



PARTS MANUAL

Guided Boring Machine

**GBM S/N: 240A (FA40027F),
308A (FA40032F) & 339A (FA43500F)**

**Power Pack SN: P100Q (FA42440F),
P100E (FA40039F) & P150Q (FA40035F)**

**Powered Cutter Head SN: PCH 20 (FA43100F),
PCH 22.5 (FA42850F), PCH 28.5 (FA43000F) &
PCH 30.5 (FA47952F)**

**Powered Reaming Head SN: FA45200F (14"-16"-20" OD)
Powered Reaming Head 20k SN: FA48030F (24"-30.5" OD)**

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Introduction

This parts manual contains assembly illustrations of the Akkerman Guided Boring Machine (GBM). The illustrations in this manual are intended to show typical construction of various parts. In some instances, the details of parts illustrated may not exactly represent their actual appearance, but will help to identify parts performing the same functions. Additional copies of this manual may be purchased from the Akkerman Aftermarket Support Department, or downloaded from the Akkerman web site at www.akkerman.com.

The GBM system consists of three jacking frames (the 240A single stage frame for stand alone or auger boring operation, and two latching frames 308A and 339A for launch shafts a minimum of 8 feet inside diameter or larger), P100Q, P100E and P150Q Power Packs, guidance system, powered cutter head, powered reaming head and tooling.

LOCATING PARTS

This parts manual is organized into 13 sections to help you locate parts information quickly. The first page of each section lists the assemblies within the section.

An Alphabetical Index, Section 12, is provided to help you find the page number of a specific assembly. If a part number is known, the Numerical Index, Section 13, can also be utilized to find the page number of an assembly.

USE GENUINE AKKERMAN PARTS

The use of parts other than genuine Akkerman parts could affect the efficient performance of the Guided Boring Machine. ALWAYS use genuine Akkerman parts.

PARTS ORDERING

To order fast, accurate, and reliable parts service, call (800) 533-0386, (507) 567-2261, or fax (507) 567-2605, and provide the following information.

1. Model Number
2. Serial Number
3. Part Number, Description, and Quantity
4. Shipping Preference

MEASUREMENTS

The unit of measure in this manual is in inches unless indicated otherwise.

HARDWARE SPECIFICATION

All Akkerman products are assembled with SAE Grade 8 bolts, nuts, and washers. ALWAYS use matched fastener hardware when replacing or repairing the unit.

If you find any errors in this manual or have suggestions for improvement, please let us know. Email your comments via the Akkerman web site (Contact Us web page), or mail your suggestions to: Akkerman Inc., ATTN: Technical Publications, 58256 266th Street, Brownsdale, MN, 55918.

Akkerman Inc. reserves the right to improve its product without notice or obligation.



Guided Boring Machine

NOTES



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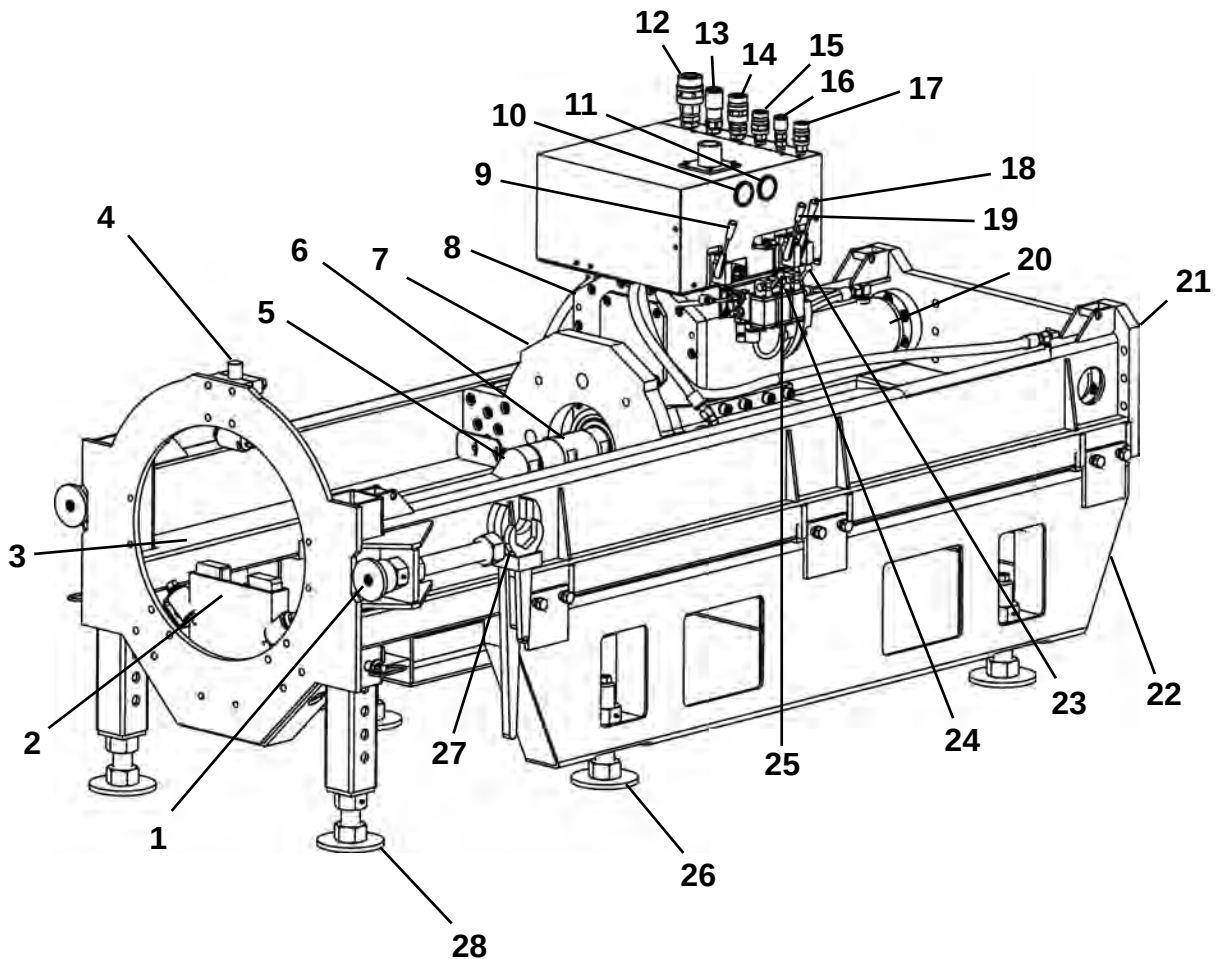
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GBM SINGLE STAGE FRAME 240A

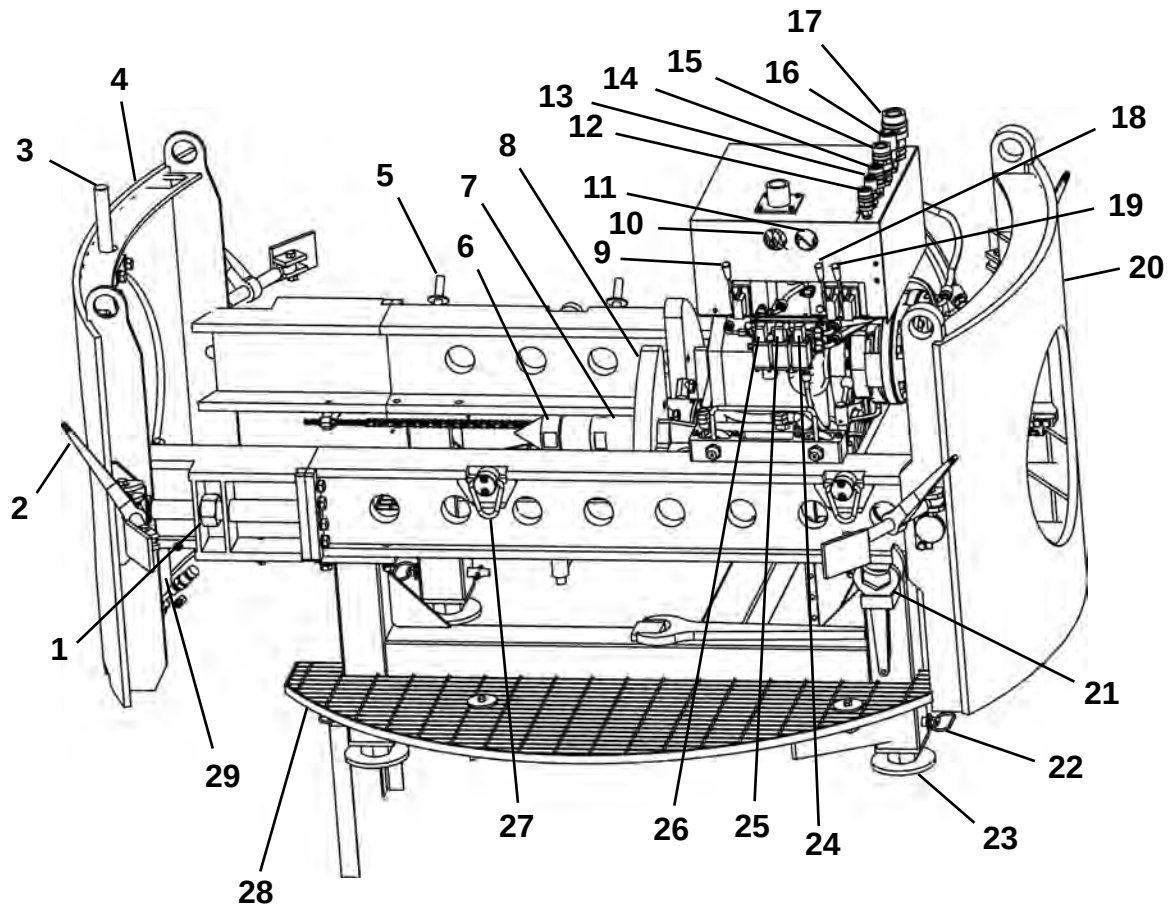


1. Shaft Tensioner
2. Hydraulic Make Up Tool
3. Drilling Guide
4. Roller Bracket Assembly
5. Alignment Guide Adapter
6. Drive Swivel
7. Thrust Plate
8. Thrust Frame Assembly
(includes Gear Box)
9. Thrust Cylinder Control

10. Thrust Pressure Gauge
11. Rotation Pressure Gauge
12. Return Line Connector
13. Thrust Pressure Connector
14. Rotation Pressure Connector
15. Case Drain Connector
16. Thrust Load Sense Connector
17. Rotation Load Sense Connector
18. Auxiliary
19. Drive Rotation Control

20. Thrust Cylinders
21. Drilling Frame
22. Lower Base Frame Assembly
23. Auxiliary
24. Drive Speed Selector
25. Make Up Tool
26. Leveling Assembly
27. Wrench Set
28. Stabilizer Leg

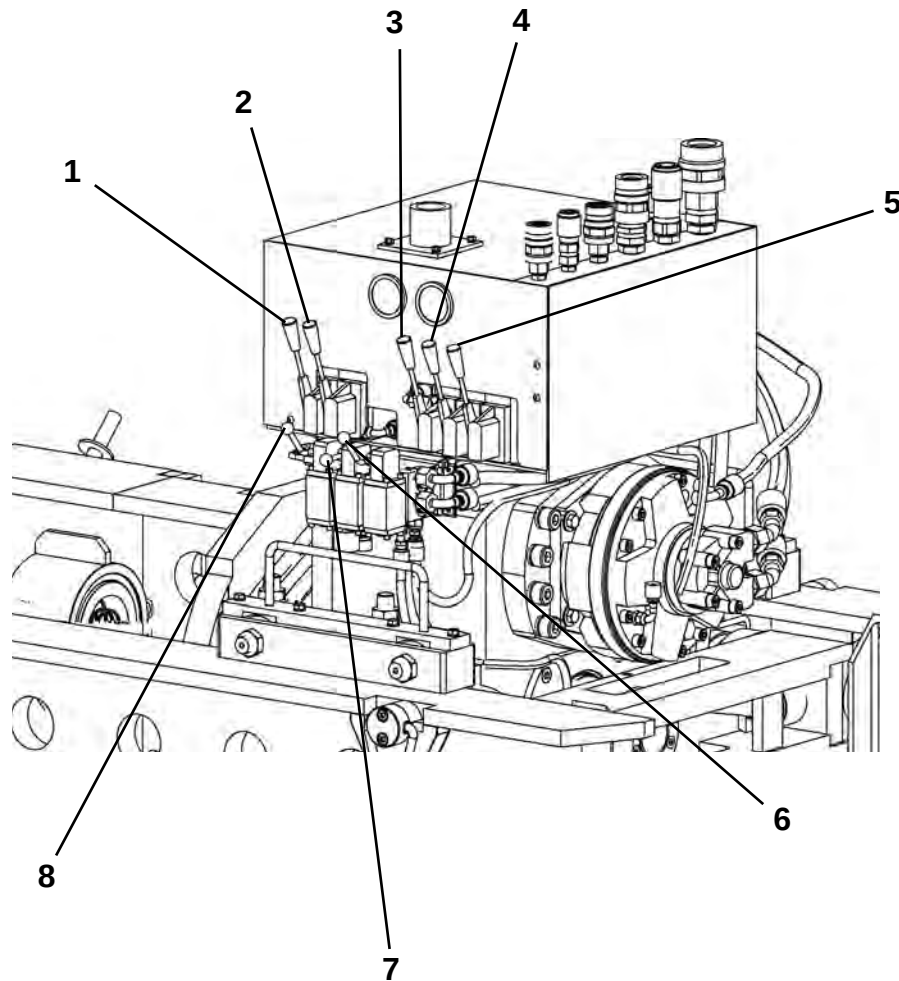
GBM LATCHING FRAME 308A (SN FA40032F-20* & BEFORE)



1. Shaft Tensioner	10. Thrust Pressure Gauge	20. Back Adapter Plate
2. Shaft Tensioner	11. Rotation Pressure Gauge	21. Wrench Set
3. Casing Roller Bracket	12. Rotation Load Sense Connector	22. Height Adjustment
4. Front Adapter Plate	13. Thrust Load Sense Connector	23. Leveling Assembly
5. Pilot Tube Holder	14. Case Drain Connector	24. Hydraulic Latching Control
6. Alignment Guide Adapter	15. Rotation Pressure Connector	25. Drive Speed Rotation Control
7. Drive Swivel	16. Thrust Pressure Connector	26. Make Up Tool Control
8. Thrust Plate	17. Return Line Connector	27. Lifting Hook
9. Thrust Cylinder Control	18. Drive Rotation Control	28. Operator Platform
	19. Travel Motor Control	29. Hydraulic Make Up Tool

* Some units have been updated with the Powered Cutter Head Valve Package option.

