



MODEL 760  
EARTH  
AUGER

PARTS LIST MANUAL

# J&M **MODEL 760**

## **EARTH AUGER**

WITH MODEL 108 POWER UNIT

Serial Numbers: 600001 & Above

OM-760-0599



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## PREFACE

This manual was prepared to acquaint the owner, operator and serviceman with the construction and servicing of the J&M Model 760 Earth Auger. We strongly suggest that this manual be studied carefully and understood by all personnel involved in operating or performing maintenance work on the auger. J&M equipment is engineered to provide reliable operation and a long service life under normal operating conditions. Equipment reliability and service life can be improved by following the maintenance procedures in this manual.



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## WARRANTY

### J&M FOUNDATION EQUIPMENT STANDARD WARRANTY

J&M Foundation Equipment (J&M) warrants new products sold by it to be free from defects in material or workmanship for a period of 90 days after date of delivery to the first user and subject to the following conditions:

J&M's obligation and liability under this WARRANTY is expressly limited to repairing or replacing, at J&M's option, any parts which appear to J&M, upon inspection, to have been defective in material or workmanship. Such parts shall be provided at no cost to the user, at the business establishment of J&M or the authorized J&M distributor of the product, during regular working hours. This WARRANTY shall not apply to component parts or accessories of products not manufactured by J&M and which may carry the warranty of the manufacturer thereof, or to normal maintenance (such as engine tune-up) or to normal maintenance parts (such as oil filters). Replacement or repair parts installed in the product covered by this WARRANTY are warranted only for the remainder of the warranty, as if such parts were original components of said product. J&M COMPANY MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS, FOR ANY PARTICULAR PURPOSE.

J&M's obligation under this WARRANTY shall not include any transportation charges, cost of installation, duty, taxes or any other charges whatsoever, or any liability for direct, indirect, incidental, or consequential damage of delay. If requested by J&M products or parts for which a warranty claim is made are to be returned, transportation prepaid to J&M. Any improper use, including operation after discovery of defective or worn parts, operation beyond rated capacity, substitution of parts not approved by J&M or any alteration or repair by others in such manner as in J&M's judgment affects the product materially and adversely, shall void this WARRANTY.

NO EMPLOYEE OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY UNLESS SUCH CHANGE IS MADE IN WRITING AND SIGNED BY AN OFFICER OF J&M.



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### SAFETY PRECAUTIONS

Safety is basically common sense. There are standard safety rules, but each situation has its own peculiarities which can not always be covered by rules. Therefore, your experience and common sense will be your best guide to safety. Be ever watchful for safety hazards and correct deficiencies promptly.

Use the following safety precautions as a general guide to safe operations:

1. Read this manual thoroughly before operating or working on the equipment.
2. Read and follow any safety instructions in the CATERPILLAR engine operators manual.
3. Only well trained and experienced personnel should attempt to operate or maintain this equipment.
4. Never adjust, lubricate or repair the unit when it is in operation, or lifted above ground level.
5. Never remove, paint over or cover warning or safety labels. If labels become damaged or unreadable, replace immediately.
6. All personnel should wear approved safety clothing, including **HARD HATS, SAFETY SHOES, SAFETY GLASSES** and **HEARING PROTECTION** when in the vicinity of this machinery.
7. Do not stand any closer to this equipment than necessary when it is in operation. Parts may loosen and fall. Dirt and rocks may fall from flighting. Parts may loosen and fall. Never stand under operating, or elevated, equipment.
8. When maintaining or repairing the equipment, never substitute parts not supplied, or approved in writing, by J&M
9. Do not weld, or flame cut, on this equipment.
10. Never use or store flammable liquids on or near the engine.
11. Insure that all lifting equipment, including cranes, wire rope, slings, hooks, shackles, etc., are properly sized for the worst case loads anticipated during operations.
12. If there are any questions about the weights, specifications, or performance of the unit, contact J&M before handling or operating the equipment.
13. If the equipment is to be used for anything other than drilling plumb holes, contact J&M before using the unit.
14. Check wire rope clips for tightness, and check wire ropes for wear, daily.
15. Insure that ground vibrations will not damage or collapse adjacent structures or excavations.
16. Remove all tools, parts and electrical cords before starting the unit.
17. When operating in an enclosed area, pipe exhaust fumes outside. Continued breathing of exhaust fumes may be fatal.
18. When servicing batteries, do not smoke or use open flames in the vicinity. Batteries generate explosive gas during charging. There must be proper ventilation when charging batteries.
19. When filling fuel tank, do not smoke or use open flame in the vicinity.
20. If abnormal equipment operation is observed, discontinue use immediately and correct the problem. Do not leave the equipment control pendant (radio control) unattended.



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SAFETY PRECAUTIONS (CONTINUED)

21. Store oily rags in approved containers, and away from engine exhaust system.
22. Make sure that the auger rotation switch is in NEUTRAL before starting the power unit engine.
23. Do not adjust, or set, hydraulic pressures higher or lower than those specified in this manual.
24. Never operate this equipment with hydraulic hoses that are damaged or "kinked". Replace damaged hoses immediately.
25. Do not lift, or support, hydraulic hoses with wire rope slings.
26. Never attempt to connect quick disconnects when the power unit is running.
27. Do not pull on, or attempt to move equipment, with hydraulic hoses.
28. Do not attempt to locate hydraulic leaks with your hands. High pressure hydraulic leaks can penetrate the skin, causing severe damage, blood poisoning and infection. Do not attempt to repair leaks while the equipment is in operation.
29. Do not attempt to tighten, or loosen, fittings or hoses when the machine is in operation.
30. Power unit must always be placed on level, stable, ground.
31. Do not remove power unit heat shields, or operate power unit without heat shields. Severe fires may result.
32. A properly maintained fire extinguisher, suitable for oil fires, must be kept in the immediate vicinity of equipment operations.
33. When moving or transporting this equipment, insure that the vehicle or vessel is of sufficient capacity to handle the load, and that the equipment is properly tied down.
34. When moving or transporting this equipment, be sure that quick disconnect dust caps are tight, and that cap safety cables are in place. Be sure that all equipment parts are tight, or properly secured, before shipment. Unsecured parts may vibrate loose and fall, during transport, causing injury or property damage.
35. Keep crane boom, fighting, leads, wire rope and other equipment at least 15' (5M) from electrical power lines, transformers and other electrical equipment, or at such distance as required by applicable safety codes.
36. Rounded or damaged bolt heads or nuts should be replaced so that proper torque values may be obtained. Proper torque values are necessary to prevent parts on this equipment, leads and crane boom from loosening and falling. Refer to Torque Chart, in this manual, for proper values.
37. Make sure that the crane and leads have sufficient capacity to handle the auger, fighting and dirt expected on the job. High down pull forces can be generated if the fighting screws itself into the ground.
38. Insure that the leads are adequately secured against rotation before starting drilling operations.
39. When extracting fighting from ground, check crane load/radius tables to be sure crane capacity is adequate for maximum allowable extraction pull.
40. When extracting fighting, or any other drilling operations, always be sure that the crane line is aligned with the centerline of the fighting. Do not side load crane boom or auger. Dangerous crane boom, or auger, damage may result.



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SAFETY PRECAUTIONS (CONTINUED)

41. When extracting flighting, do not exceed the rated capacity of the auger.
42. Keep hands away from rotating flighting, auger shaft and rotary joint.
43. Keep hands, feet and tools well clear of flighting guides.
44. API flighting connectors must be secured to prevent unscrewing during reverse (ccw) rotation. Flighting may fall.
45. Do not allow clothing, hoses, ropes, etc. to become entangled in, or wrap around, rotating flighting, auger shaft or rotary joint.
46. When drilling angled or horizontal holes, insure that the leads, and crane boom, have sufficient bending strength to handle the worst case load. Consult J&M.

REMEMBER, SAFETY IS EVERYONE'S BUSINESS.

