

**TECHNICAL MANUAL  
PARTS  
M081 ASPHALT MIXING PLANT  
NSN 3895-01-369-2551**

**Manufactured by  
WRT Equipment Ltd.  
818 43rd Street East  
Saskatoon, Saskatchewan  
Canada S7K 3V1**

**Contract DAAE07-92-C-1191**

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**HEADQUARTERS  
DEPARTMENT OF THE ARMY**

**Parts Manual**

**ASPHALT MIXING PLANT**

**NSN 3895-01-369-2551**

**REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2, located in the back of this manual, direct to: Commander, U.S. Army Tank Automotive Command, ATTN: AMSTA-MB, Warren, Mi 48397-5000. A reply will be furnished to you.

**THIS MANUAL SET CONSISTS OF THE FOLLOWING:**

Volume 1	Operator's Manual	TM 5-3895-374-10
Volume 2	Maintenance Manual	TM 5-3895-374-24-1
Volume 3	Maintenance Manual	TM 5-3895-374-24-2
Volume 4	Parts Manual	TM 5-3895-374-24P

This manual is an Army authentication of a commercial manual. The manual is not formatted to Department of the Army specifications. This manual does contain the information needed to order parts for the AMP.

As a result of the commercial acquisition concept used for the Asphalt Mixing Plant (AMP), no National Stock Numbers (NSNs) have been developed for the parts in the AMP. All ordering of parts must be done directly through the commercial vendors. A CAGE code has been listed for each part in this manual. A cross reference listing all CAGE codes with a corresponding vendor address is included in this manual for use in ordering parts. Some parts have the word "Commercial" listed in the part number column with no CAGE code listed. These parts are not unique to a specific vendor and should be obtained from the most convenient/cost effective source possible.

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You will find pages in the vendor section of this manual with two page numbers. The page number that appears as "C-#" is the true page number that tracks with the table of contents. The other number is a page number that exists in the commercial vendor manual as it appears in commercial use. This commercial page number has been left on the page to maintain continuity with the internal page referencing of the commercial vendor sections.

Refer to TB 5-3895-374-14 for any Warranty Issues. This TB takes precedence over all vendor warranty information that may appear in this manual.

**WARNING**

Do not mix radial and bias ply tires on the same vehicle. Mixing radial and bias ply tires on the same vehicle may result in loss of steering control causing severe injury or death.

**b**

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## CHAPTER 1

## MANUFACTURERS LISTING

**1.1 GENERAL** This chapter lists details of the manufacturers of parts used in the M081 Asphalt Mixing Plant. This list is arranged in numerical order by Cage Code followed by an alphabetical listing by manufacturer name. The following is a description of the columns used in the listings.

**1.2 CAGE (COMMERCIAL AND GOVERNMENT ENTITY) CODE COLUMN** This column lists the code identifying the manufacturer.

**1.3 NAME AND ADDRESS COLUMN** This column lists the name and address of the manufacturers of parts used in the M081 Asphalt Mixing Plant.

**1.4 TELEPHONE NUMBER COLUMN** This column contains the telephone number of the manufacturer.

**1.5 FAX NUMBER COLUMN** This column contains the fax number of the manufacturer.

**1.6 SECTION Commercial COLUMN** The section number indicates the area within the commercial section of the manual the information pertaining to the manufacturers parts may be found.

## NOTE

In the event problems or questions remain with the operation or maintenance of this equipment after review of this technical data package, support is available from:

3AB03

WRT Equipment Ltd.  
818 43rd Street East  
Saskatoon, Saskatchewan  
Canada S7K 3V1  
Telephone: 1-306-244-0423  
Fax: 1-306-653-1292

Ask for assistance on US Government Products  
Support parts can be purchased from local sources or from:

WRT Equipment Ltd.

## 1.7 Manufacturer's Listing - Numerical

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section Commercial</b>
01276	Aeroquip Corporation Industrial Division 1225 West Main Street Van Wert, OH 45891-1450			
01692	Hotwatt Inc 128 Maple Street Danvers, MASS 01923	(508) 777-0070	(508) 774-2409	
02249	Gresen Manufacturing 600 Hoover Street N.E. Minneapolis, Minnesota 55413-2903	(612) 623-1960		
06721	Midland - GRAU Heavy Duty Systems 10930 N. Pomona Avenue Kansas City, MO 64153	(816) 891-2470	(816) 891-9447	
07988	United Technologies Automotive Component Division Fluid Power Systems 511 Glenn Avenue Wheeling, Illinois 60090	(312) 459-2800		
09710	Square D Canada Electrical 678-7000 Equipment Inc. 6675 Rexwood Road Mississauga, Ontario L4V 1V1	(416) 678-7000	(416) 678-9514	C8
09742	Viking Pump P.O. Box 398, 661 Grove Avenue Windsor, Ontario N9A 6M3	(519) 256-5438	(519) 256-5070	C12

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
09990	Parker Hannifin Corp 17325 Euclid Avenue Cleveland, Ohio 44112	(216) 531-3000		
09N810	Sanborn Manufacturing Co 103000 Valley View Road, Suite 101 Eden Prairie, Minn 55344	(800) 448-0512	(507) 723-4772	C17
OCGS1	Allen Bradley 1201 South Second Street Milwaukee, Wisconsin 53204	(414) 382-2000	(414) 382-4444	C13
OSMG6	Panasonic Communications Computer Products Division Two Panasonic Way Secaucus, New Jersey			C18
07094 OV4X4	Griffin Environmental Co. Inc. 7066 Intrstate Island Road Syracuse, New York 13209-9796	(315) 451-5300	(315) 451-2338	C9
0W696	Alltemp Sensors Inc. 9328 37th Avenue Edmonton, Alberta T6E 5K3	(403) 463-7035	(403) 462-0017	
0W697	Kito Canada Inc.  309 3815 1st Avenue Burnaby, BC V5C 3V6	(604) 291-9955	(604) 294-8855 C20	
0W7J7	NU Seal Inc. 8831 Shirley Avenue Northridge, CA 91324	(818) 727-1800	818) 373-7007	
0W7LO	Webster Industries, Inc. 325 Hall Street Tiffin, Ohio 44883	(419) 447-8232	(419) 448-1618	

CAGE Code	Name and Address	Telephone	Fax Number	Section
OW7L1	Gapi U.S.A., Inc. 3599 Concorde Road Vandalia, Ohio 45377	(800) 437-4274	(513) 898-2238	
OWXM9	Hayes Dana Inc. 8115 46 Street Edmonton, Alberta T6B 2M1	(403) 476-4950	(403) 469-4709	C2
OWXN2	Pyrene Fire Security Inc. 130 Esna Park Drive Markham, Ontario L3R 1 E3	(416) 940-8080	(416) 940-4760	
OWXN6	Sew-Eurodrive Company of (416) 791-1553 Canada Ltd. 210 Walker Drive Bramalea, Ontario L6T 3W1	(416) 791-2999	C16	
OWXN7	Tsubaki of Canada Ltd. 1630 Drew Road Mississauga, Ontario L5S 1J6	(416) 676-0400	(416) 676-0904	
OWXU7	CEI Enterprises A Trace Industries Inc. Co. P.O. Box 9156 Albuquerque, NM 87119	(505) 877-9107	(505) 877-8714	C7
OWXW0	Electro-Meters Co. Ltd. 900 McKay Road #2 Pickering, Ontario L1W 3X8	(416) 428-3413	(416) 428-6086	
OWXW1	Crane Supply 2630 Millar Avenue Saskatoon, SK S7K 4C8	(306) 934-8883	(306) 934-6637	
OWXW3	Systems Equipment Corp. P.O. Box 19 Waukon, Iowa 52172	(319) 568-6387	(319) 568-6224	C15

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
OYCD4	Sommerfeld Electric Ltd. 2327 1st Avenue North Saskatoon, Saskatchewan Canada S7K 2A8	(306) 933-2866	(306) 933-4348	
10380	Burndy Inc. 47 East Industrial Park Manchester New Hampshire 03108	(603) 647-5000	(603) 647-0596	
12697	Clarostat Mfg. Co. 1 Washington Street Box 1507 Dover, NH 03820	(915) 858-2632	(915) 858-8450	
17724	Bindicator Co. 1915 Dove Street P.O. Box 610009 Port Huron, Michigan 48061-0009	(313) 987-2700	(313) 987-4476	
19184	Brand Hydraulics Co. Inc. 2332 South 25th Street Omaha, Nebraska 68105	(402) 344-4434	(402) 341-5419	
10960	NTN Bearing Corp of Canada 6595 Ordan Drive Mississauga, Ontario L5T 1 K6	(416) 564-2700	(416) 678-9278	
1M212	Sun Hydraulics Corp 1500 West University Parkway Sarasota, Florida 34243	(813) 355-2983	(813) 355-4497	
2W733	Beldon Wire & Cable P.O. Box 1980 Richmond, Indiana 47375	(317) 983-5200	(317) 983-5294	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
2Y580	Dominion Automotive Ind. Corporation 19308 70th Avenue South Kent, WA 98032	(206) 872-7350 (800) 824-0254	(206) 395-3817	
2Y894	Engineered Controls International 100 Rego Drive, P.O. Box 247 Elon College North Carolina 27244	(919) 449-7707	(919) 449-6594	
30760	Ingersoll Rand 200 Chestnut Ridge Road P.O. Box 636 Woodcliff Lake, NJ 07675-7703	(800) 533-5154		C19
31093	Nordyne Inc. 1801 Park 270 Drive Saint Louis, MO 63146	(800) 422-4328	(314) 878-4386	C10
31934	Hauck Manufacturing P.O. Box 90 Lebanon, PA 1722042	(717) 272-3051	(717) 273-9882	C1
36232	Lincoln Electric Company 22801 Saint Claire Avenue Cleveland, Ohio 44117- 1199	(216) 481-8100	(216) 481-6608 (order desk)	
36655	Fairview Fittings and Manufacturing Ltd. 449 Attwell road Etobicoke, Ontario M9W 5C4	(416) 675-4233	(416) 675-9416	
38846	Spotton 3211 Lenworth Drive Mississauga, Ontario L4X 2G6	(416) 625-6400	(416) 625-2686	C21



<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section Commercial</b>
3AB03	WRT Equipment Ltd. 818 - 43rd Street East Saskatoon, SK S7K 3V1	(306) 244-0423	(306) 653-1292	
41885	Motor Wheel 148 York Street, Suite 215 London, Ontario N6A 1A9	(519) 679-2815	(519) 672-3528	
43991	Fag Bearing Corp 911 Hope Street Stamford, Conneticut 06907	(203) 327-1960	(203) 353-6982	
51729	Dresser Industries Inc. Roots Division 900 West Mount Street Connersville, Indiana 47331	(317) 827-9200	(317) 825-7669	C5
52676	SKF Incorporated 1100 1st Avenue King of Prussia, Pennsylvania 19406-1352	(215) 962-4300	(215) 265-1457	
58235	Pyrotenax 6507 Basile Rowe, Box 160 East Syracuse New York 13057	(315) 433-1166		
58865	Metalux Lighting P.O. Box 1207 Americus, Georgia 31709	(912) 924-8000	(912) 924-5507	
59254	G&G Manufacturing Co. 4432 McKinley Omaha, Nebraska 68112	(402) 453-9595	(402) 453-1740	
59730	Thomas & Betts/American Electric 1555 Lynnfield Road Memphis, Tennessee 38119	(901) 682-7766	(800) 888-0790	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section Commercial</b>
61964	Omron Electronics, Inc. 1 E. Commerce Drive Schaumburg, IL 60173	(708) 843-7900	(708) 843-0427	
62983	Vickers Inc. 5353 Highland Drive Jackson, Mississippi 39206	(601) 987-3375	(601) 987-3371	
63279	Weidmuller Ltd. 821 Southlake Blvd. Richmond, VA 23236	(804) 794-2877	(804) 794-0252	
6K048	Macrotech/Polyseal P.O. Box 26627 Salt Lake City, Utah 84126	(800) 453-8742	(801) 973-9188	
71424	Gould Inc. 374 Merrimac Street Newburyport, MA 01950	(508) 462-6662	(508) 462-0181	
71956	Reliance Electric Corp Headquarters P.O. Box 248020 Cleveland, Ohio 44124- 6106	(216) 266-5800	(216) 266-5885	C6
72805	Hammond Man. 1690 Walden Avenue Buffalo, New York 14225	(716) 894-5710	(716) 894-1156	
59838	LHA Products Ltd 21590 Alexander Road Oakwood Village, Ohio 44146	(216) 439-7671	(216) 439-1230	
73138	Beckman Industrial Corp. 4200 Bonita Place Fullerton, Cal. 92635	(714) 447-2300	(714) 447-2315	
73842	Goodyear Canada Inc. 10 Four Seasons Place Etobicoke, Ontario M9B 6G2	(416) 626-4611	(416) 620-8300	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section Commercial</b>
74410	Holland Hitch Company P.O. Box 2099, 1167 Ottawa Avenue Holland, Michigan 49422	(616) 396-6501	(616) 396-1011	
74545	Hubbell Incorporated 1613 State Street Bridgeport, Connecticut 06605-0933	(203) 337-3100	(203) 368-6245	
77820	Amphenol Corp. 358 Hall Avenue Wallingford, Connecticut 06492-7530	(203) 265-8900	(203) 265-8516	
7P200	Chautauqua County NYS.ARC 880 East 2nd Street James Town, New York 14701	(716) 483-2344	(716) 661-1414	
82879	Royal 95 Grand Avenue Pawtucket, Rhode Island	(401) 722-8600	(401) 724-5220	
89257	Hammerblow Corp. P.O. Box 419 Wausou, Wisconsin 54402-0419	(715) 842-0561	(715) 842-5706	
8D709	T.B. Wood's Sons Co. 440 North Fifth Avenue Chambersburg, PA 17201	(717) 267-2900	(717)264-6420	
95119	H.Paulin Co. Ltd. 55 Milne Avenue Scarborough, Ontario M1L 4N3	(416) 694-3351	(416) 694-1869	
97999	Mac Valves Inc. P.O. Drawer 111-J 30569 Beck Road Wixom, Michigan	(313) 624-7700	(313) 624-0549	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
98386	Enardo Manufacturing Co P.O. Box 266 Tulsa, Oklahoma 74101-0266	918) 835-6974	(918) 835-0044	
98963	Wilkerson Corporation P.O. Box 1237 Englewood, Colorado 80150	(303) 761-7601	(303) 781-8462	
99062	Reyco Industries Inc. P.O. Box 2268, 600 N. Prospect Ave Springfield, Missouri 65801-2268	(417) 862-4343	(417) 862-0343	
9G527	Eaton Corporation Hydraulics Division 15151 Highway 5 Eden Prairie, Minnesota 55233	(612) 937-9800	(612) 937-7130	
IL965	Lord Corporation Industrial (800) 458-0456 Products Division P.O. Box 10400 1952 Grandview Blvd West Eerie, PA 16514-0040	(814) 868-3109		
OKWO	Critchley Inc. 255 East 400 South, Suite 106 Salt Lake City, Utah 84111	(801) 355-3933	(801) 328-1243	
ON942	Yorkville Electric Systems Co. 205 Beaver Street Yorkville, IL 60560	(708) 553-0351	(708) 553-6581	
OTW02	Universal Silencer P.O. Box 411 Stoughton, Wisconsin 53589	(608) 873-4272	(608) 873-4298	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
SA910	Aurora Cord & Cable Company 325 South Union Street Aurora, Illinois 60505	(708) 851-1616	(708) 851-1626	
OYFX6	Mega Industries Inc. 3075 Ridgeway Drive Unit 19 Mississauga, Ontario Canada L5L 5M6	(416) 828-6342		
38400	Western Scale Co. Ltd. 1670 Kingsway Avenue Port Coquitlam British Columbia Canada V3C 3Y9	(604) 941-3474		C4

**1.8 Manufacturer's Listing - Alphabetical**

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
01276	Aeroquip Corporation Industrial Division 1225 West Main Street Van Wert, OH 45891-1450			
OCGS1	Allen Bradley 1201 South Second Street Milwaukee, Wisconsin 53204	(414) 382-2000	(414) 382-4444	C13
0W696	Alltemp Sensors Inc. 9328 37th Avenue Edmonton, Alberta T6E 5K3	(403) 463-7035	(403) 462-0017	
77820	Amphenol Corp. 358 Hall Avenue Wallingford, Connecticut 06492-7530	(203) 265-8900	(203) 265-8516	
SA910	Aurora Cord & Cable Company 325 South Union Street Aurora, Illinois 60505	(708) 851-1616	(708) 851-1626	
73138	Beckman Industrial Corp. 4200 Bonita Place Fullerton, Cal. 92635	(714) 447-2300	(714) 447-2315	
2W733	Beldon Wire & Cable P.O. Box 1980 Richmond, Indiana 47375	(317) 983-5200	(317) 983-5294	
17724	Bindicator Co. 1915 Dove Street P.O. Box 610009 Port Huron, Michigan 48061-0009	(313) 987-2700	(313) 987-4476	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
19184	Brand Hydraulics Co. Inc. 2332 South 25th Street Omaha, Nebraska 68105	(402) 344-4434	(402) 341-5419	
10380	Burndy Inc. 47 East Industrial Park Manchester New Hampshire 03108	(603) 647-5000	(603) 647-0596	
OWXU7	CEI Enterprises A Trace Industries Inc. Co. P.O. Box 9156 Albuquerque, NM 87119	(505) 877-9107	(505) 877-8714	C7
7P200	Chautauqua County NYS.ARC 880 East 2nd Street James Town, New York 14701	(716) 483-2344	(716) 661-1414	
12697	Clarostat Mfg. Co. 1 Washington Street Box 1507 Dover, NH 03820	(915) 858-2632	(915) 858-8450	
OWXW1	Crane Supply 2630 Millar Avenue Saskatoon, SK S7K 4C8	(306) 934-8883	(306) 934-6637	
OKWO O	Critchley Inc. 255 East 400 South, Suite 106 Salt Lake City, Utah 84111	(801) 355-3933	(801) 328-1243	
2Y580	Dominion Automotive Ind. Corporation 19308 70th Avenue South Kent, WA 98032	(206) 872-7350 (800) 824-0254	(206) 395-3817	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
51729	Dresser Industries Inc. Roots Division 900 West Mount Street Connersville, Indiana 47331	(317) 827-9200	(317) 825-7669	C5
90G527	Eaton Corporation Hydraulics Division 15151 Highway 5 Eden Prairie, Minnesota 55233	(612) 937-9800	(612) 937-7130	
0WXW0	Electro-Meters Co. Ltd. 900 McKay Road #2 Pickering, Ontario L1W 3X8	(416) 428-3413	(416) 428-6086	
98386	Enardo Manufacturing Co P.O. Box 266 Tulsa, Oklahoma 74101-0266	(918)835-6974	(918) 835-0044	
2Y894	Engineered Controls International 100 Rego Drive, P.O. Box 247 Elon College North Carolina 27244	(919) 449-7707	(919) 449-6594	
43991	Fag Bearing Corp 911 Hope Street Stamford, Conneticut 06907	(203) 327-1960	(203) 353-6982	
36655	Fairview Fittings and Manufacturing Ltd. 449 Attwell road Etobicoke, Ontario M9W 5C4	(416) 675-4233	(416) 675-9416	
59254	G&G Manufacturing Co. 4432 McKinley Omaha, Nebraska 68112	(402) 453-9595	(402) 453-1740	



<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
OW7L1	Gapi U.S.A., Inc. 3599 Concorde Road Vandalia, Ohio 45377	(800) 437-4274	(513) 898-2238	
73842	Goodyear Canada Inc. 10 Four Seasons Place Etobicoke, Ontario M9B 6G2	(416) 626-4611	(416) 620-8300	
71424	Gould Inc. 374 Merrimac Street Newburyport, MA 01950	(508) 462-6662	(508) 462-0181	
02249	Gresen Manufacturing 600 Hoover Street N.E. Minneapolis, Minnesota 55413-2903	(612) 623-1960		
0V4X4	Griffin Environmental Co. Inc. 7066 Intrstate Island Road Syracuse, New York 13209-9796	(315) 451-5300	(315) 451-2338	C9
95119	H.Paulin Co. Ltd. 55 Milne Avenue Scarborough, Ontario M1L 4N3	(416) 694-3351	(416) 694-1869	
89257	Hammerblow Corp. P.O. Box 419 Wausou, Wisconsin 54402-0419	(715) 842-0561	(715) 842-5706	
72805	Hammond Man. 1690 Walden Avenue Buffalo, New York 14225	(716) 894-5710	(716) 894-1156	
31934	Hauck Manufacturing P.O. Box 90 Lebanon, PA 1722042	(717) 272-3051	(717) 273-9882	C1

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
OWXM9	Hayes Dana Inc. 8115 46 Street Edmonton, Alberta T6B 2M1	(403) 476-4950	(403) 469-4709	C2
74410	Holland Hitch Company P.O. Box 2099, 1167 Ottawa Avenue Holland, Michigan 49422	(616) 396-6501	(616) 396-1011	
01692	Hotwatt Inc. 128 Maple Street Danvers, MASS 01923	(508) 777-0070	(508) 774-2409	
74545	Hubbell Incorporated 1613 State Street Bridgeport, Connecticut 06605-0933	(203) 337-3100	(203) 368-6245	
30760	Ingersoll Rand 200 Chestnut Ridge Road P.O. Box 636 Woodcliff Lake, NJ 07675-7703	(800) 533-5154	C19	
0W697	Kito Canada Inc. 309 3815 1st Avenue Burnaby, BC V5C 3V6	(604) 291-9955	(604) 294-8855	C20
36232	Lincoln Electric Company 22801 Saint Claire Avenue Cleveland, Ohio 44117- 1199	(216) 481-8100 (order desk)	(216) 481-6608	
59838	LHA Products Ltd. 21590 Alexander Road Oakwood Village, Ohio 44146	(216) 439-7671	(216) 439-1230	
1L965	Lord Corporation Industrial Products Division P.O. Box 10400 1952 Grandview Blvd West Eerie, PA 16514-0040	(800) 458-0456	(814) 868-3109	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section Commercial</b>
97999	Mac Valves Inc. P.O. Drawer 111-J 30569 Beck Road Wixom, Michigan	(313) 624-7700	(313) 624-0549	
6K048	Macrotech/Polyseal P.O. Box 26627 Salt Lake City, Utah 84126	(800) 453-8742	(801) 973-9188	
OYFX6	Mega Industries Inc. 3075 Ridgeway Drive Unit 19 Mississauga, Ontario Canada L5L 5M6	(416) 828-6342		
58865	Metalux Lighting P.O. Box 1207 Americus, Georgia 31709	(912) 924-8000	(912) 924-5507	
06721	Midland - GRAU Heavy Duty Systems 10930 N. Pomona Avenue Kansas City, MO 64153	(816) 891-2470	(816) 891-9447	
41885	Motor Wheel 148 York Street, Suite 215 London, Ontario N6A 1A9	(519) 679-2815	(519) 672-3528	
31093	Nordyne Inc. 1801 Park 270 Drive Saint Louis, MO 63146	(800) 422-4328	(314) 878-4386	C10
1C960	NTN Bearing Corp of Canada 6595 Ordan Drive Mississauga, Ontario L5T 1 K6	(416) 564-2700	(416) 678-9278	
OW7J7	NU Seal Inc. 8831 Shirley Avenue Northridge, CA 91324	(818) 727-1800	(818) 373-7007	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
61964	Omron Electronics, Inc. 1 E. Commerce Drive Schaumburg, IL 60173	(708) 843-7900	(708) 843-0427	
OSMG6	Panasonic Communications Computer Products Division Two Panasonic Way Secaucus, New Jersey 07094	C18		
09990	Parker Hannifin Corp. 17325 Euclid Avenue Cleveland, Ohio 44112	(216) 531-3000	(216)	
OWXN2	Pyrene Fire Security Inc. 130 Esna Park Drive Markham, Ontario L3R 1E3	(416) 940-8080	(416) 940-4760	
58235	Pyrotenax 6507 Basile Rowe, Box 160 East Syracuse New York 13057	(315) 433-1166		
71956	Reliance Electric Corp Headquarters P.O. Box 248020 Cleveland, Ohio 44124- 6106	(216) 266-5800	(216) 266-5885	C6
99062	Reyco Industries Inc. P.O. Box 2268, 600 N. Prospect Ave Springfield, Missouri 65801-2268	(417) 862-4343	(417) 862-0343	C3
82879	Royal 95 Grand Avenue Pawtucket, Rhode Island	(401) 722-8600	(401) 724-5220	
09N810	Sanborn Manufacturing Co. (800) 448-0512 103000 Valley View Road, Suite 101 Eden Prairie, Minn 55344	(507) 723-4772	C17	

<b>CAGE Code</b>	<b>Name and Address</b>	<b>Telephone</b>	<b>Fax Number</b>	<b>Section</b>
OWXN6	Sew-Eurodrive Company of Canada Ltd. 210 Walker Drive Bramalea, Ontario L6T 3W1	(416) 791-1553	(416) 791-2999	C16
52676	SKF Incorporated 1100 1st Avenue King of Prussia, Pennsylvania 19406-1352	(215) 962-4300	(215) 265-1457	
OYCD4	Sommerfeld Electric Ltd. 2327 1st Avenue North Saskatoon, Saskatchewan Canada S7K 2A8	(306) 933-2866	(306) 933-4348	
38846	Spotton 3211 Lenworth Drive Mississauga, Ontario L4X 2G6	(416) 625-6400	(416) 625-2686	C21
09710	Square D Canada Electrical Equipment Inc. 6675 Rexwood Road Mississauga, Ontario L4V 1V1	(416) 678-9514	C8	
1M212	Sun Hydraulics Corp. 1500 West University Parkway Sarasota, Florida 34243	(813) 355-2983	(813) 355-4497	
OWXW3	Systems Equipment Corp. 568-6387 P.O. Box 19 Waukon, Iowa 52172	(319) (319) 568-6224	C15	
8D709	T.B. Wood's Sons Co. 440 North Fifth Avenue Chambersburg, PA 17201	(717) 267-2900	(717) 264-6420	

CAGE Code	Name and Address	Telephone	Fax Number	Section Commercial
59730	Thomas & Betts/American Electric 1555 Lynnfield Road Memphis, Tennessee 38119	(901) 682-7766	(800) 888-0790	
OWXN7	Tsubaki of Canada Ltd. 1630 Drew Road Mississauga, Ontario L5S 1J6	(416) 676-0400	(416) 676-0904	
07988	United Technologies Automotive Component Division Fluid Power Systems 511 Glenn Avenue Wheeling, Illinois 60090	(312) 459-2800		
OTW02	Universal Silencer P.O. Box 411 Stoughton, Wisconsin 53589	(608) 873-4272	(608) 873-4298	
62983	Vickers Inc. 5353 Highland Drive Jackson, Mississippi 39206	(601) 987-3375	(601) 987-3371	
09742	Viking Pump P.O. Box 398, 661 Grove Avenue Windsor, Ontario N9A 6M3	(519) 256-5438	(519) 256-5070	C12
OW7LO	Webster Industries, Inc. 325 Hall Street Tiffin, Ohio 44883	(419) 447-8232	(419) 448-1618	
63279	Weidmuller Ltd. 821 Southlake Blvd. Richmond, VA 23236	(804) 794-2877	(804) 794-0252	

CAGE Code	Name and Address	Telephone	Fax Number	Section Commercial
38400	Western Scale Co. Ltd. 1670 Kingsway Avenue Port Coquitlam British Columbia Canada V3C 3Y9		(604) 941-3474	C4
98963	Wilkerson Corporation P.O. Box 1237 Englewood, Colorado 80150	(303) 761-7601	(303) 781-8462	
3AB03	WRT Equipment Ltd. 818 - 43rd Street East Saskatoon, SK S7K 3V1	(306) 244-0423	(306) 653-1292	
ON942	Yorkville Electric Systems Co. 205 Beaver Street Yorkville, IL 60560	(708) 553-0351	(708) 553-6581	

## CHAPTER 2

## ILLUSTRATED PARTS BREAKDOWN

**2.1 GENERAL** This chapter lists and illustrates spare and repair parts for the M081 Asphalt Mixing Plant. The breakdown separates the plant components into assemblies and subassemblies and are keyed to associated illustrations by figure and index numbers. The following is a description of the columns used in the listings.

**2.2 FIGURE AND INDEX NUMBER COLUMN** This column contains the assigned figure number of the illustration in which the assembly or part is shown and the index number called out in the illustration.

**2.3 LEVEL COLUMN** This column identifies the parts structure within the specific figure. The assembly has a level of "0" with all subassemblies and components having a level of "1." Each figure begins with a level "0".

**2.4 PART NUMBER COLUMN** This column contains the identifying number for all items that are listed. Items with a part number "Commercial" are considered items easily obtained from a well stocked supply house.

**2.5 CAGE (COMMERCIAL AND GOVERNMENT ENTITY) CODE COLUMN** This column lists the code identifying the manufacturer of the part listed. A list of CAGE codes used in this manual and the corresponding name and address of manufacturers is included in Chapter 1. Items with a cage code of "COMM." are considered commercial items. These items may be procured from any well stocked supply house.

**2.6 DESCRIPTION COLUMN** This column contains the approved nomenclature for all assemblies, subassemblies, components and parts.

**2.7 BREAKDOWN FIGURE COLUMN** This column identifies a figure number which identifies the component parts of the identified assembly. When the number appearing in this column is preceded by the letter "C" the breakdown appears in the Commercial portion of the manual. Items without a breakdown figure are considered commercially nonrepairable.

**2.8 UNITS PER ASSEMBLY COLUMN** The quantities listed in this column are the quantities required at each location and are not necessarily the total quantities of each item used in the Asphalt Mixing Plant.



**FIGURE 1  
ASPHALT MIXING PLANT**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-42	3AB03	Asphalt Mixing Plant	Fig 1	1
1-1	1	51-450-09	3AB03	Control Van	Fig 2	1
1-2	1	52-450-06	3AB03	Surge Bin	Fig 3	1
1-3	1	51-450-07	3AB03	Baghouse	Fig 4	1
1-4	1	51-450-06	3AB03	Dedrummer/Melter	Fig 5	1
1-5	1	51-450-13	3AB03	Asphalt Tanker	Fig 6	1
1-6	1	51-450-11	3AB03	Feed Conveyor	Fig 7	1
1-7	1	51-450-10	3AB03	Four Bin Feeder	Fig 8	1
1-8	1	51-450-12	3AB03	Drum Mixer	Fig 9	1
1-9	1	23-450-58	3AB03	Tow Dolly	Fig 38	1
1-10	1	51-450-39	3AB03	Generator Trailer	Fig 69	1

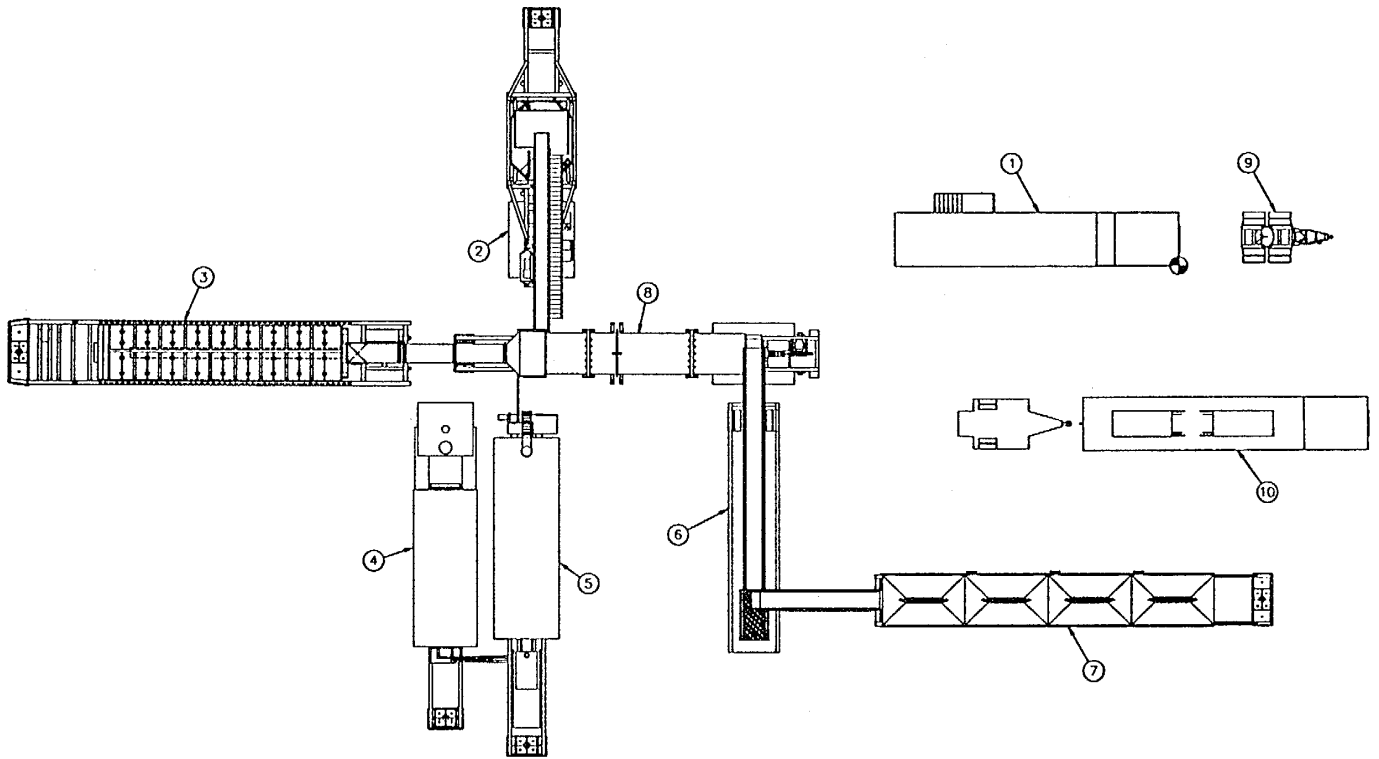


Figure 1 -Asphalt Mixing Plant  
page 1-2

**FIGURE 2  
CONTROL VAN**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-09		CONTROL VAN	Fig 2	1
2-1	1	61-400-06	3ABO3	CHASSIS ASSEMBLY		1
2-2	1	61-450-15	3ABO3	SUSPENSION ASSEMBLY	Fig 122	1
2-3	1	61-450-16	3AB03	LANDING JACK	Fig 108	1
2-4	1	61-450-17	3AB03	SCREWJACK	Fig 109	4
2-6	1	C2 10-977-31	13ABO3	MUD FLAP		2
2-7	1	C2 X-289-110	3AB03	MUD FLAP BACKUP BAR		2
2-9	1	10-450-46	3ABO3	AIR BRAKE SYSTEM	Fig 94	1
2-11	1	61-450-11	3ABO3	ELECTRICAL WIRING 12V AND 24V	Fig 102	1
2-12	1	51-450-79	3ABO3	FIRE EXTINGUISHER	Fig 21	1
2-13	1	51-451-30	3ABO3	5TH WHEEL ADAPTER	Fig 131	1
2-15	1	C2 135-802-002-0-000	73842	RADIAL TIRE 11 R22.5		1
2-16	1	C2 46213B	41885	WHEEL 8.25 X 22.5		1
2-17	1	61-450-21	3ABO3	ELECTRICAL CONTROLS	Fig 189	1
2-18	1	51-450-32	3ABO3	HYDRAULIC POWER PACK	Fig 58	1
2-19	1	61-400-41	3ABO3	STAIRS		1
2-21	1	61-400-15	3ABO3	TELESCOPING SLING FRAME		4
2-22	1	51-402-17	3ABO3	PIN		4
2-CO	1	COMMERCIAL		CLIP PIN 1/4"		4
2-A5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW		8

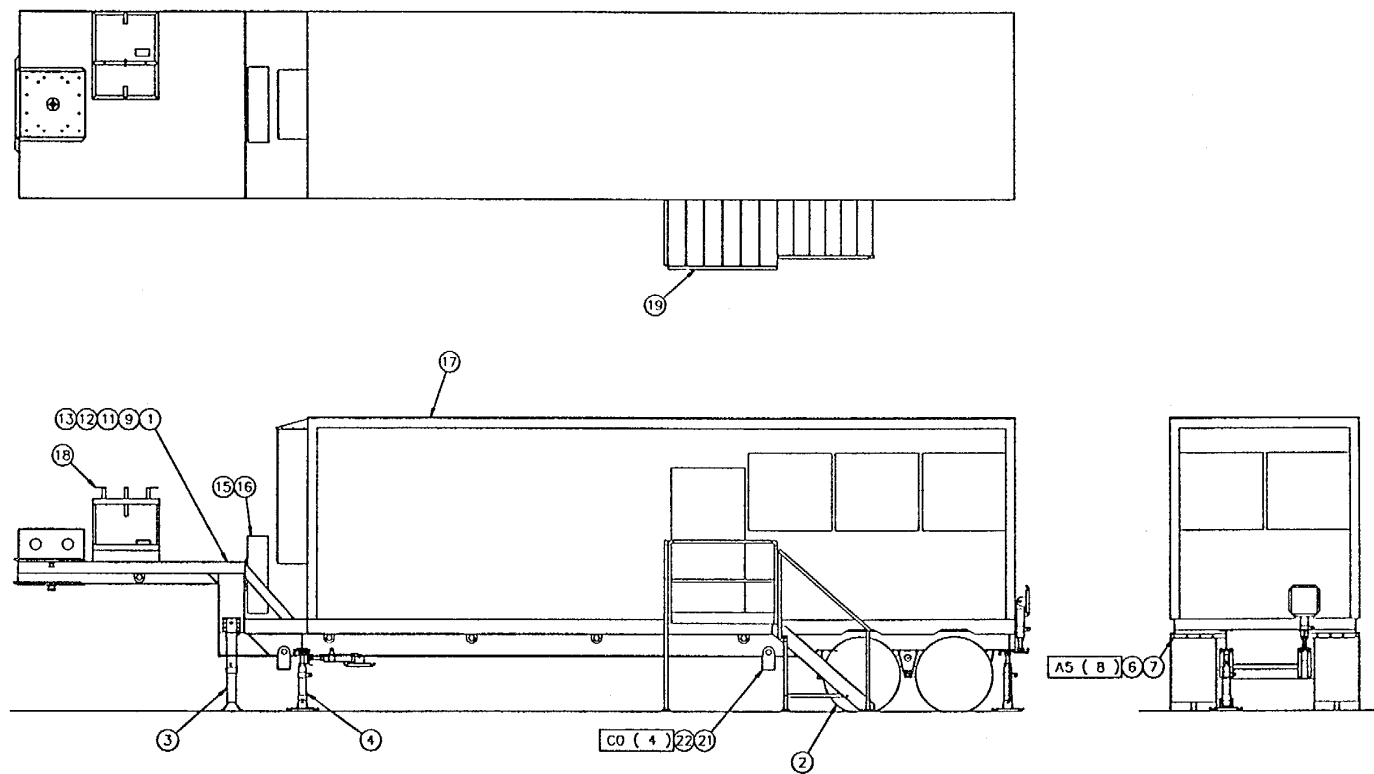


Figure 2-Control Van

**FIGURE 3  
SURGE BIN**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-06		SURGE BIN	Fig 3	1
3-1	1	52-450-19	3ABO3	LANDING JACK	Fig 194	1
3-2	1	52-450-20	3ABO3	LEVELLING JACK	Fig 157	1
3-3	1	52-450-08	3ABO3	SLAT CONVEYOR BOLTED ASSEMBLY	Fig 145	1
3-4	1	52-450-16	3ABO3	LIFTING BASE ASSEMBLY	Fig 105	2
3-5	1	52-450-17	3ABO3	SUSPENSION ASSEMBLY	Fig 104	1
3-6	1	52-450-18	3ABO3	HOPPER CLAM SHELL GATE ASSEMBLY	Fig 106	1
3-7	1	52-400-41	3ABO3	HOPPER FRAME/HOPPER ASSY		1
3-8	1	52-450-22	3ABO3	CONVEYOR LIFT ASSEMBLY	Fig 63	1
3-9	1	52-450-23	3ABO3	HOPPER DOOR	Fig 118	1
3-10	1	52-400-54	3AB03	SURGE BIN CHASSIS		1
3-11	1	52-400-43	3ABO3	CONVEYOR SUPPORT FRAME		1
3-12	1	52-400-44	3ABO3	CONVEYOR SUPPORT FRAME		1
3-13	1	52-450-47	3ABO3	SCREWJACK	Fig 64	1
3-14	1	52-450-24	3ABO3	HOPPER LIFT ASSEMBLY	Fig 117	1
3-15	1	52-400-61	3ABO3	LOCKING PIN		2
3-16	1	52-202-02	3AB003	PIVOT PIN		1
3-17	1	52-202-03	3ABO3	SUPPORT FRAME PIN		2
3-18	1	52-400-67	3ABO3	PIN	4	
3-20	1	10-450-59	3ABO3	AIR BRAKE SYSTEM	Fig 96	1
3-22	1	61-450-43	3ABO3	ELECTRICAL WIRING 12V AND 24V	Fig 111	1
3-23	1	51-450-79	3ABO3	FIRE EXTINGUISHER	Fig 21	1
3-24	1	51-451-30	3ABO3	5TH WHEEL ADAPTER	Fig 131	1
3-26	1	C2 10-977-31	3ABO3	MUD FLAP		2
3-27	1	C2 X-289-110	3ABO3	MUD FLAP BACKUP BAR		2
3-29	1	52-450-26	3ABO3	SURGE BIN HYDRAULICS	Fig 200	1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
3-30	1	52-450-27	3AB03	COMPRESSOR	Fig 201	1
3-31	1	52-450-29	3AB03	DISCHARGE CHUTE	Fig 199	1
3-34	1	52-450-30	3AB03	PLATFORM AND LADDERS	Fig 202	1
3-35	1	52-400-89	3AB03	HOPPER LADDER		1
3-36	1	52-400-76	3AB03	LADDER EXTENSION		
3-37	1	52-450-34	3AB03	BIN LEVEL INDICATOR ASSEMBLY	Fig 142	1
3-38	1	51-452-65	3AB03	3/4" PNEUMATIC HOSE ASSEMBLY		1
3-39	1	52-450-40	3AB03	BIN AND GATE HEATING	Fig 70	1
3-42	1	52-450-43	3AB03	LEVELLING JACK PIPING	Fig 158	1
3-43	1	C2 135-802-002-0-000	73842	RADIAL TIRE 11R22.5		1
3-44	1	C2 46213B	41885	WHEEL 8.25 X 22.5		1
3-A0	1	COMMERCIAL		COTTER PIN 1/4" X 4" LG SPAENAUER #CP-139H		2
3-B0	1	COMMERCIAL		HITCH PIN		2
3-Co	1	COMMERCIAL		COTTER PIN 1/4" X 2" LG		2
3-DO	1	COMMERCIAL		SNAP LOCK HITCH PIN SPAENAUER		4
				#233-257		

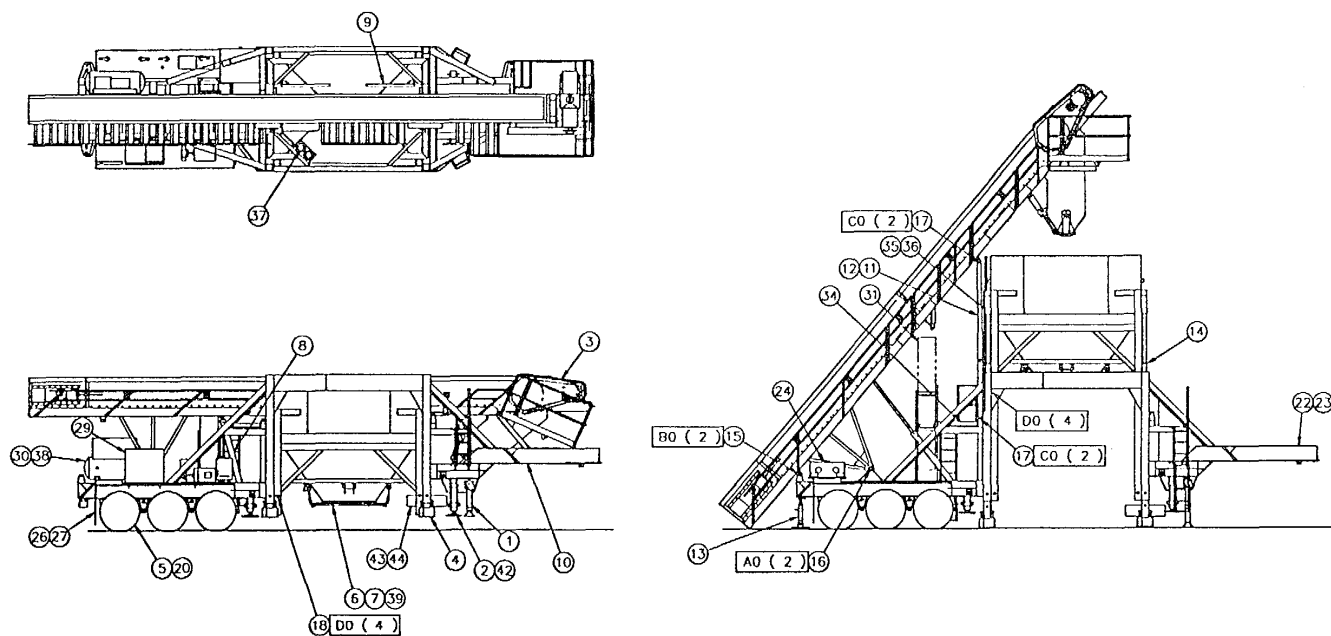


Figure 3-Surge Bin

**FIGURE 4  
BAGHOUSE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-07	BAGHOUSE		Fig 4	
4-1	1	51-401-01	3AB03	BAGHOUSE CHASSIS		1
4-2	1	51-451-06	3AB03	FINES BLOWER	Fig 62	1
4-3	1	51-451-07	3AB03	EXHAUST FAN DRIVE ASSEMBLY	Fig 65	1
4-4	1	51-450-99	3AB03	SUSPENSION ASSEMBLY	Fig 87	1
4-5	1	51-451-10	3AB03	SCREW JACK ASSEMBLY	Fig 71	1
4-6	1	51-451-03	3AB03	LEVELLING JACK	Fig 90	2
4-7	1	51-451-73	3AB03	EXHAUST EXTENSION	Fig 161	1
4-8	1	10-450-46	3AB03	AIR BRAKE	Fig 94	1
4-9	1	51-452-53	3AB03	FINES RETURN HOSE ASSEMBLY	Fig 124	1
4-10	1	61-450-11	3AB03	ELECTRICAL WIRING 12V AND 24V	Fig 102	1
4-11	1	51-450-79	3AB03	FIRE EXTINGUISHER	Fig 21	1
4-12	1	51-451-30	3AB03	5TH WHEEL ADAPTER	Fig 131	1
4-13	1	51-451-01	3AB03	LANDING JACK	Fig 88	1
4-15	1	51-451-09	3AB03	PNEUMATIC SYSTEM	Fig 134	1
4-16	1	51-451-25	3AB03	FINES TRANSITION/PIPE	Fig 60	1
4-17	1	51-451-36	3AB03	PLATFORM AND LADDER	Fig 135	1
4-18	1	C2 10-977-31	3AB03	MUD FLAP		2
4-19	1	C2 X-289-110	3AB03	MUD FLAP BACKUP BAR		2
4-20	1	C2 51-203-02	3AB03	BRACING		4
4-21	1	MP 51-203-03	3AB03	BRACING		4
4-22	1	51-451-31	3AB03	EXHAUST LOUVRE	Fig 121	1
4-23	1	51-451-37	3AB03	EXHAUST INLET ASSEMBLY	Fig 143	1
4-24	1	51-452-14	3AB03	LEVELLING JACK PIPING	Fig 59	1
4-25	1	PJA-565-H	0V4X4	GRIFFIN BAGHOUSE	Fig C9	1
4-27	1	C2	73842	RADIAL TIRE 11R22.5		1
		135-802-002-0-000				
4-28	1	C2 46213B	41885	WHEEL 8.25 X 22.5		1



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
4-A5	1	COMMERCIAL		BOLT 1/2"X 2" LG, NUT, LW		8
4-B5	1	COMMERCIAL		BOLT 1/2"X 1 1/2" LG, NUT, LW		16

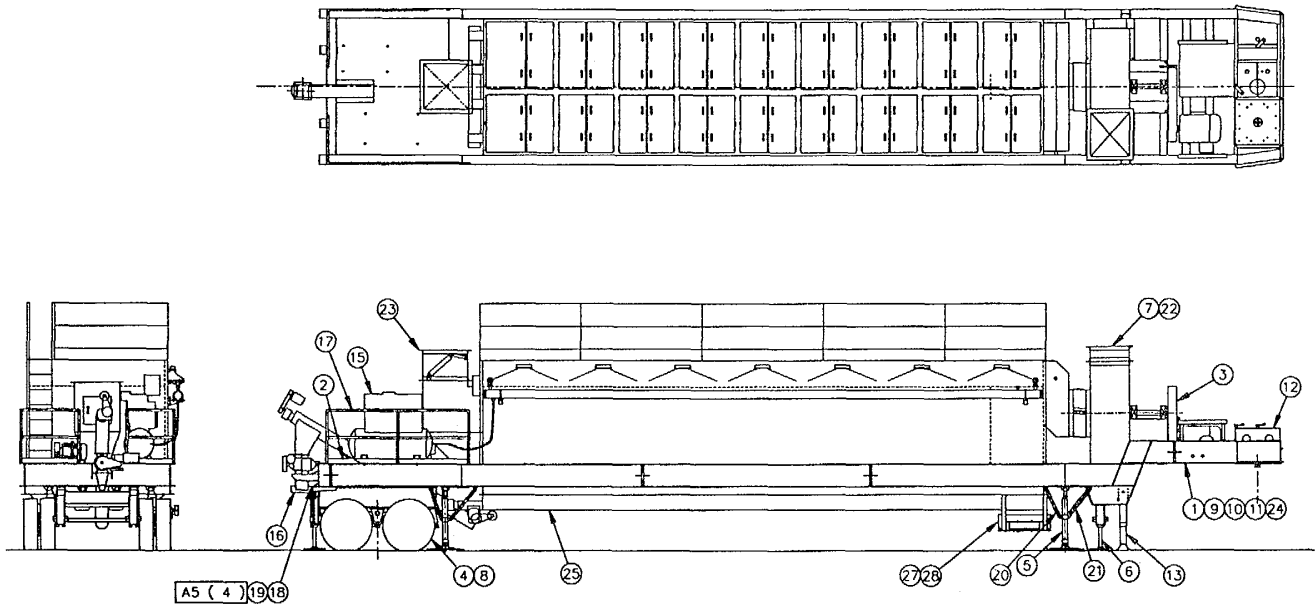


Figure 4-Baghouse

**FIGURE 5  
DEDRUMMER/MELTER**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-06		DEDRUMMER/MELTER	Fig 5	1
5-1	1	51-451-39	3ABO3	DEDRUMMER/MELTER ASSEMBLY		1
5-2	1	51-451-24	3ABO3	FUEL TANK	Fig 179	1
5-3	1	51-452-61	3ABO3	DEDRUMMER/MELTER PIPING	Fig 139	1
5-4	1	51-452-54	3AB03	SPREADER BAR STORAGE	Fig 37	1
5-9	1	10-450-46	3ABO3	AIR BRAKES	Fig 94	1
5-11	1	161-450-11	3AB03	ELECTRICAL WIRING 12V AND 24V	Fig 102	1
5-12	1	51-450-79	3A803	FIRE EXTINGUISHER	Fig 21	1
5-13	1	51-451-30	3ABO3	5TH WHEEL ADAPTER	Fig 131	1
5-14	1	51-451-27	3ABO3	LANDING JACK	Fig 141	1
5-16	1	51-451-28	3ABO3	SCREW JACK	Fig 98	1
5-17	1	51-451-44	3ABO3	HOIST	Fig 183	1
5-18	1	51-451-64	3ABO3	DRUM FEED HYDRAULIC SYSTEM	Fig 188	1
5-19	1	51-451-23	3AB03	SUSPENSION	Fig 132	1
5-23	1	51-402-03	3AB03	DRUM FEEDER		1
5-24	1	MP 51-402-18	3AB03	CYLINDER PIN		1
5-25	1	MP 51-202-04	3AB03	CYLINDER PIN		1
5-28	1	C2 10-977-31	3ABO03	MUD FLAP		2
5-29	1	MP X-289-110	3ABO3	MUD FLAP BACKUP BAR		2
5-30	1	C2	73842	RADIAL TIRE 11R22.5		1
		135-802-002-0-000				
5-31	1	C2 46213B	41885	WHEEL 8.25 X 22.5		1
5-32	1	51-452-85	3ABO3	LEVELLING JACK	Fig 29	1
5-33	1	51-452-93	3ABO03	LEVELLING JACK PIPING	Fig 164	1
5-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		8

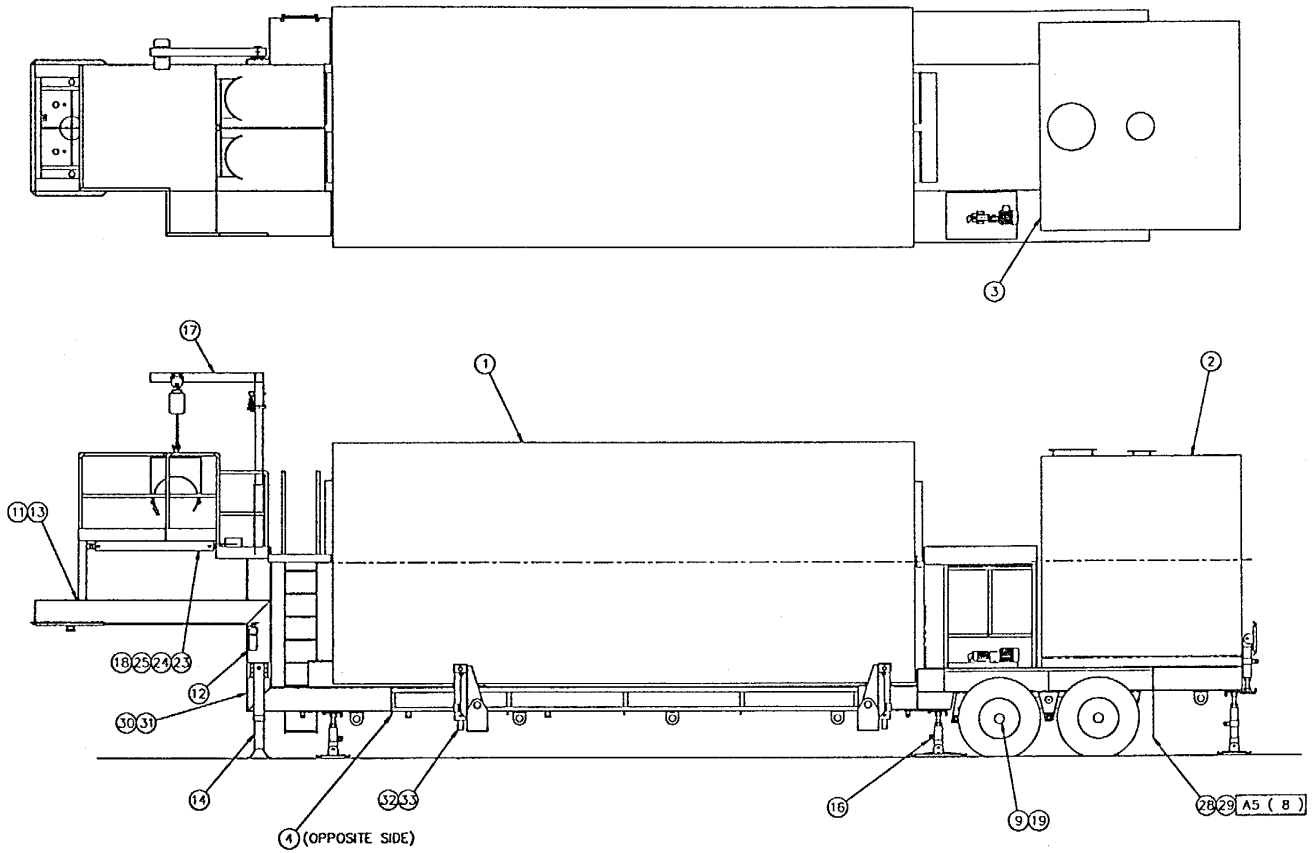


Figure 5 - Dedrummer/Melter

**FIGURE 6  
ASPHALT TANKER**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-13		ASPHALT TANKER	Fig 6	1
6-1	1	51-451-49	3AB03	HOT OIL HEATER	Fig 193	1
6-2	1	51-451-50	3AB03	ASPHALT TANK ASSEMBLY		1
6-4	1	51-451-51	3AB03	HOT OIL PIPING ASSEMBLY	Fig 156	1
6-5	1	51-451-52	3AB03	ASPHALT PIPING ASSEMBLY	Fig 167	1
6-6	1	51-451-54	3AB03	HOT OIL HEATER FUEL PIPING	Fig 195	1
6-7	1	51-452-41	3AB03	OIL JACKETING LINES, ASPHALT PIPE TO DRUM MIXER	Fig 181	1
6-8	1	10-450-46	3AB03	AIR BRAKE SYSTEM	Fig 94	1
6-10	1	61-450-11	3AB003	ELECTRICAL WIRING 12V AND 24V	Fig 102	1
6-11	1	51-450-79	3AB03	FIRE EXTINGUISHER	Fig 21	1
6-12	1	51-451-30	3AB03	5TH WHEEL ADAPTER	Fig 131	1
6-13	1	51-451-15	3AB03	LANDING JACK	Fig 130	1
6-15	1	51-451-21	3AB03	SCREWJACK	Fig 133	1
6-16	1	51-451-13	3AB03	SUSPENSION ASSEMBLY	Fig 165	1
6-19	1	51-452-37	3AB03	PIPING GUARD - RIGHT SIDE		1
6-20	1	51-452-38	3AB003	PIPING GUARD - LEFT SIDE		1
	1	C2	74410	RADIAL TIRE 11R22.5		1
		135-802-002-0-000				
	1	C2 46213B	41885	BUDD WHEEL 8.25 X 22.5		1
6-21	1	C2 10-977-31	3AB03	MUD FLAP		2
6-22	1	C2 X-289-110	3AB03	MUD FLAP BACKUP BAR		2
6-23	1	51-452-86	3AB03	LEVELLING JACK	Fig 22	1
6-24	1	51-452-92	3AB03	LEVELLING JACK PIPING	Fig 178	1
6-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW	8	
6-B3	1	COMMERCIAL		BOLT 3/8" X 3/4" LG, LW	8	

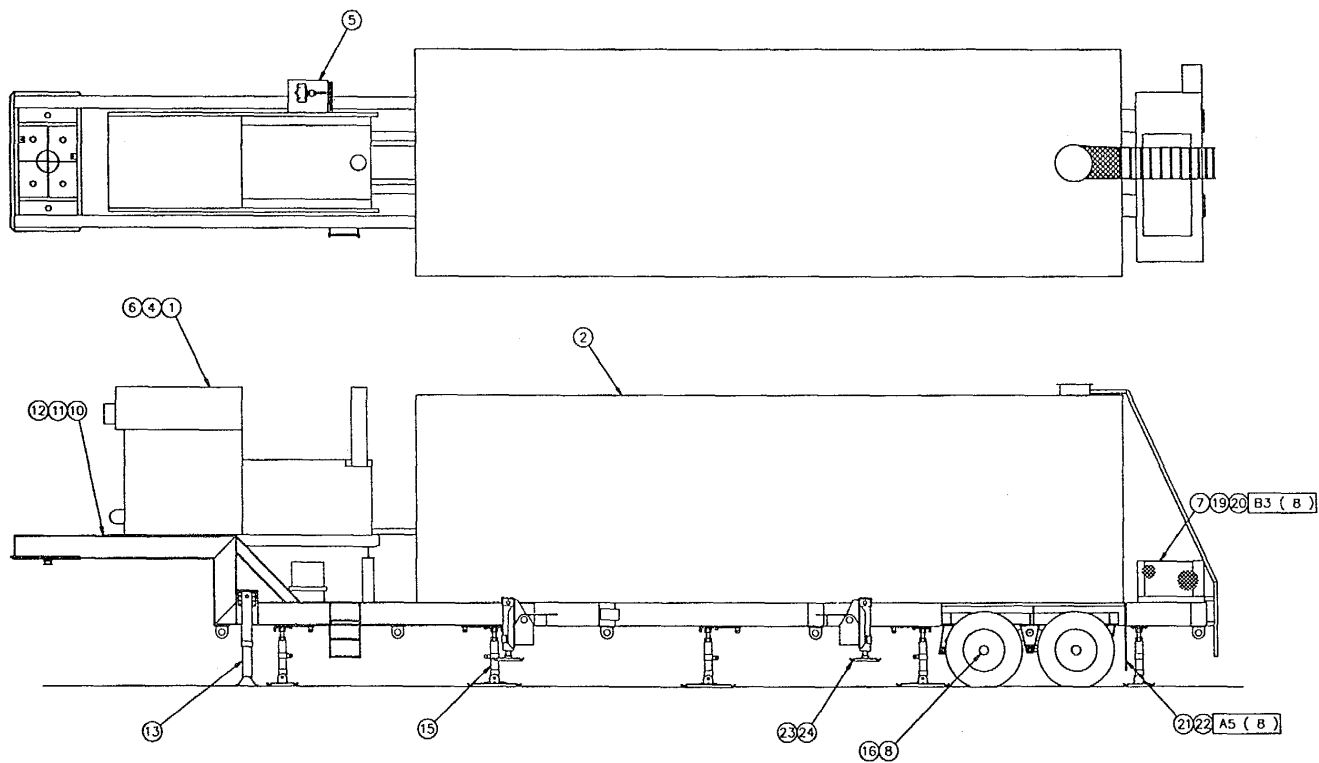


Figure 6 - Asphalt Tanker

**FIGURE 7  
FEED CONVEYOR**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-11		FEED CONVEYOR	Fig 7	1
7-1	1	51-450-89	3AB03	CONVEYOR	Fig 82	1
7-2	1	51-450-97	3AB03	SCREEN ASSEMBLY	Fig 86	1
7-4	1	10-450-45	3AB03	AIR BRAKE SYSTEM	Fig 93	1
7-5	1	51-450-88	3AB03	SUSPENSION ASSEMBLY	Fig 81	1
7-6	1	51-451-02	3AB03	LANDING JACK	Fig 89	1
7-7	1	C2 46213B	41885	WHEEL 8.25 X 22.5		1
7-8	1	C2	73842	RADIAL TIRE 11R22.5		1
		135-72-002-0-000				
7-9	1	C2 10-977-31	3AB03	MUDFLAPS		2
7-10	1	C2 X-289-110	3AB03	MUDFLAPS BACKUP BAR		2
7-11	1	51-451-04	3AB03	SCREW JACK	Fig 91	1
7-12	1	51-451-05	3AB03	LEVELLING JACK	Fig 92	1
7-15	1	61-450-11	3AB03	ELECTRICAL WIRING 12V AND 24V	Fig 102	1
7-16	1	51-450-79	3AB03	FIRE EXTINGUISHER	Fig 21	1
7-17	1	51-451-30	3AB03	5TH WHEEL ADAPTER	Fig 131	1
7-18	1	51-451-33	3AB03	HYDRAULIC PIPING	Fig 68	1
7-20	1	MP 51-201-23	3AB03	TAKE UP TRANSPORT BRACKETS		2
7-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2"LG,NUT,LW		8
7-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/4"LG,NUT,LW		4
7-C5	1	COMMERCIAL		BOLT 1/2" X11/2"LG,NUT,LW		
7-D5	1	COMMERCIAL		BOLT 1/2" X 1 1/2"LG,NUT,LW		3

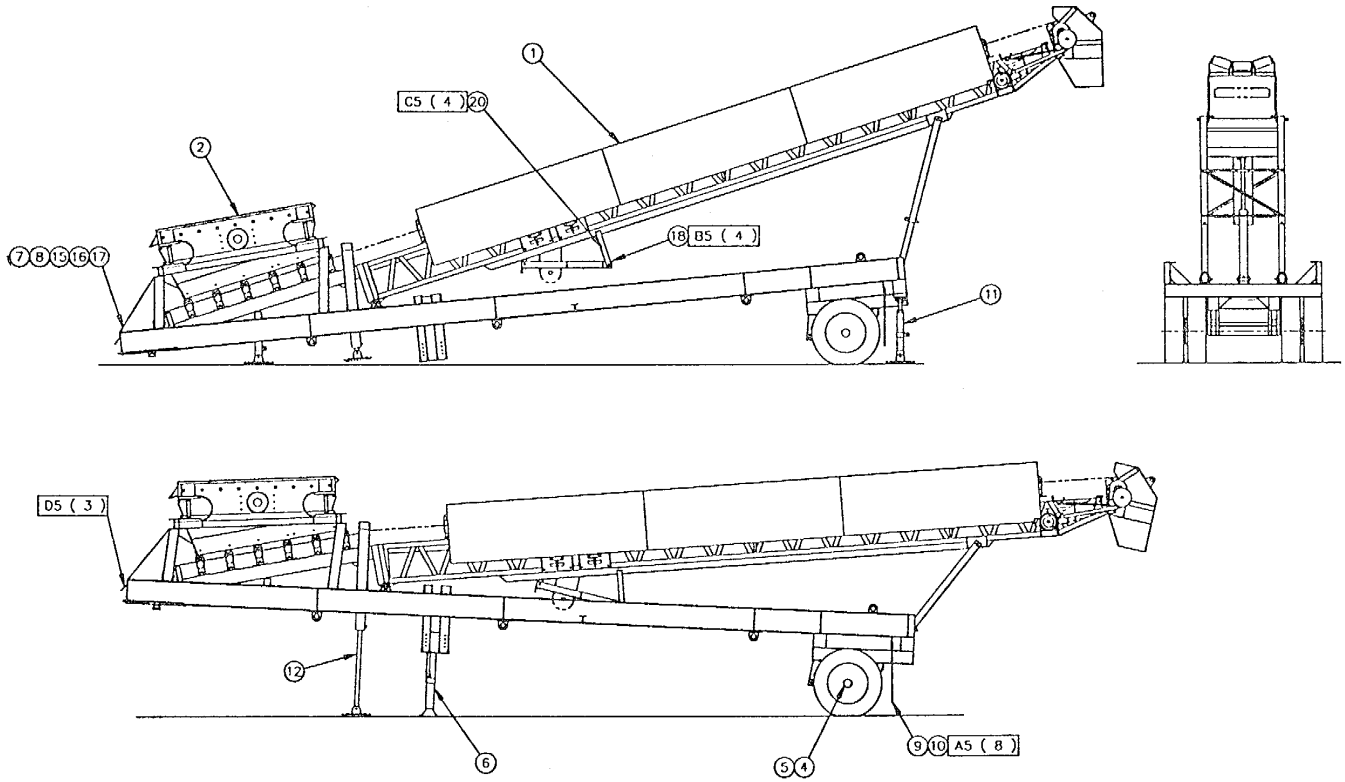


Figure 7 - feed Conveyor



**FIGURE 8  
FOUR BIN FEEDER**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-10		FOUR BIN FEEDER		Fig 8
8-1	1	MP 51-400-18	3AB03	FEED HOPPER MIDDLE SECTION		1
8-2	1	51-402-58	3AB03	FEED HOPPER HEAD SECTION		1
8-3	1	51-400-28	3AB03	FEED HOPPER TAIL SECTION		1
8-4	1	51-450-65	3AB03	BELT FEEDER RIGHT HAND DRIVE	Fig 10	3
8-5	1	C2	73842	TIRE 11R22.5		1
		135-802-002-0-000				
8-6	1	C2 46213B	41885	WHEEL 8.25 X 22.5		1
8-7	1	51-450-61	3AB03	GATHERING CONVEYOR	Fig 11	1
8-8	1	51-450-62	3AB03	CHASSIS		1
8-9	1	MP 51-101-57	3AB03	BELT FEEDER SKIRTING		4
8-10	1	MP 51-101-58	3AB03	BELT FEEDER SKIRTING		4
8-11	1	51-450-49	3AB03	BELT FEEDER LEFT HAND DRIVE	Fig 13	1
8-12	1	MP 51-400-36	3AB03	LADDER		3
8-13	1	MP 51-400-49	3AB03	DIVIDER ASSEMBLY		3
8-14	1	51-450-68	3AB03	CONVEYOR FOLD ASSEMBLY	Fig 14	1
8-15	1	10-450-46	3AB03	AIR BRAKE SYSTEM	Fig 94	1
8-18	1	51-450-72	3AB03	LANDING JACK	Fig 76	1
8-19	1	51-450-73	3AB03	SCREWJACK	Fig 15	10
8-20	1	51-450-74	3AB03	LEVELLING JACK	Fig 16	2
8-21	1	51-450-82	3AB03	DRIVE GUARD DISCHARGE HOOD	Fig 17	1
8-23	1	51-450-76	3AB03	DRIVE GUARD R.H.	Fig 18	3
8-24	1	51-450-67	3AB03	RAMP PLATE	Fig 19	1
8-25	1	51-450-43	3AB03	DRIVE GUARD L.H.	Fig 20	1
8-26	1	51-450-77	3AB03	SUSPENSION ASSEMBLY	Fig 77	1
8-27	1	51-450-79	3AB03	FIRE EXTINGUISHER	Fig 21	1
8-28	1	51-451-30	3AB03	5TH WHEEL ADAPTER	Fig 131	1
8-29	1	51-450-78	3AB03	CONVEYOR CABLE SUPPORT	Fig 23	1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
8-31	1	51-450-80	3ABO3	FEEDER FLOW SWITCH ASSY	Fig 78	4
8-33	1	C5 03-003-83	3ABO3	RETURN BRACKET		2
8-34	1	C5 03-001-33	3ABO3	30" SELF CLEANING RETURN ROLL		1
8-35	1	COMMERCIAL		30" 2 PLY CONVEYOR BELTING X133' 8" LG	1	
8-36	1	MP 51-400-41	3ABO3	HOPPER SUPPORT		1
8-37	1	MP 51-400-42	3ABO3	HOPPER SUPPORT		1
8-39	1	51-400-46	3ABO3	DIVIDER LOCK HINGE PLATE		3
8-40	1	MP 51-201-09	3ABO3	LADDER PIVOT PLATE		6
8-41	1	C2 10-977-31	3ABO3	MUD FLAP		2
8-42	1	MP X-289-110	3ABO3	MUD FLAP BACKUP BAR		2
8-44	1	C5 X-221-11	3ABO3	RETURN IDLER LOCK PLATE		4
8-45	1	C5 03-002-03	3AB03	20 DEGREE IDLER BRACKET		3
8-46	1	C5 03-001-03	3ABO3	30" STEEL TROUGH ROLL		9
8-47	1	C5 X-221-66	3ABO3	RETAINER CLIPS		18
8-49	1	51-451-34	3ABO3	LEVELLING JACK PIPING	Fig 119	1
8-50	1	51-451-35	3ABO3	CONVEYOR HYDRAULIC FOLD PIPING	Fig 120	1
8-51	1	51-452-82	3ABO3	BIN VIBRATOR	Fig 39	4
8-52	1	51-111-11	3ABO3	VALVE BANK MOUNT		2
8-53	1	51-402-59	3ABO3	FEED HOPPER MIDDLE SECTION		
8-54	1	61-450-11	3ABO3	ELECTRICAL WIRING 12V AND 24V	Fig 102	1
8-55	1	51-450-53	3AB03	GATHERING CONVEYOR MID SECTION	Fig 31	
8-56	1	51-450-52	3AB03	GATHERING CONVEYOR HEAD END	Fig 32	
8-A5	1	COMMERCIAL		BOLT 1/2" X1 3/4" LG, NUT, LW, BW, FW(2)		12
8-B5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW, BW, FW	8	
8-C5	1	COMMERCIAL		BOLT 1/2"X 1 1/4" LG, NUT, LW, FW		4
8-D7	1	COMMERCIAL		BOLT 3/4" X 2" LG, NUT, LW, FW		36
8-E6	1	COMMERCIAL		BOLT 5/8" X 1 1/2" LG, NUT, LW		16

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
8-F3	1	COMMERCIAL		BOLT 3/8" X 1/2" LG		2
8-G6	1	COMMERCIAL		BOLT 5/8" X 1 3/4" LG, NUT, LW, FW		18
8-H7	1	COMMERCIAL		BOLT 3/4" X 1 1/2" LG, NUT, LW		56
8-J5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW, FW		22
8-K5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		8
8-L5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW, FW		33
8-M7	1	COMMERCIAL		BOLT 3/4" X 1 1/2" LG, NUT, LW, FW		4

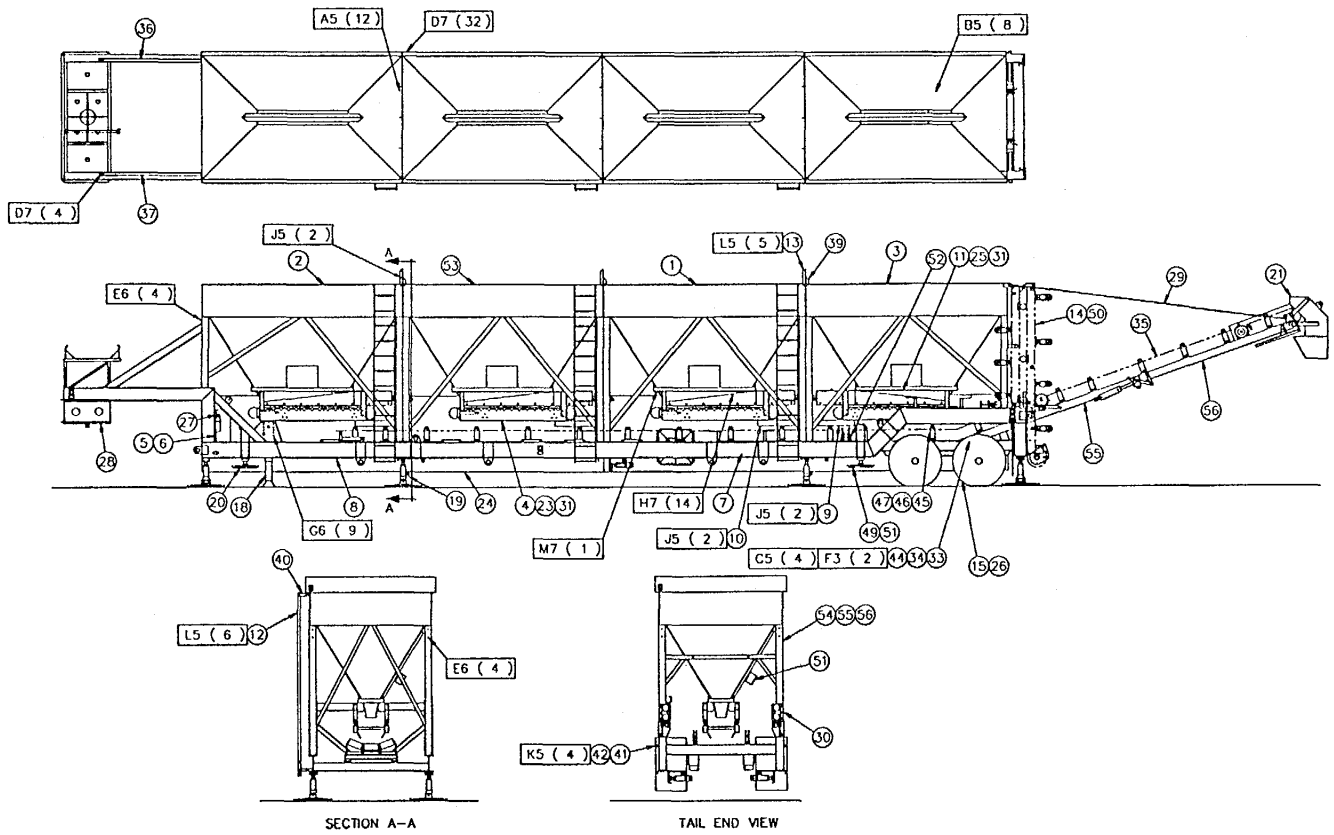


Figure 8- Four Bin Feeder

**FIGURE 9  
DRUM MIXER**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-12		DRUM MIXER	Fig 9	1
9-1	1	40-450-07	3ABO3	DRUM FLIGHTING	Fig 41	1
9-2	1	40-450-11	3ABO3	BURNER AND BLOWER ASSEMBLY	Fig 45	1
9-3	1	40-450-09	3AB03	DRUM DRIVE	Fig 43	1
9-4	1	40-400-51	3ABO3	CHASSIS		1
9-5	1	40-450-15	3ABO3	DISCHARGE ASSEMBLY	Fig 48	1
9-6	1	40-450-18	3ABO3	ASPHALT INJECTION ASSEMBLY	Fig 51	1
9-7	1	40-450-16	3ABO3	DRUM SEAL ASSEMBLY	Fig 49	1
9-9	1	40-450-17	3ABO3	SUSPENSION ASSEMBLY	Fig 50	1
9-10	1	40-450-26	3ABO3	BURNER ACCESSORIES	Fig 148	1
9-11	1	40-450-25	3AB03	SCREW JACK BRACING	Fig 57	1
9-12	1	40-450-19	3AB03	LEVELLING JACK	Fig 52	2
9-14	1	40-450-13	3ABO3	TRUNNION ASSEMBLY (FRONT)	Fig 47	1
9-16	1	10-450-47	3AB03	AIR BRAKE SYSTEM	Fig 95	1
9-18	1	61-450-11	3ABO3	ELECTRICAL WIRING 12V AND 24V	Fig 102	1
9-19	1	51-450-79	3AB03	FIRE EXTINGUISHER	Fig 21	
9-20	1	51-451-30	3AB03	5TH WHEEL ADAPTER	Fig 131	
9-21	1	40-450-21	3ABO3	LANDING JACK	Fig 54	1
9-23	1	40-450-10	3AB03	TRUNNION/GUIDE WHEEL ASSEMBLY (REAR)	Fig 44	1
9-24	1	40-450-22	3ABO3	SCREWJACK	Fig 55	1
9-25	1	C2	73842	TIRE 11R22.5		1
		135-802-002-0-000				
9-26	1	C2 46213B	41885	WHEEL 8.25 X 22.5		1
9-27	1	C2 10-977-31	3ABO3	MUD FLAP		2
9-28	1	C2 X-289-110	3ABO3	MUD FLAP BACKUP BAR		2
9-29	1	40-450-29	3ABO3	LEVELLING JACK PIPING	Fig 53	1
9-30	1	40-450-33	3ABO3	EXHAUST DUCT HOUSING	Fig 160	1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
9-31	1	51-451-68	3ABO3	MIXER TO BAGHOUSE DUCTING	Fig 159	1
9-A5	1	COMMERCIAL		BOLT 1/2"X 1 1/2" LG, NUT, LW		8
9-B7	1	COMMERCIAL		BOLT 3/4" X 2 1/4" LG, NUT, FW,LW		8
9-C7	1	COMMERCIAL		BOLT 3/4" X 2 1/4" LG, NUT, FW, LW		6

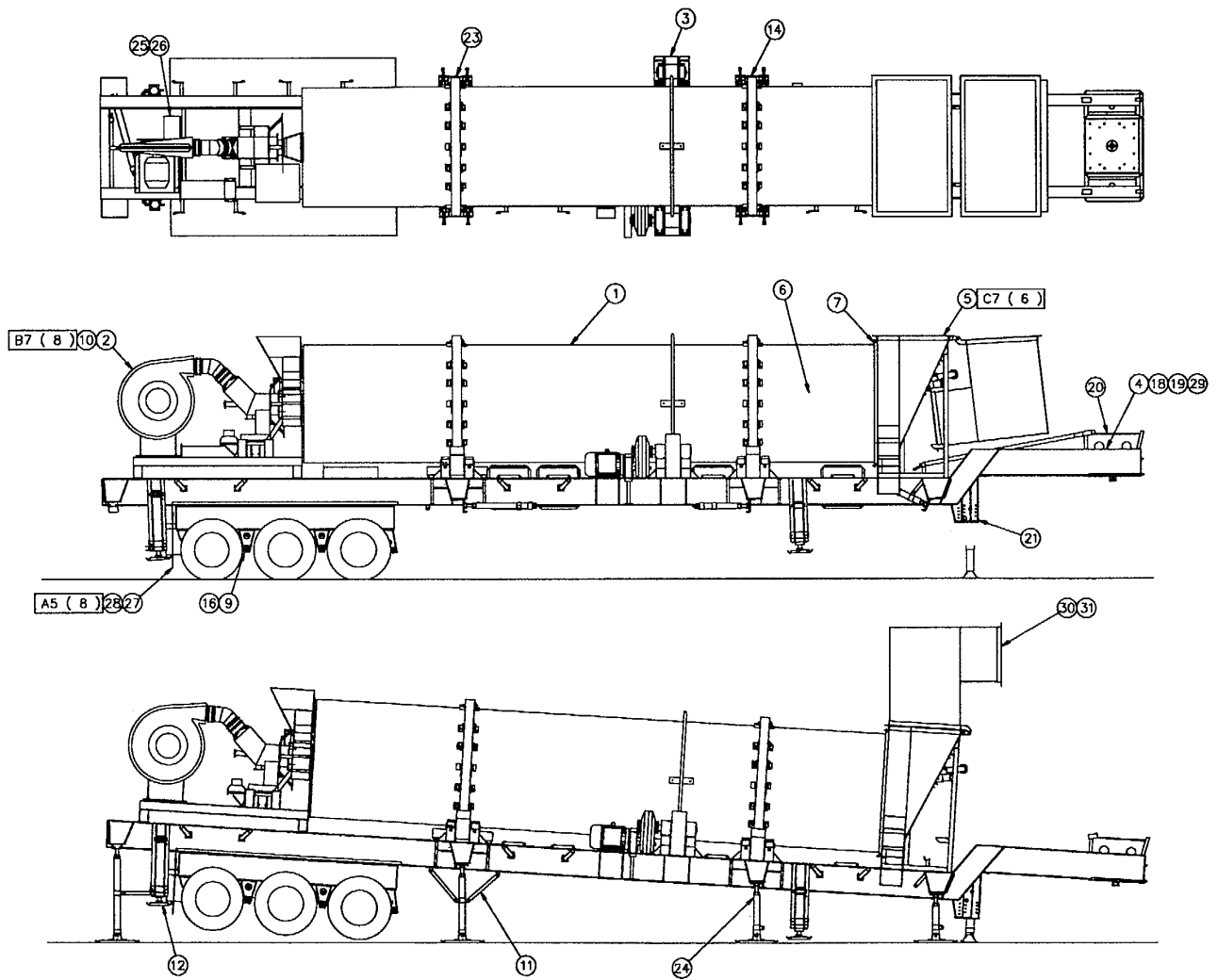


Figure 9- Drum Mixer

**FIGURE 10  
BELT FEEDER RIGHT HAND DRIVE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-65		BELT FEEDER RIGHT HAND DRIVE	Fig 10	3
10-1	1	C5 03-001-11	3ABO3	18" STEEL RETURN ROLL		39
10-2	1	B2 UELP	1C960	PILLOW BLOCK BEARING		6
		211-203D1				
10-3	1	B2 AELP	1C960	PILLOW BLOCK BEARING	6	
		210-115D1				
10-4	1	D3 117175	71956	2517 X 2 3/16" BUSHING		6
10-5	1	D3 117173	71956	2517 X 1 15/16" BUSHING		6
10-7	1	B3 10-944-05	3AB03	18" 2 PLY CONVEYOR BELT		3
10-8	1	MP 03-010-61V	3ABO3	HEAD PULLEY 8" DIAMETER X 18"		3
10-9	1	MP 03-420-66	3ABO3	18" FEEDER HEAD SHAFT		3
10-10	1	MP 03-010-02C	3ABO3	TAIL PULLEY 8" DIAMETER X 18"		3
10-11	1	MP 03-420-67	3ABO3	FEEDER 18" TAIL SHAFT		3
10-12	1	MP 51-400-24	3ABO3	18" PULLEY GUARD		3
10-13	1	03-454-02	3ABO3	TAKE UP	Fig 24	6
10-17	1	MP 51-200-17	3AB03	HOPPER SUPPORT		3
10-18	1	MP 51-200-18	3ABO3	HOPPER SUPPORT		3
10-19	1	MP 51-200-01	3ABO3	HOPPER SUPPORT		3
10-20	1	MP 51-200-02	3ABO3	HOPPER SUPPORT		3
10-36	1	MP X-267-35	3AB03	HOPPER SKIRT CLAMP		6
10-37	1	MP X-267-36	3ABO3	HOPPER SKIRTING		6
10-38	1	51-450-51	3ABO3	RIGHT SIDE DRIVE ASSEMBLY	Fig 25	3
10-39	1	51-450-46	3ABO3	FEED GATE	Fig 26	3
10-40	1	MP 51-400-19	3ABO3	ROLLER HOLD DOWN		3
10-41	1	51-450-47	3ABO3	TRANSFER CHUTE	Fig 27	3
10-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		18
10-B7	1	COMMERCIAL		BOLT 3/4" X 1 1/2" LG, NUT, LW		60
10-C3	1	COMMERCIAL		BOLT 3/8" X 2 1/2" LG, NUT, LW		12



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
10-D2	1	COMMERCIAL		BOLT 5/16" X 1" LG, NUT, LW		24
10-E7	1	COMMERCIAL		BOLT 3/4" X 2 1/4" LG, NUT, LW		18
10-F7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW		6
10-G5	1	COMMERCIAL		CARRIAGE HEAD BOLT 1/2" X 1 3/4" LG, NUT, LW		54
10-H5	1	COMMERCIAL		SQUARE HEAD SET SCREW 1/2" X 2" LG, JAM		6

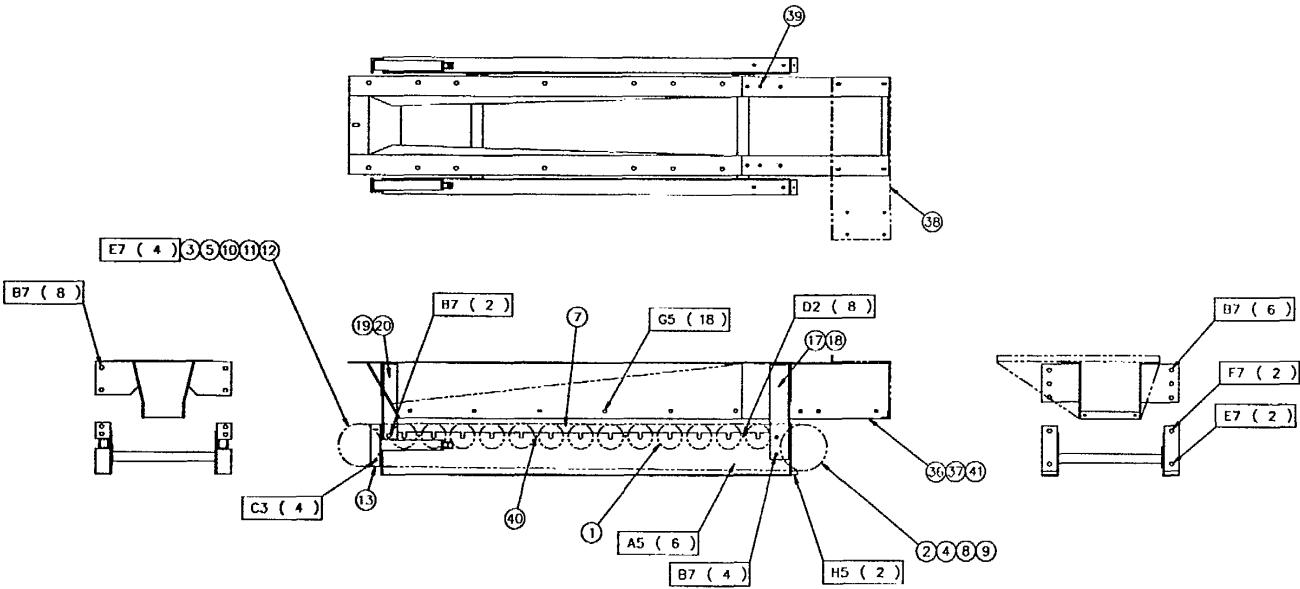


Figure 10 - Belt Feeder Right Hand Drive

**FIGURE 11  
GATHERING CONVEYOR**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-61		GATHERING CONVEYOR	Fig 11	1
11-1	1	MP 03-420-63	3ABO3	CONVEYOR TAIL SHAFT		1
11-2	1	D3 117125	71956	3020 X 2 7/16" BUSHING		2
11-3	1	B2 UELP	1C960	PILLOW BLOCK BEARINGS		2
		212-207D1 BRGS				
11-4	1	MP 03-414-16	3ABO3	PULLEY GUARD		1
11-5	1	MP 03-012-75	3ABO3	TAIL PULLEY 12" DIAMETER X 30"		1
11-6	1	03-453-92	3ABO3	TAKE-UP ASSEMBLY	Fig 34	2
11-7	1	C5 03-002-03	3ABO3	20 DEGREE IDLER BRACKET		12
11-8	1	C5 03-001-03	3ABO3	30" STEEL TROUGH ROLL		36
11-9	1	C5 03-003-83	3ABO3	RETURN BRACKET		6
11-10	1	C5 03-001-33	3AB03	30" SELF CLEANING RETURN ROLL		3
11-12	1	C5 X-221-11	3ABO3	RETURN IDLER LOCK PLATE		6
11-13	1	C5 X-221-66	3ABO3	RETAINER CLIPS		24
11-A3	1	COMMERCIAL		BOLT 3/8" X 1/2" LG, NUT, LW		6
11-B3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW		4
11-C5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW, FW		12
11-D5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW, FW, BW		48
11-E6	1	COMMERCIAL		BOLT 5/8" X 2 1/4" LG, NUT, LW		4

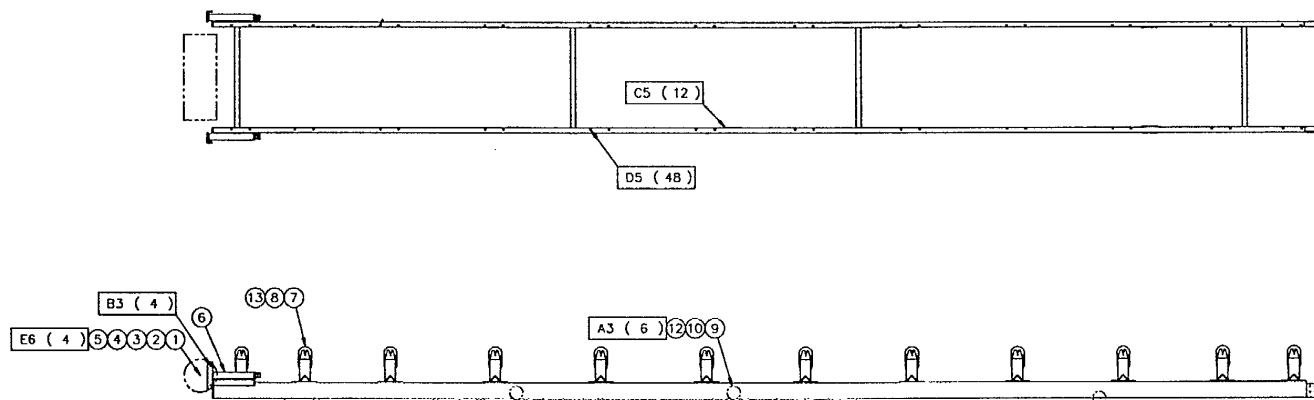


Figure 11-Gathering Conveyor

**FIGURE 12  
HYDRAULIC POWER PACK PIPING SCHEMATIC**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY
	0	90-452-36		HYDRAULIC POWER PACK PIPING SCHEMATIC	Fig 12	
12-2	1	H2 SPE 15-10-3/4- 20	59838	FILTER		1
12-3	1	H2 RPGC-JANCED	1M212	RELIEF VALVE		1
12-4	1	H2 SEH 10-1-100	59838	SUCTION STRAINER		1
12-5	1	20'-0" 1/2"X 1/2" NPT	COMM	HYDRAULIC HOSE		1
12-6	1	20'-0" 1/2"X 1/2" NPT	COMM	HYDRAULIC HOSE		1
12-7	1	H2 5601-08-10	01276	FLUID TRANSFER COUPLING FEMALE		1
12-8	1	H2 FD73-1002-08-10		FLUID TRANSFER COUPLING MALE		1
12-9	1	H2 5209-4M	01276	DUST CAP		1
12-10	1	H2 5205-4M	01276	DUST PLUG		1
12-11	1	H2 2083-16-16S	01276	1" NPT MALE-1" NPT MALE		1
12-12	1	H2 2083-12-12S	01276	3/4" NPT MALE-3/4" NPT MALE		2
12-13	1	H2 2092-12-12S	01276	T" FITTING 3/4" NPT MALE-(2) 3/4" NPT FEMALE		1
12-14-	1	H2 2047-812S	01276	90DEG SWIVEL 1/2" NPT FEMALE 3/4" NPT MALE		2
12-15--	1	H2 2045-12-12S	01276	SWIVEL3/4" NPT MALE3/4" NPT1 FEMALE		1
12-16	1	H2 2066-8-12S	01276	1/2" NPT FEMALE-3/4" ORB MALE		1
12-17	1	H2 2068-16-16S	01276	90DEG SWIVEL 1" NPT FEMALE -1" ORB MALE		1
12-18	1	2'-6"1"X 1" NPT	COMM	HYDRAULIC HOSE		1
12-19	1	2'-6" 3/4"X 3/4" NPT	COMM	HYDRAULIC HOSE		1
12-20	1	H2 2047-8S	01276	90DEG SWIVEL1/2"NPT2 MALE-1/2"NPT FEMALE		2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
12-21	1	H2 PGL-A-63-N-B-300 0-S	59838	0-3000 PSI PRESSURE GAUGE		1

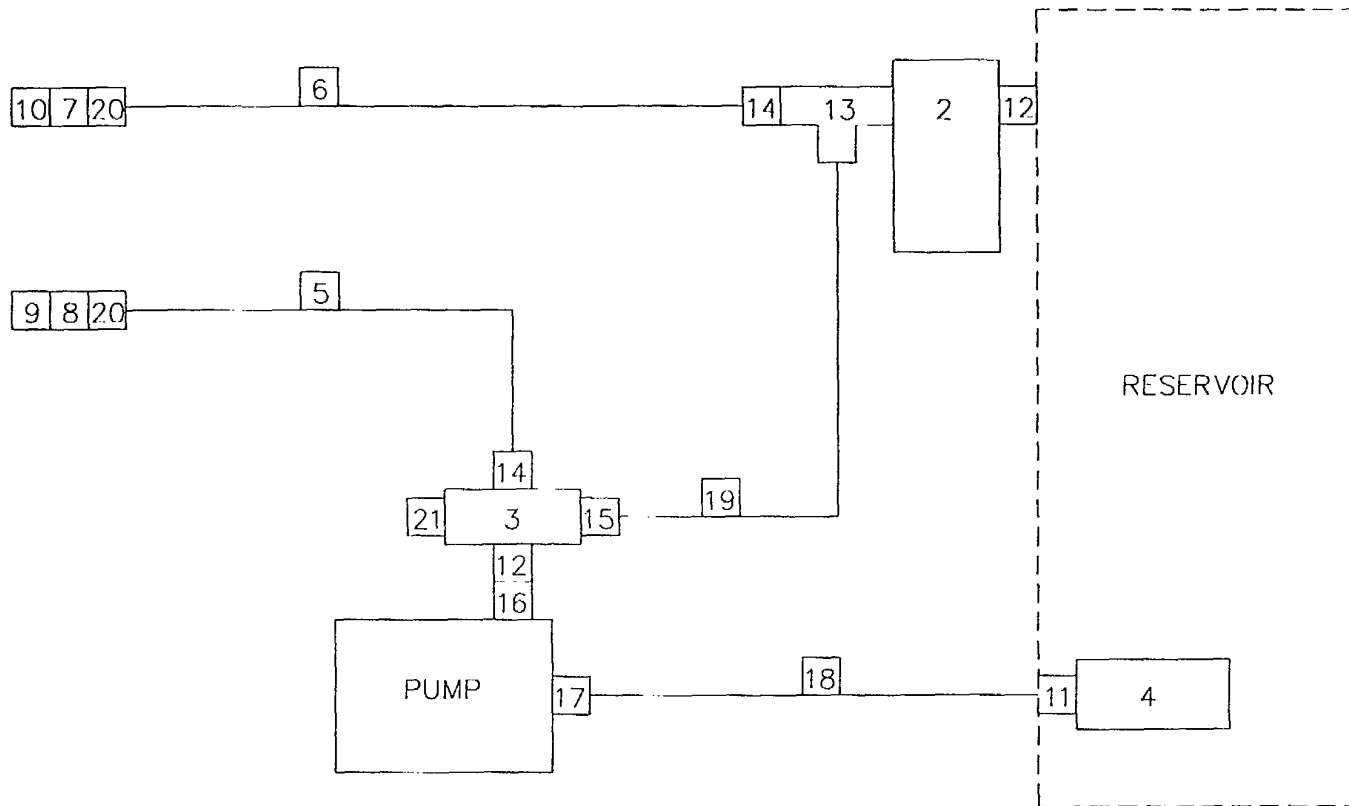


Figure 12-Hydraulic Power Pack Piping Schematic

FIGURE 13

BELT FEEDER LEFT HAND DRIVE

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-49		BELT FEEDER LEFT HAND DRIVE	Fig 13	1
13-1	1	C5 03-001-11	3ABO3	18" STEEL RETURN ROLL		13
13-2	1	B2 UELP	1C960	PILLOW BLOCK BEARING		2
		211-203D1				
13-3	1	B2 AELP	1C960	PILLOW BLOCK BEARING		2
		210-115D1				
13-4	1	D3 117175	71956	2517 X 2 3/16" BUSHING		2
13-5	1	D3 117173	71956	2517 X 1 15/16" BUSHING		2
13-7	1	B3 10-944-05	3ABO03	18" 2 PLY CONVEYOR BELT		1
13-8	1	MP 03-010-61V	3ABO3	HEAD PULLEY 8" DIAMETER X 18"		1
13-9	1	MP 03-420-66	3ABO03	FEEDER HEAD SHAFT		1
13-10	1	MP 03-010-02C	3ABO03	TAIL PULLEY 8" DIAMETER X 18"		1
13-11	1	MP 03-420-67	3ABO03	FEEDER TAIL SHAFT		1
13-12	1	MP 51-400-24	3ABO03	18" PULLEY GUARD		1
13-13	1	03-454-02	3ABO3	TAKE UP	Fig 24	2
13-17	1	MP 51-200-17	3ABO03	HOPPER SUPPORT		1
13-18	1	MP 51-200-18	3ABO3	HOPPER SUPPORT		1
13-19	1	MP 51-200-01	3ABO03	HOPPER SUPPORT		1
13-20	1	MP 51-200-02	3ABO03	HOPPER SUPPORT		1
13-36	1	MP X-267-35	3ABO03	HOPPER SKIRT CLAMP		2
13-37	1	MP X-267-36	3ABO3	HOPPER SKIRTING		2
13-38	1	51-450-50	3ABO3	LEFT SIDE DRIVE ASSEMBLY	Fig 30	1
13-39	1	51-450-46	3ABO3	FEED GATE	Fig 26	1
13-40	1	MP 51-400-19	3ABO03	ROLLER HOLD DOWN		1
13-41	1	51-450-47	3ABO3	TRANSFER CHUTE	Fig 27	1
13-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		6
13-B7	1	COMMERCIAL		BOLT 3/4" X 1 1/2" LG, NUT, LW		20
13-C3	1	COMMERCIAL		BOLT 3/8" X 2 1/2" LG, NUT, LW		4



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
13-D2	1	COMMERCIAL		BOLT 5/16" X 1" LG, NUT, LW		8
13-E7	1	COMMERCIAL		BOLT 3/4" X 2 1/4" LG, NUT, LW		6
13-F7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW		2
13-G5	1	COMMERCIAL		CARRIAGE HEAD BOLT 1/2" X 1 3/4" LG, NUT, LW		18
13-H5	1	COMMERCIAL		SQUARE HEAD SETSCREW 1/2" X 2" LG, JAM		2

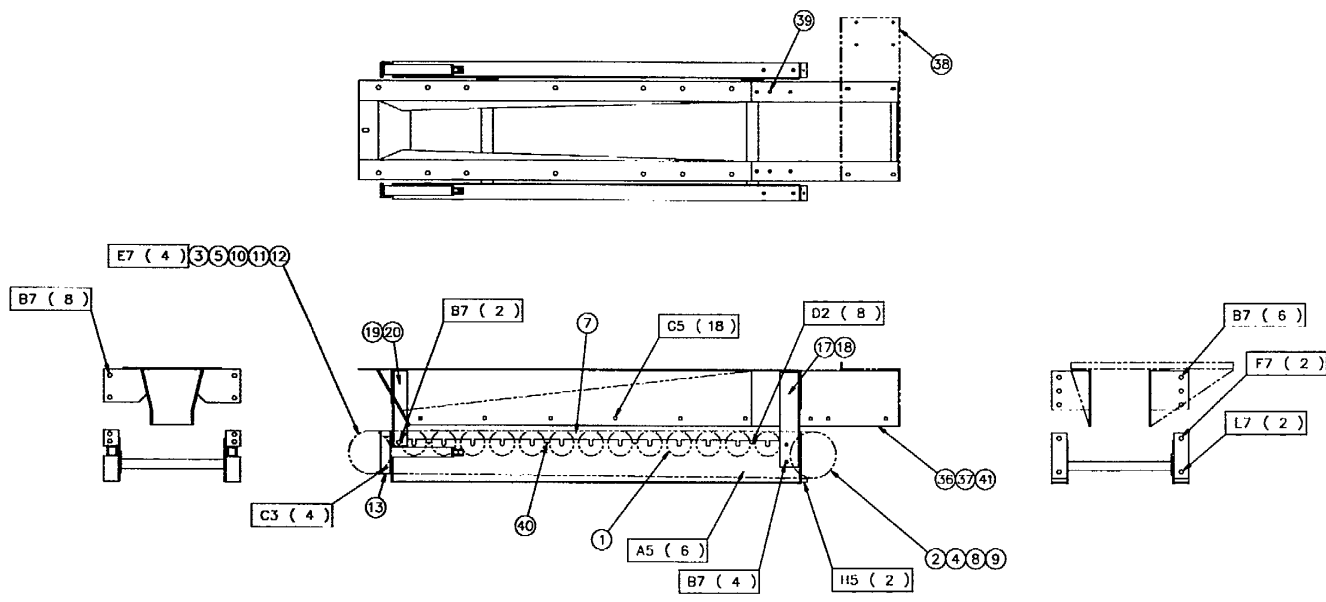


Figure 13-Belt Feeder Left Hand Drive

**FIGURE 14  
CONVEYOR FOLD ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-68		CONVEYOR FOLD ASSEMBLY	Fig 14	1
14-1	1	51-400-58	3ABO3	DISCHARGE CONVEYOR MID SECTION		1
14-2	1	51-400-57	3ABO3	DISCHARGE CONVEYOR END SECTION		1
14-5	1	MP 51-400-52	3ABO3	LINKAGE ARM		2
14-6	1	MP 51-400-51	3ABO3	LINKAGE ARM		2
14-7	1	MP 51-400-60	3ABO3	CYLINDER PIN (DETAIL B)		2
14-8	1	MP 51-400-60	3ABO3	CYLINDER PIN (DETAIL D)		2
14-9	1	MP 51-400-60	3ABO3	CYLINDER PIN (DETAIL A)		2
14-10	1	MP 51-400-60	3ABO3	CYLINDER PIN (DETAIL C)		2
14-11	1	MP 51-204-02	3ABO3	LINKAGE JOINER PIPE		1
14-13	1	MP 51-400-10	3ABO3	HINGE PIN		4
14-14	1	COMMERCIAL		1/8" GREASE NIPPLE		4
14-15	1	51-452-59	3ABO3	BELT TENSIONER		1
14-16	1	51-202-10	3ABO3	PIVOT SHAFT		1
14-17	1	51-202-09	3ABO3	PIVOT SHAFT		1
14-18	1	51-202-11	3ABO3	LINKAGE PIVOT SHAFT	Fig 28	2
14-AO	1	COMMERCIAL		QUICK PIN 1/4"		8
14-D7	1	COMMERCIAL		BOLT 3/4" X 3 1/2" LG, NUT, LW		4
14-E3	1	COMMERCIAL		BOLT 3/8" X 1 3/4" LG, NUT, LW, FW		4
14-F2	1	COMMERCIAL		BOLT 5/16" X 3" LG, NUT, LW		8

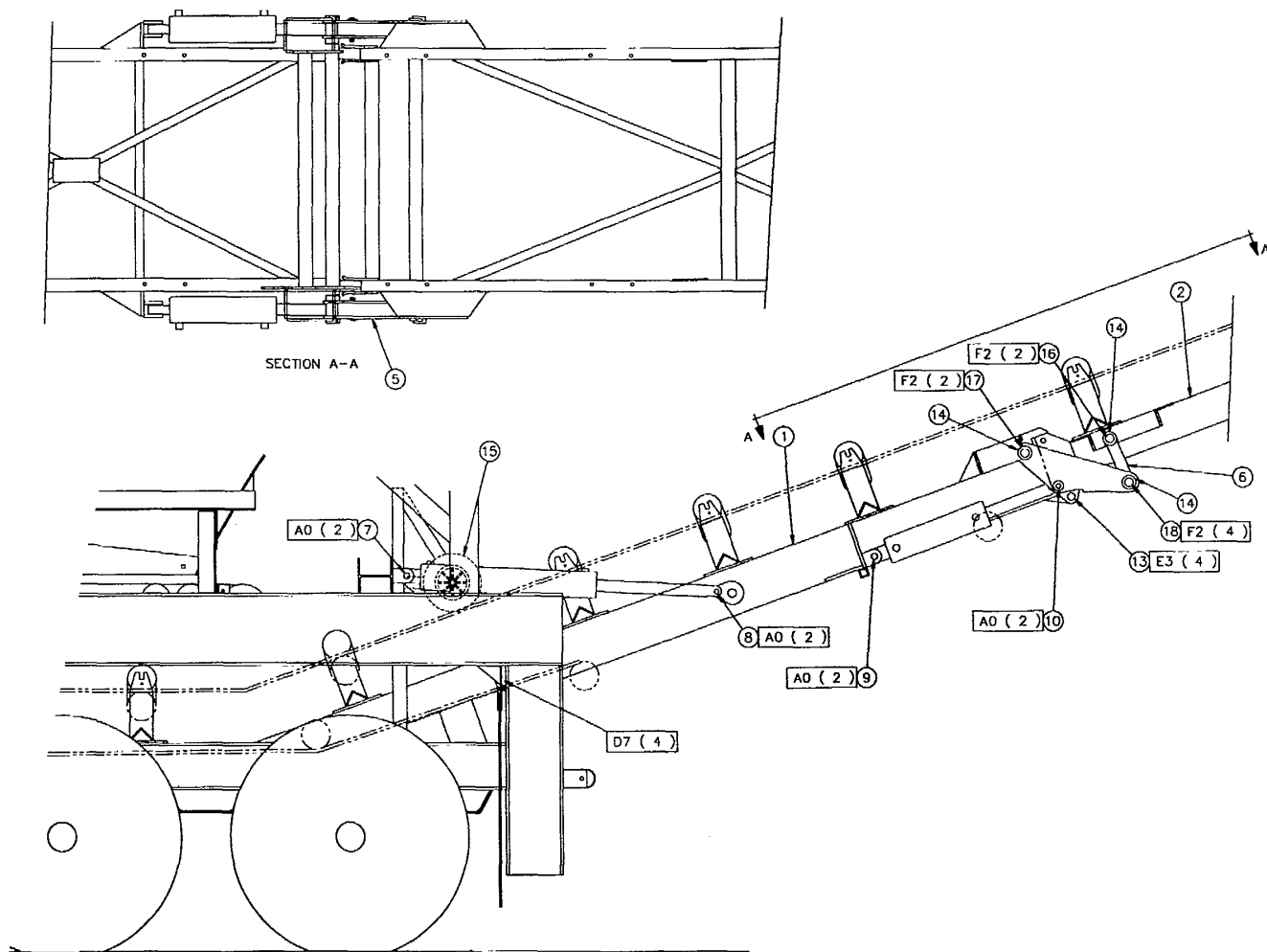


Figure 14-Conveyor Fold Assembly

**FIGURE 15  
SCREW JACK**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PARTNUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-73		SCREWJACK	Fig 15	10
15-1	1	MP 51-400-45	3ABO3	SCREW JACK BODY		10
15-2	1	MP 51-400-44-C	3ABO3	SCREW JACK TOP PLATE DETAIL C		10
15-3	1	MP 51-400-43	3ABO3	SCREWJACK BASE PLATE		10
15-4	1	MP 51-400-44-A	3ABO3	SCREW JACK TOP PLATE DETAIL A		10
15-5	1	MP 51-400-59-B	3AB03	PINS-DETAIL B		10
15-6	1	MP 51-400-59-A	3ABO3	PINS-DETAIL A		10
15-A7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW		20
15-BO	1	COMMERCIAL		COTTER PIN 3/16" X 1 1/4" LG		20
15-C0	1	COMMERCIAL		1/4" QUICK-PIN		30

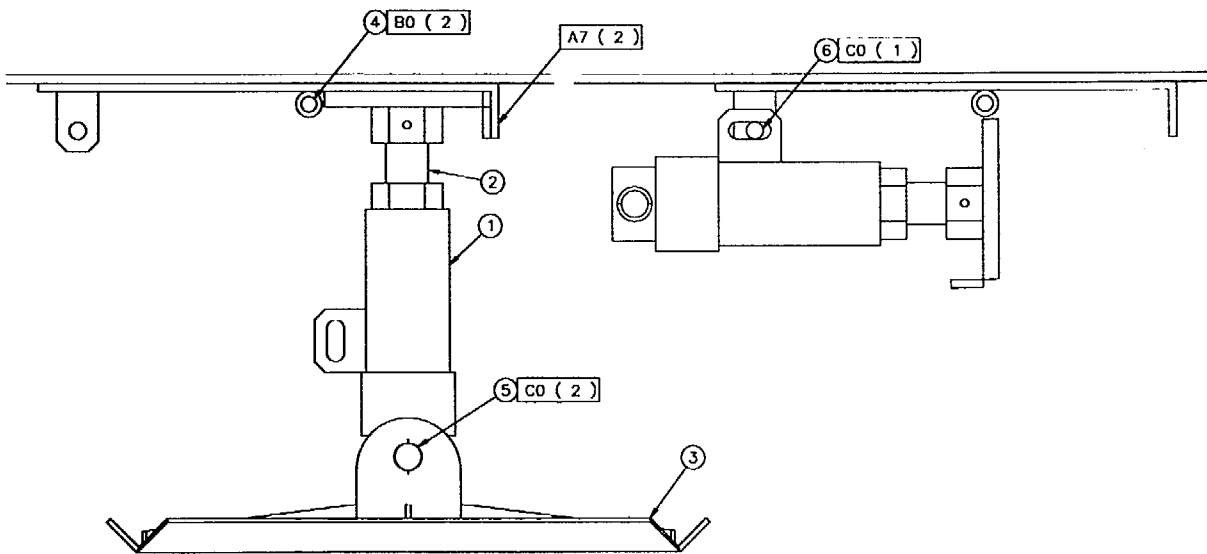


Figure 15-Screw Jack

**FIGURE 16  
LEVELLING JACK**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-74		LEVELLING JACK	Fig. 16	2
16-1	1	MP 51-400-92	3AB03	BASE PLATE HYDRAULIC JACK		2
16-2	1	MP 51-400-64	3AB03	BASE PLATE HYDRAULIC JACK		2
16-3	1	MP 51-202-02	3AB03	PIN LIFT CYLINDER		4
16-5	1	MP 51-400-67	3AB03	CYLINDER CLAMP		4
16-B7	1	COMMERCIAL		BOLT 3/4" X 4 1/2 " LG, NUT		4
16-C5	1	COMMERCIAL		BOLT 1/2" X 1 3/4 " LG, NUT, LW		8
16-DO	1	COMMERCIAL		COTTER PIN 3/8" X 2 1/2" LG		8

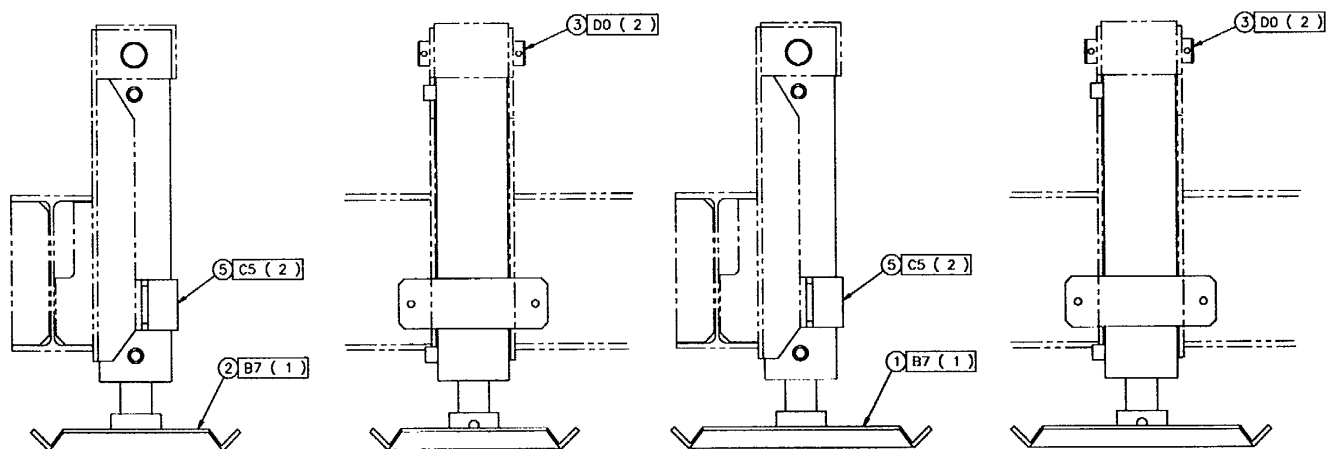


Figure 16-Levelling Jack



**FIGURE 17  
DRIVE GUARD/DISCHARGE HOOD**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-82		DRIVE GUARD/DISCHARGE HOOD	Fig. 17	1
17-1	1	MP 51-400-62	3ABO3	DISCHARGE HOOD		1
17-2	1	MP51-400-63	3ABO3	DRIVE GUARD		1
17-3	1	51-914-01	3ABO3	DEFLECTOR RUBBER		1
17-4	1	51-201-24	3ABO3	DEFLECTOR BACK UP PLATE		1
17-A5	1	COMMERCIAL		BOLT 1/2" X 1" LG, NUT, LW		2
17-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		4
17-C5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW		6
17-D5	1	COMMERCIAL		BOLT 1/2" X 3/4" LG,LW		2
17-E5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW		5

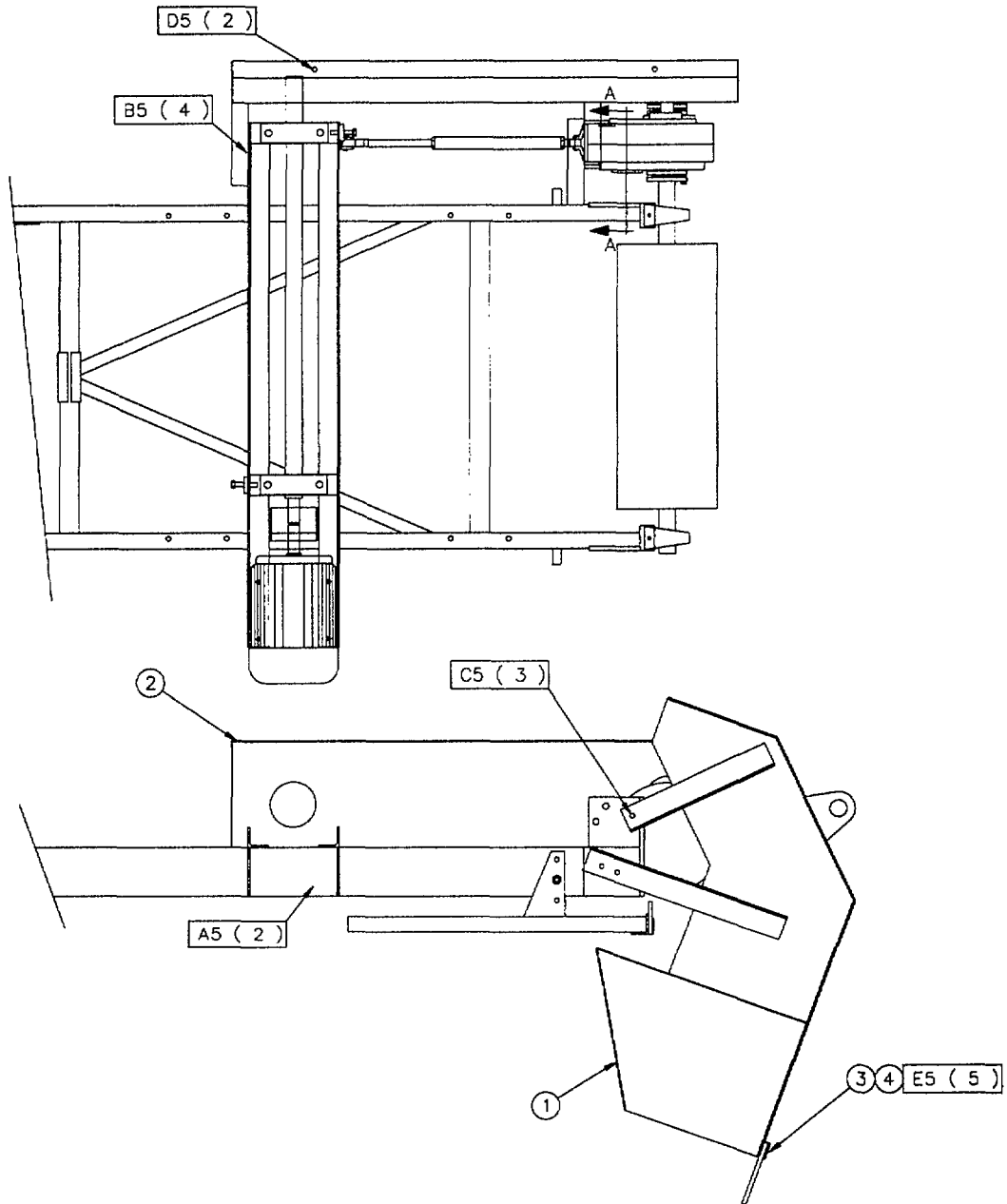


Figure 17-Drive Guard/Discharge Hood

**FIGURE 18  
DRIVE GUARD RIGHT HAND**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-76		DRIVE GUARD RIGHT HAND	Fig. 18	3
18-2	1	MP 51-400-38	3ABO3	DRIVE GUARD		3
18-3	1	MP 51-200-11	3ABO3	GUARD SUPPORT		3
18-A5	1	COMMERCIAL		BOLT 1/2" X 1" LG, NUT, LW		12
18-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		12

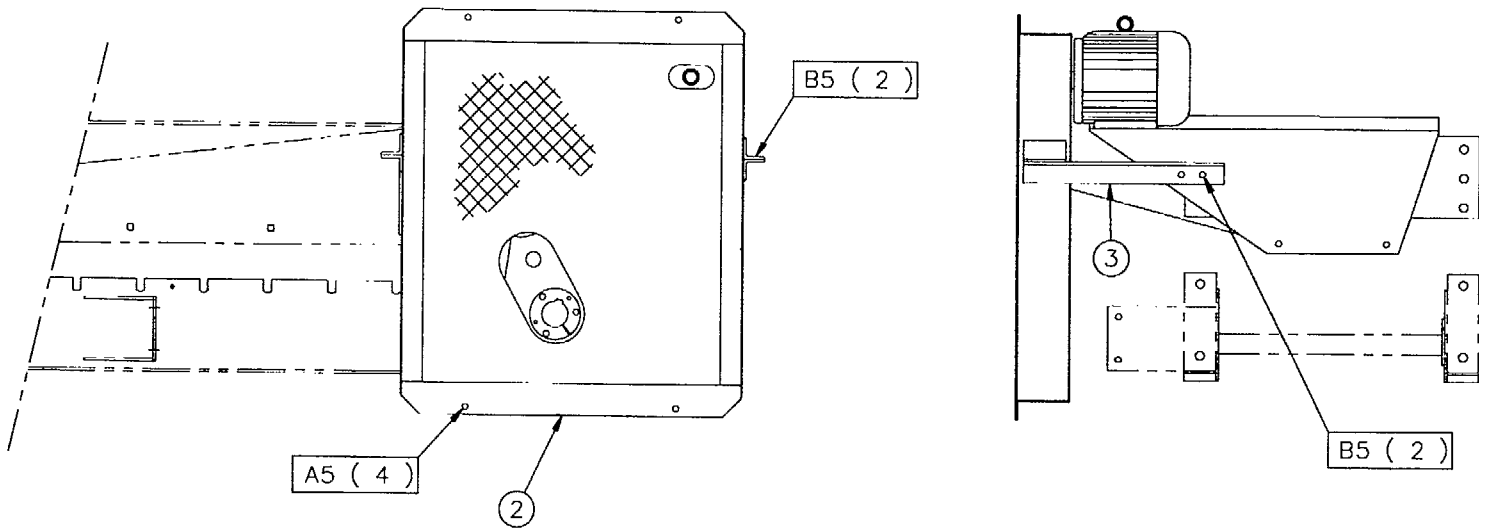


Figure 18-Drive Guard Right Hand

**FIGURE 19  
RAMP PLATE**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-67		RAMP PLATE	Fig. 19	1
19-1	1	51-101-68	3ABO3	RAMP PLATE		3
19-2	1	51-101-69	3ABO3	RAMP PLATE		1
19-A7	1	COMMERCIAL		BOLT 3/4" X 1 1/2" LG, NUT, LW		1
19-B7	1	COMMERCIAL		BOLT 3/4" X 2" LG, NUT, LW		7

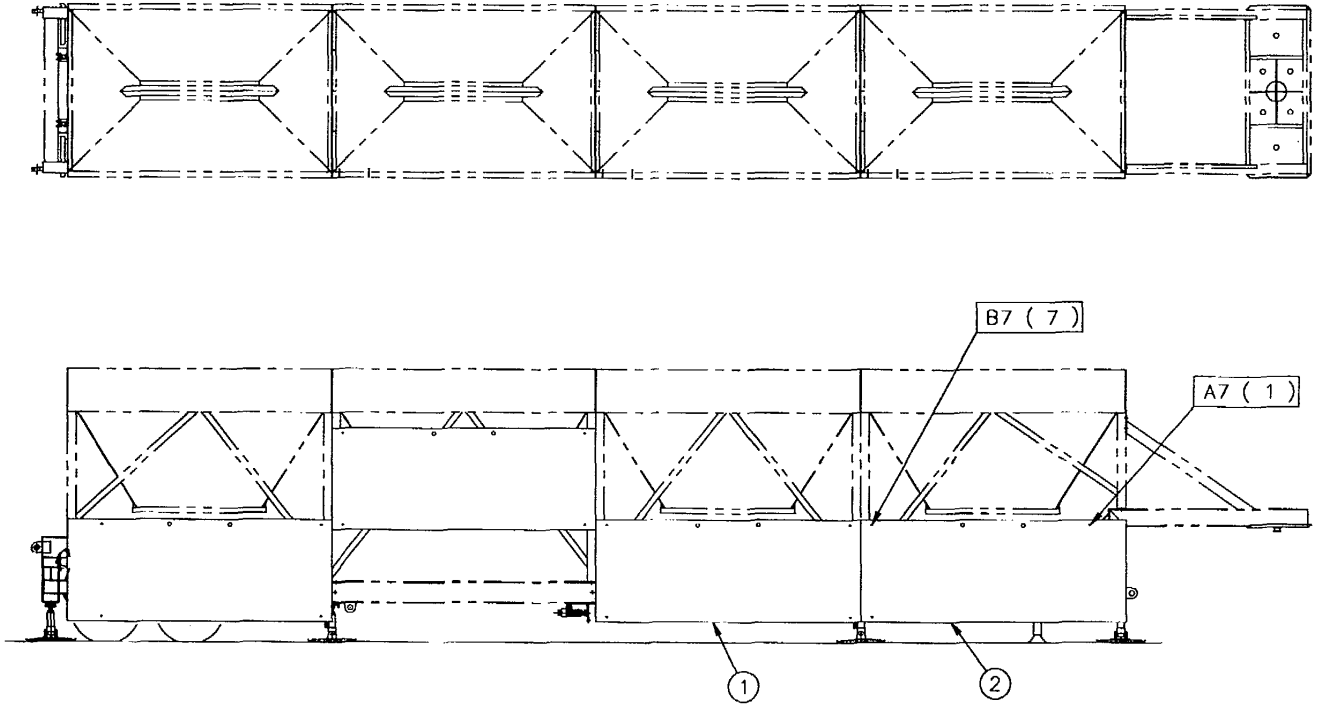


Figure 19-Ramp Plate

**FIGURE 20  
DRIVE GUARD LEFT HAND**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-43		DRIVE GUARD LEFT HAND	Fig. 20	1
20-2	1	MP 51-400-37	3ABO3	DRIVE GUARD		1
20-3	1	MP 51-200-12	3ABO3	GUARD SUPPORT		1
20-A5	1	COMMERCIAL		BOLT 1/2" X 1" LG, NUT, LW		4
20-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		4

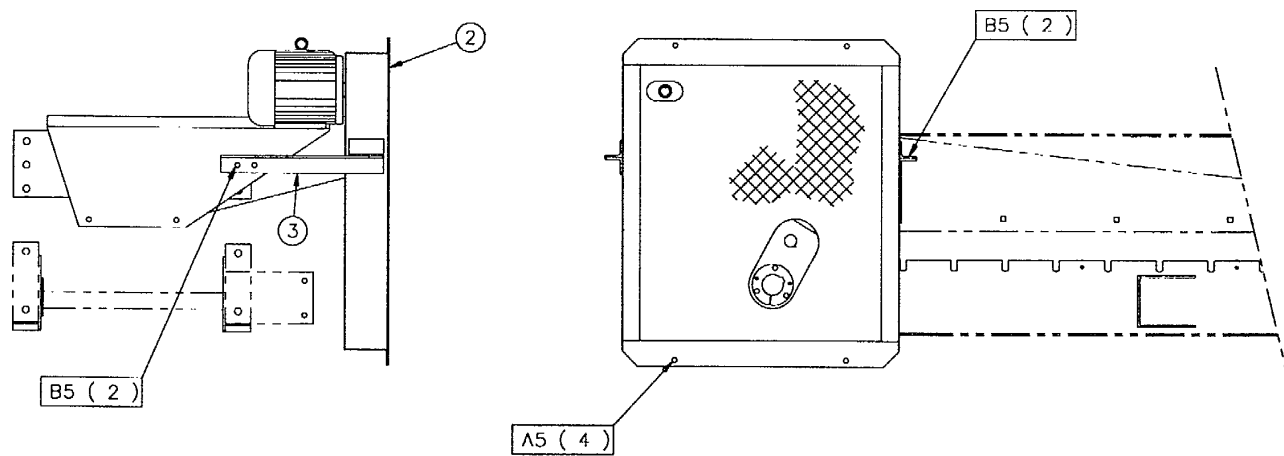


Figure 20-Drive Guard Left Hand



**FIGURE 21  
FIRE EXTINGUISHER**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-79		FIRE EXTINGUISHER	Fig. 21	
21-1	1	AP 53-450-09	0WXN2	FIRE EXTINGUISHER		1
21-A0	1	COMMERCIAL		SCREW # 10 X 1" LG, NUT, LW, FW		6

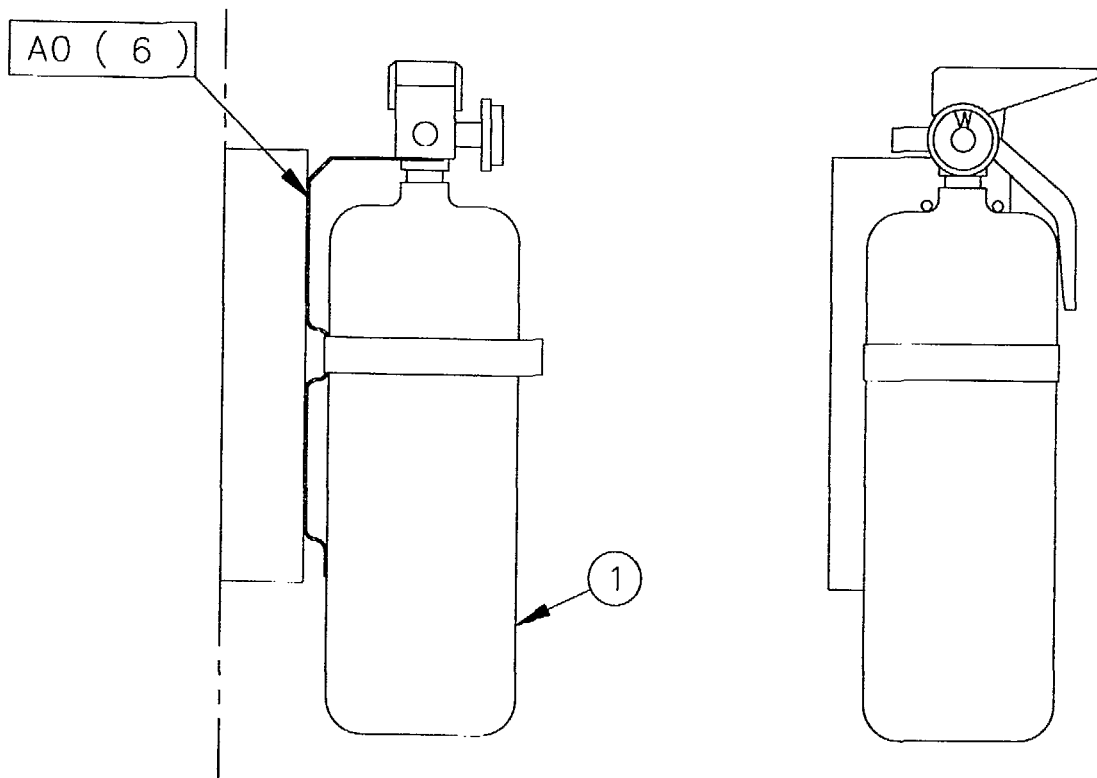
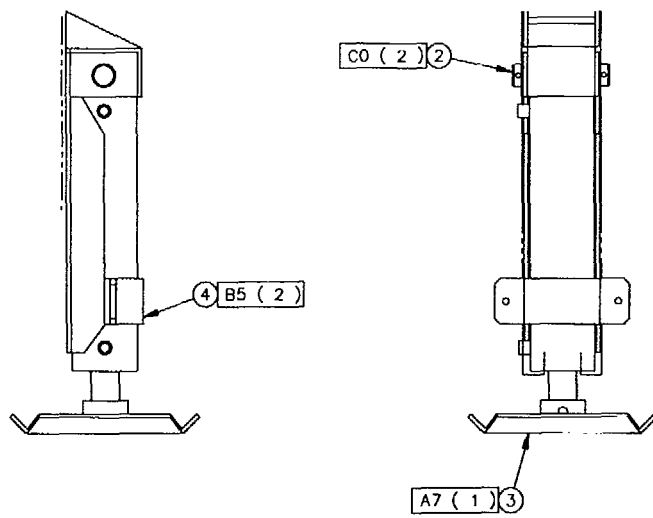
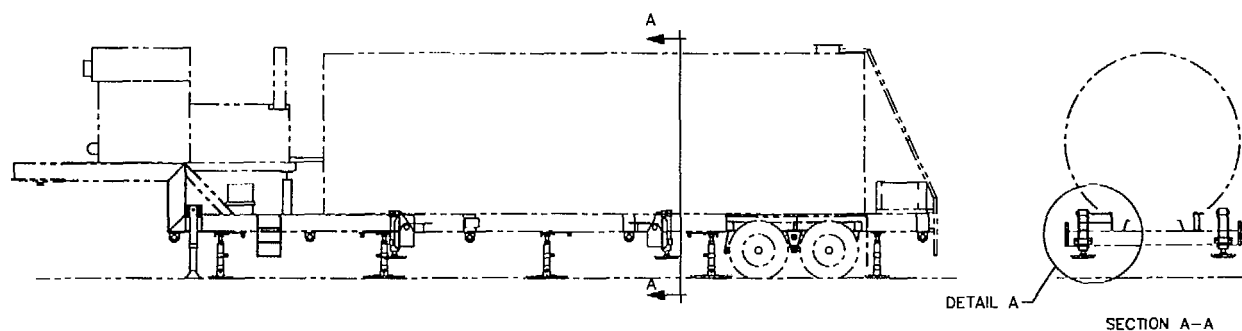


Figure 21-Fire Extinguisher

**FIGURE 22  
LEVELLING JACKS**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-452-86	3ABO3	LEVELLING JACKS	Fig. 22	
22-2	1	MP51-202-02	3ABO3	PIN		4
22-3	1	MP51-400-64	3ABO3	BASE PLATE		4
22-4	1	MP51-400-67	3ABO3	CLAMP		4
22-A7	1	COMMERCIAL	3ABO3	3/4" X 4 1/2" BOLT		4
22-B5	1	COMMERCIAL		1/2" X 2" BOLT, N, LW		8
22-CO	1	COMMERCIAL		3/8" X 2 1/2" COTTER PIN		



DETAIL A

Figure 22-Levelling Jacks

**FIGURE 23  
CONVEYOR CABLE SUPPORT**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-78		CONVEYOR CABLE SUPPORT	Fig. 23	1
23-2	1	COMMERCIAL		JAW & EYE TURNBUCKLE 3/4" X 12" LG		2
23-3	1	COMMERCIAL		3/8" WIRE CABLE X 19'-6"		2
23-4	1	COMMERCIAL		3/8" STD WIRE ROPE THIMBLE		4
23-5	1	COMMERCIAL		3/8" WIRE ROPE CLIP		8

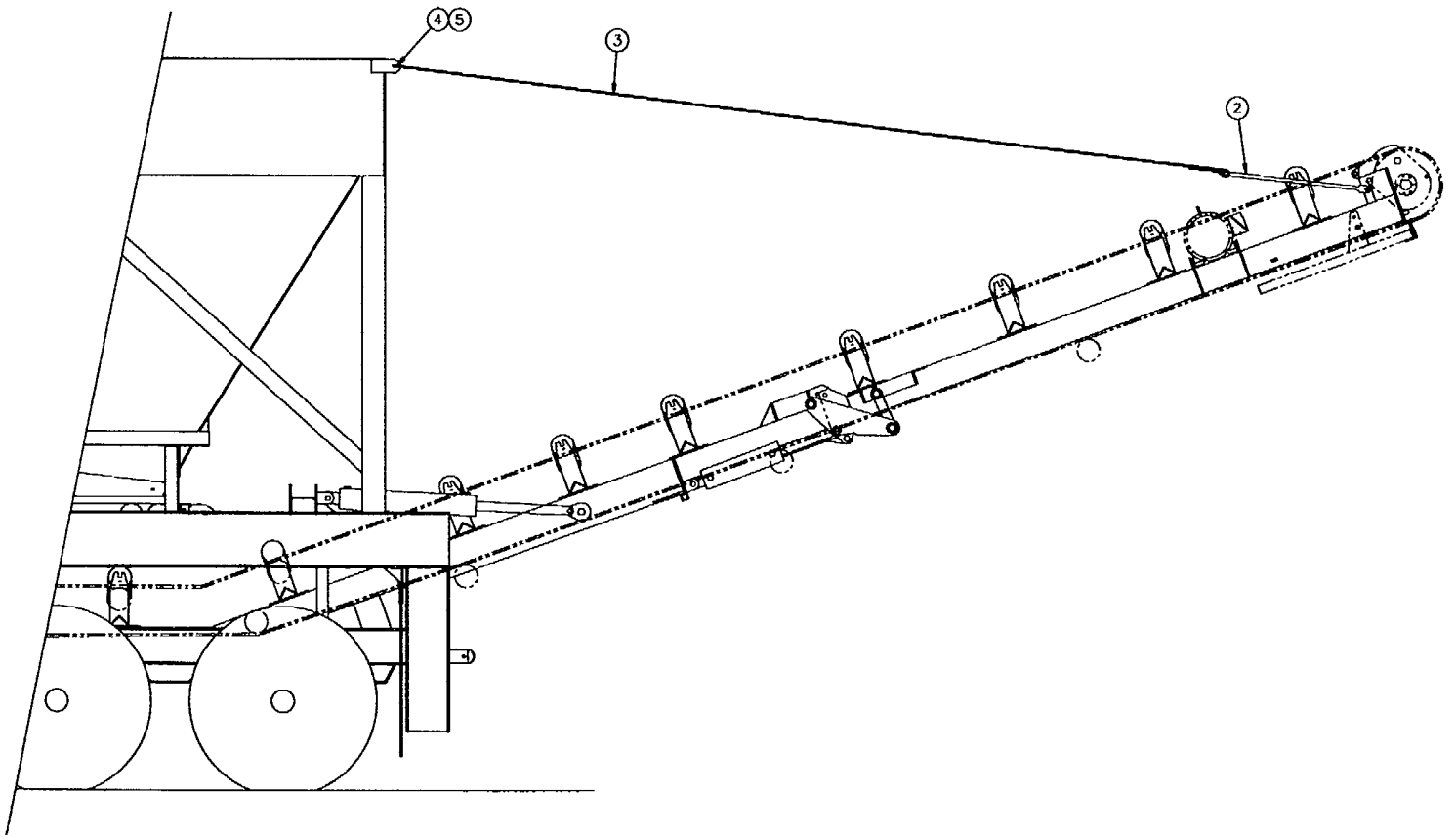


Figure 23-Conveyor Cable Support

**FIGURE 24**  
**TAKE UP ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	03-454-02		TAKE UP ASSEMBLY	Fig. 24	
24-1	1	03-413-77	3ABO3	TAKE UP OUTER ASSEMBLY		1
24-2	1	MO 03-413-78	3ABO3	TAKE UP ROD	Fig. 33	1
24-3	1	MP 03-413-79	3ABO3	TAKE UP INNER ASSEMBLY		1

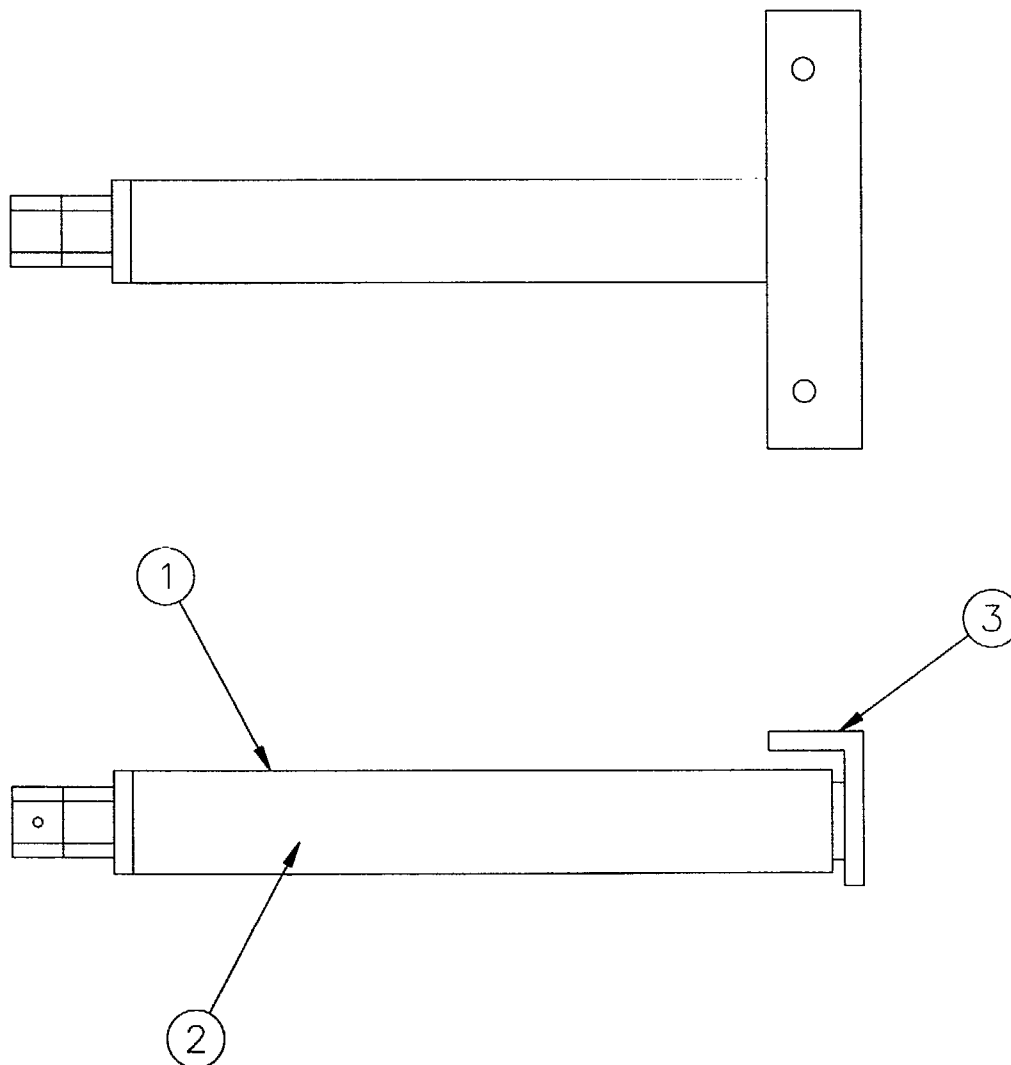


Figure 24-Take up Assembly



**FIGURE 25  
RIGHT SIDE DRIVE ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY
	0	51-450-51		RIGHT SIDE DRIVE ASSEMBLY	Fig 25	3
25-3	1	E3 KM91	36232	3HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		3
25-4	1	D2 244527	71956	TXT 425A REDUCER DODGE	Fig C6	3
25-5	1	D2 244111	71956	TDT4 X 2 3/16"RED BUSHING KIT		3
25-6	1	W2 4.6-2B-SDS	8D709	SHEAVE		3
25-7	1	W2 SDS X 1 1/8"	8D709	BUSHING		3
25-8	1	W2 18.4-2B-SK	8D709	SHEAVE		3
25-9	1	W2 SK X 1 7/16"	8D709	BUSHING		3
25-10	1	W3 B82	8D709	DRIVE BELT		6
25-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		18
25-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		6
25-C3	1	COMMERCIAL		BOLT 3/8" X 1 1/2" LG, NUT, LW		12

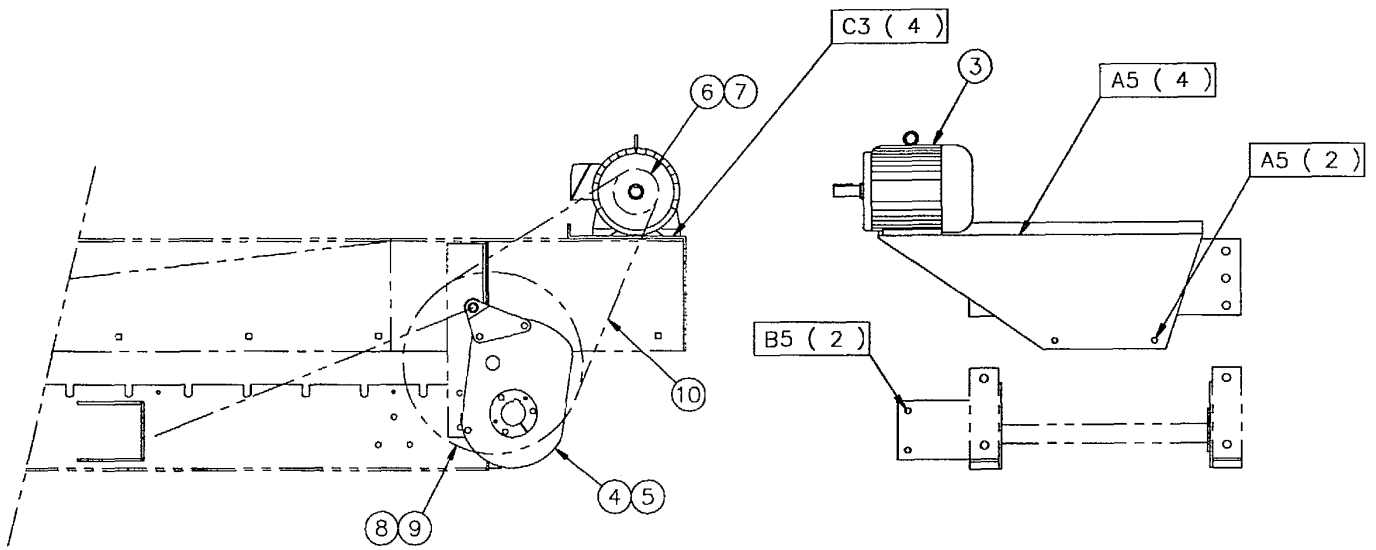


Figure 25-Right Side Drive Assembly

**FIGURE 26  
FEED GATE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-46		FEED GATE	Fig 26	1
26-1	1	MP 51-400-25	3ABO3	FEED GATE DETAIL		1
26-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW, FW		2
26-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		4
26-C0	1	COMMERCIAL		ROLL PIN 1/4" X 1 1/2"		1
26-D7	1	COMMERCIAL		NUT 3/4"		2

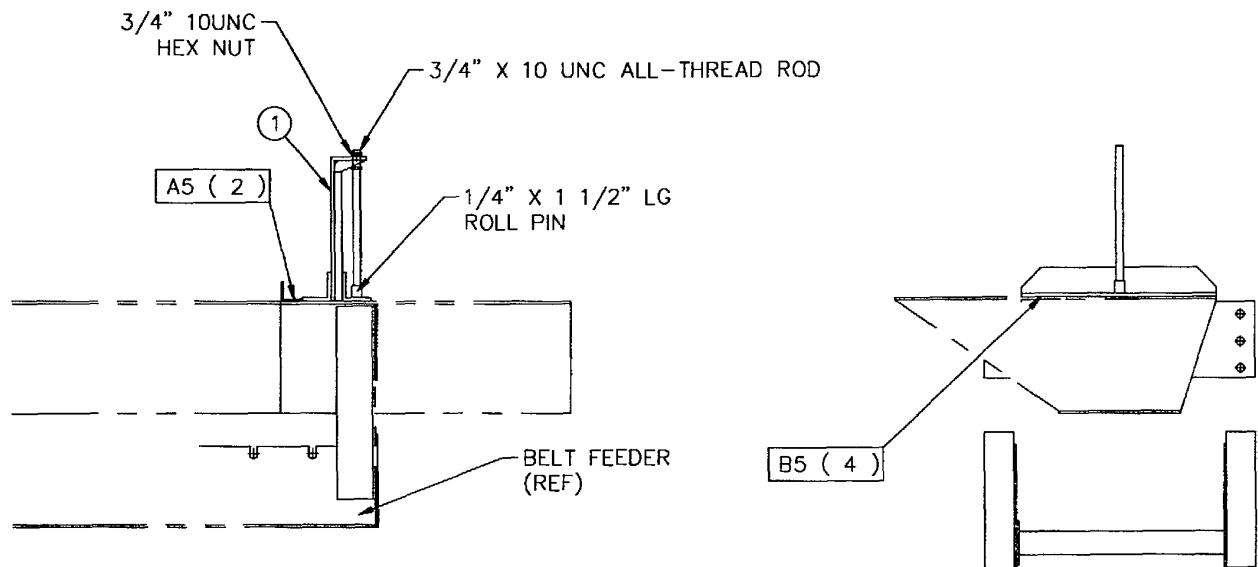


Figure 26-Feed Gate

**FIGURE 27  
TRANSFER CHUTE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-47		TRANSFER CHUTE	Fig 27	1
27-1	1	COMMERCIAL		CONVEYOR BELTING CHUTE		1
27-A5	1	COMMERCIAL		HEX BOLT 1/2" X 1 1/2" LG, NUT, LW, FW		8

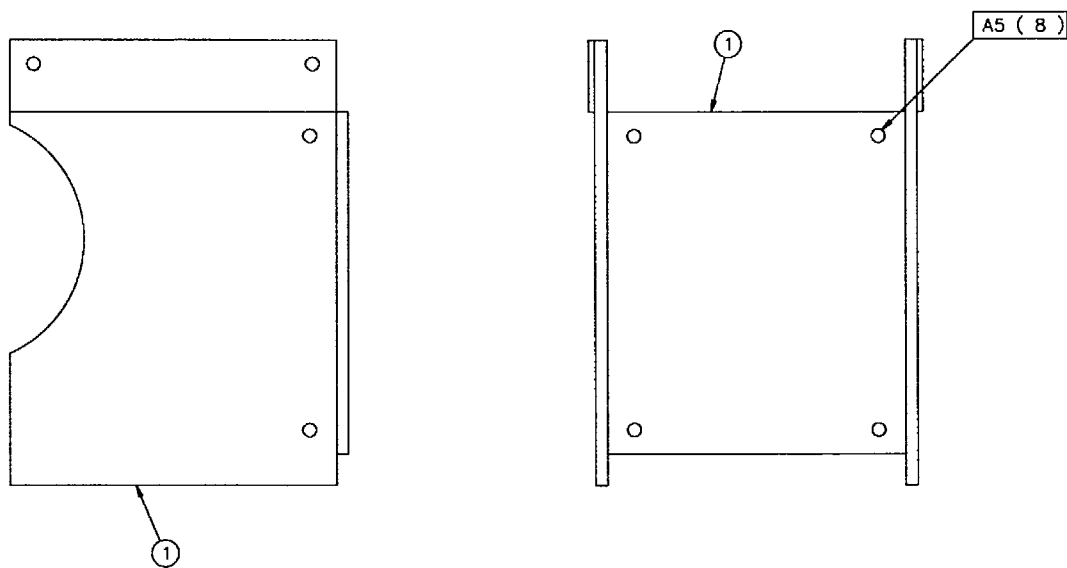


Figure 27-Transfer Chute

**FIGURE 28  
BELT TENSIONER**

FIGURE & INDEX, NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-59		BELT TENSIONER	Fig 28	
28-1	1	MP 51-402-37	3AB03	BELT TENSIONER FRAME		1
28-2	1	MP 51-202-06	3AB03	SHAFT		1
28-3	1	MP 10-987-40	3AB03	WHEEL		2
28-A7	1	COMMERCIAL		3/4" NUT, FW		2
28-B5	1	COMMERCIAL		BOLT 1/2" X 2 1/2" LG, NUT, LW		1

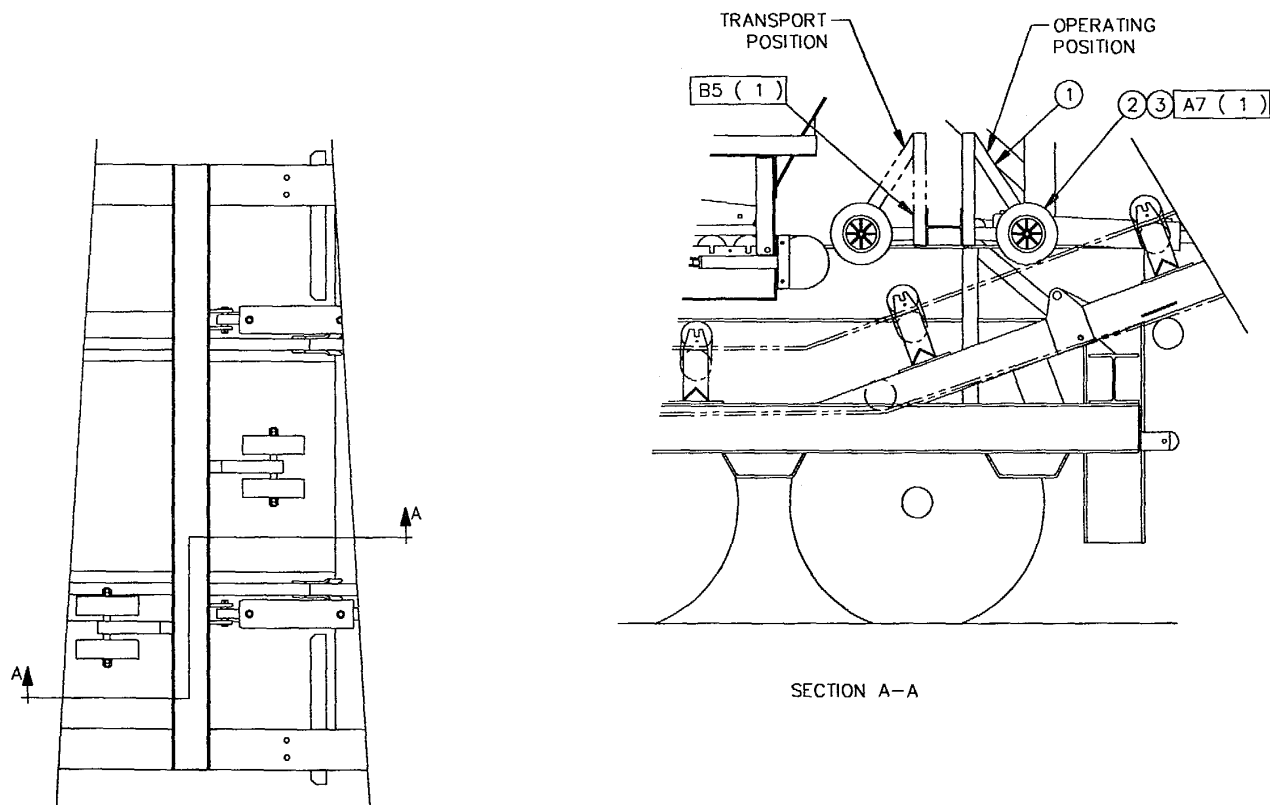
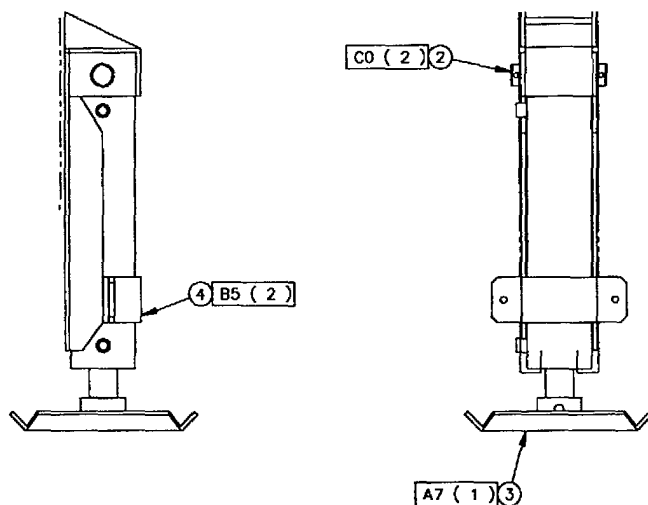
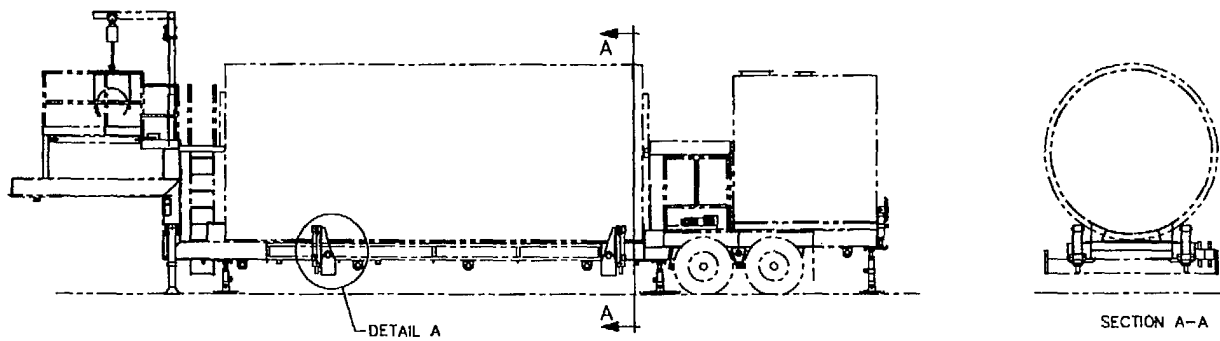


Figure 28-Belt Tensioner



**FIGURE 29  
LEVELLING JACKS**

FIGURE INDEX NUMBER	&	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
		0	51-452-85	3AB03	LEVELING JACKS	Fig 29	
29-2		1	MP51-202-02	3AB03	PIN		4
29-3		1	MP51-400-64	3AB03	BASE PLATE		4
29-4		1	MP51-400-67	3AB03	CLAMP		4
29-A7		1	COMMERCIAL	3/4" X 4 1/2"	BOLT		4
29-B5		1	COMMERCIAL	1/2" X 2"	BOLT, N, LW		8
29-CO		1	COMMERCIAL	3/8" X 2 1/2"	COTTER PIN		



DETAIL A

Figure 29-Leveling Jacks

**FIGURE 30  
LEFT SIDE DRIVE ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-50		LEFT SIDE DRIVE ASSEMBLY	Fig 30	1
30-3	1	E3 KM91	36232	3HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
30-4	1	D2 244527	71956	TXT 425A REDUCER DODGE	Fig C6	1
30-5	1	D2 244111	71956	TDT4 X 2 3/16" RED BUSHING KIT		1
30-6	1	W2 4.6-2B-SDS	8D709	SHEAVE		1
30-7	1	W2 SDS X 1 1/8"	8D709	BUSHING		1
30-8	1	W2 18.4-2B-SK	8D709	SHEAVE		1
30-9	1	W2 SK X 1 7/16"	8D709	BUSHING		1
30-10	1	W3 B82	8D709	DRIVE BELT		2
30-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		6
30-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		2
30-C3	1	COMMERCIAL		BOLT 3/8" X 1 1/2" LG,NUT,LW		4

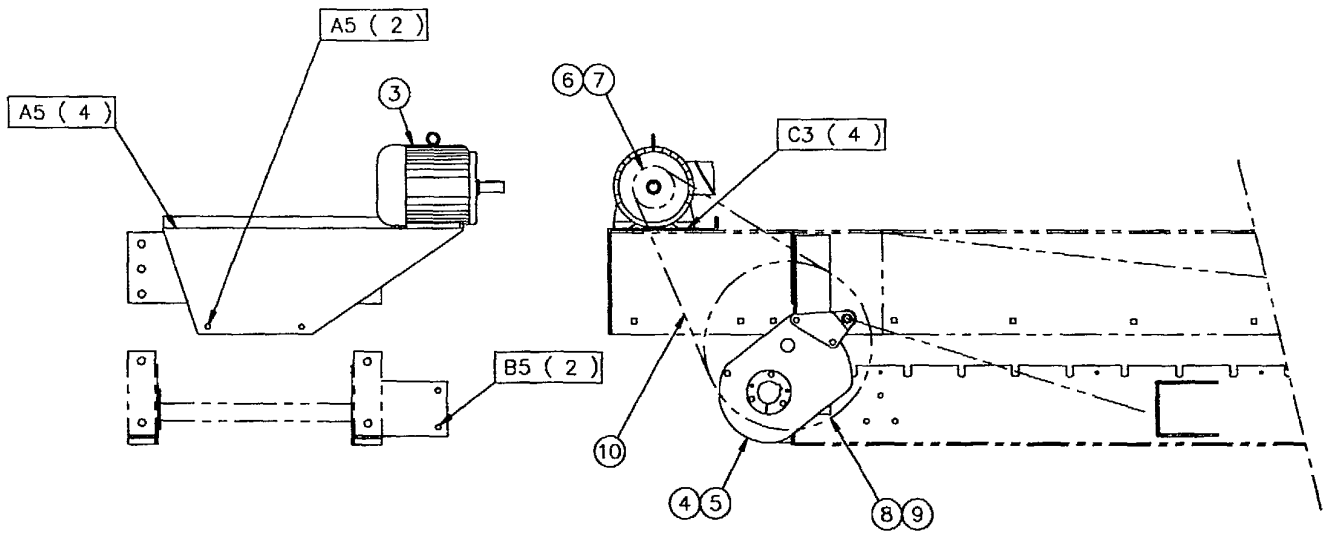


Figure 30-Left Side Drive

**FIGURE 31  
GATHERING CONVEYOR MID SECTION**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-53		GATHERING CONVEYOR MID SECTION	Fig 31	1
31-1	1	C5 03-003-84	3ABO3	RETURN BRACKET		4
31-2	1	C5 03-001-33	3ABO3	30" SELF CLEANING RETURN ROLL		2
31-3	1	C5 03-002-03	3ABO3	20 DEGREE IDLER BRACKET		3
31-4	1	C5 03-001-03	3ABO3	30" STEEL TROUGH ROLL		9
31-7	1	C5 X-221-11	3ABO3	RETURN IDLER LOCK PLATE		10
31-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW, FW		8
31-B5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW, FW, BW		12
31-C3	1	COMMERCIAL		BOLT 3/8" X 1/2" LG, NUT, LW		10

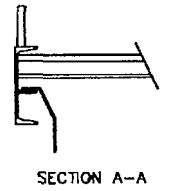
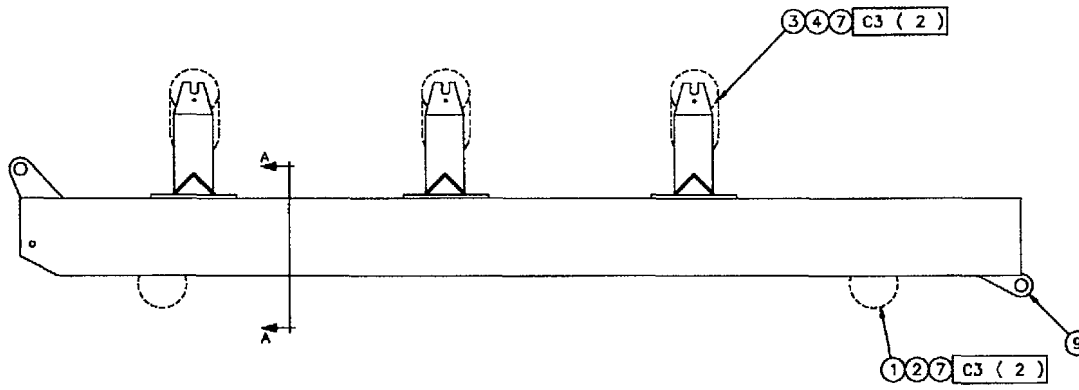
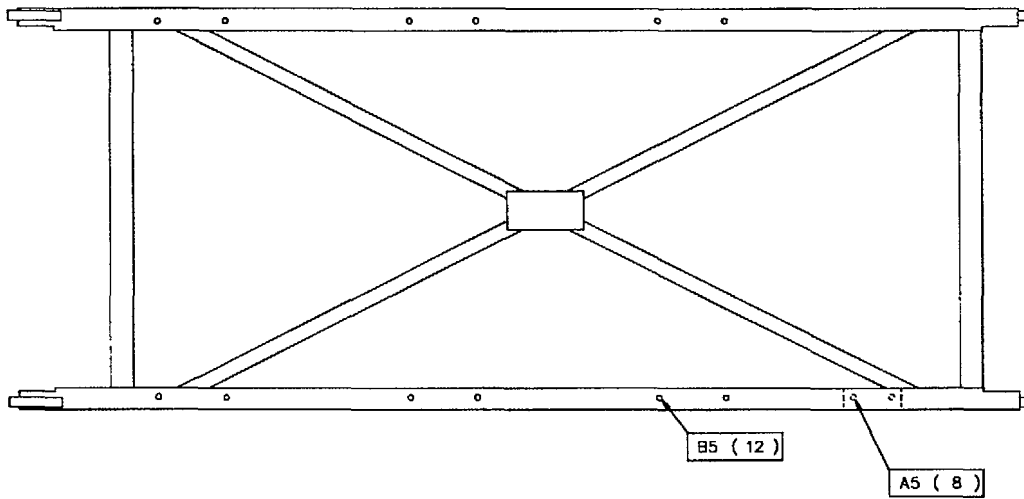


Figure 31-Gathering Conveyor Mid Section

**FIGURE 32  
GATHERING CONVEYOR HEAD END**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-52		GATHERING CONVEYOR HEAD END	Fig 32	1
32-3	1	MP 03-409-15	3ABO3	30" CONVEYOR SCRAPER ASSEMBLY		1
32-4	1	MP 03-904-44	3ABO3	SCRAPER RUBBER		1
32-5	1	MP 03-221-35	3ABO3	SCRAPER BACKUP PLATE		1
32-6	1	MP 03-400-41	3ABO3	SCRAPER EXTRA WEIGHT ASSEMBLY		2
32-7	1	C5 03-002-03	3ABO3	20 DEGREE IDLER BRACKET		4
32-8	1	C5 03-001-03	3ABO3	30" STEEL TROUGH ROLL		12
32-9	1	E3 KM156	36232	10HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
32-10	1	MP 03-012-42V	3ABO3	HEAD PULLEY 12" DIAMETER X 30"		1
32-11	1	D3 117125	71956	3020 X 2 7/16" BUSHING		2
32-12	1	MP 03-022-11	3ABO3	HEAD SHAFT		1
32-13	1	B2 UELP 212-207D1	1C960	PILLOW BLOCK BEARING		2
32-14	1	D2 244526	71956	TXT 415A DODGE REDUCER	Fig C6	1
32-15	1	D2 244115	71956	TDT4 X 2 7/16 RED BUSHING KIT		1
32-16	1	W2 9.0-2B-SK	8D709	SHEAVE		1
32-17	1	W2 SK X 1 7/16"	8D709	BUSHING		1
32-18	1	W3 B112	8D709	DRIVE BELTS		2
32-19	1	W2 6.0-2B-SDS	8D709	SHEAVE		1
32-20	1	W2 SDS X 1 3/8	8D709	BUSHING		1
32-23	1	C5 03-003-84	3ABO3	RETURN BRACKET		2
32-24	1	C5 03-001-33	3ABO3	30" SELF CLEANING RETURN ROLL		1
32-26	1	C5 X-221-11	3ABO3	RETURN IDLER LOCK PLATE		10
32-35	1	MP 51-202-05	3ABO3	DRIVE SHAFT		1
32-36	1	B2 AELP 210-115D1	1C960	PILLOW BLOCK BEARING		2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
32-37	1	W3 7JE	8D709	SURE FLEX SLEEVE		1
32-38	1	W3 7S X 1 3/8	8D709	SURE FLEX FLANGE		1
32-39	1	W3 7S X 1 7/16	8D709	SURE FLEX FLANGE		1
32-A3	1	COMMERCIAL		BOLT 3/8"X1/2" LG, NUT, LW		10
32-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW, FW		4
32-C5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW, FW, BW		16
32-D3	1	COMMERCIAL		BOLT 3/8" X 1 1/2" LG, NUT, LW		4
32-F5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		2
32-G6	1	COMMERCIAL		BOLT 5/8" X 2 1/2" LG, NUT, LW, FW		4
32-H5	1	COMMERCIAL		BOLT 1/2" X 3 1/4" LG, NUT, LW, FW (2)		2
32-I3	1	COMMERCIAL		BOLT 3/8" X 1 1/2" LG, NUT, LW, FW		4
32-J3	1	COMMERCIAL		BOLT 3/8" X 1" LG		2
32-K5	1	COMMERCIAL		SQUARE HEAD SET SCREW 1/2" X 2" LG		2
32-L5	1	COMMERCIAL		JAM HUT 1/2"		2
32-M7	1	COMMERCIAL		BOLT 3/4" X 2" LG, NUT, LW, FW		4



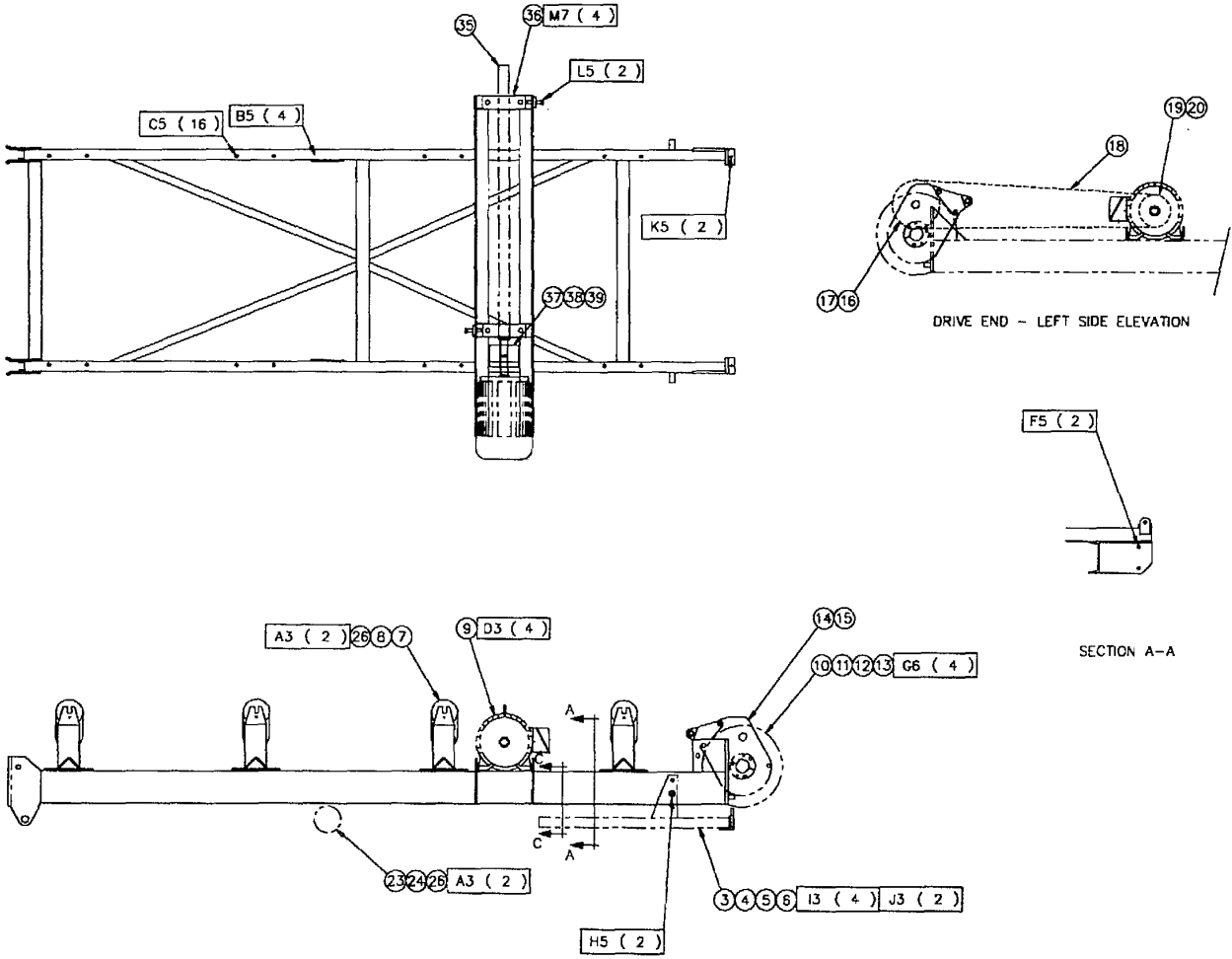


Figure 32-Gathering Conveyor Head End

**FIGURE 33**  
**TAKE UP ROD**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	03-413-78		TAKE UP ROD	Fig 33	1
33-1	1	COMMERCIAL		ACME THREADED ROD 3/4"X 13 3/4" LG		1
33-2	1	COMMERCIAL		NUT		3
33-3	1	COMMERCIAL		ROLL PIN 3/16" X 1 1/4" LG		2