POWERED CUTTER HEAD VALVE PACKAGE OPTION FOR 308A (SN FA40032F-20* & BEFORE)



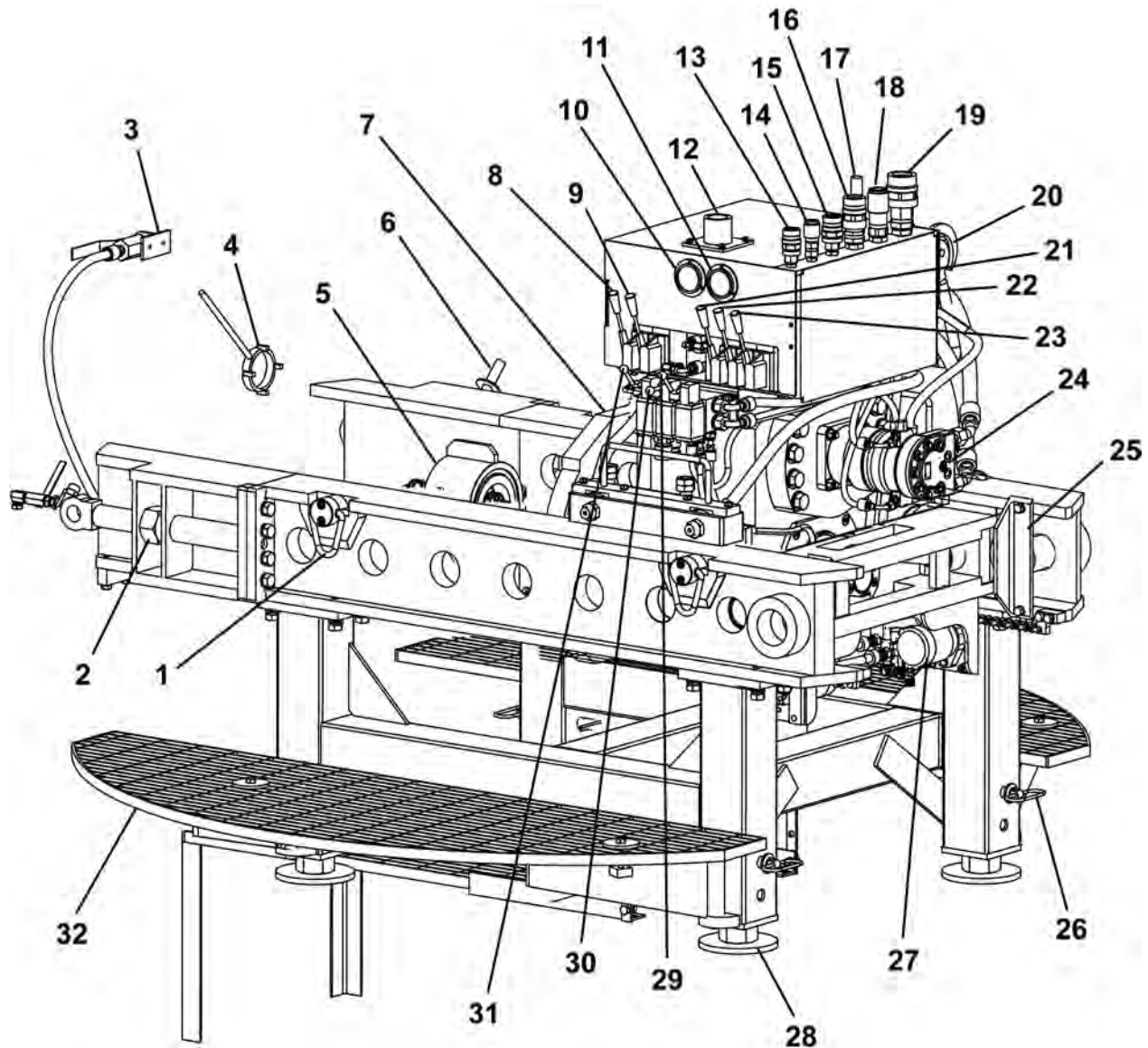
- 1. Thrust Cylinder Control
- 2. Power Cutter Head Rotation Control
- 3. Drive Rotation Control
- 4. Power Cutter Head Auger Control

- 5. Travel Motor (Latching Frame Only)
- 6. Latching Mechanism Control
- 7. Drive Speed Control
- 8. Make Up Tool Control

* Some units have been updated with the Powered Cutter Head Valve Package option.

GBM LATCHING FRAME 308A (SN FA40032F-21 & AFTER) & 339A (SN FA43500F-01 THRU 06)

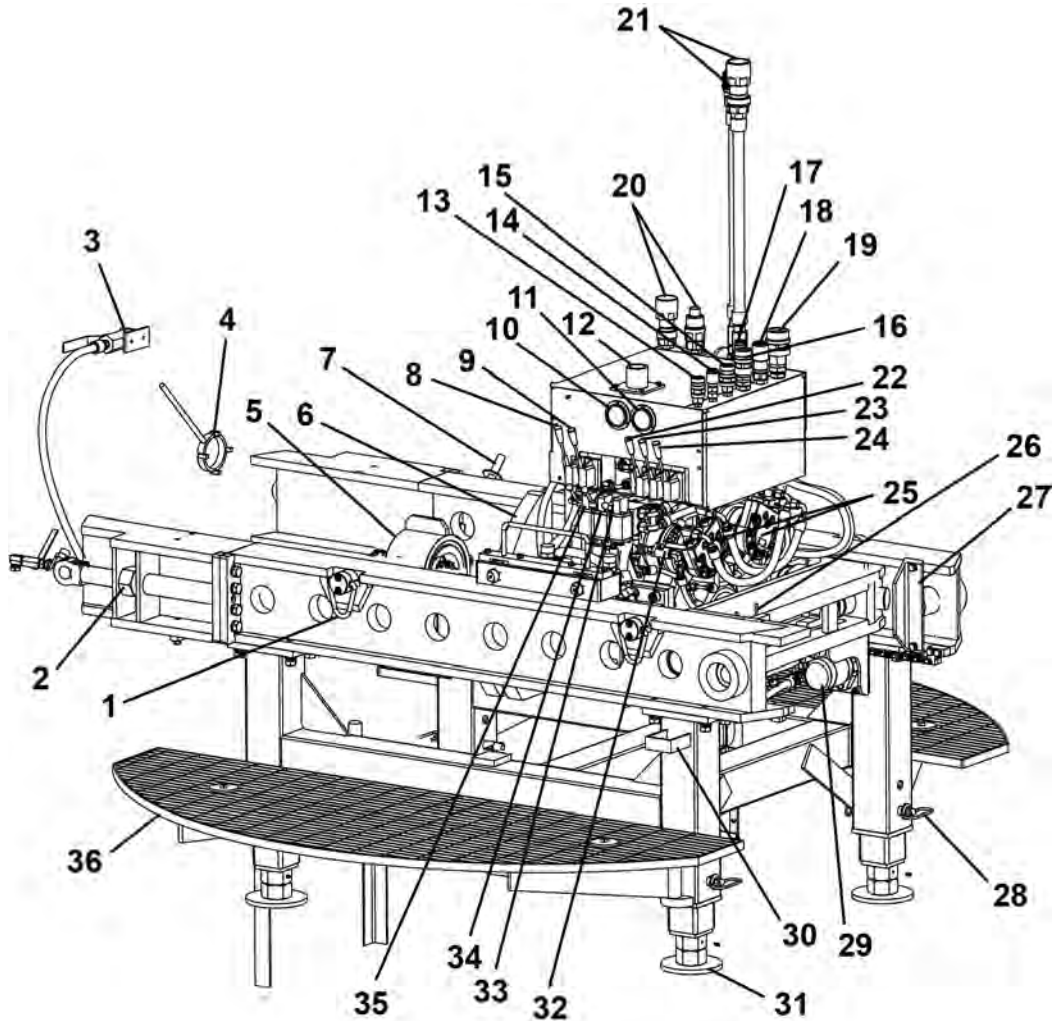
Shown without front and rear adapter plates.



1. Lifting Hook	12. Guidance System Mount	23. Travel Motor Control (Latching Frame Only)
2. Shaft Tensioner	13. Rotation Load Sense Connector	24. Drive Motor
3. Fluid Control	14. Thrust Load Sense Connector	25. Travel Stop Bracket
4. Spindle Nut Wrench	15. Case Drain Connector	26. Height Adjustment
5. Drive Swivel	16. Rotation Pressure Connector	27. Travel Motor
6. Pilot Tube Holder	17. PCH Case Drain Connector	28. Leveling Assembly
7. Thrust Plate	18. Thrust Pressure Connector	29. Hydraulic Latching Control
8. Thrust (Jacking) Cylinder Control	19. Return Line Connector	30. Drive Speed Rotation Control
9. Powered Cutter Head Rotation Cntrl	20. PCH Quick Disconnect	31. Make Up Tool Control
10. Thrust Pressure Gauge	21. Drive Rotation Control	32. Operator Platform
11. Rotation Pressure Gauge	22. Power Cutter Head Auger Cntrl	

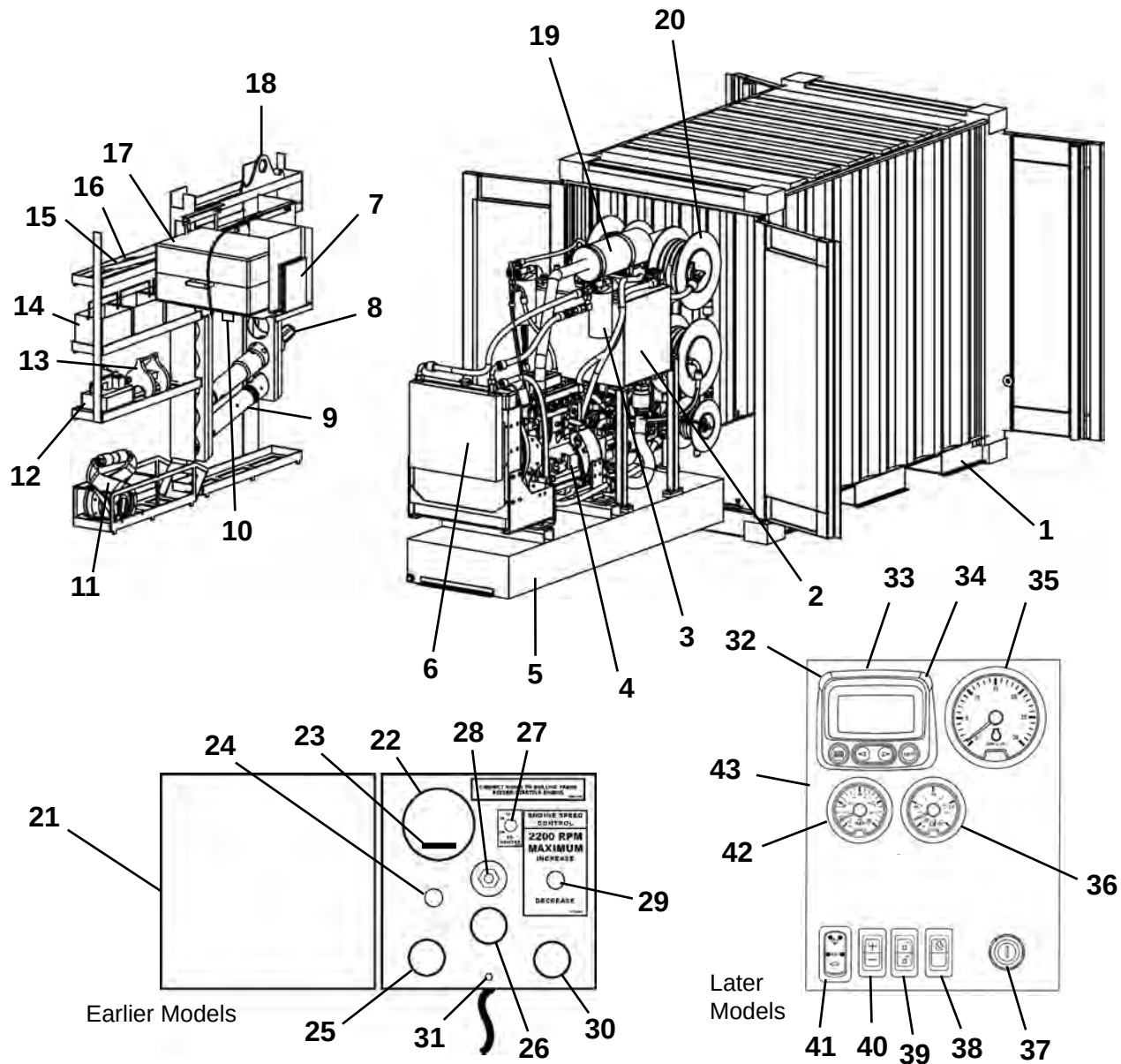
GBM LATCHING FRAME 339A (SN FA43500F-07 & AFTER)

Shown without front and rear adapter plates.



