



MODEL 55AT
TOP DRIVE
EARTH AUGER

OPERATING AND MAINTENANCE MANUAL

J&M MODEL 55AT

TOP DRIVE EARTH AUGER

WITH MODEL 315 POWER PACK

OM-55AT-315-0208



**J&M FOUNDATION
EQUIPMENT, LLC**

SPECIALIZING IN PILE DRIVING EQUIPMENT



MODEL 55AT
TOP DRIVE
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WITH MODEL 315 POWER UNIT

PREFACE

INFORMATION This manual was prepared to acquaint the owner, operator and serviceman with the operation and maintenance of the top drive earth auger. We strongly suggest that this manual be carefully studied before operating or undertaking any maintenance work on the unit. It is not meant to be all inclusive as to content, and any questions and/or doubt should be directed to J&M before proceeding with any operation or maintenance.

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J&M reserves the right to update or revise this manual as required, check with J&M for current release date.



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WARRANTY

J&M FOUNDATION EQUIPMENT LLC. STANDARD WARRANTY

J&M Foundation Equipment LLC (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 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 judgement 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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OPERATING INSTRUCTIONS

I. GENERAL DESCRIPTION

A. GENERAL



When unloading and unpacking the auger, use extreme care. For your protection, make a thorough inspection of the unit immediately on delivery. In case of any damage or shortage, notify the transit agent at once and have the delivering carrier make a notation on the freight bill.

B. SAFETY PRECAUTIONS

Safety is very important and is everyone's responsibility that operates this equipment or services this equipment.



Use the following safety precautions as a general guide to safe operations, when in doubt consult J&M before proceeding with any operation that may produce an unsafe result. These safety guidelines do not constitute all possible safety issues that may occur during operation or maintenance.

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. 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.



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**OPERATING
INSTRUCTIONS**

I. PREPARATION FOR OPERATION

B. SAFETY PRECAUTIONS (CONTINUED)

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.
21. Store oily rags in approved containers, and away from engine exhaust system.
22. Make sure that the vibrator is OFF 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, piles, 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.



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OPERATING INSTRUCTIONS

I. PREPARATION FOR OPERATION

B. SAFETY PRECAUTIONS (CONTINUED)

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. When extracting piles, always attach a safety line between pile and crane hook.
38. Keep hands away from swivel joint, output shaft and flighting.
39. Keep hands away from auger during operation. Clearances may change causing pinch points.
40. When drilling "batter" piles, insure that the leads, and crane boom, have sufficient bending strength to handle the worst case load. Consult J&M.

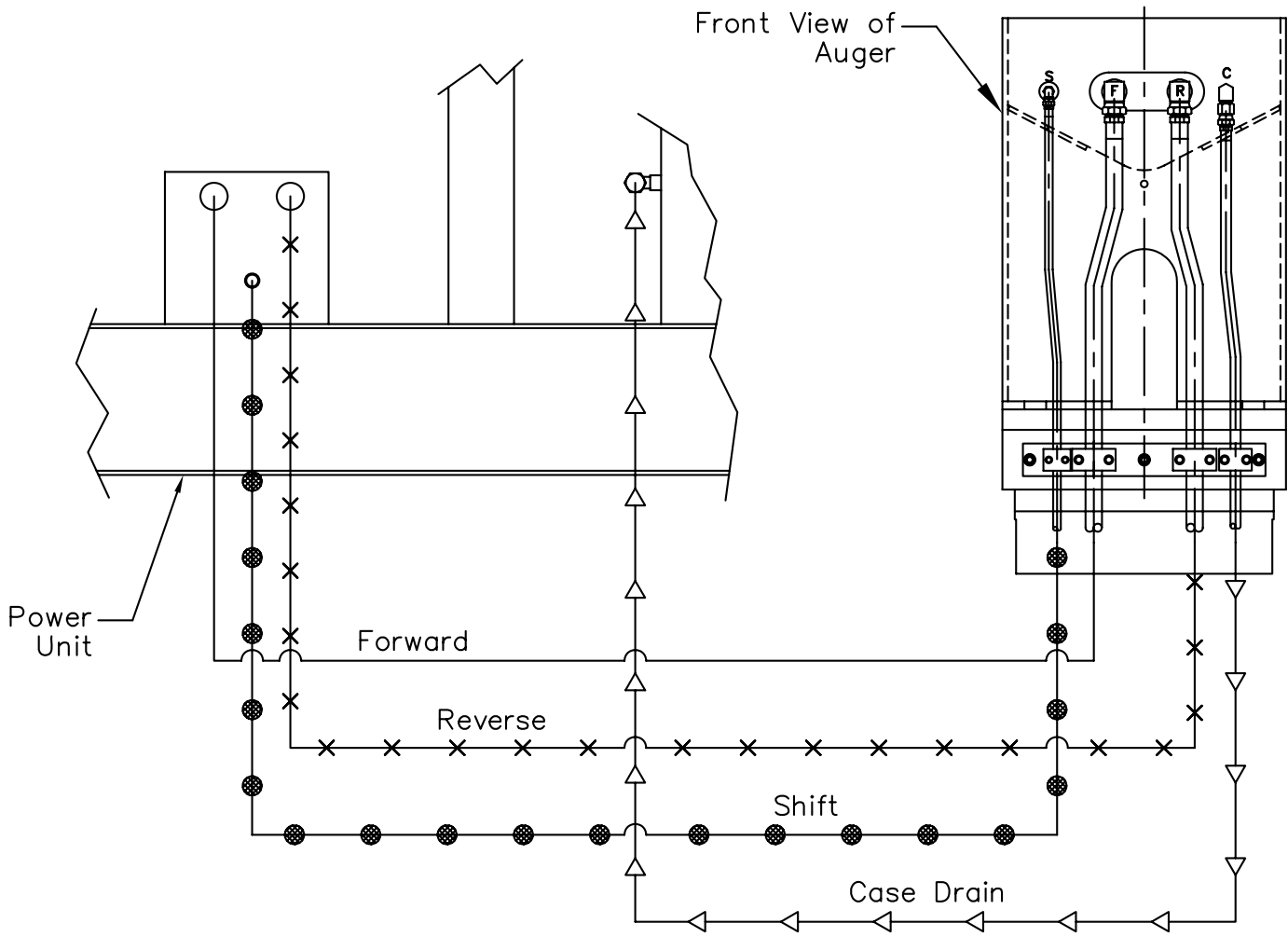
REMEMBER, SAFETY IS EVERYONE'S BUSINESS.



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OPERATING INSTRUCTIONS

I. PREPARATION FOR OPERATION



(Fig 1)



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OPERATING INSTRUCTIONS

I. PREPARATION FOR OPERATION

C. CONNECTION OF HYDRAULIC HOSES

1. Connection of hoses at power unit.

a. The auger is connected to the power unit by four hydraulic hoses (Fig. 1) on the previous page.



The power unit must be shut down during connection of the hydraulic hoses.

b. The hoses connect to the power unit with quick-disconnect couplers. Hose couplers are arranged to insure correct connections at the power unit. See the diagram (Fig. 1) for correct hose connection.

c. Clean couplers with a lint-free cloth before making connections.



Do not use engine starting fluid to clean quick disconnects, this will damage the seals and result in an oil leak.

d. Make sure that the couplers are fully run up, and hand tightened only, do not use wrenches to over tighten.

2. Connection of hoses at auger.

a. The auger is usually shipped with the hoses attached to the auger. If the hoses have been shipped separately, they must be connected in the field. Fig. 1 shows the correct arrangement of the four hoses connecting the power unit to the auger.

D. FILLING AUGER FORWARD AND REVERSE HOSES

1. The auger is usually shipped with the hydraulic hoses full of fluid and the unit may be used immediately. However, if the pressure hoses have been removed from the auger, the hoses need to be filled with hydraulic fluid prior to full speed operation.

2. Start and warm up the diesel engine. Hold the auger in a vertical position.

3. With the engine warmed up and running at 1000 RPM, turn and hold the auger switch FORWARD. The hoses will fill in approximately 1 minute.

4. The output shaft will begin to rotate, this means the Forward pressure hose is full of hydraulic fluid. The Reverse pressure hose will fill directly as it is the hose that the hydraulic fluid is being returned to the power unit by.



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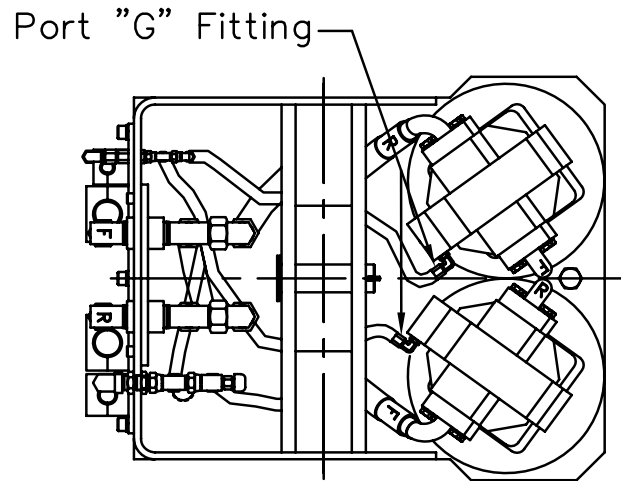
OPERATING INSTRUCTIONS



MODEL 55AT
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OPERATING INSTRUCTIONS

I. PREPARATION FOR OPERATION



(Fig 2)

E. FILLING SHIFT HOSE

1. After the the Forward and Reverse hose have been filled.
2. With the engine warmed-up and running at 1000 RPM, loosen the hose Port "G" Fittings on each motor. Turn the AUTO-MAX-HALF switch to MAX. Wait until oil flows from the connections. When oil flows without air, tighten Port "G" Fittings and turn switch to Auto. Turn switch to Max and back to Auto five times. Turn switch to Max and loosen the hose Port "G" Fittings on each motor again till you see oil flowing with out air to confirm the air has been removed from the hoses tighten Port "G" Fittings. Turn switch back to Auto. See (Fig 2) above for the Port "G" Fittings.