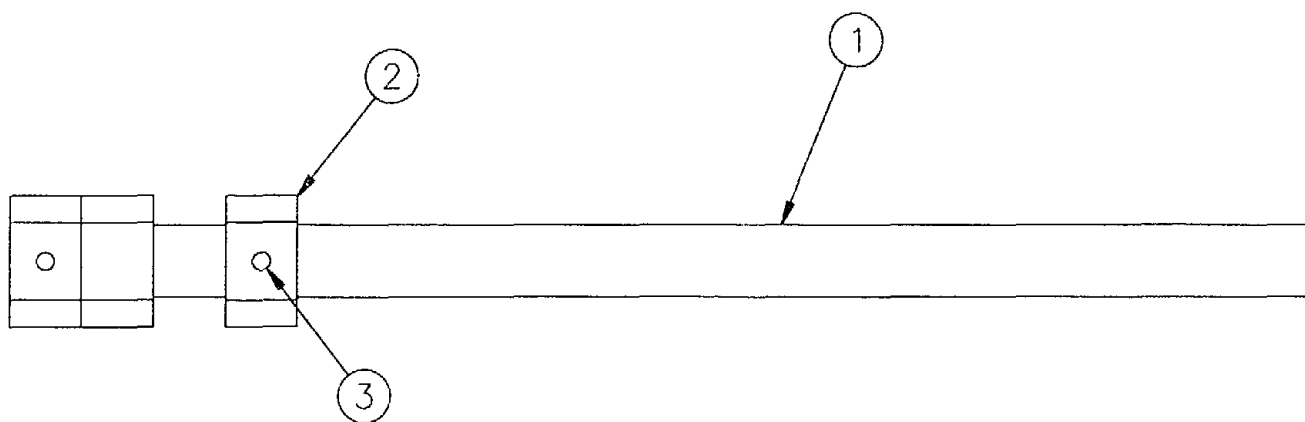


Figure 33-Take Up Rod

FIGURE 34  
TAKE UP ASSEMBLY

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	03-453-92		TAKE UP ASSEMBLY	Fig 34	
34-1	1	03-413-63	3ABO3	TAKE UP OUTER ASSEMBLY		1
34-2	1	MP 03-413-64	3ABO3	TAKE UP ROD	Fig 35	1
34-3	1	MP 03-413-66	3ABO3	TAKE UP INNER ASSEMBLY		1

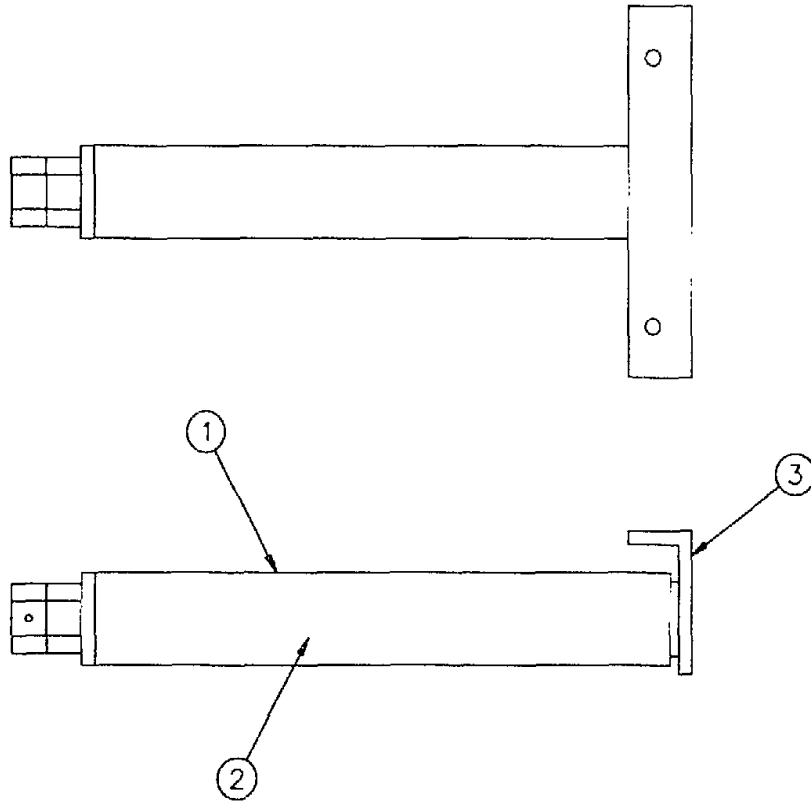


Figure 34-Take Up Assembly

**FIGURE 35  
TAKE UP ROD**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	03-413-64		TAKE UP ROD	Fig 35	1
35-1	1	COMMERCIAL		ACME THREADED ROD 1" X 16 3/4" LG		1
35-2	1	COMMERCIAL		NUT		3
35-3	1	COMMERCIAL		ROLL PIN 3/16" X 1 1/2" LG		2

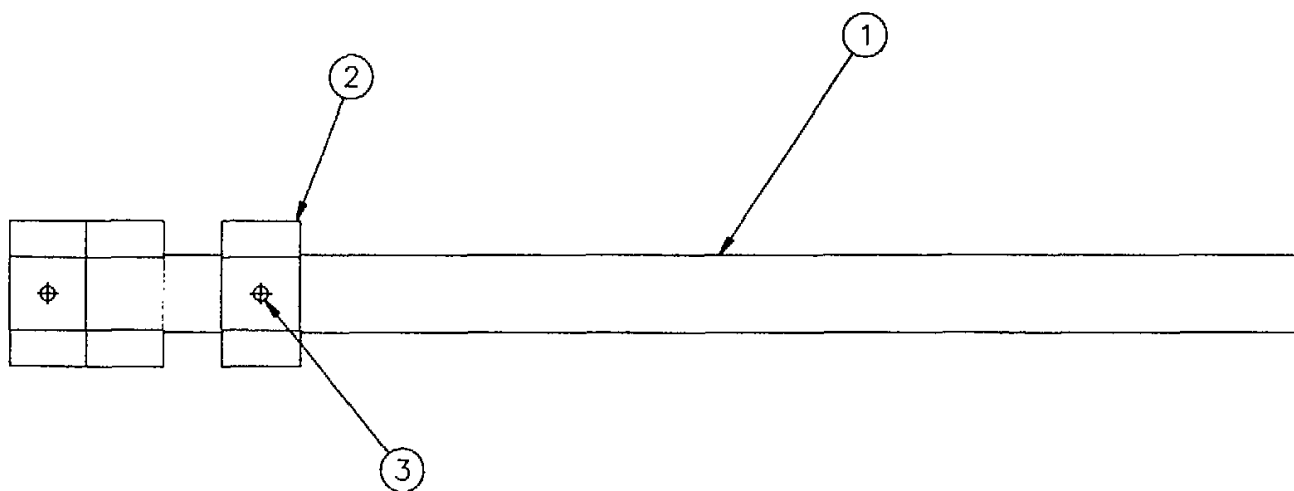
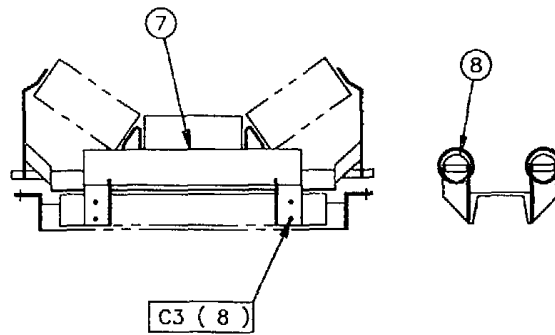
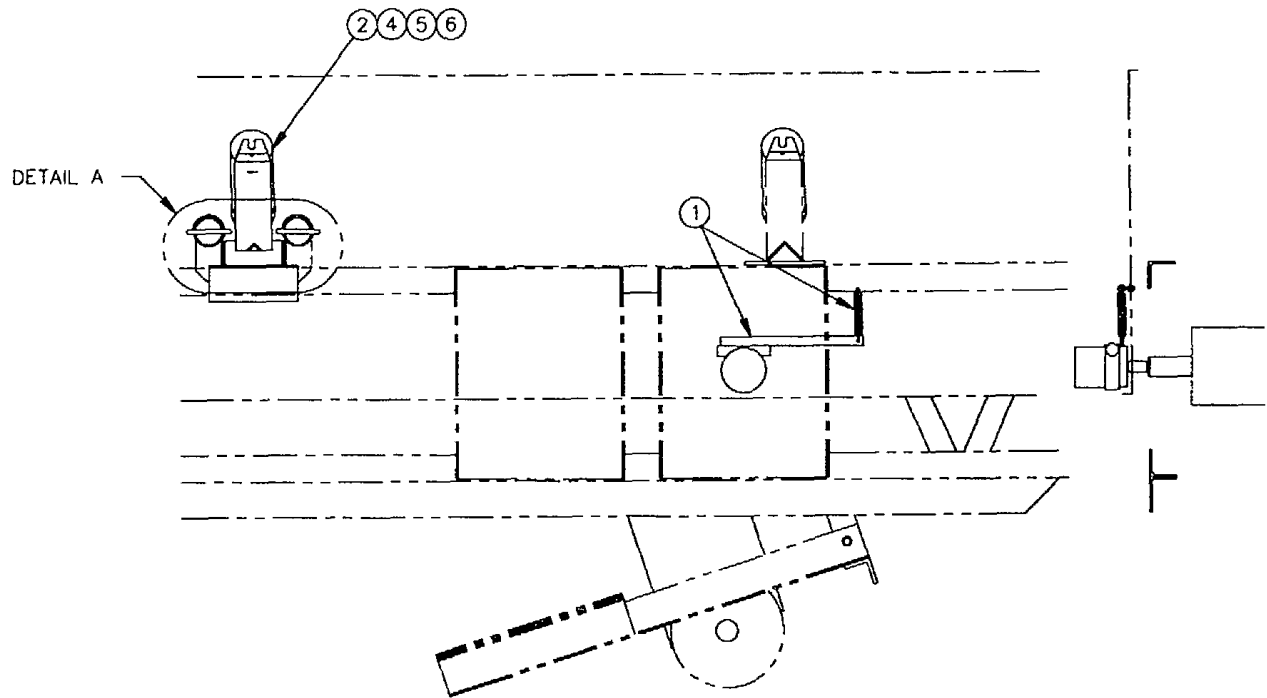


Figure 35-Take Up Rod

**FIGURE 36  
BELT SCALE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-96		BELT SCALE	Fig 36	
36-1	1	TE FFF 60-12C	0WXW3	SPEED PICKUP	Fig C15	1
36-2	1	TE WB-30	0WXW3	WEIGH BRIDGE	Fig C15	1
36-4	1	MP 51-402-62	3ABO3	MODIFIED IDLER BRACKET		1
36-5	1	C5 X-221-66	3ABO3	RETAINER CLIP		6
36-6	1	C5 03-001-03	3ABO3	30" STEEL TROUGH ROLL		3
36-7	1	MP 51-402-26	3ABO3	TEST WEIGHT BRACKET		2
36-8	1	MP 51-402-27	3ABO3	TEST WEIGHT		2
36-C3	1	COMMERCIAL		BOLT 3/8" X 1 1/2" LG, LW		8





DETAIL A

Figure 36-Belt Scale

**FIGURE 37**  
**SPREADER BAR STORAGE**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-452-54		SPREADER BAR STORAGE	Fig 37	
37-1	1	51-452-18	3ABO3	SPREADER BAR		2
37-A6	1	COMMERCIAL		HEX BOLT 5/8" X 5 1/2" LG, LW, FW		2

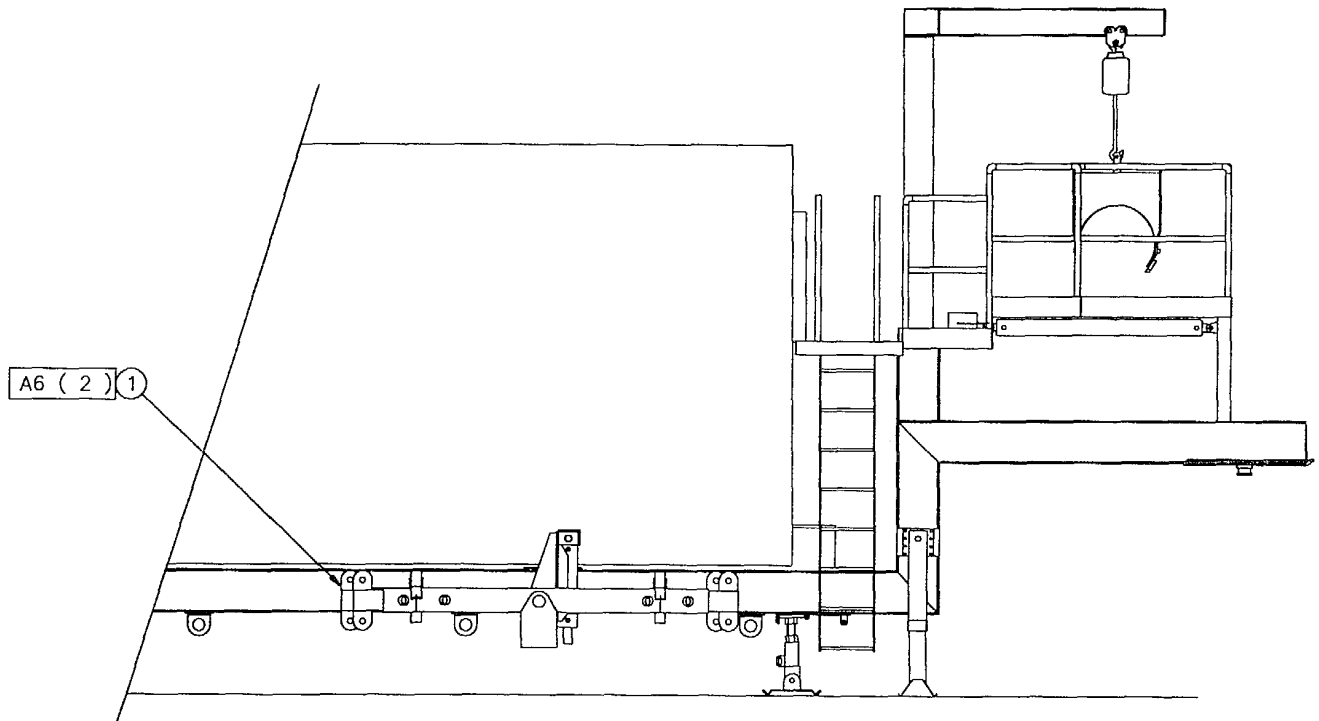


Figure 37-Spreader Bar Storage

**FIGURE 38  
TOW DOLLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	23-450-58		TOW DOLLY	Fig 38	
38-1	1	51-451-75	3ABO3	SUSPENSION ASSEMBLY	Fig 125	1
38-2	1	51-401-99	3ABO3	CHASSIS		1
38-3	1	MP 23-202-02	3ABO3	PIN		2
38-4	1	MP 51-401-00	3ABO3	DOLLY TOW HITCH		1
38-5	1	C2 DB-1249-49	74410	DRAW BAR		1
38-6	1	C2 10-977-31	74410	MUD FLAP		2
38-7	1	C2 10-977-85	3ABO3	MUD FLAP HOLDERS		2
38-8	1	COMMERCIAL		POGO STICK		1
38-9	1	C2 5SM-15-0	89257	LIFT JACK		1
38-11	1	10-450-60	3ABO3	AIR BRAKE SYSTEM	Fig 113	1
38-12	1	61-450-44	3ABO3	ELECTRICAL WIRING 12V AND 24V	Fig 114	1
38-A3	1	COMMERCIAL		BOLT 3/8" X 1 3/4" LG, NL		4
38-B3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW		8
38-C1	1	COMMERCIAL		BOLT 1/4" X 1 1/2" LG, NUT, LW		3

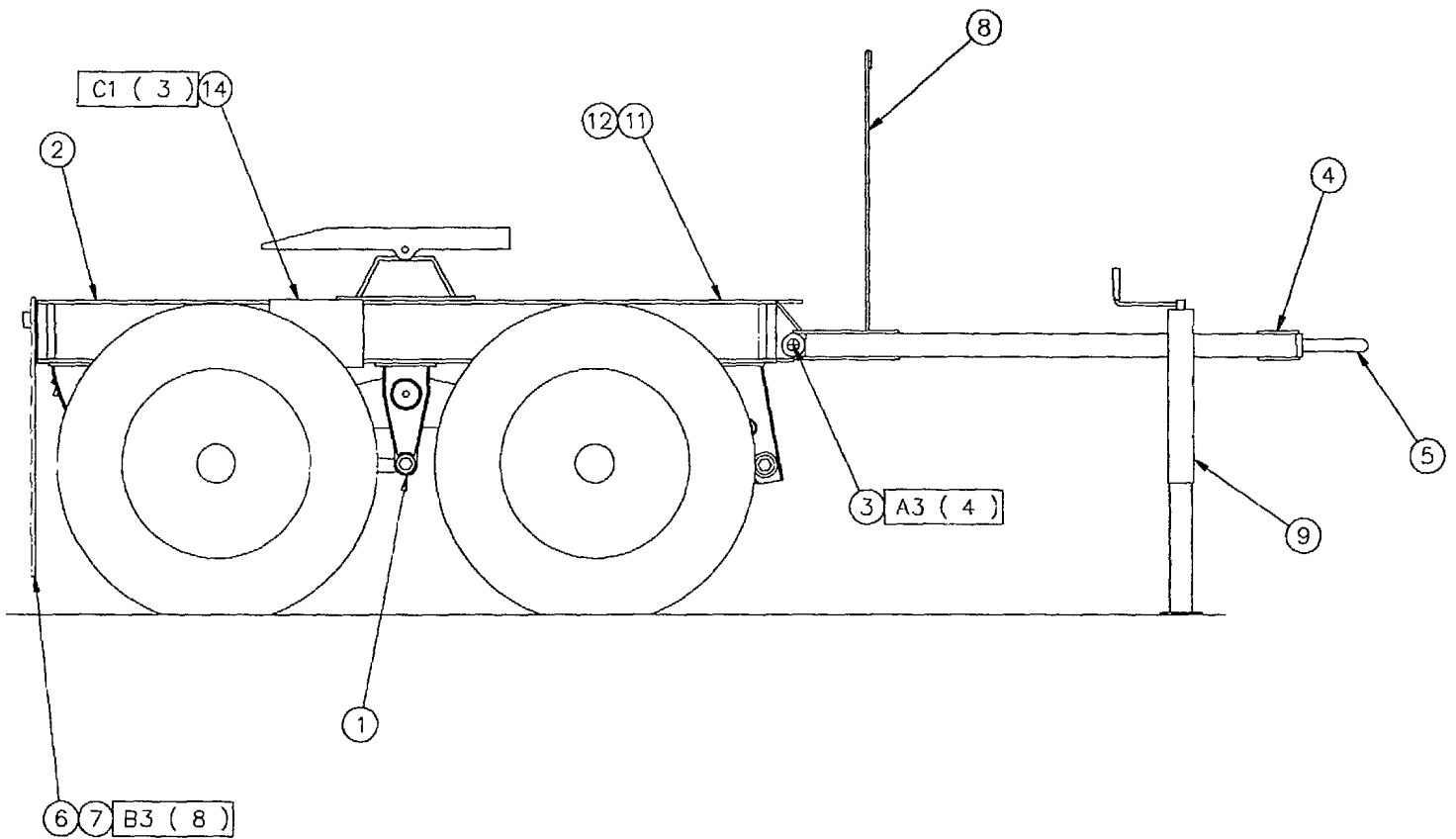


Figure 38-Tow Dolly

**FIGURE 39  
BIN VIBRATOR**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-452-82		BIN VIBRATOR	Fig 39	
39-1	1	06-958-36		VIBRATOR ER630-230/460-3-60		1
39-AO	1	COMMERCIAL		1/2" X 5" BOLT, LW, NUT		4

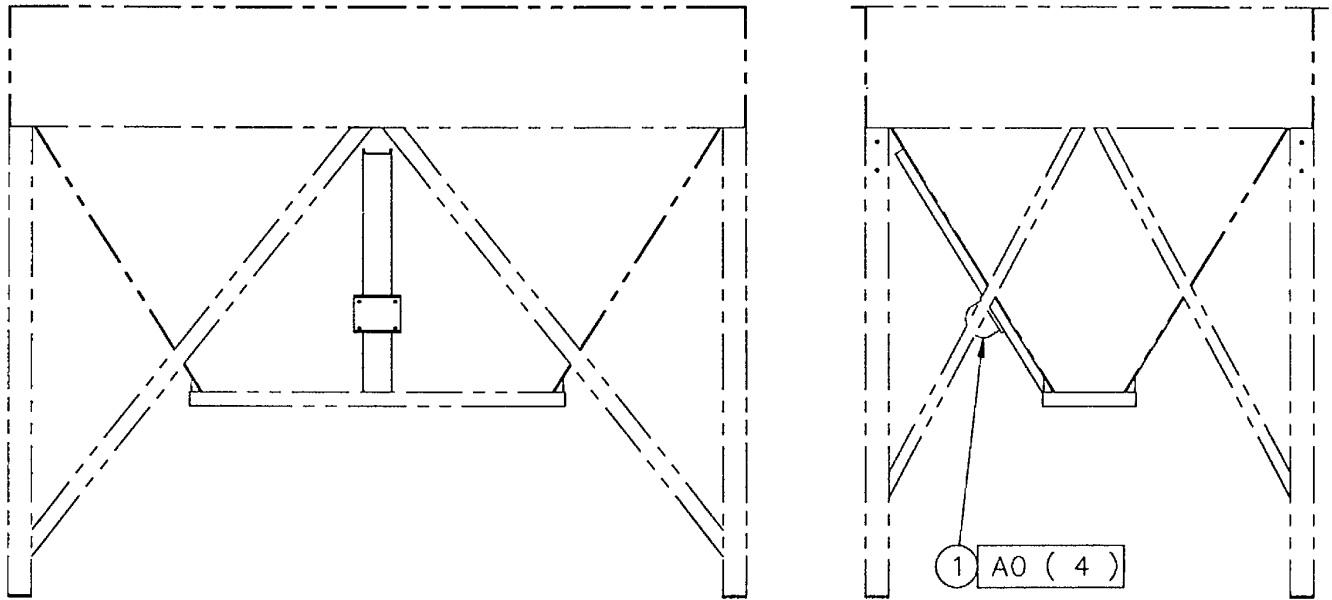


Figure 39 - Bin Vibrator

**FIGURE 40  
BURNER AND BLOWER SUPPORT ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	40-400-23		BURNER AND BLOWER SUPPORT ASSY	Fig 40	1
40-1	1	MP 40-400-24	3ABO3	BREACHING RING MOUNT		1
40-2	1	40-450-23	3ABO3	FEED INLET ASSEMBLY	Fig 56	1
40-3	1	MP 40-400-34	3AB03	BASE FRAME		1
40-4	1	40-400-96	3ABO3	BY-PASS CHUTE EXTENSION		1
40-A7	1	COMMERCIAL		BOLT 3/4" X 1 3/4", NUT, LW, FW (2)		2
40-B5	1	COMMERCIAL		BOLT 1/2" X 1" LG, NUT, LW		8
40-C7	1	COMMERCIAL		BOLT 3/4" X 4" LG, NUT, LW,		1



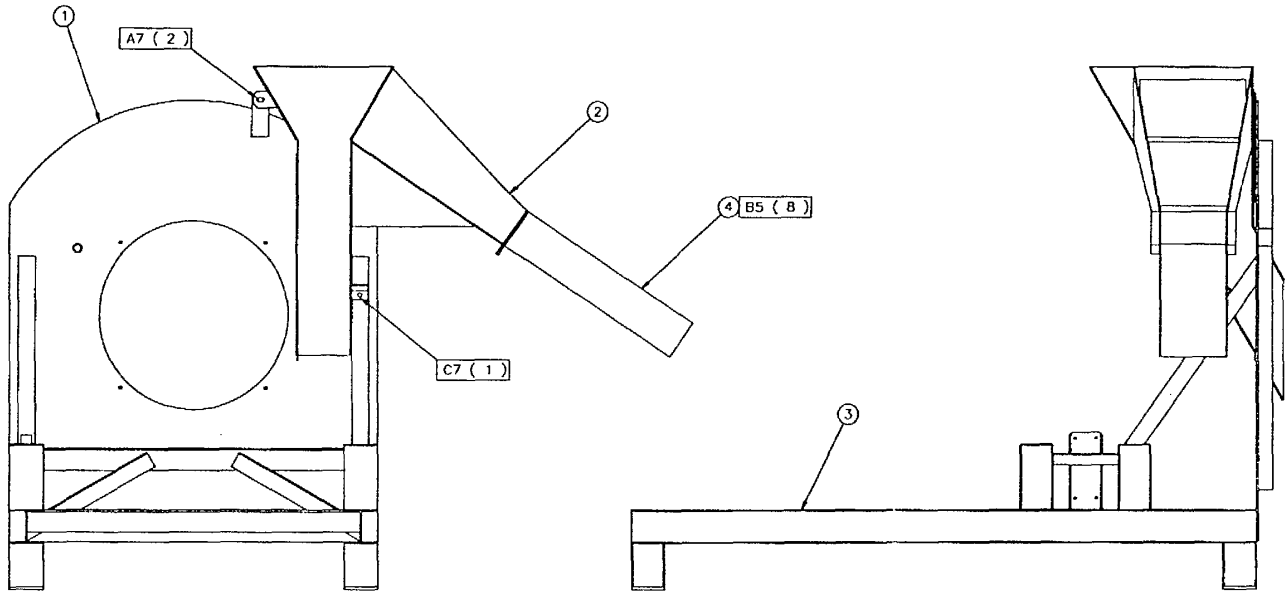


Figure 40-Burner and Blower Support Assembly

**FIGURE 41  
DRUM FLIGHTING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREA K DOWN FIGUR E	UNITS PER ASSY.
	0	40-450-07		DRUM FLIGHTING	Fig 41	1
41-1	1	MP 40-101-11	3AB03	COMBUSTION FLIGHT		13
41-2	1	MP 40-101-13	3AB03	FLIGHT		113
41-3	1	MP 40-101-15	3AB03	SCRAPER FACE PLATE		20
41-A7	1	COMMERCIAL		BOLT 3/4" X 1 3/4" LG, SL		26
41-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, SL		452
41-C6	1	COMMERCIAL		BOLT 5/8" X 2" LG, SL, FW		54

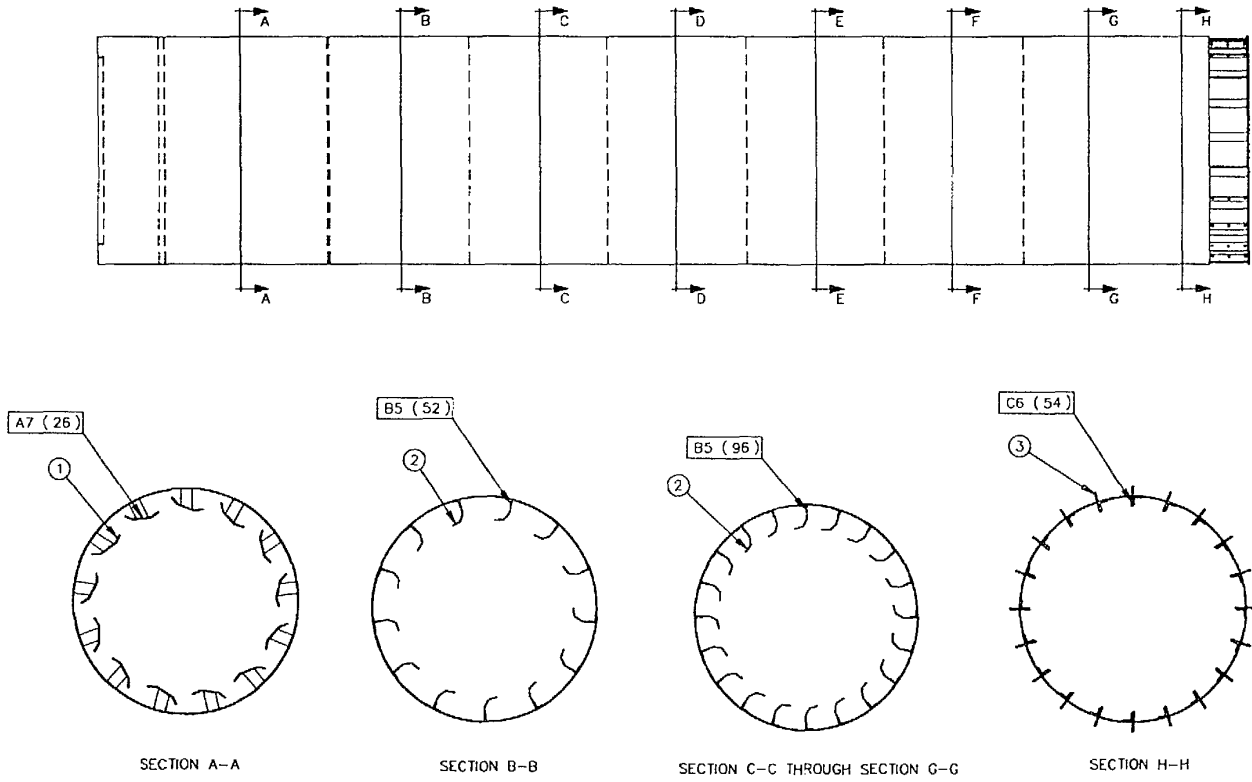


Figure 41 - Drum Flighting

**FIGURE 42  
SURGE BIN HYDRAULIC**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-36		SURGE BIN HYDRAULIC	Fig 42	
42-1	1	H2 2083-12-8S	01276	3/4" MALE NPT-1/2" NPT MALE		4
42-2	1	H2 2068-8-8S	01276	1/2" MALE ORB-1/2" NPT FEM SWIV X 90 DEG		18
42-3	1	H2 2066-8-6S	01276	3/8" MALE ORB-1/2" NPT FEM SWIVEL		4
42-4	1	H2 2085-8-8S	01276	1/2" MALE NPT-1/2" NPT MALE X 90 DEG		6
42-5	1	H2 2255-8-8S	01276	1/2" NPT FEM SWIV TEE		7
42-6	1	H2 2066-12-8S	01276	1/2" MALE ORB-3/4" NPT FEM SWIVEL		2
42-7	1	H2 2066-8-8S	01276	1/2" MALE ORB-1/2" NPT FEM SWIVEL		3
42-8	1	H2 2047-8-8S	01276	1/2" MALE NPT-1/2" NPT FEM SWIV X 90 DEG		8
42-9	1	H2 2083-20-20S	01276	1 1/4" MALE NPT-1 1/4" NPT MALE		2
42-11	1	H2 2066-16-16S	01276	1" MALE ORB-1" NPT FEM SWIVEL		1
42-12	1	H2 2068-20-20S	01276	1 1/4" MALE ORB-1 1/4" NPT FEM SWIV X 90 DEG		1
42-13	1	H2 2092-12-12S	01276	3/4" MALE NPT-3/4" NPT FEM NPT FEM. -3/4"		1
42-14	1	H2 2081-12-4S	01276	3/4" MALE NPT-1/4" NPT FEM		1
42-16	1	H2 2024-8-8S	01276	1/2" MALE JIC-1/2" NPT MALE X 90 DEG		2
42-17	1	H2 2062-8-8S	01276	1/2" MALE JIC-1/2" ORB MALE X 90 DEG		2
42-18	1	4'- 0" 3/4"X3/4"	COMM	HYDRAULIC HOSE NPT		1
42-19	1	2'- 6" 3/4"X3/4"	COMM	HYDRAULIC HOSE NPT		1
42-20	1	16'- 9" 1 1/4"X1	COMM	HYDRAULIC HOSE 1/4" NPT		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
42-21	1	2'- 0" 1/2"X1/2"	COMM	HYDRAULIC HOSE NPT		4
42-22	1	4'- 6" 1/2"X1/2"	COMM	HYDRAULIC HOSE NPT		4
42-23	1	22'- 10" 1/2"X1/2"	COMM	HYDRAULIC HOSE NPT		4
42-24	1	5'- 3" 1/2"X1/2"	COMM	HYDRAULIC HOSE NPT		4
42-25	1	10'- 6" 1/2"X1/2"	COMM	HYDRAULIC HOSE NPT		2
42-26	1	1'- 8" 1/2"X1/2"	COMM	HYDRAULIC HOSE NPT		2
42-27	1	7'- 6" 1/2"X1/2"	COMM	HYDRAULIC HOSE NPT		2
42-28	1	H2 TM25-100	59838	SUCTION STRAINER		1
42-29	1	H2	09990	PRESSURE GUAGE MPG-1P-3000-A		1
42-30	1	H2	19184	THREE BANK VALVE34BFT4S-FT4S-FT4S		1
42-31	1	H2	1M212	FLOWDIVIDER FSDS-XAN-NMJ		3
42-32	1	H2	1M212	COUNTER BALANCE VALVE CBCA-LHN-LECJ		4
42-33	1	H2 03-950-24	3ABO3	TELESCOPING CYLINDER	Fig 107	4
42-34	1	H2 03-950-25	3ABO3	HYDRAULIC CYLINDER 6" X 65"	Fig 112	2
42-35	1	H2 F800S	09990	FLOW CONTROL VALVE		2
42-36	1	H2 90-938-24	3ABO3	HYDRAULIC FILTER		1
42-39	1	H2 2081-20-12S	01276	1 1/4" NPT MALE-3/4" NPT FEMALE		1
42-40	1	COMMERCIAL		2"-1 1/4" BUSHING ADAPTER		1
42-41	1	COMMERCIAL		1 1/4" BALL VALVE		1
42-42	1		3ABO3	1/2" HYDRAULIC TUBE C1290-8S FLARE NUT AND 900605-8S SLEEVE LENGTH AS REQUIRED		4
42-43	1	H2 PCCK800S	09990	FLOW CONTROL		2
42-44	1	2021-8-85	01276	1/2" NPT MALE, 1/2" JIC MALE NIPPLE		2

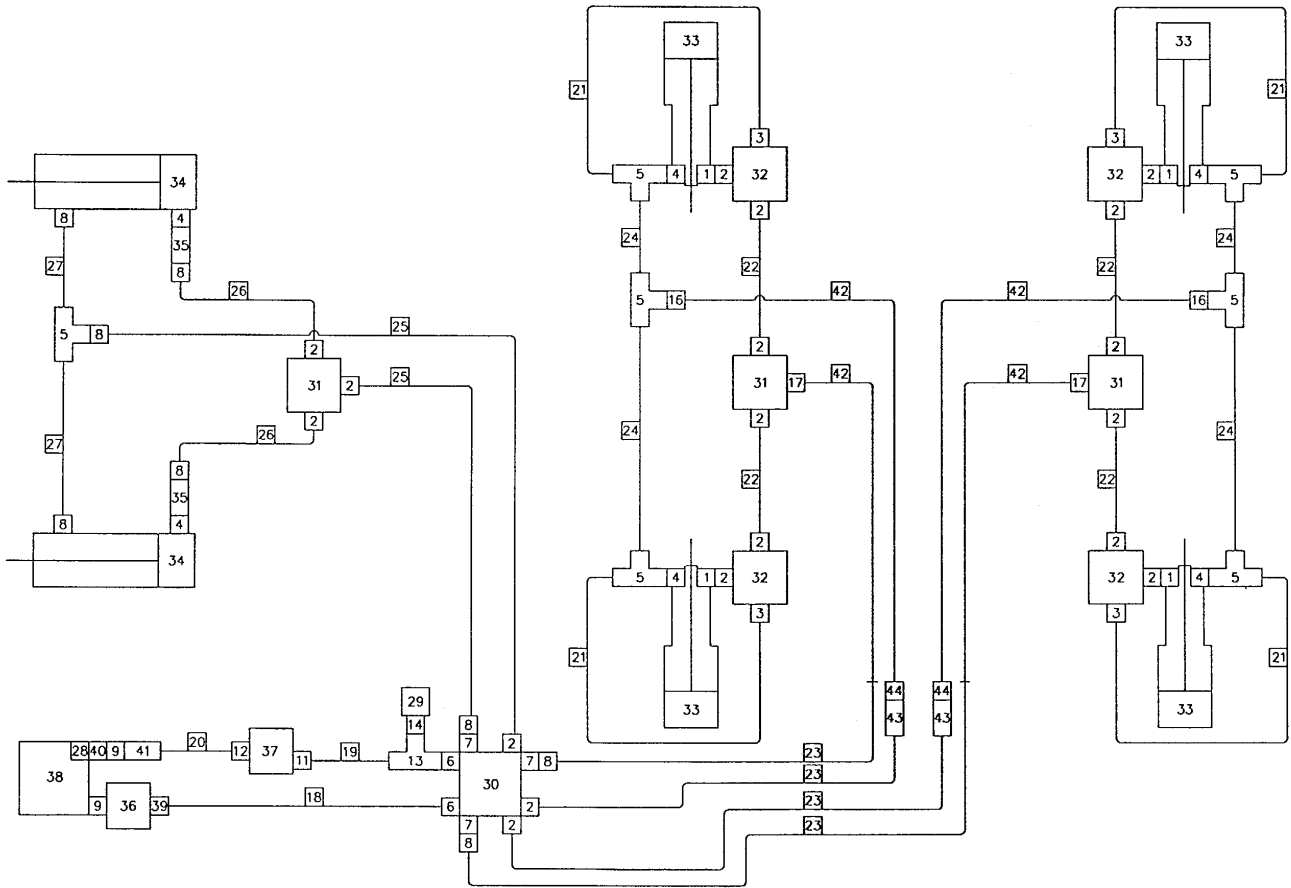


Figure 42 - Surge Bin Hydraulic

**FIGURE 43  
DRUM DRIVE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-09		DRUM DRIVE	Fig 43	1
43-1	1	S2 40-400-16	3ABO3	DRUM SPROCKET		1
43-2	1	S2 40-400-17	3ABO3	IDLER SPROCKET 12 TOOTH		1
43-3	1	S2 40-400-18	3ABO3	DRIVE SPROCKET 12 TOOTH		1
43-4	1	MP 40-202-02	3AB03	DRIVE SHAFT		1
43-5	1	MP X-273-531	3ABO3	IDLER SHAFT		1
43-6	1	MP 40-400-36	3ABO3	BEARING ADJ BRACKET		1
43-7	1	40-400-87	3ABO3	CHAIN OILER RESERVOIR		1
43-8	1	MP 40-400-74	3ABO3	DRIVE GUARD		1
43-9	1	MP 40-400-75	3ABO3	DRIVE GUARD		1
43-10	1	MP 40-400-76	3ABO3	IDLER GUARD		1
43-11	1	D2 248280	71956	TXT825 REDUCER	Fig C6	1
43-12	1	D2 272033	71956	TDT8 BUSHING KIT		1
43-13	1	E3 KM256	36232	50HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
43-14	1	S2 RO1245	OWXN7	ROLLER CHAIN X 64 PITCHES		1
43-15	1	B2 SAFD 22522 X 3 15/16	52676	PILLOW BLOCK BEARING FIXED 4 BOLT		1
43-16	1	B2 SAFD 22522 X 3 15/16	52676	PILLOW BLOCK BEARING FLOATING		1
43-17	1	B2 SAFD 22515 X 2 7/16	52676	PILLOW BLOCK BEARING FIXED 2		1
43-18	1	B2 SAFD 22515 X 2 7/16	52676	PILLOW BLOCK BEARING FLOATING 2 BOLT		1
43-19	1	W3 5VX800	8D709	DRIVE BELT		3
43-20	1	W2 5V9.75-3-SF	8D709	SHEAVE		1
43-21	1	W2 SF X 2 1/8	8D709	BUSHING		1
43-22	1	W2 5V14.0-3-E	8D709	SHEAVE		1
43-23	1	W2 E X 2 7/16	8D709	BUSHING E X 2 7/16" BORE		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
43-25	1	MP 40-400-37	3ABO3	CHAIN GUIDE		1
43-26	1	MP 40-400-38	3ABO3	CHAIN TAKE UP ADJUSTMENT ROD		2
43-27	1	MP 40-400-39	3ABO3	BEARING ADJUSTMENT BRACKET		1
43-28	1	MP 40-400-88	3ABO3	CHAIN GUARD		2
43-29	1	MP 40-400-89	3ABO3	CHAIN GUARD		2
43-30	1	MP 40-400-90	3ABO3	LOWER CHAIN GUARD		1
43-31	1	MP 40-100-01	3ABO3	SLOT COVER PLATE		4
43-32	1	40-450-30	3ABO3	CHAIN OILER ASSEMBLY	Fig 147	1
43-A7	1	COMMERCIAL		BOLT 3/4" X 1 3/4" LG, NUT, LW		6
43-B7	1	COMMERCIAL		BOLT 3/4" X 2 1/4" LG, NUT, LW		4
43-C7	1	COMMERCIAL		BOLT 3/4" X 3" LG, NUT, LW, FW		8
43-D6	1	COMMERCIAL		BOLT 5/8" X 2 1/2" LG, NUT, LW, FW		4
43-E7	1	COMMERCIAL		BOLT 3/4" X 2 1/4" LG, NUT, LW, FW		4
43-F7	1	COMMERCIAL		BOLT 3/4" X 2" LG, SL		48
43-G7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW, FW		2
43-HO	1	COMMERCIAL		NUT 1" UNC		2
43-LO	1	COMMERCIAL		SQUARE HEAD SET SCREW 3/4" X3" LG, JN		4
43-MO	1	COMMERCIAL		SQUARE HEAD SET SCREW 5/8" X 2 1/2" LG, JN		4
43-N3	1	COMMERCIAL		BOLT 3/8" X 3/4" LG, LW, FW		48
43-P3	1	COMMERCIAL		BOLT 3/8" X 3/4" LG, LW, FW		8



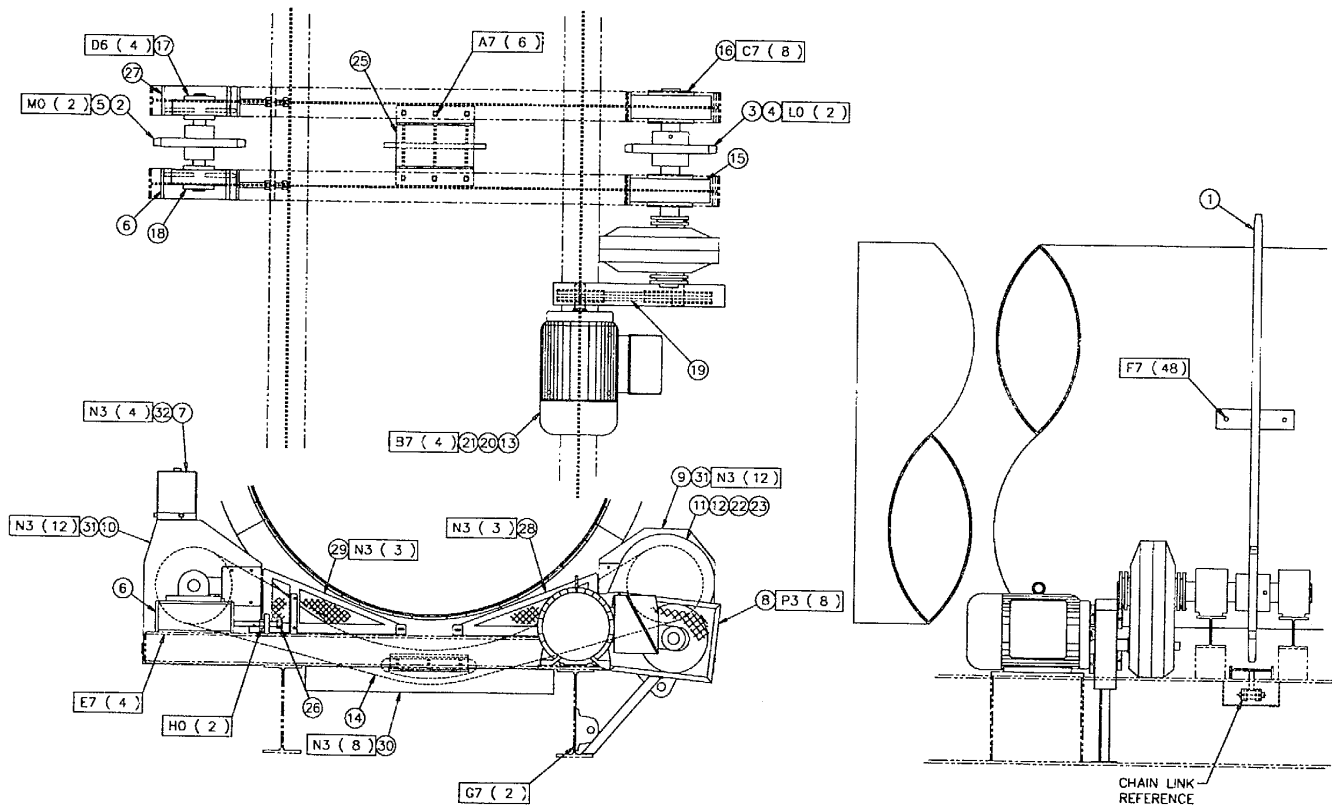


Figure 43 - Drum Drive

**FIGURE 44**  
**TRUNNION/GUIDE WHEEL ASSEMBLY (REAR)**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-10		TRUNNION/GUIDE WHEEL ASSEMBLY (REAR)	Fig 44	1
44-1	1	AP X-273-437	3ABO3	TRUNNION		2
44-2	1	MP X-273-566	3ABO3	GUIDE WHEEL		2
44-3	1	MP X-273-565	3ABO3	GUIDE WHEEL SHAFT		2
44-4	1	MP X-273-564	3ABO3	TRUNNION WHEEL ADJUSTMENT ROD		2
44-5	1	B2 SAFD 22518 X3 3/16	52676	PILLOW BLOCK BEARING FIXED 4 BOLT		2
44-6	1	B2 SAFD 22518 X 3 3/16	52676	PILLOW BLOCK BEARING FLOATING 4 BOLT		2
44-7	1	B2 SAF 22513 X 2 3/16	52676	PILLOW BLOCK BEARING FIXED 2 BOLT		2
44-8	1	B2 SAF 22513 X 2 3/16	52676	PILLOW BLOCK BEARING FLOATING 2 BOLT		2
44-9	1	MP 40-400-79	3ABO3	TRUNNION GUARD		2
44-10	1	MP 40-400-85	3ABO3	GUIDE WHEEL GUARD		2
44-A6	1	COMMERCIAL		BOLT 5/8" X 3 1/4" LG, NUT, LW, FW (2)		16
44-B6	1	COMMERCIAL		BOLT 5/8" X 2 1/4" LG, NUT, LW, FW		8
44-C3	1	COMMERCIAL		BOLT 3/8" X 1" LG, LW, FW		16

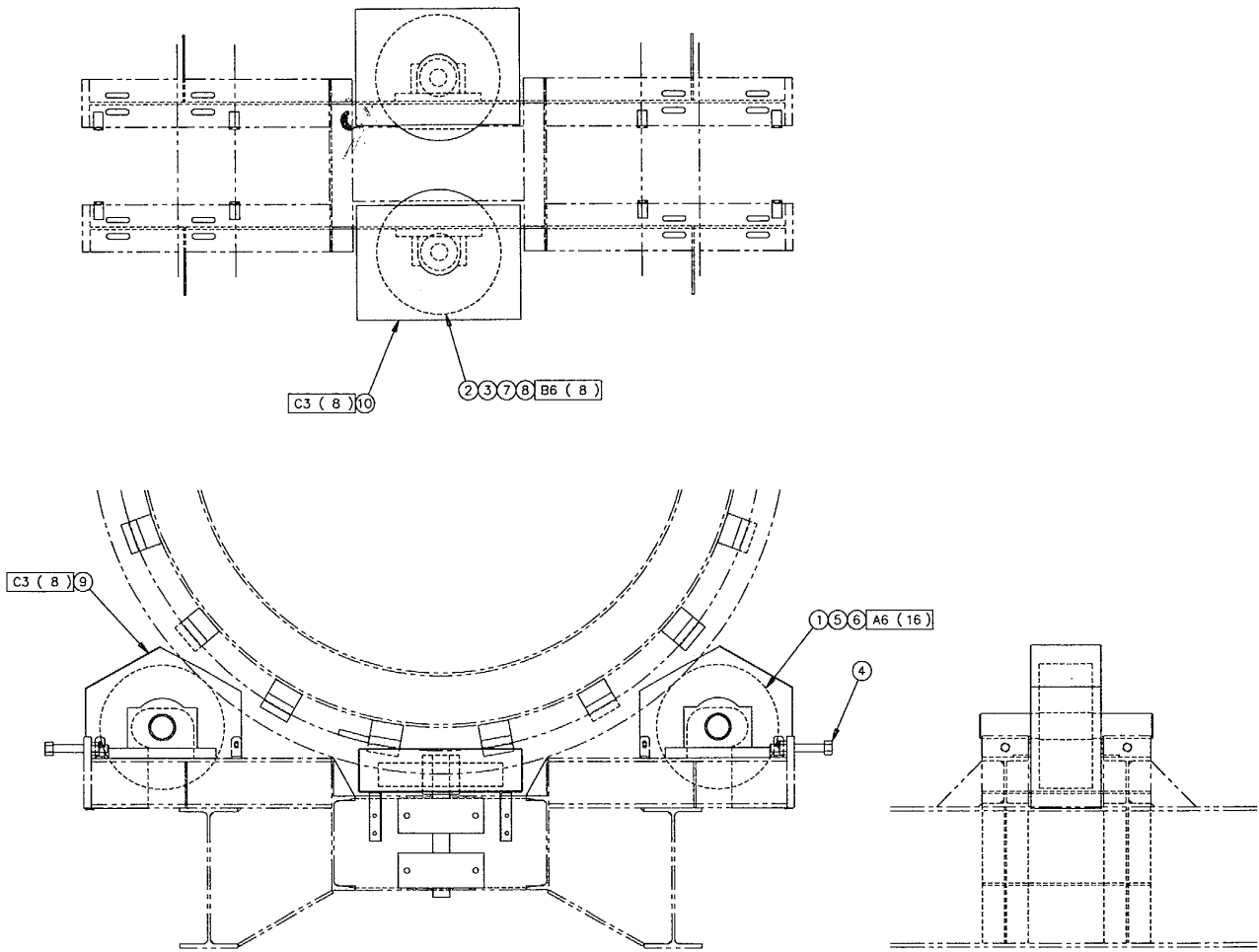


Figure 44 - Trunnion/Guide Wheel Assembly (Rear)

**FIGURE 45  
BURNER AND BLOWER ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	40-450-11		BURNER & BLOWER ASSEMBLY	Fig 45	1
45-1	1	AP SJO4260E- 111-0612-1-00-	OWXN8	BURNER	Fig C1	1
45-2	1	AP TBA36-50-T	OWXN8	BLOWER	Fig C1	1
45-4	1	40-400-23	3ABO3	BURNER AND BLOWER SUPPORT ASSY	Fig 40	1
45-5	1	MP 40-400-10	3ABO3	BREACHING RING		1
45-6	1	40-450-40	3ABO3	PRESSURE TRANSMITTER PIPING	Fig 196	1
45-7	1	40-450-41	3ABO3	FUEL OIL PIPING	Fig 153	1
45-8	1	40-450-42	3AB03	PILOT LIGHT PIPING	Fig 154	1
45-9	1	COMMERCIAL		PROPANE TANK 20 LB		1
45-10	1	COMMERCIAL		REGULATOR 800 HPS1		1
45-A7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, SL		4
45-B5	1	COMMERCIAL		BOLT 1/2" X 2 1/2" LG, NUT, LW		4
45-C5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG STAINLESS, NUT, LW		4
45-D1	1	COMMERCIAL		BOLT 1/4" X 2 1/2" LG, LW		2

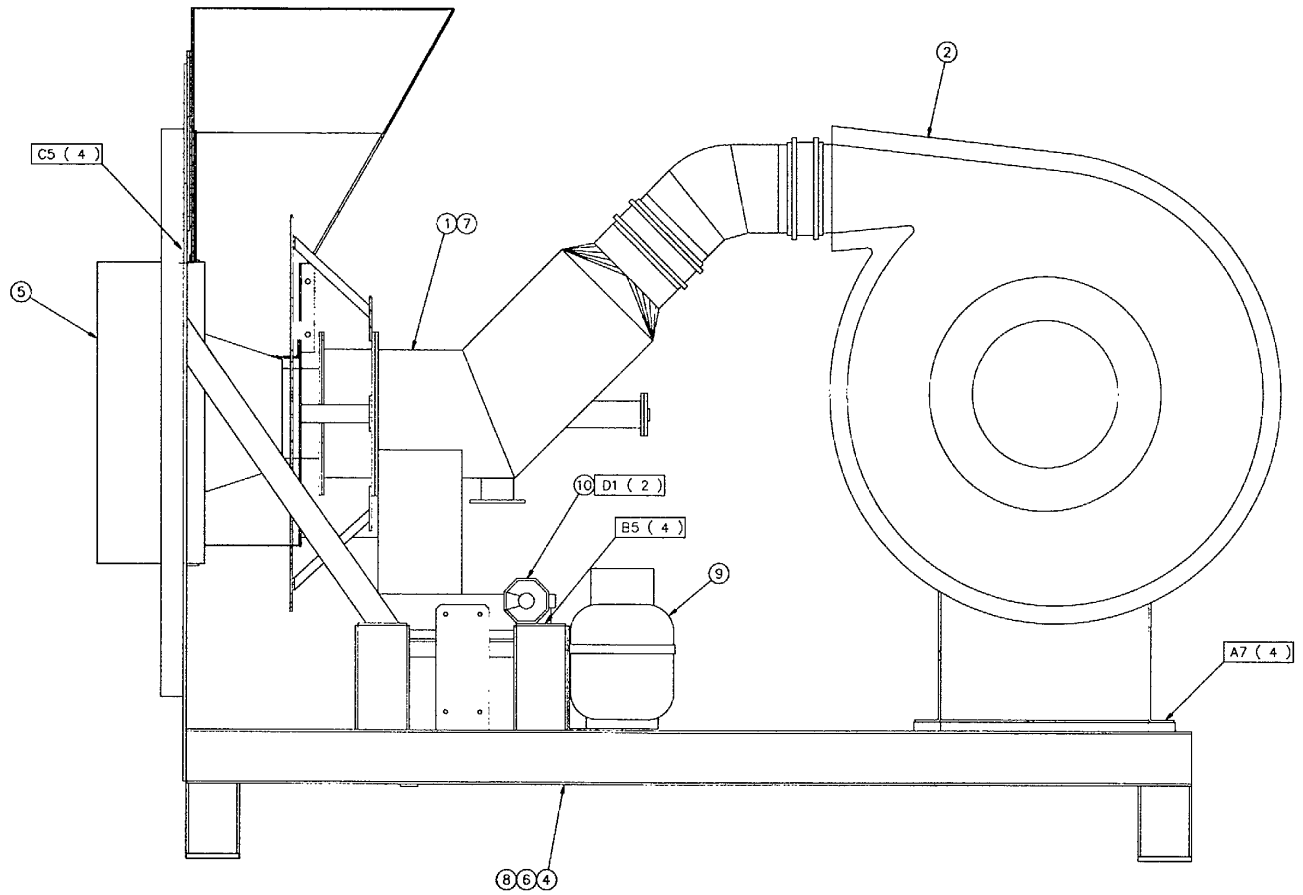


Figure 45 - Burner and Blower Assembly

**FIGURE 46  
HYDRAULIC POWER PACK MECHANICAL**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	90-452-29		HYDRAULIC POWER PACK MECHANICAL	Fig 46	
46-1	1	E3 KM156	36232	10HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
46-2	1	H2 ABB-40N	59838	BREATHER		1
46-3	1	H2 LG-5	59838	LEVEL SIGHT GAUGE		1
46-4	1	W3 7S X 3/4	8D709	COUPLING		1
46-5	1	W3 7S X 1 3/8	8D709	COUPLING		1
46-6	1	W3 7E	8D709	SLEEVE		1
46-7	1	H2 92-812-74	8D709	MAGNETIC PLUG 3/4"		1
46-8	1	90-400-74	3ABO3	HYDRAULIC RESERVOIR		1
46-9	1	MP 51-100-13	3ABO3	COUPLING GUARD		1
46-10	1	V10-2S4S-1C	62983	HYDRAULIC PUMP		1
46-11	1	51-111-12	3ABO3	JUNCTION BOX MOUNT		1
46-A3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW		8
46-B3	1	COMMERCIAL		BOLT 3/8" X 1 1/4" LG, NUT, LW, FW		8
46-C3	1	COMMERCIAL		BOLT 3/8" X 1 1/4" LG, NUT, LW		2
46-D1	1	COMMERCIAL		BOLT 1/4" X 3/4" LG, NUT, LW		2
46-E1	1	COMMERCIAL		BOLT 1/4" X 1 1/4" LG, NUT, LW, FW		2

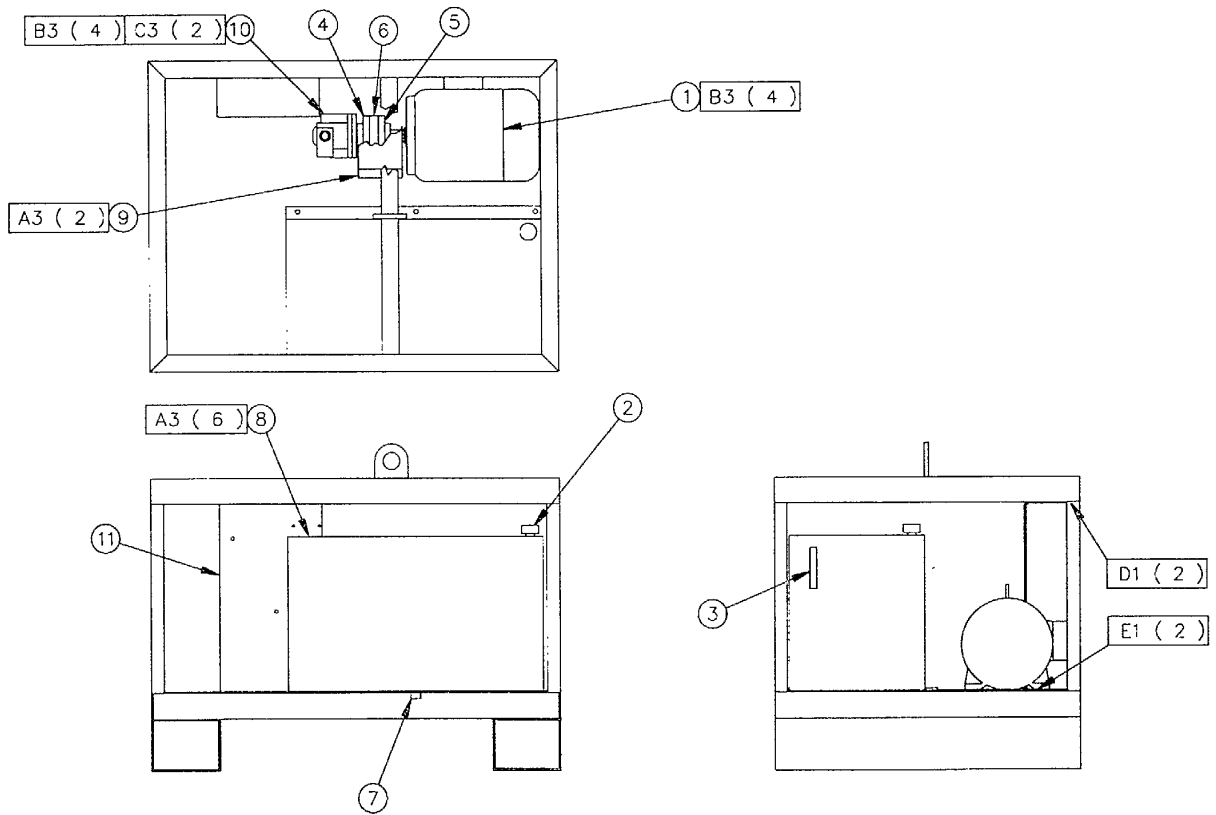


Figure 46 - Hydraulic Power Pack Mechanical

**FIGURE 47  
TRUNNION ASSEMBLY (FRONT)**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	40-450-13		TRUNNION ASSEMBLY (FRONT)	Fig 47	1
47-1	1	AP X-273-437	3ABO3	TRUNNION		2
47-2	1	MP X-273-564	3ABO3	TRUNNION WHEEL ADJUSTMENT ROD		2
47-3	1	B2 SAFD 22518 X3 3/16	52676	PILLOW BLOCK BEARING FIXED 4 BOLT		2
47-4	1	B2 SAFD 22518 X3 3/16	52676	PILLOW BLOCK BEARING FLOATING4 BOLT		2
47-5	1	MP 40-400-79	3ABO3	TRUNNION GUARD		2
47-A6	1	COMMERCIAL		BOLT 5/8" X 3 1/4" LG, NUT, LW, FW (2)		16
47-C3	1	COMMERCIAL		BOLT 3/8" X 1" LG, LW, FW		8



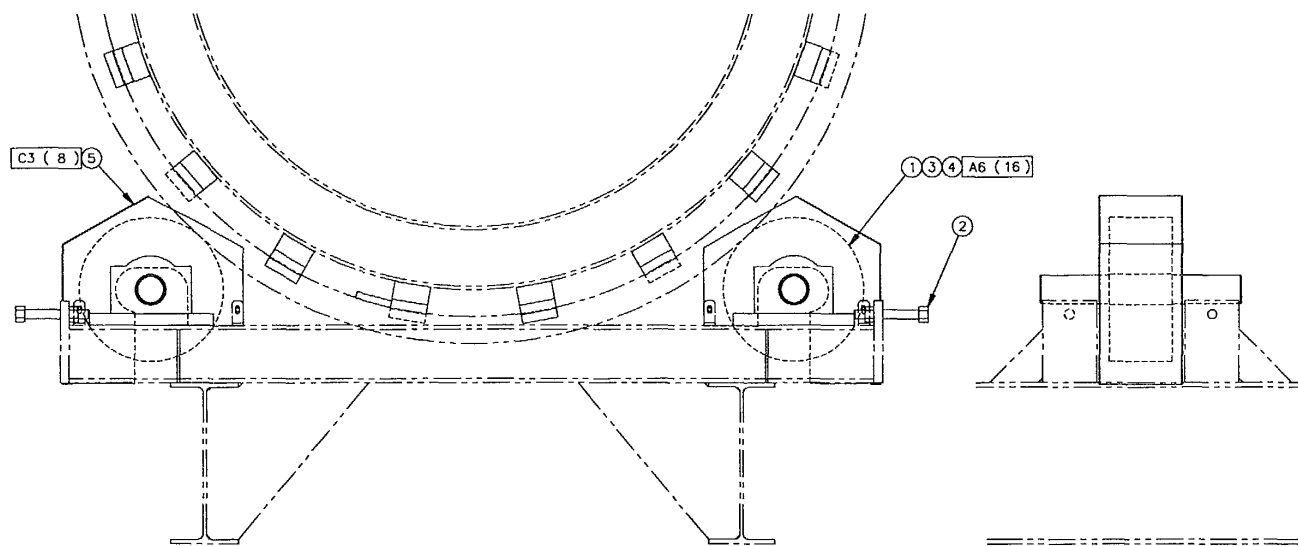


Figure 47 - Trunnion Assembly (Front)

**FIGURE 48  
DISCHARGE ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-15		DISCHARGE ASSEMBLY	Fig 48	1
48-1	1	MP 40-400-40	3ABO3	DISCHARGE ASSEMBLY		1
48-2	1	MP 40-400-44	3ABO3	CHUTE		1
48-3	1	MP 40-202-05	3ABO3	SHAFT		1
48-4	1	MP 40-101-25	3ABO3	LOWER DISCHARGE LINER		1
48-5	1	MP 40-101-26	3ABO3	BOTTOM LINER		1
48-6	1	MP 40-101-27	3ABO3	SIDE LINER		1
48-7	1	MP 40-101-28	3ABO3	SIDE LINER		1
48-8	1	MP 40-400-49	3ABO3	ACCESS DOOR		1
48-9	1	MP 40-202-06	3ABO3	SHAFT ACCESS DOOR		1
48-10	1	MP 40-101-32	3ABO3	ACCESS DOOR TAB		4
48-11	1	40-400-98	3ABO3	ASPHALT TRANSFER PIPE SUPPORT		1
48-A0	1	COMMERCIAL		COTTER PIN 1/4" X 1 1/2" LG		2
48-B5	1	COMMERCIAL		FLAT HEAD SET SCREW 1/2" X 1 1/2" LG, NUT, LW		16
48-C5	1	COMMERCIAL		FLAT HEAD SET SCREW 1/2" X 1 1/2" LG, NUT, LW	14	
48-D3	1	COMMERCIAL		7/16" NUT, LW, FW		4
48-E0	1	COMMERCIAL		COTTER PIN 1/8" X 1" LG		2
48-F5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, LW, NUT		2

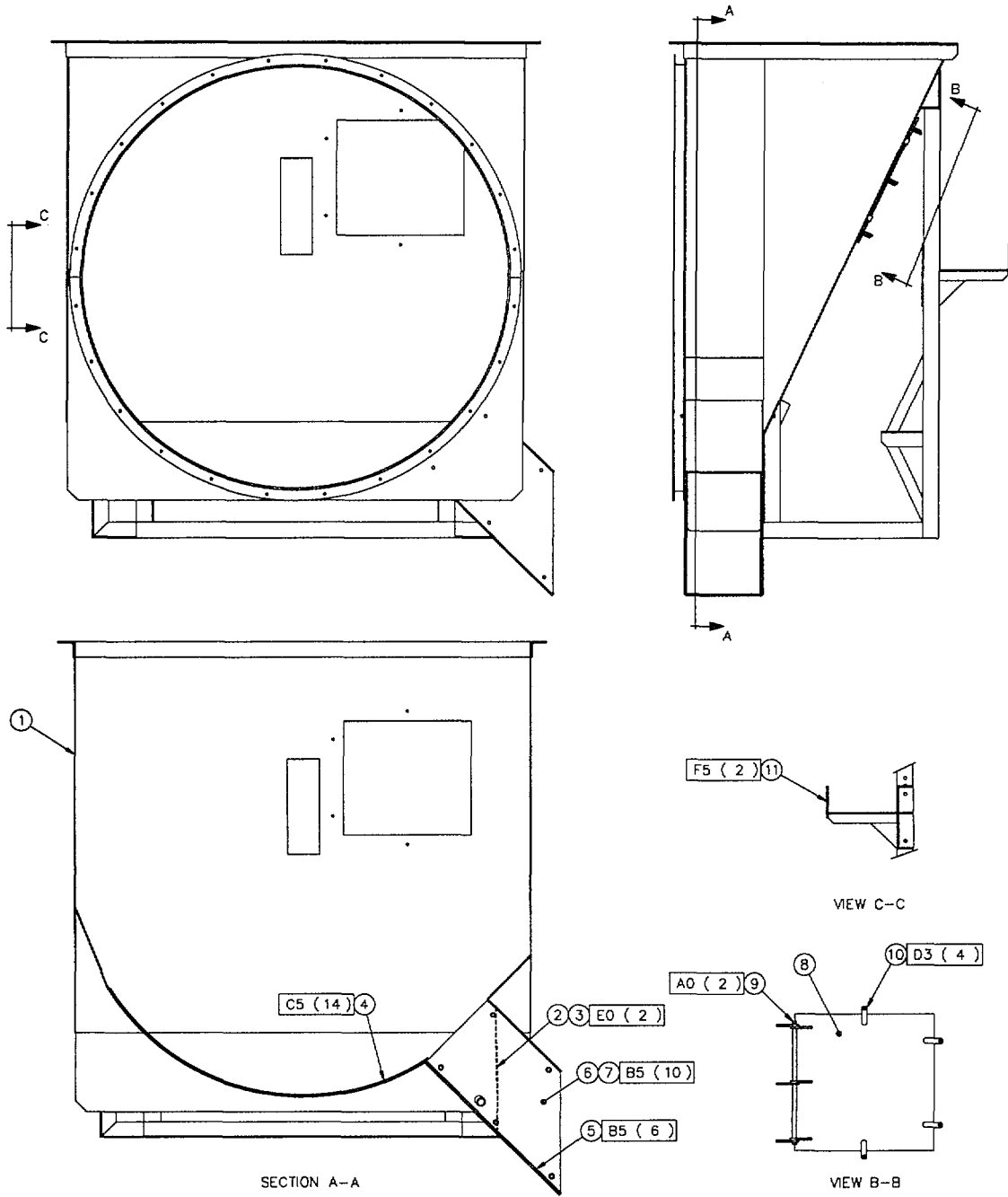


Figure 48 - Discharge Assembly

**FIGURE 49  
DRUM SEAL ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNIT S PER ASSY</b>
	0	40-450-16		DRUM SEAL ASSEMBLY	Fig 49	1
49-1	1	40-904-01	3ABO03	DRUM/DISCHARGE SEAL		8
49-2	1	40-101-22	3ABO3	SEAL CLAMP		8
49-A3	1	COMMERCIAL		BOLT 3/18" X 1 1/2" LG, SL		24

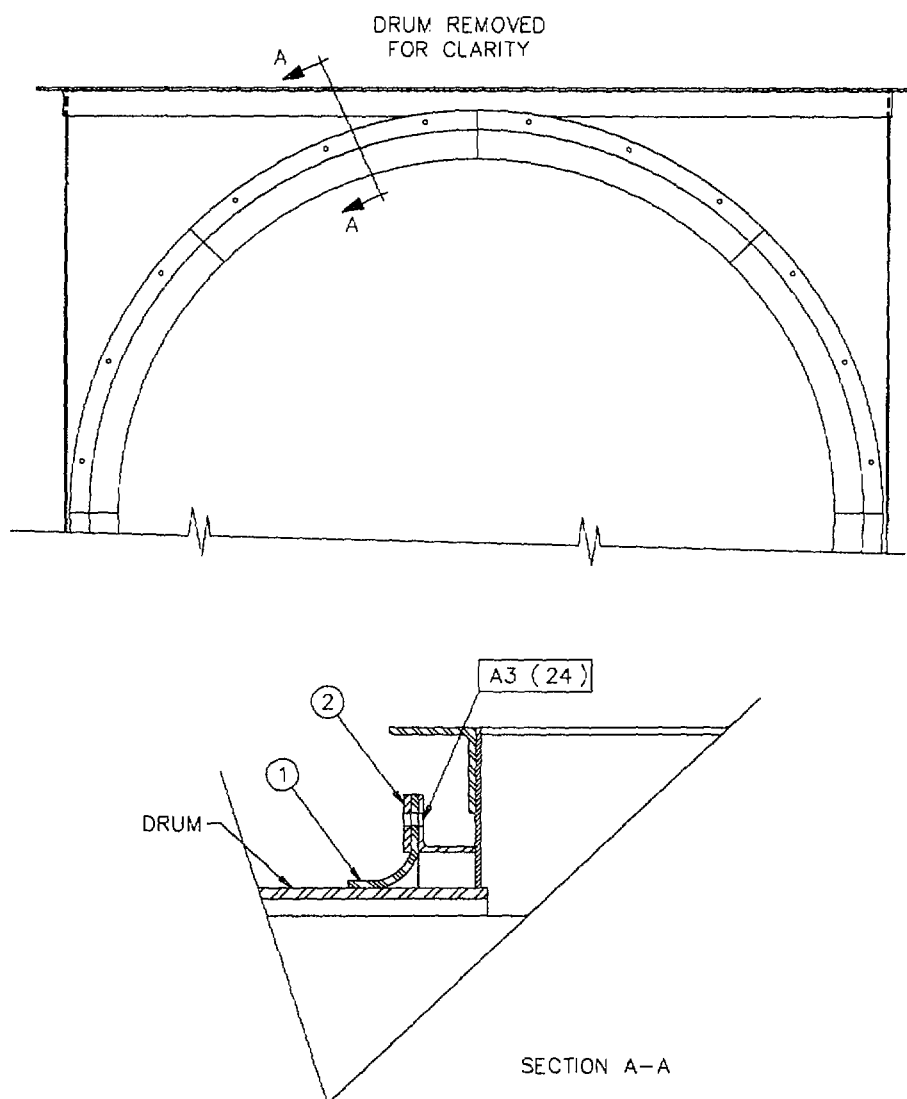


Figure 49 - Drum Seal Assembly

**FIGURE 50  
SUSPENSION ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	40-450-17		SUSPENSION ASSEMBLY	Fig 50	1
50-1	1	C2 TR-572-MS	73842	VALVE STEM		12
50-2	1	C25135-802-002-0-000	73842	TIRE 11R22.		12
50-3	1	C2 46213B	41885	WHEEL 8.25 X 22.5		12
50-4	1	D2 D21FC16 7SWN810 11-92	OWXM9	AXLE	Fig C2	3
50-5	1	C2 21 B-FAB-322-WB-13.25-C-50-5592	99062	SUSPENSION	Fig C3	1

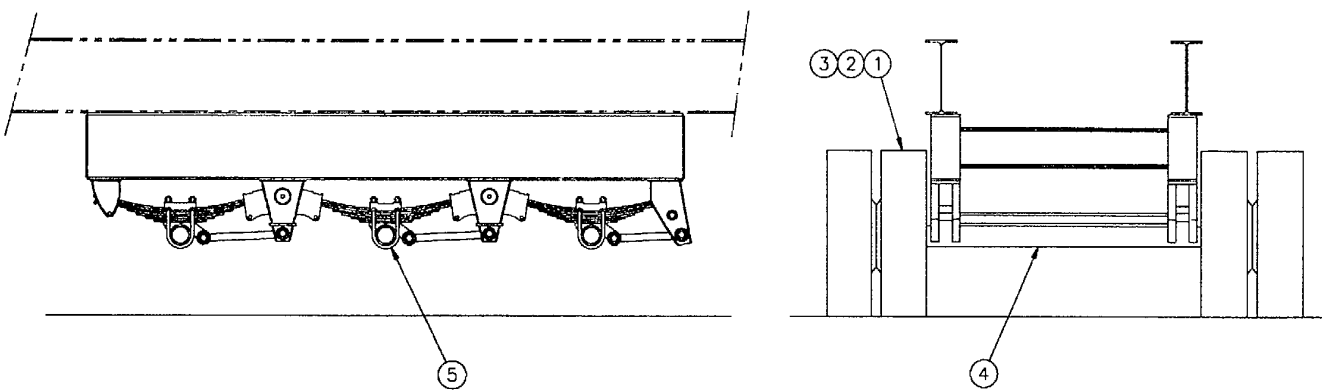


Figure 50 - Suspension Assembly

**FIGURE 51  
ASPHALT INJECTION ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	40-450-18		ASPHALT INJECTION ASSEMBLY	Fig 51	1
51-1	1	MP 40-400-53	3ABO3	INJECTION SUPPORT STRUCTURE		1
51-2	1	MP 40-400-95	3ABO3	ASPHALT INJECTION PIPE		1
51-3	1	C2 0440011	OWXW1 90	DEGREE ELBOW 3" NPT FEMALE		1
51-4	1	MP 40-204-01	3ABO3	ASPHALT INJECTION EXTENSION PIPE		1
51-5	1	MP 40-204-03	3ABO3	FINES INJECTION PIPE		1
51-6	1	C2 0440013	OWXWL	90 DEGREE ELBOW 4" NPT FEMALE		1
51-7	1	MP 40-204-02	3ABO03	FINES INJECTION EXTENSION PIPE		1
51-8	1	MP 40-400-54	3ABO3	INJECTION PIPE SUPPORT		1
51-9	1	40-202-07	3ABO3	5" U-BOLT		3
51-10	1	MP 40-400-55	3ABO3	PIPE SPACER INJECTION ASSEMBLY		3
51-11	1	COMMERCIA L		CONNECTOR 4" MALE CAMLOCK-4" FEMALE PIPE		1
51-12	1			4" CAMLOCK CAP		1
51-13	1			FLANGE CAP 2"		1
51-A5	1	COMMERCIA L		1/2" NUT, LW, FW		6



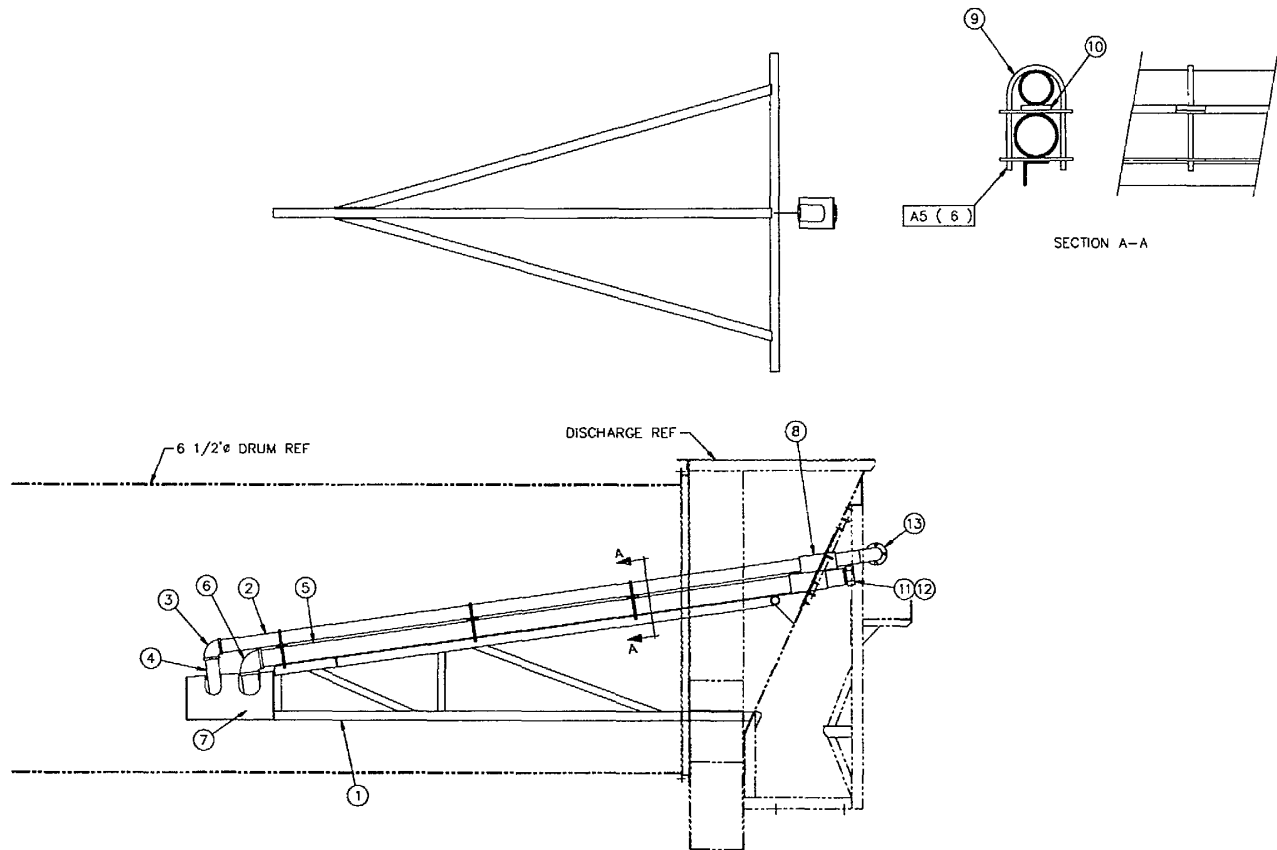
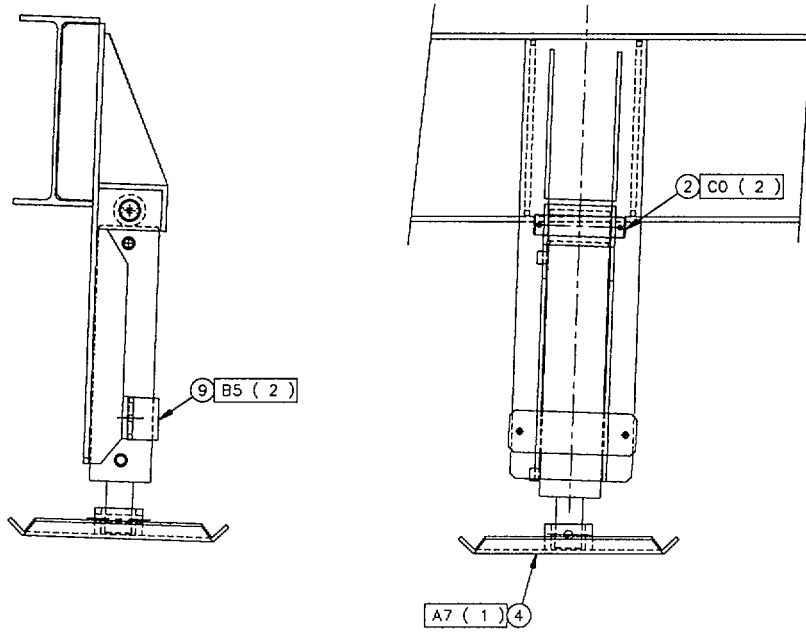


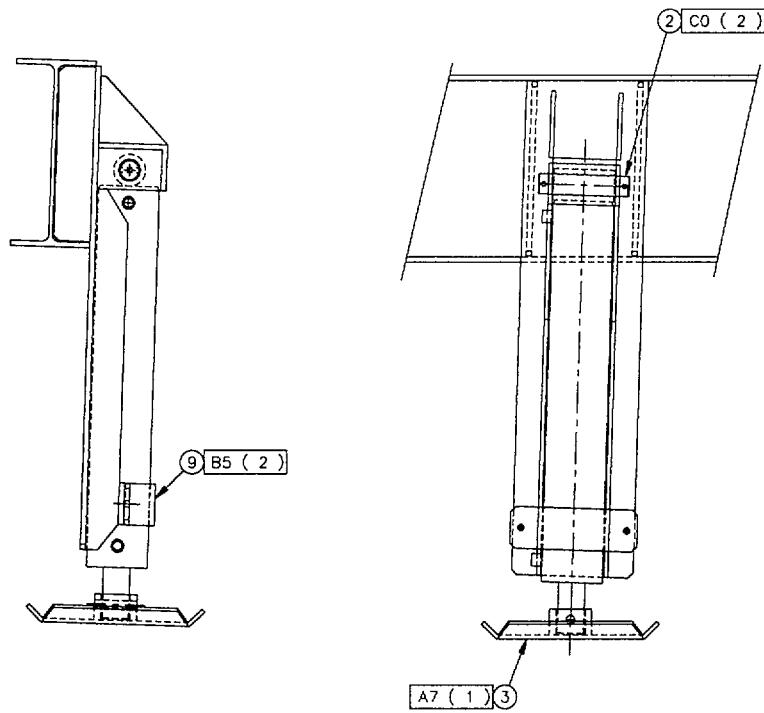
Figure 51 - Asphalt Injection Assembly

**FIGURE 52  
LEVELLING JACK**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	40-450-19		LEVELLING JACK	Fig 52	2
52-2	1	MP 51-202-02	3AB03	PIN LIFT CYLINDER		4
52-3	1	MP 40-400-52	3AB03	BASE PLATE LEVELLING JACK		2
52-4	1	MP 40-400-92	3AB03	BASE PLATE LEVELLING JACK		2
52-9	1	MP 51-400-67	3AB03	CLAMP LIFT CYLINDER		4
52-A7	1		COMMERCIAL	BOLT 3/4" X 4 1/2" LG, NL		4
52-B5	1		COMMERCIAL	BOLT 1/2" X 2" LG, NUT, LW		8
52-CO	1		COMMERCIAL	COTTER PIN 3/8" X 2 1/2" LG		8



HEAD END



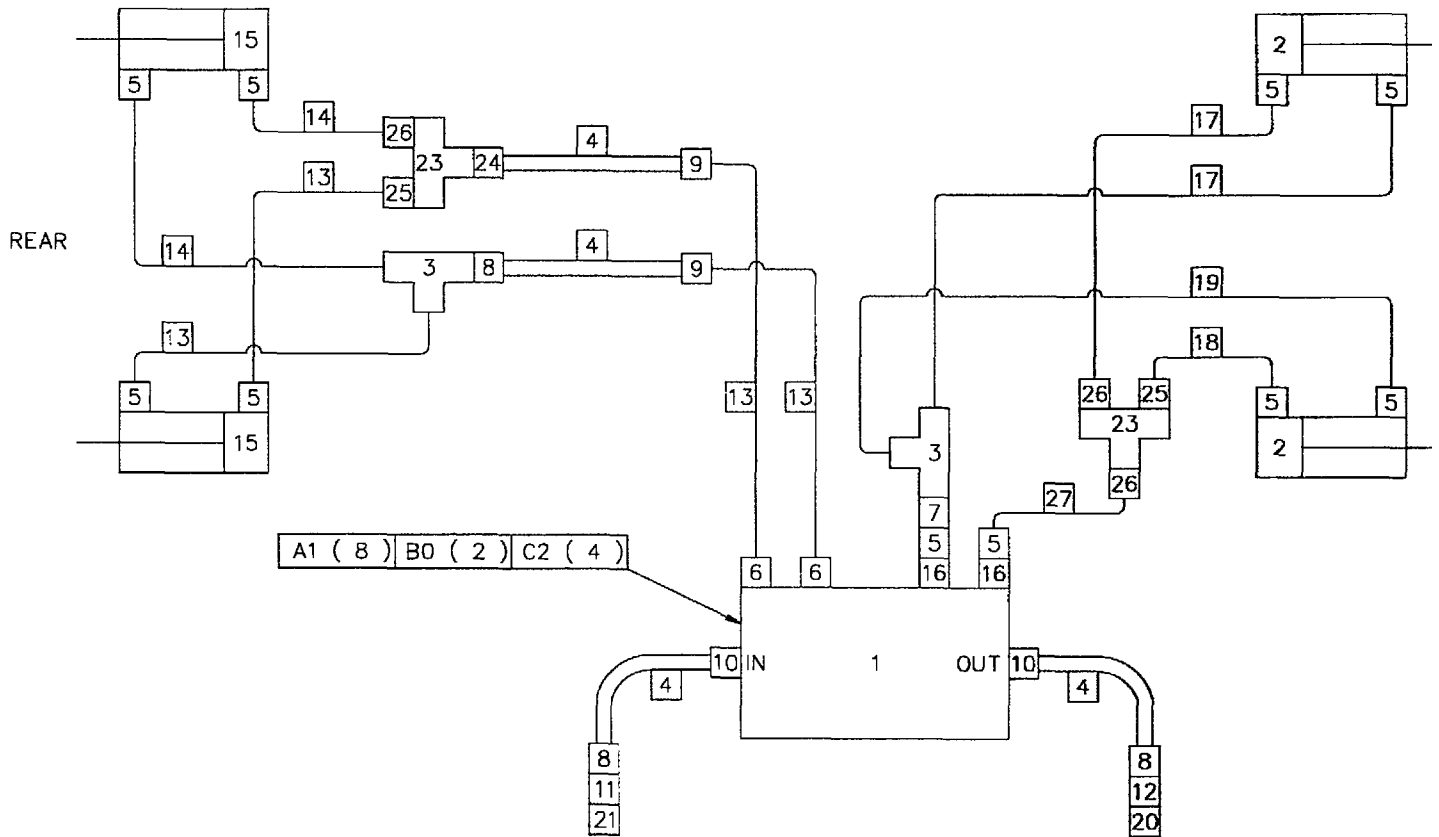
TAIL END

Figure 52 - Levelling Jack  
page 52 - 2

**FIGURE 53  
LEVELING JACK PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-29		LEVELLING JACK PIPING	Fig 53	
53-1	1	H2 90-983-99	3ABO3	CONTROL VALVE		1
53-2	1	H2 03-950-20	3ABO3	HYDRAULIC CYLINDER 5" BORE X 18" STROKE	Fig 152	2
53-3	1	H2 2255-8-8S	01276	1/2" NPT FEMALE SWIVEL TEE		2
53-4	1		3ABO3	1/2" HYDRAULIC TUBING C/W 1290-8S FLARE NUT AND 900605-8S SLEEVE LENGTH AS REQUIRED		4
53-5	1	H2 2047-8-8S	01276	90 DEG SWIVEL 1/2" NPT MALE-1/2" NPT FEMALE		10
53-6	1	H2 2068-8-6S	01276	90 DEG SWIVEL 3/8" ORB MALE-1/2" NPT FEMALE		2
53-7	1	H2 2083-8-8S	01276	1/2" NPT MALE - 1/2" NPT MALE		1
53-8	1	H2 2021-8-8S	01276	1/2" NPT MALE - 1/2" JIC MALE		3
53-9	1	H2 2022-8-8S	01276	1/2" JIC MALE - 1/2" NPT FEMALE		2
53-10	1	H2 202702-6-8S	01276	3/8" ORB MALE-1/2" JIC MALE		2
53-11	1	H2 5601-08-10	01276	FLUID TRANSFER COUPLING		1
53-12	1	H2 FD76-1002-08-10	01276	FLUID TRANSFER COUPLING		1
53-13	1	5'- 6" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		4
53-14	1	9'- 0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
53-15	1	H2 03-950-21	3ABO3	HYDRAULIC CYLINDER 5" BORE X 30" STROKE	Fig 116	2
53-16	1	H2 2066-8-6S	01276	3/8" ORB MALE - 1/2" NPT FEMALE SWIVEL		2
53-17	1	11'- 0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
53-18	1	3'- 2" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		1
53-19	1	1'- 8" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
53-20	1	H2 5657-10	01276	CAP		1
53-21	1	H2 5659-10	01276	PLUG		1
53-22	1	C2 03-120-88	3ABO3	HOSE CLAMP AS REQUIRED		
53-23	1	H2 PDC-8-50	02249	GRESEN FLOW DIVIDER		2
53-24	1	H2 2061-8-8S	01276	1/2" JIC MALE - 1/2" ORB MALE 45 DEG		1
53-25	1	H2 2068-8-8S	01276	1/2" ORB MALE - 1/2" NPT FEM 90 DEG SWIVEL		2
53-26	1	H2 2066-8-8S	01276	1/2" ORB MALE - 1/2" NPT FEMALE SWIVEL		3
53-27	1	2'- 0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		1
53-A1	1	COMMERCIAL		1/4" NUT, LW, FW		8
53-B0	1	COMMERCIAL		SPAENAUER #UB-1X U BOLT		2
53-C2	1	COMMERCIAL		HEX BOLT 5/16" X 3" LG, NUT, LW, FW		4



②② - ANY CLAMPS REQUIRED FOR THIS PIPING, CAN BE ORDERED USING THE INFORMATION PROVIDED IN THE PRECEDING TABLE.

Figure 53 - Leveling Jack Piping  
page 53-3

**FIGURE 54  
LANDING JACK**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-21		LANDING JACK	Fig 54	1
54-1	1	40-200-11	3A803	BRACE		2
54-2	1	C2 LG75-4A-113	74410	LANDING GEAR SET		1
54-3	1	40-200-14	3A803	BRACE		2
54-A6	1	COMMERCIAL		BOLT 5/8" X 1 3/4" LG, NUT, LW		20
54-B6	1	COMMERCIAL		BOLT 5/8" X 2" LG, NUT, LW		4
54-CO	1	COMMERCIAL		LOCK PIN 3/8" X 2 1/2"		1

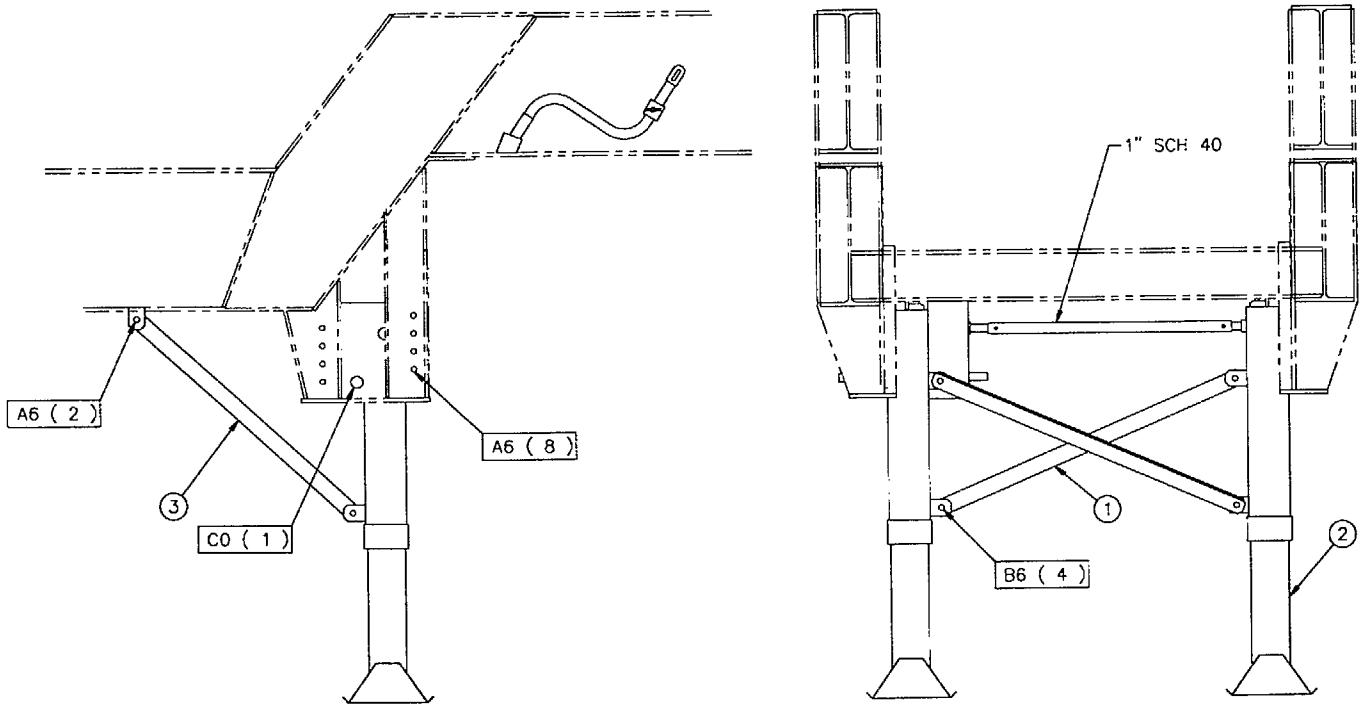


Figure 54 - Landing Jack  
page 54-2



**FIGURE 55  
SCREW JACK**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-22		SCREW JACK	Fig 55	1
55-1	1	MP 51-400-95	3ABO3	SCREW JACK TOP PLATE		8
55-2	1	MP 51-400-97	3ABO3	SCREW JACK BODY		2
55-3	1	MP 51-400-98	3ABO3	SCREW JACK BODY		2
55-4	1	MP 51-400-99	3ABO3	SCREW JACK BODY		2
55-5	1	MP 51-400-00	3ABO3	SCREW JACK BODY		2
55-6	1	MP 51-400-43	3ABO3	SCREW JACK BASE PLATE		8
55-7	1	MP 51-401-04	3ABO3	SCREW JACK COLLAR		2
55-9	1	MP 51-400-59-B	3ABO3	PINS - DETAIL B		8
55-10	1	MP 51-401-05	3ABO3	SCREW JACK COLLAR		2
55-11	1	MP 51-401-91	3ABO3	SCREW JACK COLLAR		4
55-A7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW		16
55-B0	1	COMMERCIAL		COTTER PIN 3/16" X 1 1/4"		16
55-C0	1	COMMERCIAL		QUICK PIN 1/4"		16

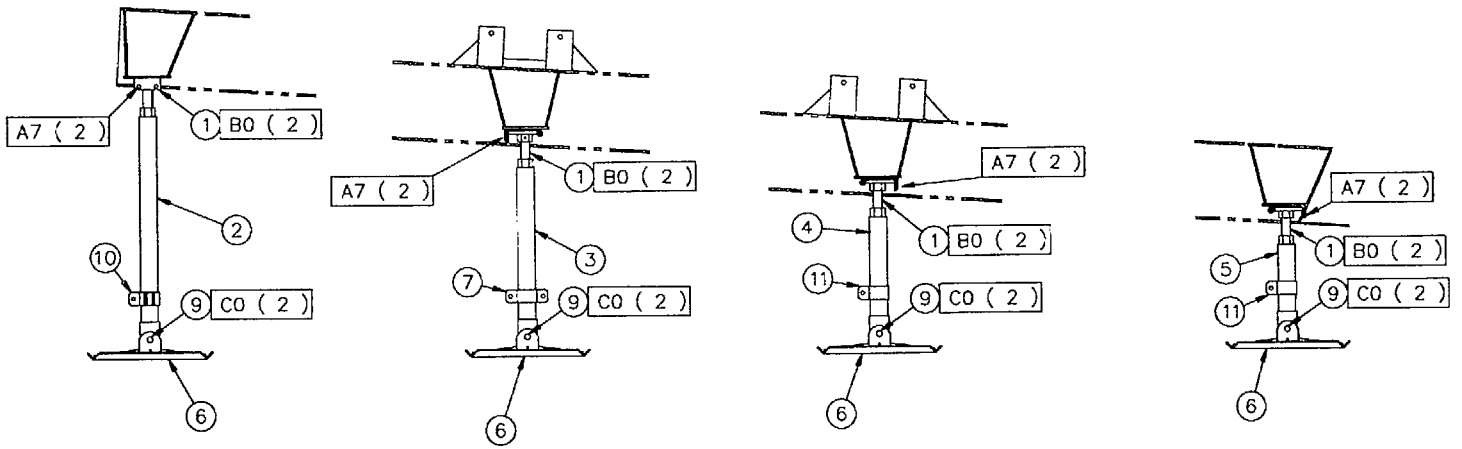


Figure 55 - Screw Jack  
page 55 - 2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-23		FEED INLET ASSEMBLY	Fig 56	1
56-1	1	MP 40-400-27	3ABO3	FEED CHUTE		1
56-2	1	MP 40-400-35	3ABO3	BY-PASS GATE		1
56-5	1	MP 40-400-22	3ABO3	INLET FLAP		1
56-6	1	MP 40-202-04	3ABO3	INLET FLAP SHAFT		1
56-A0	1	COMMERCIAL		COTTER PIN 1/4" X 1 1/4" LG		2

56 - 1

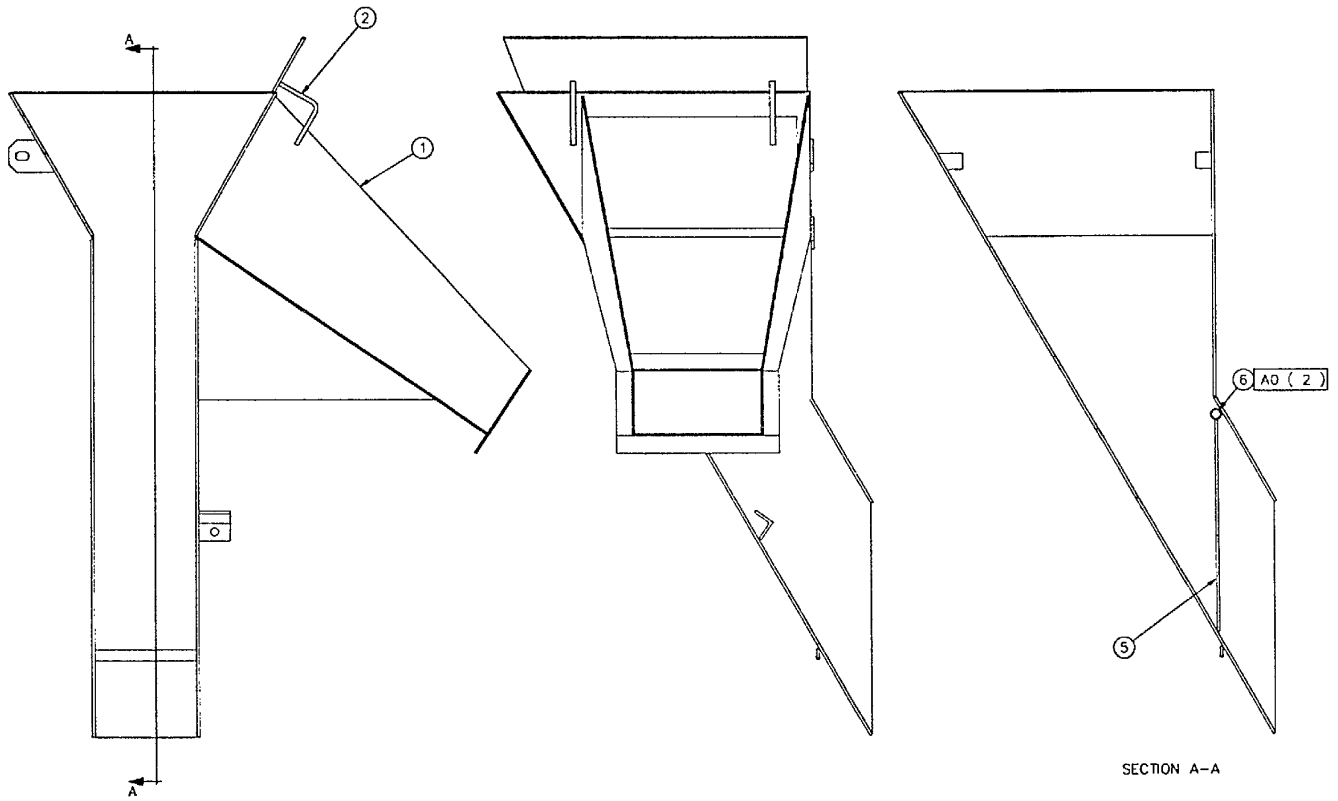


Figure 56 Feed Inlet Assembly  
page 56 - 2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-25		SCREW JACK BRACING	Fig 57	1
57-1	1	MP 40-203-01-A	3ABO3	BRACING DETAIL A		2
57-2	1	MP 40-203-01-B	3ABO3	BRACING DETAIL B		2
57-3	1	MP 40-203-01-C	3ABO3	BRACING DETAIL C		4
57-A7	1	COMMERCIAL		BOLT 3/4" X 4" LG, NUT, LW		16

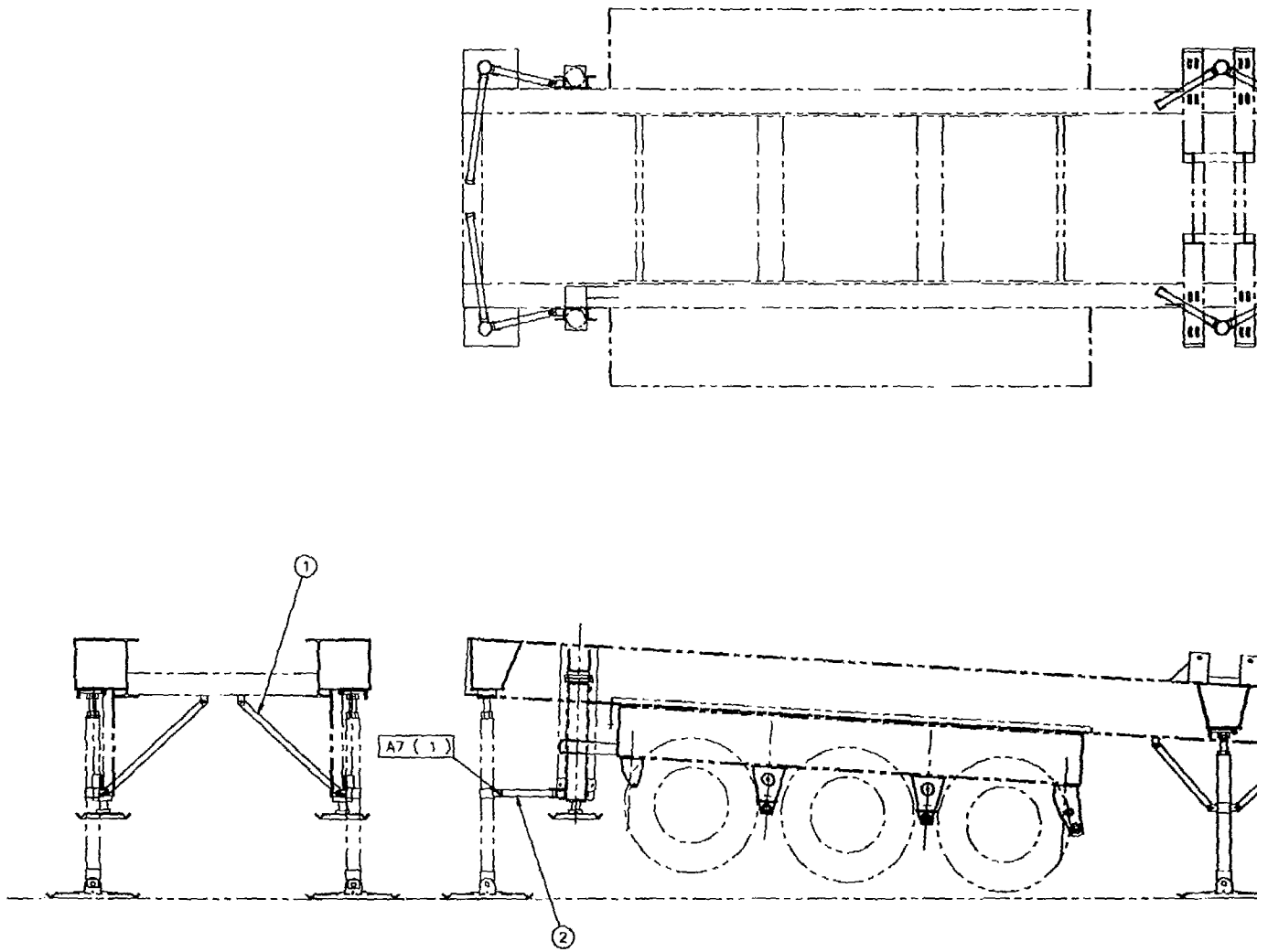


Figure 57 - Screw Jack Bracing  
page 57 - 2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-32		HYDRAULIC POWER PACK	Fig 58	
58-2	1	90-452-36	3ABO3	HYDRAULIC POWER PACK PIPING SCHEMATIC	Fig 12	1
58-3	1	90-452-29	3ABO3	HYDRAULIC POWER PACK MECHANICAL	Fig 46	1
58-5	1	90-400-77	3ABO3	HYDRAULIC POWER PACK FRAME		1

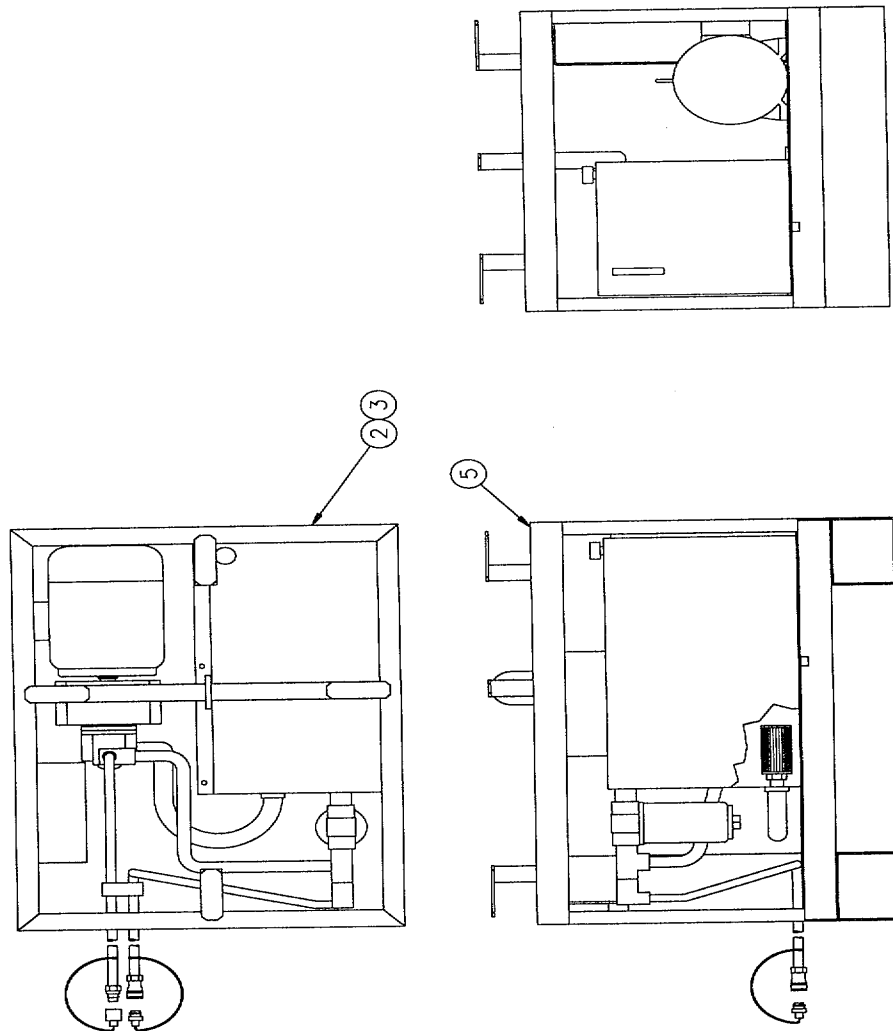
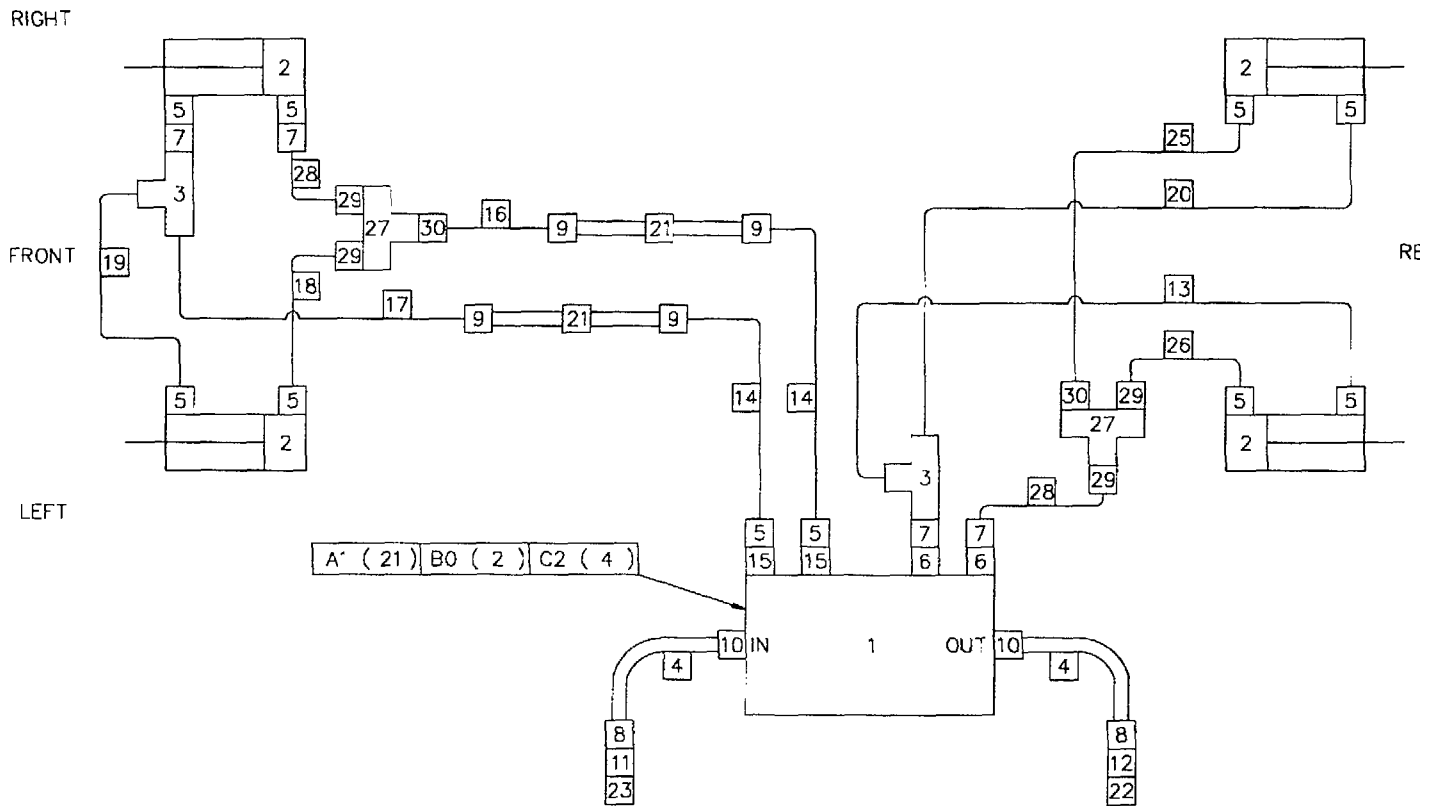


Figure 58- Hydraulic Power Pack  
page 58 - 2



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-14		LEVELLING JACK PIPING	Fig 59	
59-1	1	H2 90-983-99	3ABO3	CONTROL VALVE		1
59-2	1	H2 03-950-20	3ABO3	HYDRAULIC CYLINDER 5" BORE X 18" STROKE	Fig 152	4
59-3	1	H2 2255-8-8S	01276	1/2" NPT FEMALE SWIVEL TEE		2
59-4	1		3ABO3	1/2" HYDRAULIC TUBING C\W 1290-8S FLARE NUT AND 900605-8S SLEEVE LENGTH AS REQUIRED		
59-5	1	H2 2047-8-8S	01276	90 DEG SWIVEL 1/2" NPT MALE-1/2" NPT FEM		10
59-6	1	H2 2068-8-6S	01276	90 DEG SWIVEL 3/8" ORB MALE-1/2" NPT FEMALE		2
59-7	1	H2 2083-8-8S	01276	1/2" NPT MALE - 1/2" NPT MALE		4
59-8	1	H2 2021-8-8S	01276	1/2"NPT MALE - 1/2" JIC MALE		2
59-9	1	H2 2025-8-8S	01276	1/2" FEMALE PIPE - 1/2" JIC 90 DEG ADAPTER		4
59-10	1	H2 202702-6-8S	01276	3/8" ORB MALE-1/2" JIC MALE		2
59-11	1	H2 5601-08-10	01276	FLUID TRANSFER COUPLING		1
59-12	1	H2 FD76-1002-08-10	01276	FLUID TRANSFER COUPLING		1
59-13	1	7'-8" 1/2"X1/2" NPT	3ABO3	HYDRAULIC HOSE ASSEMBLY		1
59-14	1	13'-8" 1/2"X1/2" NPT	3ABO3	HYDRAULIC HOSE ASSEMBLY		2
59-15	1	H2 2066-8-6S	01276	3/8" ORB MALE - 1/2" NPT FEMALE SWIVEL		2
59-16	1	4'-4" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE ASSEMBLY		1
59-17	1	5'-8" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE ASSEMBLY		1
59-18	1	8'-6" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE ASSEMBLY		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
59-19	1	12'-0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE ASSEMBLY		1
59-20	1	3'-6" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE ASSEMBLY		1
59-21	1	H2 2027-8-8S	01276	1/2" JIC MALE - 1/2" JIC MALE ADAPTER		2
59-22	1	H2 5657-10	01276	CAP		1
59-23	1	H2 5659-10	01276	PLUG		1
59-24	1	C2 03-120-88	3ABO3	HOSE CLAMP AS REQUIRED		
59-25	1	2'-6" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE ASSEMBLY		1
59-26	1	6'-3" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE ASSEMBLY		1
59-27	1	H2 PDC-8-50	02249	GRESEN FLOW DIVIDER		2
59-28	1	2'-0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE ASSEMBLY		2
59-29	1	H2 2066-8-8S	01276	1/2" ORB - 1/2" NPT FEMALE SWIVEL		4
59-30	1	H2 2068-8-8S	01276	1/2" ORB - 1/2" NPT FEM X 90 D. SWIVEL		2
59-A1	1	COMMERCIAL		1/4" NUT, LW, FW		21
59-B0	1	COMMERCIAL		SPAENAUER #UB-1X U BOLT		2
59-C2	1	COMMERCIAL		BOLT 5/16" X 3" LG, NUT, FW, LW		4



②④ - ANY CLAMPS REQUIRED FOR THIS PIPING, CAN BE ORDERED USING THE INFORMATION PROVIDED IN THE PRECEDING TABLE.

Figure 59 - Leveling Jack Piping  
page 59 - 3

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-25		FINES TRANSITION\PIPE	Fig 60	
60-1	1	51-401-47	3ABO3	FINES TRANSITION		1
60-4	1	COMMERCIAL		NPT PIPE 3" X 10" LG		1
60-5	1	COMMERCIAL		REDUCER 4" X 3"		1
60-6	1	COMMERCIAL		KC NIPPLE 4"		2
60-7	1	COMMERCIAL		FLEX HOSE 4" X 60" LG		1
60-8	1	COMMERCIAL		PUNCH LOCK CLAMPS 4"		4
60-9	1	COMMERCIAL		SILICONE RUBBER GASKET (AS REQUIRED)		
60-A5	1	COMMERCIAL		BOLT 1/2" X 2" LG, NUT, LW, FW		8
60-A5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW		4

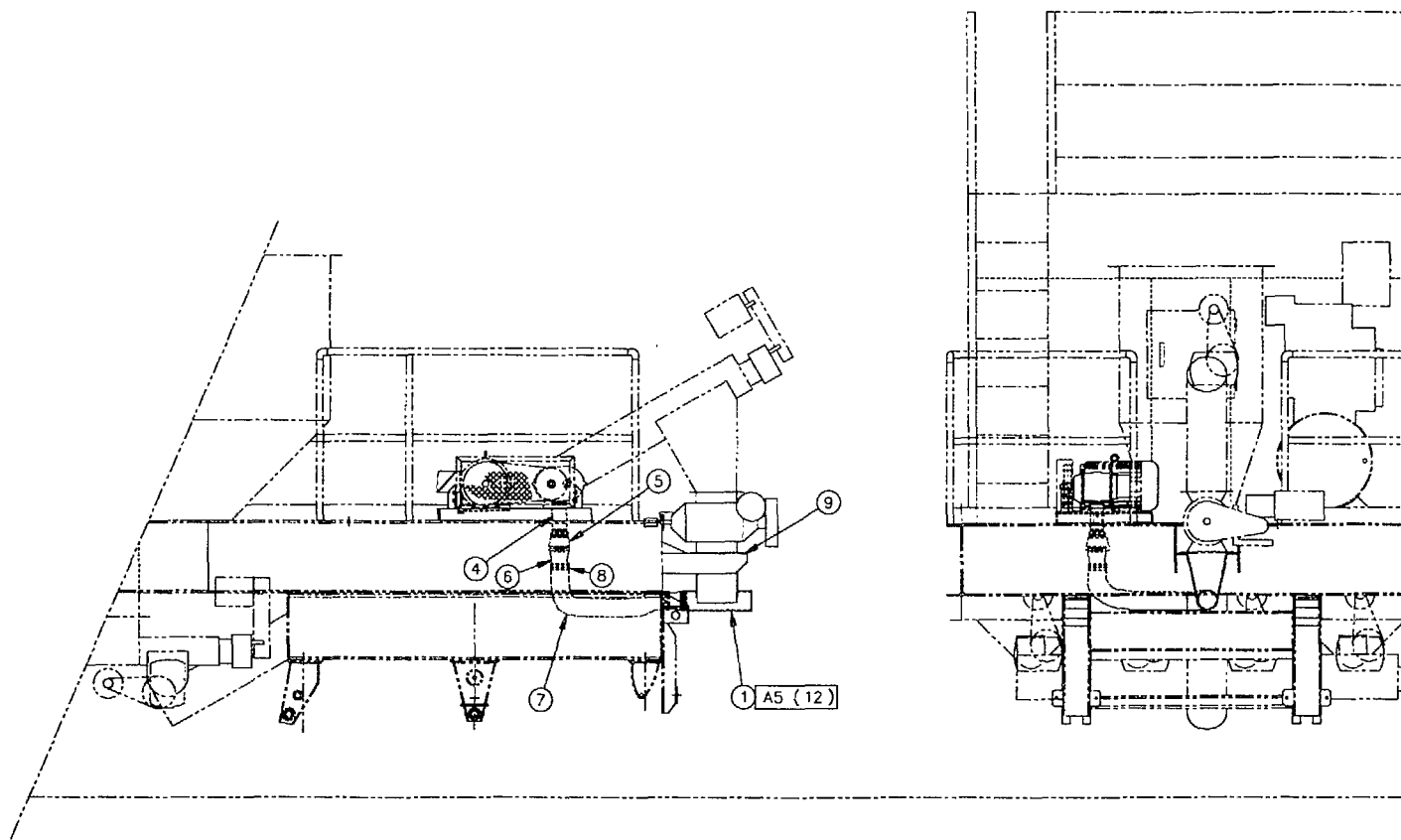
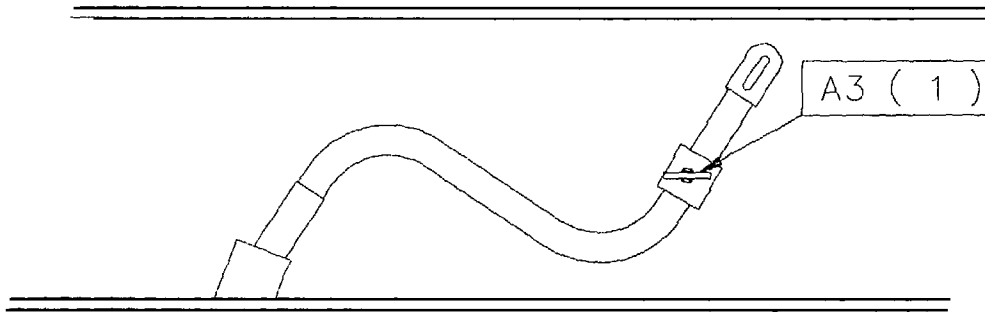


Figure 60 - Fines Transition/Pipe  
page - 60-2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-400-76		DOLLY CRANK STORAGE	Fig 61	1
61-A3	1	COMMERCIAL		BOLT 3/8" X 1 1/4" LG		1



*Figure 61 - Dolly Crank Storage*  
**page 61 - 2**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-06		FINES BLOWER	Fig 62	1
62-1	1	MP 51-400-96	3ABO3	DRIVE MOUNT FINES BLOWER		1
62-2	1	AP A7U-RA1	51729	ROTARY BLOWER 2400 RPM	Fig C5	
62-3	1	W2 5V8.0-2-SK	8D709	SHEAVE		1
62-4	1	W2 SK X 7/8"	8D709	BUSHING		1
62-5	1	E3 KM180	36232	20HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
62-6	1	W2 5V10.9-2-SK	8D709	SHEAVE		1
62-7	1	W2 SK X 1 5/8"	8D709	BUSHING		1
62-8	1	W3 5VX630	8D709	DRIVE BELT		1
62-9	1	MP 51-401-16	3ABO3	TAKE UP BRACKET		1
62-10	1	MP 51-401-70	3ABO3	DRIVE GUARD		2
62-11	1	34-303AA	OTWO2	FILTER FRAME		1
62-12	1	81-0472	OTWO2	PAPER ELEMENT		1
62-13	1	81-1204	OTWO2	FELT ELEMENT		1
62-14	1	81-1037	OTWO2	WIRE MESH ELEMENT		1
62-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW		4
62-B5	1	COMMERCIAL		BOLT 1/2" X 6" LG, FW		1
62-C5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW		4
62-D4	1	COMMERCIAL		BOLT 3/8" X 1" LG, LW, FW		4
62-E5	1	COMMERCIAL		BOLT 1/2" X 2" LG, NUT, LW, FW		4



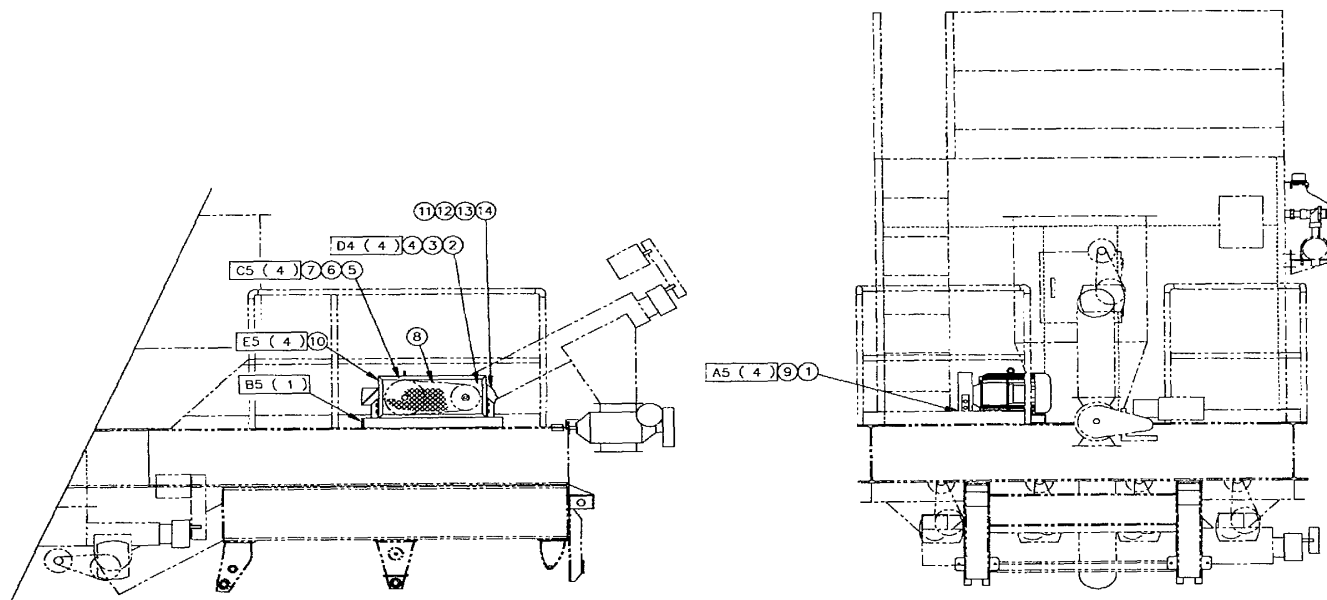


Figure 62 - Fines Blower  
page 62 - 2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-22		CONVEYOR LIFT ASSEMBLY	Fig 63	1
63-2	1	MP 52-202-04	3ABO3	CYLINDER PIN		2
63-A0	1	COMMERCIAL		COTTER PIN 1/4" X 2" LG		4

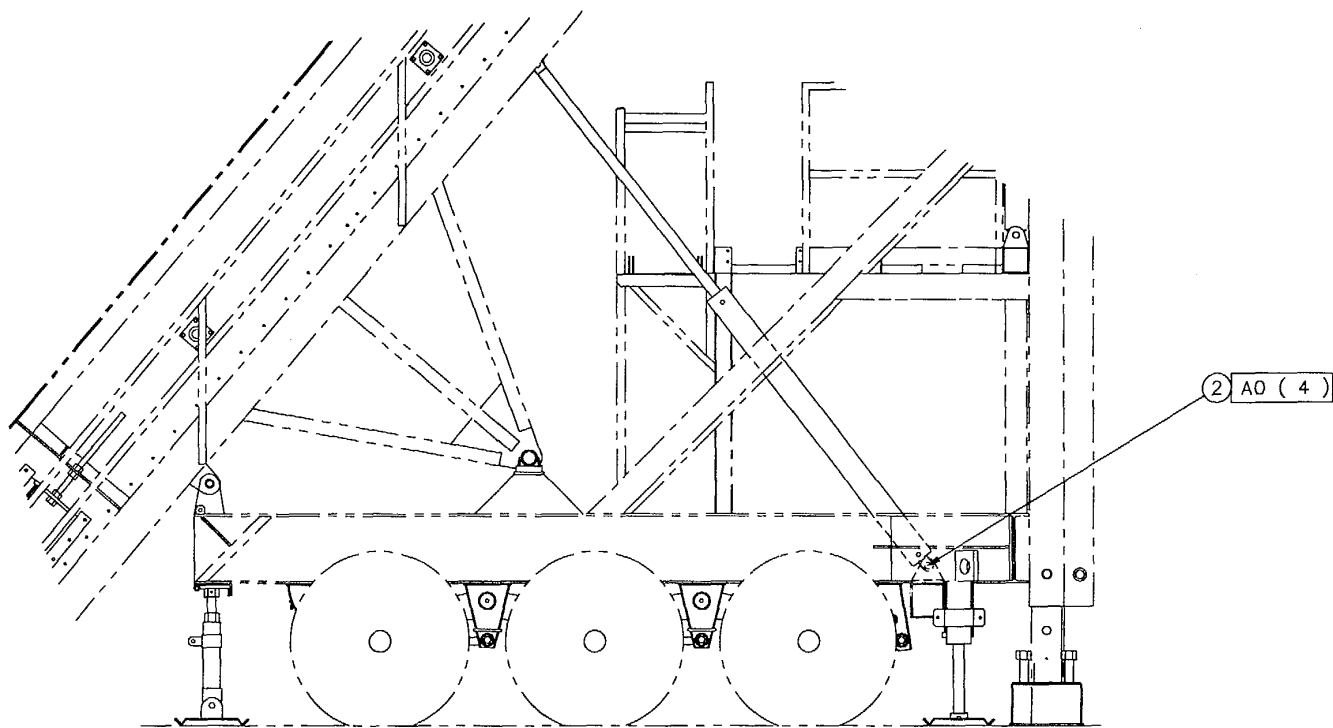


Figure 63 - Conveyor Lift Assembly  
page 63 - 2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-47		SCREW JACK	Fig 64	1
64-1	1	MP 51-400-95	3ABO3	SCREW JACK TOP PLATE		2
64-2	1	MP 51-401-17	3ABO3	SCREW JACK COLLAR		2
64-3	1	MP 51-400-00	3ABO3	SCREW JACK BODY		2
64-4	1	MP 51-400-59-B	3ABO3	PINS - DETAIL B		2
64-5	1	MP 51-401-09	3ABO3	BASE PLATE		2
64-A7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW		4
64-B0	1	COMMERCIAL		COTTER PIN 3/16" X 1 1/4"		4
64-C0	1	COMMERCIAL		QUICK-PIN 1/4"		4

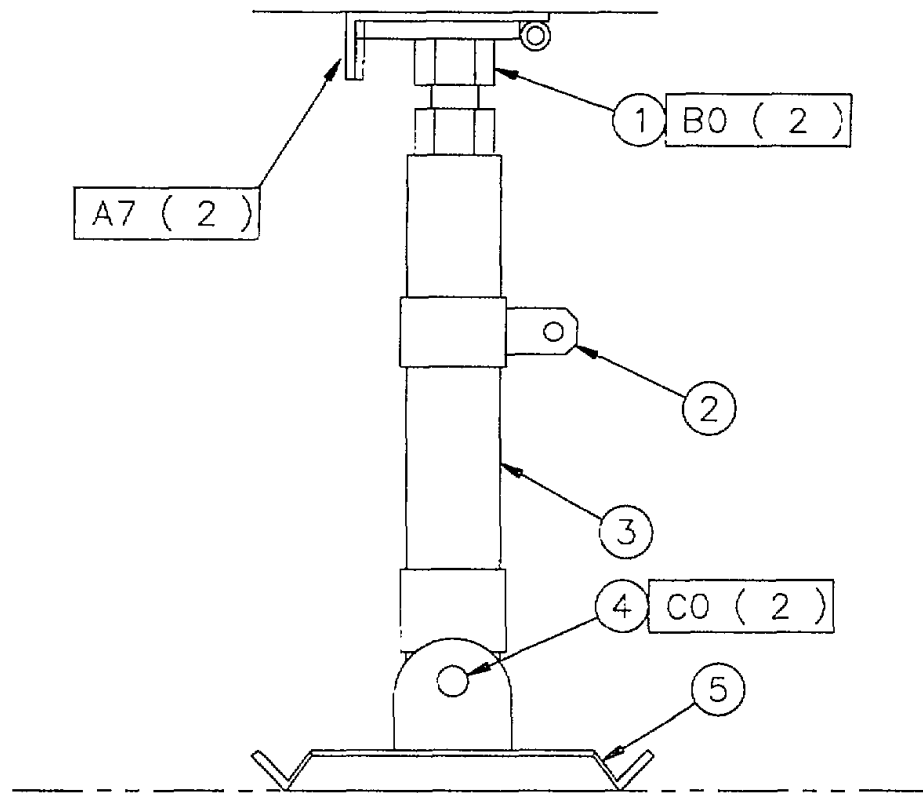


Figure 64 - Screw Jack  
page 64 - 2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-07		EXHAUST FAN DRIVE ASSEMBLY	Fig 65	1
65-1	1	40-450-14	3ABO3	EXHAUST BLOWER ASSEMBLY	Fig 162	1
65-2	1	W2 5V16.0-6-F	8D709	SHEAVE		1
65-3	1	W2 F X 3 3/8" BORE	8D709	BUSHING		1
65-4	1	E3 KM316	36232	100HP/1200/460V/3/60 TEFC ELECTRIC MOTOR		1
65-5	1	W2 5V23.6-6-J	8D709	SHEAVE		1
65-6	1	W2 J X 3 15/16"BORE	8D709	BUSHING		1
65-7	1	W3 5VX1400	8D709	BELT		6
65-8	1	MP 51-401-18	3ABO3	MOTOR MOUNT TAKE UP		1
65-9	1	MP 51-401-19	3ABO3	MOTOR MOUNT TAKE UP		1
65-10	1	MP 51-451-08	3ABO3	TAKE UP ROD ASSY		2
65-11		MP 51-401-85	3ABO3	DRIVE GUARD		1
65-12		MP X-273-525	3ABO3	CONNECTER		1
65-13		MP 40-904-02	3ABO3	SEAL		1
65-A8		COMMERCIAL		BOLT 7/8" X 2" LG, NUT, FW, LW		6
65-B7		COMMERCIAL		BOLT 3/4" X 3" LG, NUT, FW, LW		4
65-C3		COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW		9
65-D5		COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		6
65-E3		COMMERCIAL		BOLT 3/8" X 3/4" LG, LW		3

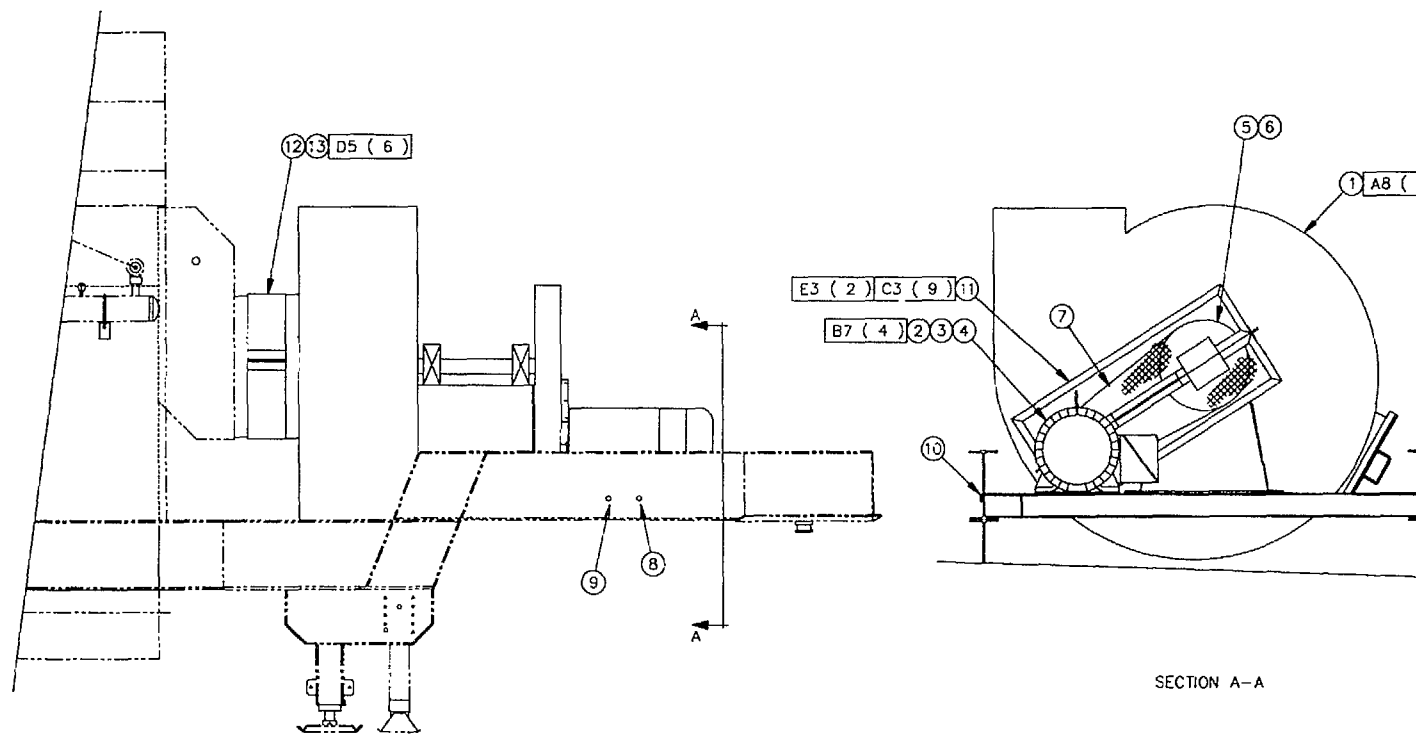


Figure 65 - Exhaust Fan Drive Assembly  
page 65-2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-11		SCREEN DRIVE ASSEMBLY	Fig 66	1
66-1	1	03-452-15	3ABO3	SCREEN DRIVE	Fig 67	1
66-2	1	51-451-29	3ABO3	DRIVE GUARD	Fig 99	1



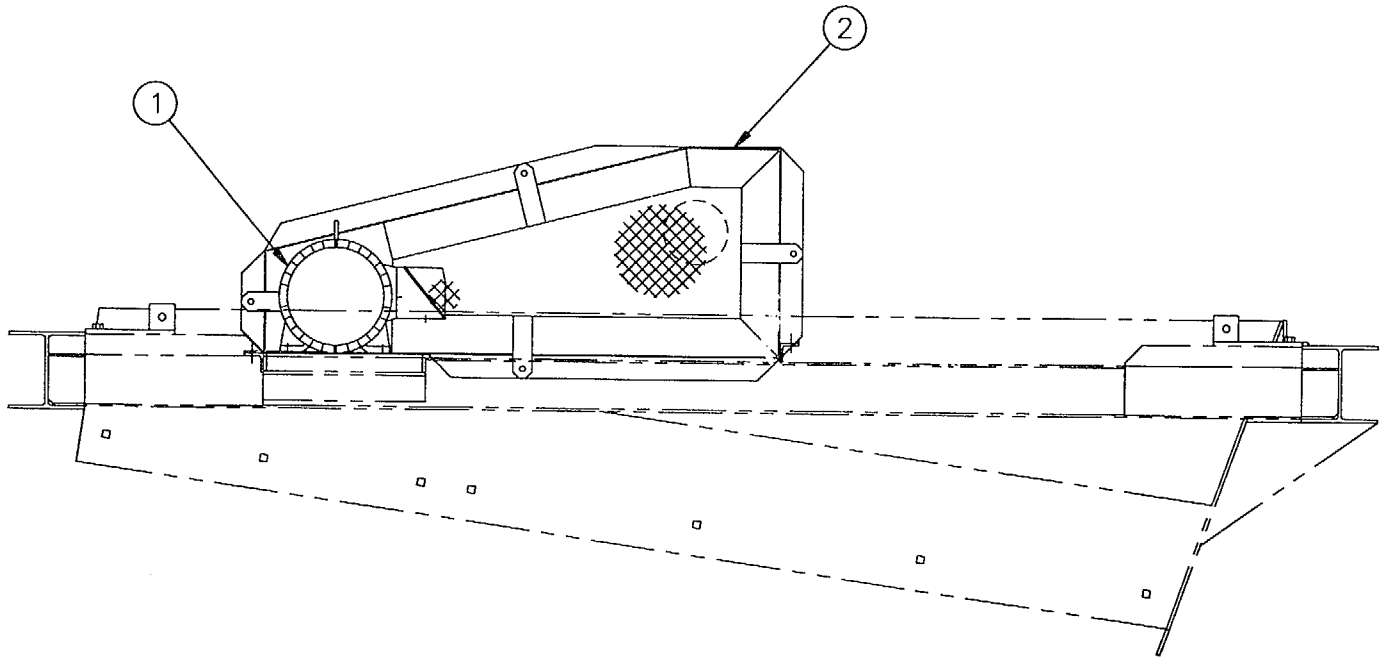


Figure 66 - Screen Drive Assembly  
page 66-2

**FIGURE 67  
SCREEN DRIVE**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	03-452-15		SCREEN DRIVE	Fig 67	1
67-1	1	E3 KM113	36232	5HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
67-2	1	W3 B75	8D709	BELT		1
67-3	1	W2 5.0-1B-SDS	8D709	SHEAVE		1
67-4	1	W2 SDS X 1 1/8"	8D709	BUSHING		1
67-5	1	W2 SK X 2 1/8"	8D709	BUSHING		1
67-6	1	W2 9.0-2B-SK	8D709	SHEAVE		1

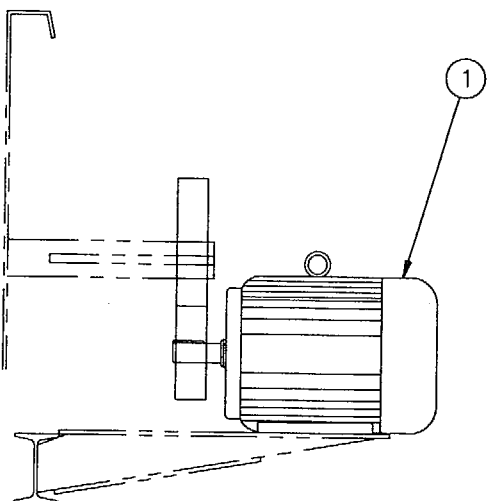
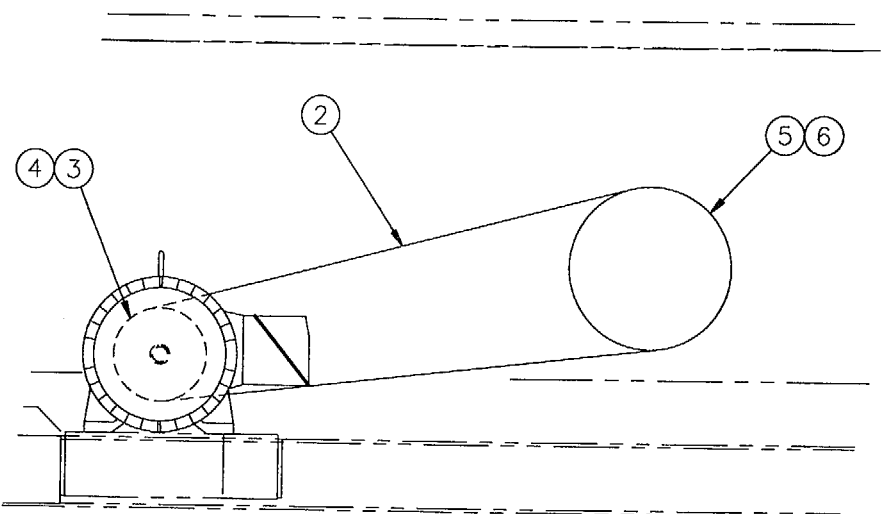


Figure 67 - Screen Drive

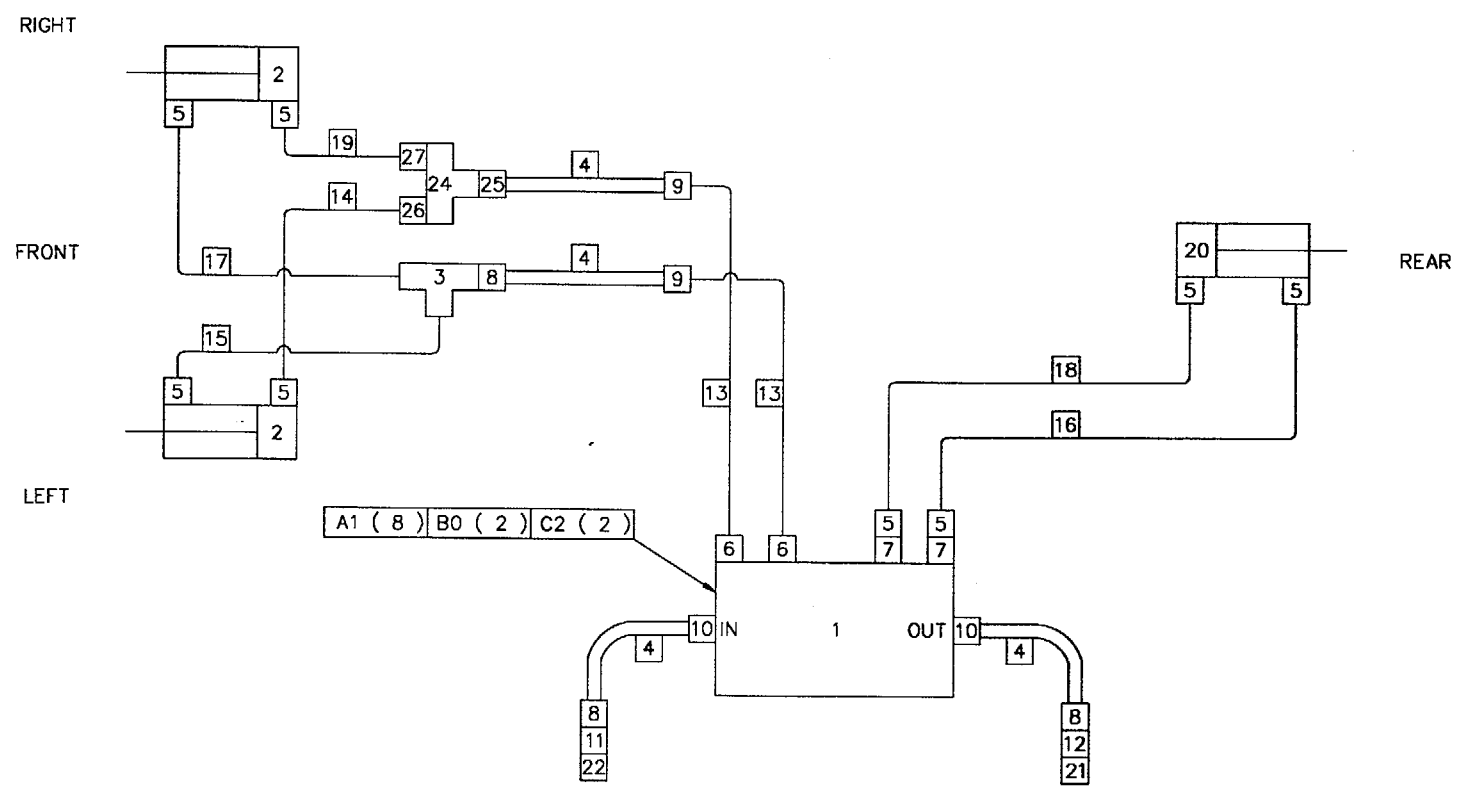
**FIGURE 68  
HYDRAULIC PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-33		HYDRAULIC PIPING	Fig 68	
68-1	1	H2 90-983-99	3ABO3	CONTROL VALVE		1
68-2	1	H2 03-950-23	3ABO3	HYDRAULIC CYLINDER 5" BORE X 48" STROKE	Fig 115	2
68-3	1	H2 2255-8-8S	01276	1/2" NPT FEMALE SWIVEL TEE		1
68-4	1	COMMERCIAL		1/2" HYD TUBING C\W 1290-8S FLARE NUT AND 900605-8S SLEEVE LENGTH AS REQUIRED		
68-5	1	H2 2047-8-8S	01276	90 DEG SWIVEL 1/2" NPT MALE-1/2" NPT FEMALE		8
68-6	1	H2 2068-8-6S	01276	90 DEG SWIVEL 3/8" ORB MALE-1/2" NPT FEMALE		2
68-7	1	H2 2066-8-6S	01276	3/8" ORB MALE - 1/2" NPT FEMALE SWIVEL		2
68-8	1	H2 2021-8-8S	01276	1/2" NPT MALE - 1/2" JIC MALE		3
68-9	1	H2 2022-8-8S	01276	1/2" JIC MALE - 1/2" NPT FEMALE		2
68-10	1	H2 202702-6-8S	01276	3/8" ORB MALE - 1/2" JIC MALE		2
68-11	1	H2 5601-08-10	01276	FLUID TRANSFER COUPLING		1
68-12	1	H2 FD76-1002-08-10	01276	FLUID TRANSFER COUPLING		1
68-13	1	11'-6" 1/2"X1/2" NPT	COMM.	HYDRAULIC HOSE ASSEMBLY		1
68-14	1	10'-6" 1/2"X1/2" NPT	COMM.	HYDRAULIC HOSE ASSEMBLY		1
68-15	1	8' 1/2"X1/2" NPT	COMM.	HYDRAULIC HOSE ASSEMBLY		1
68-16	1	7'-3" 1/2"X1/2" NPT	COMM.	HYDRAULIC HOSE ASSEMBLY		1
68-17	1	4'-9" 1/2"X1/2" NPT	COMM.	HYDRAULIC HOSE ASSEMBLY		1
68-18	1	3'-2" 1/2"X1/2" NPT	COMM.	HYDRAULIC HOSE ASSEMBLY		1
68-19	1	2' 1/2"X1/2" NPT	COMM.	HYDRAULIC HOSE ASSEMBLY		2

**FIGURE 68  
HYDRAULIC PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
68-20	1	H2 03-950-03	3ABO3	HYDRAULIC CYLINDER 4" X 48" CONVEYOR LIFT	Fig 150	1
68-21	1	H2 5657-10	01276	CAP		1
68-22	1	H2 5659-10	01276	PLUG		1
68-23	1	C2 03-120-88	3ABO3	CLAMP AS REQUIRED		
68-24	1	H2 PDC-8-50	02249	GRESEN FLOW DIVIDER		1
68-25	1	H2 2061-8-8S	01276	1/2" JIC MALE - 1/2" ORB MALE X 45 DEG		1
68-26	1	H2 2068-8-8S	01276	1/2" ORB MALE - 1/2" NPT FEMALE 90 SWIVEL		1
68-27	1	H2 2066-8-8S	01276	1/2" ORB MALE - 1/2" NPT FEMALE SWIVEL		1
68-A1	1	COMMERCIAL		1/4" NUT, LW, FW		8
68-B0	1	COMMERCIAL		SPAENAUR #UB-1X		2
68-C2	1	COMMERCIAL		BOLT 5/16" X 3" LG, NUT, LW, FW		2

Figure 68 - Hydraulic Piping  
 page 68 - 3



②3 - ANY CLAMPS REQUIRED FOR THIS PIPING, CAN BE ORDERED USING THE INFORMATION PROVIDED IN THE PRECEDING TABLE.