1. Lifting Hook	14. Thrust Load Sense Connector	26. Latching Pin Indicators
2. Shaft Tensioner	15. Case Drain Connector	27. Travel Stop Bracket
3. Fluid Control	16. Rotation Pressure Connector	28. Height Adjustment
4. Spindle Nut Wrench	17. PCH Case Drain Connector	29. Travel Motor
5. Drive Swivel	18. Thrust Pressure Connector	30. Wrench Set Bracket
6. Thrust Plate	19. Return Line Connector	31. Leveling Assembly
7. Pilot Tube Holder	20. PCH Cutter Bit Circuit	32. Hi/Low Left Motor Selector
8. Thrust (Jacking) Cylinder Control	21. PCH/PRH Auger Drive Circuit	33. Drive Speed Rotation Control
9. Powered Cutter Head Rotation Cntrl	22. Drive Rotation Control	34. Hydraulic Latching Control
10. Thrust Pressure Gauge	23. Power Cutter Head Auger Cntrl	35. Make Up Tool Control
11. Rotation Pressure Gauge	24. Travel Motor Control (Latching Frame Only)	36. Operator Platform
12. Guidance System Mount	25. Drive Motors	
13. Rotation Load Sense Connector		

NOTES

POWER PACK P100Q

1. Container

2. Hydraulic Reservoir

3. Hydraulic Pressure Filter

4. Engine - 4 cyl 99 hp

5. Fuel Tank

6. Radiator

7. Manual

8. Reaming Head Adapter

9. Steering Head

10. Emergency Stop

11. Dual Tube Breakout Tool

12. Breakout Tool Power Pack

13. Launch Shaft Breakout Tool

14. Storage Basket

15. Pilot Tube Support Bar

16. Pilot Tube Scraper

17. Guidance System

18. Pilot Tube Holder Lifting Bar

19. Muffler

20. Hydraulic Hose Reel

21. Remote Instrument Panel

(Control Pendant)

22. Tachometer

23. Hourmeter

24. Ignition Switch - Start Switch

25. Oil Pressure Gauge

26. Water Temp. Gauge

27.* Monitor Switch

28. Start Button - Override Button

29. Engine Speed Control

30. Battery (Voltmeter) Gauge

31. Fuse Holder

32. Warning Indicator Light

33. Diagnostic Gauge/Hour Meter

34. Stop Engine Indicator Light

35. Tachometer

36. Engine Coolant Temp. Gauge

37. Key Start Switch

38. Override Shutdown Switch

39. Bump Speed Enable Switch

40. Speed Select Switch

41. High-Low Speed Select Switch

42. Engine Oil Pressure Gauge

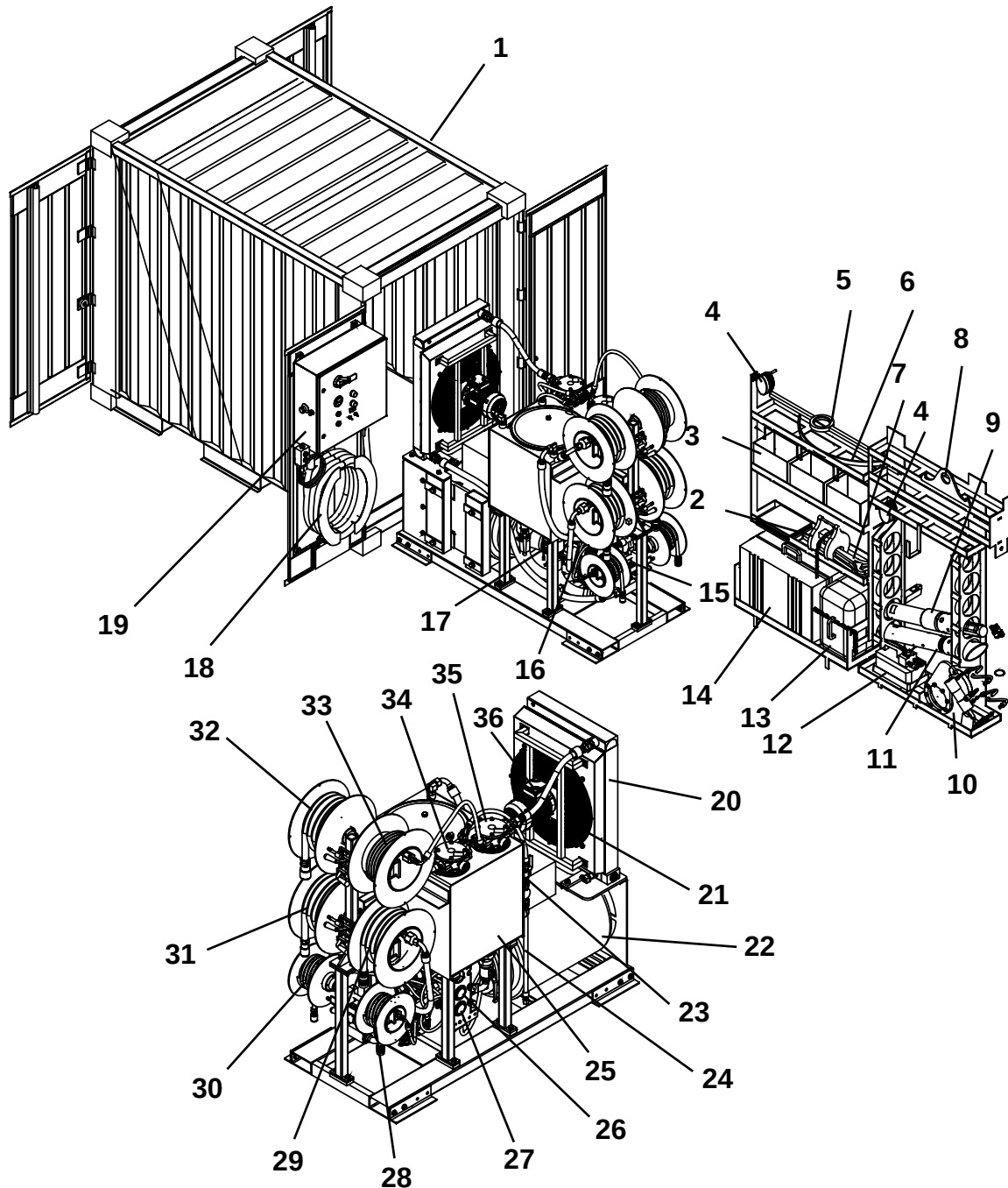
43. Remote Instrument Panel

(Control Pendant)

* SN FA42440F-1 to 68 only. SN FA42440F-69 & after do not have this toggle switch.

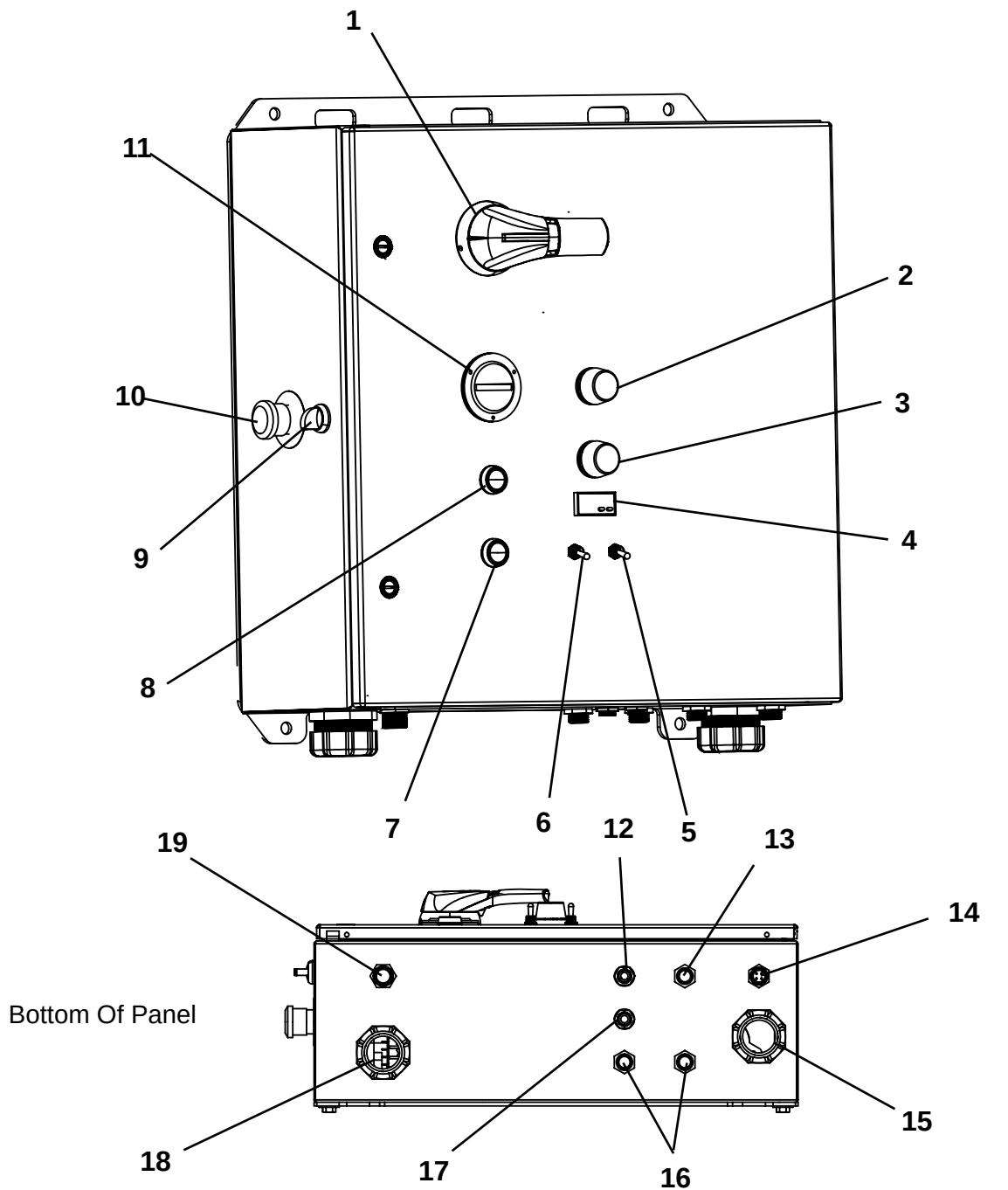
gbmpm050044-fa42440f-p100q_om-terminology.pendantcontrol3

POWER PACK P100E



1. Container	13. Theodolite	25. Hydraulic Oil Reservoir 56 Gal.
2. Launch Shaft Breakout Tool	14. Guidance System	26. Jacking Pressure Gauge
3. Storage Basket	15. Cooling System Pump	27. Rotation Pressure Gauge
4. Light	16. Rotation System Pump	28. Rotation Load Sense Hyd. Hose
5. Pilot Tube Scraper	17. Jacking System Pump	29. Rotation Pressure Hyd. Hose
6. Pilot Tube Support Bar	18. Power Cord Storage	30. Thrust Load Sense Hyd. Hose
7. Wrench Set	19. Control Panel	31. Thrust Pressure Hyd. Hose
8. Pilot Tube Holder Lifting Bar	20. Oil Cooler	32. Return Hyd. Hose
9. Pilot Tube Adapter	21. Cooling Fan	33. Case Drain Hyd. Hose
10. Dual Tube Breakout Tool	22. Electric Motor 100 HP	34. Hydraulic Return Filter
11. Steering Head	23. Oil Transfer Pump	35. Cooling System Return Filter
12. Breakout Tool Power Pack	24. Hydraulic Oil Fill Hose	36. Cooling Fan Motor 1.5 HP