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OPERATING INSTRUCTIONS

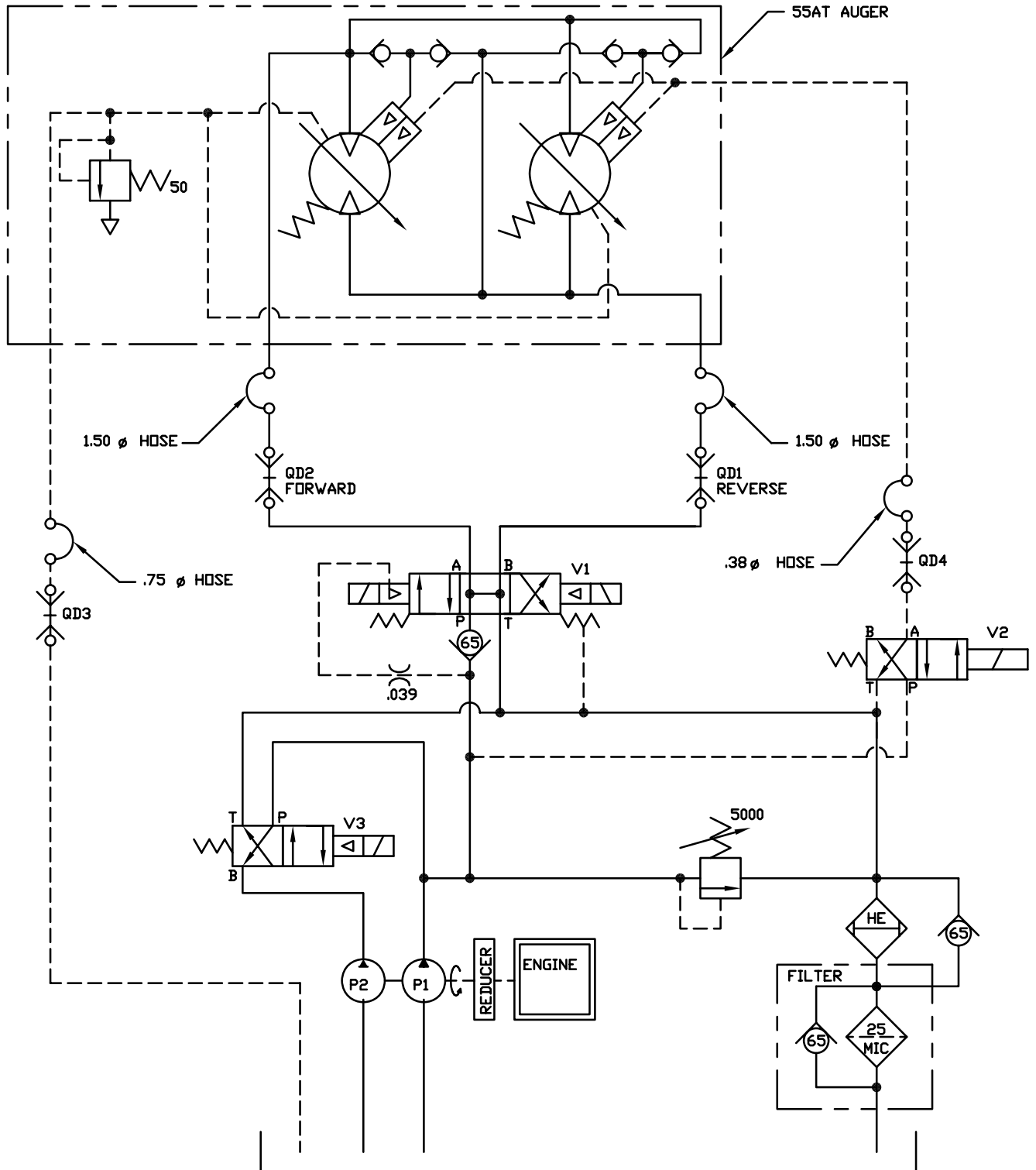


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OPERATING
INSTRUCTIONS

II. CIRCUITRY

HYDRAULIC SCHEMATIC





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OPERATING INSTRUCTIONS

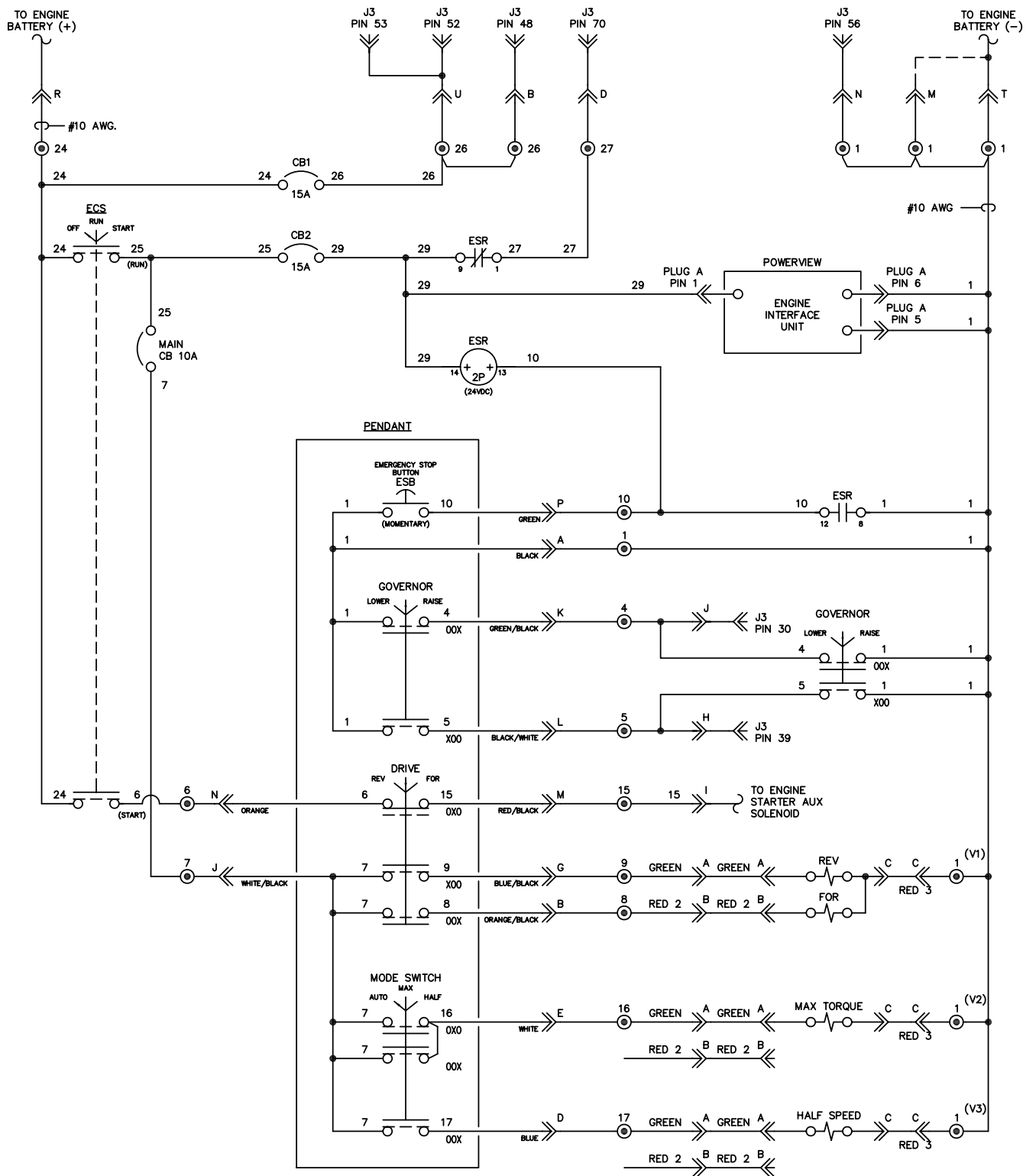


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**OPERATING
INSTRUCTIONS**

II. CIRCUITRY

ELECTRICAL SCHEMATIC





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OPERATING INSTRUCTIONS



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PARTS LIST

III. GENERAL DATA

A. 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



III. GENERAL DATA

B. 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
13 UNC = Threads Per Inch
1.50 Lg = Length
SHCS = Screw Type Abbreviation

C. 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 - once on the gear case cover between the planetary gear reducers, once on the gear case near the hose clamp plate.
 - b. Power unit stamped twice - once on the hydraulic oil reservoir, once on sub-base near the heat exchanger.



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PARTS LIST



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PARTS LIST

IV. ORDERING PARTS

B. FITTING DESCRIPTION KEY

FITT 2 L - 16 M 12 J 00 0 - 00L 0 0 0 1

SELECTOR INDEX

- 2 - INCH FITTING
- 9 - METRIC FITTING

CONFIGURATION OR SHAPE OF FITTING

- S - STRAIGHT FITTING
 - L - 90 Deg. ELBOW
 - V - 45 Deg. ELBOW
 - T - TEE
 - C - CAP
 - P - PLUG
 - U - UNION
 - X - CROSS
- (FOURTH END FITT'G REQ'D.)

FIRST END SIZE

- * IN 1/16THS OF AN INCH (INDEX 2)
- IN MILLIMETERS (INDEX 9)
- SEE GENERAL SPECIFICATION SHEET FOR SEQUENCE OF ORDER

FIRST END FITTING STYLE

- SEE FITTING STYLE SELECTOR CHART SC-1

SECOND END SIZE

- IF APPLICABLE - SEE FIRST END SIZE

SECOND END FITTING STYLE

- IF APPLICABLE - SEE FIRST END FITTING STYLE

THIRD END SIZE

- IF APPLICABLE - SEE FIRST END SIZE

THIRD END FITTING STYLE

- IF APPLICABLE - SEE FIRST END SIZE

* EXCEPTIONS

- 90 = 10" 96 = 6"
- 92 = 12" 98 = 8"
- 94 = 14" 99 = NON CODE SIZE

MATERIAL

- 1 - CARBON STEEL
- 2 - BRASS
- 4 - STAINLESS STL
- 5 - AAR MAL IRON
- 6 - MALEABLE IRON
- 8 - FORGED STEEL

SPECIAL NOTATIONS

PRESSURE RATING

- 0 - NONE
- 1 - 125 LB.
- 3 - SCH 40
- 4 - SCH 80

INSTALLATION AID OR STYLE OF HEAD

- 0 - NOT APPLICABLE
- H - REGULAR HEX
- Q - SQUARE HEAD (EXT.)
- R - SQUARE HEAD (INT.)
- S - HEX HEAD (INT SOCKET)
- T - HEX HEAD (EXT.)