**FIGURE 69  
GENERATOR TRAILER**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-39		GENERATOR TRAILER	Fig 69	1
69-1	1	61-400-10	3AB03	CHASSIS ASSEMBLY		1
69-2	1	61-450-15	3AB03	SUSPENSION	Fig 122	1
69-3	1	61-450-16	3AB03	LANDING JACK ASSEMBLY	Fig 108	1
69-4	1	61-450-17	3AB03	SCREW JACK	Fig 109	4
69-5	1	GFE		GENERATOR		2
69-6	1	10-977-31	3AB03	MUD FLAP		2
69-7	1	X-289-110	3AB03	MUD FLAP BACKUP BAR		2
69-9	1	10-450-61	3AB03	AIR BRAKE SYSTEM	Fig 97	1
69-11	1	61-450-41	3AB03	ELECTRICAL WIRING 12V AND 24V	Fig 101	1
69-12	1	51-450-79	3AB03	FIRE EXTINGUISHER	Fig 21	1
69-13	1	51-451-30	3AB03	5TH WHEEL ADAPTER	Fig 131	1
69-14		135-802-002-0-000	73842	RADIAL TIRE 11R22.5		1
69-15		46213B	41885	WHEEL 8.25 X 22.5		1
69-16		PH-T-60-AOL-8	74410	PINTLE HOOK		1
69-A5		COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		8
69-B5		COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		20
69-C5		COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW GR 8		4

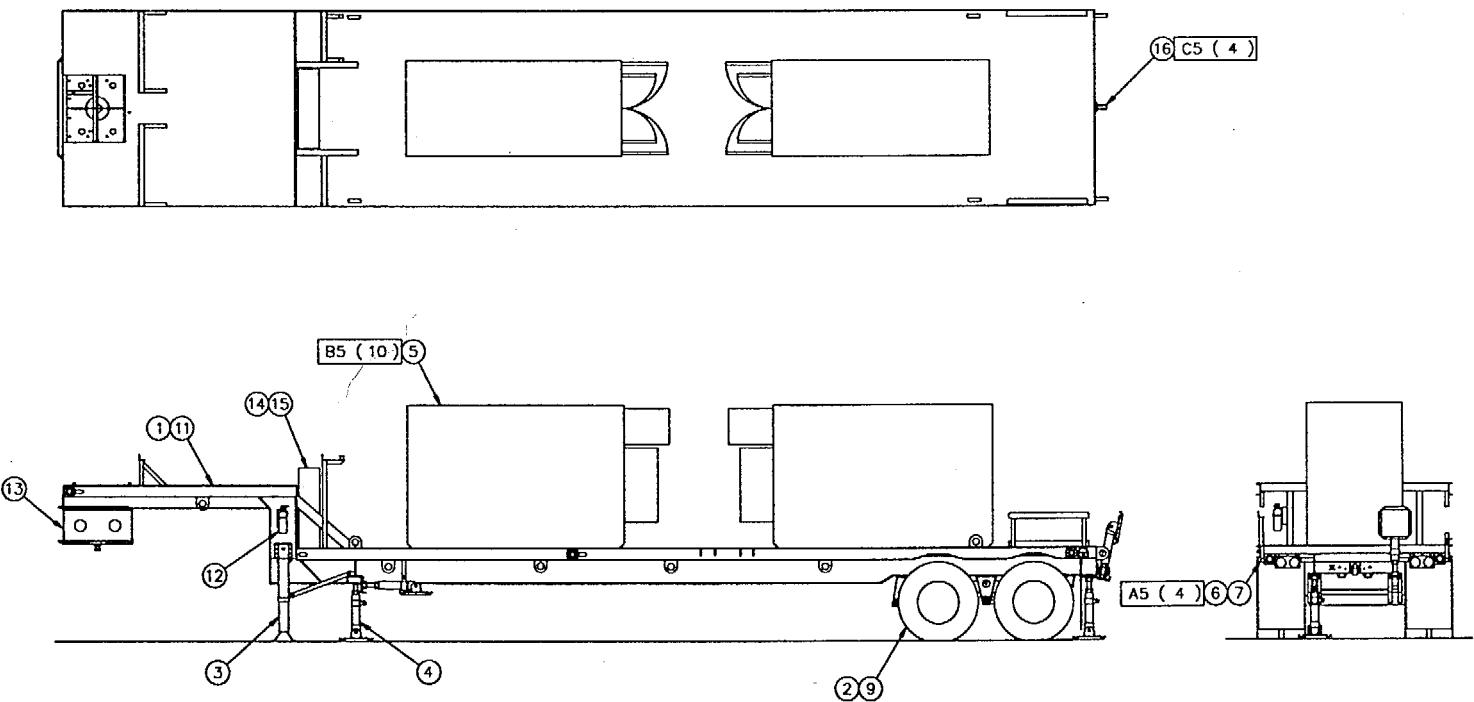


Figure 69 - Generator Trailer



**FIGURE 70  
BIN AND GATE HEATING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-40		BIN AND GATE HEATING	Fig 70	
70-1	1	E4 AR2864-MR	01692	THERMOSTAT CHROMOLOX		1
70-2	1	COMMERCIAL		THERMOSTAT		1
70-3	1	E4 C52375	01692	240 VOLT/750 WATT HEATING ELEMENT		4
70-4	1	PYROTENAX	58235	HEAT CABLE B/R145/190/2780/230/7/12/X		1

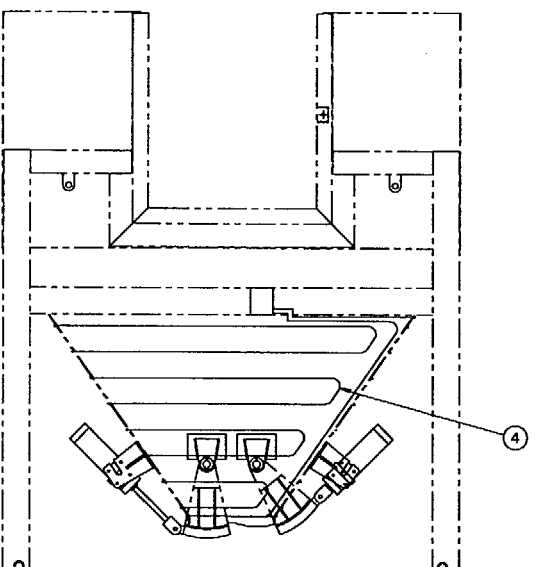
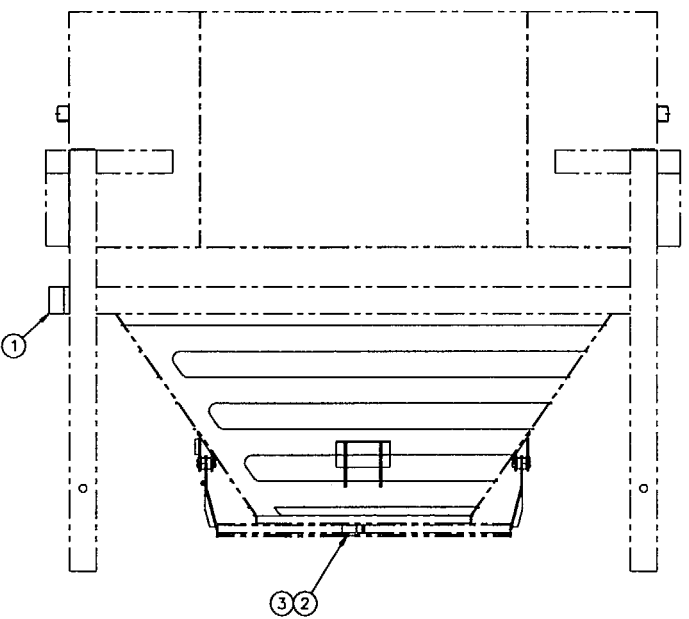
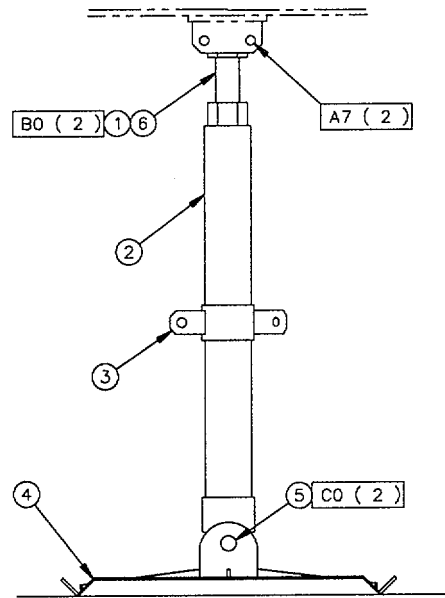


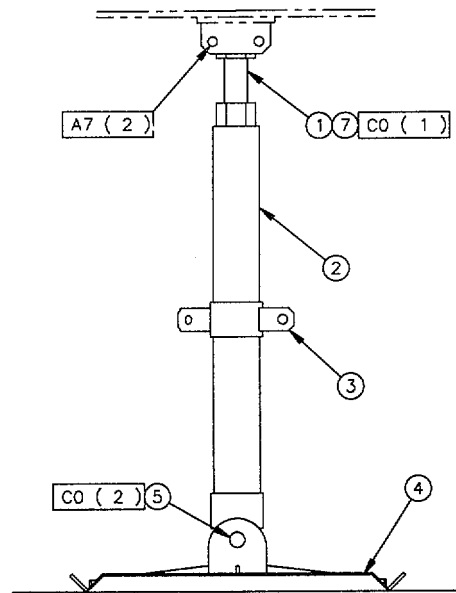
Figure 70 - Bin and Gate Heating

**FIGURE 71  
SCREW JACK ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-10		SCREW JACK ASSEMBLY	Fig 71	1
71-1	1	MP 51-400-95-B	3ABO3	SCREW JACK TOP PLATE		4
71-2	1	MP 51-401-25	3ABO3	SCREW JACK BODY		4
71-3	1	MP 51-401-26	3ABO3	SCREW JACK COLLAR		4
71-4	1	MP 51-400-43	3ABO3	SCREW JACK BASE PLATE		4
71-5	1	MP 51-400-59-B	3ABO3	PIN		4
71-6	1	MP 51-400-95-A	3ABO3	PIN		2
71-7	1	MP 51-401-28	3ABO3	PIN		2
71-A7	1	COMMERCIAL		BOLT 3/4" X 2 LG, NUT, LW		8
71-B0	1	COMMERCIAL		COTTER PIN 3/16" X 1 1/4" LG		4
71C0	1	COMMERCIAL		QUICK PIN 1/4"		10



HEAD



TAIL

Figure 71 - Screw Jack Assembly

**FIGURE 72  
GATE PIVOT GREASE LINES**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-44		GATE PIVOT GREASE LINES	Fig 72	
72-1	1	COMMERCIAL		1/4" NPT MALE -1/4" NPT FEM SWIVEL ADAPTER		
72-2	1	COMMERCIAL		1/4" LOW PRESSURE HOSE X 85" LG		2
72-3	1	COMMERCIAL		1/8" ZERK C\W 1/4" NPT MALE END		2

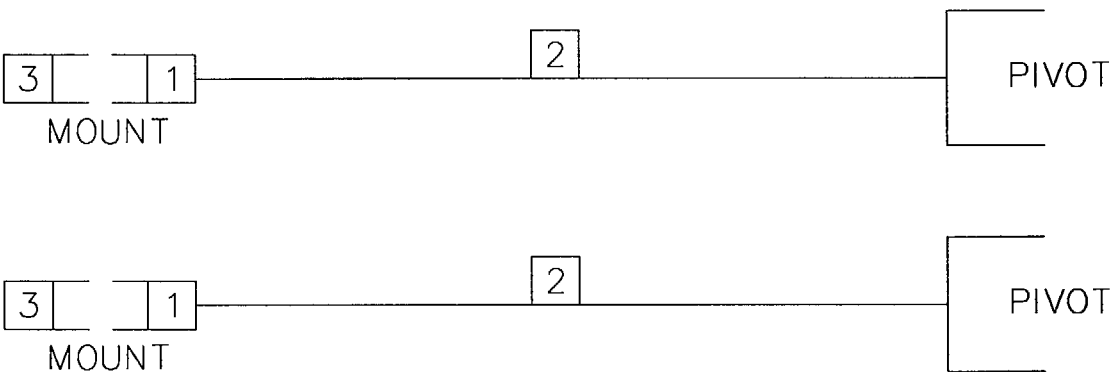


Figure 72 - Gate Pivot Grease Lines

**FIGURE 73  
CONVEYOR BEARINGS GREASE LINES**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-21		CONVEYOR BEARINGS GREASE LINES	Fig 73	
73-1	1	COMMERCIAL		1/4" PIPE COUPLING		12
73-2	1	COMMERCIAL		SWIVEL BUSHING		1
73-3	1	COMMERCIAL		SWIVEL REDUCER BUSHING		5
73-4	1	COMMERCIAL		SINGLE TUBE CLAMP		9
73-5	1	COMMERCIAL		DOUBLE TUBE CLAMP		6
73-6	1	PF 10-802-15	3ABO3	1/8" X 45 DEG GREASE FITTING		6
73-7	1	H2 91-804-22	3ABO3	1/4"ID LOW PRESS HOSE X 20"L		6
73-8	1	PF 92-804-51	3ABO3	1/4" TO 1/8" REDUCER BUSHING		6

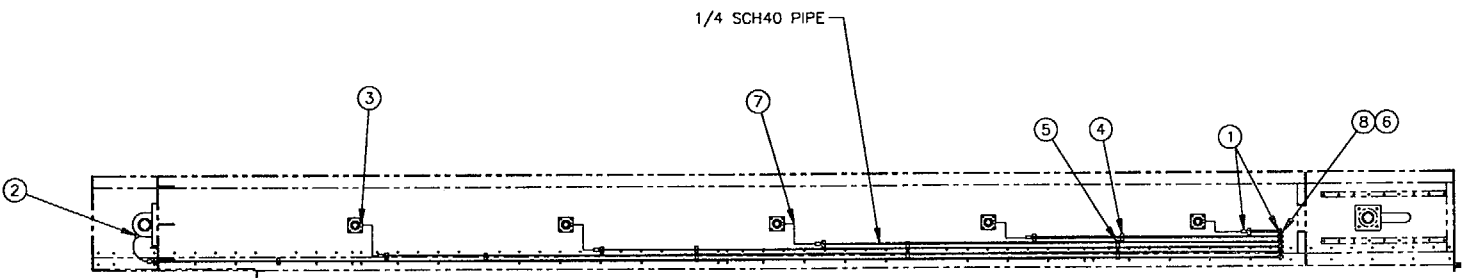


Figure 73 - Conveyor Bearings Grease Lines



**FIGURE 74  
SINGLE DECK SCREEN**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-98		SINGLE DECK SCREEN	Fig 74	1
74-1	1	51-400-84	3ABO3	SINGLE DECK TOP FRAME		1
74-2	1	MP 03-408-95	3ABO3	SHAFT HOUSING		1
74-6	1	MP 03-402-27	3ABO3	BEARING HOUSING		2
74-10	1	MP 03-410-81	3ABO3	SCREEN SHAFT		1
74-11	1	B2 24370	80201	BEARING SEAL (TYPE CRWH1)		2
74-12	1	B2 22311BV51	1C960	BEARING		2
74-13	1	B2 21173	80201	BEARING SEAL (TYPE CRWHA1)		2
74-14	1	MP 03-131-32	3ABO3	SEAL RETAINER PLATE		2
74-16	1	COMMERCIAL		LINE 1/4" C/W 1/4" NPT MALE BOTH ENDS X 9"		2
74-17	1	MP 03-411-66	3ABO3	GREASE NIPPLE MOUNT		2
74-18	1	COMMERCIAL		GREASE NIPPLE 1/4" NPT X 90 DEG		2
74-21	1	MP 03-402-26	3ABO3	OFFSET WEIGHT PULLEY		2
74-22	1	MP 03-131-30	3ABO3	OFFSET WEIGHT		8
74-27	1	D3 117096	71956	2517 X 2 1/8" BUSHING		2
74-29	1	MP 03-411-27	3ABO3	OFFSET PULLEY GUARD		2
74-32	1	MP 03-904-11	3ABO3	DECK CHANNEL RUBBER		3
74-33	1	AP 03-414-96	3ABO3	SCREEN 35" OB X 96" X 1 1/2" X .3125 WIRE		1
74-34	1	MP 03-181-21	3ABO3	SCREEN CLAMP		2
74-A0	1	COMMERCIAL		CARRIAGE HEAD BOLT 5/8" X 4" LG, NUT, FW, LW		18
74-C5	1	COMMERCIAL		BOLT 1/2" X 2 1/2" LG, NUT, LW		16
74-D5	1	COMMERCIAL		BOLT 1/2" X 3 1/2" LG, NUT, LW		4
74-E5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, LW		12
74-F5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW		12
74-G3	1	COMMERCIAL		BOLT 3/8" X 1 3/4" LG, NUT, LW		12
74-H3	1	COMMERCIAL		BOLT 3/8" X 1" LG, FW		2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
74-i3	1	COMMERCIAL		BOLT 3/8" X 3/4 LG, LW		4

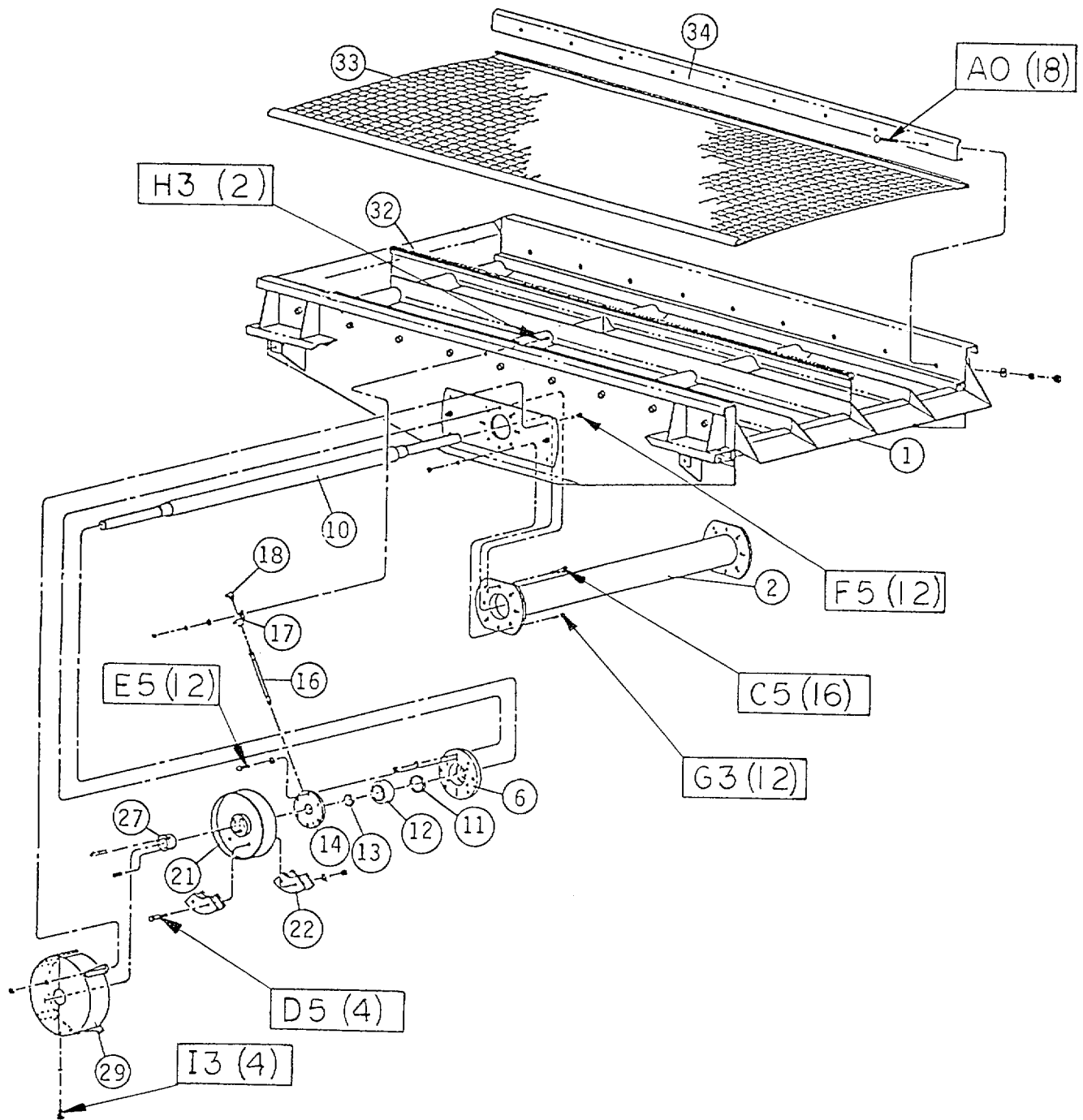


Figure 74 - Single Deck Screen

**FIGURE 75**  
**HYDRAULIC CYLINDER 4" BORE X 54" STROKE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	03-950-26		HYDRAULIC CYLINDER 4" BORE X 54" STROKE	Fig 75	
75-1	1	H2 90-400-80	3ABO3	CYLINDER		1
75-2	1	H2 90-410-27	3ABO3	CYLINDER ROD		1
75-3	1	H2 90-420-01	3ABO3	CYLINDER HEAD		1
75-4	1	H2 90-420-03	3ABO3	PISTON		1
75-5	1	COMMERCIAL		LOCK NUT 1" UNF		1
75-6	1	H2 10-951-01	3ABO3	SEAL KIT 4"BORE X 2" SHAFT		1

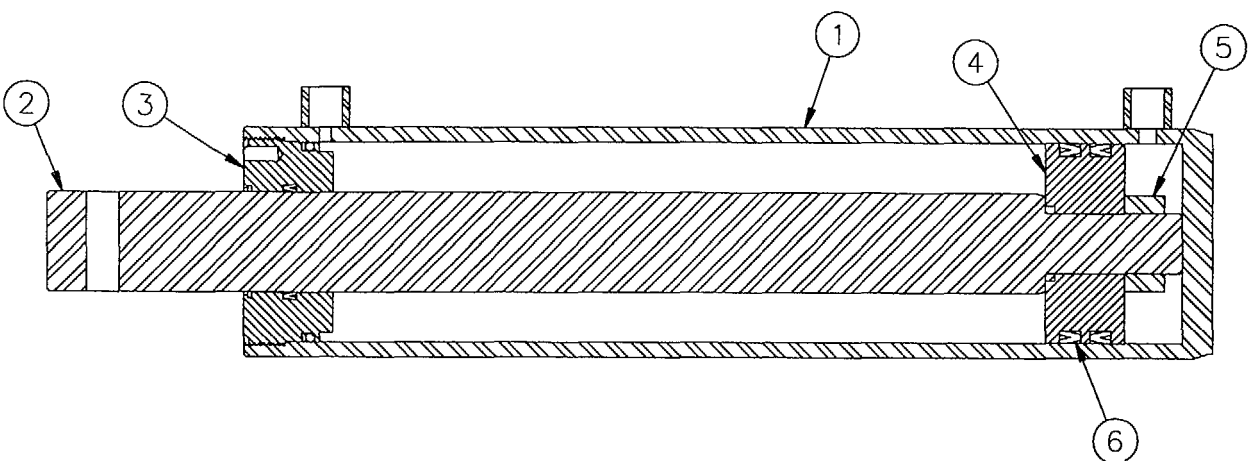


Figure 75 - Hydraulic Cylinder 4" Bore X 54" Stroke

**FIGURE 76  
LANDING JACK**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-72		LANDING JACK	Fig 76	1
76-1	1	C2 LG75-4A-113	74410	LANDING JACK SET		1
76-2	1	51-400-76	3ABO3	LANDING JACK CRANK STORAGE	Fig 61	1
76-A6	1	COMMERCIAL		BOLT 5/8" X 1 3/4"LG,NUT,LW		16
76-B5	1	COMMERCIAL		BOLT 1/2" X 1 3/4"LG,NUT,LW		2
76-CO	1	COMMERCIAL		LOCK PIN 3/8" X 2 1/2"		1

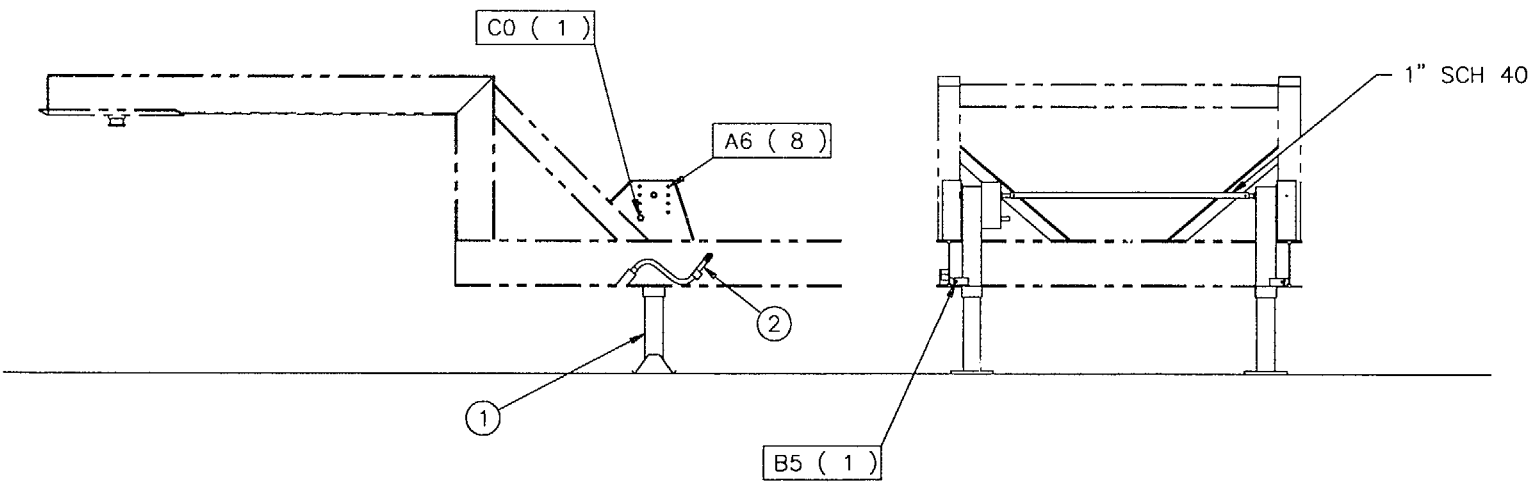


Figure 76 - Landing Jack

**FIGURE 77  
SUSPENSION ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-77		SUSPENSION ASSEMBLY	Fig 77	1
77-1	1	C2 46213B	41885	WHEEL 8.25 X 22.5		8
77-2	1	C2 10-911-56	74410	VALVE STEM		8
77-3	1	C2 135-802-002-0-000	74410	RADIAL TIRE 11R22.5		8
77-4	1	C2 D2FC167SWN810 11-77	0WXM9	AXLE	Fig C2	2
77-5	1	C2 21B-FAB-222-WB- 4-U-50-5592	99062	SUSPENSION	Fig C3	1



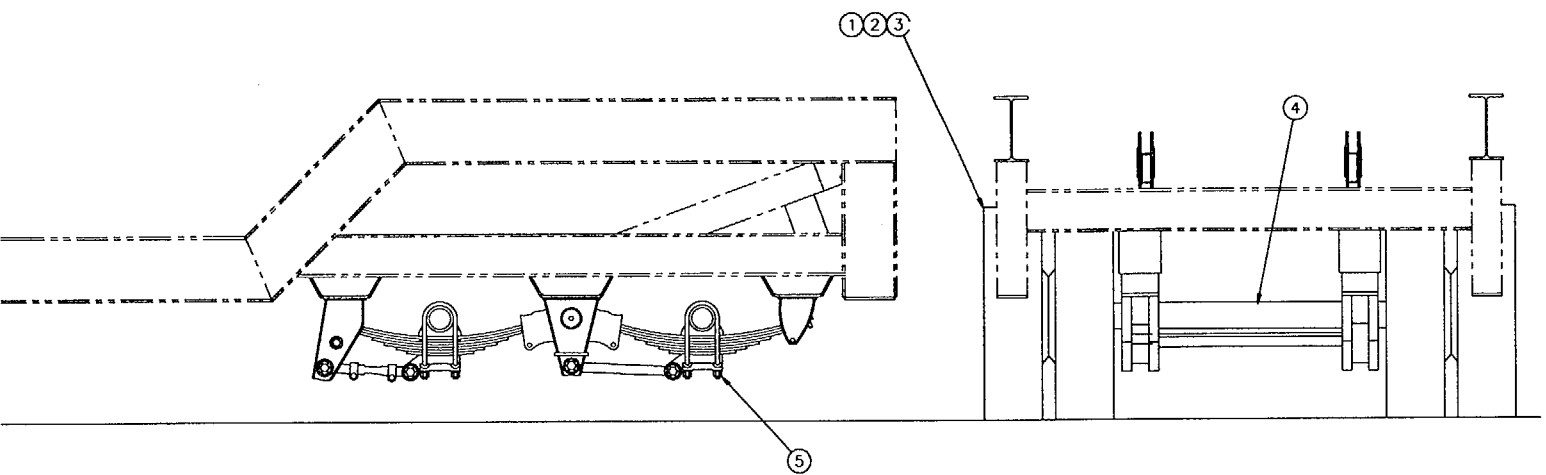
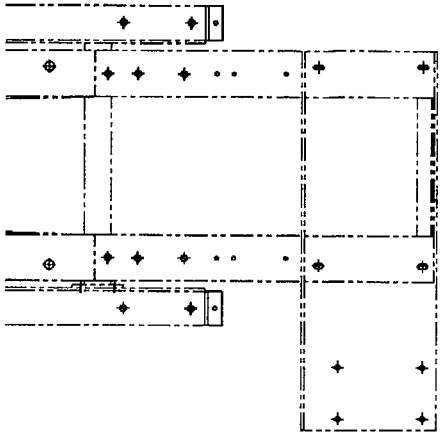


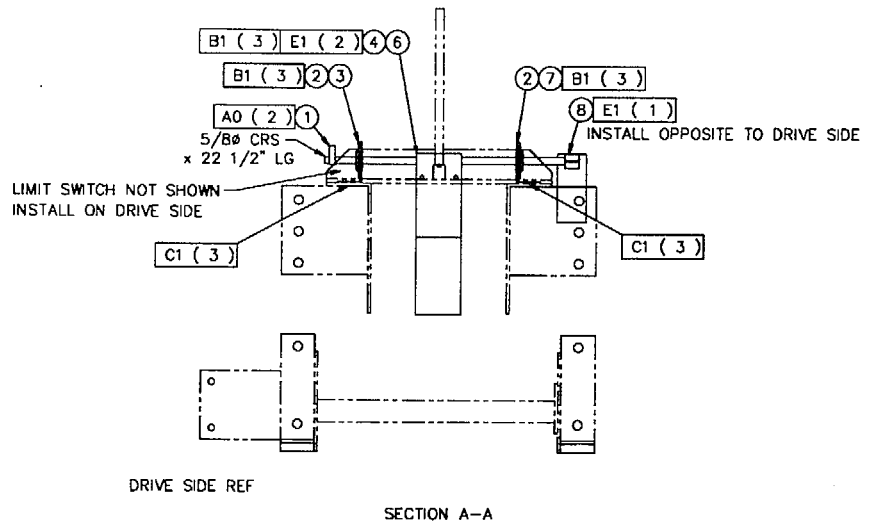
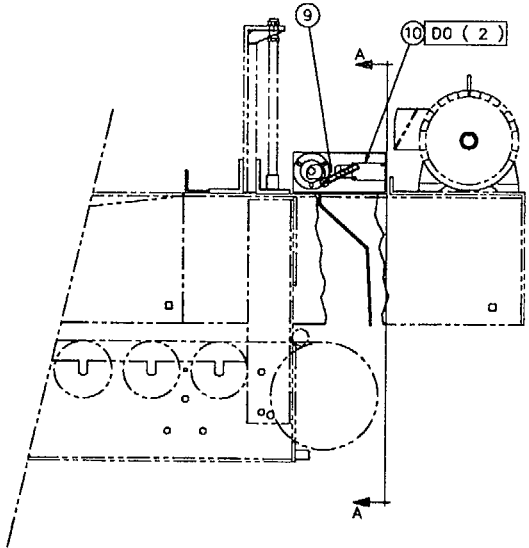
Figure 77 - Suspension Assembly

**FIGURE 78  
FEEDER FLOW SWITCH ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-80		FEEDER FLOW SWITCH ASSEMBLY	Fig 78	4
78-1	1	MP 51-101-82	3ABO3	CAM DETAIL		4
78-2	1	B2 AELPF202-010	1C960	FLANGE BEARING		8
78-3	1	MP 51-100-01	3ABO3	BRACKET		4
78-4	1	MP 51-100-03	3ABO3	STOP ARM		4
78-6	1	MP 51-400-75	3ABO3	STOP ARM BRACKET		4
78-7	1	MP 51-100-02	3ABO3	BRACKET		4
78-8	1	MP 51-400-70	3ABO3	COUNTER WEIGHT		4
78-9	1	E4 802T-W2	0CGS1	LIMIT SWITCH LEVER		4
78-10	1	E4 802T-AP	0CGS1	LIMIT SWITCH		4
78-A0	1	COMMERCIAL		SET SCREW #8-32 UNC		8
78-B1	1	COMMERCIAL		BOLT 1/4" X 5/8" LG, NUT, LW		36
78-C1	1	COMMERCIAL		BOLT 1/4" X 3/4" LG, NUT, LW		24
78-D0	1	COMMERCIAL		MACHINE SCREW #10 X 1 3/4" LG, NUT, LW		8
78-E1	1	COMMERCIAL		BOLT 1/4" X 1 5/8" LG, NUT, LW		12



DRIVE SIDE REF



LIMIT SWITCH NOT SHOWN  
INSTALL ON DRIVE SIDE

INSTALL OPPOSITE TO DRIVE SIDE

DRIVE SIDE REF

SECTION A-A

Figure 78 - Feeder Flow Switch Assembly  
page 78 - 2

**FIGURE 79  
CONVEYOR BODY ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-86		CONVEYOR BODY ASSEMBLY	Fig 79	1
79-1	1	51-400-71	3ABO3	CONVEYOR TRUSS BODY		1
79-2	1	51-400-72	3ABO3	CONVEYOR CHANNEL BODY		1
79-3	1	C5 03-002-03	3ABO3	IDLER FRAME 20 DEGREE		7
79-4	1	C5 03-001-03	3ABO3	30" STEEL TROUGH ROLL		36
79-5	1	C5 X-221-66	3ABO3	RETAINER CLIP		72
79-6	1	MP 03-012-45V	3ABO3	DRIVE PULLEY 14" DIAMETER X 30"		1
79-7	1	MP 03-012-75	3ABO3	WINGED PULLEY 12" DIAMETER X 30"		1
79-8	1	MP 03-012-28	3ABO3	SNUB PULLEY 8" DIAMETER X 30"		2
79-9	1	D3 117125	71956	3020 X 2 7/16" BUSHING		6
79-10	1	D3 117175	71956	2517 X 2 3/16" BUSHING		4
79-11	1	B2 UELP212-207D1	1C960	PILLOW BLOCK BEARING		6
79-12	1	B2 UELP211-203D1	1C960	PILLOW BLOCK BEARING		4
79-13	1	C5 03-001-33	3ABO3	30" SELF CLEANING RETURN ROLL		3
79-14	1	C5 03-003-84	3ABO3	4 1/2" DROP RETURN BRACKET		2
79-15	1	C5 03-003-81	3ABO3	VERTICAL RETURN BRACKET L.H.		2
79-16	1	C5 03-003-82	3ABO3	VERTICAL RETURN BRACKET R.H.		2
79-17	1	MP 51-400-80	3ABO3	HINGE PIN		2
79-18	1	MP 03-022-11	3ABO3	HEAD PULLEY SHAFT		1
79-19	1	MP 03-420-63	3ABO3	PULLEY SHAFT		2
79-20	1	MP 51-410-01	3ABO3	SNUB PULLEY SHAFT		1
79-21	1	COMMERCIAL		2 PLY CONVEYOR BELT 30" X 107 FT LONG		107
79-22	1	C5 X-221-11	3ABO3	RETURN IDLER LOCK PLATE		6
79-23	1	MP 51-400-82	3ABO3	TAKE UP FRAME		1
79-24	1	C5 03-002-13	3ABO3	IDLER FRAME 35 DEGREE		5

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
79-25	1	MP 51-400-83	3ABO3	TAKE UP FRAME		1
79-26	1	MP 51-400-78	3ABO3	BEARING PLATE ASSEMBLY		2
79-27	1	MP 03-012-42C	3ABO3	DRUM PULLEY 12" DIAMETER X 30"		1
79-28	1	MP 51-410-02	3ABO3	SNUB PULLEY SHAFT		1
79-29	1	MP 51-401-21	3ABO3	TAKE UP ASSEMBLY		2
79-30	1	MP 51-200-30	3ABO3	BEARING MOUNT		2
79-A7	1	COMMERCIAL		BOLT 3/4" X 2" LG, NUT, MACH. W, LW		4
79-B7	1	COMMERCIAL		BOLT 3/4" X 3 " LG, NUT, MACH. W, LW		4
79-C0	1	COMMERCIAL		SQUARE HEAD SET SCREW 1/2" X 2" LG, JN		4
79-D5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, FW, LW, BW		24
79-E5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, FW, LW		24
79-F7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, MACH. W, LW		8
79-G3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, FW, LW		6
79-H5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, FW, LW		12
79-J7	1	COMMERCIAL		BOLT 3/4" X 3" LG, NL		2
79-K5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		12
79-L6	1	COMMERCIAL		NUT 5/8", LW		2
79-M5	1	COMMERCIAL		CARRIAGE HEAD BOLT 1/2" X 1 1/2" LG, NUT, FW		2

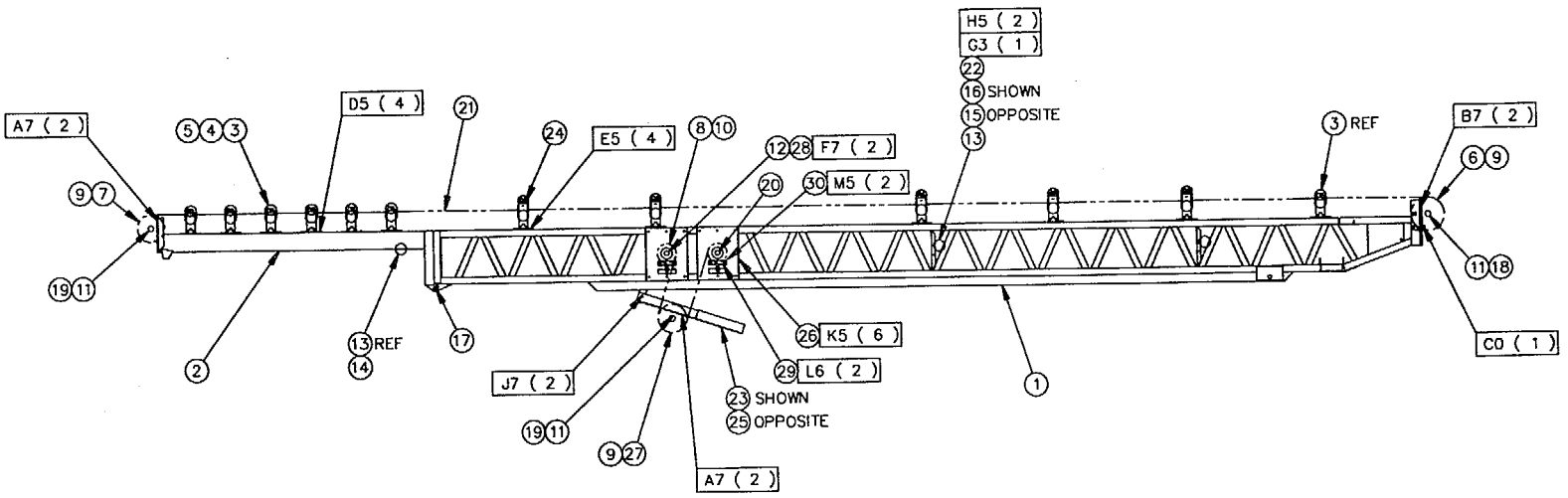


Figure 79 - Conveyor Body Assembly

**FIGURE 80**  
**VARIABLE FREQUENCY DRIVES**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-32		VARIABLE FREQUENCY DRIVES	Fig 80	
80-1	1	E4 ATV452-V22N	09710	TELEMECANIQUE VF INVERTER 3 HP	Fig C14	4
80-2	1	E4 ATV452-V40N	09710	TELEMECANIQUE VF INVERTER 5 HP	Fig C14	1

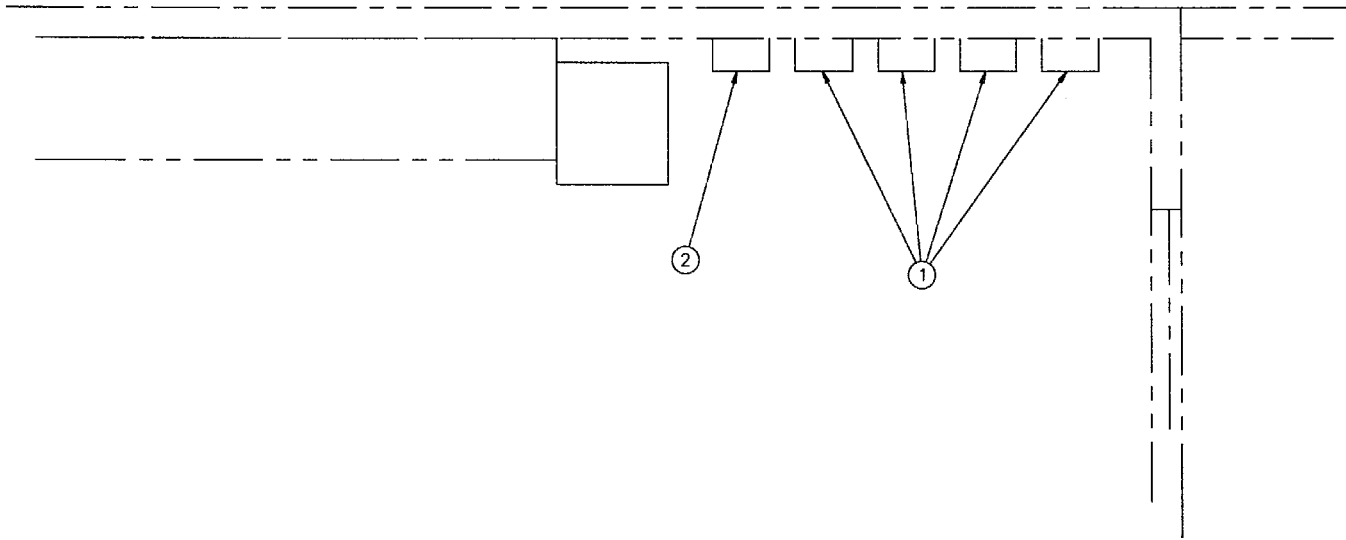


Figure 80 - Variable Frequency Drives



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-88		SUSPENSION ASSEMBLY	Fig 81	1
81-1	1	C2 135-802-002-0-000	73842	RADIAL TIRE 11R22.5		4
81-2	1	C2 46213B	41885	WHEEL 8.25 X 22.5		4
81-3	1	C2 TR-572-MS	73842	VALVE STEM		4
81-4	1	C2 D21FC167SWN81 011-71	0WXM9	AXLE	Fig C2	1
81-5	1	C2 21B-122-WB-13.25 -C-00-5592	99062	SUSPENSION	Fig C3	1

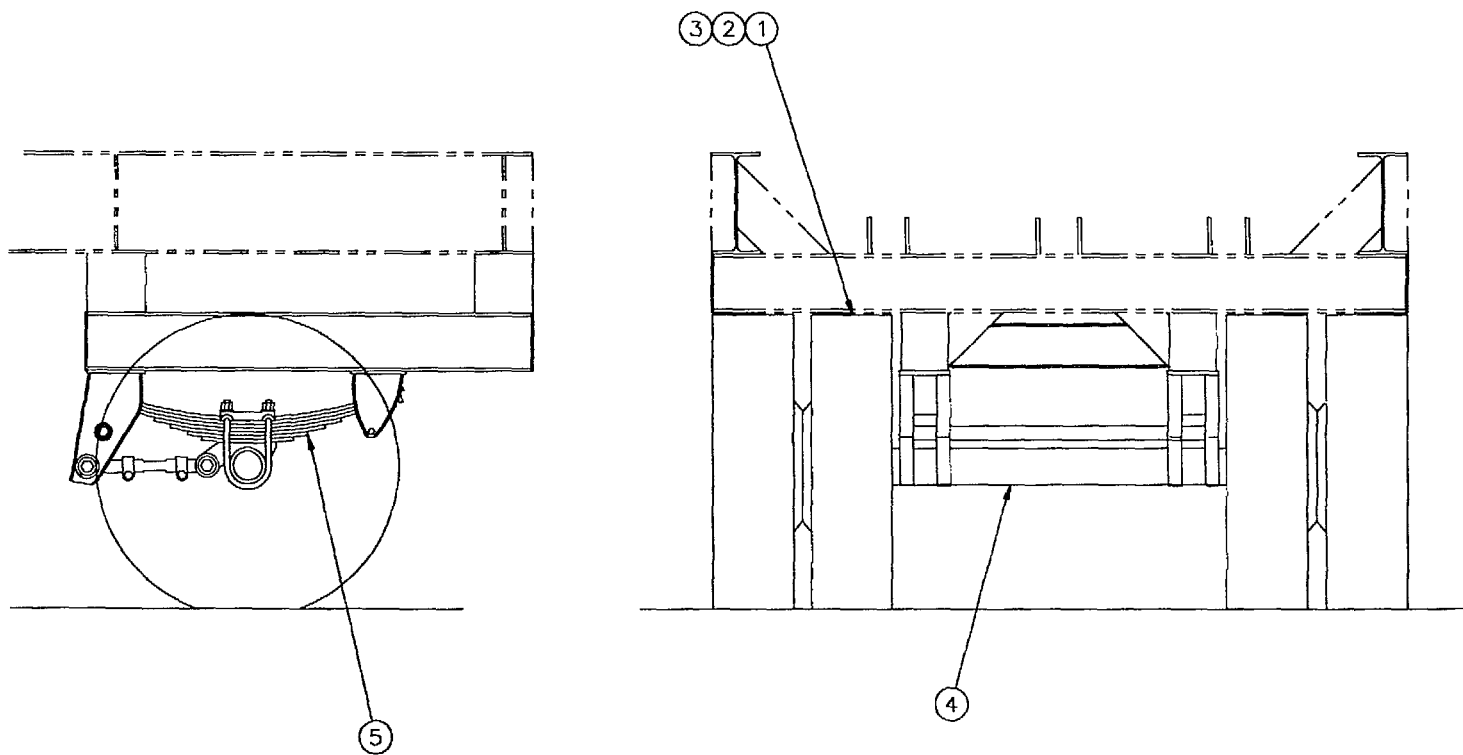


Figure 81 - Suspension Assembly  
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FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-89		CONVEYOR	Fig 82	
82-1	1	51-450-86	3ABO3	CONVEYOR BODY ASSEMBLY	Fig 79	1
82-2	1	51-450-90	3ABO3	CONVEYOR SCRAPER	Fig 83	1
82-3	1	51-450-92	3ABO3	DISCHARGE HOOD	Fig 84	1
82-4	1	51-450-93	3ABO3	CONVEYOR DRIVE ASSEMBLY	Fig 85	1
82-5	1	51-450-94	3ABO3	DRIVE GUARD	Fig 100	1
82-6	1	51-450-95	3ABO3	WIND GUARD	Fig 110	1
82-7	1	51-450-96	3ABO3	BELT SCALE	Fig 36	1
82-8	1	H2 03-950-03	3ABO3	HYDRAULIC CYLINDER 4" BORE X 48" STROKE	Fig 150	1
82-9	1	MP 51-400-85	3ABO3	CONVEYOR SUPPORT FRAME		1
82-10		MP 51-400-86	3ABO3	CONVEYOR SUPPORT TUBE		2
82-11	1	MP 03-409-87	3ABO3	TELESCOPING LOCK PIN ASSY		2
82-12	1	MP 51-202-03	3ABO3	MOUNT PIN		1
82-13	1	MP 03-400-32	3ABO3	TOP MOUNT PIN		1
82-14	1	MP 03-410-06	3ABO3	PIN		1
82-15	1	MP 03-400-31	3ABO3	TELESCOPING ARM SUPPORT PIN		2
82-16	1	51-401-12	3ABO3	FINAL CHASSIS ASSEMBLY		1
82-17	1	MP 51-111-06	3ABO3	TAKE UP WEIGHT		3
82-18	1	MP 51-402-22	3ABO3	TAKE UP NIP GUARDS		2
82-A5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW, FW, BW		2
82-B3	1	COMMERCIAL		BOLT 3/8" X 1 1/2" LG, SL		3
82-C3	1	COMMERCIAL		BOLT 3/8" X 2" LG, SL		5
82-D7	1	COMMERCIAL		BOLT 3/4" X 2" LG, NUT, LW		4

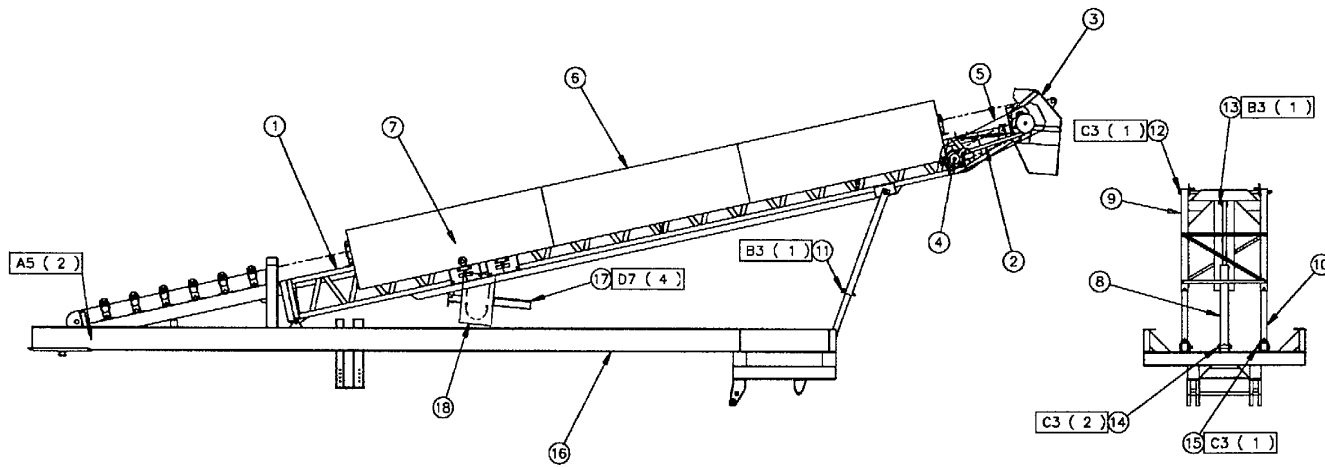


Figure 82 - -Conveyor

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-90		CONVEYOR SCRAPER	Fig 83	1
83-1	1	MP 03-409-15	3ABO3	30" CONVEYOR SCRAPER		1
83-2	1	MP 03-904-44	3ABO3	SCRAPER RUBBER		1
83-3	1	MP 03-221-35	3ABO3	SCRAPER BACKUP PLATE		1
83-4	1	MP 03-400-41	3ABO3	SCRAPER EXTRA WEIGHT		2
83-A5	1	COMMERCIAL		BOLT 1/2" X 3 1/2" LG, NL, FW (2)		2
83-B3	1	COMMERCIAL		BOLT 3/8" X 1 1/4" LG, JN		2
83-C3	1	COMMERCIAL		BOLT 3/8" X 1 1/2" LG, NUT, LW		4

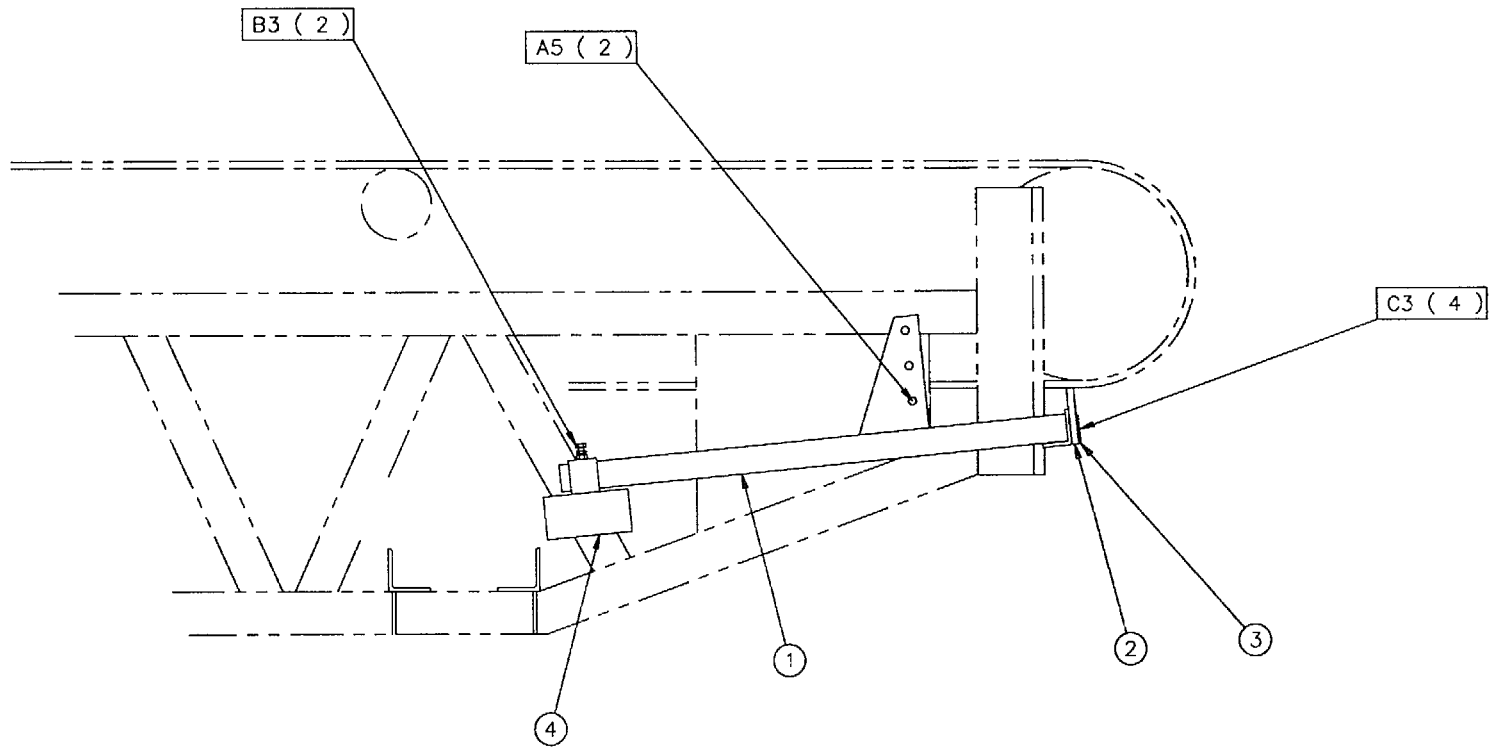


Figure 83 - Conveyor Scraper

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-92		DISCHARGE HOOD	Fig 84	1
84-1	1	MP 51-400-79	3AB03	DISCHARGE HOOD		1
84-2	1	MP 51-914-01	3AB03	DEFLECTOR RUBBER		1
84-3	1	MP 51-201-24	3AB03	BACK UP BAR		1
84-A5	1	COMMERCIAL		BOLT 1/2"X1 1/2"LG,NUT,LW		11

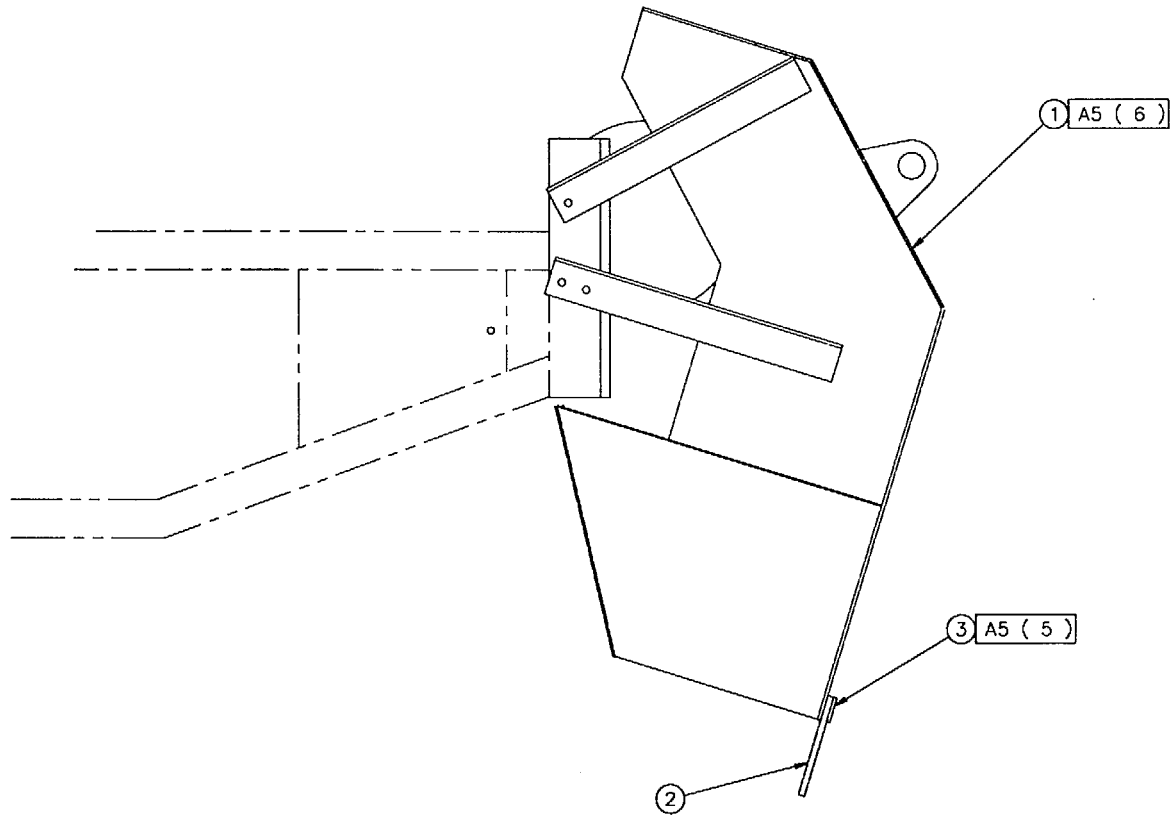


Figure 84 - Discharge Hood



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-93		CONVEYOR DRIVE ASSEMBLY	Fig 85	1
85-1	1	E3 KM156	36232	10HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
85-2	1	W2 6.8-2B-SDS	8D709	SHEAVE		1
85-3	1	SDS X 1 3/8	8D709	BUSHING		1
85-4	1	W2 11.0-2B-SK	8D709	SHEAVE		1
85-5	1	W2 SK X 1 7/16"	8D709	BUSHING		1
85-6	1	D2 244526	71956	TXT 415A DODGE REDUCER		1
85-7	1	W3 B120	8D709	DRIVE BELT		2
85-8	1	D2 244115	71956	TDT4 X 2 7/16 BUSHING KIT		1
85-9	1	D2 244106	71956	REDUCER BACKSTOP		1
85-A3	1	COMMERCIAL		BOLT 3/8" X 11/2" LG, NUT, LW, FW		4
85-B5	1	COMMERCIAL		BOLT 1/2" X 11/2" LG, NUT, LW, FW		2

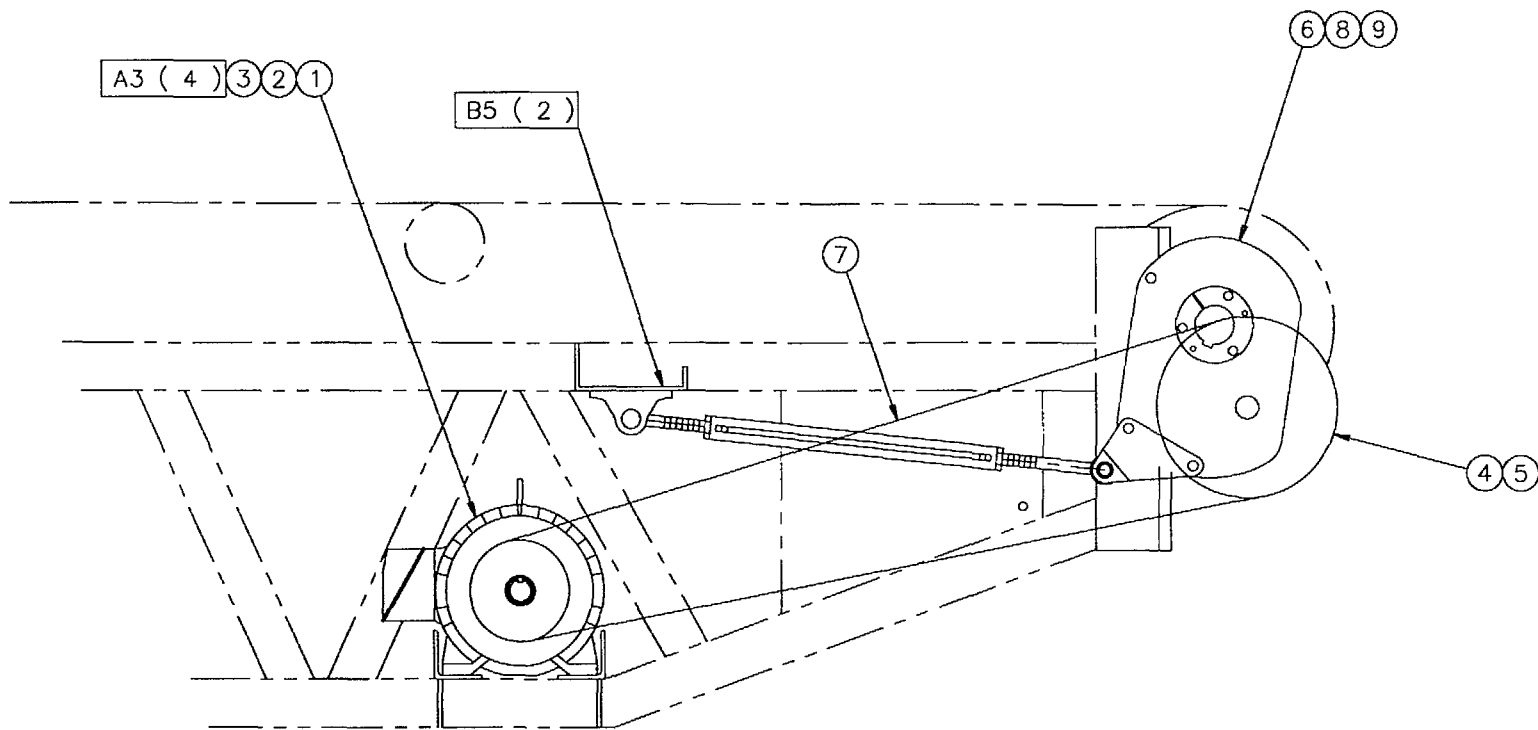


Figure 85 - Conveyor Drive Assembly

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-97		SCREEN ASSEMBLY	Fig 86	
86-1	1	51-450-98	3ABO3	SINGLE DECK SCREEN	Fig 74	1
86-2	1	MP 03-111-20	3ABO3	SKIRT CLAMP		3
86-3	1	MP 03-111-19	3ABO3	SKIRT CLAMP		2
86-4	1	MP 03-904-04	3ABO3	HOPPER END SKIRT		1
86-5	1	MP 03-221-26	3ABO3	SCREEN TRANSPORT BAR		4
86-6	1	MP 03-131-29	3ABO3	SPRING SPACER		8
86-7	1	MP 03-904-10	3ABO3	RUBBER SPACER SPRING		16
86-8	1	MP 03-904-17	3ABO3	SPRING CLAMP RUBBER		8
86-9	1	MP 03-905-03	3ABO3	SCREEN SPRING		4
86-10	1	MP 51-400-87	3ABO3	SCREEN BASE FRAME		1
86-11	1	MP 51-201-16	3ABO3	SKIRT CLAMP		2
86-12	1	MP 51-904-02	3ABO3	HOPPER SKIRTING		2
86-13	1	MP 51-401-23	3ABO3	SCREEN SUPPORT		1
86-14	1	51-401-31	3ABO3	SCREEN DRIVE MOUNT		1
86-15	1	51-451-11	3ABO3	SCREEN DRIVE	Fig 66	1
86-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		8
86-B0	1	COMMERCIAL		SQUARE HEAD SET SCREW 3/8" X 1 1/2" LG, JN		8
86-C0	1	COMMERCIAL		SQUARE HEAD SET SCREW 5/8" X 2 3/4" LG, JN		8
86-D5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		16
86-E5	1	COMMERCIAL		CARRIAGE HEAD BOLT 1/2" X 1 3/4" LG, NUT, FW, LW		17

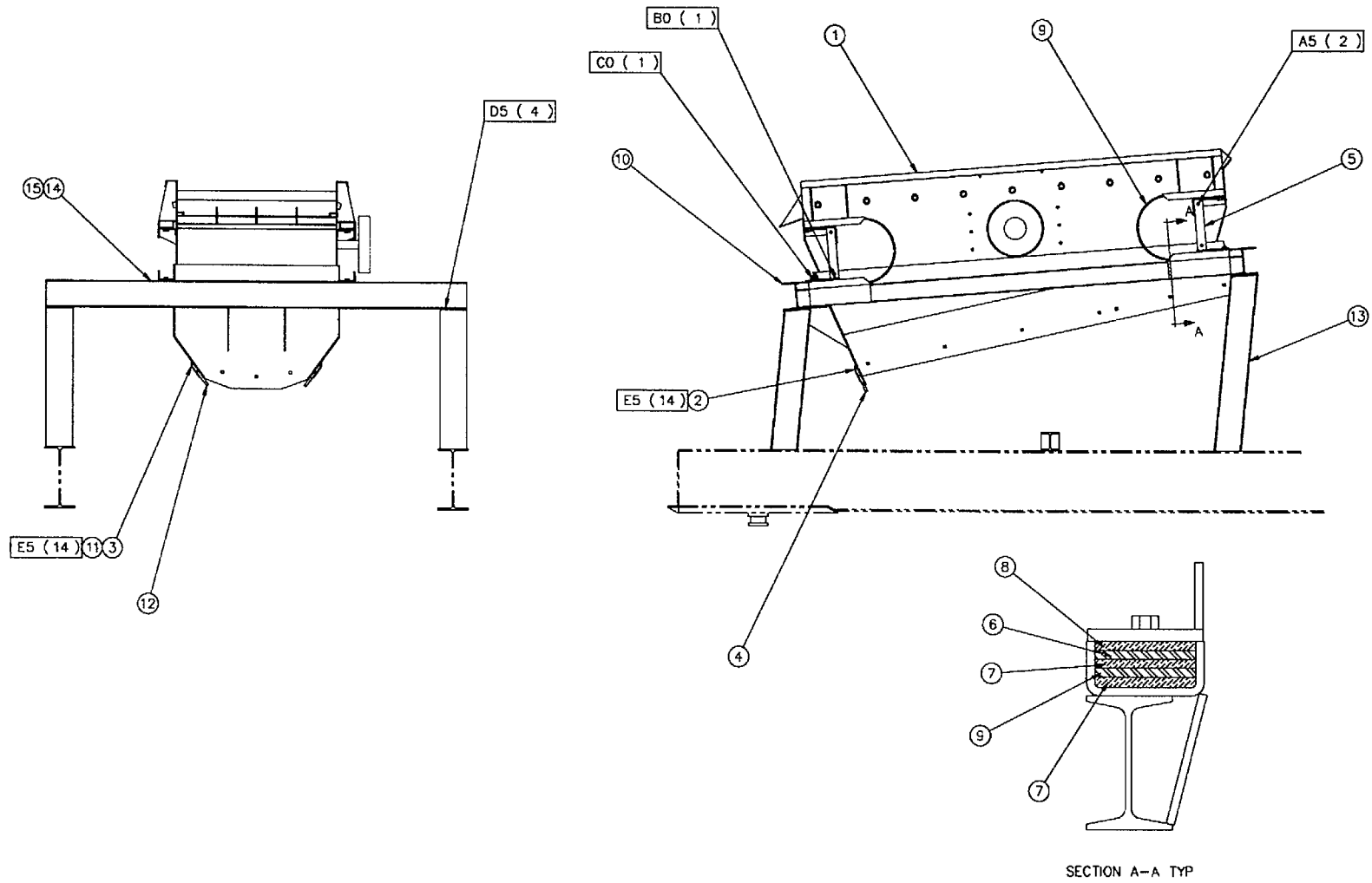


Figure 86 - Screen Assembly

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-450-99		SUSPENSION ASSEMBLY	Fig 87	1
87-1	1	C2 TR-572-MS	73842	VALVE STEM		8
87-2	1	C2 135-802-002-0-000	73842	RADIAL TIRE 11R22.5		8
87-3	1	C2 46213B	41885	WHEEL 8.25 X 22.5		8
87-4	1	C2 D21FC167SWN81 011-92	0WXM9	AXLE	Fig C2	2
87-5	1	C2 21B-FAB-222-WB- 13.25-C-50-5592	99062	SUSPENSION	Fig C3	1

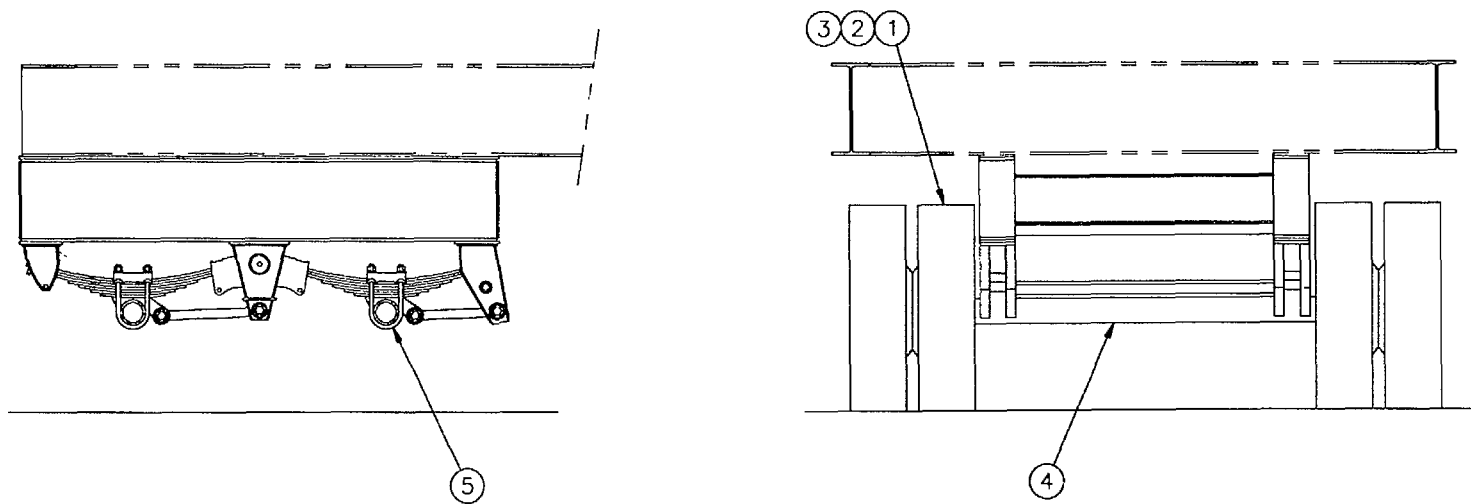


Figure 87 - Suspension Assembly

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-01		LANDING JACK	Fig 88	1
88-1	1	MP 51-401-06	3ABO3	CROSS MEMBER		2
88-3	1	C2 LG75-4A-113	74410	LANDING GEAR SET		1
88-A6	1	COMMERCIAL		BOLT 5/8" X 1 3/4" LG, NUTS, LW		16
88-B6	1	COMMERCIAL		BOLT 5/8" X 1 1/2" LG, NUTS, LW		4

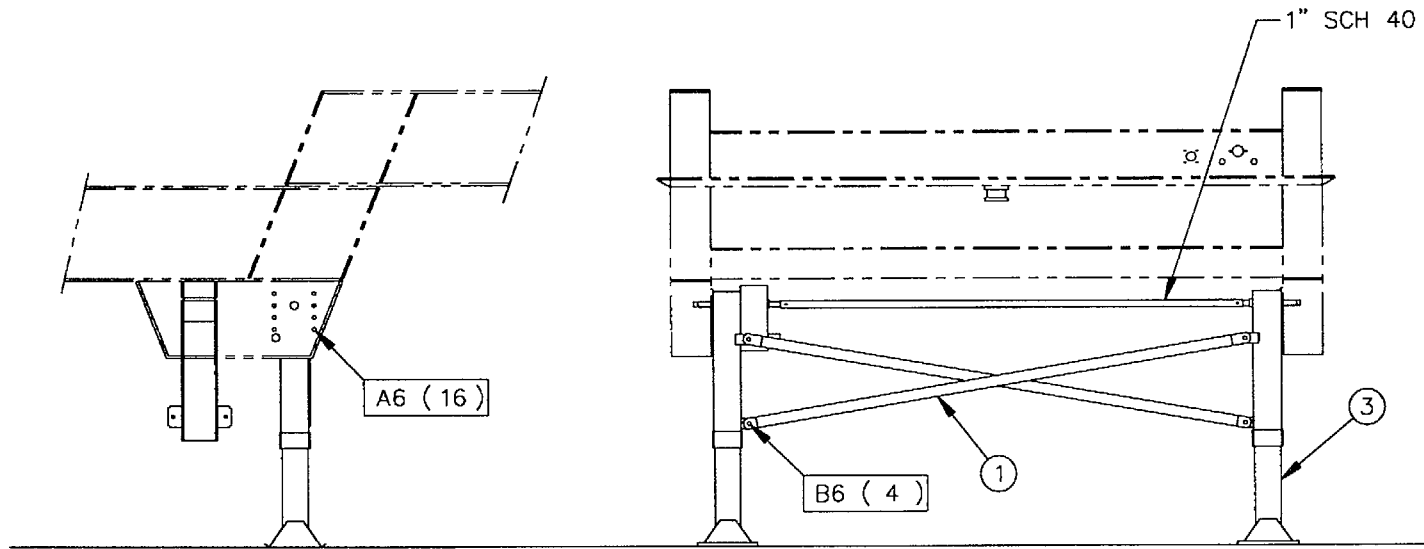


Figure 88 - Landing Jack



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-02		LANDING JACK	Fig 89	1
89-1	1	MP 51-200-50	3ABO3	BRACE		2
89-2	1	C2 LG75-4A-113	74410	LANDING GEAR SET		1
89-4	1	MP 51-200-49	3ABO3	BRACE		2
89-A6	1	COMMERCIAL		BOLT 5/8" X 2" LG, NUT, LW, FW		16
89-B6	1	COMMERCIAL		BOLT 5/8" X 1 3/4" LG, NUT, LW, FW		8

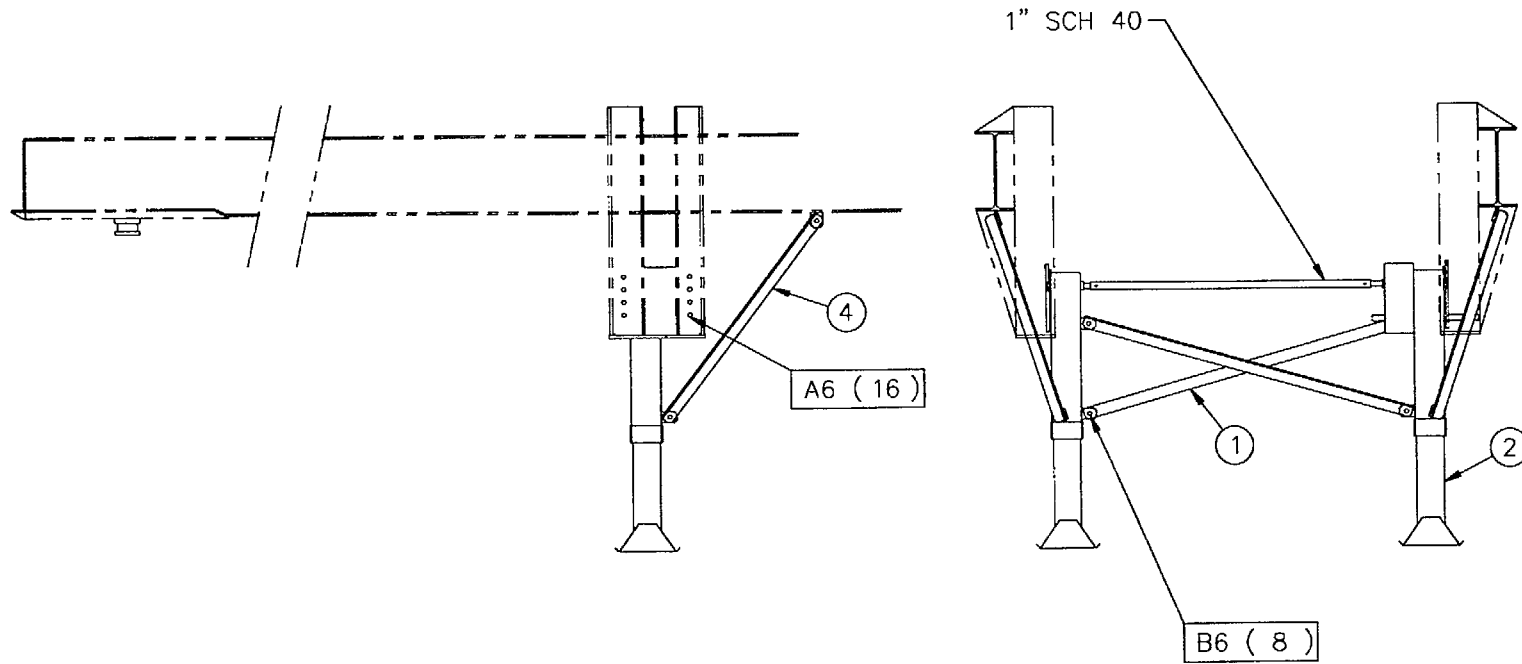
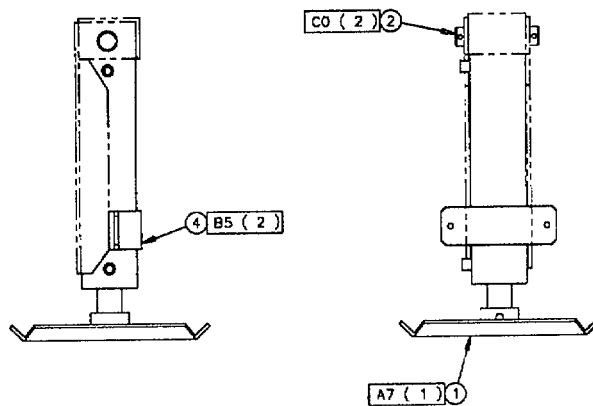
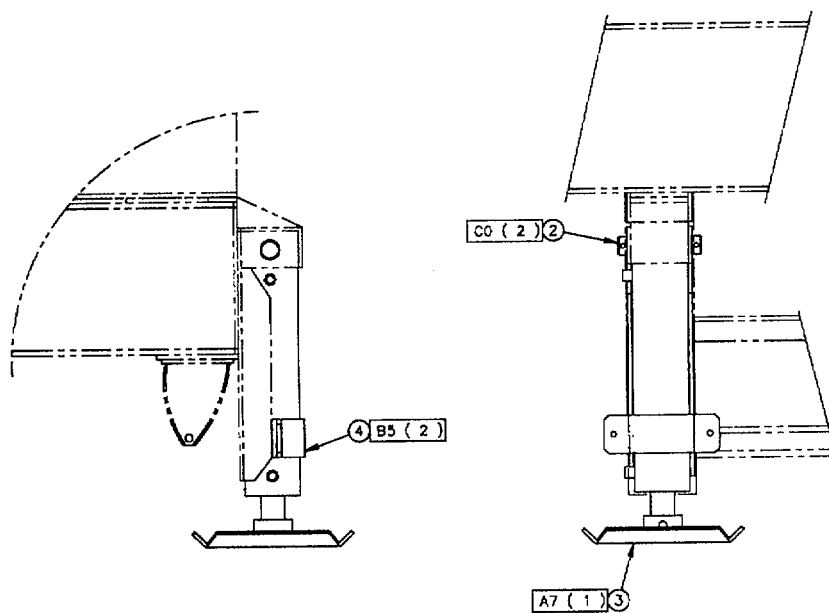


Figure 89 - Landing Jack

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-03		LEVELLING JACK 18" STROKE	Fig 90	2
90-1	1	MP 40-400-92	3ABO3	BASE PLATE HYDRAULIC JACK		2
90-2	1	MP 51-202-02	3ABO3	PIN		4
90-3	1	MP 51-400-64	3ABO3	BASE PLATE HYDRAULIC JACK		2
90-4	1	MP 51-400-67	3ABO3	CLAMP LIFT CYLINDER		4
90-A7	1	COMMERCIAL		BOLT 3/4" X 4 1/2" LG, NL		4
90-B5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW		8
90-C0	1	COMMERCIAL		COTTER PIN 3/8" X 3"		8



FRONT



TAIL END

Figure 90 - Leveling Jack 18" Stroke

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-04		SCREW JACK	Fig 91	1
91-1	1	MP 51-400-95	3ABO3	SCREW JACK TOP PLATE		4
91-2	1	MP 51-401-17	3ABO3	SCREW JACK COLLAR		2
91-3	1	MP 51-400-99	3ABO3	SCREW JACK BODY		2
91-4	1	MP 51-401-09	3ABO3	BASE PLATE		4
91-5	1	MP 51-400-45	3ABO3	SCREW JACK BODY		2
91-6	1	MP 51-400-59	3ABO3	PIN		4
91-7	1	MP 51-400-59	3ABO3	PIN		4
91-8	1	MP 51-400-95	3ABO3	PIN		4
91-9	1	MP 51-203-10	3ABO3	BRACE		2
91-A7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW		8
91-B0	1	COMMERCIAL		COTTER PIN 3/16" X 1 1/4" LG		8
91-C0	1	COMMERCIAL		QUICK-PIN 1/4"		12
91-D0	1	COMMERCIAL		QUICK-PIN 1/4"		2
91-E7	1	COMMERCIAL		BOLT 3/4" X 3 1/2" LG, NUT, LW		4

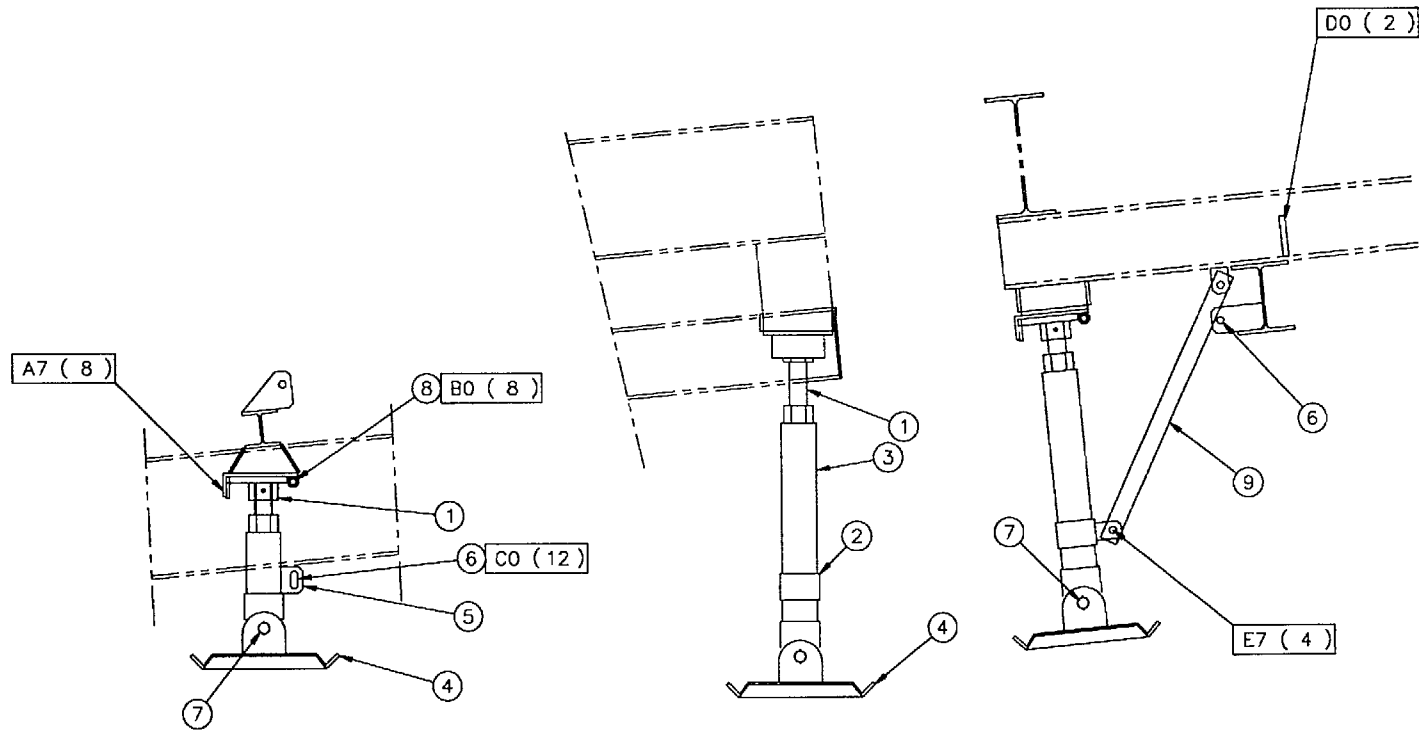


Figure 91 - Screw Jack

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-05		LEVELLING JACKS	Fig 92	1
92-2	1	MP 51-202-02	3ABO3	PIN		2
92-3	1	MP 51-401-09	3ABO3	BASE PLATE		2
92-9	1	MP 51-400-67	3ABO3	CLAMP LIFT CYLINDER		2
92-A7	1	COMMERCIAL		BOLT 3/4" X 8" LG, SL		2
92-B5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW		4
92-C0	1	COMMERCIAL		COTTER PIN 3/8" X 2 1/2" LG		4

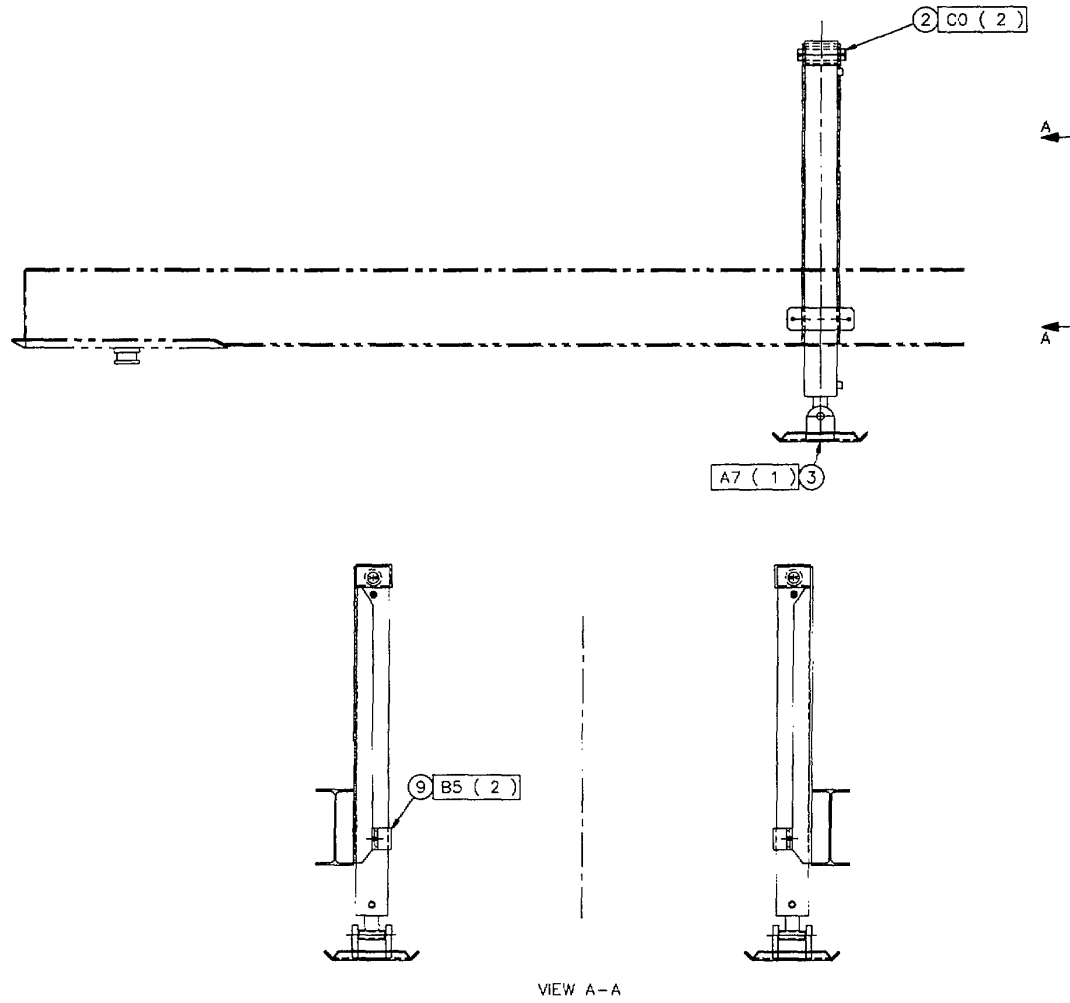


Figure 92 - Leveling Jacks



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	10-450-45		AIR BRAKE SYSTEM	Fig 93	
93-1	1	C2 N20405NB	06721	EMERGENCY GLAD HAND		1
93-2	1	C2 N20405PB	06721	SERVICE GLAD HAND		1
93-3	1	C2 1496-DC	36655	TERMINAL BOLT		2
93-4	1	COMMERCIAL		NYLON HOSE 3/8" AS REQUIRED		
93-5	1	C2 1469-6B	36655	3/8" TUBE - 1/4" MALE PIPE 90 DEG ELBOW		1
93-7	1	COMMERCIAL		1488 CUBIC INCH AIR TANK		1
93-8	1	COMMERCIAL		DRAIN COCK 1/4"		1
93-9	1	C2 N4305A	06721	VALVE		1
93-10	1	C2 AF103600	06721	RELAY VALVE		1
93-11	1	C2 14-493-P	06721	SPRING BRAKE		2
93-12	1	COMMERCIAL		BRAKE HOSE 3/8" AS REQUIRED		
93-14	1	C2 1472-6C	36655	FITTING		1
93-17	1	COMMERCIAL		CUSHIONED CLAMPS AS REQUIRED		
93-18	1	H2 2083-12-8S	01276	FITTING		1
93-22	1	C2 1469-6C	36655	3/8" TUBE - 3/8" MALE PIPE 90 DEG ELBOW		5
93-23	1	C2 1492-6C	36655	3/8" HOSE - 3/8" PIPE COUPLER		8
93-24	1	H2 2083-12-12S	01276	FITTING		1
93-25	1	COMMERCIAL		PIPE PLUG 3/8" NPT		5
93-26	1	C2 N13048A	06721	COVER		2

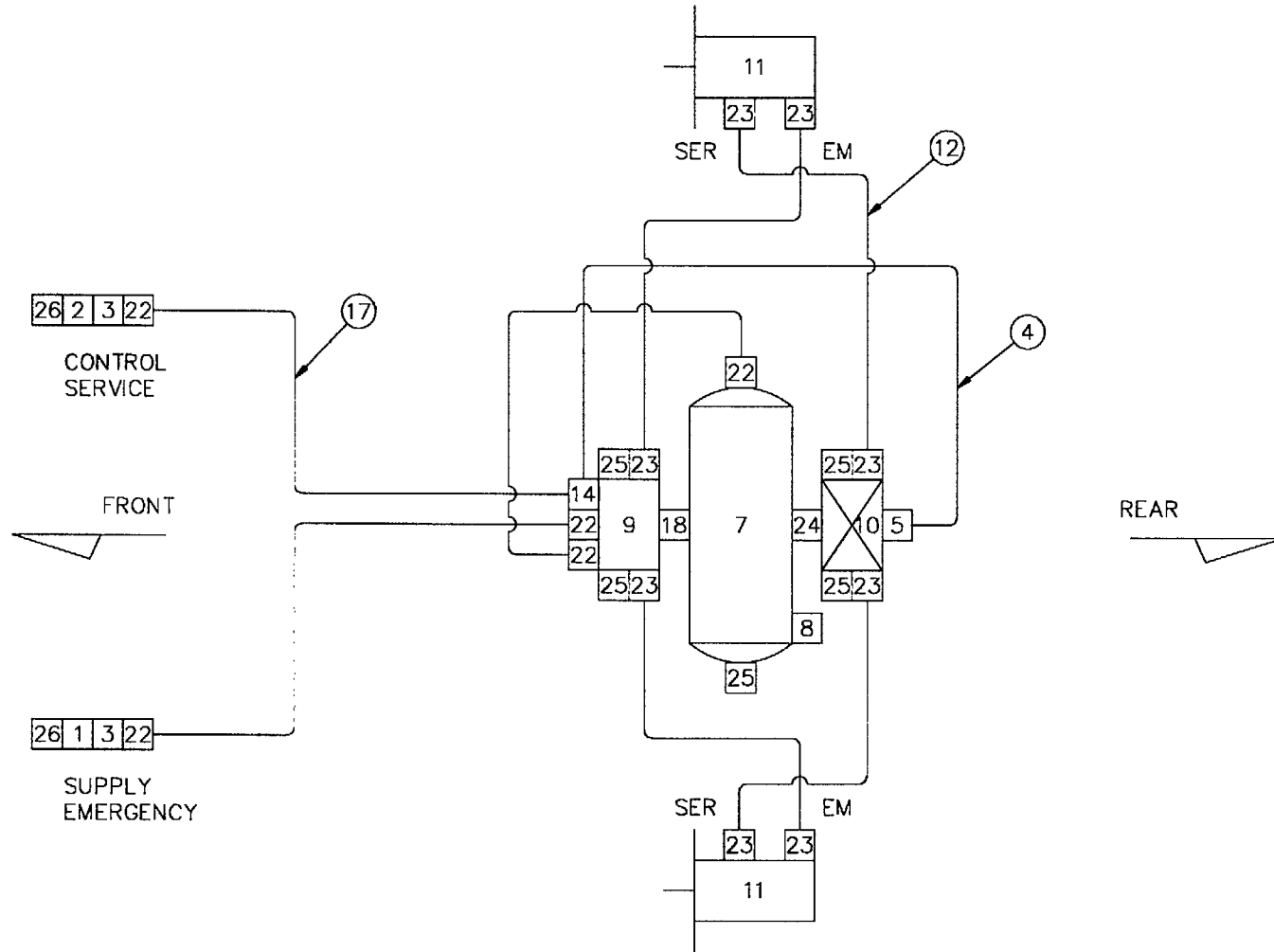


Figure 93 - Air Brake System

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	10-450-46		AIR BRAKE SYSTEM	Fig 94	
94-1	1	C2 N20405NB	06721	EMERGENCY GLAD HAND		1
94-2	1	C2 N20405PB	06721	SERVICE GLAD HAND		1
94-3	1	C2 1496-DC	36655	TERMINAL BOLT		2
94-4	1	COMMERCIAL		NYLON HOSE 3/8"(AS REQUIRED)		
94-5	1	C2 1469-6B	36655	3/8" TUBE - 1/4" MALE PIPE 90 DEG ELBOW		1
94-7	1	COMMERCIAL		AIR TANK (1488 CUBIC INCH)		2
94-8	1	COMMERCIAL		DRAIN COCK 1/4"		2
94-9	1	C2 N4305A	06721	VALVE		1
94-10	1	C2 AF103600	06721	RELAY VALVE		1
94-11	1	C2 14-493-P	06721	SPRING BRAKE		4
94-12	1	COMMERCIAL		BRAKE HOSE 3/8"(AS REQUIRED)		
94-14	1	C2 1472-6C	36655	FITTING		2
94-17	1	COMMERCIAL		CUSHIONED CLAMPS (AS REQUIRED)		
94-18	1	H2 2083-12-8S	01276	FITTING		1
94-22	1	C2 1469-6C	36655	3/8" TUBE - 3/8" MALE PIPE 90 DEG ELBOW		3
94-23	1	C2 1492-6C	36655	3/8"HOSE - 3/8" PIPE COUPLER		16
94-24	1	H2 2083-12-12S	01276	FITTING		2
94-25	1	COMMERCIAL		PIPE PLUG 3/8" NPT		2
94-26	1	C2 N13048A	06721	COVER		2

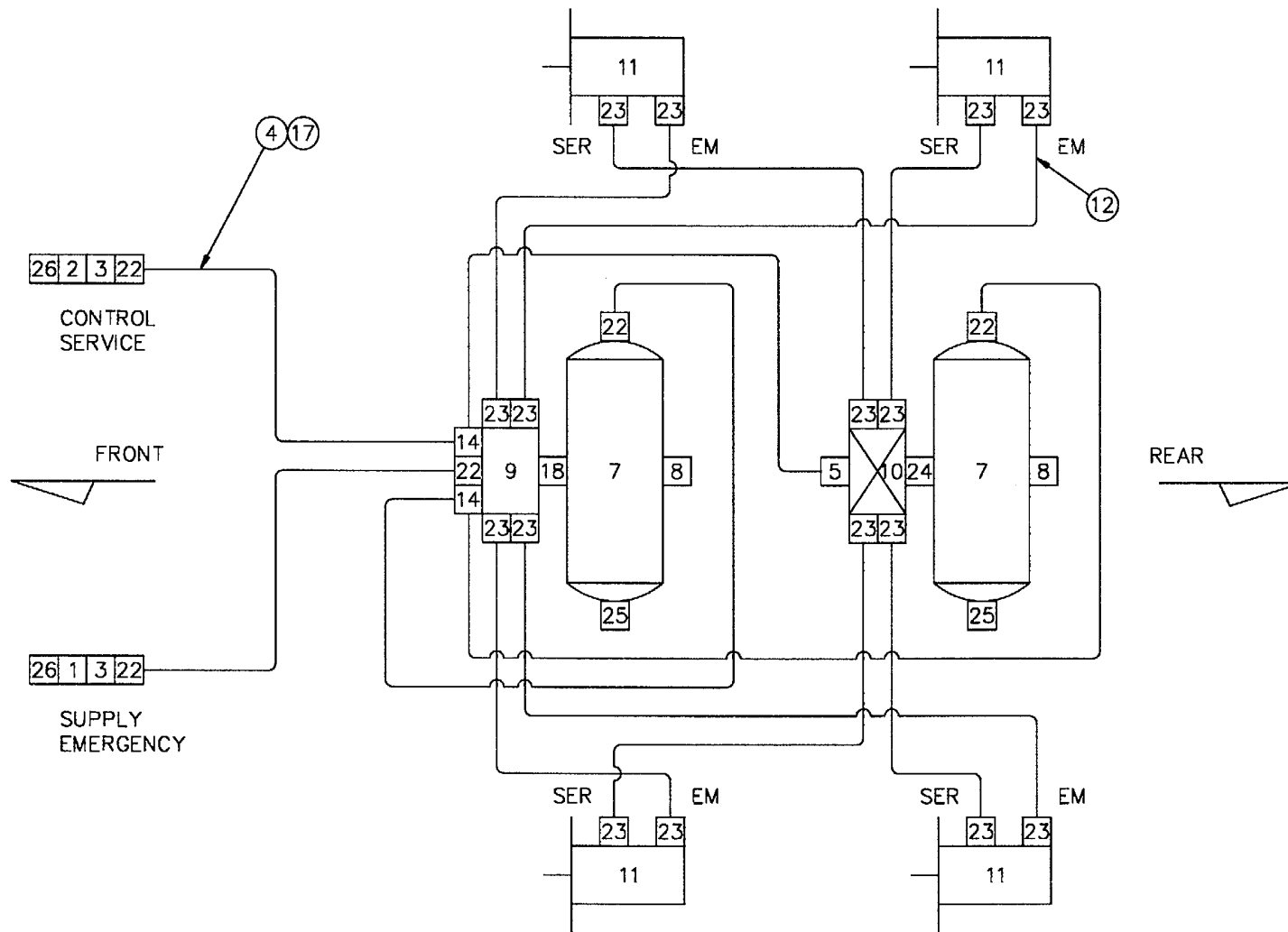


Figure 94 - Air Brake System

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	10-450-47		AIR BRAKE SYSTEM	Fig 95	
95-1	1	C2 N20405NB	06721	EMERGENCY GLAD HAND		1
95-2	1	C2 N20405PB	06721	SERVICE GLAD HAND		1
95-3	1	C2 1496-DC	36655	TERMINAL BOLT		2
95-4	1	COMMERCIAL		NYLON HOSE 3/8" AS REQUIRED		
95-5	1	COMMERCIAL		3/8" TUBE - 1/4" MALE PIPE 90 DEG ELBOW		2
95-6	1	C2 99-C	36655	FITTING		1
95-7	1	COMMERCIAL		AIR TANK		3
95-8	1	COMMERCIAL		DRAIN COCK 1/4"		3
95-9	1	C2 N4305A	06721	VALVE		1
95-10	1	C2 AF103600	06721	RELAY VALVE		2
95-11	1	C2 14-493-P	06721	SPRING BRAKE		6
95-12	1	COMMERCIAL		BRAKE HOSE 3/8" AS REQUIRED		
95-13	1	COMMERCIAL		NYLON HOSE 1/2" AS REQUIRED		
95-14	1	H2 2092-6-6S	01276	FITTING		1
95-15	1	COMMERCIAL		1/2" TUBE - 3/8" MALE PIPE CONNECTOR		2
95-16	1	C2 N20959E-A	06721	QUICK RELEASE VALVE		1
95-17	1	COMMERCIAL		CUSHIONED CLAMPS AS REQUIRED		
95-18	1	H2 2083-12-8S	01276	FITTING		1
95-19	1	COMMERCIAL		1/2" TUBE - 1/2" MALE PIPE 90 DEG ELBOW		1
95-20	1	COMMERCIAL		1/2" TUBE - 3/8" MALE PIPE 90 DEG ELBOW		3
95-21	1	COMMERCIAL		3/8" TUBE - 3/8" MALE PIPE CONNECTOR		3
95-22	1	COMMERCIAL		3/8" TUBE - 3/8" MALE PIPE 90 DEG ELBOW		5
95-23	1	COMMERCIAL		3/8" HOSE - 3/8" PIPE COUPLER		24

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
95-24	1	H2 2083-12-12S	01276	FITTING		2
95-25	1	COMMERCIAL		PLUG 3/8" NPT		5
95-26	1	C2 N13048A	06721	COVER		2
95-27	1	C2 X-115-C	36655	FITTING		2
95-28	1	C2 X-102-C	36655	FITTING		2
95-29	1	C2 122-C	36655	FITTING		1

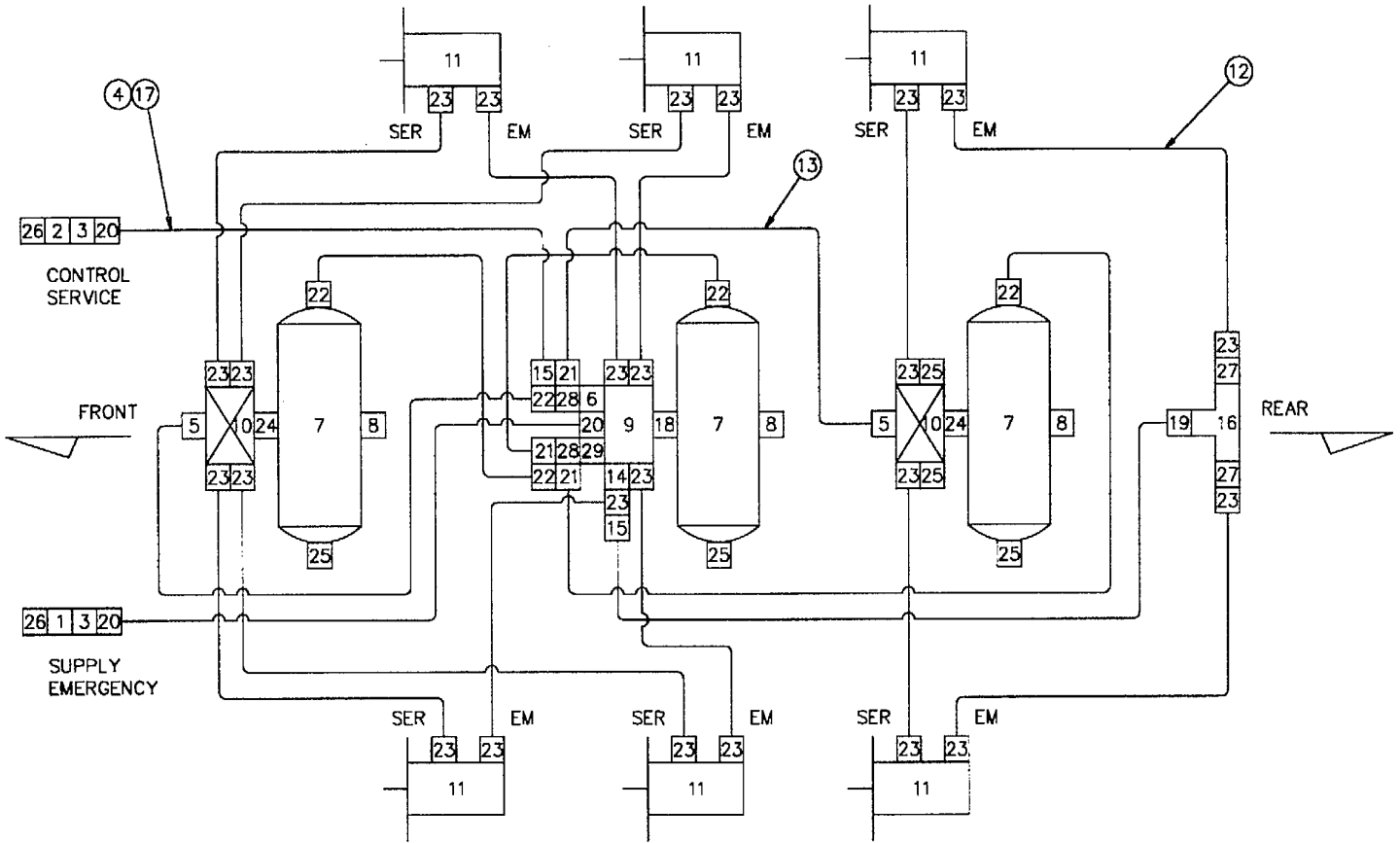


Figure 95 - Air Brake System

**FIGURE 96**  
**AIR BRAKE SYSTEM**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	10-450-59		AIR BRAKE SYSTEM	Fig 96	
96-1	1	C2 N20405NB	06721	EMERGENCY GLAD HAND		3
96-2	1	C2 N20405PB	06721	SERVICE GLAD HAND		3
96-3	1	C2 1496-DC	36655	TERMINAL BOLT		4
96-4	1	COMMERCIAL		NYLON HOSE 3/8" AS REQUIRED		
96-5	1	COMMERCIAL		3/8" TUBE - 1/4" MALE PIPE 90 DEG ELBOW		2
96-6	1	C2 99-C	36655	FITTING		1
96-7	1	COMMERCIAL		AIR TANK		3
96-8	1	COMMERCIAL		DRAIN COCK 1/4"		3
96-9	1	C2 N4305A	06721	VALVE		1
96-10	1	C2 AF103600	06721	RELAY VALVE		2
96-11	1	C2 14-493-P	06721	SPRING BRAKE		6
96-12	1	COMMERCIAL		BRAKE HOSE 3/8" AS REQUIRED		
96-13	1	COMMERCIAL		NYLON HOSE 1/2" AS REQUIRED		
96-15	1	COMMERCIAL		1/2" TUBE - 3/8" MALE PIPE CONNECTOR		3
96-16	1	C2 N20959E-A	06721	QUICK RELEASE VALVE		1
96-17	1	COMMERCIAL		CUSHIONED CLAMPS AS REQUIRED		
96-18	1	H2 2083-12-8S	01276	FITTING		1
96-19	1	COMMERCIAL		1/2" TUBE - 1/2" MALE PIPE 90 DEG ELBOW		1
96-20	1	COMMERCIAL		1/2" TUBE - 3/8" MALE PIPE 90 DEG ELBOW		6
96-21	1	COMMERCIAL		3/8" TUBE - 3/8" MALE PIPE CONNECTOR		3
96-22	1	COMMERCIAL		3/8" TUBE - 3/8" MALE PIPE 90 DEG ELBOW		5
96-23	1	COMMERCIAL		3/8" HOSE - 3/8" PIPE COUPLER		24
96-24	1	H2 2083-12-12S	01276	FITTING		2



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
96-25	1	COMMERCIAL		PLUG 3/8" NPT		5
96-26	1	C2 1492-8D	36655	FITTING		4
96-27	1	C2 N13048A	06721	COVER		6
96-28	1	C2 X102-C	36655	FITTING		2
96-29	1	C2 X115-C	36655	FITTING		2
96-30	1	C2 122-C	36655	FITTING		1
96-31	1	C2 2092-6-6S	01276	FITTING		1
96-32	1	COMMERCIAL		BRAKE HOSE 1/2" AS REQUIRED		

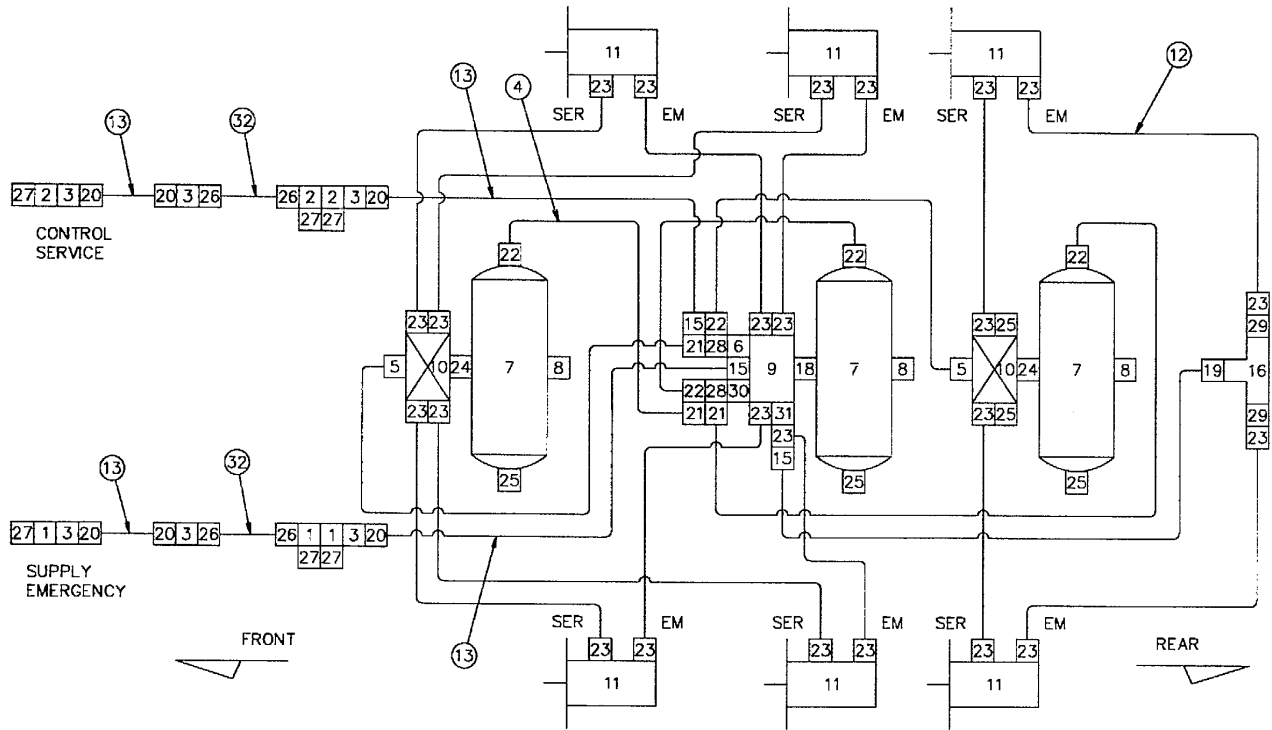


Figure 96 - Air Brake System

**FIGURE 97**  
**AIR BRAKE SYSTEM**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	10-450-61		AIR BRAKE SYSTEM	FIG 97	
97-1	1	C2 N20405NB	06721	EMERGENCY GLAD HAND		2
97-2	1	C2 N20405PB	06721	SERVICE GLAD HAND		2
97-3	1	C2 1496-DC	36655	FITTING		4
97-4	1	COMMERCIAL		NYLON HOSE 3/8"(AS REQUIRED)		
97-5	1	C2 1469-6B	36655	FITTING		1
97-7	1	COMMERCIAL		AIR TANK (1488 CUBIC INCH)		2
97-8	1	COMMERCIAL		DRAIN COCK 1/4"		2
97-9	1	C2 N4305A	06721	VALVE		1
97-10	1	C2 AF103600	06721	RELAY VALVE		1
97-11	1	C2 14-493-P	06721	SPRING BRAKE		4
97-12	1	COMMERCIAL		BRAKE HOSE 3/8"(AS REQUIRED)		
97-14	1	C2 2092-6-6S	36655	FITTING		2
97-17	1	COMMERCIAL		CUSHIONED CLAMPS (AS REQUIRED)		
97-18	1	C2 2083-12-8S	36655	FITTING		1
97-21	1	C2 1468-6C	36655	FITTING		3
97-22	1	C2 1469-6C	36655	FITTING		6
97-23	1	C2 1492-6C	36655	FITTING		16
97-24	1	C2 2083-12-12S	36655	FITTING		1
97-25	1	COMMERCIAL		PIPE PLUG 3/8" NPT		2
97-26	1	C2 N13048A	06721	COVER		4
97-27	1	C2 1472-6C	36655	FITTING		2

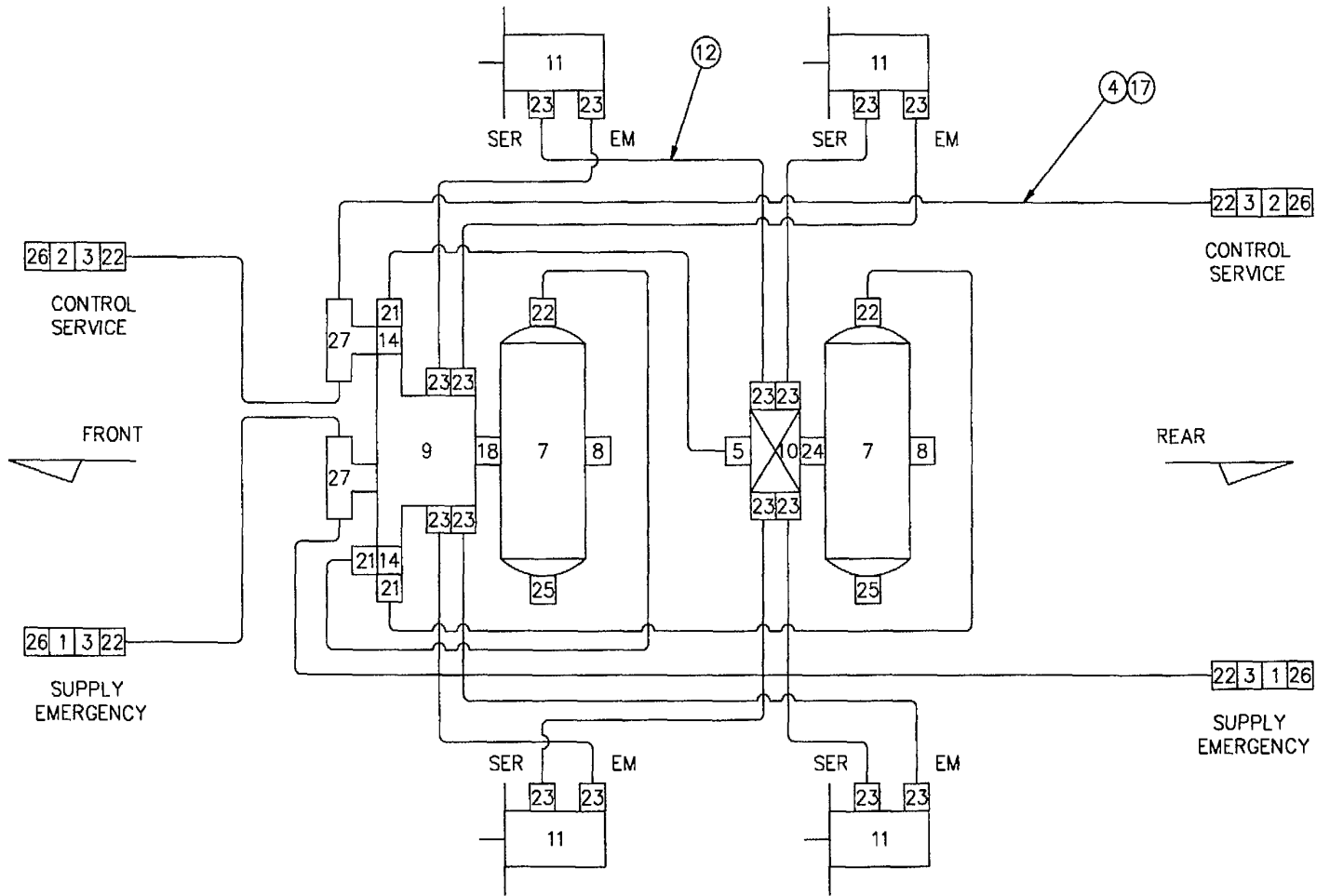


Figure 97 - Air Brake System

**FIGURE 98**  
**SCREW JACK**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-28		SCREW JACK	Fig 98	4
98-1	1	MP 51-400-45	3ABO3	SCREW JACK BODY		4
98-2	1	MP 51-400-44-C	3ABO3	SCREW JACK TOP PLATE		2
98-3	1	MP 51-401-09	3ABO3	BASE PLATE		4
98-4	1	MP 51-400-44-A	3ABO3	PIN		6
98-5	1	MP 51-400-59-B	3ABO3	PIN		6
98-6	1	MP 51-400-59-A	3ABO3	PIN		4
98-7	1	MP 51-400-95-B	3ABO3	SCREW JACK TOP PLATE		4
98-8	1	MP 51-400-00	3ABO3	SCREW JACK BODY		2
98-9	1	MP 51-401-17	3ABO3	SCREW JACK COLLAR		2
98-10	1	MP 51-400-43	3ABO3	BASE PLATE		2
98-A7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW		12
98-B0	1	COMMERCIAL		COTTER PIN 3/16" X 1 1/4"		12
98-C0	1	COMMERCIAL		QUICK-PIN 1/4"		18

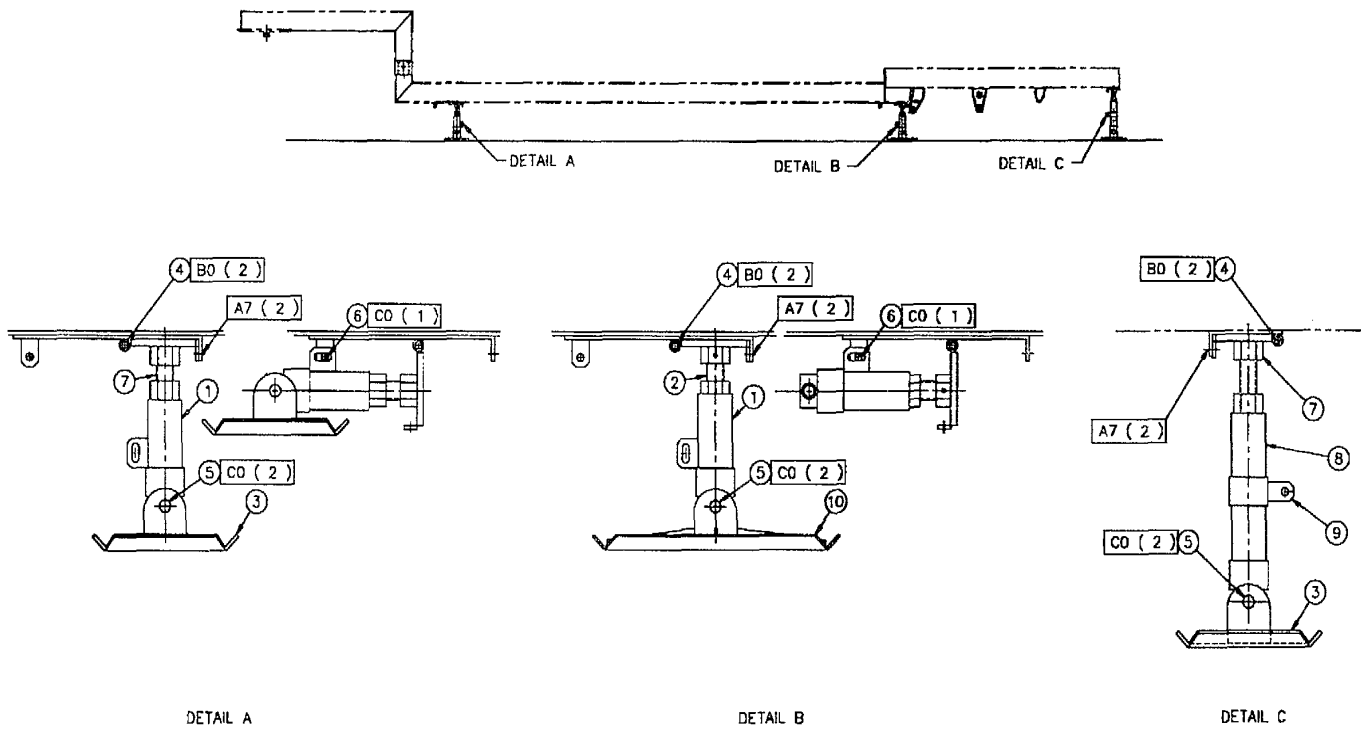


Figure 98 - Screw Jack

**FIGURE 99**  
**DRIVE GUARD**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-29		DRIVE GUARD	Fig 99	
99-1	1	MP 51-401-58	3ABO3	OUTSIDE GUARD ASSEMBLY		1
99-2	1	MP 51-401-59	3ABO3	INSIDE GUARD ASSEMBLY		1
99-A3	1	COMMERCIAL		BOLT 3/8" X 3/4" LG, NUT, LW		4
99-B3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW		4

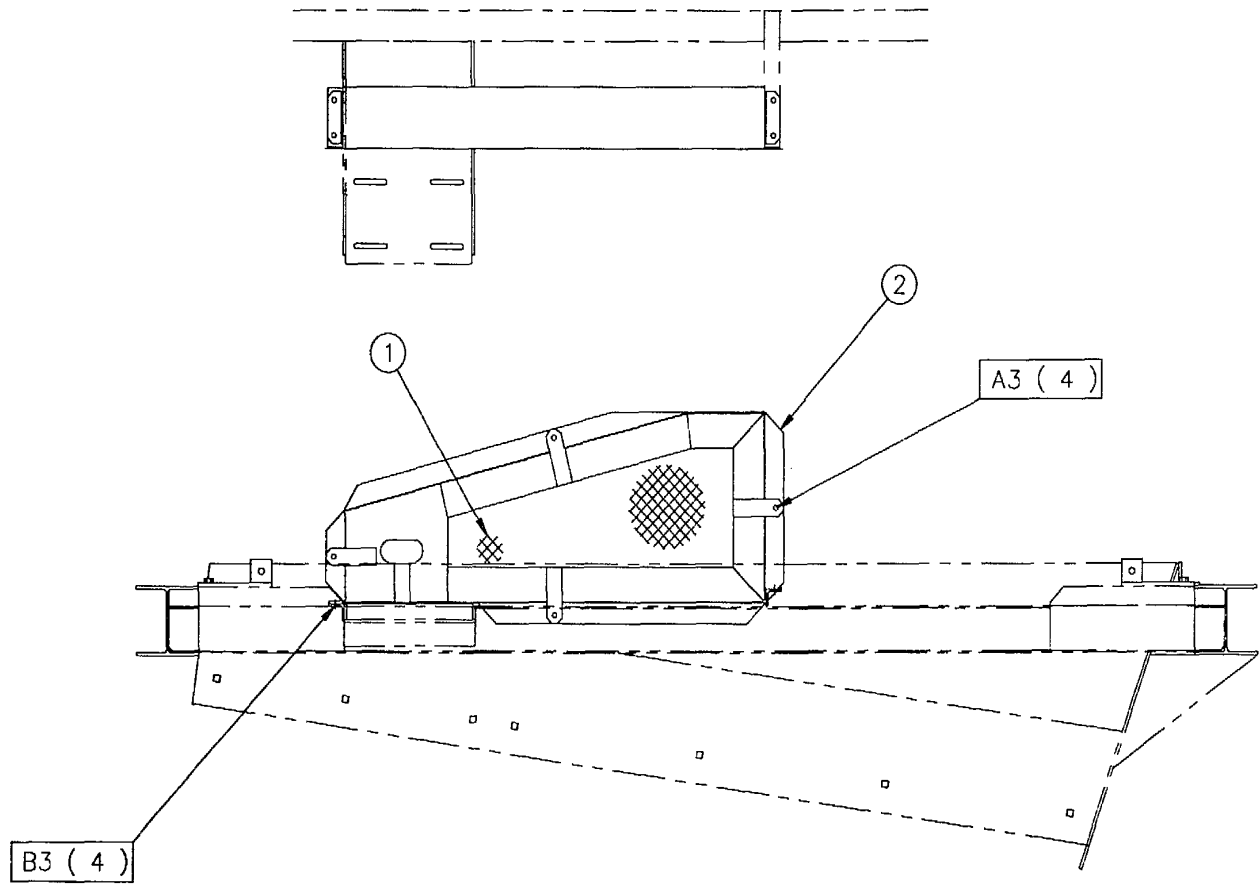


Figure 99 - Drive Guard



**FIGURE 100**  
**DRIVE GUARD**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-94		DRIVE GUARD	Fig 100	
100-1	1	51-401-57	3ABO3	GUARD MOUNT ASSEMBLY		1
100-2	1	MP 51-401-55	3ABO3	INSIDE GUARD		1
100-3	1	MP 51-401-56	3ABO3	OUTSIDE GUARD		1
100-A3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW		6
100-B3	1	COMMERCIAL		BOLT 3/8" X 3/4" LG, NUT, LW		4

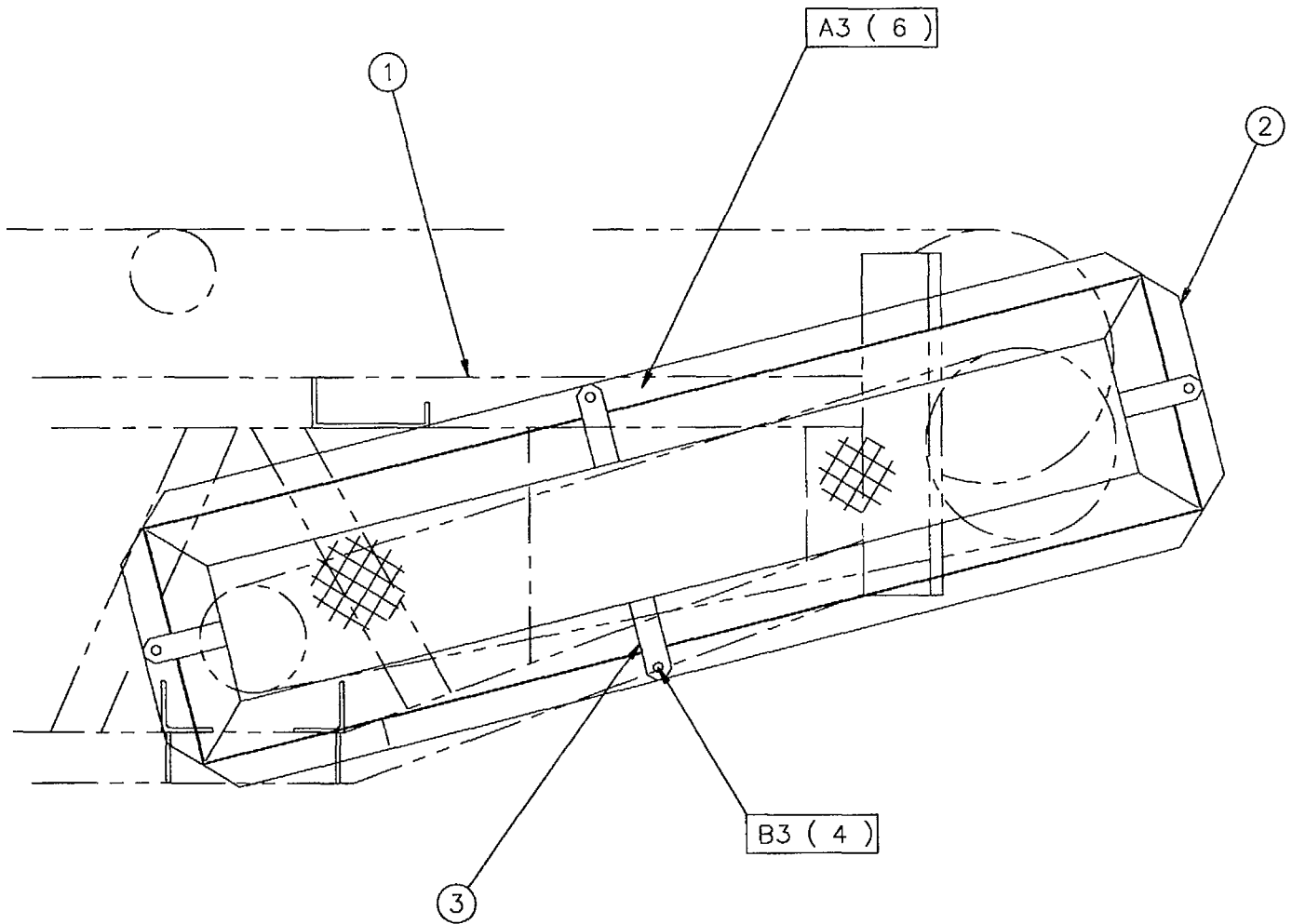


Figure 100 - Drive Guard

## FIGURE 101

## ELECTRICAL WIRING 12 VOLT AND 24 VOLT

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-41		ELECTRICAL WIRING 12V AND 24V	Fig 101	
101-1	1	E4 8376208	ON942	RECEPTACLE		1
101-2	1	COMMERCIAL		ELECTRIC CABLE 14\6C AS REQUIRED		
101-3	1	COMMERCIAL		ELECTRIC SOCKET BOOT		2
101-4	1	E4 MS 3976/1-01	SA910	RED MARKER LIGHT		2
101-5	1	E4 MS 51330-1-383	SA910	TAIL LAMP		2
101-7	1	E4 7722333	ON942	GROMMET		1
101-8	1	E4 7723309	ON942	GROMMET NUT		1
101-9	1	E4 7731428	ON942	COVER ASSEMBLY		1
101-10	1	E4 76-2125	ON942	JUNCTION BOX		1
101-11	1	E4 76-9135	2Y580	FITTING		1
101-12	1	E4 76-9134	2Y580	FITTING		2
101-13	1	COMMERCIAL		ELECTRIC CABLE 14\4C AS REQUIRED		
101-14	1	E4 61-450-40	3ABO3	TRANSFORMER 24V-12V		1
101-15	1	COMMERCIAL		ELECTRIC CABLE 14\12 AS REQUIRED		
101-16	1	E4 2922	59730	STRAIN RELIEF		3
101-17	1	E4 2932	59730	STRAIN RELIEF		1
101-18	1	COMMERCIAL		ELECTRIC SOCKET		1
101-19	1	COMMERCIAL		ELECTRIC SOCKET BOOT		1
101-20	1	COMMERCIAL		ELECTRIC CABLE 14/6C(AS REQUIRED)		
101-21	1	E4 73-7829	2Y580	SIDE MARKER LIGHT HOUSING		6
101-22	1	E4 73-5055	2Y580	RED SIDE MARKER LIGHT		2
101-23	1	E4 73-5056	2Y580	AMBER SIDE MARKER LIGHT		4
101-24	1	E4 71-6019	2Y580	RED REFLECTOR		2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
101-25	1	E4 71-6028	2Y580	AMBER REFLECTOR		4
101-26	1	E4 76-2125	2Y580	JUNCTION BOX		1
101-27	1	E4 70-0028	2Y580	DOUBLE TAIL LIGHT LEFT HAND		1
101-28	1	E4 70-0029	2Y580	DOUBLE TAIL LIGHT RIGHT HAND		1
101-29	1	E4 76-9135	2Y580	FITTING		1
101-30	1	E4 76-9134	2Y580	FITTING		2
101-31	1	E4 76-9133	2Y580	FITTING		2
101-32	1	E4 50331	2Y580	WIRING HARNESS		2
101-33	1	E4 50322	2Y580	WIRING HARNESS		2
101-34	1	E4 50319	2Y580	WIRING HARNESS		2
101-36	1	E4 MS 75021-2	SA910	RECEPTACLE		1
101-37	1	AP53-450-04	SA910	INTERVEHICULAR CABLE		1

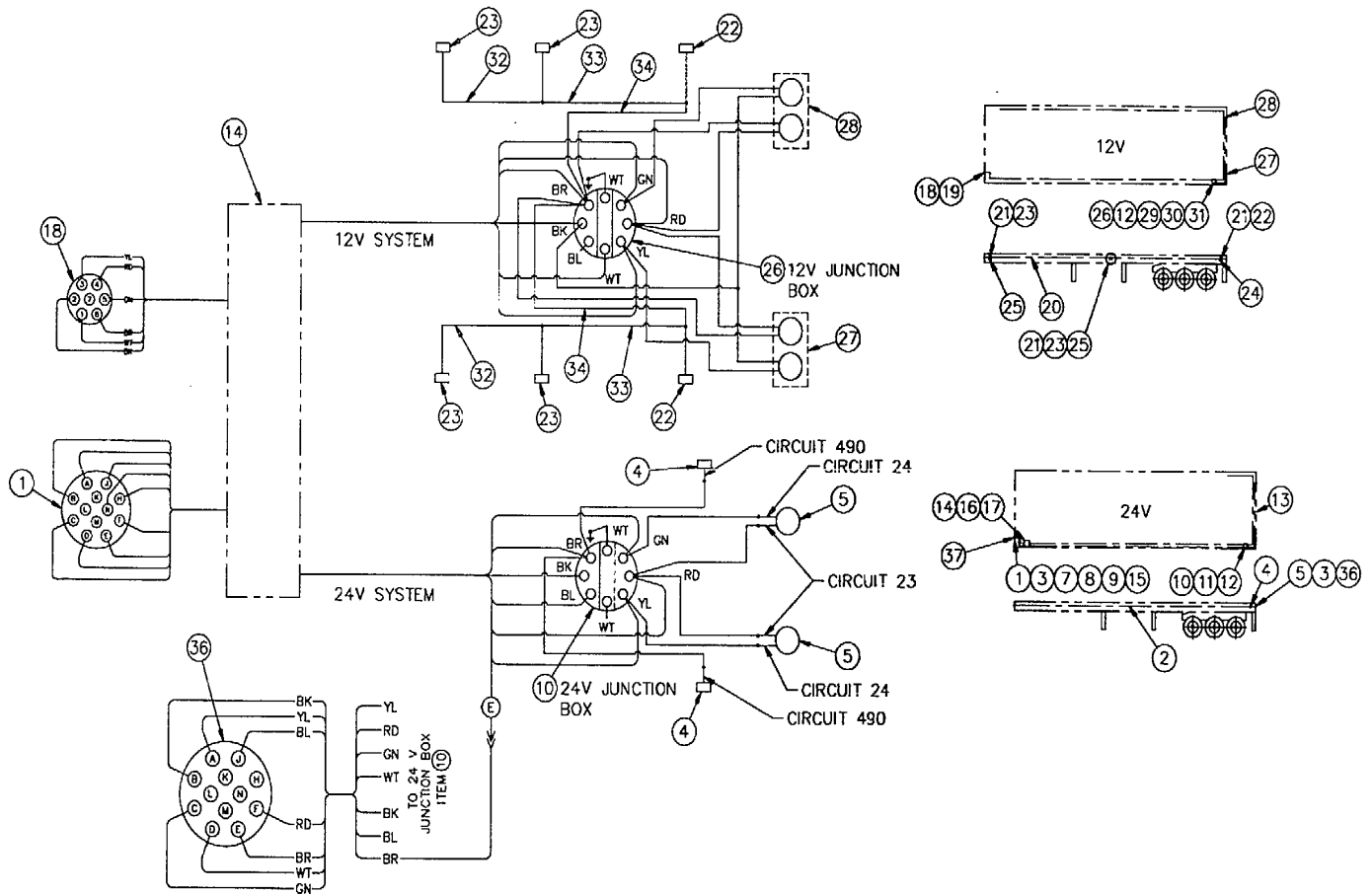


Figure 101 Electrical Wiring 12 Volt and 24 Volt

## FIGURE 102

## ELECTRICAL WIRING 12 VOLT AND 24 VOLT

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-11		ELECTRICAL WIRING 12V AND 24V	Fig 102	
102-1	1	E4 MS75021-1	SA910	RECEPTACLE		1
102-2	1	COMMERCIAL		ELECTRIC CABLE 14\6C AS REQUIRED		
102-3	1	COMMERCIAL		ELECTRIC SOCKET BOOT		1
102-4	1	E4 MS 3976/1-01	SA910	RED MARKER LIGHT		2
102-5	1	E4 MS 51330-1-383	SA910	TAIL LAMP		2
102-7	1	E4 7722333	ON942	GROMMET		1
102-8	1	E4 7723309	ON942	GROMMET NUT		1
102-9	1	E4 7731428	ON942	COVER ASSEMBLY		1
102-10	1	E4 76-2125	ON942	JUNCTION BOX		1
102-11	1	E4 76-9135	2Y580	FITTING		1
102-12	1	E4 76-9134	2Y580	FITTING		2
102-13	1	COMMERCIAL		ELECTRIC CABLE 14\4C AS REQUIRED		
102-14	1	E4 61-450-40	3ABO3	TRANSFORMER 24V - 12V		1
102-15	1	COMMERCIAL		ELECTRIC CABLE 14\12 AS REQUIRED		
102-16	1	E4 2922	59730	STRAIN RELIEF		3
102-17	1	E4 2932	59730	STRAIN RELIEF		1
102-18	1	COMMERCIAL		ELECTRIC SOCKET		1
102-19	1	COMMERCIAL		ELECTRIC SOCKET BOOT		1
102-20	1	COMMERCIAL		ELECTRIC CABLE 14\6C AS REQUIRED		
102-21	1	E4 73-7829	2Y580	SIDE MARKER LIGHT HOUSING		6
102-22	1	E4 73-5055	2Y580	RED SIDE MARKER LIGHT		2
102-23	1	E4 73-5056	2Y580	AMBER SIDE MARKER LIGHT		4
102-24	1	E4 71-6019	2Y580	RED REFLECTOR		2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
102-25	1	E4 71-6028	2Y580	AMBER REFLECTOR		4
102-26	1	E4 76-2125	2Y580	JUNCTION BOX		1
102-27	1	E4 70-0028	2Y580	DOUBLE TAIL LIGHT LEFT HAND		1
102-28	1	E4 70-0029	2Y580	DOUBLE TAIL LIGHT RIGHT HAND		1
102-29	1	E4 76-9135	2Y580	FITTING		1
102-30	1	E4 76-9134	2Y580	FITTING		2
102-31	1	E4 76-9133	2Y580	FITTING		2
102-32	1	E4 50331	2Y580	WIRING HARNESS		2
102-33	1	E4 50322	2Y580	WIRING HARNESS		2
102-34	1	E4 50319	2Y580	WIRING HARNESS		2
102-35	1	61-450-10	3ABO3	WIRING DIAGRAM ONLY	Fig 101	1
102-A1	1	COMMERCIAL		BOLTS 1/4" X 1 3/4" LG, NUT, LW, FW		4
102-36	1	AP53-450-04	SA910	INTER-VEHICULAR CABLE		1

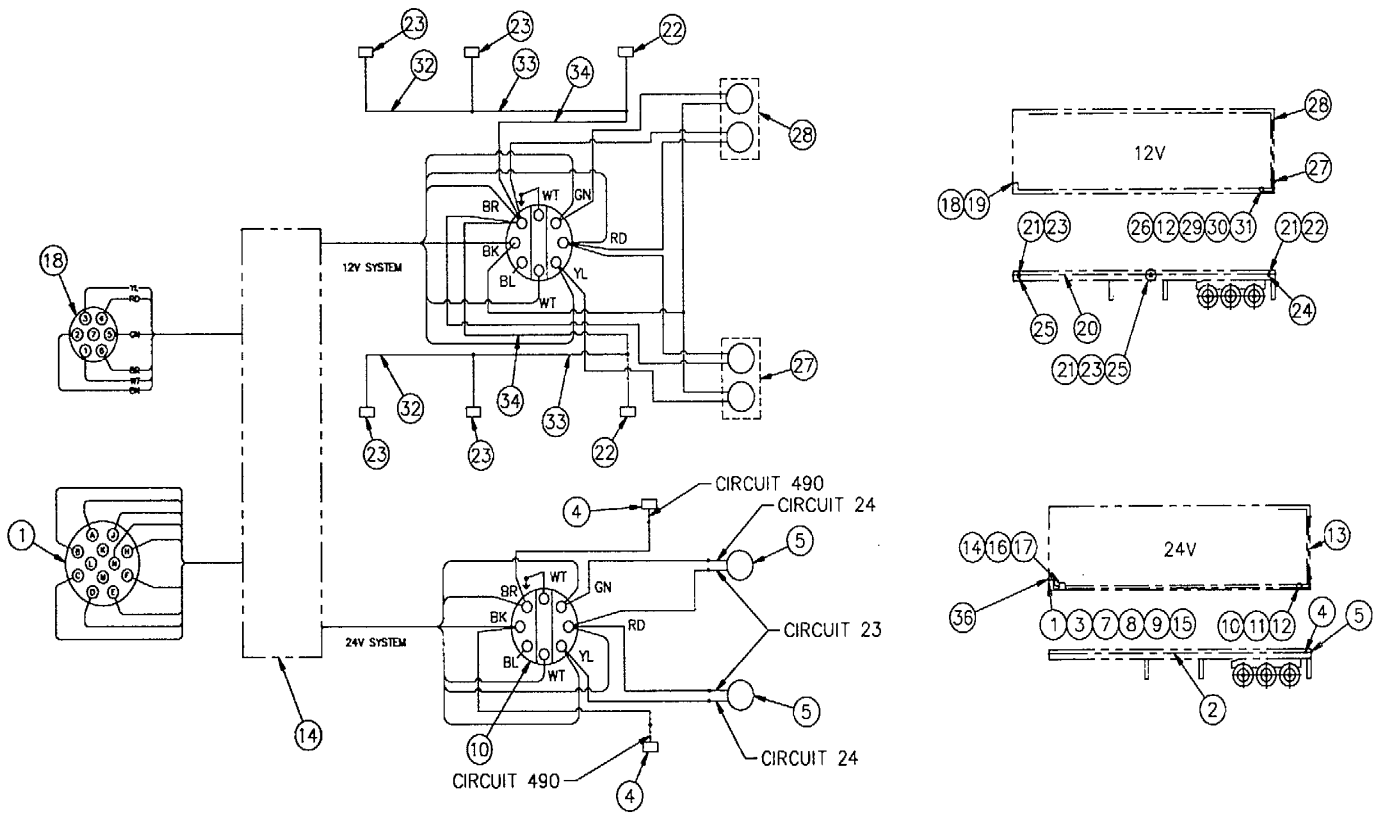


Figure 102 - Electrical Wiring 12 Volt and 24 Volt



## FIGURE 103

## ADJUSTING NUT ASSEMBLY

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-15		ADJUSTING NUT ASSEMBLY	Fig 103	4
103-1	1	52-400-20	3AB03	LOWER ADJUSTING NUT		4
103-2	1	52-400-21	3AB03	UPPER ADJUSTING NUT		4
103-A0	1	COMMERCIAL		SPIRAL SPRING PIN 3/8" X 3 1/2" LG		4

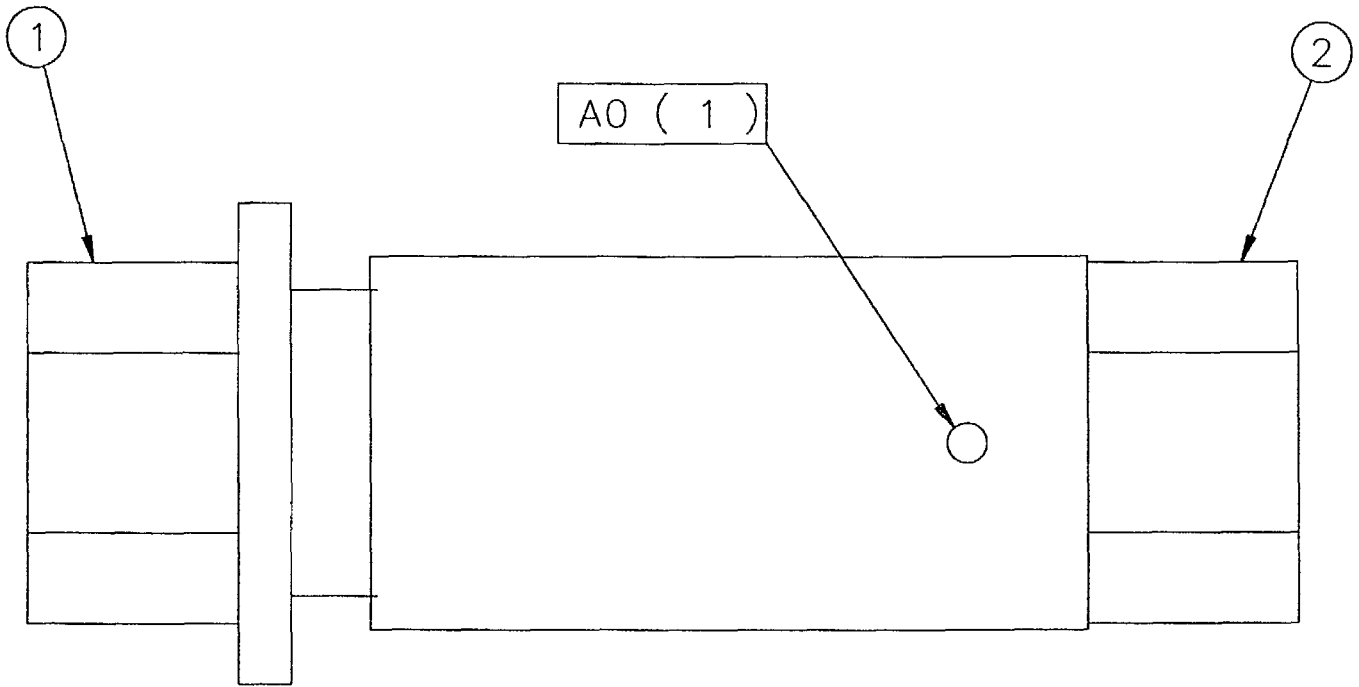


Figure 103 - Adjusting Nut Assembly

## FIGURE 104

## SUSPENSION ASSEMBLY

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-17		SUSPENSION ASSEMBLY	Fig 104	1
104-1	1	C2 TR-572-MS	73842	VALVE STEM		12
104-2	1	C2 135-802-002-0-000	73842	TIRE 11R22.5		12
104-3	1	C2 46213B	41885	WHEEL 8.25 X 22.5		12
104-4	1	C2 D21FC167SWN81 011-92	0WXM9	AXLE	Fig C2	3
104-5	1	C2 21B-FAB-322-WB- 13.25-C-50-5592	99062	SUSPENSION	Fig C3	1

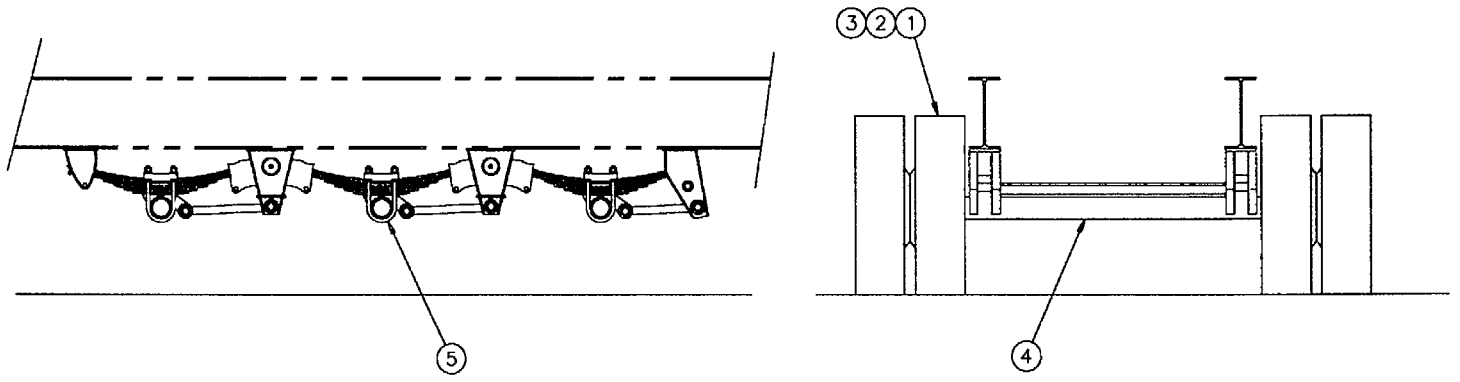


Figure 104 - Suspension Assembly

FIGURE 105

LIFTING BASE ASSEMBLY

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-16		LIFTING BASE ASSEMBLY	Fig 105	2
105-1	1	52-400-17	3ABO3	UPPER LIFT BASE		2
105-2	1	52-400-18	3ABO3	LOWER LIFT BASE		2
105-3	1	52-450-15	3ABO3	ADJUSTING NUT ASSEMBLY	Fig 103	4
105-4	1	52-400-19	3ABO3	ADJUSTING SCREW		8

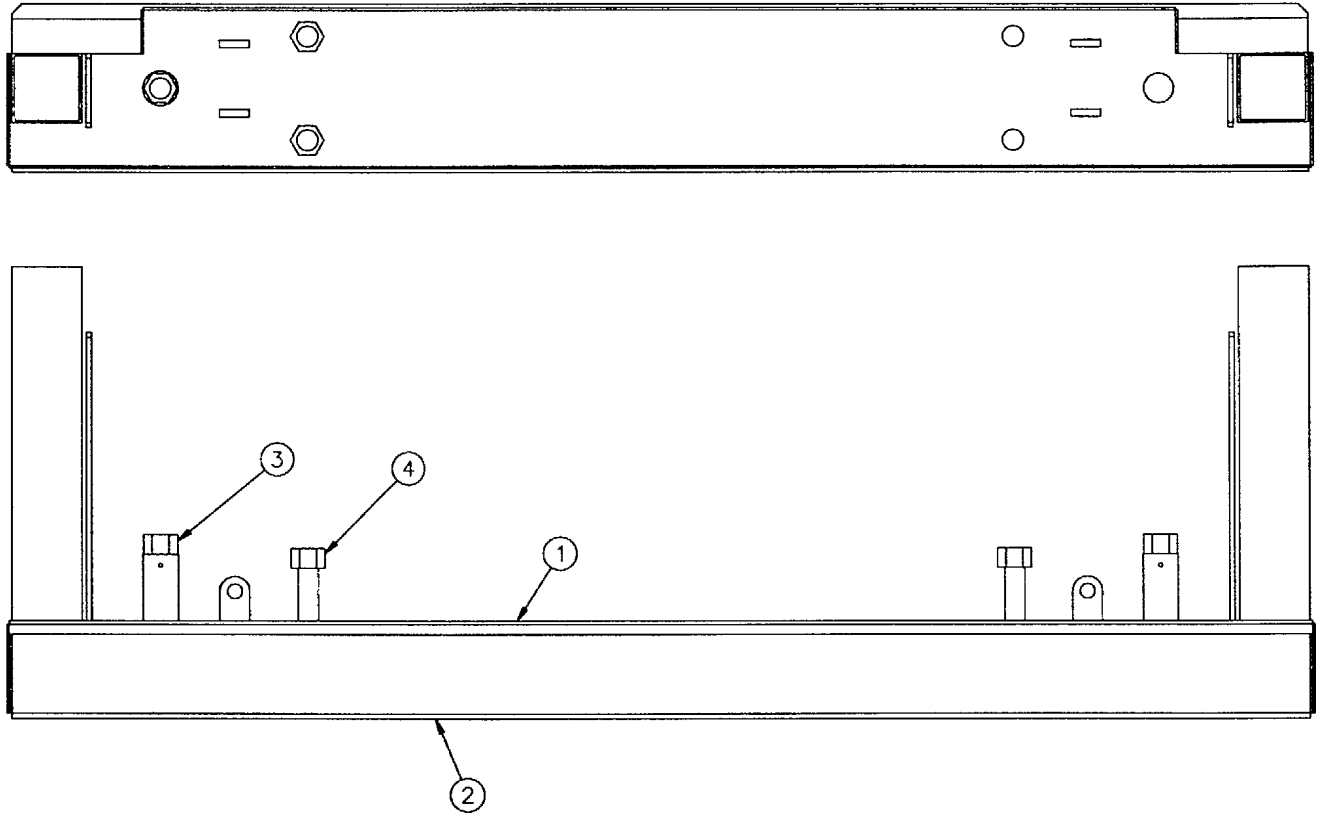


Figure 105 - Lifting Base Assembly

## FIGURE 106

## HOPPER CLAM SHELL GATE ASSEMBLY

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-18		HOPPER CLAM SHELL GATE ASSEMBLY	Fig 106	1
106-1	1	MP 52-400-13	3ABO3	CLAM SHELL GATE		1
106-3	1	MP X-313-54	3ABO3	HOPPER GATE MEMBER		4
106-4	1	MP 52-202-01	3ABO3	CYLINDER PIN		2
106-5	1	MP X-211-34	3ABO3	HOPPER GATE PIVOT PIN		4
106-6	1	COMMERCIAL		1/8" GREASE ZERK		4
106-7	1	MP 52-100-04	3ABO3	CLAM SHELL GATE INSULATION COVER		2
106-8	1	52-400-35	3ABO3	CLAM SHELL GATE		1
106-9	1	E4 802T-AP	0CGS1	ALLAN BRADLEY LIMIT SWITCH		2
106-10	1	E4 802T-W3	0CGS1	ALLAN BRADLEY LIMIT SWITCH LEVER		2
106-A1	1	COMMERCIAL		BOLT 1/4" X 1/2" LG, LW		4
106-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, LW		16
106-C0	1	COMMERCIAL		COTTER PIN 1/4" X 1 1/2" LG		4
106-D5	1	COMMERCIAL		BOLT 1/2" X 1" LG, LW		12

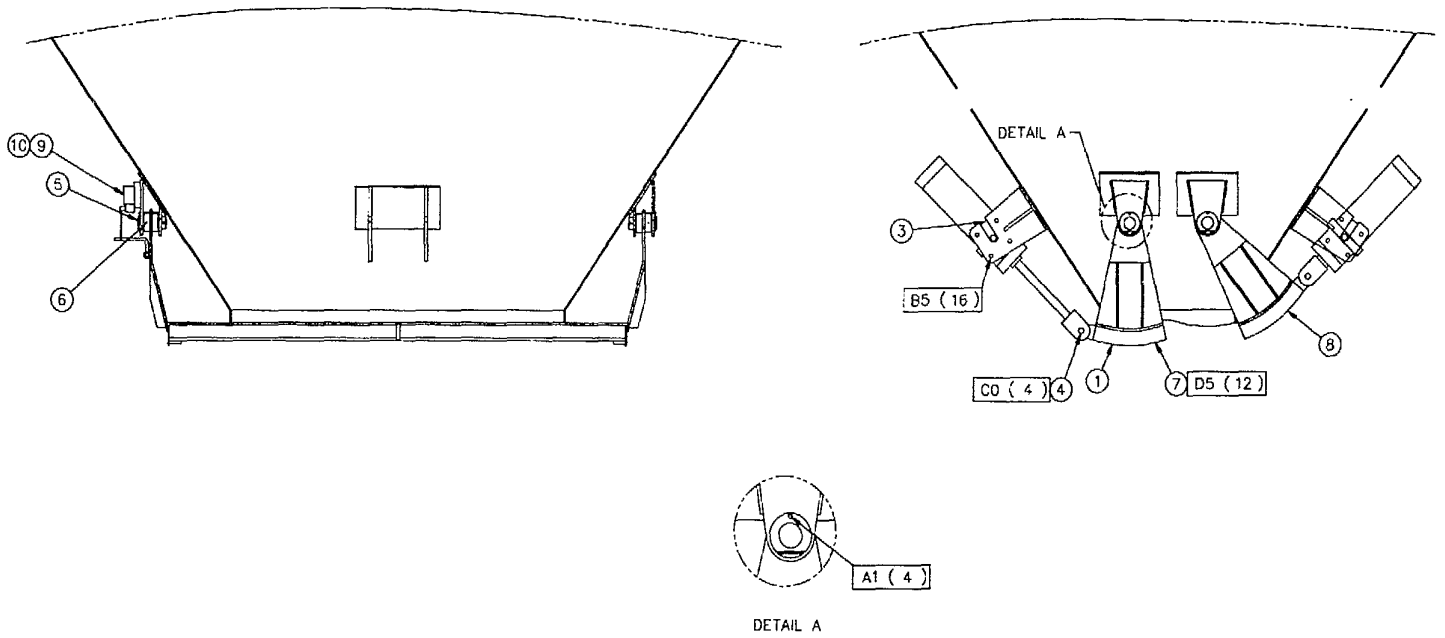


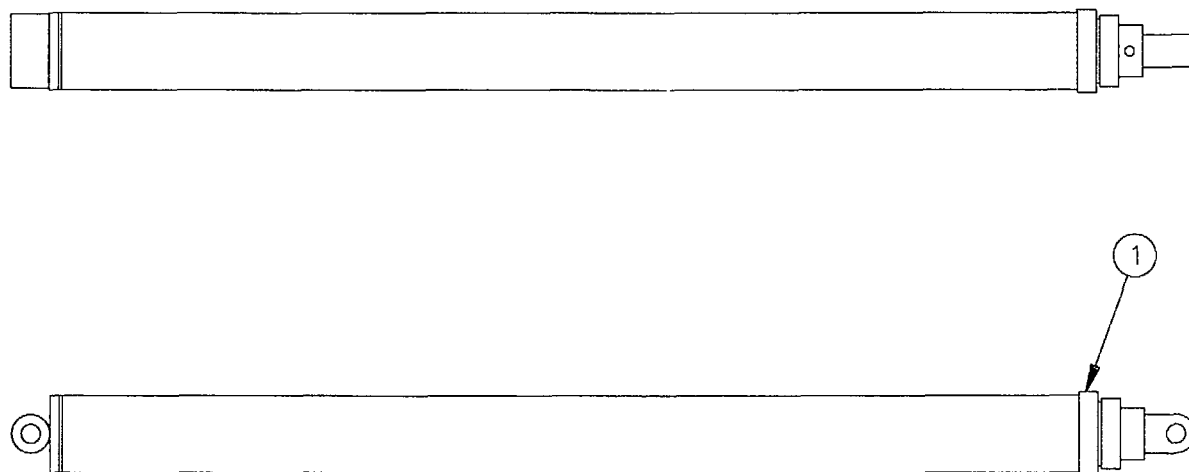
Figure 106 - Hopper Clam Shell Gate Assembly



## FIGURE 107

## TELESCOPING CYLINDER

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	H2 03-950-24		TELESCOPING CYLINDER	Fig 107	
107-1	1	10-951-12	3AB03	SEAL KIT		1



*Figure 107 - Telescoping Cylinder*

**FIGURE 108**  
**LANDING JACK**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	61-450-16		LANDING JACK	Fig 108	1
108-1	1	MP 61-200-01	3AB03	BRACE		2
108-3	1	C2 LG75-4B-105	74410	LANDING GEAR SET		1
108-4	1	MP 61-200-04	3AB03	BRACE		2
108-A6	1	COMMERCIAL		BOLT 5/8" X 1 1/2" LG, NUT, LW		16
108-B6	1	COMMERCIAL		BOLT 5/8" X 1 1/2" LG, NUT, LW		8

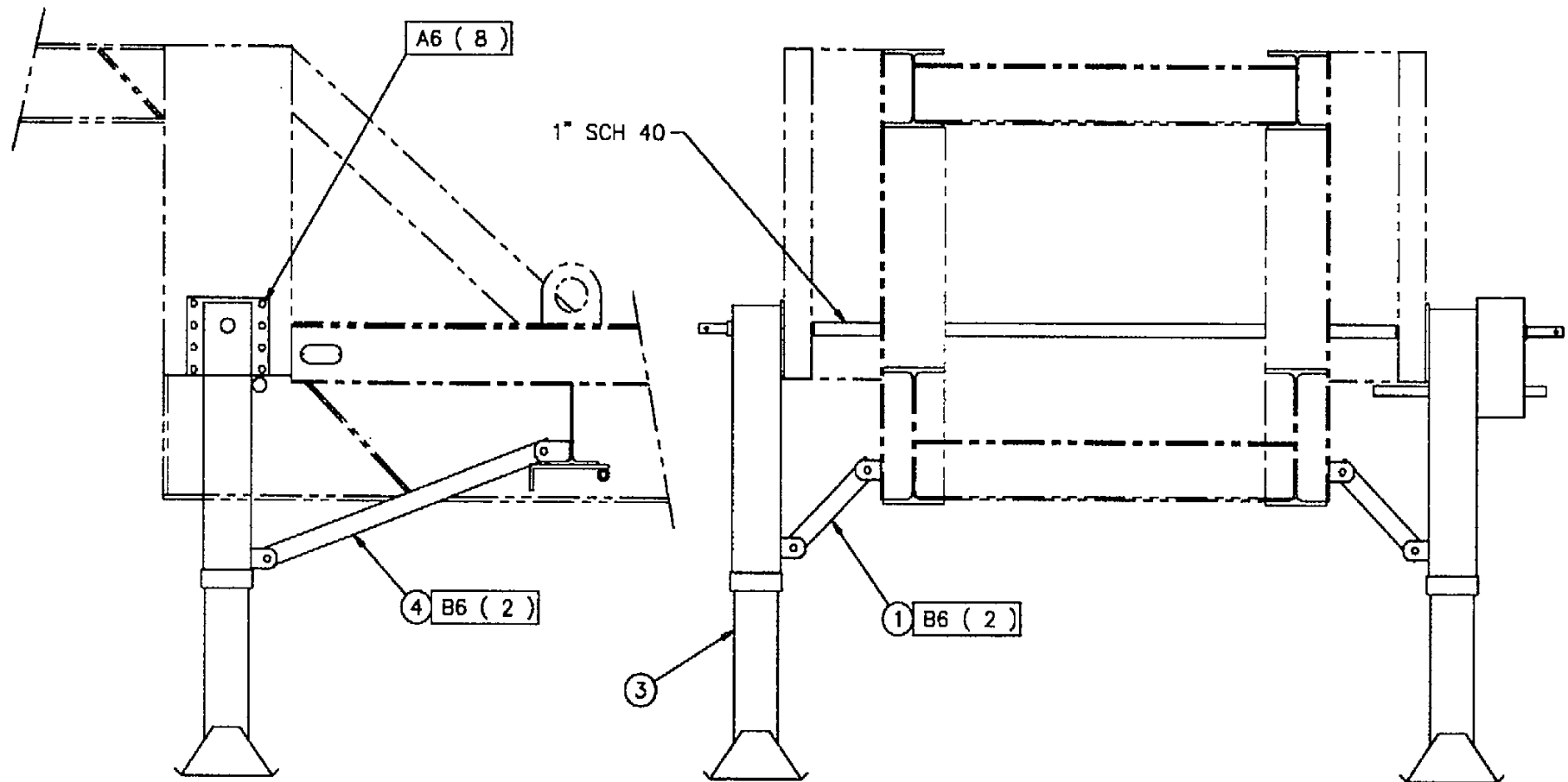


Figure 108 - Landing Jack

## FIGURE 109

## SCREW JACK

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-17		SCREW JACK	Fig 109	4
109-1	1	MP 51-400-95	3AB03	SCREW JACK TOP PLATE		4
109-2	1	MP 51-401-17	3AB03	SCREW JACK COLLAR		4
109-3	1	MP 51-400-00	3AB03	SCREW JACK BODY		4
109-4	1	MP 51-400-59-B	3AB03	PINS		4
109-5	1	MP 51-401-09	3AB03	BASE PLATE		4
109-A7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW		8
109-B0	1	COMMERCIAL		COTTER PIN 3/16" X 1 1/4" LG		8
109-C0	1	COMMERCIAL		QUIK-PIN 1/4"		8

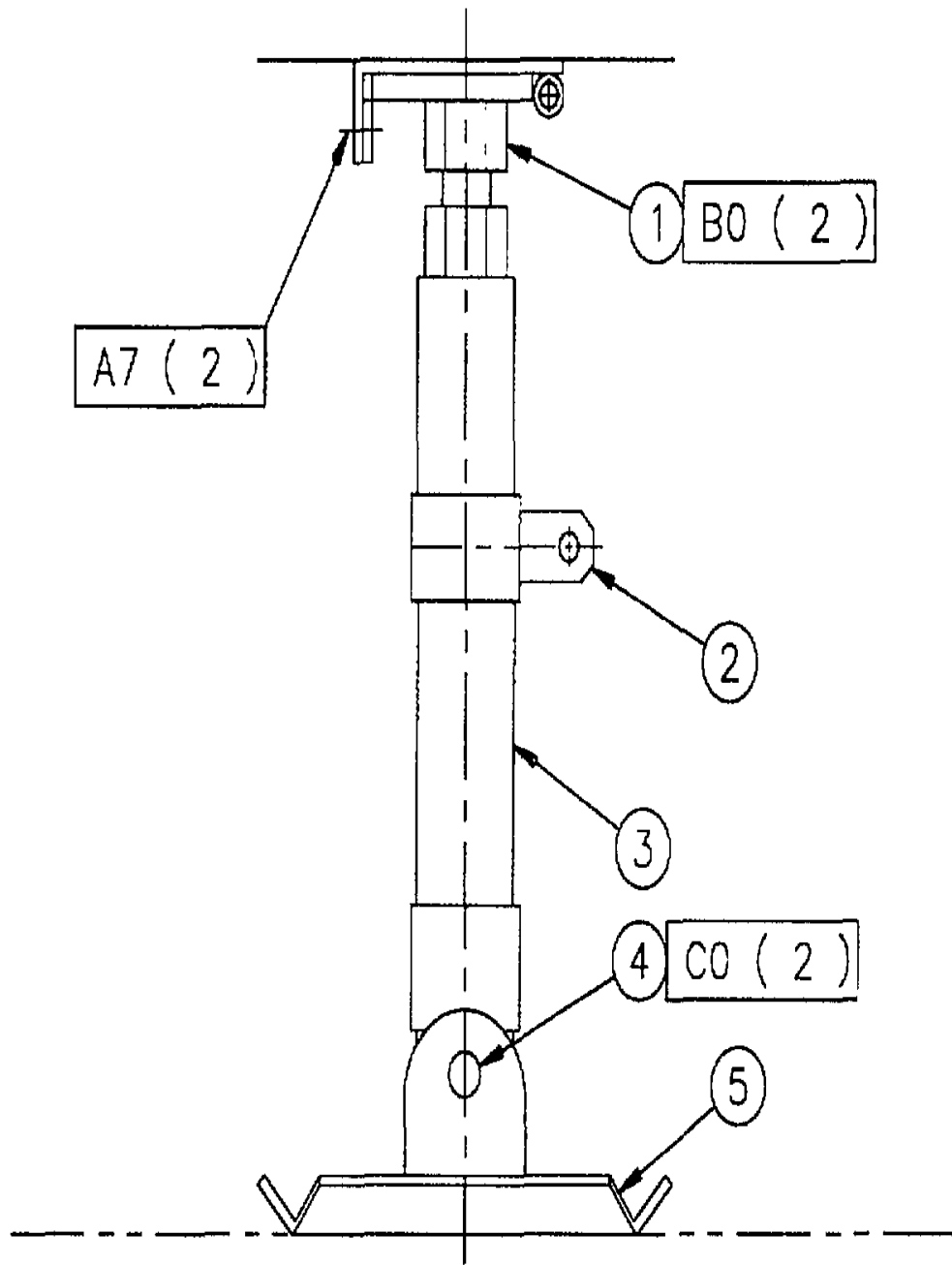


Figure 109 - Screw Jack

**FIGURE 110**

**WIND GUARD**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-450-95		WIND GUARD	Fig 110	
110-1	1	MP 51-401-93	3ABO3	WIND GUARD		1
110-2	1	MP 51-401-94	3ABO3	WIND GUARD		1
110-3	1	MP 51-401-95	3ABO3	WIND GUARD		1
110-4	1	MP 51-401-96	3ABO3	WIND GUARD		1
110-5	1	MP 51-401-97	3ABO3	WIND GUARD		1
110-6	1	MP 51-401-98	3ABO3	WIND GUARD		1
110-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, FW, LW		22

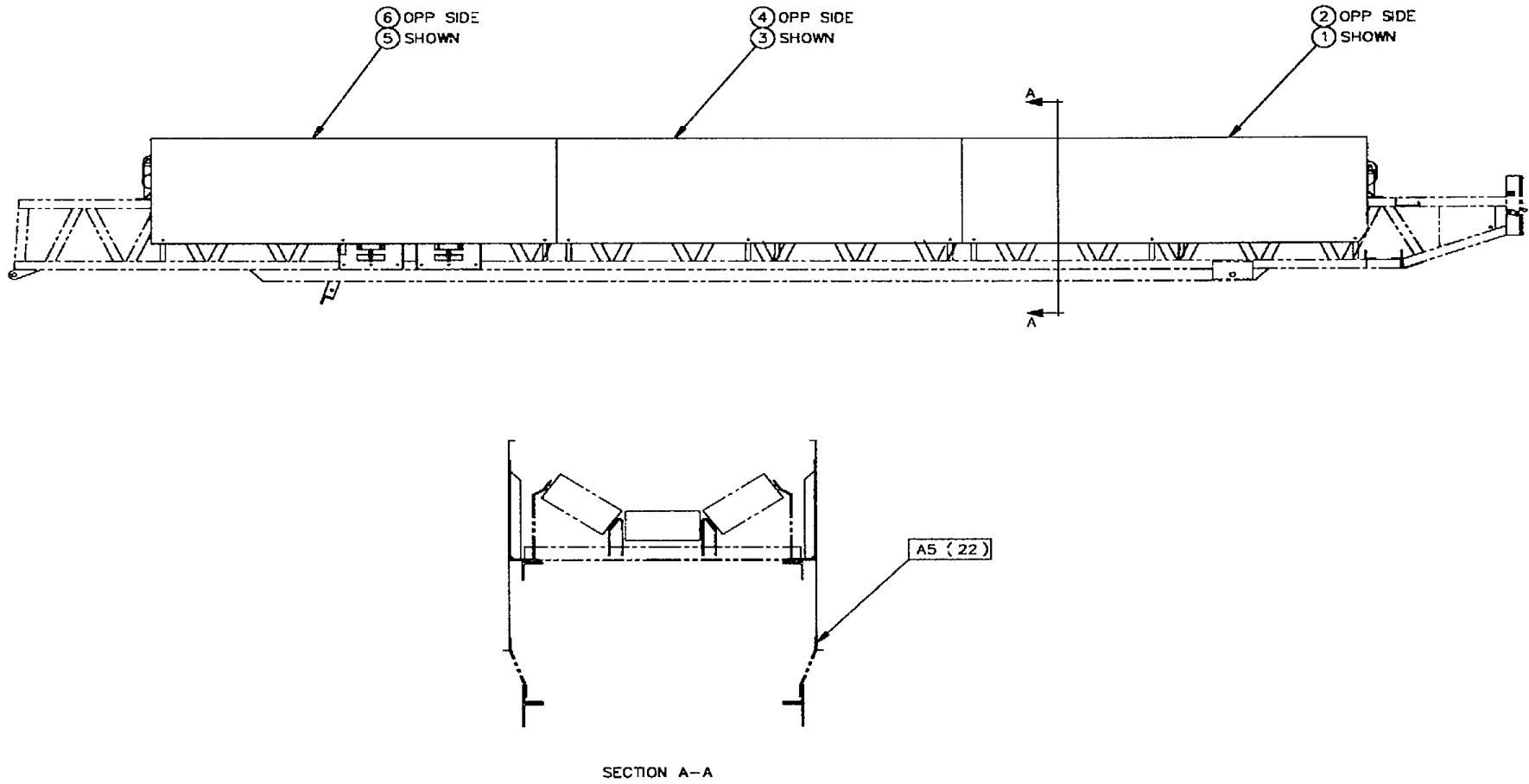


Figure 110 - Wind Guard



## FIGURE 111

## ELECTRICAL WIRING 12 VOLT AND 24 VOLT

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-43		ELECTRICAL WIRING 12V AND 24V	Fig 111	
111-1	1	E4 MS75021-1	SA910	RECEPTACLE		1
111-2	1	COMMERCIAL		ELECTRIC CABLE 14\6C AS REQUIRED		1
111-3	1	COMMERCIAL		ELECTRIC SOCKET BOOT		1
111-4	1	E4 MS 3976/1-01	SA910	RED MARKER LIGHT		2
111-5	1	MS 51330-1-383	SA910	TAIL LAMP		2
111-7	1	E4 7722333	ON942	GROMMET		1
111-8	1	E4 7723309	ON942	GROMMET NUT		1
111-9	1	E4 7731428	ON942	COVER ASSEMBLY		1
111-10	1	E4 76-2125	ON942	JUNCTION BOX		1
111-11	1	E4 76-9135	2Y580	FITTING		1
111-12	1	E4 76-9134	2Y580	FITTING		2
111-13	1	COMMERCIAL		ELECTRIC CABLE 14\4C AS REQUIRED		
111-14	1	E4 61-450-40	3ABO3	TRANSFORMER 24V-12V		1
111-15	1	COMMERCIAL		ELECTRIC CABLE 14\12 AS REQUIRED		
111-16	1	E4 2922	59730	STRAIN RELIEF		5
111-17	1	E4 2932	59730	STRAIN RELIEF		1
111-18	1	COMMERCIAL		ELECTRIC SOCKET		2
111-19	1	COMMERCIAL		ELECTRIC SOCKET BOOT		2
111-20	1	COMMERCIAL		ELECTRIC CABLE 14/6C AS REQUIRED		
111-21	1	E4 73-7829	2Y580	SIDE MARKER LIGHT HOUSING		6
111-22	1	E4 73-5055	2Y580	RED SIDE MARKER LIGHT		2
111-23	1	E4 73-5056	2Y580	AMBER SIDE MARKER LIGHT		4
111-24	1	E4 71-6019	2Y580	RED REFLECTOR		2
111-25	1	E4 71-6020	2Y580	AMBER REFLECTOR		4

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
111-26	1	E4 76-2125	2Y580	JUNCTION BOX		2
111-27	1	E4 70-0028	2Y580	DOUBLE TAIL LIGHT LEFT HAND		1
111-28	1	E4 70-0029	2Y580	DOUBLE TAIL LIGHT RIGHT HAND		1
111-29	1	E4 76-9135	2Y580	FITTING		1
111-30	1	E4 76-9134	2Y580	FITTING		2
111-31	1	E4 76-9133	2Y580	FITTING		2
111-32	1	E4 50331	2Y580	WIRING HARNESS		2
111-33	1	E4 50322	2Y580	WIRING HARNESS		2
111-34	1	E4 50319	2Y580	WIRING HARNESS		2
111-36	1	COMMERCIAL		6 PIN PLUG		1
111-37	1	COMMERCIAL		7 PIN PLUG		1
111-38	1	COMMERCIAL		6 POLE SOCKET		1
111-39	1	COMMERCIAL		BOOT		1
111-40	1	AP 53-450-04	SA910	INTER-VEHICULAR CABLE		1

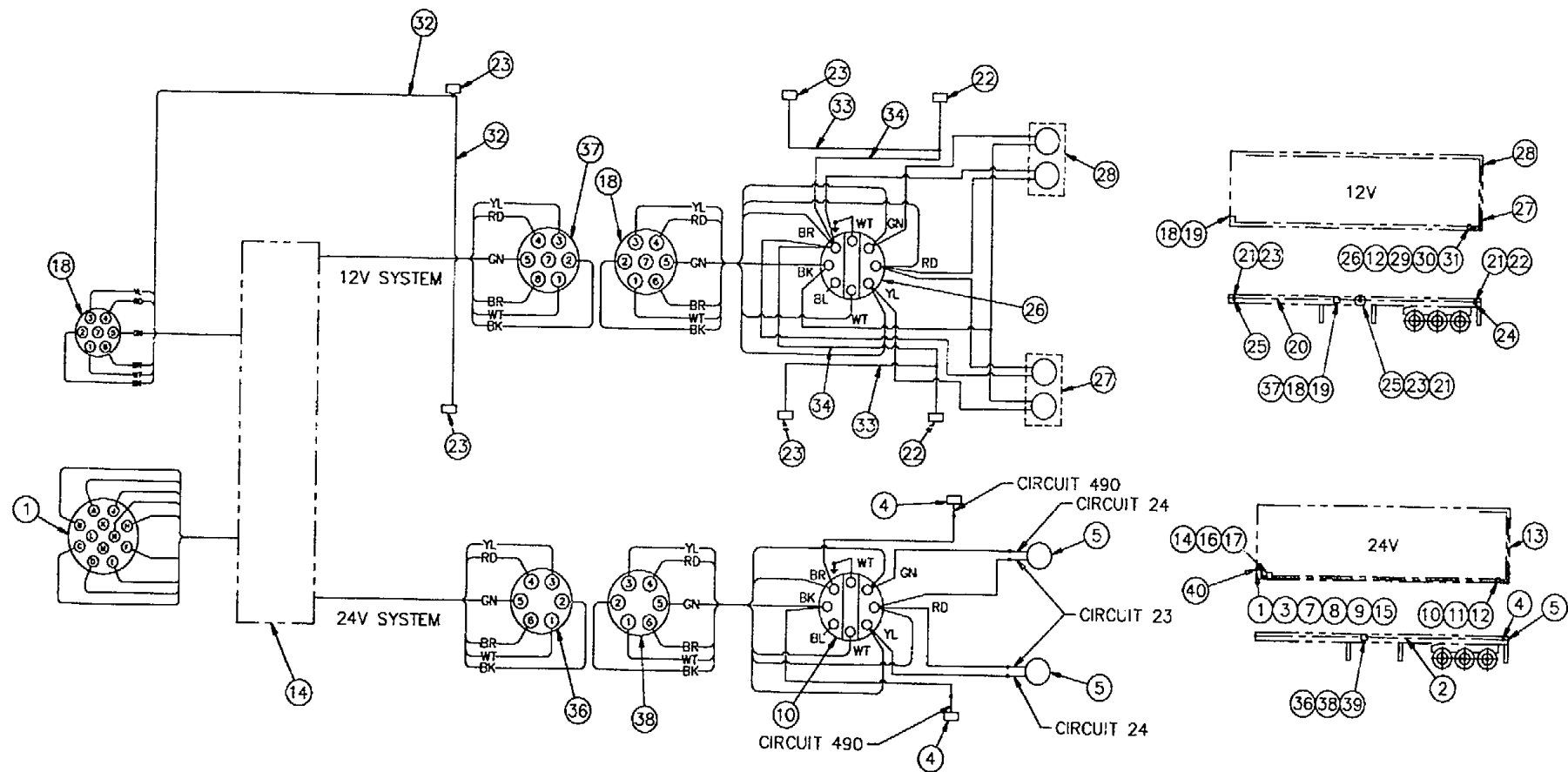


Figure 111 - Electrical Wiring 12 Volt and 24 Volt

## FIGURE 112

## HYDRAULIC CYLINDER 6" BORE X 65" STROKE

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	03-950-25		HYDRAULIC CYLINDER 6" BORE X 65" STROKE	Fig 112	
112-1	1	H2 90-400-78	3ABO3	CYLINDER		1
112-2	1	H2 90-400-79	3ABO3	CYLINDER ROD ASSEMBLY		1
112-3	1	H2 90-420-11	3ABO3	CYLINDER HEAD		1
112-4	1	H2 90-420-19	3ABO3	PISTON		1
112-5	1	COMMERCIAL		LOCK NUT 1 1/2" UNF		1
112-6	1	H2 90-204-42	3ABO3	STOP TUBE		1
112-7	1	H2 10-951-06	3ABO3	SEAL KIT 6" BORE X 3" SHAFT		1

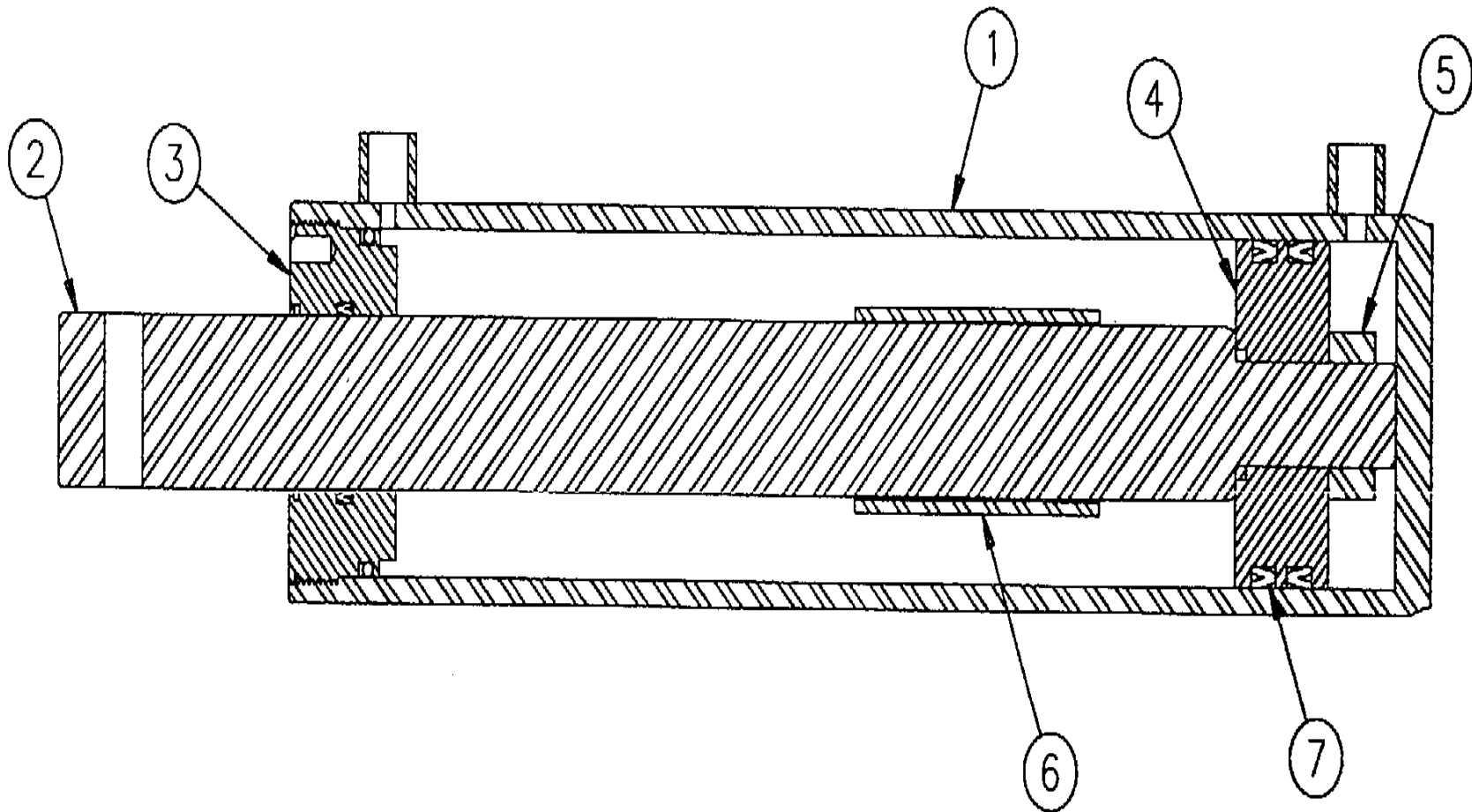


Figure 112 - Hydraulic Cylinder 6" Bore X 65" Stroke

**FIGURE 113**  
**AIR BRAKE SYSTEM**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	10-450-60		AIR BRAKE SYSTEM	Fig 113	
113-1	1	C2 N20405NB	06721	EMERGENCY GLAD HAND		2
113-2	1	C2 N20405PB	06721	SERVICE GLAD HAND		2
113-3	1	COMMERCIAL		NYLON HOSE 3/8" AS REQUIRED		
113-4	1	COMMERCIAL		3/8" TUBE - 1/4" MALE PIPE 90 DEG ELBOW		1
113-5	1	COMMERCIAL		1488 CUBIC INCH AIR TANK		2
113-6	1	COMMERCIAL		DRAIN COCK 1/4"		2
113-7	1	C2 N4305A	06721	VALVE		1
113-8	1	C2 AF103600	06721	RELAY VALVE		1
113-9	1	C2 14-493-P	06721	SPRING BRAKE		4
113-10	1	COMMERCIAL		BRAKE HOSE 3/8" AS REQUIRED		
113-12	1	COMMERCIAL		CUSHIONED CLAMPS AS REQUIRED		
113-13	1	H2 2083-12-12S	01276	FITTING		1
113-15	1	COMMERCIAL		3/8" TUBE - 3/8" MALE PIPE 90 DEG ELBOW		3
113-16	1	COMMERCIAL		3/8" HOSE - 3/8" PIPE COUPLER		16
113-18	1	COMMERCIAL		PIPE PLUG 3/8" NPT		1
113-19	1	C2 30096PA	06721	FAST AIR RELAY VALVE		1
113-20	1	COMMERCIAL		SHUT OFF VALVE 3/8"		2
113-21	1	C2 11403	06721	GLAD HAND HOLDER		4
113-22	1	COMMERCIAL		3/8" FEMALE TEE		1
113-23	1	COMMERCIAL		3/8" MALE TEE		3
113-24	1	C2 110-DC	36655	FITTING		6
113-25	1	COMMERCIAL		1/2" PLUG		2
113-27	1	C2 X115-C	36655	FITTING		2
113-28	1	C2 2083-12-BS	36655	FITTING		1
113-29	1	C2 1468-6C	36655	FITTING		2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
113-30	1	C2 N13048A	06721	COVER		4
113-31	1	COMMERCIAL		BRAKE HOSE 3/8", 1503-6 AS REQ'D		