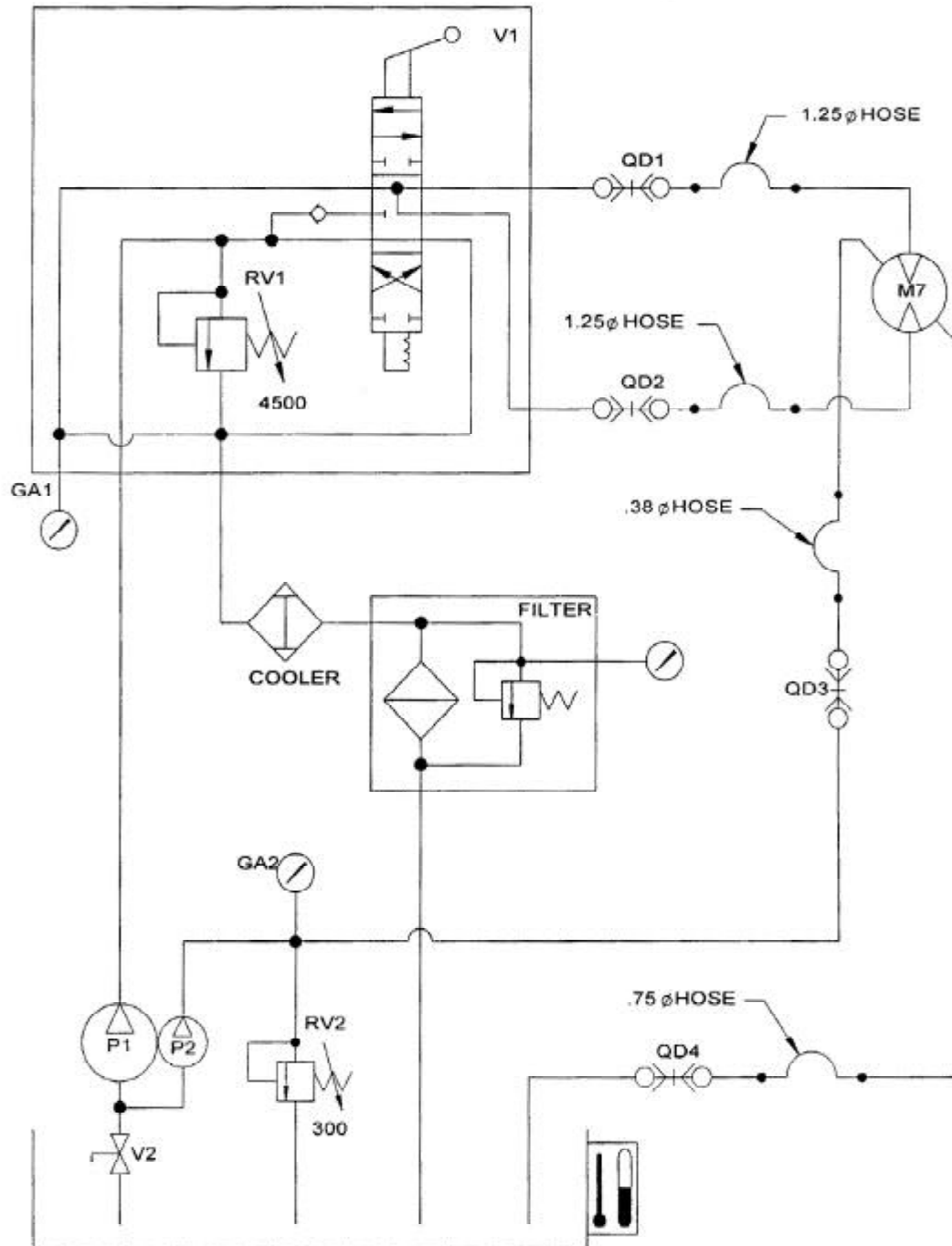


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# PARTS LIST

HYDRAULIC CIRCUITRY

HYDRAULIC SCHEMATIC



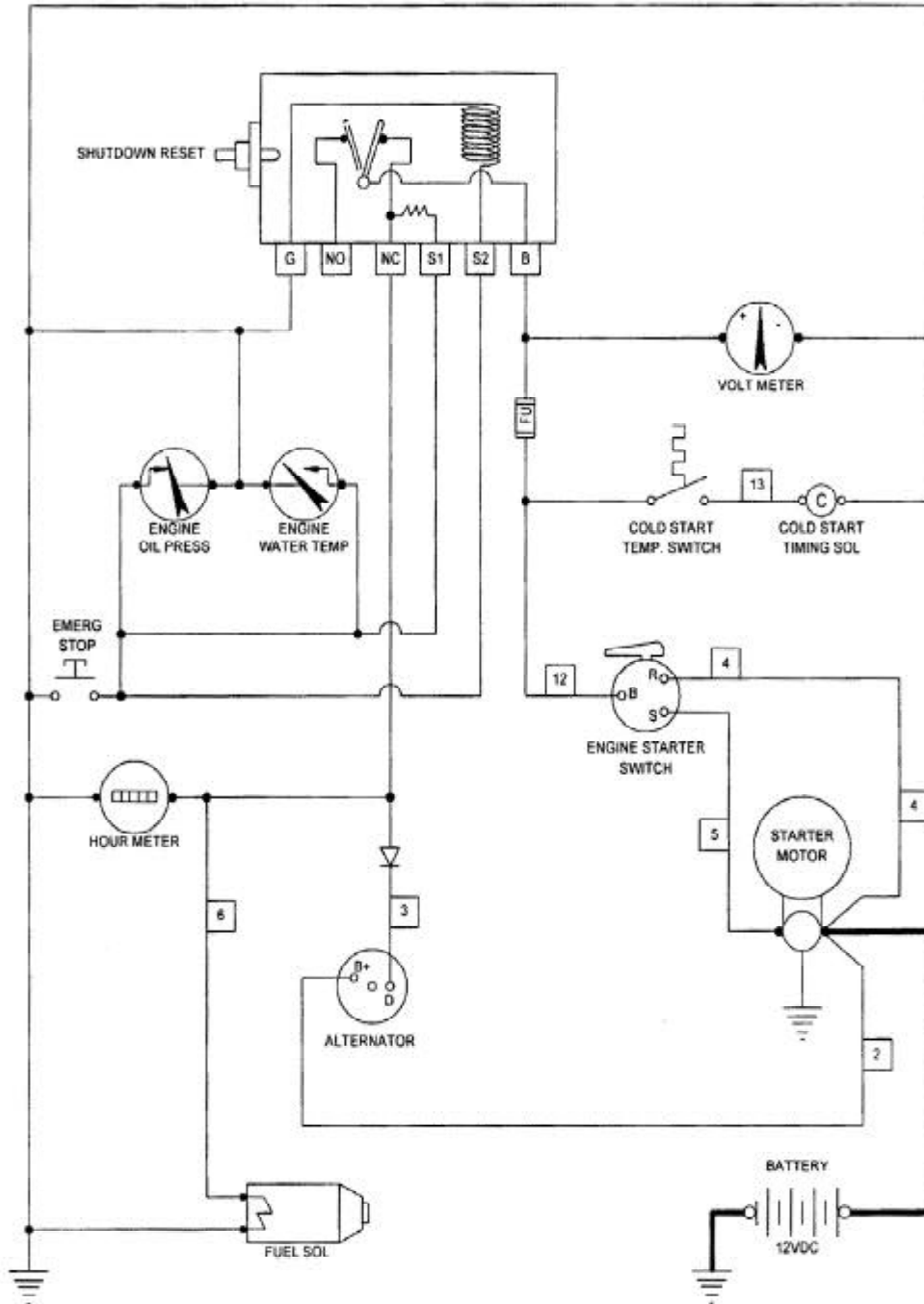


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# PARTS LIST

ELECTRICAL CIRCUITRY

ELECTRICAL SCHEMATIC







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# PARTS LIST

## GENERAL DATA

### ABBREVIATIONS

The abbreviations shown below are used throughout the parts lists and various other parts of the manual.

ASM.	Assembly
BHCS	Button Head Cap Screw
Cyl.	Cylinder
DC	Direct Current
FHCS	Flat Head Cap Screw
FLCS	Flanged Head Cap Screw
Gr	Grade
HC	High Collar
HHCS	Hex Head Cap Screw
HHPP	Hex Head Pipe Plug
HSSS	Hex Socket Set Screw
Hyd.	Hydraulic
ID	Inside Diameter
Lg.	Long
mm	Millimeter
Mtg.	Mounting
NPT.	National Pipe Thread
OD	Outside Diameter
PHMS	Phillips Head Machine Screw
P/N	Part Number
Qty.	Quantity
RHMS	Round Head Machine Screw
Sch.	Schedule
SHCS	Socket Head (Allen) Cap Screw
SHPP	Socket Head Pipe Plug
SHSS	Socket Head Shoulder Screw
S/N	Serial Number
Sol.	Solenoid
UNF	Unified National Fine thread
UNC	Unified National Course thread



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# PARTS LIST

## VII. GENERAL DATA

### SCREWS AND BOLTS

1. Practically all connections on the unit are made with socket head (Allen) cap screws. These high-strength screws are available at most industrial supply houses.
2. Screws and bolts are designated in the PARTS LIST in abbreviated form. (Refer to the previous page, for specific abbreviations). Listed below is a typical screw description: .50 - 13 UNC x 1.50 Lg SHCS

.50 = Diameter  
1.50 Lg = Length

13 UNC = Threads Per Inch  
SHCS = Screw Type Abbreviation

### SERIAL NUMBER LOCATIONS

1. The following J&M units are serial numbered separately:
  - a. Earth Auger
  - b. Power Unit
2. In addition to the serial number plate itself, the serial number is stamped into each unit in one or more places as follows:
  - a. Earth Auger stamped twice - on the motor mounting plate, on either side of the hydraulic motor.
  - b. Power unit stamped twice - once on the upper side of the hydraulic oil reservoir below the control valve, once on sub-base near the battery.



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## PARTS LIST

### ORDERING PARTS

#### PROCEDURE

1. When ordering parts, be sure to include the model and serial number of the unit or component. Confirm all telephone orders immediately to avoid duplicating shipment.
2. ORIGINAL EQUIPMENT; Where component serial numbers are given, these apply only to equipment and components originally furnished with the unit. Where equipment has been changed or upgraded these numbers may not be an adequate description.
3. SHIPMENT; Specify shipping address, phone number, billing address and method of shipment. UPS and air express shipments must have street address for delivery. All shipments will be made freight collect unless instructed otherwise.
4. SHORTAGES; Claims for shortages, damage or errors should be made immediately upon receipt of parts. No responsibility will be assumed for delay, damage or loss of material while in transit. Broken, damaged or lost material should be refused or a full description made of damage or loss to the carrier agent on the freight or express bill.
5. RETURN OF PARTS; If for any reason you desire to return parts to the factory or to any distributor from whom these parts were obtained, you must first secure permission to return the parts. Shipping instructions will be given along with this permission. A fifteen percent handling charge must be assessed against the returned shipment unless an error is made by the factory or by the distributor when filling your order.



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# PARTS LIST

## VIII. ORDERING PARTS

### B. FITTING DESCRIPTION KEY

A Fitting Description code is used to describe all fittings in the Parts Identification section of this manual. The key below explains the structure of the code number in detail.

<p><u>FITT</u> 2 L - 16 M 12 J 00 0 - 00L 0 0 0 1</p>	<p><u>SELECTOR INDEX</u> 2 - INCH FITTING 9 - METRIC FITTING</p> <p><u>CONFIGURATION OR SHAPE OF FITTING</u> S - STRAIGHT FITTING L - 90 Deg. ELBOW V - 45 Deg. ELBOW T - TEE C - CAP P - PLUG U - UNION X - CROSS (FOURTH END FITTG REQ'D.)</p> <p><u>FIRST END SIZE</u> * IN 1/16THS OF AN INCH (INDEX 2) IN MILLIMETERS (INDEX 9) SEE GENERAL SPECIFICATION SHEET FOR SEQUENCE OF ORDER</p> <p><u>FIRST END FITTING STYLE</u> SEE FITTING STYLE SELECTOR CHART SC-1</p> <p><u>SECOND END SIZE</u> IF APPLICABLE - SEE FIRST END SIZE</p> <p><u>SECOND END FITTING STYLE</u> IF APPLICABLE - SEE FIRST END FITTING STYLE</p> <p><u>THIRD END SIZE</u> IF APPLICABLE - SEE FIRST END SIZE</p> <p><u>THIRD END FITTING STYLE</u> IF APPLICABLE - SEE FIRST END SIZE</p> <p>* EXCEPTIONS 90 = 10"      96 = 6" 92 = 12"      98 = 8" 94 = 14"      99 = NON CODE SIZE</p>	<p><u>MATERIAL</u> 1 - CARBON STEEL 2 - BRASS 4 - STAINLESS STL 5 - AAR MAL IRON 6 - MALEABLE IRON 8 - FORGED STEEL</p> <p><u>SPECIAL NOTATIONS</u></p> <p><u>PRESSURE RATING</u> 0 - NONE 1 - 125 LB. 3 - SCH 40 4 - SCH 80</p> <p><u>INSTALLATION AID OR STYLE OF HEAD</u> 0 - NOT APPLICABLE H - REGULAR HEX Q - SQUARE HEAD (EXT.) R - SQUARE HEAD (INT.) S - HEX HEAD (INT SOCKET) T - HEX HEAD (EXT.)</p> <p><u>LENGTH CODE</u> (ELBOWS &amp; NIPPLES) _L - LONG (ELBOW) _X - EXTRA LONG (ELBOW) _C - CLOSE (NIPPLE)</p> <p>PIPE NIPPLES (LONG) ONLY IN DEC. INCHES FOR INDEX 2 050 = 5.0 INCHES 105 = 10.5 INCHES</p> <p>IN MILLIMETERS FOR INDEX 9 120 = 12.0 MILLIMETERS 084 = 8.4 MILLIMETERS</p> <p><u>FOURTH END SIZE &amp; FITTING STYLE</u> (CROSSES ONLY) SEE FIRST END FITTING SIZE OR END STYLE</p>
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# PARTS LIST








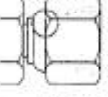

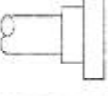
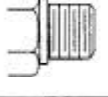
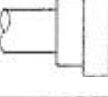
## VIII. ORDERING PARTS

### B. FITTING DESCRIPTION KEY (CONTINUED)

#### FITTING STYLE SELECTOR CHART

SC-1

FOR END FITTING STYLE SELECTION

<b>M</b>		JIC MALE 37 Deg. FLARE	<b>J</b>		JIC FEMALE 37 Deg. FLARE ( & SWIVEL )
<b>P</b>		MALE PIPE NPT	<b>Q</b>		FEMALE PIPE NPTF
<b>R</b>		S.A.E. MALE O-RING ( & ADJUSTABLE )	<b>K</b>		S.A.E. FEMALE O-RING
<b>B</b>		JIC MALE 37 Deg. FLARE BULKHEAD	<b>N</b>		FEMALE PIPE NPSM-SWIVEL
<b>D</b>		MALE PIPE NPT SWIVEL	<b>F</b>		SPLIT FLANGE 3000 PSI. CODE 61
<b>S</b>		B.S.P. MALE PIPE	<b>H</b>		SPLIT FLANGE 6000 PSI. CODE 62