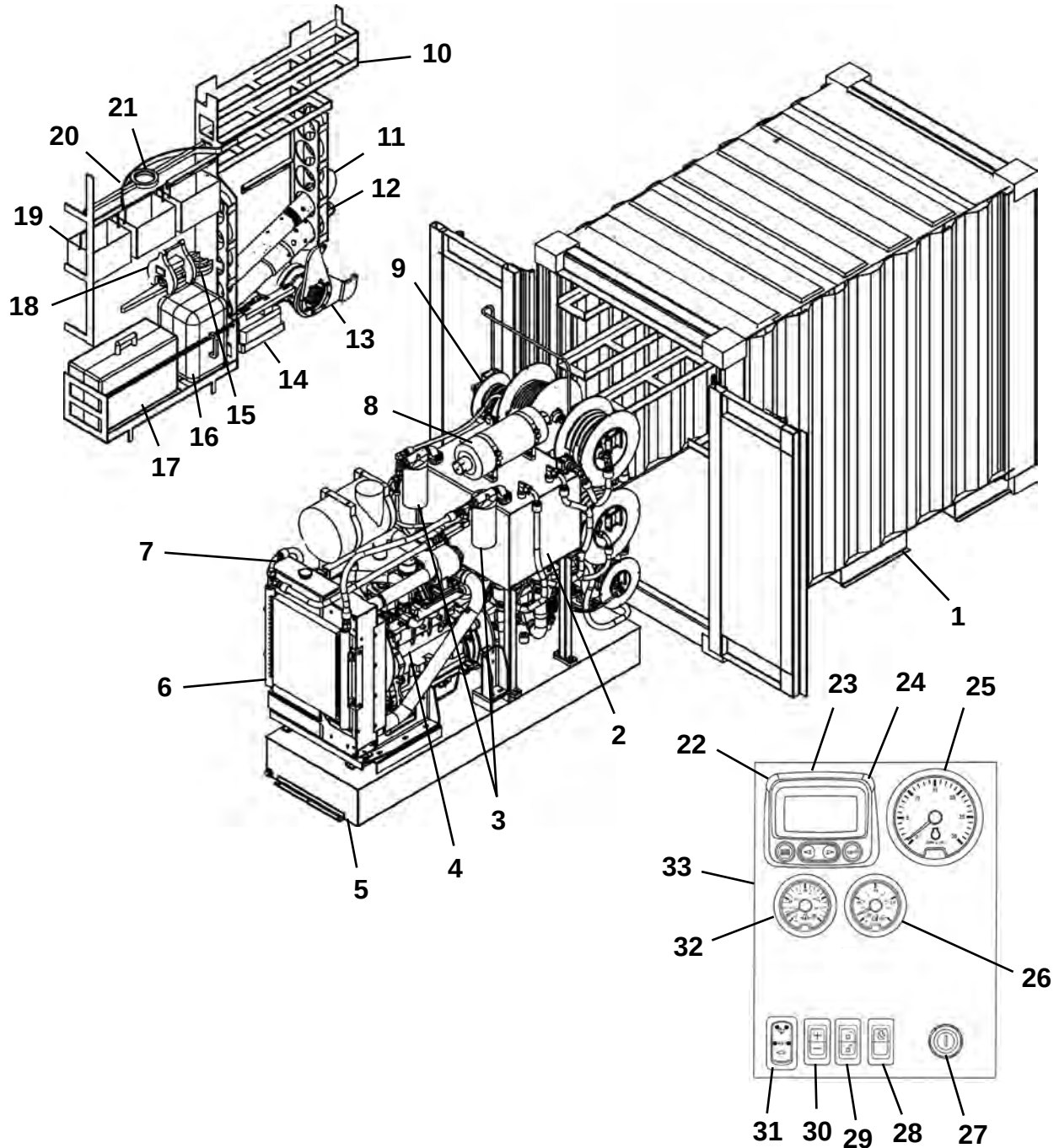
POWER PACK P100E - CONTROL PANEL



1. Main Power Disconnect
2. Phase Indicator - Red Phase Error
3. Phase Indicator - Green Phase OK
4. Motor Load %
5. Light Switch
6. Oil Fill Transfer Pump Power Switch
7. Stop Button
8. Start Button
9. Panel/Pendant Control Power Switch

10. Emergency Stop
11. Electric Motor Hourmeter
12. Oil Temperature Switch Connection
13. Oil Transfer Pump Connection
14. 1.5 HP Cooling Fan Motor Connection
15. 100 HP Electric Motor Connection
16. Lights Connection
17. Oil Level Switch Connection
18. Generator Power Cable
19. Pendant Power Cable Connection

POWER PACK P150Q

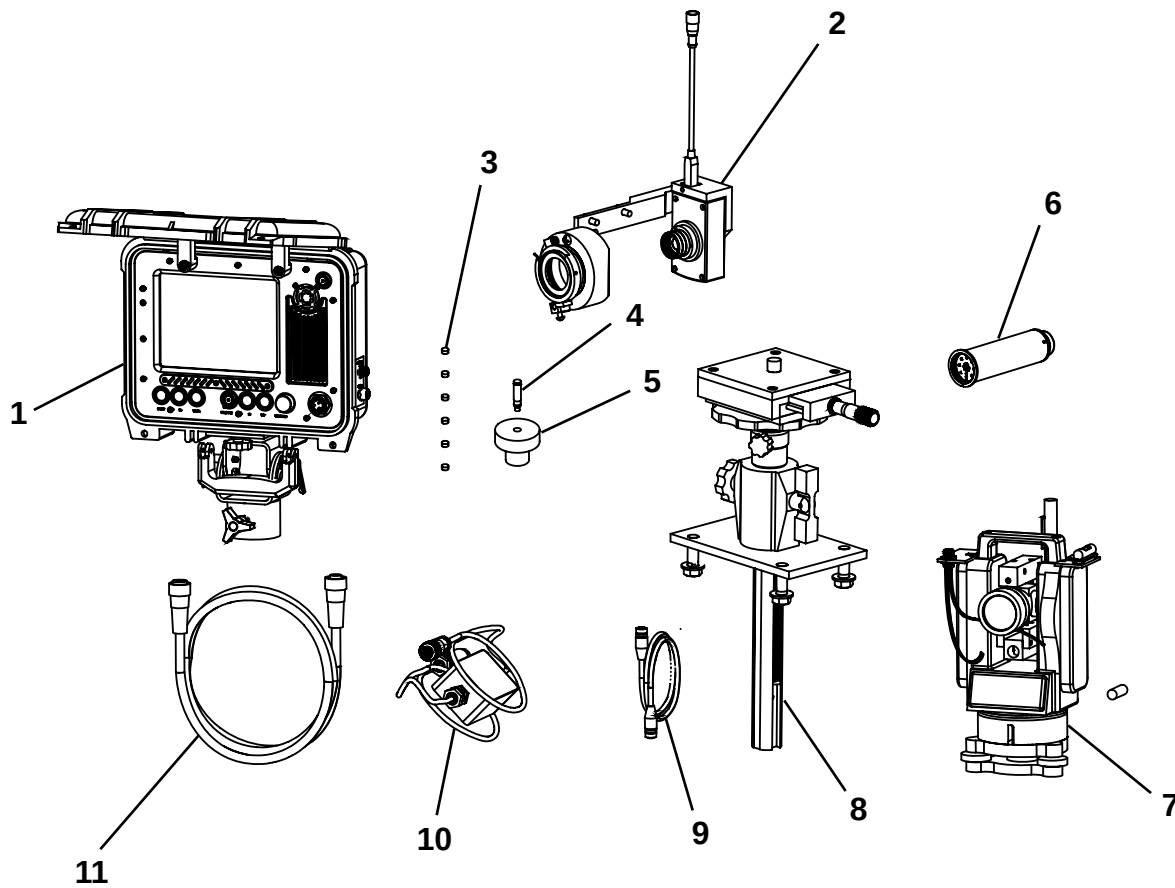


- 1. Container
- 2. Hydraulic Reservoir
- 3. Hydraulic Pressure Filter
- 4. Engine - 4 Cyl. 154 HP
- 5. Fuel Tank
- 6. Oil Cooler
- 7. Radiator
- 8. Muffler
- 9. Hydraulic Hose Reel
- 10. Emergency Stop
- 11. Steering Head

- 12. Reaming Head Adapter
- 13. Dual Tube Breakout Tool
- 14. Breakout Tool Power Pack
- 15. Wrench Set
- 16. Theodolite
- 17. Guidance System
- 18. Launch Shaft Breakout Tool
- 19. Storage Basket
- 20. Pilot Tube Support Bar
- 21. Pilot Tube Scraper
- 22. Warning Indicator Light

- 23. Diagnostic Gauge/Hour Meter
- 24. Stop Engine Indicator Light
- 25. Tachometer
- 26. Engine Coolant Temp. Gauge
- 27. Key Start Switch
- 28. Override Shutdown Switch
- 29. Bump Speed Enable Switch
- 30. Speed Select Switch
- 31. High-Low Speed Select Switch
- 32. Engine Oil Pressure Gauge
- 33. Remote Instrument Panel (Control Pendant)

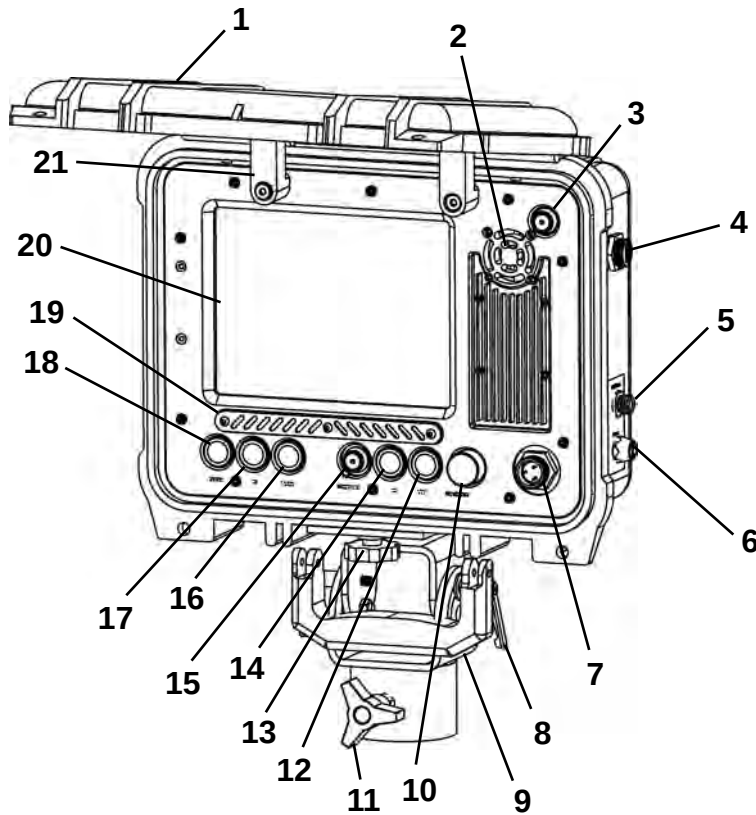
GUIDANCE SYSTEM (GEN 4)



- 1. Monitor Assembly With Docking Station
- 2. Camera Optics
- 3. Laser Bore Sight Batteries
- 4. Laser Bore Sight
- 5. Alignment Holder
- 6. Target
- 7. Theodolite

- 8. Theodolite Stand
- 9. LED/Focus Cable
- 10. Camera Cable
- 11. Guidance Power Cable

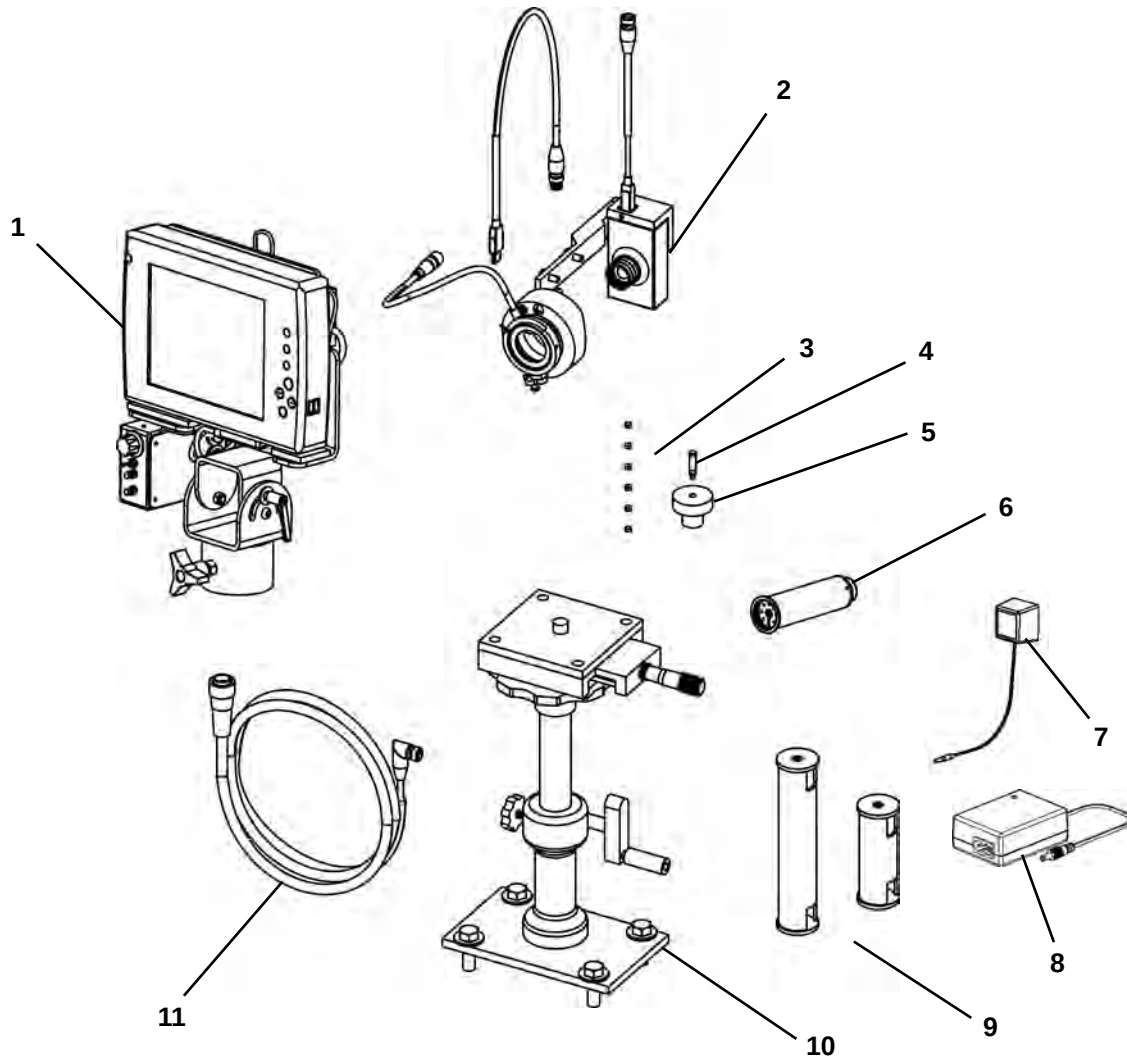
GUIDANCE SYSTEM MONITOR ASSEMBLY (GEN 4)