LENGTH CODE

- (ELBOWS & NIPPLES)
- __L - LONG (ELBOW)
- __X - EXTRA LONG (ELBOW)
- __C - CLOSE (NIPPLE)

- PIPE NIPPLES (LONG) ONLY
- IN DEC. INCHES FOR INDEX 2
- 050 = 5.0 INCHES
- 105 = 10.5 INCHES

- IN MILLIMETERS FOR INDEX 9
- 120 = 12.0 MILLIMETERS
- 084 = 8.4 MILLIMETERS

FOURTH END SIZE & FITTING STYLE

- (CROSSES ONLY)
- SEE FIRST END FITTING SIZE OR END STYLE



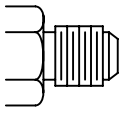
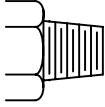
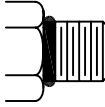
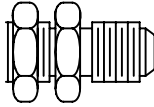
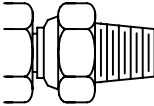
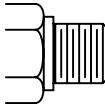
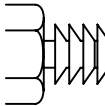
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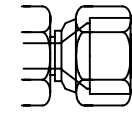
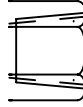
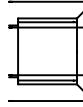
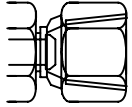
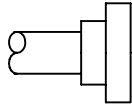
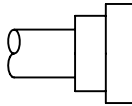
PARTS LIST

IV. ORDERING PARTS

C. FITTING STYLE SELECTOR CHART

FOR END FITTING STYLE SELECTION

M		JIC MALE 37 Deg. FLARE
P		MALE PIPE NPT
R		S.A.E. MALE O-RING (& ADJUSTABLE)
B		JIC MALE 37 Deg. FLARE BULKHEAD
D		MALE PIPE NPT SWIVEL
S		B.S.P. MALE PIPE
T		HOSE BARB

J		JIC FEMALE 37 Deg. FLARE (& SWIVEL)
Q		FEMALE PIPE NPTF
K		S.A.E. FEMALE O-RING
N		FEMALE PIPE NPSM-SWIVEL
F		SPLIT FLANGE 3000 PSI. CODE 61
H		SPLIT FLANGE 6000 PSI. CODE 62

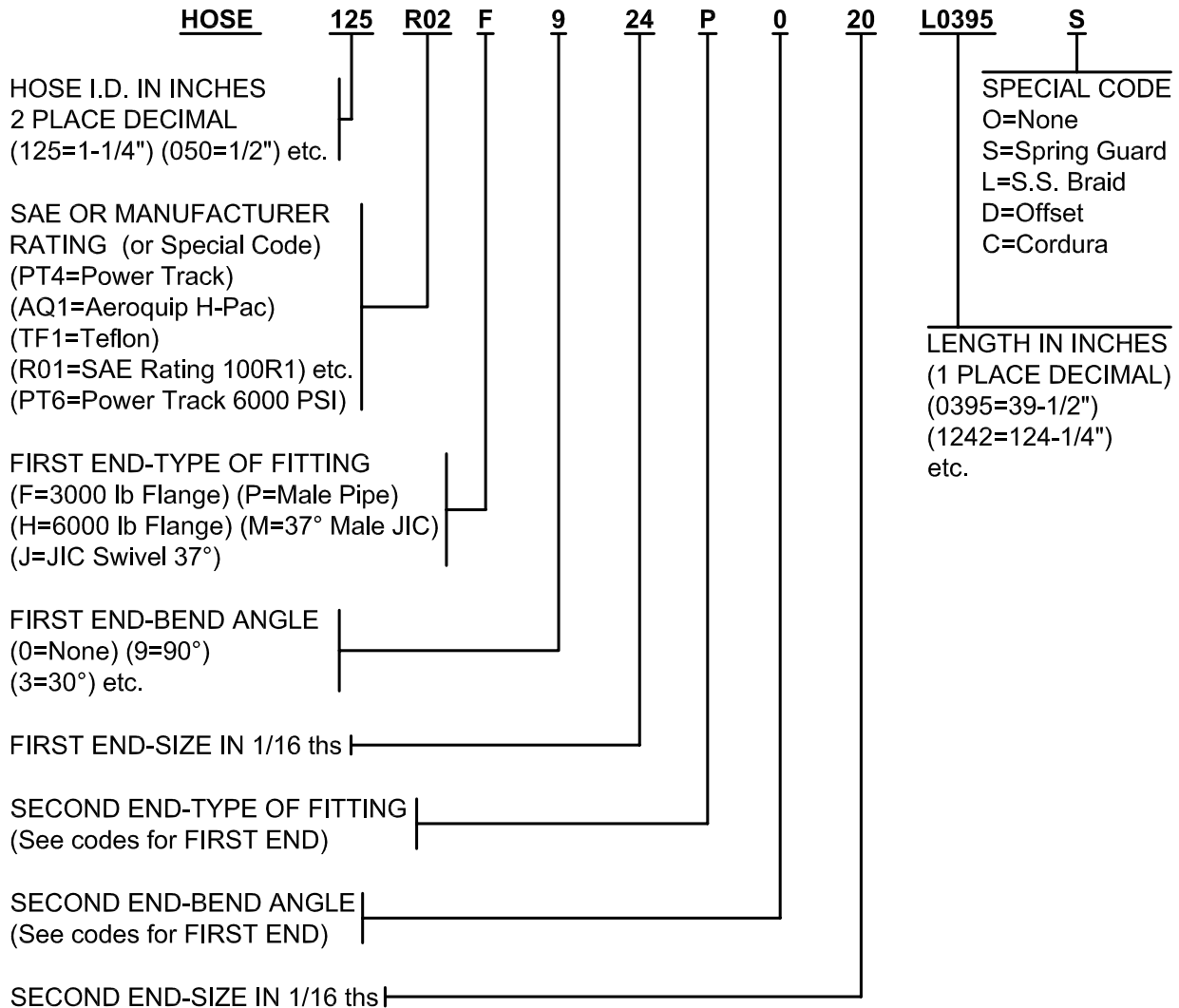


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PARTS LIST

IV. ORDERING PARTS

D. HOSE DESCRIPTION CODE





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PARTS LIST

IV. ORDERING PARTS

E. PARTS IDENTIFICATION

1. Parts lists and drawings are included on the following pages for the equipment components shown below:

a. AUGER ASSEMBLY	800481
b. GEAR BOX ASSEMBLY	810421
c. HOSE ASSEMBLIES - INTERCONNECTING	800531
d. PENDANT ASSEMBLY	810933
e. POWER UNIT ASSEMBLY	800437
f. CONTROL BOX ASSEMBLY	810935
g. 3" ROTARY JOINT ASSEMBLY	800363