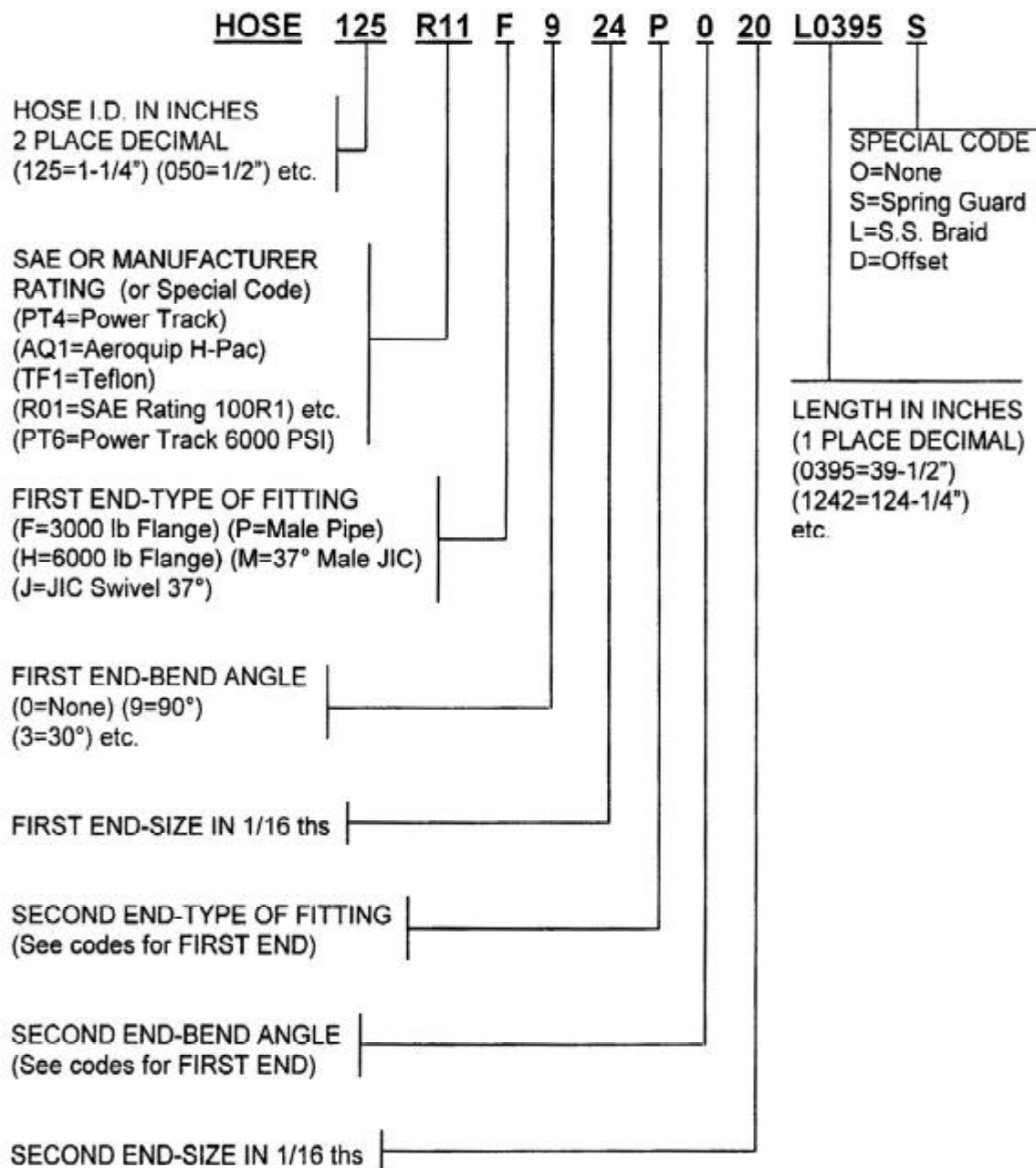
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# PARTS LIST

## VIII. ORDERING PARTS

### C. HOSE DESCRIPTION CODE

The HOSE DESCRIPTION CODE is a 24 digit number enabling easier and quicker identification whenever a hose replacement is desired. The key below explains the structure of the coded number in detail.