1. Case/Sun Visor	12. Focus Out Button
2. Cooling Fan	13. Case Mount Knob
3. Power Button	14. Focus In Button
4. USB Port*	15. Focus Speed
5. LED/Focus Cable Connection	16. Down Control Button
6. Camera Cable Connection	17. Up Control Button
7. Power IN Cable Connection	18. Select Item Control Button
8. Monitor Tilt Adjustment	19. Vent Cover/Filter
9. Monitor Mount	20. Monitor Display
10. LED Brightness Control	21. Lid Support
11. Monitor Mount Knob	

* Equipped on later models; used for troubleshooting only

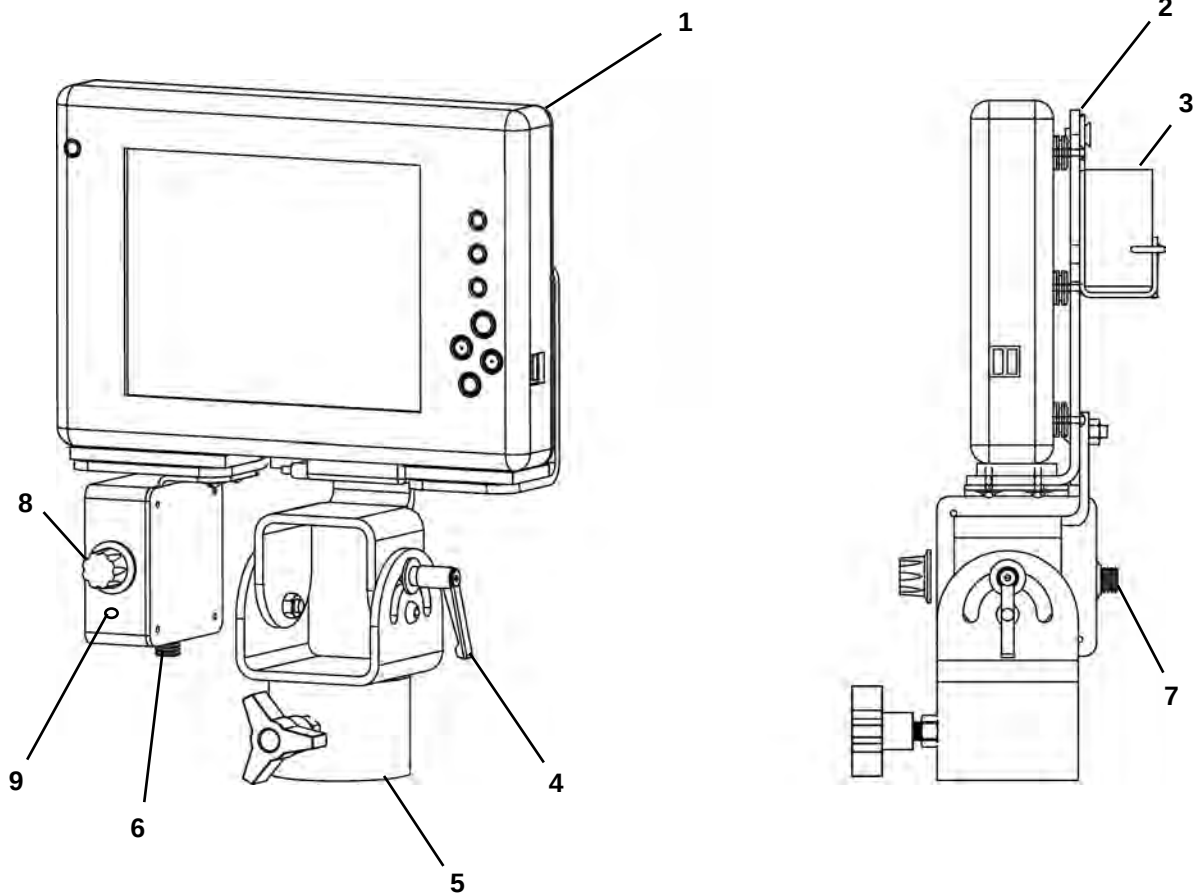
GUIDANCE SYSTEM (GEN 3)



1. Tablet PC With Docking Station
2. Camera Optics
3. Laser Bore Sight Batteries
4. Laser Bore Sight
5. Alignment Holder
6. Target

7. Overnight Charger
8. Smart Charger
9. Column Extensions: 6" & 12"
10. Theodolite Stand
11. Guidance Power Cable

TABLET PC ASSEMBLY WITHOUT REMOTE FOCUS (SN FA42035F-86 & BEFORE) (GEN 3)

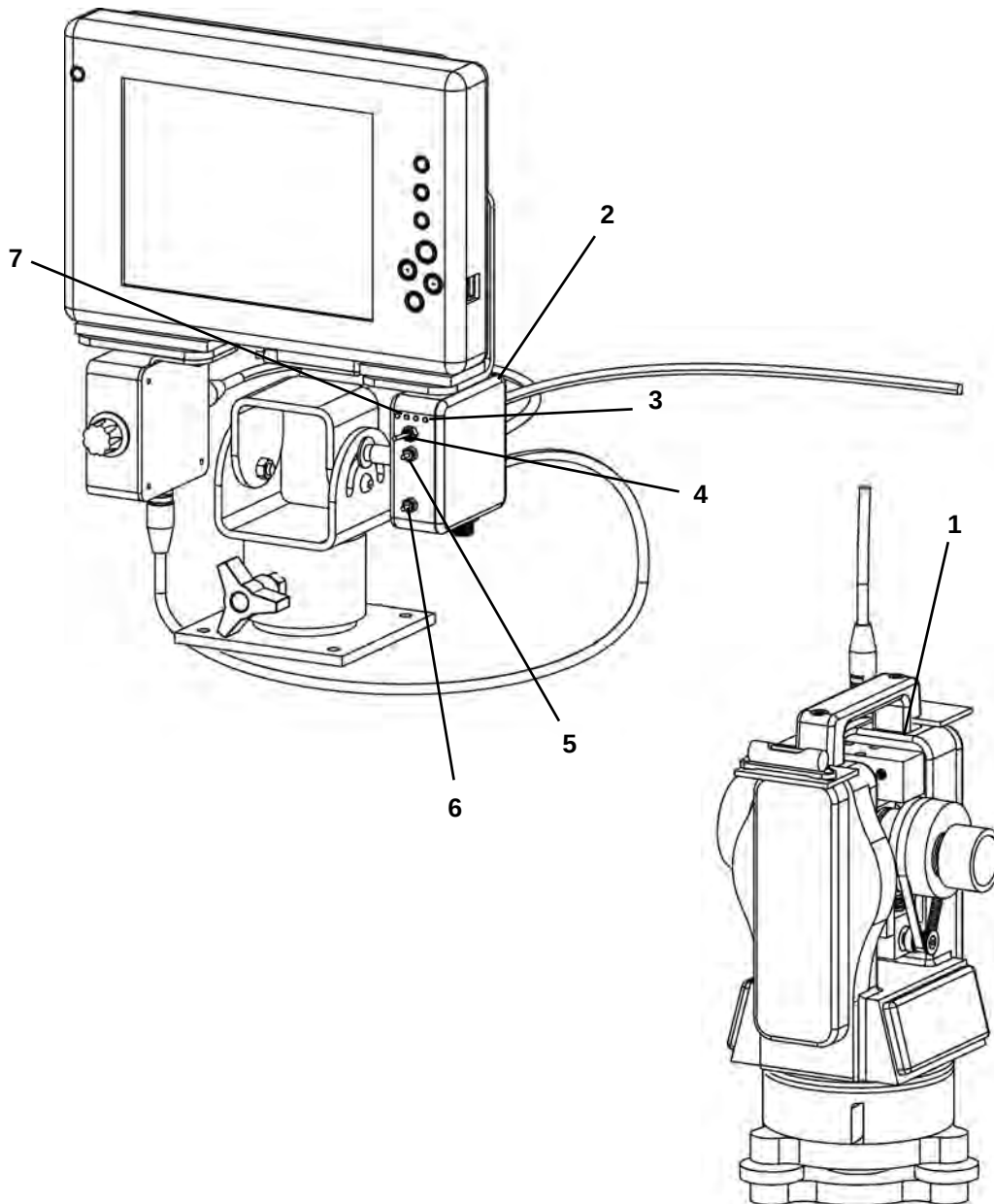


- 1. Tablet PC
- 2. Docking Station
- 3. Power Adapter
- 4. Monitor Tilt Adjustment
- 5. Monitor Top Mount

- 6. Power In Cable Connection
- 7. LED Cable Connection
- 8. LED Brightness Control
- 9. Camera Power Indicator

* Some units have been updated with the Remote Focus Kit option. See Tablet PC Assembly With Remote Focus Kit (SN FA42035F-86 & Before).

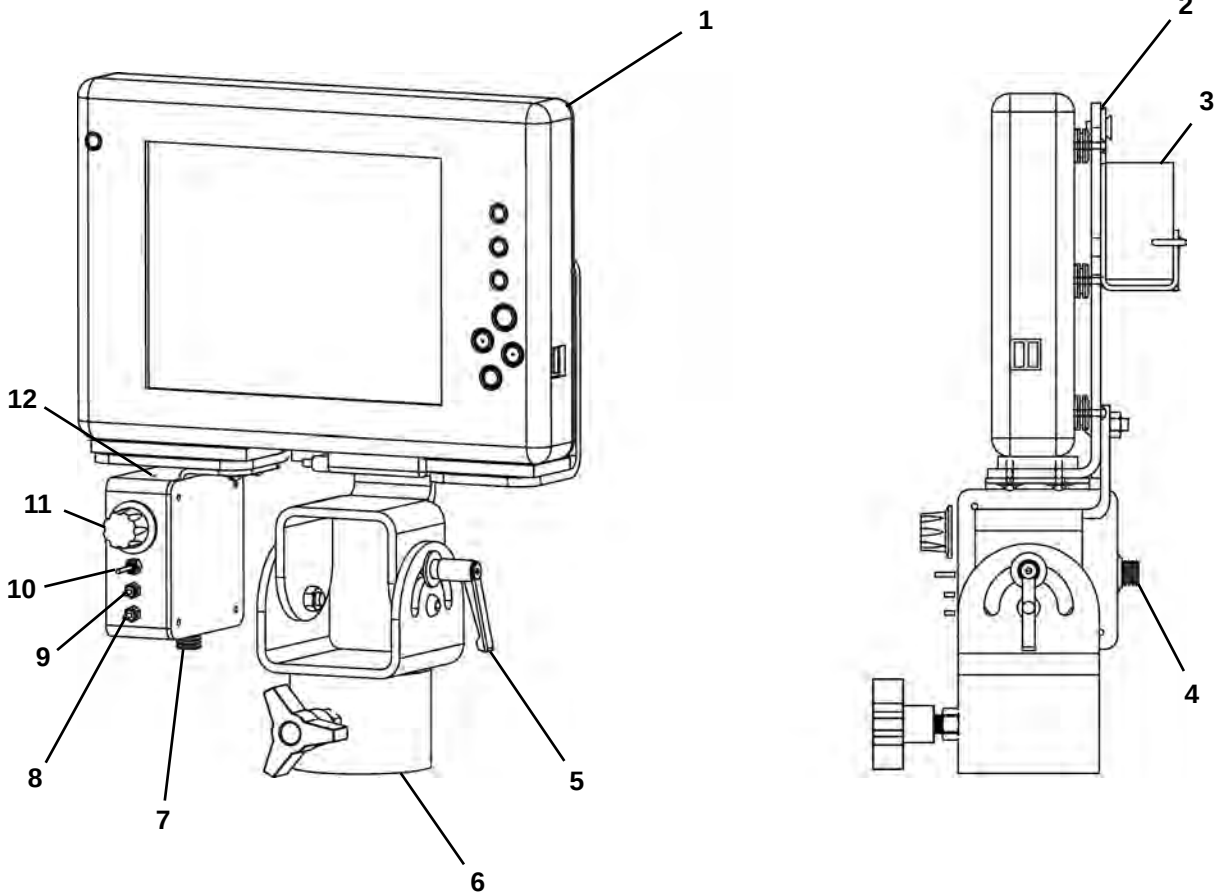
REMOTE FOCUS KIT (SN FA42035F-86 & BEFORE) (GEN 3)



- 1. Drive Motor
- 2. Remote Focus Control Box
- 3. LED Limit Light
- 4. SLOW/FAST Focus Speed Switch