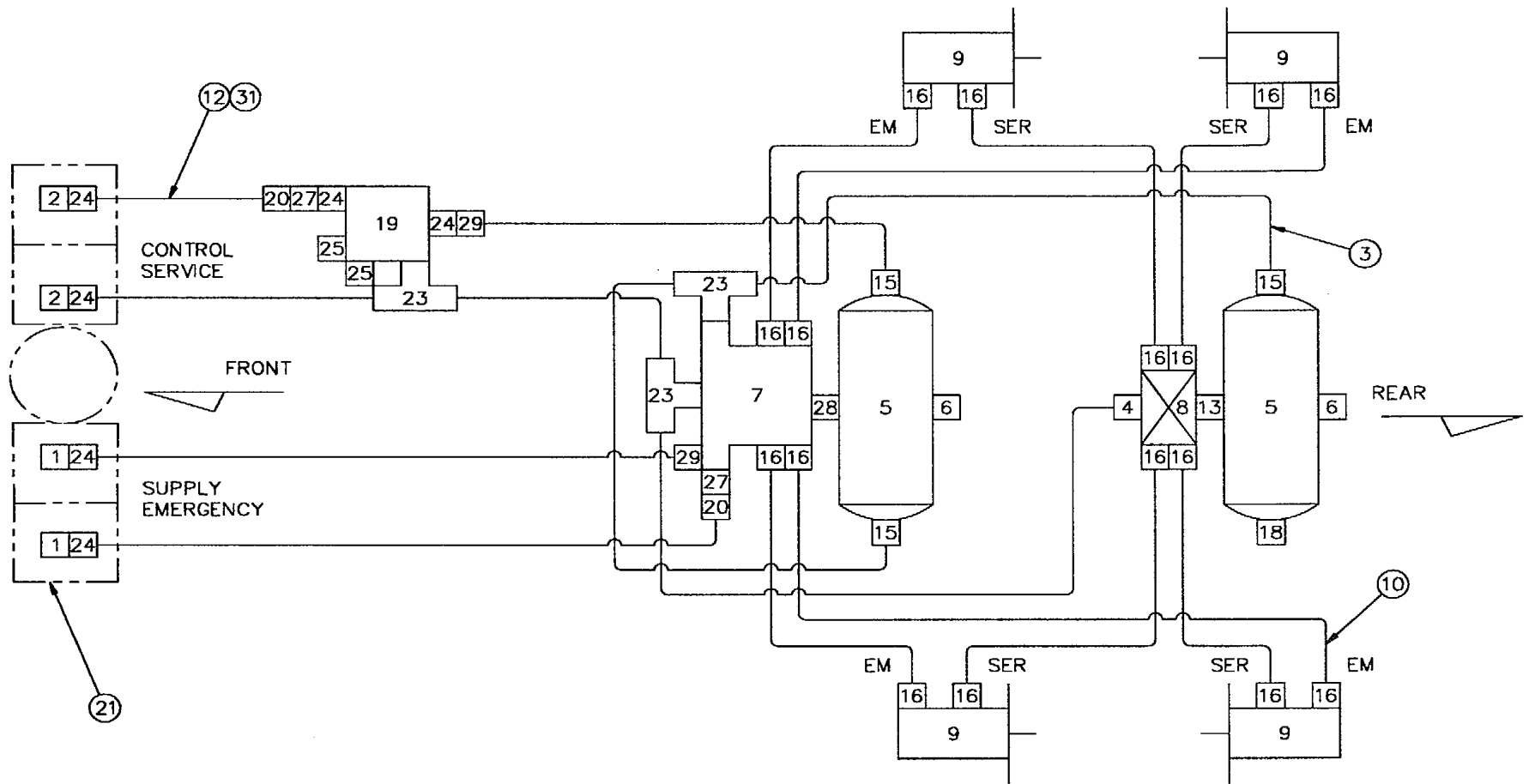


Figure 113 - Air Brake System



## FIGURE 114

## ELECTRICAL WIRING 12 VOLT AND 24 VOLT

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-44		ELECTRICAL WIRING 12V AND 24V	Fig 114	
114-1	1	E4 MS75021-1	SA910	RECEPTACLE		2
114-2	1	COMMERCIAL		ELECTRIC CABLE 14\6C AS REQ'D		
114-3	1	COMMERCIAL		ELECTRIC SOCKET BOOT		2
114-4	1	E4MS51330-1-383	SA910	TAIL LAMP		2
114-5	1	E4 7722333	ON942	GROMMET		2
114-6	1	E4 7723309	ON942	GROMMET NUT		2
114-7	1	E4 7731428	ON942	COVER ASSEMBLY		2
114-8	1	E4 76-2125	ON942	JUNCTION BOX		1
114-9	1	E4 76-9135	2Y580	FITTING		1
114-10	1	E4 76-9134	2Y580	FITTING		2
114-11	1	COMMERCIAL		ELECTRIC CABLE 14\4C AS REQ'D		
114-12	1	E4 61-450-40	3ABO3	TRANSFORMER 24V - 12V		1
114-13	1	COMMERCIAL		ELECTRIC CABLE 14\12 AS REQ'D		
114-14	1	E4 2922	59730	STRAIN RELIEF		4
114-15	1	E4 2932	59730	STRAIN RELIEF		2
114-16	1	COMMERCIAL		ELECTRIC SOCKET		1
114-18	1	COMMERCIAL		ELECTRIC CABLE 14/6C AS REQ'D		
114-19	1	E4 76-2125	2Y580	JUNCTION BOX		2
114-20	1	E4 70-0028	2Y580	DOUBLE TAIL LIGHT LEFT HAND		1
114-21	1	E4 70-0029	2Y580	DOUBLE TAIL LIGHT RIGHT HAND		1
114-22	1	E4 76-9135	2Y580	FITTING		6
114-23	1	E4 76-9134	2Y580	FITTING		2
114-24	1	E4 76-9133	2Y580	FITTING		2
114-28	1	AP53-450-04	SA910	INTER-VEHICULAR CABLE		1
114-29	1	COMMERCIAL		7 PIN PLUG		1

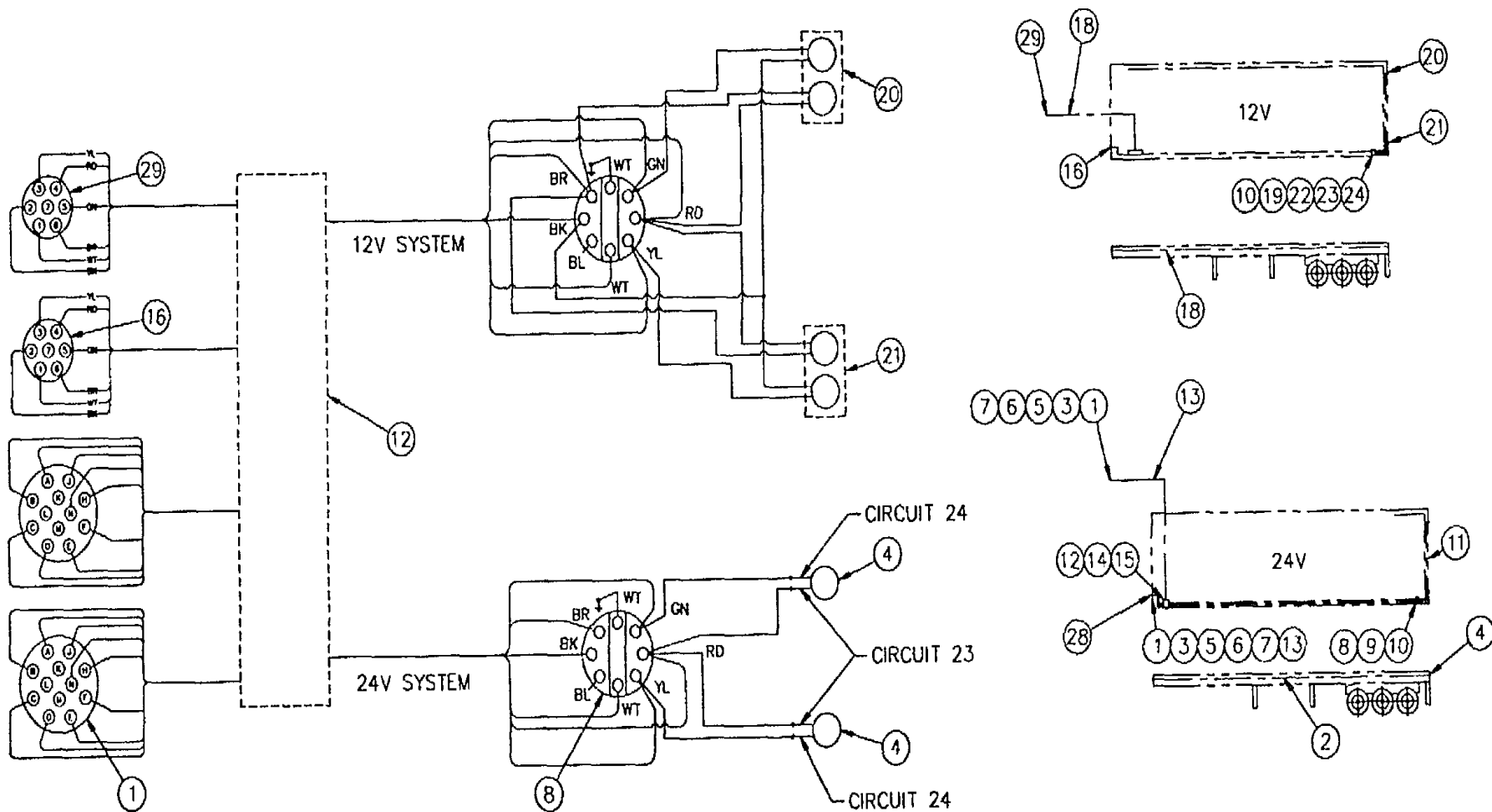


Figure 114-Electrical Wiring 12 Volt and 24 Volt

## FIGURE 115

## HYDRAULIC CYLINDER 5" BORE X 48" STROKE

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	03-950-23		HYDRAULIC CYLINDER 5" BORE X 48" STROKE	Fig 115	
115-1	1	H2 90-400-76	3ABO3	CYLINDER TUBE		1
115-2	1	H2 90-400-75	3ABO3	CYLINDER ROD ASSEMBLY		1
115-3	1	H2 90-420-09	3ABO3	CYLINDER HEAD		1
115-4	1	H2 90-420-10	3ABO3	PISTON		1
115-5	1	COMMERCIAL		LOCK NUT 1 1/2" UNF		1
115-6	1	H2 90-204-39	3ABO3	STOP TUBE		1
115-7	1	H2 10-951-04	3ABO3	SEAL KIT 5" BORE X 2 1/2" SHAFT		1

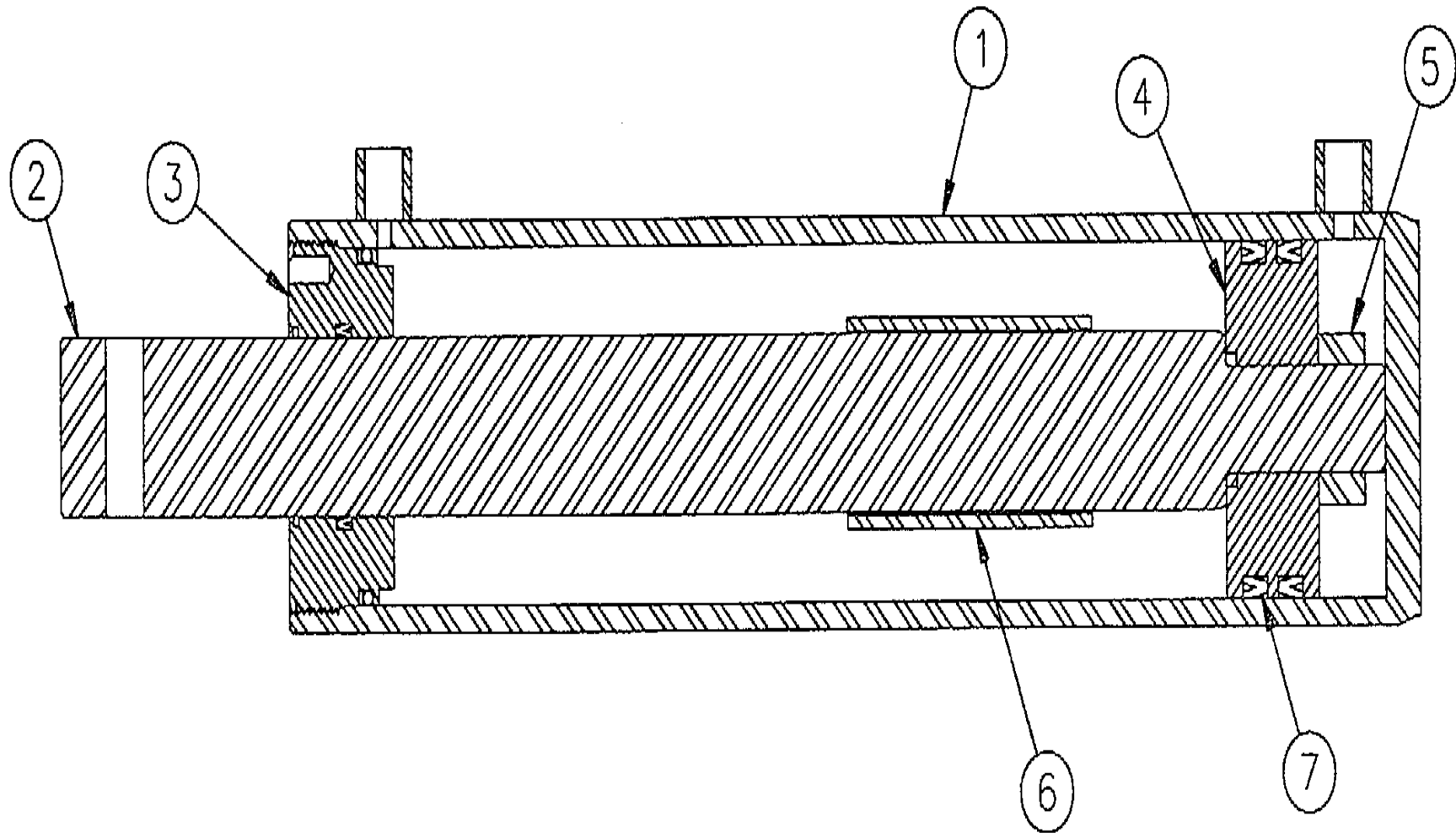


Figure 115 - Hydraulic Cylinder 5" Bore X 48" Stroke

FIGURE 116

HYDRAULIC CYLINDER 5" BORE X 30" STROKE

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	03-950-21		HYDRAULIC CYLINDER 5" BORE X 30" STROKE	Fig 116	
116-1	1	H2 90-400-72	3ABO3	CYLINDER		1
116-2	1	H2 90-410-23	3ABO3	CYLINDER ROD		1
116-3	1	H2 90-420-09	3ABO3	CYLINDER HEAD		1
116-4	1	H2 90-420-10	3ABO3	PISTON		1
116-5	1	COMMERCIAL		LOCK NUT 1 1/2" UNF		1
116-6	1	H2 10-951-04	3ABO3	SEAL KIT 5" BORE X 2 1/2" SHAFT		1

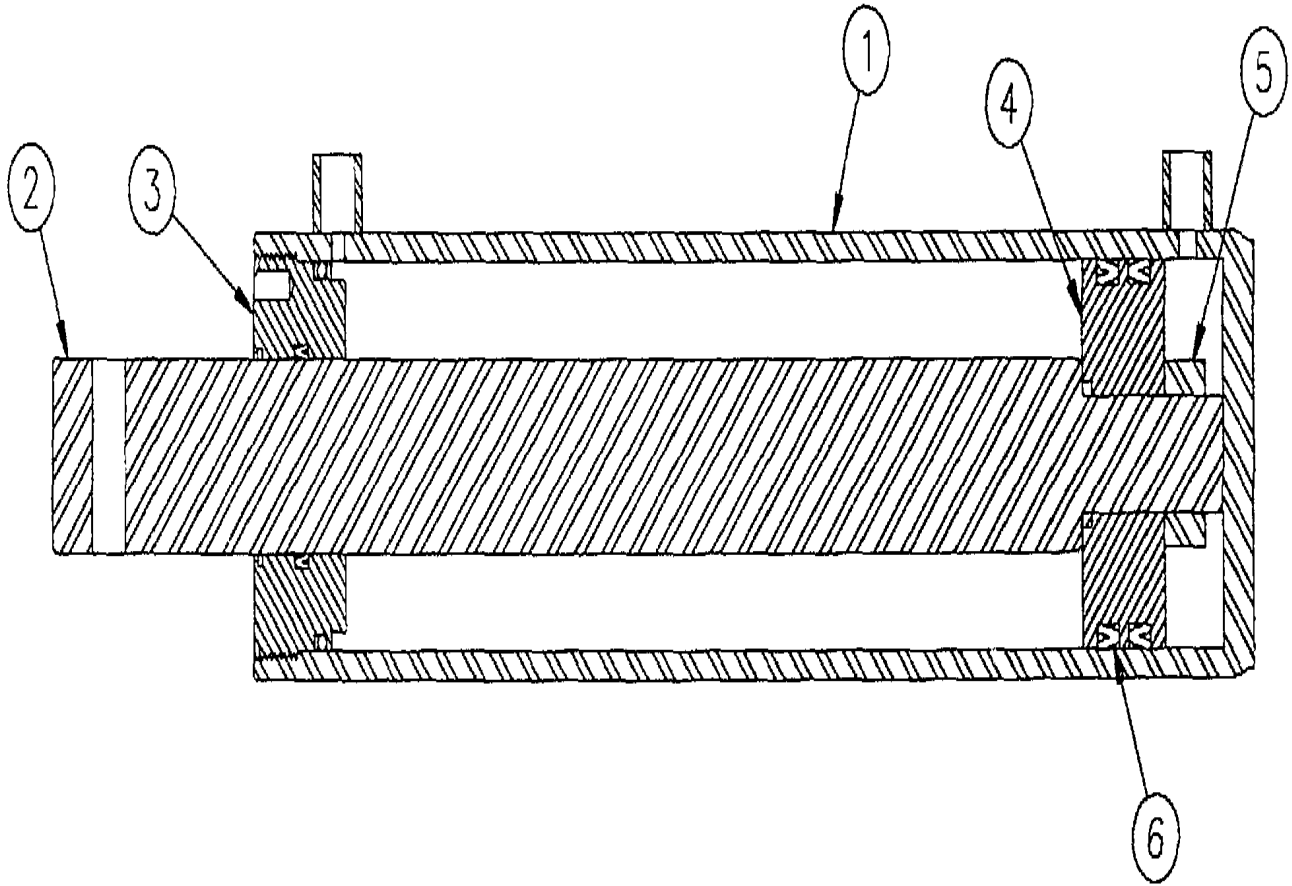


Figure 116 - Hydraulic Cylinder 5" Bore X 30" Stroke

**FIGURE 117**  
**HOPPER LIFT ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	52-450-24		HOPPER LIFT ASSEMBLY	Fig 117	1
117-2	1	MP 52-202-05	3AB03	CYLINDER PIN		2
117-3	1	MP 52-202-06	3AB03	CYLINDER PIN		2
117-A0	1	COMMERCIAL		COTTER PIN 1/4" X 2" LG		8

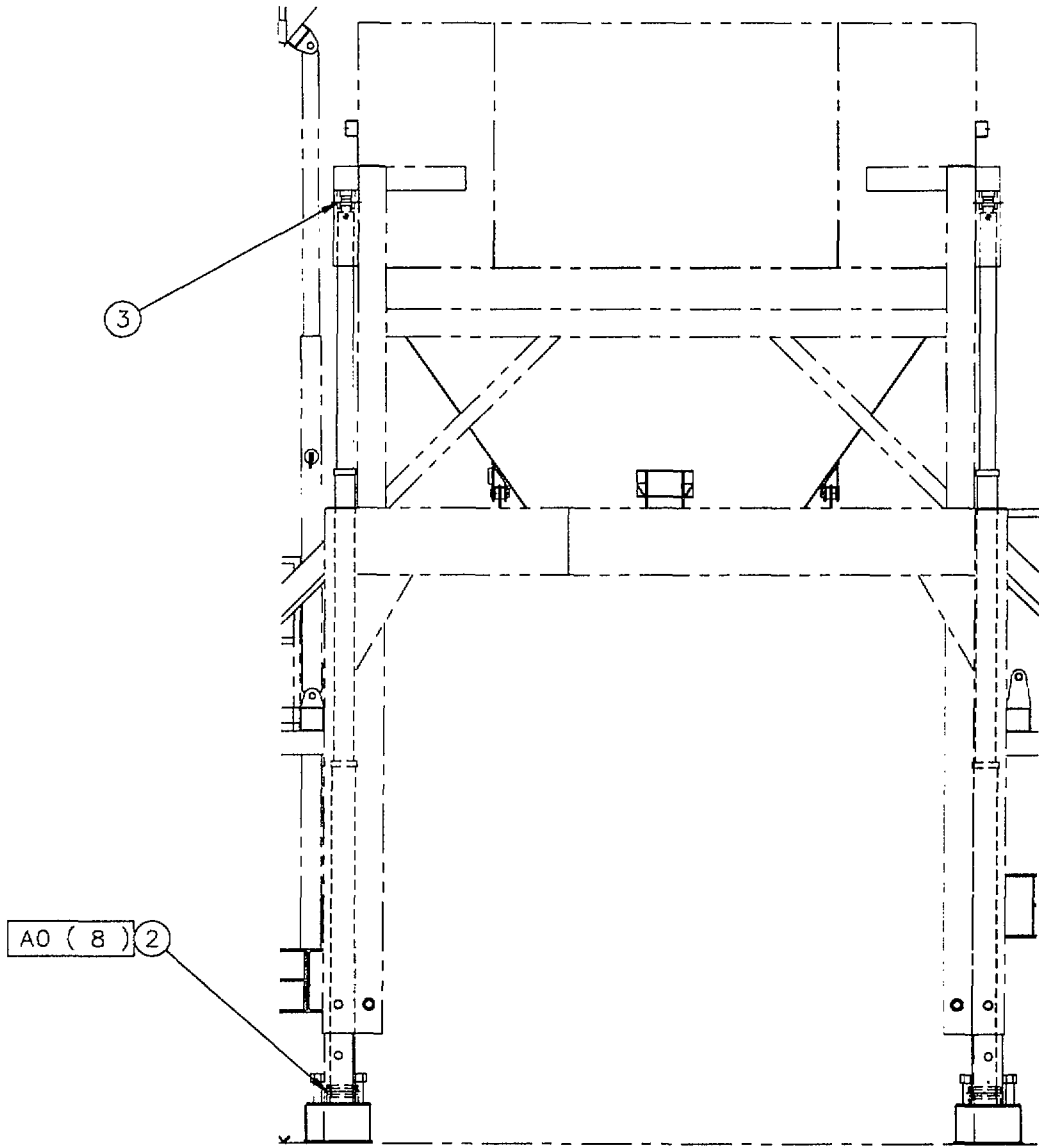


Figure 117 - Hopper Lift Assembly



**FIGURE 118**  
**HOPPER DOOR**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-23		HOPPER DOOR	Fig 118	2
118-1	1	MP X-381-41	3AB03	HOPPER GATE HITCH PIN		2
118-2	1	MP X-211-63	3AB03	DOOR LATCH		2
118-3	1	MP X-211-65	3AB03	DOOR LATCH		2
118-4	1	52-400-26	3AB03	HOPPER DOOR		2
118-A9	1	COMMERCIAL		BOLT 1" X 2 1/2" LG, SL		2
118-B7	1	COMMERCIAL		FLAT WASHER 3/4"		4
118-C0	1	COMMERCIAL		COTTER PIN 1/4" X 1 1/4" LG		2
118-D7	1	COMMERCIAL		FLAT WASHER 3/4"		2
118-E7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, FW		2

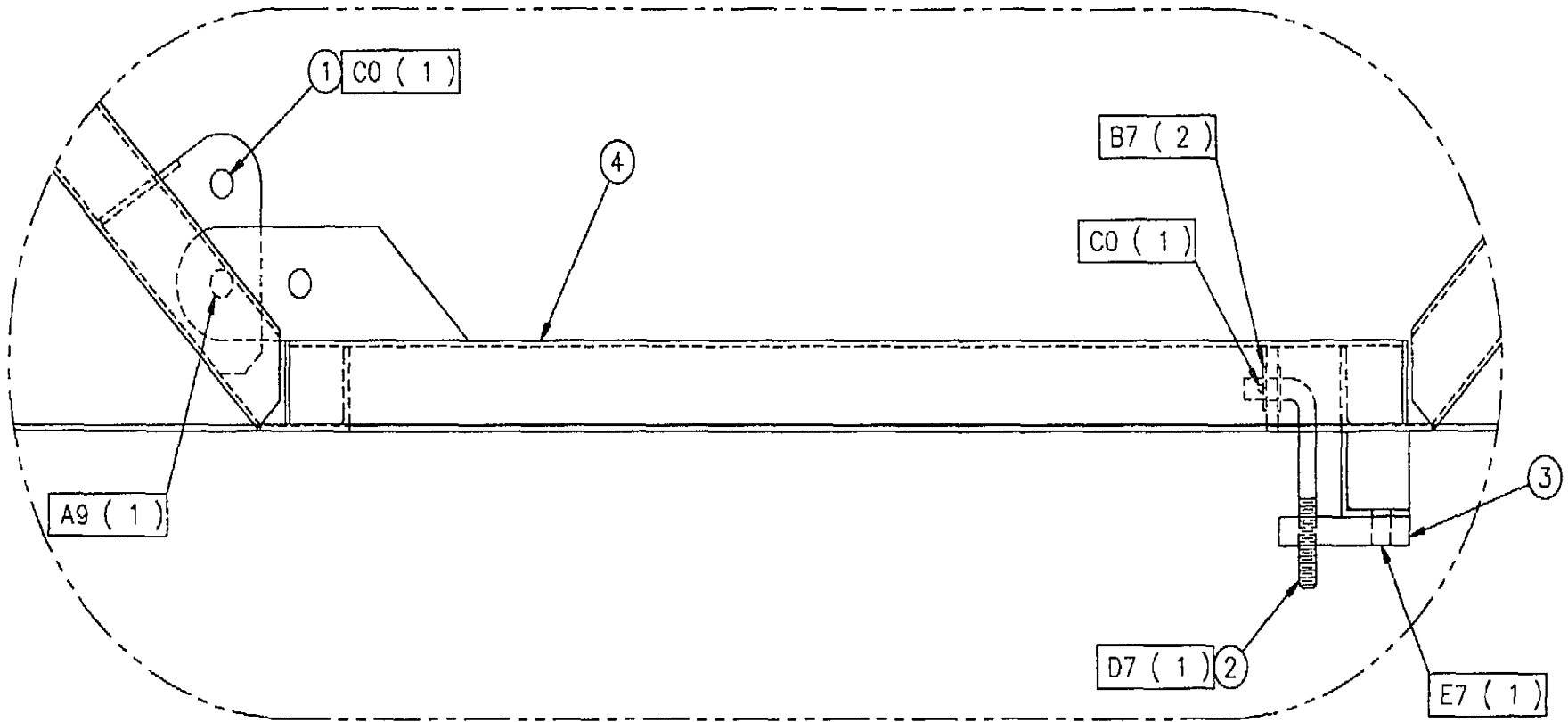


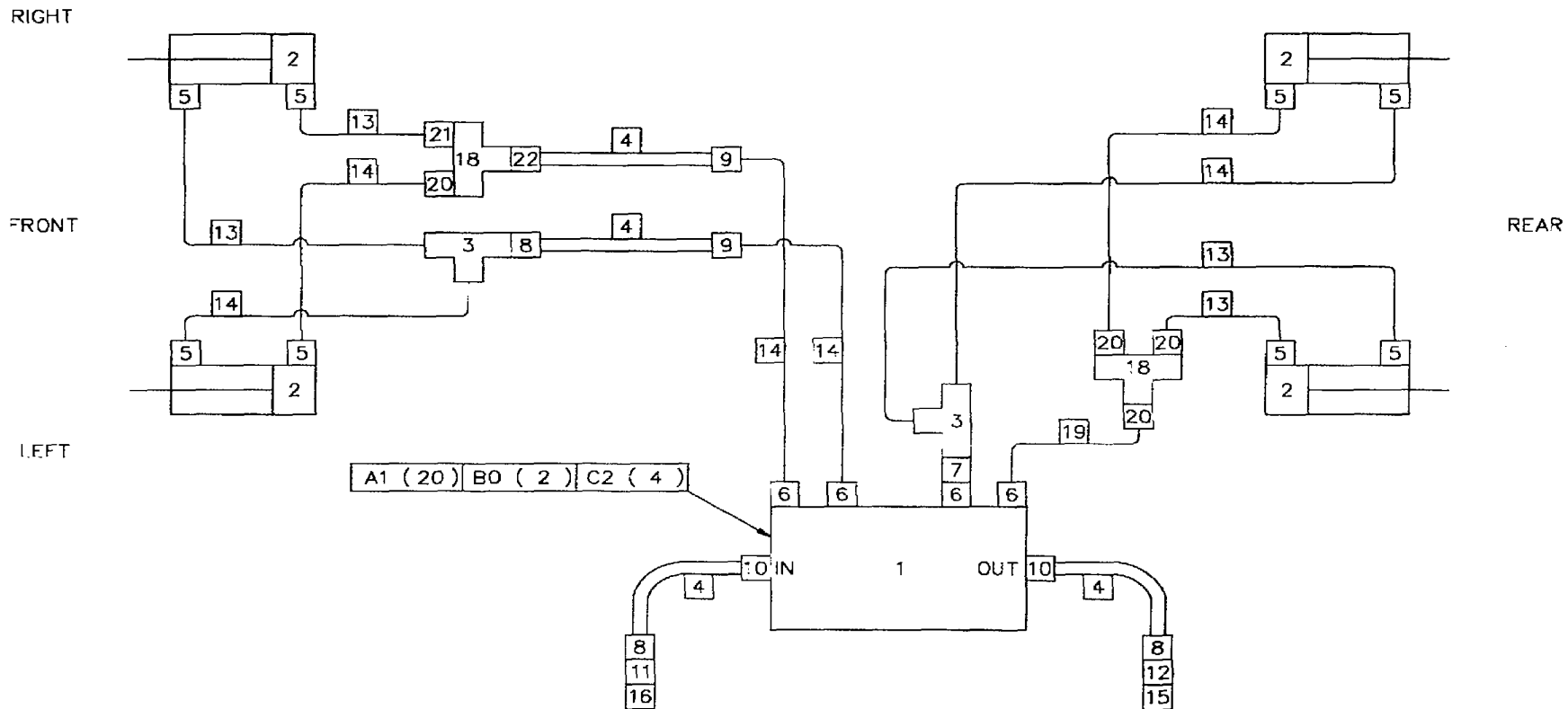
Figure 118 - Hopper Door

FIGURE 119

LEVELING JACK PIPING

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-34		LEVELLING JACK PIPING	Fig 119	
119-1	1	H2 90-983-99	3ABO3	CONTROL VALVE		1
119-2	1	H2 03-950-20	3ABO3	HYDRAULIC CYLINDER 5" BORE X 18" STROKE	Fig 152	4
119-3	1	H2 2255-8-8S	01276	1/2" NPT FEMALE SWIVEL TEE		2
119-4	1		3ABO3	1/2" HYDRAULIC TUBING C/W 1290-8S FLARE NUT AND 900605-8S SLEEVE LENGTH AS REQUIRED		4
119-5	1	H2 2047-8-8S	01276	90 DEG SWIVEL 1/2" NPT MALE-1/2" NPT FEMALE		8
119-6	1	H2 2068-8-6S	01276	90 DEG SWIVEL 3/8" ORB MALE-1/2" NPT FEMALE		4
119-7	1	H2 2083-8-8S	01276	1/2" NPT MALE - 1/2" NPT MALE		1
119-8	1	H2 2021-8-8S	01276	1/2" NPT MALE - 1/2" JIC MALE		3
119-9	1	H2 2022-8-8S	01276	1/2" JIC MALE - 1/2" NPT FEMALE		2
119-10	1	H2 202702-6-8S	01276	3/8" ORB MALE - 1/2" JIC MALE		2
119-11	1	H2 5601-08-10	01276	FLUID TRANSFER COUPLING		1
119-12	1	H2 FD76-1002-08-10	01276	FLUID TRANSFER COUPLING		1
119-13	1	2'- 6" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		4
119-14	1	11'- 6" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		6
119-15	1	H2 5657-10	01276	CAP		1
119-16	1	H2 5659-10	01276	PLUG		1
119-17	1	C2 03-120-88	3ABO3	HOSE CLAMP AS REQUIRED		
119-18	1	H2 PDC-8-50	02249	FLOW DIVIDER		2
119-19	1	2'- 0" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
119-20	1	H2 2066-8-8S	01276	1/2" ORB MALE - 1/2" NPT FEMALE SWIVEL		4

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
119-21	1	H2 2068-8-8S	01276	1/2" ORB MALE - 1/2" NPT 90 DEG FEMALE SWIVEL		1
119-22	1	H2 2061-8-8S	01276	1/2" JIC MALE - 1/2" ORB MALE X 45 DEG		1
119-A1	1	COMMERCIAL		1/4" NUT, LW, FW		20
119-B0	1	COMMERCIAL		SPAENAUER #UB-1X U BOLT		2
119-C2	1	COMMERCIAL		BOLT 5/16" X 3" LG, NUT, LW, FW		4



17 - ANY CLAMPS REQUIRED FOR THIS PIPING, CAN BE ORDERED USING THE INFORMATION PROVIDED IN THE PRECEDING TABLE.

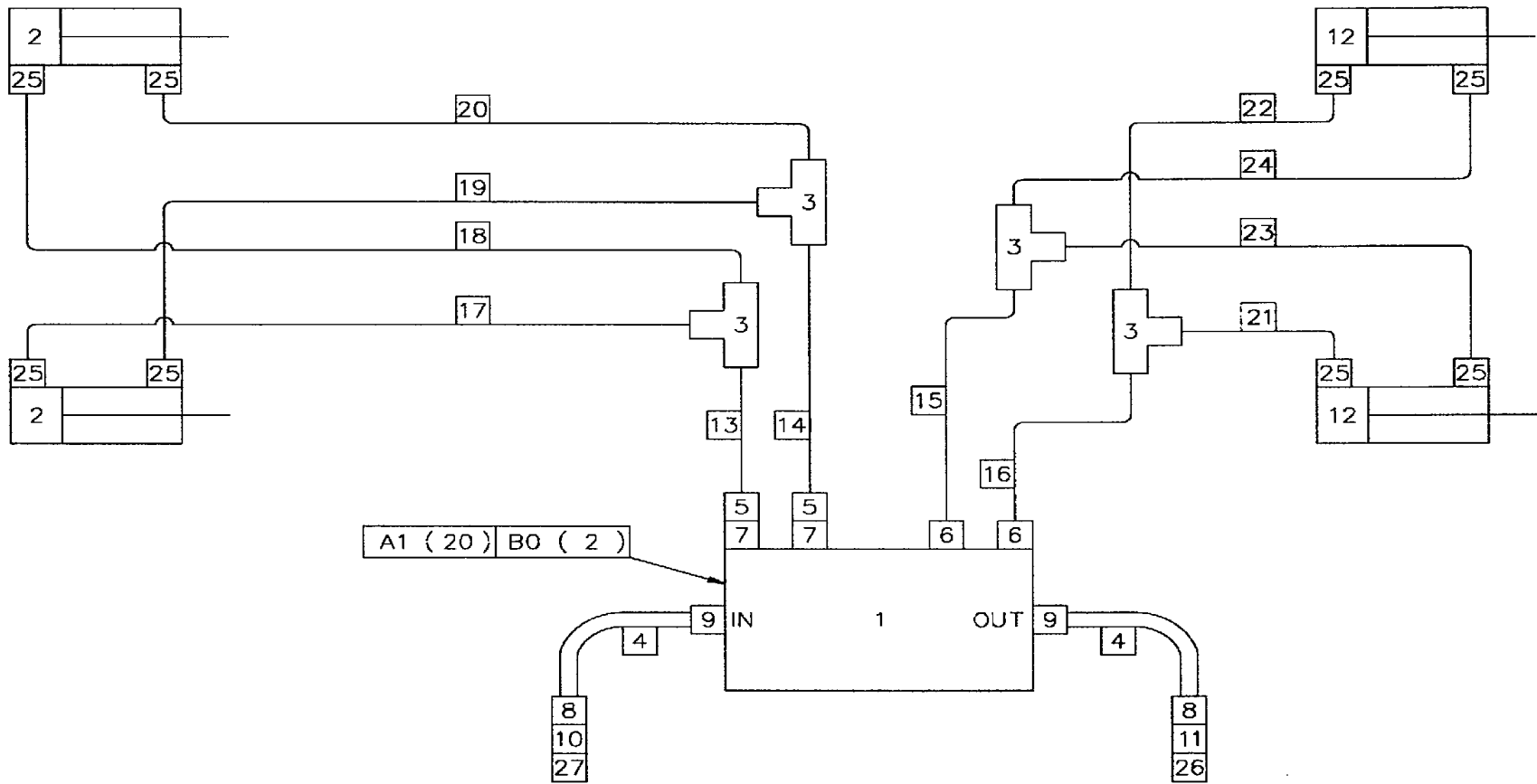
Figure 119 - Leveling Jack Piping

## FIGURE 120

## CONVEYOR HYDRAULIC FOLD PIPING

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-35		CONVEYOR HYDRAULIC FOLD PIPING	Fig 120	
120-1	1	H2 90-983-99	3ABO3	CONTROL VALVE		1
120-2	1	H2 03-950-19	3ABO3	HYDRAULIC CYLINDER 4" BORE X 24" STROKE	Fig 149	2
120-3	1	H2 2255-8-8S	01276	1/2" NPT FEMALE SWIVEL TEE		4
120-4	1		3ABO3	1/2" HYDRAULIC TUBING C/W 1290-8S FLARE NUT AND 900605-8S SLEEVE LENGTH AS REQUIRED		2
120-5	1	H2 2047-8-8S	01276	90 DEG SWIVEL 1/2" NPT MALE-1/2" NPT FEMALE		2
120-6	1	H2 2068-8-6S	01276	90 DEG SWIVEL 3/8" ORB MALE-1/2" NPT FEMALE		2
120-7	1	H2 2066-8-6S	01276	3/8" ORB MALE - 1/2" NPT FEMALE SWIVEL		2
120-8	1	H2 2021-8-8S	01276	1/2" NPT MALE - 1/2" JIC MALE		2
120-9	1	H2 202702-6-8S	01276	3/8" ORB MALE - 1/2" JIC MALE		2
120-10	1	H2 5601-08-10	01276	FLUID TRANSFER COUPLING FEMALE		1
120-11	1	H2 FD76-1002-08-10	01276	FLUID TRANSFER COUPLING MALE		1
120-12	1	H2 03-950-18	3ABO3	HYDRAULIC CYLINDER 4" BORE X 12" STROKE	Fig 151	2
120-13	1	10'- 10" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-14	1	10'- 9" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-15	1	10'- 8" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-16	1	10'- 7" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-17	1	3'- 6" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
120-18	1	7'- 3" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-19	1	4'- 6" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-20	1	8'- 9" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-21	1	9'- 0" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-22	1	13'- 0" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-23	1	10'- 4" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-24	1	14'- 4" 1/2"X1/2" NPT	COMM.	HOSE ASSEMBLY		1
120-25	1	H2 2047-8-8S	01276	90 DEG SWIVEL 1/2" NPT MALE-1/2" NPT FEMALE WITH 1/32" ORFICE		8
120-26	1	H2 5657-10	01276	CAP		1
120-27	1	H2 5659-10	01276	PLUG		1
120-28	1	C2 03-120-88	3ABO3	CLAMP AS REQUIRED		
120-A1	1	COMMERCIAL		1/4" NUT, LW, FW		20
120-B0	1	COMMERCIAL		SPAENAUER #UB-1X U BOLT		2



②⑧ – ANY CLAMPS REQUIRED FOR THIS PIPING, CAN BE ORDERED USING THE INFORMATION PROVIDED IN THE PRECEDING TABLE.

Figure 120 - Conveyor Hydraulic Fold Piping



**FIGURE 121**  
**EXHAUST LOUVRE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-31		EXHAUST LOUVRE	Fig 121	
121-1	1	MP 51-401-61	3ABO3	OUTLET AIR FLOW CONTROL SECTION		1
121-3	1	MP 51-401-62	3ABO3	LOUVRE CONTROL ARM ASSEMBLY		1
121-4	1	MP 51-401-63	3ABO3	LOUVRE CONTROL ARM ASSEMBLY		1
121-5	1	MP 51-401-64	3ABO3	LOUVRE CONTROL ARM ASSEMBLY		1
121-6	1	MP 51-401-65	3ABO3	LOUVRE CONTROL ARM ASSEMBLY		1
121-7	1	MP 51-401-66	3ABO3	FAN OUTLET LOUVRE		4
121-8	1	MP X-273-265	3ABO3	ACTUATOR CLEVIS		1
121-9	1	MP X-273-405	3ABO3	ACTUATOR CLEVIS		1
121-10	1	MP 51-201-19	3ABO3	LOUVRE CONTROL ARM		1
121-11	1	MP 51-201-20	3ABO3	LOUVRE CONTROL LINKAGE MEMBER		1
121-12	1	MP 51-201-21	3ABO3	LOUVRE CONTROL LINKAGE MEMBER		1
121-13	1	MP 03-401-37	3ABO3	PIN ASSEMBLY		2
121-14	1	E4 MPA-6415-06	0WXN8	DAMPER ACTUATOR	Fig C11	1
121-15	1	B2 UCFL201-008 D1	1C960	FLANGE BEARING		8
121-16	1	51-926-03	3ABO3	EXHAUST LOUVRE GASKET		2
121-A0	1	COMMERCIAL		SPRING PIN 5/32" X 1 1/4" LG		14
121-B3	1	COMMERCIAL		BOLT 3/8" X 1 1/4" NUT, LW		16
121-C3	1	COMMERCIAL		BOLT 3/8" X 2 1/4" NUT, LW		2
121-D1	1	COMMERCIAL		BOLT 1/4" X 1 1/4" SL		2

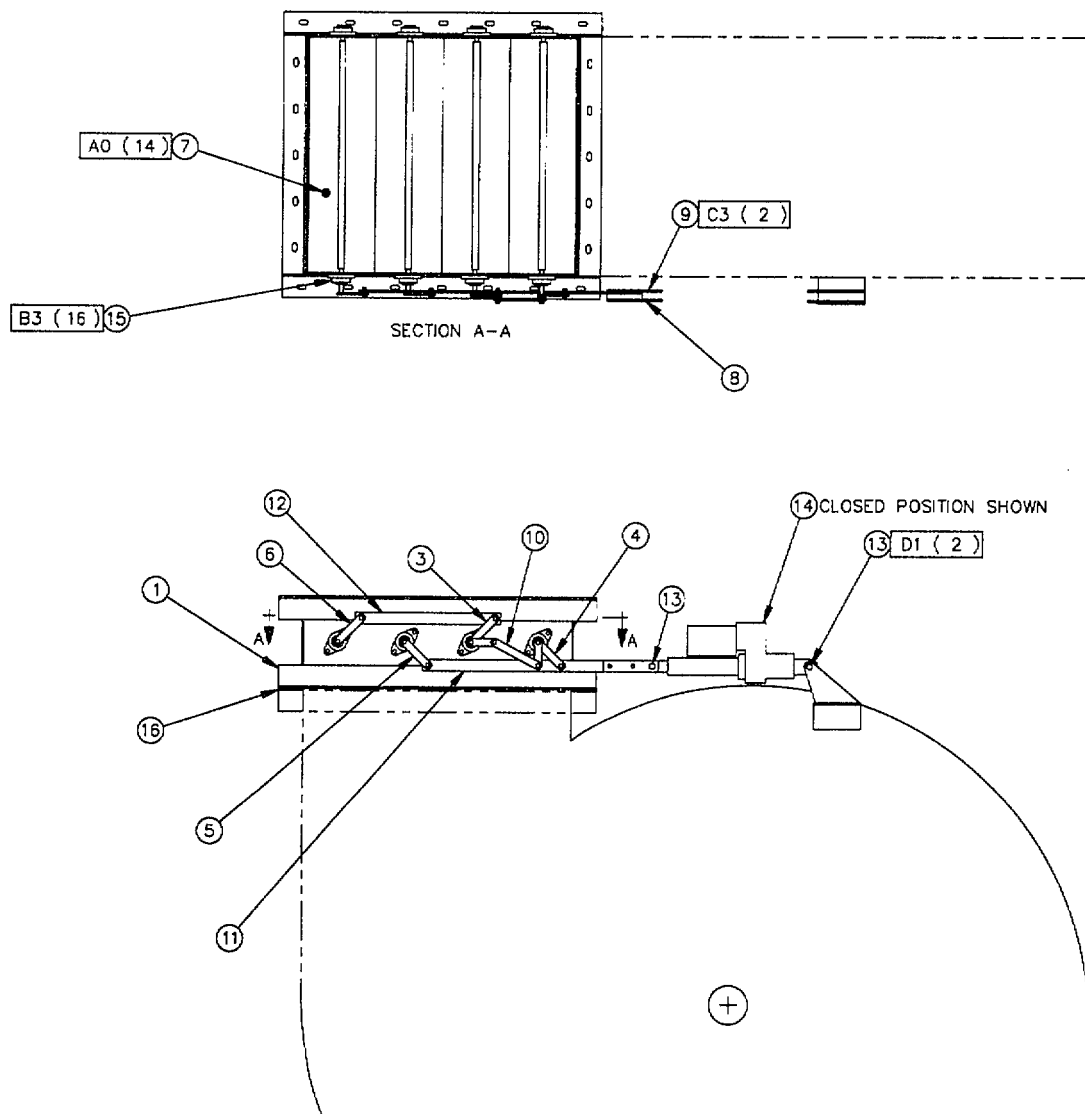


Figure 121 - Exhaust Louvre

**FIGURE 122  
SUSPENSION ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	61-450-15		SUSPENSION ASSEMBLY	Fig 122	1
122-1	1	TR-572-MS	73842	VALVE STEM		8
122-2	1	135-802-002-0-000	73842	RADIAL TIRE 11R22.5		8
122-3	1	46213B	41885	WHEEL 8.25 X 22.5		8
122-4	1	D21-FC167-SWN-5	77WXM9	AXLE	Fig C2	2
122-5	1	21B-222-FAB-WB-1 5-50-5592	99062	SUSPENSION	Fig C3	1

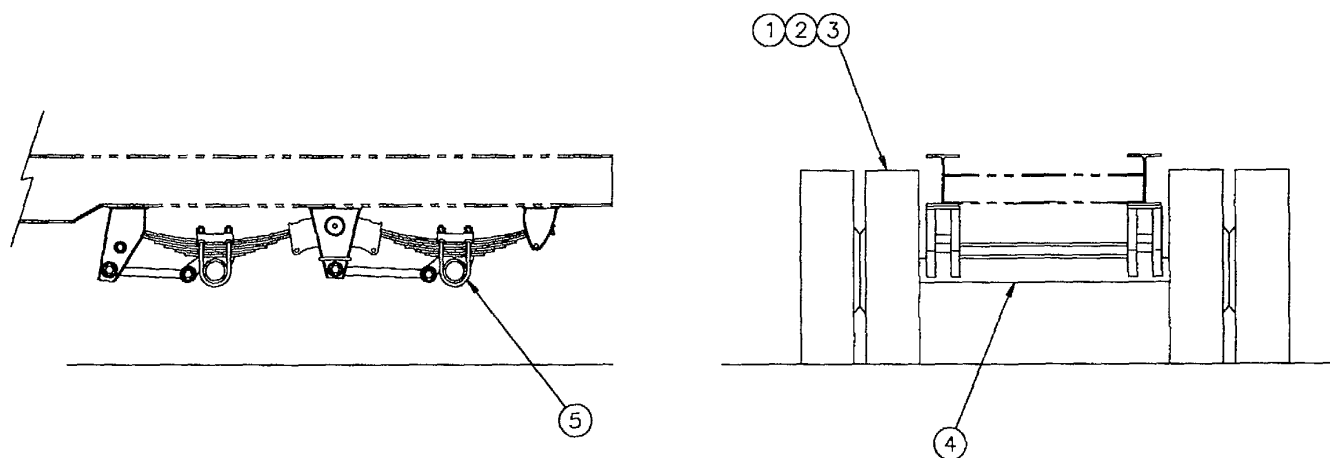
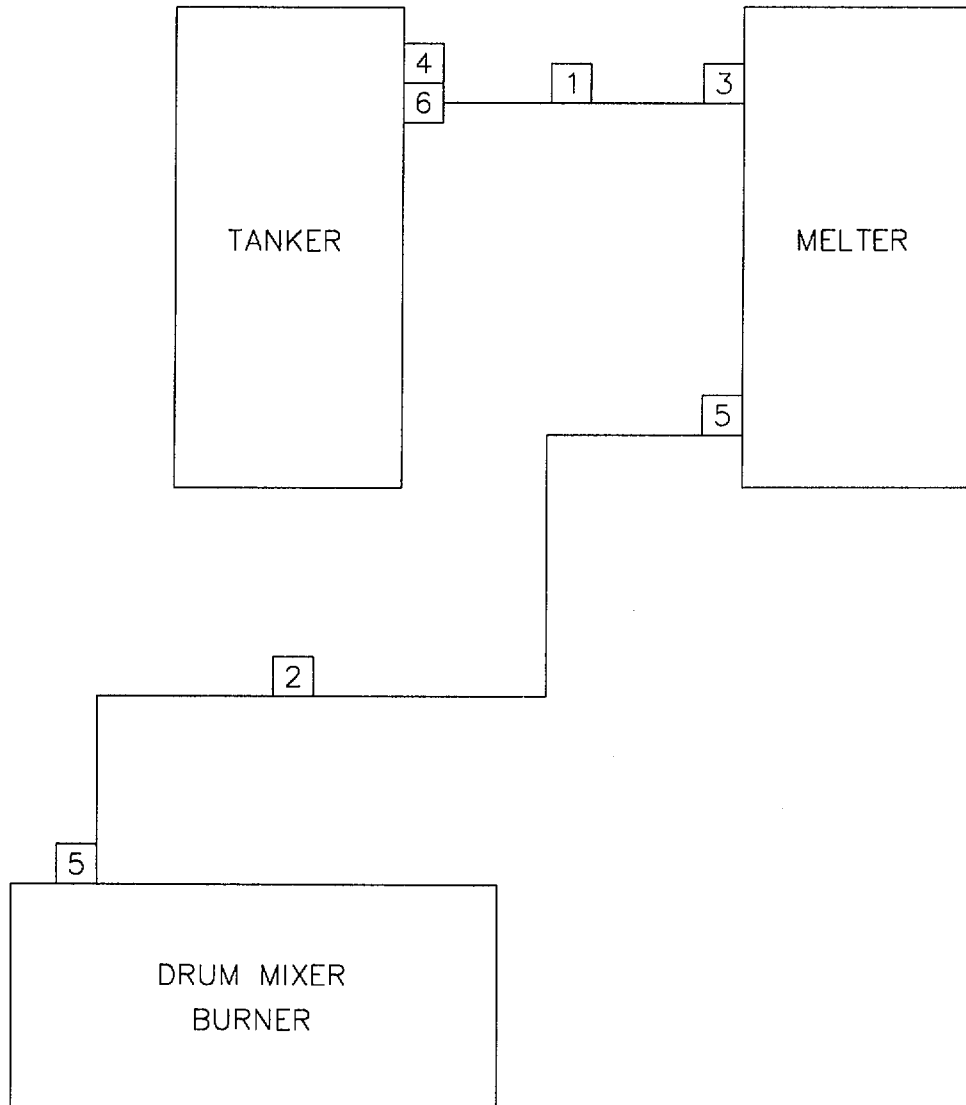


Figure 122-Suspension Assembly

**FIGURE 123  
FUEL OIL TRANSFER PIPING**

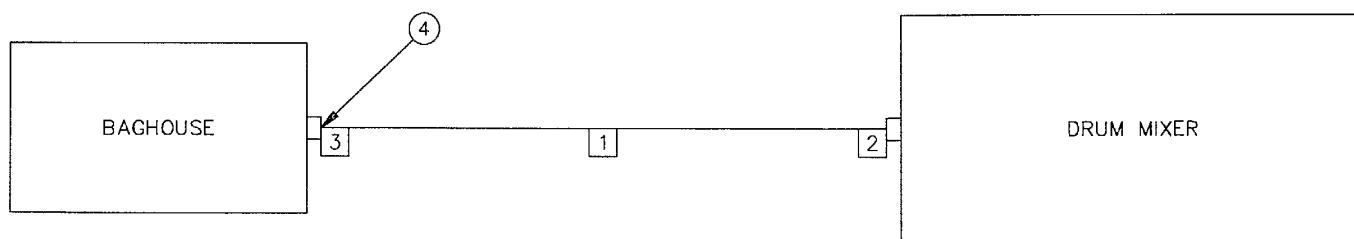
FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-28		FUEL OIL TRANSFER PIPING	Fig 123	
123-1	1	COMMERCIAL		HYDRAULIC HOSE 1/2"663-8 HI IMPULSE 2500 PSI ENDS 3/8" JIC MALE - 3/8" NPT MALE		1
123-2	1	COMMERCIAL		FUEL LINE 1 1/4" 2.1 MPA 300 PSI JIC FEMALE SWIVEL ENDS		1
123-3	1	H2 210292-6S	01276	3/8" JIC CAP		1
123-4	1	H2 900599-8S	01276	1/2" JIC PLUG		1
123-5	1	H2 210292-20S	01276	1 1/4" JIC CAP		2
123-6	1	H2 2242-6-6S	01276	COUPLING 3/8" NPT FEM-3/8" JIC FEMALE SWIVEL		1



*Figure 123-Fuel Oil Transfer Piping*  
page 123-2

**FIGURE 124  
FINES RETURN HOSE ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-452-53		FINES RETURN HOSE ASSEMBLY	Fig 124	
124-1	1	COMMERCIAL		4" H4000 PETRO. HOSE X 18'8' LG C\W 4" KC NIPPLE W\FLANGE AND 4" FEMALE - 4" HOSE CAMLOCK		1
124-2	1	COMMERCIAL		4" CAMLOCK PLUG		1
124-3	1	MP 51-100-15	3ABO3	FLANGE CAP 4"		1
124-4	1	COMMERCIAL		GASKET		1

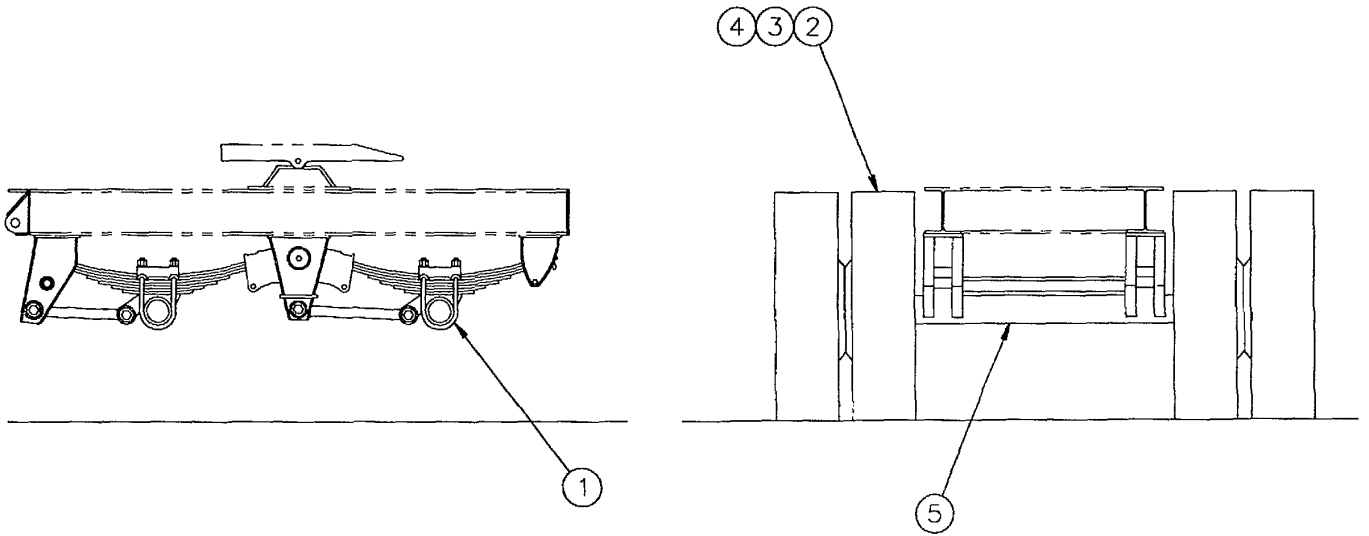


*Figure 124-Fines Return Hose Assembly*



**FIGURE 125  
SUSPENSION ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-75		SUSPENSION ASSEMBLY	Fig 125	
125-1	1	C2 21B-FAB-222-WB- 13.25-C-50-5592	99062	SUSPENSION	Fig C3	1
125-2	1	C2 135-802-002-0-000	73842	RADIAL TIRE 11R22.5		8
125-3	1	C2 43213B	41885	WHEEL 8.25 X 22.5		8
125-4	1	C2 TR-572-MS	73842	VALVE STEM		8
125-5	1	C2 D21FC167SWN81 011-71"	0WXM9	AXLE	Fig C2	2



**Figure 125-Suspension Assembly**

**FIGURE 126  
ASPHALT CALIBRATION EQUIPMENT**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-72		ASPHALT CALIBRATION EQUIPMENT	Fig 126	
126-1	1	MP 51-402-28	3ABO3	TANK 500 GAL.		1
126-2	1	E4 10-987-41	3ABO3	LOAD CELL 10K		1
126-3	1	MP 51-402-29	3ABO3	TOP FRAME		1
126-4	1	MP 51-402-30	3ABO3	BOTTOM FRAME		1
126-5	1	COMMERCIAL		CHAIN QUICK CONNECTS 3/8"		6
126-6	1	51-452-23	3ABO3	ASPHALT CALIBRATION PIPING	Fig 127	1
126-7	1	MP 51-402-40	3ABO3	CALIBRATION WEIGHT		2
126-8	1	COMMERCIAL		LOAD BINDERS - 3/8"		2
126-A7	1	COMMERCIAL		BOLT 3/4" X 1 3/4" LG, NUT, LW		6
126-B7	1	COMMERCIAL		NUT 3/4"		6
126-C0	1	COMMERCIAL		STUD 3/4" X 5" LG		1
126-D0	1	COMMERCIAL		STUD 3/4" X 10 3/4" LG		1
126-E5	1	COMMERCIAL		BOLT 1/2" X 4" LG, NUT, LW		4
126-F1	1	COMMERCIAL		NL 1/4"		2

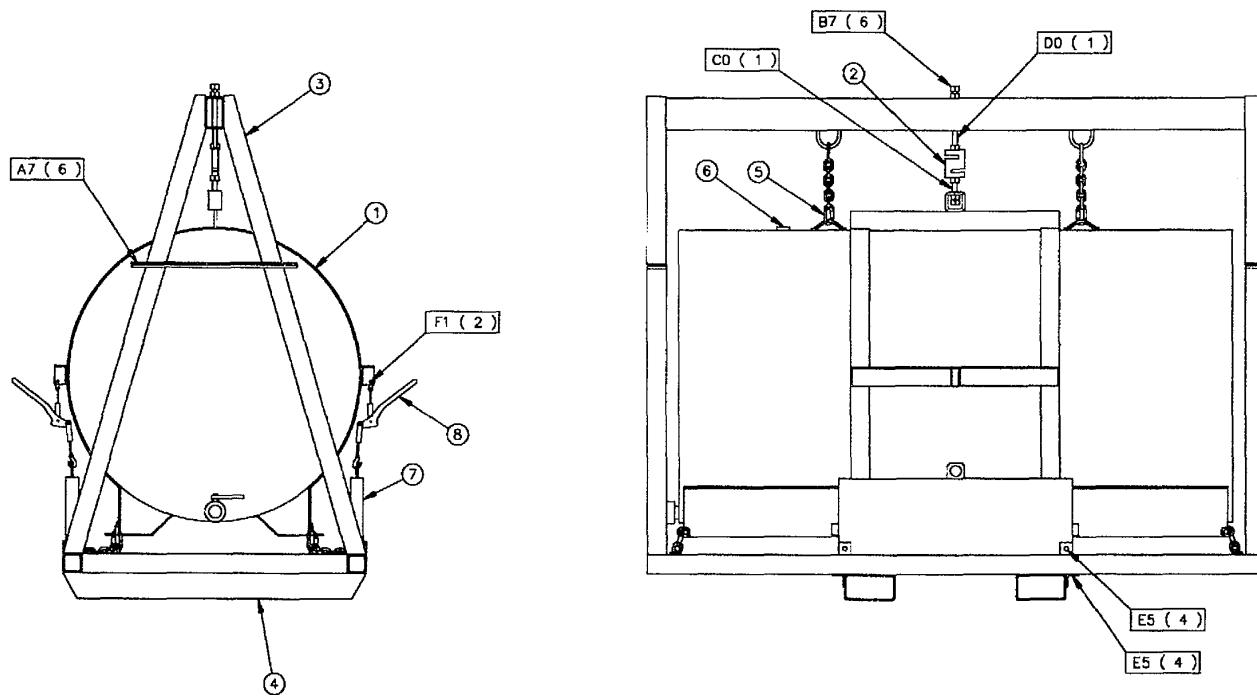
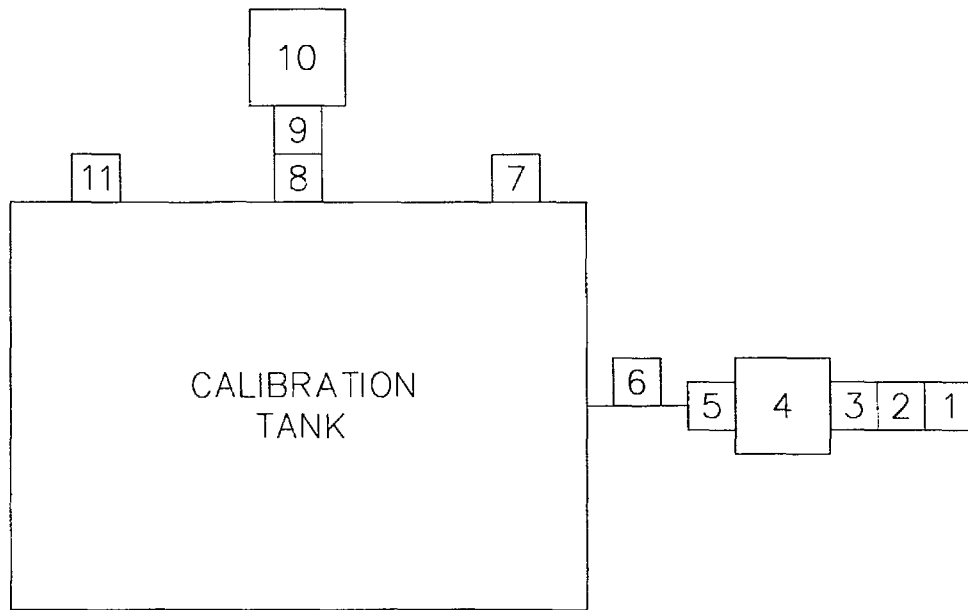


Figure 126-Asphalt Calibration Equipment

**FIGURE 127  
ASPHALT CALIBRATION PIPING**

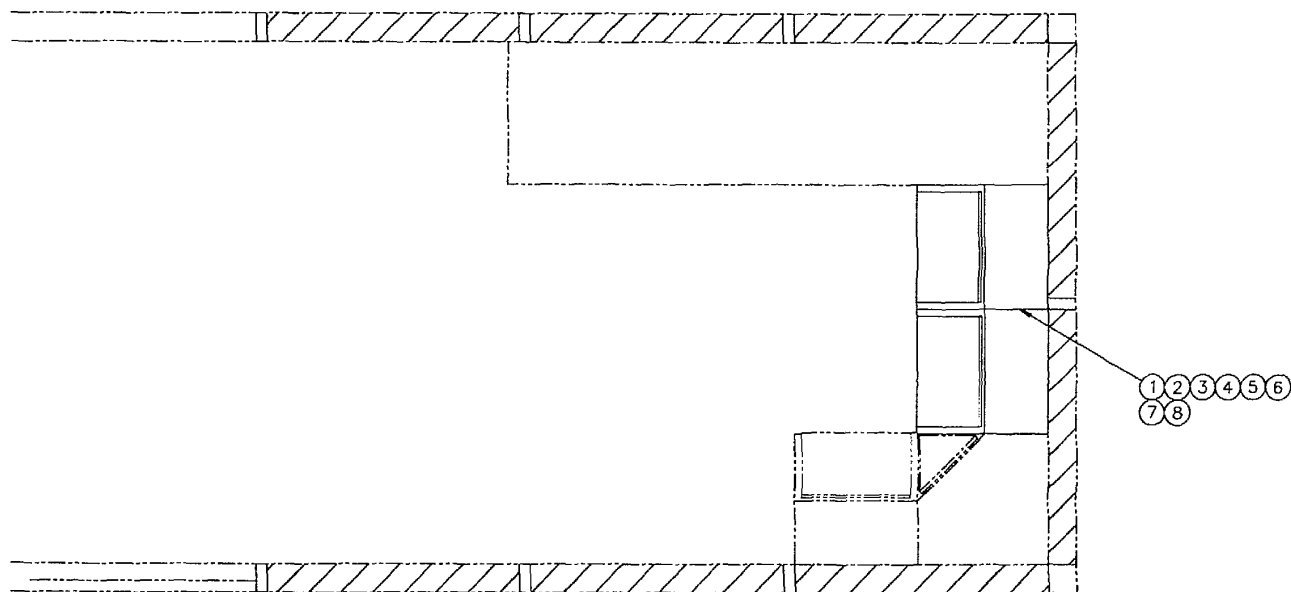
FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-23		ASPHALT CALIBRATION PIPING	Fig 127	
127-1	1	COMMERCIAL		CAMLOCK PLUG 2"		1
127-2	1	COMMERCIAL		ADAPTER 2" FEMALE CAMLOCK-2" NPT FEMALE		1
127-3	1	COMMERCIAL		CLOSE NIPPLE 2"		1
127-4	1	COMMERCIAL		PLUG VALVE 2"		1
127-5	1	COMMERCIAL		BUSHING 1 1/2"-2" NPT		1
127-6	1	COMMERCIAL		PIPE 1 1/2" NPT		1
127-7	1	COMMERCIAL		PLUG 2 1/2" NPT		1
127-8	1	COMMERCIAL		BUSHING 1 1/2"-1 1/4" NPT		1
127-9	1	COMMERCIAL		BUSHING 1 1/4"-3/4" NPT		1
127-10	1	COMMERCIAL		BREATHER CAP 3/4" NPT		1
127-11	1	COMMERCIAL		PLUG 2" NPT		1



**Figure 127-Asphalt Calibration Piping**

**FIGURE 128  
PROGRAMMABLE CONTROLLER**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-27		PROGRAMABLE CONTROLLER	Fig 128	
128-1	1	E4 1746-A13	0CGS1	ALLEN BRADLEY RACK		1
128-2	1	E4 1746-IA16	0CGS1	ALLEN BRADLEY 120 VAC INPUT CARD		8
128-3	1	E4 1746-OW16	0CGS1	ALLEN BRADLEY RELAY OUTPUT CARD		6
128-4	1	E4 1746-P2	0CGS1	ALLEN BRADLEY 120/240 VAC POWER SUPPLY		2
128-5	1	E4 1747-L514	0CGS1	ALLEN BRADLEY SLC-5/01 PROCESSOR		1
128-6	1	E4 1747-DTAM/E	0CGS1	ALLEN BRADLEY OPERATOR PANEL		1
128-7	1	E4 1746-A7	0CGS1	ALLEN BRADLEY RACK		1
128-8	1	E4 1746-C9	0CGS1	ALLEN BRADLEY INTERCONNECTING CABLE		1

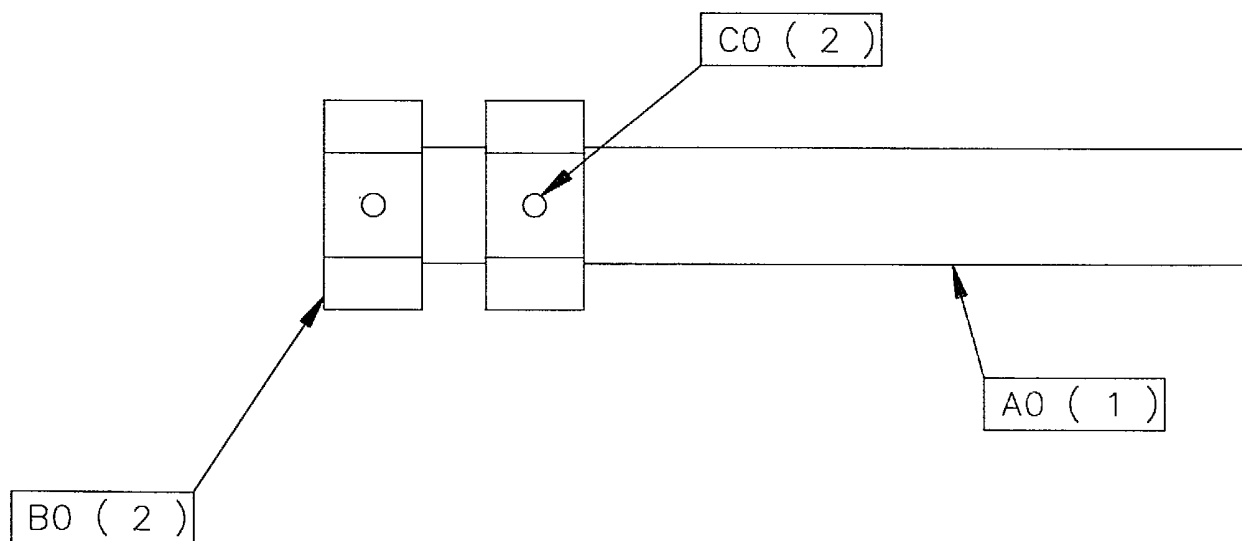


**Figure 128-Programmable Controller**



**FIGURE 129  
TAKE UP ROD ASSEMBLY**

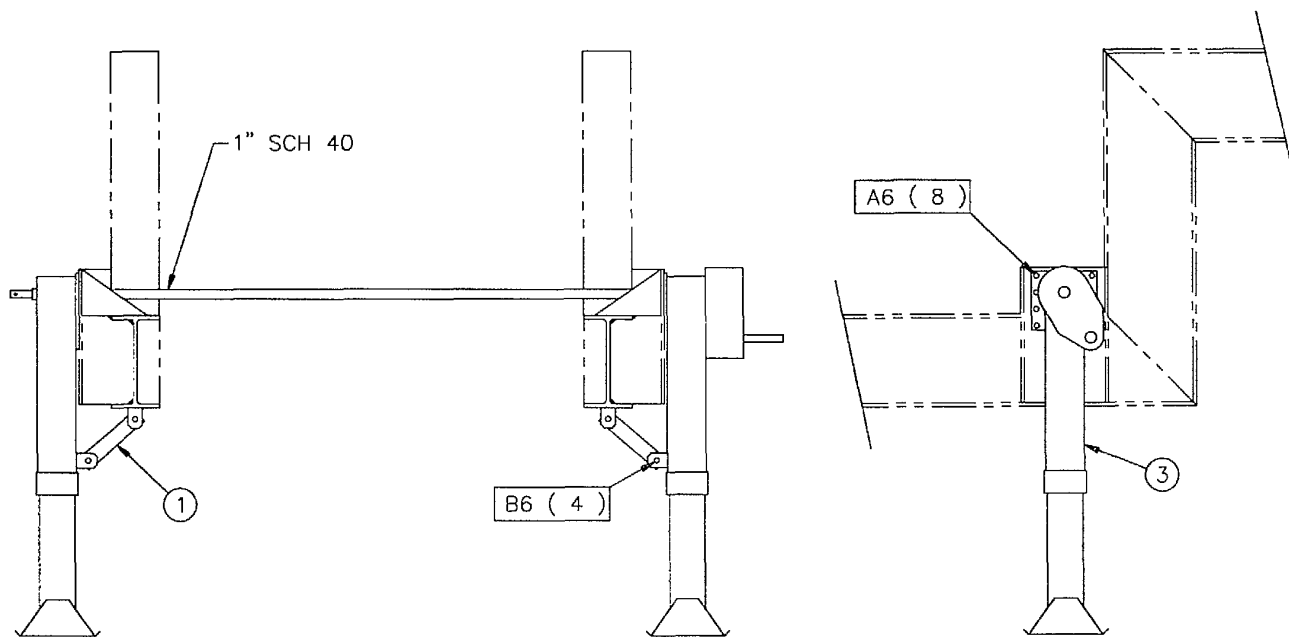
<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	52-450-13		TAKE UP ROD ASSEMBLY	Fig 129	2
129-A0	1	COMMERCIAL		ALL THREAD 1 1/4"- 7 UNC X 10"LG		1
129-B0	1	COMMERCIAL		NUT 1 1/4"-7UNC		2
129-C0	1	COMMERCIAL		ROLL PIN 1/4" X 1 7/8"		2



*Figure 129-Take Up Rod Assembly*

**FIGURE 130  
LANDING JACK**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-15		LANDING JACK	Fig 130	1
130-1	1	MP 51-200-31	3ABO3	BRACE		2
130-3	1	C2 LG75-4A-113	74410	LANDING GEAR SET		1
130-A6	1	COMMERCIAL		BOLT 5/8" X 1 3/4" LG, NUT, LW		16
130-B6	1	COMMERCIAL		BOLT 5/8" X 1 3/4" LG, NUT, LW		4



**Figure 130-Landing Jack**

**FIGURE 131  
5TH WHEEL ADAPTER**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-30		5TH WHEEL ADAPTER	Fig 131	
131-1	1	51-400-14	3ABO3	5TH WHEEL ADAPTER		1
131-A7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT (2)		12
131-B7	1	COMMERCIAL		BOLT 3/4" X 2" LG, NUT, LW, BW		1

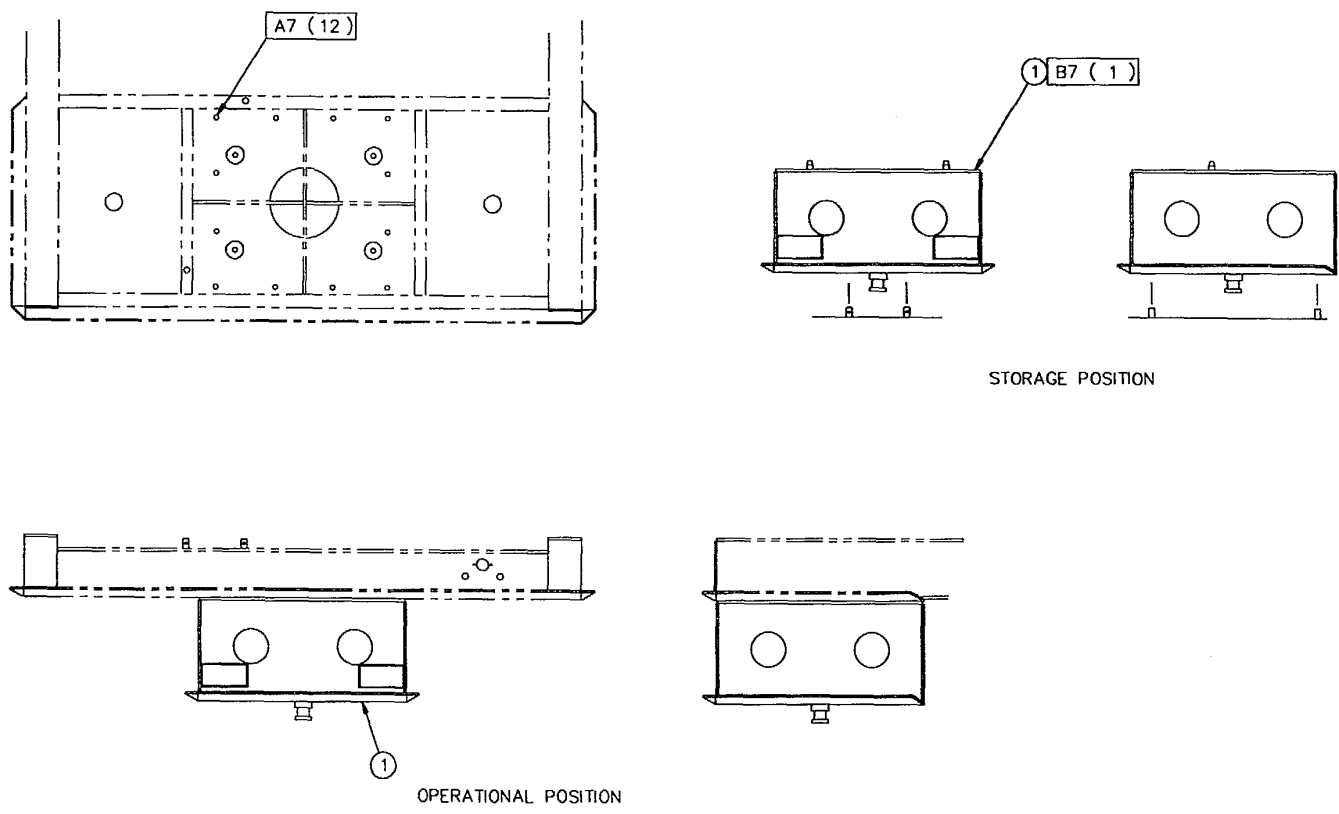
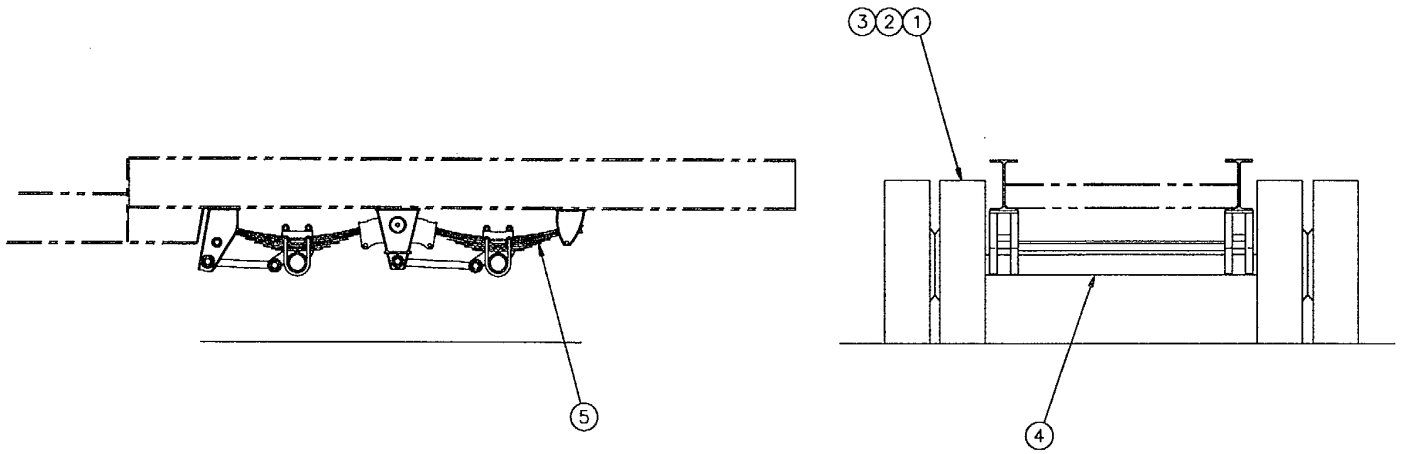


Figure 131-5<sup>th</sup> Wheel Adapter

**FIGURE 132  
SUSPENSION ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-23		SUSPENSION ASSEMBLY	Fig 132	1
132-1	1	C2 135-802-002-0-000	73842	RADIAL TIRE 11R22.5		8
132-2	1	C2 46-213-B	41885	WHEEL 8.25 X 22.5		8
132-3	1	C2 TR-572-MS	73842	VALVE STEM		8
132-4	1	C2 D21FC167SWN81 011-92	0WXM9	AXLE	Fig C2	2
132-5	1	C2 21B-FAB-222-WB- 13.25-C-50-5592	99062	SUSPENSION	Fig C3	1

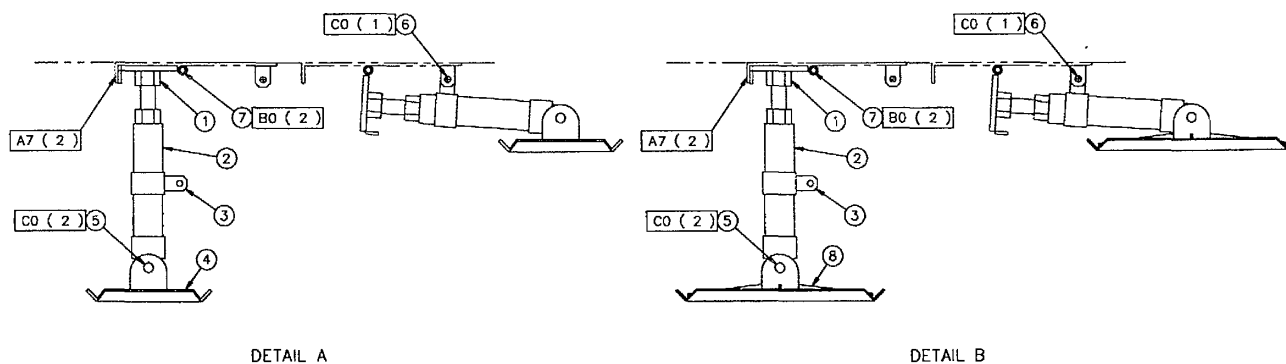
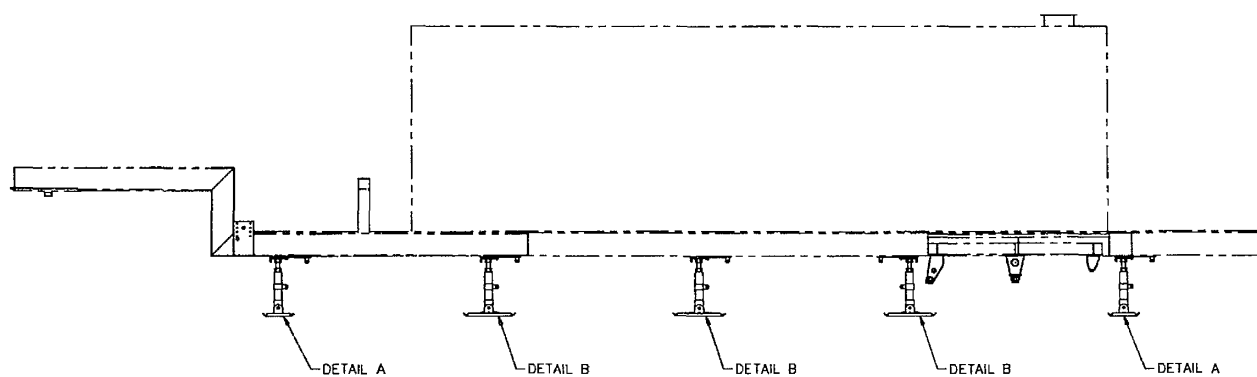


*Figure 132-Suspension Assembly*



**FIGURE 133  
SCREW JACK**

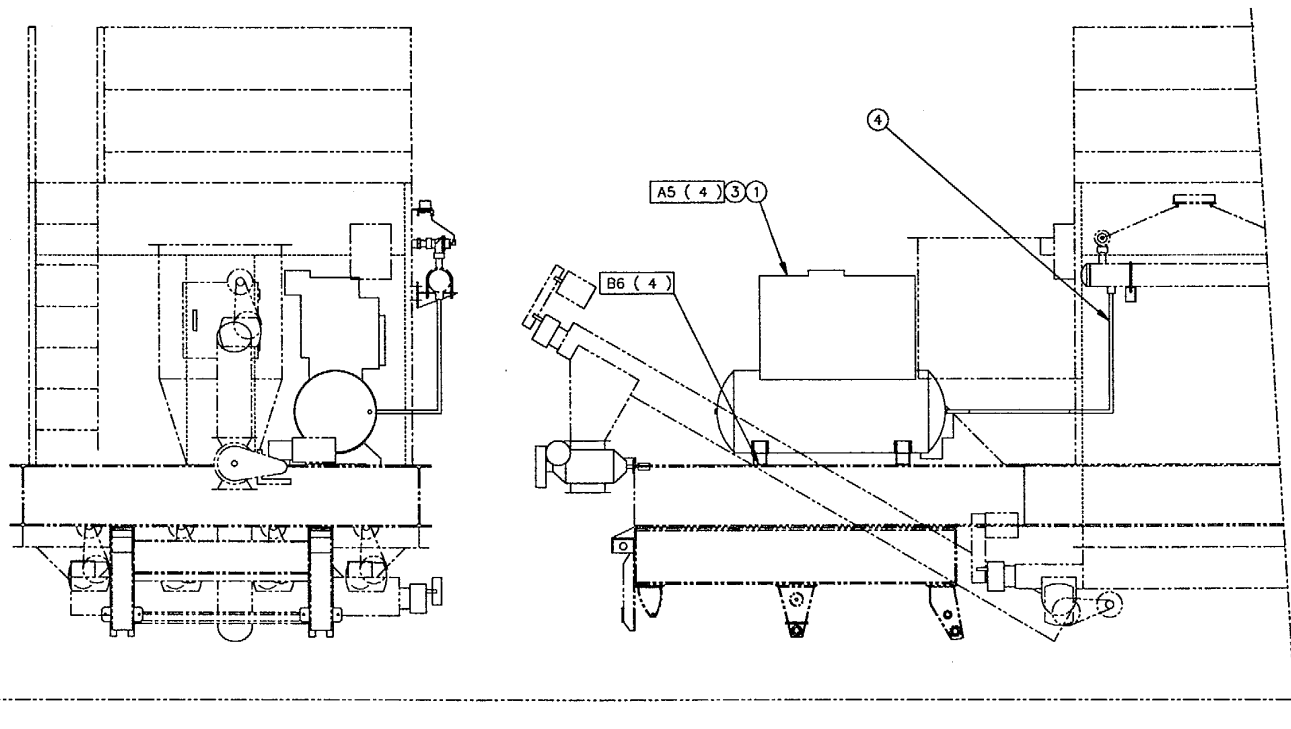
FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-21		SCREW JACK	Fig 133	1
133-1	1	MP 51-400-44-C	3ABO3	SCREW JACK TOP PLATE		10
133-2	1	MP 51-400-00	3ABO3	SCREW JACK BODY		10
133-3	1	MP 51-401-17	3ABO3	SCREW JACK COLLAR		10
133-4	1	MP 51-401-09	3ABO3	BASE PLATE		4
133-5	1	MP 51-400-59-B	3ABO3	PINS - DETAIL B		10
133-6	1	MP 51-400-59-A	3ABO3	PINS - DETAIL A		10
133-7	1	MP 51-400-44-A	3ABO3	SCREW JACK TOP PLATE DETAIL A		10
133-8	1	MP 51-400-43	3ABO3	SCREW JACK BASE PLATE		6
133-A7	1	COMMERCIAL		BOLT 3/4" X 2 1/2" LG, NUT, LW		20
133-B0	1	COMMERCIAL		COTTER PIN 3/16" X 1 1/4" LG		20
133-C0	1	COMMERCIAL		QUICK-PIN 1/4"		30



**Figure 133-Screw Jack**

**FIGURE 134  
PNEUMATIC SYSTEM**

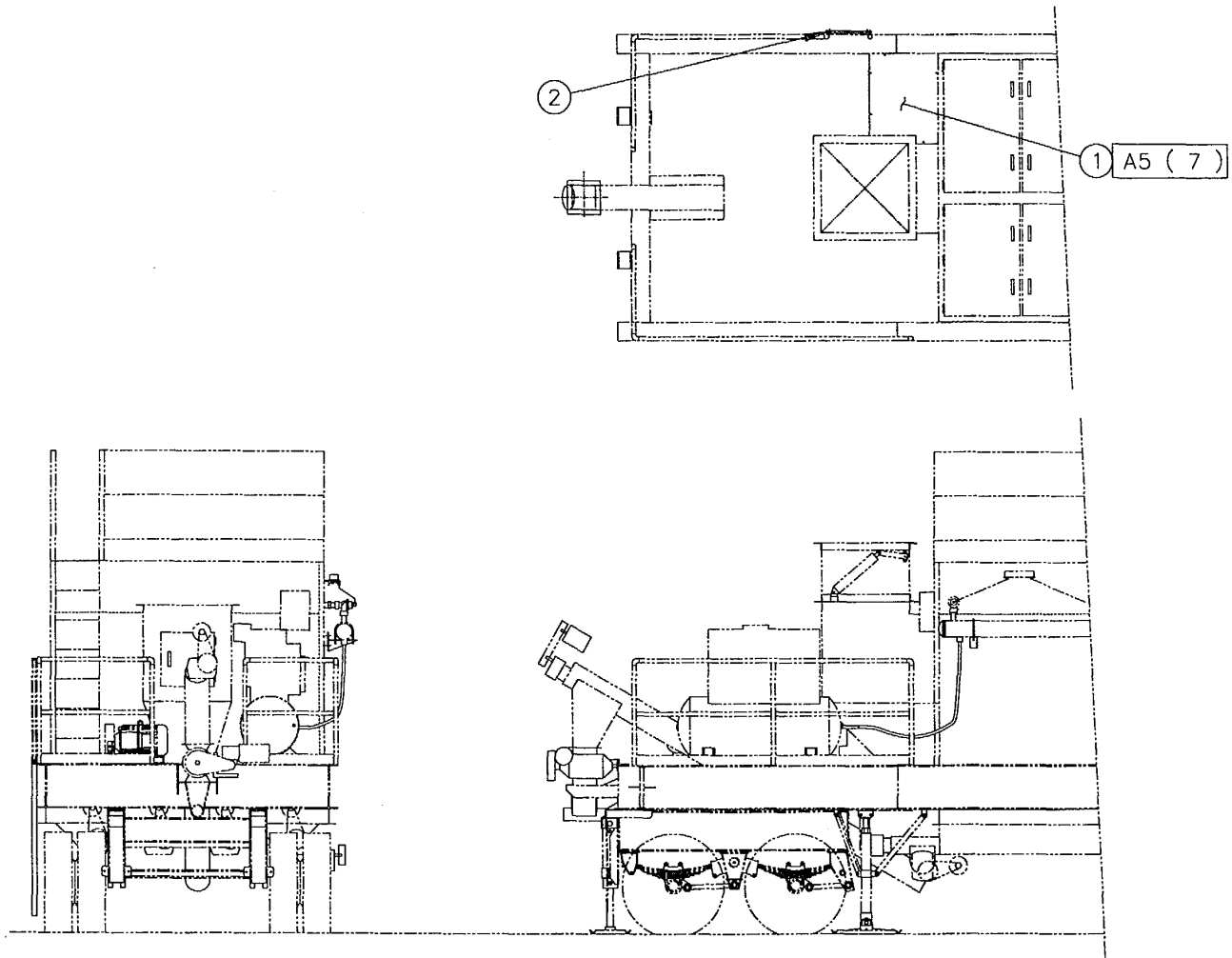
FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-09		PNEUMATIC SYSTEM	Fig 134	1
134-1	1	INGERSOL RAND	30760	120 GAL. AIR COMPRESSOR	Fig C19	1
134-3	1	E3 KM171	36232	15HP/1800/460V/3/60 TEFC ELECTIC MOTOR		1
134-4	1	51-451-38	3ABO3	PNEUMATIC PIPING	Fig 163	1
134-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUTS, LW, FW		4
134-B6	1	COMMERCIAL		BOLT 5/8" X 2" LG, NUTS, LW, FW		4



**Figure 134-Pneumatic System**

**FIGURE 135  
PLATFORM AND LADDER**

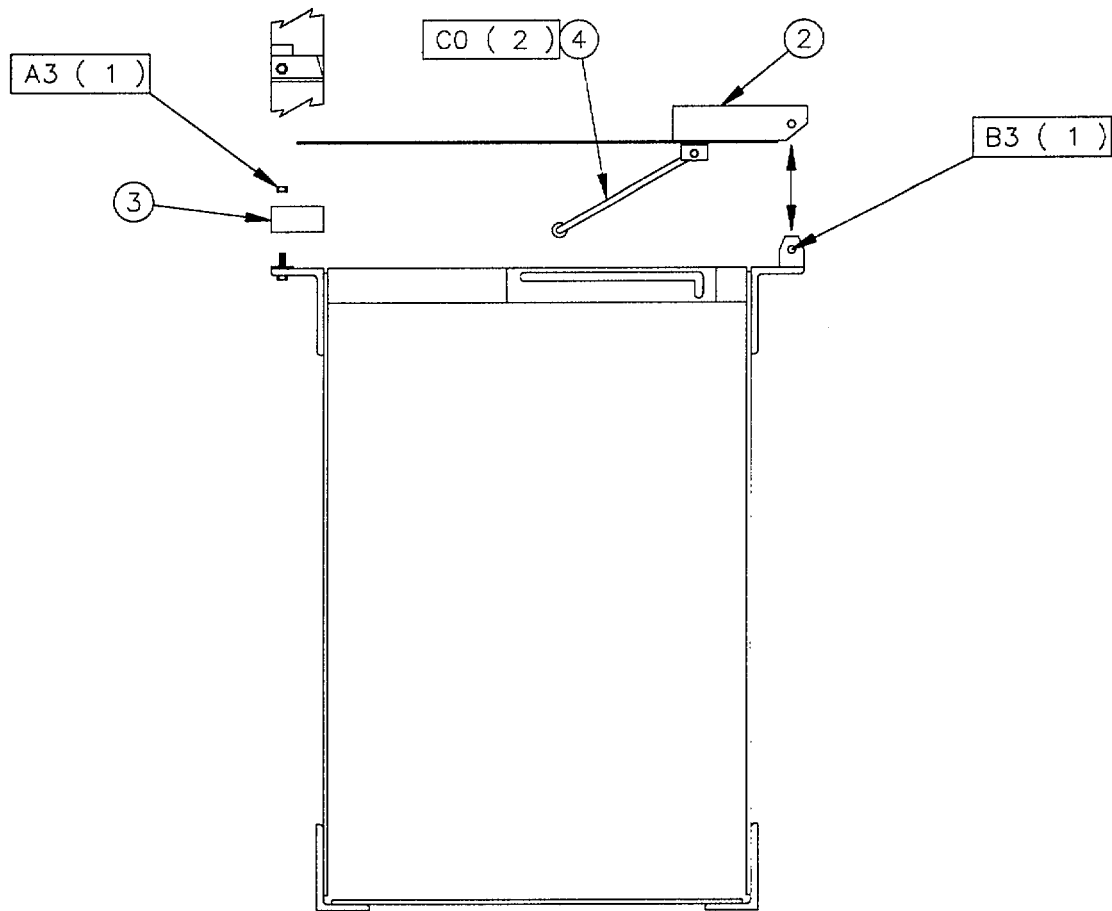
<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-36		PLATFORM AND LADDER	Fig 135	
135-1	1	51-100-16	3ABO3	REMOVABLE DECK		1
135-2	1	51-402-38	3ABO3	LADDER		1
135-A5	1	COMMERCIAL		BOLT 1/2" X 1" LG		7



**Figure 135-Platform and Ladder**

**FIGURE 136  
CONVEYOR TOP DOOR**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-11		CONVEYOR TOP DOOR	Fig 136	1
136-2	1	MP 52-400-03	3ABO3	TOP DOOR ASSEMBLY		10
136-3	1	MP X-211-172	3ABO3	TOP DOOR LATCH		20
136-4	1	MP X-211-387	3ABO3	PROP ROD ASSEMBLY		10
136-A3	1	COMMERCIAL		BOLT 3/8" X 1" LG, SL		20
136-B3	1	COMMERCIAL		BOLT 3/8" X 1 1/4" LG, SL		1
136-C0	1	COMMERCIAL		COTTER PIN 3/32" X 1" LG, 3/8" FW		20



**Figure 136 - Conveyor Top Door**



**FIGURE 137  
CHAIN OILER PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-38		CHAIN OILER PIPING	Fig 137	1
137-1	1	COMMERCIAL		PIPE NIPPLE 1/8" X 2 1/4" LG		1
137-2	1	COMMERCIAL		STREET ELBOW 1/8" X 90 DEG		1
137-3	1	COMMERCIAL		BUSHING ADAPTER 1/4"- 1/8" NPT		2
137-4	1	COMMERCIAL		NEEDLE VALVE 1/4"		1
137-5	1	COMMERCIAL		CLEAR HOSE 1/8" X 10" MALE - MALE		1
137-6	1	COMMERCIAL		ELBOW 1/8" X 90 DEG		1
137-7	1	COMMERCIAL		PIPE NIPPLE 1/8" X 1 1/2" LG		1
137-8	1	COMMERCIAL		PIPE COUPLING 1/8"		1
137-9	1	S2 10-909-01	3ABO3	CHAIN OILER		1
137-10	1	COMMERCIAL		PLUG 3/8" NPT		1

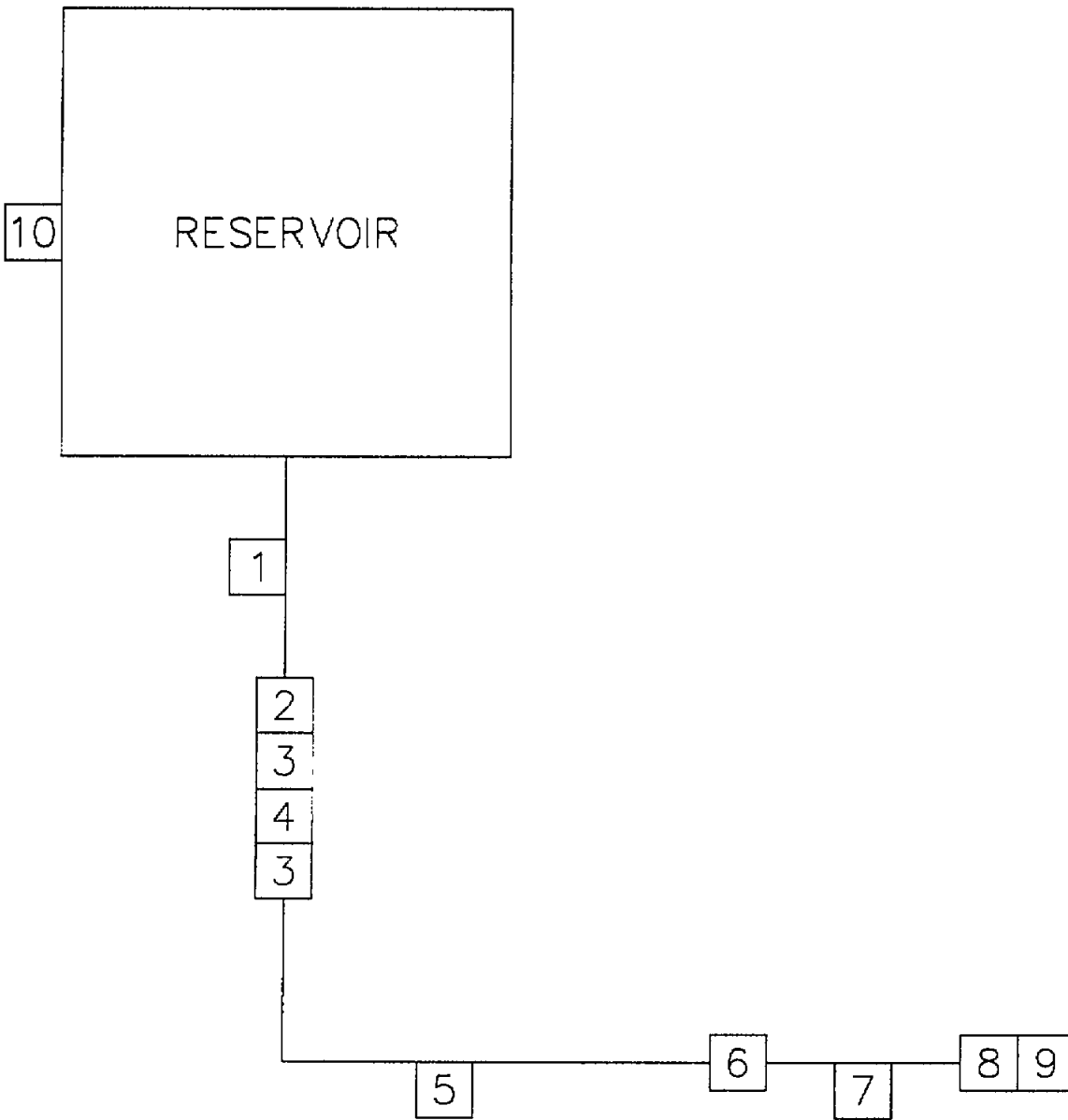


Figure 137 - Chain Oiler Piping

**FIGURE 138  
PNEUMATIC SYSTEM**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-37		PNEUMATIC SYSTEM	Fig 138	
138-1	1	COMMERCIAL		REDUCER BUSHING 2"-3/4"		1
138-2	1	COMMERCIAL		NIPPLE 3/4"		3
138-3	1	COMMERCIAL		STREET ELBOW 3/4" NPT X 90 DEG		1
138-4	1	COMMERCIAL		SHUT OFF VALVE		1
138-5	1	COMMERCIAL		UNION 3/4"		2
138-6	1	COMMERCIAL		NIPPLE 3/4"		5
138-7	1	H4 F30-06-000	98963	AIR FILTER (5 MICRON)		1
138-8	1	H4 L26-04-000	98963	AIR LUBRICATOR		1
138-9	1	COMMERCIAL		3/4" CROSS		1
138-10	1	COMMERCIAL		3/4" TEE		2
138-11	1	COMMERCIAL		REDUCER BUSHING 3/4"-3/8"		1
138-12	1	AB 836T-T254J	0CGS1	AIR PRESSURE SWITCH		1
138-13	1	COMMERCIAL		ELBOW 3/4" NPT X 90 DEG		9
138-14	1	COMMERCIAL		PIPE 3/4" NPT FEMALE BOTH ENDS		2
138-15	1	COMMERCIAL		REDUCER BUSHING 3/4"-1/2"		2
138-16	1	COMMERCIAL		ELBOW 1/2" NPT X 90 DEG		4
138-17	1	COMMERCIAL		1/2" STREET ELBOW		16
138-18	1	COMMERCIAL		1/2" TEE		4
138-19	1	COMMERCIAL		NIPPLE 1/2"		5
138-20	1	COMMERCIAL		PIPE 3/4" NPT FEMALE BOTH ENDS		1
138-21	1	H4 6511B-121-PM112 DA	97999	CONTROL VALVE 6511B-121-PM112DA		3
138-22	1	H4 MF 500BBC	2Y894	FLOW CONTROL VALVE		1
138-23	1	COMMERCIAL		3/4" HOSE- 3/4" MALE NPT BOTH ENDS		1
138-24	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
138-25	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-26	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-27	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-28	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-29	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-30	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-31	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT-3/4" NPT ENDS		1
138-32	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-33	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-34	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT-3/4" NPT ENDS		1
138-35	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT-3/4" NPT ENDS		1
138-36	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT-3/4" NPT ENDS		1
138-37	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT-3/4" NPT ENDS		1
138-38	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-39	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-40	1	COMMERCIAL		1/2" HOSE- 1/2" MALE NPT BOTH ENDS		1
138-41	1	COMMERCIAL		3/4" PIPE		1
138-42	1	COMMERCIAL		3/4" PIPE		1
138-43	1	COMMERCIAL		3/4" PIPE		1
138-44	1	COMMERCIAL		3/4" PIPE		1
138-45	1	COMMERCIAL		1/2" PIPE		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
138-46	1	COMMERCIAL		1/2" PIPE		1
138-47	1	COMMERCIAL		3/4" PIPE		1
138-48	1	COMMERCIAL		3/4" PIPE		1
138-49	1	COMMERCIAL		3/4" PIPE		1
138-50	1	COMMERCIAL		3/4" PIPE		1
138-51	1	COMMERCIAL		3/4" PIPE		1
138-52	1	H4 5X17-T-1	38846	AIR CYLINDER C/W C6 ROD CLEVIS	Fig C21	1
138-53	1	H4 5X12-T-1	38846	AIR CYLINDER C/W C6 ROD CLEVIS	Fig C21	2
138-54	1	H4 3X14-CB-1	38846	AIR CYLINDER C/W C4 ROD CLEVIS	Fig C21	2
138-55	1	H4 DC-7026	09990	PNEUMATIC QUICK DISCONNECT		1
138-56	1	COMMERCIAL		PLUG FOR PNEUMATIC QUICK DISC		1
138-57	1	COMMERCIAL		1/2" PIPE		1

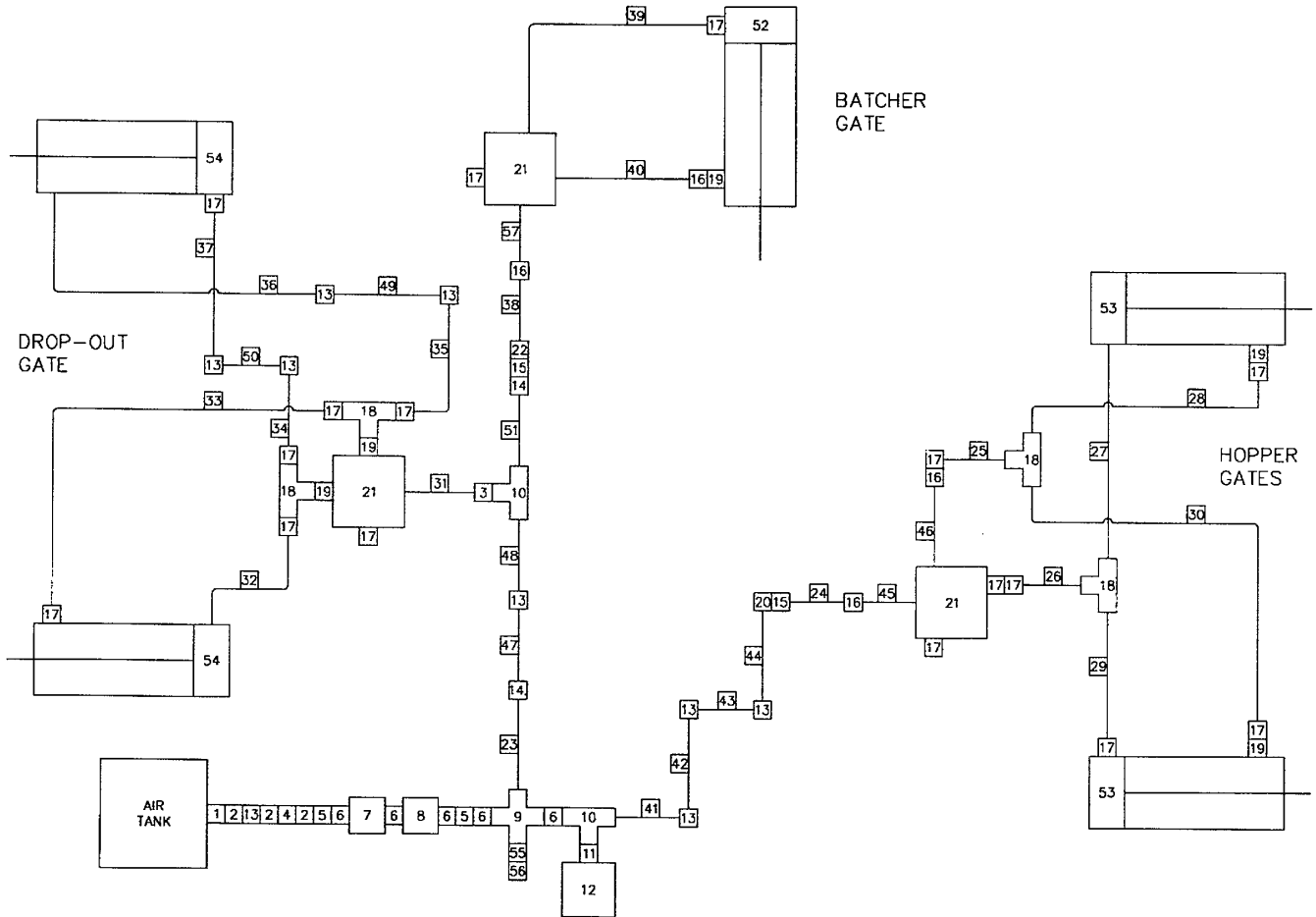


Figure 138 - Pneumatic System

**FIGURE 139  
DEDRUMMER/MELTER PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-61		DEDRUMMER/MELTER PIPING	Fig 139	
139-1	1	51-451-45	3AB03	FUEL PIPING	Fig 184	1
139-2	1	51-451-46	3AB03	FUEL SYSTEM MECHANICAL ASSY.	Fig 185	1
139-3	1	51-452-24	3AB03	DEDRUMMER/MELTER HEATING OIL PIPING	Fig 186	1
139-4	1	51-452-25	3AB03	OIL JACKETING LINES, DEDRUMMER/MELTER	Fig 187	1
139-5	1	51-452-26	3AB03	DEDRUMMER/MELTER ASPHALT TRANSFER PIPING	Fig 171	1
139-6	1	51-452-28	3AB03	FUEL OIL TRANSFER PIPING	Fig 123	1
139-7	1	51-452-20	3AB03	ASPHALT TRANSFER PIPING	Fig 182	1
139-8	1	51-452-21	3AB03	HOT OIL TRANSFER PIPING	Fig 155	1

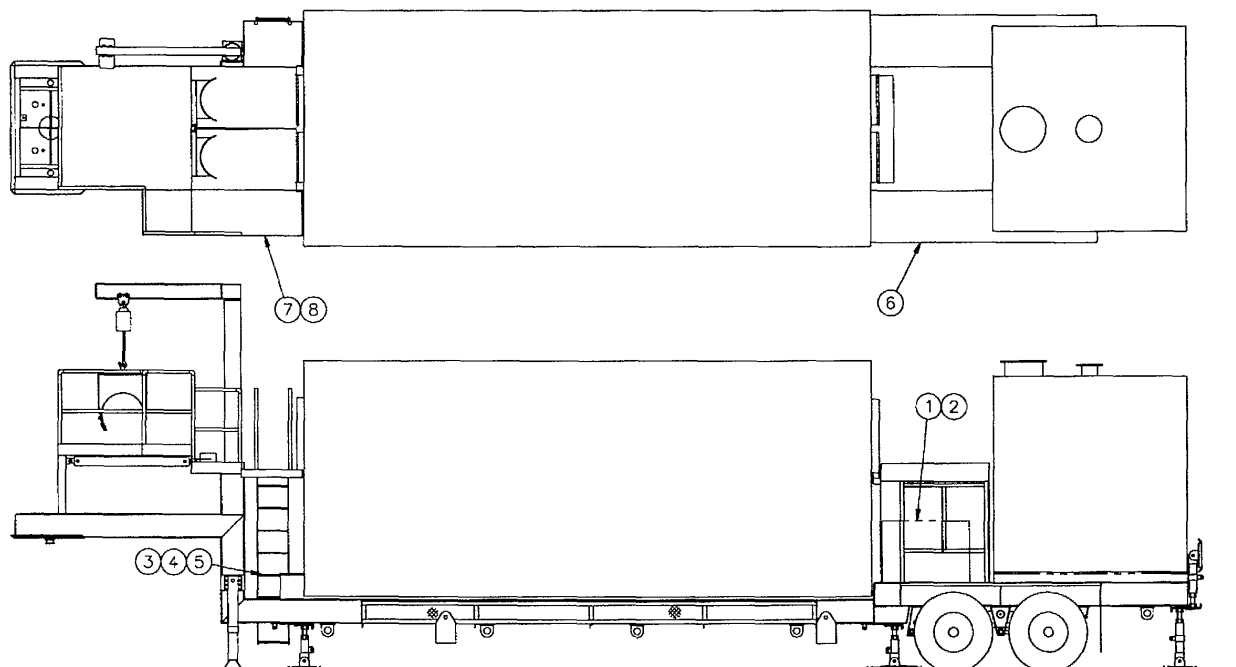
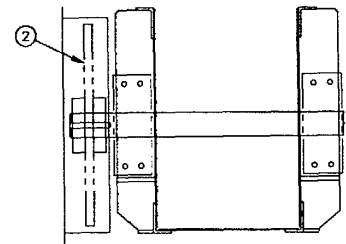
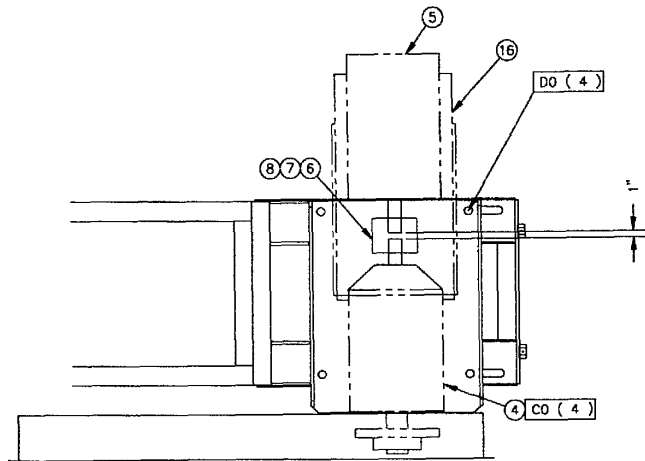


Figure 139 - Dedrummer/Melter Piping



**FIGURE 140  
SLAT CONVEYOR DRIVE ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-12		SLAT CONVEYOR DRIVE ASSEMBLY	Fig 140	1
140-1	1	S2 X-345-16	3ABO3	200B16 X 3 5/8" BORE SPROCKET		1
140-2	1	S2 X-345-17	3ABO3	200C40 X 3 15/16" BORE SPROCKET		1
140-3	1	COMMERCIAL		DRIVE CHAIN #200 X 64 PITCHES		1
140-4	1	D2 R133Z	0WXN6	EURODRIVE REDUCER	Fig C16	1
140-5	1	E3 KM238	36232	40HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
140-6	1	W3 10E	8D709	SURE FLEX SLEEVE		1
140-7	1	W3 10S X 2 1/8	8D709	SURE FLEX FLANGE		1
140-8	1	W3 10S X 2 1/8	8D709	SURE FLEX FLANGE		1
140-9	1	MP 52-400-07	3ABO3	TAKE UP ASSEMBLY		1
140-10	1	MP 52-400-08	3ABO3	TAKE UP ASSEMBLY		1
140-11	1	MP 52-450-13	3ABO3	TAKE UP ROD ASSEMBLY	Fig 129	2
140-12	1	MP 52-400-05	3ABO3	DRIVE UNIT BASE PLATE ASSY.		1
140-13	1	MP 52-400-06	3ABO3	SLAT CONVEYOR DRIVE MOUNT		1
140-14	1	MP 52-400-09	3ABO3	INSIDE DRIVE GUARD		1
140-15	1	MP 52-400-10	3ABO3	OUTSIDE DRIVE GUARD		1
140-16	1	52-400-86	3ABO3	REDUCER MOTOR SCOOP		1
140-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		13
140-B5	1	COMMERCIAL		BOLT 1/2" X 1" LG, NUT, LW, FW		4
140-C0	1	COMMERCIAL		BOLT 1 1/4" X 6" LG, NUT, LW		4
140-D0	1	COMMERCIAL		BOLT 1 1/4" X 4" LG, NUT, LW		4



SECTION A-A

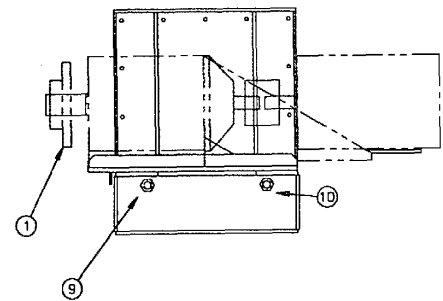
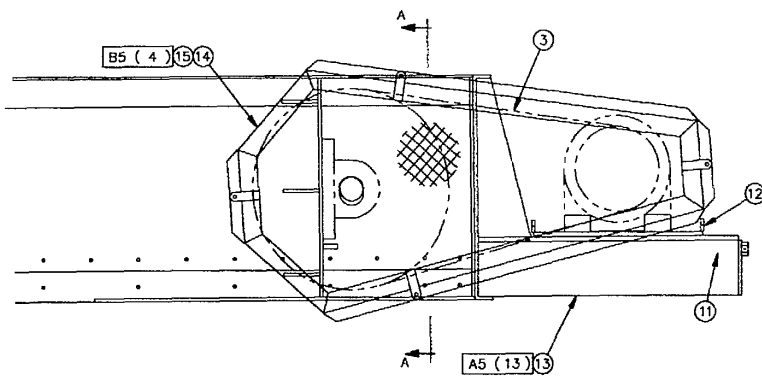


Figure 140 - Slat Conveyor Drive Assembly

**FIGURE 141  
LANDING JACK**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-27		LANDING JACK	Fig 141	1
141-2	1	C2 LG75-4A-113	74410	LANDING GEAR SET		1
141-A6	1	COMMERCIAL		BOLT 5/8" X 1 1/2" LG, NUT, LW		16
141-B6	1	COMMERCIAL		BOLT 5/8" X 1 1/2" LG, NUT, LW		4

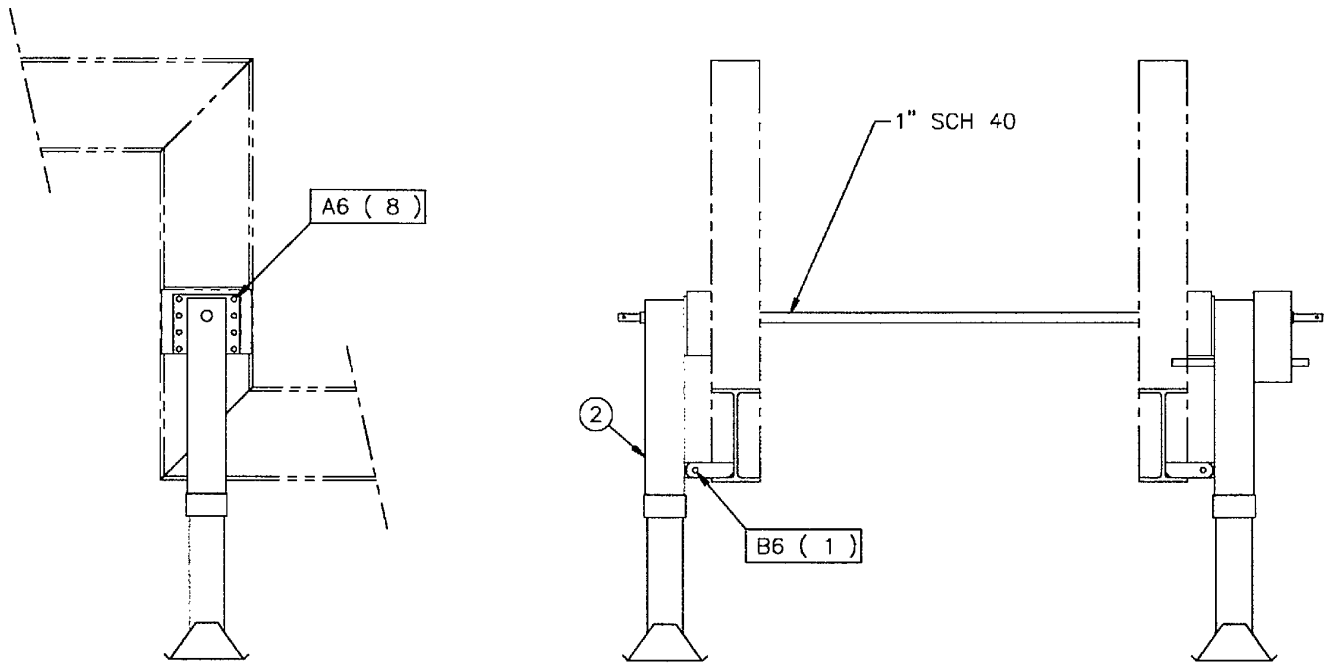


Figure 141 - Landing Jack

**FIGURE 142**  
**BIN LEVEL INDICATOR ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	52-450-34		BIN LEVEL INDICATOR ASSEMBLY	Fig 142	
142-1	1	E4 MODEL R TYPE	17724	ROTO-BIN-DICATOR		2
142-2	1	E4 H-38	17724	COUPLING		2
142-3	1	E4 H-372	17724	PADDLE		2

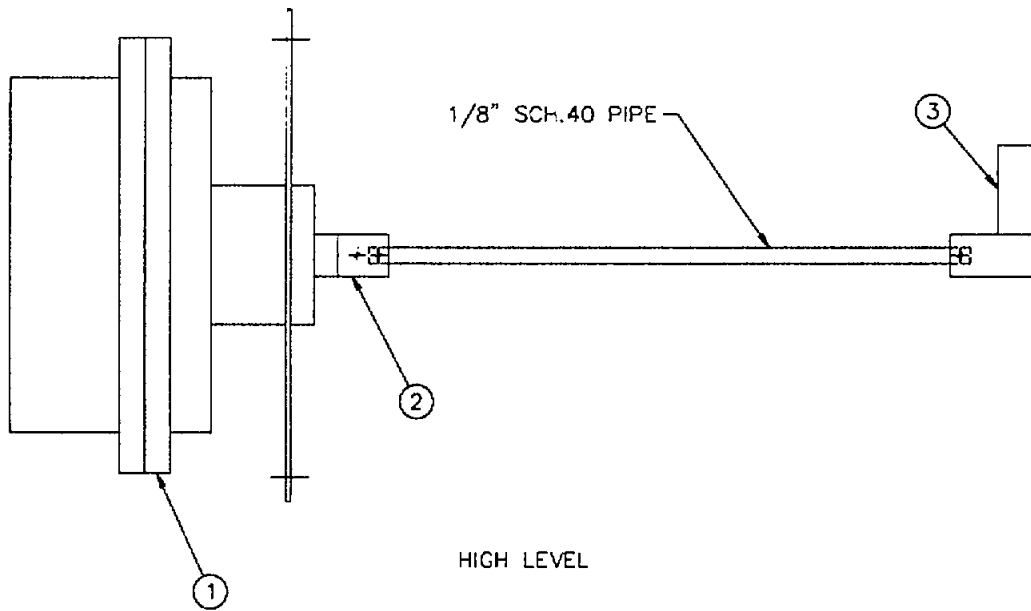
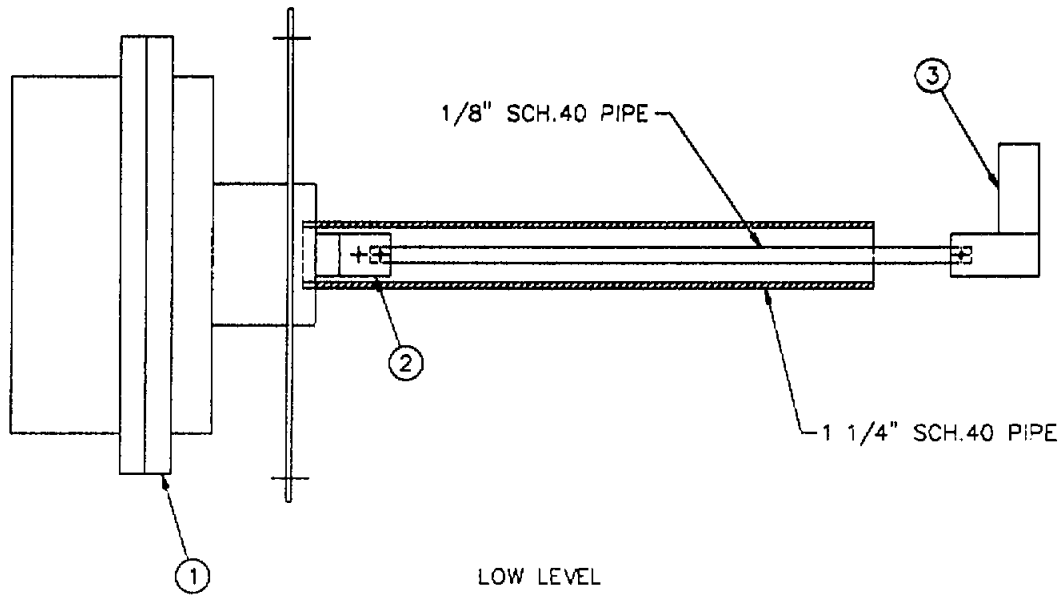


Figure 142 - Bin Level Indicator Assembly

**FIGURE 143  
EXHAUST INLET ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-37		EXHAUST INLET ASSEMBLY	Fig 143	
143-1	1	51-401-73	3ABO3	EXHAUST INLET HOUSING		1
143-2	1	51-401-74	3ABO3	EXHAUST SHUTTER		1
143-3	1	51-401-75	3ABO3	DAMPER ROD		1
143-4	1	H2 3X14-CB-1	38846	AIR CYLINDER C/W C4 ROD	Fig C21	1
143-5	1	B2 UCFL205-100D1	1C960	FLANGE BEARING		2
143-6	1	AP TC-100-A-J	0WXN8	HAUCK TEMPERATURE PROBE		1
143-7	1	AP JD-2	0WXN8	HAUCK FLOW SWITCH		1
143-8	1	51-926-02	3ABO3	GASKET		1
143-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		4
143-B0	1	COMMERCIAL		ROLL PIN 5/32" X 1 1/4" LG		4
143-C2	1	COMMERCIAL		BOLT 5/16" X 3/4" LG, LW		2

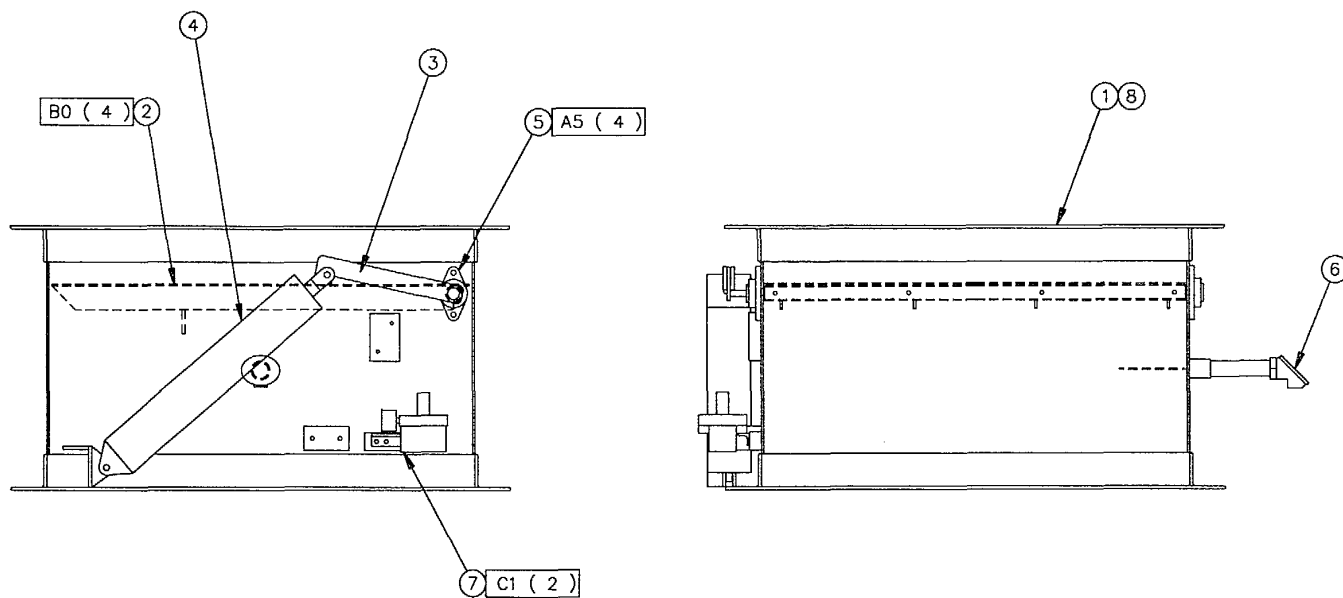


Figure 143 - Exhaust Inlet Assembly



**FIGURE 144**  
**AIR DUCT FLOW SWITCH**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-67		AIR DUCT FLOW SWITCH	Fig 144	
144-1	1	MP 51-401-80	3ABO3	DUCT ELBOW		1
144-2	1	AP 40-400-83	31934	FLOW SWITCH GASKET		1
144-3	1	AP 40-400-82	31934	FLOW SWITCH TUBE ASSEMBLY		1
144-A1	1	COMMERCIAL		SELF THREADING BOLT 1/4" X 1"		4

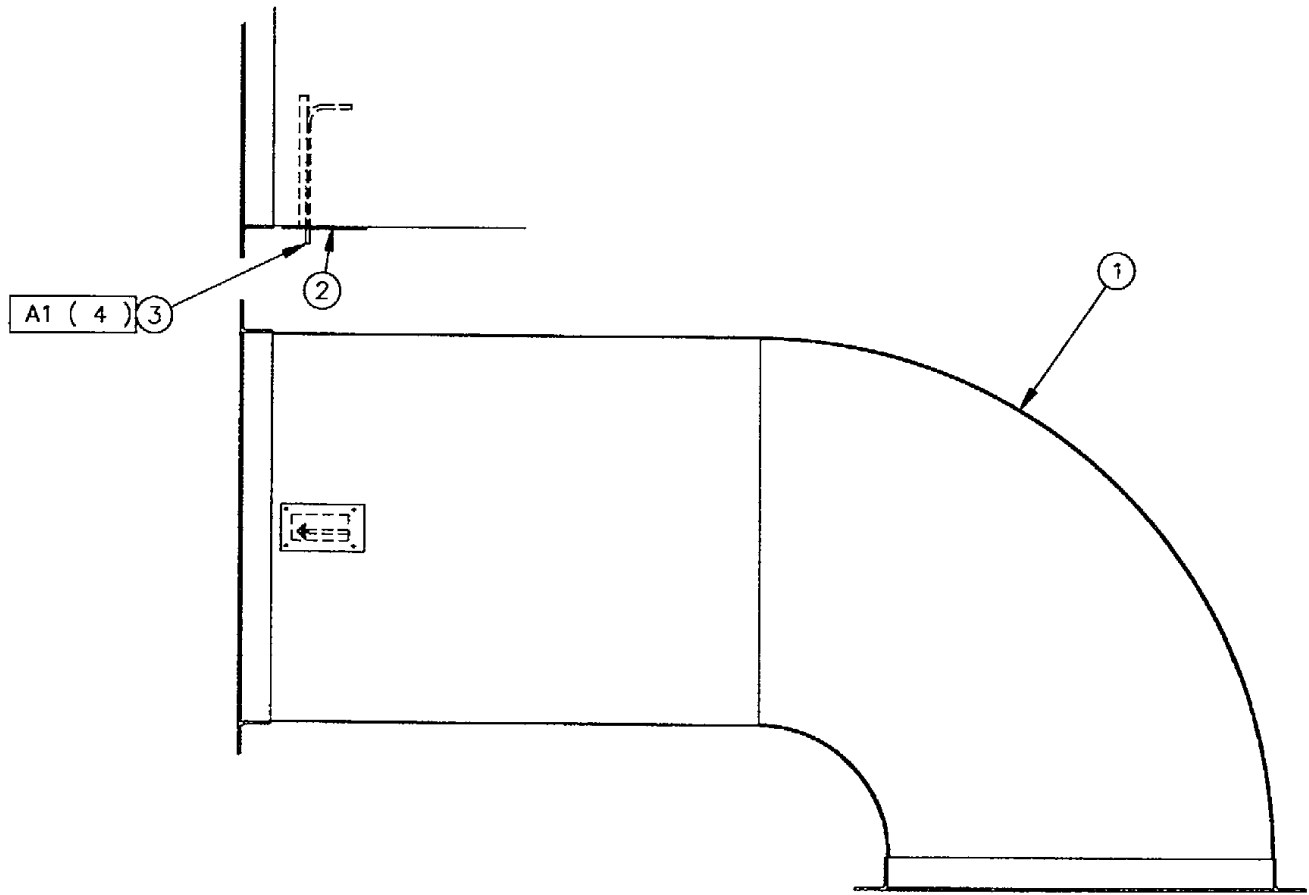


Figure 144 - Air Duct Flow Switch

**FIGURE, 145  
SLAT CONVEYOR BOLTED ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-08		SLAT CONVEYOR BOLTED ASSEMBLY	Fig 145	1
145-1	1	52-450-14	3ABO3	BATCHER CLAM GATE ASSEMBLY	Fig 166	1
145-3	1	52-450-10	3ABO3	SLAT CONVEYOR IDLER ASSEMBLY	Fig 203	10
145-4	1	52-450-11	3ABO3	CONVEYOR TOP DOOR	Fig 136	1
145-5	1	52-450-12	3ABO3	SLAT CONVEYOR DRIVE ASSEMBLY	Fig 140	1
145-6	1	MP 52-400-02	3ABO3	24" CONVEYOR SLAT		88
145-7	1	MP 52-410-01	3ABO3	IDLER SHAFT		5
145-8	1	MP 52-410-02	3ABO3	DRIVE SHAFT		1
145-9	1	MP 52-410-03	3ABO3	TAIL SHAFT		1
145-10	1	52-450-21	3ABO3	BEARING GREASE LINES	Fig 73	1
145-11	1	MP 52-400-38	3ABO3	TAIL SHAFT BEARING PLATE ASSEMBLY		2
145-12	1	MP 52-400-39	3ABO3	FLOOR WEAR PLATE		1
145-13	1	MP 52-101-03	3ABO3	FLOOR WEAR PLATE		1
145-14	1	MP 52-101-04	3ABO3	FLOOR WEAR PLATE		2
145-15	1	MP X-345-18	3ABO3	SIDE WEAR PLATE		6
145-16	1	MP X-345-19	3ABO3	SIDE WEAR PLATE		2
145-17	1	MP X-313-23	3ABO3	TAKE UP ROD		2
145-18	1	MP X-313-22	3ABO3	BEARING PLATE SLIDE MEMBER		4
145-19	1	S2 X-142-325	3ABO3	SPROCKET 3 15/16" BORE		2
145-20	1	S2 X-211-198	3ABO3	SPROCKET 3 7/16" BORE		2
145-21	1	B2 SAFD X 22522 3 15/16	52676	PILLOW BLOCK BEARING FLOATING 4 BOLT		1
145-22	1	B2 SAFD X 22522 3 15/16	52676	PILLOW BLOCK BEARING FIXED 4 BOLT		1
145-23	1	B2 023114	71956	TYPE E FIXED FLANGE MOUNT BEARING		1
145-24	1	B2 023114	71956	TYPE E FIXED FLANGE MOUNT BEARING		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
145-25	1	B2 AELF210-115T	1C960	FLANGE BEARING		10
145-26	1	S2 X-211-576	3ABO3	SLAT CHAIN 4" PITCH X 264 PITCH		2
145-27	1	H3 10-621-13	59254	1 1/4" ACME NUT		8
145-28	1	52-400-53	3ABO3	PLATFORM		1
145-29	1	MP 52-400-58	3ABO3	PIN		2
145-30	1	MP 52-400-46	3ABO3	REMOVABLE HAND RAILING		2
145-31	1	MP 52-400-47	3ABO3	REMOVABLE HAND RAILING		1
145-32	1	MP 52-400-48	3ABO3	SWINGING STAIR ASSEMBLY		1
145-33	1	MP 52-400-49	3ABO3	SWINGING STAIR ASSEMBLY		1
145-34	1	MP 52-400-50	3ABO3	SWINGING STAIR ASSEMBLY		1
145-35	1	52-450-25	3ABO3	DROP OUT GATE	Fig 146	1
145-36	1	MP 52-400-82	3ABO3	INLET GRATE		1
145-37	1	MP 52-400-81	3ABO3	REAR DOOR PANEL		1
145-38	1	MP 52-101-44	3ABO3	SLAT CONVEYOR BACK PANEL		1
145-39	1	MP X-211-533	3ABO3	CONVEYOR REAR GATE PIN		2
145-40	1	MP X-211-179	3ABO3	DOOR LATCH ASSEMBLY		1
145-41	1	MP X-211-180	3ABO3	DOOR LATCH ASSEMBLY		1
145-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		24
145-B5	1	COMMERCIAL		BOLT 1/2" X 1" LG, NUT, LW, FW		13
145-C3	1	COMMERCIAL		BOLT 3/8" X 1 1/4" LG, NUT		1056
145-D0	1	COMMERCIAL		COUNTER SUNK BOLT 3/8" X 1 1/2" LG, NUT, LW		145
145-E0	1	COMMERCIAL		COUNTER SUNK BOLT 3/8" X 2" LG, NUT, LW		79
145-F6	1	COMMERCIAL		BOLT 5/8" X 1" LG, LW		36
145-G0	1	COMMERCIAL		CARRIAGE BOLT 1/2" X 2" LG, LW, FW		40
145-H7	1	COMMERCIAL		BOLT 3/4" X 4" LG, NUT, LW, FW		8
145-J0	1	COMMERCIAL		PLOW BOLT 3/4" X 4" LG, NUT, LW, FW		8
145-K5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, LW		2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
145-L0	1	COMMERCIAL		COTTER PIN 1/4" X 1 1/4" LG		6
145-M5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW		2
145-N5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT		8
145-P0	1	COMMERCIAL		COTTER PIN 1/8" X 1 1/2" LG		4
145-Q5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT		2

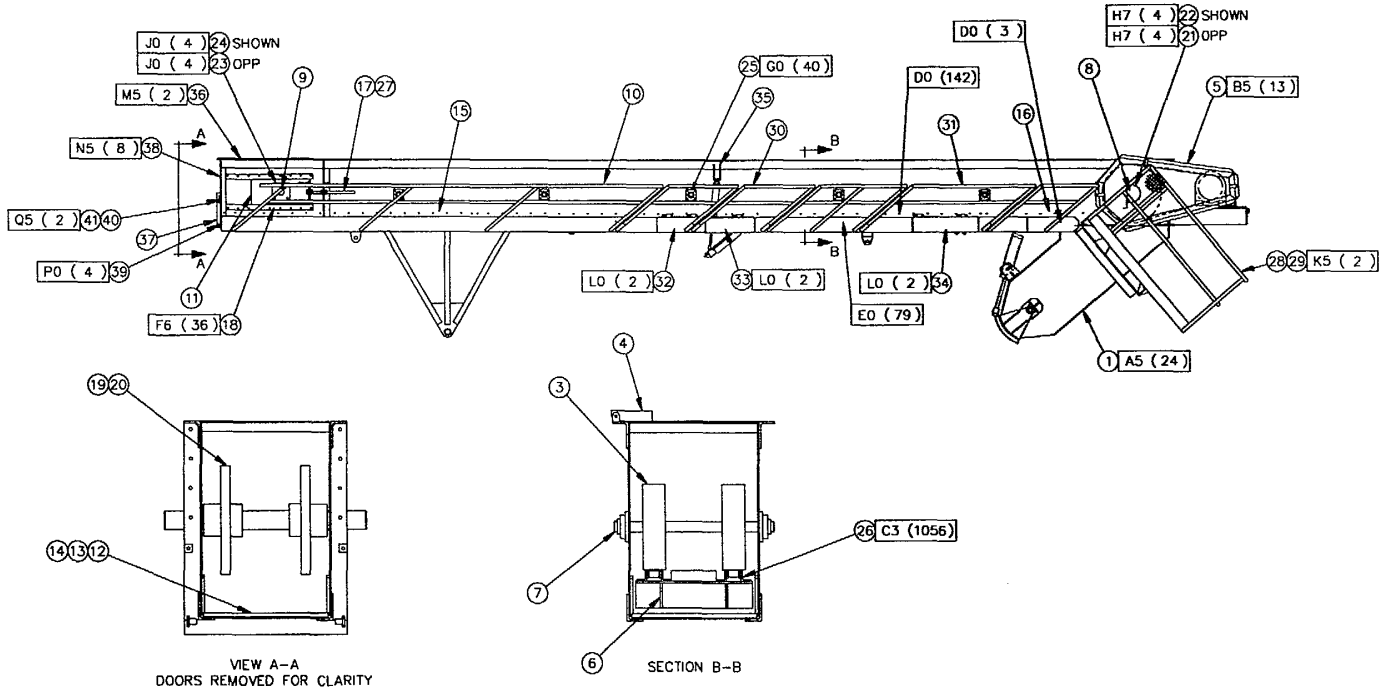


Figure 145 - Slat Conveyor Bolted Assembly

**FIGURE 146  
DROP OUT GATE**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
145-L0	1	COMMERCIAL		COTTER PIN 1/4" X 1 1/4" LG		6
145-M5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW		2
145-N5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT		8
145-P0	1	COMMERCIAL		COTTER PIN 1/8" X 1 1/2" LG		4
145-Q5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT		2

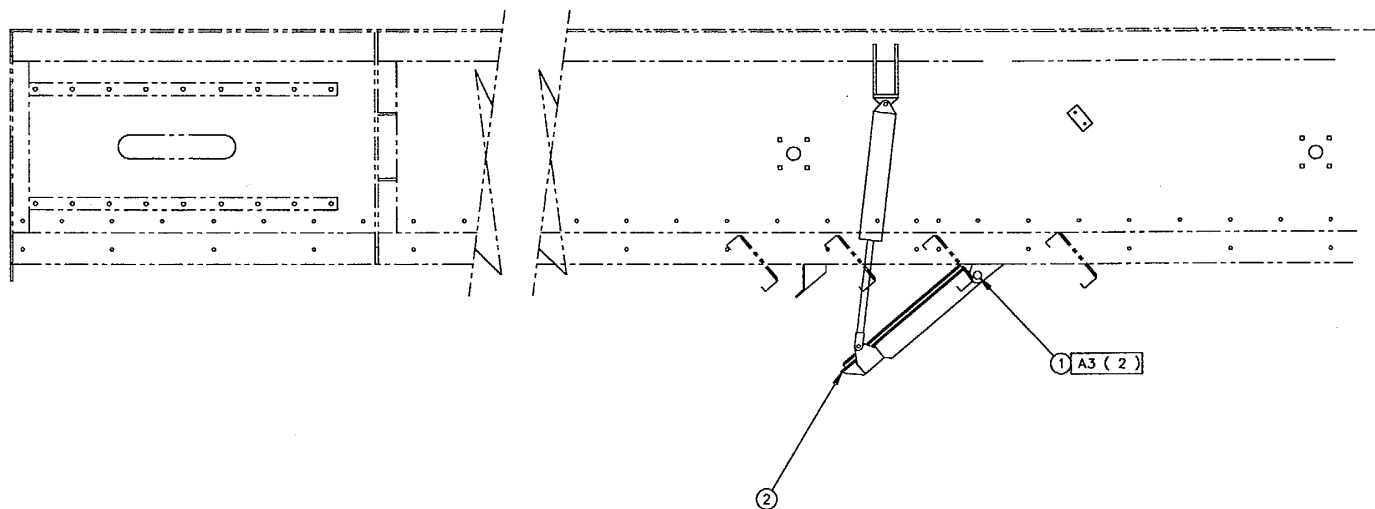


Figure 146 - Drop out Gate



**FIGURE 147  
CHAIN OILER ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	40-450-30		CHAIN OILER ASSEMBLY	Fig 147	
147-1	1	COMMERCIAL		3/4" BREATHER CAP		1
147-3	1	40-450-38	3ABO3	CHAIN OILER PIPING	Fig 137	1
147-5	1	40-100-02	3ABO3	BRUSH MOUNT		1
147-A0	1	COMMERCIAL		PIPE CLAMP 1/4"		1
147-B1	1	COMMERCIAL		BOLT 1/4" X 1" LG, NUT, LW, FW		2

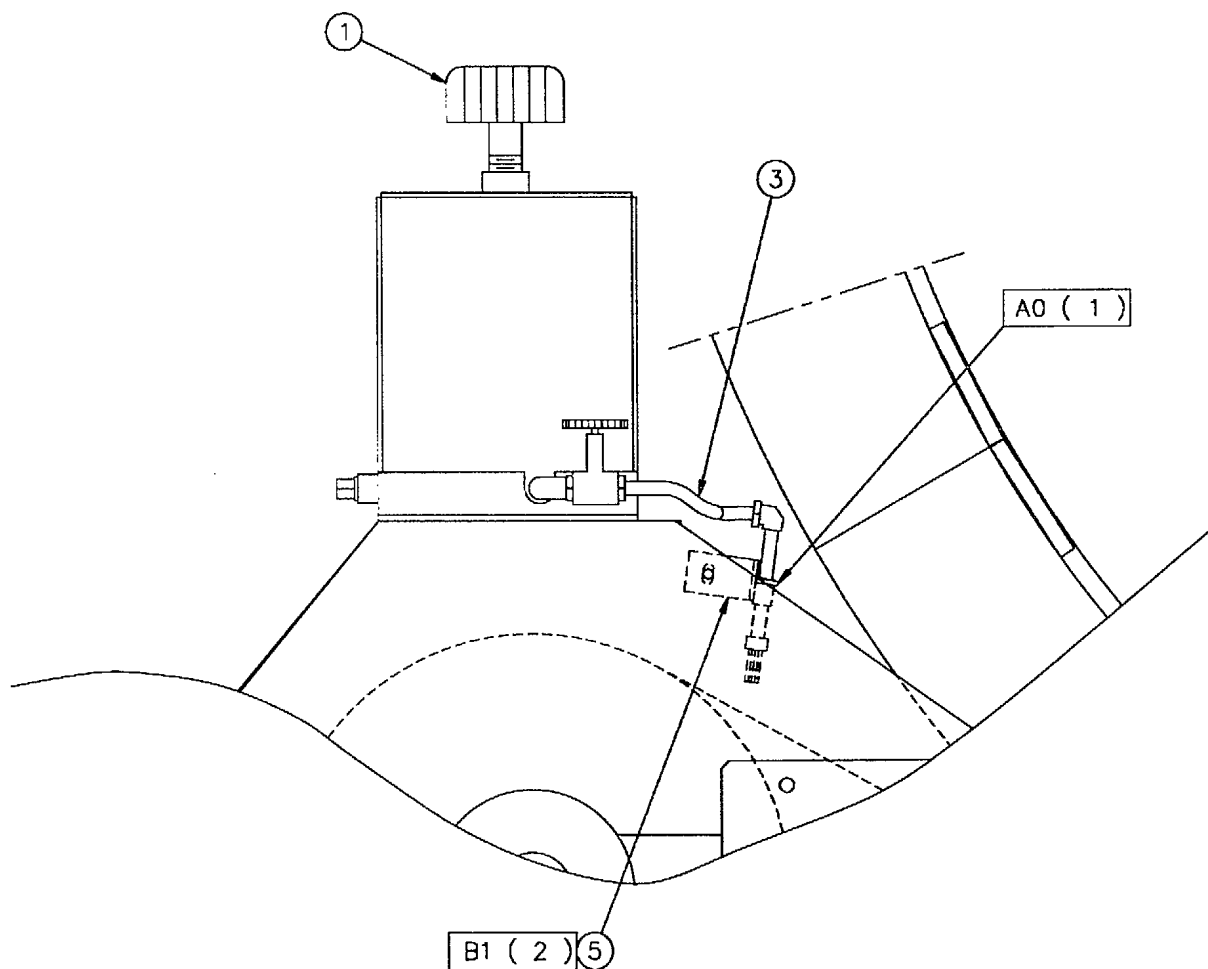


Figure 147 - Chain Oiler Assembly

**FIGURE 148  
BURNER ACCESSORIES**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	40-450-26	3ABO3	BURNER ACCESSORIES	Fig 148	1
148-1	1	AP TC-100-A-J	31934	TEMPERATURE PROBE	Fig C1	1
148-2	1	AP 19298	31934	PRESSURE TRANSMITTER	Fig C1	1
148-A3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW.		4

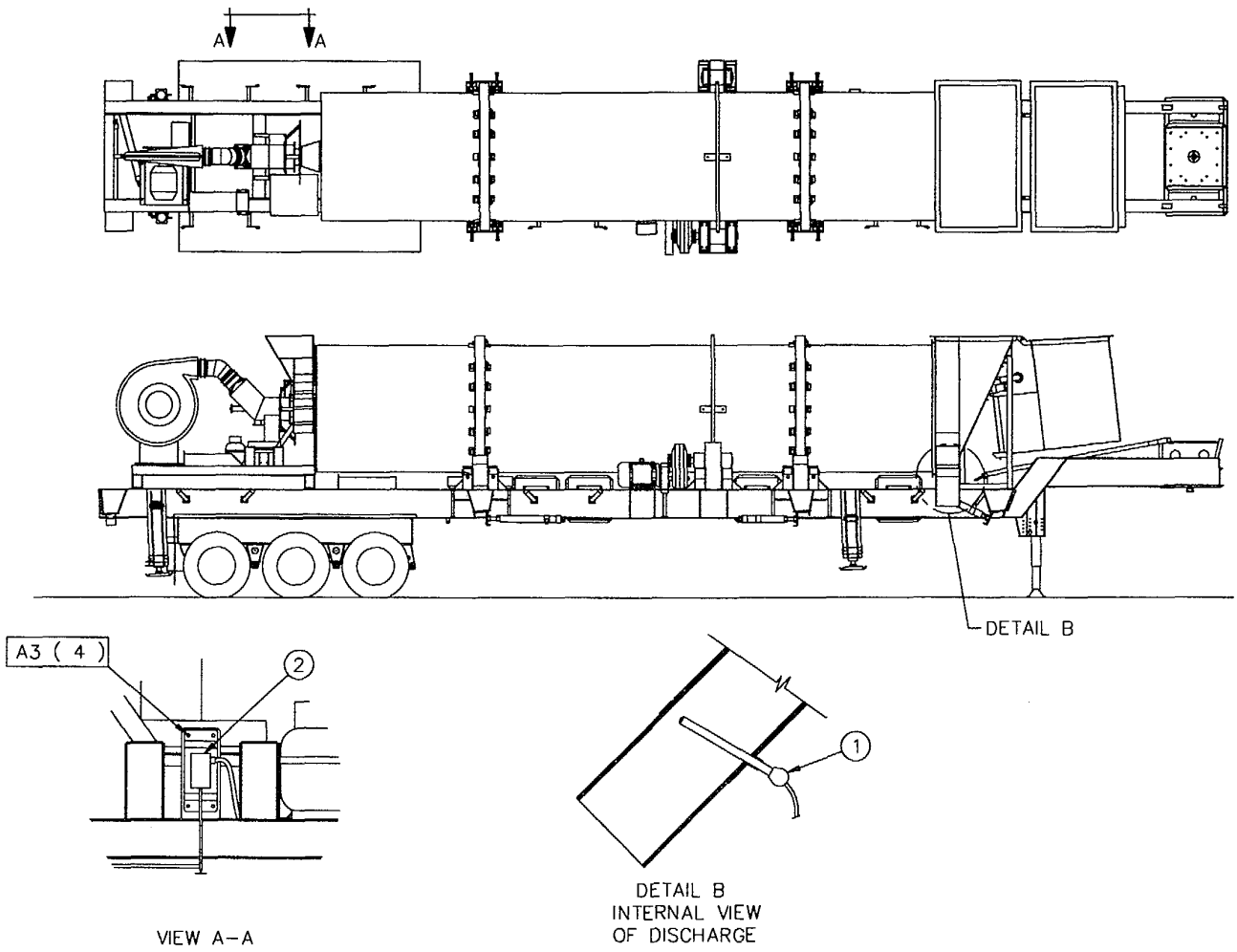


Figure 148 - Burner Accessories

**FIGURE- 149**  
**HYDRAULIC CYLINDER 4" BORE X 24" STROKE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	03-950-19		HYDRAULIC CYLINDER 4" BORE X 24" STROKE	Fig 149	
149-1	1	H2 90-400-69	3ABO3	CYLINDER		1
149-2	1	H2 90-400-51	3ABO3	CYLINDER ROD ASSEMBLY		1
149-3	1	H2 90-420-01	3ABO3	CYLINDER HEAD		1
149-4	1	H2 90-420-03	3ABO3	PISTON		1
149-5	1	COMMERCIAL		LOCK NUT 1" UNF		1
149-6	1	H2 10-951-01	3ABO3	SEAL KIT 4" BORE X 2" SHAFT		1

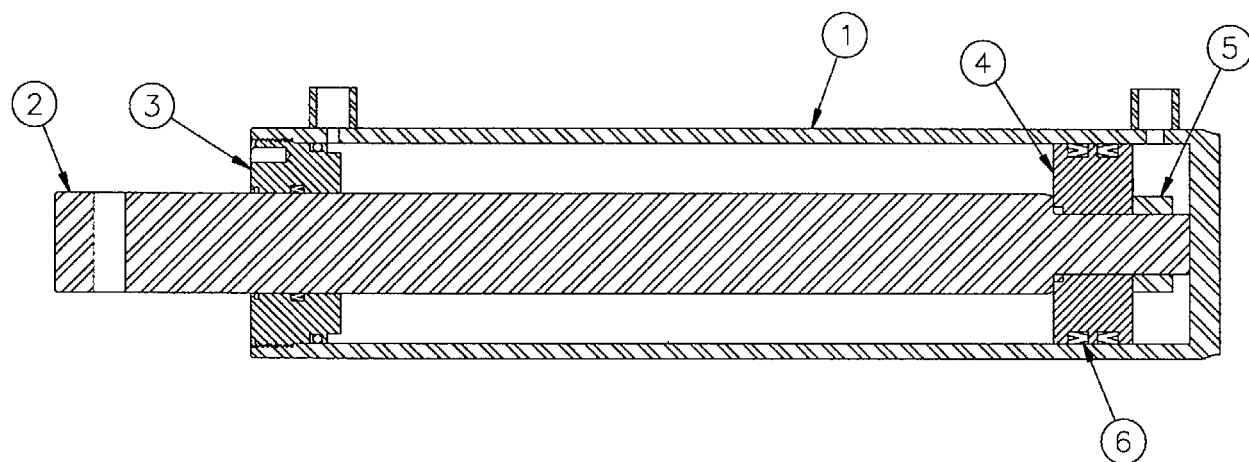


Figure 149 - Hydraulic Cylinder 4' Bore X 24' Stroke

**FIGURE 150  
HYDRAULIC CYLINDER 4" BORE X 48" STROKE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	03-950-03		HYDRAULIC CYLINDER 4" BORE X 48" STROKE	Fig 150	
150-1	1	H2 90-400-15	3ABO3	CYLINDER TUBE		1
150-2	1	H2 90-410-04	3ABO3	CYLINDER ROD		1
150-3	1	H2 90-420-01	3ABO3	CYLINDER HEAD		1
150-4	1	H2 90-420-03	3ABO3	PISTON		1
150-5	1	COMMERCIAL		LOCK NUT 1" UNF		1
150-6	1	H2 10-951-01	3ABO3	SEAL KIT 4" BORE X 2" SHAFT		1

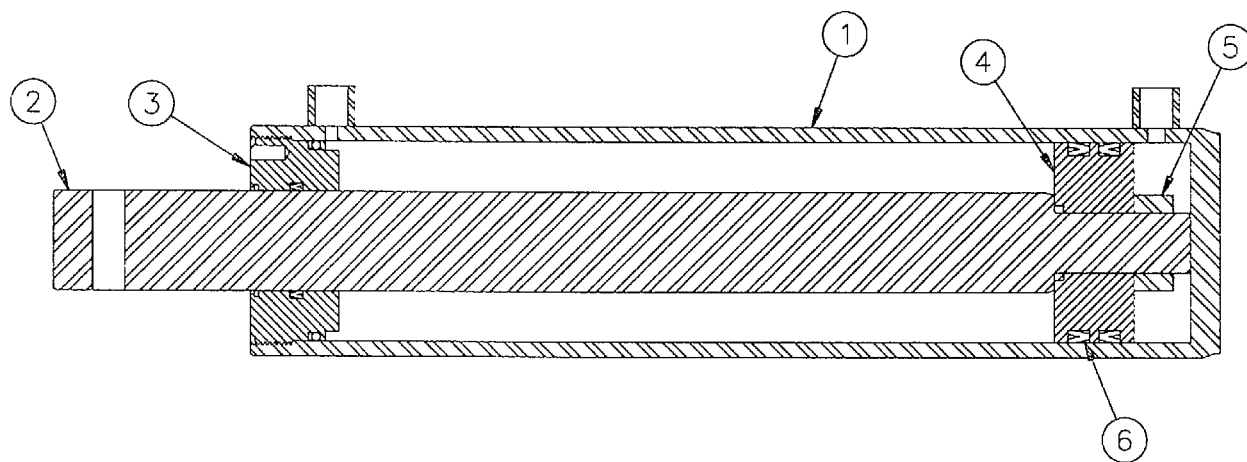


Figure 150-Hydraulic Cylinder 4" Bore X 48" Stroke



**FIGURE 151  
HYDRAULIC CYLINDER 4" BORE X 12" STROKE**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	03-950-18		HYDRAULIC CYLINDER 4" BORE X 12" STROKE	Fig 151	
151-1	1	H2 90-400-67	3ABO3	CYLINDER		1
151-2	1	H2 90-400-68	3ABO3	CYLINDER ROD ASSEMBLY		1
151-3	1	H2 90-420-01	3ABO3	CYLINDER HEAD		1
151-4	1	H2 90-420-03	3ABO3	PISTON		1
151-5	1	COMMERCIAL		LOCK NUT 1" UNF		1
151-6	1	H2 10-951-01	3ABO3	SEAL KIT 4" BORE X 2" SHAFT		1

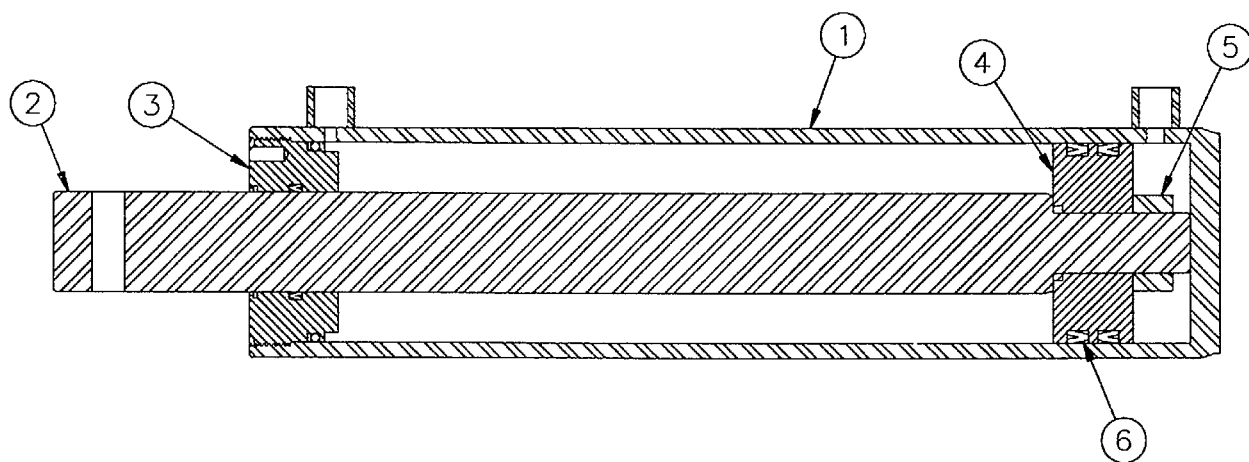


Figure 151-Hydraulic Cylinder 4" Bore X 12" Stroke

**FIGURE 152  
HYDRAULIC CYLINDER 5" BORE X 18" STROKE**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	03-950-20		HYDRAULIC CYLINDER 5" BORE X 18" STROKE	Fig 152	
152-1	1	H2 90-400-70	3ABO3	CYLINDER		1
152-2	1	H2 90-410-11	3ABO3	CYLINDER ROD		1
152-3	1	H2 90-420-09	3ABO3	CYLINDER HEAD		1
152-4	1	H2 90-420-10	3ABO3	PISTON		1
152-5	1	COMMERCIAL		LOCK NUT 1 1/2" UNF		1
152-6	1	10-951-04	3ABO3	SEAL KIT 5" BORE X 2 1/2" SHAFT		1

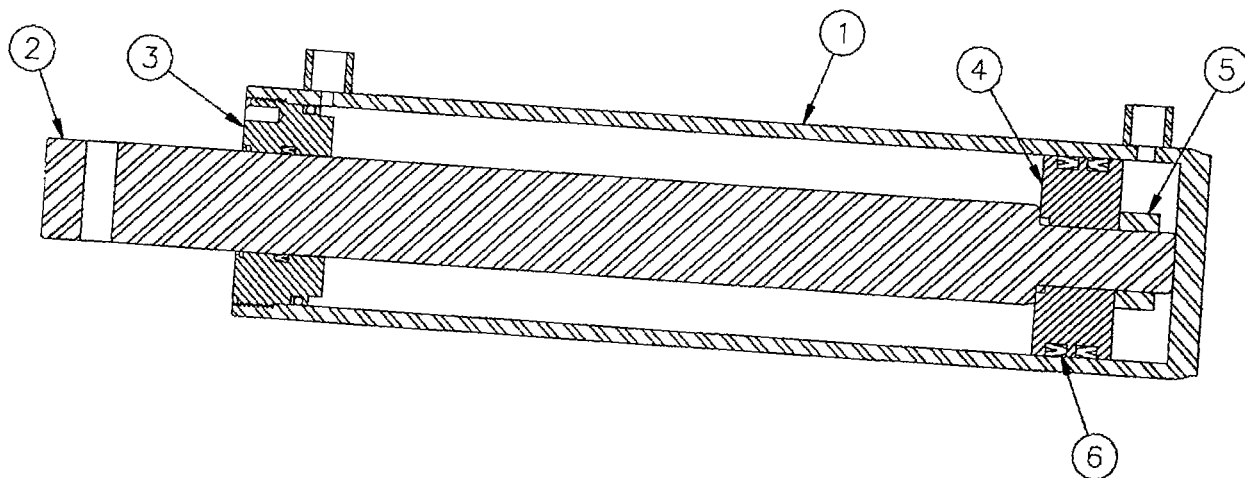


Figure 152-Hydraulic Cylinder 5" Bore X 18" Stroke

**FIGURE 153  
FUEL OIL PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-41		FUEL OIL PIPING	Fig 153	
153-1	1	COMMERCIAL		STREET ELBOW 3/4" NPT X 90 DEG		1
153-2	1	COMMERCIAL		CLOSE NIPPLE 3/4" NPT		1
153-3	1	COMMERCIAL		BELL REDUCER 1 1/4" - 3/4" NPT		1
153-4	1	COMMERCIAL		PIPE 1 1/4" X 44 1/2" LG		1
153-5	1	COMMERCIAL		ELBOW 1 1/4" NPT X 90 DEG		6
153-6	1	COMMERCIAL		PIPE 1 1/4" NPT X 181 3/4" LG		1
153-7	1	COMMERCIAL		PIPE COUPLING 1 1/4" NPT		1
153-8	1	COMMERCIAL		PIPE 1 1/4" NPT X 4 1/4" LG		1
153-9	1	COMMERCIAL		PIPE 1 1/4" NPT X 144" LG		1
153-10	1	COMMERCIAL		PIPE 1 1/4" NPT X 151 1/2" LG		1
153-11	1	COMMERCIAL		CLOSE NIPPLE 1 1/4" X 1" LG NPT		1
153-12	1	COMMERCIAL		PIPE 1 1/4" X 4 1/2" LG NPT		1
153-13	1	COMMERCIAL		COUPLING CAP 1 1/4" NPT		1
153-14	1	COMMERCIAL		GATE VALVE 1 1/4" NPT		1
153-15	1	COMMERCIAL		COUPLING 1 1/4" NPT X 1 1/4" JIC MALE		1

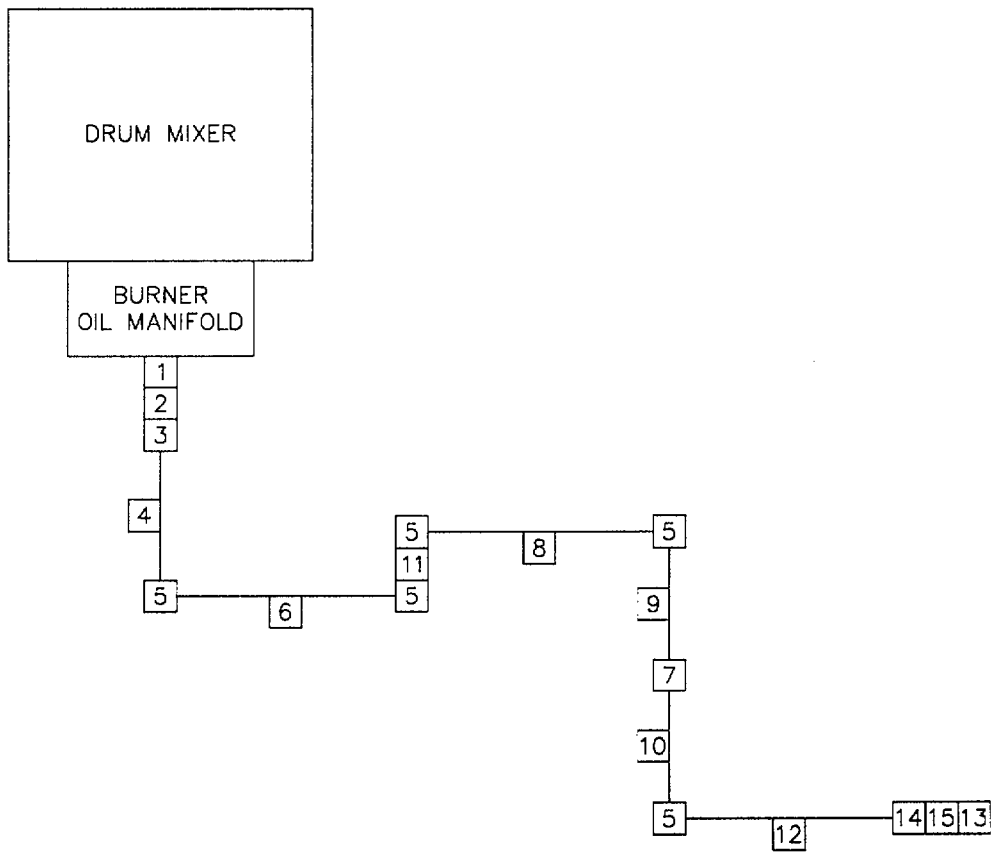
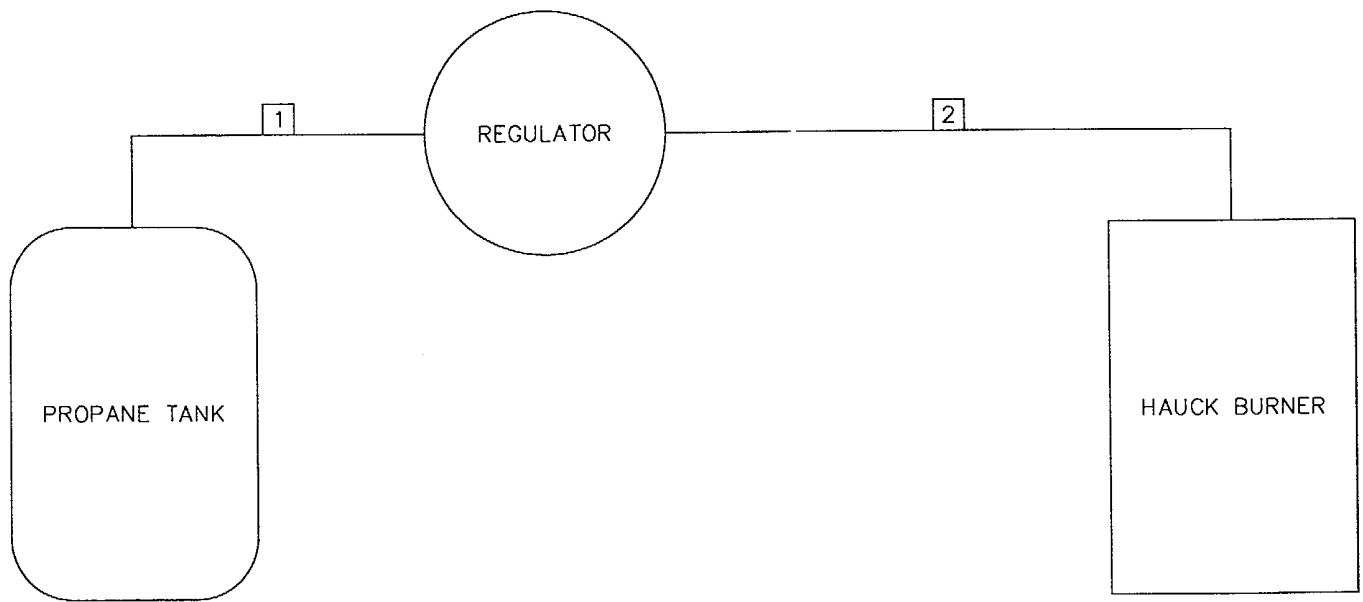


Figure 153-Fuel Oil Piping

**FIGURE 154  
PILOT LIGHT PIPING**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	40-450-42		PILOT LIGHT PIPING	Fig 154	
154-1	1	COMMERCIAL		1/4" PROPANE TOOL HOSE C/W POL FITTINGS BOTH ENDS, 18" O.A. LG		1
154-2	1	COMMERCIAL		3/8" TYPE I PROPANE RUBBER HOSE C/W #6 FLARE, 3/8" MALE PIPE FERRULE X 48" O.A. LG		1



*Figure 154-Pilot Light Piping*



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-21		HOT OIL TRANSFER PIPING	Fig 155	
155-1	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 2" ENDS 2" FLANGE X 36" LG		2
155-2	1	MP 51-100-12	3ABO3	FLANGE CAP 2"		4
155-3	1	MP 51-926-06	3ABO3	GASKET KIT		1

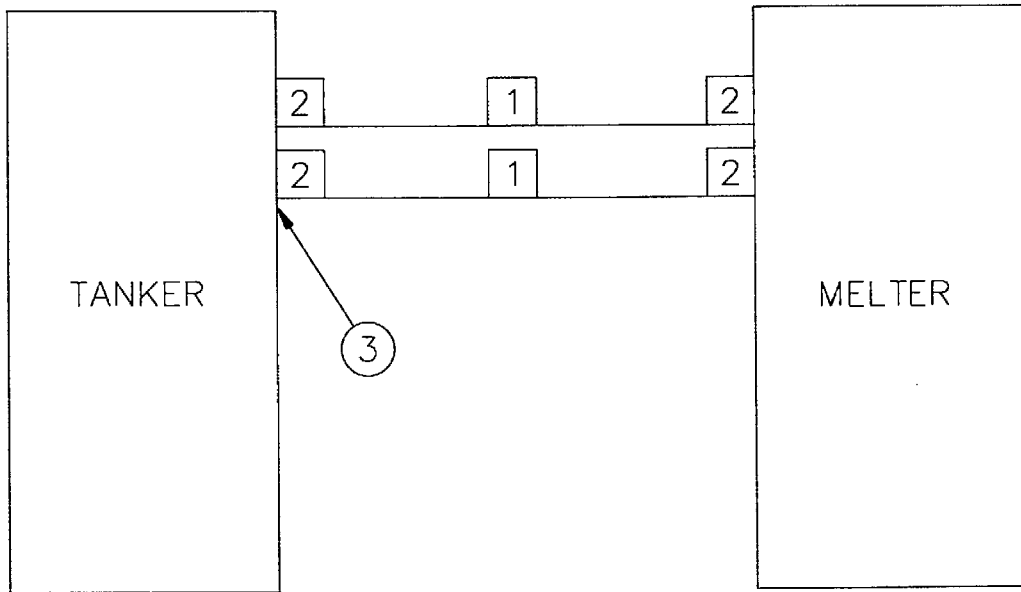


Figure 155-Hot Oil Transfer Piping

**FIGURE 156  
HOT OIL PIPING ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-51		HOT OIL PIPING ASSEMBLY	Fig 156	
156-1	1	51-451-55	3ABO3	OIL JACKETING LINES, ASPHALT TANKER PUMP	Fig 168	1
156-2	1	51-451-56	3ABO3	ASPHALT TANKER HEATING OIL	Fig 169	1
156-3	1	51-452-22	3ABO3	OIL JACKETING LINES, ASPHALT METERING PUMP	Fig 177	1

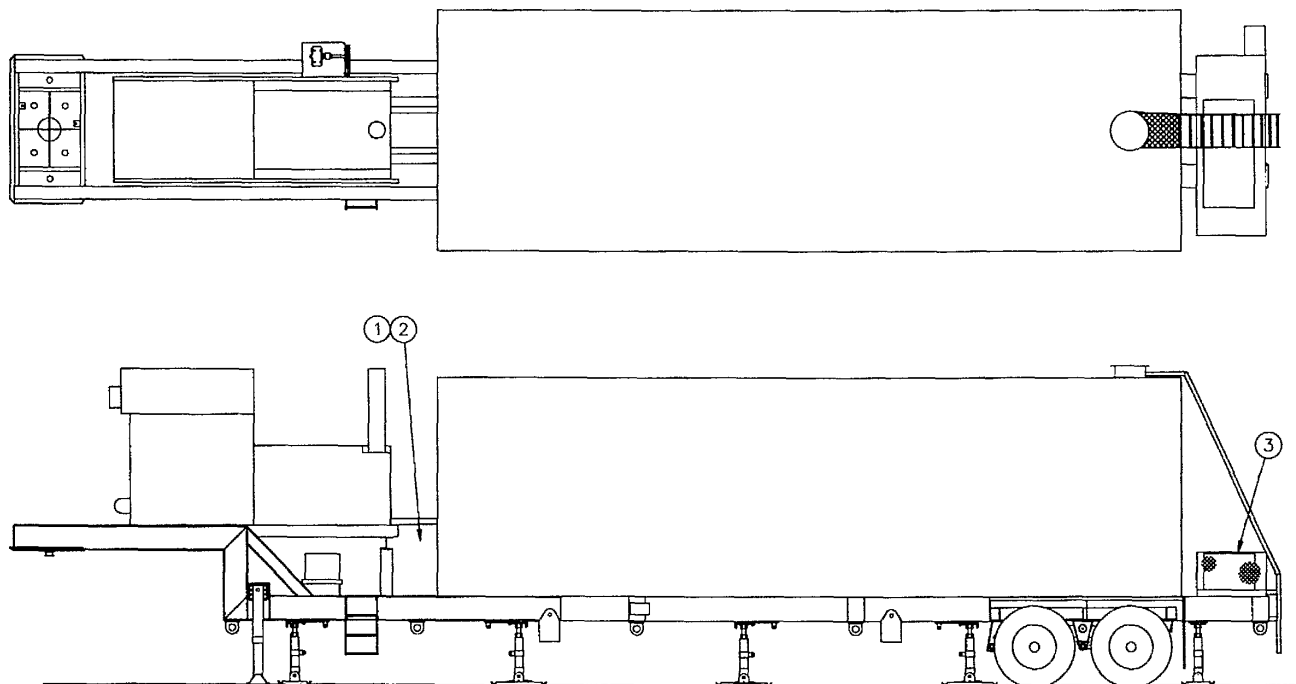
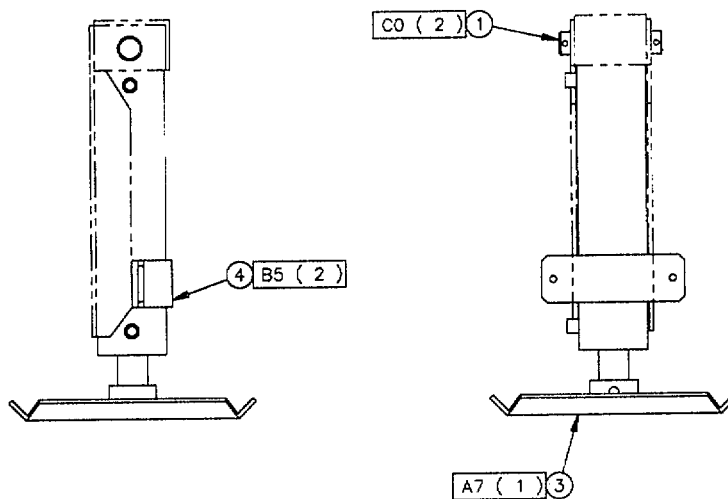


Figure 156-Hot Oil Transfer Piping

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-20		LEVELLING JACK	Fig 157	
157-1	1	MP 51-202-02	3ABO3	PIN		4
157-2	1	MP 51-400-64	3ABO3	BASE PLATE		2
157-3	1	MP 40-400-92	3ABO3	BASE PLATE HYDRAULIC JACK		2
157-4	1	MP 51-400-67	3ABO3	CLAMP LIFT CYLINDER		4
157-A7	1	COMMERCIAL		BOLT 3/4" X 4 1/2" LG, NL		4
157-B5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW		8
157-C0	1	COMMERCIAL		COTTER PIN 3/8" X 3"		8



REAR

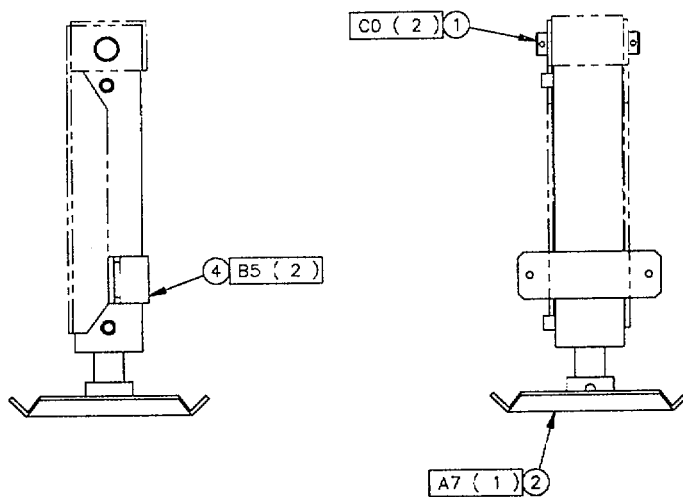
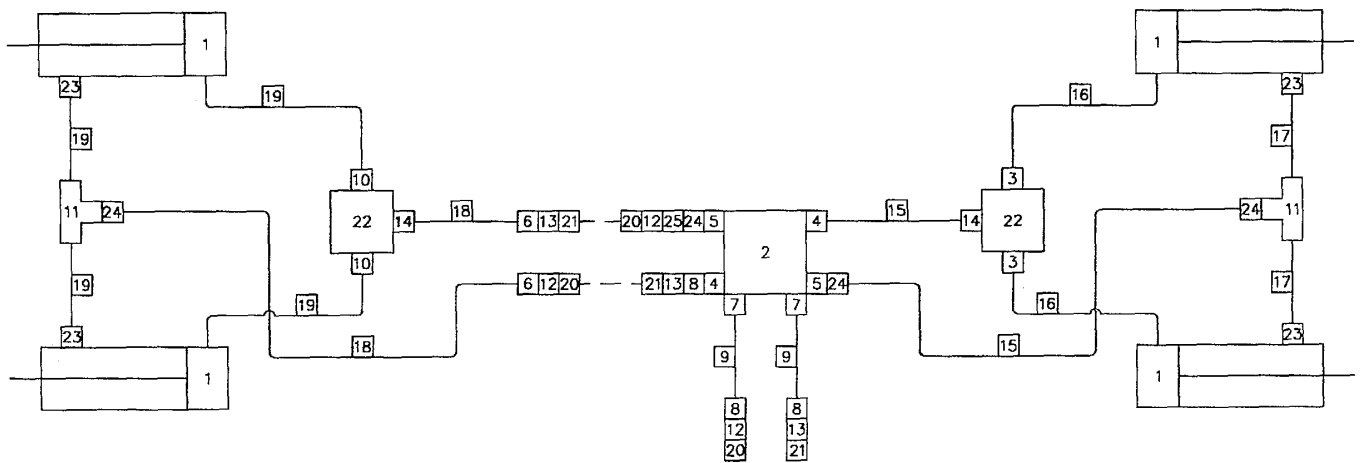


Figure 157 -Levelling Jack

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-43		LEVELLING JACK PIPING	Fig 158	
158-1	1	H2 03-950-20	3ABO3	HYDRAULIC CYLINDER 5" BORE X 18" STROKE	Fig 152	4
158-2	1	H2 90-983-99	3ABO3	VALVE		1
158-3	1	H2 2068-8-8S	01276	1/2" MALE ORB-1/2" NPT FEM SWIVEL X 90 DEG		2
158-4	1	H2 2068-8-6S	01276	3/8" MALE ORB-1/2" NPT FEM SWIVEL X 90 DEG		2
158-5	1	H2 2066-8-6S	01276	3/8" MALE ORB-1/2" NPT FEM SWIVEL X 90 DEG		2
158-6	1	H2 2047-8-8S	01276	1/2" MALE NPT-1/2" NPT FEM SWIVEL X 90 DEG		2
158-7	1	H2 202702-6-8S	01276	3/8" MALE ORB-1/2" JIC MALE		2
158-8	1	H2 2021-8-8S	01276	1/2" MALE JIC-1/2" NPT MALE		3
158-9	1	H2 1290-8S	01276	1/2" HYD TUBE CW 1290-8S FLARE NUT AND 900605-8S SLEEVE LENGTH AS REQUIRED		2
158-10	1	H2 2266-8-8S	01276	1/2" MALE ORB-1/2" NPT FEM SWIVEL		2
158-11	1	H2 2255-8-8S	01276	1/2" NPT FEMALE SWIVEL		2
158-12	1	H2 5601-08-10	01276	FLUID TRANSFER COUPLING		3
158-13	1	H2 FD76-1002-08-10	01276	FLUID TRANSFER COUPLING		3
158-14	1	H2 2068-8-8S	01276	1/2" MALE ORB-1/2" NPT FEM SWIVEL X 90 DEG		2
158-15	1	19'- 0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
158-16	1	4'- 0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
158-17	1	5'- 3" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
158-18	1	5'- 9" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
158-19	1	3'- 9" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		4
158-20	1	H2 5657-10	01276	CAP		3
158-21	1	H2 5659-10	01276	PLUG		3
158-22	1	H2 PDC-8-50	02249	FLOW DIVIDER		2
158-23	1	H2 2047-8-8S	01276	1/2" NPT MALE-1/2" NPT FEM SWIVEL X 90 DEG		4
158-24	1	H2 2047-8-8S	01276	1/2" NPT MALE-1/2" NPT FEM SWIVEL X 90 DEG		4
158-25	1	H2 2083-8-8S	01276	1/2" NPT MALE-1/2" NPT MALE		1
158-26	1	C2 03-120-88	3AB03	HOSE CLAMP AS REQUIRED		





(26)- ANY CLAMPS REQUIRED FOR THIS PIPING, CAN BE ORDERED USING THE INFORMATION PROVIDED IN THE PRECEDING TABLE.