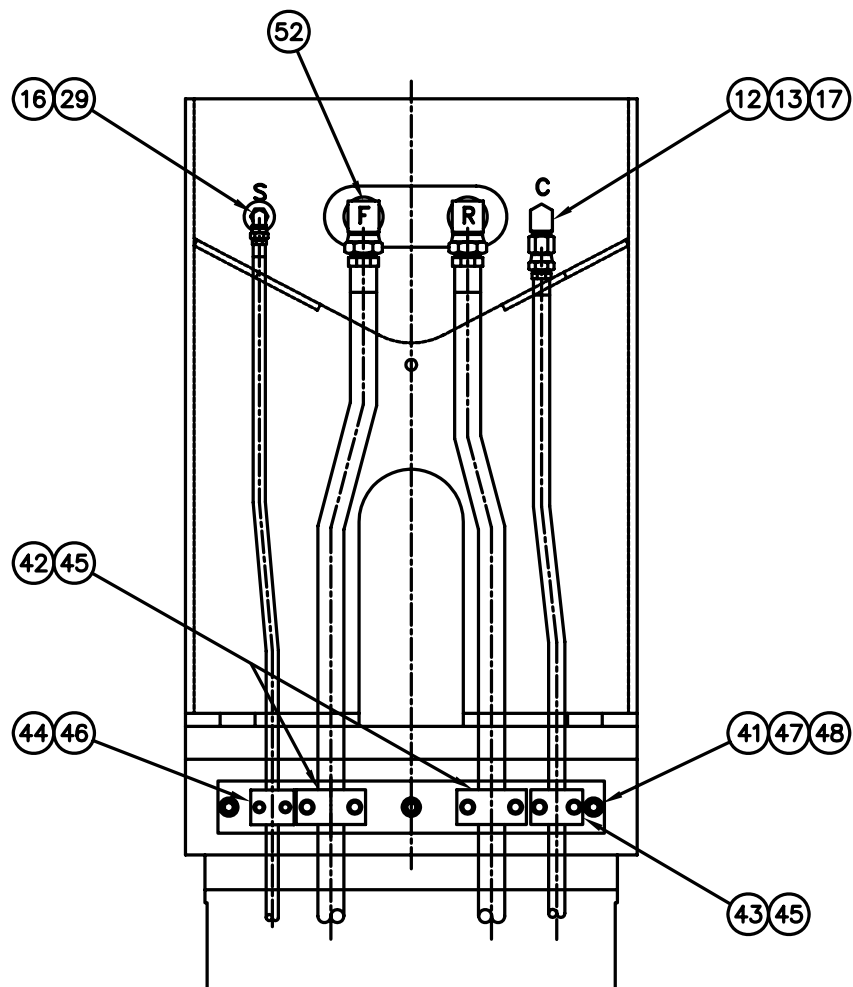


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PARTS LIST

EARTH AUGER ASSEMBLY

800481



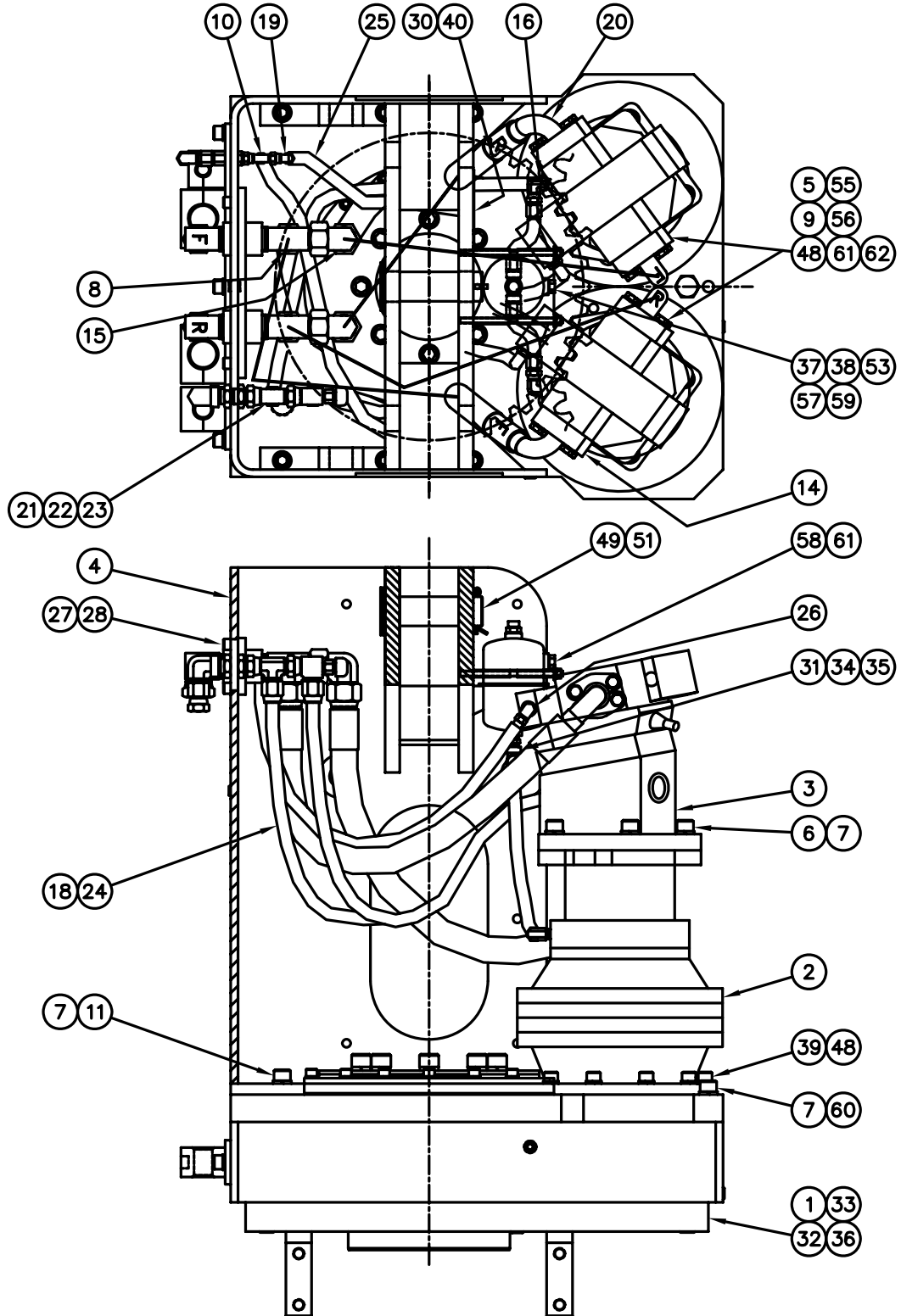


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PARTS LIST

EARTH AUGER ASSEMBLY

800481





MODEL 55AT
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PARTS LIST

EARTH AUGER ASSEMBLY

800481

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	810421	1	5050 AUGER TRANSMISSION CASE
2	400710	2	PLANETARY GEAR REDUCER inDin
3	400708	2	HYDRAULIC MOTOR AUTOTORQUE
4	400541	1	LIFTING BALE
5	100121	16	.50 LOCK WASHER MEDIUM
6	100067	8	.75-10 X 2.5 LG SHCS LOC WEL
7	100069	29	.75 LOCK WASHER MEDIUM
8	100664	2	FITT2T-20P20M20M-0000001
9	100037	4	2-222 O-RING 90 DURO
10	400702	1	FITT2T-06J06M06M-000H001
11	140111	16	.75-10 X 4.0 LG SHCS LW
12	400773	1	FITT2L-12P12Q000-0000306
13	100243	1	FITT2S-12Q12N000-000H001
14	400712	1	HOSE125PT4J020H920L05200
15	130043	2	FITT2L-20M20J000-000H001
16	120525	3	FITT2L-06P06N000-00L000L
17	100387	1	FITT2S-12P12B000-000H001
18	400704	2	HOSE050R01J012J012L03500
19	400411	1	FITT2L-06M06J000-000H001
20	400706	1	HOSE125PT4J020H920L04800
21	100032	1	RELIEF VALVE
22	400700	1	FITT2T-12J12M12M-000H001
23	810759	1	#12JIC SWIVEL 90 W/ .50NPT TAP
24	100609	2	FITT2S-12M12R000-000H001
25	110633	2	HOSE038R02J006J006L0370S
26	130057	2	FITT2L-06M06R000-000H001
27	400722	1	COUPLER PLATE
28	100119	4	.5-13 X 1.25 LG SHCS LOC WEL
29	110199	1	FITT2S-06Q06B000-000H001
30	130381	4	RIVET
31	400917	2	HOSE050R01P006P006L02000
32	100298	1	APE / J&M YELLOW PAINT/GAL
33	100299	1	PRIMER/GAL
34	110794	1	FITT2S-06P06P000-000H001
35	400751	1	FITT2T-06Q06Q06Q-0000001
36	110444	2	TRANSMISSION OIL / GAL.
37	100535	2	.375 -16 HEX NUT
38	400149	2	.375 LOCK WASHER
39	140227	20	.625-11 x 2.0 LG SHCS
40	400749	1	S/N PLATE



MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

EARTH AUGER ASSEMBLY

800481

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
41	400557	1	HOSE CLAMP PLATE
42	100009	2	HOSE CLAMP
43	100013	1	HOSE CLAMP
44	100015	1	HOSE CLAMP
45	100011	14	.50-13 UNC X 2.00 LG SHCS
46	100017	2	.375-16 X 2.0 LG SHCS LOC WEL
47	100575	3	.625-11 x 1.25 LG SHCS
48	100007	20	.625 LOCK WASHER MEDIUM
49	400831	1	LIFTING PIN
50	400833	1	2in FLAT WASHER
51	300375	1	.312 x 5 LG COTTER PIN
52	400019	2	FITT2L-20P20N000-000H001
53	400151	2	.375 FLAT WASHER
54	150083	8	.437-14 X 2.5 SHCS W/LW
55	110986	8	#20 PH SPLIT FLANGE HALF
56	400739	16	.5-13 UNC X 2 LG HHCS
57	400923	2	.375-16 UNC X 7in LG ALLTHREAD
58	400915	1	EXPANSION TANK ASSEMBLY
59	400919	2	4in U-CLAMP
60	400045	5	.75-10 x 3.5 LG SHCS
61	140853	2	FITT2L-20H20M000-0000001
62	400656	2	HOSE125PT4J020J020L04900