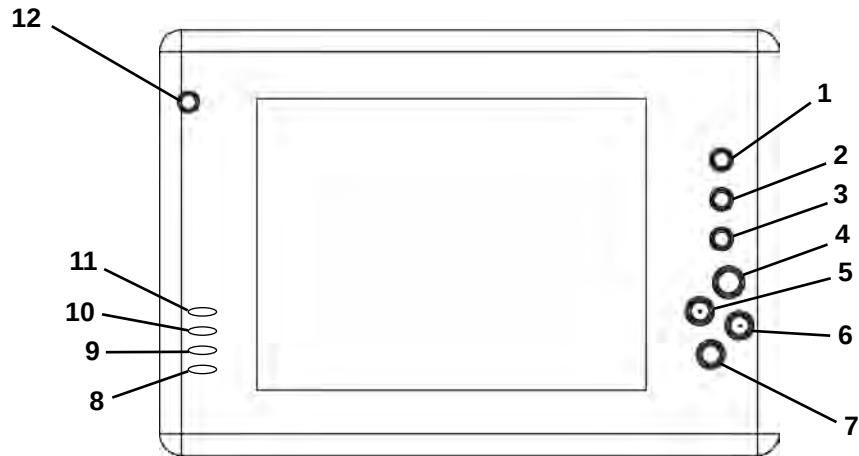
- 5. IN
- 6. OUT
- 7. LED Run

TABLET PC ASSEMBLY WITH REMOTE FOCUS (SN FA42035F-87 & AFTER) (GEN 3)



1. Tablet PC	7. Power In Cable Connection
2. Docking Station	8. OU Focus
3. Power Adapter	9. IN Focus
4. LED Cable Connection	10. SLOW/FAST Focus Speed Switch
5. Monitor Tilt Adjustment	11. LED Brightness Control
6. Monitor Top Mount	12. Camera Power Indicator

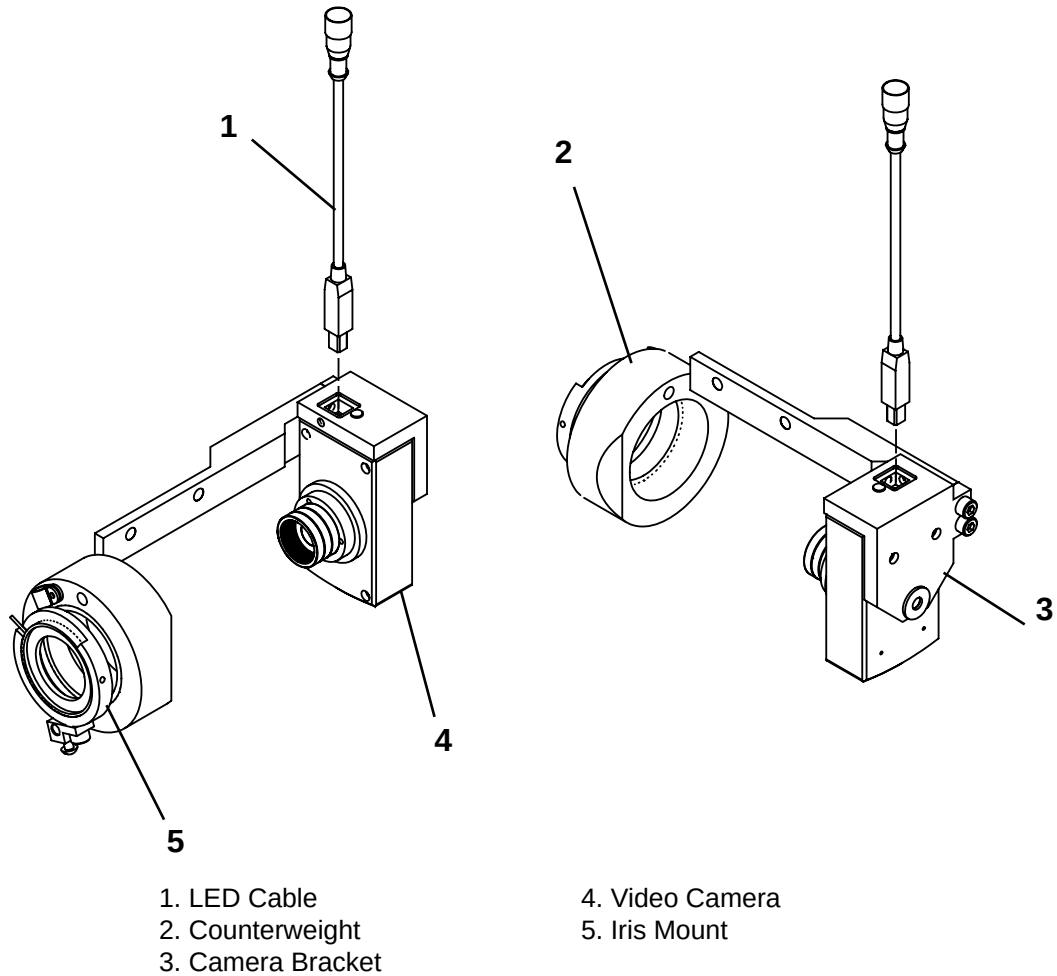
TABLET PC CONTROLS (GEN 3)



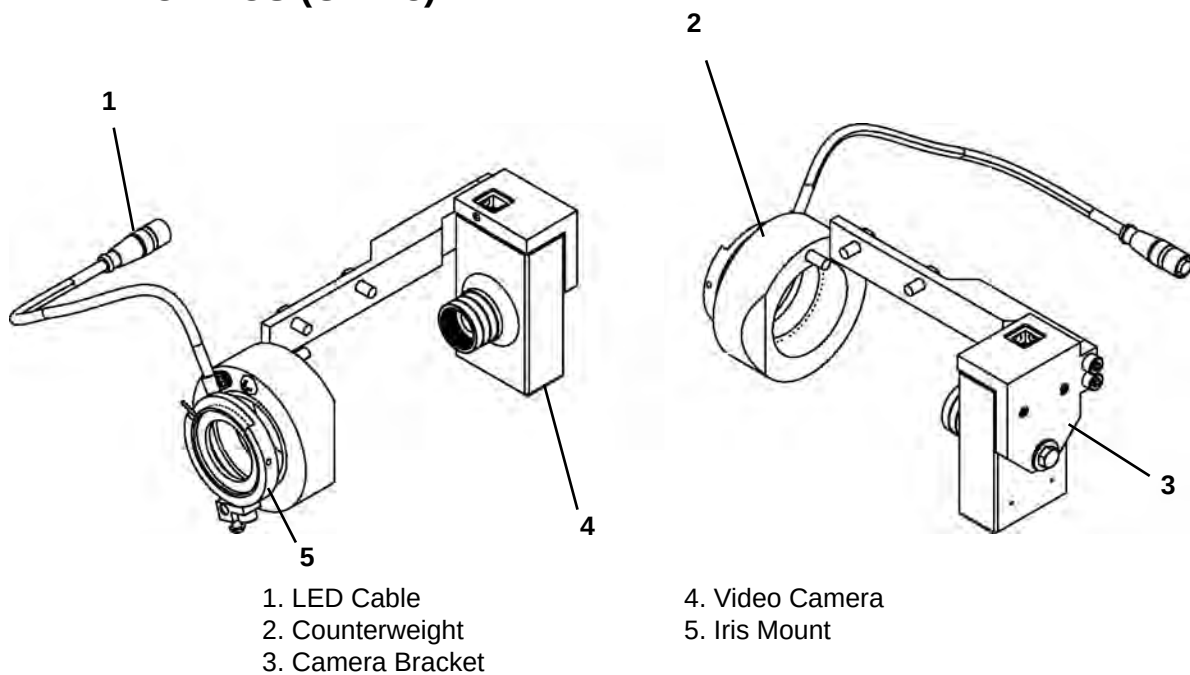
- 1. Rotate Screen
- 2. Windows Task Manager
- 3. Select Up
- 4. Select Down (Enter)
- 5. Up
- 6. Down

- 7. Function Key
- 8. Power Light
- 9. Charge Light
- 10. Hard Drive Light
- 11. Wireless Light
- 12. Power

CAMERA OPTICS (GEN 4)



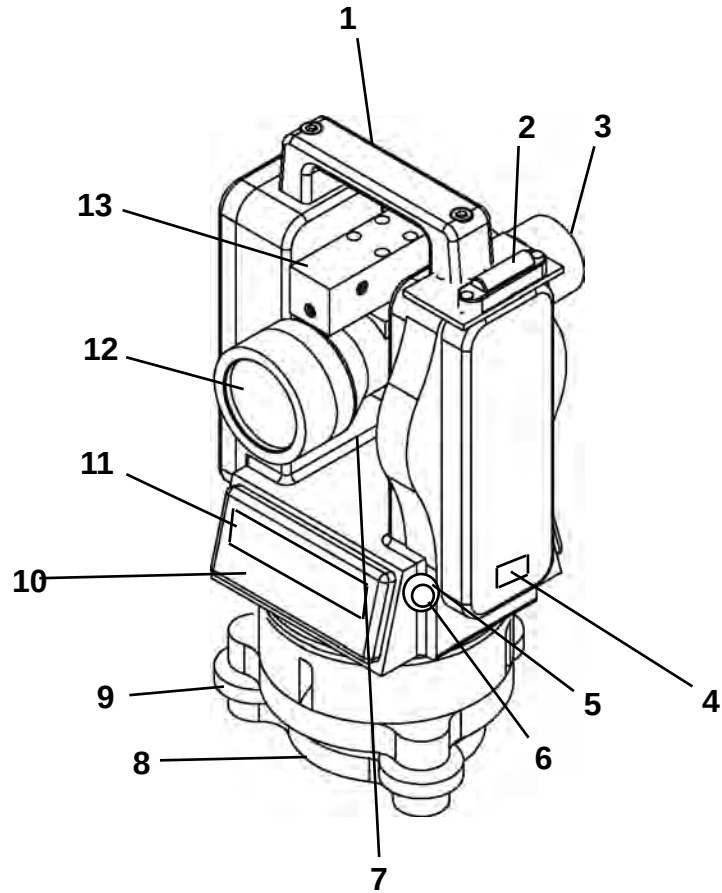
CAMERA OPTICS (GEN 3)



THEODOLITE

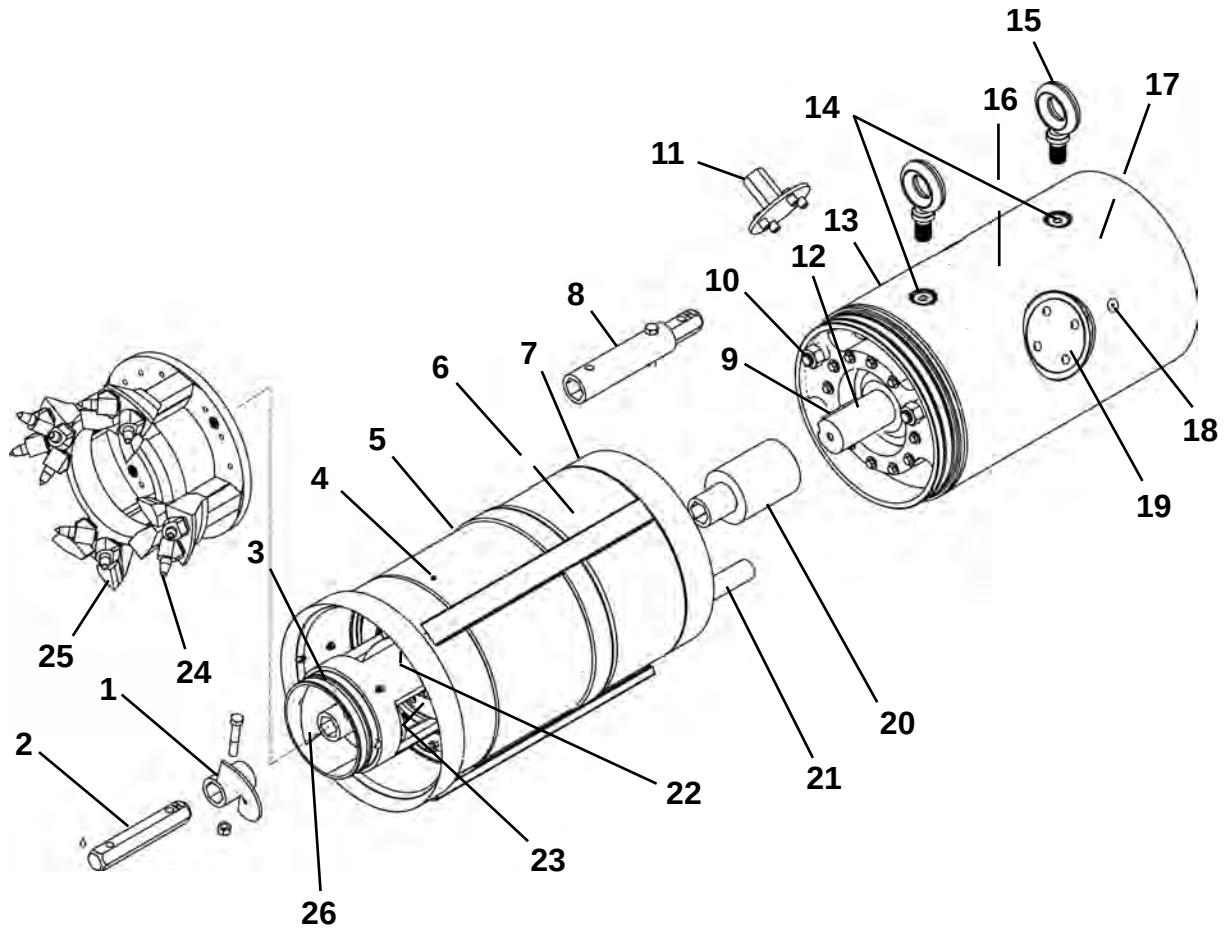
NOTICE

For more information, refer to your theodolite manual.