Figure 158-Levelling Jack Piping

**FIGURE 159  
MIXER TO BAGHOUSE DUCTING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-68		MIXER TO BAGHOUSE DUCTING	Fig 159	
159-1	1	51-451-67	3ABO3	AIR DUCT FLOW SWITCH	Fig 144	1
159-2	1	MP 51-401-77	3ABO3	DUCT SECTION		2
159-4	1	MP 51-401-83	3ABO3	DUCT SUPPORT		1
159-5	1	MP 51-926-04	3ABO3	DUCT JOINT RUBBER		1
159-6	1	MP 51-201-26	3ABO3	DUCT JOINT BAR		8
159-7	1	MP 51-402-25	3ABO3	DUCT JOINT FLANGE ASSEMBLY		2
159-8	1	51-926-02	3ABO3	DUCTING GASKET KIT		1
159-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW (2)		108
159-B3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW, FW		96

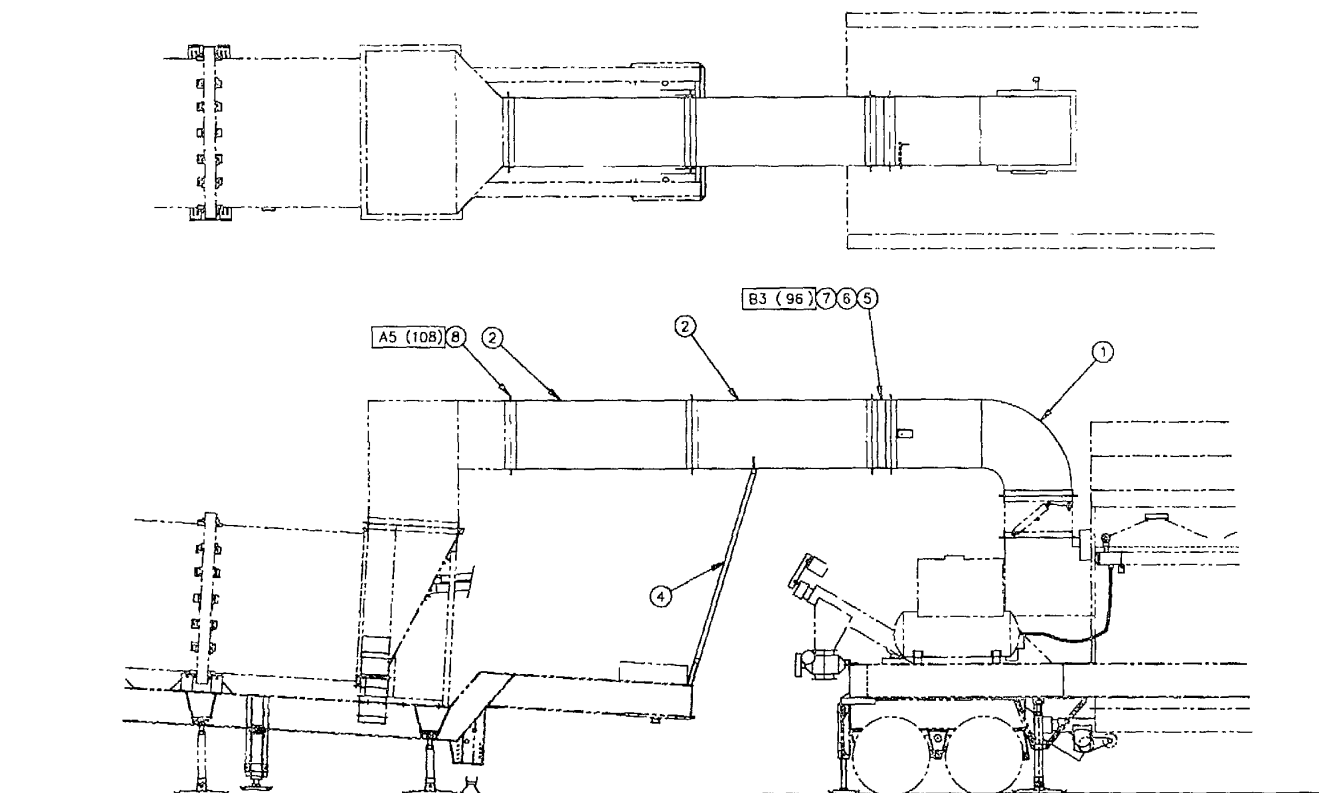


Figure 159-Mixer To Baghouse Ducting

**FIGURE 160  
EXHAUST DUCT HOUSING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-33		EXHAUST DUCT HOUSING	Fig 160	
160-1	1	40-400-81	3ABO3	EXHAUST DUCT HOUSING		1
160-2	1	03-400-54	3ABO3	MOUNT PIN ASSEMBLY		4
160-3	1	51-976-01	3ABO3	DISCHARGE DUCTING GASKET		1
160-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW		31
160-B0	1	COMMERCIAL		COTTER PIN 1/4" X 1 1/2" LG		4

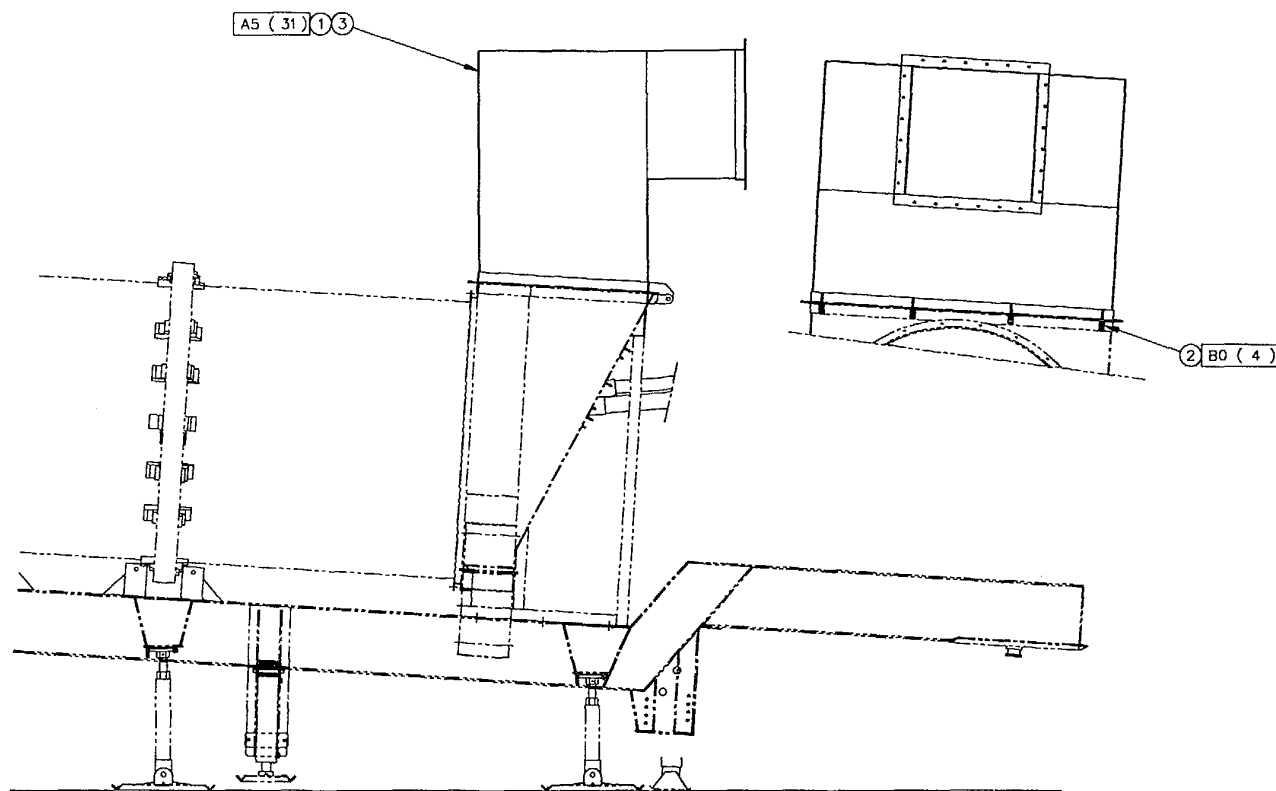


Figure 160-Exhaust Duct Housing

**FIGURE 161  
EXHAUST EXTENSION**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-73		EXHAUST EXTENSION	Fig 161	
161-1	1	MP 51-401-84	3ABO3	EXHAUST EXTENSION		1
161-A5	1	COMMERCIAL		BOLT 1/2" X 2" LG, NUT, LW, FW (2)		24

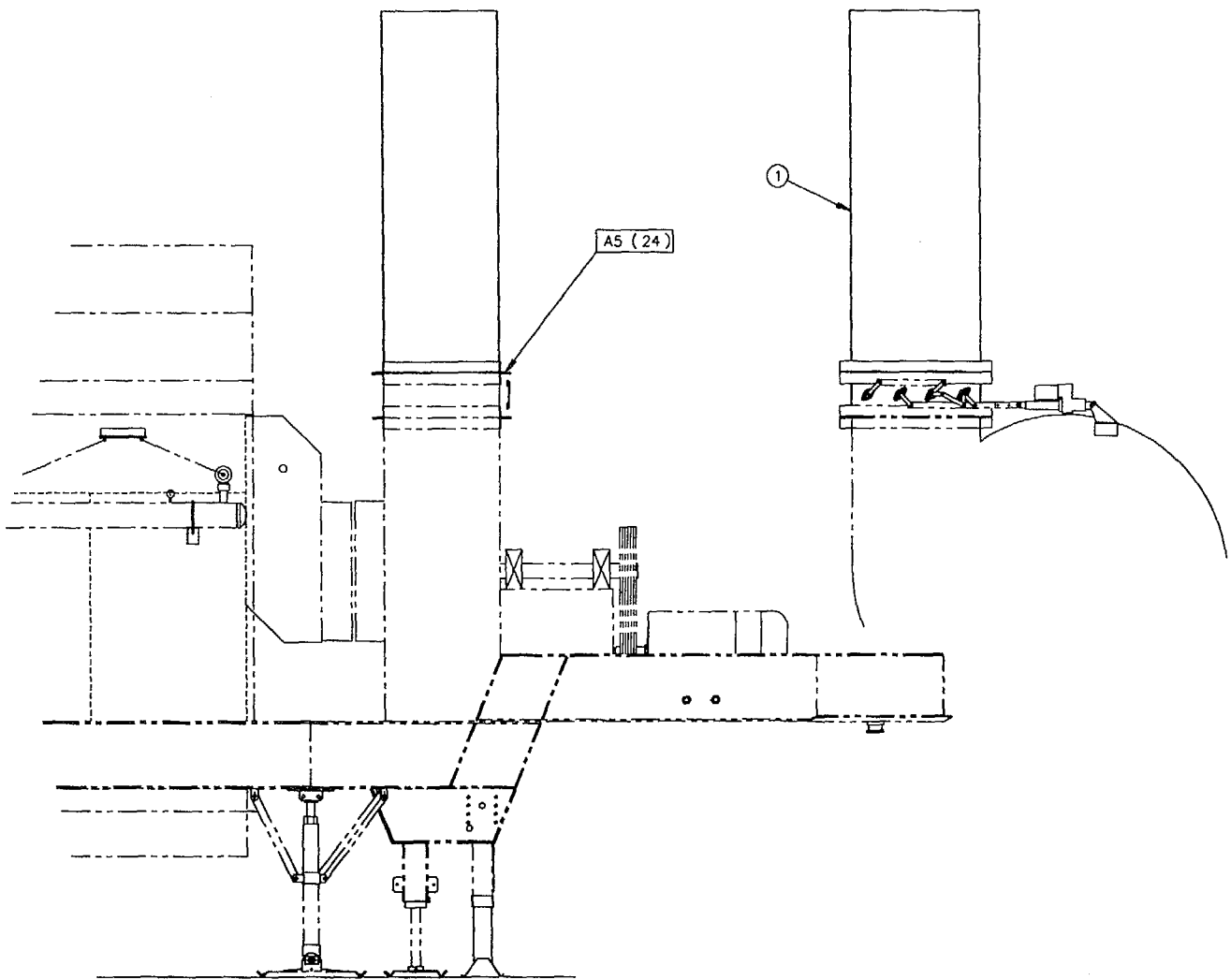


Figure 161-Exhaust Extension

**FIGURE 162  
EXHAUST BLOWER ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-14		EXHAUST BLOWER ASSEMBLY	Fig 162	1
162-1	1	MP 40-101-19	3ABO3	SHAFT GUARD		1
162-2	1	B2 SAFD 22522 X 3 15/16"	52676	PILLOW BLOCK BEARING FIXED 4 BOLT		1
162-3	1	B2 SAFD 22522 X 3 15/16"	52676	PILLOW BLOCK BEARING FLOATING 4 BOLT		1
162-4	1	MP 40-400-31	3ABO3	ACCESS DOOR		1
162-5	1	MP 40-410-01	3ABO3	EXHAUST BLOWER SHAFT		1
162-6	1	MP 40-400-32	3ABO3	EXHAUST BLOWER WELDED ASSEMBLY		1
162-7	1	MP 40-400-28	3ABO3	BEARING FAN SUB ASSEMBLY		2
162-8	1	MP 40-400-29	3ABO3	BEARING FAN GUARD		1
162-9	1	MP 40-101-18	3ABO3	EXHAUST BLOWER LINER		1
162-10	1	MP 40-101-17	3ABO3	EXHAUST BLOWER BLADE		6
162-11	1	MP 40-400-30	3ABO3	EXHAUST BLOWER HUB ASSEMBLY		1
162-13		COMMERCIAL		2" NPT PLUG		1
162-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		20
162-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		28
162-C5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW		8
162-D5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, FW, SL		2
162-E3	1	COMMERCIAL		BOLT 3/8" X 1" LG. LW		3
162-F6	1	COMMERCIAL		BOLT 5/8" X 1 1/2" LG, SL		90
162-G7	1	COMMERCIAL		BOLT 3/4" X 3 1/2" LG, NUT, FW		8
162-H3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW		4
162-JO	1	COMMERCIAL		CUP PNT SQUARE HEAD SET SCREW 3/8" X 2 3/4" LG, JN		2
162-KO	1	COMMERCIAL		CUP PNT SQUARE HEAD SET SCREW 1/2" X 2 3/4" LG, JN		4
162-LO	1	COMMERCIAL		KEY STOCK 1" SQUARE		1



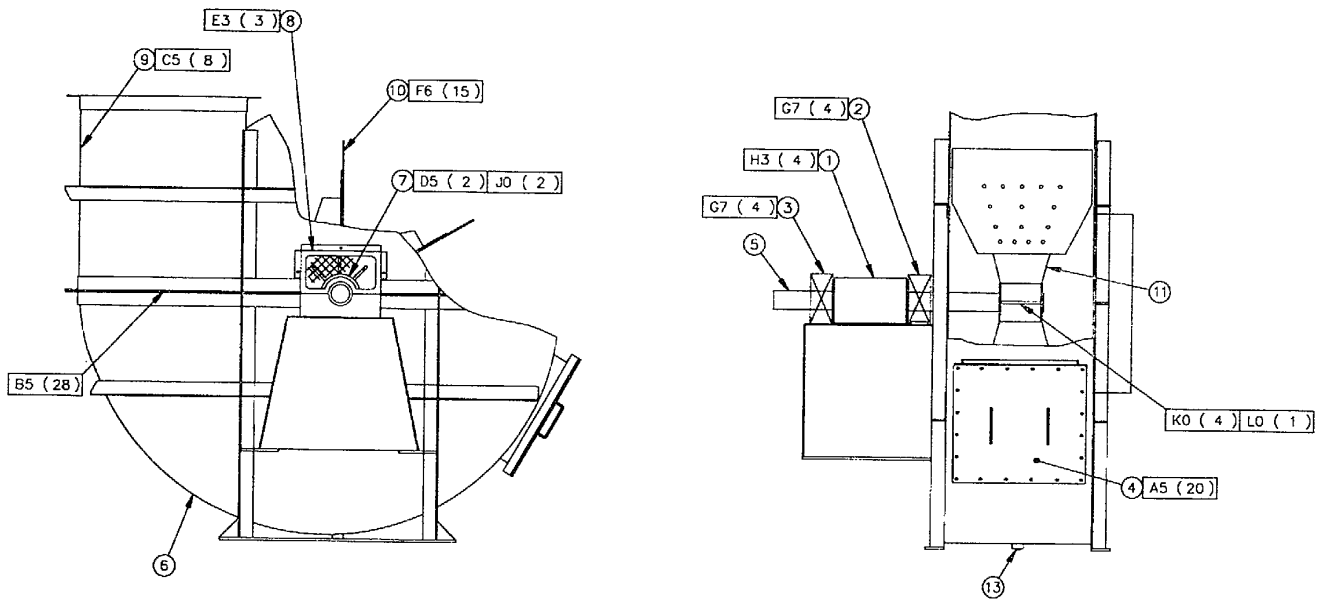


Figure 162-Exhaust Blower Assembly

**FIGURE 163  
PNEUMATIC PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-38		PNEUMATIC PIPING	Fig 163	
163-1	1	COMMERCIAL		BUSHING 2" - 1" NPT		1
163-2	1	COMMERCIAL		PIPE NIPPLE 1" NPT		5
163-3	1	COMMERCIAL		TEE 1" NPT		4
163-4	1	COMMERCIAL		BUSHING 1" - 3/8" NPT		1
163-5	1	COMMERCIAL		CONNECTOR 3/8" NPT MALE-3/8" NPT MALE		1
163-6	1	COMMERCIAL		TRAP (AUTO DRAIN)		1
163-7	1	COMMERCIAL		BUSHING 1/2" - 1/4" NPT		1
163-8	1	COMMERCIAL		TEE 1/4" NPT		1
163-9	1	COMMERCIAL		PLUG 1/4" NPT		1
163-10	1	COMMERCIAL		BALL VALVE 1/4" NPT		1
163-11	1	COMMERCIAL		STREET ELBOW 1/4" NPT X 90 DEG		1
163-12	1	COMMERCIAL		LINE 1/4" C\W 1/4 MALE SWIVEL ENDS		1
163-13	1	COMMERCIAL		MANUAL DRAIN VALVE		1
163-14	1	COMMERCIAL		PIPE NIPPLE 1/4" NPT		1
163-15	1	COMMERCIAL		ELBOW 1/4" NPT X 90 DEG		1
163-16	1	COMMERCIAL		BALL VALVE 1" NPT FEMALE		1
163-17	1	COMMERCIAL		BUSHING 1" - 1/2" NPT		1
163-18	1	COMMERCIAL		PIPE 1" NPT		1
163-19	1	COMMERCIAL		UNION 1" NPT		1
163-20	1	COMMERCIAL		PIPE 1" NPT		1
163-21	1	COMMERCIAL		ELBOW 1" NPT X 90 DEG		3
163-22	1	COMMERCIAL		PIPE 1" NPT		1
163-23	1	COMMERCIAL		PIPE 1" NPT		1
163-24	1	COMMERCIAL		PIPE 1" NPT		1
163-25	1	COMMERCIAL		PIPE 1" NPT		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
163-26	1	COMMERCIAL		BUSHING 1 1/2" - 1" NPT		1
163-27	1	COMMERCIAL		PLUG 1" NPT		1
163-28	1	COMMERCIAL		BUSHING 1" - 3/4" NPT		1
163-29	1	COMMERCIAL		CONNECTOR 3/4" NPT MALE-3/4" NPT MALE		1
163-30	1	COMMERCIAL		ELBOW 3/4" NPT X 90 DEG		1
163-31	1	COMMERCIAL		HOSE 3/4" C\W 3/4" NPT MALE-1/2" NPT MALE		1
163-32	1	COMMERCIAL		HOSE 1/2" C\W 1/2" NPT MALE-3/8" NPT MALE		2
163-33	1	COMMERCIAL		STREET ELBOW 3/8" NPT X 90°		2
163-34	1	COMMERCIAL		PIPE NIPPLE 1/2" NPT		1
163-35	1	H4 6511B-212-PM112 OA	97999	CONTROL VALVE		1
163-36	1	H4 MF500BBC	2Y894	FLOW CONTROL VALVE		1
163-37	1	H4 836T-T254J	0CGS1	PRESSURE SWITCH		1

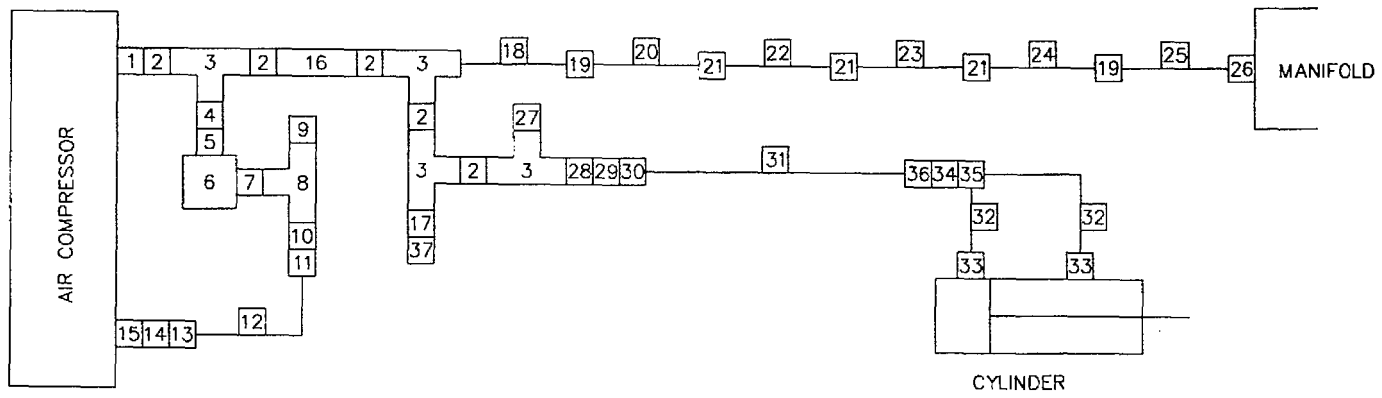
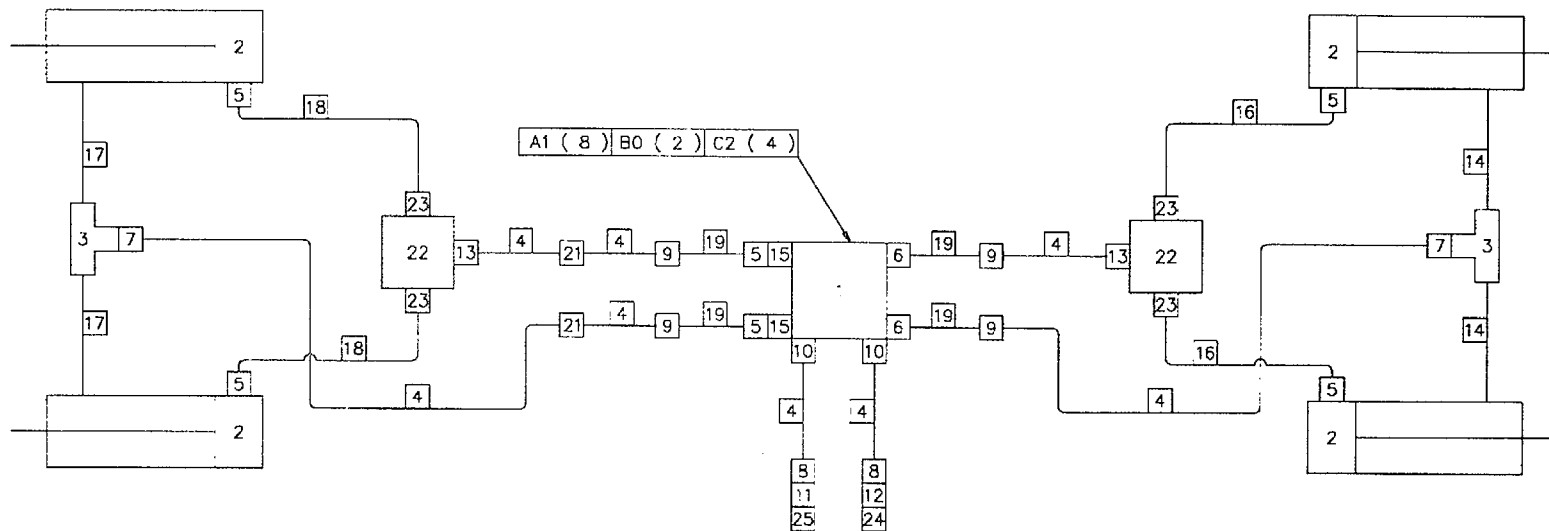


Figure 163 - Pneumatic Piping

**FIGURE 164  
LEVELLING JACK PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
		51-452-93		LEVELLING JACK PIPING	Fig 164	
164-1		H2 90-983-99	3ABO3	CONTROL VALVE		1
164-2		H2 03-950-20	3ABO3	HYDRAULIC CYLINDER 5" BORE X 18" STROKE	Fig 152	4
164-3		H2 2255-8-8S	01276	1/2" NPT FEMALE SWIVEL TEE		2
164-4			3ABO3	1/2" HYD TUBING C/W 1290-8S FLARE NUT AND 900605-8S SLEEVE LENGTH AS REQUIRED		4
164-5		H2 2047-8-8S	01276	90 DEG SWIVEL 1/2" NPT MALE-1/2" NPT FEMALE		6
164-6		H2 2068-8-6S	01276	90 DEG SWIVEL 3/8" ORB MALE - 1/2"NPT FEMALE		2
164-7		H2 2024-8-8S	01276	1/2" NPT MALE - 1/2" JIC MALE X 90 DEGREE		2
164-8		H2 2021-8-8S	01276	1/2" NPT MALE - 1/2" JIC MALE		2
164-9		H2 2022-8-8S	01276	1/2" JIC MALE - 1/2" NPT FEMALE		4
164-10		H2 202702-6-8S	01276	3/8" ORB MALE-1/2" JIC MALE		2
164-11		H2 5601-08-10	01276	FLUID TRANSFER COUPLING		1
164-12		H2 FD76-1002-08-10	01276	FLUID TRANSFER COUPLING		1
164-13		H2 2062-8-8S	01276	1/2" ORB MALE - 1/2" JIC MALE		2
164-14		4'- 9" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
164-15		H2 2066-8-6S	01276	3/8" ORB MALE-1/2" NPT FEMALE SWIVEL		2
164-16		5'- 4" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
164-17		3'- 0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
164-18		4'- 6" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
164-19		3'- 4" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		4

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
164-21		H2 2027-8-8S	01276	1/2" JIC MALE - 1/2" JIC MALE		2
164-22		H2 PDC-8-50	02249	FLOW DIVIDER		2
164-23		H2 2068-8-8S	01276	1/2" ORB MALE - 1/2" NPT FEM 90 DEG SWIVEL		4
164-24		H2 5657-10	01276	CAP		1
164-25		H2 5659-10	01276	PLUG		1
164-26		C2 03-120-88	3ABO3	HOSE CLAMP AS REQUIRED		
164-A1		COMMERCIAL		1/4" NUT, LW, FW		8
164-B0		COMMERCIAL		SPAENAUER #UB-1 X U BOLT		2
164-C2		COMMERCIAL		HEX BOLT 5/16" X 3" LG, NUT, LW, FW		4



26- ANY CLAMPS REQUIRED FOR THIS PIPING, CAN BE ORDERED USING THE INFORMATION PROVIDED IN THE PRECEDING TABLE.

Figure 164 - Levelling Jack Piping

**FIGURE 165  
SUSPENSION ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-13		SUSPENSION ASSEMBLY	Fig 165	1
165-1	1	C2 135-802-002-0-000	74410	RADIAL TIRE 11R22.5		8
165-2	1	C2 46213B	41885	WHEEL 8.25 X 22.5		8
165-3	1	C2 TR-572-MS	74410	VALVE STEM		8
165-4	1	C2 D21FC167SWN81 011-92	0WXM9	AXLE	Fig C2	2
165-5	1	C2 21B-FAB-222-WB- 13.25-C-50-5592	99062	SUSPENSION	Fig C3	1



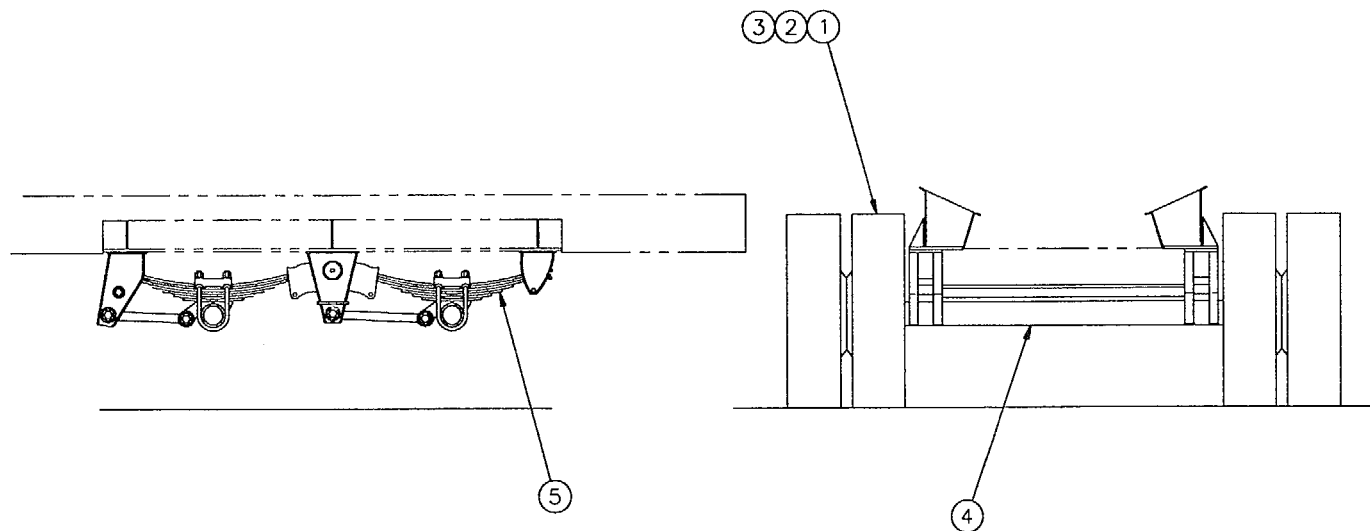


Figure 165 - Suspension Assembly

**FIGURE 166  
BATCHER CLAM GATE ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-14		BATCHER CLAM GATE ASSEMBLY	Fig 166	1
166-2	1	MP X-313-54	3ABO3	GATE MEMBER		2
166-3	1	MP 52-202-01	3ABO3	CYLINDER PIN		1
166-4	1	MP 52-400-15	3ABO3	CLAM SHELL GATE		1
166-5	1	MP X-211-34	3ABO3	HOPPER GATE PIVOT PIN		2
166-6	1	COMMERCIAL		1/8" GREASE ZERK		2
166-7	1	MP 52-400-11	3ABO3	BATCHER ASSEMBLY		1
166-8	1	MP X-211-37	3ABO3	HOPPER GATE MEMBER		2
166-9	1	E4 802T-AP	0CGS1	ALLAN BRADLEY LIMIT SWITCH		2
166-10	1	E4 802T-W2	0CGS1	ALLAN BRADLEY LIMIT SWITCH LEVER		2
166-11	1	52-450-44	3ABO3	GATE PIVOT GREASE LINES	Fig 72	1
166-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, LW		8
166-B0	1	COMMERCIAL		COTTER PIN 1/4" X 1 1/2" LG		2
166-C0	1	COMMERCIAL		COTTER PIN 3/8" X 2 1/2" LG		2

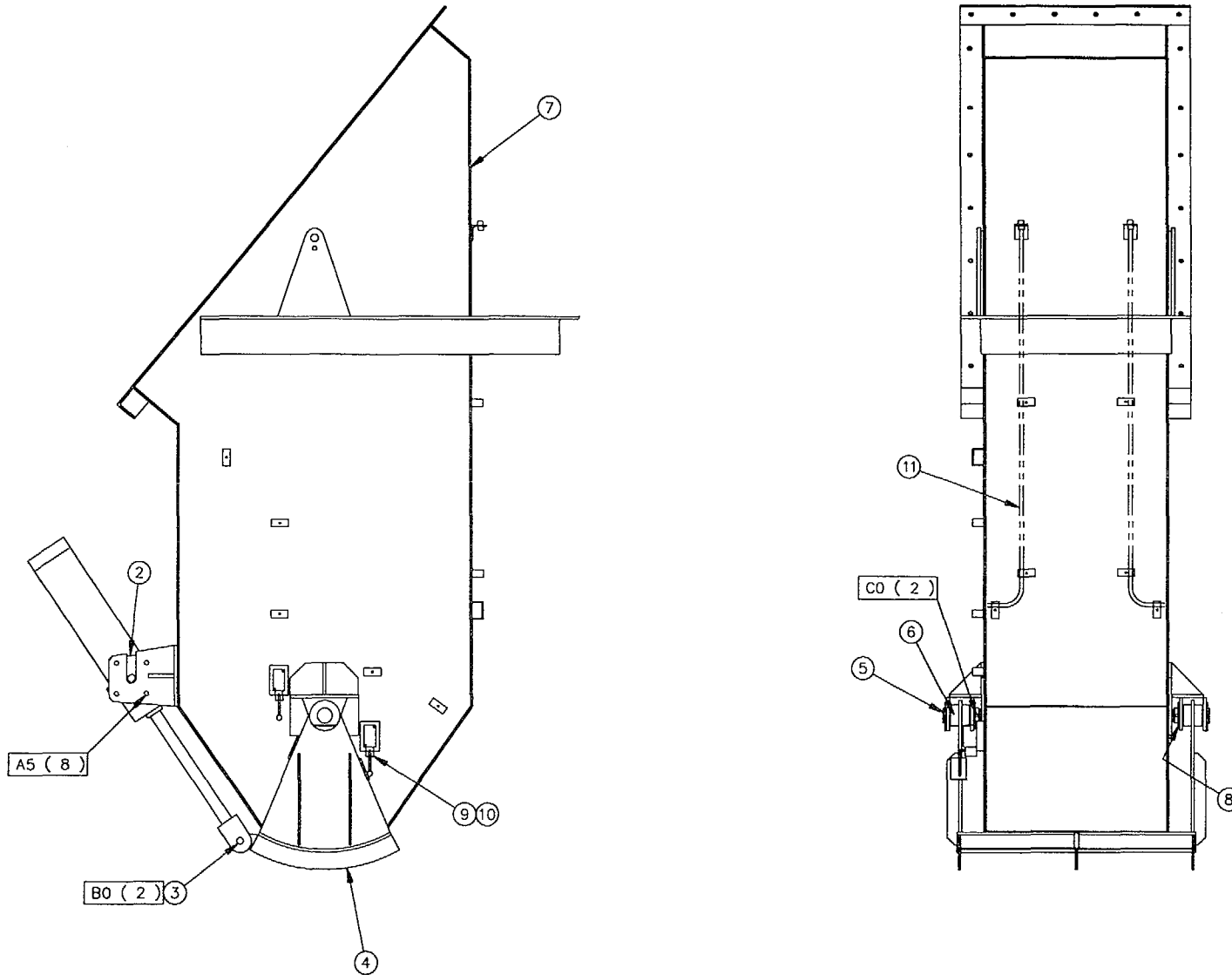


Figure 166 - Batche Clam Gate Assembly

**FIGURE 167  
ASPHALT PIPING ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-52		ASPHALT PIPING ASSEMBLY	Fig 167	
167-1	1	51-451-59	3ABO3	ASPHALT METERING PUMP DRIVE ASSEMBLY	Fig 172	1
167-2	1	51-451-60	3ABO3	ASPHALT PIPING	Fig 173	1
167-3	1	51-451-61	3ABO3	ASPHALT METERING DIVERT ASSEMBLY	Fig 174	1
167-4	1	51-451-62	3ABO3	ASPHALT TRANSFER PUMP DRIVE ASSEMBLY	Fig 175	1
167-5	1	51-451-63	3ABO3	ASPHALT TRANSFER PIPING	Fig 176	1
167-6	1	51-451-72	3AB03	ASPHALT CALIBRATION EQUIPMENT	Fig 126	1
167-7	1	51-452-40	3ABO3	ASPHALT CALIBRATION HOSE ASSEMBLY	Fig 180	1

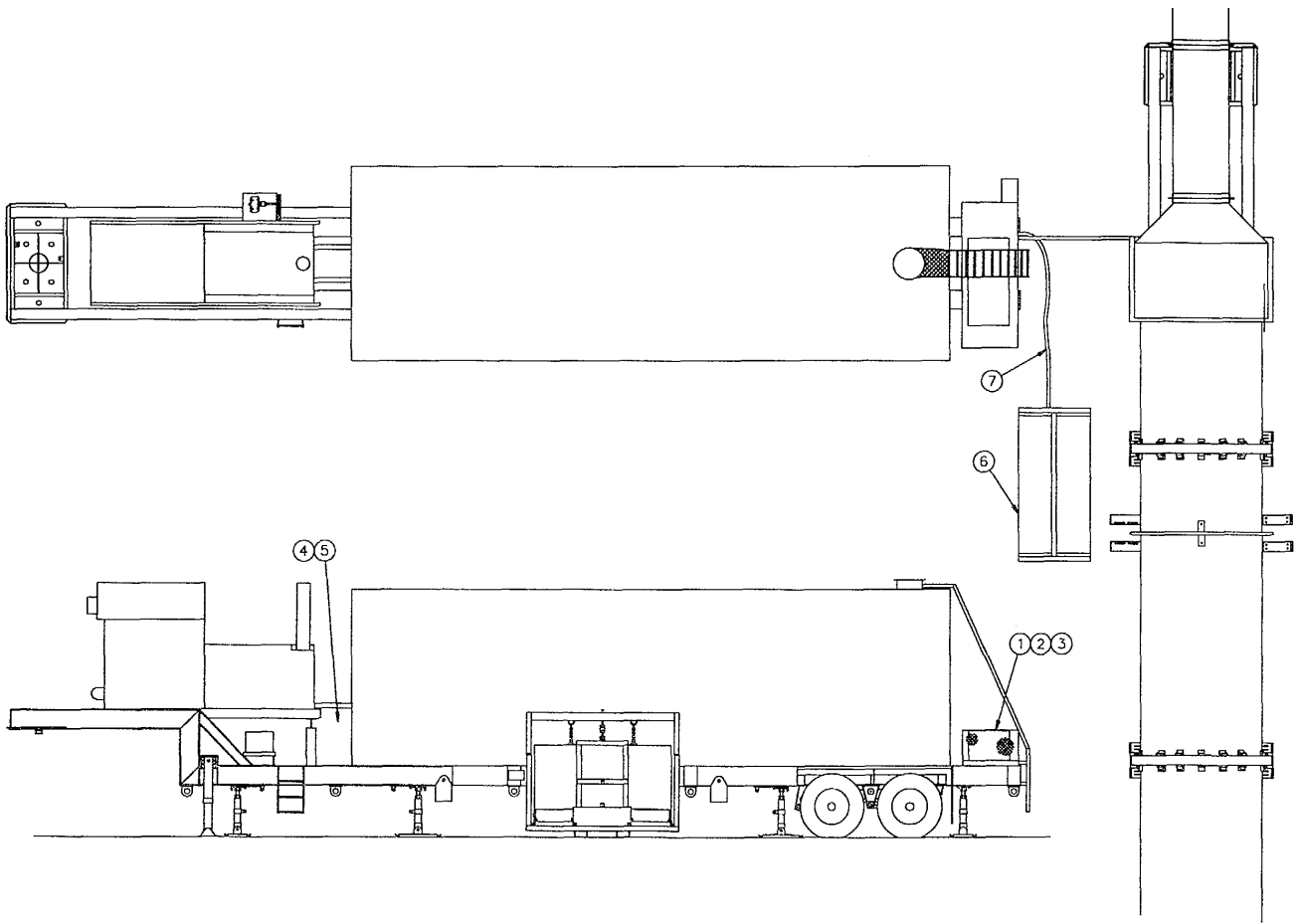


Figure 167 - Asphalt Piping Assembly

**FIGURE 168  
OIL JACKETING LINES, ASPHALT TANKER PUMP**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-55		OIL JACKETING LINES, ASPHALT TANKER PUMP	Fig 168	
168-1	1	COMMERCIAL		BUSHING 1" - 3/4" NPT		3
168-2	1	COMMERCIAL		ADAPTER 3/4" NPT MALE - 3/4" JIC MALE		3
168-3	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 33" LG		1
168-4	1	COMMERCIAL		JACKETED PIPE ASSEMBLY		1
168-5	1	COMMERCIAL		STREET ELBOW 3/4" NPT X 90°		3
168-6	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 13" LG		1
168-7	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 1/2" ENDS 1/2" NPT MALE - 1/2" JIC FEM SWIVEL X 21" LG		1
168-8	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 38" LG		1
168-9	1	COMMERCIAL		ELBOW 3/4" NPT X 90°		2
168-10	1	COMMERCIAL		PIPE 3/4" NPT		1
168-11	1	COMMERCIAL		PIPE 3/4" NPT		1
168-12	1	COMMERCIAL		BUSHING 1" - 1/2" NPT		2
168-13	1	COMMERCIAL		STREET ELBOW 1/2" NPT		3
168-14	1	COMMERCIAL		ADAPTER 1/2" NPT MALE - 1/2" JIC MALE		2
168-15	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 1/2" ENDS 1/2" NPT MALE - 1/2" JIC FEMALE X 21" LG		1

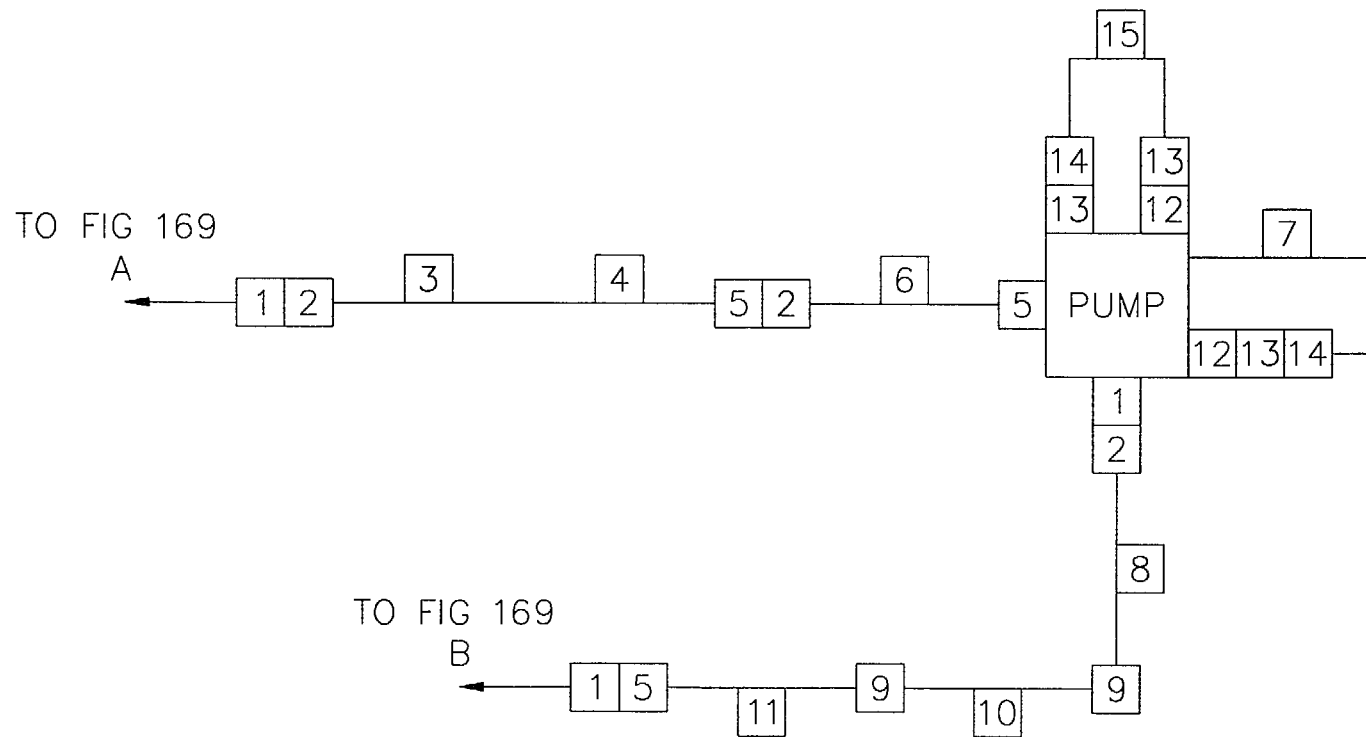


Figure 168 - Oil Jacketing Lines, Asphalt Transfer Pump

**FIGURE 169**  
**ASPHALT TANKER HEATING OIL**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-56		ASPHALT TANKER HEATING OIL	Fig 169	
169-1	1	COMMERCIAL		PIPE ASSEMBLY 2"		1
169-2	1	COMMERCIAL		PLUG VALVE 2"		2
169-3	1	COMMERCIAL		END CAP 2" NPT		1
169-4	1	ACTUATOR EL20	0WXU7	SEE CEI MANUAL	Fig C7	1
169-5	1	COMMERCIAL		PLUG VALVE 1" NPT		2
169-6	1	COMMERCIAL		PIPE NIPPLE 1" NPT		2
169-7	1	COMMERCIAL		TEE 1" NPT		2
169-8	1	COMMERCIAL		PLUG 1" NPT		2
169-9	1	COMMERCIAL		PIPE ASSEMBLY 2" FLANGE - 2" NPT		2
169-10	1	COMMERCIAL		PIPE ASSEMBLY 2" FLANGE - 2" NPT		1
169-11	1	COMMERCIAL		BALL VALVE 2"		1
169-12	1	COMMERCIAL		PIPE ASSEMBLY 2"		1
169-13	1	COMMERCIAL		PIPE ASSEMBLY 2" FLANGE - 2" NPT		1
169-14	1	COMMERCIAL		HOSE 2" FLANGE - 3" FLANGE X 16-1/4"		2
169-15	1	AP51-452-90	3AB03	RTD TEMPERATURE PROBE ASSEMBLY		2
169-16	1	MP51-100-12	3AB03	FLANGE CAP 2"		2



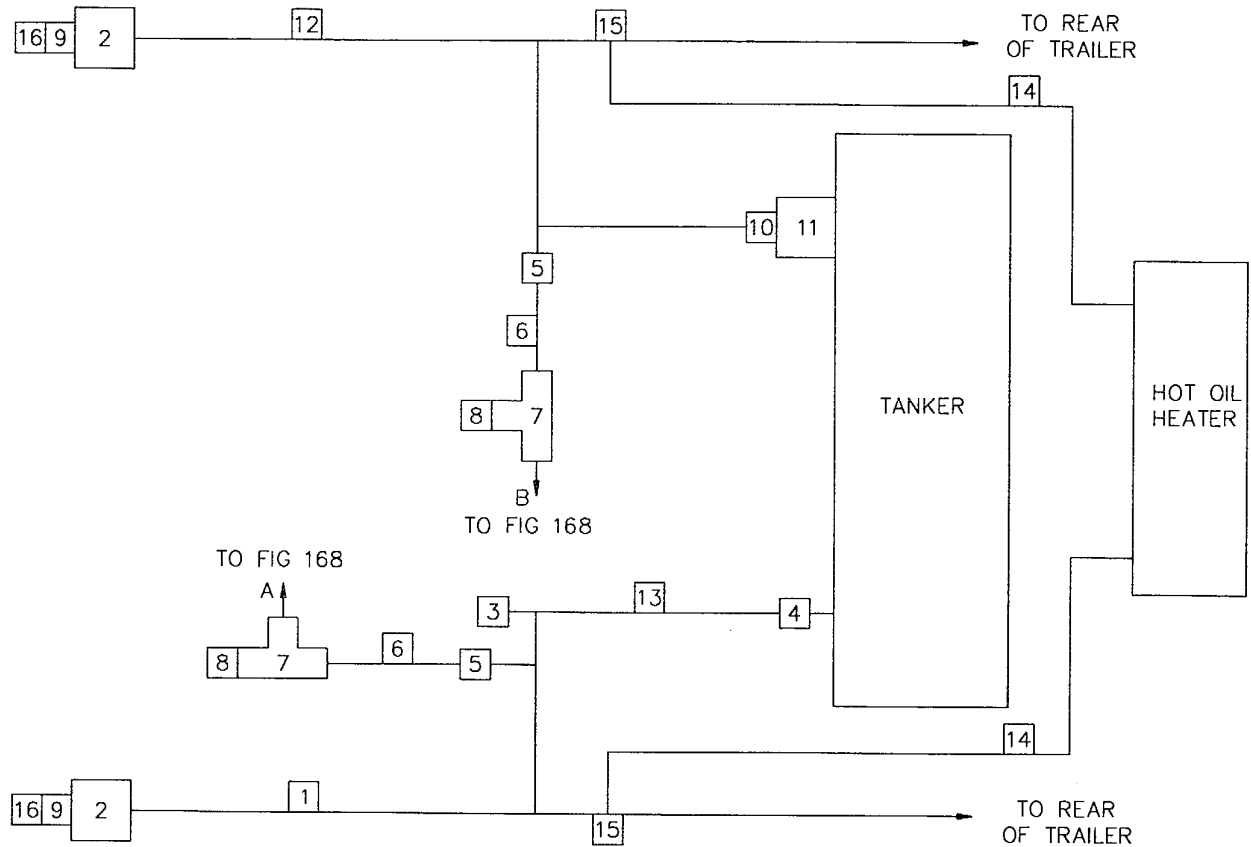


Figure 169 - Asphalt Tanker Heating

**FIGURE 170  
DIVERT VALVE PNEUMATIC PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-35		DIVERT VALVE PNEUMATIC PIPING	Fig 170	
170-1	1	COMMERCIAL		HOSE 1/2" C/W 3/8" NPT MALE - 1/2" NPT MALE		1
170-2	1	COMMERCIAL		HOSE 1/2" C/W 3/8" NPT MALE - 1/2" NPT MALE		1
170-3	1	COMMERCIAL		CLOSE NIPPLE 1/2" NPT		1
170-4	1	COMMERCIAL		ELBOW 1/2" NPT X 90°		2
170-5	1	COMMERCIAL		NIPPLE 1/2" NPT X 2 1/2" LG		1
170-6	1	COMMERCIAL		HOSE 3/4" C/W 1/2" NPT MALE - 3/4" NPT MALE		1
170-7	1	COMMERCIAL		STREET ELBOW 3/4" X 90°		2
170-8	1	COMMERCIAL		NIPPLE 3/4" NPT X 2"		1
170-9	1	COMMERCIAL		PNEUMATIC CHECK VALVE 3/4" NPT		1
170-10	1	COMMERCIAL		AIR HOSE COUPLER 3/4" MALE TIP-3/4" NPT FEMALE		1
170-11	1	COMMERCIAL		CAP FOR AIR HOSE COUPLER 3/4"		1
170-12	1	COMMERCIAL		HEX HEAD PLUG 1/2" NPT		1

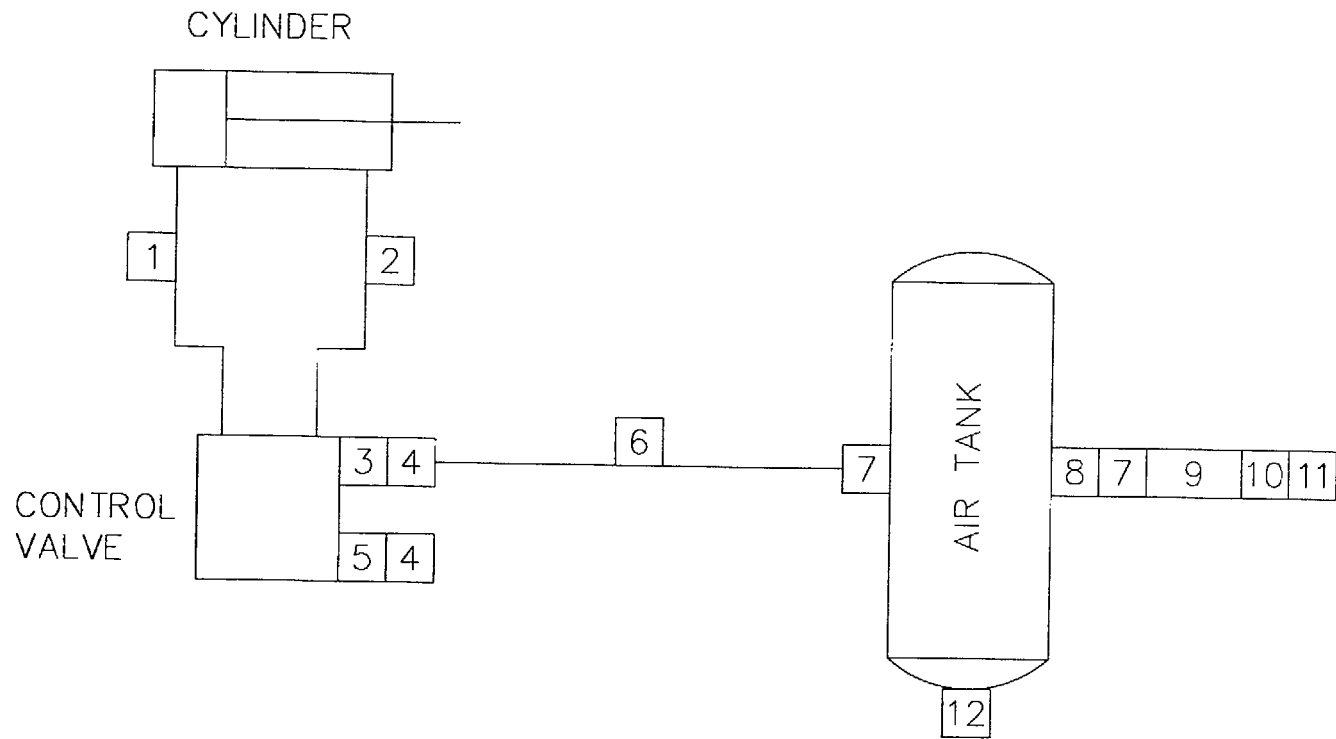
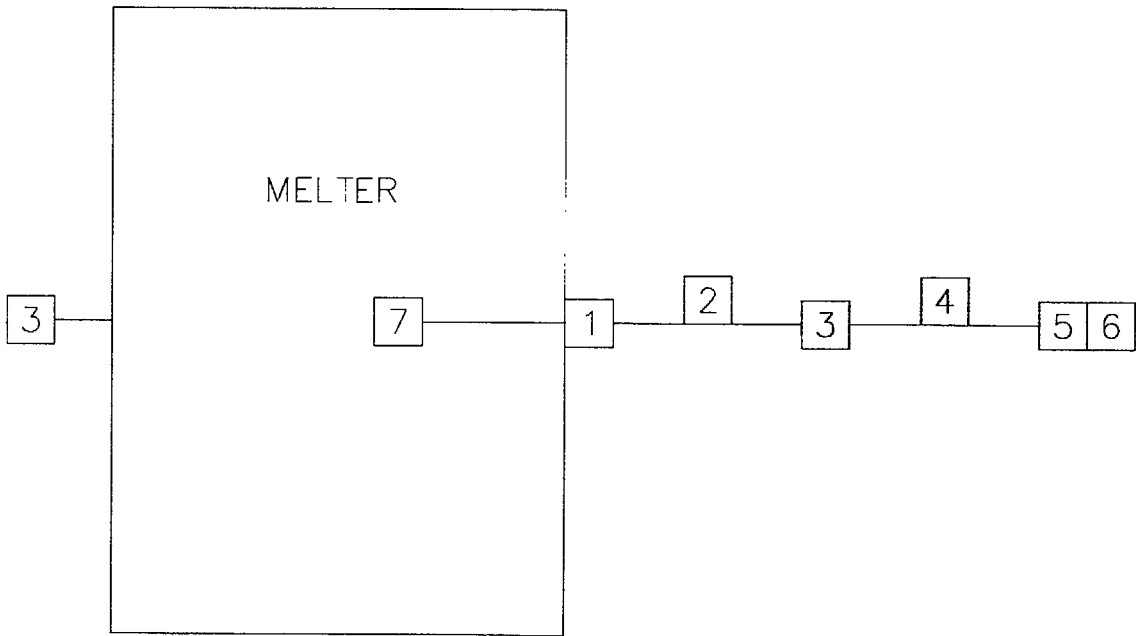


Figure 170 - Divert Valve Pneumatic Piping

**FIGURE 171  
DEDRUMMER/MELTER ASPHALT TRANSFER PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-26		DEDRUMMER/MELTER ASPHALT TRANSFER PIPING	Fig 171	
171-1	1	COMMERCIAL		PLUG VALVE 3"		1
171-2	1	COMMERCIAL		PIPE ASSEMBLY		1
171-3	1	COMMERCIAL		PLUG VALVE 2"		2
171-4	1	COMMERCIAL		CLOSE NIPPLE 2" NPT		1
171-5	1	COMMERCIAL		ADAPTER FEMALE CAMLOCK 2"- FEMALE NPT 2"		1
171-6	1	COMMERCIAL		CAMLOCK PLUG 2"		1
171-7	1	COMMERCIAL		STRAINER		1



*Figure 171 - Divert Valve Pneumatic Piping*

**FIGURE 172  
ASPHALT METERING PUMP DRIVE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-59		ASPHALT METERING PUMP DRIVE	Fig 172	
172-1	1	AP KK-230-00-2"	09742	VIKING PUMP JACKETED	Fig C12	1
172-2	1	D2 R60	0WXN6	REDUCER EURODRIVE #R60/5.16 RATIO	Fig C16	1
172-3	1	E3 KM113	36232	5HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
172-4	1	B2 AELP 206-102D1	1C960	PILLOW BLOCK BEARING		1
172-5	1	W3 7JE	8D709	WOODS SURE FLEX COUPLING SLEEVE		1
172-6	1	W3 7S X 1 1/8	8D709	WOODS SURE FLEX COUPLING FLANGE		1
172-7	1	W3 7S X 3/4	8D709	WOODS SURE FLEX COUPLING FLANGE		1
172-8	1	W3 8S X 1 1/4	8D709	WOODS SURE FLEX COUPLING FLANGE		1
172-9	1	W3 8JE	8D709	WOODS SURE FLEX COUPLING SLEEVE		1
172-10	1	W3 8S X 1 1/8	8D709	WOODS SURE FLEX COUPLING FLANGE		1
172-11	1	MP 51-100-08	3AB03	COUPLING GUARD		2
172-12	1	AP AM-080	0WXW3	ASPHALT METERING PUMP	Fig C15	
172-A3	1	COMMERCIAL		BOLT 3/8" X 1" LG, NUT, LW		4
172-B3	1	COMMERCIAL		BOLT 3/8" X 1 1/2" LG, NUT, LW		8
172-C5	1	COMMERCIAL		BOLT 1/2" X 2" LG, NUT, LW		4
172-D6	1	COMMERCIAL		BOLT 5/8" X 2" LG, NUT, LW, FW		2

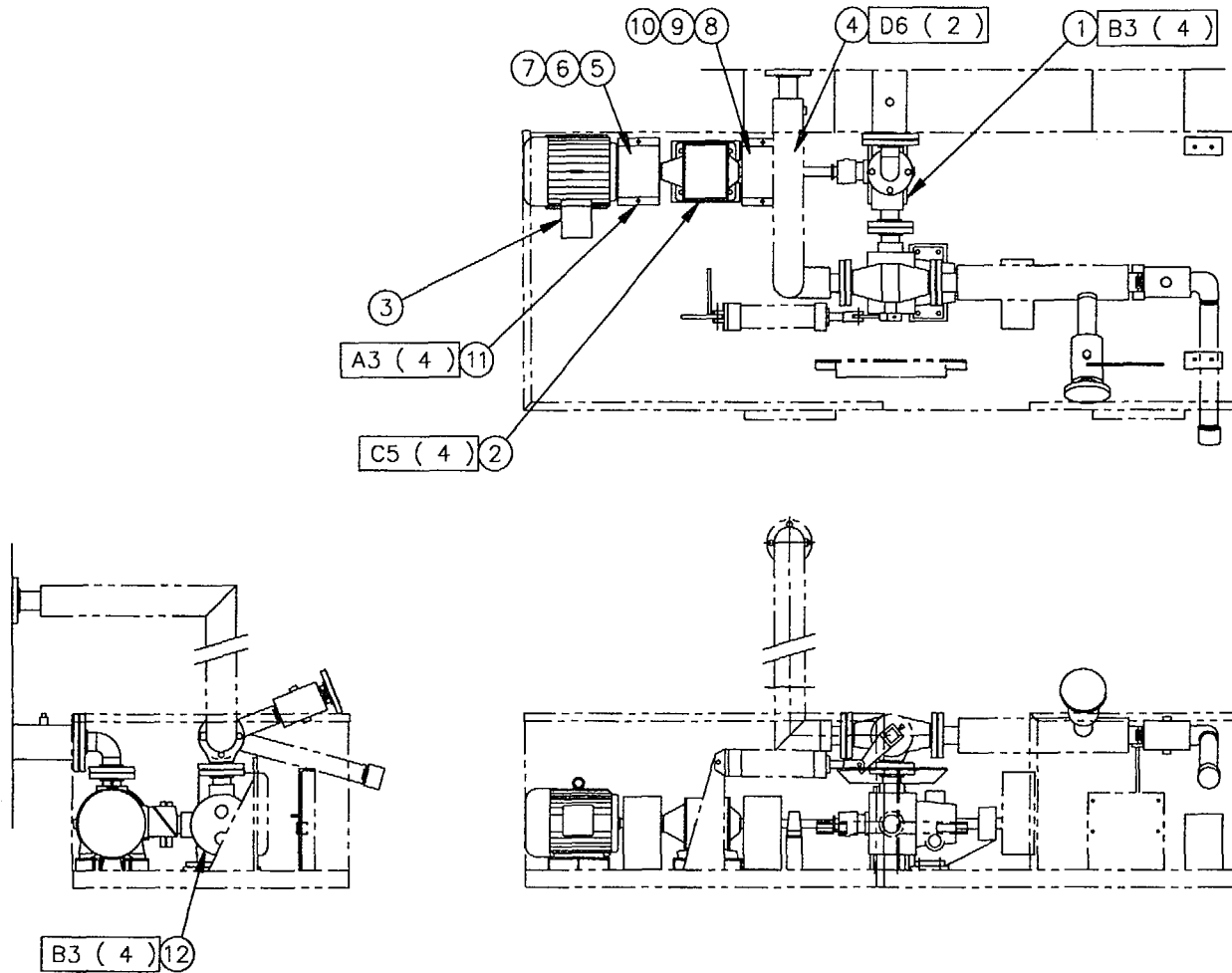


Figure 172 - Asphalt Metering Pump Drive

**FIGURE 173  
ASPHALT METERING PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-60		ASPHALT METERING PIPING	Fig 173	
173-1	1	COMMERCIAL		PLUG VALVE 3"		1
173-2	1	COMMERCIAL		PIPE ASSEMBLY		1
173-3	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
173-4	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
173-5	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
173-6	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
173-7	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
173-8	1	COMMERCIAL		PIPE ASSEMBLY		1
173-9	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
173-10	1	COMMERCIAL		PLUG VALVE 2"		2
173-11	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
173-12	1	COMMERCIAL		PIPE ASSEMBLY		1
173-13	1	COMMERCIAL		STREET ELBOW 2" NPT X 90°		1
173-14	1	COMMERCIAL		PIPE 2" NPT		1
173-15	1	COMMERCIAL		ADAPTER MALE CAMLOCK 2" - 2" NPT FEMALE		1
173-16	1	COMMERCIAL		CAMLOCK CAP 2"		1
173-17	1	COMMERCIAL		STRAINER		1
173-18	1	MP 51-100-12	3ABO3	FLANGE CAP 2"		1



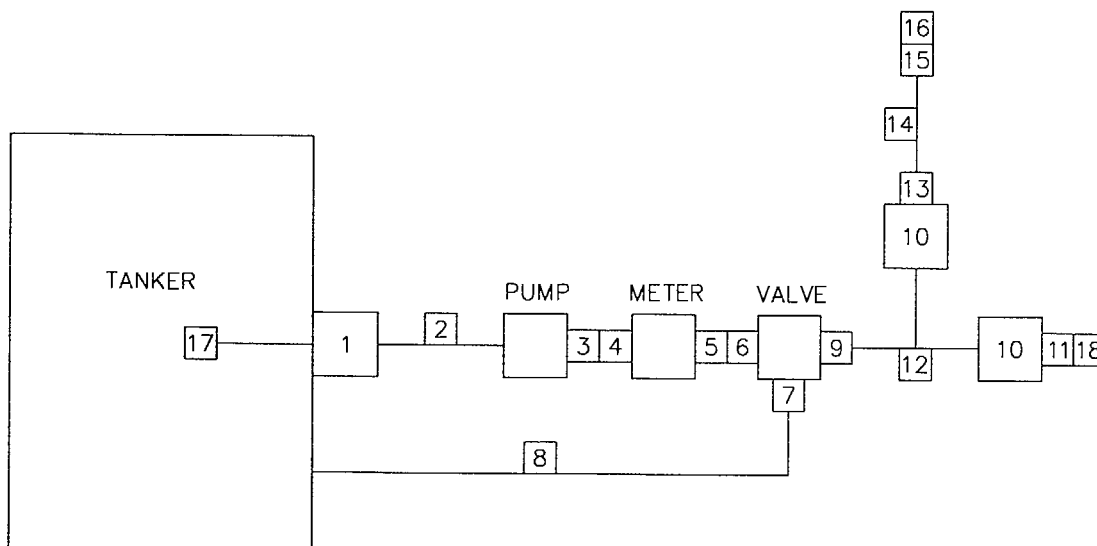


Figure 173 - Asphalt Metering Piping

**FIGURE 174  
ASPHALT DIVERT ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-61		ASPHALT DIVERT ASSEMBLY	Fig 174	
174-1	1	H2 3X8-CB-1	38846	AIR CYLINDER CWC4 ROD CLEVIS	Fig C21	1
174-2	1	H4 6511B-212-PM12D A	97999	CONTROL VALVE		1
174-3	1	AP 200L	0WXW1	3 WAY 2" PLUG VALVE		1
174-4	1	E4 802T-AP	0CGS1	LIMIT SWITCH		2
174-5	1	E4 802T-W3	0CGS1	LIMIT SWITCH LEVER		2
174-6	1	51-452-35	3ABO3	DIVERT VALVE PNEUMATIC PIPING	Fig 170	1
174-7	1	MP 51-401-76	3ABO3	ASPHALT PIPE		1
174-8	1	MP 51-402-35	3ABO3	ASPHALT TRANSFER PIPE		1
174-9	1	MP 51-402-36	3ABO3	PLUG VALVE LEVER		1
174-10	1	COMMERCIAL		PIPE CLAMP 2"		1
174-A0	1	COMMERCIAL		SLOT HEAD MACH. SCREW 5/16"		4
174-B3	1	COMMERCIAL		BOLT 3/8" X 1 1/4" LG, NUT, LW, FW		4
174-C1	1	COMMERCIAL		BOLT 1/4 "X 1 3/4" LG		2
174-D3	1	COMMERCIAL		3/8" NUT, LW		2

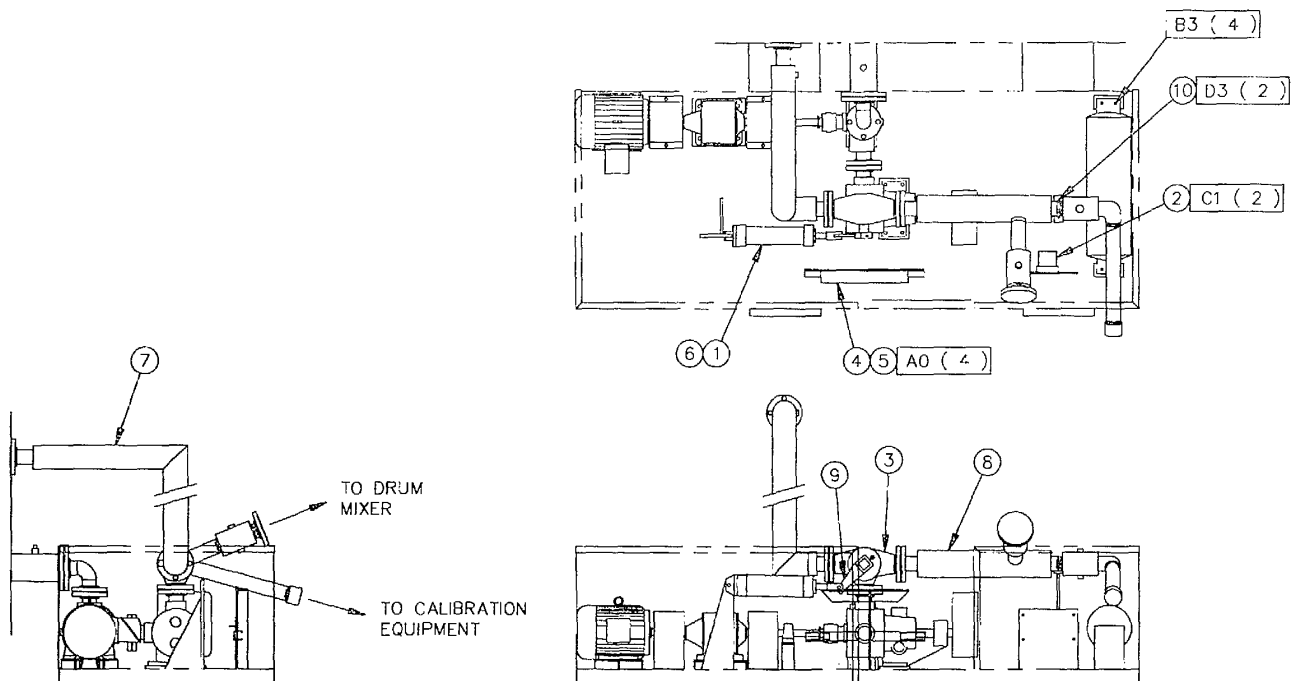


Figure 174 - Asphalt Divert Assembly

**FIGURE 175  
ASPHALT TRANSFER PUMP DRIVE ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-62		ASPHALT TRANSFER PUMP DRIVE ASSEMBLY	Fig 175	
175-1	1	H2 KK-230-OO-2	09742	VIKING PUMP	Fig C12	1
175-2	1	E3 KM113	36232	5HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
175-3	1	W2 4.2-2B-SH	8D709	SHEAVE		1
175-4	1	W2 SH X 1 1/8"	8D709	BUSHING		1
175-5	1	W2 18.4-2B-SK	8D709	SHEAVE		1
175-6	1	W2 SK X 1 1/8"	8D709	BUSHING		1
175-7	1	W3 B75	8D709	BELT		2
175-8	1	MP 51-401-79	3ABO3	DRIVE TIGHTENER		1
175-9	1	B2 AELP 206-102D1	1C960	PILLOW BLOCK BEARING		1
175-10	1	51-451-69	3ABO3	DRIVE GUARD		1
175-A3	1	COMMERCIAL		BOLT 3/8" X 1 1/4" LG, NUT, LW, FW		2
175-B3	1	COMMERCIAL		BOLT 3/8" X 1" LG, LW, FW		2
175-C3	1	COMMERCIAL		BOLT 3/8" X 1 1/2" LG, NUT, LW, FW		4
175-D6	1	COMMERCIAL		BOLT 5/8" X 2" LG, NUT, LW, FW		2
175-E3	1	COMMERCIAL		BOLT 3/8" X 1/2" LG, LW		3

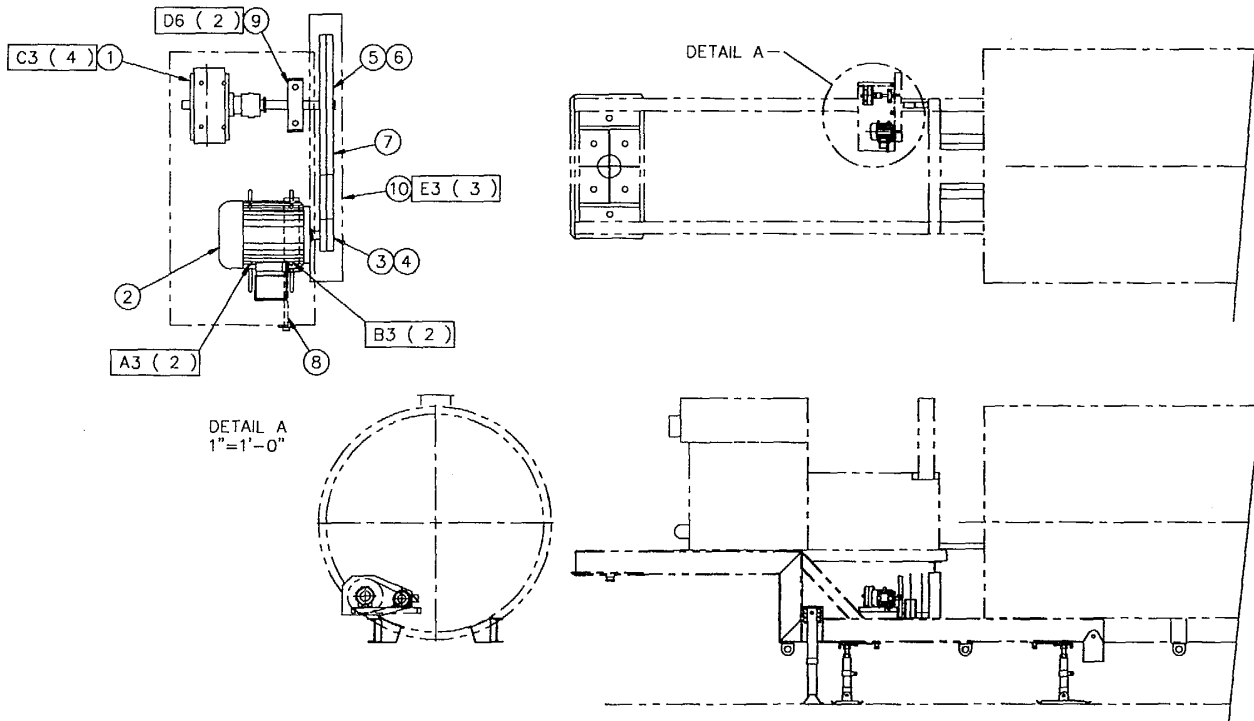


Figure 175 - Asphalt Transfer Pump Drive Assembly

**FIGURE 176  
ASPHALT TRANSFER PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-63		ASPHALT TRANSFER PIPING	Fig 176	
176-1	1	COMMERCIAL		ADAPTER CAMLOCK 2" MALE - 2" NPT FEMALE		1
176-2	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
176-3	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
176-4	1	COMMERCIAL		PLUG VALVE 2"		2
176-5	1	COMMERCIAL		PIPE NIPPLE 2" NPT		1
176-6	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
176-7	1	COMMERCIAL		JACKETED PIPE ASSEMBLY		1
176-8	1	COMMERCIAL		PLUG VALVE 3"		1
176-9	1	COMMERCIAL		CAMLOCK CAP 2"		1

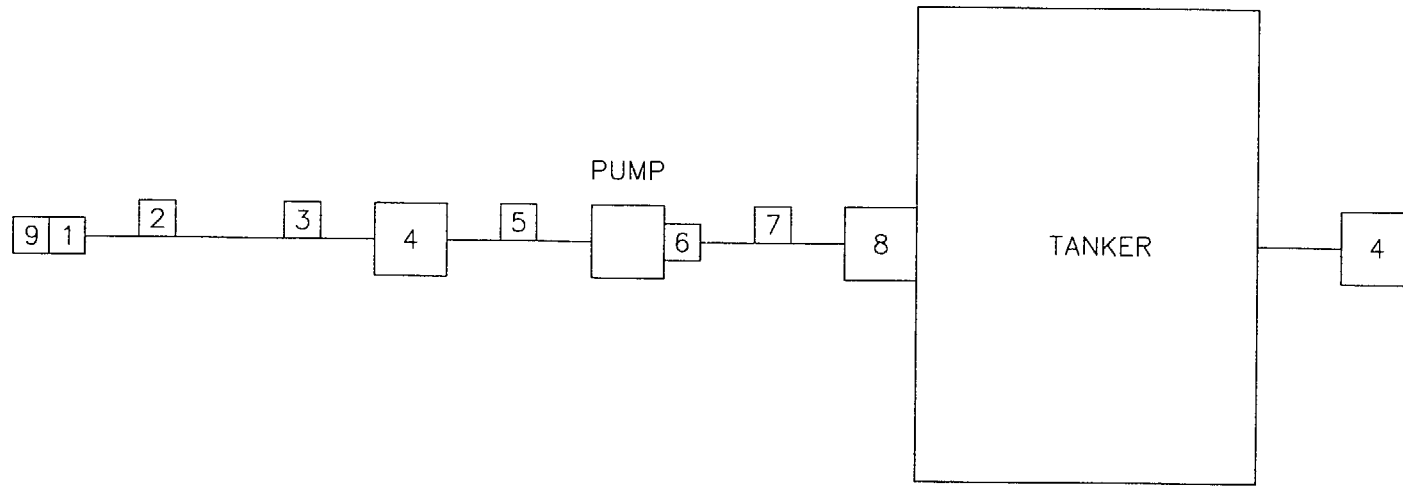


Figure 176 - Asphalt Transfer Piping

**FIGURE 177**  
**OIL JACKETING LINES, ASPHALT METERING PUMP**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-22		OIL JACKETING LINES, ASPHALT METERING PUMP	Fig 177	
177-1	1	COMMERCIAL		STREET ELBOW 1" NPT X 90°		2
177-2	1	COMMERCIAL		BUSHING 1"- 3/4" NPT		8
177-3	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 13" LG		1
177-4	1	COMMERCIAL		STREET ELBOW 1/2" NPT X 90°		2
177-5	1	COMMERCIAL		BUSHING 3/4"- 1/2" NPT		2
177-6	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 1/2" ENDS 1/2" NPT MALE - 1/2" JIC FEM SWIVEL X 21" LG		1
177-7	1	COMMERCIAL		PIPE 3/4" NPT		1
177-8	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 16" LG		1
177-9	1	COMMERCIAL		ADAPTER 3/4" NPT MALE - 3/4" JIC MALE		7
177-10	1	COMMERCIAL		ADAPTER 1/2" NPT MALE - 1/2" JIC MALE		3
177-11	1	COMMERCIAL		FEMALE TEE 1" NPT		4
177-12	1	COMMERCIAL		PIPE NIPPLE 1" NPT		4
177-13	1	COMMERCIAL		PLUG 1" NPT		4
177-14	1	COMMERCIAL		END CAP 2" NPT		2
177-15	1	COMMERCIAL		CROSS FEMALE 1" NPT		2
177-16	1	COMMERCIAL		BUSHING 1"-1/2" NPT		2
177-17	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 1/2" ENDS 1/2" NPT MALE - 1/2" JIC FEM SWIVEL X 22" LG		1



FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
177-18	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 25" LG		1
177-19	1	COMMERCIAL		STREET ELBOW 3/4" NPT X 90°		5
177-20	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 33" LG		1
177-21	1	COMMERCIAL		JACKETED PIPE		1
177-22	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 18" LG		1
177-23	1	COMMERCIAL		STREET ELBOW 1 1/4" NPT X 90°		2
177-24	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 22" LG		1
177-26	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 1/2" ENDS 1/2" NPT MALE - 1/2" JIC FEM SWIVEL X 18" LG		1
177-27	1	COMMERCIAL		FEMALE ELBOW 1/2" NPT X 90°		1
177-28	1	COMMERCIAL		FEMALE ELBOW 3/4" NPT X 90°		5
177-29	1	COMMERCIAL		PIPE 3/4" NPT		1
177-30	1	COMMERCIAL		PIPE 3/4" NPT		1
177-31	1	COMMERCIAL		PIPE 3/4" NPT		1
177-32	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 33" LG		1
177-33	1	COMMERCIAL		JACKETED PIPE ASSEMBLY		1
177-34	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 33" LG		1
177-35	1	COMMERCIAL		PIPE 3/4" NPT		1
177-36	1	COMMERCIAL		PIPE 3/4" NPT		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
177-37	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEM SWIVEL X 38" LG		1
177-38	1	COMMERCIAL		VALVE 3/4"		2
177-39	1	COMMERCIAL		PLUG 3/4" NPT		2
177-40	1	COMMERCIAL		BUSHING 1 1/4"-3/4" NPT		4

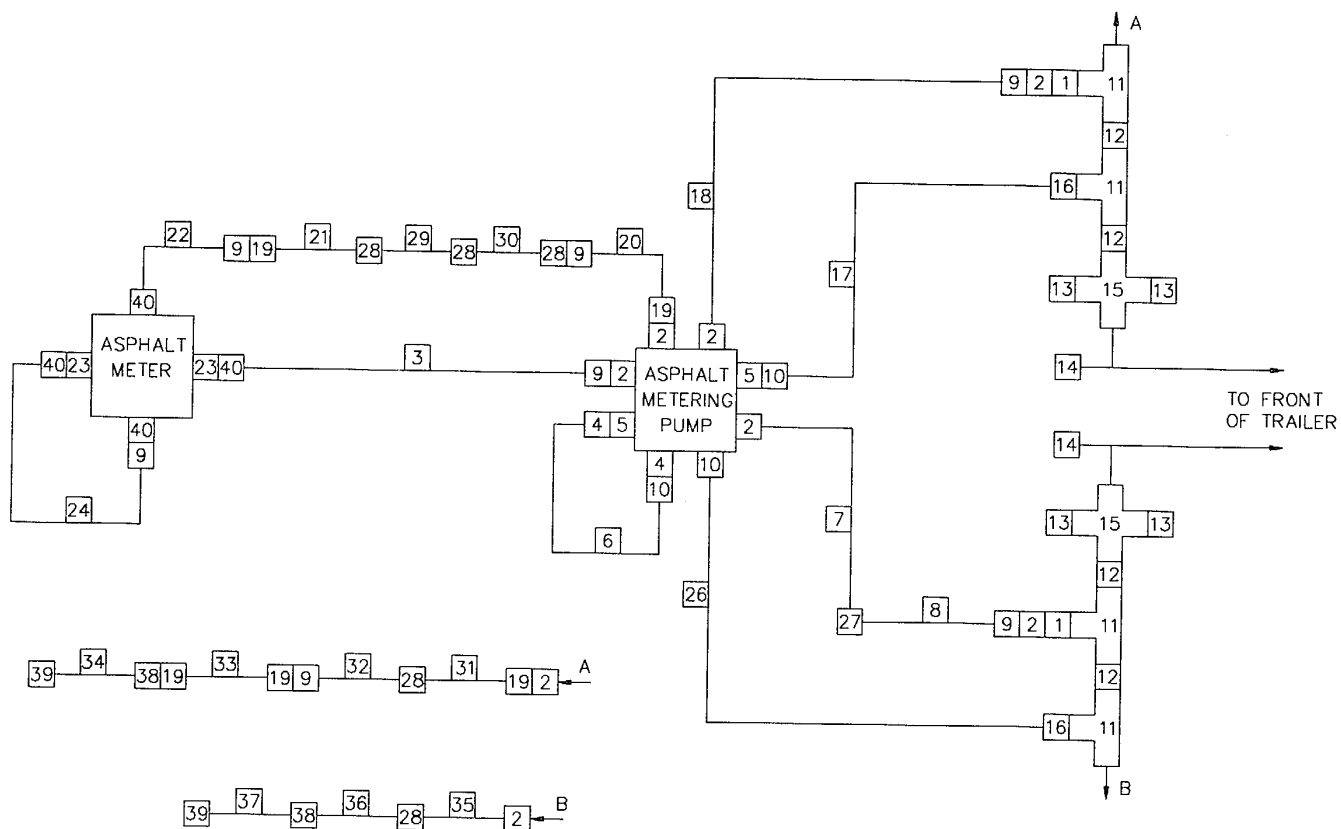
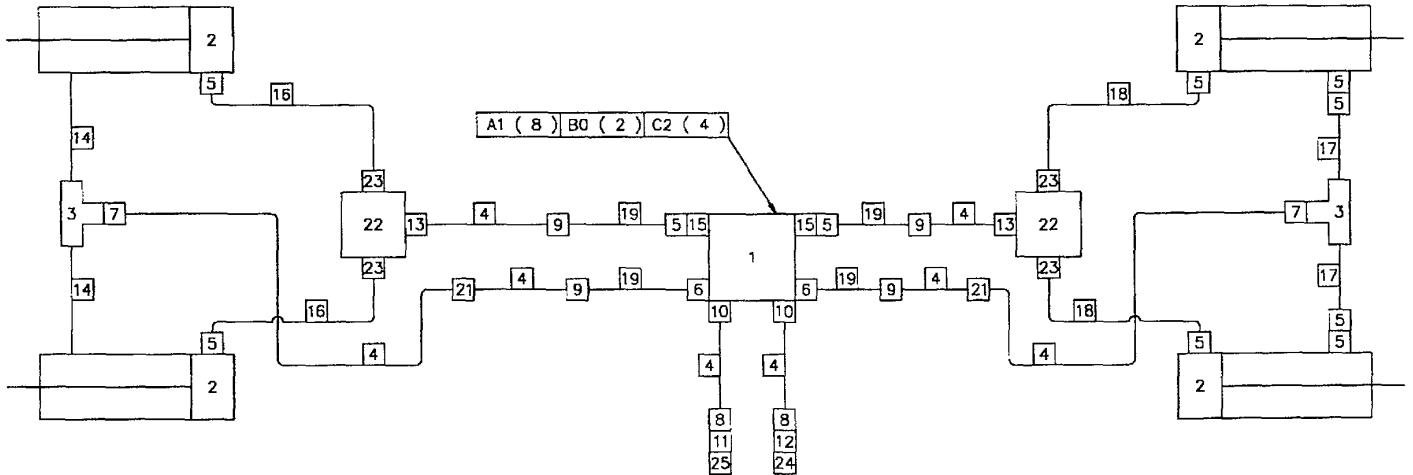


Figure 177 - Oil Jacketing Lines, Asphalt Metering Pump

**FIGURE 178  
LEVELLING JACK PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
		51-452-92		LEVELLING JACK PIPING	Fig 178	
178-1		H2 90-983-99	3ABO3	CONTROL VALVE		1
178-2		H2 03-950-20	3ABO3	HYDRAULIC CYLINDER 5" BORE X 18" STROKE	Fig 152	4
178-3		H2 2255-8-8S	01276	1/2" NPT FEMALE SWIVEL TEE		2
178-4			3ABO3	1/2" HYD TUBING C\W 1290-8S FLARE NUT AND 900605-8S SLEEVE LENGTH AS REQUIRED		4
178-5		H2 2047-8-8S	01276	90 DEG SWIVEL 1/2" NPT MALE - 1/2" NPT FEMALE		10
178-6		H2 2068-8-6S	01276	90 DEG SWIVEL 3/8" ORB MALE - 1/2" NPT FEMALE		2
178-7		H2 2024-8-8S	01276	1/2" NPT MALE - 1/2" JIC MALE X 90 DEGREE		2
178-8		H2 2021-8-8S	01276	1/2" NPT MALE - 1/2" JIC MALE		2
178-9		H2 2022-8-8S	01276	1/2" JIC MALE - 1/2" NPT FEMALE		4
178-10		H2 202702-6-8S	01276	3/8" ORB MALE - 1/2" JIC MALE		2
178-11		H2 5601-08-10	01276	FLUID TRANSFER COUPLING		1
178-12		H2 FD76-1002-08-10	01276	FLUID TRANSFER COUPLING		1
178-13		H2 2062-8-8S	01276	1/2" ORB MALE - 1/2" JIC MALE		2
178-14		5'- 6" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
178-15		H2 2066-8-6S	01276	3/8" ORB MALE-1/2" NPT FEMALE SWIVEL		2
178-16		6'- 0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
178-17		4'- 0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
178-18		4'- 4" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		2
178-19		4'- 0" 1/2"X1/2" NPT	COMM	HYDRAULIC HOSE		4

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
178-21		H2 2027-8-8S	01276	1/2" JIC MALE - 1/2" JIC MALE		2
178-22		H2 PDC-8-50	02249	FLOW DIVIDER		2
178-23		H2 2068-8-8S	01276	1/2" ORB MALE - 1/2" NPT FEM 90 DEG SWIVEL		4
178-24		H2 5657-10	01276	CAP		1
178-25		H2 5659-10	01276	PLUG		1
178-26		C2 03-120-88	3AB03	HOSE CLAMP AS REQUIRED		
178-A1		COMMERCIAL		1/4" NUT, LW, FW		8
178-B0		COMMERCIAL		SPAENAUER #UB-1 X U BOLT		2
178-C2		COMMERCIAL		HEX BOLT 5/16" X 3" LG, NUT, LW, FW		4



(26) ANY CLAMPS REQUIRED FOR THIS PIPING, CAN BE ORDERED USING THE INFORMATION PROVIDED IN THE PRECEDING TABLE.

Figure 178 - Leveling Jack Piping

**FIGURE 179  
FUEL TANK**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-24		FUEL TANK	Fig 179	
179-1	1	51-204-08	3ABO3	TUBE		1
179-2	1	COMMERCIAL		3/8" SHUT OFF VALVE		1
179-3	1	51-402-92	3ABO3	GUARD		1

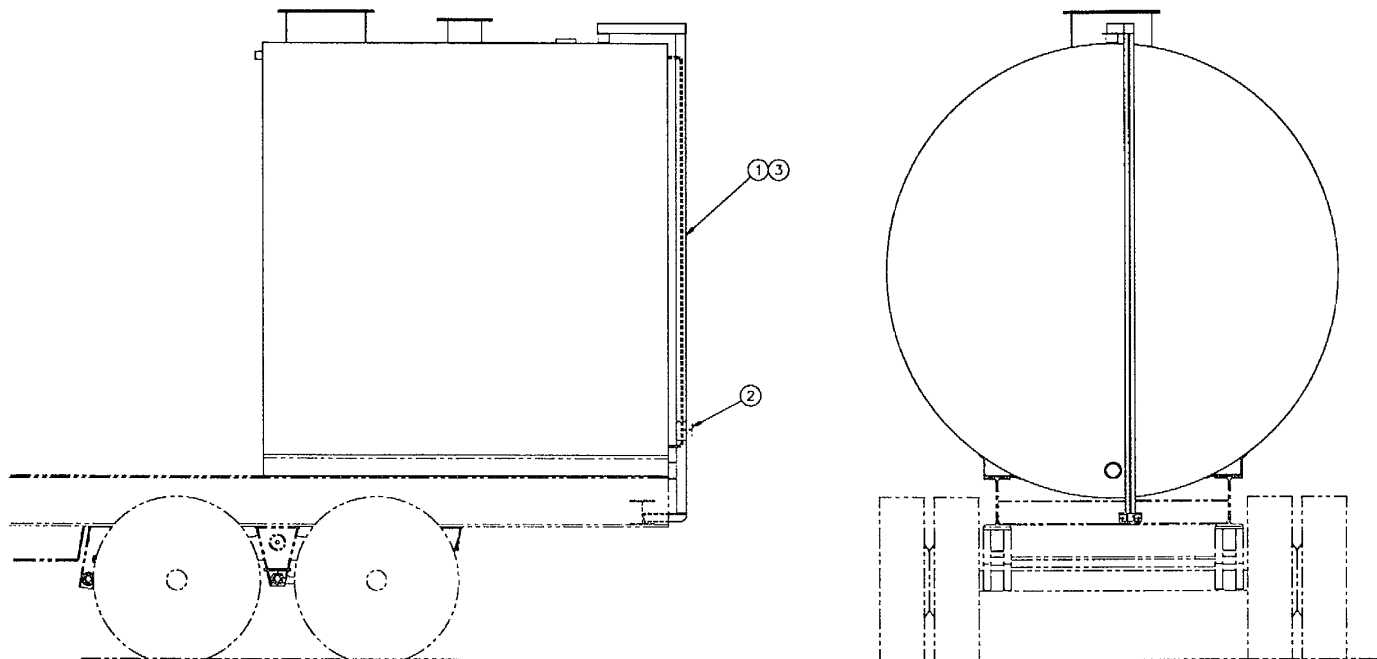
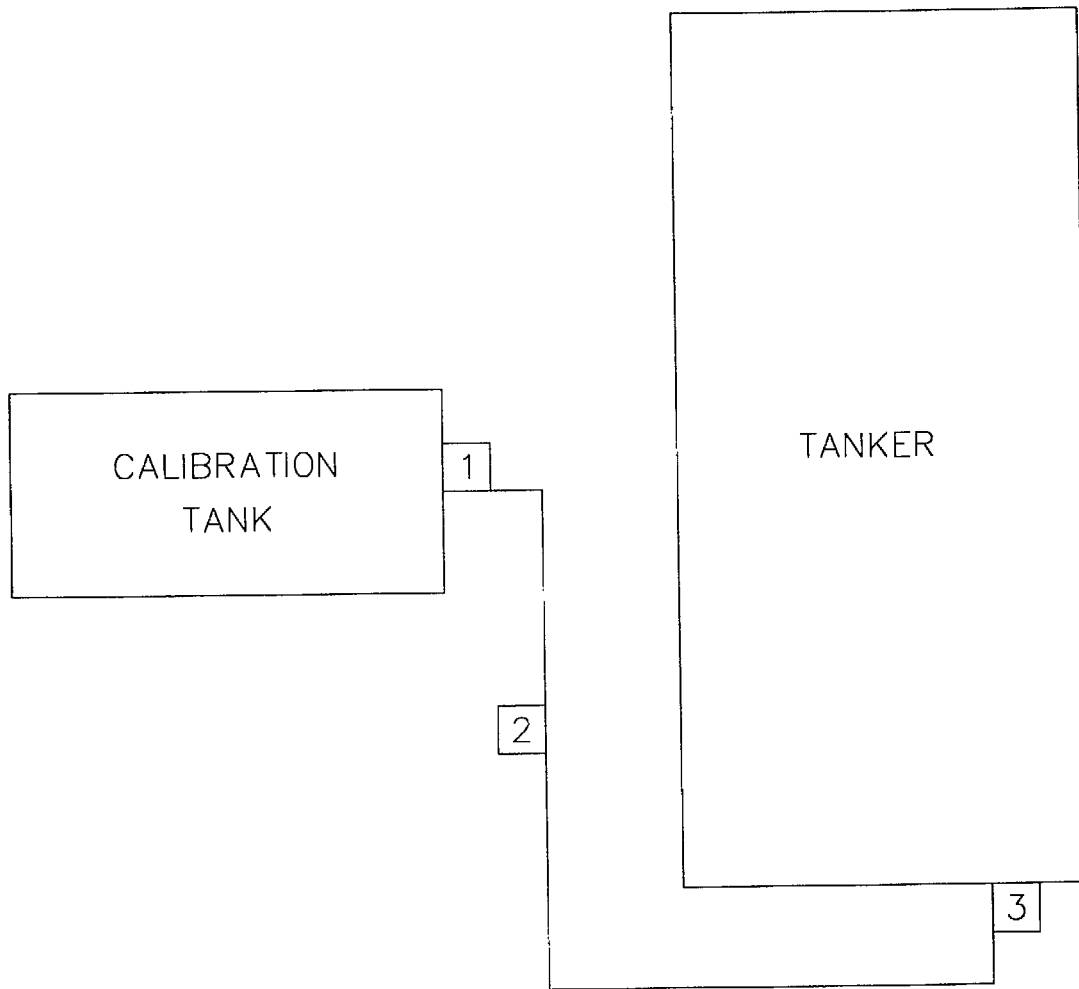


Figure 179 - Fuel Tank



**FIGURE 180  
ASPHALT CALIBRATION HOSE ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-452-40		ASPHALT CALIBRATION HOSE ASSEMBLY	Fig 180	
180-1	1	COMMERCIAL		CAMLOCK CAP 2"		1
180-2	1	COMMERCIAL		EP FLEX HOSE 2" ENDS MALE CAMLOCK 2" - FEMALE CAMLOCK 2" X 25' LG		1
180-3	1	COMMERCIAL		CAMLOCK PLUG 2"		1



*Figure 180 - Asphalt Calibration Hose Assembly*

**FIGURE 181**  
**OIL JACKETING LINES, ASPHALT PIPE TO DRUM MIXER**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-41		OIL JACKETING LINES, ASPHALT PIPE TO DRUM MIXER	Fig 181	
181-1	1	COMMERCIAL		ADAPTER 3/4" NPT MALE-3/4" JIC MALE		2
181-2	1	COMMERCIAL		COCK VALVE 3/4" NPT		2
181-3	1	COMMERCIAL		PIPE 3/4" NPT X 70 1/4" LG		1
181-4	1	COMMERCIAL		ELBOW 3/4" NPT X 90°		2
181-5	1	COMMERCIAL		CLOSE NIPPLE 3/4" NPT		2
181-6	1	COMMERCIAL		PIPE ASSEMBLY		1
181-7	1	COMMERCIAL		NIPPLE 3/4" NPT X 1 3/8" LG		1
181-8	1	COMMERCIAL		CAP 3/4" JIC		2

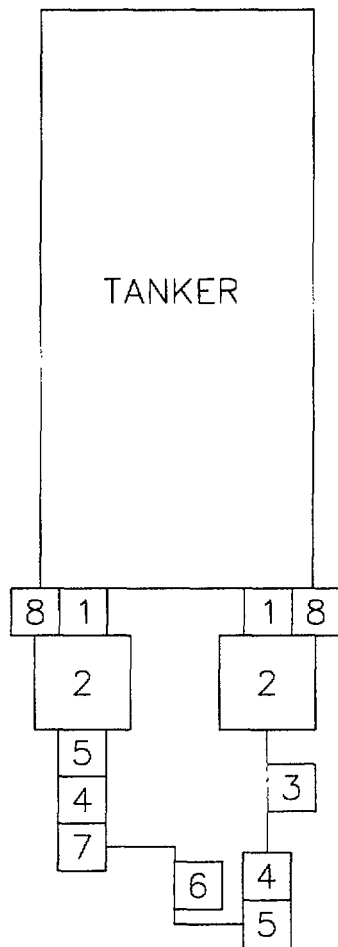


Figure 181 - Oil Jacketing Lines, Asphalt Pipe to Drum Mixer

**FIGURE 182  
ASPHALT TRANSFER PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-20		ASPHALT TRANSFER PIPING	Fig 182	
182-1	1	COMMERCIAL		EP FLEX HOSE 2" ENDS MALE CAMLOCK 2" - FEMALE CAMLOCK 2" X 42" LG		1
182-2	1	MP 51-402-32	3ABO3	JACKETED PIPE ASSEMBLY		1
182-3	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 2" ENDS 2" FLANGE X 24" LG		1
182-4	1	COMMERCIAL		CAMLOCK PLUG 2"		1
182-5	1	COMMERCIAL		CAMLOCK CAP 2"		1
182-6	1	MP 51-100-12	3ABO3	FLANGE CAP 2"		2
182-7	1	MP 51-926-05	3ABO3	GASKET KIT		1

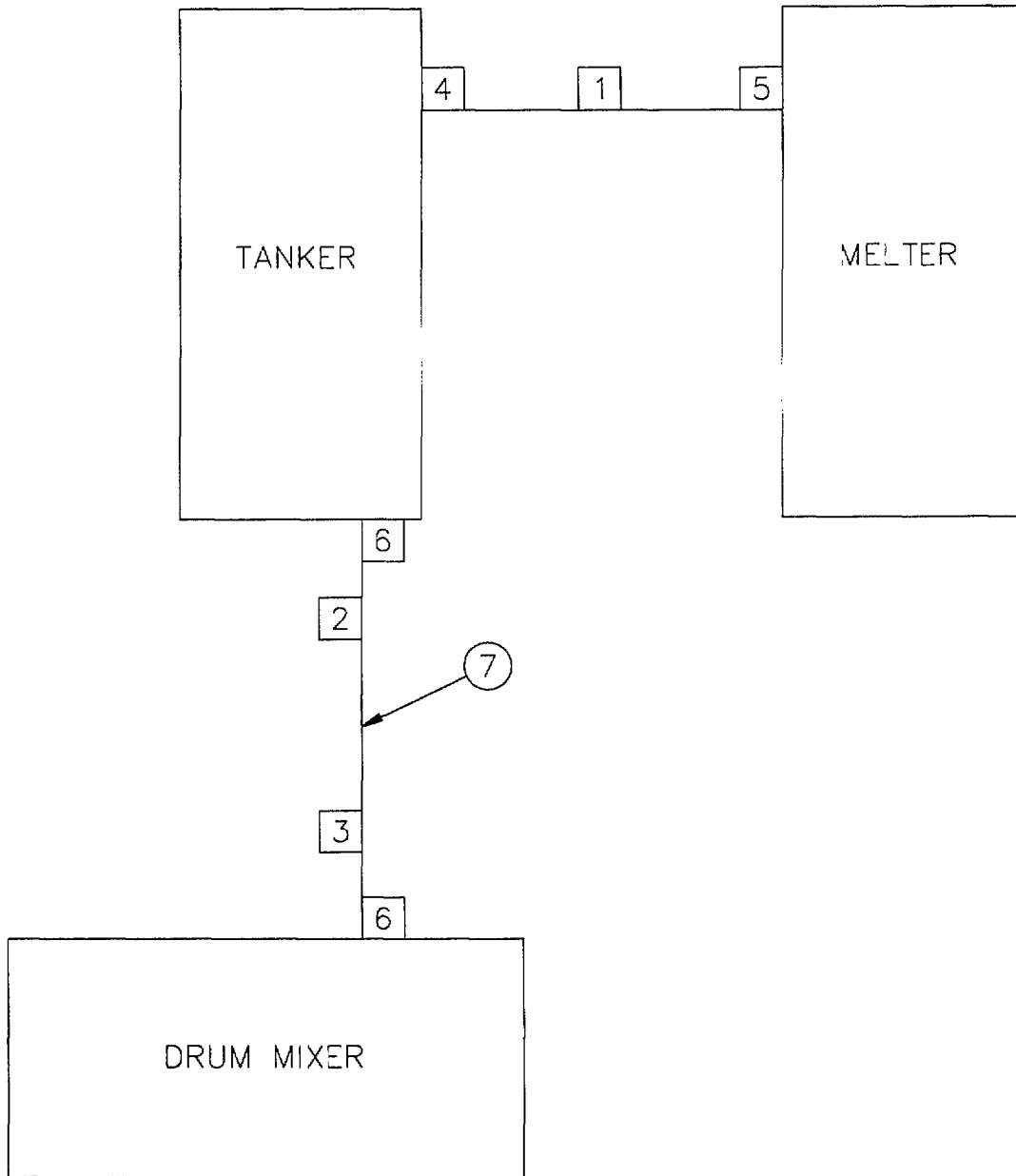


Figure 182 - Asphalt Transfer Piping

**FIGURE 183  
HOIST**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-44		HOIST	Fig 183	
183-1	1	MP 51-401-86	3ABO3	SWIVEL JIB POLE		1
183-2	1	MP 51-401-87	3ABO3	MAIN JIB POLE		1
183-3	1	AP EFS005S-15	0W697	CHAIN HOIST	Fig C20	1
183-4	1	AP TFP005	0W697	TROLLEY		1
183-5	1	AP 10-987-38	3ABO3	DRUM LIFTER MANUAL TILT		1
183-6	1	MP 51-402-34	3ABO3	PIN		2
183-7	1	B2 10-560-01	3ABO3	THRUST BALL BEARING		1
183-8	1	B2 6020 LLB/2A	1C960	NTN DEEP GROOVE SEALED BALL BEARING		1
183-A0	1	COMMERCIAL		QUIK PINS 1/4"		2

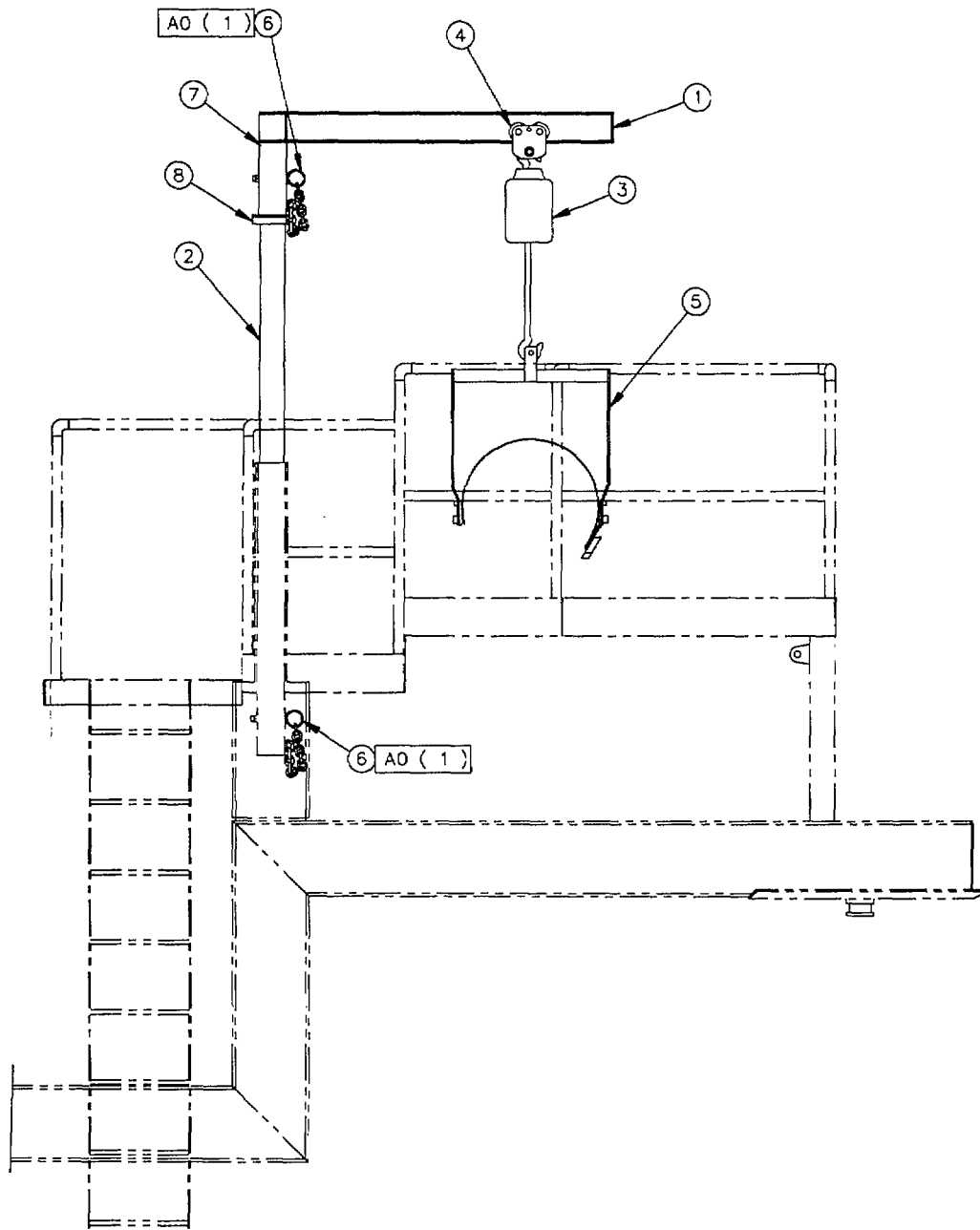


Figure 183 - Hoist



**FIGURE 184  
FUEL PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-45		FUEL PIPING	Fig 184	
184-1	1		09742	GATE VALVE 1/2" NPT		2
184-2	1		09742	GATE VALVE 1 1/4" NPT		2
184-3	1		09742	STREET ELBOW 1 1/4" NPT X 90°		2
184-4	1		09742	STREET ELBOW 1/2" NPT X 90°		1
184-5	1	H2 2083-12-8S	01276	NIPPLE 1/2" NPT MALE - 3/4" NPT MALE		1
184-6	1		09742	CLOSE NIPPLE 1 1/4" NPT		1
184-7	1		09742	BUSHING 1 1/4" NPT - 1 1/2" NPT		1
184-8	1	H2 2083-16-16S	01276	NIPPLE 1" NPT		3
184-9	1	H2 2083-20-20S	01276	NIPPLE 1 1/4" NPT		1
184-10	1		09742	CHECK VALVE 1 1/4" NPT		3
184-11	1	H2 2081-20-16S	01276	BUSHING 1 1/4" NPT - 1" NPT		3
184-12	1	H2 2085-16-12S	01276	ADAPTER 1" NPT MALE - 3/4" NPT MALE X 90°		1
184-13	1	H2 2081-16-6S	01276	BUSHING 1" NPT - 3/8" NPT		1
184-14	1	H2 2081-6-4S	01276	BUSHING 3/8" NPT - 1/4" NPT		1
184-15	1	H2 2047-16-12S	01276	ADAPTER 1" NPT FEMALE SWIVEL X 90° - 3/4" NPT MALE		1
184-16	1	H2 2045-16-16S	01276	ADAPTER 1" NPT MALE - 1" NPT FEMALE SWIVEL		1
184-17	1	H2 2045-20-20S	01276	ADAPTER 1 1/4" NPT MALE - 1 1/4" NPT FEMALE SWIVEL		1
184-18	1	H2 2045-16-12S	01276	ADAPTER 1" NPT FEMALE SWIVEL - 3/4" NPT MALE		1
184-19	1	H2 2047-20-20S	01276	ADAPTER 1 1/4" NPT MALE - 1 1/4" X 90° FEMALE SWIVEL		1
184-20	1	H2 2021-20-20S	01276	ADAPTER 1 1/4" NPT MALE - 1 1/4" JIC MALE		1
184-21	1	H2 2022-8-8S	01276	ADAPTER 1/2" NPT FEMALE - 1/2" JIC MALE		1

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
184-22	1	H2 2027-8-8S	01276	ADAPTER 1/2" JIC MALE - 1/2" JIC MALE		1
184-23	1	H2 2090-16-16S	01276	TEE 1" NPT		1
184-24	1		3AB03	1 1/4" HOSE ASSEMBLY 1 1/4" NPT MALE ENDS X 9.5' LONG		
184-25	1		3AB03	1 1/4" HOSE ASSEMBLY 1 1/4" NPT MALE ENDS X 22" LONG		
184-26	1		3AB03	1/2" HOSE ASSEMBLY 1/2" NPT MALE ENDS X 6' LONG		
184-27	1		3AB03	1/2" STEEL TUBE C/W FLARE NUT, SLEEVE		2
184-28	1	H2 2089-20-20S	01276	ADAPTER 1 1/4" NPT MALE - 1 1/4" NPT FEMALE X 90°		1
184-29	1	COMMERCIAL		PLUG 1/2" NPT		1
184-30	1	COMMERCIAL		CAP 1 1/4" NPT		1
184-31	1	H2 2021-8-8S	01276	ADAPTER 1/2" JIC MALE - 1/2" NPT MALE		1
184-32	1	H2 2018-8-8S	01276	ADAPTER 1/2" JIC FEMALE SWIVEL - 1/2" NPT MALE		1
184-33	1		3AB03	PIPE 1 1/4" NPT X 6 3/4" LG		1
184-34	1		3AB03	ELBOW 1 1/4" NPT X 90°		2
184-35	1		3AB03	PIPE 1 1/4" NPT X 8 1/4" LG		1
184-36	1		3AB03	PIPE 1 1/4" NPT X 11 11/16" LG		1
184-37	1	COMMERCIAL		CLOSE NIPPLE 3" NPT		1
184-38	1	COMMERCIAL		GATE VALVE 3"		1
184-39	1	COMMERCIAL		BUSHING 3" NPT - 1 1/2" NPT		1
184-40	1	COMMERCIAL		PLUG 1 1/2" NPT		1
184-41	1	AP 10-968-04	3AB03	FUEL STRAINER		1
184-42	1	AP 10-968-06	3AB03	GAUGE		1

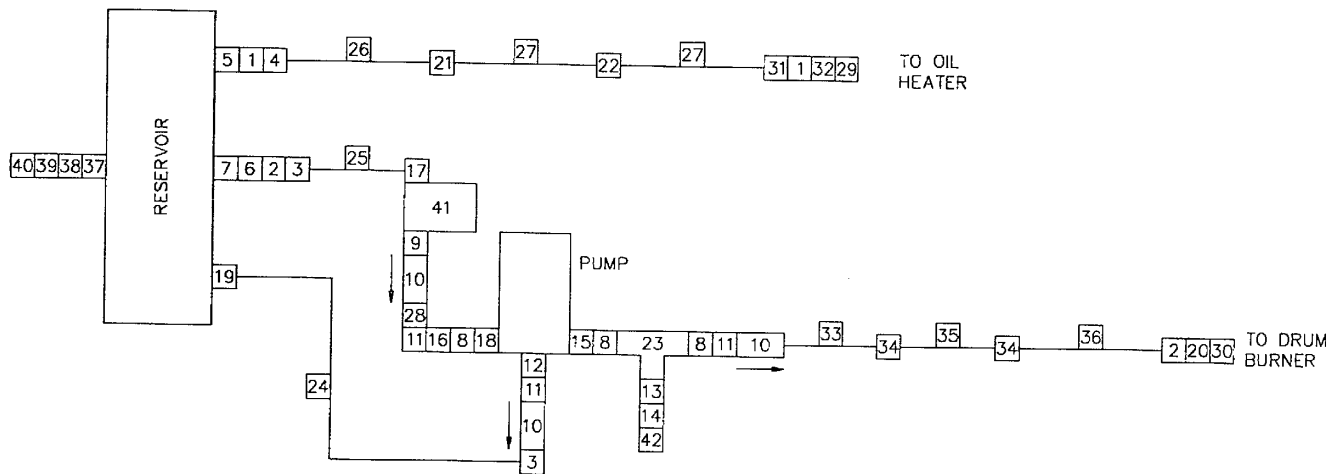


Figure 184 - Fuel Piping

**FIGURE 185  
FUEL SYSTEM MECHANICAL ASSEMBLY**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-46		FUEL SYSTEM MECHANICAL ASSEMBLY	Fig 185	
185-1	1	AP 10 G-115-00-3/4	09742	VIKING G/115 ROTARY PUMP	Fig C12	1
185-2	1	W3 4J X 5/8	8D709	WOODS SURE FLEX FLANGE COUPLING		1
185-3	1	W3 4JE	8D709	WOODS SURE FLEX SLEEVE		1
185-4	1	W3 4J X 7/8	8D709	WOODS SURE FLEX FLANGE COUPLING		1
185-5	1	E3 KM21	36232	1HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
185-6	1	MP 51-100-14	3ABO3	COUPLING GUARD		1
185-A1	1	COMMERCIAL		BOLT 1/4" X 3/4" LG, NUT, LW, FW		8
185-B1	1	COMMERCIAL		BOLT 1/4" X 1" LG, NUT, LW		2

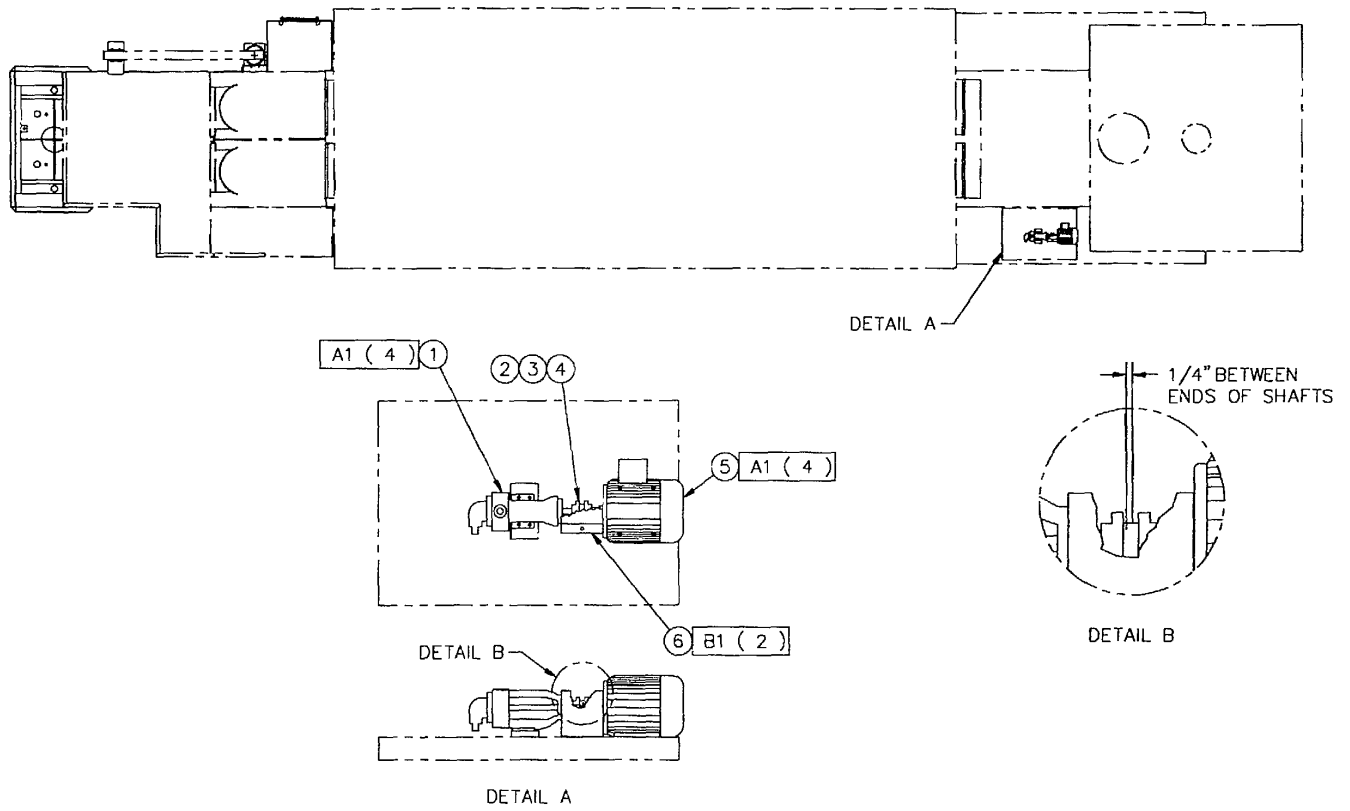


Figure 185 - Fuel System Mechanical Assembly

**FIGURE 186  
DEDRUMMER/MELTER HEATING OIL PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-24		DEDRUMMER/MELTER HEATING OIL PIPING	Fig 186	
186-1	1	COMMERCIAL		HIGH HEAT GATE VALVE 2"		4
186-2	1	COMMERCIAL		TEE 2" NPT		1
186-3	1	COMMERCIAL		PLUG 2" NPT		1
186-4	1	COMMERCIAL		BUSHING 2" - 3/4" NPT		1
186-5	1	COMMERCIAL		PIPE ASSEMBLY		1
186-6	1	COMMERCIAL		PIPE ASSEMBLY		1
186-7	1	COMMERCIAL		PLUG VALVE 2"		2
186-8	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
186-9	1	COMMERCIAL		PIPE ASSEMBLY		1
186-10	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
186-11	1	COMMERCIAL		PIPE ASSEMBLY 2" ENDS 2" FLANGE - 2" NPT		1
186-12	1	MP 51-100-12	3ABO3	FLANGE CAP 2"		2

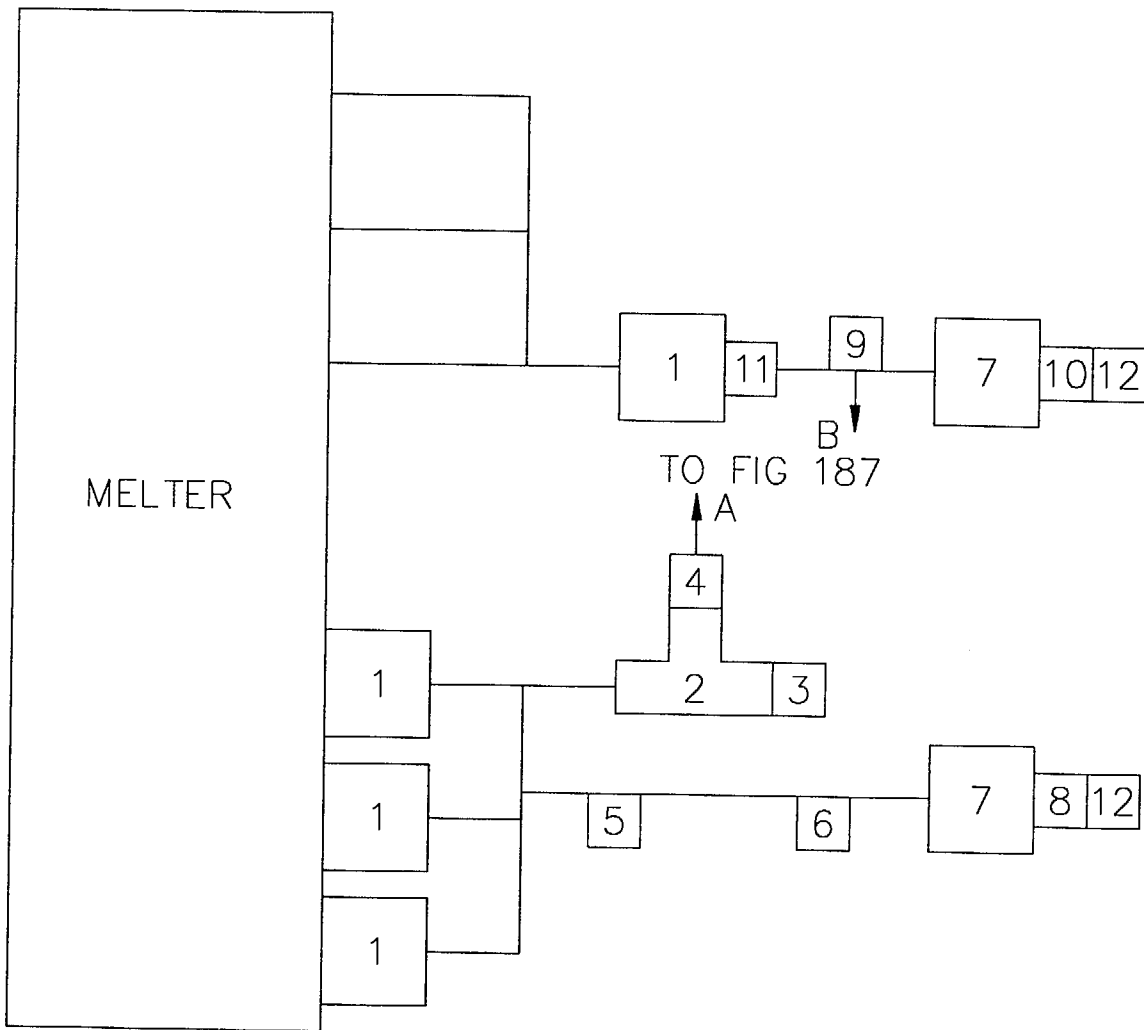
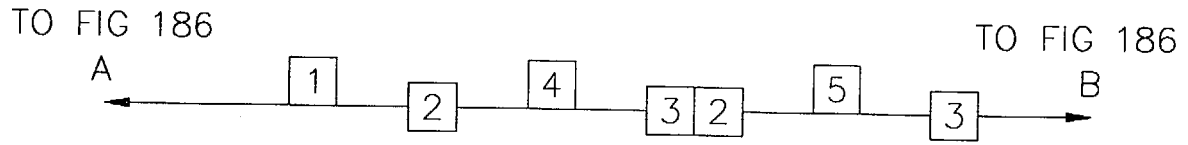


Figure 186 - Dedrummer/Melter Heating Oil Piping

**FIGURE 187  
OIL JACKETING LINES, DEDRUMMER/MELTER**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-452-25		OIL JACKETING LINES, DEDRUMMER/MELTER	Fig 187	
187-1	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEMALE SWIVEL		1
187-2	1	H2 2021-12-12S	01276	ADAPTER 3/4" NPT MALE - 3/4" JIC MALE		2
187-3	1	COMMERCIAL		STREET ELBOW 3/4" NPT X 90°		2
187-4	1	COMMERCIAL		JACKETED PIPE ASSEMBLY		1
187-5	1	COMMERCIAL		FLEXIBLE STAINLESS STEEL ARMOUR HOSE 3/4" ENDS 3/4" NPT MALE - 3/4" JIC FEMALE SWIVEL		





*Figure 187 - Oil Jacketing Lines, Dedrummer/Melter*

**FIGURE 188  
DRUMFEED HYDRAULIC SYSTEM**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-64		DRUMFEED HYDRAULIC SYSTEM	Fig 188	
188-1	1	H2 2066-8-6S	01276	3/8" ORB MALE - 1/2" NPT FEMALE SWIVEL		2
188-2	1	H2 2068-8-6S	01276	3/8" ORB MALE - 1/2" NPT FEM. SWIVEL X 90 DEG		2
188-3	1	H2 2047-8-8S	01276	1/2" NPT MALE - 1/2" NPT FEM. SWIVEL X 90 DEG		3
188-4	1	H2 2045-8-8S	01276	1/2" NPT MALE - 1/2" NPT FEMALE SWIVEL		1
188-5	1	H2 FD73-1002-08-10	01276	1/2" NPTF MALE COUPLING TIP		1
188-6	1	H2 5601-8-10	01276	1/2" NPTF FEMALE COUPLING SOCKET		1
188-7	1	9' 1/2"X1/2" NPT	COMM.	HYDRAULIC HOSE		1
188-8	1	8'-6" 1/2"X1/2" NPT	COMM.	HYDRAULIC HOSE		1
188-9	1	6'-3" 1/2"X1/2" NPT	COMM.	1/2" HYDRAULIC HOSE ASSEMBLY 1/2" NPT MALE ENDS		1
188-10	1	10'-9" 1/2"X1/2" NPT	COMM.	1/2" HYDRAULIC HOSE ASSEMBLY 1/2" NPT MALE ENDS		1
188-11	1	H2 90-983-00	3ABO3	CONTROL VALVE		1
188-12	1	H2 03-950-26	3ABO3	HYDRAULIC CYLINDER 4" BORE X 54" STROKE	Fig 75	1
188-13	1	H2 5657-10	01276	CAP		1
188-14	1	H2 5659-10	01276	PLUG		1

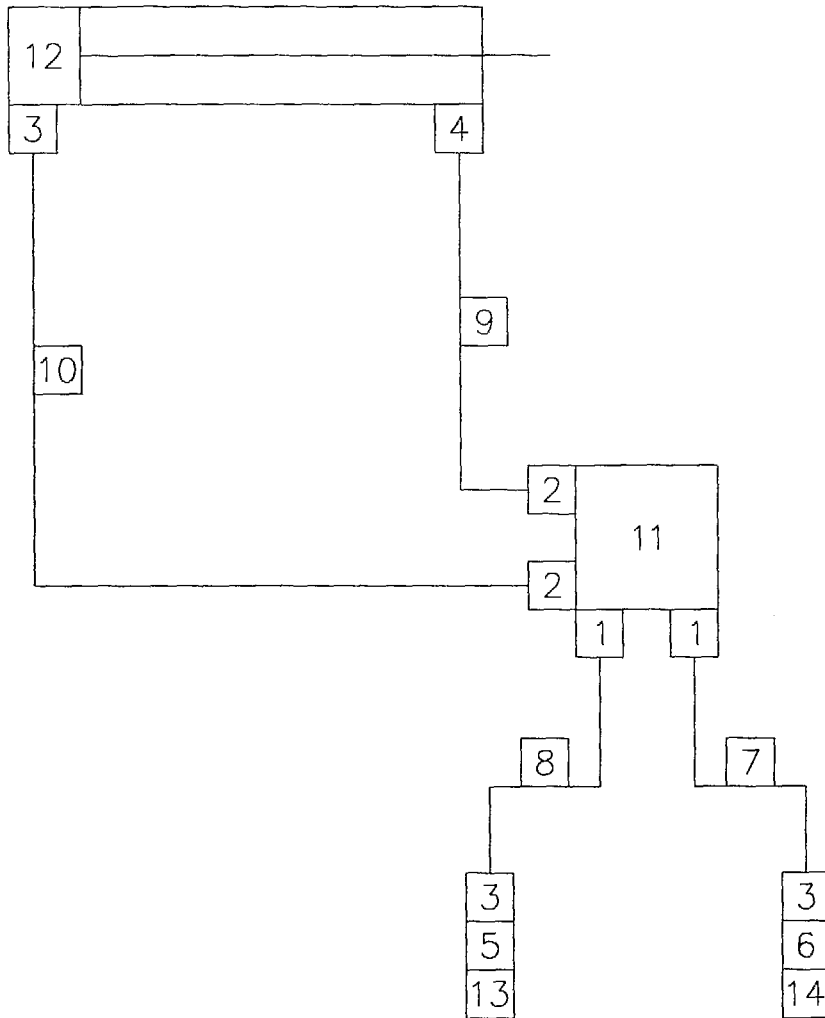


Figure 188 - Drum Feed Hydraulic System

**FIGURE 189  
ELECTRICAL CONTROLS**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASHY.
	0	61-450-21		ELECTRICAL CONTROLS	Fig 189	
189-1	1	61-450-23	3ABO3	PUSH BUTTON	Fig 190	1
189-2	1	61-450-24	3ABO3	POWER RECEPTACLE	Fig 191	1
189-3	1	61-450-25	3ABO3	CONTROL RECEPTACLE	Fig 192	1
189-4	1	CLASS 8989	09710	MOTOR CONTROL CENTRE	Fig C8	1
189-5	1	E4 FZ7P	72805	TRANSFORMER 15 KVA		1
189-6	1	ADP	0WXW3	BLENDING CONTROLS	Fig C15	1
189-7	1	61-450-27	3ABO3	PROGRAMMABLE CONTROLLER	Fig 128	1
189-8	1	61-450-28	31934	BURNER CONTROLS	Fig C1	1
189-10	1	61-450-30	3ABO3	ENVIRONMENTAL CONTROL UNIT	Fig 197	1
189-11	1	COMMERCIAL		CONTROL HOUSING 110 VOLT		1
189-12	1	61-450-32	3ABO3	VARIABLE FREQUENCY DRIVES	Fig 80	1
189-16	1	E4 10-987-42	3ABO3	DIGITAL WEIGH INDICATOR		1
189-17	1	E4 10-987-43	3ABO3	POWER SUPPLY CONVERTER		1

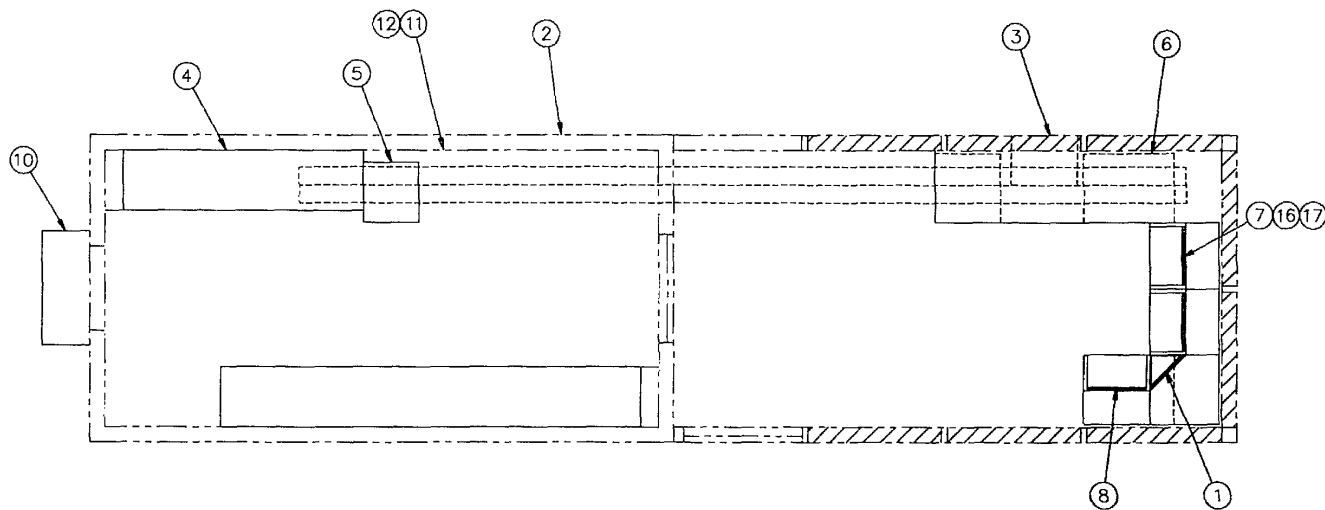


Figure 189 - Electrical Controls

**FIGURE 190  
PUSH BUTTON**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-23		PUSH BUTTON	Fig 190	
190-1	1	E4 ZB2BC4	09710	TELEMECANIQUE PUSH BUTTON		1
190-2	1	E4 ZB2BL4	09710	TELEMECANIQUE PUSH BUTTON		1
190-3	1	E4 ZB2W87354	09710	TELEMECANIQUE PUSH BUTTON		13
190-4	1	E4 ZB2BW34	09710	TELEMECANIQUE PUSH BUTTON		1
190-5	1	E4 ZB2B03	09710	TELEMECANIQUE PILOT LIGHT HEAD		7
190-6	1	E4 ZB2BV05	09710	TELEMECANIQUE PILOT LIGHT HEAD		11
190-7	1	E4 ZB2BV04	09710	TELEMECANIQUE PILOT LIGHT HEAD		6
190-8	1	E4 ZB2BD3	09710	TELEMECANIQUE SELECTOR		4
190-9	1	E4 ZB2BD2	09710	TELEMECANIQUE SELECTOR		4
190-10	1	E4 ZB2BJ8	09710	TELEMECANIQUE SELECTOR		1
190-11	1	E4 ZB2BK133	09710	TELEMECANIQUE SELECTOR		5
190-12	1	E4 ZB2BK123	09710	TELEMECANIQUE SELECTOR		2
190-13	1	E4 ZB2BK124	09710	TELEMECANIQUE SELECTOR		1
190-14	1	E4 ZB2BZ105	09710	TELEMECANIQUE CONTACT ASSEMBLY		2
190-15	1	E4 ZB2BW065	09710	TELEMECANIQUE CONTACT ASSEMBLY		14
190-16	1	E4 ZB2BV6	09710	TELEMECANIQUE CONTACT ASSEMBLY		25
190-17	1	E4 ZB2BZ103	09710	TELEMECANIQUE CONTACT ASSEMBLY		6
190-18	1	E4 ZB2BZ101	09710	TELEMECANIQUE CONTACT ASSEMBLY		6
190-19	1	E4 ZB2BW061	09710	TELEMECANIQUE CONTACT ASSEMBLY		12
190-20	1	E4 ZB2BD8	09710	TELEMECANIQUE SELECTOR		1
190-21	1	E4 ZB2BW33	09710	TELEMECANIQUE PUSH BUTTON		6

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
190-22	1	E4 ZB2BL2	09710	TELEMECANIQUE PUSH BUTTON		3
190-23	1	E4 ZB2-BH7	09710	TELEMECANIQUE PUSH BUTTON		1
190-24	1	E4 ZB2-BV01	09710	TELEMECANIQUE PILOT LIGHT HEAD		1
190-25	1	E4 DL1CE130	09710	BULB		56
190-26	1	E4 ZB2BG2	09710	TELEMECANIQUE KEY SWITCH		1
190-27	1	E4 251-200-LSXS	0WXW0	YCA METER 0-20MA INPUT 0-100% DISPLAY		5
190-28	1	E4 ZB2BK126	09710	TELEMECANIQUE SELECTOR		1
190-29	1	E4 251-240-XSPZAAK	0WXW0	YCA METER AC 0-4.65 INPUT 150% DISPLAY		3
190-30	1	E4 251-244-PZSJ	0WXW0	YCA METER 0-150 VAC INPUT 0-600 V DISPLAY		2
190-31	1	E4 251-244-ANAN	0WXW0	YCA METER 120 VAC INPUT 55-65 HZ DISPLAY		2
190-32	1	E4 73JA	12697	CLAROSTAT J3JA 1K10TURN POTENTIOMETER		5
190-33	1	E4 73JA	12697	CLAROSTAT J3JA 2K10TURN POTENTIOMETER		1
190-34	1	E4 K3TLTB11	61964	OMRON TEMP DISPLAY		2
190-35	1	E4 PDT053	0V4X4	GRIFFIN DIFF. PRESS. METER		1
190-36	1	E4 3004-0-00A-1-00	31934	UDC METER SUPPLIED WITH HAUCK		2
190-37	1	E4 3003-0-01A-1-00	31934	UDC METER SUPPLIED WITH HAUCK		1
190-38	1	E4 37-0002-0000	31934	API MODEL 302 SUPPLIED WITH HAUCK		1
190-39	1	E4 K3TL-TA11-C	61964	TEMP METER		2
190-40	1	E4 RB	73138	BECKMAN DIAL 10T LOCKING		6
190-41	1	E4 ZB2BE101	09710	TELEMECANIQUE CONTACT		2
190-42	1	E4 ZB2BW063	09710	TELEMECANIQUE CONTACT		5
190-43	1	E4 ZB2BZ102	09710	TELEMECANIQUE CONTACT		2
190-44	1	E4 ZB2BE102	09710	TELEMECANIQUE CONTACT		1

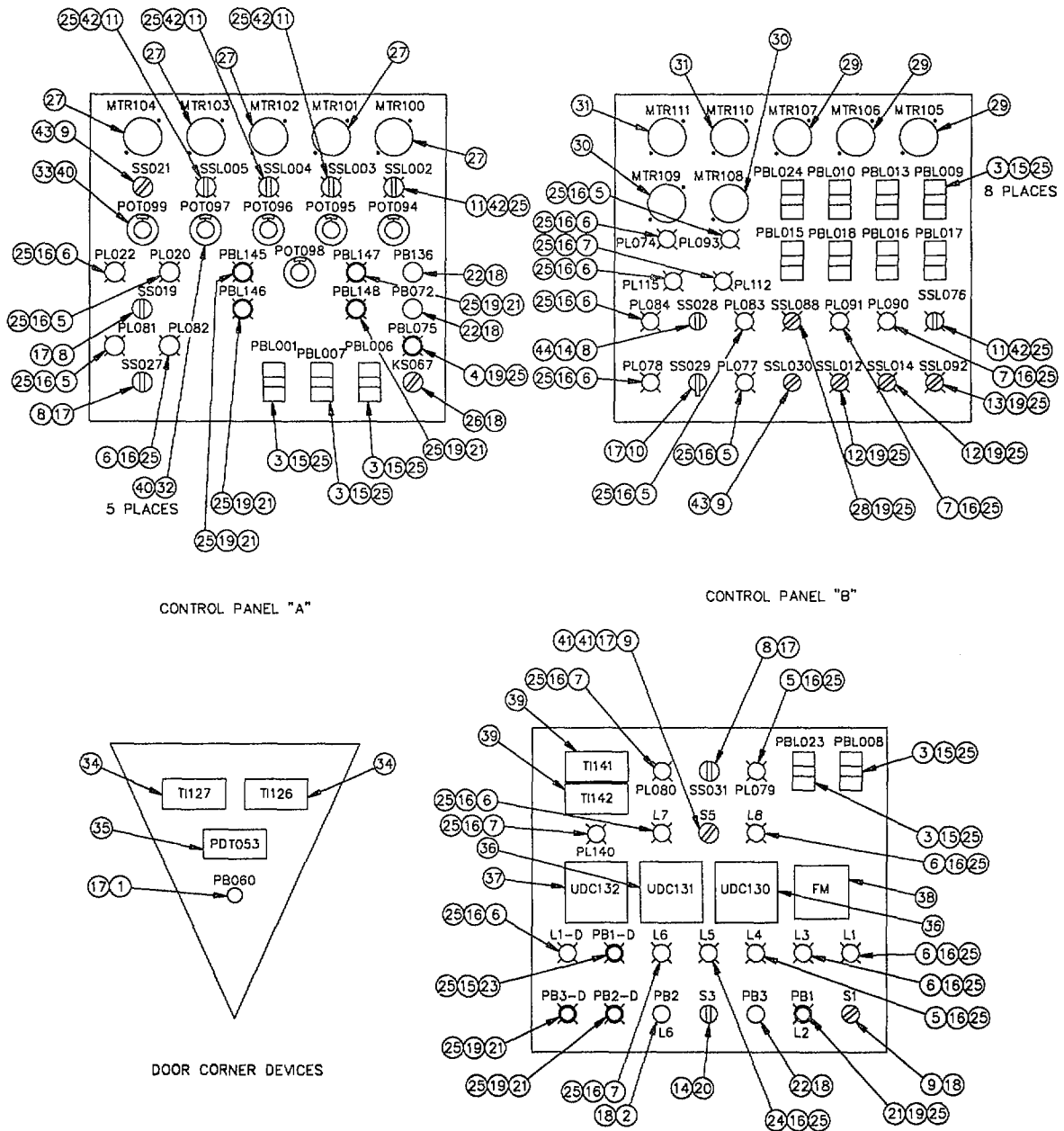


Figure 190 - Push Button



**FIGURE 191  
POWER RECEPTACLE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-24		POWER RECEPTACLE	Fig 191	
191-1	1	E4 420R7W	74545	HUBBEL RECEPTACLE		24
191-2	1	E4 430R7W	74545	HUBBEL RECEPTACLE		2
191-3	1	E4 460R7W	74545	HUBBEL RECEPTACLE		2
191-4	1	E4 4100R7W	74545	HUBBEL RECEPTACLE		2
191-5	1	E4 330R6W	74545	HUBBEL RECEPTACLE		1
191-6	1	E4 X-362-07	3ABO3	STUD ASSEMBLY		4
191-7	1	E4 61-960-02	3ABO3	BACK BARRIER		1
191-8	1	COMMERCIAL		SINGLE RECEPTACLE 15A, 125V, 2 POLE, 3 WIRE GROUNDING LOCKING DEVICE		1
191-9	1	COMMERCIAL		DUPLEX RECEPTACLE 15A, 125V STRAIGHT BLADE		1
191-10	1	COMMERCIAL		GROUND STUD 1/2"		1
191-11	1	COMMERCIAL		WEATHER PROOF SINGLE RECEPTACLE COVER		1
191-12	1	COMMERCIAL		WEATHER PROOF DUPLEX RECEPTACLE COVER		1

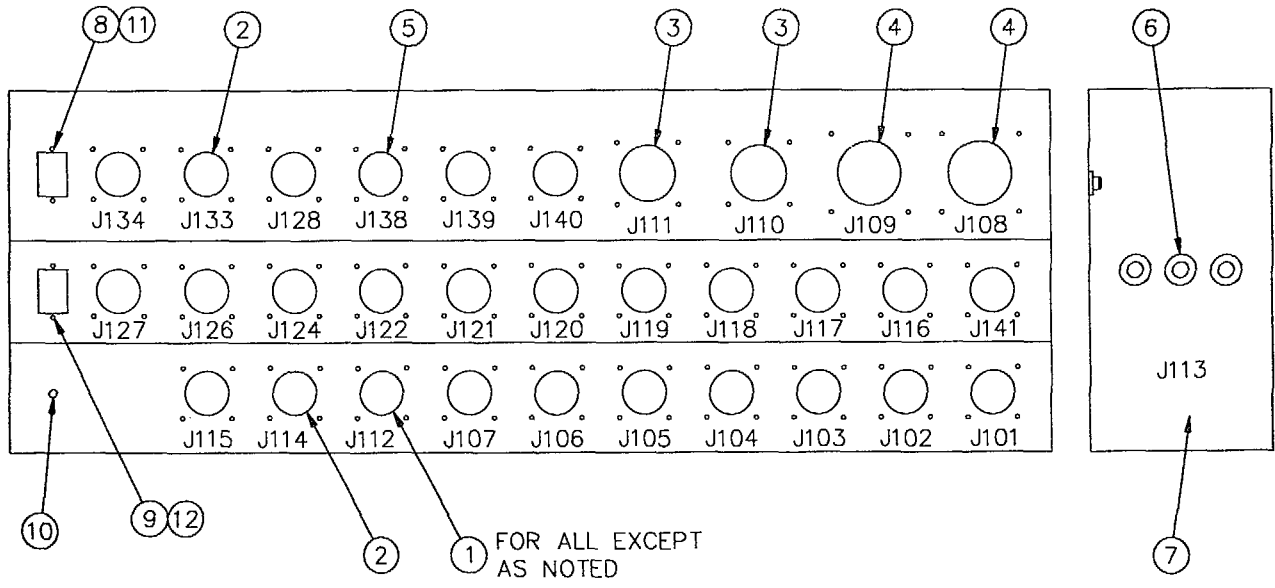


Figure 191 - Power Receptacle

**FIGURE 192  
CONTROL RECEPTACLE**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	61-450-25		CONTROL RECEPTACLE	Fig 192	
192-1	1	E4 9732-13S	77820	AMPHENOL BOX INSERT		1
192-2	1	E4 9732-13S-W	77820	AMPHENOL BOX INSERT		1
192-3	1	E4 9732-13S-X	77820	AMPHENOL BOX INSERT		1
192-4	1	E4 9718-20S	77820	AMPHENOL BOX INSERT		1
192-5	1	E4 9718-20S-W	77820	AMPHENOL BOX INSERT		1
192-6	1	E4 9718-12S	77820	AMPHENOL BOX INSERT		1
192-7	1	E4 9718-12S-W	77820	AMPHENOL BOX INSERT		1
192-8	1	E4 9714S-7S	77820	AMPHENOL BOX INSERT		1
192-9	1	E4 9714S-7S-W	77820	AMPHENOL BOX INSERT		1
192-10	1	E4 9714S-7S-X	77820	AMPHENOL BOX INSERT		1
192-11	1	E4 9718-8S-W	77820	AMPHENOL BOX INSERT		1
192-12	1	E4 9718-8S-Z	77820	AMPHENOL BOX INSERT		1
192-13	1	E4 97-3102A-32	77820	AMPHENOL BOX SHELL		3
192-14	1	E4 97-3102A-18	77820	AMPHENOL BOX SHELL		7
192-15	1	E4 97-3102A-14S	77820	AMPHENOL BOX SHELL		3
192-16	1	E4 9760-32	77820	AMPHENOL BOX COVER		3
192-17	1	E4 9760-18	77820	AMPHENOL BOX COVER		7
192-18	1	E4 9760-14	77820	AMPHENOL BOX COVER		3
192-19	1	E4 9718-8S	77820	AMPHENOL BOX INSERT		1

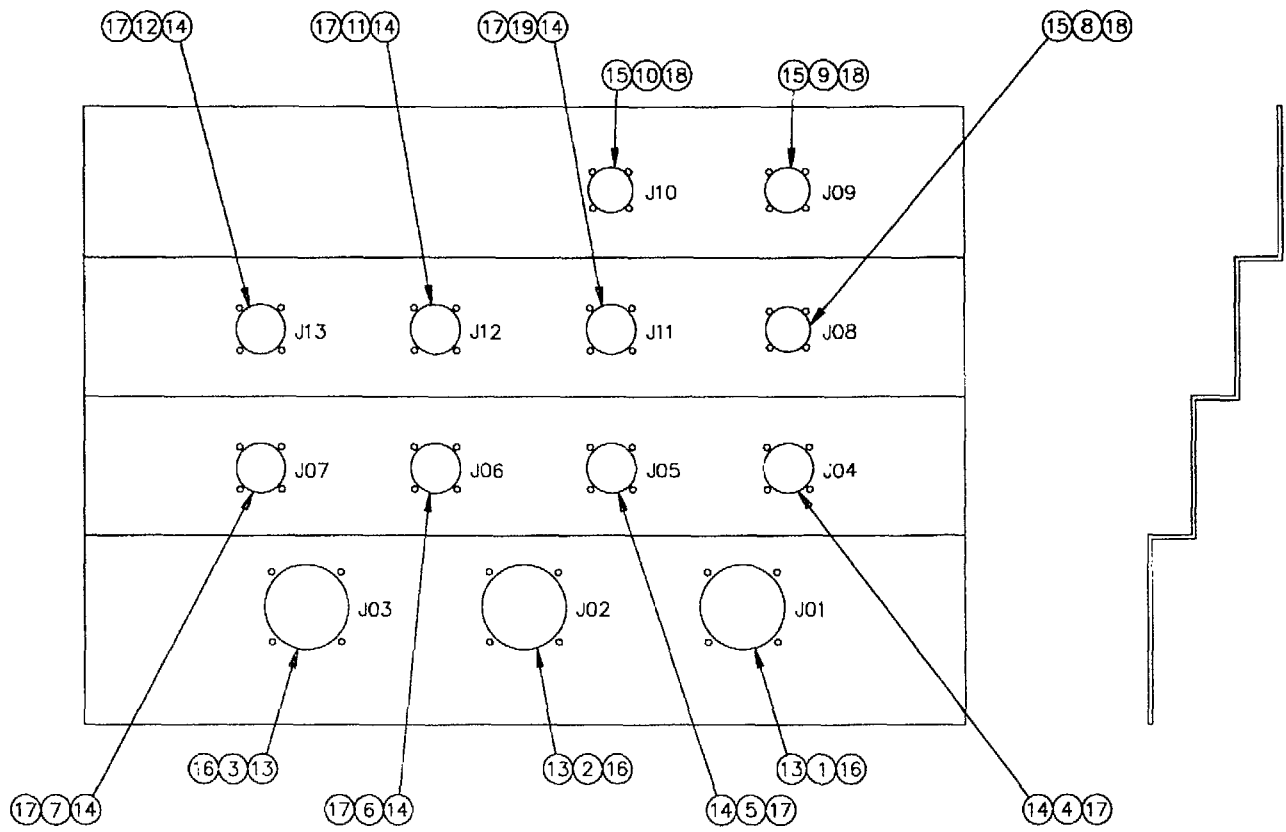


Figure 192 - Control Receptacle

**FIGURE 193  
HOT OIL HEATER**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	51-451-49		HOT OIL HEATER	Fig 193	
193-1	1	AP CEI 2000A	0WXU7	HOT OIL HEATER	Fig C7	1
193-A5	1	COMMERCIAL		BOLT 1/2" X 2 1/2" LG, NUT, LW, BW		8

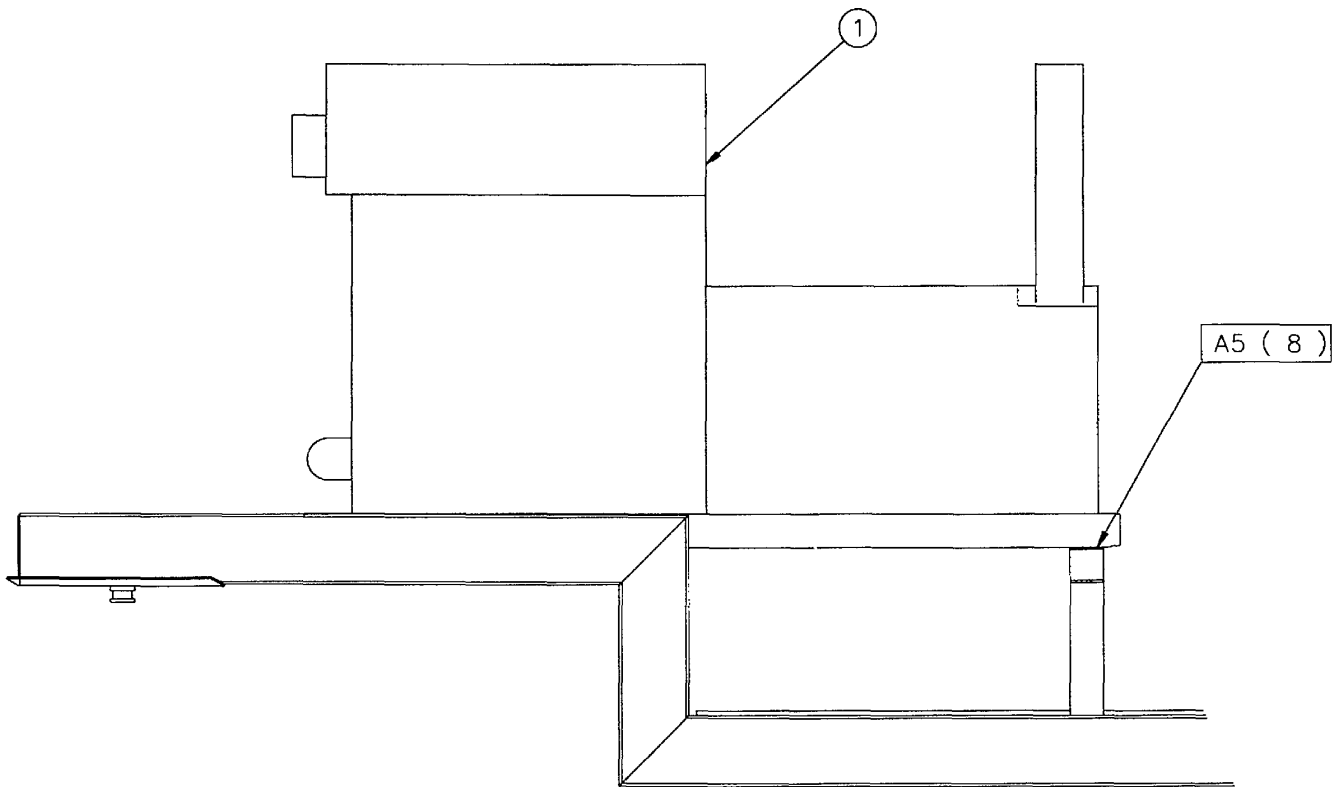


Figure 193 - Hot Oil Heater

**FIGURE 194  
LANDING JACK**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	52-450-19		LANDING JACK	Fig 194	1
194-1	1	C2 LG75-4A-113	74410	LANDING GEAR SET		1
194-3	1	MP 52-400-60	3ABO3	BRACE		2
194-4	1	MP 52-200-09	3ABO3	BRACE		2
194-A6	1	COMMERCIAL		BOLT 5/8" X 1 1/2" LG, NUT, LW		16
194-B6	1	COMMERCIAL		BOLT 5/8" X 1 1/2" LG, NUT, LW		8

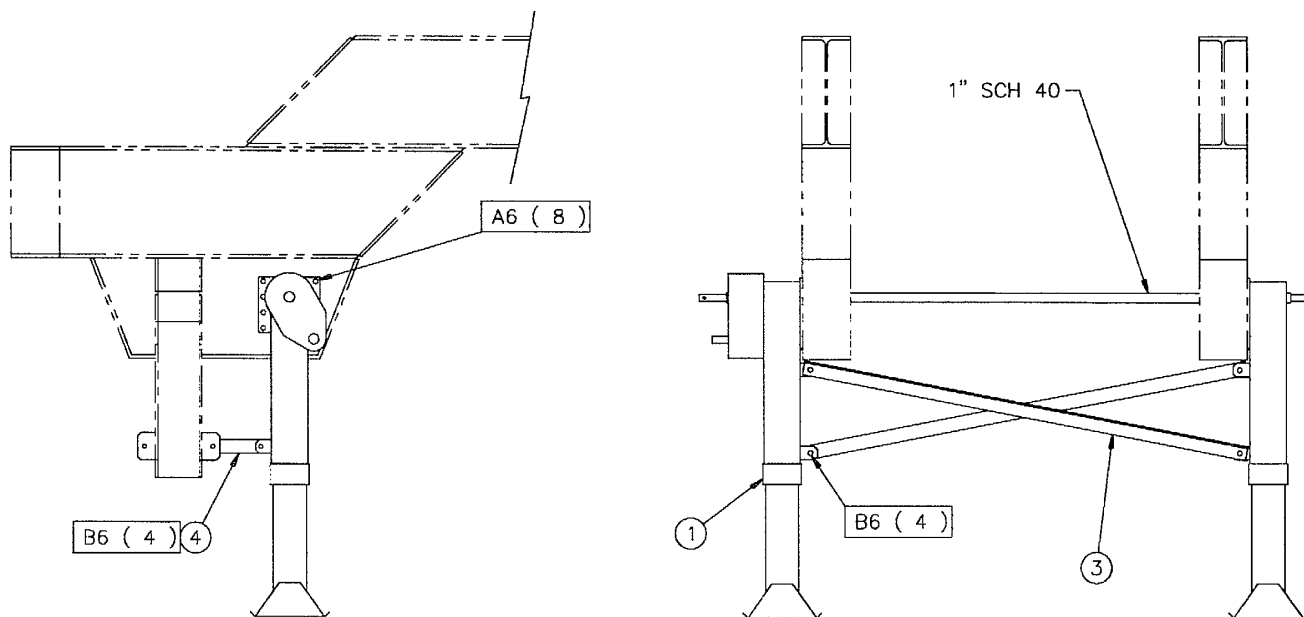
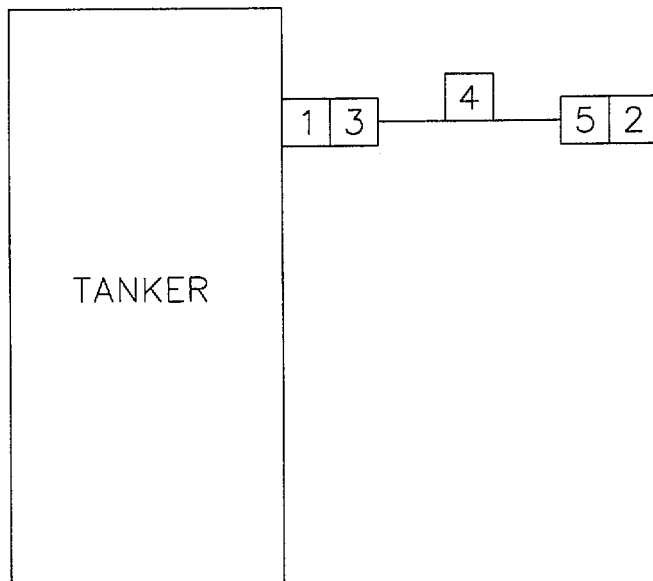