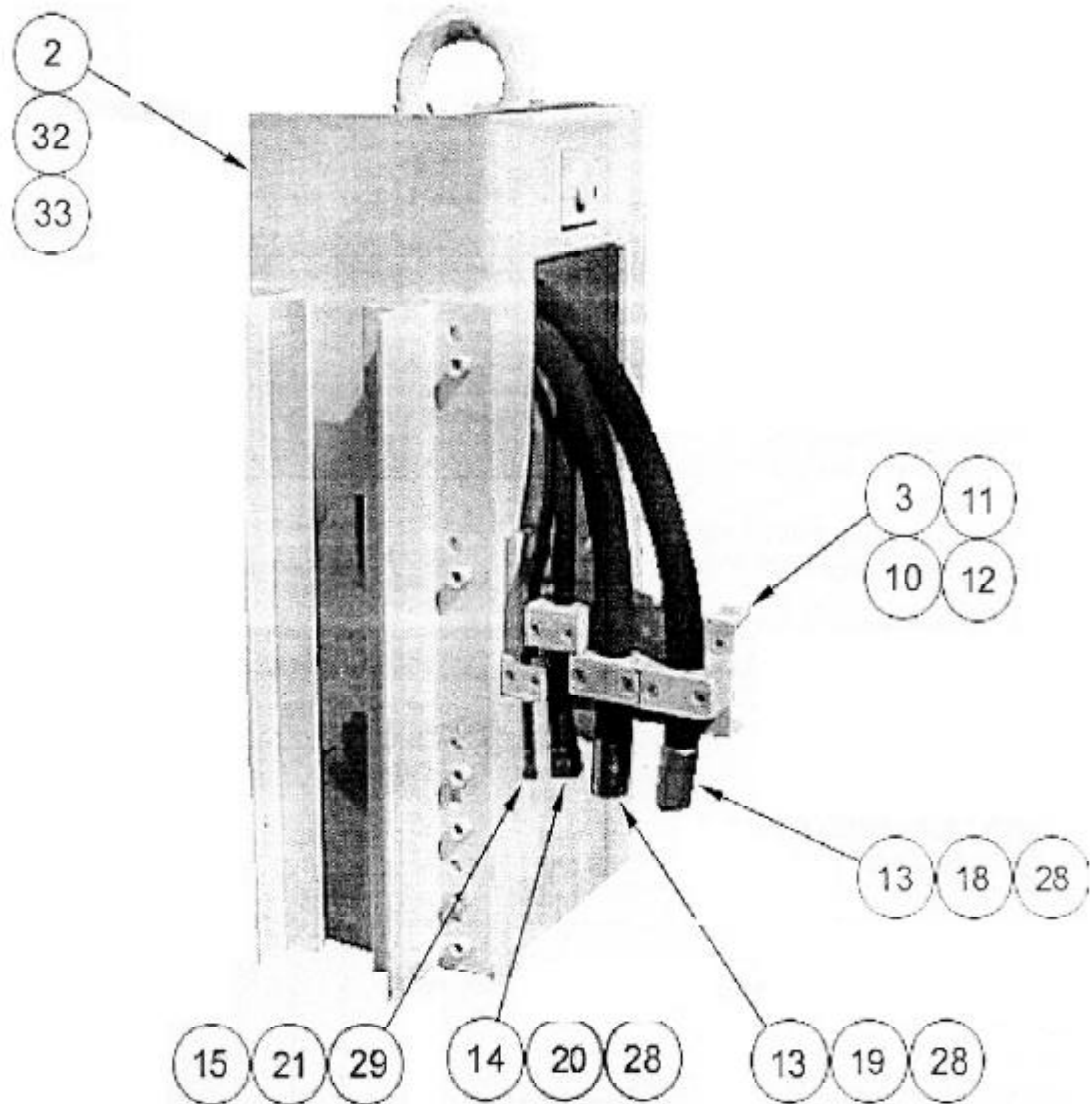


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# PARTS LIST

EARTH AUGER ASM

175033



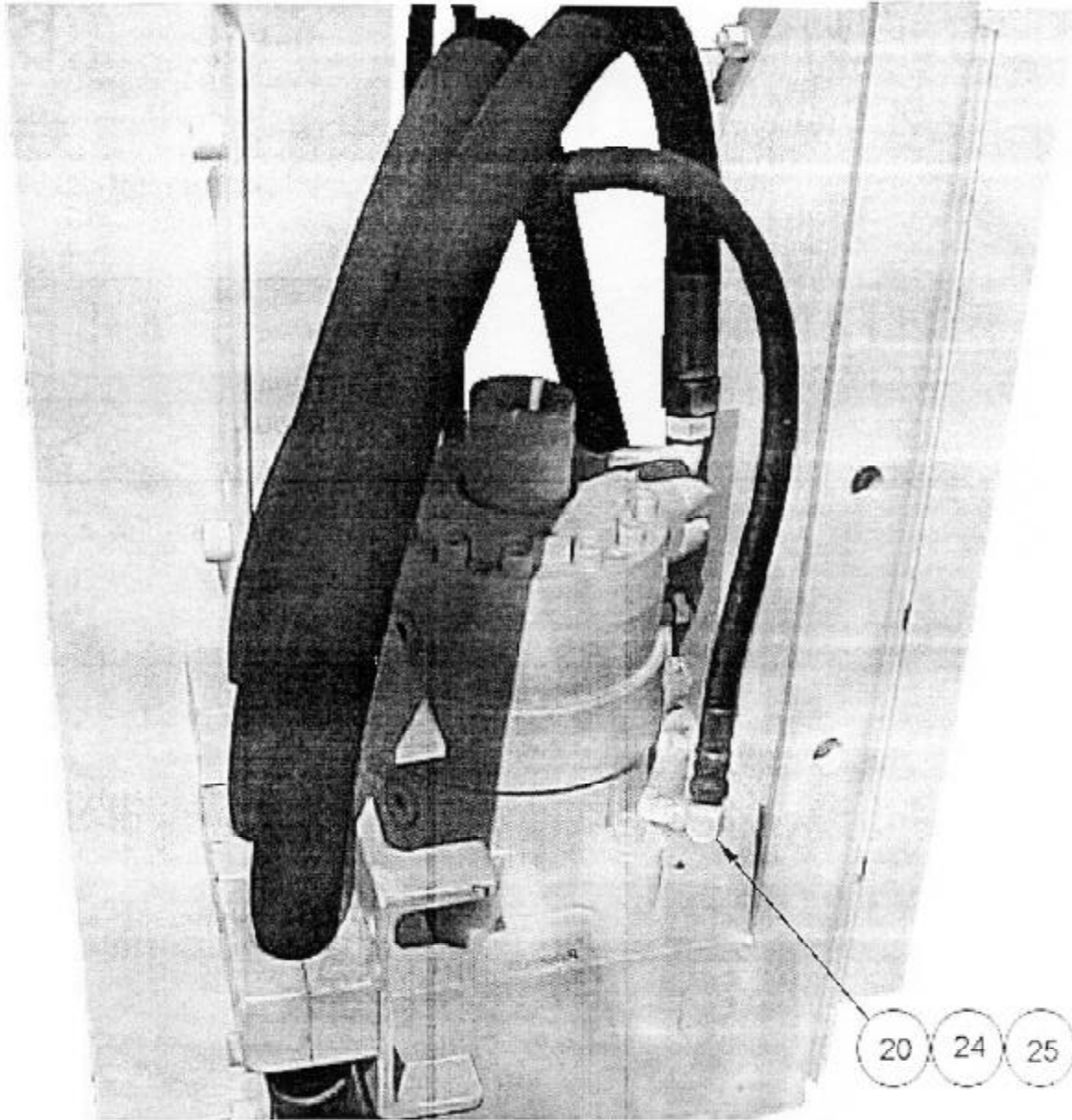


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# PARTS LIST

EARTH AUGER ASM

175033





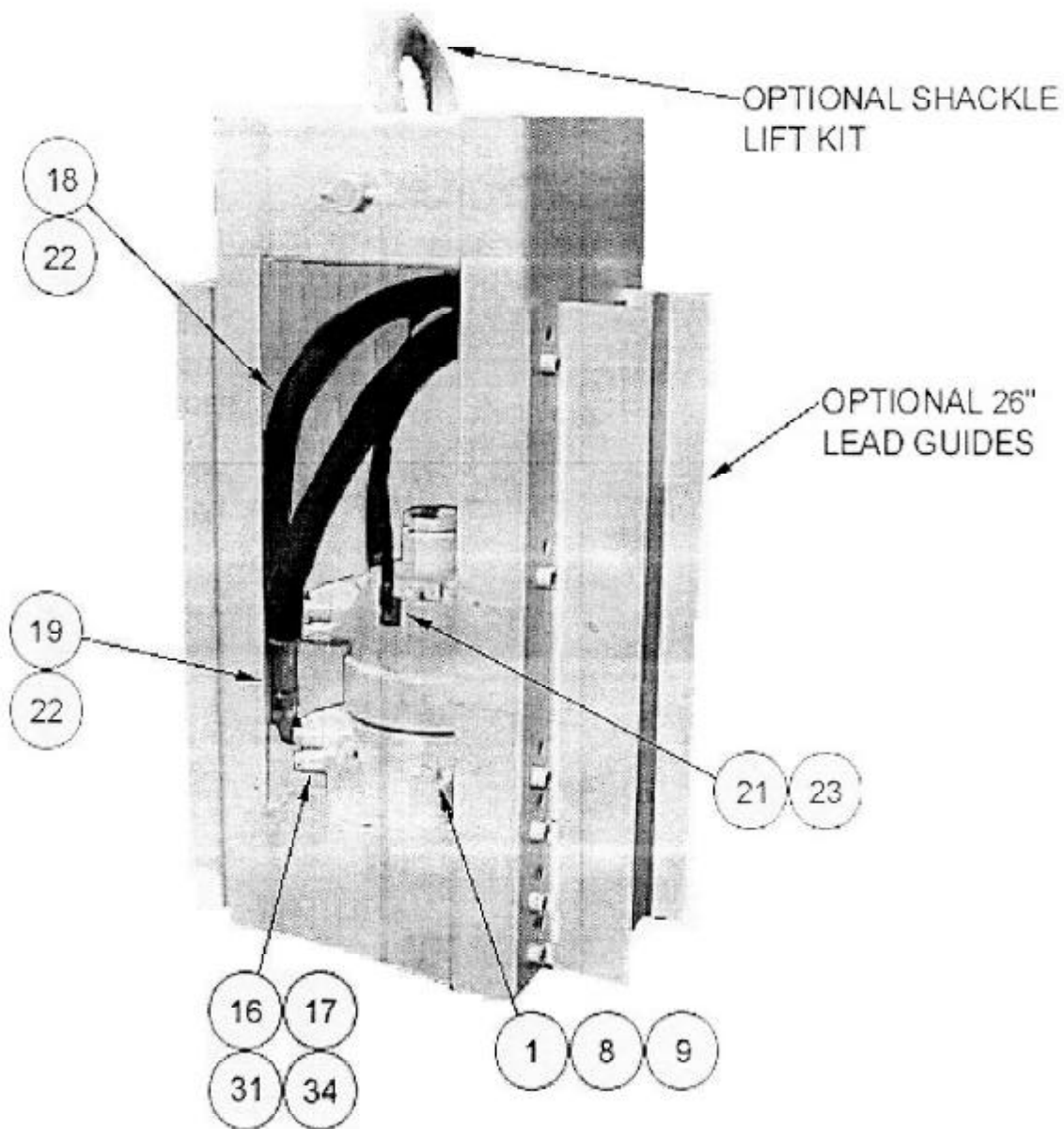


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# PARTS LIST

EARTH AUGER ASM

175033



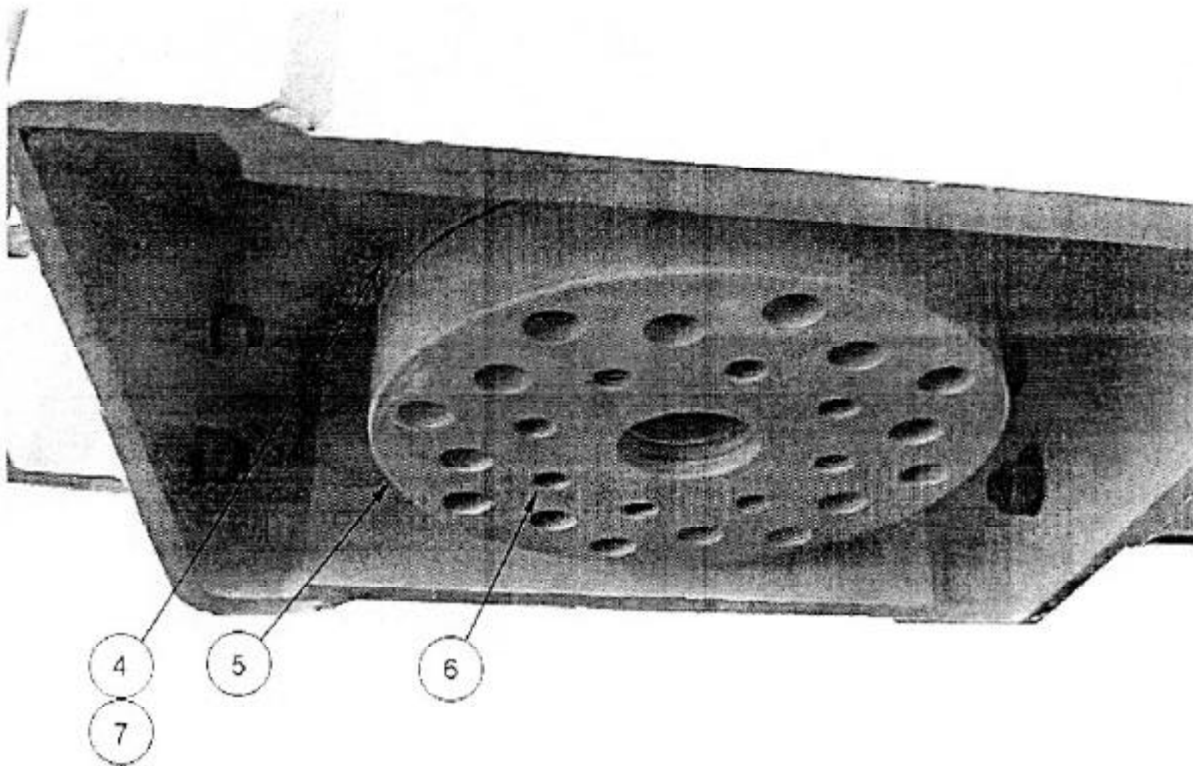


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# PARTS LIST

EARTH AUGER ASM

175033





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## PARTS LIST

EARTH AUGER ASM

175033

Item	Part Number	Qty.	Description
1	170503	1	Motor Hollow Shaft
2	170305	1	Frame
3	170317	1	Hose Bracket
4	170319	1	Flange - Splined
5	170321	1	Flange - Threaded
6	170505	8	.75-10UNC X 1.00 Set Screw (Note)
7	170325	1	Flange Seal
8	120171	6	.75-10 X 4.5 Lg SHCS
9	100782	6	.75-10 Flange Nut
10	100213	2	1.0-8 X 2.50 Lg SHCS Loc Wel
11	400051	2	1.0-8 Hex Nut
12	100209	2	1.00 Lock Washer Medium
13	100009	2	Hose Clamp
14	100013	1	Hose Clamp
15	100015	1	Hose Clamp
16	110243	4	#24 Split Flange Half 6000
17	170489	8	.63-11 UNC X 2.00 Lg HHCS
18	170491	1	HOSE125PT4J020P020L05700
19	170493	1	HOSE125PT4J020P020L06100
20	170495	1	HOSE075R01J012P012L05000
21	170497	1	HOSE038R02J006J006L05200
22	110245	2	FITT2L-24H20M000-000H001
23	170499	1	FITT2L-08R06M000-0000001
24	170501	1	FITT2S-08R12M000-0000001
25	100769	1	FITT2L-12M12J000-000H001
26	170395	8	.88-9 UNC X 5.50 Lg SHCS
27	400911	8	.875 Hi Collar Lock Washer
28	100011	6	.50-13 X 2.0 Lg SHCS
29	100143	2	.375-16 X 1.25 Lg SHCS Loc Wel
30	400273	1	Gasket
31	100007	8	.625 Lock Washer Medium
32	100299	1	Primer/Gal
33	100298	1	J&M Green Paint
34	100037	2	2-222 O-Ring 90 Duro

Note: Torque Item 6 - .75-10UNC X 1.00 Lg. Set Screw to 166 Ft-Lbs. (22.9 Kg-M).

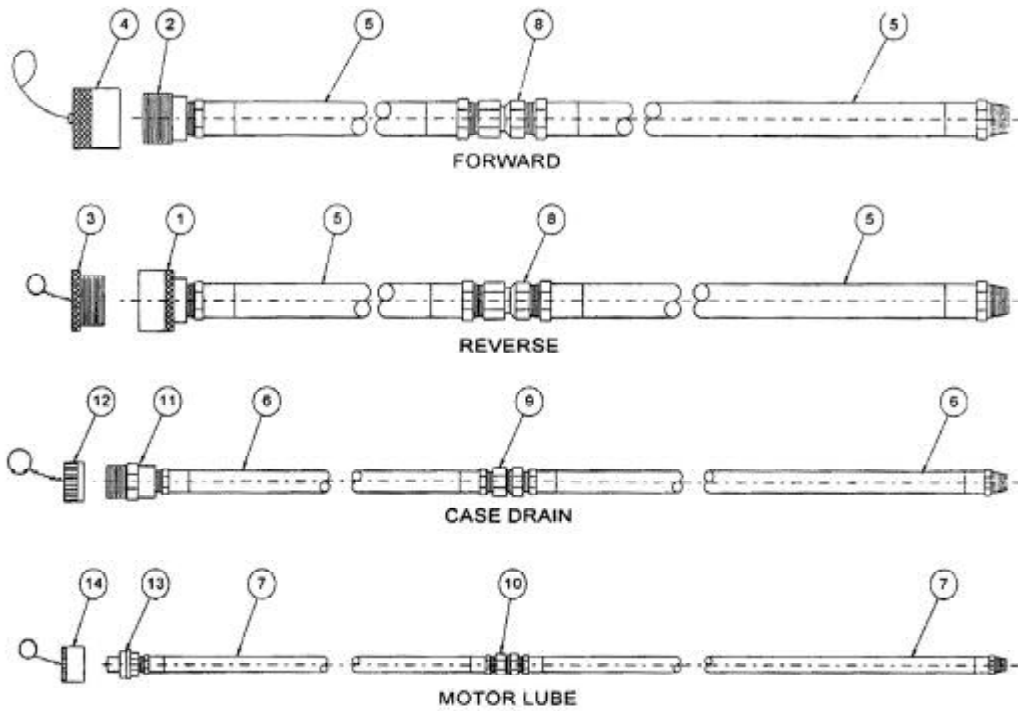


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# PARTS LIST

HOSE ASSEMBLIES - INTERCONNECTING

175031





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## PARTS LIST

### HOSE ASSEMBLIES - INTERCONNECTING

175031

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	170413	1	1.25 Female Disconnect
2	170415	1	1.25 Male Disconnect
3	170417	1	1.25 Dust Plug
4	170419	1	1.25 Dust Cap
5	100233	4	HOSE125PT4P020P020L60000
6	140685	2	HOSE100PT4P016P016L62000
7	100247	2	HOSE038R02P006P006L62000
8	100235	2	FITT2S-20Q20N000-000H001
9	140357	1	FITT2S-16Q16N000-000H001
10	100249	1	FITT2S-06Q06N000-000H001
11	120023	1	1" Male Disconnect
12	120029	1	1" Dust Cap
13	100245	1	.375 Male Disconnect
14	100257	1	.375 Dust Cap