1. Carrying Handle	8. Base Plate
2. Level	9. Leveling Screw
3. Telescope Eyepiece	10. Keyboard
4. Power Switch	11. Display
5. Optical Plummet Focusing Ring	12. Objective
6. Optical Plummet	13. Camera Mount
7. Remote Focus Drive Motor (If equipped)	

POWERED CUTTER HEAD 20 - 22.5 - 28.5 - 30.5

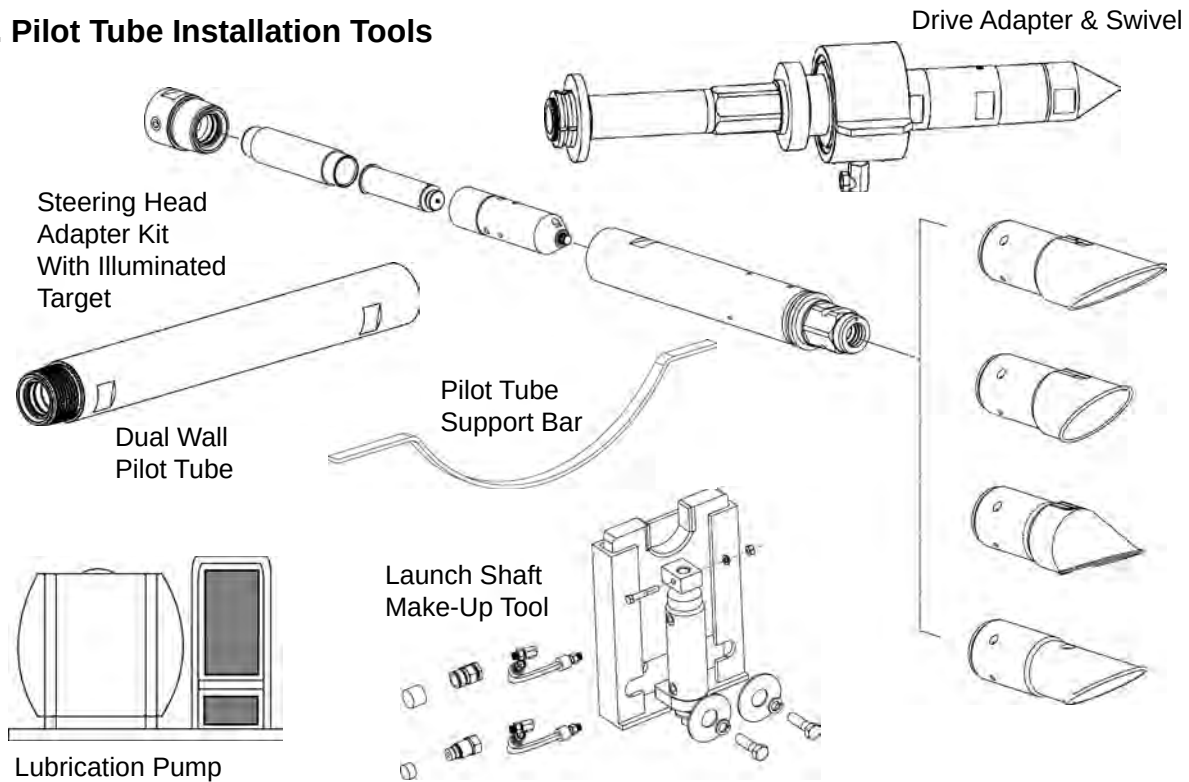


1. Lead Auger
2. Hex Connector
3. PCH Auger Casing
4. External Grease Port
5. Front Section
6. Hydraulic Motor
7. Bell End
8. GBM Gear Box Connection
9. Drive Shaft Keyway
10. Alignment Pins
11. Port Hole Wrench
12. Auger Drive Shaft
13. Rear Section

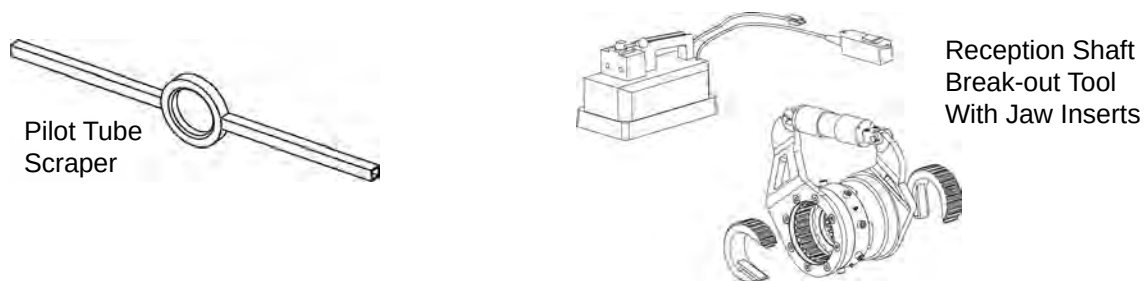
14. Lifting Lugs (if equipped)
15. Lifting Eye (if equipped)
16. Auger Drive Gear Box
17. Hydraulic Drive Motor
18. Lubrication Port (3)
19. Port Hole
20. Auger Drive Shaft Coupling
21. Hydraulics
22. Jetting Ports (3)
23. Mixing Chamber
24. Cutter Bullet Bit
25. Cutter Dirt Bit
26. PCH Auger Section

GBM TOOLING - THREE STEP METHOD - FOR 11" THRU 16" OD PIPE

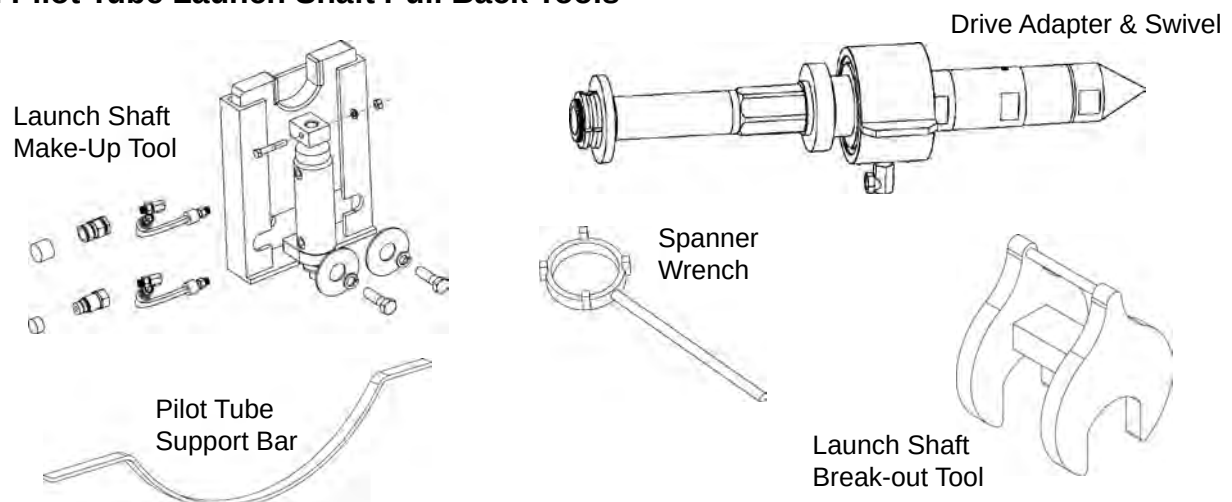
1. Pilot Tube Installation Tools



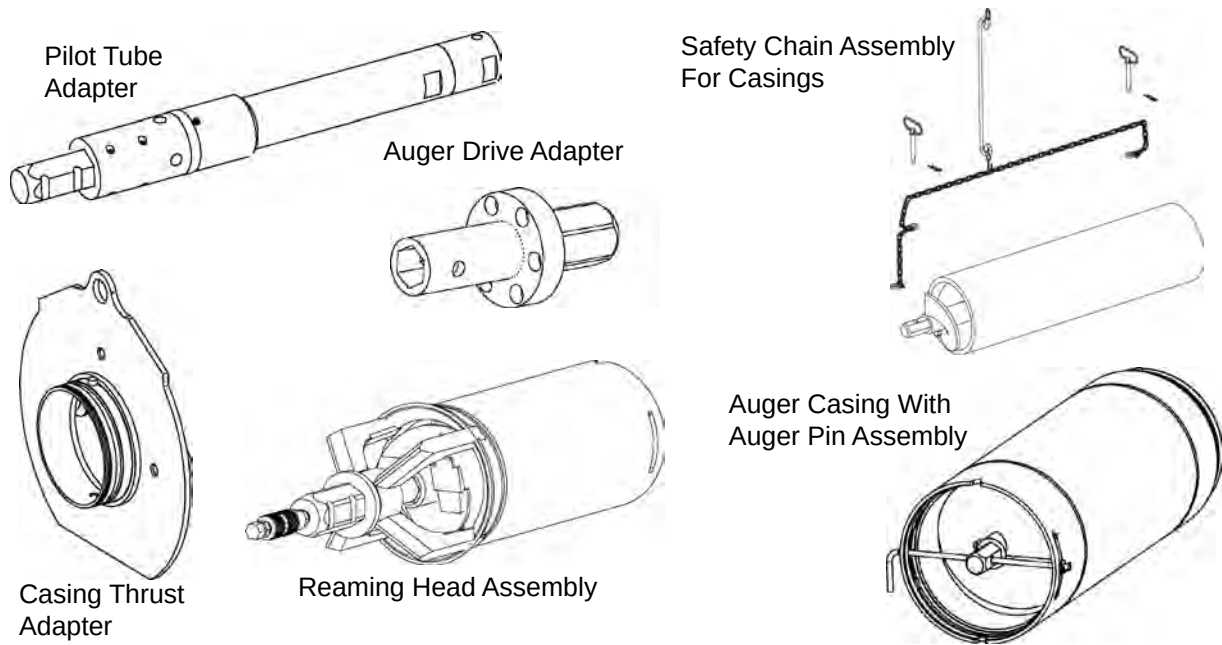
2. Pilot Tube Reception Shaft Removal Tools



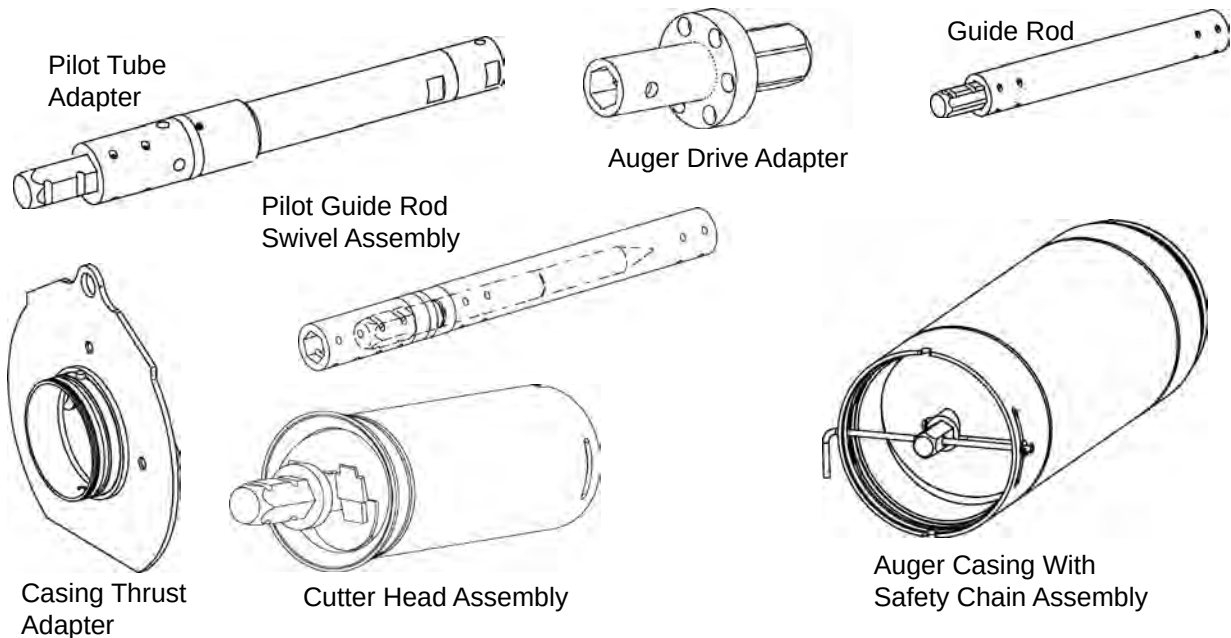
3. Pilot Tube Launch Shaft Pull Back Tools