Figure 194 - Landing Jack



**FIGURE 195  
HOT OIL HEATER FUEL PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	51-451-54		HOT OIL HEATER FUEL PIPING	Fig 195	
195-1	1	COMMERCIAL		ELBOW 3/8" NPT MALE - 3/8" JIC MALE X 90°		1
195-2	1	COMMERCIAL		END CAP 3/8" JIC		1
195-3	1	COMMERCIAL		ADAPTER 3/8" JIC FEMALE - 1/2" NPT FEMALE		1
195-4	1	COMMERCIAL		HOSE C\W 1/2" NPT MALE-1/2" JIC FEMALE SWIVEL		1
195-5	1	COMMERCIAL		ADAPTER 1/2" JIC MALE - 3/8" JIC MALE		1



*Figure 195 - Hot Oil Heater Fuel Piping*

**FIGURE 196  
PRESSURE TRANSMITTER PIPING**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	40-450-40		PRESSURE TRANSMITTER PIPING	Fig 196	
196-1	1	COMMERCIAL		PIPE 1" NPT X 5 5/8" LG		1
196-2	1	COMMERCIAL		ELBOW 1" NPT X 90°		3
196-3	1	COMMERCIAL		PIPE 1" NPT X 51 1/2" LG		1
196-4	1	COMMERCIAL		PIPE 1" NPT X 21 3/4" LG		1
196-5	1	COMMERCIAL		BUSHING 1" - 1/4" NPT		1
196-6	1	COMMERCIAL		MALE TO MALE 1/4" CLEAR HOSE X 6 1/4" LG		1
196-7	1	COMMERCIAL		TEE 1/4" NPT		2
196-8	1	COMMERCIAL		PIPE 1/4" NPT X 9 1/8" LG		1
196-9	1	COMMERCIAL		BUSHING 1/4" - 1/8" NPT		1
196-10	1	COMMERCIAL		PLUG 1/8" NPT		1
196-11	1	COMMERCIAL		PIPE NIPPLE 1/4" NPT X 1 7/8" LG		1
196-12	1	COMMERCIAL		SHUT OFF COCK 1/4"		1

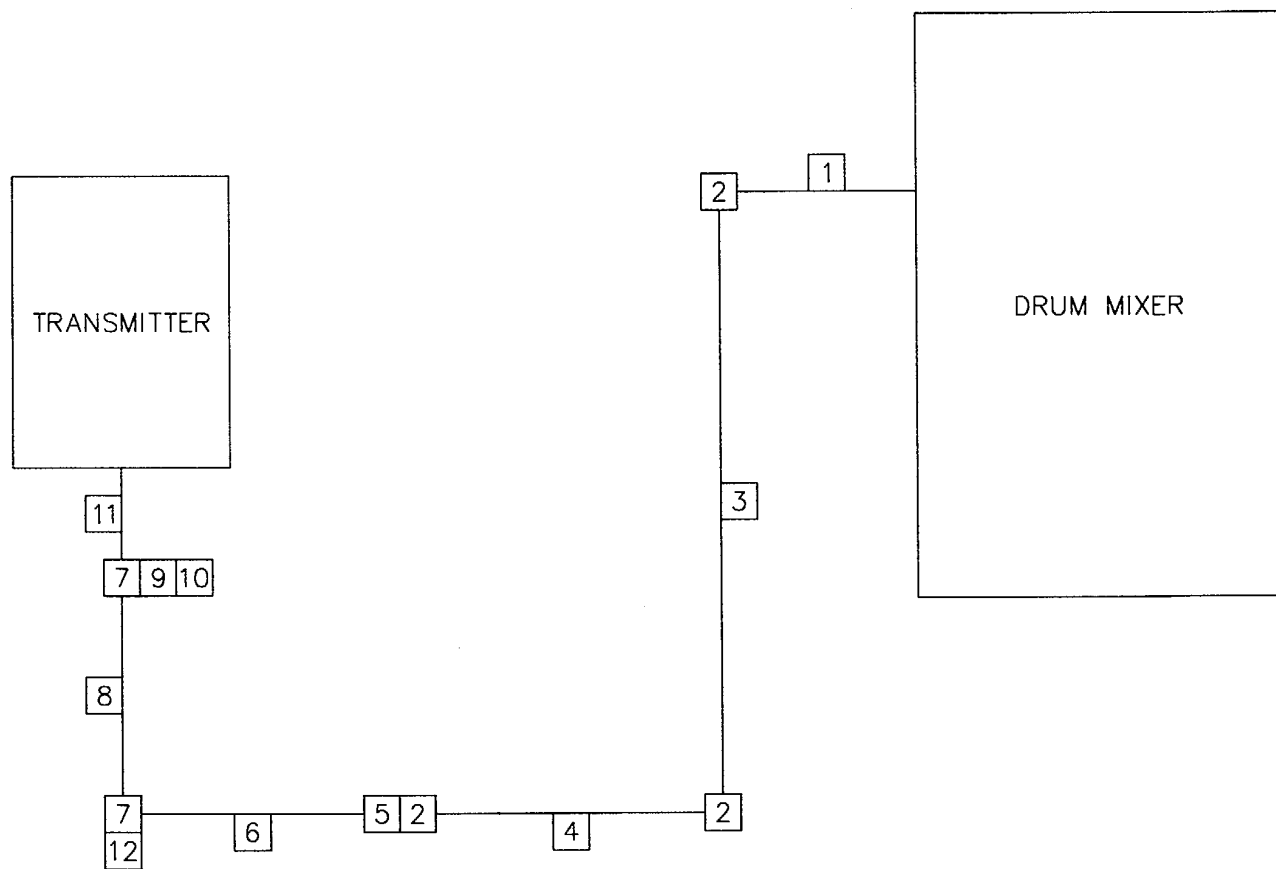
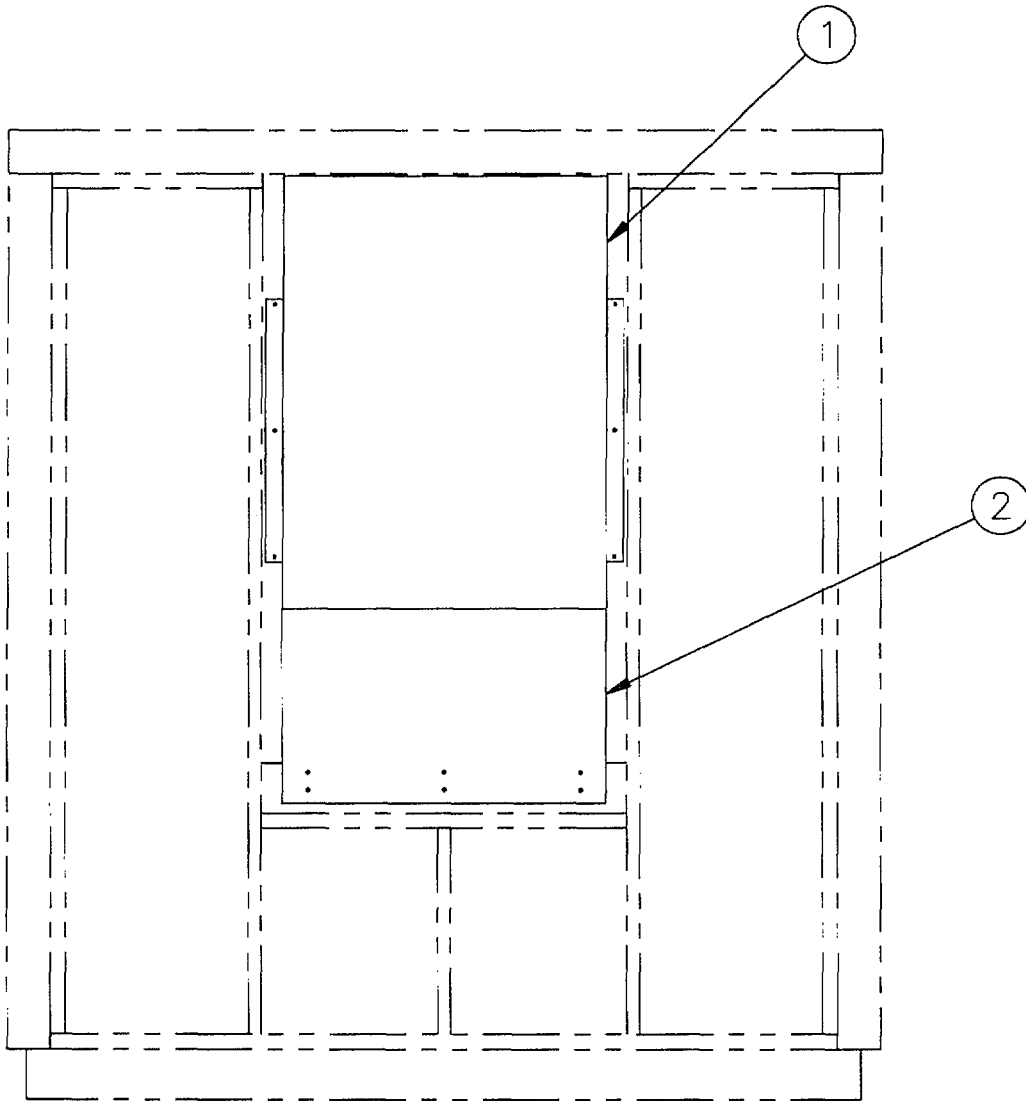


Figure 196 - Pressure Transmitter Piping

**FIGURE 197  
ENVIRONMENTAL CONTROL UNIT**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	61-450-30		ENVIRONMENTAL CONTROL UNIT	Fig 197	
197-1	1	AP AWYB030KB10	31093	NORDYNE WALL MOUNTED HEAT/COOL UNIT	Fig C10	1
197-2	1	MPG 1-100-09	3AB03	COVER PLATE		1



*Figure 197 - Environmental Control Unit*

**FIGURE 198  
DISCHARGE CHUTE ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	52-450-28		DISCHARGE CHUTE ASSEMBLY	Fig 198	
198-1	1	MP 52-400-77	3ABO3	CHUTE MAIN SECTION		1
198-2	1	MP 52-400-78	3ABO3	CHUTE DISCHARGE SECTION		1
198-3	1	MP 52-400-79	3ABO3	CHUTE FEED SECTION		1
198-4	1	MP 52-400-80	3ABO3	PIN		2
198-A7	1	COMMERCIAL		BOLT 3/4" X 1 1/4" LG, NUT		4
198-B0	1	COMMERCIAL		HITCH PIN 3/16" X 3/4"		2

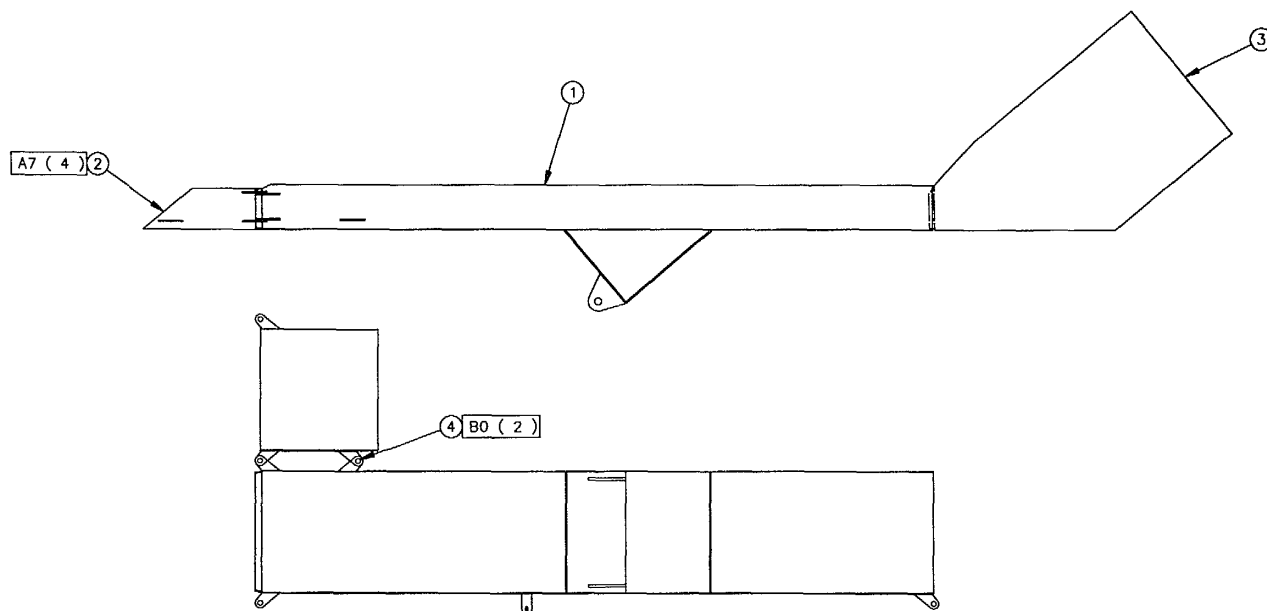


Figure 198 - Discharge Chute Assembly



**FIGURE 199  
DISCHARGE CHUTE**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	52-450-29		DISCHARGE CHUTE	Fig 199	1
199-1	1	52-450-28	3ABO3	DISCHARGE CHUTE ASSEMBLY	Fig 198	1
199-2	1	03-400-54	3ABO3	PIN		2
199-A0	1	COMMERCIAL		HITCH PIN 3/16" X 3/4"		2

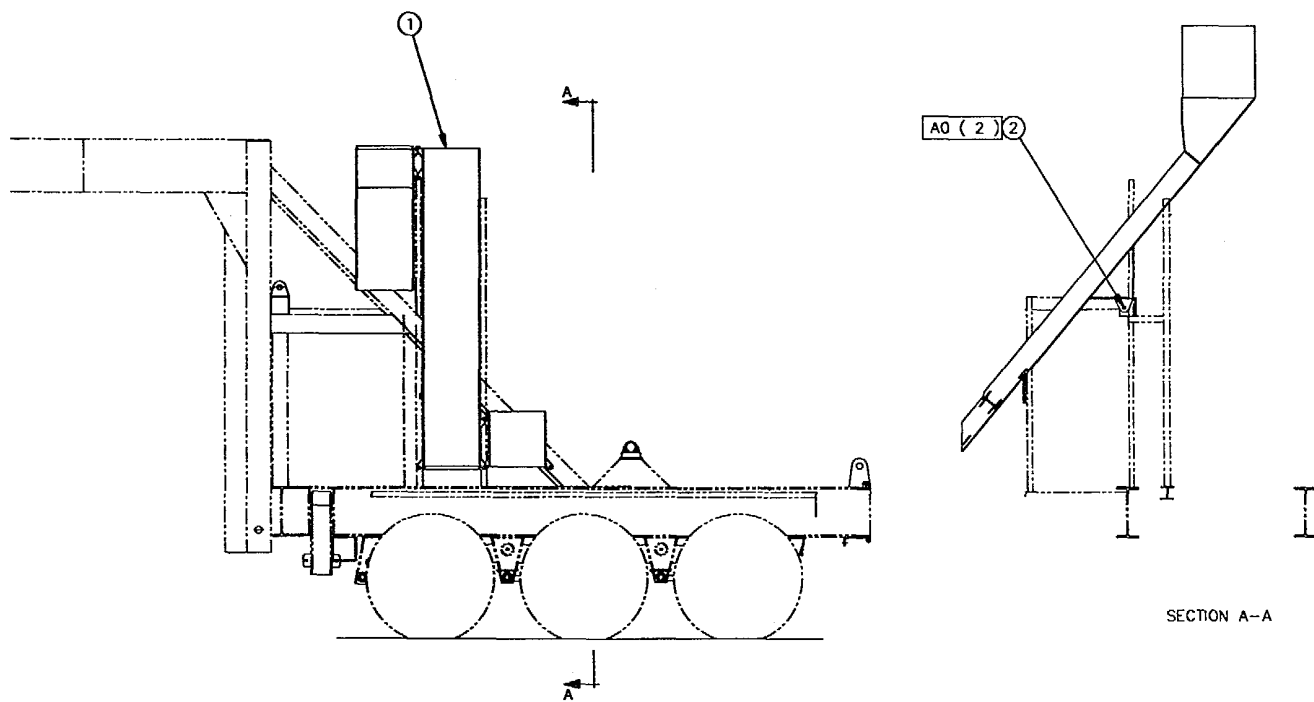


Figure 199 - Discharge Chute

**FIGURE 200  
SURGE BIN HYDRAULICS**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-26		SURGE BIN HYDRAULICS	Fig 200	
200-1	1	H2 24503-LZA	9G527	HYDRAULIC PUMP		1
200-2	1	E3 KM220	36232	30HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
200-4	1	W3 9E	8D709	COUPLING		1
200-5	1	W3 9S X 1 7/8	8D709	BUSHING		1
200-6	1	W3 9S X 7/8	8D709	BUSHING		1
200-7	1	52-450-33	3ABO3	HYDRAULIC FLUID STORAGE TANK		1
200-8	1	52-450-36	3ABO3	HYDRAULIC PIPING SCHEMATIC	Fig 42	1
200-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		6
200-B5	1	COMMERCIAL		BOLT 1/2" X 1 3/4" LG, NUT, LW		2
200-C5	1	COMMERCIAL		BOLT 1/2" X 1 1/2" LG, NUT, LW, FW (2)		4

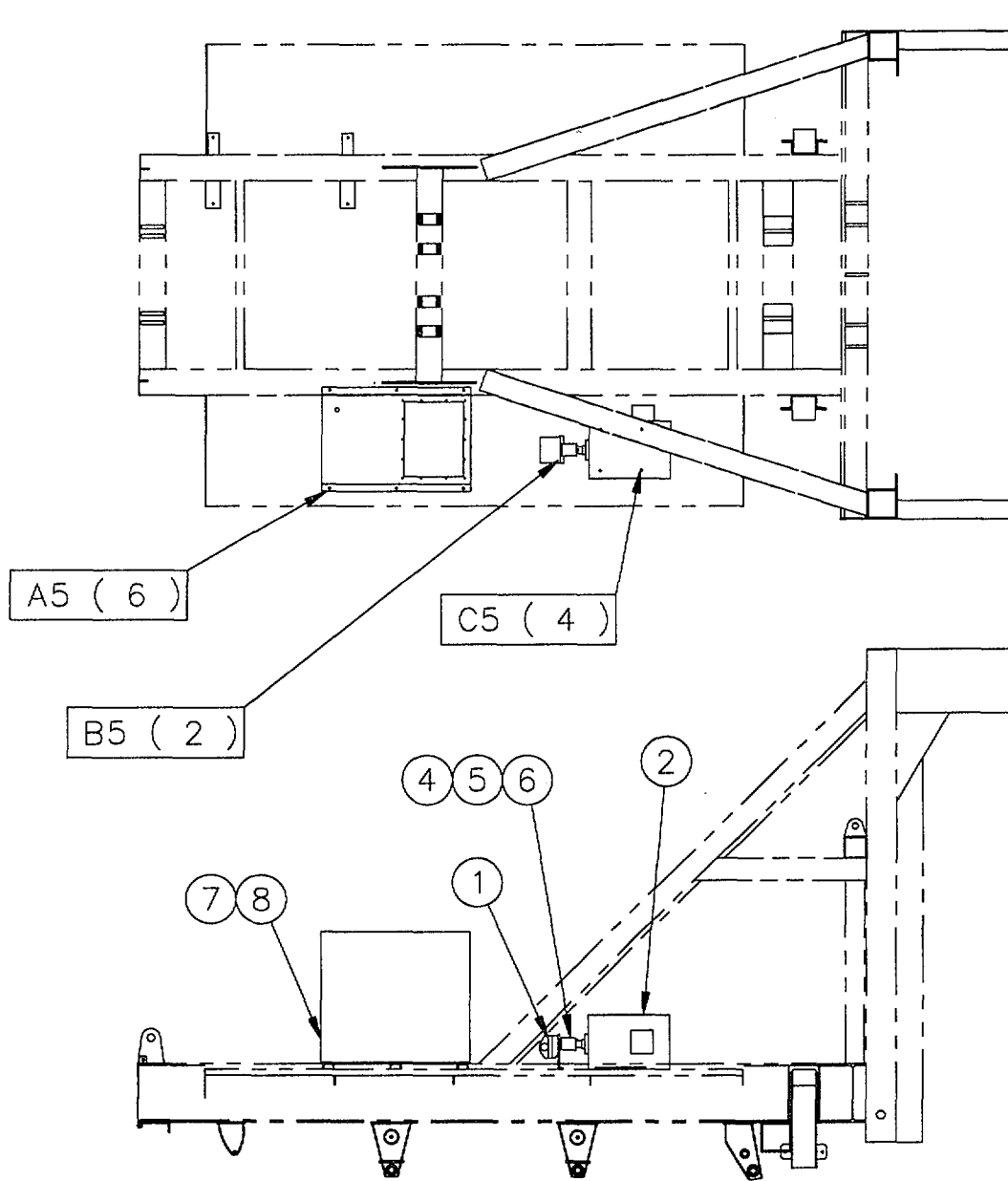


Figure 200 - Surge Bin Hydraulics

**FIGURE 201  
COMPRESSOR**

FIGURE & INDEX NUMBER	LEVEL	PART NUMBER	CAGE CODE	DESCRIPTION	BREAK DOWN FIGURE	UNITS PER ASSY.
	0	52-450-27		COMPRESSOR	Fig 201	
201-2	1	AP 44AC10280H	09N810	SANBORN COMPRESSOR	Fig C17	1
201-3	1	E3 KM156	36232	10HP/1800/460V/3/60 TEFC ELECTRIC MOTOR		1
201-4	1	52-450-37	3ABO3	PNEUMATIC SYSTEM	Fig 138	1
201-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		4

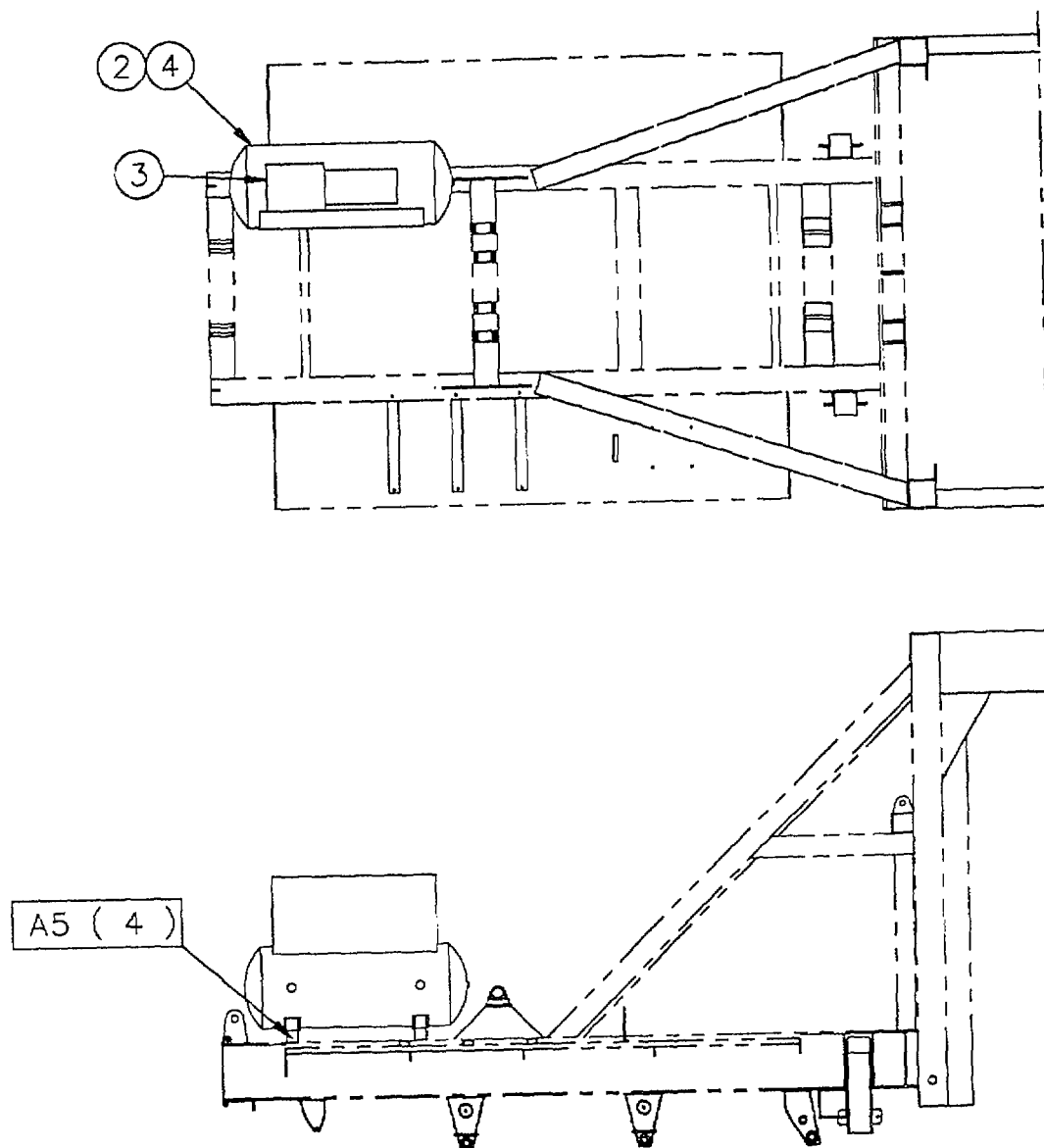


Figure 201 - Compressor

**FIGURE 202  
PLATFORM AND LADDERS**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	52-450-30	3ABO3	PLATFORM AND LADDERS	Fig 202	
202-3	1	MP 52-400-74	3ABO3	LADDER FOLD SECTION		1
202-4	1	MP 52-400-88	3ABO3	LADDER FOLD SECTION		2
202-5	1	MP 52-400-76	3ABO3	LADDER FOLD SECTION		1
202-A5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NL		8
202-B5	1	COMMERCIAL		BOLT 1/2" X 1 1/4" LG, NUT, LW		8

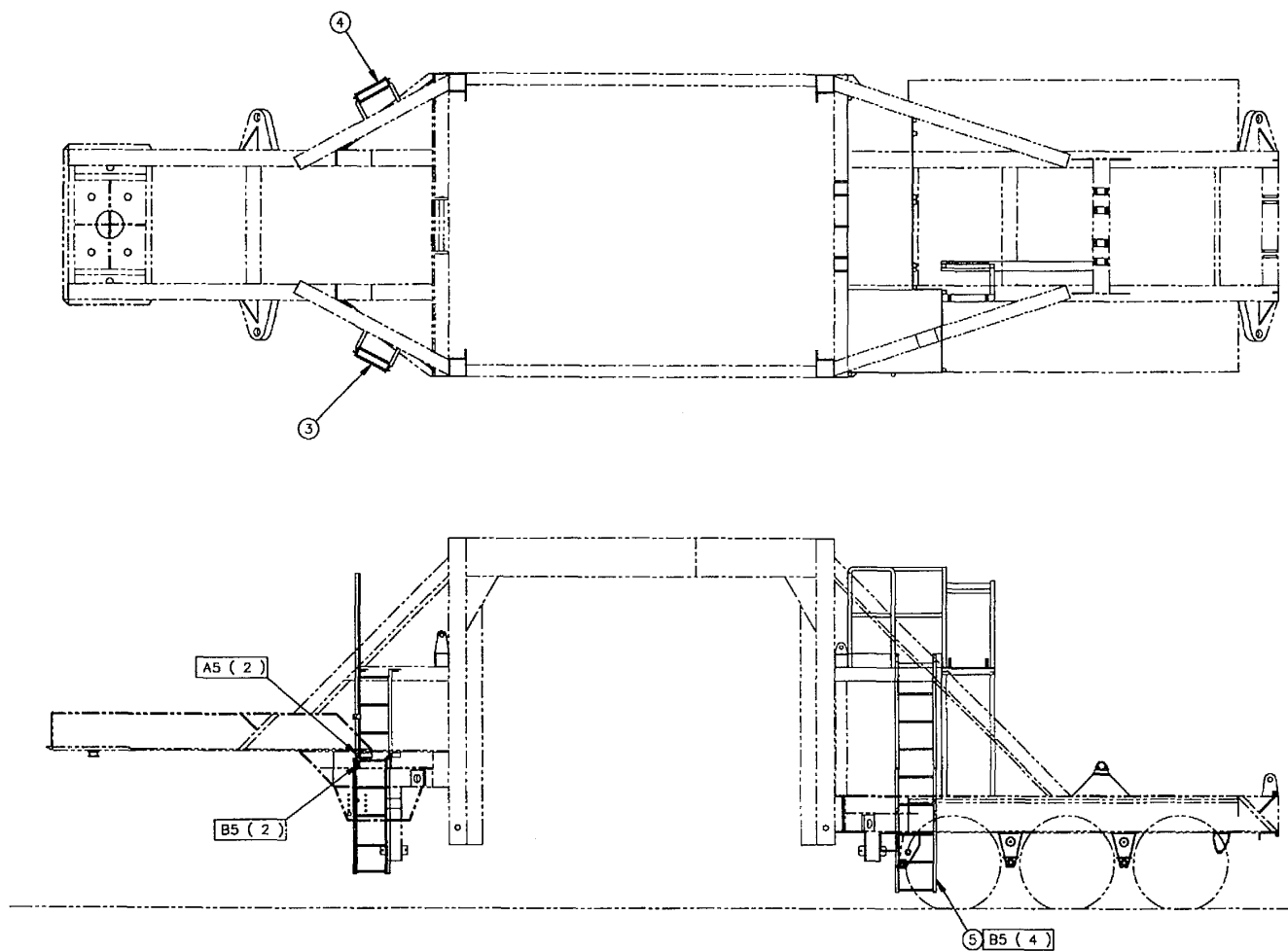
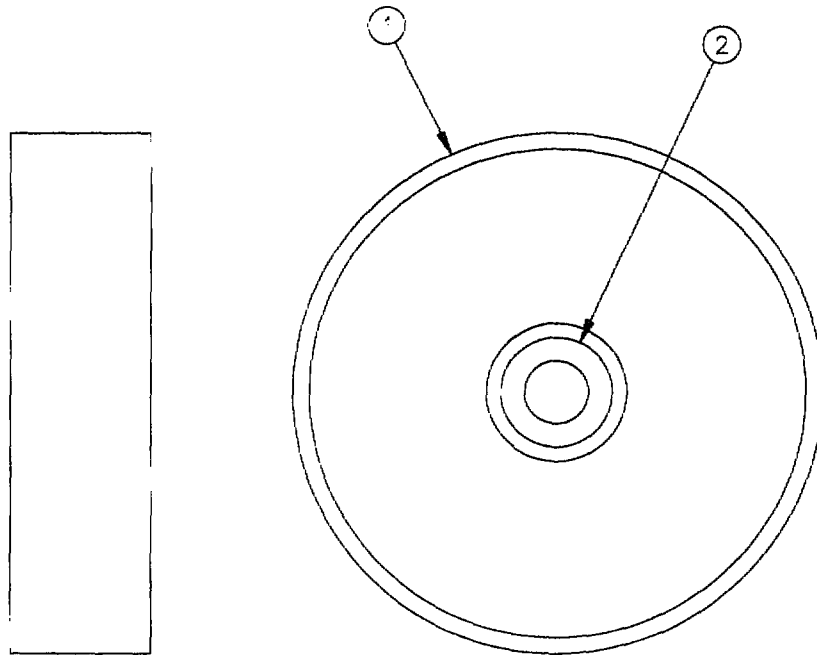


Figure 202 - Platform and Ladders



**FIGURE 203**  
**SLAT CONVEYOR IDLER ASSEMBLY**

<b>FIGURE &amp; INDEX NUMBER</b>	<b>LEVEL</b>	<b>PART NUMBER</b>	<b>CAGE CODE</b>	<b>DESCRIPTION</b>	<b>BREAK DOWN FIGURE</b>	<b>UNITS PER ASSY.</b>
	0	52-450-10		SLAT CONVEYOR IDLER ASSEMBLY	Fig 203	10
203-1	1	MP 52-400-40	3ABO3	SLAT CONVEYOR IDLER WELDMENT		10
203-2	1	D3 117173	71956	2517 X 1 15/16" BUSHING		10



*Figure 203 - Slat Conveyor Idler Assembly*

Cable #	HP	Motor FLA	CL # (Std)	Cage Code	Plant #
CBL 101	10 HP	12.72	11.45 A B 19.5	09710	AP 51-450-10
CBL 102	3 HP	4.1 A	n/a	09710	AP 51-450-10
CBL 103	3 HP	4.1 A	n/a	09710	AP 51-450-10
CBL 104	3 HP	4.1 A	n/a	09710	AP 51-450-10
CBL 105	3 HP	4.1 A	n/a	09710	AP 51-450-10
CBL 106	10 HP	12.72 A	11.45 A B 19.5	09710	AP 51-450-11
CBL 107	5 HP	6.6 A	5.94 A B 9.10	09710	AP 51-450-11
CBL 108	50 HP	54 A	48.6 A CC 81.5	09710	AP 51-450-12
CBL 109	50 HP	60.6 A	54.54 A CC 87.7	09710	AP 51-450-12
CBL 110	40 HP	48 A	43.2 A CC 68.5	09710	AP 52-450-06
CBL 111	30 HP	36.6 A	32.94 A CC 50.1	09710	AP 52-450-06
CBL 112	10 HP	12.72 A	11.45 A B 19.5	09710	AP 52-450-06
CBL 113	100 HP	124 A	111.6 A CC 167.0	09710	AP 51-450-07
CBL 114	15 HP	19.5 A	17.55 A B 28.0	09710	AP 51-450-07
CBL 115	1 HP	1.66 A	1.49 A B 2.10	09710	AP 51-450-07
CBL 116	1 HP	1.66 A	1.49 A B 2.10	09710	AP 51-450-07
CBL 117	1 HP	1.66 A	1.49 A B 2.10	09710	AP 51-450-07
CBL 118	1 HP	1.66 A	1.49 A B 2.10	09710	AP 51-450-07
CBL 119	3 HP	4.1 A	3.69 A B 4.85	09710	AP 51-450-07
CBL 120	1.5 HP	2.5 A	2.25 A B 3.30	09710	AP 51-450-07
CBL 121	2 HP	3.1 A	2.79 A B 4.15	09710	AP 51-450-07
CBL 122	TOTAL 10HP	12.72 A	n/a	09710	AP 51-450-13
CBL 124	5 HP	6.6 A	5.94 A B 9.10	09710	AP 51-450-06
CBL 126	5 HP	6.6 A	5.94 A B 9.10	09710	AP 51-450-13
CBL 127	1 HP	1.66 A	1.49 A B 2.10	09710	AP 51-450-06
CBL 128	6.0kw 240v	25.0 A	n/a	09710	AP 52-450-06

Figure 204 - MCC-Overload Heaters

Cable #	HP	Motor FLA	OL # (Std)	Cage Code	Plant #
CBL 133	10 HP	12.72 A	11.45 A B 19.5	09710	AP 90-451-47
CBL 134	20 HP	25.4 A	21.96 A B 36.0	09710	AP 51-450-07
CBL 138	1 HP	1.1 A	1.0 A B 1.45	09710	AP 51-450-10
CBL 139	1 HP	1.1 A	1.0 A B 1.45	09710	AP 51-450-10
CBL 140	CBL 141	1.1 A	1.0 A B 1.45	09710	AP 51-450-10
CBL 141	1 HP	1.1 A	1.0 A B 1.45	09710	AP 51-450-10

*Figure 204 - MCC-Overload Heaters*

**Figure 205**  
**ELECTRICAL CABLES**

The electrical cables listed in Figure 205 are supplied by the following:

<b>Supplier</b>	<b>Cage Code</b>
Beldon (name appears in "Type" column)	2W733
Anixter (name appears in "Type" column)	82879
Teck (name appears in "Type" column)	82879
All other electrical cables	82879

Cable #	Cond/Size	Type	Length	From	To	Plant #
CBL 001	24C #16	SO Cord	180 Ft	Control House Plug Box	JB02 (Baghouse)	AP 51-450-07
CBL 001 A	#18	TEW Str		Control Panel	Control House Plug Box	AP 51-450-09
CBL 002	24C #16	SO Cord	100 Ft	Control House Plug Box	Burner	AP 51-450-12
CBL 002 A	#18	TEW Str		Burner Control Panel	Control House Plug Box	AP 51-450-09
CBL 003	24C #16	SO Cord	150 Ft	Control House Plug Box	JB04 (Surge Bin)	AP 52-450-06
CBL 003 A	#18	TEW Str		Control Panel	Control House Plug Box	AP 51-450-09
CBL 004	4C #16 Sh	SO Cord	135 Ft	Control House Plug Box	Asphalt Meter	AP 51-450-13
CBL 004 A	4C #18 Sh	Belden	10 Ft	Systems Panel	Control House Plug Box	AP 51-450-09
CBL 005	4C #16 Sh	SO Cord	135 Ft	Control House Plug Box	Agg. Scale	AP 51-450-11
CBL 005 A	4C #18 Sh	Belden	10 Ft	Systems Panel	Control House Plug Box	AP 51-450-09
CBL 006	6C #16	SO Cord	135 Ft	Control House Plug Box	Agg.Bin Switches	AP 51-450-10
CBL 006 A	#18	TEW Str		Control Panel	Control House Plug Box	AP 51-450-09
CBL 007	6C #16	SO Cord	135 Ft	Control House Plug Box	JB03 (Divert Valve)	AP 51-450-13
CBL 007 A	#18	TEW Str		Control Panel	Control House Plug Box	AP 51-450-09
CBL 009	#16 JX	JX Str, Belden 83951	125 Ft	Control House Plug Box	Mix. Temp. Sensor	AP 51-450-12
CBL 008 A	#16 JX	JX Str, Belden 83951	15 Ft	Hauck Burner Ctrl Pnl	Control House Plug Box	AP 51-450-09
CBL 009	#16 JX	JX Str, Belden 83951	160 Ft	Control House Plug Box	Exh.Temp. Sensor	AP 51-450-12
CBL 009 A	#16 JX	JX Str, Belden 83951	15 Ft	Hauck Burner Ctrl Pnl	Control House Plug Box	AP 51-450-09
CBL 010	#16 JX	JX Str, Belden 83951	210 Ft	Control House Plug Box	Bag House Temp Sensor	AP 51-450-07
CBL 010 A	#16 JX	JX Str, Belden 83951	20 Ft	Baghouse Temp Dsply	Control House Plug Box	AP 51-450-09
CBL 011	6C #16Sh	SO, Carol #C-1606	175 Ft	Control House Plug Box	JB05 (Oil Heater)	AP 51-450-13
CBL 011 A	3C #18 Sh	Belden	20 Ft	Control House Plug Box	Oil Htr Inlet Temp Display	AP 51-450-09
CBL 011 B	3C #18 Sh	Belden	20 Ft	Control House Plug Box	Oil Htr Outlet Temp Display	AP 51-450-09
CBL 012	6C #16Sh	SO, Carol #C-1606	100 Ft	Control House Plug Box	Scanner J Box	AP 51-450-12
CBL 012 A	8C #18Sh	Belden	15 Ft	Hauck Burner Ctrl Pnl	Control House Plug Box	AP 51-450-09
CBL 013	4C #16Sh	SO, Anixter# 4DS-1604-450V	115 Ft	Control House Plug Box	Asphalt Weigh Tank	AP 90-451-47

Figure 205 - Electrical Cables

Cable #	Cond/Size	Type	Length	From	To	Plant #
CBL 013 A	4C #18 Sh	Belden	10 Ft	Scale Readout	Control House Plug Box	AP 51-450-09
CBL 020	2C #14	Teck	15 Ft	JB01 (Agg Bins)	LS 039 (Bin "4" Limit Sw)	AP 51-450-10
CBL 021	2C #14	Teck	15 Ft	JB01 (Agg Bins)	LS 038 (Bin "3" Limit Sw)	AP 51-450-10
CBL 022	2C #14	Teck	30 Ft	JB01 (Agg Bins)	LS 037 (Bin "2" Limit Sw)	AP 51-450-10
CBL 023	2C #14	Teck	30 Ft	JB01 (Agg Bins)	LS 036 (Bin "1" Limit Sw)	AP 51-450-10
CBL 024	8C #18 Sh	Anixter # 316-035-1808	30 Ft	TB 5 & TB 1	VS Drive "Bin 1" M2	AP 51-450-09
CBL 024 A	4C #18 Sh	Belden	10 Ft	Systems Panel	TB 5	AP 51-450-09
CBL 025	8C #18 Sh	Anixter # 316-035-1808	31 Ft	TB 5 & TB 1	VS Drive "Bin 2" M3	AP 51-450-09
CBL 025 A	4C #18 Sh	Belden	10 Ft	Systems Panel	TB 5	AP 51-450-09
CBL 026	8C #18 Sh	Anixter # 316-035-1808	33 Ft	TB 5 & TB 1	VS Drive "Bin 3" M4	AP 51-450-09
CBL 026 A	4C #18 Sh	Belden	10 Ft	Systems Panel	TB 5	AP 51-450-09
CBL 027	8C #18 Sh	Anixter # 316-035-1808	35 Ft	TB 5 & TB 1	VS Drive "Bin 4" M5	AP 51-450-09
CBL 027 A	4C #18 Sh	Belden	10 Ft	Systems Panel	TB 5	AP 51-450-09
CBL 028	8C #18 Sh	Anixter # 316-035-1808	36 Ft	TB 5 & TB 1	VS Drive A/C Pump M26	AP 51-450-09
CBL 028 A	3C #18 Sh	Belden	10 Ft	Systems Panel	TB 5	AP 51-450-09
CBL 029	2C #14	Teck	10 Ft	JB02 (Baghouse)	OLS 42 (Oil Level Sw)	AP 51-450-07
CBL 030	2C #14	Teck	10 Ft	JB02 (Baghouse)	PS 045 (Comp Ctrl Press)	AP 51-450-07
CBL 031	2C #14	Teck	8 Ft	JB02 (Baghouse)	PS 043 (Low Air Alm Press)	AP 51-450-07
CBL 032	2C #14	Teck	10 Ft	JB02 (Baghouse)	LS 034 (Fire Shutter Closed)	AP 51-450-07
CBL 033	2C #14	Teck	10 Ft	JB02 (Baghouse)	SV 052 (Fire Damper Sol.)	AP 51-450-07
CBL 034	3C #14	Teck	90 Ft	JB02 (Baghouse)	DM 113 (Exh Damper Motor)	AP 51-450-07
CBL 035	3C #18	TEW Str, 3/8" LT Flex	5 Ft	JB03 (Divert Valve)	LS 025 (Divert Valve to Drum)	AP 51-450-13
CBL 036	3C #18	TEW Str, 3/8" LT Flex	5 Ft	JB03 (Divert Valve)	LS 026 (Divert Valve ,Divert)	AP 51-450-13

Figure 205 - Electrical Cables

Cable #	Cond/Size	Type	Length	From	To	Plant #
CBL 037	3C #18	TEW Str, 3/8" LT Flex	3 Ft	JB03 (Divert Valve)	SV 051 (Divert Valve Sol.)	AP 51-450-13
CBL 038		Belden		Master Ratio Controller	Potentiometers	AP 51-450-09
CBL 039	2C #14	Teck		JB04 (Surge Bin)	LS 032 (Batcher Proved Op.)	AP 52-450-06
CBL 040	2C #14	Teck		JB04 (Surge Bin)	LS 033 (Batcher Proved Op.)	AP 52-450-06
CBL 041	3C #14	Teck	20 Ft	JB04 (Surge Bin)	PS 044, 047 Surge Bin JB12	AP 52-450-06
CBL 041A	2C #12	Teck	10 Ft	JB 12 Surge Bin	PS 047 Surge Bin	AP 52-450-06
CBL 041B	2C #14	Teck	12 Ft	JB 12 Surge Bin	PS 044 Surge Bin	AP 52-450-06
CBL 042	10C #14	SO Cord		JB04 (Surge Bin)	JB08 (Surge Bin Hopper)	AP 52-450-06
CBL 043	3C #14	Teck		JB04 (Surge Bin)	BS 041 (Surge Bin Full)	AP 52-450-06
CBL 044	2C #14	Teck		JB02 (Baghouse)	Hauck Burner Exh.Press Sw	AP 51-450-07
CBL 045	3C #14	Teck		JB04 (Surge Bin)	BS 040 (Surge Bin Empty)	AP 52-450-06
CBL 046	2C #18	TEW Str, 3/8" LT Flex		JB04 (Surge Bin)	LS 035B(Surge Bin Gate Clos)	AP 52-450-06
CBL 047	2C #14	Teck		JB04 (Surge Bin)	SV 049 (Disc Gate Sol.)	AP 52-450-06
CBL 048	2C #14	Teck		JB04 (Surge Bin)	SV 050 (Dropout Gate Sol.)	AP 52-450-06
CBL 049	2C #14	Teck		JB04 (Surge Bin)	SV 048 (Batcher Gate Sol.)	AP 52-450-06
CBL 050	10C #14	SO Cord		JB04 (Surge Bin)	JB 07 (Surge Bin Batcher)	AP 52-450-06
CBL 051	2C #18	TEW Str, 3/8" LT Flex		JB05 (Oil Heater)	Oil Heater RTD (Inlet)	AP 51-450-13
CBL 052	2C #18	TEW Str, 3/8" LT Flex		JB05 (Oil Heater)	Oil Heater RTD (Outlet)	AP 51-450-13
CBL 053	2C #18	TEW Str, 3/8" LT Flex		JB06 (Scanner & PT)	PT 116 (Burner Draft Press)	AP 51-450-12
CBL 054	2C #18	TEW Str, 3/8" LT Flex		JB06 (Scanner & PT)	Main Flame Scanner	AP 51-450-12
CBL 055	2C #18	TEW Str, 3/8" LT Flex		JB06 (Scanner & PT)	Pilot Flame Scanner	AP 51-450-12

Figure 205 - Electrical Cables



Cable #	Cond/Size	Type	Length	From	To	Plant #
CBL 056	2C #18	TEW Str, 3/8" LT Flex		JB04 (Surge Bin)	LS035A	AP 52-450-06
CBL 057	2C #12	Teck		JB04 (Surge Bin)	HTR 123	AP 52-450-06
CBL 058	2C #12	Teck		JB04 (Surge Bin)	HTR 124	AP 52-450-06
CBL 059	10C #14	SO Cord		JB04 (Surge Bin)	JB01 Batcher	AP 52-450-06
CBL 060	2C #18	TEW Str	5 Ft	TB 13	Speed Pickup	AP 51-450-11
CBL 061	4C #18 Sh	3/8" LT Flex	10 Ft	TB 13 (Load Cell Amp)	Load Cell	AP 51-450-11
CBL 062		Prewired		TB 14	Temp Sensor 100 Ohm RTD	AP 51-450-10
CBL 063		Prewired		TB 14	Speed Pickup	AP 51-450-13
CBL 064	2C#16 JX	JX Str, Belden 83951	15 Ft	SYSTEMS Control Panel	Hauch Burner Control Panel	AP 51-450-09
CBL 101	4C #10	SO Cord	135 Ft	MCC Plug Box	M1 Gathering Conv	AP 51-450-10
CBL 101 A	(3),#12	R90 Str	3 @ 18 Ft	Starter M1(Gathering Conv)	MCC Plug Box	AP 51-450-09
CBL 102	4C #16	SO Cord	195 Ft	MCC Plug Box	M2 Feeder "Bin 1"	AP 51-450-10
CBL 102 A	(3),#12	R90 Str	3 @ 17 Ft	VS Drive M2 (Feeder "1")	MCC Plug Box	AP 51-450-09
CBL 102 B	(3),#12	R90 Str	3 @ 29 Ft	Disconnect M2 (Feeder "1")	VS Drive M2	AP 51-450-09
CBL 103	4C #16	SO Cord	180 Ft	MCC Plug Box	M3 Feeder "Bin 2"	AP 51-450-10
CBL 103 A	(3),#12	R90 Str	3 @ 17 Ft	VS Drive M3 (Feeder "2")	MCC Plug Box	AP 51-450-09
CBL 103 B	(3),#12	R90 Str	3 @ 29 Ft	Disconnect M3 (Feeder "2")	VS Drive M3	AP 51-450-09
CBL 104	4C #16	SO Cord	165 Ft	MCC Plug Box	M4 Feeder "Bin 3"	AP 51-450-10
CBL 104 A	(3),#12	R90 Str	3 @ 17 Ft	VS Drive M4 (Feeder "3")	MCC Plug Box	AP 51-450-09
CBL 104 B	(3),#12	R90 Str	3 @ 29 Ft	Disconnect M4 (Feeder "3")	VS Drive M4	AP 51-450-09
CBL 105	4C #16	SO Cord	165 Ft	MCC Plug Box	M5 Feeder "Bin 4"	AP 51-450-10
CBL 105 A	(3),#12	R90 Str	3 @ 17 Ft	VS Drive M5 (Feeder "4")	MCC Plug Box	AP 51-450-09
CBL 105 B	(3),#12	R90 Str	3 @ 29 Ft	Disconnect M5 (Feeder "4")	VS Drive M5	AP 51-450-09
CBL 106	4C #10	SO Cord	140 Ft	MCC Plug Box	M6 Feed Conv	AP 51-450-11
CBL 106 A	(3),#12	R90 Str	3 @ 24 Ft	Starter M6 (Charging Conv)	MCC Plug Box	AP 51-450-09

Figure 205 - Electrical Cables

Cable #	Cond/Size	Type	Length	From	To	Plant #
CBL 107	4C #14	SO Cord	100 Ft	MCC Plug Box	M7 Scalping Screen	AP 51-450-11
CBL 107 A	(3),#12	R90 Str	3 @ 28 Ft	Starter M7 (Scalping Screen)	MCC Plug Box	AP 51-450-09
CBL 108	4C # 4	SW Cord	100 Ft	MCC Plug Box	M8 Burner Fan (50 HP)	AP 51-450-12
CBL 108 A	(3),#4	R90 Str	3 @ 12 Ft	Starter M8 (Burner Fan)	MCC Plug Box	AP 51-450-09
CBL 109	4C # 4	SW Cord		MCC Plug Box	M9 Drum Drive	AP 51-450-12
CBL 109 A	(3),#4	R90 Str	3 @ 26 Ft	Starter M9 (Drum Drive)	MCC Plug Box	AP 51-450-09
CBL 110	4C # 4	SW Cord	140 Ft	MCC Plug Box	M10 Hot Mix Conv	AP 52-450-06
CBL 110 A	(3),#6	R90 Str	3 @ 21 Ft	Starter M10 (Hot Mix Conv)	MCC Plug Box	AP 51-450-09
CBL 111	4C # 6	SW Cord	130 Ft	MCC Plug Box	M11 Surge Bin Hydraulic	AP 52-450-06
CBL 111 A	(3),#8	R90 Str	3 @ 26 Ft	Starter M11 (Surge Bin Hyd)	MCC Plug Box	AP 51-450-09
CBL 112	4C #10	SO Cord	130 Ft	MCC Plug Box	M12 Surge Bin Air Comp	AP 52-450-06
CBL 112 A	(3),#12	R90 Str	3 @ 21 Ft	Starter M12 (Surge Air Comp)	MCC Plug Box	AP 51-450-09
CBL 113	4C #3/0	SW Cord	220 Ft	MCC Plug Box	M13 Exhaust Blower	AP 51-450-07
CBL 113 A	(3),#1/0	R90 Str	3 @ 10 Ft	Starter M13 (Exhaust Blower)	MCC Plug Box	AP 51-450-09
CBL 114	4C #8	SO Cord	130 Ft	MCC Plug Box	M14 Baghouse Air Comp	AP 51-450-07
CBL 114 A	(3),#10	R90 Str	3 @ 21 Ft	Starter M14 (Dust C Air Comp)	MCC Plug Box	AP 51-450-09
CBL 115	4C #16	SO Cord	160 Ft	MCC Plug Box	M15 BH Screw "A"	AP 51-450-07
CBL 115 A	(3),#12	R90 Str	3 @ 19 Ft	Starter M15 (BH Screw "A")	MCC Plug Box	AP 51-450-09
CBL 116	4C #16	SO Cord	165 Ft	MCC Plug Box	M16 BH Screw "B"	AP 51-450-07
CBL 116 A	(3),#12	R90 Str	3 @ 16 Ft	Starter M16 (BH Screw "B")	MCC Plug Box	AP 51-450-09
CBL 117	4C #16	SO Cord	165 Ft	MCC Plug Box	M17 BH Screw "C"	AP 51-450-07
CBL 117 A	(3),#12	R90 Str	3 @ 16 Ft	Starter M17 (BH Screw "C")	MCC Plug Box	AP 51-450-09
CBL 118	4C #16	SO Cord	165 Ft	MCC Plug Box	M18 BH Screw "D"	AP 51-450-07
CBL 118 A	(3),#12	R90 Str	3 @ 24 Ft	Starter M18 (BH Screw "D")	MCC Plug Box	AP 51-450-09

Figure 205 - Electrical Cables

Cable #	Cond/Size	Type	Length	From	To	Plant #
CBL 119	4C #16	SO Cord	155 Ft	MCC Plug Box	M19 BH Disc Screw	AP 51-450-07
CBL 119 A	(3),#12	R90 Str	3 @ 19 Ft	Starter M19 (BH Disc Screw)	MCC Plug Box	AP 51-450-09
CBL 120	4C #16	SO Cord	150 Ft	MCC Plug Box	M20 BH Air Lock	AP 51-450-07
CBL 120 A	(3),#12	R90 Str	3 @ 17 Ft	Starter M20 (BH Air Lock)	MCC Plug Box	AP 51-450-09
CBL 121	4C #16	SO Cord	170 Ft	MCC Plug Box	M21 BH Transfer Screw	AP 51-450-07
CBL 121 A	(3),#12	R90 Str	3 @ 20 Ft	Starter M21 (BH Xfer Screw)	MCC Plug Box	AP 51-450-09
CBL 122	4C #10	SO Cord	180 Ft	MCC Plug Box	M22 Oil Heater	AP 51-450-13
CBL 122 A	(3),#10	R90 Str	3 @ 28 Ft	Disconnect M22 (Oil Heater)	MCC Plug Box	AP 51-450-09
CBL 123	3C#12	SO Cord	200 ft	MCC Plug Box	Hoist Receptacle (Drums)	AP 51-450-06
CBL 124	4C #14	SO Cord	190 Ft	MCC Plug Box	M24 Manual Starter	AP 51-450-06
CBL 124 A	(3),#12	R90 Str	3 @ 25 Ft	Disconnect M24	MCC Plug Box	AP 51-450-09
CBL 124 B	3C #14	Teck	10 Ft	M24 Manual Starter	M24 Asphalt Pump	AP 51-450-06
CBL 125				Spare		
CBL 126	4C #14	SO Cord	135 Ft	MCC Plug Box	M26 Metering Pump	AP 51-450-13
CBL 126 A	(3),#12	R90 Str	3 @ 15 Ft	VS Drive M26 (Metering Pump)	MCC Plug Box	AP 51-450-09
CBL 126 B	(3),#12	R90 Str	3 @ 29 Ft	Disconnect M26 (Mtrg Pump)	VS Drive M26	AP 51-450-09
CBL 127	4C #16	SO Cord	160 Ft	MCC Plug Box	M27 Burner Fuel Pump	AP 51-450-06
CBL 127 A	(3),#12	R90 Str	3 @ 20 Ft	Starter M27 (Burnr Fuel Pump)	MCC Plug Box	AP 51-450-09
CBL 128	3C #8	SO Cord	130 Ft	MCC Plug Box	JB04 (Surge Bin)	AP 52-450-06
CBL 128 A	(3) #10	R90 Str	3 @ 30 Ft	Lighting Panel (LP 1)	MCC Plug Box	AP 51-450-09
CBL 129	(3) #2	R90 Str	3 @ 29 Ft	25 KVA Transformer	Lighting Panel (LP1)	AP 51-450-09
CBL 130	(2) #6	R90 Str, 1" Conduit	2 @ 40 Ft	Lighting Panel (LP 1)	ECU (Air Conditioner)	AP 51-450-09
CBL 131	(2) #6	R90 Str	3 @ 28 FT	MCC #2	25 KVA Transformer	AP 51-450-09

Figure 205 - Electrical Cables

Cable #	Cond/Size	Type	Length	From	To	Plant #
CBL 132				Spare		
CBL 133	4C #10	SO Cord	180 Ft	MCC Plug Box(Port.Hyd.Pwr.Pk)	Cord Female Connector	AP 90-451-47
CBL 133 A	(3),#12	R90 Str	3 @ 27 Ft	Disconnect M33	MCC Plug Box	AP 51-450-09
CBL 133 B	3C #12	Teck	6 Ft	M33 Manual Starter	M33 Portable Hyd.Pwr.Pk	AP 90-451-47
CBL 133C	3 #10	R90 Str, 3/4" L.T. Flex	3 @ 5 Ft	Inlet Receptacle	Manual Starter	AP 90-451-47
CBL 134	4C #6	SW Cord	150 Ft	MCC Plug Box	M34 Fines Return Blower	AP 51-450-07
CBL 134 A	(3),#8	R90 Str	3 @ 30 Ft	Starter M34 (Fines Ret. Blower)	MCC Plug Box	AP 51-450-09
CBL 135	3C # 350 MCM	G-GC Cord	75 Ft	Main Genset MCC #2	MCC #2 Main Breaker	AP 51-450-39
CBL 136	3C # 2	G-GC Cord	75 Ft	Auxillary Genset MCC #2	MCC #2 Aux Main Breaker	AP 51-450-39
CBL 137	3C # 350 MCM	G-GC Cord	75 Ft	Main Genset MCC #1	MCC #1 Main Breaker	AP 51-450-39
CBL 138	4C #16	SO Cord	195 Ft	MCC Plug Box	Bin " 1" Vibrator	AP 51-450-10
CBL 138 A	(3),#12	R90 Str	3 @ 30 Ft	Starter M38 Vibrator Bin " 1"	MCC Plug Box	AP 51-450-09
CBL 139	4C #16	SO Cord	180 Ft	MCC Plug Box	Bin " 2" Vibrator	AP 51-450-10
CBL 139 A	(3),#12	R90 Str	3 @ 30 Ft	Starter M39 Vibrator Bin " 2"	MCC Plug Box	AP 51-450-09
CBL 140	4C #16	SO Cord	165 Ft	MCC Plug Box	Bin " 3" Vibrator	AP 51-450-10
CBL 140 A	(3),#12	R90 Str	3 @ 30 Ft	Starter M40 Vibrator Bin " 3"	MCC Plug Box	AP 51-450-09
CBL 141	4C #16	SO Cord	165 Ft	MCC Plug Box	Bin " 4" Vibrator	AP 51-450-10
CBL 141 A	(3),#12	R90 Str	3 @ 30 Ft	Starter M41 Vibrator Bin " 4 "	MCC Plug Box	AP 51-450-09
CBL 142				Spare		
CBL 143				Spare		
CBL 144	19C #18	Anixter #314-023-1819	55 Ft	Control Cabinet	MCC #1	AP 51-450-09
CBL 145	19C #18	Anixter #314-023-1819	55 Ft	Control Cabinet	MCC #1	AP 51-450-09
CBL 146	19C #18	Anixter #314-023-1819	60 Ft	Control Cabinet	MCC #2	AP 51-450-09

Figure 205 - Electrical Cables

Cable #	Cond/Size	Type	Length	From	To	Plant #
CBL 147	19C #18	Anixter #314-023-1819	60 Ft	Control Cabinet	MCC #2	AP 51-450-09
CBL 148	19C #18	Anixter #314-023-1819	45 Ft	VS Drives	MCC #2	AP 51-450-09
CBL 149	6C #18Sh	Belden	55 Ft	Control Cabinet	MCC #1	AP 51-450-09
CBL 150	6C #18Sh	Belden	50 Ft	Control Cabinet	MCC #2	AP 51-450-09
CBL 151	6C #12 & 1C #10	Anixter 4TC-1206-1001A	50 Ft	Control Cabinet	MCC #1 & MCC #2	AP 51-450-09
CBL 152	19C #18	Anixter #314-023-1819	60 Ft	Control Cabinet	MCC #2	AP 51-450-09
CBL 153	2C#16 Sh	Belden	60 Ft	Hauck Burner Panel	Burner Blower Starter	AP 51-450-09
CBL 154	2C#16 Sh	Belden	60 Ft	Hauck Burner Panel	Exhaust Fan Starter	AP 51-450-09
CBL 155				Spare		
CBL 156				Spare		

Figure 205 - Electrical Cables

Additional components for cables 001 - 013A can be found on pages 206 - 8 and 206-- 9

Cable #	Plug #	Cage Code	Receptacles	Cord Caps	Plant #	Cage Code	Part #	Accessories
CBL 001	P 01	77820			AP 51-450-07	59730	2547	1" L.N.
CBL 001 A	J 01	77820			AP 51-450-09			
CBL 002	P 02	77820			AP 51-450-12	59730	2547	1" L.N.
CBL 002 A	J 02	77820			AP 51-450-09			
CBL 003	P 03	77820			AP 52-450-06	59730	2547	1" L.N.
CBL 003 A	J 03	77820			AP 51-450-09			
CBL 004	P 04	77820			AP 51-450-13	59730	2523	1/2" L.N.
CBL 004 A	J 04	77820			AP 51-450-09			
CBL 005	P 05	77820			AP 51-450-11	59730	2523	1/2" L.N.
CBL 005 A	J 05	77820			AP 51-450-09			
CBL 006	P 06	77820			AP 51-450-10	59730	2534	3/4" L.N.
CBL 006 A	J 06	77820			AP 51-450-09			
CBL 007	P 07	77820			AP 51-450-13	59730	2534	3/4" L.N.
CBL 007 A	J 07	77820			AP 51-450-09			
CBL 008	P 08	77820			AP 51-450-12	59730	2520	1/2" L.N.
CBL 008 A	J 08	77820			AP 51-450-09			
CBL 009	P 09	77820			AP 51-450-12	59730	2520	1/2" L.N.
CBL 009 A	J 09	77820			AP 51-450-09			
CBL 010	P 10	77820			AP 51-450-07	59730	2520	1/2" L.N.
CBL 010 A	J 10	77820			AP 51-450-09			
CBL 011	P 11	77820			AP 51-450-13	59730	2522	1/2" L.N.
CBL 011 A	J 11	77820			AP 51-450-09			

Figure 206 - Cable Connectors

Cable #	Plug #	Cage Code	Receptacles	Cord Caps	Plant #	Cage Code	Part #	Accessories
CBL 011 B	J 11				AP 51-450-09			
CBL 012	P 12	77820			AP 51-450-12	59730	2522	1/2" L.N.
CBL 012 A	J 12	77820			AP 51-450-09			
CBL 013	P 13 A	77820			AP 90-451-47			
CBL 013 A	J 13 A	77820			AP 51-450-09			
CBL 020					AP 51-450-10	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 021					AP 51-450-10	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 022					AP 51-450-10	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 023					AP 51-450-10	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 024					AP 51-450-09			
CBL 024 A					AP 51-450-09			
CBL 025					AP 51-450-09			
CBL 025 A					AP 51-450-09			
CBL 026					AP 51-450-09			
CBL 026 A					AP 51-450-09			
CBL 027					AP 51-450-09			
CBL 027 A					AP 51-450-09			
CBL 028					AP 51-450-09			
CBL 028 A					AP 51-450-09			
CBL 029					AP 51-450-07	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 030					AP 51-450-07	59730	(2),ST050-464	(2),59730 5262 Sealing Ring & 1/2" L.N.
CBL 031					AP 51-450-07	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 032					AP 51-450-07	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 033					AP 51-450-07	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 034					AP 51-450-07	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 035					AP 51-450-13	59730	(2), 5331	(1),59730 5262 Sealing Ring & 1/2" L.N.

Figure 206 - Cable Connectors

Cable #	Plug #	Cage Code	Receptacles	Cord Caps	Plant #	Cage Code	Part #	Accessories
CBL 036					AP 51-450-13	59730	(2), 5331	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 037					AP 51-450-13	59730	(2), 5331	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 038					AP 51-450-09			
CBL 039					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 040					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 041					AP 52-450-06	59730	(2),ST050-464	
CBL 041A					AP 52-450-06	59730	(2),ST050-464	
CBL 041B					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 042					AP 52-450-06	59730	(2), 2547	(2),59730 5264 Sealing Ring & 1" L.N.
CBL 043					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 044					AP 51-450-07	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 045					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 046					AP 52-450-06	59730	(2), 5331	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 047					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 048					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 049					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 050					AP 52-450-06	59730	(2), 2547	(2),59730 5264 Sealing Ring & 1" L.N.
CBL 051					AP 51-450-13	59730	(2), 5331	(1),59730 5262 Sealing Ring
CBL 052					AP 51-450-13	59730	(2), 5331	(1),59730 5262 Sealing Ring
CBL 053					AP 51-450-12	59730	(2), 5331	(2),59730 5262 Sealing Ring
CBL 054					AP 51-450-12	59730	(2), 5331	(2),59730 5262 Sealing Ring
CBL 055					AP 51-450-12	59730	(2), 5331	(2),59730 5262 Sealing Ring
CBL 056					AP 52-450-06	59730	(2), 5331	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 057					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 058					AP 52-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 059					AP 52-450-06	59730	2546	(1),59730 5304 Sealing Ring & 1" L.N.

Figure 206 - Cable Connectors



Cable #	Plug #	Cage Code	Receptacles	Cord Caps	Plant #	Cage Code	Part #	Accessories
CBL 060					AP 51-450-11	59730	(2), 5331	(1),59730 5262 Sealing Ring
CBL 061					AP 51-450-11	59730	(2), 5331	(1),59730 5262 Sealing Ring
CBL 062					AP 51-450-13			
CBL 063					AP 51-450-13			
CBL 064					AP 51-450-09			
CBL 101	P 101	74545		420P7W	AP 51-450-10	59730	2545	1" L.N.
CBL 101 A	J 101	74545	420R7W		AP 51-450-09			
CBL 102	P 102	74545		420P7W	AP 51-450-10	59730	2532	3/4" L.N.
CBL 102 A	J 102	74545	420R7W		AP 51-450-09			
CBL 102 B					AP 51-450-09			
CBL 103	P 103	74545		420P7W	AP 51-450-10	59730	2532	3/4" L.N.
CBL 103 A	J 103	74545	420R7W		AP 51-450-09			
CBL 103 B					AP 51-450-09			
CBL 104	P 104	74545		420P7W	AP 51-450-10	59730	2532	3/4" L.N.
CBL 104 A	J 104	74545	420R7W		AP 51-450-09			
CBL 104 B					AP 51-450-09			
CBL 105	P 105	74545		420P7W	AP 51-450-10	59730	2532	3/4" L.N.
CBL 105 A	J 105	74545	420R7W		AP 51-450-09			
CBL 105 B					AP 51-450-09			
CBL 106	P 106	74545		420P7W	AP 51-450-11	59730	2545	1" L.N.
CBL 106 A	J 106	74545	420R7W		AP 51-450-09			
CBL 107	P 107	74545		420P7W	AP 51-450-11	59730	2534	3/4" L.N.
CBL 107 A	J 107	74545	420R7W		AP 51-450-09			
CBL 108	P 108	74545		4100P7W	AP 51-450-12	59730	2573	2" L.N.
CBL 108 A	J 108	74545	4100R7W		AP 51-450-09			
CBL 109	P 109	74545		4100P7W	AP 51-450-12	59730	2573	2" L.N.

Figure 206 - Cable Connectors

Cable #	Plug #	Cage Code	Receptacles	Cord Caps	Plant #	Cage Code	Part #	Accessories
CBL 109 A	J 109	74545	4100R7W		AP 51-450-09			
CBL 110	P 110	74545		460P7W	AP 52-450-06	59730	2573	2" L.N.
CBL 110 A	J 110	74545	460R7W		AP 51-450-09			
CBL 111	P 111	74545		460P7W	AP 52-450-06	59730	2563	1 1/2" L.N.
CBL 111 A	J 111	74545	460R7W		AP 51-450-09			
CBL 112	P 112	74545		420P7W	AP 52-450-06	59730	2545	1" L.N.
CBL 112 A	J 112	74545	420R7W		AP 51-450-09			
CBL 113	P 113	74545		Lugs	AP 51-450-07	59730	2592	3" L.N.
CBL 113 A	J 113	74545	Studs		AP 51-450-09			
CBL 114	P 114	74545		430P7W	AP 51-450-07	59730	2558	1 1/4" L.N.
CBL 114 A	J 114	74545	430R7W		AP 51-450-09			
CBL 115	P 115	74545		420P7W	AP 51-450-07	59730	2532	3/4" L.N.
CBL 115 A	J 115	74545	420R7W		AP 51-450-09			
CBL 116	P 116	74545		420P7W	AP 51-450-07	59730	2532	3/4" L.N.
CBL 116 A	J 116	74545	420R7W		AP 51-450-09			
CBL 117	P 117	74545		420P7W	AP 51-450-07	59730	2532	3/4" L.N.
CBL 117 A	J 117	74545	420R7W		AP 51-450-09			
CBL 118	P 118	74545		420P7W	AP 51-450-07	59730	2532	3/4" L.N.
CBL 118 A	J 118	74545	420R7W		AP 51-450-09			
CBL 119	P 119	74545		420P7W	AP 51-450-07	59730	2532	3/4" L.N.
CBL 119 A	J 119	74545	420R7W		AP 51-450-09			
CBL 120	P 120	74545		420P7W	AP 51-450-07	59730	2532	3/4" L.N.
CBL 120 A	J 120	74545	420R7W		AP 51-450-09			
CBL 121	P 121	74545		420P7W	AP 51-450-07	59730	2532	3/4" L.N.
CBL 121 A	J 121	74545	420R7W		AP 51-450-09			
CBL 122	P 122	74545		420P7W	AP 51-450-13	59730	2545	1" L.N.

Figure 206 - Cable Connectors

Cable #	Plug #	Cage Code	Receptacles	Cord Caps	Plant #	Cage Code	Part #	Accessories
CBL 122 A	J 122	74545	420R7W		AP 51-450-09			
CBL 123	P123				AP 51-450-06			
CBL 124	P 124	74545		420P7W	AP 51-450-06	59730	2532	3/4" L.N.
CBL 124 A	J 124	74545	420R7W		AP 51-450-09			
CBL 124 B		74545			AP 51-450-06	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 125								
CBL 126	P 126	74545		420P7W	AP 51-450-13	59730	2532	3/4" L.N.
CBL 126 A	J 126	74545	420R7W		AP 51-450-09			
CBL 126 B					AP 51-450-09			
CBL 127	P 127	74545		420P7W	AP 51-450-06	59730	2532	3/4" L.N.
CBL 127 A	J 127	74545	420R7W		AP 51-450-09			
CBL 128	P 128	74545		330P6W	AP 52-450-06	59730	2545	1" L.N.
CBL 128 A	J 128	74545	330R6W		AP 51-450-09			
CBL 129					AP 51-450-09			
CBL 130					AP 51-450-09			
CBL 131					AP 51-450-09			
CBL 132								
CBL 133	P 133	74545	420C7W	420P7W	AP 90-451-47	59730	2545	1" L.N.
CBL 133 A	J 133	74545	420R7W		AP 51-450-09			
CBL 133 B					AP 90-451-47	59730	(2),ST050-464	(1),59730 5262 Sealing Ring & 1/2" L.N.
CBL 133C		74545		420B7W	AP 90-451-47	T & B	5333	
CBL 134	P 134	74545		430P7W	AP 51-450-07	59730	2559	1 1/4" L.N.
CBL 134 A	J 134	74545	430R7W		AP 51-450-09			
CBL 135					AP 51-450-39			
CBL 136					AP 51-450-39			
CBL 137					AP 51-450-39			

Figure 206 - Cable Connectors

Cable #	Plug #	Cage Code	Receptacles	Cord Caps	Plant #	Cage Code	Part #	Accessories
CBL 138	P 138	74545		420P7W	AP 51-450-10	59730	2532	3/4" L.N.
CBL 138 A	J 138	74545	420R7W		AP 51-450-09			
CBL 139	P 139	74545		420P7W	AP 51-450-10	59730	2532	3/4" L.N.
CBL 139 A	J 139	74545	420R7W		AP 51-450-09			
CBL 140	P 140	74545		420P7W	AP 51-450-10	59730	2532	3/4" L.N.
CBL 140 A	J 140	74545	420R7W		AP 51-450-09			
CBL 141	P 141	74545		420P7W	AP 51-450-10	59730	2532	3/4" L.N.
CBL 141 A	J 141	74545	420R7W		AP 51-450-09			
CBL 142								
CBL 143								
CBL 144					AP 51-450-09			
CBL 145					AP 51-450-09			
CBL 146					AP 51-450-09			
CBL 147					AP 51-450-09			
CBL 148					AP 51-450-09			
CBL 149					AP 51-450-09			
CBL 150					AP 51-450-09			
CBL 151					AP 51-450-09			
CBL 152					AP 51-450-09			
CBL 153					AP 51-450-09			
CBL 154					AP 51-450-09			
CBL 155								
CBL 156								

Figure 206 - Cable Connectors

Cable #	Plug #	Cage Code	Box, Shell	Box, Insert	Box, Cover	Cap, Shell	Cap, Insert	Cap, Cover	Cap, Strain Relief	Cap, Bushing
CBL 001	P 01	77820				97-3106A-32	9732-13P	9760-32P	97-3057-1020	9779-513-20
CBL 001 A	J 01	77820	97-3102A-32	9732-13S	9760-32					
CBL 002	P 02	77820				97-3106A-32	9732-13P-W	9760-32P	97-3057-1020	9779-513-20
CBL 002 A	J 02	77820	97-3102A-32	9732-13S-W	9760-32					
CBL 003	P 03	77820				97-3106A-32	9732-13P-X	9760-32P	97-3057-1020	9779-513-20
CBL 003 A	J 03	77820	97-3102A-32	9732-13S-X	9760-32					
CBL 004	P 04	77820				97-3106A-18	9718-20P	9760-18P	97-3057-1010	9779-513-10
CBL 004 A	J 04	77820	97-3102A-18	9718-20S	9760-18					
CBL 005	P 05	77820				97-3106A-18	9718-20P-W	9760-18P	97-3057-1010	9779-513-10
CBL 005 A	J 05	77820	97-3102A-18	9718-20S-W	9760-18					
CBL 006	P 06	77820				97-3106A-18	9718-12P	9760-18P	97-3057-1010	9779-513-10
CBL 006 A	J 06	77820	97-3102A-18	9718-12S	9760-18					
CBL 007	P 07	77820				97-3106A-18	9718-12P-W	9760-18P	97-3057-1010	9779-513-10
CBL 007 A	J 07	77820	97-3102A-18	9718-12S-W	9760-18					
CBL 008	P 08	77820				97-3106A-14	9714S-7P	9760-14P	97-3057-1007	9779-513-6
CBL 008 A	J 08	77820	97-3102A-14S	9714S-7S	9760-14					
CBL 009	P 09	77820				97-3106A-14	9714S-7P-W	9760-14P	97-3057-1007	9779-513-6
CBL 009 A	J 09	77820	97-3102A-14S	9714S-7S-W	9760-14					
CBL 010	P 10	77820				97-3106A-14	9714S-7P-X	9760-14P	97-3057-1007	9779-513-6
CBL 010 A	J 10	77820	97-3102A-14S	9714S-7S-X	9760-14					
CBL 011	P 11	77820				97-3106A-18	9718-8P	9760-18P	97-3057-1010	9779-513-10
CBL 011 A	J 11	77820	97-3102A-18	9718-8S	9760-18					
CBL 011 B	J 11		N/A	N/A	N/A					
CBL 012	P 12	77820				97-3106A-18	9718-8P-W	9760-18P	97-3057-1010	9779-513-10
CBL 012 A	J 12	77820	97-3102A-18	9718-8S-W	9760-18					

Figure 206 - Cable Connectors

Cable #	Plug #	Cage Code	Box, Shell	Box, Insert	Box, Cover	Cap, Shell	Cap, Insert	Cap, Cover	Cap, Strain Relief	Cap, Bushing
CBL 013	P 13 A	77820				97-3106A-18	9718-8P-Z	9760-18P	97-3057-1010	9779-513-10
CBL 013 A	J 13 A	77820	97-3102A-18	9718-8S-Z	9760-18					
CBL 020										
CBL 021										
CBL 022										

Figure 206 - Cable Connectors

Ident	Device Type	Mfg Part #	Notes
PBL 001	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 001	Stop(Comb)		N/C Contact
PBL 001	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M1	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 201	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
SSL 002	Sel Sw 3 Pos Maintained	ZB2BK133 c/w ZB2BW063	Contact (n/o) Closes in AUTO Position
SSL 002	Sel Sw 3 Pos Maintained		Contact (n/o) Closes in MANUAL Position
SSL 002	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M2	Aux Contact Tripped		Contact (internal) OPENS when drive is not powered or trips.
CR 202	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
SSL 003	Sel Sw 3 Pos Maintained		Contact (n/o) Closes in AUTO Position
SSL 003	Sel Sw 3 Pos Maintained	ZB2BK133 c/w ZB2BW063	Contact (n/o) Closes in MANUAL Position
SSL 003	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M3	Aux Contact Tripped		Contact (internal) OPENS when drive is not powered or trips.
CR 203	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
SSL 004	Sel Sw 3 Pos Maintained	ZB2BK133 c/w ZB2BW063	Contact (n/o) Closes in AUTO Position
SSL 004	Sel Sw 3 Pos Maintained		Contact (n/o) Closes in MANUAL Position
SSL 004	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M4	Aux Contact Tripped		Contact (internal) OPENS when drive is not powered or trips.
CR 204	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
SSL 005	Sel Sw 3 Pos Maintained	ZB2BK133 c/w ZB2BW063	Contact (n/o) Closes in AUTO Position
SSL 005	Sel Sw 3 Pos Maintained		Contact (n/o) Closes in MANUAL Position
SSL 005	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M5	Aux Contact Tripped		Contact (internal) OPENS when drive is not powered or trips.
CR 205	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 006	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact

Figure 207 - Electrical Control Components

Ident	Device Type	Mfg Part #	Notes
PBL 006	Stop(Comb)		N/C Contact
PBL 006	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M6	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 206	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 007	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 007	Stop(Comb)		N/C Contact
PBL 007	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M7	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 207	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 008	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 008	Stop(Comb)		N/C Contact
PBL 008	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M8	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 208	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 009	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 009	Stop(Comb)		N/C Contact
PBL 009	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M9	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 209	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 010	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 010	Stop(Comb)		N/C Contact
PBL 010	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M10	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 210	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 011	Start	XB3BP31	N/O Contact
PBL 011	Stop	XB3BP42	N/C Contact

Figure 207 - Electrical Control Components



Ident	Device Type	Mfg Part #	Notes
PBL 011	Pilot Light	XB3BV663	Flash Light on Failures,Steady on Run
M11	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 211	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
SSL 012	Sel Sw 2 Pos Maintained	ZB2BK123 c/w ZB2BW061	Contact (n/o) Closes in ON Position
SSL 012	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M12	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 212	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 013	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 013	Stop(Comb)		N/C Contact
PBL 013	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M13	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 213	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
SSL 014	Sel Sw 2 Pos Maintained	ZB2BK123 c/w ZB2BW061	Contact (n/o) Closes in ON Position
SSL 014	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M14	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 214	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 015	Start(Comb)	ZB2BW87354 c/w ZB2BW065	Same Button Starts M15,16,17 &18
PBL 015	Stop(Comb)		Same Button Stops M15,16,17 &18
PBL 015	PL(Comb)	DL1CE130	Pilot Light ON when M15,16,17&18 are all proved running
M15	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 215	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
M16	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 216	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
M17	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 217	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
M18	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter

Figure 207 - Electric Control Components

Ident	Device Type	Mfg Part #	Notes
CR 218	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 016	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 016	Stop(Comb)		N/C Contact
PBL 016	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M19	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 219	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 017	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 017	Stop(Comb)		N/C Contact
PBL 017	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M20	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 220	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 018	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 018	Stop(Comb)		N/C Contact
PBL 018	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M21	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 221	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
SS 019	Sel Sw 3 Pos Maintained	ZB2BD3 c/w ZB2BZ103	N/O Contact Closed in Forward Position
SS 019	Sel Sw 3 Pos Maintained		N/O Contact Closed in Reverse Position
PL 020	Pilot Light	ZB2BV03 c/w ZB2BV6 & DL1CE130	Energized in Forward Flash on Failures
SS 021	Sel Sw 2 Pos Maintained	ZB2BD2 c/w ZB2BZ102	N/O Contact Closed in Manual Position
PL 022	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	Energized in Reverse Flash on Failures
CR 222	Control Relay	RH1B-U 120vac c/w SH1B-05	Energized to Run Metering Pump in Forward
CR 223	Control Relay	RH1B-U 120vac c/w SH1B-05	Energized to Run Metering Pump in Reverse
M26	Aux Contact Tripped		Contact (internal) OPENS when drive is not powered or trips.
PBL 023	Start(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 023	Stop(Comb)		N/C Contact

Figure 207 - Electrical Control Components

Ident	Device Type	Mfg Part #	Notes
PBL 023	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M27	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 224	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 024	Stop(Comb)	ZB2BW87354 c/w ZB2BW065	N/O Contact
PBL 024	Start(Comb)		N/C Contact
PBL 024	PL(Comb)	DL1CE130	Flash Light on Failures,Steady on Run
M34	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 225	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
LS 025	Limit Switch	802T c/w Lever	Limit Switch Contact (n/o) Closes when divert valve in DRUM position
LS 026	Limit Switch	802T c/w Lever	Limit Switch Contact (n/o) Closes when divert valve in DIVERT position
SS 027	Sel Sw 3 Pos Maintained	ZB2BD3 c/w ZB2BZ103	Selector switch for DRUM AUTO DIVERT (n/o) Contact closes in Divert Position
SS 027	Sel Sw 3 Pos Maintained		Selector switch for DRUM AUTO DIVERT (n/o) Contact closes in Drum Position
SS 028	Sel Sw 3 Pos Maintained	ZB2BD3 c/w ZB2BZ105 & ZB2BE102	Selector switch for CLOSE AUTO OPEN (n/o) Contact closes in AUTO Position
SS 028	Sel Sw 3 Pos Maintained		Selector switch for CLOSE AUTO OPEN (n/o) Contact closes in CLOSE Position
SS 029	Sel Sw 3 Pos Special	ZB2BJ8 c/w ZB2BZ103	Special Selector Switch Maintained Left ,Momentary Right Contact Closes Both Position
SS 030	Sel Sw 2 Pos Maintained	ZB2BD2 c/w ZB2BZ102	Selector Switch n/o Contacts Close in Dropout Position
SS 031	Sel Sw 3 Pos Maintained	ZB2BD3 c/w ZB2BZ103	Selector Switch n/o Contacts Close in OPEN Position
SS 031	Sel Sw 3 Pos Maintained		Selector Switch n/o Contacts Close in AUTO Position
LS 032	Limit Switch	802T c/w Lever	Limit Switch (n/o) Contact Closes when Batchter Gate Open
LS 033	Limit Switch	802T c/w Lever	Limit Switch (n/o) Contact Closes when Batchter Gate Closed
LS 034	Limit Switch	802T c/w Lever	Limit Switch (n/o) Contact Closes when Fire Shutter Closed
LS 035	Limit Switch	802T c/w Lever	Limit Switch (n/o) Contact Closes when Surge Bin Gate CLOSED
LS 036	Limit Switch	802T c/w Lever	Limit Switch (n/o) Contact Closes when Product NOT Flowing From Bin 1

Figure 207 - Electrical Control Components

Ident	Device Type	Mfg Part #	Notes
LS 037	Limit Switch	802T c/w Lever	Limit Switch (n/o) Contact Closes when Product NOT Flowing From Bin 2
LS 038	Limit Switch	802T c/w Lever	Limit Switch (n/o) Contact Closes when Product NOT Flowing From Bin 3
LS 039	Limit Switch	802T c/w Lever	Limit Switch (n/o) Contact Closes when Product NOT Flowing From Bin 4
BS 040	Bin Switch		Bin Switch (n/c) Contact closes when Surge Bin Low Level
BS 041	Bin Switch		Bin Switch (n/o) Contact closes when Surge Bin High Level
OLS 042	Level Switch	Part of Air Compressor	Level Switch (n/o) Contact Closes on Level RISE(Alarm on Level DROP)
PS 043	Pressure Switch		Pressure Switch (n/o) Contact Closes on Pressure RISE(Alarm)
PS 044	Pressure Switch		Pressure Switch (n/c) Contact Opens on Pressure RISE(Controls Aircompressor)
PS 045	Pressure Switch		Pressure Switch (n/c) Contact Opens on Pressure RISE(Controls Aircompressor)
DTAM 046	Access Terminal	1747 DTAM-E	Allows operator interface with operation parameters of plant.
PS 047	Pressure Switch		Pressure Switch (n/o) Contact Closes on Pressure RISE(Alarm)
SV 048	Solenoid Valve		Solenoid Energized to CLOSE Gate (Power Fail TO OPEN POSITION)
SV 049	Solenoid Valve		Solenoid Energized to OPEN Gate (Power Fail To CLOSE POSITION)
SV 050	Solenoid Valve		Solenoid Valve Energized to Open Gate (Power Fail TO CLOSE POSITION)
SV 051	Solenoid Valve		Energize Solenoid Valve to Control Divert Valve (Power Fail to Divert Position)
SV 052	Solenoid Valve		Energize Solenoid Valve to Control Fire Damper (Power Fail to Closed Position)
PDT 053	Pressure Transmitter		4-20 ma Signal to Indicate Baghouse Differential Pressure
SYS 054	Output (solidstate)	Supplied in SYSTEMS Panel	Output from SYSTEMS unit to A/B PLC to Start Bin A
SYS 055	Output (solidstate)	Supplied in SYSTEMS Panel	Output from SYSTEMS unit to A/B PLC to Start Bin B
SYS 056	Output (solidstate)	Supplied in SYSTEMS Panel	Output from SYSTEMS unit to A/B PLC to Start Bin C
SYS 057	Output (solidstate)	Supplied in SYSTEMS Panel	Output from SYSTEMS unit to A/B PLC to Start Bin D
SYS 058	Output (solidstate)	Supplied in SYSTEMS Panel	Output from SYSTEMS unit to Shutdown System (OPT)
SYS 059	Output (solidstate)	Supplied in SYSTEMS Panel	Output from SYSTEMS unit to Operate Divert Valve (Energized to DRUM)
PB 060	Stop Pushbutton Mushroom Head	ZB2BC4 c/w ZB2BZ103	N/O Contact Closes on operation

Figure 207 - Electrical Control Components

Ident	Device Type	Mfg Part #	Notes
AUX 061	Aux Contact	Part of Main Breaker	Input High when Breaker Closed MCC #1
AUX 062	Aux Contact	Part of Main Breaker	Input High when Breaker Closed MCC #2
AUX 063	Aux Contact	Part of Main Breaker	Input High when Breaker Closed MCC #2 AUX Feed (NIGHT SERVICE)
STC 064	ShuntTrip Coil 120 vac	Part of Main Breaker	Energized Coil to Trip Breaker [Control Relay CR037]
STC 065	ShuntTrip Coil 120vac	Part of Main Breaker	Energized Coil to Trip Breaker [Control Relay CR038]
STC 066	ShuntTrip Coil 120vac	Part of Main Breaker	Energized Coil to Trip Breaker [Control Relay CR038]
CR 226	Control Relay	LC1D093FA60	Energized on control power initiation.
CR 227	Control Relay	RH1B-U 120vac c/w SH1B-05	Energized to Shutdown Burner
CR 228	Control Relay	RH1B-U 120vac c/w SH1B-05	Energized on Alarms (Signal to Call Plant Personnell)
CR 229	Control Relay	RH1B-U 120vac c/w SH1B-05	Energized when plant ready to recieve Virgin Material
KS 067	Sel Sw 2 Pos Maintained	ZB2BG2 c/w ZB2BZ101	N/O Contact Closes when Key Turned to ON Position
PL 068			Spare
SYS 069	Input (SYSTEMS)		Input to SYSTEMS from Gathering Conveyor
SYS 070	Input (solidstate)		Input to SYSTEMS from Divert Valve Limit (Divert Position)
SYS 071	Input (solidstate)		Input to SYSTEMS from Divert Valve Limit (Drum Position)
CR 230	Control Relay	RH1B-U 120vac c/w SH1B-05	Changover Relay for Feeder "A" Speed Control (Auto/Man)
CR 231	Control Relay	RH1B-U 120vac c/w SH1B-05	Changover Relay for Feeder "B" Speed Control (Auto/Man)
CR 232	Control Relay	RH1B-U 120vac c/w SH1B-05	Changover Relay for Feeder "C" Speed Control (Auto/Man)
CR 233	Control Relay	RH1B-U 120vac c/w SH1B-05	Changover Relay for Feeder "D" Speed Control (Auto/Man)
CR 234	Control Relay	RH1B-U 120vac c/w SH1B-05	Changover Relay for A/C Pump Speed Control (Auto/Man)
PB 072	Pushbutton	ZB2BL2 c/w ZB2BZ101	
ALM 073	Alarm Buzzer	Sonalert SC110	
PL 074	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	
PBL 075	Start(Comb)	ZB2BW34 c/w ZB2BW061	
PBL 075	PL(Comb)	DL1CE130	Flash Pilot Light if Alarm is Silenced
SSL 076	Sel Sw 3 Pos Maintained	ZB2BK133 c/w ZB2BW063	Contact (n/c) Closes in AUTO Position

Figure 207 - Electrical Control Components

Ident	Device Type	Mfg Part #	Notes
SSL 076	Sel Sw 3 Pos Maintained		Contact (n/o) Closes in MANUAL Position
SSL 076	PL(Comb)	DL1CE130	Pilot Light to Indicate Cleaning in Progress
CR 235	Control Relay	RH1B-U 120vac c/w SH1B-05	Relay Energized to start Pulsing of Bags
PL 077	Pilot Light	ZB2BV03 c/w ZB2BV6 & DL1CE130	Pilot Light to Indicate Open Position
PL 078	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	Pilot Light to Indicate Closed Position
PL 079	Pilot Light	ZB2BV03 c/w ZB2BV6 & DL1CE130	
PL 080	Pilot Light	ZB2BV04 c/w ZB2BV6 & DL1CE130	
PL 081	Pilot Light	ZB2BV03 c/w ZB2BV6 & DL1CE130	
PL 082	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	
PL 083	Pilot Light	ZB2BV03 c/w ZB2BV6 & DL1CE130	
PL 084	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	
EPS 085	Pressure Switch (Air Flow)		Supplied by HAUCK
ASA 086	Scale		Aggregate Scale Assembly Mounted on Conveyor
CR 236	Control Relay	LC1D253FA60 (32 Amps)	
TS 087	Thermostat		Controls Contactor CR 036
SSL 088	Sel Sw 2 Pos Maintained	ZB2BK126 c/w ZB2BW061	
SSL 088	PL(Comb)	DL1CE130	
DPG 089	Digital Pressure Display	Supplied by Griffin	Dust Collector Differential Pressure Across Bags
PL 090	Pilot Light	ZB2BV04 c/w ZB2BV6 & DL1CE130	
PL 091	Pilot Light	ZB2BV04 c/w ZB2BV6 & DL1CE130	
SSL 092	Sel Sw 2 Pos Maintained	ZB2BK124 c/w ZB2BW061	N/O Contact Closes in BYPASS Position
SSL 092	PL(Comb)	DL1CE130	Pilot Light Flashing When Bypasses in Place
PL 093	Pilot Light	ZB2BV03 c/w ZB2BV6 & DL1CE130	Pilot Light Energized When BOTH Primary Generators are Running
POT 094	Potentiometer 10 Turn c/w Lock	Clarostat 73JA 1K c/w RB Dial	
POT 095	Potentiometer 10 Turn c/w Lock	Clarostat 73JA 1K c/w RB Dial	
POT 096	Potentiometer 10 Turn c/w Lock	Clarostat 73JA 1K c/w RB Dial	

Figure 207 - Electrical Control Components

Ident	Device Type	Mfg Part #	Notes
POT 097	Potentiometer 10 Turn c/w Lock	Clarostat 73JA 1K c/w RB Dial	
POT 098	Potentiometer 10 Turn c/w Lock	Clarostat 73JA 1K c/w RB Dial	
POT 099	Potentiometer 10 Turn c/w Lock	Clarostat 73JA 2.2K c/w RB Dial	
MTR 100	Panel Meter % Speed	251-200-LSXS 0-20ma 0-100%	Speed Meter for Agg Bin " 1 "
MTR 101	Panel Meter % Speed	251-200-LSXS 0-20ma 0-100%	Speed Meter for Agg Bin " 2 "
MTR 102	Panel Meter % Speed	251-200-LSXS 0-20ma 0-100%	Speed Meter for Agg Bin " 3 "
MTR 103	Panel Meter % Speed	251-200-LSXS 0-20ma 0-100%	Speed Meter for Agg Bin " 4 "
MTR 104	Panel Meter % Speed	251-200-LSXS 0-20ma 0-100%	Speed Meter for A/C Metering Pump
MTR 105	Panel Meter A/C Amps 0-150%	251-240-XSPZAAK 0-4.65 Amp	A/C Ammeter for Drum Drive
MTR 106	Panel Meter A/C Amps 0-150%	251-240-XSPZAAK 0-4.65 Amp	A/C Ammeter for Exhaust Blower
MTR 107	Panel Meter A/C Amps 0-150%	251-240-XSPZAAK 0-4.65 Amp	A/C Ammeter for Hot Mx Conv.
MTR 108	Panel Meter A/C Volts 0-600Vac	251-244-PZSJ 0-150 Volt	
MTR 109	Panel Meter A/C Volts 0-600Vac	251-244-PZSJ 0-150 Volt	
MTR 110	Panel Meter A/C Freq. 55-65 Hz	251-250-ANAN 120V 55-65Hz	
MTR 111	Panel Meter A/C Freq. 55-65 Hz	251-250-ANAN 120V 55-65Hz	
PL 112	Pilot Light	ZB2BV04 c/w ZB2BV6 & DL1CE130	
DM 113	Duff Norton	Supplied by HAUCK	
AMA 114	Asphalt Metering Unit		Asphalt Metering Assembly (Tack, Temp Probe and Amplifier)
PL 115	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	
PT 116	Pressure Transmitter	Supplied by HAUCK	
CR 237	Control Relay	RH1B-U 120vac c/w SH1B-05	Relay in Hauck Burner Control Panel
CR 238	Control Relay	RH1B-U 120vac c/w SH1B-05	
CR 239	Control Relay	RH1B-U 120vac c/w SH1B-05	
HRN 117	Warning Horn		
CR 240	Control Relay	RH1B-U 120vac c/w SH1B-05	Energize to OPEN Shutter
CR 241	Control Relay	RH1B-U 120vac c/w SH1B-05	(n/o) Contact Closed When MCC Energized

Figure 207 - Electrical Control Components

Ident	Device Type	Mfg Part #	Notes
CR 242	Control Relay	RH1B-U 120vac c/w SH1B-05	(n/o) Contact Closed When MCC Energized
PTX 118	Potential Transformer	Supplied n MCC Unit	MCC #1 Metering Transformer
PTX 119	Potential Transformer	Supplied n MCC Unit	MCC #2 Metering Transformer
CR 241	(n/o) Contact	RH1B-U 120vac c/w SH1B-05	
CR 242	(n/o) Contact	RH1B-U 120vac c/w SH1B-05	
CT 120	Current Transformer	2SFT-101	CT for Drum Drive
CT 121	Current Transformer	2SFT-750	CT for Hot Mix Conv.
CT 122	Current Transformer	2SFT-201	CT for Exhaust Blower
HTR 123	Heating Element		Cone Heat Heater
HTR 124	Heating Element c/w Thermostat		Gate "A" Heat Left Side when facing JB04 on silo
HTR 125	Heating Element c/w Thermostat		Gate "B" Heat Right Side when facing JB04 on silo
TI 126	Digital Temperature Display	Omron K3TL TB11	
TI 127	Digital Temperature Display	Omron K3TL TB11	
JB 01	4X Enclosure	#1414N4G	
JB 02	4X Enclosure	#1414N4G	
JB 03	4X Enclosure	#1414N4G	
JB 04	4X Enclosure	#1418N4C6	
JB 05	4X Enclosure	#1414N4G	
JB 06	4X Enclosure	#1414N4G	
TE 128		AF3313-GP-S-100-3-LT-2-2.5-P-.75	RTD Sensor Element c/w 3/4" Well & J Box
TE 129		AF3313-GP-S-100-3-LT-2-2.5-P-.75	RTD Sensor Element c/w 3/4" Well & J Box
TIC 130	Temperature Controller	UDC3004-0-00A-1-00	Part Of Hauck Panel
TIC 131	Temperature Controller	UDC3004-0-00A-1-00	Part Of Hauck Panel
BPC 132	Pressure Controller	UDC3003-0-01A-00	Part Of Hauck Panel
S1	Sel Sw 2 Pos Maintained	ZB2BD2 c/w ZB2BZ101	Part Of Hauck Panel
S3	Sel Sw 3 Pos Momentary	ZB2BD8 c/w ZB2BZ105	Part Of Hauck Panel

Figure 207 - Electrical Control Components



Ident	Device Type	Mfg Part #	Notes
PB1	Start(Comb)	ZB2BW35 c/w ZB2BW061 & DL1CE130	Part Of Hauck Panel
PB2	Start	ZB2BL4 c/w ZB2BZ101	Part Of Hauck Panel
PB3	Start	ZB2BL2 c/w ZB2BZ101	Part Of Hauck Panel
L1	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	Part Of Hauck Panel
L2	PL(Comb)	Part Of PB1	Part Of Hauck Panel
L3	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	Part Of Hauck Panel
L4	Pilot Light	ZB2BV03 c/w ZB2BV6 & DL1CE130	Part Of Hauck Panel
L5	Pilot Light	ZB2BV01 c/w ZB2BV6 & DL1CE130	Part Of Hauck Panel
L6	Pilot Light	ZB2BV04 c/w ZB2BV6 & DL1CE130	Part Of Hauck Panel
PB1-D	Start(Comb)	ZB2BH7 c/w ZB2BW065 & DL1CE130	Part Of Hauck Panel
PB2-D	Start(Comb)	ZB2BW33 c/w ZB2BW061 & DL1CE130	Part Of Hauck Panel
PB3-D	Start(Comb)	ZB2BW33 c/w ZB2BW061 & DL1CE130	Part Of Hauck Panel
L1-D	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	Part Of Hauck Panel
FM	Meter	API 302 #37-0002-0000	Part Of Hauck Panel
S5	Sel Sw 2 Pos Maintained	ZB2BD2 c/w ZB2BZ103 & (2) ZB2BE101	Part Of Hauck Panel
L7	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	Part Of Hauck Panel
L8	Pilot Light	ZB2BV05 c/w ZB2BV6 & DL1CE130	Part Of Hauck Panel
TE 133			Supplied by GRIFFIN
TE 134			Supplied by HAUCK
TE 135			Supplied by GRIFFIN
PB 136	Start	ZB2BL2 c/w ZB2BZ101	Lamp Test Pushbutton To Test All Pilot lights
GFR 137	Ground Fault Relay	Part of MCC #1	
GFR 138	Ground Fault Relay	Part of MCC #2	
DWI 139	Digital Weigh Indicator	dF2000	Portable Weigh Tank Scale Readout

Figure 207 - Electrical Control Components

Ident	Device Type	Mfg Part #	Notes
CR 243	Control Relay	RH1B-U 120vac c/w SH1B-05	Opens Exhaust Dampor During PrePurge
PL 140	Pilot Light	ZB2BV04 c/w ZB2BV6 & DL1CE130	Flashes On High Temperature Alarm
TI 141	Temperature Switch	K3TL-TA11-C Omron	Temperature Switch (n/c) Contact OPENS on Temperature RISE
TI 142	Temperature Switch	K3TL-TA11-C Omron	Temperature Switch (n/c) Contact OPENS on Temperature RISE
FPS 143	Power Conditioner Unit		Filter for SYSTEMS Computer Equipment
144	Spare		
PBL 145	Start(Comb)	ZB2BW33 c/w ZB2BW061	Contact (n/o) Closes to Initiate Vibrator
PBL 145	PL(Comb)	DL1CE130	Flash Light on Failures, Steady on Run
M38	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 245	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 146	Start(Comb)	ZB2BW33 c/w ZB2BW061	Contact (n/o) Closes to Initiate Vibrator
PBL 146	PL(Comb)	DL1CE130	Flash Light on Failures, Steady on Run
M39	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 246	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 147	Start(Comb)	ZB2BW33 c/w ZB2BW061	Contact (n/o) Closes to Initiate Vibrator
PBL 147	PL(Comb)	DL1CE130	Flash Light on Failures, Steady on Run
M40	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 247	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
PBL 148	Start(Comb)	ZB2BW33 c/w ZB2BW061	Contact (n/o) Closes to Initiate Vibrator
PBL 148	PL(Comb)	DL1CE130	Flash Light on Failures, Steady on Run
M41	Aux Contact	Part of Starter Assembly in MCC	Aux Contact in Starter
CR 248	Control Relay	RH1B-U 120vac c/w SH1B-05	Control Circuit Interface Relay
148	Spare		
149	Spare		
0	Spare		
LS 150	Limit Switch		Supplied by HAUCK

Figure 207 - Electrical Control Components

Ident	Device Type	Mfg Part #	Notes
LS 151	Limit Switch		Supplied by HAUCK
PFS 152	Pilot Flame Scanner		Supplied by HAUCK
MFS 153	Main Flame Scanner		Supplied by HAUCK
FRM 154	Firing Rate Motor		Supplied by HAUCK
AFS 155	Air Flow Switch (Combustion)		Supplied by HAUCK
FPS 156	Fuel Pressure Switch		Supplied by HAUCK
157	Spare		
158	Spare		
159	Spare		
160	Spare		
CR 244	Control Relay	RH1B-U 120vac c/w SH1B-05	
JB 07	4X Enclosure	#1414N4G	
JB 08	4X Enclosure	#1414N4G	
JB 09	4X Enclosure		
JB 10	4X Enclosure	#1414N4G	
JB 11	Cast Enclosure	BKXS-1B c/w CBK-G Cover	
JB 12	Cast Enclosure	BKXS-1B c/w CBK-G Cover	

Figure 207 - Electrical Control Components

**SECTION C1**

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
31934	Hauck Manufacturing P.O. Box 90 Lebanon, PA 1722042	(717) 272-3051	(717) 273-9882

Description of Components: Drum Mixer Burner and Controls

Components:

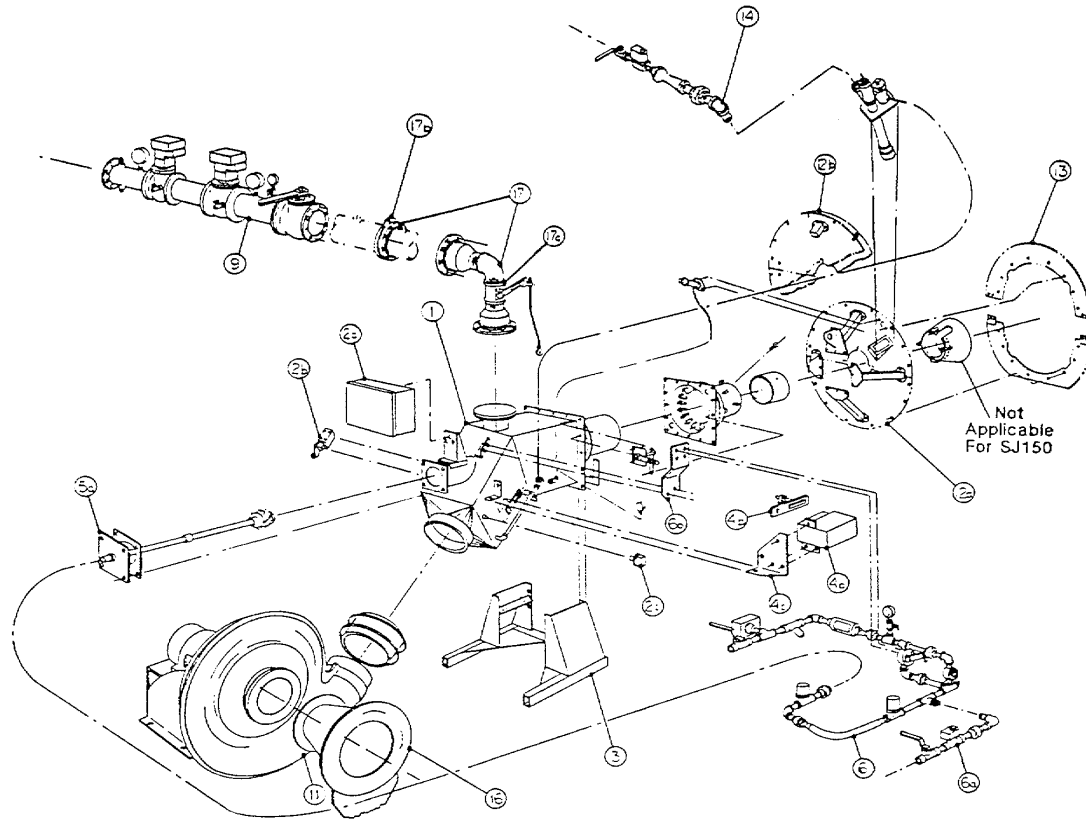
Model SJO4260E Starjet Burner (SJ260)

Model TBA36-50-T Blower

Model BCS3000 Controller



**OPEN FIRED  
STARJET BURNER UNIT  
SJ075 - SJ260**



Key No.	Description	SJ260
1	Burner, Basic	44436
2	Kit, Junction Box *	GF133
a.	Junction Box	45842x
+	1. Transformer	40576x
+	2. Resistor	10805
+ b.	Low Fire Limit Switch	15887
+ c.	Air Pressure Switch	20533
3	Skid, Mini	19298

20" Centerline

47373      GF147FD

HAUCK MANUFACTURING CO., P.O. Box 90, Lebanon, PA 17042 717-272-3051  
3/92      Fax: 717-273-9882 Telex: 671-1457

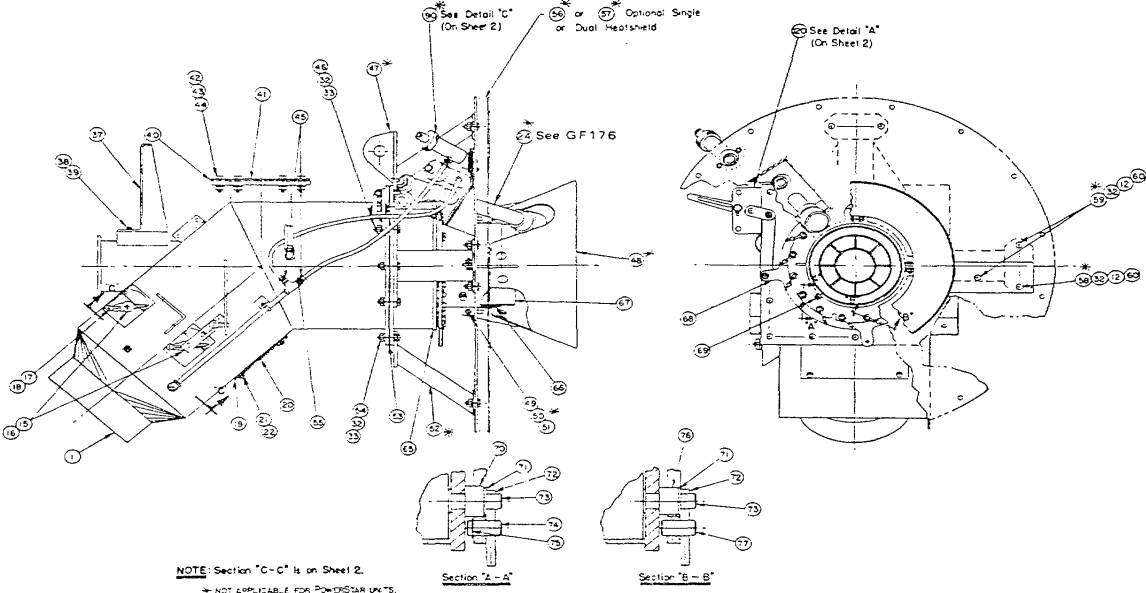
Key <u>No.</u>	Description	SJ260
4	Kit, Control Motor	
	9 & 12 o'clock	45844x001
+ a.	Medium Torque Motor	16847
b.	Triple Bearing Lever Assy	45829
	d. Motor Mt'g Bracket 9 & 12 o'clock	48026
5	Insert, Primary Air	
a.	Oil/Gas 48418	GF135
6	Manifold, Oil	
	9 & 12 o'clock	48090x002
b.	Oil Valve Mt'g Bracket 9 & 12 o'clock	48087 GF139
11	Blower	GF107
	36 osi	TBA-36-50-0 44067x 46718
12 a.	Heatshield	48682 48446x

Specify Control System In Use  
+ Recommended Spare Parts



**OPEN FIRED/POWERSTAR  
STARJET BASIC BURNER  
SJ075 - SJ260**

**SJ075 - SJ260**

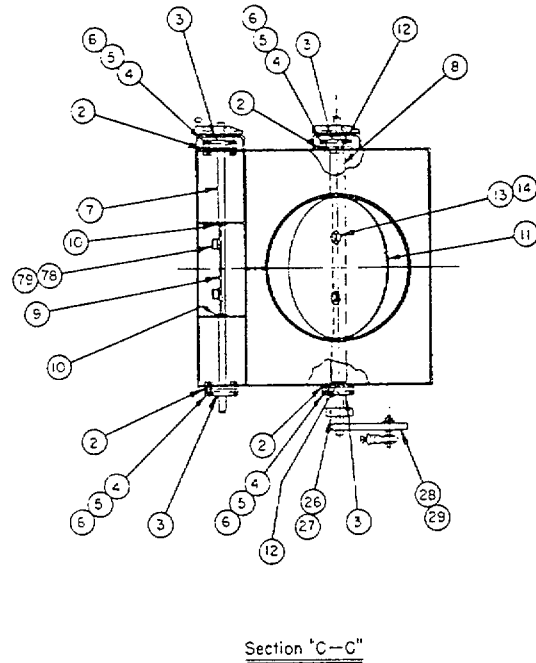
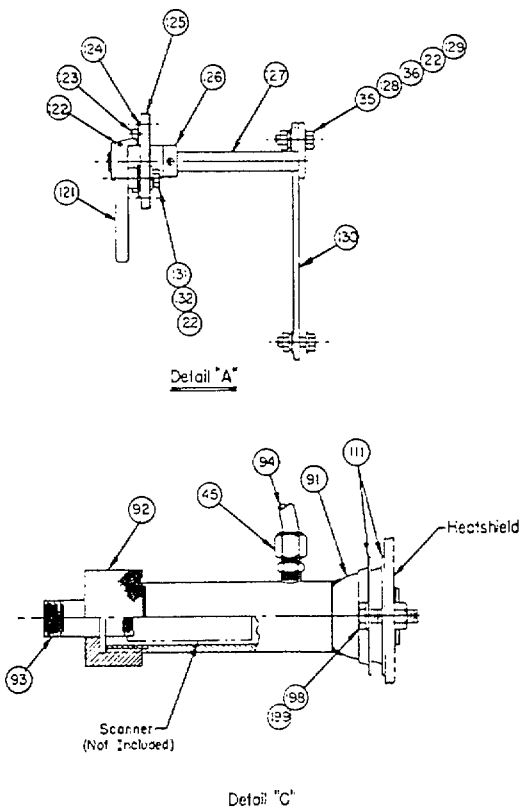


Key No.	Description	Sj260
1	Body Assembly, Basic (Open Fired)	47476
	Note Items #2 through #22 are part of #1	
2	Gasket, Bearing	4 Req'd 43450
3	Bearing, Damper	4 Eq'd 43411
4	Screw, Hex Hd Cap 1/4-20x3/4	6938x006
5	Lock Washer, Std Med Spring, 1/4"	7273
6	Nut, Hex Machine 1/4-20	7016
7	Shaft, Primary Air Damper	44454
8	Shaft, Secondary Air Damper	47230
9	Damper, Primary Air	44455
10	Washer, Std Plain 33/64 I.D.	7253
11	Disc, Secondary Air Damper	47231
*12	Washer, Plain 9/16 I.D.	7073
13	Screw, Hex Soc Hd Cap 1/4-20x3/4"	6966x006

HAUCK MANUFACTURING CO., P O. Box 90, Lebanon, PA 17042 717-272-3051

3/92

Fax: 717-273-9882 Telex: 671-1457



Key No.	Description	SJ260
14	Lock Washer, Std. Med Spring 1/4"	7103
15	Pointer 2 Req'd	2742C
16	Pin, Roll 1/8 dia. x 1-1/2"	7148x024
17	Thumb Screw, 5/16-18x1/2"	6990x004
18	Pin, Friction	5024
19	Gasket, Access Port	41752
20	Cover, Access Port	41695x004
21	Screw, Hex Hd Cap 3/8-16x1"	7236x008
22	Lock Washer, Std Med Spring 3/8"	7105
23	Washer, Plain 9/16 I.D. (Not Shown)	7073
24	Pilot Assy	47782x001
26	Cam	45846
27	Screw, Hex Soc Hd #10-32x1"	6968x008
28	Lever	45827
29	Rod, Connection	9650x012
*32	Lock Washer, Std Light Spring 1/2"	7247
33	Nut, Hex Heavy 1/2-13	7240
35	Screw, Hex Hd Cap 3/8-16x1-1/4"	694Cx010
36	Nut, Hex Heavy 3/8-16	7023
37	Bracket	46705x002
38	Screw, Hex Hd Cap 5/16-18x1-1/4"	7241x010
39	Lock Washer, Std Light Spring 5/16"	7104
40	Gasket	4124



Key No.	Description	
		SJ260
41	Cover	9851
42	Screw, Hex Hd Cap 3/8-16x1" 7236x008	
43	Lock Washer, Std Light Spring 3/8"	7246
44	Nut, Hex Heavy 3/8-16	7227
45	Fitting, Compression 4 Req'd	12652
46	Screw, Hex Hd Cap 1/2-113-2-1/2"	7239x020
*47	Lifting Lug Bracket	46061x001
48	Flame Holder	44445
*49	Screw, Hex Hd Cap Type 309 STSTL 3/8-16x1" 7196x008	
*50	Lock Washer, Std Light Spring 3/8"	7246
"51	Nut, Hex Heavy STSTL 3/8-16	7227
*52	Bracket 4 Req'd	45240
53	Gasket	44473
54	Screw, Hex Hd Cap 1/2-13x2" 7239x016	
55	Gauge	20709
*56	Heatshield Single (Optional)	46718
*57	Heatshield Dual (Optional)	46868
*58	Screw, Hex Hd Cap 1/2-13x1-3/4" 7239x014	
*59	Screw, Hex Hd Cap 1/2-13x1-1/2" 7239x012	
*60	Nut, Hex Heavy Brass 1/2-13	7310
65	Nozzle Assy, Secondary Air (Open Fired)	47483
	Note: Items #66 through #77 are part of #65	
66	Body Assy, Secondary Air	44448
67	Sleeve, Secondary Air	49978
68	Ring, Secondary Air	44474
69	Screw, Hex Hd Cap Type 309 STSTL 3/8-10x3/4"	7196x006
70	Bearing	46276
71	Washer, Plain	7253
72	Pin, Roll 1/4x2-1/2"	7314x020
73	Vane, Spin	44483
74	Pin	46352
75	Ring	44186
76	Spacer	45062
77	Pin	45047
78	Screw, Hex Soc Hd Cap 1/4-20x3"	6966
79	Washer, Med Spring Lock 1/4"	7103
90	Scanner Adapter Assy 2 Req'd	46682
	Note: Items #91 through #102 are part of #90	
91	Adapter, Scanner	46683
92	Nut, Scanner Adapter	46685
93	Support, Scanner	46684
94	Tubing, Copper 3/8" O.D. 30" Lg.	20548
111	Flange, Ball Retaining	46681
120	Bracket & Linkage Spin Vane Adj.	46353x001
	Note: Items #121 through #132 part of #120	

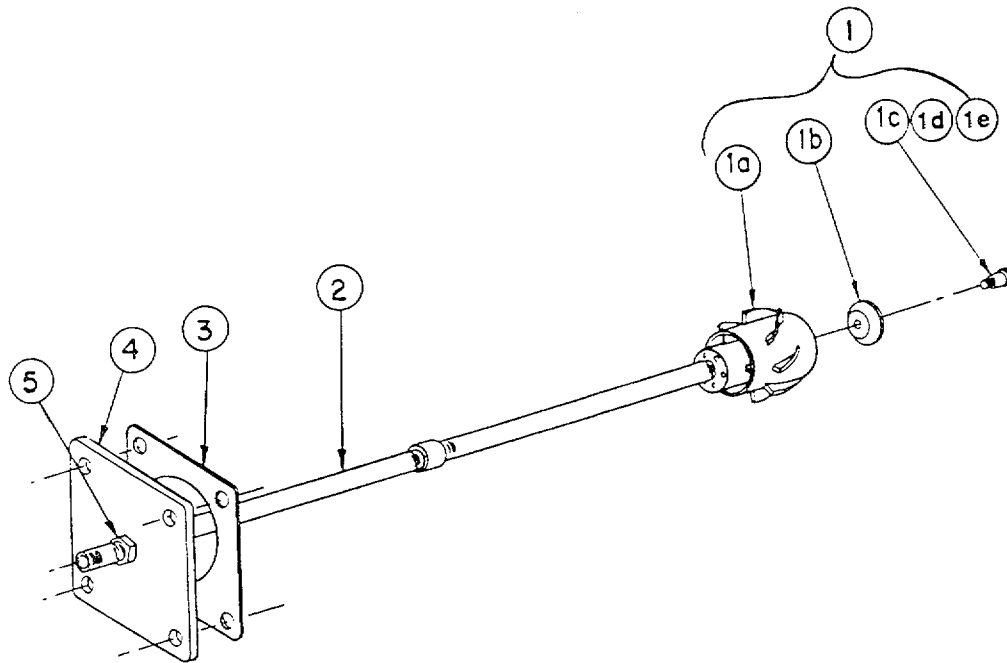
<u>Key No.</u>	<u>Description</u>	SJ260
121	Lever	44188x002
122	Setscrew, Hex Soc Hd Cone Pt 3/8-16x3/4"	7317x006
123	Screw, Hex Soc Hd Cap 1/4-20x3/8"	6966x003
124	Dialplate	46343
125	Bracket	46350
126	Collar	8857
127	Shaft	46351x001
128	Washer, Std Plain 13/32"	7071
129	Guide	6410
130	Link	46348x001
131	Screw, Hex Hd Cap 3/8-16x1-1/2"	7236x012
132	Washer, Std Plain 3/8"	7077
198	Screw, Hex Hd Cap 5/16-18x1"	7241x008
199	Washer, Light Spring Lock 5/16"	7245

\* These Parts Not Applicable For Powerstar Units



PARTS LIST

OIL INSERT  
SJ075 - SJ580

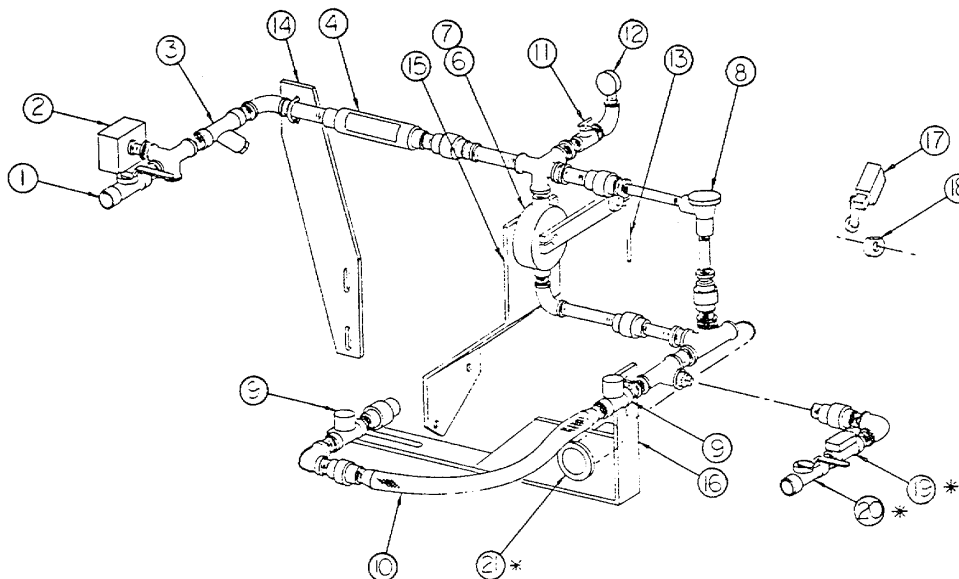


Key No.	Description	SJ260
	Oil Insert (Open Fired)	48418
1	Oil Nozzle Assembly	48419
a.	Oil Nozzle	48421
b.	Oil Nozzle Deflector	48420
c.	Screw, Shoulder #10-24	7338x003
d.	Nut, Hex Castle 1/4-20	---
e.	Pin, Cotter 1/16 Dia.	---
2	Oil Inlet Tube, Rear (Open Fired)	30794
3	Oil Tube Gasket	44449
4	Oil Tube Backplate	44450
5	Lock Nut	6495
		1/2 NPS

GF135FF



OIL MANIFOLD  
SJ075 - SJ260



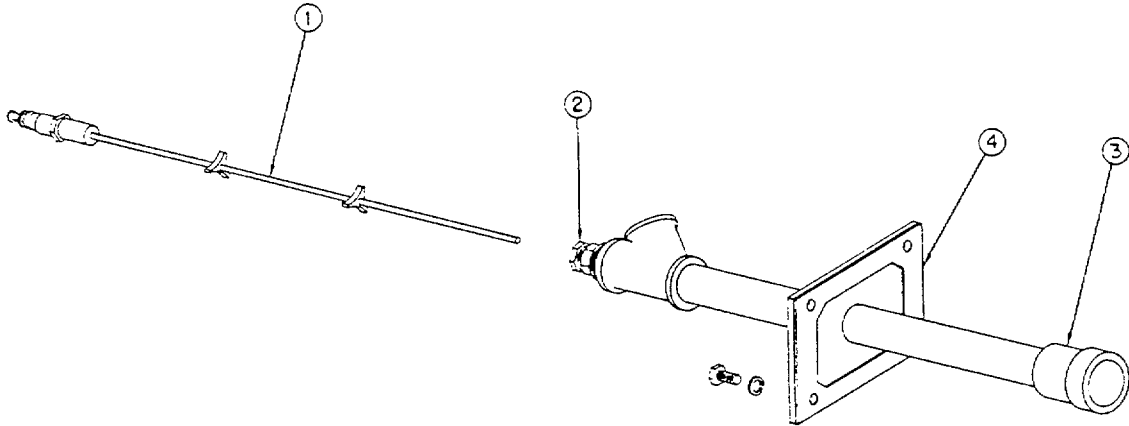
Key No.	Description	SJ250
	Oil Manifold	48090
1	Ball Valve 3/4" NPT	41607
+ 2	Pressure Switch, Low Oil	14465
3	Strainer 3/4" NPT	16344
4	Flow Meter	41419x004
5	Replacement Glass, Flow Meter	96081
6	Oil Valve	16684
7	Lever, Adj.	F-1/2-20 11676
+ 8	Micro Oil Valve	42574
+ 9	Solenoid Valve 1/2" NPT	S-3-9 45896
10	Flexible Hose	11078
11	Needle Valve 1/4" NPT	13158
+ 12	Gauge, Liquid Filled 0-100 psi	35971

GF139FD

Key No.	Description	
		SJ260
13	Rod, Connection	9650x012
14	Bracket, Inlet	48017
15	Bracket, Oil Valve	
	9 & 12 o'clock	48087
16	Bracket, Oil Manifold	48088
+ 17	Primary Air Limit Switch	20533
18	Primary Air Cam	45846
*		
+ 19*	Solenoid Valve	45918
20*	Ball Valve	41694
21*	Indicating Temperature Control Instrument	45903
+	Recommended Spare Parts	



**OPEN FIRED/POWERSTAR  
BURNER PILOT  
SJO75 - SJ980**



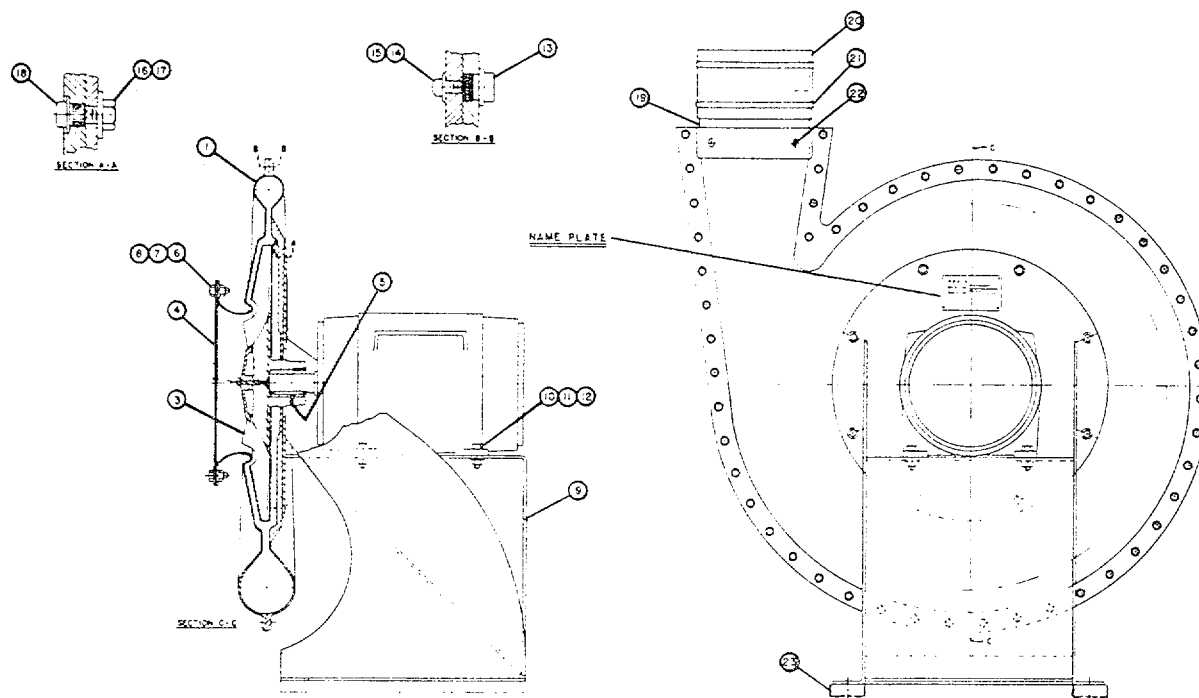
Key		
No.	Description	
	Burner Pilot Assy (Open Fired)	SJ260 47782x001
+ 1	Spark Plug igniter Assy (Open Fired)	47783x006
2	Adapter Nut	8184
3	Nozzle, PFS	9378
4	Pilot/Scanner Gasket (Open Fired)	48236
+	Recommended Spare Parts	
		GF176FC

HAUCK MANUFACTURING CO., P.O. Box 90, Lebanon, PA 17042 717-272-3051  
9/90 Fax: 717-273-9882 Telex: 671-1457



PARTS LIST

**TURBO BLOWER  
TBA SERIES - DIRECT DRIVE**



<u>Key No.</u>	<u>Description</u>	<u>Key No.</u>	<u>Description</u>	
1	Casing Assembly (2 pcs, Front & Rear)			
+ 3	Impeller			
4	Intake Guard			
+ 5	Setscrew, Impeller	3 Req'd		
6	Screw, Intake Guard	4 Req'd		
7	Washer, Intake Guard	4 Req'd		
8	Nut, Intake Guard	4 Req'd		
9	Base			
10	Screw, Motor Mounting	4 Req'd		
11	Washer, Motor Mounting	4 Req'd		
12	Nut, Motor Mounting	4 Req'd		
13	Nut, Casing Flange		*	
14	Screw, Casing Flange		*	
15	Washer, Casing Flange		*	
16	Screw, Casing Mounting	8 Req'd		
17	Washer, Casing Mounting	8 Req'd		
18	Nut, Casing Mounting	8 Req'd		
19	Outlet Sleeve			
+ 20	Flexible Sleeve			
+ 21	Clamps	2 Req'd		
22	Screw, Outlet Sleeve	4 Req'd		
23	Cork Pad	2 Req'd		

\* Quantity Varies Depending on Model.

+ Recommended Spare Parts

Note: When ordering parts, always give model and serial numbers found on the nameplate. (See drawing for location.)

GF107FD

HAUCK MANUFACTURING CO., P.O. Box 90, Lebanon, PA 17042 717-272-3051 EA1  
8/90 Fax: 717-273-9882 Telex: 671-1457

Casing (Key No.1) CW	Impeller ODP CW	(Key No.3) TEFC CW	Intake Guard (Key No.4)	Sleeve & Clamps (Key No. 20 & 21)	Cork Pads (Key No.23)	
TBA 36-50	44088	44065	44065	18696	801804	39126X003

The Following Parts Are Common to All Blowers:

<u>Key No.</u>	<u>Description</u>	<u>Part No.</u>
6	Screw, Intake Guard	7239X012
7	Washer, Intake Guard	7253
8	Nut, Intake Guard	7240
13	Nut, Casing Flange	19664
14	Screw, Casing Flange	7254x010
15	Washer, Casing Flange	7070
16	Screw, Casing Mounting	7243X008
17	Washer, Casing Mounting	7077
18	Nut, Casing Mounting	15318



**BURNER CONTROL**I. RECOMMENDED SPARE PARTS

<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
20577	1	Relay, UV, Honeywell No. RA890G-1260
20579	2	Scanner, UV, Honeywell No. C7027A-1049-2
17292	3	Relay, 3PDT, P-B No. KUP14A15 or equivalent
40250	1	Timer, Omnetics No. MMS115A5Z480B
40743	1	Timer, Omnetics No. MMS115A1Z14-1/4B
40744	1	Timer, Omnetics No. M15A1 Z 9-1/2B
16169	10	Bulb, 120V No. 6S6
44672	1	Indicator, Neon, Radion No. BN2113-T
49937	5	Bulb, 120V, C-H No. 120PSB

**SECTION C2**

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
OWXM9	Hayes Dana Inc. 8115 46 Street Edmonton, Alberta T6B 2M1	(403) 476-4950	(403) 469-4709

Description of Components: Trailer Axles

Components:

Model            D21 Axle

**SECTION C3**

This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
99062	Reyco Industries Inc. P.O. Box 2268, 600 N. Prospect Avenue Springfield, Missouri 65801-2268	(417) 862-4343	(417) 862-0343

Description of Components: Trailer Suspensions

Components:

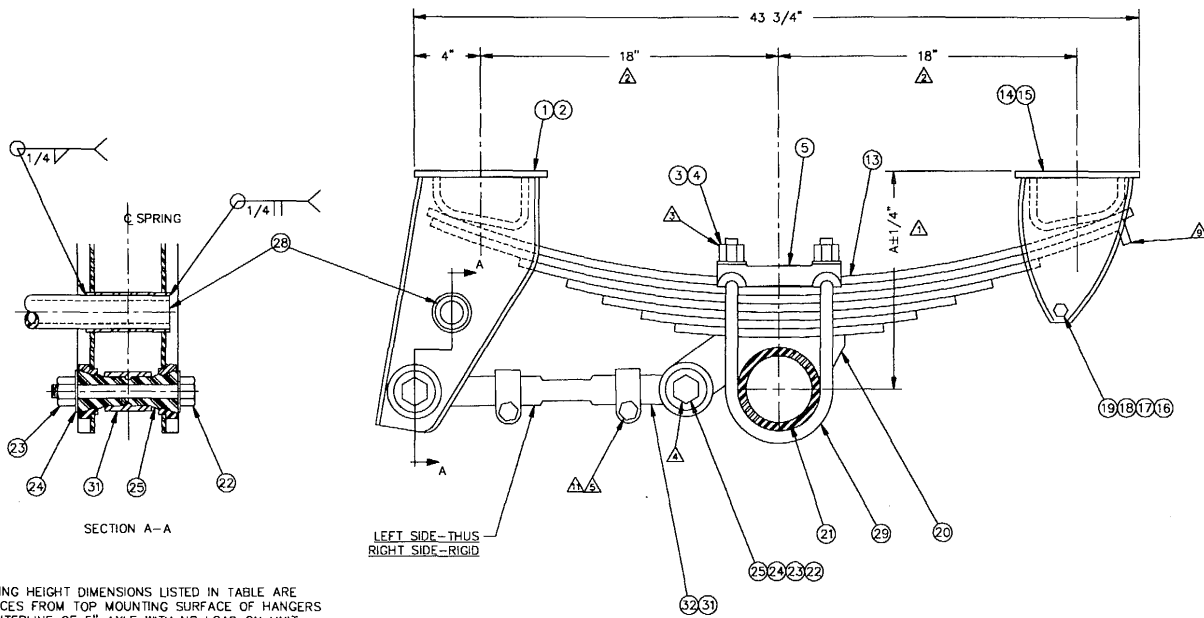
Model 21B Single Axle Suspension

Model 21B Tandem Axle Suspension

Model 21 B Triple Axle Suspension

TM 5-3895-374-24P

▲ NOMINAL HT. ▲ REF.B/M	"A" DIM.	NOMINAL SEAT HEIGHT	SPRING CAMBER
13	13 1/4	3/4	LOW



page C3 - 2

NOTE:

- ▲ MOUNTING HEIGHT DIMENSIONS LISTED IN TABLE ARE DISTANCES FROM TOP MOUNTING SURFACE OF HANGERS TO CENTERLINE OF 5" AXLE WITH NO LOAD ON UNIT
- ▲ SPACING SHOULD BE HELD TO A TOLERANCE OF  $\pm 1/16"$
- ▲ TIGHTEN 3/4" AND 7/8" U-BOLT NUTS TO A TORQUE OF 300 FT.LBS.
- ▲ TIGHTEN TORQUE ARM BOLT NUTS TO A TORQUE OF 200 FT.LBS.
- ▲ TIGHTEN TORQUE ARM TUBE CLAMP NUTS TO A TORQUE OF 80 FT.LBS. (FOR FABRICATED TORQUE ARM ENDS).
- 6. ESTIMATED WEIGHT 344 LBS.-AS SHOWN WITH T-3086 SPRINGS, 3/4" U-BOLTS, 5" ROUND AXLE AND 3/4" HIGH SEATS
- 7. SEE DRAWING 63200 FOR AXLE SEAT WELD SPECIFICATIONS
- ▲ SEE BILL OF MATERIAL 70137 FOR PARTS LIST
- ▲ INSTALL SPRINGS WITH HOOK TO REAR
- 10. DIMENSIONS ARE SHOWN IN INCHES
- ▲ TIGHTEN NUTS ON CAST ADJUSTABLE TORQUE ARM ENDS TO 150 FT.LBS.

SINGLE AXLE-REYCO MODEL 21B1XX-WBXX-00-X  
 MODEL 21B  
 DRAWING NO. 70137-1

**MATERIAL LIST**  
**For Drawing #70137-1 Shown On Reverse Side**

Item	Part No.	No. Req.	Description
1	09832-01	1	Hanger, Front Right, Fabricated
T-5562		1	Hanger, Front Right, Weld On Cast
T-5424		1	Hanger, Front Right, Flange Mount
2	09832-01	1	Hanger, Front Left, Fabricated
T-5563	1		Hanger, Front Left, Weld On Cast
T-5425	1		Hanger, Front Left, Flange Mount
3	T-5497	8	Locknut 3/4"
4	T-5496	8	Washer 3/4"
5	**T-5488	2	Top U Bolt Plate
12		2	Spring
14	08595-01	1	Hanger, Rear Left, Fabricated
T-5565		1	Hanger, Rear Left, Weld On Cast
T-5429		1	Hanger, Rear Left, Flange Mount
15	08595-01	1	Hanger, Rear Right, Fabricated
T-5566		1	Hanger, Rear Right, Weld On Cast
T-5428	1		Hanger, Rear Right, Flange Mount
16	T-5544	2	Cap Screw 1/2"x 4 3/4"
17	T-1-7 4	2	Hex Nut 1/2"
18	T-1705	2	Lockwasher 1/2"
19	T-2106	2	Spring Roller
20	*09730-01	2	Axle Seat
21		1	Axle (Not Furnished)
22	T-5492	4	Torque Arm Bolt 1" x 6 3/4"
23	T-5495	4	Locknut 1"
24	T-2224	8	Compression Washer - Torque Arm
25	T-5493	8	Torque Arm Bushing
26	T-7635	1	Rigid Troque Arm - Front
28		1	Pipe Brace (Not Furnished)
29	*08554-01	4	U Bolt
31	15172-01	1	Adj. Torque Arm Assy. - Front
34	**T-5514	2	Bottom Plate (Inverted Mtg. Only)
35	***T-5166	4	Spring Liner
37	****T-7655	2	Spacer Block 2"

Torque Arms Include: 15013-01 Left Hand End  
15013-02 Right Hand End  
11010-01 Locknut 3/4"  
12916-01 Hx. Hd. Cap Screw 3/4" - 2 1/2"

\*Use with 13, 14, 15" mounting height. With 16, 17, 18" use 08757-01 Axle Seat and 08561-01 U Bolts if using 11,000 pound capacity springs. U Bolts change with different spring capacities.

\*\*With Inverted mounting only, Item 5 is 11760-01 and Item 34 is used. U Bolt change accordingly.

\*\*\*Used with single and three leaf springs only.

\*\*\*\*Used with single leaf spring.

**MATERIAL LIST**

**For Drawing #70137-1 Shown On Reverse Side**

Item	Part No.	No. Req.	Description
1	09832-01	1	Hanger, Front Right, Fabricated
	T-5562	1	Hanger, Front Right, Weld On Cast
	T-5424	1	Hanger, Front Right, Flange Mount
2	09832-01	1	Hanger, Front Left, Fabricated
	T-5563	1	Hanger, Front Left, Weld On Cast
	T-5425	1	Hanger, Front Left, Flange Mount
3	T-5497	8	Locknut 3/4"
4	T-5496	8	Washer 3/4"
5	**T-5488	2	Top U Bolt Plate
12		2	Spring
14	08595-01	1	Hanger, Rear Left, Fabricated
	T-5565	1	Hanger, Rear Left, Weld On Cast
	T-5429	1	Hanger, Rear Left, Flange Mount
15	08595-01	1	Hanger, Rear Right, Fabricated
	T-5566	1	Hanger, Rear Right, Weld On Cast
	T-5428	1	Hanger, Rear Right, Flange Mount
16	T-5544	2	Cap Screw 1/2"x 4 3/4"
17	T-1-7042	2	Hex Nut 1/2"
18	T-1705 2	2	Lockwasher 1/2"
19	T-2106 2	2	Spring Roller
20	*09730-01	2	Axle Seat
21		1	Axle (Not Furnished)
22	T-5492 4	4	Torque Arm Bolt 1" x 6 3/4"
23	T-5495 4	4	Locknut 1"
24	T-2224 8	8	Compression Washer - Torque Arm
25	T-5493 8	8	Torque Arm Bushing
26	T-7635 1	1	Rigid Troque Arm - Front
28		1	Pipe Brace (Not Furnished)
29	*08554-01	4	U Bolt
31	15172-01	1	Adj. Torque Arm Assy. - Front
34	**T-5514	2	Bottom Plate (Inverted Mtg. Only)
35	***T-5166	4	Spring Liner
37	****T-7655	2	Spacer Block 2"

Torque Arms Include: 15013-01 Left Hand End  
 15013-02 Right Hand End  
 11010-01 Locknut 3/4"  
 12916-01 Hx. Hd. Cap Screw 3/4" - 2 1/2"

\*Use with 13, 14, 15" mounting height. With 16, 17, 18" use 08757-01 Axle Seat and 08561-01 U Bolts if using 11,000 pound capacity springs. U Bolts change with different spring capacities.

\*\*With Inverted mounting only, Item 5 is 11760-01 and Item 34 is used. U Bolt change accordingly.

\*\*\*Used with single and three leaf springs only.

\*\*\*\*Used with single leaf spring.

**MATERIAL LIST**  
**For Drawing #70137-1 Shown On Reverse Side**

<u>Item</u>	<u>Part No.</u>	<u>No. Req.</u>	<u>Description</u>
1	09832-01	1	Hanger, Front Right, Fabricated
	T-5562	1	Hanger, Front Right, Weld On Cast
	T-5424	1	Hanger, Front Right, Flange Mount
2	09832-01	1	Hanger, Front Left, Fabricated
	T-5563	1	Hanger, Front Left, Weld On Cast
	T-5425	1	Hanger, Front Left, Flange Mount
3	T-5497	8	Locknut 3/4"
4	T-5496	8	Washer 3/4"
5	**T-5488	2	Top U Bolt Plate
12		2	Spring
14	08595-01	1	Hanger, Rear Left, Fabricated
	T-5565	1	Hanger, Rear Left, Weld On Cast
	T-5429	1	Hanger, Rear Left, Flange Mount
15	08595-01	1	Hanger, Rear Right, Fabricated
	T-5566	1	Hanger, Rear Right, Weld On Cast
	T-5428	1	Hanger, Rear Right, Flange Mount
16	T-5544	2	Cap Screw 1/2"x 4 3/4"
17	T-1704	2	Hex Nut 1/2"
18	T-1705	2	Lockwasher 1/2"
19	T-2106	2	Spring Roller
20	*09730-01	2	Axle Seat
21		1	Axle (Not Furnished)
22	T-5492	4	Torque Arm Bolt 1" x 6 3/4"
23	T-5495	4	Locknut 1"
24	T-2224	8	Compression Washer - Torque Arm
25	T-5493	8	Torque Arm Bushing
26	T-7635	1	Rigid Troque Arm - Front
28		1	Pipe Brace (Not Furnished)
29	*08554-01	4	U Bolt
31	15172-01	1	Adj. Torque Arm Assy. - Front
34	**T-5514	2	Bottom Plate (Inverted Mtg. Only)
35	***T-5166	4	Spring Liner
37	****T-7655	2	Spacer Block 2"

Torque Arms Include:           15013-01 Left Hand End  
   15013-02 Right Hand End  
   11010-01 Locknut 3/4"  
   12916-01 Hx. Hd. Cap Screw 3/4" - 2 1/2"

\*Use with 13, 14, 15" mounting height. With 16, 17, 18" use 08757-01 Axle Seat and 08561-01 U Bolts if using 11,000 pound capacity springs. U Bolts change with different spring capacities.

\*\*With Inverted mounting only, Item 5 is 11760-01 and Item 34 is used. U Bolt change accordingly.

\*\*\*Used with single and three leaf springs only.

\*\*\*\*Used with single leaf spring.

**MATERIAL LIST**

**For Drawing #84164 Shown on Reverse Side**  
**(Use With Drawing #83006)**

Item	Part No.	No. Req.	Description
3	T-5497	24	Locknut 3/4"
4	T-5496	24	Washer 3/4"
5	T-5488	6	Top U Bolt Plate 5" Round Axle
	T-1734	6	Top U Bolt Plate 5" x 5" Square Axle
	09987-01	6	Top U Bolt Plate 4" x 6" Rect. Axle
	6 14684-01	4	Equalizer Bracket
	7 14683-01	4	Equalizer Shaft
	8 08914-01	4	Equalizer Shaft Nut
	10 14682-01	4	Equalizer Bushing
11		4	Equalizer & Bushing Assy. (See Below)
12		6	Spring
15	T-554410		Cap Screw 1/2" x 4 3/4"
16	T-170410		Hex Nut 1/2"
17	T-170510		Lockwasher 1/2"
18	T-210610		Spring Roller
19	09730-01	6	Axle Seat 5" Round, 3/4" High (For Other Styles Contact Factory)
20		3	Axle (Not Furnished)
21	T-549212	12	Torque Arm Bolt 1" x 6 3/4"
22	T-549512	12	Locknut 1"
23	T-222424	24	Compression Washer
24	T-549324	24	Bushing - Torque Arm
25		2	Rigid Torque Arm - Rear (See Below)
26		2	Adj. Torque Arm - Rear (See Below)
27			Pipe Brace 1 1/2" I.D. Heavy Wall Sched. 80 (Not Furnished)

<u>Axle Spacing</u>	<u>Torque Arms</u>		<u>Equalizer Assy.</u>	
	<u>Rear Rigid</u>	<u>Rear Adj.</u>	<u>Includes 14682-01</u>	<u>Bushing</u>
50"	15286-01-19 3/8"		15173-01	14689-01
54"	10183-01-21 9/16"		15174-01	14693-01
60"	09686-01-25"		15176-01	14696-01
63 1/2"	10973-01-26 1/4"		15177-01	14700-01
65 1/2"	08650-01-27 1/4"		15177-01	14700-01

Torque Arms Include: 15013-01 Left Hand End  
 15013-02 Right Hand End  
 11010-01 Locknut 3/4"  
 12916-01 Hx. Hd. Cap Screw 3/4" - 2 1/2"



**MATERIAL LIST**  
**For Drawing #83006 Shown on Reverse Side**

Item	Part No.	No. Req.	Description
1 & 2	09832-01	2	Front Spring Hanger Left/Right
3	T-5497	16	Locknut 3/4"
4	T-5496	16	Washer 3/4"
5	T-5488	4	Top U Bolt Plate 5" Round Axle
	T-1734	4	Top U Bolt Plate 5" x 5" Square Axle
	09987-01	4	Top U Bolt Plate 4" x 6" Rect. Axle
6	14684-01	2	Equalizer Bracket
7	14683-01	2	Equalizer Shaft
8	08914-01	2	Equalizer Shaft Nut
10	14682-01	2	Equalizer Bushing
11		2	Equalizer & Bushing Assy. (See Below)
12		4	Spring
13 & 14	08595-01	2	Rear Spring Hanger Left/Right
15	T-55446	6	Cap Screw 1/2" x 4 3/4"
16	T-17046	6	Hex Nut 1/2"
17	T-17056	6	Lockwasher 1/2"
18	T-21066	6	Spring Roller
19	09730-01	4	Axle Seat 5" Round, 3/4" High (For Other Styles Contact Factory)
20		2	Axle (Not Furnished)
21	T-54928	8	Torque Arm Bolt 1" x 6 3/4"
22	T-54958	8	Locknut 1"
23	T-222416	16	Compression Washer
24	T-549316	16	Bushing - Torque Arm
25		1	Rigid Torque Arm - Rear (See Below)
26		1	Adj. Torque Arm - Rear (See Below)
27			Pipe Brace 1 1/2" I.D. Heavy Wall Sched. 80 (Not Furnished)
28		8	U Bolt (Contact Factory)
*29	T-7635	1	Rigid Torque Arm - Front 16 1/4"
30	15172-01	1	Adj. Torque Arm - Front
31			Pipe Brace 1 1/2" I.D. Heavy Wall Sched. 80 (Not Furnished)
32	T-7560	8	Bottom U Bolt Clip 4" x 6" Axle
	T-5587	8	Bottom U Bolt Clip 5" x 5" Axle

Axle Spacing	Torque Arms		Equalizer Assy.
Rear Rigid	Rear Adj. Includes 14682-01		Bushing
50"	15286-01-19 3/8"	15173-01	14689-01
54"	10183-01-21 9/16"	15174-01	14693-01
60"	09686-01-25"	15176-01	14696-01
63 1/2"	10973-01-26 1/4"	15177-01	14700-01
65 1/2"	08650-01-27 1/4"	15177-01	14700-01

Torque Arms Include: 15013-01 Left Hand End  
15013-02 Right Hand End  
11010-01 Locknut 3/4"  
12916-01 Hx. Hd. Cap Screw 3/4" - 2 1/2"

\*Use T-7633 - 15 3/4" Front Rigid Torque Arm When Using T-7452 Springs in 50" Axle Spacing.

**SECTION C4**

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
38400	Western Scale Co. Ltd. 1670 Kingsway Avenue Port Coquitlam British Columbia Canada V3C 3Y9	(604) 941-3474	

Description of Components: Asphalt Calibration Scale Indicator

Components:

Model dF2000 Digital Weight Indicator

There are no component parts required. Refer to the Maintenance Manual for additional information.

**SECTION C5**

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
51729	Dresser Industries Inc. Roots Division 900 West Mount Street Connersville, Indiana 47331	(317) 827-9200	(317) 825-7669

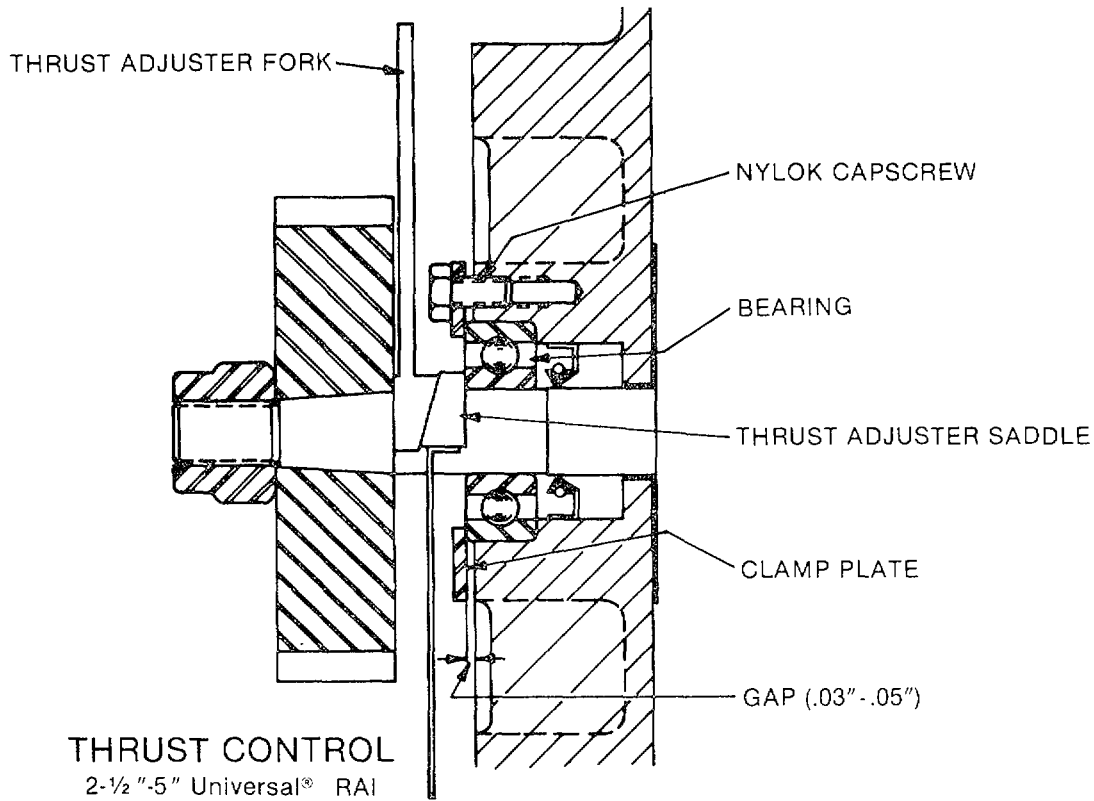
Description of Components:                      Fines Blower

Components:

Model 93A, 47U-RAI

Table 6 - Normal Clearances for UNIVERSAL RAI® Blowers - Inches (MM)

SIZE	IMPELLER ENDS	CYLINDER				IMPELLER
	TOTAL	DRIVE END MINIMUM	GEAR END MINIMUM	INLET & DISCHARGE	CENTER	FRONTS BACKS
22	.006/1.100 (.15-.25)	.003 (.08)	.003 (.08)	.004/.005 (.1-.13)	.002/.003 (.05-.08)	.007/.01 (.18-.25)
24	.006/1.100 (.15-.25)	.003 (.08)	.003 (.08)	.004/.005 (.1-.13)	.002/.003 (.05-.08)	.007/.01 (.18-.25)
32	.006/.011 (.15-.28)	.003 (.08)	.003 (.08)	.004/1.006 (.10-.15)	.002/.003 (.05-.08)	.01/.012 (.25-.30)
33	.006/.011 (.15-.28)	.003 (.08)	.003 (.08)	.004/.006 (.10-.15)	.002/.003 (.05-.08)	.01/.012 (.25-.30)
36	.006/.011 (.15-.28)	.003 (.08)	.003 (.08)	.004/.006 (.10-.15)	.002/.003 (.05-.08)	.01/.012 (.25-.30)
42	.008/.011 (.20-.28)	.004 (.10)	.004 (.10)	.005/.007 (.13-.18)	.003/.004 (.08-.10)	.009/.012 (.23-.30)
45	.008/.013 (.20-.33)	.004 (.10)	.004 (.10)	.005/.007 (.13-.18)	.003/1.004 (.08-.10)	.012/.015 (.3-.38)
47	.008/.013 (.20-.33)	.004 (.10)	.004 (.10)	.005/.007 (.13-.18)	.003/.004 (.08-.10)	.012/.015 (.3-.38)
53	.008/.011 (.20-.28)	.004 (.10)	.004 (.10)	.005/.008 (.13-.20)	.003/.004 (.08-.10)	.011/.013 (.28-.33)
56	.008/.013 (.20-.33)	.004 (.10)	.004 (.10)	.005/.008 (.13-.20)	.003/.004 (.08-.10)	.015/.017 (.38-.43)
59	.008/.013 (.20-.33)	.004 (.10)	.004 (.10)	.005/.008 (.13-.20)	.003/.004 (.08-.10)	.015/.017 (.38-.43)
65	.012/.016 (.30-.40)	.008 (.20)	.004 (.10)	.006/.008 (.15-.2)	.006/1.008 (.15-.20)	.010/.014 (.25-.36)
68	.014/.018 (.36-.46)	.010 (.25)	.004 (.10)	.006/.008 (.15-.2)	.006/.008 (.15-.20)	.010/.014 (.25-.36)
615	.014/.018 (.36-.46)	.010 (.25)	.004 (.10)	.006/.008 (.15-.2)	.006/1.008 (.15-.20)	.010/.014 (.25-.36)
76	.012/.016 (.30-.40)	.008 (.13)	.004 (.10)	.006/.008 (.15-.2)	.006/.008 (.15-.20)	.013/1.015 (.33-.38)
711	.014/.018 (.36-.46)	.010 (.25)	.004 (.10)	.006/1.008 (.15-.2)	.006/.008 (.15-.20)	.013/1.015 (.33-.38)
718	.014/.018 (.36-.46)	.010 (.25)	.004 (.10)	.006/.008 (.15-.2)	.006/.008 (.15-.20)	.013/.015 (.33-.38)



K-24392

Figure 6 - Thrust Setting, 2 1/2"-5" UNIVERSAL RAI®

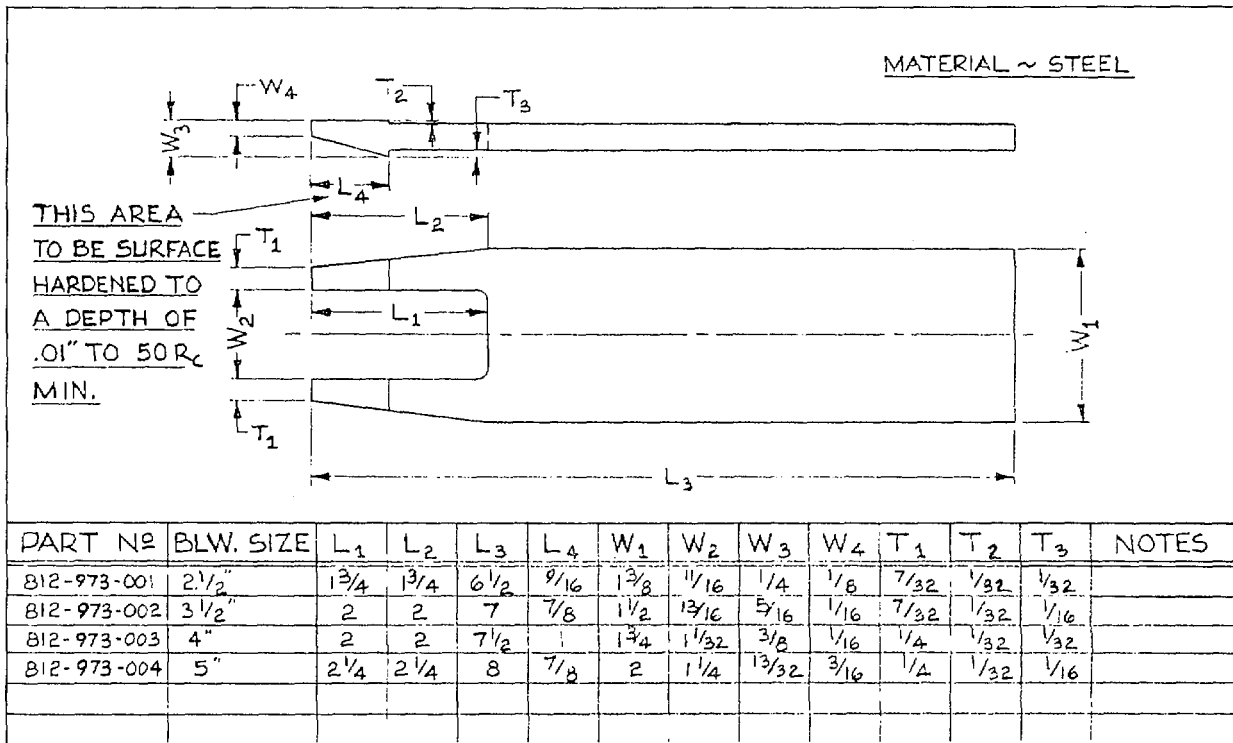


Figure 7 Thrust Adjuster Fork 812-973

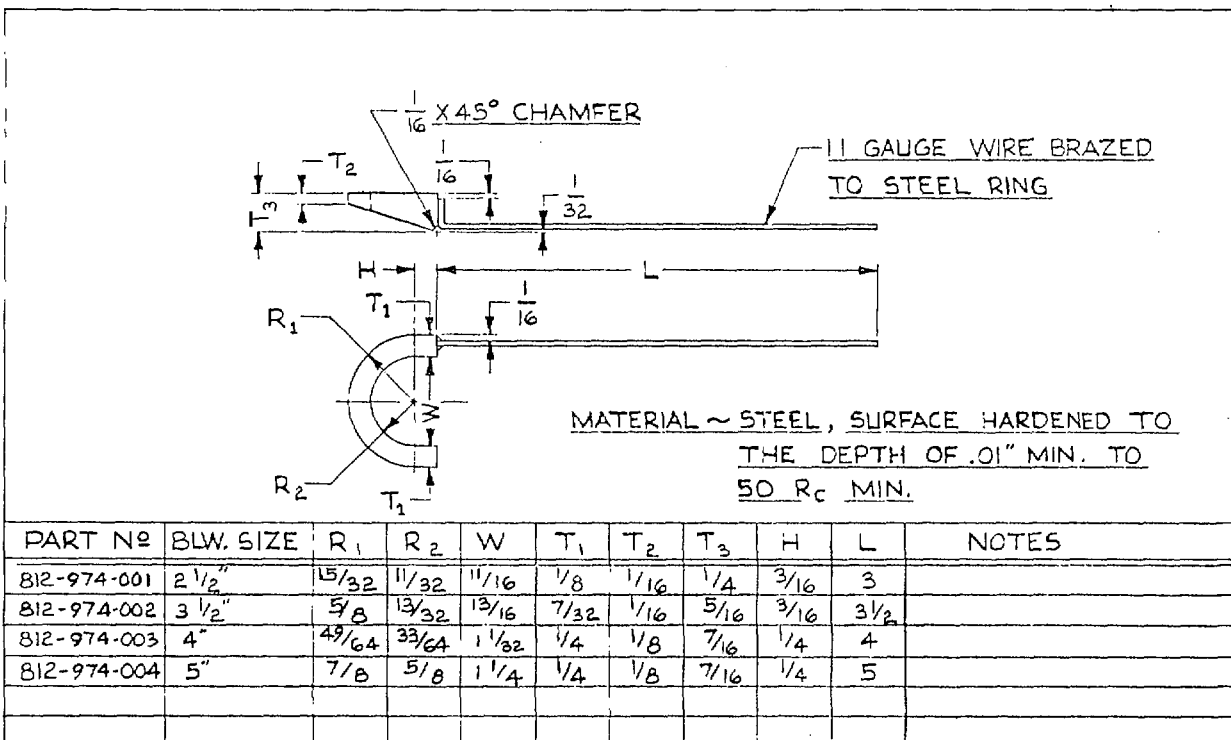


Figure 8 - Thrust Adjuster Saddle

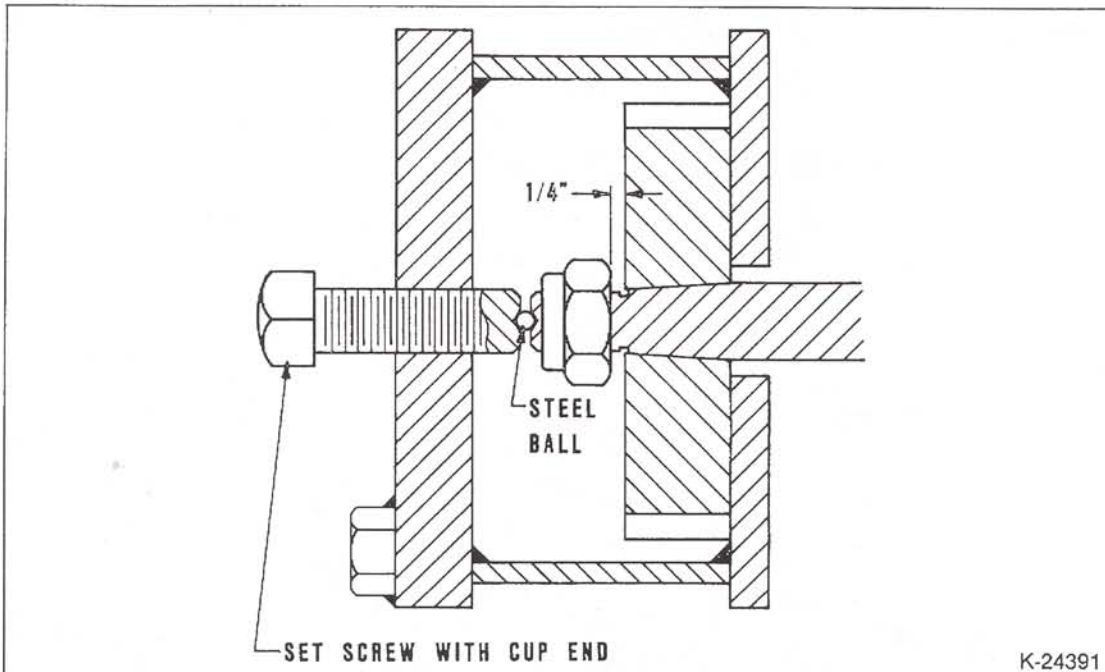


Figure 9 - Gear Removal

K-24391

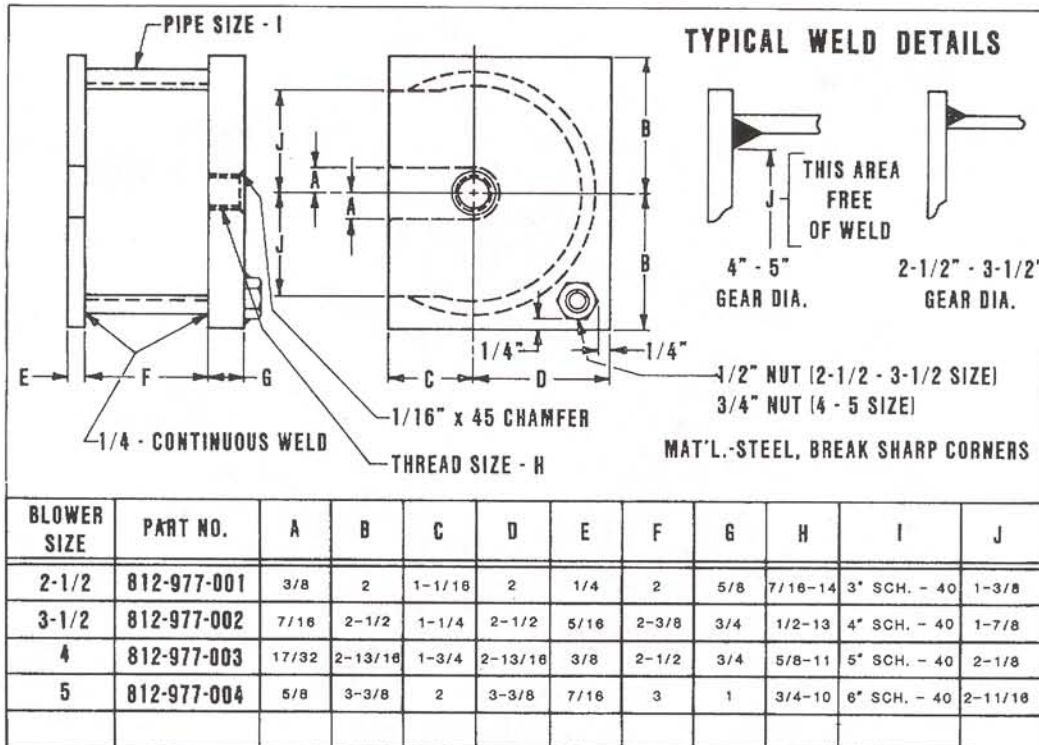


Figure 10 - Gear Pullers for UNIVERSAL RAI with Tapered Gear Bores 812-977-

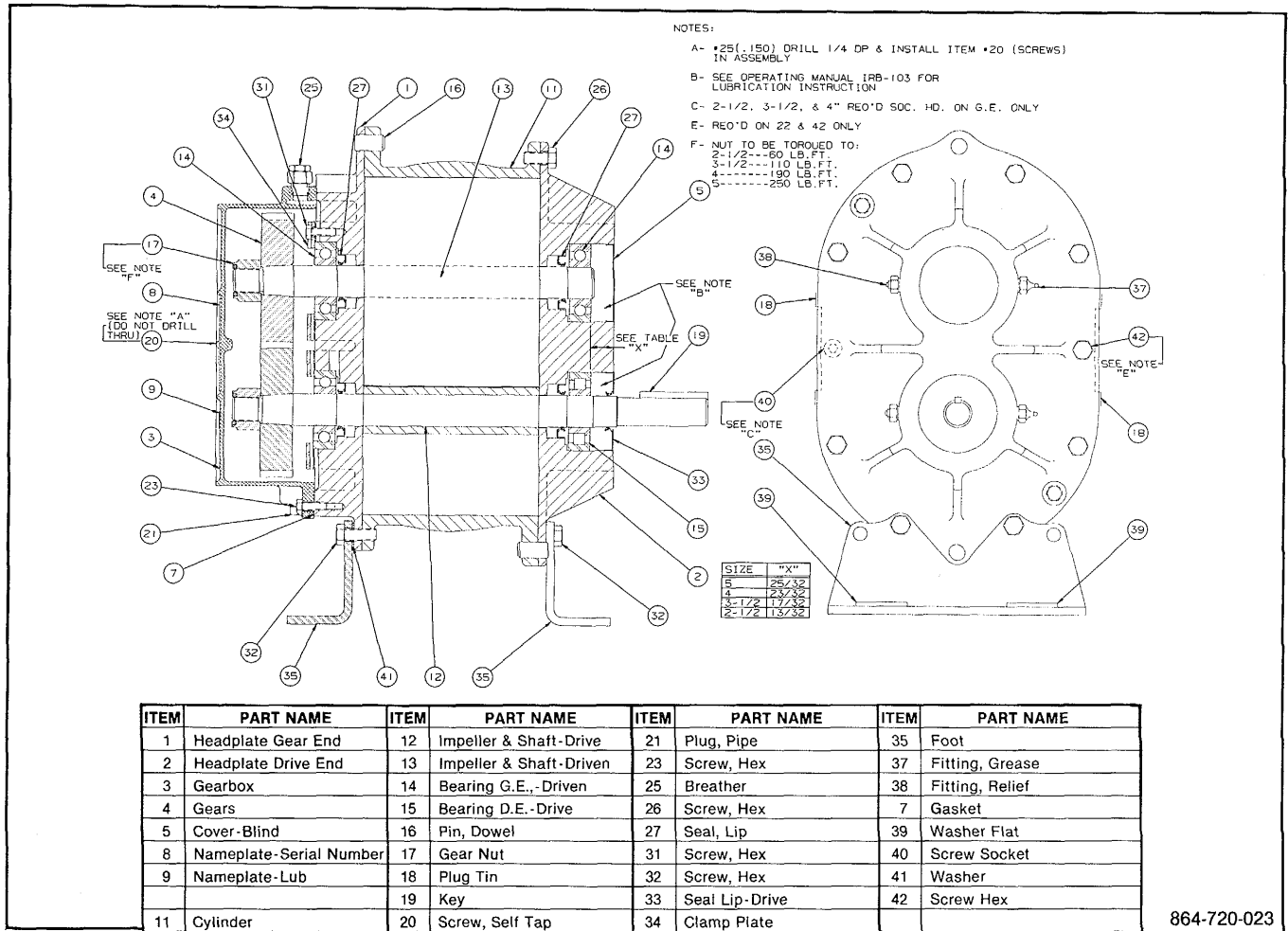


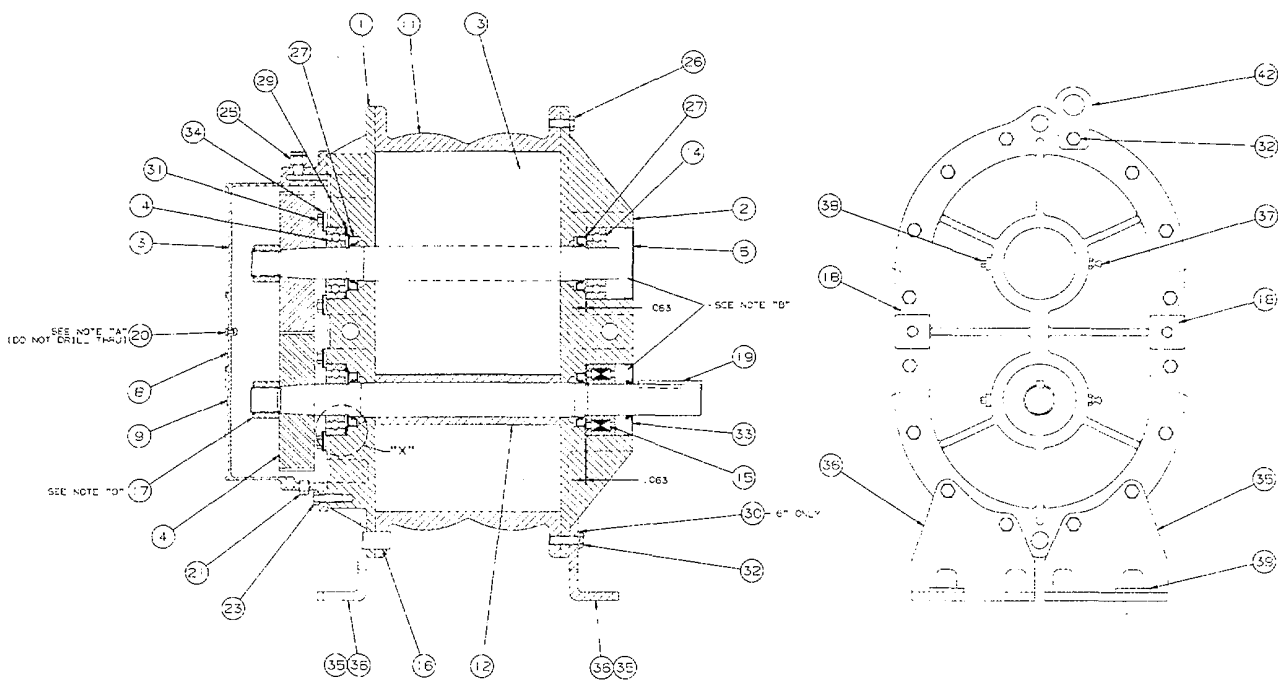
Figure 11 - Assembly of UNIVERSAL RAI® Blowers, 2 1/2"-5" Gear Diameter

REPAIR KIT INFORMATION

UNIVERSAL RAI®

REF. NO.	QTY.	PART DESCRIPTION	REPAIR KIT FRAME SIZE.	PART NOS. REPAIR KIT NO
4	1 Pr.	Timing Gear	2"	65-101-ORK
5	1	Plug - Opening	3"	65-104-ORK
7	1	Gasket	4"	65-107-ORK
14	1	Bearing, D.E. - DRVN	5"	65- 11-ORK
14	2	Bearing, G.E.	*6"	65-115-ORK
15	1	Bearing, Dr.. Shaft	'7	65-119-ORK
17	1	Gear Nut"		
27	2	Seals, D.E.		
27	2	Seais, G.E.		
31	4	Capscrew - Selflock		
33	1	Seal - Dr. Shaft		

\*Repair kits for the 6" and 7" UNIVERSAL RAI- do not contain gears.