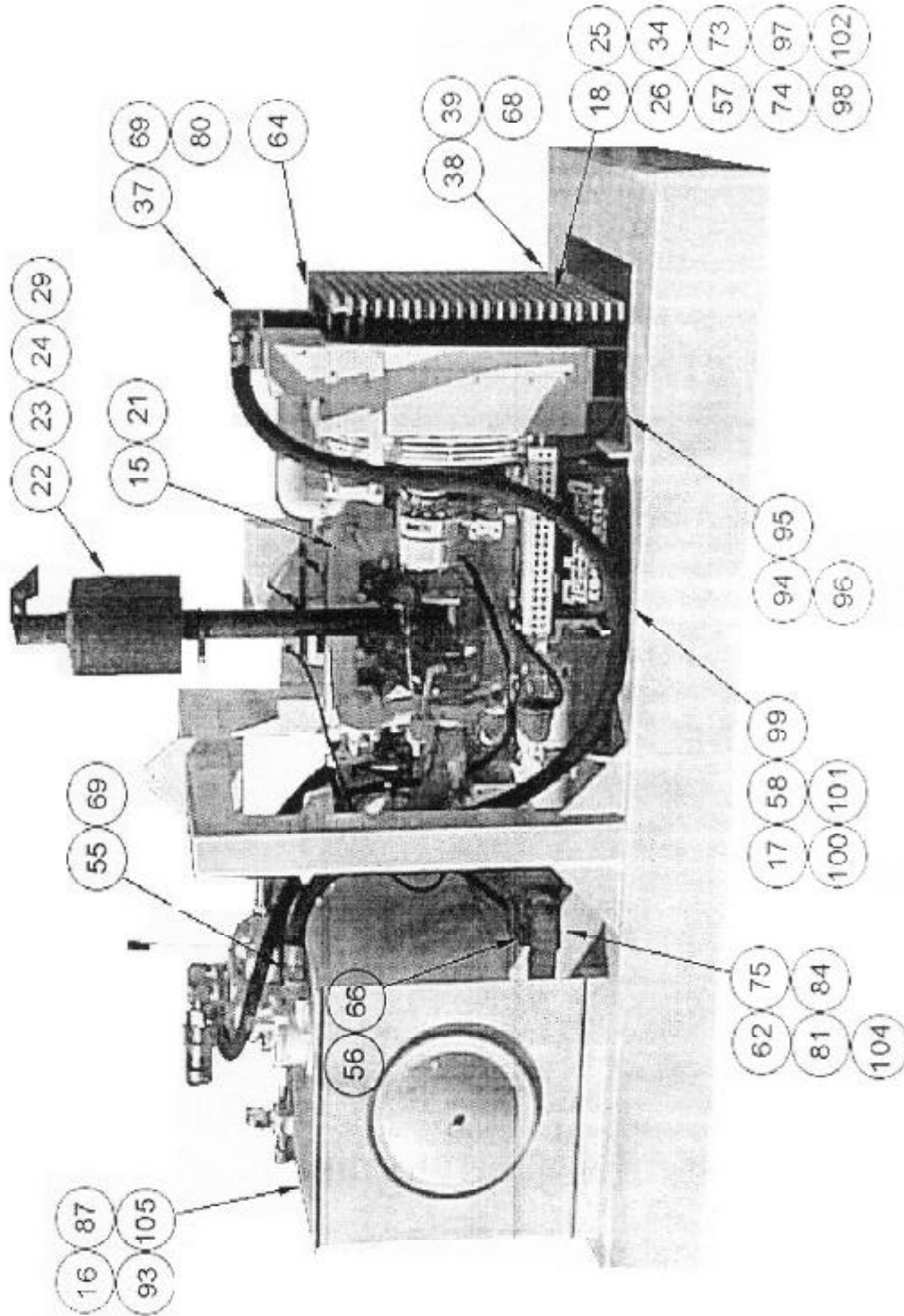


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# PARTS LIST

POWER UNIT ASSEMBLY

175029



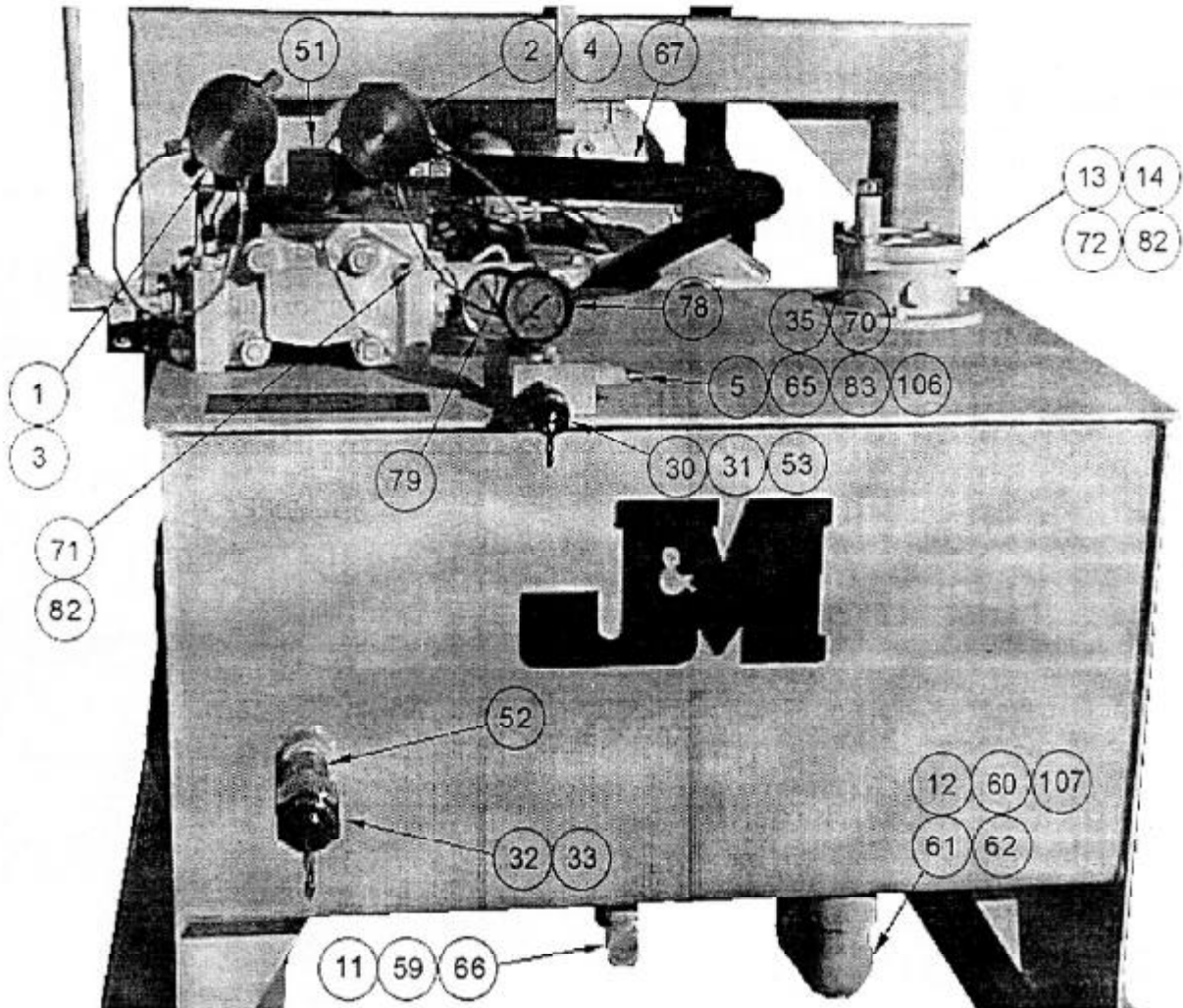


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# PARTS LIST

POWER UNIT ASSEMBLY

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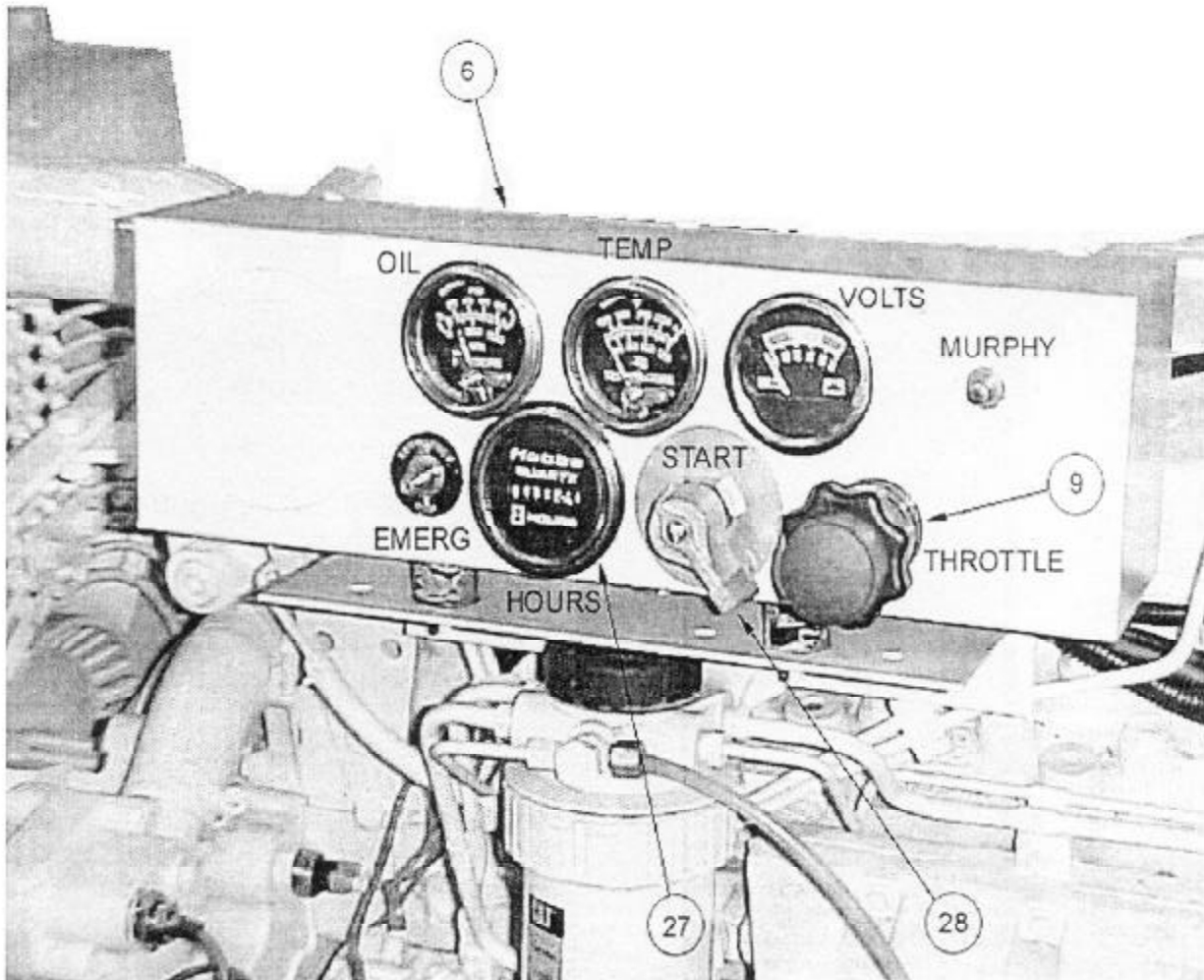


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# PARTS LIST

POWER UNIT ASSEMBLY

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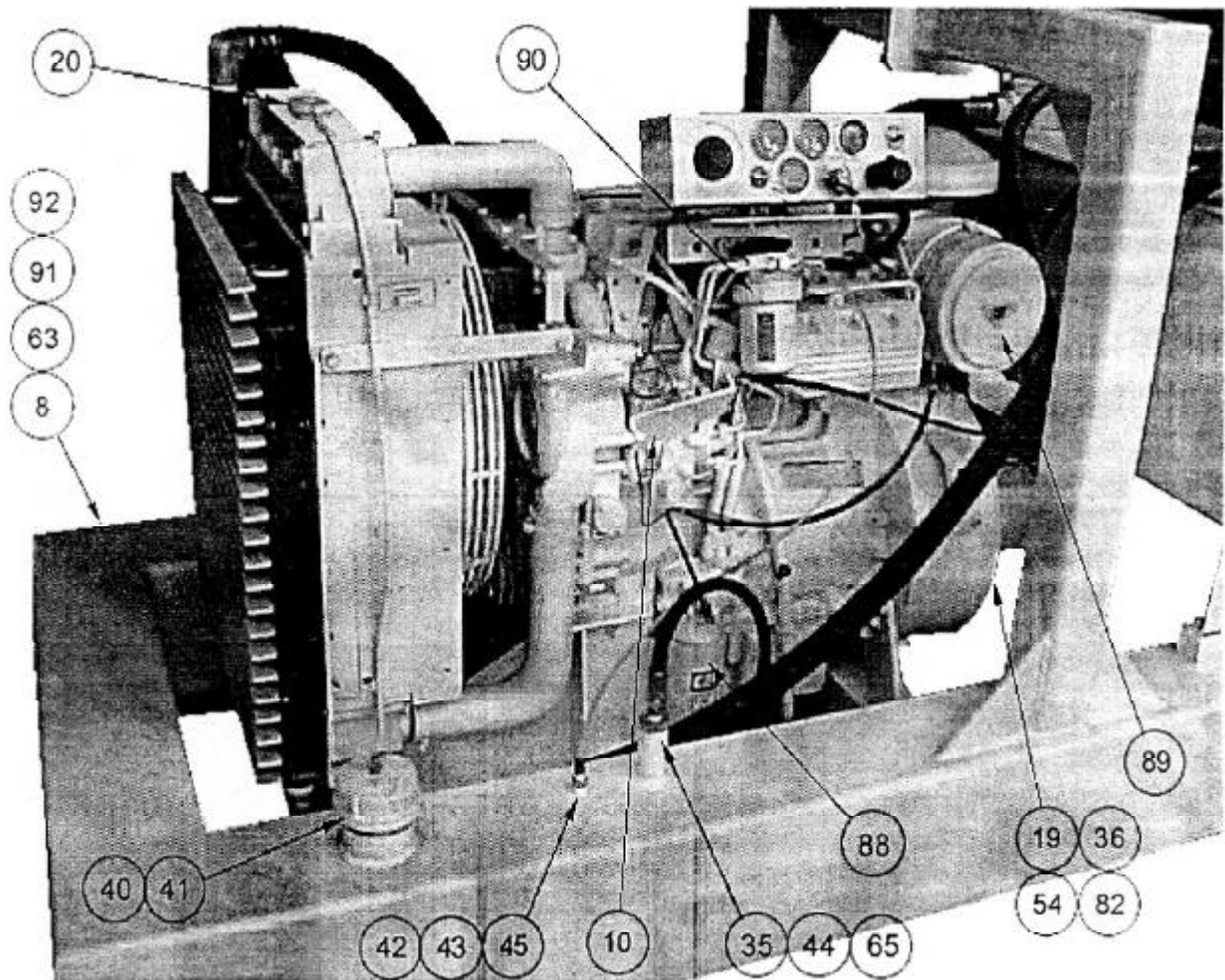