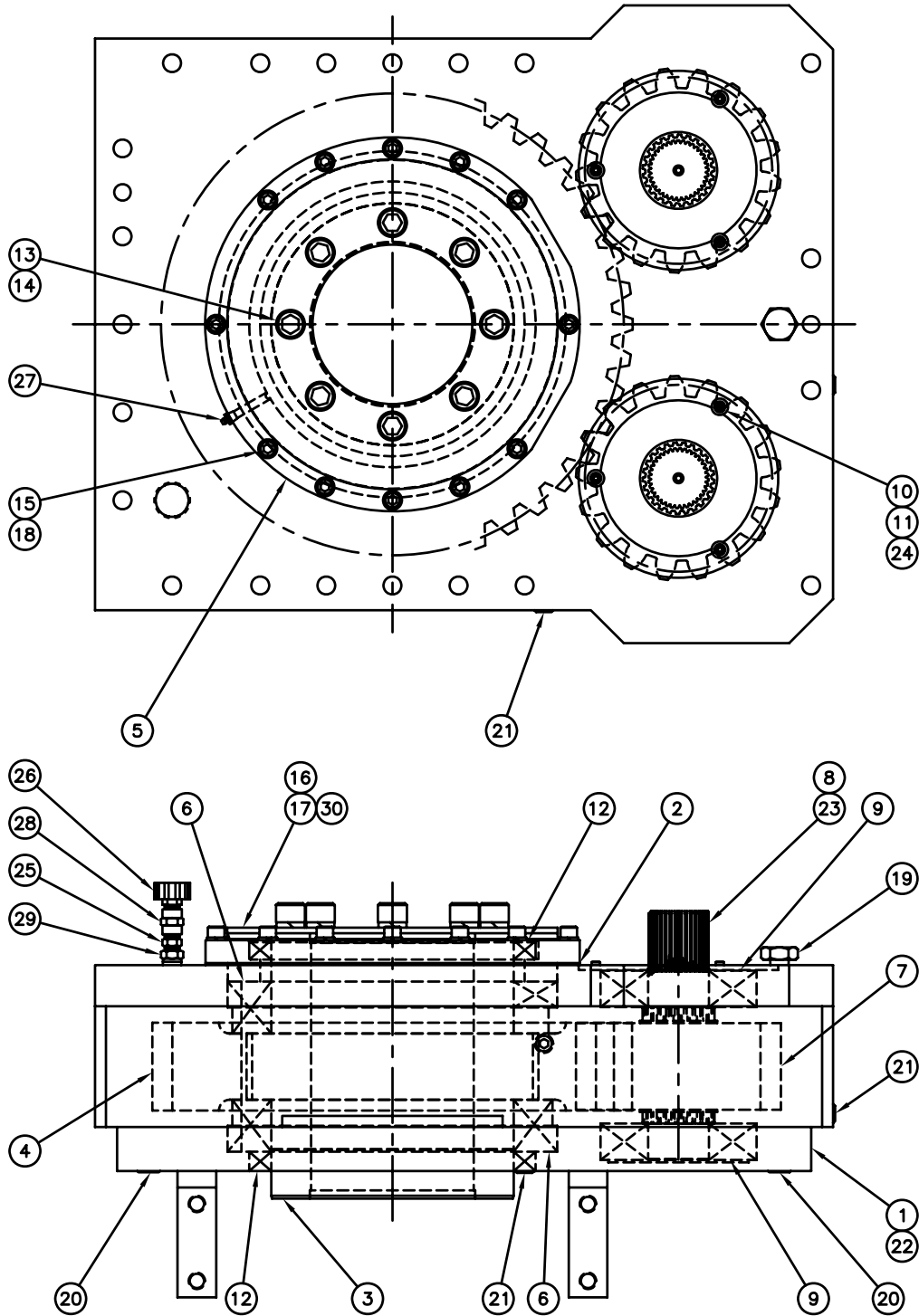


MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

AUGER TRANSMISSION ASSEMBLY

810421





MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

AUGER TRANSMISSION ASSEMBLY

810421

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	810419	1	GEAR BOX PIN ASSEMBLY
2	400529	1	SHIM PACK
3	400521	1	OUTPUT SHAFT
4	400519	1	GEAR
5	400525	1	RETAINER RING
6	400631	2	TAPERED BEARINGS
7	400527	2	PINION GEAR
8	400523	2	PINION SHAFT
9	150017	4	ROLLER BEARING
10	100576	6	.25-20 x .625 LG SHCS
11	100597	6	.25 FLAT WASHER
12	400635	2	SEAL
13	400913	8	.875-9 X 1.5 LG SHCS
14	400911	8	.875 HI COLLAR LOCK WASHER
15	400043	12	.5-13 x 2.25LG SHCS
16	400766	1	POLY-RING
17	400889	1	GROUT SHIELD
18	100121	12	.50 LOCK WASHER MEDIUM
19	400657	1	DIP STICK
20	100183	2	FITT2P-12P000000-000S007
21	100423	3	FITT2P-08P000000-000S007
22	110444	6	TRANSMISSION OIL / GAL.
23	400691	4	RETAINING RING
24	100559	6	.25 LOCK WASHER
25	130203	1	FITT2S-06P06P000-0300401
26	400845	1	BREATHER
27	100229	1	GREASE FITTING
28	110143	1	FITT2S-06Q06Q000-000H001
29	400357	1	FITT2S-08P06Q000-000H001
30	400965	1	SHIELD GASKET

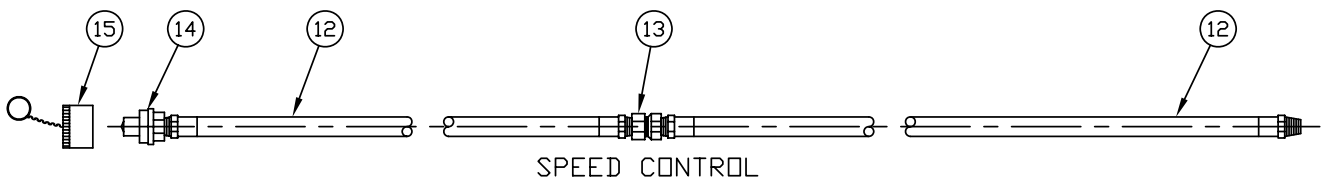
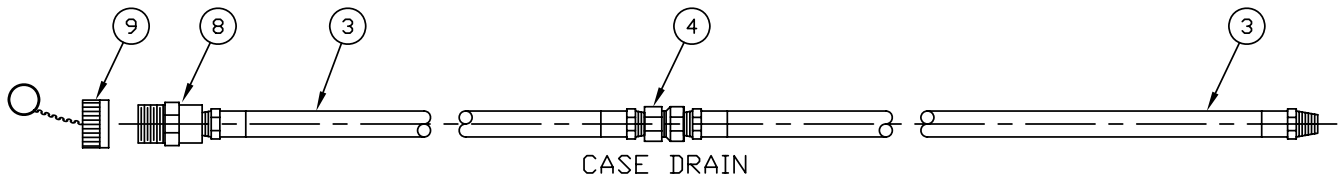
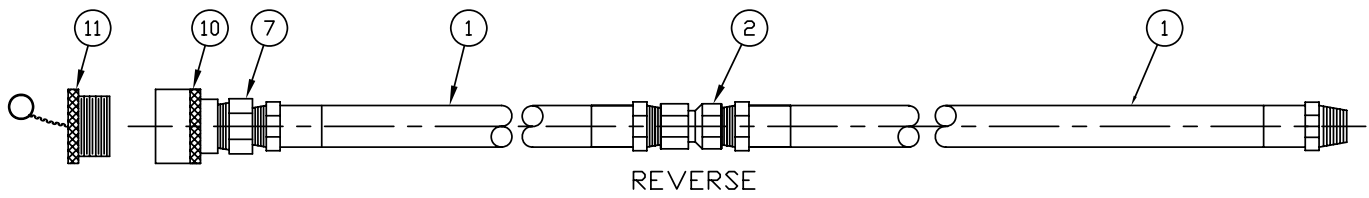
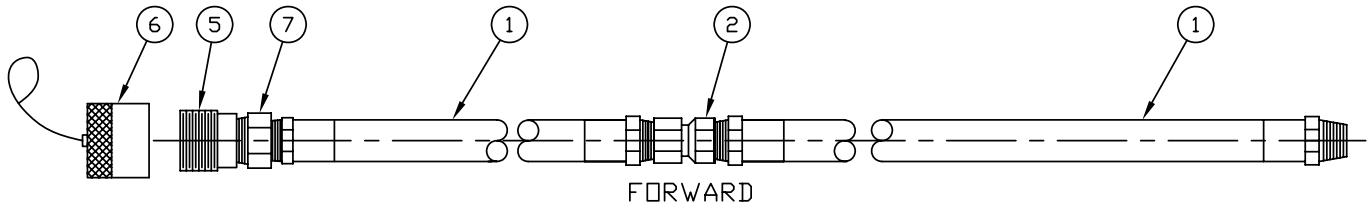


MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

INTERCONNECTING HOSE ASSEMBLY

800531





MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

INTERCONNECTING HOSE ASSEMBLY

800531

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	100233	4	HOSE125PT4P020P020L60000
2	100235	2	FITT2S-20Q20N000-000H001
3	100241	2	HOSE075R09P012P012L62000
4	100243	1	FITT2S-12Q12N000-000H001
5	110690	1	1.50 MALE DISCONNECT
6	110955	1	1.50 DUST CAP
7	400159	2	FITT2S-24P20Q000-000H001
8	400251	1	.75 MALE DISCONNECT
9	400253	1	.75 DUST CAP
10	110692	1	1.50 FEMALE DISCONNECT
11	110957	1	1.50 DUST PLUG
12	100247	2	HOSE038R02P006P006L62000
13	100249	1	FITT2S-06Q06N000-000H001
14	100245	1	.375 MALE DISCONNECT
15	100257	1	.375 DUST CAP
16	130243	10	RUBBER TIE DOWN