SEE BACK COVER FOR NEAREST DISTRIBUTOR.



ROOTS AUTHORIZED DISTRIBUTOR LIST TM 5-3895-374-24P

**ALABAMA**

\*Hydromatics Inc. (IS03)  
916 Belcher Drive  
Patham, AL 35124  
205/654-0336  
Fax: 205/663-2194  
  
\*Jim House & Associates, Inc. (IS10)  
P.O. Box 320129  
Birmingham, AL 35232  
16 N. 49th St. (35222)  
205/592-6302  
Fax: 205/592-6209

**ARIZONA**

Ainetics Engineering Company (W01)  
4130 East Madison Street  
Phoenix, AZ 85034  
602/273-1964  
Fax: 602/273-0108

**ARKANSAS**

\*Arkansas Industrial Machinery (S02)  
3804 North Nona Street  
North Little Rock, AR 72118  
501/758-2745  
Fax: 501/758-3223

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\*American Compressor Company (W02)  
10144 Freeman Avenue  
Santa Fe Springs, CA 90670  
310/944-6188  
Fax: 310/946-6365  
  
J. J. Ban Company (W08)  
P.O. Box 4644  
Walnut Creek, CA 94596  
3000 Citrus Circle  
Suite 220 Zip 94599 (Shipping)  
510/944-0434  
Fax: 510/947-3978

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Fluid Technology, Inc. (W06)  
1315 Nelson #4  
Lakewood, CO 80215  
303/233-7400  
Fax: 303/233-0093

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Argo Industries (E04)  
101 Goodwin Street  
East Hartford, CT 06108  
203/528-9454  
Fax: 203/528-7392

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Barney's Pumps, Inc. (S03)  
12080 N.W. 40th Street  
Coral Springs, FL 33309  
305/346-0669  
Fax: 305/346-0993  
  
\*Barney's Pumps, Inc. (S03)  
P.O. Box 3529  
3907 Highway 98 South  
Lakeland, FL 33802-3529  
813/665-8600  
Fax: 813/668-3858  
  
Barney's Pumps of Jacksonville (S03)  
P.O. Box 56170  
Jacksonville, FL 32241-6170  
11305 Business Park Blvd. (32256)  
904/260-0669  
Fax: 904/260-4913

**GEORGIA**

Pye-Barker Supply Co. (S11)  
2805 Palmyra Road  
Albany, CA 31707  
912/436-2479  
Fax: 912/883-6222  
  
\*Pye-Barker Supply Co. (S11)  
P.O. Box 1387  
Forest Park, GA 30051  
121 Royal Drive (30050)  
404/363-8000  
Fax: 404/361-8579  
  
Pye-Barker Supply Co. (S11)  
P.O. Box 2228  
11 Magazine Avenue  
Savannah, GA 31402  
912/238-0303  
Fax: 912/238-6214

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P.O. Box 30188  
Honolulu, HI 96820-0188  
719 Ahua Street (96819)  
808/839-7731  
Fax: 808/839-7874

**ILLINOIS**

\*AMCO Industries  
Compressor Engrg. Co. (M05)  
625 District Drive  
Itasca, IL 60143  
708/773-1100  
Fax: 708/773-1063  
  
Cochrane Compressor Co. (M04)  
819 S.W. Adams  
Peoria, IL 61602  
309/674-5104  
Fax: 309/674-5242  
  
\*Cochrane Compressor Co. (M04)  
2209 3rd Avenue  
Rock Island, IL 61201  
815/965-1860  
Fax: 815/965-1874  
  
\*Cochrane Compressor Co. (M04)  
4533 West North Ave.  
Melrose Park, IL 60160  
708/345-0225  
Fax: 708/345-1339  
  
\*Cochrane Compressor Co. (M04)  
506 North Madison  
Rockford, IL 61107  
815/965-1860  
Fax: 815/965-1874

**INDIANA**

AMCO Industries  
Compressor Engrg. Co. (M05)  
1994 Griffith Boulevard, Unit E  
Griffith, IN 46319  
219/923-8300  
Fax: 219/923-8324  
  
\*Powered Equipment & Repair (M10)  
P.O. Box 147  
Terre Haute, IN 47808-0147  
600 Voorhees (47802)  
812/232-0241  
800/234-0404  
Fax: 812/232-0055

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9010 Rosehill Road  
Lenexa, KS 66215  
913/492-7991  
Fax: 913/492-7994

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Louisville, KY 40218  
502/452-6312  
Fax: 502/458-0791

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9929 Florida Blvd.  
P.O. Box 969 (70727)  
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504/665-1666  
Fax: 504/665-1855  
  
\*Gulf States Engineering (S08)  
P.O. Box 28156 (70186)  
252 Harbor Circle  
New Orleans, LA 70126  
504/241-8510  
504/243-5500 (Sales)  
Fax: 504/242-4444  
504/243-9508 (Sales)

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\*Cole Compressor (E07)  
1201A Ridgely Street  
Baltimore, MD 21230  
410/539-3883  
Fax: 410/539-3905  
  
\*Tate Eastern Shore (E07)  
RD 3, Box 856  
Delmar, MD 21875  
410/546-3293  
Fax: 410/546-3461

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\*PEECO, Inc. (E13)  
10 Brent Drive  
Hudson, MA 01749  
508/562-9112  
800/762-9720 (M4)  
800/225-9242 (CT, ME, NH, RI & VT)  
Fax: 508/562-8915

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\*Air Components & Engineering, Inc. (M01)  
1181 58th Street, S.W.  
Grand Rapids, MI 49509  
616/532-1181  
Fax: 616/532-0099  
  
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3205 Bermuda  
Ferndale, MI 48220  
313/544-2982  
Fax: 313/544-2027

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1754 Washington Avenue North  
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612/430-1055  
Fax: 612/430-3947

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4881 155 South  
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601/373-1999  
Fax: 601/373-1580

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2800 Locust Street  
St. Louis, MO 63103  
314/534-3100  
Fax: 314/533-0022  
  
\*St. Louis Compressor Service Co. (M13)  
3863 Leclaire Avenue  
St. Louis, MO 63108  
314/652-3400  
Fax: 314/652-3405

**NEW JERSEY**

Argo Industrial (E03)  
33 Terminal Avenue  
Clark, NJ 07066  
908/574-2400  
Fax: 908/574-2339  
  
\*Argo Industrial (E05)  
1707 Imperial Way  
Thornhove, NJ 08066  
609/848-4200  
Fax: 609/848-9077  
  
\*R & M Associates, Inc. (E14)  
2 Main Street  
Ridgedale Park, NJ 07660  
201/641-0051  
800/635-4500  
Fax: 201/641-7538

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Mesa Equipment & Supply Co., Inc. (S14)  
3820 Commons Avenue, N.E.  
Albuquerque, NM 87109  
505/345-0281  
Fax: 505/345-9227

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Long Island City, NY 11101  
718/784-7965  
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\*Siewert Equipment Co., Inc. (M12)  
175 Akron Street  
Rochester, NY 14609  
716/482-9640  
Fax: 716/482-4513 (Parts)  
716/482-4149 (Sales)

**NORTH CAROLINA**

\*Edmac Compressor Co. (E08)  
P.O. Box 227  
1151 M. L. King Drive  
Winston-Salem, NC 27102-0227  
919/725-2395  
Fax: 919/725-2161

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9001 Dutton Drive  
Twinsburg, OH 44087-0407  
216/425-3121  
Fax: 216/425-4612  
  
Craun-Liebing Company (M06)  
1214 California Avenue  
Akron, OH 44314  
216/745-6544  
Fax: 216/745-1110

Craun-Liebing Company (M06)  
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216/228-7900  
Fax: 216/228-7905  
  
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Blacklick, OH 43004  
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Fax: 614/864-0326

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Cincinnati, OH 45246  
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800/447-8962  
Fax: 513/874-5508  
  
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5131 Webster Street  
Dayton, OH 45414  
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Fax: 513/278-0270

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216/265-0666  
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419/891-3571  
Fax: 419/891-1928

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405/255-0409  
  
\*Duncan Equipment Co. (S07)  
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901/363-2200  
Fax: 901/363-6804

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901/363-2200  
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Fax: 615/823-4924

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Dallas, TX 75244  
214/701-0400  
Fax: 214/385-0936  
  
Shipping/Billing  
13717 Neutron Road  
Dallas, TX 75244  
Fax: 214/448-2625  
  
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Carrollton, TX 75006  
214/416-1126  
Fax: 214/416-7486  
  
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12101 FM 529  
Houston, TX 77041  
713/886-6611  
Fax: 713/896-1893  
  
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13645 Omega  
Dallas, TX 75244  
214/233-9870  
Fax: 214/233-1878  
  
Dieck Supply Air & Pump Co. (S06)  
585 South Padre Island Dr.  
Corpus Christi, TX 78405  
512/289-7000  
Fax: 512/289-9071  
  
Duncan Equipment Co. (S07)  
3511 N. Central Freeway  
Wichita Falls, TX 76706  
817/855-6110  
Fax: 817/855-0849

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3333 West 2400 South  
Salt Lake City, UT 84119  
801/973-0184  
Fax: 801/973-9546

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Tazewell, VA 24651  
703/989-2548  
Fax: 703/989-9325  
  
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P.O. Box 547  
East Patricia Ann Lane  
Appomattox, VA 24522  
804/352-2085  
Fax: 804/352-0795  
  
\*Engineered Systems & Products, Inc. (E09)  
8130 Virginia Pine Court  
Richmond, VA 23237  
804/271-7200  
Fax: 804/271-8317

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\*Rogers Machinery Co., Inc. (W09)  
P.O. Box 548  
3409 Gevin Road  
Centralia, WA 98531  
206/736-9356  
Fax: 206/736-8630  
  
\*Rogers Machinery Co., Inc. (W09)  
7500 First Avenue South  
Seattle, WA 98108  
206/763-2530  
Fax: 206/763-1187  
  
\*Rogers Machinery Co., Inc. (W09)  
Spokane Industrial Park  
East 18615 Spokane Avenue  
Spokane, WA 99215  
509/922-0556  
Fax: 509/922-0910

**WEST VIRGINIA**

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P.O. Box 150  
Chapmanville, WV 25508  
304/855-4501  
Fax: 304/855-8601  
  
West Virginia Pumps/Goulds Pumps (E16)  
RD 3, 20 East 24th Street  
Huntington, WV 25721  
304/529-4161  
Fax: 304/522-9361

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\*Compression & Components Co., Inc. (W04)  
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1907 Salt Creek Highway  
Mills, WY 82604  
307/235-4700  
Fax: 307/235-3028

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\*A. G. Dunbar Co., Ltd. (C01)  
10 Morris Drive, Unit 9  
Burnside Industrial Park  
Dartmouth, Nova Scotia B3B 1K8  
902/468-1717  
Fax: 902/468-3157  
  
\*Beckland Equipment Ltd. (W03)  
3250 Beta Avenue  
Burnaby, B.C. V5G 4K4  
604/299-8808  
Fax: 604/299-6162

\*Canadian Air Compressor Ltd. (C02)  
1875 Industrial Boulevard  
Laval, Quebec H7S 1P5  
514/669-9117  
Fax: 514/334-3138

\*Canadian Air Compressor, Ltd. (C02)  
57 Atomic Avenue  
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416/252-9505  
800/387-7270  
Fax: 416/252-9228

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1515 Matheson Boulevard, Unit C-1  
Mississauga, Ontario L4W 2P5  
416/624-6330  
Fax: 416/624-7590

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5855 CH St. Francois  
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514/336-5661  
Fax: 514/336-1158

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011-61-3-338-3811  
Fax: 011-61-3-338-6136

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11 Borde Street  
Port of Spain, Trinidad, West Indies  
809/625-3043  
809/625-3160  
Fax: 809/627-0880

**ROOTS' AUTHORIZED TRUCK BLOWER DISTRIBUTOR LIST**

Canadian Air Compressor, Ltd.  
57 Atomic Avenue  
Toronto, Ontario M8Z 5K8, Canada  
416/252-9505  
800/387-7270  
Fax: 416/252-9228  
  
Don Johns Inc.  
1312 West Lake Street  
Chicago, IL 60607  
312/666-2210  
Fax: 312/666-0777  
  
Girard Equipment, Inc.  
P.O. Box 302-B  
1004 Route 1  
Rahway, NJ 07065  
908/382-4600  
800/526-4330  
Fax: 908/382-4650  
  
H.N.L. Corporation  
304 Leominster Road  
Sterling, MA 01584  
508/422-6222  
508/422-6486  
Fax: 508/422-8217  
  
Haygood of Atlanta, Inc.  
4325 Moreland Avenue  
P.O. Box 749  
Conley, GA 30027-0749  
404/366-4644  
800/999-0483  
Fax: 404/362-3591  
  
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Ft. Smith, AR 800/777-2119  
800/999-8884  
Springdale, AR 800/888-3150  
Orlando, FL 800/999-6281  
Lithonia, GA 800/455-0099  
Hammond, LA 800/444-7495  
Greenville, MS 800/456-6110  
Jackson, MS 800/888-6476  
Chattanooga, TN 800/444-9942  
Knoxville, TN 800/888-5409  
Memphis, TN 800/999-7443  
Nashville, TN 800/999-3251

Haygood, Inc.  
7901 Ambassador Row  
Dallas, TX 75247  
800/888-9791  
  
Joint Clutch & Gear Service, Inc.  
703 Marquette Avenue  
Bay City, MI 48706  
517/886-2924  
Fax: 517/886-9906  
  
Branches:  
Detroit, MI 313/961-4460  
800/999-8781  
Grand Rapids, MI 616/538-7390

The Power Train Co.'s  
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P.O. Box 41260  
Indianapolis, IN 46241  
317/241-9393  
800/899-3912  
Fax: 317/243-1433  
  
Branches:  
Fort Wayne, IN 800/999-3218  
Lafayette, IN 800/999-1098  
800/999-0288  
Richmond, IN 800/999-5707  
Elizabethtown, KY 800/999-6529  
Lexington, KY 800/999-6529  
Louisville, KY 800/999-8972  
Cincinnati, OH 800/999-0163

R & M Mobile Power Co.  
915 Madison Avenue  
P.O. Box 820  
Valley Forge, PA 19481  
215/665-0878  
800/362-0570  
Fax: 215/665-1766  
  
Trans-Spec Co.  
14852 Columbianna-Cantfield Road  
Columbianna, OH 44408  
216/482-5536

## SECTION C6

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
71956	Reliance Electric Corp Headquarters P.O. Box 248020 Cleveland, Ohio 44124-6106	(216) 266-5800	(216) 266-5885

**Description of Components:** Dodge Shaft Mounted Gear Reducers

**Components:**

**Model**      TXT425A  
**Model**      TXT825T  
**Model**      SCXT425A  
**Model**      SCXT225

Instruction Manual  
For



**TORQUE-ARM™**  
**Speed Reducers**  
**Straight Bore & Taper Bushed**

**SIZES:** TXT309A - TXT315A - TXT325A  
TXT409A - TXT415A - TXT425A  
TXT509B - TXT51 5B - TXT525B

**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Reliance Electric Industrial Company nor are the responsibility of Reliance Electric Industrial Company. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer output shaft.

**DODGE/P.O.** Box 499/6040 Ponders Court/Greenville, SC 29602-0499/803-297-4800

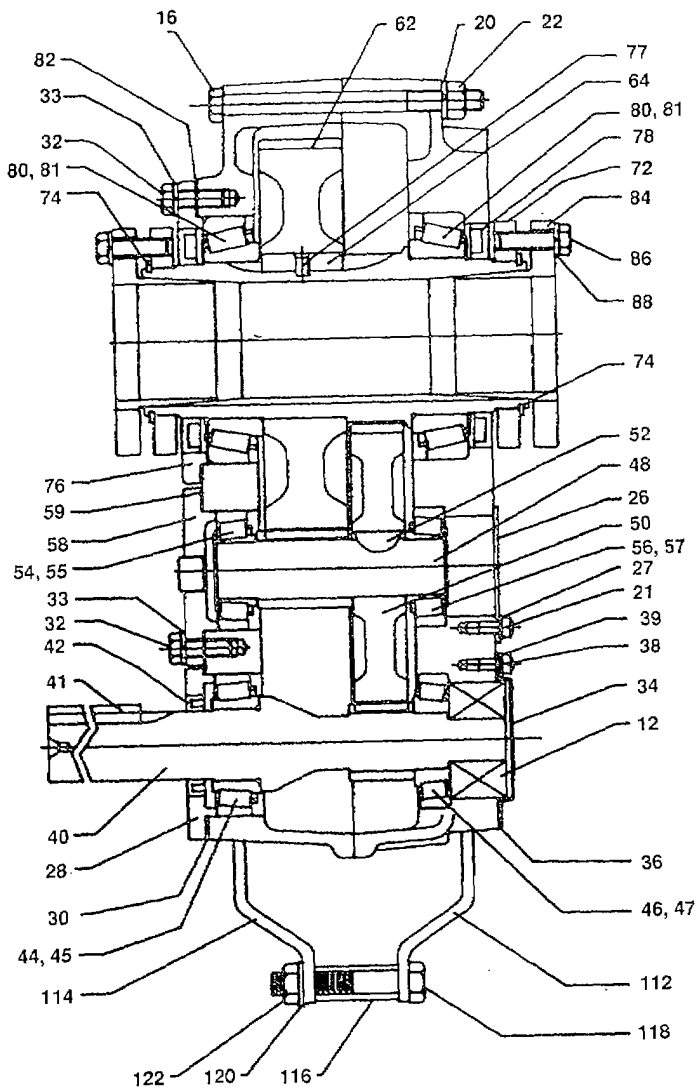
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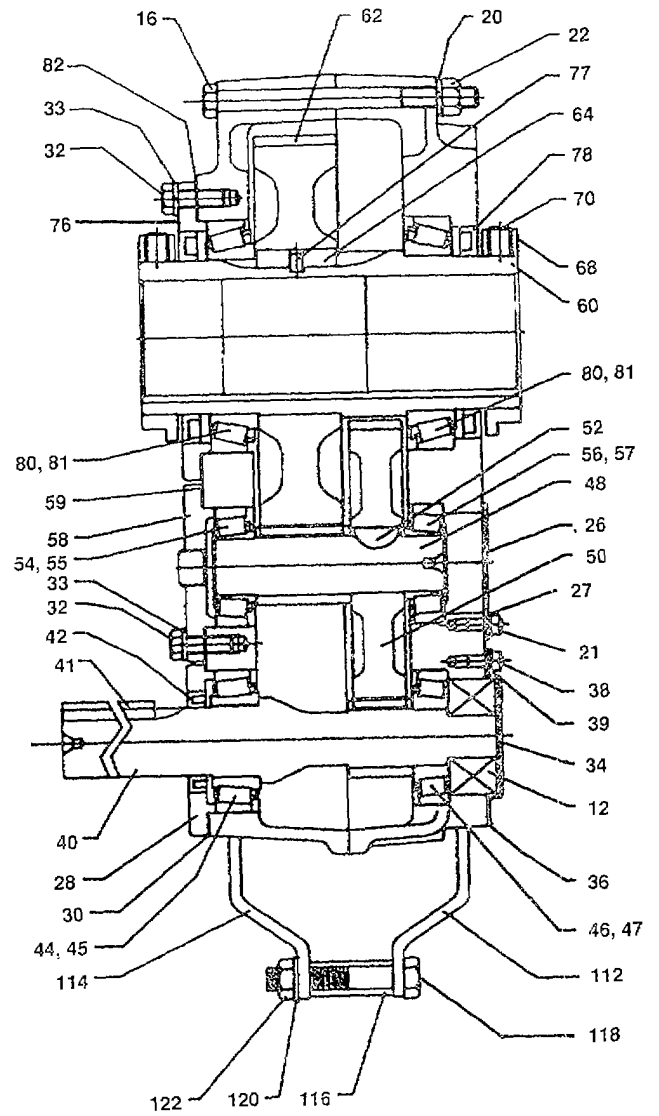
Printed in U.S.A.

Instruction Manual 499833

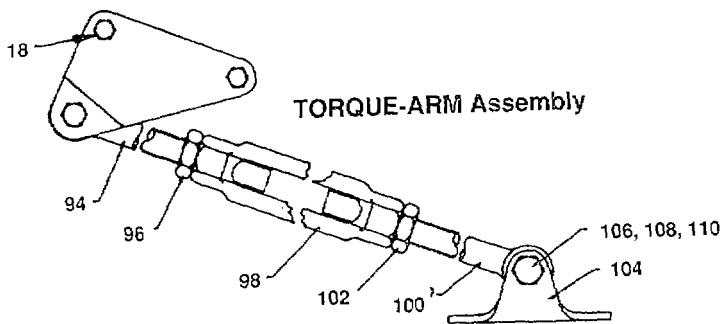
10/91 16M-K



Taper-Bushed



Straight Bore



TORQUE-ARM Assembly

**Note:** The two-digit numbers are for reference only. Order parts by the six-digit numbers in the Parts List. Each six-digit number is a complete identification of the part or assembly.

Reference	Name of Part	No. Req'd.	TXT3A Part No.	TXT4A Part No.	TXT5B Part No.	Reference	Name of Part	No. Req'd.	TXT3A Part No.	TXT4A Part No.	TXT5B Part No.		
12	Backstop Assembly	1	243106	244106	245154	82*	Output Hub Bearing Shim Pack	2†	389706	389713	389719		
16	HOUSING	1	243534	244567	245587	36*	SEAL KIT**	1	389720	389721	389722		
16	Air Vent	1	241237	241237	245237	42*	▲Backstop Cover Gasket	1	243561	244593	245220		
18	Housing Bolt	6	411440	411442	411464	78*	▲Input Shaft Seal	1	243558	244524	355011		
19#	Adapter Housing Bolt Washer	2	411442	411444	411466		▲Output Hub Seal	2	243578	244673	245545		
		4	419094	419094	419096		RTV Sealant, Tube	1	465044	465044	465044		
20	Lockwasher	6	419012	419012	419013	84	BUSHING ASSEMBLY*	1	243282	.....	.....		
22	Hex Nut	8	407089	407089	407091			1 5/16" Bore	1	243284	.....	.....	
24	Dowel Pin	2	420055	420055	420110			1 3/8" Bore	1	243284	.....	.....	
	Pipe Plug	2	430031	430031	430033			1 7/16" Bore	1	243260	244079	.....	
	Magnetic Plug	1	430060	430060	430062			1 1/2" Bore	1	243262	244081	.....	
21	Countershaft Cover Screws (Backstop Side)	4	416524	411035	411394			1 5/8" Bore	1	243264	244083	.....	
26	Countershaft Brg. Cover (Backstop Side)	1	243559	244574	244574			1 11/16" Bore	1	243268	244085	.....	
27	Lockwasher	4	419007	419009	419009			1 3/4" Bore	1	243266	244087	.....	
28	Input Seal Carrier	1	243543	244577	245597			1 7/8" Bore	1	243270	244089	245084	
30*	Input Shaft Bearing Shim Pack	2†	389704	389711	389732			1 15/16" Bore	1	243272	244093	245086	
32	Carrier and Cover Screws	•	411390	411407	411407			2" Bore	1	243274	244095	245088	
33	Lockwasher	•	419010	419011	419011			2 1/8" Bore	1	.....	244109	.....	
34	Backstop Cover	1	243560	244493	245547			2 3/16" Bore	1	243276	244111	245090	
38	Backstop Cover Screw	4	416524	411035	411406			2 1/4" Bore	1	.....	244113	245092	
39	Lockwasher	4	419007	419009	419009			2 7/16" Bore	1	.....	244115	245094	
								2 1/2" Bore	1	.....	.....	245099	
						2 11/16" Bore	1	.....	.....	245110			
						2 15/16" Bore	1	.....	.....	245112			
40*	Input Shaft with Pinion	1	243549	244579	245599	86	▲Bushing Screw	6	411407	411408	411435		
		1	243550	244580	245600	88	▲Lockwasher	6	419011	419011	419012		
		1	243551	244581	245601								
41	Input Shaft Key	1	443032	443082	443113				1 5/16" Bore	1	443264		
44*	Input Shaft Brg. (Input Side)	{ Cone	402204	402280	402144				1 3/8" Bore	1	443264		
45*	Input Shaft Brg. (Backstop Side)	{ Cup	403139	403027	403104				1 7/16" Bore	1	443265		
46*	Input Shaft Brg. (Backstop Side)	{ Cone	402273	402142	•				1 1/2" Bore	1	443265		
47*	Input Shaft Brg. (Backstop Side)	{ Cup	403094	403102	403073				1 5/8" Bore	1	443265		
									1 11/16" Bore	1	443266		
									1 3/4" Bore	1	443266		
									1 7/8" Bore	1	443267		
									1 15/16" Bore	1	443269		
									2" Bore	1	443268		
									2 1/8" Bore	1	.....		
									2 3/16" Bore	1	443270		
									2 1/4" Bore	1	.....		
									2 7/16" Bore	1	.....		
									2 1/2" Bore	1	.....		
									2 11/16" Bore	1	.....		
									2 15/16" Bore	1	.....		
48	COUNTERSHAFT ASSEMBLY*	{ 9:1 Ratio	389729	389730	389731	90	▲Key, Bushing to Shaft	1β	443262	.....	443202		
		{ 15:1 Ratio	389700	389707	389714				443262	.....	443257	.....	443202
		{ 25:1 Ratio	389701	389708	389715				443265	443254	.....	443254	.....
50*	▲Countershaft with Pinion	1	243555	244590	245596				443265	443254	.....	443254	.....
50*	▲First Reduction Gear	{ 9:1 Ratio	243237	244482	245482				443266	443254	.....	443254	.....
		{ 15:1 Ratio	243238	244214	245214				443267	443255	443251	.....	443251
		{ 25:1 Ratio	243239	244212	245212				443268	443255	443251	.....	443251
52*	▲Key	1	243215	244215	244215				.....	443258	.....	443258	.....
54*	Countershaft Brg. (Input Side)	{ Cone	402273	402000	402203				.....	443259	443251	.....	443251
55*	Countershaft Brg. (Backstop Side)	{ Cup	403094	403000	403027				.....	443260	443251	.....	443251
56*	Countershaft Brg. (Backstop Side)	{ Cone	402273	402000	402203	.....	443261	443243	.....	443243			
57*	Countershaft Brg. Cover (Input Side)	{ Cup	403094	403000	403027	.....	443261	443243	.....	443243			
58	Countershaft Brg. Cover (Input Side)	1	243545	244578	245594				.....	443245			
59*	Countershaft Brg. Shim Pack	2†	389705	389712	389718				.....	443250			
									.....	443250			
60*	OUTPUT HUB ASSEMBLY*	{ Straight Bore	389702	389709	389716	94	TORQUE-ARM ASSEMBLY*	1	243097	245097	245097		
		{ Taper Bushed	389703	389710	389717				▲Rod End	1	243245	245245	245245
		{ Straight Bore	243557	244589	245591				▲Hex Nut	1	407095	407097	407097
		{ Taper Bushed	243556	244588	245590				▲Turnbuckle	1	243246	245246	245246
62*	▲Output Gear	1	243570	244188	245186	100	▲Extension	1	243247	245247	245247		
64*	▲Output Gear Key	2	243216	244217	355064	102	▲L. H. Hex Nut	1	407244	407246	407246		
68	Output Hub Collar	2	243572	244658	245598	104	▲Fulcrum	1	243249	246249	246249		
70	Collar Screw	4	400098	400150	400154	106	▲Fulcrum Screw	1	411484	411484	411484		
72	Bushing Back-up Plate	2	243308	244099	245114	110	▲Hex Nut	1	407093	407093	407093		
74	Retaining Ring	2	421109	421108	421107								
76	Output Hub Seal Carrier (Input Side)	1	243547	244591	245592	112	ADAPTER ASSEMBLY*	1	259153	259154	259155		
77	Roll Pin	1	409022	409022	409022	114	▲R.H. Adapter Plate	1	243242	244244	245242		
80*	Output Hub Bearing	{ Cone	402272	402268	402193	116	▲L.H. Adapter Plate	1	243241	244243	245241		
81*	Bearing	{ Cup	403127	403163	403016	118	▲Adapter Bushing	1	243243	245243	245243		
						118	▲Adapter Bolt	1	411437	411460	411460		
						120	▲Lockwasher	1	419012	419013	419013		
						122	▲Hex Nut	1	407089	407091	407091		

\* Includes parts listed immediately below marked "A." Housing assembly also includes a two-piece housing Bushing assemblies include 2 bushings.  
A Parts marked "A" make up the assemblies under which they are listed  
i Not shown on drawing.  
o 14 required for TXT3A & TXT4A, 15 required for TXT5B  
# Ref #19 is listed but not shown on parts drawing Washer is used on housing bolts at the dowel pin locations

t See last paragraph under 'ORDERING PARTS.'  
4 Straight bore only  
n Taper bushed only  
\* Recommended spare parts  
B On size TXT3A for 1 5/16" thru 1 3/4" bores and TXT5B for 1 7/16" thru 2 1/4" bores  
O Use part # 402266 for TXT525B, use part # 402269 for TXT509B & TXT515B.

**ORDERING PARTS:**

When ordering parts for reducer, specify reducer size number, reducer serial number, part name, part number and quantity.

It is strongly recommended that when a pinion or gear is replaced, the mating gear or pinion be replaced also.

If the large gear on the output hub must be replaced, it is recommended that an output hub assembly with a gear assembled on the hub be ordered to secure undamaged surfaces on the output hub where the oil seals rub. However, if it is desired to use the old output hub, press the gear and bearing off and examine the rubbing surface under the oil seal carefully for possible scratching or other damage resulting from the pressing operation. To prevent oil leakage at the shaft oil seals the smooth surface of the output hub must not be damaged.

If any parts must be pressed from a shaft or from the output hub, this should be done before ordering parts to make sure that none of the bearings or other parts are damaged in removal. Do not press against outer race of any bearing.

Because old shaft oil seals may be damaged in disassembly it is advisable to order replacements for these parts.

If replacing a bearing or a shaft, it is advisable to order a set of shims for adjustment of bearings on the shaft assembly. If replacing a housing, a set of shims should be ordered for each shaft assembly because the adjustment of the bearings on each shaft assembly is affected.

**Table 5 — Manufacturers' Part Numbers For Replacement Output Hub Bearings**

TORQUE-ARM Reducer Drive Size	Output Hub Bearing	
	DODGE Part Number	Timken Part Number
TXT309A TXT315A TXT325A	402272 403127	LM814849 LM814810
TXT409A TXT415A TXT425A	402268 403163	498 492A
TXT509B TXT515B TXT525B	402193 403016	42381 42584

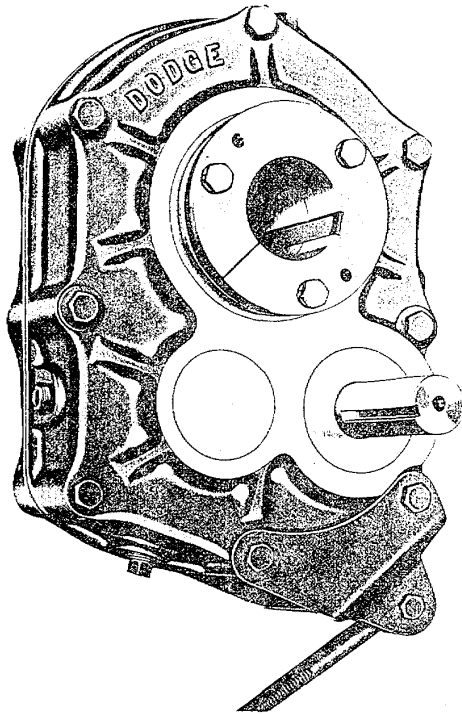
**Table 7 — Manufacturers' Part Numbers For Replacement Input Shaft Bearings**

TORQUE-ARM Reducer Size	Input Bearing Input Side		Input Bearing Adapter Side	
	DODGE Part No.	Timken Part No.	DODGE Part No.	Timken Part No.
TXT309A TXT315A TXT325A	402204 403139	LM48548A LM48510	402273 403094	15102 15245
TXT409A TXT415A TXT425A	402280 403027	2788 2720	402142 403102	26118 26283
TXT509B TXT515B TXT525B	402144 403104	28579 28521	402266 403073	350A 352

**Table 6 — Manufacturers' Part Numbers For Replacement Countershaft Bearings**

TORQUE-ARM Reducer Size	Countershaft Bearing Input Side		Countershaft Bearing Adapter Side	
	DODGE Part No.	Timken Part No.	DODGE Part No.	Timken Part No.
TXT309A TXT315A TXT325A	402273 403094	15102 15245	402273 403094	15012 15245
TXT409A TXT415A TXT425A	402000 403000	M86649 M86610	402000 403000	M86649 M86610
TXT509B TXT515B TXT525B	402203 403027	2789 2720	402203 403027	2789 2720

Parts Replacement Manual TM 5s3895-374.24P  
 For  
 Torque-Arm  
 Speed Reducers  
 Straight Bore & Taper Bushed



TXT815 - TXT825  
 SIZES: TXT915 - TXT926  
 TXT1015 - TXT1024

**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, It is important that correct procedures be followed. Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Reliance Electric Industrial Company nor are the responsibility of Reliance Electric Industrial Company. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer output shaft.

**DODGE** / P.O. Box 499 / 6040 Ponders Court / Greenville, S C. 29602-0499 / 803-297-4800

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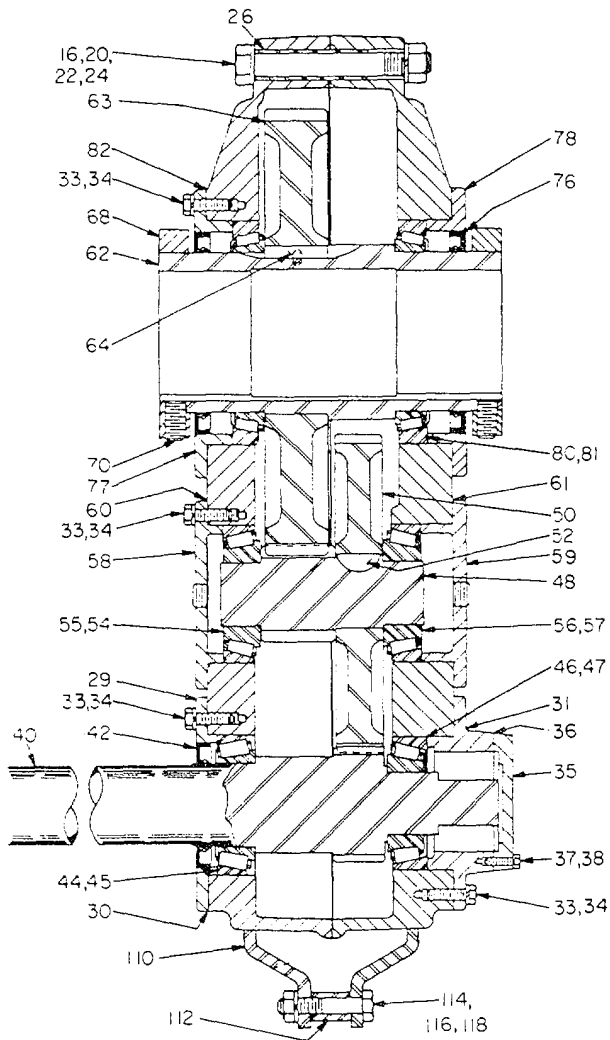
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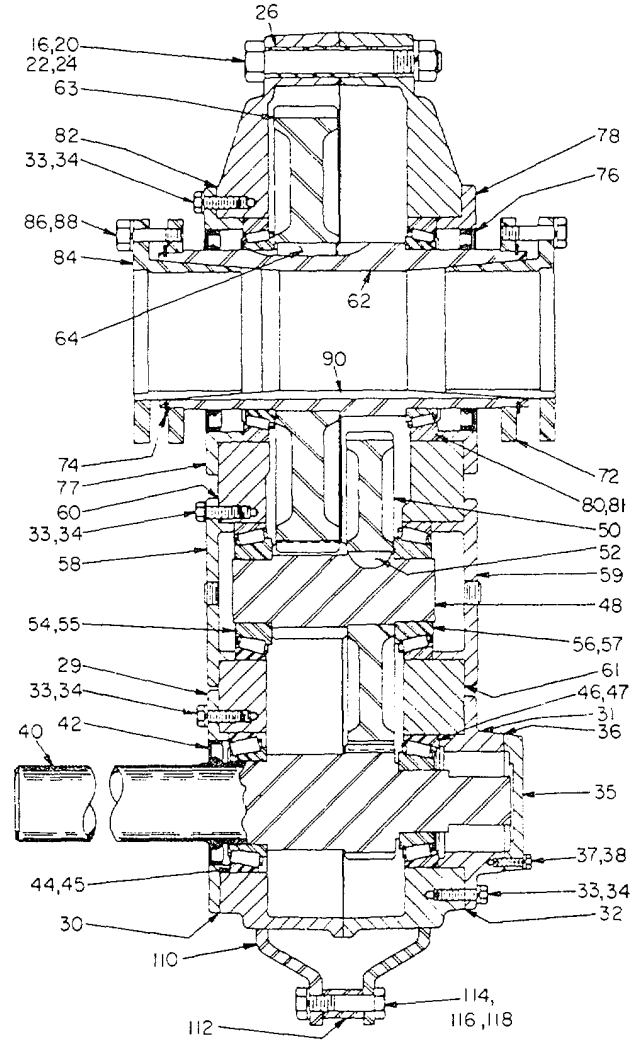
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5/92 6MK

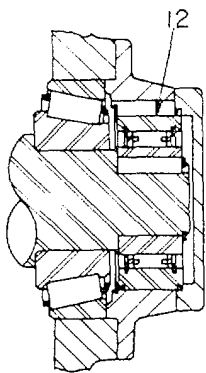
PARTS FOR TXT8 thru TXT10 STRAIGHT BORE & TAPER BUSHED SPEED REDUCERS



Straight Bore

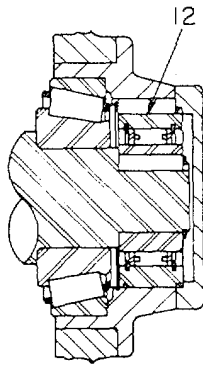


Taper Bushed

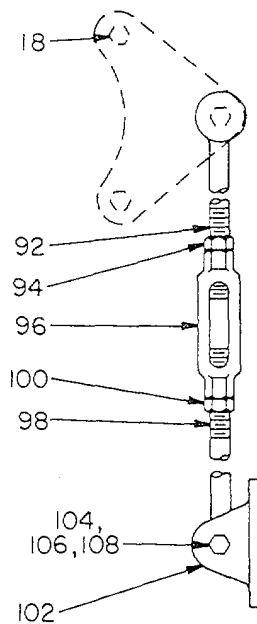


TXT8 & TXT10

Backstop Assembly



TXT9



Note: The two digit numbers are for reference only. Order parts by the six digit numbers in the Parts List. Each six digit number is a complete identification of the part or assembly.





**ORDERING PARTS:**

When ordering parts for reducer specify reducer size number, reducer serial number, part name, part number and quantity.

It is strongly recommended that when a pinion or gear is replaced, the mating gear or pinion also be replaced.

If the large gear on the output hub must be replaced, it is recommended that an output hub assembly of a gear assembled on a hub be ordered to secure undamaged surfaces on the output hub where the oil seals rub. However, if it is desired to use the old output hub, press the gear and bearing off and examine the rubbing surface under the oil seal carefully for possible scratching or other damage resulting from the pressing operation. To prevent oil leakage at the oil seals, the smooth surface of the output hub must not be damaged.

If any parts must be pressed from a shaft or from the output hub, this should be done before ordering parts to make sure that none of the bearings or other parts are damaged in removal. Do not press against outer race of any bearing.

Because old shaft oil seals may be damaged in disassembly it is advisable to order replacements for these parts.

**Table 4—Manufacturers' Part Numbers For Replacement Output Hub Bearings**

Torque-Arm Reducer Drive Size	Output Hub Bearing	
	Dodge Part Number	Timken Part Number
TXT815 TXT825	402147 403105	36690 36620
TXT915 TXT925	402160 403110	46790 46720
TXT1015 TXT1025	402168 403116	67790 67720

Timken Brg. Cone  
Cup

**Table 5—Manufacturers' Part Numbers For Replacement Countershaft Bearings**

Torque-Arm Reducer Drive Size	Countershaft Bearing Input Side		Countershaft Bearing Adapter Side	
	Dodge Part Number	Timken Part Number	Dodge Part Number	Timken Part Number
TXT815 TXT825	402057 403143	JH211749 JH211710	402148 403106	39585 39520
TXT915 TXT925	402109 403078	655 652A	402109 403078	655 652A
TXT1015 TXT1025	402232 402231	JH415647 JH415610	402232 402231	JH415641 JH415610

**Table 6—Manufacturers' Part Numbers For Replacement Input Shaft Bearings**

Torque-Arm Reducer Size	Input Bearing Input Side		Input Bearing Adaptor Side	
	Dodge Part Number	Timken Part Number	Dodge Part Number	Timken Part Number
TXT815 TXT825	402098 403072	556 563	402097 403072	565 563
TXT915 TXT925	402114 403080	745A 742	402107 403076	639 633
TXT1015 TXT1025	402114 403080	745A 742	402112 403080	745S 742

## Instruction Manual

For



## Screw Conveyor Drive

SCXT309A - SCXT315A - SCXT325A  
SCXT409A - SCXT415A - SCXT425A  
SCXT509B - SCXT515B - SCXT525B

**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Reliance Electric Industrial Company nor are the responsibility of Reliance Electric Industrial Company. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a fail safe device must be an integral part of the driven equipment beyond the speed reducer output shaft.

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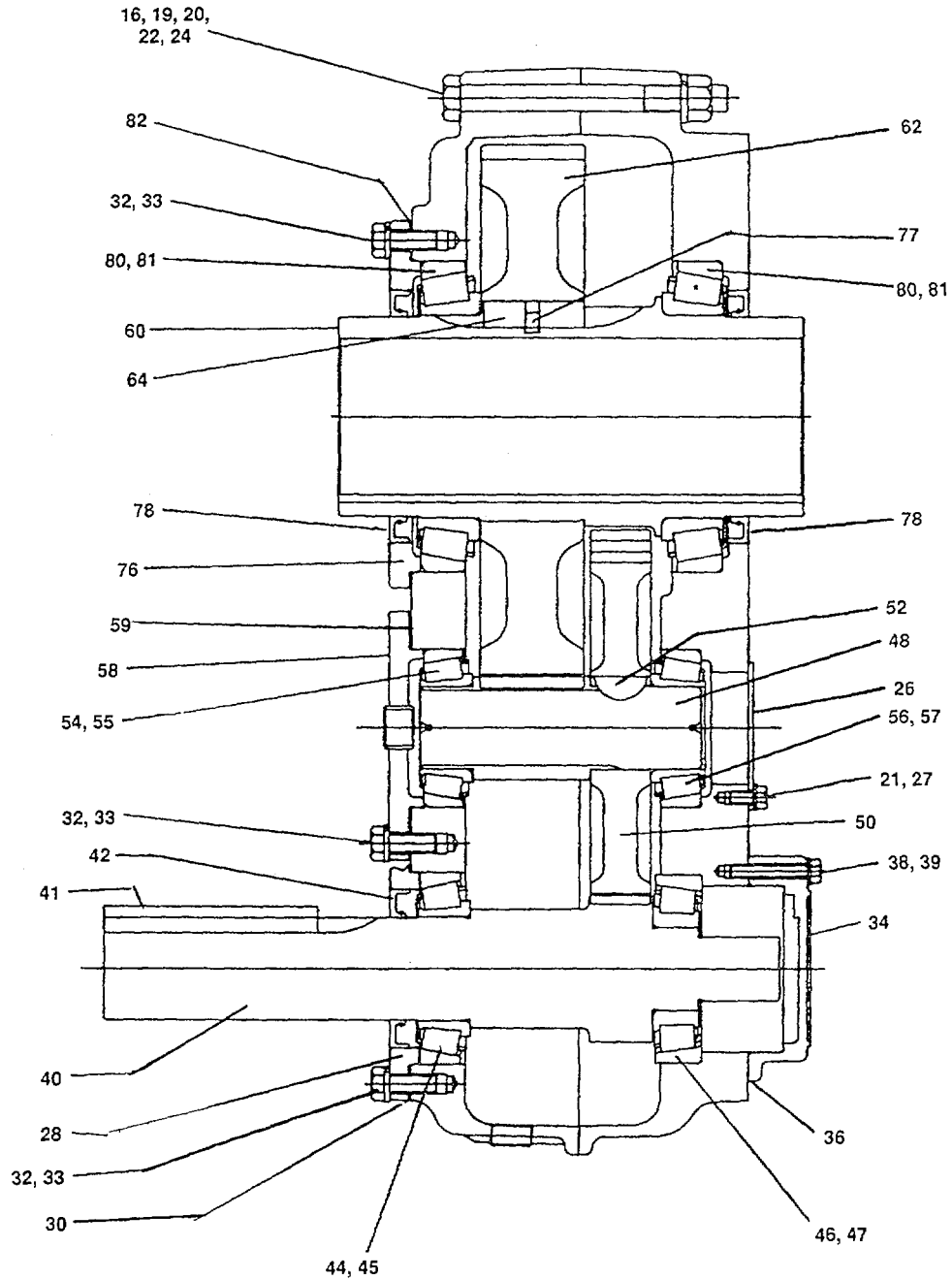
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Instruction Manual 499837

11/91 5M-K



Note: The two-digit numbers are for reference only. Order parts by the six-digit numbers in the Parts List. Each six-digit number is a complete identification of the part or assembly

Reference	Name of Part	No. Req'd.	SCXT3A Part No.	SCXT4A Part No.	SCXT5B Part No.	Reference	Name of Part	No. Req'd.	SCXT3A Part No.	SCXT4A Part No.	SCXT5B Part No.		
↓ 16 19	HOUSING	1	243538	244569	245589	58	Countershaft Brg. Cover (Input Side)	1	243545	244578	245594		
	Air Vent	1	241237	241237	245237	59*	Countershaft Brg. Shim Pack	2†	389705	389712	389718		
	Housing Bolt	6	411440	411442	411464		OUTPUT HUB ASSEMBLY*	1	389702	389709	389716		
	Washer	4	419094	419094	419096	▲Output Hub		1	243557	244589	245591		
20 22	Lockwasher	6	419012	419012	419013	60*	▲Output Gear	1	243570	244188	245186		
	Hex Nut	8	407089	407089	407091	64*	▲Output Gear Key	2	243216	244217	355064		
24 ↓	Dowel Pin	2	420055	420055	420110	76	Output Hub Seal Carrier (Input Side)	1	243547	244591	245592		
	Pipe Plug	2	430031	430031	430033		77	Roll Pin	1	409022	409022	409022	
↓	Magnetic Plug	1	430060	430060	430062	80*	Output Hub Bearing	2	402272	402268	402193		
	Countershaft Cover Screws (Backstop Side)	4	416524	—	411394	81*	Cone Cup	2	403127	403163	403016		
26	Countershaft Brg. Cover (Backstop Side)	1	243559	244495	244574			82*	Output Hub Bearing Shim Pack	2†	389706	389713	389719
27	Lockwasher	4	419007	—	419009	35*	SEAL KIT*	1	389720	389721	389722		
	Input Shaft Seal Carrier	1	243543	244577	245597		▲Backstop Cover Gasket	1	243561	244593	245220		
30*	Input Shaft Bearing Shim Pack	2†	389704	389711	391799	42*	▲Input Shaft Seal	1	243558	244524	355011		
	Carrier and Cover Screws	14●	411390	411407	411407	78*	▲Output Hub Seal	2	243578	244673	245545		
32 33	Lockwasher	14●	419010	419011	419011	↓	RTV Sealant, Tube	1	465044	465044	465044		
	Backstop Cover	1	243560	244493	245547		↓	Retainer Bolt	1	411551	411551	411551	
38 39	Backstop Cover Screw	4	416524	411035	411406	↓	Lockwasher	1	419016	419016	419016		
	Lockwasher	4	419007	419009	419009	↓	Shaft Retainer	1	353053	354088	355065		
40*	Input Shaft with Pinion	9:1 Ratio	1	243549	244579	245599	↓	ADAPTER*	1	353047	354121	355072	
		15:1 Ratio	1	243550	244580	245600		↓	▲Bolt	4	411456	411483	411483
41	Input Shaft Key	25:1 Ratio	1	243551	244581	245601	↓	▲Lockwasher	4	419013	419014	419014	
	Input Shaft Brg. (Input Side)	Cone	1	443032	443082	443113	↓	▲Lip Seal	1	353085	354115	355067	
44*	Input Shaft Brg. (Input Side)	Cup	1	402204	402280	402144	↓	▲Braided Seal	2	427658	427664	427674	
	Input Shaft Brg. (Backstop Side)	Cone	1	403139	403027	403104	↓	▲Seal Retaining Ring	1	353054	354089	355066	
46*♦	Input Shaft Brg. (Backstop Side)	Cup	1	402273	402142	402269	↓	DRIVE SHAFT▲	1 1/2" Dia.	1	243562	244594	—
		Cup	1	403094	403102	403073			2" Dia.	1	243563	244595	355175
47*	COUNTERSHAFT ASSEMBLY*	9:1 Ratio	1	389729	389730	389731	2 7/16" Dia.	1	243564	244596	355176		
		15:1 Ratio	1	389700	389707	389714	3" Dia.	1	243565	244597	355177		
48	▲Countershaft with Pinion	25:1 Ratio	1	389701	389708	389715	3 7/16" Dia.	1	—	244598	355178		
	▲First Reduction Gear	9:1 Ratio	1	243555	244590	245595	1	443098	443114	443239			
50*	▲Key	15:1 Ratio	1	243214	244214	245214	↓	Retainer Bolt	1	411551	411551	411551	
		25:1 Ratio	1	243212	244212	245212	↓	Lockwasher	1	419016	419016	419016	
52*	▲Key	9:1 Ratio	1	243215	244215	244215	↓	Shaft Retainer	1	353053	354088	355065	
		15:1 Ratio	1	243215	244215	244215	↓	ADAPTER*	1	353047	354121	355072	
54*	Countershaft Brg. (Input Side)	Cone	1	402273	402000	402203	↓	▲Bolt	4	411456	411483	411483	
	Countershaft Brg. (Backstop Side)	Cup	1	403094	403000	403027	↓	▲Lockwasher	4	419013	419014	419014	
55*	Countershaft Brg. (Input Side)	Cone	1	402273	402000	402203	↓	▲Lip Seal	1	353085	354115	355067	
	Countershaft Brg. (Backstop Side)	Cup	1	403094	403000	403027	↓	▲Braided Seal	2	427658	427664	427674	
56*	Countershaft Brg. (Input Side)	Cone	1	402273	402000	402203	↓	▲Seal Retaining Ring	1	353054	354089	355066	
	Countershaft Brg. (Backstop Side)	Cup	1	403094	403000	403027	↓	DRIVE SHAFT▲	1 1/2" Dia.	1	243562	244594	—
57*	Countershaft Brg. (Input Side)	Cone	1	402273	402000	402203	2" Dia.	1	243563	244595	355175		
	Countershaft Brg. (Backstop Side)	Cup	1	403094	403000	403027	2 7/16" Dia.	1	243564	244596	355176		
57*	Countershaft Brg. (Input Side)	Cone	1	402273	402000	402203	3" Dia.	1	243565	244597	355177		
	Countershaft Brg. (Backstop Side)	Cup	1	403094	403000	403027	3 7/16" Dia.	1	—	244598	355178		
57*	Countershaft Brg. (Input Side)	Cone	1	402273	402000	402203	1	443098	443114	443239			
	Countershaft Brg. (Backstop Side)	Cup	1	403094	403000	403027	↓	▲Key	1	443098	443114	443239	

\* Includes parts listed immediately below marked 'A.'  
A Parts marked 'A' make up the assemblies under which they are listed.  
4 Not shown on drawing.  
. 15 required on TXT5B.

\* Part No. 402266 for SCXT525B.  
† See 'ast paragraph under ORDERING PARTS.  
' Recommended spare parts.

**ORDERING PARTS:**

When ordering parts, specify Screw Conveyor Drive size and serial number, part name, part number and quantity.

Parts that must be pressed from shafts or output hub should be removed before ordering parts. This assures that those parts, if damaged during pressing operation, will be replaced.

It is recommended that when a pinion or gear is replaced, its mating gear or pinion be replaced also. This ensures that the gear teeth will mesh properly. If the large gear on the output hub must be replaced, it is suggested that an output hub assembly, consisting of a gear assembled on an output hub, be ordered to secure an output hub with undamaged surfaces on which the oil seals rub. However, if the old output hub is to be used, carefully press the gear and bearing cones off. Thoroughly examine the area under the oil seals for scratches or any other damage resulting from the pressing operation. To prevent oil leakage at the oil seals, the rubbing area must be smooth.

Replacements for the old oil seals should be ordered, due to the probability of these parts being damaged during disassembly.

If replacing a bearing, output hub or a shaft, it is advisable to order a set of shims for adjustment of bearings on the shaft assembly. If replacing a housing, a set of shims should be ordered for each shaft assembly because the adjustment of the bearings on each shaft assembly is affected.

**Table 5 — Manufacturers' Part Numbers For Replacement Output Hub Bearings**

TORQUE-ARM Reducer Drive Size	Output Hub Bearing	
	DODGE Part Number	Timken Part Number
SCXT309A SCXT315A SCXT325A	402272 403127	LM814849 LM814810
SCXT409A SCXT415A SCXT425A	402268 403163	498 492A
SCXT509B SCXT515B SCXT525B	402193 403016	42381 42584

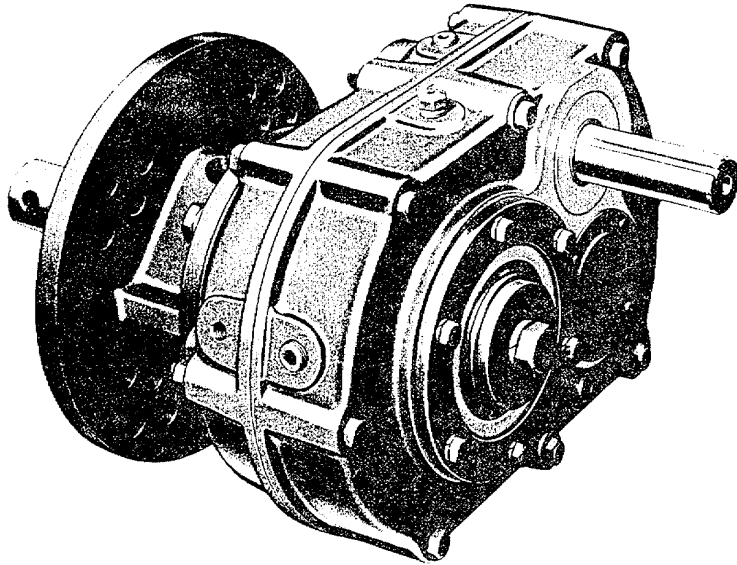
**Table 6 — Manufacturers' Part Numbers For Replacement Countershaft Bearings**

TORQUE-ARM Reducer Size	Countershaft Bearing Input Side		Countershaft Bearing Adapter Side	
	DODGE Part No.	Timken Part No.	DODGE Part No.	Timken Part No.
SCXT309A SCXT315A SCXT325A	402273 403094	15102 15245	402273 403094	15102 15245
SCXT409A SCXT415A SCXT425A	402000 403000	M86649 M86610	402000 403000	M86649 M86610
SCXT509B SCXT515B SCXT525B	402203 403027	2789 2720	402203 403027	2789 2720

**Table 7 — Manufacturers' Part Numbers For Replacement Input Shaft Bearings**

TORQUE-ARM Reducer Size	Input Bearing Input Side		Input Bearing Adapter Side	
	DODGE Part No.	Timken Part No.	DODGE Part No.	Timken Part No.
SCXT309A SCXT315A SCXT325A	402204 403139	LM48548A LM48510	402273 403094	15102 15245
SCXT409A SCXT415A SCXT425A	402280 403027	2788 2720	402142 403102	26118 26283
SCXT509B SCXT515B	402144 403104	28579 28521	402269 403073	350 352
SCXT525B	402144 403104	28579 28521	402266 403073	350A 352

**INSTRUCTION MANUAL  
FOR  
DODGE  
Screw Conveyor  
Drive**



SCXT109	-SCXT115	-SCXT125
SCXT209	-SCXT215	-SCXT225
SCXT309	-SCXT315	-SCXT325
SCXT409	-SCXT415	-SCXT425
SCXT509A	-SCXT515A	-SCXT525A

**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Reliance Electric nor are the responsibility of Reliance Electric. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a fail safe device must be an integral part of the driven equipment beyond the speed reducer output shaft.

**DODGE** / P.O. Box 499 / 6040 Ponders Court / Greenville, S.C. 29602-0499 / 803-297-4800

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Printed in U.S.A.

Instruction Manual 499840

5/88 7M-K

**ORDERING PARTS**

When ordering parts specify Screw Conveyor Drive Size and Serial No., port name, part number and quantity.

Ports that must be pressed from shafts or output hub should be removed before ordering parts. This assures that those parts, if damaged during pressing operation, will be replaced. Do not press against the outer race of any ball bearing.

It is recommended that when a pinion or gear is replaced, its mating gear or pinion be replaced also. This insures that the gear teeth will mesh properly. If the large gear on the output hub must be replaced, it is suggested that an output hub assembly, consisting of a gear assembled on an output hub, be ordered to secure an output hub with undamaged surfaces on which the oil seals rub. However, if the old output hub is to be used, carefully press the gear and bearing cones off. Thoroughly examine the area under the oil seals for scratches or any other damage resulting from the pressing operation. To prevent leakage at the oil seals, the rubbing area must be smooth.

Replacements for the oil seals should be ordered, due to the probability of these parts being damaged during disassembly.

If replacing an output hub or input shaft on 5A bearing, output hub, input shaft or reducer housing, it is advisable to order a set of output hub or input shaft shims because the adjustment of the output hub bearing or input shaft bearing on 5A will be affected.

**Table 4 – Manufacturers Part Numbers for Replacement Output Hub Bearings**

SCREW CONVEYOR DRIVE SIZE	Output Hub Bearing			
	DODGE Part Number		Timken Part Number	
	Cone	Cup	Cone	Cup
SCXT109 SCXT115 SCXT125	402246	403149	JLM506849	JLM506810
SCXT209 SCXT215 SCXT225	402247	403150	JLM710949	JLM710910
SCXT309 SCXT315 SCXT325	402003	403003	JLM714149	JLM714110
SCXT409 SCXT415 SCXT425	402250	403153	JM716649	JM716610
SCXT509A SCXT515A SCXT525A	402007	403007	JM720249	JM720210

**Table 5 – Manufacturers Part Numbers for Replacement Countershaft Bearings**

SCREW CONVEYOR DRIVE SIZE	Counter Bearing Input Side		Countershaft Bearing Adaptor Side	
	DODGE Part Number	SKF Part Number	DODGE Part Number	SKF Part Number
	SCXT109 SCXT115 SCXT125	424006	3045G	424006
SCXT209 SCXT215 SCXT225	424000	305MG*	424000	305MG*
SCXT309 SCXT315 SCXT325	424002	306MG*	424000	305MG*
SCXT409 SCXT415 SCXT425	424073	5306MG*	424069	5305MG*
SCXT509A SCXT515A SCXT525A	424010	308MG*	424010	308MG*

**Table 6 – Manufacturers Part Numbers for Replacement Input Shaft Bearings**

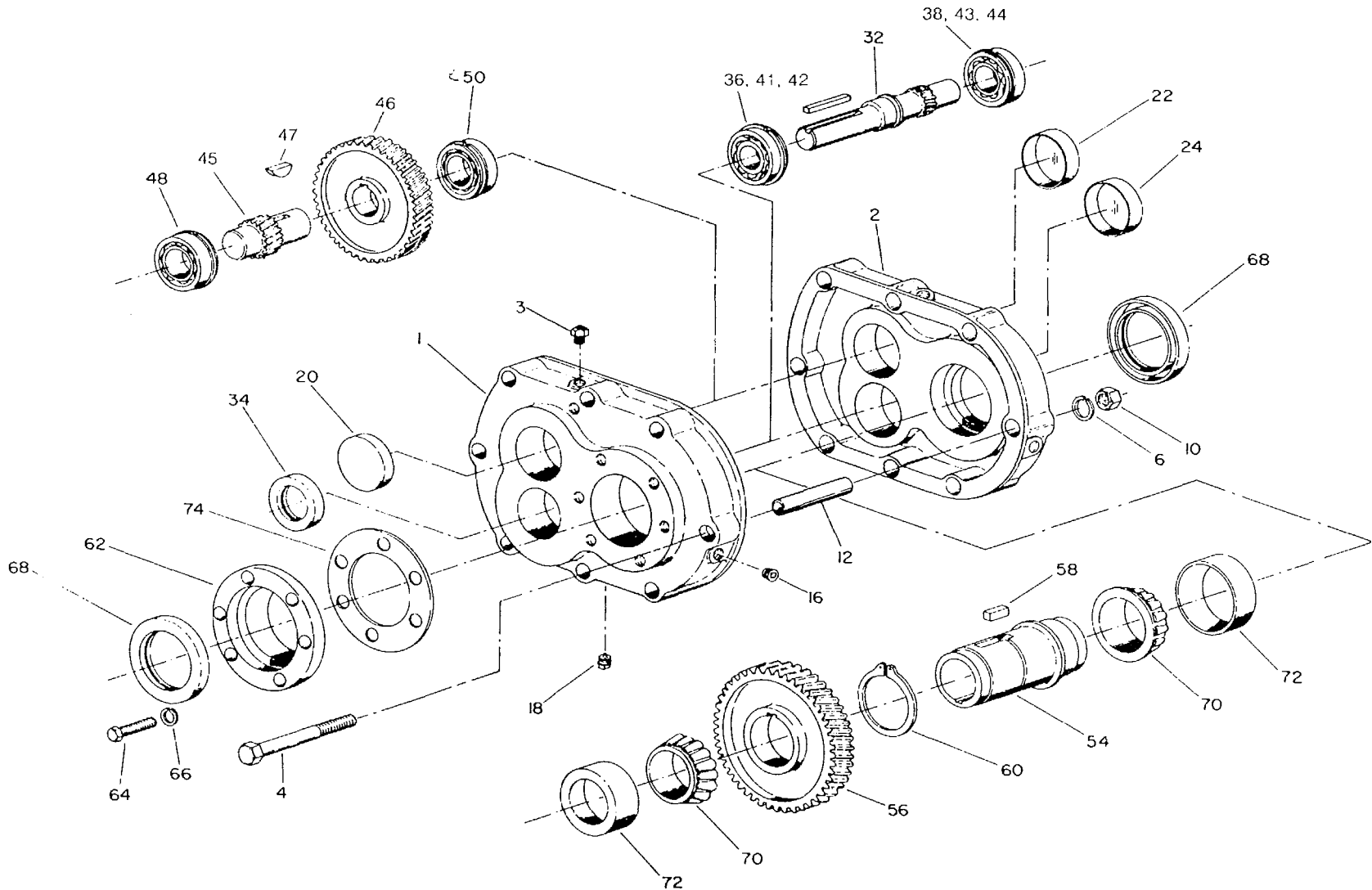
SCREW CONVEYOR DRIVE SIZE	Input Bearing Input Side		Input Bearing Adaptor Side	
	DODGE Part Number	SKF Part Number	DODGE Part Number	SKF Part Number
	SCXT109 SCXT115 SCXT125	424112	2055G*	424111
SCXT209 SCXT215 SCXT225	424019	206MG*	424090	3055G*
SCXT309 SCXT315 SCXT325	424087	207MG*	424000	305MG*
SCXT409 SCXT415 SCXT425	424089	208MG*	424002	306MG*
SCXT509A SCXT515A SCXT525A	403104 402144	28521▲ 28579	403073 402266	352▲ 550A

\* MRC BRG  
▲ Timken Brg  
Cup  
Cone



**PARTS FOR SCXT115 thru SCXT525 SCREW CONVEYOR DRIVE SPEED REDUCERS**

NOTE: The two digit numbers are for reference only. Order parts by the six digit numbers in the Parts List. Each six digit number is a complete identification of the part or assembly.



Reference	Name of Part	No. Req'd.	SCXT115 and SCXT125	SCXT215 and SCXT225	SCXT315 and SCXT325	SCXT415 and SCXT425	SCXT515A and SCXT525A
			Part No.	Part No.	Part No.	Part No.	Part No.
	HOUSING		351225	352219	353219	354419	355164
3	Air Vent	1	241237	241237	241237	241237	245237
4	Housing Bolt		411418	411418	411440	411442	411464
6	Lockwasher		419011	419011	419012	419012	419013
⚡	Washer	1	419092	---	---	---	419096
10	Hex Nut		407087	407087	407089	407089	407091
12	Dowel Pin	2	420092	420091	420055	420055	420110
16	Pipe Plug	5	430031	430031	430031	430031	430033
18	Magnetic Drain Plug	1	430050	430060	430060	430060	430062
20	Countershaft Bearing Cover— Input Side	1	242224	242224	243195	354114	355060
⚡	Countershaft Bearing Cover Gasket (Input Side)	1	---	---	---	354113	---
⚡	Countershaft Bearing Cover Screw (Input Side)	4	---	---	---	415022	---
22	Countershaft Bearing Cover— Adapter Side	1	241224	243224	243224	243224	355060
24	Input Shaft Bearing Cover	1	361062	354112	354112	364062	355069
26	Input Shaft Seal Carrier		---	---	---	---	245538
27	Input Shaft Bearing Shim Pack .002" Shim .005" Shim .010" Shim .025" Shim		---	---	---	---	391799 427550 427551 427552 427553
28	Carrier Bolts		---	---	---	---	411407
29	Lock Washers		---	---	---	---	419011
⚡	Retainer Bolt	1	411549	411549	411551	411551	411551
⚡	Lockwasher	1	419014	419014	419016	419016	419016
⚡	Shaft Retainer	1	361116	352116	353053	354088	355065
32*	Input Shaft and Pinion 9:1 Ratio 15:1 Ratio 25:1 Ratio	1	241481	242481	243481	244481	245529
"	Input Shaft Key	1	241302	242186	243059	244225	245530
"	Input Shaft Bearing — Input Side Δ	1	241200	242187	243058	244226	245531
36*	Input Shaft Bearing — Adapter Side Δ	1	443000	443014	443032	443082	443113
38*	Input Shaft Bearing — Cone	1	424112	424019	424087	424089	---
41	Input Side Cup		---	---	---	---	402144
42	Input Shaft Bearing — Cup		---	---	---	---	403104
43	Adapter Side Cup		---	---	---	---	402266
44	Adapter Side Cup		---	---	---	---	403073
45	COUNTERSHAFT ASSEMBLY* 9:1 Ratio 15:1 Ratio 25:1 Ratio	1	392100	392101	392102	392103	392104
46	▲Countershaft and Pinion	1	392090	392092	392094	392096	392098
46	▲First Reduction Gear 9:1 Ratio 15:1 Ratio 25:1 Ratio	1	392091	392093	392095	392097	392099
47	▲Gear Key	1	241216	242185	243185	244185	245185
48*	Countershaft Bearing — Input Side Δ §	1	424006	424000	424002	424073	424010
50*	Countershaft Bearing — Adapter Side Δ	1	424006	424000	424000	424069	424010
54*	OUTPUT HUB ASSEMBLY* ▲Output Hub	1	391029	392105	392106	392107	392108
56*	▲Output Hub Gear	1	351112	352112	353049	354085	355049
58*	▲Output Hub Gear Key ⚡	1	241007	242181	243222	244188	245186
60*	▲Snap Ring	1	241217	443399	243216	391015	391026
62	Output Hub Seal Carrier	1	421013	421017	421021	---	---
64	Carrier Screw	6	351114	352114	353083	354083	355052
66	Lockwasher	6	411405	411407	411407	411407	411407
70*	Output Hub Bearing — Cone Δ	2	419010	419011	419011	419011	419011
72*	Output Hub Bearing — Cup Δ	2	402246	402247	402203	402250	402007
74*	Output Hub Shim Pack .002" Thick .005" Thick .010" Thick .025" Thick	1 Set †	391056	391059	391062	391065	391068
⚡	▲"A" ASSEMBLY	1	427424	427428	427428	427420	427444
⚡	▲"B" ASSEMBLY	1	427425	427429	427437	427421	427445
⚡	▲Bolt	4	427426	427430	427438	427422	427446
⚡	▲Lockwasher	4	427427	427431	427439	427423	427447
⚡	▲Lip Seal	1	351086	352052	353047	354121	355072
⚡	▲Braided Seal	2	351087	352053	353047	354121	355072
⚡	▲Seal Retaining Ring	1	411408	411439	411456	411463	411483
⚡		1	419011	419012	419013	419014	419014
⚡		1	351123	352122	353085	354115	355067
⚡		2	427653	427659	427658	427664	427674
⚡		1	351121	352121	353054	354089	355066
⚡	DRIVE SHAFT ▲ 1 1/2" Dia. 2" Dia. 2 7/16" 3" Dia. 3 7/16" Dia.	1	351094	352090	353042	---	---
	▲Key	1	351095	352091	353043	354117	355076
	▲Seal Kit*	1	351096	352092	353044	354118	355077
34	▲Input Seal	1	351097	352093	353045	354119	355078
68	▲Output Seal	2	---	---	---	354120	355079
		1	443287	443223	443069	443114	443239
		1	272711	272712	272713	272714	272715
		1	241457	242211	242211	244211	355011
		2	351113	352113	353052	354086	355054

\* Includes parts listed immediately below marked A' Housing also includes two-piece housing series SCXT1 & SCXT5A only Adapter Assembly also includes adapter  
 A These parts make up the assemblies under which they are listed Housing Assembly so includes one-piece housing Series SCXT1 & SCXT5A only Adapter Assembly also includes adapter  
 A For manufacturers part number see tables 4 5 and 6 on page 5  
 † Not shown on drawing  
 ‡ One set consists of one each of the shims listed immediately below marked †  
 † See last paragraph under ORDERING PARTS  
 Z 6 req'd for SCXT1 Series 7 req'd for SCXT2 Series 8 req'd for SCXT3, SCXT4 and SCXT5A series  
 0 Includes roll pin for SCXT4 and SCXT5A Series  
 \* Used only on SCXT1 and SCXT2 with 1" Dia shafts  
 † Recommended spare parts  
 § Double row ball bearing on SCXT415 & SCX7425

## SECTION C7

This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
OWXU7	CEI Enterprises A Trace Industries Inc. Co. P.O. Box 9156 Albuquerque, NM 87119	(505) 877-9107	(505) 877-8714

Description of Components: Hot Oil Heater

Components:

Model: CEI-2000A

RECOMMENDED SPARE PARTS

To prevent unnecessary delay and loss of production due to a faulty component, we highly recommend that these spare parts be ordered.


NOTE: When ordering spare parts, include the CEI Heater Model and Serial Number.

- |                                 |   |
|---------------------------------|---|
| 1. Air Flow Switch              | 18. Nozzles                             |
| 2. Temp. Controller             | 19. Fan Wheel, Burner                   |
| 3. Thermal Couple               | 20. Valve Body                          |
| 4. Thermal Overloads            | 21. Actuator, Gas Valve                 |
| 5. Fireye E-100 Chassis         | 22. Valve, Fuel Oil Solenoid            |
| 6. Program Module EP-260 Fireye | 23. Pump, Fuel Oil                      |
| 7. Amplifier Fireye             | 24. Nut, Impeller                       |
| 8. Scanner UV1 Fireye           | 25. Lock Washer                         |
| 9. Relay Control (4K)           | 26. O-Ring                              |
| 10. Cable, Gas Ignition 3 ft.   | 27. Bearing, Ball                       |
| 11. Cable, Oil Ignition 6 ft.   | 28. Bearing, Sleeve                     |
| 12. Electrode, Oil Ignition     | 29. Seal Rings, Radial                  |
| 13. Transformer, Oil Ignition   | 30. Cartridge, Fuel Filter              |
| 14. Transformer, Gas Ignition   | 31. Coupling, Fuel Pump                 |
| 15. Motor, Burner               | 32. Coupling, Circulating Pump          |
| 16. Starter Interlocks (595-A)  | 33. By-Pass Regulating Valve (Fuel Oil) |
| 17. Starter Coil                |   |
| 34. Damper Motor                |   |

For your convenience CEI has available a "Spare Parts Kit". which contains the necessary components, from the above list, for each CEI Heater Model.

CEI also has available a "Conversion Kit" for converting oil or gas fueled burners to combination burners. Installation of this Conversion Kit would allow operation of the burner on fuel oil or gas by turning the selector switch to the desired fuel.

Refer to the parts list on the next page for the correct part number for ordering spare parts.

	TITLE RECOMMENDED SPARE PARTS				PRODUCT HEATER	
	EFFECTIVE DATE 4/1/88	APPROVED BY <i>Jm</i>	DATE 4-1-88	SECTION 10	SUB-SECTION 10.1	PAGE 1

## SPARE PARTS

CEI-2000A  
CIRCULATING HOT OIL HEATERDESCRIPTION

0102015-PF	SWITCH, AIR FLOW
0102017	SWITCH, PUMP PRESSURE
0103015	SWITCH, HIGH LIMIT
0103111	THERMO COUPLINGS/ECLIPSE
0103200	CONTROL, ECLIPSE TEMP. 2004
0103200KP	KEY PAD/EXLIPSE
0104024	STARTER, BURNER MAGNETIC S/O
0104025	STARTER, PUMP MAGNETIC S/1
0105001	CONTROL, LIQUID LOW LEVEL
0105002	SWITCH, MERCURY (FOR 0105001)
0106126	CHASSIS, FIREYE E-100
0106127	SUB BASE ASSY, FIREYE 60-1386-2
0106128	PROGRAM MODULE, FIREYE EP-260
0106129	AMPLIFIER, FIREYE EUV1
0106130	SCANNER, FIREYE UV1
0107006	RELAY, CONTROL
0113002	SWITCH, OFF/PUMP/BURNER
0113003	SWITCH, TIME CLOCK (AUTO/MAN)
0113007	CLOCK, TIME
0205004-PF	CABLE, OIL IGNITION
0208008-PF	ELECTRODE, OIL IGNITION 2 REQ.
0210003	BULB, INDICATOR LIGHT (BOX of 10)
0210009	LIGHT, IND. W/SOCKET - AMBER
0210010	LIGHT, IND. W/SOCKET - RED
0210011	LIGHT, IND. W/SOCKET - WHITE
0214002-PF	TRANSFORMER, OIL IGNITION
0301005	MOTOR, BURNER 1-1/2 HP
0302005A	MOTOR, PUMP 7-1/2 HP 3450 RPM
0304006	MOTOR, DAMPER FM M9174C1017 2 SWITCH
0401010	GAUGE, HTF LEVEL (PAIR)
0401011	GASKET, HTF LEVEL GAUGE (0401010)
0401016	SIGHT GLASS, HTF LEVEL
0401020-PF	GAUGE, F/O PRESSURE 0-600°F OIL
0401022	GAUGE, CIRC PUMP PRESSURE
0402005	THERMOMETER, FBX 3-1/2" x 6"
0402007	THERMOMETER, 2" x 2-1/2" 50-500°F
0604006-PF	BRACKET, POWER FLAME BURNER
0604007-PF	THUMB SCREW FOR 0604006
0604008	LINKAGE, BALL JOINT
0604020-PF	SHUTTER STOP, DAMPER ARM
0605001	ISOLATOR, PANEL BOX VIBRATION
0612014-PF	NOZZLE, 12 GPH, 60 DEG 100 PSI

DESCRIPTION

0613003-PF	FAN WHEEL, BURNER 8-1/4 x 3-1/2
1301003-PF	VALVE, REG. OIL
1301027-PF	VALVE, BY-PASS CHECK
1305010-PF	VALVE, FUEL OIL SOLENOID
1503001-PF	PUMP, FUEL OIL
1507001	FILTER, FUEL OIL
1507002	CARTRIDGE, FUEL FILTER (1507001)
1801007-PF	COUPLING, FUEL PUMP

CIRCULATING PUMP PARTS

1506001	PUMP, CIRCULATING ZTN 5013 SIHI
1506011-SIHI	NUT, IMPELLER #285
1506012-SIHI	LOCK WASHER, #292
1506013-SIHI	GREASE FITTING, #295
1506015-SIHI	O-RING, #81
1506016-SIHI	VENT PLUG, #130
1506017-SIHI	PLUG, #131
1506018-SIHI	HEX BOLTS (4 EACH) 3163
1506019-SIHI	SHAFT, #200
1506021-SIHI	RETAINING RING, #260
1506022-SIHI	SPACER, #266
1506023-SIHI	KEY, #256
1506027-SIHI	BEARING, BALL #230
1506028-SIHI	BEARING, SLEEVE #241
1506030-SIHI	SEAL RINGS, RADIAL #400
1506031-SIHI	SEAL RINGS, RADIAL #426
1801003-SIHI	COUPLING, 6J PUMP-SIHI
2515026-SIHI	GASKET, RING #80

Power Flame Incorporated



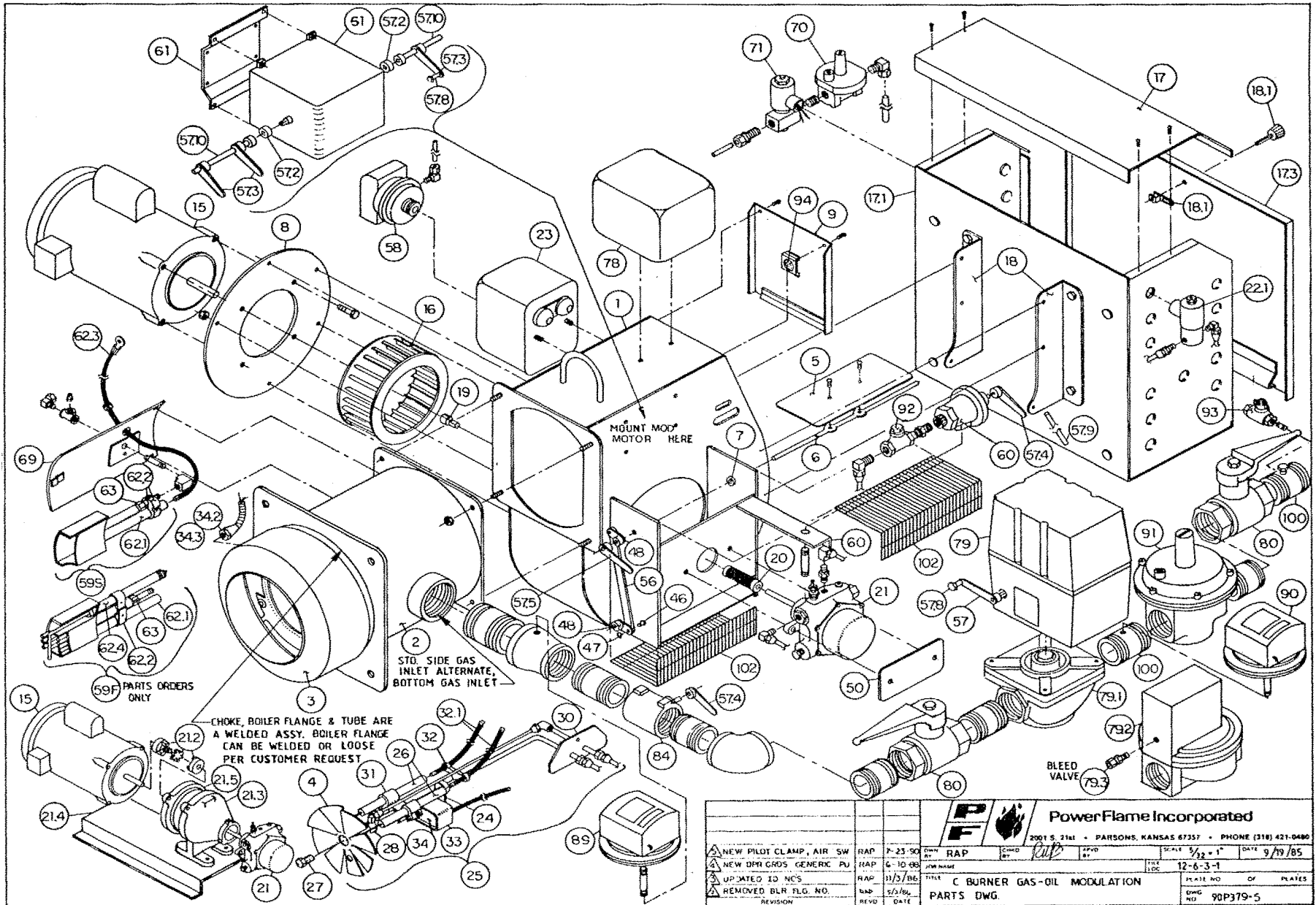
**"C" BURNER PARTS**

2001 South 21st Street, Parsons, Kansas 67357  
316•421-0480, Telex 62903462  
Controlled energy for commerce and industry

MODEL - CR2-GO-20B  
 MODE - MOD  
 BURNER TYPE - CEI 2000 OPT 3

ITEM NO.	PART NO.	PART QTY.	DESCRIPTION
1	C20030	1	30A168 C2 AIR HSG USUL 77
2	C20541	1	30B422 C2 TU FP 7.7B 14-#24 SC
3	C22041	1	30B445 C2 6-3/4 SS CHOKE ASSY
5	C10550	2	30A144 C2 DPR BLADE
6	C80590	2	30A29 C2/3 DAMPER AXLE
8	C10740	1	30A28 C2 MTR PLT
9	C24020	1	30A30 C2 BACK PLT ASSY
15	05426	1	1-1/2 HP 3450 RPM 208/230/460/3 TEFC 56C FR. VM3550 BALDOR MOTOR
16	08175	1	8-1/4 X 3-1/2 X 5/8 D-HUB R825-350S 3450 CW. SPEC. 1-6465 REVCOR WHEEL
18	E10610	2	90C320 PNL BOX MTG BRKT
18.16	61035	5	KT3 BASE MOUNT 600V. CONNECTRON TERMINAL BLOCK MAXIMUM WIRE SIZE #8
20	12010	1	31G GUARDIAN PUMP COUPLING 5 1/2 X 1/2 X 7/16 LESS KEYWAY
21	10250	1	22R221D5C14 NOZZLE RATE 20 GPH AT 300 PSI 3450 RPM WEBSTER PUMP
22.1	X02503	1	S311AF02V8AC9 1/8 IN. OIL VALVE
23	32315	1	A12-SV10PF-XR 120/12000V DONGAN EPOXY TRANSFORMER
25	C95061	1	30B353 CR2 BPS O GUN AS DS JL
27	53259	1	33769-72 12 GPH AT 100 PSI 60 DEG. DELAVAN VARI FLO NOZZLE
57	M90002	1	90A30 6X3/4 LINKAGE ARM PLATED
58	17101	1	8024204107 ANTUNES SPDT AIR SWITCH
59S	F20010	1	3007 C1/2 SCAN PILOT FINAL ASB
60	26225	1	S-3-5 NO. 42572 3/8 IN. PIPE HAUCK SELF-CLEANING MICRO OIL VALVE
61	06025	1	M9174C-1025/P 120 V. H.W. MODUTROL MOTOR
	NOTE	*****	WITH LOW FIRE START INTERLOCK
61	06123 L 1		4074 EDC H.W. RESISTOR PACK FOR M934D MOD MOTOR
61	B11681	1	30ES1 MOD MTR PLT 79
69	C24110	1	30E5 C2/3 PILOT MTG PLT ASSY
78	32000	1	120/6000 VOLT GAS IGNITION TRANSFORMER
92	23300	1	3/8 IN.B-100-HCV 9124-100-0 BRASS FIROMATIC CHECK VALVE
94	X09910	1	2-1/2 SQ SIGHT GLASS





## SECTION C8

This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
09710	Square D Canada Electrical Equipment Inc. 6675 Rexwood Road Mississauga, Ontario L4V 1V1	(416) 678-7000	(416) 678-9514

Description of Components: Motor Control Center

Components:

Model MCC1

Model MCC2

SECTION C9

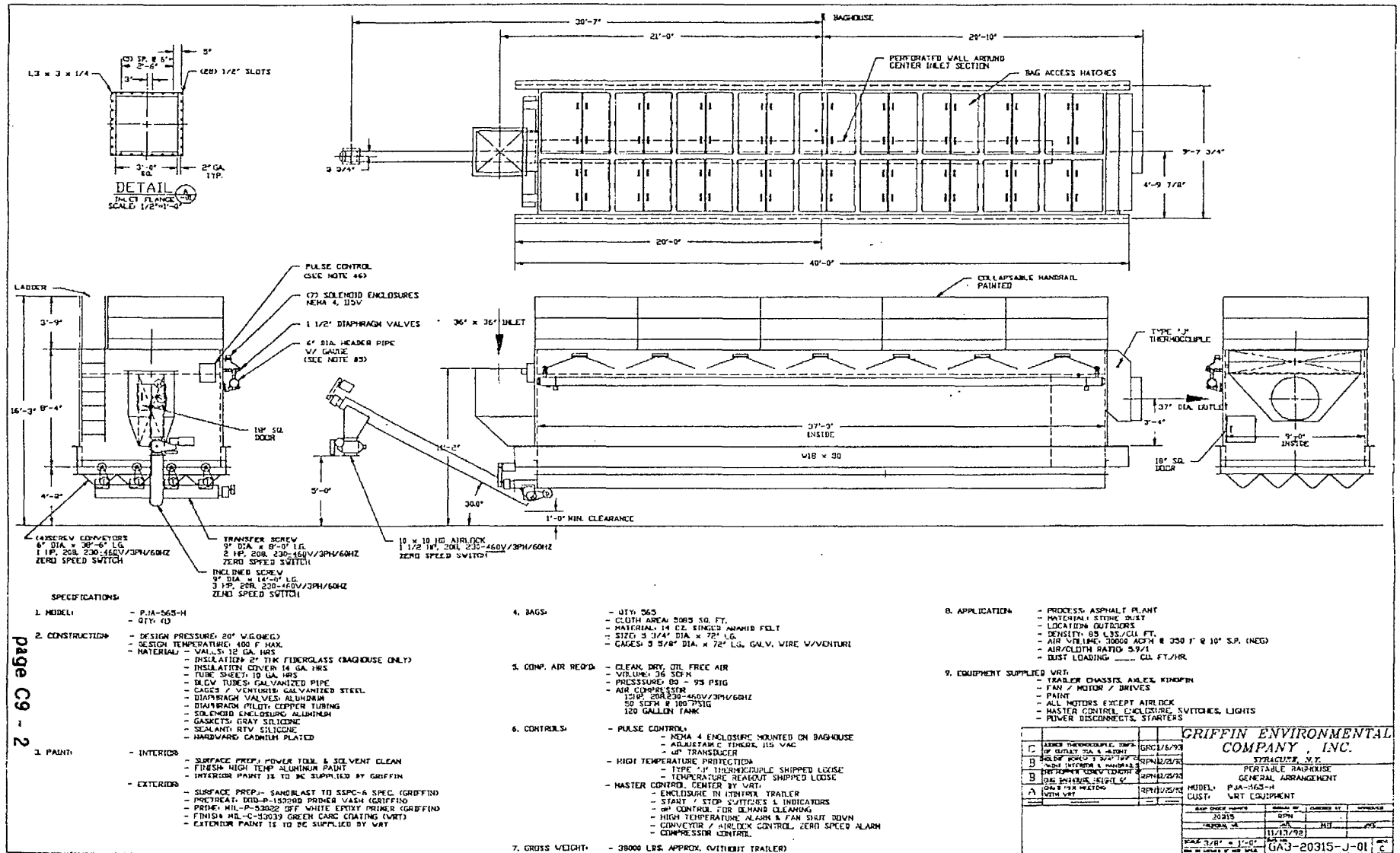
This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
OV4X4	Griffin Environmental Co. Inc. 7066 Interstate Island Road Syracuse, New York 13209-9796	(315) 451-5300	(315) 451-2338

Description of Components: Baghouse  
Screw Conveyors  
Vane Feeder

Components:

Model PJA-565-H



page C9 - 2

BILL OF MATERIALS: GENERAL ASSEMBLY

MODEL: PJA-565-H  
 ASSY. DWG: GA3-20315-J-01

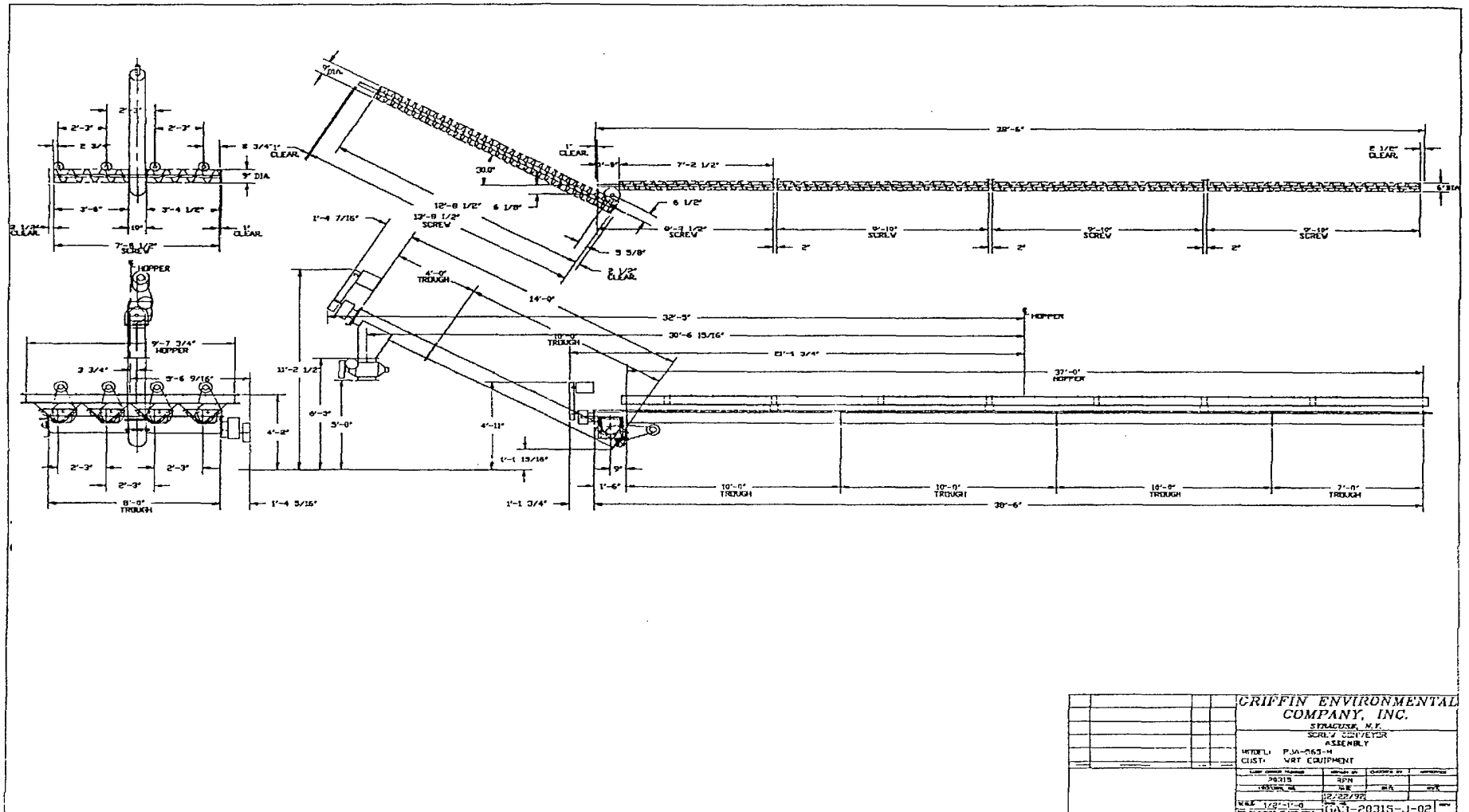
CUSTOMER: WRT EQUIPMENT LTD.

INTERIOR PAINT: HI-TEMP  
 EXTERIOR PAINT: WHITE EPOXY PRIMER

ITEM	QTY	MAT	DESCRIPTION	LENGTH	DWG NO.	RS EH V I P
1	1	FP	MODEL PJA-565-H CLEAN AIR PLENUM WITH: - (565)SINGED ARAMID FELT BAGS, 5 3/4" DIA. x 72" LG. - GALV. WIRE CAGES W/VENTURIS - TOP BAG ACCESS HATCHES - TOP HANDRAILS, COLLAPSABLE - INLET BOX W/CENTER INLET CHAMBER - OUTLET BOX - OUTLET TEMPERATURE SENSOR - 6" HEADER PIPE WITH 0-150 PSI GAUGE (55)1 1/2" DIA. DIAPHRAGM VALVES - NEMA 4 PULSE CONTROL - NEMA 4 SOLENOID ENCLOSURES - 2" THK. INSULATION WITH 14 GA. COVERS - MID SECTION OF TRAILER FRAME - BAGHOUSE INSPECTION DOOR	37'-0"	GA3-20315-J-01	A
2	1	FP	HOPPER WITH: - (4)TROUJGHS - (4)6" DIA. SCREW CONVEYORS - GEAR REDUCERS MOUNTED - ZERO SPEED SWITCHES MOUNTED - DRIVES SHIPPED LOOSE (SEE UNIT B/M) - 1 HP MOTORS BY WRT - 9" DIA. TRANSFER SCREW CONVEYOR - GEAR REDUCER MOUNTED - ZERO SPEED SWITCH MOUNTED - DRIVE SHIPPED LOOSE (SEE UNIT B/M) - 2 HP MOTOR BY WRT	37'-0"	GA3-20315-J-02	S
3	82	P	7/16-14 x 2" LG. BOLTS, NUTS, FLAT & LOCKWASHERS (FOR ASSY OF HOPPER TO BAGHOUSE) 4 20 P 5/8-11 x 2 1/2" LG. BOLTS, NUTS, FLAT (A 325) (FOR ASSY OF HOPPER TO BAGHOUSE)			S S
5	5	P	TUBE RTV SEALANT (FOR ASSY OF HOPPER TO BAGHOUSE)			S

^ P = PURCHASED  
 \_ F = FABRICATED

S= SEPARATED  
 A= ASSEMBLED \_\_\_\_\_ I



GRIFFIN ENVIRONMENTAL COMPANY, INC.			
SYRACUSE, N.Y.			
SCREW CONVEYER ASSEMBLY			
MODEL: PJA-763-14			
CUSTOMER: WRT EQUIPMENT			
DATE: 1/28/70	BY: JCS/ST	CHECKED BY: JCS	APPROVED BY: JCS
DRAWING NO: 103-20315-J-02			

CUSTOMER: WRT EQUIPMENT LTD.

INTERIOR PAINT: HI-TEMP  
 EXTERIOR PAINT: WHITE EPOXY PRIMER

ITEM	QTY	MAT	DESCRIPTION	LENGTH	DWCG NO.	R E S E H V I
6	1	FP	9" DIA. INCLINED SCREW CONVEYOR - GEAR REDUCER MOUNTED - ZERO SPEED SWITCH MOUNTED - DRIVE SHIPPED LOOSE (SEE UNIT B/M) - 3 HP MOTOR BY WRT		14'-0" GA3-20315-J-02	
7	1	P	10 x 10 HD ROTARY AIRLOCK WITH: - 1 1/2 HP GEARMOTOR MOUNTED - CHAIN DRIVE MOUNTED - ZERO SPEED SWITCH MOUNTED			S
8	22	P	1/2-13 UNC x 1 1/2" BOLT, NUT, FLAT & LOCK WASHER (FOR ASSY OF INCLINED SCREW & AIRLOCK)			S
9	1	P	TUBE RTV SEALANT (FOR ASSY OF HOPPER TO BAGHOUSE)			S
10	1	P	SCREW CONVEYOR & AIR COMPRESSOR DRIVES (SEE UNIT B/M)			S
11	1	P	AIR COMPRESSOR - INGERSOLL-RAND T3015120H - 120 GAL. RECEIVER - AIR COOLED AFTER COOLER - PRESSURE SWITCH - LOW OIL SWITCH - MOISTURE SEPARATOR AND TRAP - 15 HP MOTOR BY WRT			
12	1	P	DIFFRENTIAL PRESSURE READOUT - DWYER #A701			S
13	1	P	TEMPERATURE CONTROLLER - UNITED ELECTRIC #D932J44			S
14	1	P	BLACK LIGHT KIT - ULTRAVIOLET INSPECTION LAMP - TWO FLUORESCENT LEAK DETECTION POWDERS - CARRYING CASE			

^ P = PURCHASED  
 I F = FABRICATED

S= SEPARATED  
 A= ASSEMBLED I

BILL OF MATERIALS: SCREW CONVEYOR / AIR COMPRESSOR DRIVES      INVOICE: 20315  
 MODEL: PJA-565-H  
 ASSY. DWG: GA3-20315-J-02

CUSTOMER: WRT EQUIPMENT LTD,

INTERIOR PAINT:  
 EXTERIOR PAINT:

ITEM	QTY	MAT	DESCRIPTION	LENGTH	DWG NO,	RS EH VI P
			(4) 6" DIA. HOPPER SCREWS		GA3-20315-J-02	
1	4	P	MOTOR SHEAVE: 2B3.6 SH			S
2	4	P	MOTOR BUSHING: SH-7/8			S
3	8	P	V-BELTS: B60		(MATCHED - DO NOT MIX)	S
			9" DIA. TRANSFER SCREW			
4	1	P	MOTOR SHEAVE: 2B3,8 SH			S
5	1	P	MOTOR BUSHING: SH-7/8			S
6	2	P	V-BELTS: B60		(MATCHED - DO NOT MIX)	S
			9" DIA. INCLINED SCREW			
7	1	P	MOTOR SHEAVE: 2B4.2 SH			S
8	1	P	MOTOR BUSHING: SH-1 1/8			S
9	2	P	V-BELTS: B60		(MATCHED - DO NOT MIX)	S
			AIR COMPRESSOR			
10	1	P	MOTOR SHEAVE: _____			S
11	1	P	MOTOR BUSHING: _____			S
12	_____	P	V-BELTS: _____		(MATCHED - DO NOT MIX)	S



Mineral Insulated Thermocouple

MI15541012000JG

To order an MI thermocouple, select requirements from the following categories and fill in the boxes in column at left as shown in example.

MI	_____
15	_____
4	_____
1	_____
012	_____
000	_____
J	_____
G	_____
	_____

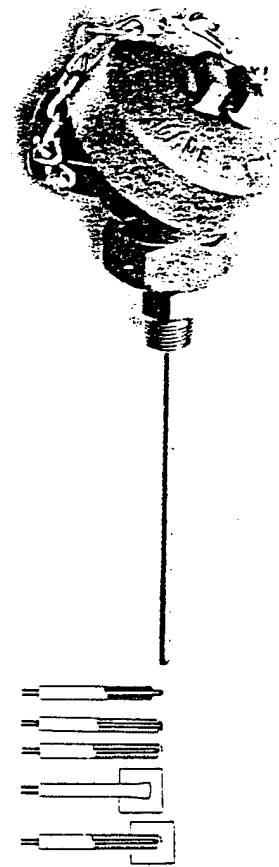
- 18 = Sheath with open head screw terminals and plated brass fitting. Head is suitable up to 400°F
- 19 = Sheath with fiberglass leadwires and miniature plug (available in 0.125 O.D. only if no leadwires specified) (jack or plug & jack available as options)
- 24 = Sheath with fiberglass leads and 1/2" NPT stainless steel hex fitting
- 29 = Sheath with nylon weatherproof head; 1/2" NPT process and conduit connections

- Style**  
MI = Mineral Insulated Thermocouple
- Assembly**  
01 = Sheath with 2' exposed leadwires  
02 = Sheath with fiberglass leadwires  
03 = Sheath with stainless steel armor over fiberglass leadwires  
04 = Sheath with stainless steel over-braid over fiberglass leadwires  
05 = Sheath with fiberglass leadwire and plug and jack  
06 = Sheath with stainless steel armor over fiberglass leadwires plus plug and jack  
07 = Sheath with stainless steel over-braid over fiberglass leadwires plus plug and jack  
14 = Sheath with plug and jack and plated brass fitting  
15 = Sheath with cast aluminum head and 1/2" NPT stainless steel hex fitting (head has 1/2" NPT process and 3/4" NPT conduit connections)  
16 = Sheath with cast iron head and 1/2" NPT stainless steel hex fitting (head has 1/2" NPT process and 3/4" NPT conduit connections)  
17 = Sheath with miniature weather-proof head and stainless steel fitting, 1/4" conduit on head. Head is suitable up to 350°F
- Sheath O.D.**  
3 = 0.063"  
4 = 0.125"  
6 = 0.188"  
7 = 0.250"  
9 = 0.375"
- Sheath Material**  
1 = 304 stainless steel (1650°F max process)  
3 = 316 stainless steel (1700°F max process)  
5 = Inconel® 600 (2000°F max process)
- Sheath Length**  
000 = Insert number of inches desired
- Leadwire Length**  
000 = insert number of inches desired. Use '000' for assemblies that do not have leadwires (i.e., 14, 15, 16, 17, 18 and 19 if no wire called out)
- Calibration**  
J = J  
K = K  
T = T  
E = E  
JJ = dual J  
KK = dual K  
TT = dual T  
EE = dual E  
} Not available in styles 17 or 18
- Hot Junction\***  
E = Exposed  
G = Grounded  
U = Ungrounded  
W = 1"x1"x0.125" welded stainless steel pad, grounded  
WI = 1"x1"x0.125" welded stainless steel pad, ungrounded

**In Stock**  
Items are available from stock in a 6" sheath length as listed below.

Description	Stock No.
MI0173006002JU	MI94423
MI0273006048JU	MI94467
MI0273006048KU	MI94488
MI1473006000JU	MI94523
MI1473006000KU	MI94544
MI0243006048JG	MI94450
MI0263006048JG	MI94457
MI0273006048JG	MI94464
MI0263006048KG	MI94478
MI0273006048KG	MI94485
MI1463006000JG	MI94513
MI1473006000JG	MI94520
MI1443006000KG	MI94527
MI1463006000KG	MI94534
MI1473006000KG	MI94541
MI15430065000JG	MI94600
MI15630065000JG	MI94601
MI15730065000JG	MI94602
MI15430065000KG	MI94603
MI15630065000KG	MI94604
MI15730065000KG	MI94605

\*Sheath length supplied designed to fit well with overall length 6".

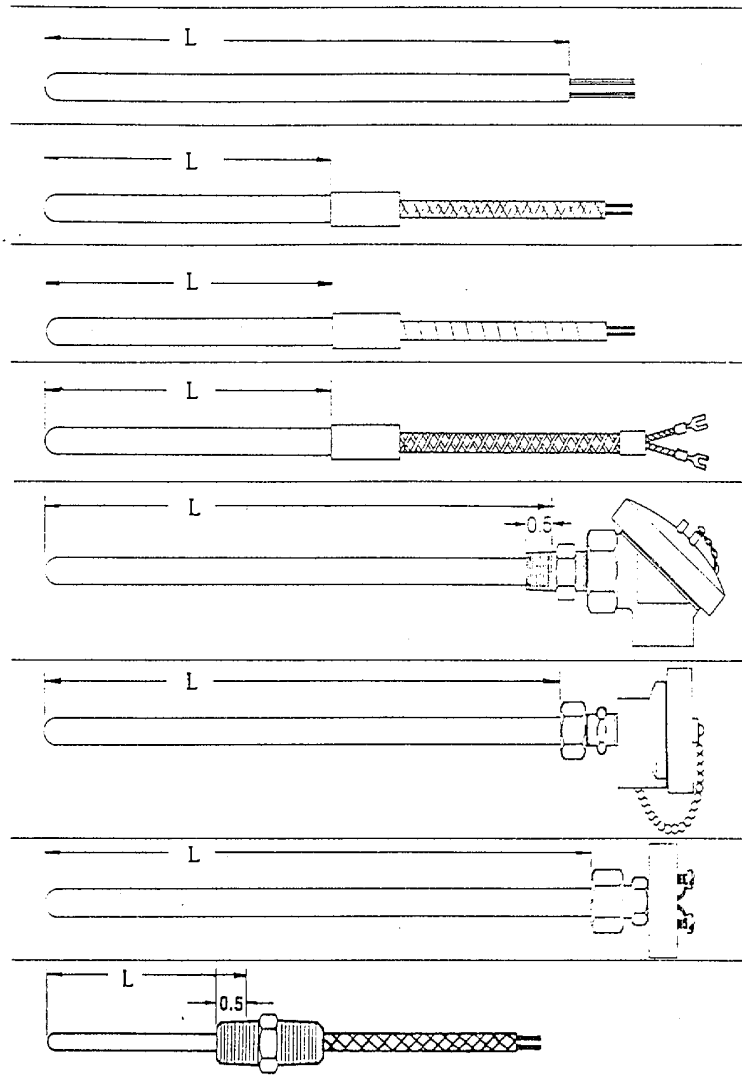


**Options**  
TF = Teflon leadwires  
PV = PVC leadwires  
See page 19 for other options

Mineral Insulated Thermocouples

Mineral Insulated Thermocouples can withstand high process temperatures, can be bent into various shapes and are corrosion resistant. Fiberglass leadwires are standard, Teflon® and PVC optional.

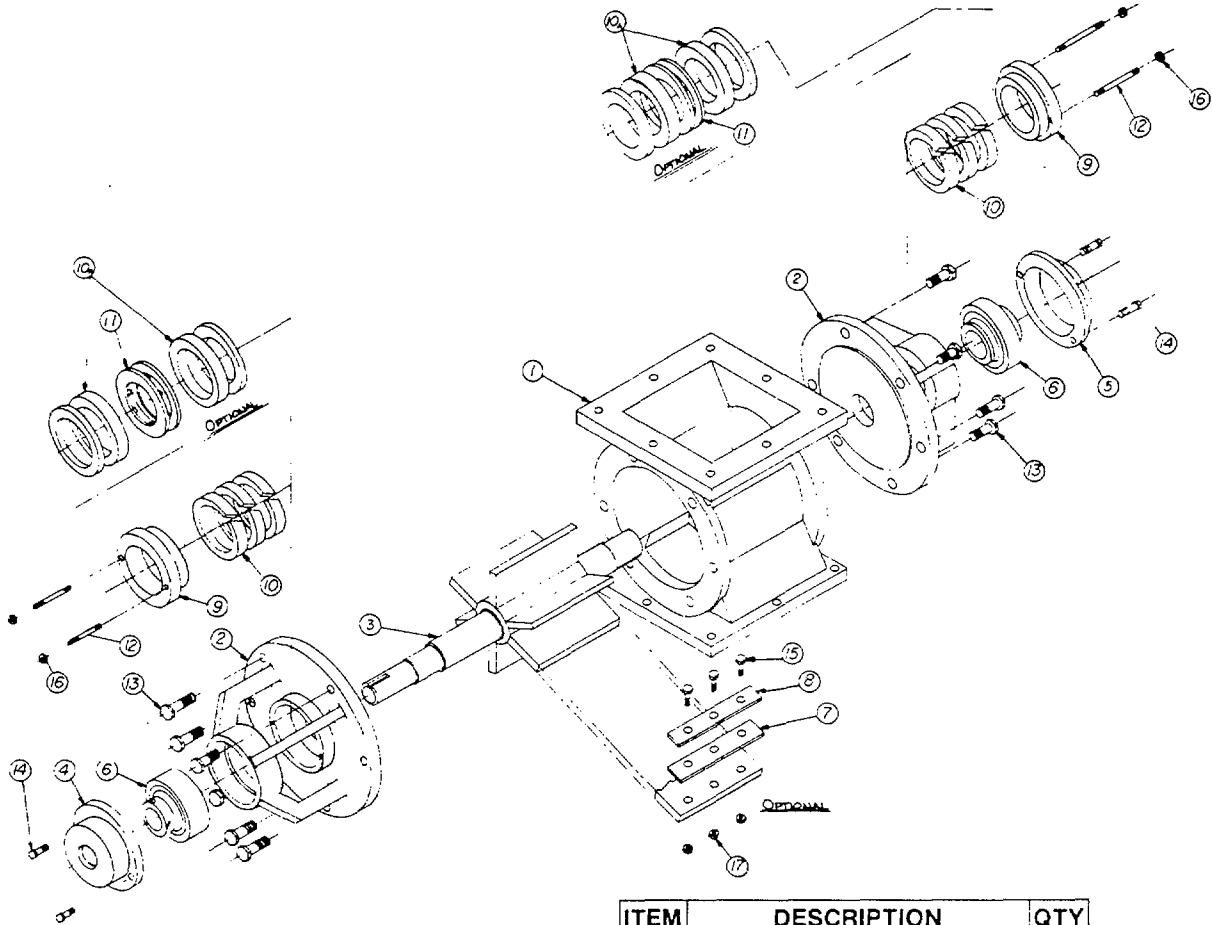
- Assembly 01, Sheath with 2 inches of exposed leadwires.
- Assembly 02, Sheath with fiberglass leadwires
- Assembly 03, Sheath with stainless steel armor over fiberglass leadwires
- Assembly 13, Sheath with stainless steel overbraid over fiberglass leadwires and #6 space terminals
- Assembly 15, 16, Sheath with cast aluminum or cast iron head with 1/2' NPT process and 3/4' NPT conduit connections and 1/2' NPT stainless steel hex fitting. If used with well specify well size.
- Assembly 17, Sheath with miniature weatherproof plastic head and stainless steel fitting 1/4' conduit on head. Head is suitable up to 350°F
- Assembly 18, Sheath with openhead screw terminals and plated brass fitting. Ceramic head is suitable up to 1 000°F
- Assembly 24, Sheath with fiberglass leadwires and 1/2' NPT stainless steel hex fitting. If used with well specify well size. "L" is total length as shown



How to Order

Example: MI 15 7 1 012 000 K U TF

- Mineral insulates type "K" thermocouple with Teflone leadwires
- 0.250 0 D by 12' long sheath of 304 stainless steel
- Cast aluminum head with 1/2' NPT process and 3/4' NPT conduit connections
- 1/2' NPT hex fitting
- Ungrounded hot junction



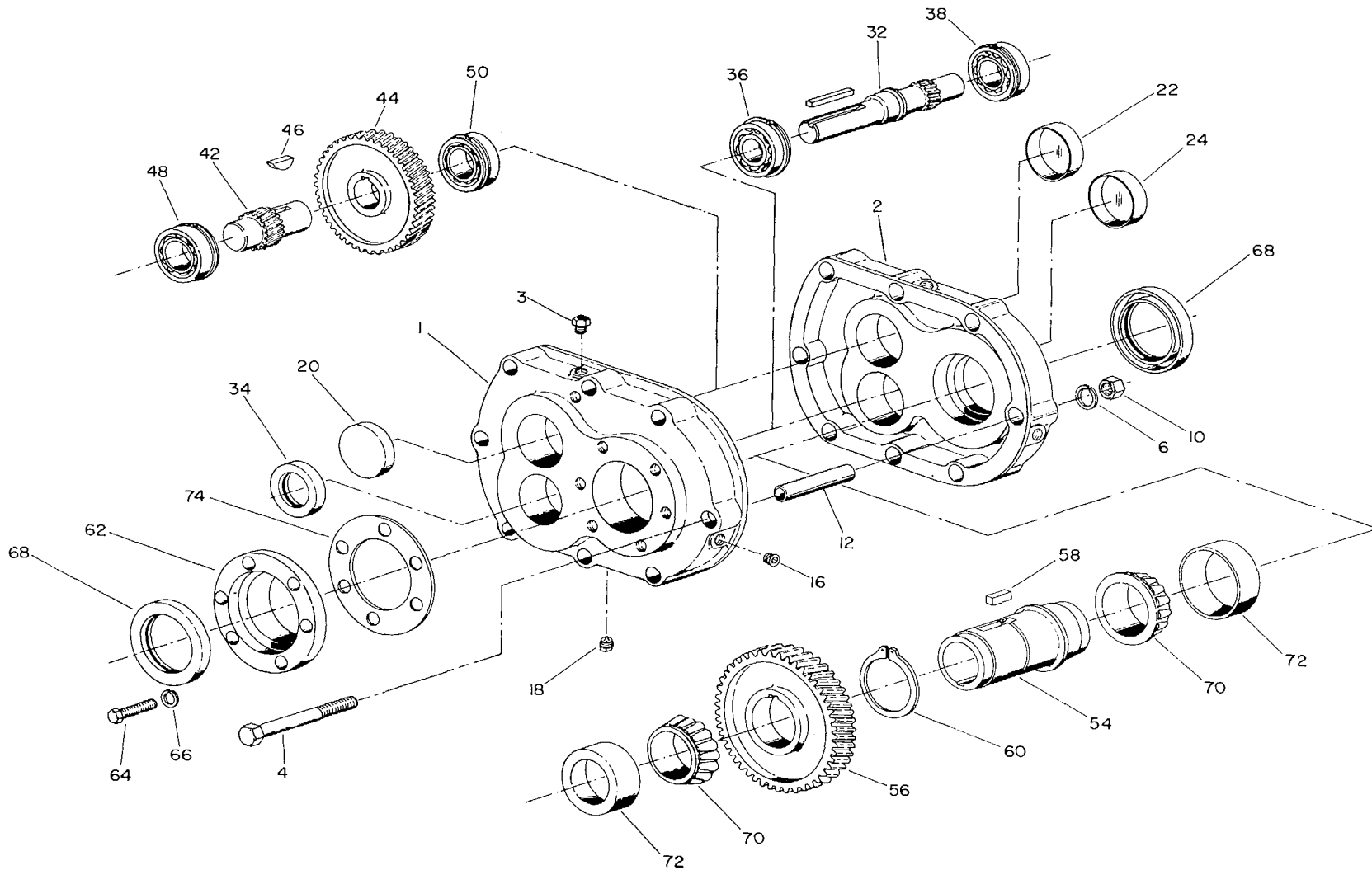
*Always give Original Serial Number from Nameplate, or your Original Purchase Order Number when ordering parts.*

ITEM	DESCRIPTION	QTY
1	HOUSING	1
2	HEADPLATE	2
*3	ROTOR	1
4	BEARING CAP—DRIVE END	1
5	BEARING CAP—BLIND END	1
*6	BEARING	2
*7	ROTOR SEAL STRIP	†
8	SEAL STRIP HOLDER	†
9	PACKING GLAND NUT	2
*10	PACKING	†
11	LANTERN RING	2
12	PACKING GLAND STUD	4
13	HEADPLATE BOLTS	†
14	BEARING CAP BOLTS	†
15	SEAL STRIP BOLTS	†
16	STUD NUTS	†
17	SEAL STRIP NUTS	†

\* RECOMMENDED SPARE PARTS  
 † AS REQUIRED

**PARTS FOR SCXT115 thru SCXT525 SCREW CONVEYOR DRIVE SPEED REDUCERS**

NOTE: The two digit numbers are for reference only. Order parts by the six digit numbers in the Parts List. Each six digit number is a complete identification of the part or assembly.



## PARTS FOR SCXT115 thru SCXT525 SCREW CONVEYOR DRIVE SPEED REDUCERS

Reference	Name of Part	No. Req'd.	SCXT115 and SCXT125	SCXT215 and SCXT225	SCXT315 and SCXT325	SCXT415 and SCXT425	SCXT515 and SCXT525
			Part No.	Part No.	Part No.	Part No.	Part No.
	HOUSING		351225	352219	353219	354419	355219
3	Air Vent	1	241237	241237	241237	241237	245237
4	Housing Bolt		411418	411418	411440	411442	411464
6	Lockwasher		419011	419011	419012	419012	419013
↓	Washer	1	419092	.....	.....	.....	419096
10	Hex Nut	↓	407087	407087	407089	407089	407091
12	Dowel Pin	2	420092	420091	420055	420055	420110
16	Pipe Plug	5	430031	430031	430031	430031	430033
18	Magnetic Drain Plug	1	430060	430060	430060	430060	430062
20	Countershaft Bearing Cover --- Input Side	1	242224	242224	243195	354114	355060
↓	Countershaft Bearing Cover Gasket (Input Side)	1	.....	.....	.....	.....	354113
↓	Countershaft Bearing Cover Screw (Input Side)	4	.....	.....	.....	.....	415022
22	Countershaft Bearing Cover --- Adapter Side	1	241224	243224	243224	243224	355060
24	Input Shaft Bearing Cover	1	361062	354112	354112	364062	355069
↓	Retainer Bolt	1	411549	411549	411551	411551	411551
↓	Lockwasher	1	419014	419014	419016	419016	419016
↓	Shaft Retainer	1	351116	352116	353053	354088	355065
32*	Input Shaft { 15:1 Ratio and Pinion { 25:1 Ratio	1	241302	242186	243009	244009	245009
*	Input Shaft Key	1	241200	242187	243004	244004	245004
34*	Input Shaft Seal	1	443000	443014	443032	443082	443113
36*	Input Shaft Bearing - Input SideΔ	1	241457	242203	243203	244203	245203
38*	Input Shaft Bearing - Adapter SideΔ	1	390283	392078	392079	392080	392088
			392077	392075	390288	390295	392082
42	COUNTERSHAFT { 15:1 Ratio ASSEMBLY* { 25:1 Ratio	1	392090	392092	392094	392096	392098
44*	▲Countershaft and Pinion	1	392091	392093	392095	392097	392099
46*	▲First Reduction { 15:1 Ratio Gear { 25:1 Ratio	1	241216	242185	243185	244185	245185
	▲Gear Key	1	241170	242008	243214	244214	245214
		1	241171	242005	243212	244212	245212
		1	241309	242218	243215	244215	244215
48*	Countershaft Bearing - Input SideΔ§	1	391757	392075	390295	391759	393032
50*	Countershaft Bearing - Adapter SideΔ	1	391757	392075	390288	392076	393032
54*	OUTPUT HUB ASSEMBLY* ▲Output Hub	1	391029	392105	392106	392107	392108
56*	▲Output Hub Gear	1	351112	352112	353049	354085	355049
58*	▲Output Hub Gear Key	1	241007	242181	243222	244188	245186
60*	▲Snap Ring	1	241217	443399	243216	391015	391026
			421013	421017	421021	.....	.....
62	Output Hub Seal Carrier	1	351114	352114	353083	354083	355052
64	Carrier Screw	6	411405	411407	411407	411407	411407
66	Lockwasher	6	419010	419011	419011	419011	419011
68*	Output Hub Seal	2	351111	352111	353059	354093	355070
70*	Output Hub Bearing - ConeΔ	2	390804	390812	391988	390836	391990
72*	Output Hub Bearing - CupΔ	2	390809	390816	391989	390841	391991
74*	Output Hub Shim Pack	1 Set‡	391056	391059	391062	391065	391068
↓	.002" Thick	†	427424	427428	427436	427420	427444
↓	.005" Thick	†	427425	427429	427437	427421	427445
↓	.010" Thick	†	427426	427430	427438	427422	427446
↓	.025" Thick	†	427427	427431	427439	427423	427447
↓	ADAPTER* { "A" ASSEMBLY ■ { "B" ASSEMBLY	1	351086	352052	353047	354121	355072
↓	▲Bolt	4	351087	352053	353047	354121	355072
↓	▲Lockwasher	4	411408	411433	411456	411483	411483
↓	▲Lip Seal	1	419011	419012	419013	419014	419014
↓	▲Braided Seal	2	351123	352122	353085	354115	355067
↓	▲Seal Retaining Ring	1	427663	427659	427658	427664	427674
			351121	352121	353054	354089	355066
↓	DRIVE SHAFT* { 1-1/2" Dia. { 2" Dia. { 2-7/16" Dia. { 3" Dia. { 3-7/16" Dia.	1	351094	352090	353042	.....	.....
		1	351095	352091	353043	354117	355076
		1	351096	352092	353044	354118	355077
		1	351097	352093	353045	354119	355078
		1	.....	.....	.....	354120	355079
↓	▲Key	1	443287	443223	443089	443114	443239

\* Includes parts listed immediately below marked "▲". Housing Assembly also includes two-piece housing Series SCXT1 & SCXT5 only. Adapter Assembly also includes adapter.

▲ These parts make up the assemblies under which they are listed. Housing Assembly also includes two-piece housing Series SCXT1 & SCXT5 only. Adapter Assembly also includes adapter.

Δ For manufacturers part number see tables 4,5, and 6 on page 5.

↓ Not shown on drawing.

‡ One set consists of one each of the shims listed immediately below marked "†".

† See last paragraph under "ORDERING PARTS".

● Series SCXT1 thru SCXT5 only when reducer was originally supplied with gasket.

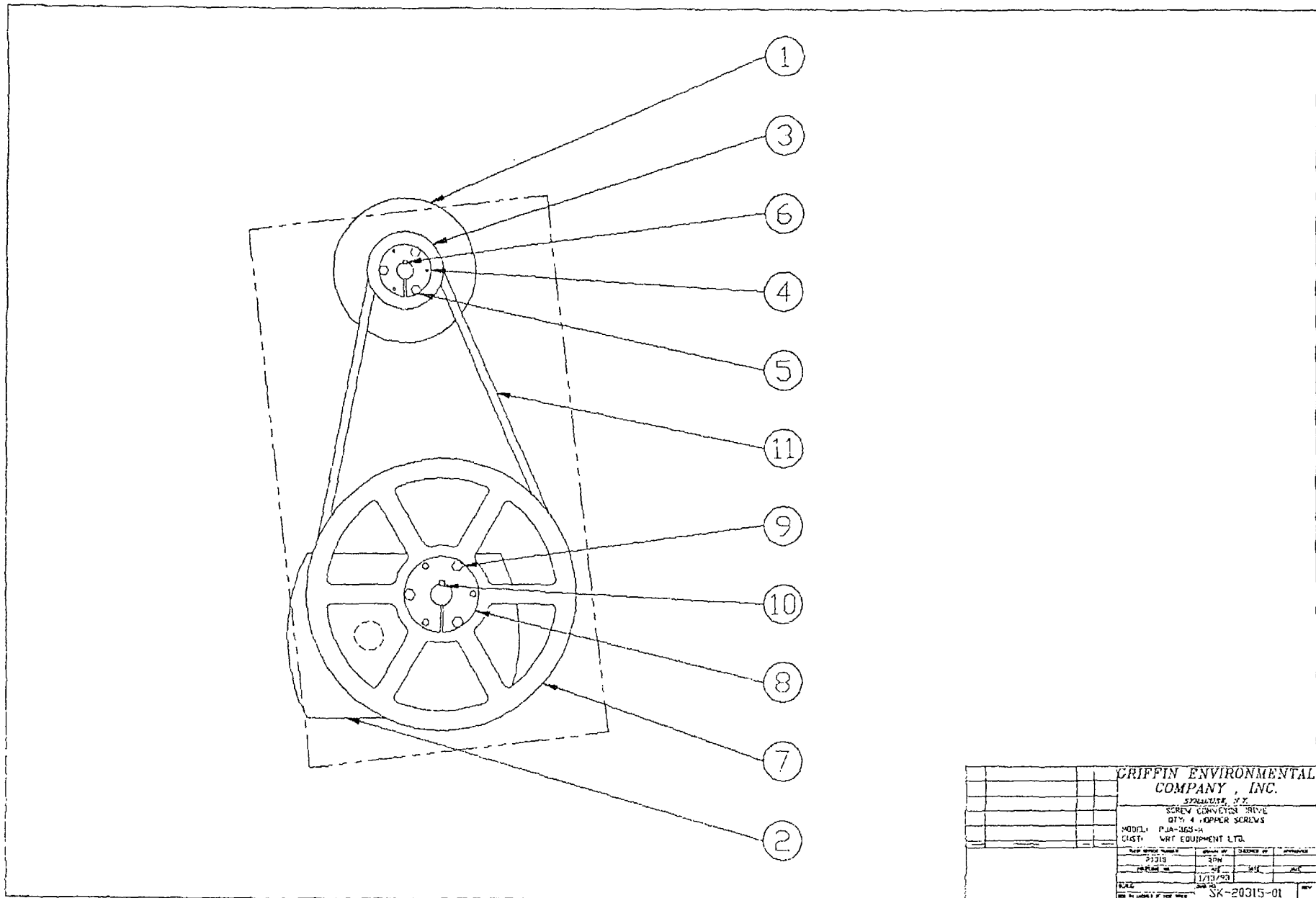
§ 6 req'd. for SCXT1 Series; 7 req'd. for SCXT2 Series; 8 req'd. for SCXT3, SCXT4, and SCXT5 Series.

◆ Includes roll pin for SCXT4 and SCXT5 Series.

■ Used only on SCXT1 and SCXT2 with 1-1/2" Dia. shafts.

\* Recommended spare parts.

§ Double row ball bearing on SCXT415 & SCXT425.

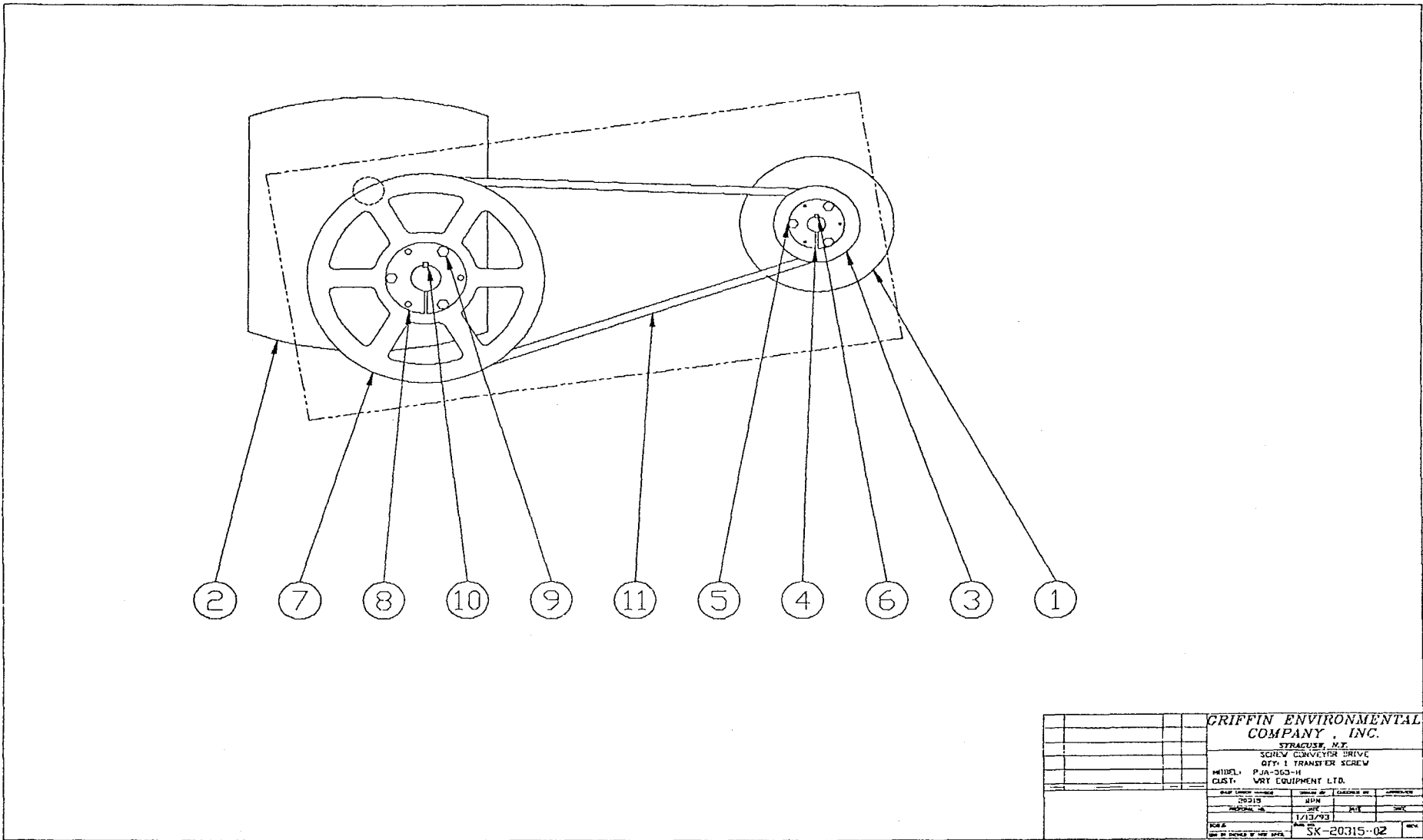


GRIFFIN ENVIRONMENTAL COMPANY, INC.			
SPRINGFIELD, N.Y.			
SCREW CONVEYOR DRIVE			
QTY: 4, HOPPER SCREWS			
MODEL: PJA-165-H			
DISTR: WHT EQUIPMENT LTD.			
DATE ORDER PLACED	DATE OF	QUANTITY OF	APPROVED
2/2/83	3/2/83	4	
REPLACED BY	BY	CHK	DATE
	1/13/93		
DATE	DATE		
	SK-20315-01		

PARTS LIST - REFERENCE DWG SK-20315-01  
 SCREW CONVEYOR DRIVE  
 QTY: 4 HOPPER SCREWS

Job: 20315  
 Customer: WRT Equipment Ltd.  
 Model: PJA-565-H  
 Date: 1/13/93

ITEM NO.	QTY EA.	QTY TOTAL	DESCRIPTION	MANUFACIURER	PART NO.
1	1	4	1 HP MOTOR	BY WRT	
2	1	4	GEAR REDUCER	DODGE	SCXT225
3	1	4	MOTOR SHEAVE		2B3.6SH
4	1	4	MOTOR BUSHING		SH-7/8
5	3	12	1/4-20 x 1 3/8 CAPSCREW		
6	1		4 3/16 SQ. KEY x 1 1/2" LG.		
7	1	4	REDUCER SHEAVE		2B13.6SK
8	1	4	REDUCER BUSHING		SK-1 1/8
9	3	12	5/16-18 x 2 CAPSCREW		
10	1	4	1/4 SQ. KEY x 2" LG.		
11	2	8	V-BELT		B60



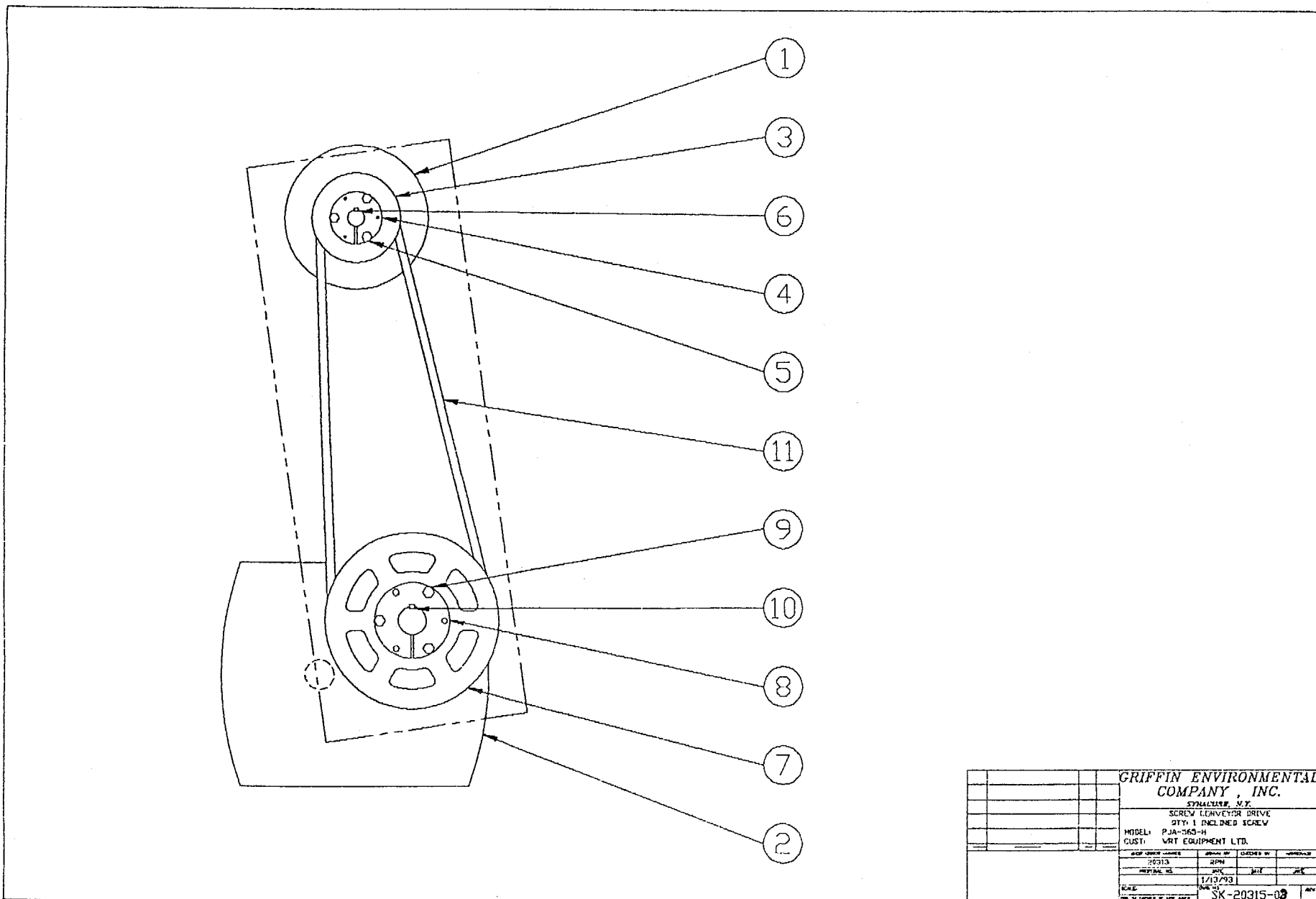
GRIFFIN ENVIRONMENTAL COMPANY, INC.			
SYRACUSE, N.Y.			
SCREW CONVEYER DRIVE			
QTY: 1 TRANSFER SCREW			
M1192L PJA-303-H			
CLUST: VRY EQUIPMENT LTD.			
DATE	QUANTITY	ISSUED BY	APPROVED BY
2/2/15	1	SK	SK
REVISION NO.	REV.	DATE	BY
		1/2/15	SK
SCALE			AS SHOWN
DRAWN BY			SK-20315-02



PARTS LIST - REFERENCE DWG SK-20315-02  
 SCREW CONVEYOR DRIVE  
 QTY: 1 TRANSFER SCREW

=====  
 Job: 20315  
 Customer: WRT Equipment Ltd.  
 Model: PJA-565-H  
 Date: 1/13/93

ITEM NO.	QTY EA.	QTY TOTAL	DESCRIPTION	MANUFACTURER	PART NO.
1	1	1	2 HP MOTOR	BY WRT	
2	1	1	GEAR REDUCER	DODGE	SCXT425
3	1	1	MOTOR SHEAVE		2B3.8SH
4	1	1	MOTOR BUSHING		SH-7/8
5		3	3 1/4-20 x 1 3/8 CAPSCREW		
6	1	1	3/16 SQ. KEY x 1 1/2" LG.		
7	1	1	REDUCER SHEAVE		2B1.OSK
8	1	1	REDUCER BUSHING		SK-1 7/16
9		3	3 5/16-18 x 2 CAPSCREW		
10	1	1	1/4 SQ. KEY X 2" LG.		
11	2	2	V-BELT	B60	



<b>GRIFFIN ENVIRONMENTAL COMPANY, INC.</b>			
SYRACUSE, N.Y.			
SCREW CONVEYOR DRIVE			
QTY: 1 INCLINED SCREW			
MODEL: PJA-260-H			
CUST: VRT EQUIPMENT LTD.			
REP ORDER NUMBER	QUANTITY	ORDERED BY	APPROVED BY
20313	2000		
REPTAL NO.	DATE	BY	CHK
	1/13/93		
SCALE	DATE		REV
	SK-20315-02		

PARTS LIST - REF CE DWG SK-20315-03  
 SCREW CONVEYOR DRIVE  
 QTY: 1 INCLINED SCREW

=====

Job: 20315  
 Customer: WRT Equipment Ltd.  
 Model: PJA-565-H  
 Date: 1/13/93

ITEM NO.	QTY EA.	QTY TOTAL	DESCRIPTION	MANUFACTURER	PART NO.
1	1	1	3 HP MOTOR	BY WRT	
2	1	1	1 GEAR REDUCER	DODGE	SCXT425
3	1	1	MOTOR SHEAVE		2B4.2SH
4	1	1	MOTOR BUSHING		SH-1 1/8
5	3	3	1/4-20 x 1 3/8 CAPSCREW		
6	1	1	1/4 SQ. KEY x 1 1/2" LG.		
7	1	1	REDUCER SHEAVE		2B8.6SK
8	1	1	1 REDUCER BUSHING		SK-1 7/16
9	3	3	5/16-18 x 2 CAPSCREW		
10	1	1	3/8 SQ. KEY x 2" LG.		
11	2	2	V-BELT		B60

**SECTION C10**

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5389537424.

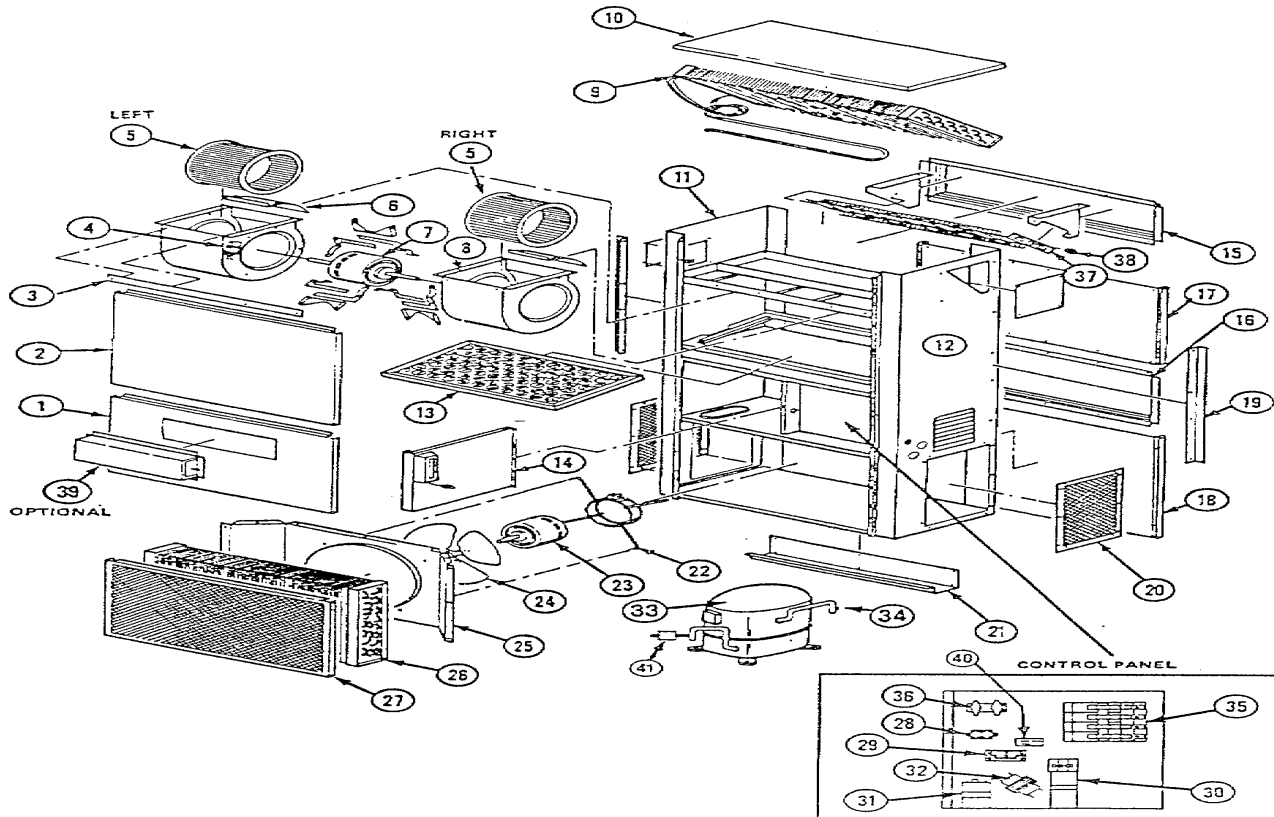
<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
31093	Nordyne Inc. 1801 Park 270 Drive Saint Louis, MO 63146	(800) 422-4328	(314) 878-4386

**Description of Components:**Environmental Control Unit (ECU)**Components:****Model:**

AWYB030KB10

**REPLACEMENT PARTS LIST**

AW Series, Type 01  
Single Package Vertical Air Conditioners  
Models AWCBIAWYB, AWCCIAWYC'-(Single Phase) -018, -a024,-030, -036,  
-042, -048, -060- (three Phase) 2081230V, -036C, -042C, -048C, -060C,  
460V, -036D, -042D, -048D, -060D



**IMPORTANT WHEN ORDERING REPLACEMENT PARTS:** Specify the appliance "Model Number" and "Serial Number," (shown on unit data label). Select appropriate "Part Order No. " from this sheet for each pan requested. Consult nearest Authorized Dealer or Distributor; or for additional Information Specifications or designs are subject to change or discontinuance without notice and without incurring obligations.

Specifications and illustration subject to change without notice without incurring obligations Printed in USA  
7067630 0291 (Replaces 7066270 0390;

REF. No.	SPEC. No.	PART DESCRIPTION	REF. No.	SPEC. No.	PART DESCRIPTION	REF. No.	SPEC. No.	PART DESCRIPTION
1.	458180-	Panel, Front Middle (Models -018, -024)	25.	439620-	Panel, Orifice (Models -018, -024)	37.	631962-	Assembly, Heater 5 KW (Models -018 thru -036K)
	458810-	Panel, Front Middle (Models -030, -036)		439430-	Panel, Orifice (Models -030, -036)		631963-	Assembly, Heater 10 KW (Models -018 thru -036K)
	459910-	Panel, Front Middle (Models -042, -048, -060)		440040-	Panel, Orifice (Models -042 thru -060)		632015-	Assembly, Heater 9 KW (Model -036C)
2.	439650-	Panel, Front Top (Models -018, -024)		444930-	Panel, Orifice (Models -030, -036)		632016-	Assembly, Heater 15 KW (Model-036C)
	439490-	Panel, Front Top (Models -030, -036)	26.	663129-	Coil, Condenser (Models -018, -024)		632068-	Assembly, Heater 9 KW (Model-036D) 460V } 15 KW Heater
	440070-	Panel, Front Top (Models -042, -048, -060)		663131-	Coil, Condenser (Models -030, -036)		632069-	Assembly, Heater 15 KW (Model-036D) 460V } 5 KW & (1) 10 K
3.	231360-	Bracket, Blower Support		663133-	Coil, Condenser (Models -042, -048)		632070-	Assembly, Heater 9 KW
* 4.	620273-	Capacitor, Blower Motor (5UF/370V) (Models -018, -024, -030, -036)		663260-	Coil, Condenser (Model -060)			(Models -042D thru -060D) 460V
	620233-	Capacitor, Blower Motor (10UF/370V) (Models -042, -048, -060)	27.	344590-	Assembly, Screen Condenser (Models -018, -024)		632071-	Assembly, Heater 15 KW } 15 KW Heater
				341890-	Assembly, Screen Condenser (Models -030, -036)			(Models -042D thru -060D) 460V } Assembly uses (1) 5 KW & (1) 10 K
				342040-	Assembly, Screen Condenser (Models -042 thru -060)		632072-	Assembly, Heater 18 KW
5.	667142-	Wheel, Blower (Right)	* 28.	621060-	Relay, Blower, All 460V Models		631964-	Assembly, Heater 5 KW (Models -042 thru -060K)
	667143-	Wheel, Blower (Left)	* 29.	621038-	Contact, Compressor (Models -018 thru -048)		631965-	Assembly, Heater 10 KW (Models -042 thru -060K)
6.	231480-	Close-off Plate, Blower (Models -018 thru -036)		620948-	Contact, Compressor (Model -060)		632017-	Assembly, Heater 9 KW (Models -042C, -048C, -060C)
	341940-	Close-off Plate, Blower (Models -042 thru -060)		620733-	Contact, Compressor 3-Phase		632018-	Assembly, Heater 15 KW (Models -042C, -048C, -060C)
* 7.	620843-	Motor, Blower (Models -018 thru -036)	* 30.	911069-	Starting Kit — Optional (Models -018 thru -036)		632019-	Assembly, Heater 18 KW (Models -042C, -048C, -060C)
	620844-	Motor, Blower (Models -042 thru -060)			NOTE: Not used on AWCC/AWYC -024, 036 Models.			NOTE: 20 KW Heater Assembly uses (2) 10 KW Heaters.
	621050-	Motor Blower 2Sp (-018 thru -036)		911070-	Starting Kit — Optional (Models -042, -048)	* 38.	626250-	Limit, Heater 5 KW } 15 KW Heater
	621051-	Motor Blower 2Sp (-042 thru -060)		911099-	Starting Kit — Optional (Models -042, -048)		626260-	Limit, Heater 10 KW } Assembly uses (1) 626259- & (1) 626260-
	621053-	Motor Blower (-042D thru -060D) 460V		911099-	Starting Kit — Optional (Models -042, -048)		626326-	Limit, Heater 1-Phase 460V
	621054-	Motor Blower (-042D thru -060D) 460V		911412-	(Copeland Compressor)		626327-	Limit, Heater 2-Phase 460V
8.	439760-	Assembly, Blower Housing (Models -018 thru -036)		911412-	Starting Kit — Optional (Model -060)			NOTE: 460V 3-Phase Heaters use (1) Single Pole and (1) Two Pole
	439770-	Assembly, Blower Housing (Models -042 thru -060)	* 31.	620780-	Capacitor, Dual 25/5/370V (Model -018)			NOTE: 9 KW (3-Phase) Heater Assembly uses (1) 626260- Limit.
				620764-	Capacitor, Dual 35/5/440V (Models -024, -030, -042)			15 & 18 KW (3-Phase) Heater Assembly uses (1) 626260- and (1) 626259-Limits.
9.	663130-	Coil, Evaporator (Models -018, -024)		620765-	Capacitor, Dual 40/5/440V (Models -036K, -048K)	* 39.	911068-	Kit, Fresh Air Intake—Optional
	663132-	Coil, Evaporator (Models -030, -036)		620651-	Capacitor (55MFD/440V) (Model -060K)	* 40.	632060-	Time Delay Relay (Models AWCC/AWYC -018, 030)
	663134-	Coil, Evaporator (Models -042, -048)		620273-	Capacitor, Outdoor Fan Motor (5UF/370V) (Models -036C, -042C, -048C, -060)	* 41.	632053-	High Pressure Switch (Model AWCC/AWYC -024, -036)
10.	439610-	Pan, Top (Models -018, -024)	* 32.	621059-	Transformer 24V/30VA, All 460V Models			
	439510-	Pan, Top (Models -030, -036)	* 33.	912298-	Compressor (Model -018)			
	440050-	Pan, Top (Models -042 thru -060)		912299-	Compressor (Model AWCB/AWYB -024)			
11.	460760-	Assembly, Wrapper (Left, Models -018, -024)		912300-	Compressor (Model AWCC/AWYB -030)			
	458790-	Assembly, Wrapper (Left, Models -030, -036)		910714-	Compressor (Model -042C)			
	458890-	Assembly, Wrapper (Left, Models -042 thru -060)		911025-	Compressor (Model -048C)			
12.	456390-	Assembly, Wrapper (Right, Models -018, -024)		911089-	Compressor (Model -048K)			
	456370-	Assembly, Wrapper (Right, Models -030, -036)		911461-	Compressor (Model -060K)	* 42.	911096-	Thermostat, Heating/Cooling
	456410-	Assembly, Wrapper (Right) (Models -042 thru -060)		912290-	Compressor (Model -036C)	* 43.	911095-	Thermostat, Cooling Only
* 13.	668541-	Filter (Models -018, -024)		911501-	Compressor (Model -042C)		632065-	Fuse TD 20A
	668542-	Filter (Models -030, -036)		911502-	Compressor (Model -048C)		632062-	Fuse TD 25A
	668543-	Filter (Models -042 thru -060)		911402-	Compressor (Model -060C)		632027-	Fuse TD 30A
14.	354750-	Door, Control Panel (Models -018, -024)		911935-	Compressor (Model -036D)		631862-	Fuse TD 40A
	459401-	Door, Control Panel (Models -030 thru -060)		911938-	Compressor (Model -047D)		632066-	Fuse TD 45A
	355950-	Door, Control Panel (All 460V)		912214-	Compressor (Model -060D)		631924-	Fuse TD 50A
15.	439750-	Assembly, Collar Outlet (Models -018, -024)		912587-	Compressor (Model AWCC/AWYC -024)		631679-	Fuse OT 30A
	439550-	Assembly, Collar Outlet (Models -030, -036)		912276-	Compressor (Model AWCC/AWYC -030)		631686-	Fuse OT 40A
	439800-	Assembly, Collar Outlet (Models -042 thru -060)		912589-	Compressor (Model AWCC/AWYC -036)		632049-	Fuse OT 45A
18.	439780-	Assembly, Collar Return (Models -018, -024)		662857-	Insert, Refrigerant Service Valves (2)		632020-	Fuse OT 50A
	439540-	Assembly, Collar Return (Models -030, -036)	* 34.	621033-	Fused Disconnect 2P 30A		631678-	Fuse OT 60A
	439810-	Assembly, Collar Return (Models -042 thru -060)	* 35.	621034-	Fused Disconnect 2P 60A		* 728401-	Package, Unit Literature
17.	439590-	Panel, Rear Top (Models -018, -024)		621029-	Fused Disconnect 4P 30/60A			
	439560-	Panel, Rear Top (Models -030, -036)		621030-	Fused Disconnect 4P 60A			
	440090-	Panel, Rear Top (Models -042 thru -060)		621031-	Fused Disconnect 3P 30A			
18.	443180-	Panel, Rear Bottom (Models -018, -024)		621032-	Fused Disconnect 3P 60A			
	439570-	Panel, Rear Bottom (Models -030, -036)		631839-	Terminal Block			
	440100-	Panel, Rear Bottom (Models -042 thru -060)		631878-	Insulator Terminal Block } All 460V			
19.	342190-	Bracket, Wall Side		620519-	Sequencer 5 and 10 KW } Models			
20.	231360-	Assembly, Screen Bottom Side (Models -018 thru -036)	* 36.	620520-	Sequencer 15 KW (Models -030, -036)			
	231640-	Assembly, Screen Bottom Side (Models -042 thru -060)		620521-	Sequencer 20 KW			
21.	342210-	Bracket, Wall Bottom (Models -018, -024)		620716-	Contact, Heating 9 KW (3-Phase 230/208 Models)			
	342200-	Bracket, Wall Bottom (Models -030 thru -060)		620733-	Contact, Heating 15 KW (3-Phase 230/208 Models)			
22.	668601-	Bracket, Support Motor (Models -018, -024)		620734-	Contact, Heating 18KW (3-Phase 230/208 Models)			
	668602-	Bracket, Support Motor (Models -030, -036)						
* 23.	668603-	Bracket, Support Motor (Models -042 thru -060)						
	621055-	Motor, Fan, Outdoor All 460V Models						
* 24.	667139-	Blade, Fan Outdoor (Models -018, -024)						
	667140-	Blade, Fan Outdoor (Models -030, -036)						
	667141-	Blade, Fan Outdoor (Models -042 thru -060)						

\* = PARTS SHOULD BE STOCKED BY DISTRIBUTOR

**SECTION C11**

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5389537424.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
31934	Hauck Manufacturing P.O. Box 90 Lebanon, PA 1722042	(717) 272-3051	(717) 273-9882

**Description of Components:**

Damper Actuator

**There are no component parts required.**

**SECTION C12**

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5389537424.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
09742	Viking Pump P.O. Box 398, 661 Grove Avenue Windsor, Ontario N9A 6M3	(519) 256-5438	(519) 256-5070

Description of Components:

Asphalt Metering Pump  
Asphalt Meter  
Fuel Pump

Components:

Model	KK225
Model	KK230
Model	G115



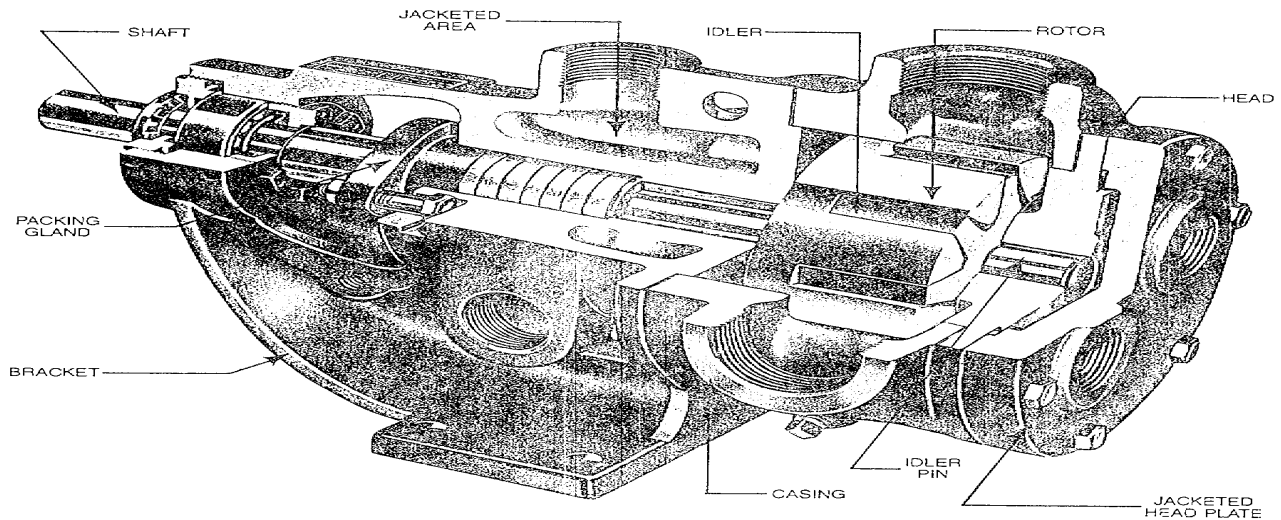
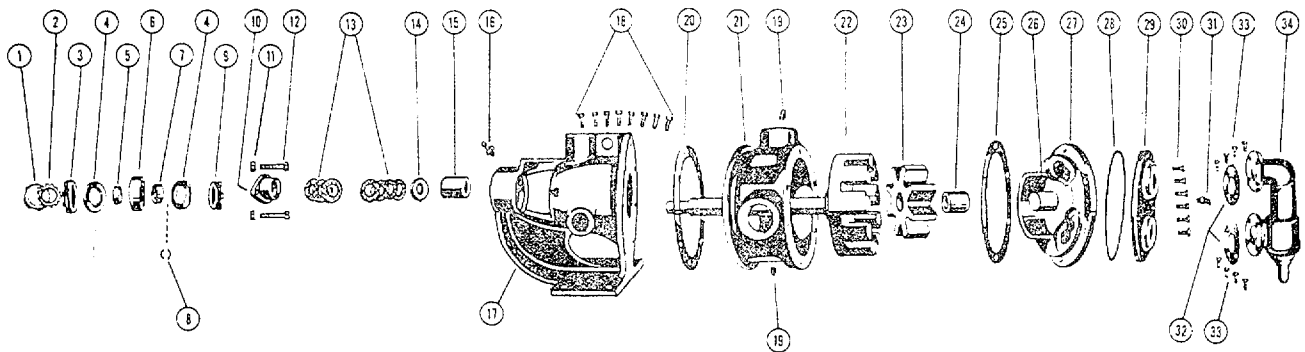


FIGURE 4  
Cutaway View of KK225 with Callouts

**Exploded View for Models H225, HL225, K225, KK225, L225, LQ225 and LL225 (Model KK225 shown)**

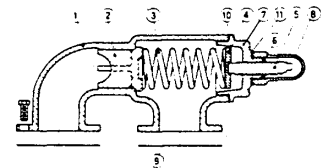


ITEM	NAME OF PART	ITEM	NAME OF PART	ITEM	NAME OF PART	ITEM	NAME OF PART
1	Locknut	10	Packing Gland	19	Pipe Plug	28	Gasket for Jacketed Head Plate
2	Lockwasher	11	Packing Gland Nut	20	Bracket Gasket	29	Jacketed Head Plate
3	End Cap, (outer)	12	Packing Gland Capscreww	21	Casing	30	3/8 i Capscrew for Head
4	Lip Seal for End Cap	13	Packing	22	Rotor and Shaft	31	Grease Fitting
5	Bearing Spacer Collar (outer)	14	Packing Retainer	23	Idler and Bushing	32	Relief Valve Gasket
6	Ball Bearing	15	Bracket Bushing	24	Idler Bushing	33	Capscrew for Valve
7	Bearing Spacer Collar (inner)	16	Grease Fitting	25	Head Gasket	34	Internal Relief Valve
8	Ring, Half Round (Not H,HL)	17	Bracket and Bushing	26	Idler Pin		
9	End Cap (inner)	18	Capscrew for Bracket	27	Head and Idler Pin		

**RELIEF VALVE INSTRUCTIONS**

**DISASSEMBLY**

- (1) Remove valve bonnet.
- (2) Measure and record the length of extension of the adjusting screw.
- (3) Loosen the adjusting nut and rotate the adjusting screw counter-clockwise until the spring pressure is released fully.
- (4) Remove the cap, retainer disc, spring and poppet, from the valve body. Clean and inspect all parts for wear or damage and replace if necessary.



Models: J, K, KK, L, LQ, LL

**REASSEMBLY**

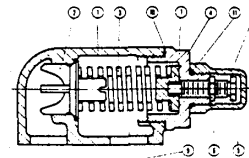
Simply reverse the procedure outlined under disassembly. If the valve has been removed from the pump for inspection, be sure to replace in the same position. The bonnet should point towards the suction port.

**PRESSURE ADJUSTMENT**

The pressure setting on any relief valve supplied on a pump should be adjusted and/or checked for setting on individual applications as the valve is supplied with a spring that is adjustable within a given pressure range.

To check the setting place a pressure gauge in the discharge line between the pump and discharge gate valve. Slowly close the gate valve until full bypass pressure is obtained. This pressure should be greater than the normal operating pressure. If not, it can be increased by turning the relief valve adjusting screw inward until the desired setting is achieved. After the relief valve has been set, the locking nut can be tightened and the bonnet can be re-assembled.

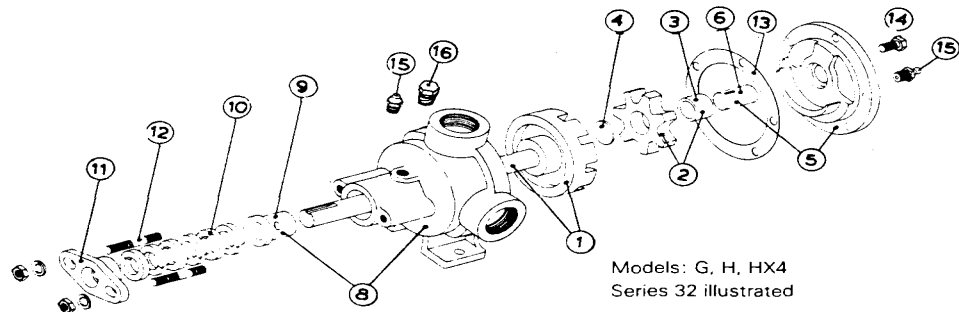
When ordering relief valve springs, be sure to state the maximum operating pressure required.



Models: G, H, HX4

ITEM NO.	NAME OF PART
1	BODY   J THRU N JACKETED BODY AVAILABLE
2	POPPET
3	SPRING
4	RETAINER DISC
5	ADJUSTING SCREW
6	ADJUSTING PIN
7	CAP
8	BONNET
9	GASKET (PORT)
10	GASKET (CAP)
11	GASKET (BONNET)

**REPLACEMENT PARTS LST**



Models: G, H, HX4  
Series 32 illustrated

ITEM NO.	NAME OF PART
1	ROTOR & SHAFT ASSEMBLY
2	IDLER & BUSHING ASSEMBLY
3	BUSHING (Idler)
4	IDLER DISC
*5	HEAD & IDLER PIN ASSEMBLY, H, HX4-JACKETED HEAD AVAILABLE
6	IDLER PIN

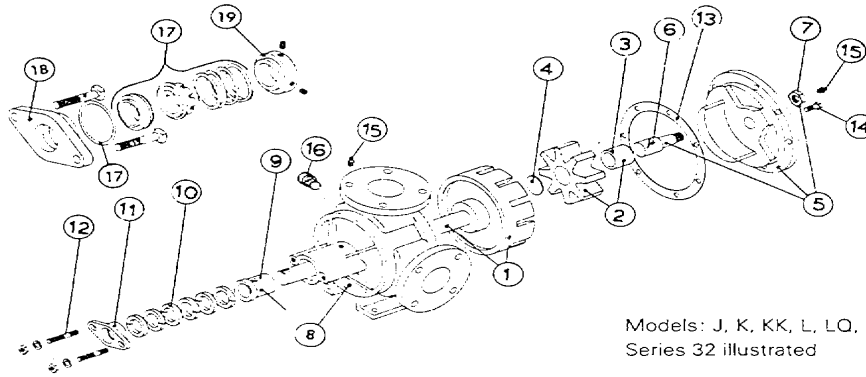
ITEM NO.	NAME OF PART
7	IDLER PIN NUT
8	CASING & BUSHING ASSEMBLY, SPECIFY LEFT OR RIGHT HAND PORTED CASING, HX4 JACKETED CASING AVAILABLE
9	BUSHING
10	PACKING
11	PACKING GLAND

ITEM NO.	NAME OF PART
12	PACKING GLAND STUDS, NUTS & WASHERS
13	GASKET (Head)
14	HEAD BOLT
15	GREASE FITTING
16	PIPE PLUG

NOTE: A JACKETED HEAD CANNOT ACCEPT A RELIEF VALVE.



REPLACEMENT PARTS LIST CONTINUED



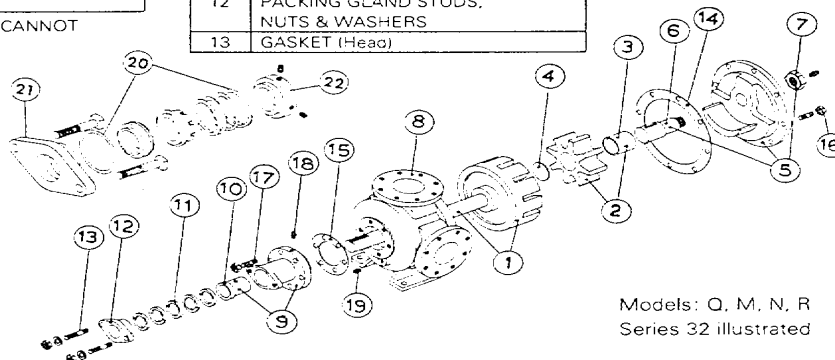
Models: J, K, KK, L, LO, LL  
Series 32 illustrated

ITEM NO.	NAME OF PART
1	ROTOR & SHAFT ASSEMBLY
2	IDLER & BUSHING ASSEMBLY
3	BUSING (Idler)
4	IDLER DISC
*5	HEAD & IDLER PIN ASSEMBLY, JACKETED HEAD AVAILABLE
6	IDLER PIN
7	IDLER PIN NUT

ITEM NO.	NAME OF PART
8	CASING & BUSHING ASSEMBLY, SPECIFY LEFT OR RIGHT HAND PORTED CASING, KK, LO, Q, M, N-JACKETED CASING AVAILABLE
9	BUSHING (Casing)
10	PACKING
11	PACKING GLAND
12	PACKING GLAND STUDS, NUTS & WASHERS
13	GASKET (Head)

ITEM NO.	NAME OF PART
14	HEAD BOLT
15	GREASE FITTING
16	PIPE PLUGS
17	MECHANICAL SEAL ASSEMBLY
18	SEAL SEAT RETAINER
19	SET COLLAR

NOTE: A JACKETED HEAD CANNOT ACCEPT A RELIEF VALVE.



Models: O, M, N, R  
Series 32 illustrated

ITEM NO.	NAME OF PART
1	ROTOR & SHAFT ASSEMBLY
2	IDLER & BUSHING ASSEMBLY
3	BUSING (Idler)
4	IDLER DISC
*5	HEAD & IDLER PIN ASSEMBLY, JACKETED HEAD AVAILABLE
6	IDLER PIN
7	IDLER PIN NUT
8	CASING, SPECIFY LEFT OR RIGHT HAND PORTED CASING, KK, LO, Q, M, N-JACKETED CASING AVAILABLE

ITEM NO.	NAME OF PART
9	ROTOR BEARING SLEEVE & BUSHING ASSEMBLY, KK, LO, Q, M, N-JACKETED ROTOR BEG SLEEVE AVAILABLE
10	BUSHING (Rotor Bearing Sleeve)
11	PACKING
12	PACKING GLAND
13	PACKING GLAND STUDS, NUTS & WASHERS
14	GASKET (Head)

ITEM NO.	NAME OF PART
15	GASKET (Rotor Bearing Sleeve)
16	HEAD BOLTS
17	RBS STUDS & NUTS
18	GREASE FITTING
19	PIPE PLUG
20	MECHANICAL SEAL ASSEMBLY
21	SEAL SEAT RETAINER
22	SET COLLAR

NOTE: A JACKETED HEAD CANNOT ACCEPT A RELIEF VALVE.



VIKING PUMPS

661 Grove Ave., P.O. Box 398, Windsor, Ontario N9A 6M3, Canada  
Telephone: 519-256-5438 Telex: 064-77644

PRINTED IN CANADA  
SP 2/84-10M

**RELIEF VALVE INSTRUCTIONS**

**DISASSEMBLY**

- (1) Remove valve bonnet.
- (2) Measure and record the length of extension of the adjusting screw.
- (3) Loosen the adjusting nut and rotate the adjusting screw counter-clockwise until the spring pressure is released fully.
- (4) Remove the cap, retainer disc, spring and poppet, from the valve body. Clean and inspect all parts for wear or damage and replace if necessary.

**REASSEMBLY**

Simply reverse the procedure outlined under disassembly. If the valve has been removed from the pump for inspection, be sure to replace in the same position. The bonnet should point towards the suction port.