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# PARTS LIST

POWER UNIT ASSEMBLY

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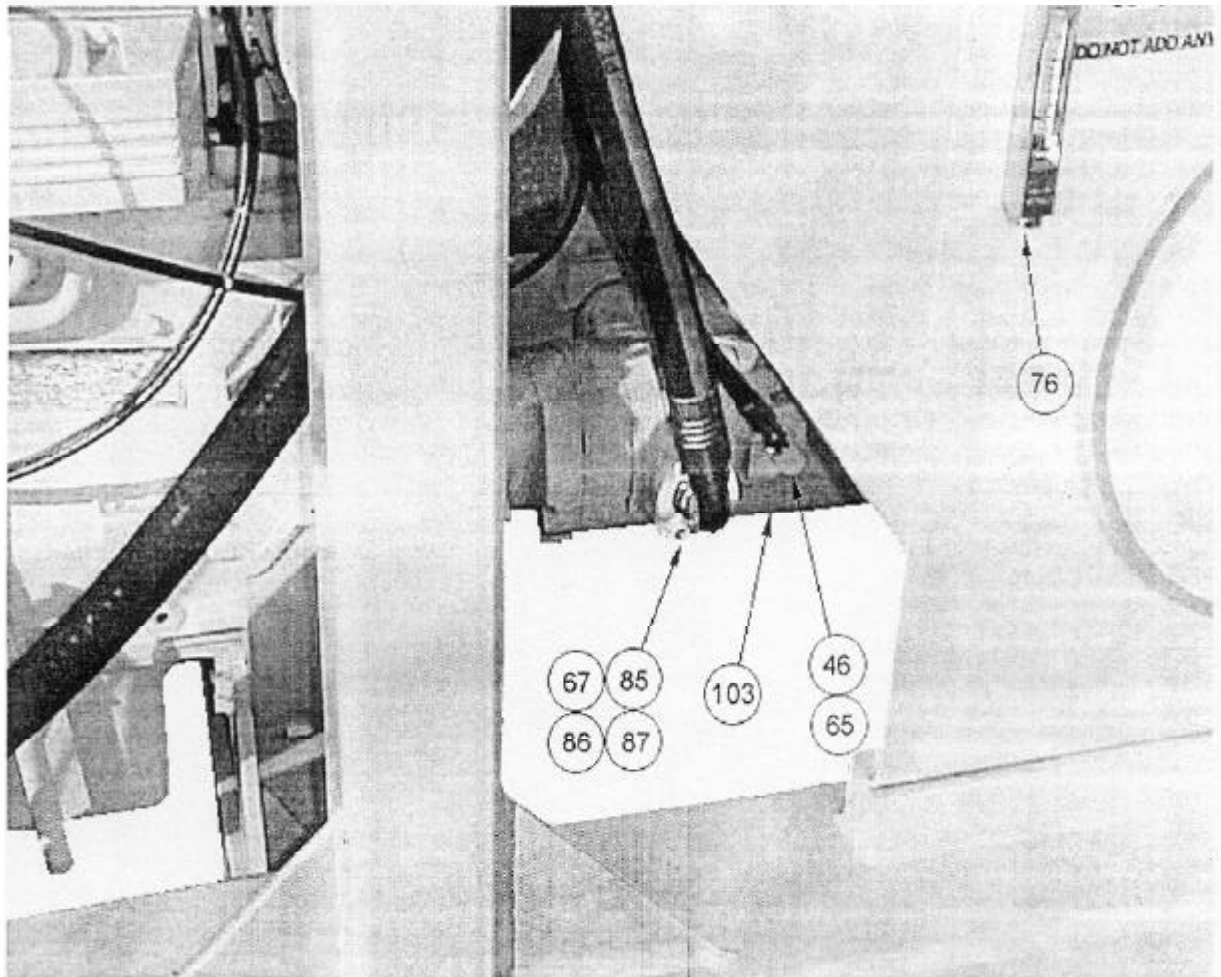


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# PARTS LIST

POWER UNIT ASSEMBLY

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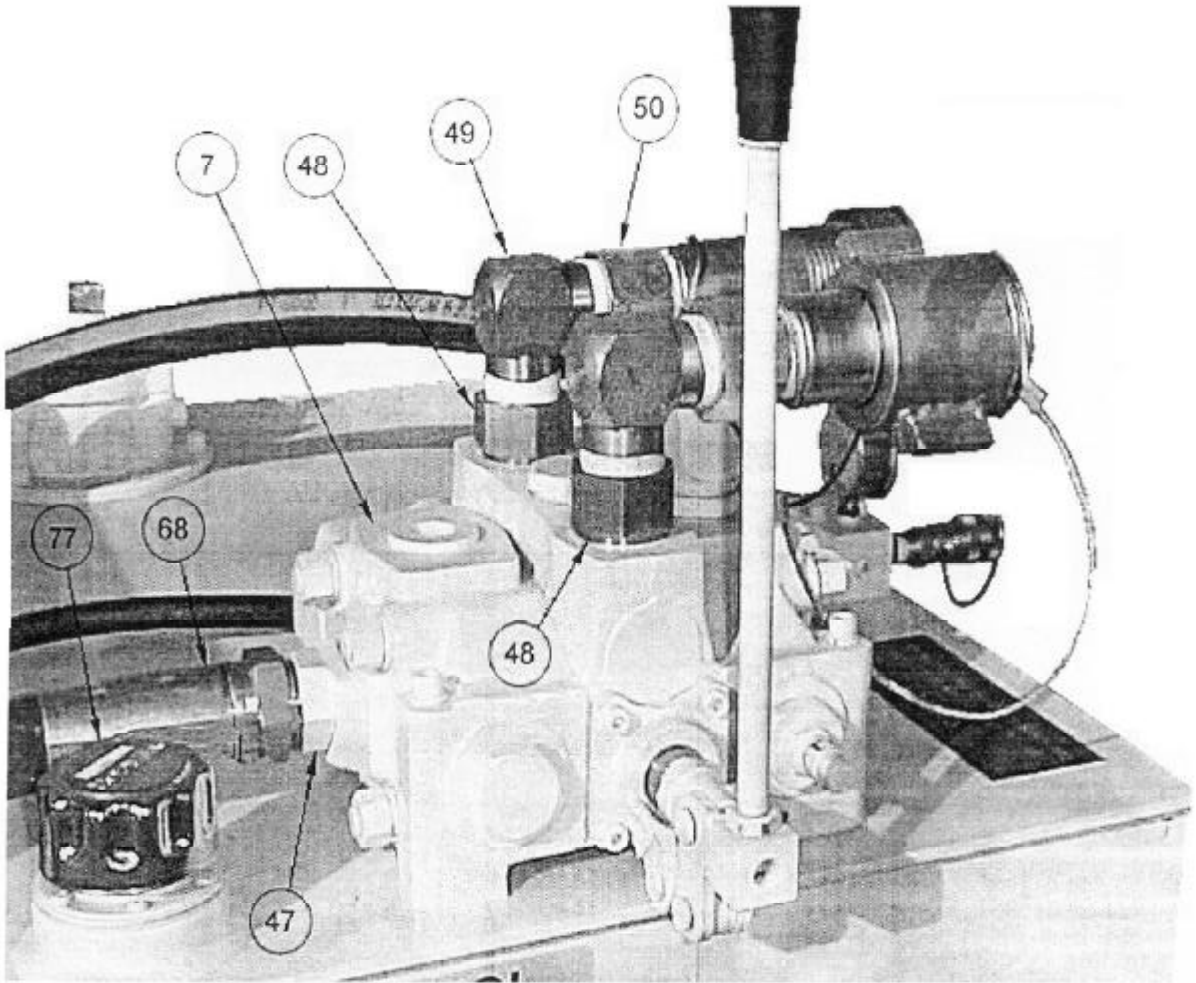


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# PARTS LIST

POWER UNIT ASSEMBLY

175029





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# PARTS LIST

POWER UNIT ASSEMBLY

175029

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	170413	1	1.25 Female Disconnect
2	170415	1	1.25 Male Disconnect
3	170417	1	1.25 Dust Plug
4	170419	1	1.25 Dust Cap
5	170421	1	Relief Valve
6	170425	1	Gage Panel
7	170423	1	Manual Control Valve
8	173009	1	Sub-Base Asm
9	170429	1	Throttle Cable Asm
10	170431	1	Cable Bracket
11	170433	1	.75 Ball Valve
12	170435	1	2.00 Ball Valve
13	170437	1	Filter Asm
14	170439	1	Filter Element
15	400247	16	Engine Oil/Quart
16	140415	60	Hydraulic Fluid / Gal
17	400890	1	Battery
18	170441	1	Heat Exchanger
19	400259	1	Pump Adapter
20	100726	10	Antifreeze / Gal
21	170443	1	Engine 3054 Dit
22	170445	1	Muffler
23	170447	1	Exhaust Pipe
24	170449	1	2.50" Rain Cap
25	170337	1	Left Cooler Bracket
26	170339	1	Right Cooler Bracket
27	100343	1	Hourmeter
28	130259	1	Start Switch
29	170451	1	2.50" Muffler Clamp
30	100777	1	.375 Female Disconnect
31	100737	1	.375 Dust Plug
32	120025	1	1" Female Disconnect
33	120027	1	1" Dust Plug
34	170377	1	Cooler Guard
35	400203	2	FITT2S-06M06P000-000H001
36	100143	12	.375-16 X 1.25 Lg SHCS Loc Wel
37	170453	1	FITT2L-20M20Q000-0000001
38	400221	1	FITT2L-20M20P000-0000001
39	130043	1	FITT2L-20M20J000-000H001
40	100419	1	Petcock



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## PARTS LIST

POWER UNIT ASSEMBLY

175029

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
41	100417	1	FITT2C-48Q000000-0000306
42	110369	1	FITT2S-06P04Q000-000H001
43	100337	1	FITT2S-04P04E000-000H002
44	100715	1	FITT2S-16P06Q000-000H001
45	110415	3	.250 Oil Pressure Tube/Ft
46	170455	1	FITT2L-06M08R000-0000001
47	170457	1	FITT2S-20M20R000-000001
48	170459	2	FITT2S-20R20Q000-0000001
49	170461	2	FITT2L-20P20P000-0000001
50	170463	2	FITT2S-20P20Q000-0000001
51	170465	1	FITT2L-20M20R000-0000001
52	100449	1	FITT2S-16P16P000-000H001
53	110794	1	FITT2S-06P06P000-000H001
54	130933	8	.38-24UNF X 1.00 Lg SHCS
55	400185	1	FITT2S-20M20P000-000H001
56	100590	1	FITT2L-12M12R000-000H001
57	100293	12	.312 Flat Washer
58	110755	2	Battery Cable-15
59	170475	1	FITT2L-12P12P000-0000001
60	170477	1	Flex Master 2" Pipe
61	170467	2	FITT2S-32P000000-0650301
62	100549	2	FITT2L-32P32Q000-0000406
63	100423	2	FITT2P-08P000000-000S007
64	110055	1	FITT2P-20P000000-000S007
65	170399	2	HOSE038R02J006J006L05000
66	170401	1	HOSE075R01P012J012L01700
67	170403	1	HOSE100PT4J020F920L06400
68	170405	1	HOSE125R01J020J020L07200
69	170407	1	HOSE125R01J020J020L09600
70	140773	2	.25-20UNC X 2.38 Lg SHCS
71	130131	3	.375-16 X 4.50 Lg SHCS
72	100051	3	.375-16 X 1.0 Lg SHCS Loc Wel
73	100105	8	.312-18 X 1.0 Lg SHCS Loc Wel
74	100396	4	.312-18UNC x 1.50 Lg SHCS
75	100011	4	.5-13 X 2.0 Lg SHCS
76	170409	1	Sight Gage W/ Thermometer
77	170411	1	Filler Cap / Breather
78	400856	1	Gage (0-600)
79	400850	1	Gage (0-6000PSI)
80	300459	1	FITT2S-20P20P000-0800301