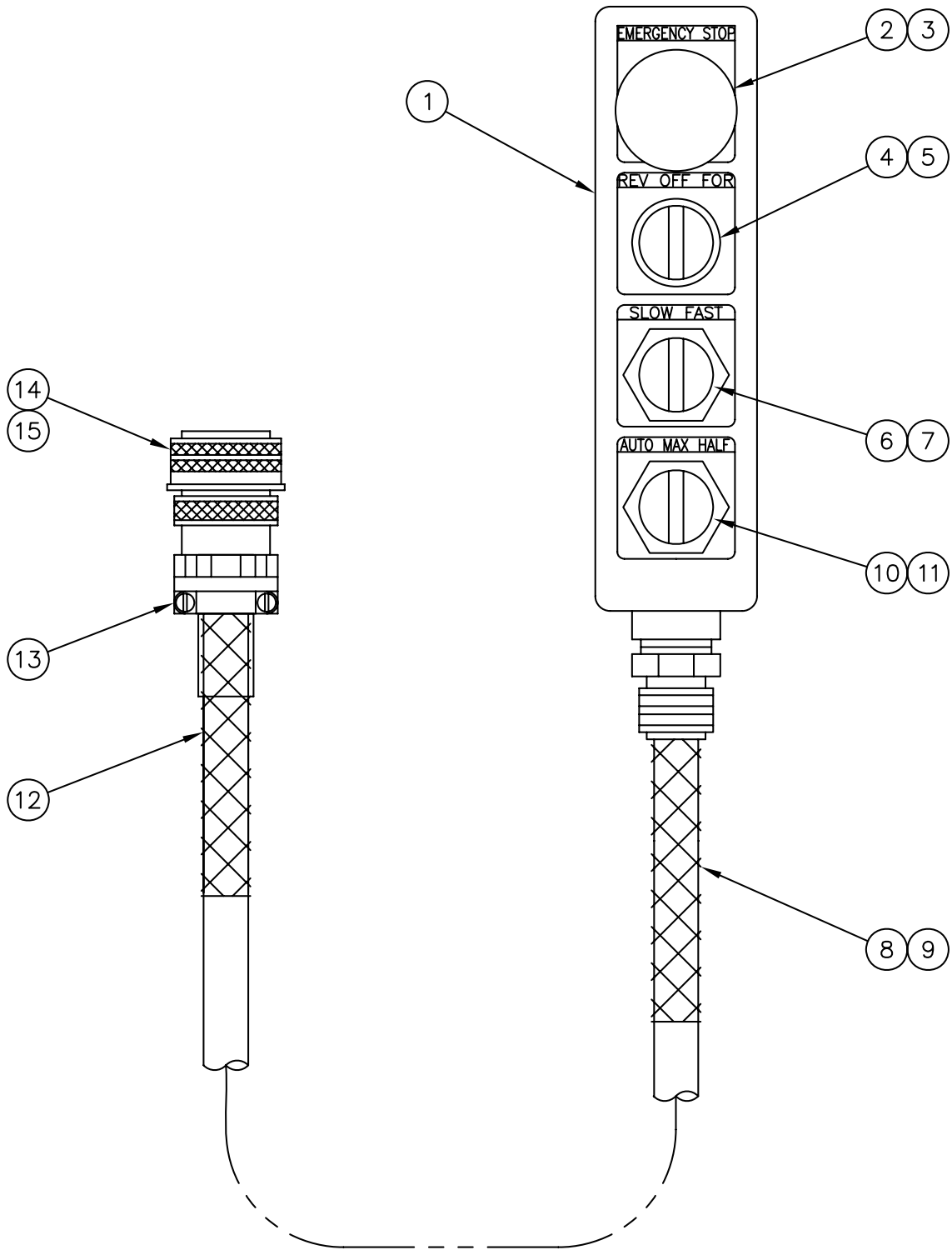


MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

PENDANT ASSEMBLY

810933





MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

PENDANT ASSEMBLY

810933

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	130153	1	PENDANT ENCLOSURE
2	130509	1	EMERGENCY STOP LABEL
3	130507	1	EMERGENCY STOP BUTTON
4	100864	1	REV-OFF-FOR NAMEPLATE
5	130155	1	SWITCH
6	100562	1	SLOW-FAST NAMEPLATE
7	100566	1	SWITCH
8	110603	1	1.0 STRAIN RELIEF
9	100560	50	PENDANT CABLE/FT
10	400720	1	AUTO-MAX-HALF LABEL
11	400718	1	SWITCH 3 POSITION
12	170839	1	CORD GRIP PLUG END
13	170897	1	RECEPTACLE CLAMP
14	170895	1	PENDANT RECEPTACLE
15	170899	1	PENDANT RECEPTACLE COVER

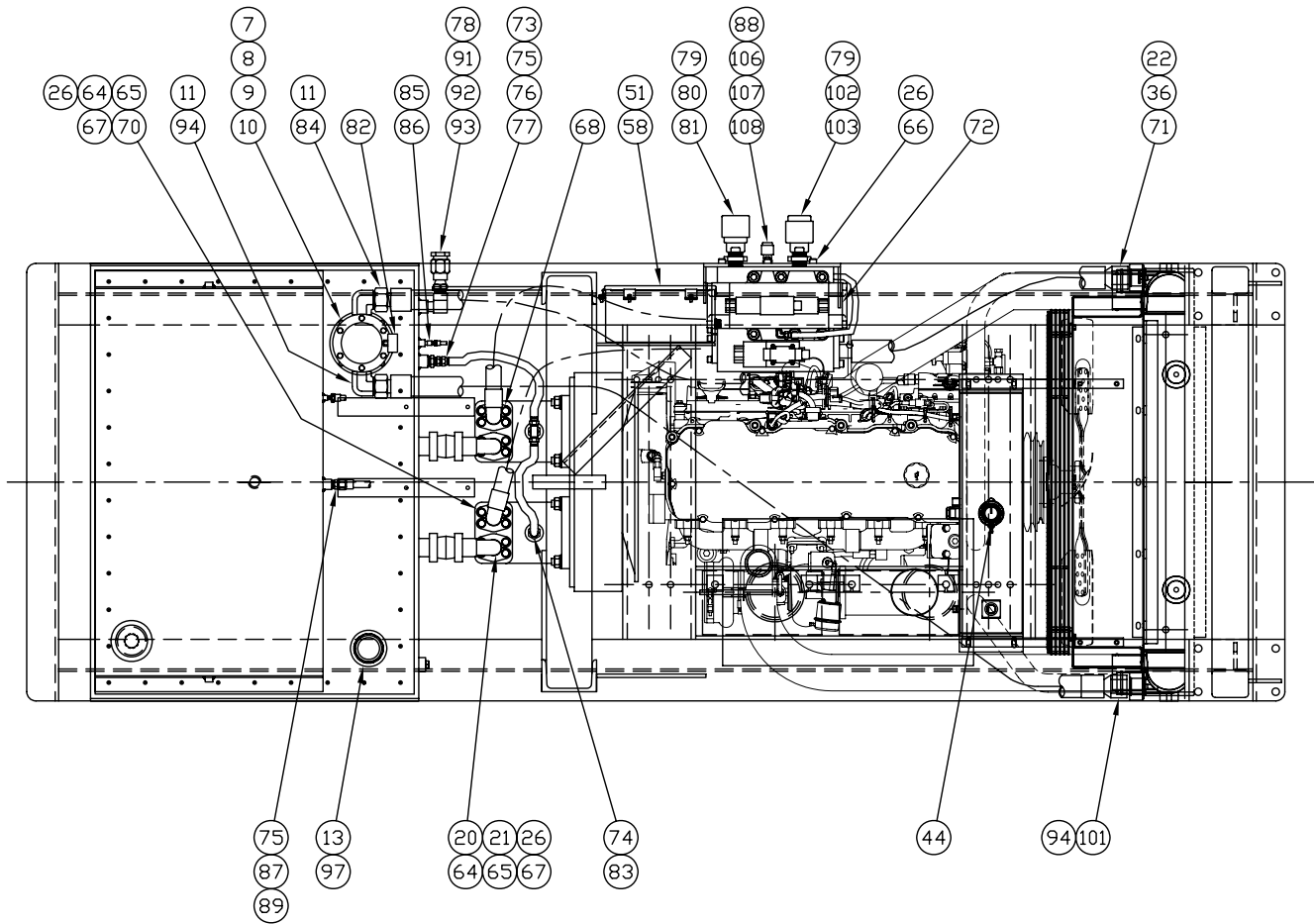


MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

POWER UNIT ASSEMBLY

800437



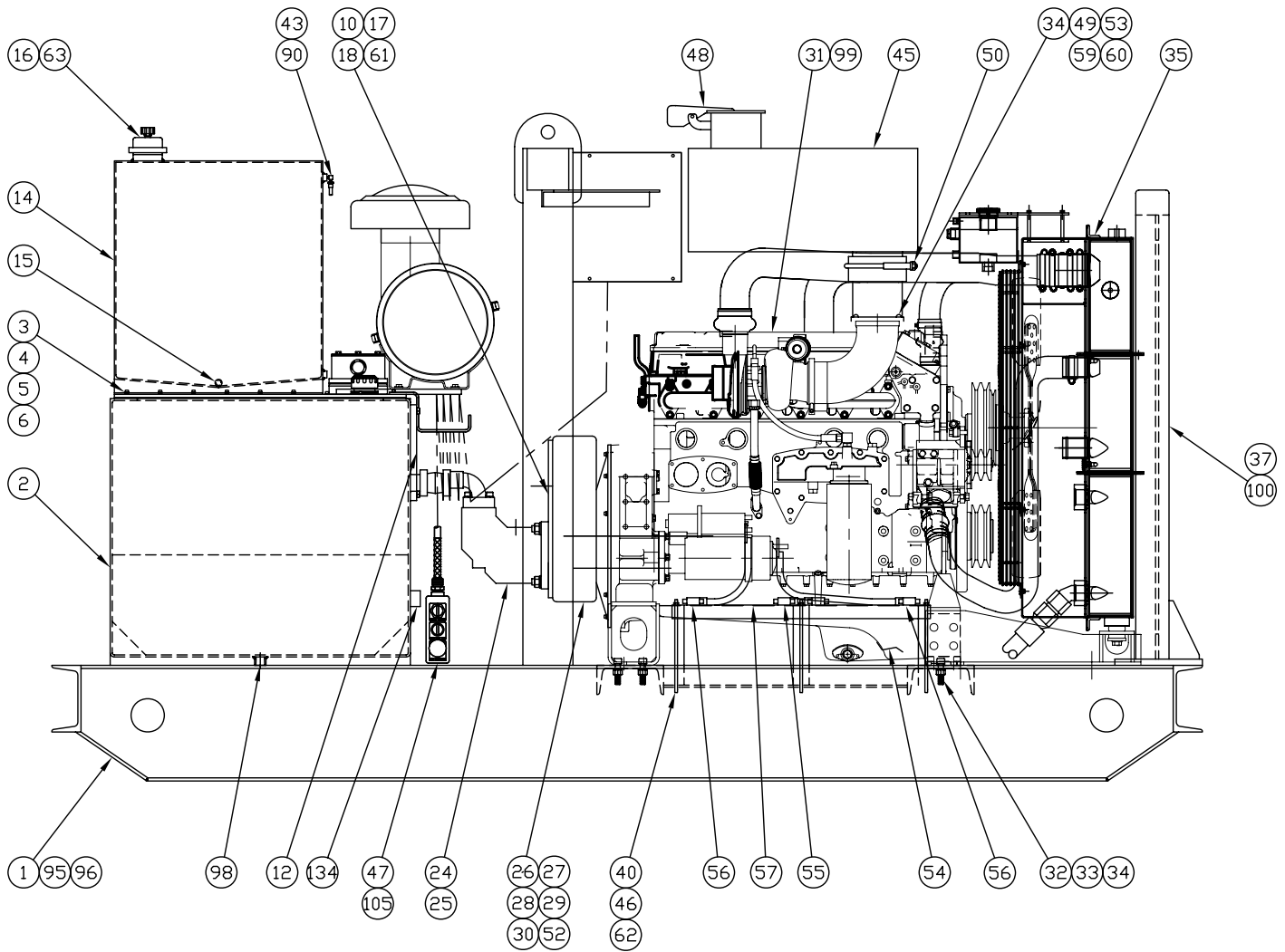


MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

POWER UNIT ASSEMBLY

800437





MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

POWER UNIT ASSEMBLY

800437

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	400752	1	315 Skid Subbase
2	400754	1	315 Hyd Reservoir
3	400958	1	Reservoir Cover
4	400956	1	Reservoir Cover Gasket
5	100595	39	.25-20 X 1.25 Lg SHCS
6	100559	38	.25 Lock Washer
7	400085	1	Return Filter Asm.
8	810119	2	K25 Element Assembly
9	100143	6	.375-16 X 1.25 Lg Shcs Loc Wel
10	400149	15	.375 Lock Washer
11	100588	2	FITT2L-24M24P000-0000001
12	400916	1	Sight Gage
13	300563	1	Breather/Filler
14	400914	1	Fuel Tank
15	100423	2	FITT2P-08P000000-000S007
16	100417	1	FITT2C-48Q000000-0000306
17	100700	2	.375-16 UNC X 1.25 HHCS
18	400724	1	Pump Pad Cover
19	100631	1	.25-20 X 2.00 Lg SHCS
20	100458	2	90 Deg. Flanged Adapter 20ph
21	100454	2	2"Tube Flex Master
22	170768	1	FITT2S-24M24R000-0000001
23	110244	1	Tube
24	100406	2	Main Pump(F12-110)
25	100782	8	.75-10 Flange Nut
26	100121	27	.5 Lock Washer Medium
27	100512	1	Multi-Pump Adapter
28	100462	12	.437-14 UNC X 1.25 Lg HHCS
29	100443	12	.437 Lock Washer
30	100445	8	.5-13 X 1.00 Lg Shcs Loc Wel
31	170907	1	C9 Diesel Engine
32	100085	6	.625-11 X 2.25 Lg SHCS
33	100086	6	.625-11 Esna Nut
34	100007	10	.625 Lock Washer-Medium
35	170925	1	Triple Core Cooler
36	170766	1	FITT2L-24J24M000-0000001
37	400755	1	Radiator Guard
38	400900	8	.312-18 UNC X 1.50 Lg HHCS
39	100289	22	.312-18 Hex Nut
40	100293	33	.312 Flat Washer



MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

POWER UNIT ASSEMBLY

800437

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
41	100287	22	.312 Lock Washer
42	100051	6	.375-16 X 1.0 Lg SHCS Loc Wel
43	100145	1	FITT2L-04M04P000-0000001
44	100726	7	Antifreeze/Gal
45	170762	1	Muffler
46	100831	3	.312 Wing Nut
47	810933	1	315 Pendant Asm w/ Plug
48	140411	1	5.0 Rain Cap
49	400892	1	Exhaust Adapter
50	140369	3	5 In. U-Clamp
51	810935	1	315 Engine Junction Box
52	110444	2	Transmission Oil / Gal.
53	110225	4	.625-11 X 1.50 Lg BHCS
54	400890	2	Battery
55	110653	1	Battery Cable-6
56	100537	2	Battery Cable-24"
57	400888	1	Battery Holddown
58	110229	3	S/O Cord 6' Lg
59	100273	4	.625-11 Hex Nut
60	400886	1	Exhaust Adapter Gasket
61	400151	8	.375 Flat Washer
62	400231	3	Hold Down Stud
63	400845	1	Breather
64	110986	8	#20 Ph Split Flange Half
65	100037	4	2-222 O-Ring 90 Duro
66	100119	3	.5-13 X 1.25 Lg Shcs Loc Wel
67	400739	16	.5-13 UNC X 2.00 Lg HHCS
68	400734	1	HOSE100PT4H920F020L03200
69	150179	6	.312-18 X .75 HHCS
70	400736	1	HOSE100PT4H920F020L03800
71	400726	1	HOSE150R01J024F02406100
72	810737	1	315 Control Manifold Asm
73	400409	1	FITT2S-12P08Q000-000H001
74	110265	1	HOSE050R01J008J008L02400
75	110173	1	FITT2S-08M08P000-000H001
76	140757	1	FITT2T-08M08M08J-000H001
77	100486	1	HOSE050R01J008J008L01450
78	120049	1	FITT2S-12P12P000-000H001
79	110037	2	FITT2S-24P24P000-000H001
80	110690	1	1.50 Male Disconnect



MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST



MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

POWER UNIT ASSEMBLY

800437

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
81	110955	1	1.50 Dust Cap
82	100436	1	Gage (0-60 Psi.)
83	110325	2	FITT2S-12R08M000-000H001
84	100482	1	HOSE150R02J024J024L07200
85	110203	1	FITT2S-04M04P000-000H001
86	110805	1	HOSE019R01J004J004L05500
87	100787	1	FITT2L-08M08R000-000H001
88	400728	1	HOSE038R01J006J006L01900
89	400854	1	HOSE050R01J008J008L12000
90	100319	1	HOSE025R02J004J004L16000
91	400773	1	FITT2L-12P12Q000-0000306
92	400095	1	.75 Female Disconnect
93	400121	1	.75 Dust Plug
94	100500	1	HOSE150R01J024J024L11800
95	100299	2	Primer/Gal
96	100298	2	APE / J&M Yellow Paint/Gal
97	140415	232	Hydraulic Fluid/Gal
98	100183	1	FITT2P-12P000000-000S007
99	400247	28	Engine Oil/Quart
100	400760	1	Radiator Grate
101	170764	1	FITT2V-24M24R000-000H001
102	110692	1	1.50 Female Disconnect
103	110957	1	1.50 Dust Plug
104	100422	2	.25-20 UNC Esna Nut
105	400732	1	Pendant Wire Hanger
106	100383	1	FITT2S-06P06B000-000H001
107	100777	1	.375 Female Disconnect
108	100737	1	.375 Dust Plug

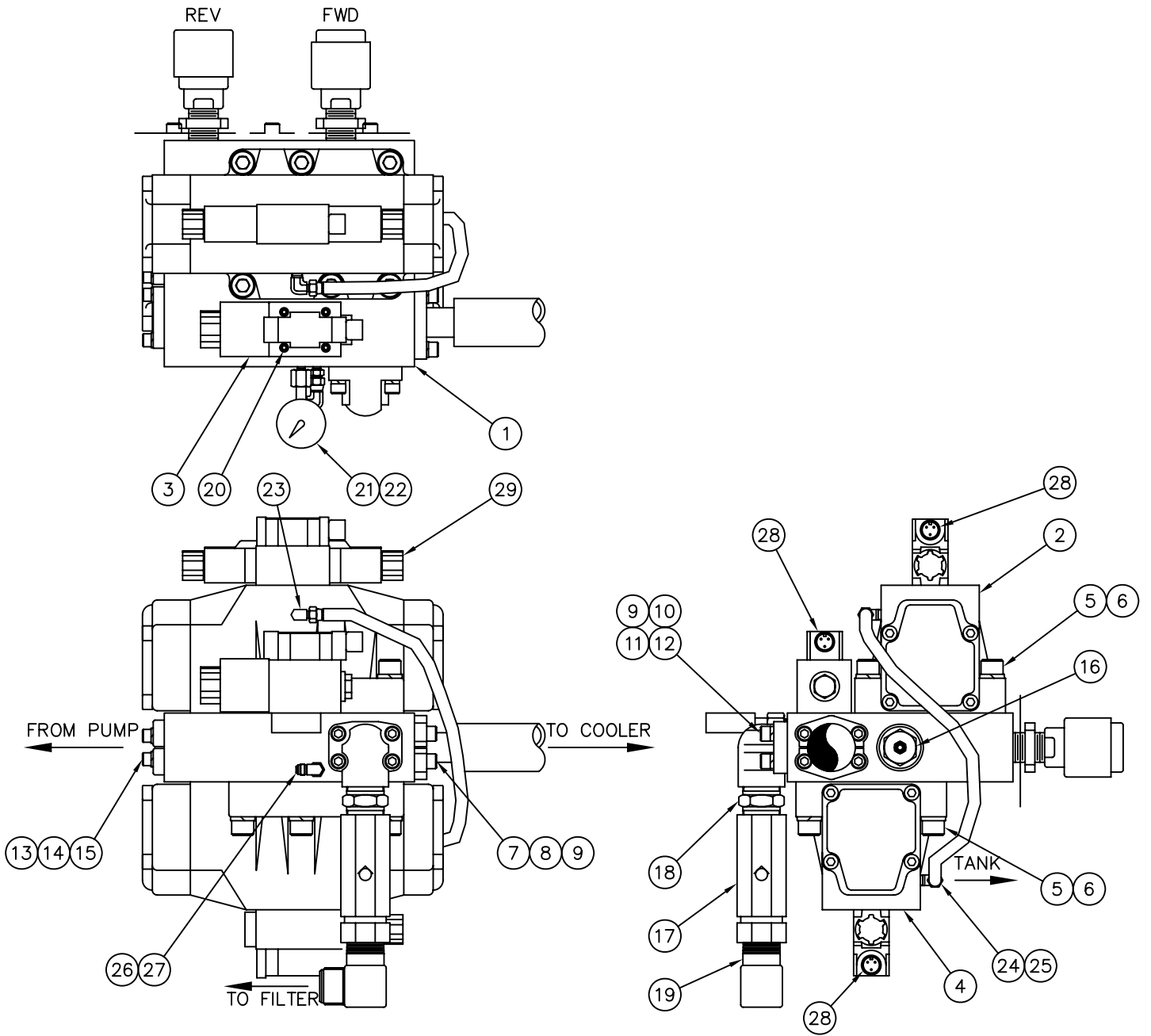


MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

CONTROL MANIFOLD ASSEMBLY

810737





MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

CONTROL MANIFOLD ASSEMBLY

810737

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	400756	1	DRIVE MANIFOLD
2	400786	1	4-WAY VALVE - 24V
3	400738	1	SOLENOID VALVE
4	400740	1	SEQUENTIAL VALVE
5	110690	12	.75-10UNC X 2.75 LG SHCS
6	100069	12	.75 LOCK WASHER MEDIUM
7	100596	2	#24 SPLIT FLANGE HALF
8	100119	4	.5-13 X 1.25 LG SHCS LOC WEL
9	110119	2	2-225 O-RING
10	160461	1	#24-90 SOLID FLANGE
11	100163	4	.5-13 X 1.75 LG SHCS LOC WEL
12	100027	4	.5 HI-COLLAR LOCK WASHER
13	100045	4	#20 PA SPLIT FLANGE HALF
14	100037	2	2-222 O-RING 90 DURO
15	100851	8	.438-14 X 1.25 LG SHCS
16	400742	1	RELIEF VALVE
17	130339	1	1.5 CHECK VALVE
18	110037	1	FITT2S-24P24P000-000H001
19	100588	1	FITT2L-24M24P000-0000001
20	110260	4	.25-20 x 2.75 SHCS
21	100825	1	FITT2S-04Q02P000-000H001
22	400850	1	0-6000 PSI GAGE
23	100145	1	FITT2L-04M04P000-0000001
24	100719	1	HOSE025R02J004J004L03000
25	130229	1	FITT2T-04M04M04P-0000001
26	140385	1	FITT2S-06M02P000-000H001
27	400411	1	FITT2L-06M06J000-000H001
28	110237	3	STR S/O CORD ADAPTER
29	110618		SOLENOID FOR 400786 IT 2