**PRESSURE ADJUSTMENT**

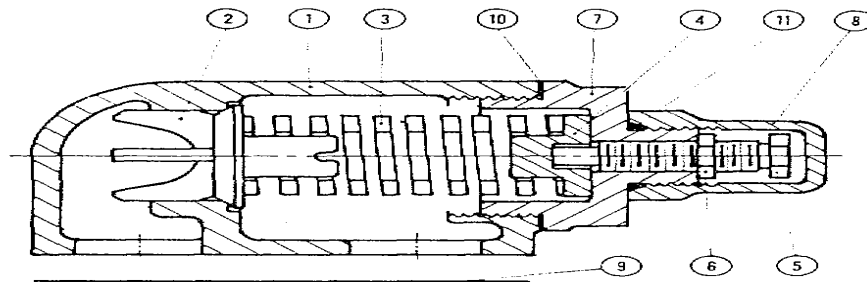
The pressure setting on any relief valve supplied on a pump should be adjusted and/or checked for setting on individual applications as the valve is supplied with a spring that is adjustable within a given pressure range.

To check the setting place a pressure gauge in the discharge line between the pump and discharge gate valve. Slowly close the gate valve until full bypass pressure is obtained. This pressure should be greater than the normal operating pressure. If not, it can be increased by turning the relief valve adjusting screw inward until the desired setting is achieved. After the relief valve has been set, the locking nut can be tightened and the bonnet can be re-assembled.

When ordering relief valve springs, be sure to state the maximum operating pressure required.

**Model KK230**

**REPLACEMENT PARTS LIST**



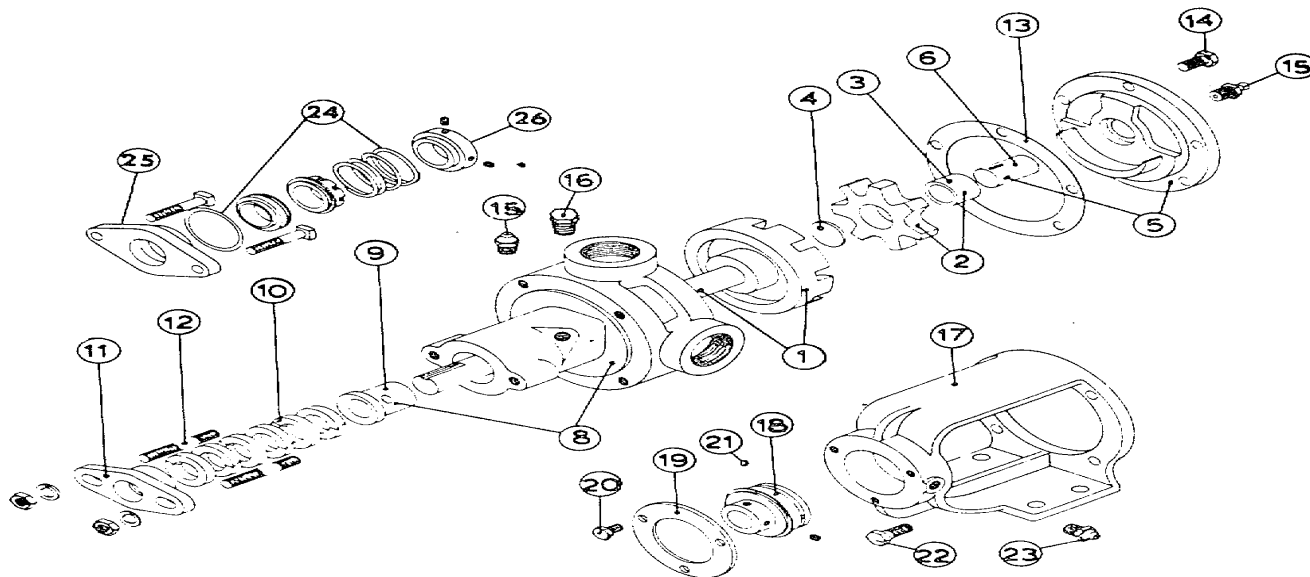
ITEM NO.	NAME OF PART
1	BODY
2	POPPET
3	SPRING
4	RETAINER DISC
5	ADJUSTING SCREW
6	ADJUSTING NUT

ITEM NO.	NAME OF PART
7	CAP
8	BONNET
9	GASKET (IPOINT)
10	GASKET (CAP)
11	GASKET (BONNET)



**REPLACEMENT PARTS LIST**

**Model G115**



ITEM NO.	NAME OF PART
1	ROTOR & SHAFT ASSEMBLY
2	IDLER & BUSHING ASSEMBLY
3	BUSHING (IDLER)
4	IDLER DISC
5	HEAD & IDLER PIN ASSEMBLY
6	IDLER PIN
8	CASING & BUSHING ASSEMBLY
9	BUSHING
10	PACKING
11	PACKING GLAND
12	PACK'G GLAND STUDS, NUTS & WASHERS
13	GASKET (HEAD)

ITEM NO.	NAME OF PART
14	HESD BOLT
15	GREASE FITTING
16	PIPE PLUG
17	BEARING HOUSING
18	BALL BEARING
19	BEARING RETAINER
20	RETAINER BOLT
21	SET SCREW
22	HOUSING BOLT
23	GREASE FITTING
24	MECHANICAL SEAL ASSEMBLY
25	SEAL SEAT RETAINER
26	SET COLLAR



**VIKING PUMPS**

661 Grove Ave., P.O. Box 398, Windsor, Ontario N9A 6M3, Canada  
 Telephone: 519-256-5438      Telex: 064-77644

**SECTION C13**

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5389537424.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
OCGS1	Alien Bradley 1201 South Second Street Milwaukee, Wisconsin 53204	(414) 382-2000	(414) 382-4444

Description of Components:

Data Table Access Module  
Programmable Logic Controller

Components:

Model

Cat #1747-DTAM

Model

SLC500

# Chapter 10

## Replacement Parts

This chapter provides a list of replacement parts and a list of replacement terminal blocks for your SLC 500 controller.

### Replacement Parts

This table provides a list of replacement parts and their catalog numbers.

Description	Catalog Number
6-inch chassis Interconnect Cable	1746-C7
36-inch chassis Interconnect Cable	1746-C9
32 Point Interconnect Cable	1746-C15
Replacement Fuses - Five fuses per package. Orders must be for five fuses or multiples of five.	
Replacement fuse for Catalog Number for 1746-P1 power supply.	1746-F1
Replacement fuse for Catalog Number for 1746-P2 power supply	1746-F2
Replacement fuse for Catalog Number for 1746-P3 power supply.	1746-F3
Replacement fuse for Fixed I/O AC units. MDL 1.25 Ampere	1746-F4
Replacement fuse for Fixed I/O DC units, MDL 1.6 Ampere	1746-F5
Modular Card Slot Fillers - Two fillers per package. Orders must be for two fillers or multiples of two	1746-N2
Connector - Mating Connector for 32 Point user-made cable	1746-N3
Kit consisting of 4 replacement terminal covers and labels for 4, 8, 16 I/O modules	1746-R9
Replacement Covers and Labels for Power Supply - Catalog Number 1746-P1	1746-R10
Replacement Covers for Power Supply	
Blank covers and two cover labels for Catalog Numbers 1746-P2 & P3 power supplies. Orders must be for two covers or multiples of two	1746-R11
Replacement Covers for SLC 501 and 502 Processors	1746-R12
Orders must be for two covers or multiples of two	
Replacement Cover for Specialty I/O	1746-R13
Two covers per package. Orders must be for two covers or multiples of two.	
Replacement Covers and Labels for 503. Orders must be for two covers or multiples of two.	1746-R14
Replacement Retainer Clips for Modules	174-R15
Four clips per package. Orders must be for four clips or multiples of four.	
Lithium Battery Assembly	
This is an optional part used for the SLC 500 Fixed and Modular Hardware Style processors and the Hand-Held Terminal. 1747-BA	
Refer to product documentation for proper storage and handling instructions. For disposal information, consult your nearest Allen-Bradley Sales Office.	
Processor to Peripheral programming, communication Cable	1747-C10
Processor to Isolated Link Coupler Cable	1747-C11
Specialty Module to Isolated Link Coupler Cable	1747-C13
503 RS-232 Program Cable	1747-CP3
Replacement Keys for the 503 processor	1747-KY1
EEPROM1 with 1K User Instructions	1747-M1
EEPROM with 4K User Instructions	1747-M12
UV PROM with 1K User Instructions	1747-M13
UV PROM with 4K User Instructions	1747-M4
Adapter Sockets - Orders must be for five sockets or multiples of five	1747-M5

**Chapter 10**  
**Replacement Parts**

Description	Catalog Number
5,03 flash EPROM	1747-M 1
5,03 adapter socket	1747-M 15
Replacement Parts Kit for 20 1/0 Fixed Hardware Style Processor	
Two Output Terminal Covers	
Two Input Terminal Covers	1747-R5
Two Prom, Battery Covers	
One HHT/Comm Connector Cover	
Replacement Parts Kit for 30 & 40 1/0 Fixed Hardware Style Processors	
Two Output Terminal Covers	
Two Input Terminal Covers	1747-R7
Two Prom, Battery Covers	
One HHT/ Comm Connector Cover	
Replacement Terminal Covers for 4, 8, & 16 1/0 Modules	1747-R9
This kit contains (4) blank covers and appropriate labels for replacement of any required 1/0 module cover.	
Replacement Covers for Power Supply	
Blank covers and two cover labels for Catalog Number 1746-P1 power supply. Orders must be for two covers or multiples of two.	1747-R10
HHT Keypad Replacement Overlay for English Memory Pak Firmware Releases 1.02, 1.07 and 1.10	1747-R20
HHT Keypad Replacement Overlay for French Memory Pak Firmware Releases 1.10	1747-R20F
HHT Keypad Replacement Overlay for German Memory Pak Firmware Releases 1.10	1747-R20G
HHT Keypad Replacement Overlay for Italian Memory Pak Firmware Releases 1.10	1747-R20I
HHT Keypad Replacement Overlay for English Memory Pak Firmware Releases 2.00 and Later	1747-R21
HHT Keypad Replacement Overlay for French Memory Pak Firmware Releases 2.00 and Later	1747-R21F

**Replacement Terminal Blocks**

This table provides a list of replacement terminal blocks and their catalog numbers.

Description	Catalog Number
Replacement Terminal Block (Red) - Used wnh AC 1/0 modules, Catalog Numbers 1746-tA16, OA16, IM1fi	1746-RT25R
Replacement Terminal Block (Blue) - Used with DC 1/0 modules, Catalog Numbers 1746-IB16, IV16, 0816, OV16, IN16, IG16, OG16	1746-RT25B
Replacement Terminal Block (Orange) - Used with relay output modules, Catalog Numbers 1746-OW16, OX8	1746-RT25C
Replacement Terminal Block (Green) - Used with Specialty I/O modules, Catalog Numbers 1746-HSCE, 1012	1746-RT25G
Replacement Terminal Block - 2 position terminal block used with analog output modules, Catalog Numbers NO4V	1746-RT26 1746-N041,
Replacement Terminal Block-- 8 position terminal block used with analog output modules, Catalog Numbers 1746-NO41	1746-RT27
Replacement Terminal Block - Used with analog input modules, Catalog Numbers 1746-N14, N1041, N104V	1746-RT28
Replacement Terminal Block - Used with RIO Communication Modules, Catalog Numbers 1747-SN, DSN, DCM	1746-RT29
Replacement Terminal Block - Used with DH-485 Link Coupler, Catalog Number 1747-AIC	1746-RT30



**SECTION C14**

This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5389537424.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
09710	Square D Canada Electrical Equipment Inc. 6675 Rexwood Road Mississauga, Ontario L4V 1V1	(416) 678-7000	(416) 678-9514

**Description of Components:** Variable Speed Drives (Telemecanique)

**Components:**

**Model** Altivar 5 Series 45-2

There are no component parts required. Refer to the Maintenance Manual for additional information.

**SECTION C15**

This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5389537424.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
OWXW3	Systems Equipment Corp. P.O. Box 19 Waukon, Iowa 52172	(319) 568-6387	(319) 568-6224

**Description of Components:**

- Asphalt Meter
- Aggregate Belt Scale
- Speed Sensor
- Blending Controller

**Components:**

- Model** AM-080 Asphalt Meter
- Model** 30 - Weigh Bridge
- Model** Peacekeeper Blending Controller (the manual for this controller is included in Appendix F of the Operator's Manual)
- Model** FFF60-12C Speed Sensor

SYSTEMS WEIGH SCALE  
INSTALLATION, ALIGNMENT, AND CALIBRATION PROCEDURES

Note: Check for physical damage upon receipt of SYSTEMS Single Idler Weigh Scale.

CONTENTS

- 1-0) Weigh Scale Parts List
- 2-0) Conveyor Evaluation
- 3-0) Weigh Scale Assembly
- 4-0) Weigh Scale Installation
- 5-0) Weigh Scale Alignment
- 6-0) Weigh Scale Calibration

**1-0 WEIGH SCALE PARTS LIST**

1-1) Standard parts list includes:

- |                                  |                           |
|----------------------------------|---------------------------|
| 1) frame weldment                | 8) 1/2 x 2 1/4" hex bolt  |
| 1) 7" channel weldment           | 4) 1/2 hex nut            |
| 1) load cell                     | 8) 5/16 x 1 1/4" hex bolt |
| 1) spacer 1/2" x 1 3/4" x 3 1/2" | 8) 5/16 lockwasher        |
| 2) V-block clamp                 | 8) 1/2 lockwasher         |
| 2) idler modification brace      | 4) 1/2 flat washer        |
| 1) shim package 2 1/2" x 10'     |                           |
| 4 @ 1/4 thick                    |                           |
| 2 @ 1/8 thick                    |                           |
| 4 @ 1/16 thick                   |                           |

1-2) Options Part List Includes:

- |  |                      |
|--|----------------------|
| 2) 50 lb. test weight weldment         | } TEST WEIGHT OPTION |
| 2) test weight mtg. tube weldment \par |                      |
| 8) 3/8 x 3/4" hex bolt                 |                      |
| 8) 3/8 x 3/4" hex bolt                 |                      |
| 8) 3/8 lockwasher                      |                      |
| 1) electrical junction box             |                      |
| 1) modified troughing idler            |                      |

**SECTION C16**

This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
OWXN6	Sew-Eurodrive Company of Canada Ltd. 210 Walker Drive Bramalea, Ontario L6T 3W1	(416) 791-1553(416)	791-2999

**Description of Components:**

Asphalt Metering Pump Gear Reducer  
Slat Conveyor Drive Gear Reducer

**Components:**

**Model**

R60

**Model**

R133Z

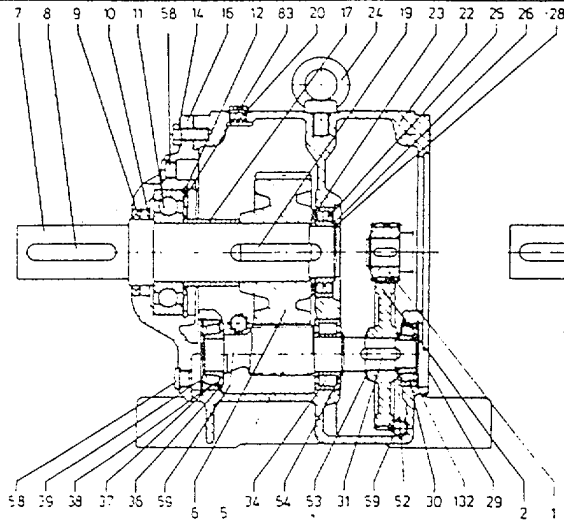


# Parallel (Helical) Reducers

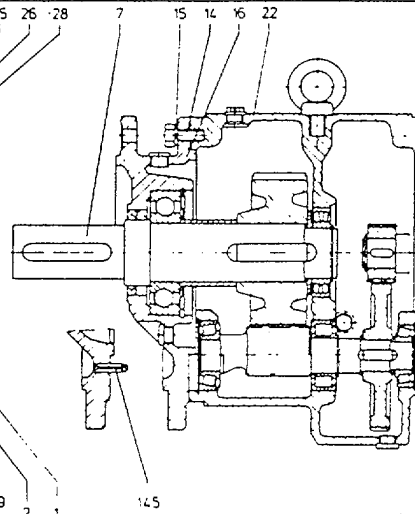
① R 132/133A    ② RF 132/133A

## PARTS LIST

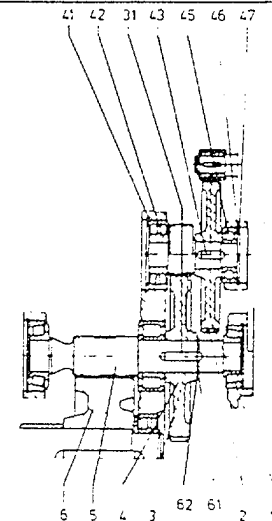
01 339 14 C



2-gear stages



3-gear stages



When ordering parts, please supply nameplate data with serial number or S O number, model number, description of part and part number. All gears are stamped with a part number.

For motors, input covers, variable speed units, housings and adapters attached to the input side, refer to the respective parts list

X = as required

26	Shim	75x90x0.3mm	012 055 3	X
26	Shim	75x90x0.1mm	012 054 5	X
25	Roller Bearing	22215	010 590 2	1
24	Eye Bolt	M24mm	010 233 4	1
23	Spacer		116 211 X	1
22	Gear Case ②		116 471 6	1
22	Gear Case ①		116 469 4	1
20	Breather Plug	M22x1.5mm	010 466 X	1
19	Key	B25x16x90mm	013 481 3	1
17	Spacer		116 135 0	1
16	Output Flange ②	550mm Dia.	116 132 6	1
16	Output Flange ②	450mm Dia.	116 130 X	1
16	Output Cover ①		116 128 8	1
15	Lockwasher	B16mm	010 995 9	8
14	Hex Head Screw ②	M16x45mm	011 024 8	8
14	Hex Head Screw ① ②	M16x40mm	010 127 3	8
12	Snapping	200x4mm	011 458 8	1
11	Ball Bearing	6319	011 060 4	1
10	Oil Seal	A105x140x12mm	010 643 7	1
9	Oil Seal	AS105x140x12mm	010 671 2	1
8	Key	7/8x7/8x4-5/8 in.		1
7	Output Shaft	3.625 in. Dia.	116 134 2	1
6	Gear			1
5	Pinion Shaft			1
4	Gear			1
3	Pinion Shaft			1
2	Gear			1
1	Pinion			1
Item	Part Name	Description	Part No.	Qty.

145	Dowel Pin ②	16x40mm	011 366 2	2
132	Snapping	90x3mm	010 326 8	1
83	Nilos Ring	6319JV	011 819 2	1
62	Shim (3 stage)	50x62x0.3mm	010 400 0	X
62	Shim (3 stage)	50x62x0.1mm	010 376 4	X
61	Snapping (3 stage)	50x2mm	010 289 X	1
59	Drain Plug	M22x1.5mm	011 467 1	3
58	Drain Plug	M22x1.5mm	011 466 2	2
54	Snapping	50x2mm	010 289 X	1
53	Thrust Washer	45x55x3mm	010 353 5	1
52	Thrust Washer	40x50x2.5mm	010 352 7	1
47	Snapping	100x3mm	010 327 6	1
46	Shim	80x100x0.3mm	010 405 1	X
46	Shim	80x100x0.1mm	010 381 0	X
45	Ball Bearing	6407	010 540 6	1
43	Key	B12x8x28mm	011 487 1	1
42	Roller Bearing	22308	010 593 7	1
41	Snapping	110x4mm	010 328 4	1
39	Snapping	110x4mm	010 328 4	1
38	Shim	90x110x0.3mm	010 406 X	X
38	Shim	90x110x0.1mm	012 382 9	X
37	Taper Roller Bearing	30310	012 469 9	1
36	Nilos Ring	30310AV	013 653 0	1
34	Roller Bearing	NUP 2310E	013 707 3	1
31	Key (3 stage)	B16x10x40mm	011 005 1	1
31	Key (2 stage)	B14x9x40mm	010 060 9	1
30	Taper Roller Bearing	30308	010 604 6	1
28	Gasket		107 403 2	1
28	Snapping	75x4mm	010 310 1	1
Item	Part Name	Description	Part No.	Qty.



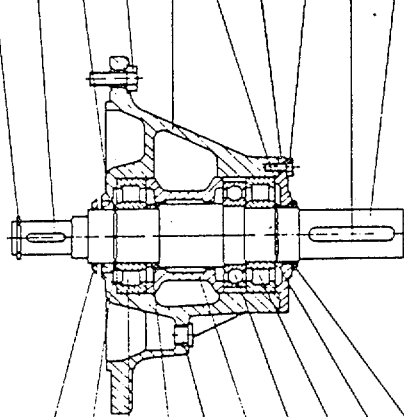
## Input Cover

### Input Cover with Motor Platform

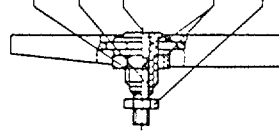
For Mounting to Gear Reducers Size 130

<b>PARTS LIST</b>
<b>01 317 04 C</b>

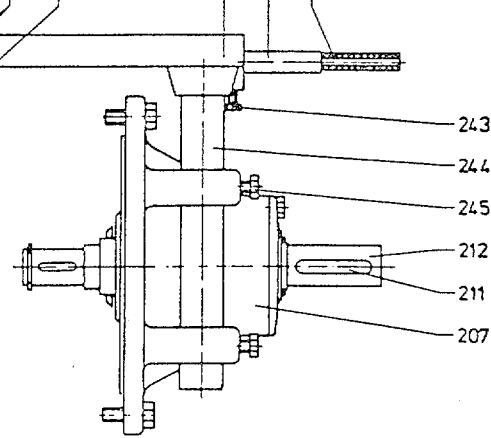
201 202 203 204 207 216 209 210 211 212



232 233 239 234 240



235 241 242



Assembly: 224 222 223 221 220 219 218 217 214 213

- ① Input Cover
- ② Input Cover with Motor Platform
- ④ R Type Gear Units Only
- ⑤ RU Varidisc Units Only

When ordering parts, please supply nameplate data with serial number or S.O. number, model number, description of part and part number.

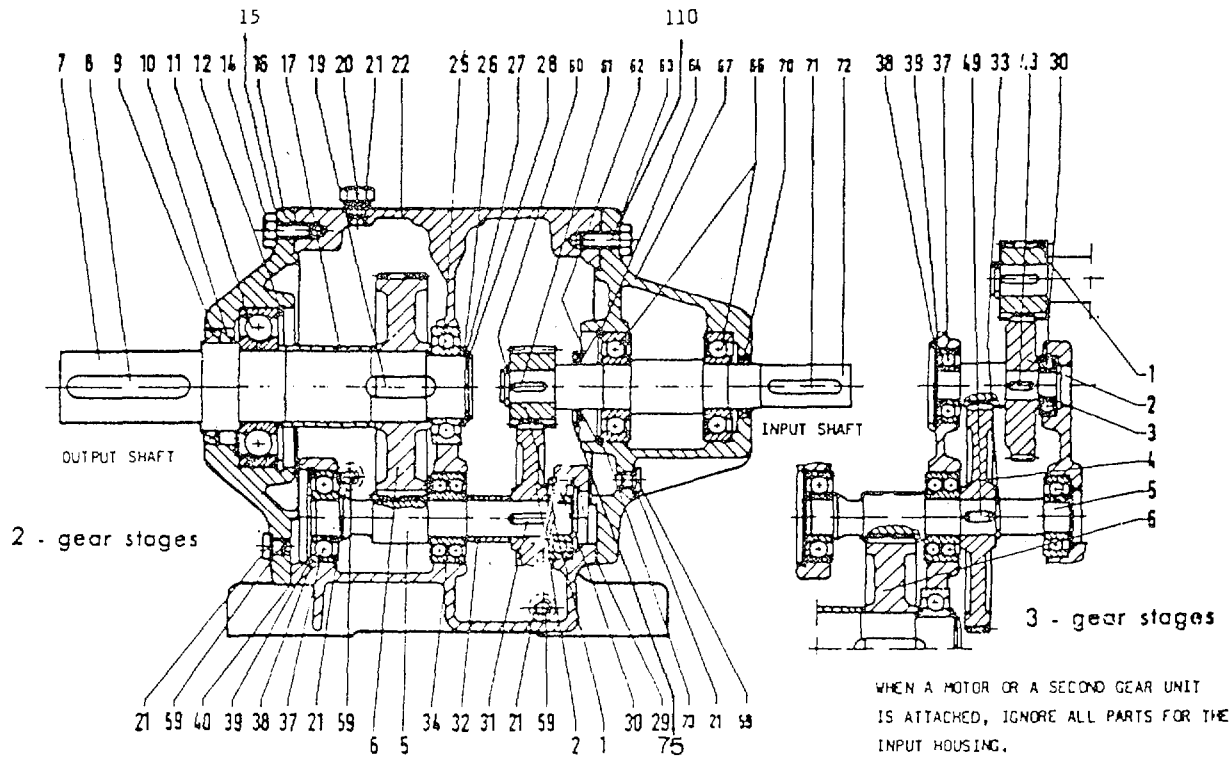
X = as required

Item	Part Name	Description	Part No.	Qty.
220	Drain Plug	M22x1.5mm	011 431 6	1
219	Spacer		113 190 7	1
218	Ball Bearing	6213	011 721 8	1
217	Roller Bearing	NU312	011 310 7	1
216	Shim	110x130x0.3mm	010 408 6	X
216	Shim	110x130x0.1mm	010 384 5	X
214	Snapring	60x2mm	010 292 X	1
213	Face Seal	60mm	011 900 8	1
212	Input Shaft-38mm Pinion	2.125 in. Dia.	108 475 5	1
212	Input Shaft-32mm Pinion	2.125 in. Dia.	108 474 7	1
212	Input Shaft-28mm Pinion	2.125 in. Dia.	108 473 9	1
212	Input Shaft-22mm Pinion	2.125 in. Dia.	113 135 4	1
211	Key	1/2x1/2x3 in.		1
210	Hex Head Screw	M10x25mm	010 116 8	4
209	Bearing Cap		107 397 4	1
207	Input Cover ③		106 532 7	1
207	Input Cover ①	Type Z	036 367 7	1
207	Input Cover ②		113 186 9	1
204	Hex Head Screw	M16x45mm	011 024 8	4
203	Oil Seal	A60x80x8mm	010 634 8	1
202	Key 38mm Pinion	A10x8x32mm	010 026 9	1
202	Key 32mm Pinion	A8x7x32mm	010 020 X	1
202	Key 28mm Pinion	A6x6x28mm	010 014 5	1
202	Key 22mm Pinion	A5x5x25mm	010 000 0	1
201	Snapring 38mm Pinion	38x1.75mm	010 282 2	1
201	Snapring 32mm Pinion	32x1.5mm	010 278 4	1
201	Snapring 28mm Pinion	28x1.5mm	010 276 8	1
201	Snapring 22mm Pinion	22x1.2mm	010 272 5	1

Item	Part Name	Description	Part No.	Qty.
245	Hex Head Screw ③	M16x40mm	010 127 3	4
244	Column ③	Only for DT225	104 935 6	2
244	Column ④		104 532 6	2
243	Hex Head Screw ③ ⑤	M8x16mm	010 110 9	2
242	Hose ③ ⑤	RU6	106 454 1	1
242	Hose ④ ⑤	RU5	104 605 5	1
241	Holding Rod ③ ⑤	RU6	106 453 3	1
241	Holding Rod ④ ⑤	RU5	104 249 1	1
240	Hex Nut ③ ④	M24mm	011 514 2	1
239	Threaded Bushing ③ ④		104 534 2	1
236	Motor Mounting Plate ③	Undrilled for DT225	106 534 3	1
236	Motor Mounting Plate ③	Undrilled for DT180-200	104 785 X	1
236	Motor Mounting Plate ③	Undrilled for DT132-160	104 784 1	1
236	Motor Mounting Plate ③	Drilled for DT225	104 926 7	1
236	Motor Mounting Plate ③	Drilled for DT200	104 558 X	1
236	Motor Mounting Plate ③	Drilled for DT180	104 556 3	1
236	Motor Mounting Plate ③	Drilled for DT132ML-160	104 549 0	1
236	Motor Mounting Plate ③	Drilled for DT132S/M	104 547 4	1
234	Washer ③ ④	B37mm	010 245 8	2
233	Stud ③ ④	M24x100mm	010 785 9	1
232	Hex Nut ③ ④	M36x1.5mm	010 219 9	1
224	Oil Slinger	60mm	011 668 8	1
223	Roller Bearing	NU312	011 310 7	1
222	Snapring	60x2mm	010 292 X	1
221	Spacer		113 192 3	1

## Parallel (Helical) Reducer R60

PARTS LIST #  
C 2005



ITEM	PART NAME	DIMENSIONS	PART NO.	QTY	PRICE
33	SNAPRING	17x1mm	011 460	x 1	
32	SPACER		101 204	5 1	
31	KEY	85x5x16mm	011 484	7 1	
30*	BALL BEARING	6301	010 505	8 2	
29*	GASKET		101 211	8 1	
28	SNAPRING	25x1.2mm	010 274	1 1	
27	SHIM	25x35x0.3mm	010 393	4 X	
27	SHIM	25x35x0.1mm	010 369	1 X	
26	SPACER	S25X35X2mm	010 345	4 1	
25*	BALL BEARING	6205	010 488	4 1	
22	GEAR CASE		101 190	1 1	
20	BREATHER PLUG	M10X1mm	010 466	3 1	
19	KEY	B8x7x28mm	011 486	3 1	
17	SPACER		101 203	7 1	
16	GEAR CASE COVER		101 194	4 1	
15	LOCKWASHER	B10mm	010 992	4 4	
14	HEX. HEAD BOLT	M10X25mm	010 116	8 4	
12	SNAPRING	62x2mm	010 321	7 1	
11*	BALL BEARING	6206Z	010 496	5 1	
10*	OIL SEAL	A35x47x7mm	010 622	4 1	
9*	OIL SEAL	35x47x7mm	010 656	9 1	
8	KEY	1/4x1/4x1 11/16 in.		1 1	
7	OUTPUT SHAFT	1.250 in. Dia	107 642	6 1	
6	GEAR			1 1	
5	INPUT SHAFT			1 1	
4	GEAR			1 1	
3	PINION SHAFT			1 1	
2	GEAR			1 1	
1	PINION			1 1	

\*RECOMMENDED SPARE PARTS

ITEM	PART NAME	DIMENSIONS	PART NO.	QTY	PRICE
110	LOCKWASHER	B8mm	010 991	6 4	
75	OIL SLINGER	20x35mm	010 661	0 1	
73	SHIM	42x52x0.3mm	010 399	3 X	
73	SHIM	42x52x0.1mm	010 375	6 X	
72	INPUT SHAFT	16mm SH.	107 700	7 1	
72	INPUT SHAFT	14mm SH.	107 699	X 1	
72	INPUT SHAFT	12mm SH.	107 698	1 1	
72	INPUT SHAFT	10mm SH.			
71	KEY	3/16x3/16x1 1/4 in.	010 867	2 1	
70*	OIL SEAL	A520X35X7mm	010 652	6 1	
67	INPUT HOUSING		101 247	9 1	
65*	BALL BEARING	6304-2Z	010 531	7 2	
64	SNAPRING	52x2mm	010 319	5 1	
63	HEX. HEAD BOLT	M8x20mm	011 025	6 4	
62*	OIL SEAL	A20x57x10mm	011 315	8 1	
61	KEY 16mm SH.	A4x4x19mm	011 438	3 1	
61	KEY 14.12mm SH.	A3x3x19mm	010 069	2 1	
61	KEY 10mm SH.	A2x2x12mm	010 000	5 1	
60	SNAPRING 15mm SH.	16x1mm	010 269	7 1	
60	SNAPRING 14mm SH.	14x1mm	010 266	0 1	
60	SNAPRING 12mm SH.	SW11x1mm	011 520	7 1	
60	SNAPRING 10mm SH.	SW10x1mm	011 519	3 1	
59	DRAIN PLUG	M10X1mm	011 426	X 4	
49	KEY	B5x5x14mm	010 051	X 1	
43	KEY	B5x5x12mm	010 050	1 1	
40*	GASKET		101 212	6 1	
39	SNAPRING	42x1.75mm	010 317	9 2	
38	SHIM	30x42x0.3mm	010 409	4 X	
38	SHIM	30x42x0.1mm	010 385	3 X	
37*	BALL BEARING	6302	010 506	6 2	
34*	BALL BEARING	4203	010 551	1 1	

**SECTION C17**

This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
09N810	Sanborn Manufacturing Co. 103000 Valley View Road, Suite 101 Eden Prairie, Minn 55344	(800) 448-0512	(507) 723-4772

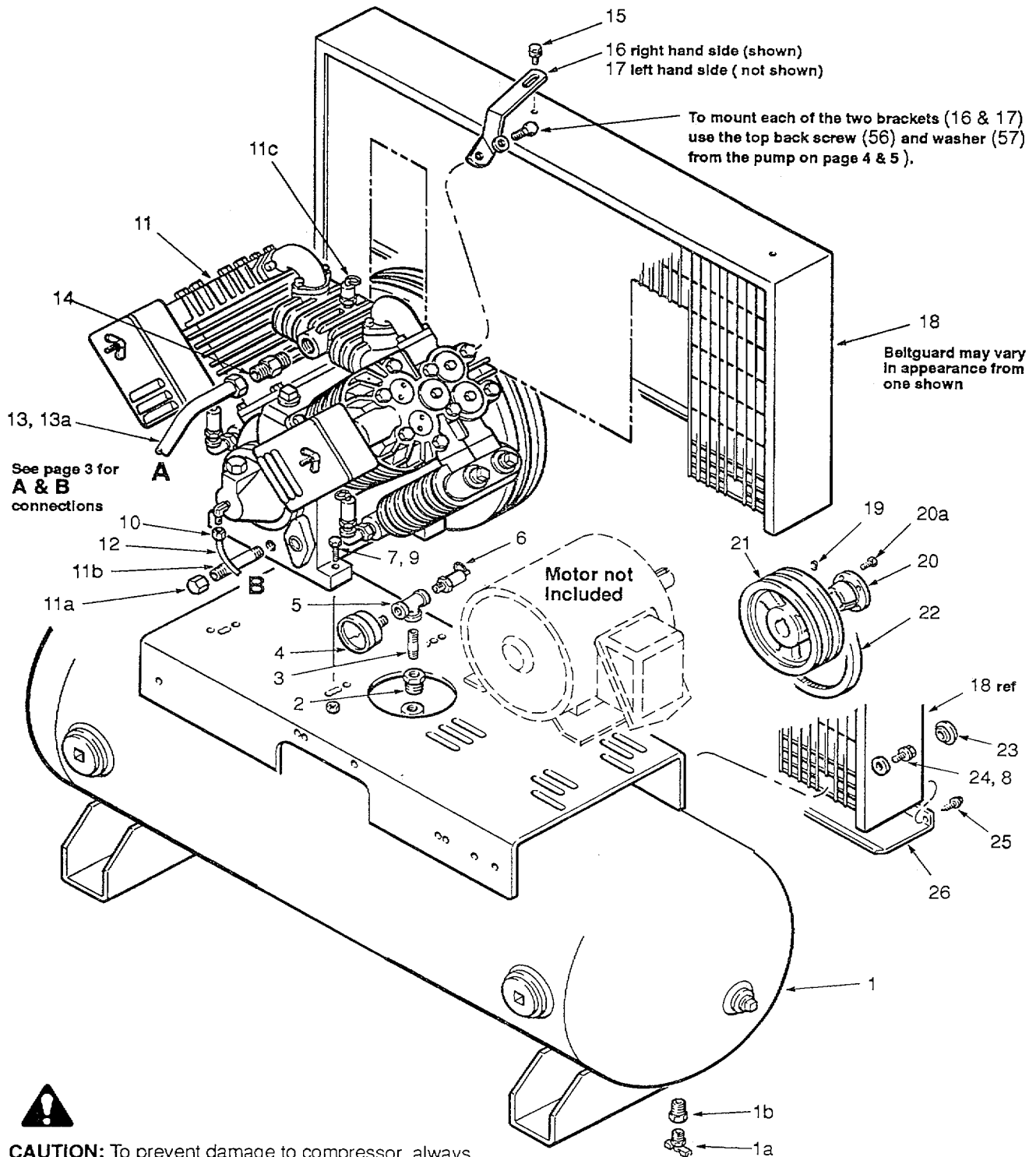
**Description of Components:** Surge Bin Air Compressor

**Components:**

**Model** C10280H



PARTS DRAWING

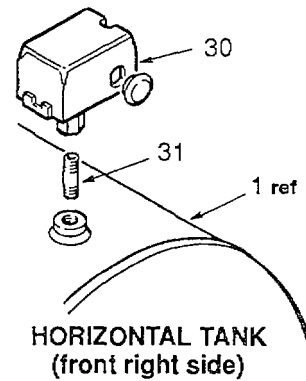
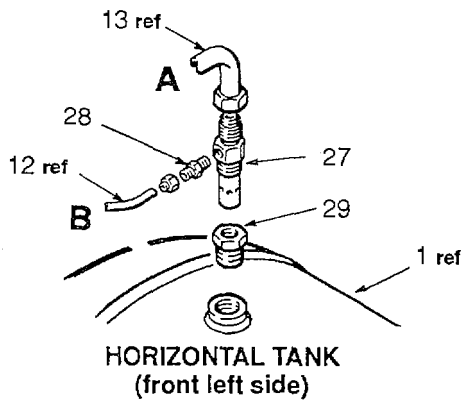


**CAUTION:** To prevent damage to compressor, always shim tank so the pump is level within 1/8" per lineal foot MAX to distribute oil properly. Fasten to floor and NEVER force tank feet to floor without shims when tightening.

**PARTS LIST & DRAWING**

**(Motor and Magnetic Starter required)**

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
	1515-0335	TANK ASSY, 80 gal horiz. ASME includes items 1 a & 1bor		14	068-0504	CONNECTOR, male 3/4" NPT x 3/4" O.D. tube	1
	515-0336	TANK ASSY, 120 gal horiz. ASME includes items 1 a & 1 b	1	15	059-0012	BOLT, lock 5/16"-18 x 1/2" lg	2
1a	072-0001	PETCOCK, 1/4" NPT	1	16	114-0188	BRACKET, belt guard, 450 bend right hand (shown)1	
1b	063-0001	BUSHING17114-0189 1/2" NPT x 1/4" NPT1				BRACKET, belt guard, 450 bend left hand (not shown)	1
	2063-0019	.BUSHING 1" NPT x 1/4" NPT	1	18	142-0085	BELTGUARD	1
3	065-0031	NIPPLE, 1/4" NPT x 2.5" lg	1	19	061-0009	SETSCREW, 5/16"-18 x 1/4" lg	1
4	032-0024	GAUGE, 300 PSI	1	20	004-0002	HUB, includes item 20a	1
5	069-0004	TEE, 1/4" NPT	1	20a	NA	.SCREW, 1/4" x 3/4" lg	2
6	136-0007	VALVE, relief, ASME, 200 PSI	1	21	006-0031	PULLEY	1
7	059-0061	SCREW, 7/16"-14 x 2" 19g	4	22	008-0059	V- BELT, B80	2
8	060-0023	WASHER, flat	4	23	093-0005	PLUG, button	4
9	058-0011	NUT, 7/16"-14	4	24	059-0164	SCREW, 3/8"-16 x 3/4" lg	4
10	058'0017	COMP. NUT & SLEEVE	1	25	061-0005	SCREW, #10 x 3/4" lg	4
11	040-0212	PUMP ASSY less flywheel includes 11a, 11b & 11c see pages 4 & 5 for parts	1	26	125-0120	UNDERPAN	1
11a	062-0101	.CAP, pipe, 3/8"NPT	1	27	031-0059	CHECK VALVE, Flared	1
11b	065-0040	.NIPPLE, 3/8" NPT x 4" lg	1	28	068-0002	CONNECTOR, male 1/8" NPT x 1/4" O.D. tube	1
11c	136-0032	VALVE, relief, 250 Psi	1	29	063-0011	BUSHING 1" NPT x 3/4" NPT	1
12	145-0212	TUBE, 1/4"O.O.D. B-B	1	30	034-0056	SWITCH, pressure	1
13	145-0246	TUBE, transfer (80 gal horiz.) 3/4" O.D. flared copper A-A or 145-0239TUBE, transfer (120 gal horiz.) 3/4" O.D. flared copper A-A	1	31	065-0005	NIPPLE, 1/4"NPTx2"lg	1
13a	068-0505	.NUT, flared, 3/4"	2				



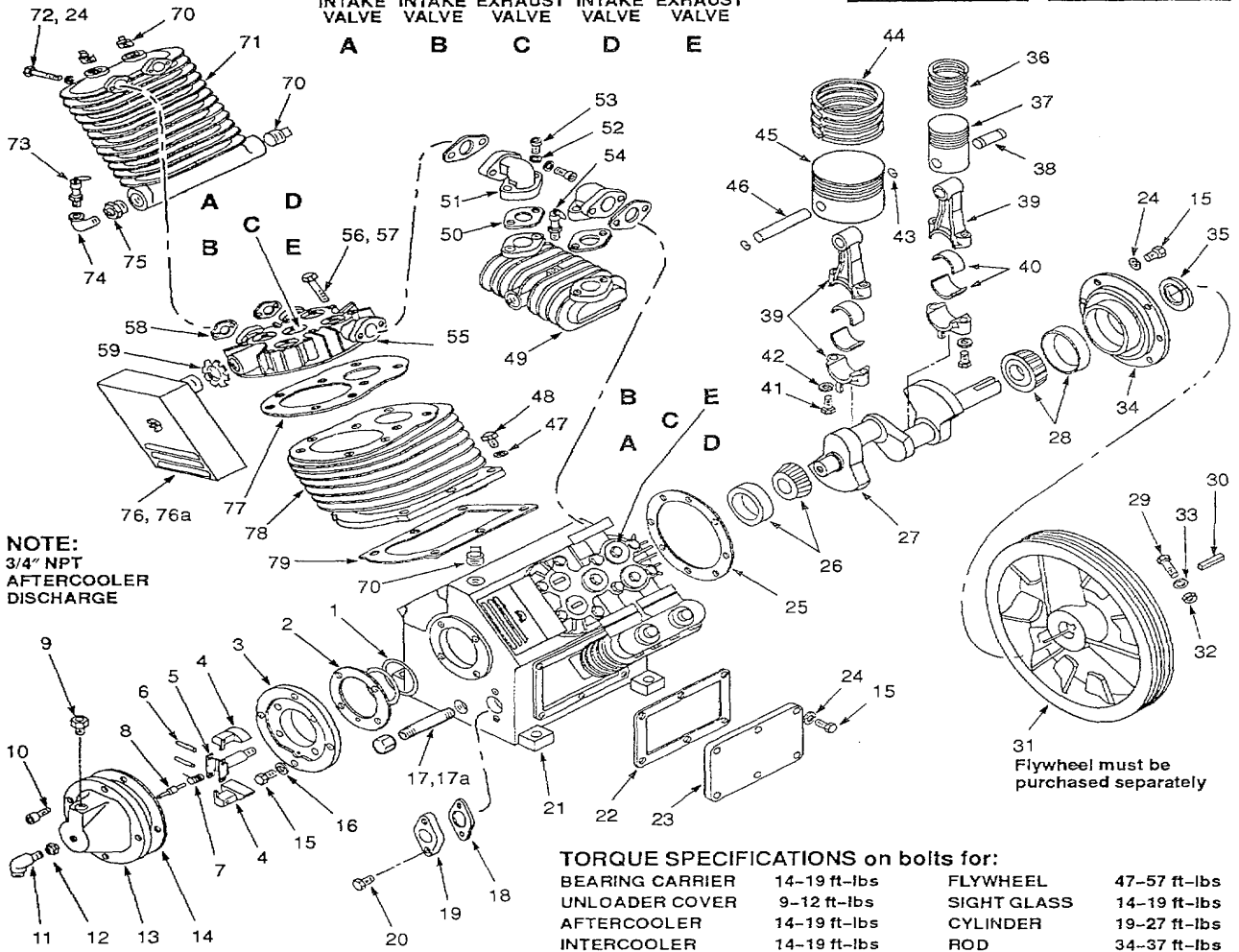
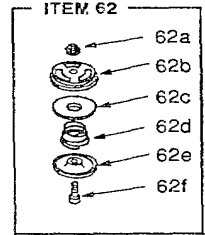
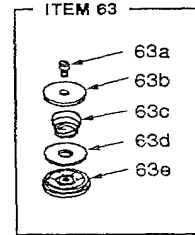
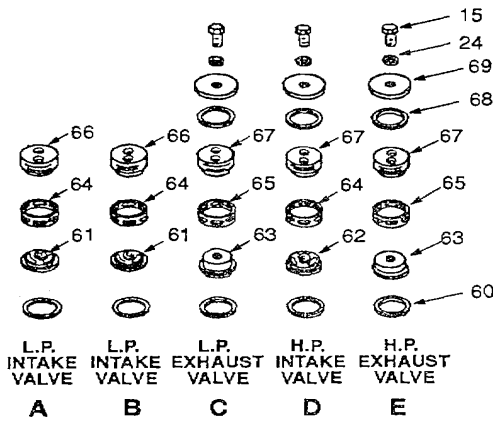
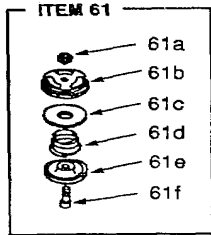
200-2053 3

# PARTS DRAWING

**SC46 PUMP 040-0212**  
less flywheel item 31

## PUMP SPECIFICATIONS

WEIGHT - 312 LBS  
MAX RPM - 800  
OIL CAPACITY - 65 OZ.  
OIL GRADE - Low carbon compressor oil  
PGS III (018-0053SP) or SLC1 (018-0051SP)



**NOTE:**  
3/4" NPT  
AFTERCOOLER  
DISCHARGE

31  
Flywheel must be  
purchased separately

### TORQUE SPECIFICATIONS on bolts for:

BEARING CARRIER	14-19 ft-lbs	FLYWHEEL	47-57 ft-lbs
UNLOADER COVER	9-12 ft-lbs	SIGHT GLASS	14-19 ft-lbs
AFTERCOOLER	14-19 ft-lbs	CYLINDER	19-27 ft-lbs
INTERCOOLER	14-19 ft-lbs	ROD	34-37 ft-lbs
VALVE RETAINERS	51-57 ft-lbs	HEAD	32-37 ft-lbs
VALVE COVER	14-19 ft-lbs	VALVE	9-12 ft-lbs
SIDE COVER	14-19 ft-lbs		

**PARTS LIST**

**SC46 PUMP 040-0212 less flywheel**

includes items 1-30, 32-79 on pages 4 & 5

**FLYWHEEL 044-005157**

item 31 ( must be purchased separately)

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	046-0175	SHIM, bearing adj., .005 thick	and/or	56	059-0167	BOLT, head, M12 x 70mm lg	16
	046-0176	SHIM, bearing adj., .010 thick	and/or		060-0105	WASHER, M12	16
	046-0177	SHIM, bearing adj., .020 thick	A/R	58	046-0173	GASKET, intercooler	4
2	046-0227	GASKET, adapter plate	1	59	058-0087	NUT, conduit, 1"2	
3	077-0070	PLATE, adapter, centrifugal unloader	1	60	060-0062	WASHER, copper, 1.62"O.D. x 1.368' . D.10	
4	096-0009	WEIGHT	2	61	043-0098	INTAKE VALVE ASSY, low pressure includes items 61a-61f	4
5	114-0112	HOLDER, weight	1	61a	--	.NUT, self-locking, hex jam	1
6	107-0015	PIN	2	61b	--	.SEAT, valve	1
7	055-0051	SPRING	1	61c	--	.PLATE, valve	1
8	078-0011	PLUNGER	1	61d	--	.SPRING, valve	1
9	056-0018	BREATHER, crankcase	1	61e	--	.GUIDE, valve	1
10	059-0156	BOLT, M6 x 20 mm lg.	4	61f	--	.BOLT, M6 x 20mm lg	1
11	031-0057	VALVE, air. w/valve core	1	62	043-0099	INTAKE VALVE ASSY, high pressure includes items 62a-62f	2
12	05S-0064	NUT, brass, 1, 10	1	62a	--	.NUT, self-locking, hex jam	1
13	077-0071	HOUSING, centrifugal unloader	1	62b	--	.SEAT, valve	1
14	046-0171	GASKET	1	62c	--	.PLATE, valve	1
15	059-0166	BOLT, M8 x 20mm lg.	21	62d	--	.SPRING, valve	1
16	060-0070	WASHER, lock, 8mm	4	62e	--	GUIDE, valve	1
17	065-0040	NIPPLE, 3/8" NPT x 4" lg	1	62f	--	.BOLT, M6 x 20mm lg	1
17a	062-0101	CAP, pipe, 3/8" NPT	1	63	043-0100	EXHAUST VALVE ASSY, high & low includes items 63a-63e	4
18	046-0178	GASKET, sight glass flange	1	63a	--	.BOLT, M6 x 12mm lg	1
19	032-0031	FLANGE, w/sight glass	1	63b	--	.GUIDE, valve	1
20	059-0153	BOLT, M8 x 30 mm lg.	2	63c	--	SPRING, valve	1
21	049-0028	CRANKCASE	1	63d	--	.PLATE, valve	1
22	046-0170	GASKET, side cover	1	63e	--	.SEAT, valve	1
23	077-0072	COVER, side	1	64	043-0094	SPACER, intake valve	6
24	060-0061	WASHER, copper .52" O.D. x .32" I.D.	14	65	043-0095	SPACER, exhaust valve	4
25	046-0168	GASKET, front cover	1	66	058-0082	RETAINER, valve, low pressure	4
26	051-0054	BEARING SET, rear	1	67	058-0083	RETAINER, valve low pressure exhaust or high pressure intake and exhaust	6
27	053-0052	CRANKSHAFT	1	68	046-0174	GASKET, valve cover	6
28	051-0053	BEARING SET, front	1	69	077-0073	COVER, valve	6
29	059-0163	BOLT, M16 x 80mm lg	1	70	062-0006	PLUG, pipe, 3/4" NPT	7
30	146-0015	KEY, flywheel	1	71	082-0012	INTERCOOLER	2
31	044-0051	FLYWHEEL, 19" O.D. must be purchased separately	73	72	059-0157	BOLT, M8 x 90mm lg	8
32	058-0086	NUT, M16	1	74	136-0039	VALVE, pressure relief, 70 PSI	2
33	060-0069	WASHER, lock, 16mm	1	75	064-0022	ELBOW, 900 street, 1/4"	2
34	045-0044	BEARING CARRIER, front	1	76	063-0006	BUSHING, reducer	2
35	046-0179	SEAL, shaft	1	76a	019-0097	FILTER CANNISTER ASSY includes item 76a	2
36	054-0127	RING SET, high pressure	2	77	019-0023	.ELEMENT, filter replacement	2
37	048-0055	PISTON, high pressure	2	78	046-0166	GASKET, cylinder head	2
38	052-0028	PIN, wrist, high pressure	2	79	050-0030	CYLINDER	2
39	047-0054	ROD, connecting	4		046-0167	GASKET, cylinder/crankcase	2
40	051-0055	INSERT, bearing4 pair					
41	059-0154	BOLT, rod, M10 x 45mm lg	8				
42	060-0072	WASHER, lock 10mm	8				
43	054-0119	RING, retaining	4				
44	054-0126	RING SET, low pressure	2				
45	048-0054	PISTON, low pressure	2				
46	052-0027	PIN, wrist, low pressure	2				
47	060-0063	WASHER, copper, .66 OD x .39 ID	12				
48	059-0159	BOLT, cylinder M10 x 30mm lg	12				
49	082-0013	AFTERCOOLER	1				
50	046-0172	GASKET, manifold, aftercooler	4				
51	083-0008	ELBOW, manifold, aftercooler	2				
52	060-0070	WASHER, lock, 8mm	8				
53	059-0158	BOLT, manifold, M8 x 25mm lg	8				
54	136-0032	VALVE, pressure relief, 250 PSI	1				
55	042-0055	HEAD, cylinder	1				

**AVAILABLE SERVICE KITS**

PART NO	DESCRIPTION
046-0185	GASKETS, complete set includes items 2, 14, 18, 22, 25, 47, 50, 57, 58, 68, 79, washers 24 and 60
046-0186	GASKETS, valve set includes items 60, 68 and six washers item 24
070-0020	CENTRIFUGAL UNLOADER ASSY includes items 4-8
165-0065	OVERHAUL KIT, includes complete gasket set, filter element and items 35, 36, 40 and 44

**RING SETS**

**IMPORTANT:**

Assemble each RING SET in Ref. No. and alphabetical sequence.

**NOTE:** When Ref. No.'s and/or alphabet are the same, assemble the bottom one first.

To ensure proper operation follow respective notes accordingly.

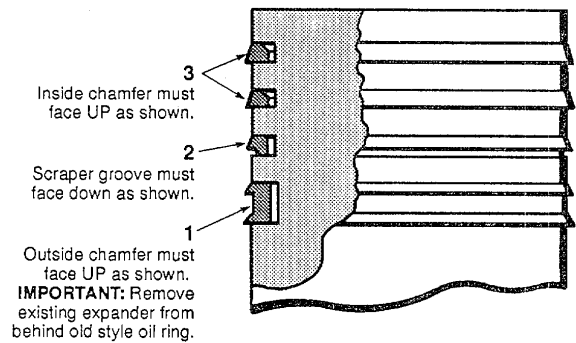
To prevent ring breakage, a standard automotive ring expander should be used for assembly.

Item 34 from pages 4 & 5

054-0178 RING SET for High Pressure Piston to be used on SC23 or SC46 compressor pumps.

Includes items 1-3

REF NO	PART NO	QTY
1	Ring, oil control	1
2	Ring, compression w/scraper groove	1
3	Ring, compression	2

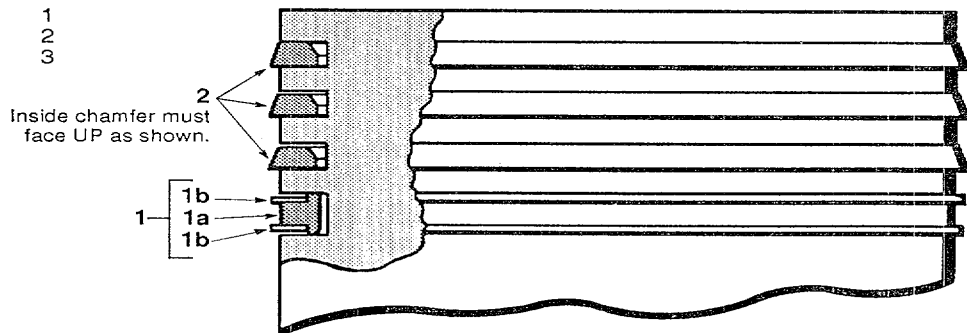


Item 42 from pages 4 & 5

**054-01 79 RING SET** for Low Pressure Piston to be used on SC23 or SC46 compressor pumps.

Includes items 1-2

REF NO	PART NO	QTY
1	Ring, oil control includes items 1a & 1b	1
1a	Expander	1
1b	Rails	2
2	Ring, compression	3



**TWO YEAR LIMITED WARRANTY**

Sanborn Manufacturing (the Company) warrants, that for a period of twenty-four (24) months from the date of purchase, it will replace or repair, free of charge, for the original retail purchaser only, any part or parts, manufactured by the Company, found upon examination by the Company at Springfield Minnesota, to be defective in material or workmanship or both. All transportation charges for parts submitted for replacement or repair under this warranty must be borne by the original retail purchaser. This is the exclusive remedy under this warranty.

Failure by the original retail purchaser to install, maintain and operate said equipment in accordance with good industry practices and failure to comply with the specific recommendations of the Company set forth in the owner's manual, shall render this warranty null and void. The Company shall not be liable for any repairs, replacements, or adjustments to the equipment or any costs for labor performed by the purchaser without the Company's prior written approval. The effects of corrosion, erosion and normal wear and tear are specifically excluded from this warranty.

THE COMPANY MAKES NO OTHER WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE. ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES UNDER ANY AND ALL WARRANTIES, OTHER THAN CONTRACT, NEGLIGENCE, OTHER TORTS, OR OTHERWISE ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW.

Notwithstanding the above, any legal claim against the Company shall be barred if legal action thereon is not commenced within twenty-four (24) months from the date of purchase or delivery whichever occurs last. This warranty constitutes the entire agreement between the Company and the original retail purchaser and no representative or agent is authorized to alter the terms of same without expressed written consent of the Company.

**SANBORN MANUFACTURING COMPANY**  
**118 West Rock Street**  
**P. O. Box 206**  
**Springfield, Minnesota 56087**

**PARTS AND SERVICE**

If there is a need for replacement parts and service, contact your nearest Service Center (see the enclosed service center listing). Parts are also available from your air compressor distributor.

When consulting the service center, the distributor or the factory concerning replacement parts, service or compressor information: refer to your manual number and always furnish complete unit model and serial numbers. This information can be found on the serial tag which is located on the hardware mounting plate on top of the tank. Record these numbers, along with the date purchased, in the spaces provided below and retain this manual for future reference.

When needing service from the factory, mail to:

**Compressor Service**  
**118 West Rock Street**  
**P. O. Box 206**  
**Springfield MN 56087**

or call:

**CUSTOMER SERVICE HOURS:**

**Monday thru Friday**

**7:00 a.m. to 5:30 p.m. Central Standard Time**

**In U.S.A. or Canada**

**Toll-Free - 800-544-5145**

**Fax- 507-723-5013**

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

Date Purchased \_\_\_\_\_

**SECTION C18**

This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
OSMG6	Panasonic Communications Computer Products Division Two Panasonic Way Secaucus, New Jersey 07094		

**Description of Components:** Dot Matrix Printer

**Components:**

**Model** KX- P 1180i

**There are no component parts required. Refer to the Maintenance Manual additional information.**

**SECTION C19**

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
30760	Ingersoll Rand 200 Chestnut Ridge Road P.O. Box 636 Woodcliff Lake, NJ 07675-7703	(800) 533-5154	

**Description of Components:**

Baghouse Air Compressor

**Components:**

**Model**

Type 30



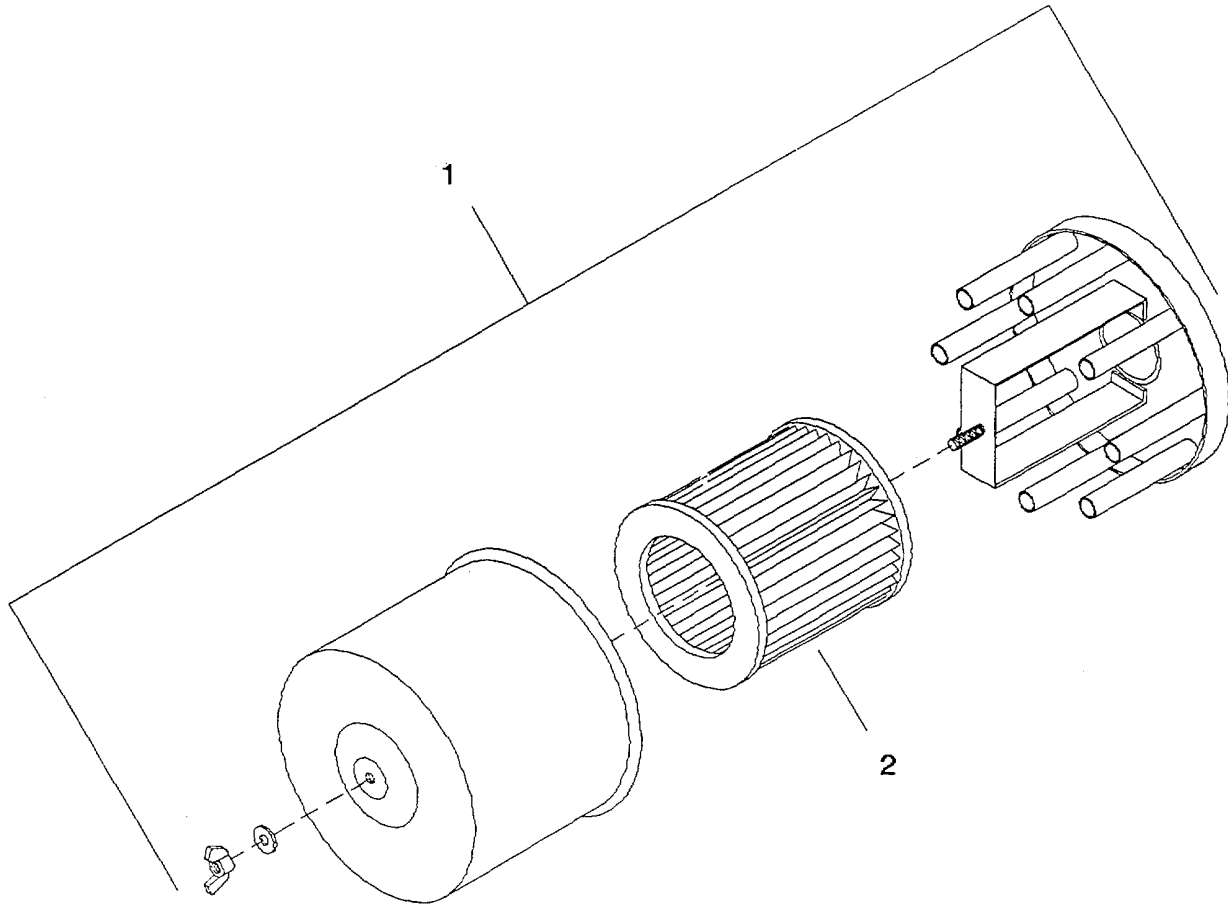


FIGURE 1. INLET FILTER/SILENCER ASSEMBLY

REF. NMB.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	REC. SPARES		
				1	2	3
1-1	32109779	FILTER/SILENCER COMPLETE - INLET	1			
1-2	32012957	*ELEMENT, FILTER - 10 MICRON (REPLACEMENT)	1	1	1	1
		IF FILTER REPLACEMENT IS DESIRED, WE RECOMMEND AN ECONOMICAL FILTER KIT. SEE PAGE 14.				

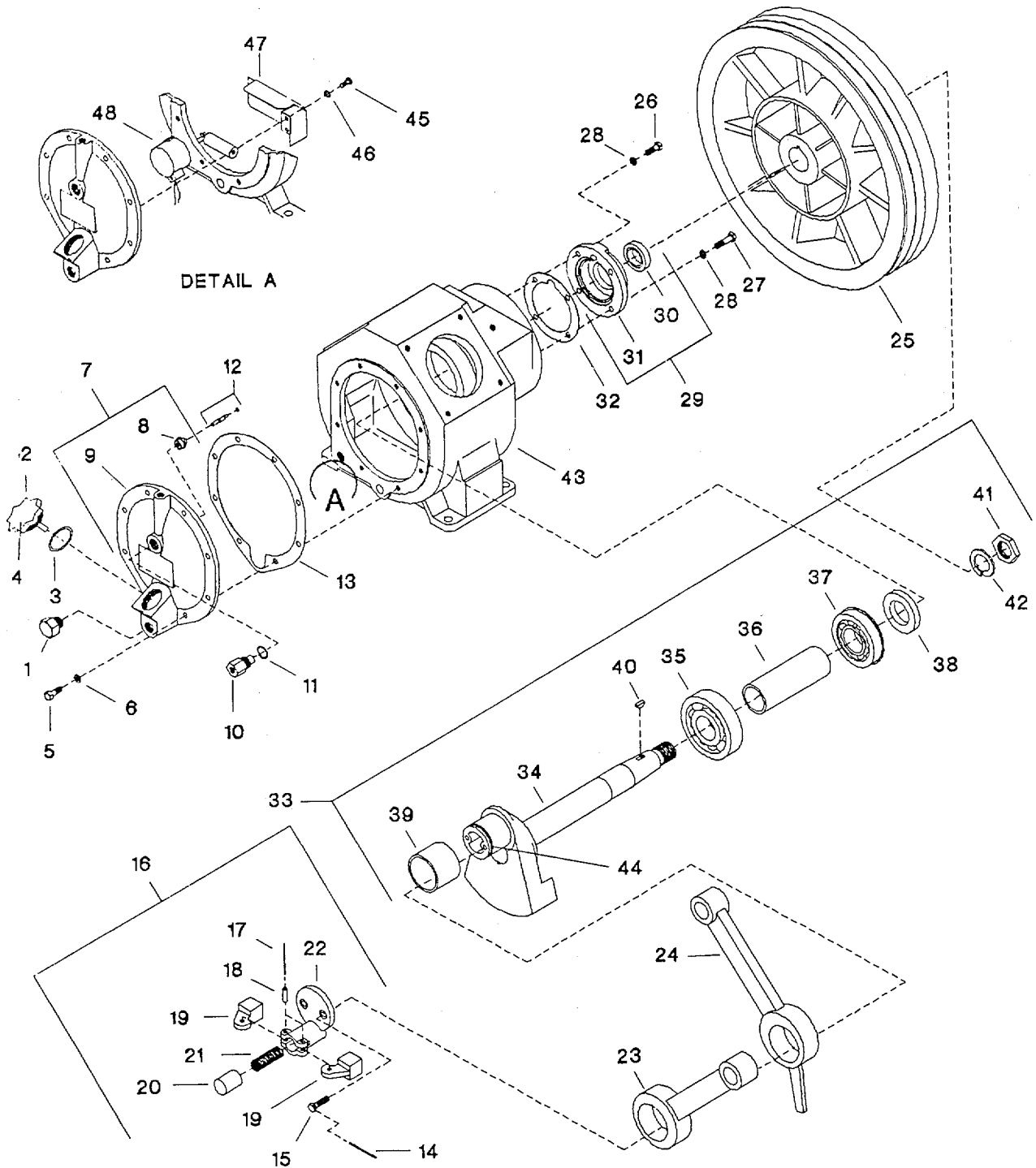
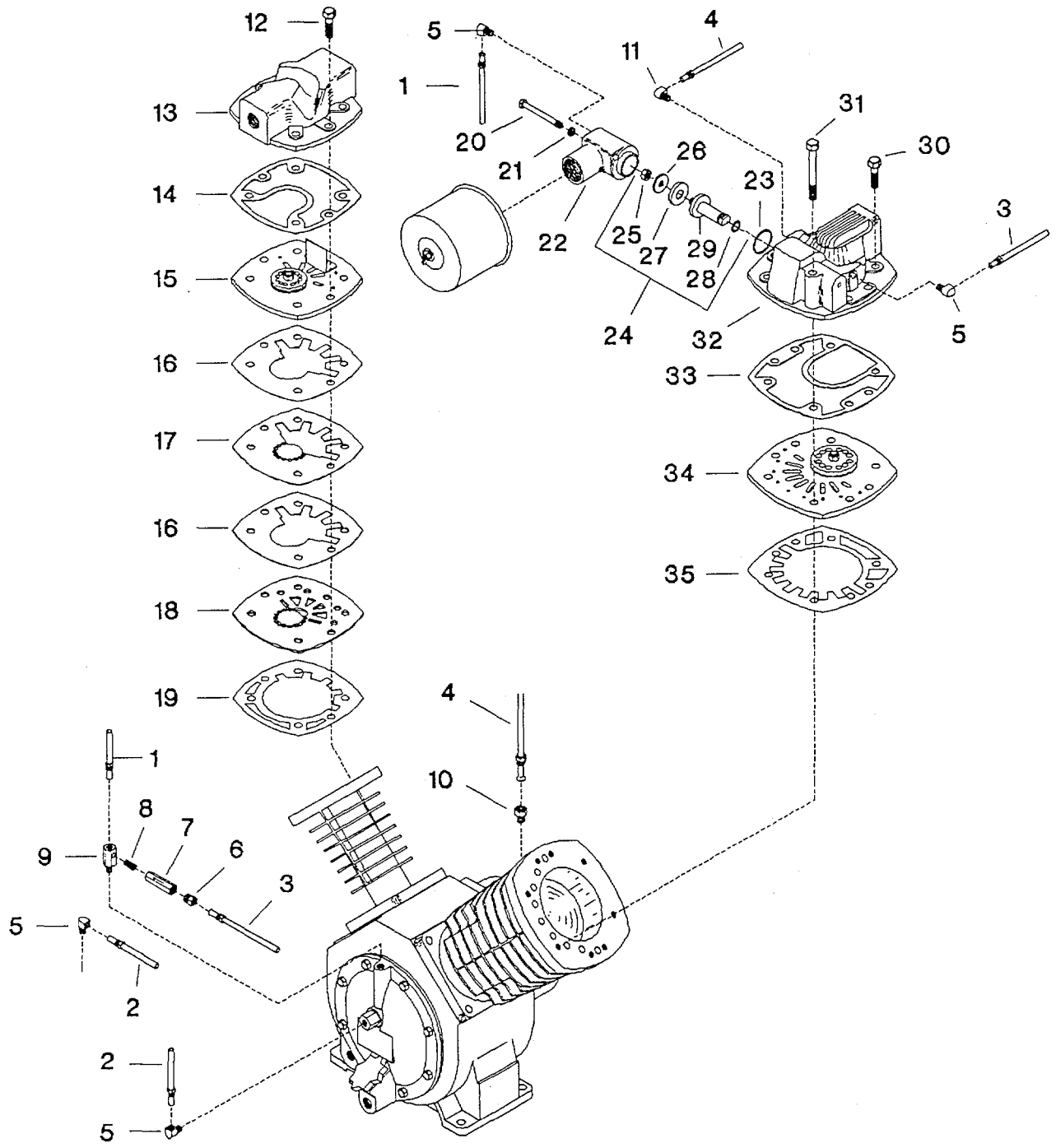


FIGURE 2. COMPRESSOR FRAME ASSEMBLY  
page C19 - 3

REF. NMB.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	REC. SPARES		
				1	2	3
2-1	95344651	PLUG, PIPE - HEX HEAD 1/2'	1			
2-2	32195083	PLUG, OIL GAUGE - COMPLETE	1			
2-3	95022158	O-RING	1	1	1	2
2-4	32000655	DECAL, HAND TIGHT ONLY	1			
2-5	95053146	CAPSCREW - HEX 3/8-16 x 7/8'	8			
2-6	95674677	GASKET, COPPER WASHER - 3/8'	8			
2-7	31246572	COVER ASSEMBLY, FRAME END	1			
2-8	37128261	*BUSHING, PILOT VALVE	1			
2-9	NSS	*COVER, FRAME END	1			
2-10	37113701	VALVE, PILOT	1		1	1
2-11	30346597	WASHER, COPPER	1			
2-12	32218406	PIN ASSEMBLY, THRUST	1	1	1	2
2-13	30439277	GASKET, FRAME END COVER	1	1	1	2
2-14	90799289	LOCKWIRE, 12 GA x 5'	1			
2-15	95101929	CAPSCREW- HEX	2			
2-16	30290936	CAP ASSEMBLY, CRANKPIN-CENTRIFUGAL UNLOADER	1			
2-17	90799271	*LOCKWIRE, 12 GA x 5'	1			
2-18	30214951	*PIN, CENTRIFUGAL UNLOADER WEIGHT	2			
2-19	30220875	*WEIGHT, CENTRIFUGAL UNLOADER	2			
2-20	30285688	*PLUNGER, CENTRIFUGAL UNLOADER	1			
2-21	30672281	*SPRING, CENTRIFUGAL UNLOADER	1			1
2-22	30210322	*BODY, CRANKPIN CAP	1			
2-23	32003659	ROD, CONNECTING - 1ST STAGE	1		1	1
2-24	30217327	ROD, CONNECTING - 2ND STAGE	1		1	1
2-25	32177206	WHEEL, V-BELT	1			
2-26	95053146	CAPSCREW - HEX 3/8-16 x 7/8'	2			
2-27	95043766	CAPSCREW- HEX 3/8-16 x 1-1/4"	2			
2-28	95674677	GASKET, COPPER WASHER - 3/8"	4			
2-29	32175333	COVER ASSEMBLY, SHAFT END	1			
2-30	NSS*	COVER, SHAFT END	1			
2-31	32204588	o SEAL, OIL	1		1	2
2-32	30295166	GASKET, SHAFT END COVER	1	1	1	2
2-33	30211627	CRANKSHAFT - COMPLETE	1			
2-34	NSS	*DISC AND SHAFT ASSEMBLY	1			
2-35	95305652	*BEARING, BALL	1			
2-36	30218432	*SPACER, MAIN BEARING	1			
2-37	95213971	*BEARING, BALL - WITH SNAP RING	1			
2-38	30216808	RING, BEARING RETAINER	1			
2-39	37002375	*BUSHING, CRANKPIN	1			
2-40	95047437	*KEY, WOODRUFF	1			
2-41	30835698	*NUT, V-BELT WHEEL	1			
2-42	95064747	*LOCKWASHER, SPRING 1-1/8"	1			
2-43	32183733	FRAME, COMPRESSOR	1			
2-44	32185803	LOCTITE 609-TUBE-USED IN ASSEMBLY OF CRANKPIN BUSHING	.5 ML			
<b>DETAIL A</b>						
2-45	95053070	CAPSCREW- HEX 1/4-20 x 1/2'	2			
2-46	95043196	LOCKWASHER, SPRING - 1/4'	2			
2-47	30285548	BAFFLE, LOW OIL LEVEL SWITCH	1			
2-48	32201527	SWITCH, LOW OIL LEVEL - NEMA 1	1			
IF BEARING AND CONNECTING ROD REPLACEMENT IS DESIRED, WE RECOMMEND AN ECONOMICAL BEARING/CONNECTING ROD KIT. SEE PAGE 14.						
NOTE: IN THIS PARTS LIST, FIRST (1ST) STAGE MAY ALSO BE CALLED OUT AS LOW PRESSURE AND SECOND (2ND) STAGE MAY ALSO BE CALLED OUT AS HIGH PRESSURE.						

NSS - NOT SOLD SEPARATELY



6

FIGURE 3. MODEL 7100 BARE COMPRESSOR

REF. NMB.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	REC. SPARES		
				1	2	3
3-1	32203440	TUBE ASSY., FRAME END COVER/UNLOADER COVER-5/16" DIA.	1			
3-2	32183717	TUBE ASSY., PILOT VALVE/2ND STAGE MANIFOLD - 5/16" DIA.	1			
3-3	32200529	TUBE ASSEMBLY, CHECK VALVE/ 1ST STAGE AIRHEAD-5/16" DIA.	1			
3-4	32200560	TUBE ASSEMBLY, BREATHER - 3/8" DIA.	1			
3-5	95110441	ELBOW, TUBE- 5/16 x 1/4"	4			
3-6	95082483	CONNECTOR, TUBE - 5/16 x 1/8"	1			
3-7	32001141	VALVE, CHECK	1			
3-8	95796017	NIPPLE, CLOSE - 1/8 x 3/4"	1			
3-9	32203242	CONNECTOR, TUBE - 5/16 x1/4" MALE LONG	1			
3-10	95083143	CONNECTOR, MALE - 3/8 x 1/4"	1			
3-11	95040143	ELBOW, TUBE - 3/8 x 1/4"	1			
3-12	95104188	CAPSCREW- HEX 1/2-13 x 1-3/4"	6			
3-13	32172199	AIRHEAD - 2ND STAGE	1			
3-14	32172934	GASKET, AIRHEAD - 2ND STAGE	1	1	1	2
3-15	32228322	ASSEMBLY, VALVE PLATE - 2ND STAGE (SEE FIGURE 4.)	1			
3-16	32228298	GASKET, SPACER PLATE - 2ND STAGE	2	2	2	4
3-17	32228280	PLATE, SPACER - 2ND STAGE	1			
3-18	32228272	PLATE, DISC - 2ND STAGE	1			
3-19	32172959	GASKET, VALVE PLATE - 2ND STAGE	1	1	1	2
3-20	95035259	CAPSCREW - HEX 5/16-18 x 3-3/4"	2			
3-21	95043188	LOCKWASHER, SPRING - 5/16"	2			
3-22	32174336	COVER, UNLOADER	1			
3-23	95026183	O-RING	1	1	1	2
3-24	32184129	ASSEMBLY, PISTON UNLOADER	1			
3-25	95077418	*LOCKNUT - 7/16-20	1	1	1	2
3-26	32172645	*PLATE, WASHER RETAINING	1			
3-27	32172629	*SEAL, UNLOADER PISTON	1	1	1	2
3-28	32188385	O-RING, UNLOADER PISTON	1	1	1	2
3-29	NSS	*PISTON, UNLOADER	1	1	1	2
3-30	95104188	CAPSCREW- HEX 1/2-13 x 1-3/4"	7			
3-31	95104279	CAPSCREW - HEX 1/2-13 x 4-1/4"	1			
3-32	32172207	AIRHEAD - 1ST STAGE	1			
3-33	32172926	GASKET, AIRHEAD - 1ST STAGE	1	1	1	2
3-34	32228330	ASSEMBLY, VALVE PLATE - 1ST STAGE (SEE FIGURE 5.)	1			
3-35	32172942	GASKET, VALVE PLATE - 1ST STAGE	1	1	1	2
NOTE: IN THIS PARTS LIST, FIRST (1ST) STAGE MAY ALSO BE CALLED OUT AS LOW PRESSURE AND SECOND (2ND) STAGE MAY ALSO BE CALLED OUT AS HIGH PRESSURE.						

NSS - NOT SOLD SEPARATELY

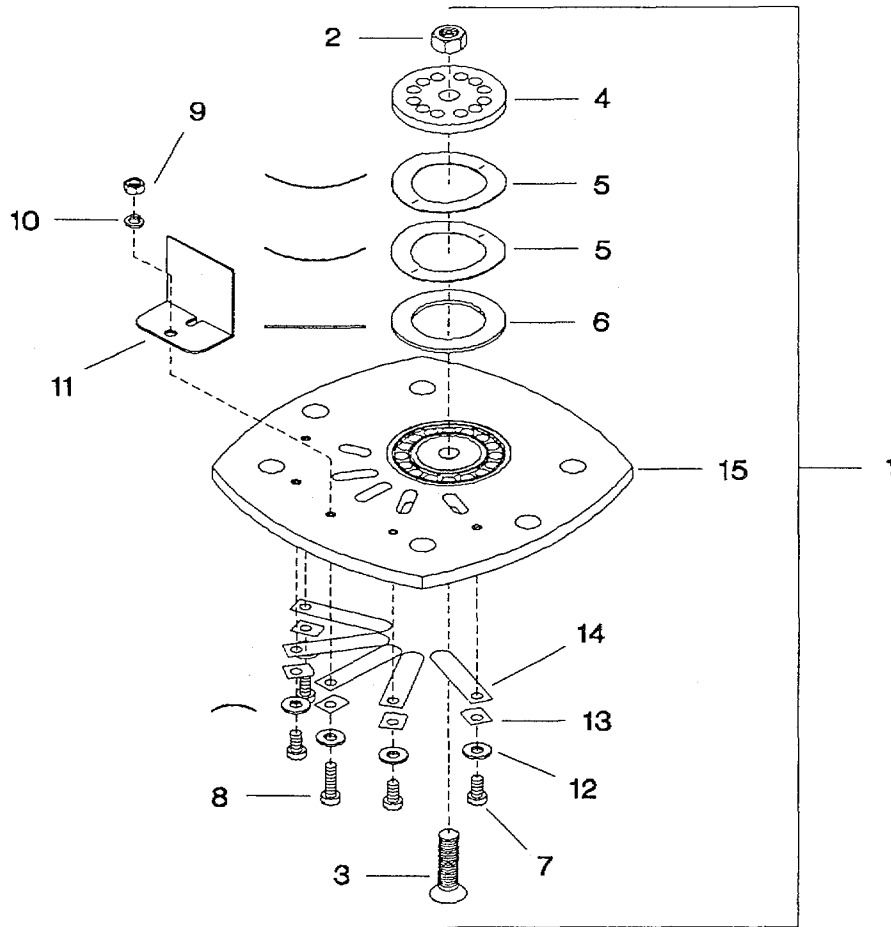


FIGURE 4. 2ND STAGE VALVE PLATE ASSEMBLY

REF. NMB.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	REC. SPARES		
				1	2	3
4-1	32228322	ASSEMBLY, 2ND STAGE VALVE PLATE	1	1	1	
4-2	97166946	. NUT - WHIZ-LOCK 7/16-14 HEX	1	1	1	1
4-3	32223927	* BOLT, VALVE	1	1	1	1
4-4	32228264	* PLATE, STOP - DISCHARGE	1			
4-5	30221394	. SPRING, VALVE - DISCHARGE	2	2	2	2
4-6	30215917	0 PLATE, VALVE - DISCHARGE	1	1	1	1
4-7	32035511	e SCREW - FILLISTER HEAD 1/4-20 x 3/8"	4	4	4	4
4-8	32224008	e SCREW, MACHINE - FILLISTER HEAD 1/4-20 x 3/4"	1	1	1	1
4-9	95416335	. NUT - HEX 1/4-20	1	1	1	1
4-10	32035479	. LOCKWASHER, SPRING - 1/4"	1	1	1	1
4-11	32223919	* DIFFUSER, VALVE PLATE	1			
4-12	32217382	*WASHER, BELLEVILLE- 1/4"	5	5	5	5
4-13	32228306	. RETAINER, VALVE - FINGER	5	5	5	5
4-14	30220115	*VALVE, FINGER	5	5	5	5
4-15	32228256	. PLATE, VALVE SEAT	1			
		IF VALVE REPLACEMENT IS DESIRED, WE RECOMMEND AN ECONOMICAL VALVE GASKET KIT. SEE PAGE 14.				

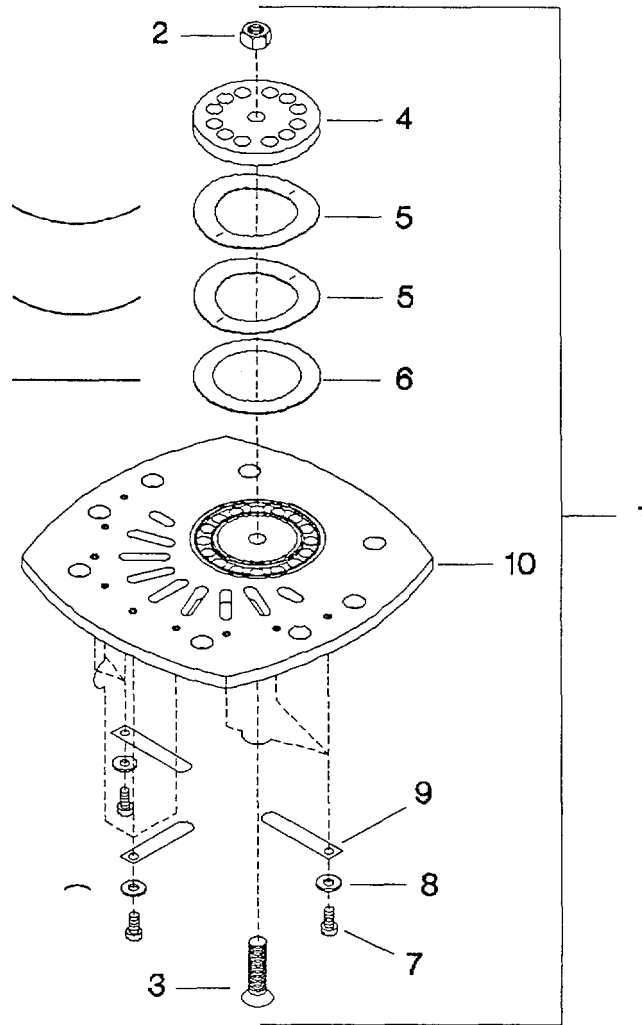


FIGURE 5. 1 ST STAGE VALVE PLATE ASSEMBLY

REF. NMB.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	REC. SPARES		
				1	2	3
5-1	32228330	ASSEMBLY, 1ST STAGE VALVE PLATE	1		1	2
5-2	97166946	*NUT - WHIZ-LOCK 7/16-14 HEX	1	1	2	2
5-3	32223927	*BOLT, VALVE	1	1	2	2
5-4	32228314a	*PLATE, STOP - DISCHARGE	1			
5-5	30221501	*SPRING, VALVE - DISCHARGE	2	2	4	4
5-6	30181499	*PLATE, VALVE - DISCHARGE	1	1	2	2
5-7	32035511a	*SCREW - FILLISTER HEAD 1/4-20 x 3/8"	9	9	9	18
5-8	32217382	*WASHER, BELLEVILLE- 1/4"	9	9	9	18
5-9	30220115	*VALVE, FINGER	9	9	9	18
5-10	32228249	*PLATE, VALVE SEAT	1			
IF VALVE REPLACEMENT IS DESIRED, WE RECOMMEND AN ECONOMICAL VALVE GASKET KIT. SEE PAGE 14.						

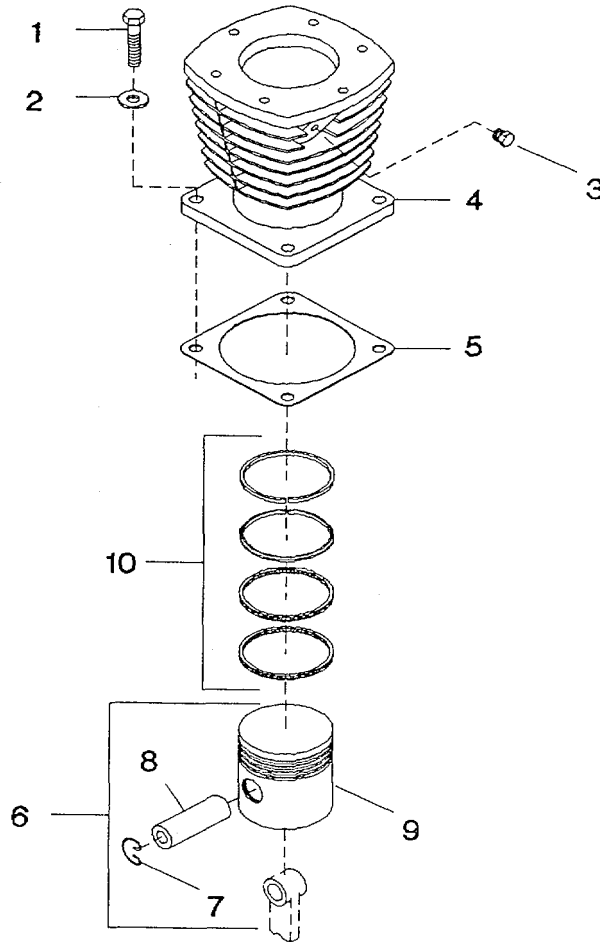


FIGURE 6. 3" PISTON AND CYLINDER ASSEMBLY

REF. NMB.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	REC. SPARES		
				1	2	3
6-1	95053567	CAPSCREW- HEX 1/2-13 x 1-1/4"	4			
6-2	95674701	GASKET, COPPER WASHER - 1/2"	4			
6-3	95252409	PLUG, PIPE - HEX HEAD 1/4"	1			
6-4	32174997	CYLINDER, AIR - 3" - 2ND STAGE	1			
6-5	30294235	GASKET, FLANGE	1	1	1	2
6-6	32223752	AIR PISTON - COMPLETE 3" - 2ND STAGE	1		1	1
6-7	30288450	*RING, LOCK	2			
6-8	32220592	*PIN, PISTON	1			
6-9	NSS	*PISTON, AIR - 3"	1			
6-10	32194276	SET, RING - 3"	1	1	1	2
IF RING REPLACEMENT IS DESIRED, WE RECOMMEND AN ECONOMICAL RING/GASKET KIT. SEE PAGE 14.						



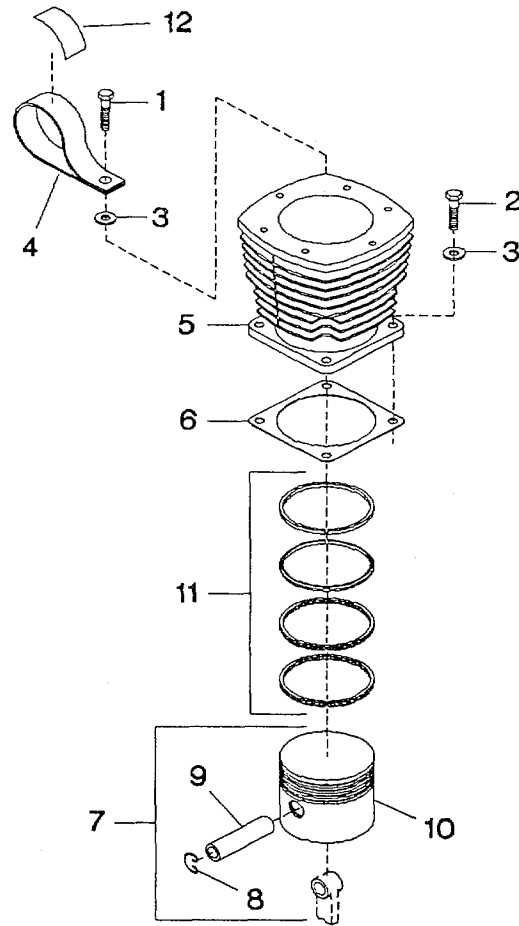


FIGURE 7. 5.5" PISTON AND CYLINDER ASSEMBLY

REF. NMB.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	REC. SPARES		
				1	2	3
7-1	95052924	CAPSCREW - HEX 1/2-13 x 1-1/2"	1			
7-2	95053567	CAPSCREW- HEX 1/2-13 x 1-1/4"	3			
7-3	95674701	GASKET, COPPER WASHER - 1/2"	4			
7-4	30289748	STRAP, LIFTING	1			
7-5	32172157	CYLINDER, AIR - 5.5" - 1ST STAGE	1			
7-6	30294235	GASKET, FLANGE	1	1	1	2
7-7	30215222	AIR PISTON - COMPLETE 5.5" - 1ST STAGE	1	1	1	
7-8	30288450	* RING, LOCK	2			
7-9	30288427	*PIN, PISTON	1			
7-10	NSS	*PISTON, AIR - 5.5"	1			
7-11	32194144	SET, RING - 5.5"	1112			
7-12	32200230	DECAL, LIFT COMPRESSOR ONLY	1			
		IF RING REPLACEMENT IS DESIRED, WE RECOMMEND AN ECONOMICAL RING/GASKET KIT. SEE PAGE 14.				

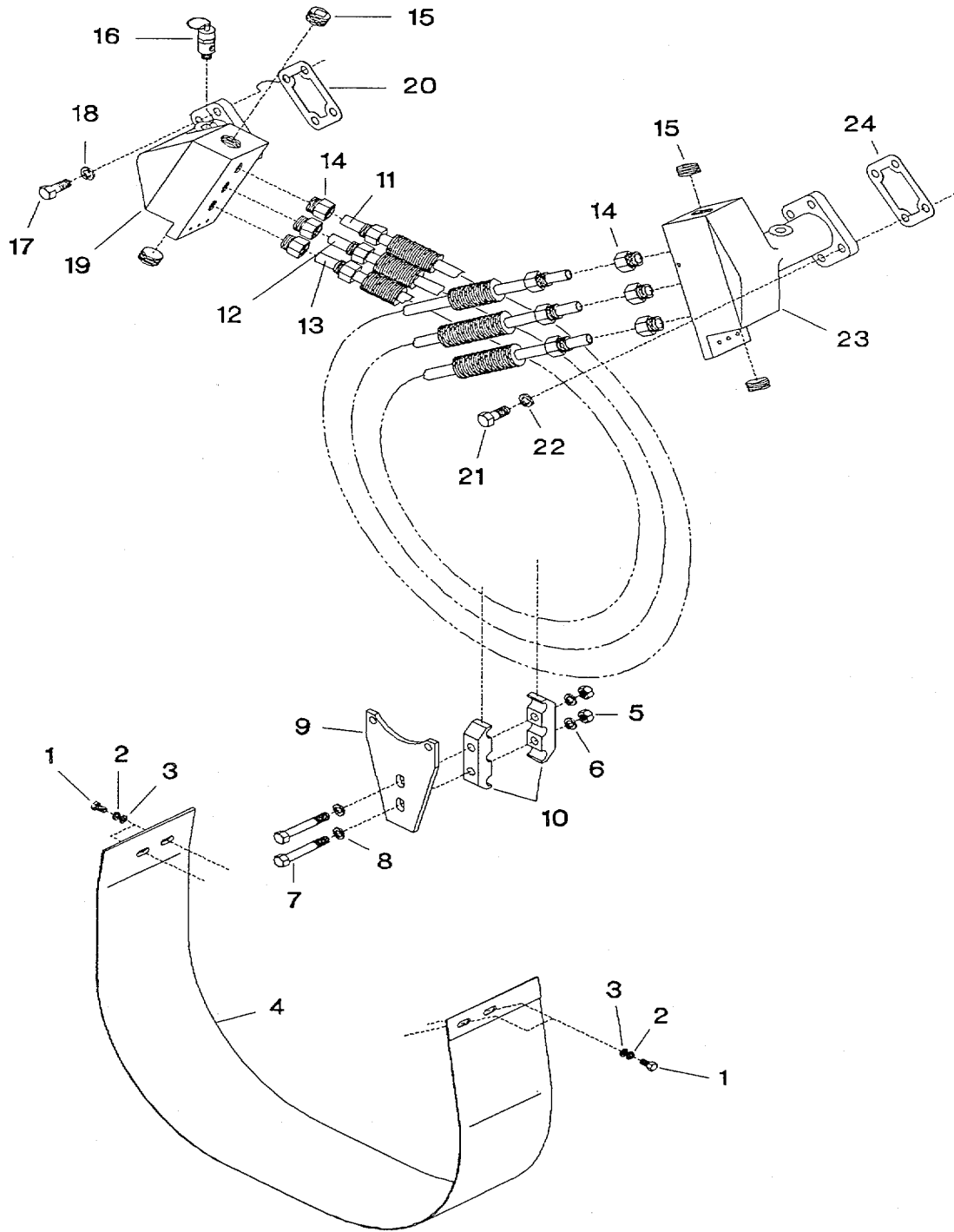


FIGURE 8. INTERCOOLER AND SHROUD ASSEMBLY

REF. NMB.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	REC. SPARES		
				1	2	3
8-1	95053070	CAPSCREW - HEX 1/4-20 x 1/2"	4			
8-2	95043196	LOCKWASHER, SPRING - 1/4"	4			
8-3	95094298	WASHER, FLAT 1/4"	4			
8-4	32205361	SHROUD, INTERCOOLER	1			
8-5	95077764	NUT - HEX 3/8-16	2			
8-6	95081857	LOCKWASHER, SPRING - 3/8"	2			
8-7	95079646	CAPSCREW - HEX 3/8-16 x 2-1/2"	2			
8-8	95069597	WASHER, FLAT - 3/8"	2			
8-9	32175010	BRACKET, INTERCOOLER	1			
8-10	32165367	CLAMP, INTERCOOLER TUBE OUTER	2			
8-11	32196941	TUBE ASSEMBLY, #3 FINNED	1		1	2
8-12	32196933	TUBE ASSEMBLY, #2 FINNED	1		1	2
8-13	32196925	TUBE ASSEMBLY, #1 FINNED	1		1	2
8-14	95083226	CONNECTOR, MALE - 5/8 x 1/2"	6			
8-15	95101457	PLUG, PIPE- SQUARE COUNTERSUNK 1"	4			
8-16	72062185	VALVE, SAFETY - 80 PSIG	12			
8-17	95079612	CAPSCREW - HEX 3/8-16 x 1"	4			
8-18	95081857	LOCKWASHER, SPRING - 3/6"	4			
8-19	32177313	MANIFOLD - LOW PRESSURE	1			
8-20	32153801	GASKET, MANIFOLD-	1	1	1	2
8-21	95079612	CAPSCREW - HEX 3/8-16 x 1"	4			
8-22	95081857	LOCKWASHER, SPRING - 3/8"	4			
8-23	32177347	MANIFOLD - HIGH PRESSURE	1			
8-24	32153827	GASKET, MANIFOLD -	1	1	1	2

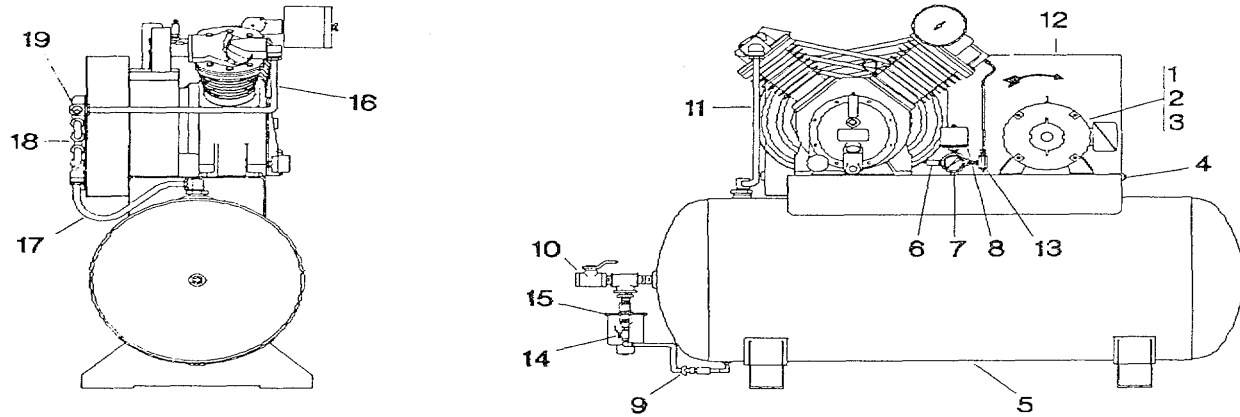


FIGURE 9. COMPRESSOR DRIVE, AIR RECEIVER AND ACCESSORIES.

REF. NMB.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	REC. SPARES		
				1	2	3
9-1	*	MOTOR, ELECTRIC	1			
9-2	*	PULLEY, MOTOR	1			
9-3	*	BELT, "V"	2		2	2
9-4	32203408	TIGHTENER, BELT - COMPLETE 10 HP STD.	1			
9-4	32203416	TIGHTENER, BELT - COMPLETE 15 HP STD.	1			
9-5	32190548	RECEIVER ASSEMBLY - 120 GAL., HORIZONTAL	1			
9-5	32185126	RECEIVER ASSEMBLY - 240 GAL., HORIZONTAL	1			
9-6	31385693	VALVE, SAFETY - RECEIVER - 200 PSIG	1		1	1
9-7	32013872	GAUGE, PRESSURE - 300 PSIG	1	1	1	1
9-8	37005907	SWITCH, PRESSURE - NEMA 1	1	1	1	1
9-9	32027120	VALVE, DRAIN - MANUAL	1			
9-10	32180242	VALVE, BALL- SERVICE	1			
9-11	32190449	TUBE ASSEMBLY - COMPRESSOR/120 GAL. HORIZ. RECEIVER	1			
9-11	32188484	TUBE ASSEMBLY - COMPRESSOR/240 GAL HORIZ. RECEIVER	1			
9-12	32196651	BELTGUARD - COMPLETE	1			
9-13	32170797	VALVE, AUXILIARY - DUAL CONTROL 175 PSI	1			
***	32212649	KIT, DECAL	1			
		<b>OPTIONAL EQUIPMENT</b>				
9-14	32180200	VALVE, BALL- 1/4"	11			
9-15	32005282	TRAP, AUTO DRAIN	1			
9-16	32188492	TUBE ASSEMBLY - COMPRESSOR/ACAC	1			
9-17	32190670	TUBE ASSEMBLY - ACAC/120 GAL. HORIZ. RECEIVER	1			
9-17	32188500	TUBE ASSEMBLY - ACAC/240 GAL. HORIZ. RECEIVER	1			
9-18	32184657	COIL, AFTERCOOLER	1	1		
9-19	32174286	VALVE, SAFETY - DISCHARGE 325 PSI	11	1		
**	39172523	OIL, XL-NOVA- SYNTHETIC COMPRESSOR LUBRICANT	1 GAL.	1		

\* Specify compressor bare speed and complete motor nameplate data.  
 \* Purchase from your local Ingersoll-Rand Distributor.  
 \*\*\* Not shown in illustration.

**STEP SAVER KITS**

For your convenience, the following parts and/or spare parts for your compressor are available in parts kits. When ordering the kits below, use kit names as Description and the Part Number as shown.

MODEL	PART NUMBER	DESCRIPTION
7100	32166787	KIT, FILTER/SILENCER
	32229882	KIT, VALVE/GASKET
	32194029	KIT, RING/GASKET
	32127474	KIT, BEARING/CON ROD
	32229908	SET, GASKET - COMPLETE

**NOTICE**

THE USE OF REPAIR PARTS OTHER THAN THOSE INCLUDED WITHIN THE INGERSOLL-RAND COMPANY APPROVED PARTS LIST MAY CREATE UNSAFE CONDITIONS OR MECHANICAL FAILURES OVER WHICH THE INGERSOLL-RAND COMPANY HAS NO CONTROL. THEREFORE, INGERSOLL-RAND COMPANY CAN BEAR NO RESPONSIBILITY FOR EQUIPMENT IN WHICH NON-APPROVED REPAIR PARTS ARE INSTALLED.

The manufacturer reserves the right to make changes or add improvements without notice and without incurring any obligation to make such changes or add such Improvements to products sold previously.

**GLOSSARY -**

**GROUP ASSEMBLY PARTS LIST**

Parts are listed in disassembly sequence, where applicable. The relationship of an article to its next higher assembly is indicated by indenture. For example, in the description column; indicate that the part is "Not Applicable" to certain models.

**Assemblies and Detail Parts**

- .Attaching Parts for Assemblies and Detail Parts
- ..Subassemblies
- ...Attaching Parts of Subassemblies
- ...Detail Parts for Subassemblies, etc.

**ITEM COLUMN**

The item number is the number assigned to the part in the listing. This item number identifies the part on the associated illustration.

**PART NUMBER COLUMN**

All numbers shown are Ingersoll-Rand part numbers which must be specified when ordering replacement parts. The letters NSS indicates that the part is "Not Sold Separately" with certain models. The letter NA indicates that the part is "Not Applicable" to certain models.

**DESCRIPTION COLUMN**

The description column contains the standard item name with modifiers. The relationship of an article to its next higher assembly is shown in this column by indenture.

**QTY PER ASSEMBLY COLUMN**

The quantities specified in this column are the number of parts used per one next higher assembly and are not necessarily the total number of parts used in the overall model. The letters NA

**HOW TO SELECT RECOMMENDED SPARES**

This catalog contains a listing of the parts which are included in each of the following classes of recommended spares.

CLASS I - MINIMUM-Suggested for Domestic Service where interruptions in service are not important.

CLASS II -AVERAGE- Suggested for Domestic Service where some interruptions in continuity of service are not objectionable.

CLASS III -MAXIMUM-Suggested for Export or for Domestic Service where interruption in service are objectionable.

When ordering recommended spares or step-saver kit, please follow the procedure as outlined for compressor parts.

**ORDERING INSTRUCTIONS**

Refer all communications to the nearest Ingersoll-Rand Service Distributor

**HOW TO ORDER COMPRESSOR PARTS**

When ordering replacement parts, please specify.

1. The MODEL and SERIAL NUMBER as stamped on Compressor Nameplate.
2. The FORM NUMBER of this booklet.
3. The QUANTITY, DESCRIPTION & PART NUMBER exactly as listed.

**EXAMPLE**

Send the following parts for a Model \_\_\_\_\_

Serial No. \_\_\_\_\_

Literature Form Number \_\_\_\_\_

- |                    |            |
|--------------------|------------|
| 1 Switch, Pressure | (32147738) |
| 1 Element-Filter   | (97021745) |
| 1 Gauge, Pressure  | (32013872) |

**SECTION C20**

This Commercial 'C' section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5-3895-374-24.

<b>CAGE Code</b>	<b>NAME and ADDRESS</b>	<b>TELEPHONE</b>	<b>FAX NUMBER</b>
0W697	Kito Canada Inc. 309 3815 1st Avenue Burnaby, B.C. V5C 3V6	(604) 291-9955	(604) 294-8855

**Description of Components:**

Electric Chain Hoist

**Components:****Model**

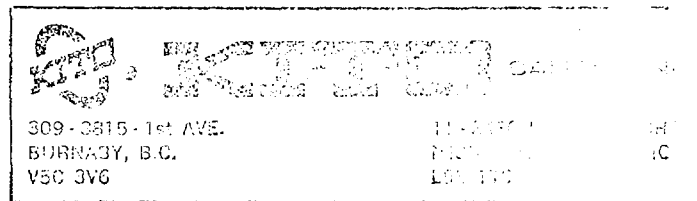
1E-BN



# EF2 SINGLE PHASE ELECTRIC CHAIN HOIST

# PARTS

# LIST



## IMPORTANT

When ordering replacement parts, please specify the following points:

1. Hoist capacity, voltage and cycle.
2. Model number in name plate.
3. Correct part names and numbers.
4. Lineal length of push button cord, chain lift or power supply cable.

A HOUSING AND MOTOR PARTS

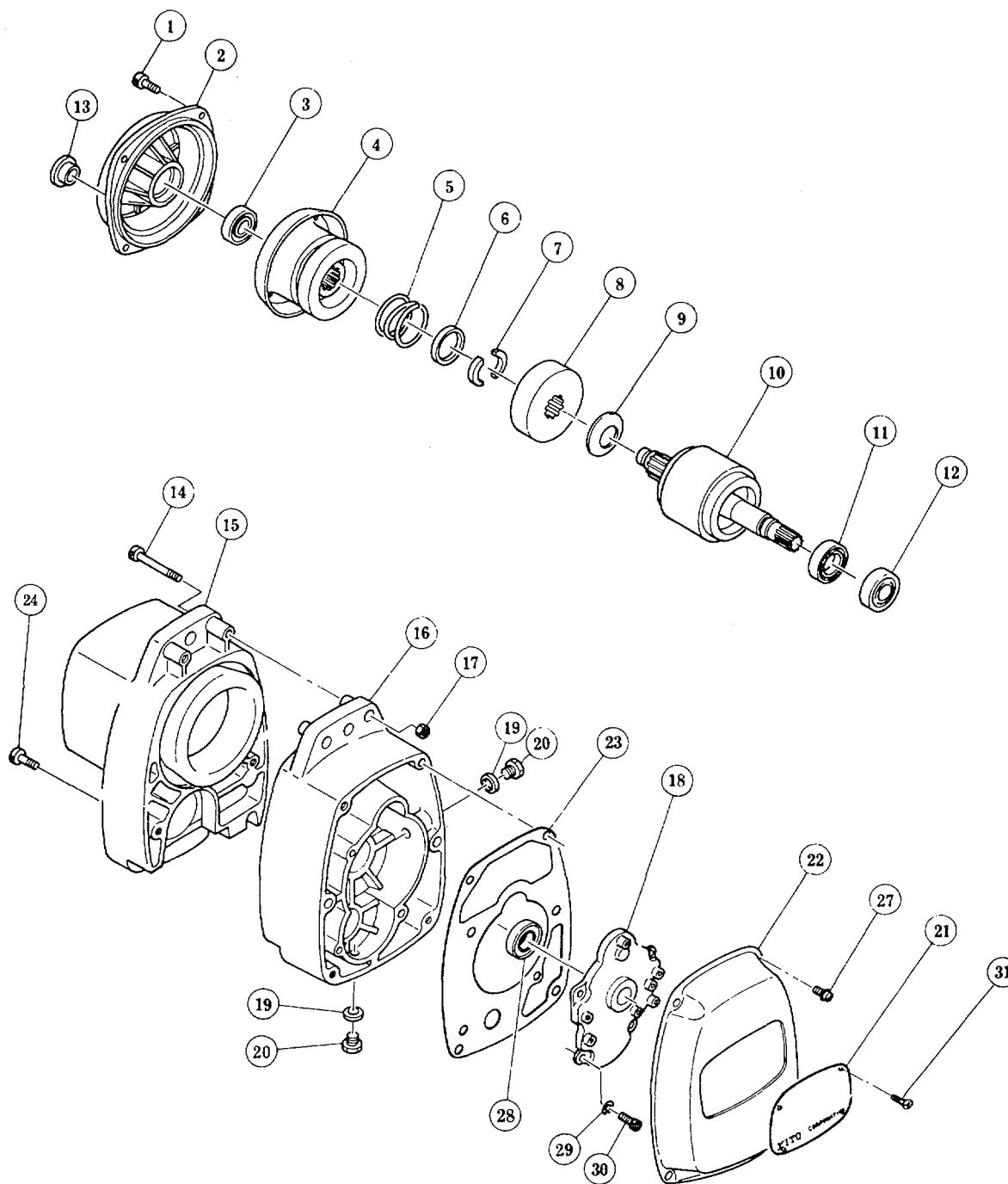




Fig No.	Part No.	Part Name	Parts Per Hoist	Capacity					
				1/4-S	1/2-L	1/2-S	1-L	1-S	2-L
1	E6F 162	Socket bolt	4	M 6 X18X18			M 8 X20X20		
2	E6F6107	Motor cover assembly	1						
* 3	E6F 202	Ball bearing	1	6202			6203		
4	6FS5212	Brake drum assembly	1						
5	E6FS 214	Brake spring	1						
6	E6FS 506	Thrust collar	1						
7	E6FS 505	Thrust disc	2						
8	E6FS 503	Pull-rotor	1						
9	E6FS 504	Coned-disc spring	1						
10	E6FS5502	Motor shaft with rotor	1						
11	E6FS 221	Oil seal	1						
12	E6F 222	Ball bearing	1	6003			6004		
13	E6F 120	Plug	1						
14	E6F 160	Socket bolt	2	M 6 X60X18			M 8 X75X22		
15	E6FS5102	Body M with stator	1						
16	E6F 101	Body G	1						
17	E6F 158	Nut	2	M 6			M 8		
18	E6F 113	Gear cover	1						
19	E6F 108	Plug packing	2						
20	E6F 111	Oil plug	2						
21	E6FS 800	Name plate BI	1						
22	E6FS 104	Controller cover	1						
23	E6F 107	Controller cover- packing	1						
24	E6F 161	Socket bolt	2	-----			M 8 X45X22		
			4	M 6 X40X 18			-----		
27	E6F 151	Machine screw with spring washer	4	M 6 X12			-----		
			6	-----			M 6 X12		
28	E6FS 235	Oil seal	1						
29	E6F 155	Spring washer	4	M 6					
30	E6F 156	Socket bolt	4	M 6 X18X18			M 6 X25X25		
31	E6FS 861	Rivet (CSA use only)	4	3 X 5			3 X 4		

\*3 When replacing Ball Bearing, put Bearing Mount No 85" LOCTITE CORP or other equivalent chemical glue.

B GEARING PARTS

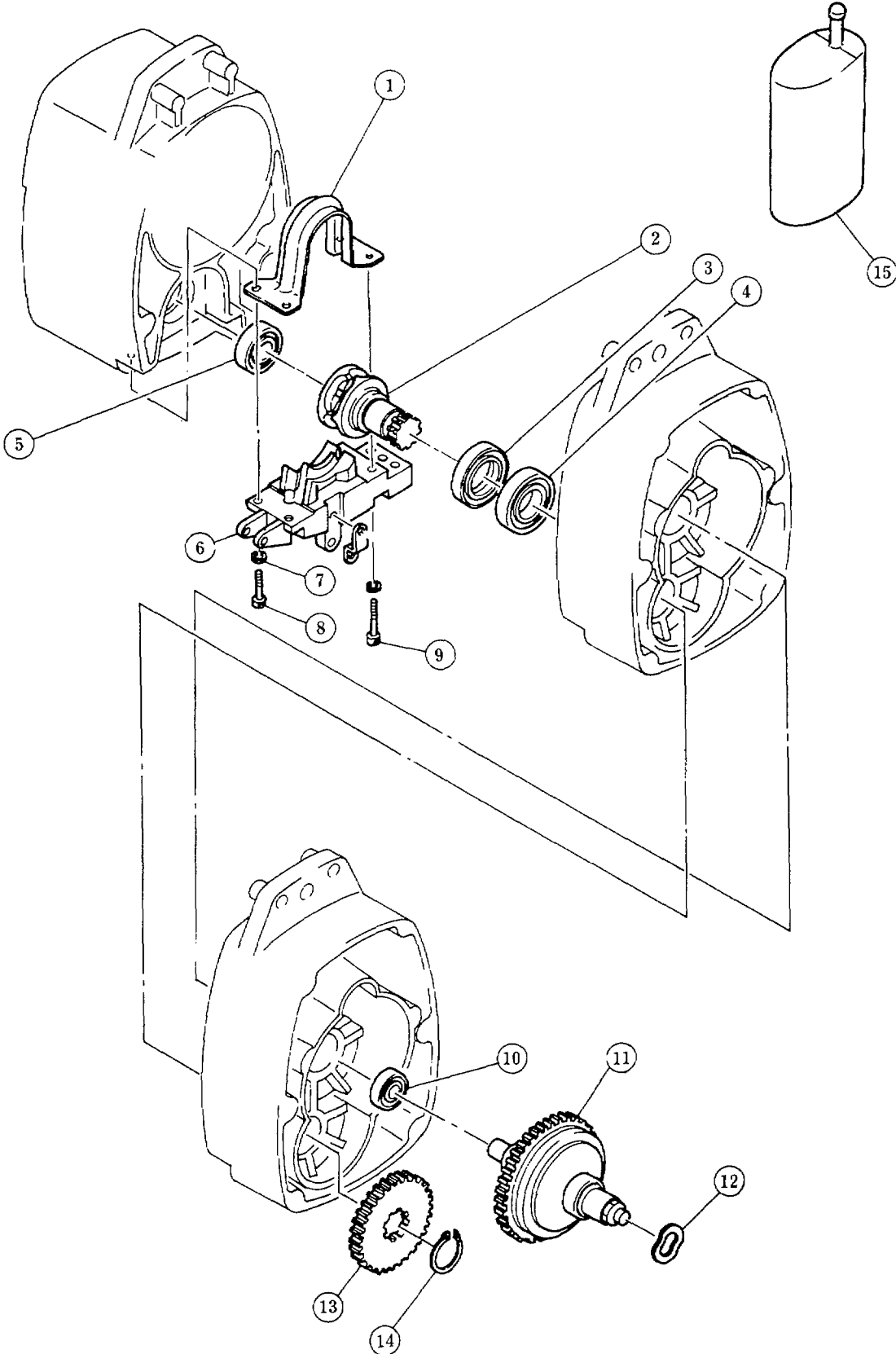
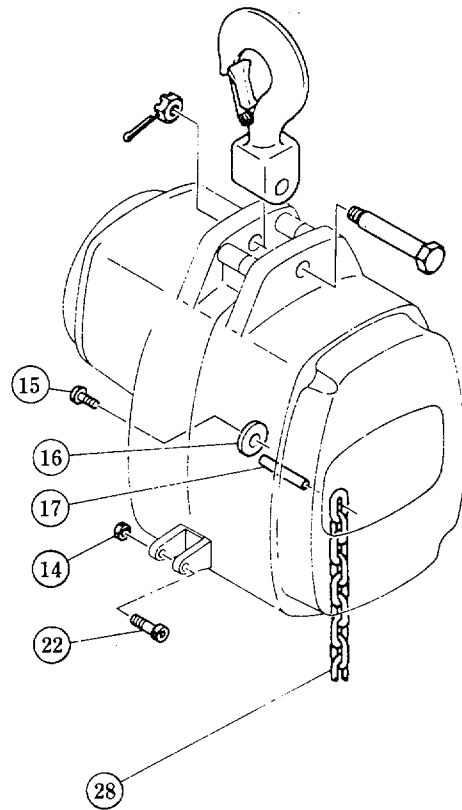
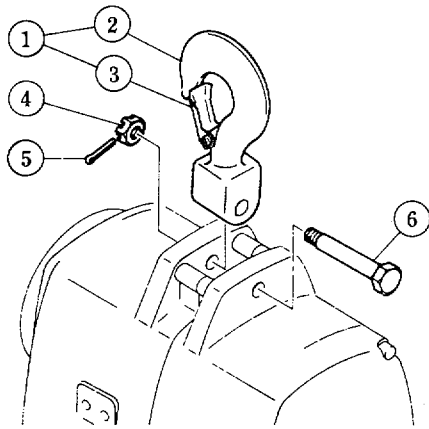
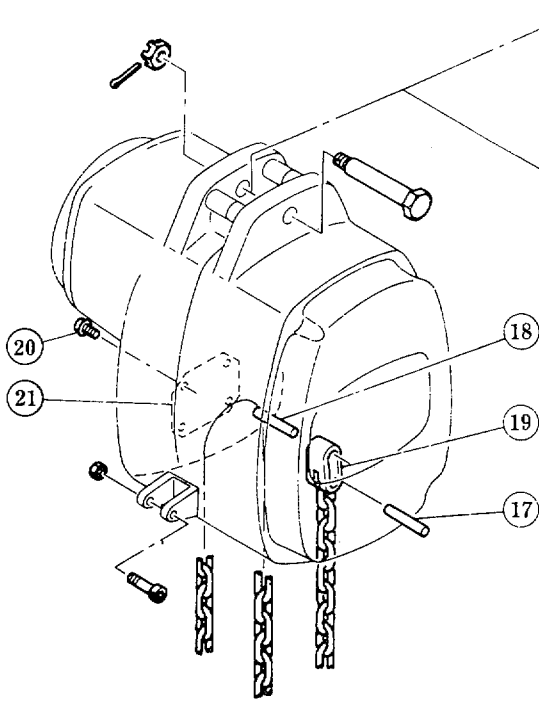


Fig No.	Part No.	Part Name	Parts Per Hoist	Capacity						
				1/4-S	1/2-S	1/2-S	1-L	1-S	2-L	
1	E6F 402	Chain guide B	1							
2	E6F 234	Load sheave	1							
3	E6F 236	Oil seal	1							
4	E6F 237	Ball bearing	1	6004			6006			
5	E6F 238	Ball bearing	1	6004			6205			
6	E6F 401	Chain guide A	1							
7	E6F 453	Spring washer	4	M 5			M 6			
8	E6F 451	Socket bolt	2	M 5 X30X18			M 6 X30X18			
9	E6F 452	Socket bolt	2	M 5 X35X18			M 6 X40X18			
10	E6F 231	Ball bearing	1	6202			6302			
11	E6F1301	Friction clutch assembly	1							
12	E6F 311	Set spring	1							
13	E6F 233	Load gear	1							
14	E6F 240	Snap ring	1	S-19			S--27			
15	E6F5901	Gear oil	1							

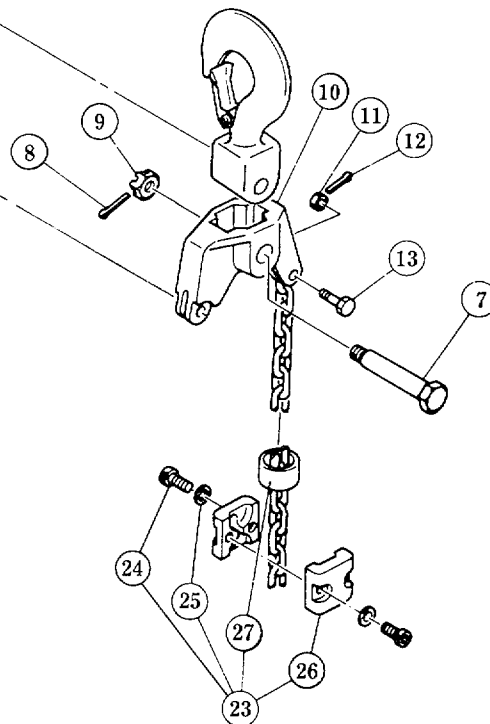
**C CHAINING AND TOP HOOK PARTS**



1/4tS&1/2tL



1/2tS, 1tL&S



2tL

Fig No.	Part No.	Part Name Hoist	Parts Per Hoist	Capacity					
				1/4-S	1/2-L	1/2-S	1-L	1-S	2-L
1	E6F1001	Top hook assembly	1						
2	E6F 001	Top hook	1						
3	E6F 1071	Hook latch assembly	1						
4	E6F 166	Slotted nut	1	M 10					
5	E6F 167	Split pin	1	2.5X18					
6	E6F 117	Top pin	1						
7	ES 006	Top pin L	1						
8	E6F 089	Split pin	1					4 X30	
9	E6F 088	Slotted nut	1					M 16	
10	E6F 005	Connection yoke	1						
11	E6F 049	Slotted nut	1						
12	E6F 096	Split pin	1					2 X15	
13	E6F 041	Chain pin	1						
14	ES 855	U-nut	2						
15	E6F 164	Machine screw with spring washer	1						
16	E6F 127	Stopper plate	1						
17	E6F 124	Chain pin A	1						
18	E6F 125	Chain pin B	1						
19	E6F 126	Suspension plate	1						
20	E6F 163	Machine screw with spring washer	4			M 6X12		M 6X12	
21	E6F 123	Cover	1						
22	E6F 154	Socket bolt	2	M 6 X45X 8					
23	E6F1036	Stopper L assembly	1						
24	E6F 086	Socket bolt	2					M 6X20X18	
25	E6F 155	Spring washer	2					M 6	
26	E6F 036	Stopper L	2						
27	E6F 037	Stopper cover	1						
28	E6F 841	Load chain	1						

**D BOTTOM HOOK PARTS**

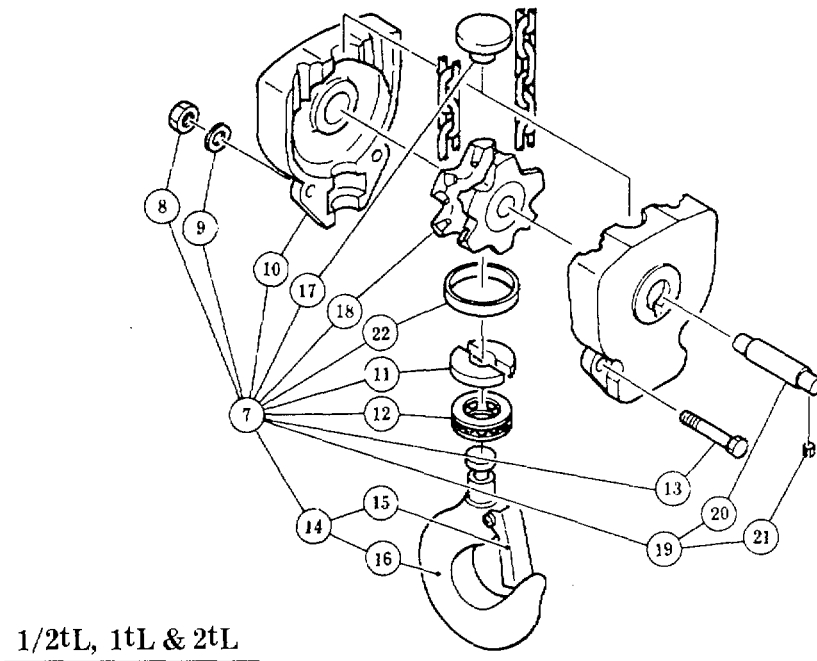
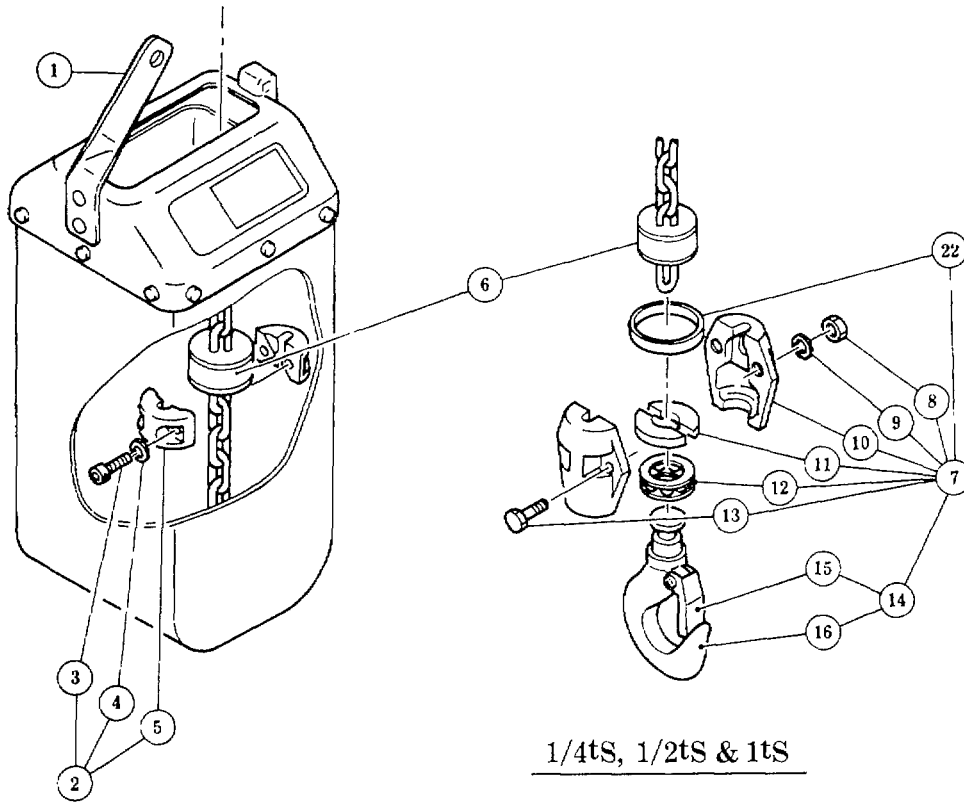
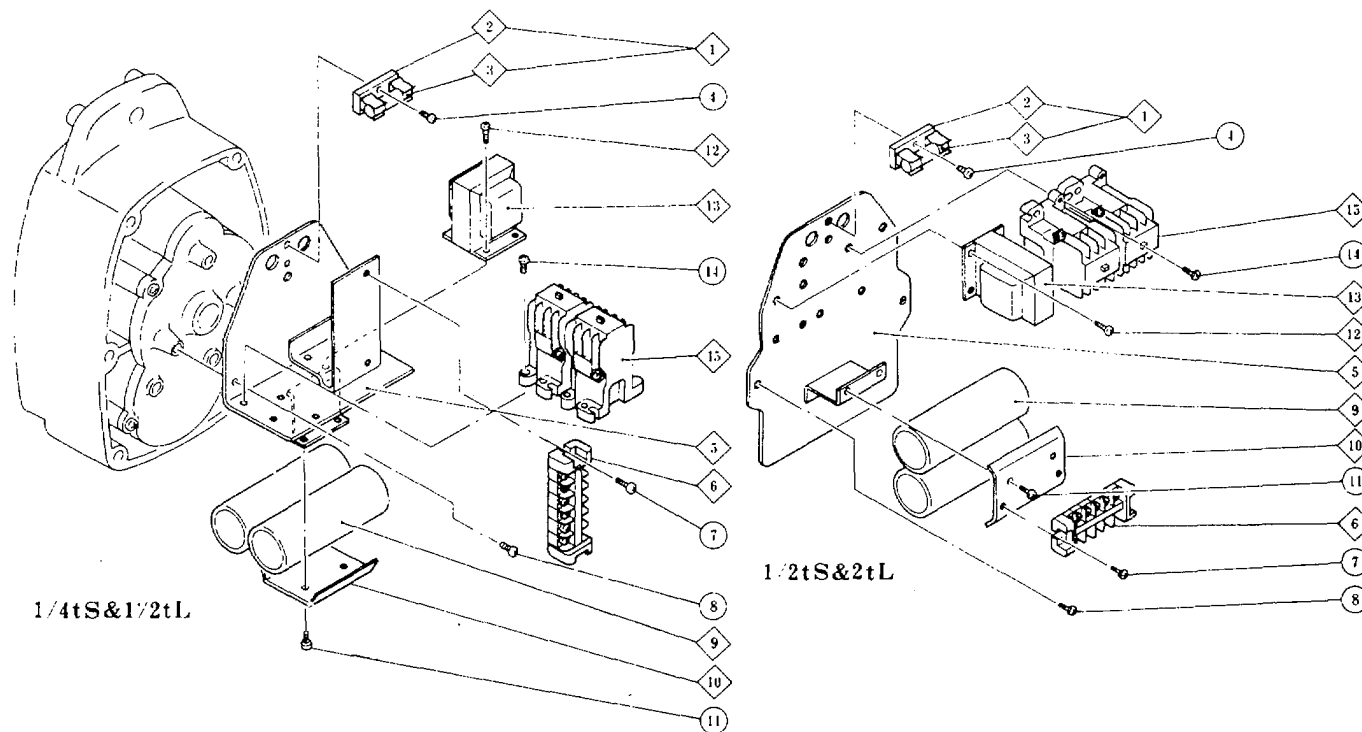


Fig No.	Part No.	Part Name	Parts Per Hoist	Capacity					
				1/4-S	1/2-L	1/2-S	1-L	1-S	2-L
1	6F5830	Chain container L	1						
	E6F5831	Chain container S							
2	F6F1045	Stopper assembly	1						
3	E6F 086	Socket bolt	2	M 5 X18		MI 6 X18			
4	E6F 087	Spring washer	2	M 5		M 6			
5	E6F 045	Stopper	2						
6	E6F 046	Cushion rubber S	1						
			2						
7	E 6F1021	Bottom hook complete set	1						
8	E6F 083	Nut	2	M 6			M 8		
9	Es6F 084	Spring washer	2	M 6			M 8		
10	E6F 032	Bottom y oke1 2air							
11	E6F 027	Hook stopper	2						
12	E6F 022	Thrust bearing	1	51103		51104		51105	
13	E6F 082	High strength bolt	2	M 6 X 25X18			M 8 X30X22		
14	E6F2021	Bottom hook assembly	1						
15	E6F1071	Hook latch assembly	1						
16	E6F 021	Bottom hook	1						
17	F6F 047	Cushion rubber L	1						
18	E6F1051	Idle sheave assembly	1						
19	E6F1064	Bottom shaft assembly	1						
20	E.6F 064	Bottom shaft	1						
21	E6F 055	Spring pin	1		4 X 8		4 X 8	5X10	
22	E.S 026	Thrust collar A	1						

**E ELECTRIC PARTS**

(When ordering, specify voltage, cycles for your hoist)



**Direct Voltage Control Type**

Fig No.	Part No.	Part Name	Parts Per Hoist	Capacity		
1	E6FS1632*	Fuse assembly	1			
2	E6FS 633*	Fuse holder	1			
3	E6FS 632*	Fuse	1			
4	E6F 664*	Machine screw- with spring washer	2	M4 X 16		
5	E6FS5601	Panel assembly	1			
6	E6F 602	Terminal plate 6P	1			
7	-6F 652	Machine screw with spring washer	2	M4 X 16		
8	E6F 651	Machine screw with spring washer	3	M6 X 12		
9	E6FS1631	Condenser assembly	1			
10	E6f S 636	Condenser holder	1			
11	E6F 652	Machine screw with spring washer-	2	M4 X 16		

\* marked parts are not used on CSA type

**Low Voltage Control Type (Additional Parts to Direct Voltage Control Type Parts)**

Fig No.	Part No.	Part Name	Parts Per Hoist	Capacity					
				1/4-S	1/2-L	1/2-S	1-L	1-S	2-L
12	E6FS 663	Machine screw with spring washer	4	M4 X 8					
13	E6E1S 616	Transformer	1						
14	HE6F 662	Machine screw with spring washer	4	M4 x16					
15	E6F 617	Electromagnetic contactor,	2						



FA CONTROL STATION PARTS

DIRECT VOLTAGE CONTROL TYPE

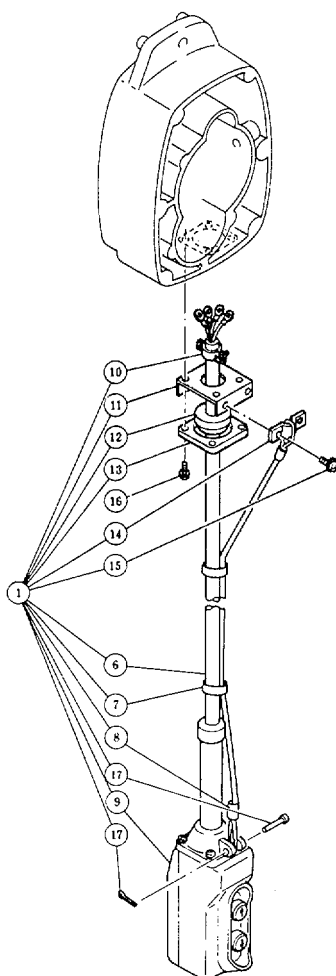


Fig No.	Part No.	Part Name	Parts Per Hoist	Capacity						
				1/4-S	1/2-L	1/2-S	1-L	1-S	2-L	
1	E6F1607	2 Push buttons cord complete set	1							
	10	E6F1612	Cable clamp 14 assembly	2						
	11	E6F 613	Holder plate U	1						
	12	E6F 611	Packing 14	1						
	13	E6F 605	Cable holder 42	1						
	14	E6F 614	Cord chain stopper	1						
	15	E6F 660	Machine screw with spring washer	2			M 6 X10			
	6	E6F 607	Push button cord 4 C	1						
	8	E6F- 638	Fixing sleeve	2						
	7	E6F 617	Lock belt	2						
	17	E6F 541	Cord chain pin with split pin	1						
	9	E6F1615	2 Push buttons switch assembly	1						
	16	E6F 551	Machine screw with spring washer	4			M 5 X 25			

\* When ordering, specify voltage, cycles for your hoist.

FB CONTROL STATION PARTS

LOW VOLTAGE CONTROL TYPE

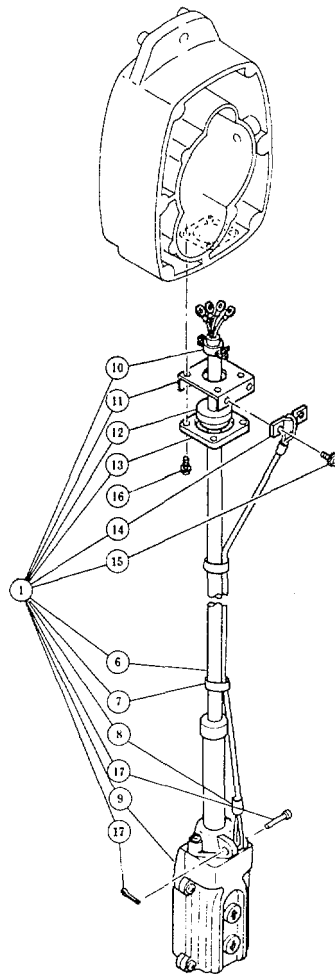


Fig No.	Part No.	Part Name	Parts Per Hoist	Capacity					
				1/4-S	1/2-L	1/2-S	1-L	1-S	2-L
1	E6FS1607L	2 Push buttons cord complete set	1						
10	E6F1612	Cable clamp 14 assembly	2						
11	E6F 613	Holder plate U	1						
12	E6F 611	Packing 12	1						
13	E6F 605	Cable holder 42	1						
14	E6F 614	Cord stopper	1						
15	E6F 660	Machine screw with spring washer	2				M 6 X 10		
6		E6FS 607L Push button cord 3C	1						
8	E6F 638	Fixing sleeve	2						
7	E6F 617	Lock belt	2						
17	E6F 638	Cord chain pin with split pin	1						
9	E6FS1615L	2 Push buttons switch assembly	1						
16	E6F 551	Machine screw with spring washer	4				M 5 X 25		

FC CONTROL STATION PARTS

DIRECT VOLTAGE CONTROL TYPE

(CSA TYPE)

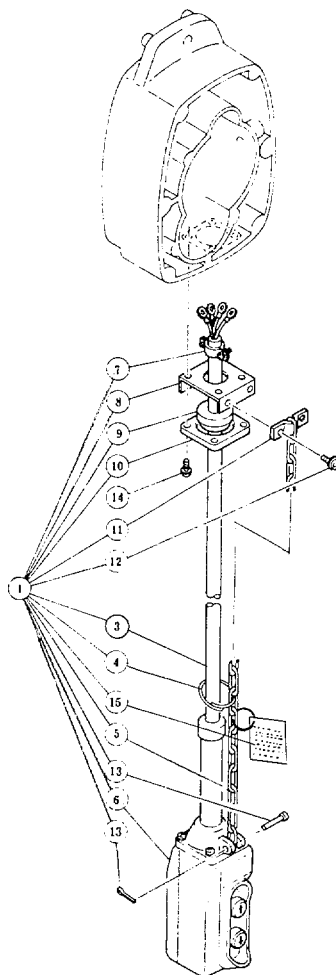


Fig No.	Part No.	Part Name	Parts Per Hoist	Capacity					
				1/4-S	1/2-L	1/2-S	1-L	1-S	2-L
1	F6FS1607D	2 Push button cord complete set	1						
3	E6FS 607D	Push button cord 4C	1						
4	E6F 629	Cord ring	5						
5	E6F 627	Cord chain	1						
6	E6FS1615D	2 Push button switch assembly	1						
7	E6F 612	Cable clamp 18 assembly	1						
8	E6F 613	Holder plate U	1						
9	E6F 611	Packing 18	1						
10	6F 522	Cable holder 42	1						
11	E617 614	Cord chain stopper	1						
12	E6F 660	Machine screw with spring washer	2				M 6 X10		
13	E6F 541	Cord chain pin with split pin	1						
15	E6FS815	Tag S with ring	1						
14	E6F 551	Machine screw with spring washer	4				NM 5 X25		

G POWER SUPPLY PARTS

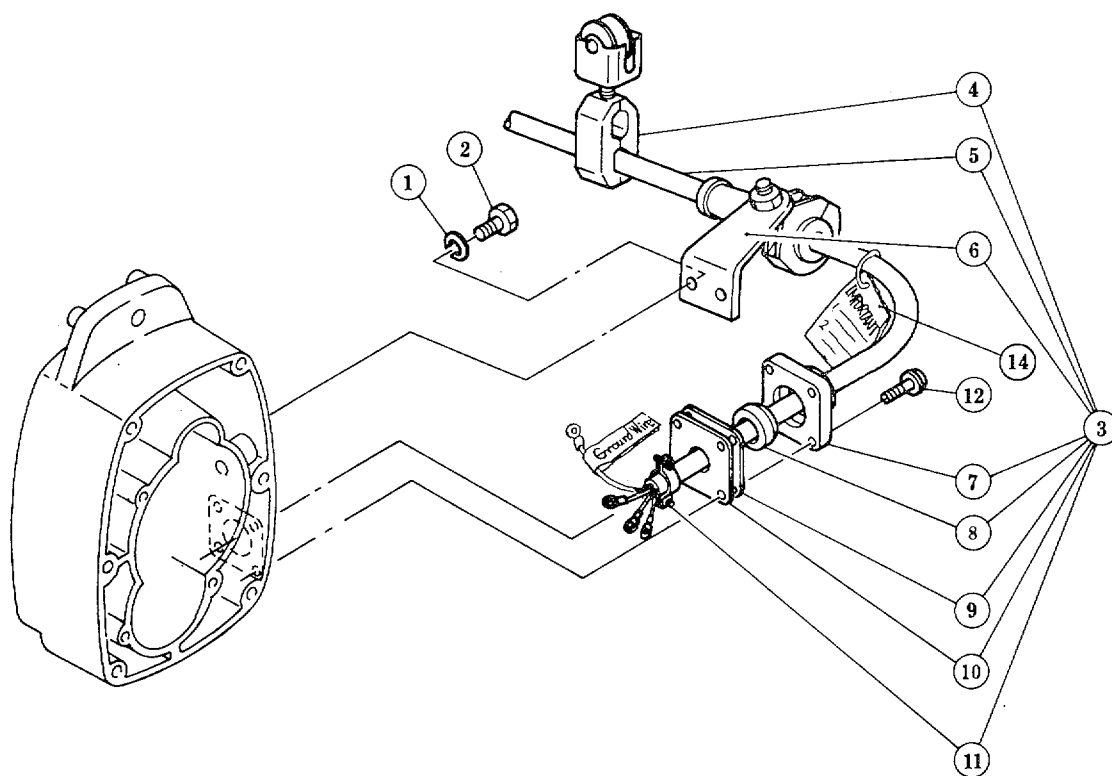


Fig No.	Part No.	Part Name	Parts Per Hoist	Capacity					
				1/4-S	1/2-L	1/2-S	1-L	1-S	2-L
1	E6F 854	Spring washer	2	M 8					
2	E6F 853	Bolt	2	M 8 X14					
3	E6FS1521	Power supply cable complete set	1						
4	E6F 1527	Cable hanger assembly	3						
5	E6FS 521	Power supply cable 4C	1						
6	E6F1822	Cable clamp arm assembly	1						
7	E6F 522	Cable holder 42	1						
8	E6F 523	Packing 14	1						
9	E6F 537	Holder plate 42	1						
10	E6F 536	Plate packing	1						
11	E6F1524	Cable clamp 14 assembly	1						
12	E6F 551	Machine screw with spring washer	4	M 5 X 25					
14	E6F 814	Tag F with ring	1	(CSA use only)					

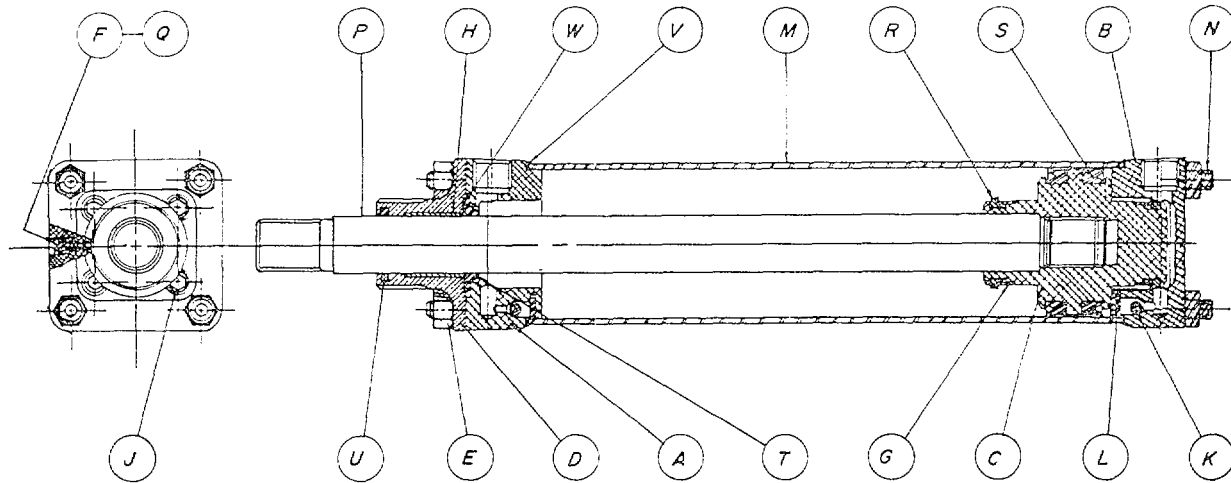
## SECTION C21

This Commercial "C" section of the parts manual contains partial or complete pages from the vendors manual or catalog sheet. This information is complete in the identification of the spare parts needed to support the identified equipment. Additional information may be available in the Maintenance Manual TM 5389537424.

CAGE Code	NAME and ADDRESS	TELEPHONE	FAX NUMBER
38846	Spotton 3211 Lenworth Drive Mississauga, Ontario L4X 2G6	(416) 625-6400	(416) 625-2686

Description of Components: Cylinders

**PARTS LIST - CUSHION TYPE STANDARD CYLINDER**



**SPUTTONAIR CYLINDER PARTS LIST**

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
A	HEAD	H	BEARING SLEEVE	Q	CUSHION SCREW SEAL
B	CAP	J	BEARING SCREW	R	CUSHION SEAL
C	PISTON	K	BALL	S	PISTON SEAL
D	BEARING	L	PIN	T	ROD SEAL
E	TIE ROD NUT	M	CYLINDER BARREL	U	WIPER SEAL
F	CUSHION ADJUSTING SCREW	N	TIE ROD	V	BARREL GASKET
G	CUSHION SEAL RETAINER	P	PISTON ROD	I	ROD SEAL RETAINER

**SPOTONAIR CYLINDER PARTS LIST**

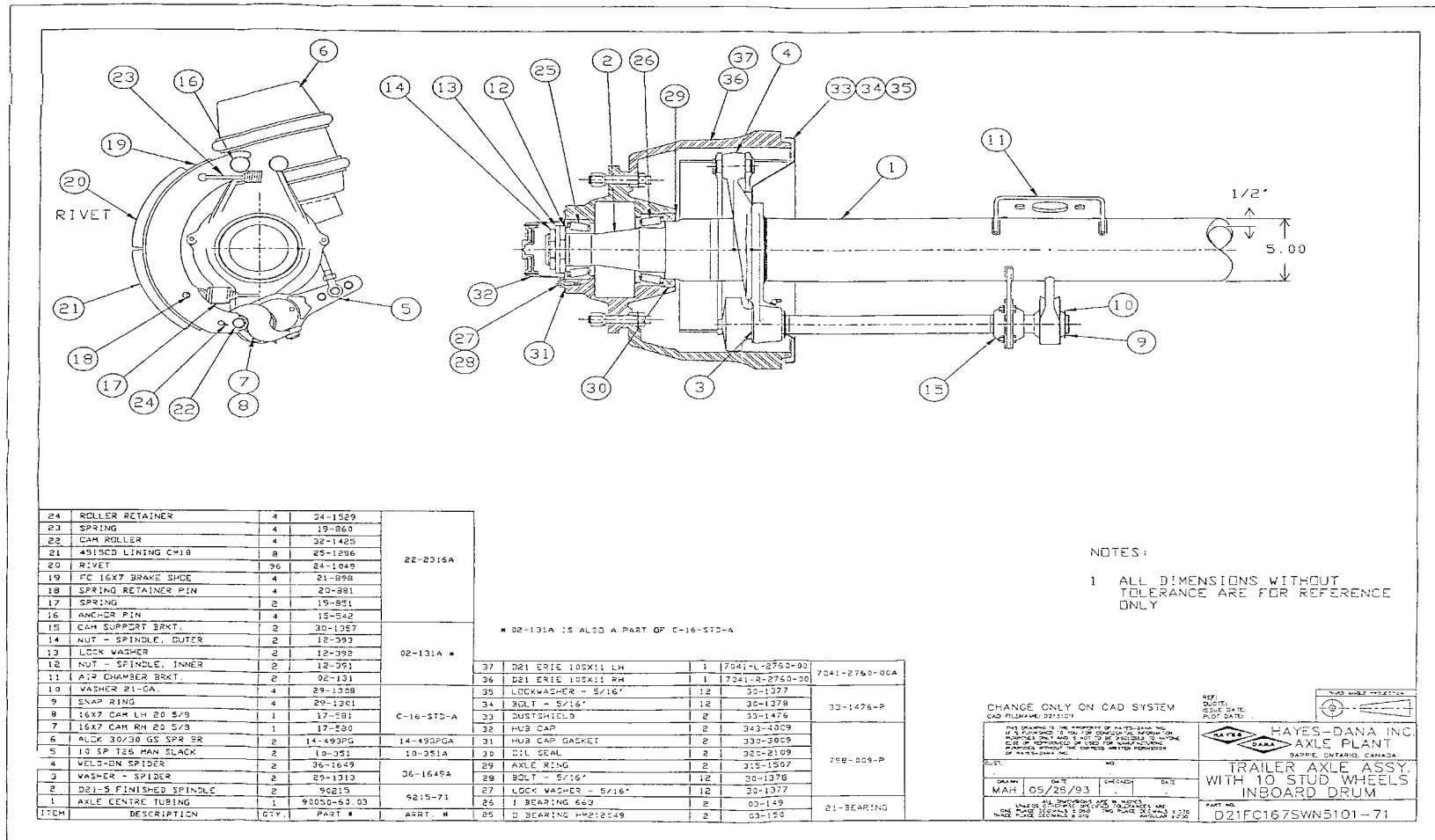
CODE	1 1/4"	1 3/4"	2"	2 1/2"	3"	4"	5"	6"	8"	10"
A	125-1	175-1	200-1	250-1	300-1	400-1	500-1	600-1	800-1	1000-1
B	125-2	175-2	200-2	250-2	300-2	400-2	500-2	600-2	800-2	1000-2
C	125-3	175-3	200-3	250-3	300-3	400-3	500-3	600-3	800-3	1000-3
D	125-4	175-4	200-4	250-4	303-4	400-4	500-4	500-4	800-4	1000-4
E	125-5	175-5	175-5	175-5	300-5	300-5	500-5	600-5	800-5	1000-5
F	125-6	175-6	175-6	250-6	300-6	300-6	500-6	600-6	800-6	1000-6
G	-	175-7	200-7	250-7	250-7	400-7	500-7	500-7	800-7	1000-7
H	125-8	175-8	200-8	250-8	250-8	400-8	500-8	500-8	800-8	1000-8
J	-	-	-	-	300-9	300-9	500-9	500-9	800-9	1000-9
K	125-10	175-10	175-10	250-10	250-10	250-10	250-10	250-10	800-10	1000-10
L	125-11	175-11	200-11	250-11	200-11	400-11	500-11	500-11	800-11	1000-11
M	125-12	175-12	200-12	250-12	300-12	400-12	500-12	600-12	800-12	1000-12
N	125-13	175-13	200-13	250-13	300-13	400-13	500-13	600-13	800-13	1000-13
P	125-14	175-14	200-14	250-14	300-14	400-14	500-14	600-14	800-14	1000-14
Q	125-15	125-15	125-15	125-15	300-15	300-15	500-15	500-15	800-15	1000-15
R	125-16	175-16	200-16	250-16	250-16	400-16	500-16	500-16	800-16	1000-16
S	125-17	175-17	203-17	250-17	300-17	400-17	500-17	600-17	800-17	1000-17
T	125-18	175-18	200-18	250-18	250-18	400-18	500-18	500-18	800-18	1000-18
U	125-19	175-19	200-19	250-19	250-19	400-19	500-19	500-19	800-19	1000-19
V	125-20	175-20	200-20	250-20	300-20	400-20	500-20	600-20	800-20	1000-20
W	125-21	175-21	200-21	250-21	250-21	400-21	500-21	500-21	-	-

**SEAL KITS**

	125 SK	SK 175	SK 200	SK 250	SK 300	SK 400	SK 500	SK 600	SK 800	SK 1000
--	--------	--------	--------	--------	--------	--------	--------	--------	--------	---------

**MOUNTINGS**

A	125-35	175-35	200-35	250-35	250-35	400-35	-	-	-	-
CB	125-36	175-36	200-36	250-36	300-36	400-36	500-36	600-36	800-36	1000-36
FB	125-37	175-37	200-37	250-37	300-37	400-37	500-37	600-37	800-37	1000-37
FR	125-38	175-38	200-38	250-38	300-38	400-38	500-38	600-38	800-38	1000-38
PB	125-39	175-39	200-39	250-39	300-39	400-39	500-39	600-39	800-39	1000-39
T	125-40	175-40	200-40	250-40	300-40	400-40	500-40	600-40	800-40	1000-40



24	ROLLER RETAINER	4	24-1529	
23	SPRING	4	19-860	
22	CAM ROLLER	4	32-1425	
21	4515CD LINING C#18	8	25-1296	
20	RIVET	96	24-1049	22-2016A
19	FC 16X7 BRAKE SHOE	4	21-898	
18	SPRING RETAINER PIN	4	23-881	
17	SPRING	2	15-851	
16	ANCHOR PIN	4	15-542	
15	CAM SUPPORT BRKT.	2	30-1357	
14	NUT - SPINDLE, OUTER	2	12-393	
13	LOCK WASHER	2	12-392	02-131A *
12	NUT - SPINDLE, INNER	2	12-391	
11	A19 CHAMBER BRKT.	2	02-131	
10	VASHER 21-GA.	4	29-1358	
9	SNAP RING	4	29-1301	
8	16X7 CAM LH 20 S/S	1	17-581	C-16-STD-A
7	16X7 CAM RH 20 S/S	1	17-580	
6	ALCK 30/30 GS SPR BR	2	14-493PG	14-493PGA
5	10 SP T65 MAN SLACK	2	10-351	10-351A
4	WELD-ON SPIDER	2	36-1649	36-1649A
3	WASHER - SPIDER	2	25-1310	
2	D21-S FINISHED SPINDLE	2	90215	5215-71
1	AXLE CENTRAL TUBING	1	90250-53.03	
ITEM	DESCRIPTION	QTY.	PART #	ARRT. #

\* 02-131A IS ALSO A PART OF C-16-STD-A

37	D21 ERIE 100X11 LH	1	7041-L-2750-00	7041-2740-00A
36	D21 ERIE 100X11 RH	1	7041-R-2750-00	
35	LOCKWASHER - 5/16"	12	30-1377	
34	BOLT - 5/16"	12	30-1378	33-1476-P
33	DUSTSHIELD	2	33-1474	
32	HUB CAP	2	343-4009	
31	HUB CAP GASKET	2	330-3009	
30	OIL SEAL	2	325-2109	798-009-P
29	AXLE RING	2	315-1507	
28	BOLT - 5/16"	12	30-1378	
27	LOCK WASHER - 5/16"	12	30-1377	
25	1 BEARING 663	2	03-149	21-BEARING
25	0 BEARING H#212549	2	03-150	

NOTES:  
1 ALL DIMENSIONS WITHOUT TOLERANCE ARE FOR REFERENCE ONLY

CHANGE ONLY ON CAD SYSTEM  
CAD RELEASE: 2013/01

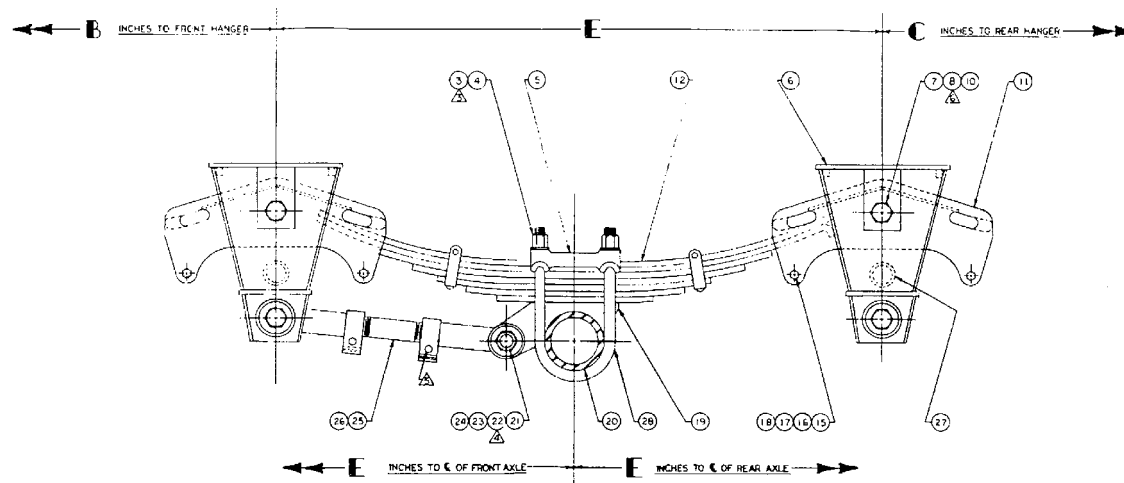
REF. DIMS. TO CENTER UNLESS NOTED  
DATE: 05/25/93  
DRAWN: MAH

HAYES-DANA INC.  
AXLE PLANT  
BARRIE, ONTARIO, CANADA

TRAILER AXLE ASSY.  
WITH 10 STUD WHEELS  
INBOARD DRUM

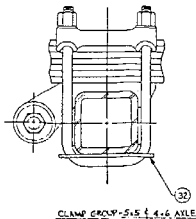
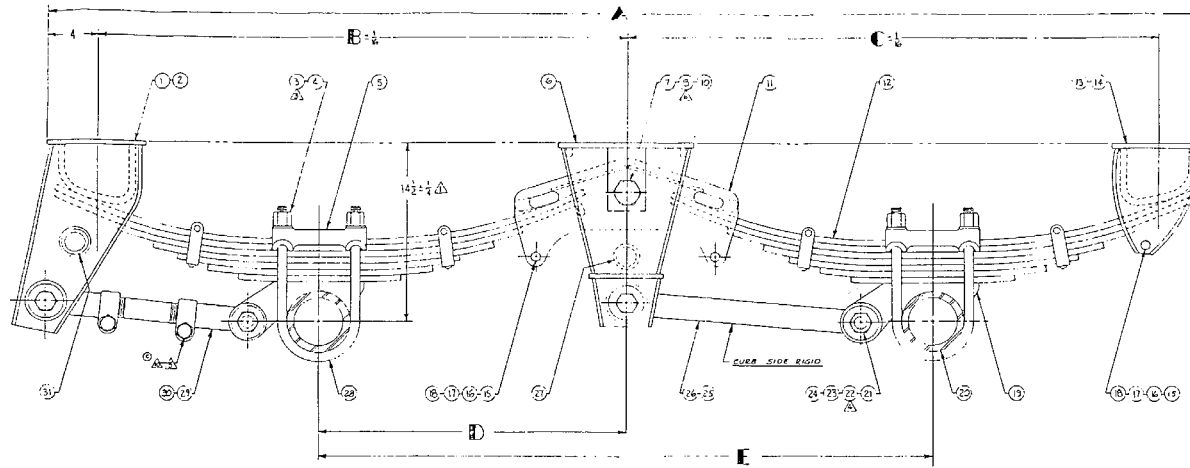
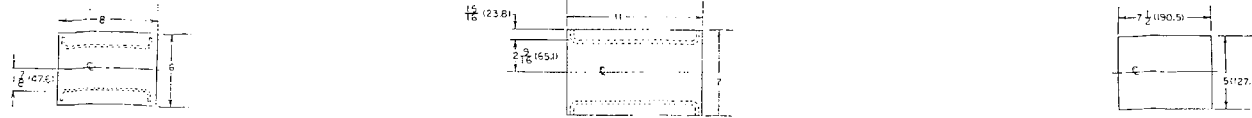
PART NO. D21FC167SWN5101-71





- NOTES**
1. THIS DRAWING WITH DRAWING 83006 PROVIDES THE REQUIRED INFORMATION TO INSTALL MODEL 218 FAB-3XX-WB-XX-X-X SHORTSPREAD, UNDERMOUNT, TRI-AXLE SUSPENSION.
  2. NOTES #12 TO #18 FOR DRAWING 83006 ALSO APPLY TO THIS DRAWING.

<b>REYCO INDUSTRIES INC.</b> BRANFORD, MISSOURI	
TITLE TRI-AXLE MODEL 218 FAB-3XX-WB-XX-X-X SHORTSPREAD, UNDERMOUNT	
DRAWN BY: MFW	CHECKED BY:
APPROVED BY:	DATE: 1/74
SCALE: 1:100	PART NO.: KJ-24-84
PART NO.: 218 FAB	QUANTITY: 8464



CLAMP GROUP-5/8, 1, 1 1/4, 1 1/2 AXLE

NOTES:

- 1. MOUNTING HEIGHT DIMENSION IS FOR MEDIUM ARCH SPRINGS.
- 2. RIGID AXLE, 1/2 HIGH SEAL & UNLOADED TANDEM.
- 3. MOUNT HANGERS SQUARE TO GROUND FOR EQUAL WEIGHT DISTRIBUTION.
- 4. TIGHTEN U-BOLT NUTS TO 300 FT. LBS. (40.7 N·M) TORQUE.
- 5. TIGHTEN TORQUE ARM END NUTS TO 100-200 FT. LBS.
- 6. TIGHTEN TORQUE ARM CLAMP NUTS TO 50 FT. LBS. (10.1 N·M) (END FABRICATED TORQUE ARM ENDS)
- 7. TIGHTEN EQUALIZER SHAFT NUT TO 575-625 FT. LBS. (78.1-85.0 N·M)
- 8. INSTALL SPRINGS WITH HOOKS TO R.H.M.
- 9. DIMENSIONS ARE IN INCHES & MILLIMETERS.
- 10. PER 50" AXLE SPAC WITH T-7452 SPRING USING T-7453 RIGID FRONT TORQUE ARM. DIM. D IS 25"; DIM. E IS 50".
- 11. TIGHTEN NUTS ON CAST ADJUSTABLE TORQUE ARM ENDS TO 175-200 FT. LBS.

\* SEE NOTE 9

	(1651)	(1745.0)	(1839.0)	(1933.0)	(2027.0)	(2121.0)
62	409	508	608	708	808	908
63	414.2	513.7	613.2	712.7	812.2	911.7
64	419.4	518.9	618.4	717.9	817.4	916.9
65	424.6	524.1	623.6	723.1	822.6	922.1
66	429.8	529.3	628.8	728.3	827.8	927.3
67	435.0	534.5	634.0	733.5	833.0	932.5
68	440.2	539.7	639.2	738.7	838.2	937.7
69	445.4	544.9	644.4	743.9	843.4	942.9
70	450.6	550.1	649.6	749.1	848.6	948.1
71	455.8	555.3	654.8	754.3	853.8	953.3
72	461.0	560.5	660.0	759.5	859.0	958.5
73	466.2	565.7	665.2	764.7	864.2	963.7
74	471.4	570.9	670.4	769.9	869.4	968.9
75	476.6	576.1	675.6	775.1	874.6	974.1
76	481.8	581.3	680.8	780.3	879.8	979.3
77	487.0	586.5	686.0	785.5	885.0	984.5
78	492.2	591.7	691.2	790.7	890.2	989.7
79	497.4	596.9	696.4	795.9	895.4	994.9
80	502.6	602.1	701.6	801.1	900.6	999.9

F	WHEEL WEIGHT 300-350 FT. LBS.	6-15-62	WES	FK
E	NAME TO W-1510 AXLES	5-23-62		FK
D	CARRIAGE WITH AXLE SPACING TO 60"	8-2-62	320	W/M
C	TAILORED NOTE 10	3-27-61	320	W/M
B	ADDED NOTE 9	2-22-65		W/M
A	NOTIFY WALKER OF ANY CHANGES	11-1-62		W/M
REV	AS SHOWN			

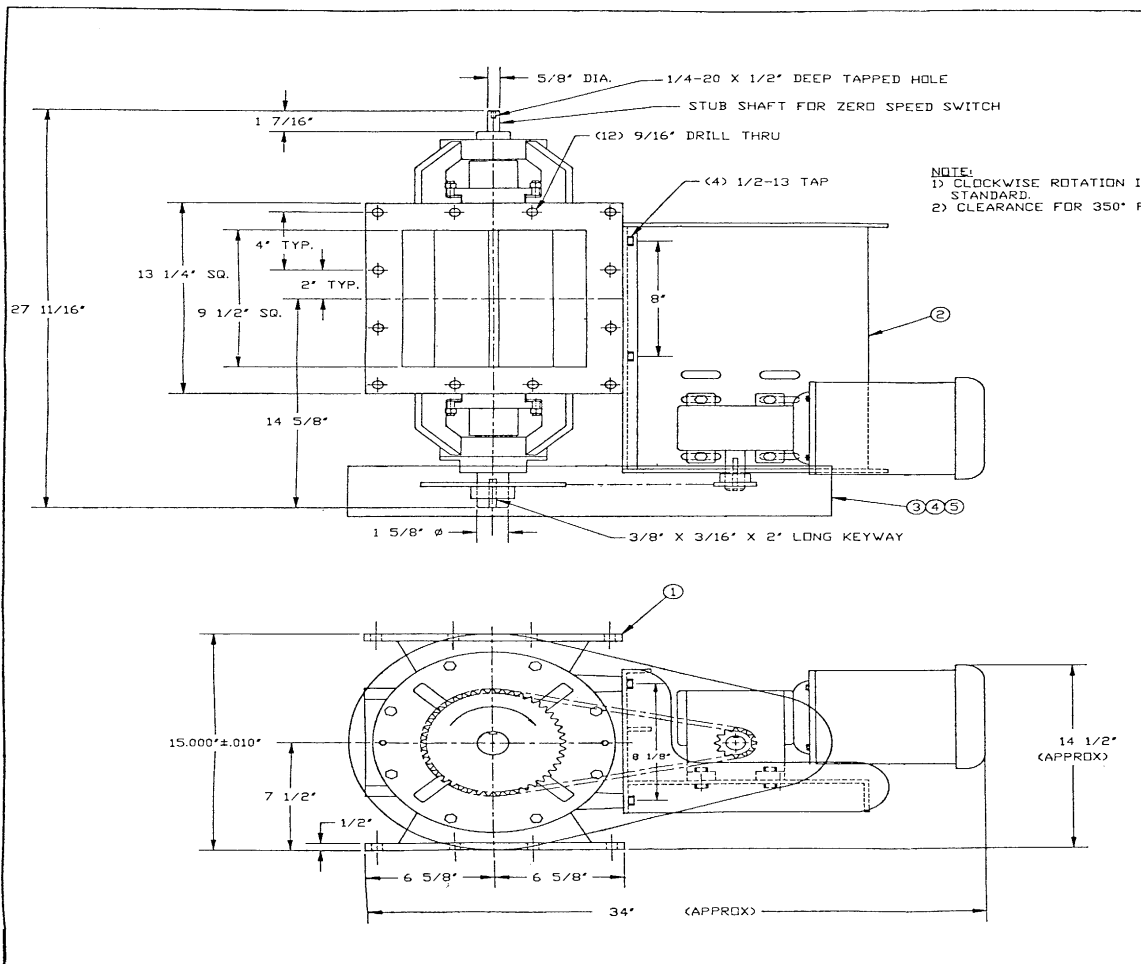
Rev. 1955

**REYCO INDUSTRIES INC.** SPRINGFIELD, MISSOURI

TITLE: TANDEM - MODEL 218-FAB-224-MB-225-KX 50"-62"  
 FULLY FABRICATED HANGERS - 50", 54", 60", 65" & 65" SPACING

DESIGNED BY	KW	DATE	1-15-62
DRAWN BY	AS	SCALE	1/4"
CHECKED BY	VAD	DATE	2-15-63
APPROVED BY			

218-FAB 83004



ITEM	PART NO.	MATERIAL	DESCRIPTION	QTY.
1	430D-331		10 X 10 HEAVY DUTY FEEDER	1
2	430D-644		10 X 10 MOTOR BASE	1
3	430D-037		10 X 10 DRIVE GUARD	1
4	430D-129		10 X 10 DRIVE GUARD BACK PLATE	1
5	450J0003		EDGE TRIM	5'

**SPECIFICATIONS**

FEEDER RPM	30
MOTOR	450H-462
TYPE	C-FACE
ENCLOSURE	TEFC
FRAME	145TC
HORSEPOWER	1 1/2
RPM	1800
ROTATION	CW
PHASE	3
CYCLES	60
VOLTAGE	230/460
REDUCER	450GB030
TYPE	924 MWT
ASSEMBLY	L
RATIO	20 : 1
ROLLER CHAIN	450FA004
A.S.A. NUMBER	60
PITCH	3/4"
LINK	450FA011
DRIVE SPROCKET	450F-0B1
NUMBER OF TEETH	11
OUTSIDE DIAMETER	3.005"
BORE	1 1/4"
KEYWAY	1/4" X 1/8"
SET SCREW	5/16-18
DRIVEN SPROCKET	450F-297
NUMBER OF TEETH	32
OUTSIDE DIAMETER	6.721"
BORE	1 5/8"
KEYWAY	3/8" X 3/16"
SET SCREW	3/8-16

CERTIFIED PRINT  
 DATE DEC. 29, 1992  
 DONALD POPOVICH  
 P.O. 31574  
 S.O. 154889  
 WM. W. MEYER & SONS, INC.  
 SKOKIE, ILLINOIS

D	1-8-93	MOTOR WAS SUPPLIED BY CUSTOMER	DRP
C	10-16-92	REDRAWN ON CAD	TD
REVISIONS			
<b>WM. W. MEYER &amp; SONS, INC.</b> SKOKIE, ILLINOIS			
10 X 10 HEAVY DUTY FEEDER AND MOTOR ASSEMBLY WITH 6 VANE BEVELLED ROTOR			
DUR. S.O. NO.		REF. S.O. NO. 154889	
DRAWN	TL	DATE	5-5-81
APPROVED		SCALE	1/4"
		DRAWING NUMBER <b>430D-332</b>	

By Order of the Secretary of the Army:

GORDON R. SULLIVAN  
General, United States Army  
Chief of Staff

Official:

  
MILTON H. HAMILTON  
Administrative Assistant to the  
Secretary of the Army  
84223

Distribution:

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DATE SENT

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BE EXACT... PIN-POINT WHERE IT IS

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
----------	------------	------------	-----------

TEAR ALONG PERFORATED LINE

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SIGN HERE:

DA FORM 2028-2 JUL 79

PREVIOUS EDITIONS ARE OBSOLETE.

P.S.—IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

# THE METRIC SYSTEM AND EQUIVALENTS

## NEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches  
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches  
 1 Kilometer = 1000 Meters = 0.621 Miles

## WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces  
 1 Kilogram = 1000 Grams = 2.2 lb.  
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

## LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces  
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

## SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches  
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet  
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

## CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches  
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

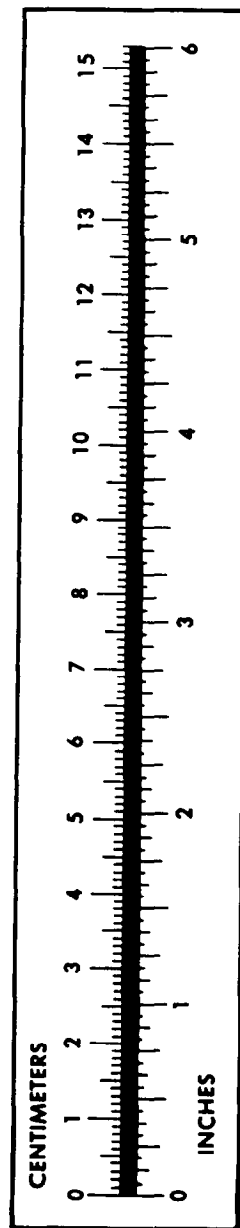
## TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$   
 212° Fahrenheit is equivalent to 100° Celsius  
 90° Fahrenheit is equivalent to 32.2° Celsius  
 32° Fahrenheit is equivalent to 0° Celsius  
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

## APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



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