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## PARTS LIST

POWER UNIT ASSEMBLY

175029

Item	Part Number	Qty.	Description
81	100027	4	.50 Hi-Collar Lock Washer
82	400149	26	.375 Lock Washer
83	100559	2	.25 Lock Washer
84	140233	1	2-228 O-Ring 90 Duro
85	100037	1	2-222 O-Ring 90 Duro
86	100045	2	#20 PA Split Flange Half
87	100119	8	.50-13 X 1.25 Lg SHCS Loc Wel
88	170481	1	Oil Filter
89	170483	1	Air Filter
90	170485	1	Fuel Filter
91	100299	3	Primer/Gal
92	100298	3	J&M Green Paint
93	173007	1	Reservoir Asm
94	100067	4	.75-10 X 2.50 Lg SHCS Loc Wel
95	100069	4	.75 Lock Washer Medium
96	160315	4	.75-10UNC Esna Nut
97	100398	4	Saddle Clip
98	100287	12	.312 Lock Washer
99	400231	2	Hold Down Stud
100	100831	2	.312 Wing Nut
101	170487	1	Battery Holddown
102	100289	4	.312-18 Hex Nut
103	170427	1	Pump
104	400109	1	2.0 Solid Flange
105	100121	4	.50 Lock Washer Medium
106	170507	1	FITT2S-06P06P000-1000301
107	170509	1	FITT2S-32P32P000-02000301

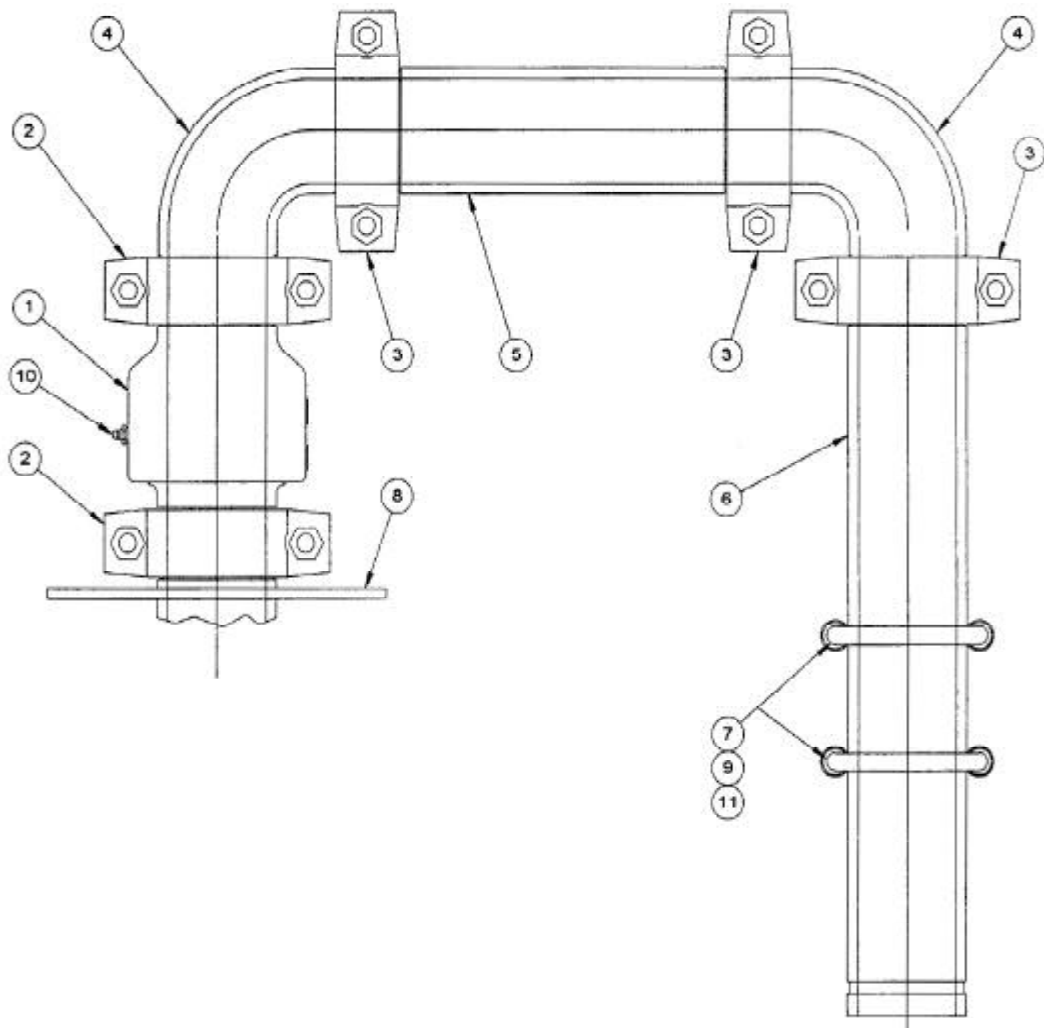


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# PARTS LIST

3" ROTARY JOINT ASSEMBLY

175041





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## PARTS LIST

3" ROTARY JOINT ASSEMBLY

175041

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	810551	1	3" Swivel Joint Asm.(J&M)
2	400477	2	3" Victaulic Coupling
3	400881	3	3" 75 Coupling
4	400877	2	3-90 Elbow
5	170329	1	Short Pipe
6	170331	1	Long Pipe
7	170511	2	3" Pipe U-Bolt
8	170327	1	Slinger
9	100485	4	.50-13 Hex Nut
10	100229	1	Grease Fitting
11	100121	4	.50 Lock Washer Medium



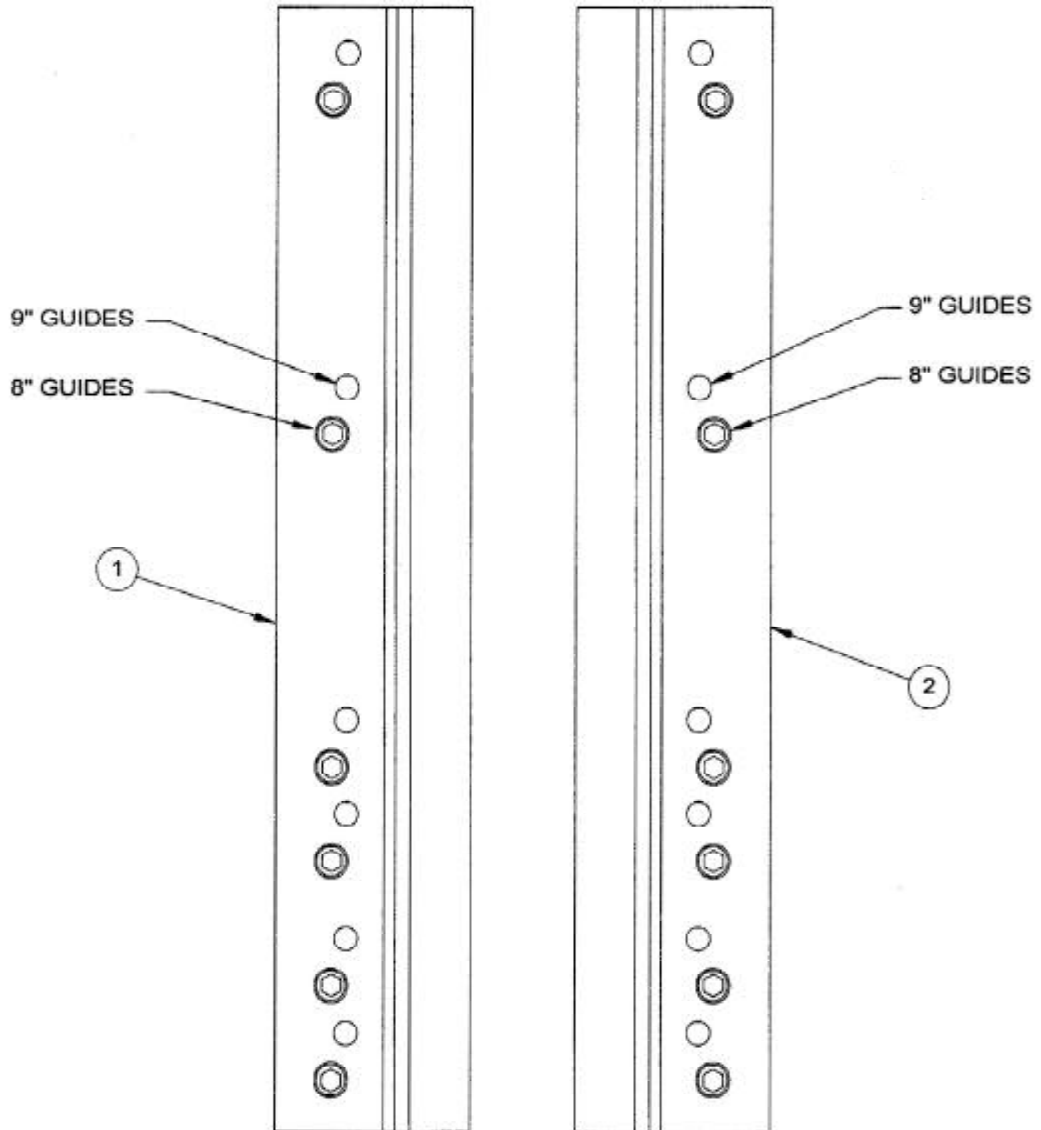
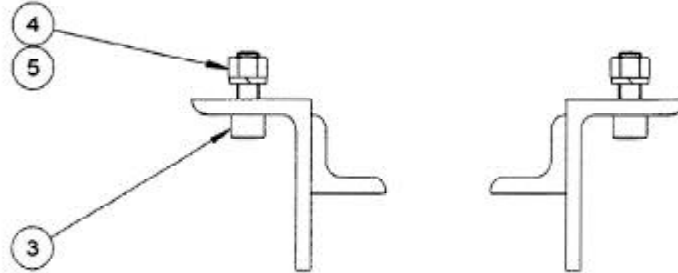


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# PARTS LIST

26° LEAD GUIDE ASSEMBLY

175037





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## PARTS LIST

26" LEAD GUIDE ASSEMBLY

175037

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	170313	2	26" Guide Left Hand
2	170315	2	26" Guide Right Hand
3	400069	24	.75-10 x 2.0 Lg SHCS
4	100587	24	.75-10 Hex Nut
5	100069	24	.75 Lock Washer Medium

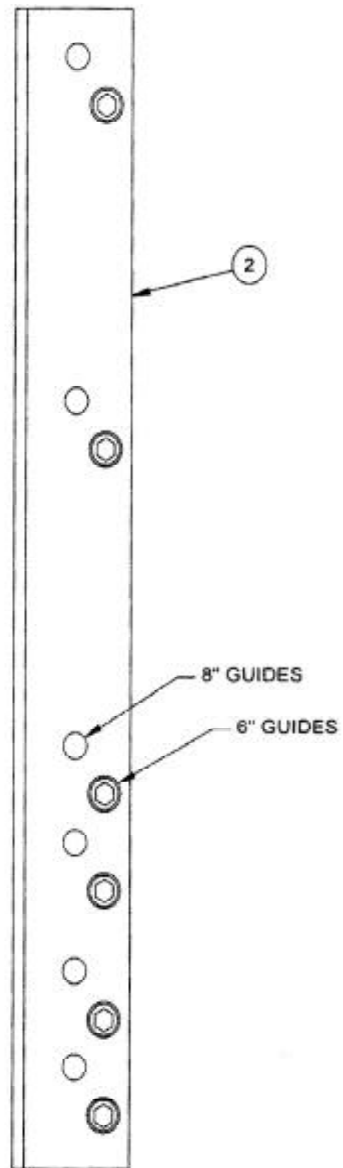
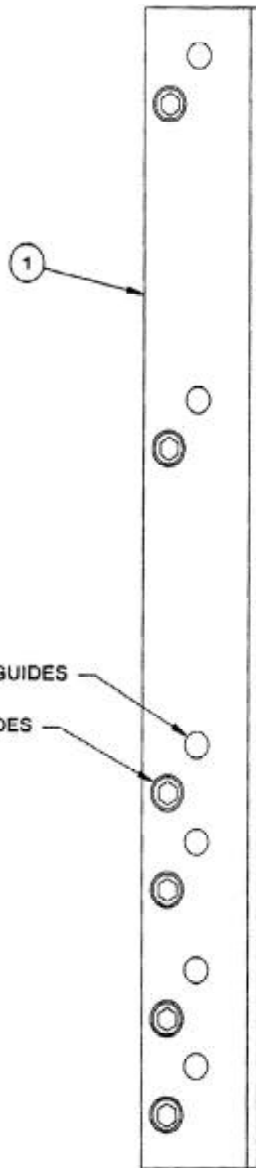
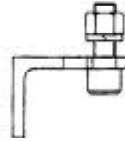
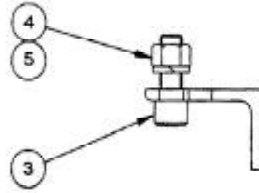