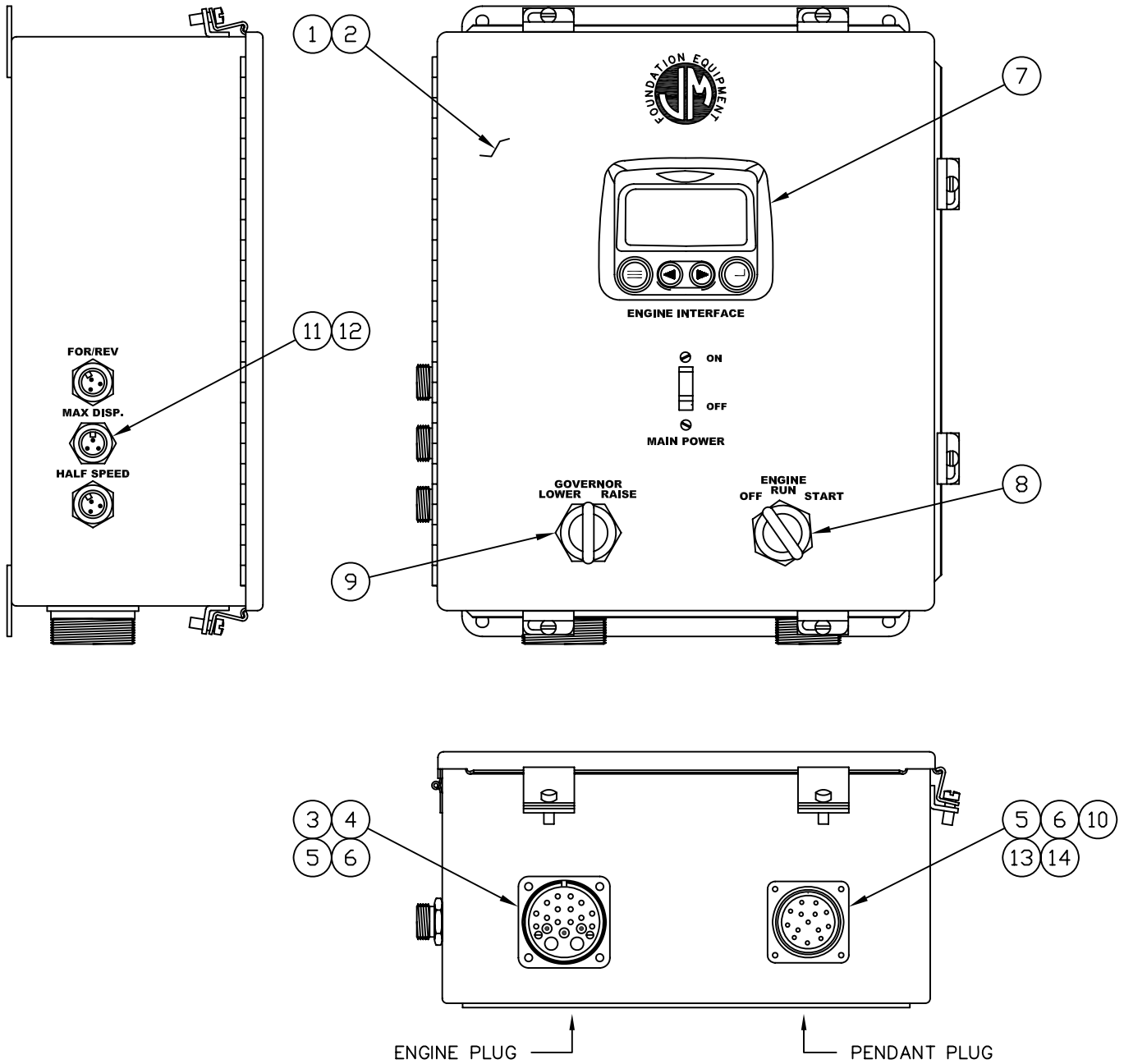


MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

CONTROL PANEL ASSEMBLY

810935





MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

CONTROL PANEL ASSEMBLY

810935

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	170900	1	ENCLOSURE
2	170898	1	FACEPLATE LABEL
3	170845	1	ENGINE RECEPTACLE
4	170847	1	ENGINE RECEPTACLE GASKET
5	110754	8	#6-32 X 0.375 LG RHMS
6	110696	8	#6 LOCK WASHER
7	170896	1	ENGINE INTERFACE PANEL
8	110615	1	ENGINE CONTROL SWITCH
9	100566	1	GOVERNOR RAISE / LOWER SWITCH
10	170861	1	PENDANT RECEPTACLE COVER
11	170849	3	S/O CORD RECEPTACLE
12	110843	3	0.50 LOCK NUT
13	170857	1	PENDANT RECEPTACLE
14	170859	1	PENDANT RECEPTACLE GASKET

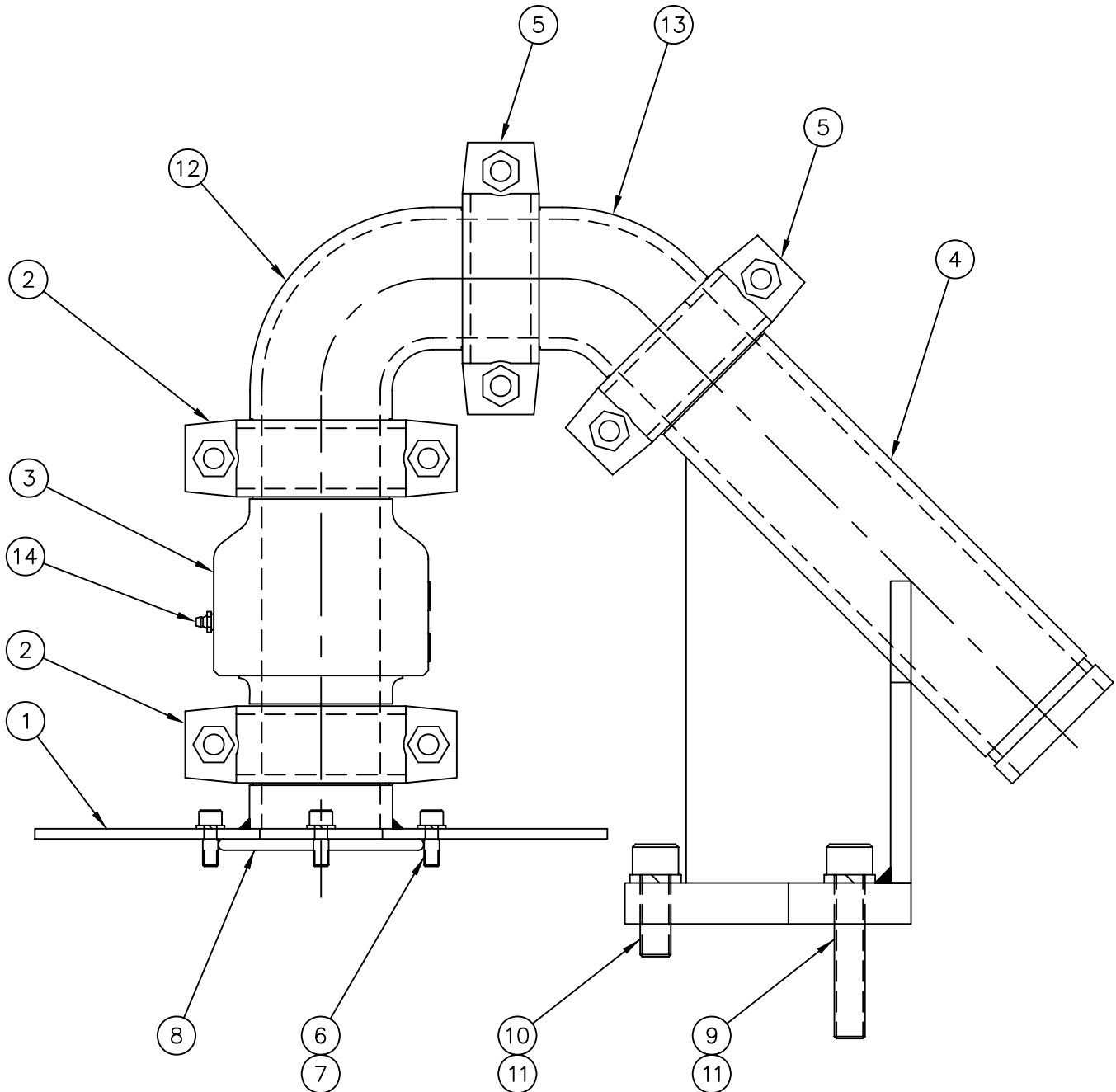


MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

3" ROTARY JOINT ASSEMBLY

800363





MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST

3" ROTARY JOINT ASSEMBLY

800363

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	170900	1	ENCLOSURE
2	170898	1	FACEPLATE LABEL
3	170845	1	ENGINE RECEPTACLE
4	170847	1	ENGINE RECEPTACLE GASKET
5	110754	8	#6-32 X 0.375 LG RHMS
6	110696	8	#6 LOCK WASHER
7	170896	1	ENGINE INTERFACE PANEL
8	110615	1	ENGINE CONTROL SWITCH
9	100566	1	GOVERNOR RAISE / LOWER SWITCH
10	170861	1	PENDANT RECEPTACLE COVER
11	170849	3	S/O CORD RECEPTACLE
12	110843	3	0.50 LOCK NUT
13	170857	1	PENDANT RECEPTACLE
14	170859	1	PENDANT RECEPTACLE GASKET



MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST



**MODEL 55AT
TOP DRIVE
EARTH AUGER**

PARTS LIST

F. 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 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 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.



MODEL 55AT
TOP DRIVE
EARTH AUGER

PARTS LIST