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# PARTS LIST

20" LEAD GUIDE ASSEMBLY

175045





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## PARTS LIST

20" LEAD GUIDE ASSEMBLY

175045

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	170519	2	20" Guide Left Hand
2	170521	2	20" Guide Right Hand
3	400069	24	.75-10 x 2.0 Lg SHCS
4	100587	24	.75-10 Hex Nut
5	100069	24	.75 Lock Washer Medium

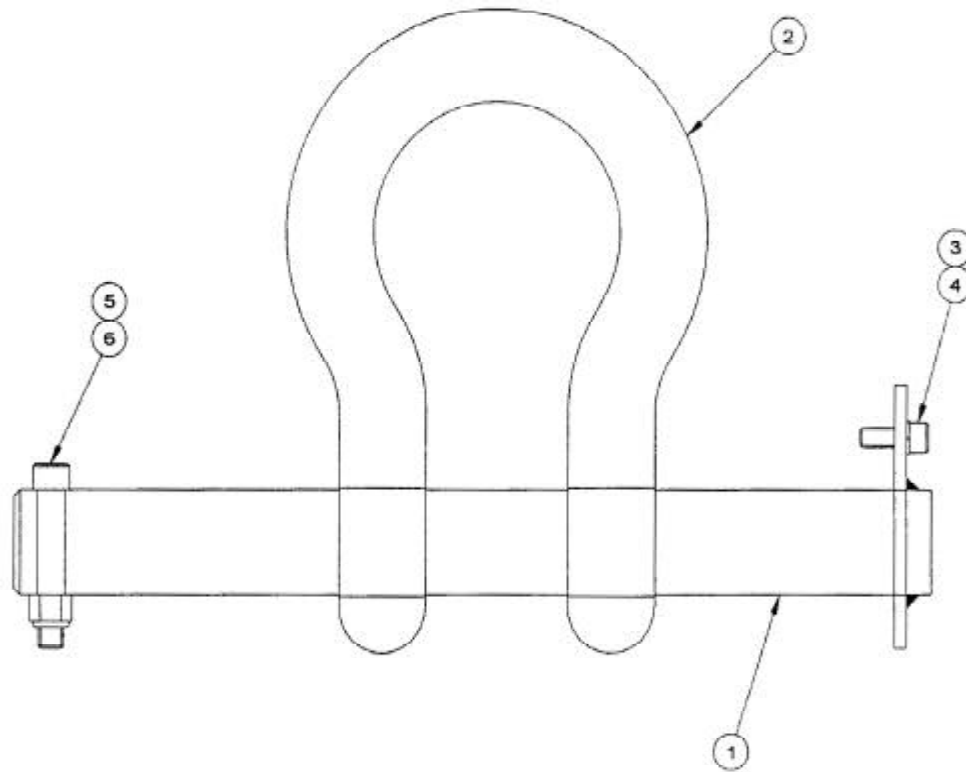


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# PARTS LIST

SHACKLE LIFT KIT

175035





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## PARTS LIST

SHACKLE LIFT KIT

175035

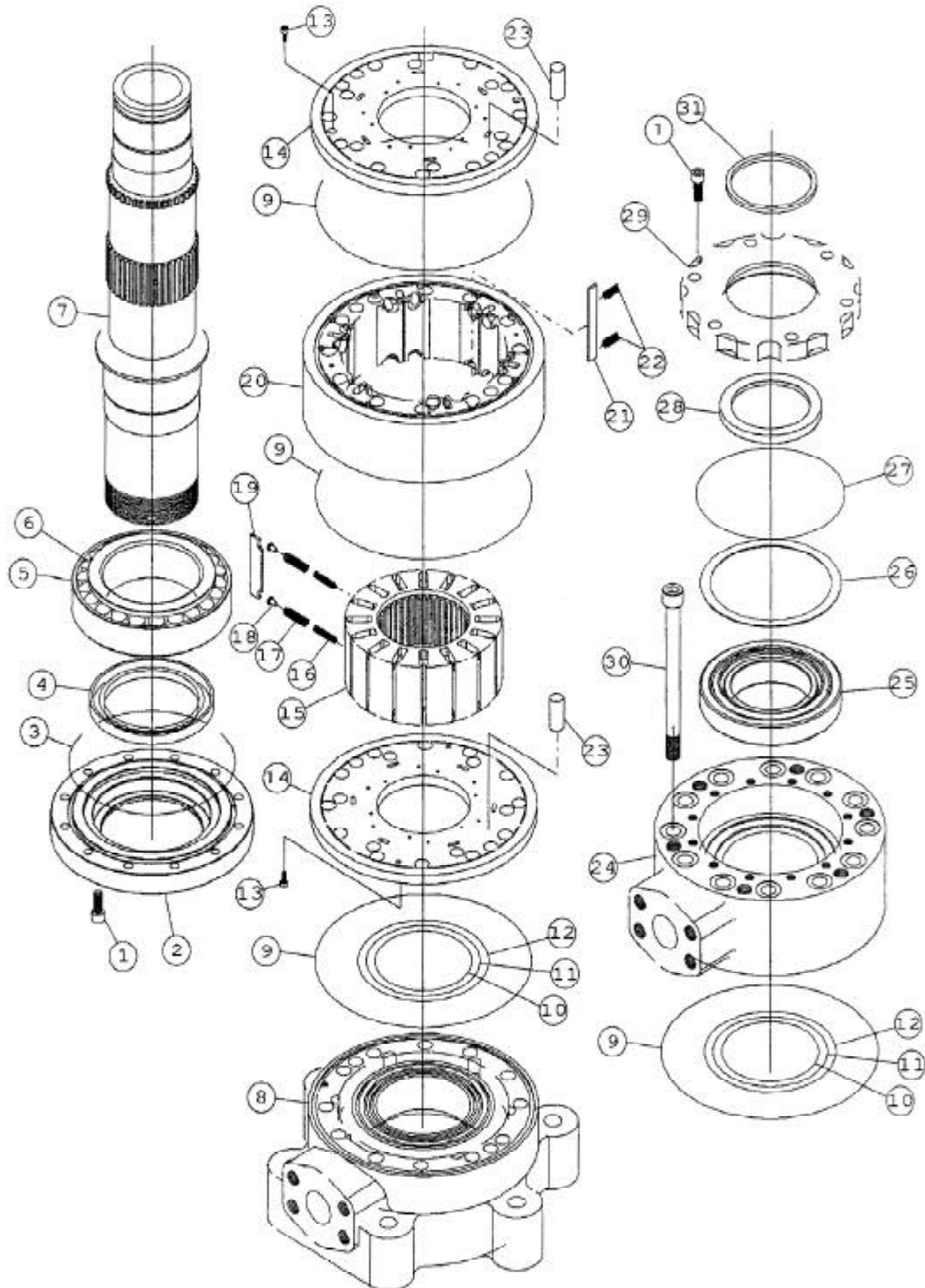
<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	170323	1	Yoke Pin
2	170513	1	1.75 Shackle
3	100051	1	.375-16 X 1.0 Lg SHCS Loc Wel
4	400149	1	.375 Lock Washer
5	130235	1	.50-13 X 3.0 Lg SHCS
6	130049	1	.50-13 Esna Nut



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# PARTS LIST

EXPLODED MOTOR VIEW





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## PARTS LIST

### MOTOR BILL OF MATERIAL

<u>Item</u>	<u>Qty.</u>	<u>Description</u>
1	18	Bolt, Seal Plate
2	1	Seal Plate, Code 62
3	1	O-Ring, Seal Plate, Code 62
4	1	Seal, TCN, 4.25
5	1	Bearing Cup
6	1	Bearing Cone
7	1	Shaft, Code 62, Drill Motor
8	1	Front Housing, A,PC, Code 62
9	4	O-Ring, Main
10	2	O-Ring, Thermal, Inner
11	2	O-Ring, Thermal, Middle
12	2	O-Ring, Thermal, Outer
13	4	Plate Screw
14	2	Plate, Timing, PC
15	1	Rotor
16	32	Spring, Inner Rotor
17	32	Spring Outer Rotor
18	32	Spring Button
19	16	Vane, Rotor
	16	Vane, Rotor
20	1	Stator
21	6	Stator Vane
22	12	Spring, Stator Vane
23	4	Dowel Pin, .63 X 2.00 Lg.
24	1	Rear Housing, A, PC, Code 62
25	1	Bearing Set
26	Varied	Shim (Fitted)
27	1	O-Ring, Seal Plate
28	1	Seal, Shaft, TCN 3.50
29	1	Seal Plate, Rear, Thru
30	12	Bolt, .63-11UNC X 10.00 Lg, Main
31	1	Dust Seal, RR Seal PLate





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# PARTS LIST

## RECOMMENDED TIGHTENING TORQUE

Nominal Screw Size	Nominal Socket Size	Tightening Torque Ft-Lbs. (Kg-M)	Nominal Screw Size	Nominal Socket Size	Tightening Torque Ft-Lbs. (Kg-M)
#10-24	5/32	6 Ft-Lbs. (.83 Kg-M)	#10-32	5/32	6 Ft-Lbs. (.83 Kg-M)
1/4-20	3/16	13 Ft-Lbs. (1.8 Kg-M)	1/4-28	3/16	15 Ft-Lbs. (2.1 Kg-M)
5/16-18	1/4	27 Ft-Lbs. (3.7 Kg-M)	5/16-24	1/4	30 Ft-Lbs. (4.2 Kg-M)
3/8-16	5/16	48 Ft-Lbs. (6.6 Kg-M)	3/8-24	5/16	55 Ft-Lbs. (7.6 Kg-M)
7/16-14	3/8	77 Ft-Lbs. (10.6 Kg-M)	7/16-20	3/8	86 Ft-Lbs. (11.9 Kg-M)
1/2-13	3/8	119 Ft-Lbs. (16.4 Kg-M)	1/2-20	3/8	133 Ft-Lbs. (18.4 Kg-M)
5/8-11	1/2	234 Ft-Lbs. (32.3 Kg-M)	5/8-18	1/2	267 Ft-Lbs. (36.9 Kg-M)
3/4-10	5/8	417 Ft-Lbs. (57.6 Kg-M)	3/4-16	5/8	467 Ft-Lbs. (64.5 Kg-M)
7/8-9	3/4	676 Ft-Lbs. (93.4 Kg-M)	7/8-14	3/4	742 Ft-Lbs. (102.5 Kg-M)
1-8	3/4	1,009 Ft-Lbs. (139.4 Kg-M)	1-12	3/4	1,126 Ft-Lbs. (155.6 Kg-M)
1-1/4-7	7/8	1,600 Ft-Lbs. (221.1 Kg-M)	1-1/4-12	7/8	1,800 Ft-Lbs. (248.8 Kg-M)
1-1/2-6	1	2,800 Ft-Lbs. (387 Kg-M)	1-1/2-12	1	3,000 Ft-Lbs. (414.6 Kg-M)

NOTE: These values are for Socket head cap screws only. Button heads, Flat heads and Set screws have different values. Check the Allen Hand Book for correct torque specifications.