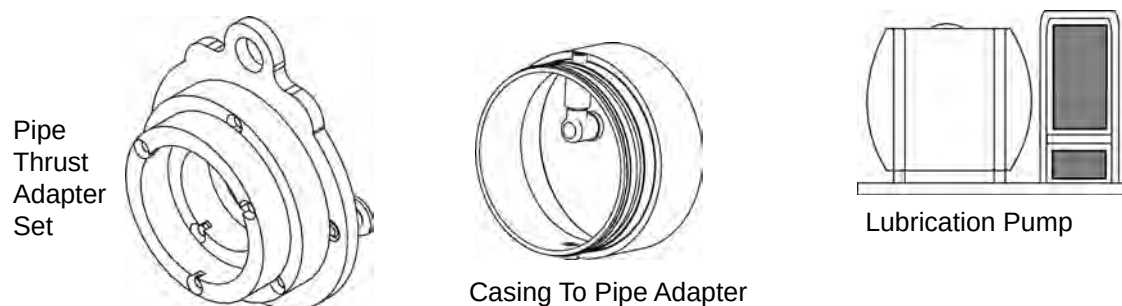
4a. Upsizing Tool: Reaming Head Thrust Casing Installation Tools



4b. Upsizing Tool: Cutter Head Thrust Casing Installation Tools

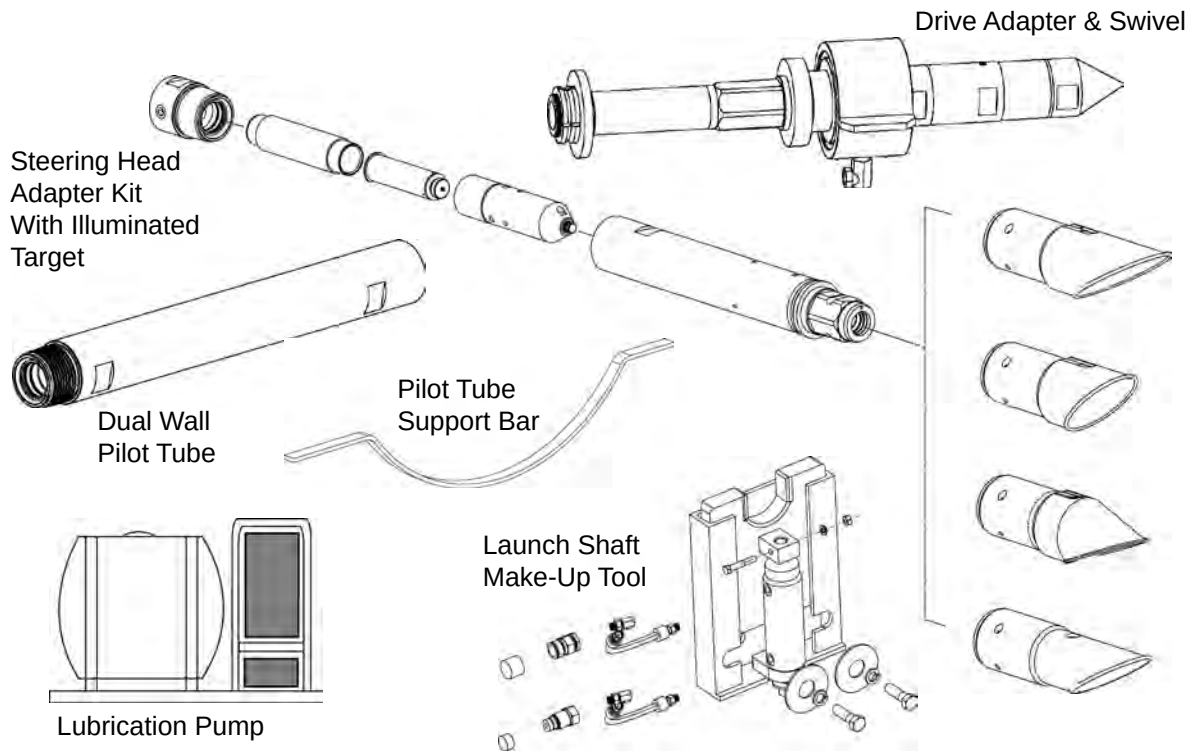


5. Pipe Installation Tools

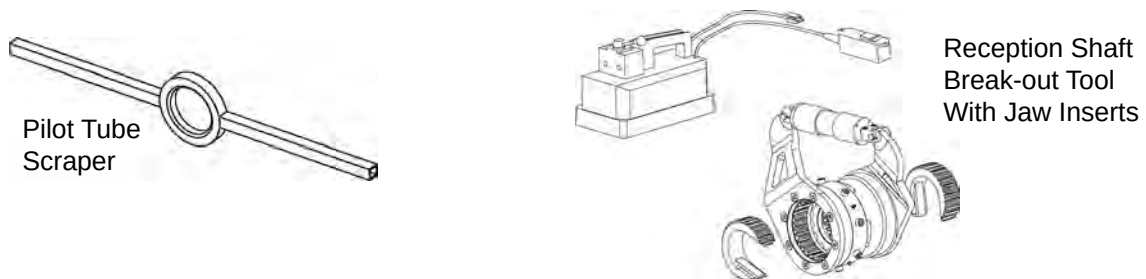


GBM TOOLING - THREE STEP METHOD WITH POWERED CUTTER HEAD for 20" - 28.5" OD Pipe (308A); for 20" - 31.5" OD Pipe (339A)

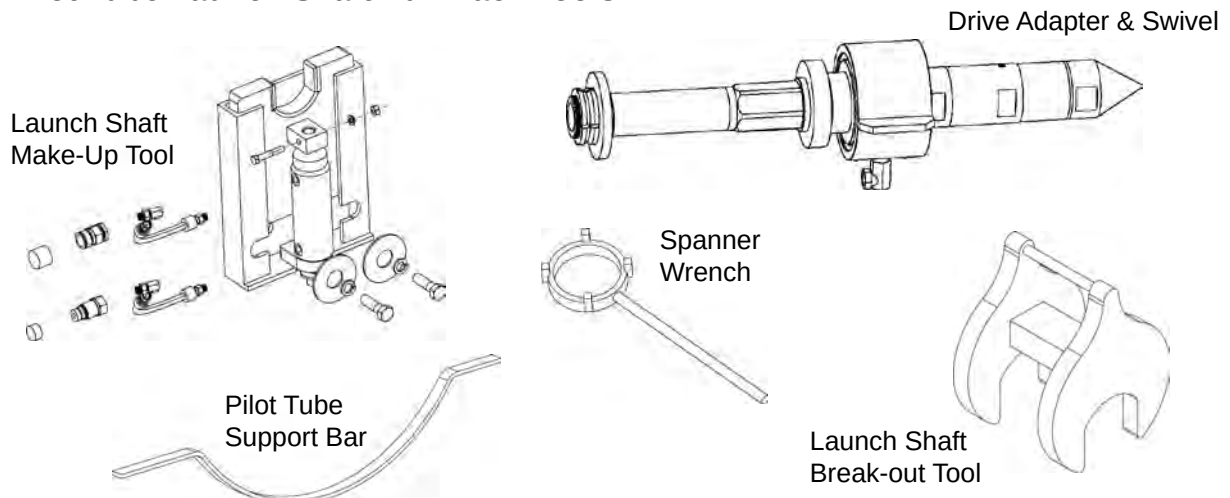
1. Pilot Tube Installation Tools



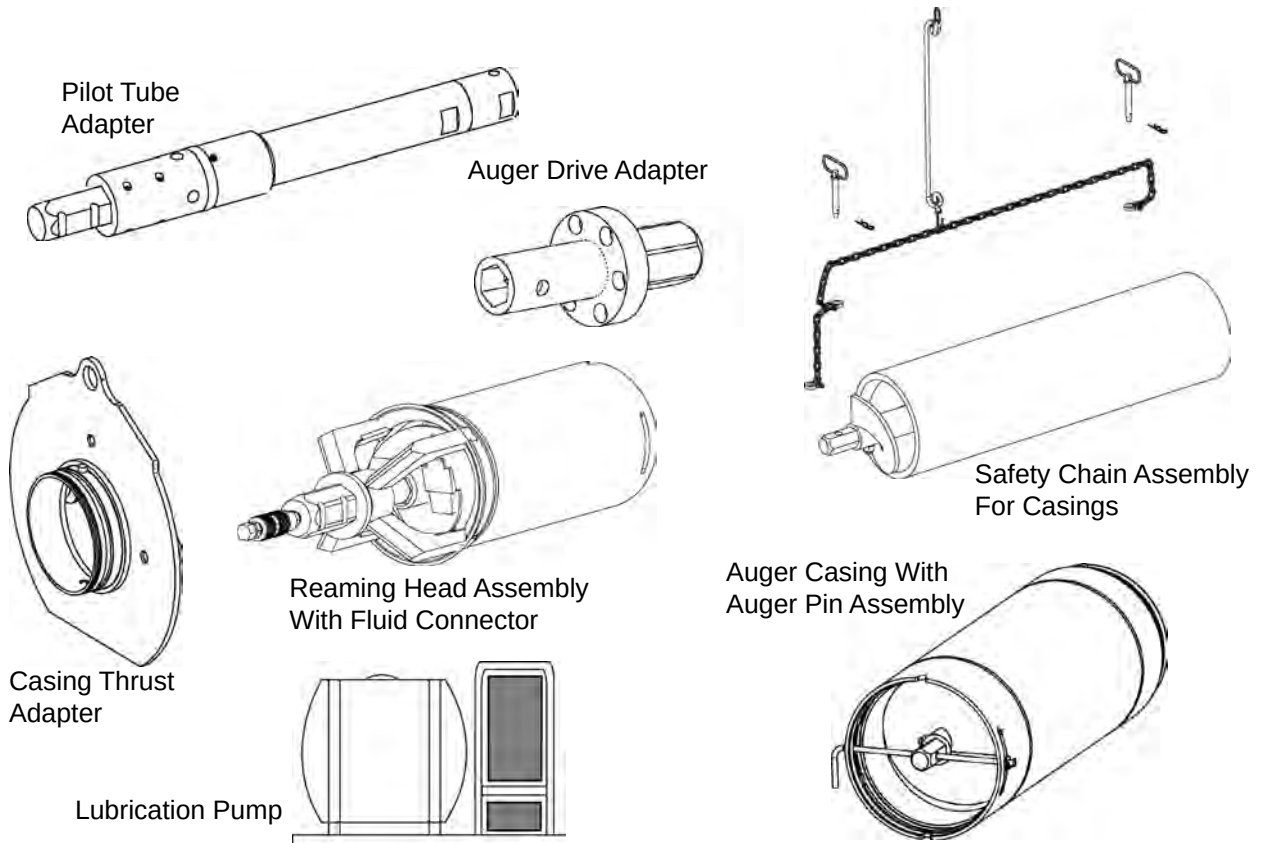
2. Pilot Tube Reception Shaft Removal Tools



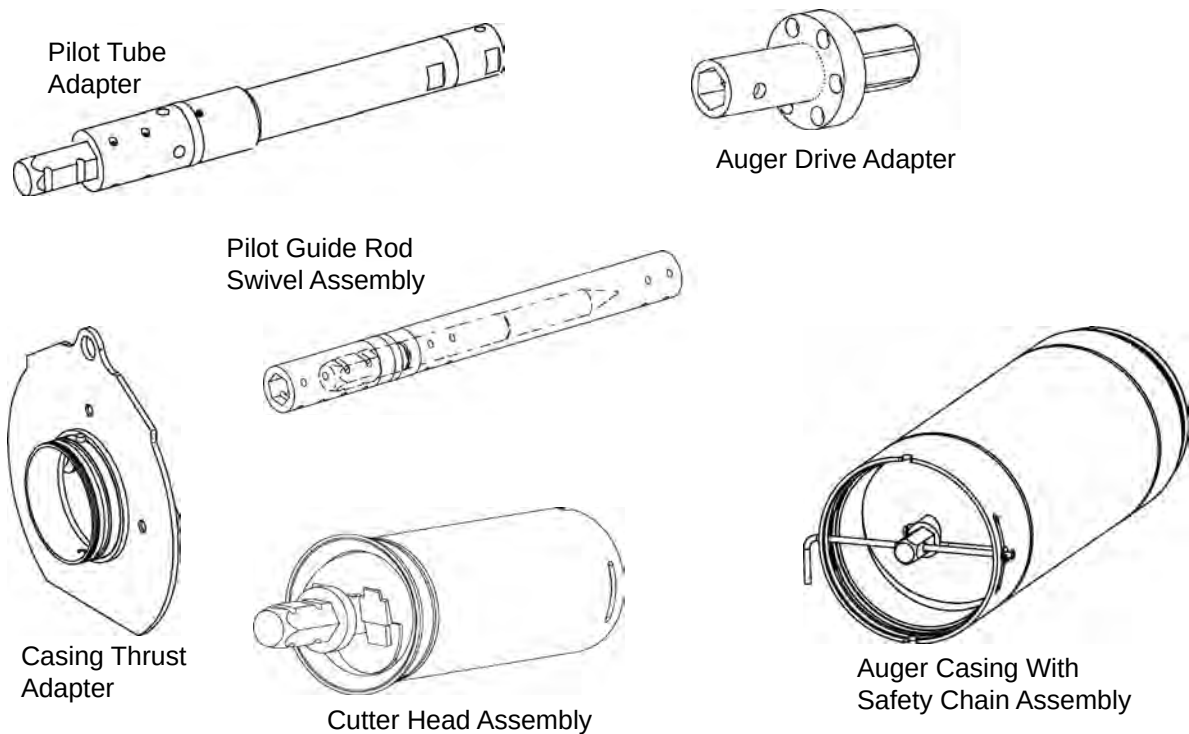
3. Pilot Tube Launch Shaft Pull Back Tools



4a. Upsizing Tool: Reaming Head Thrust Casing Installation Tools

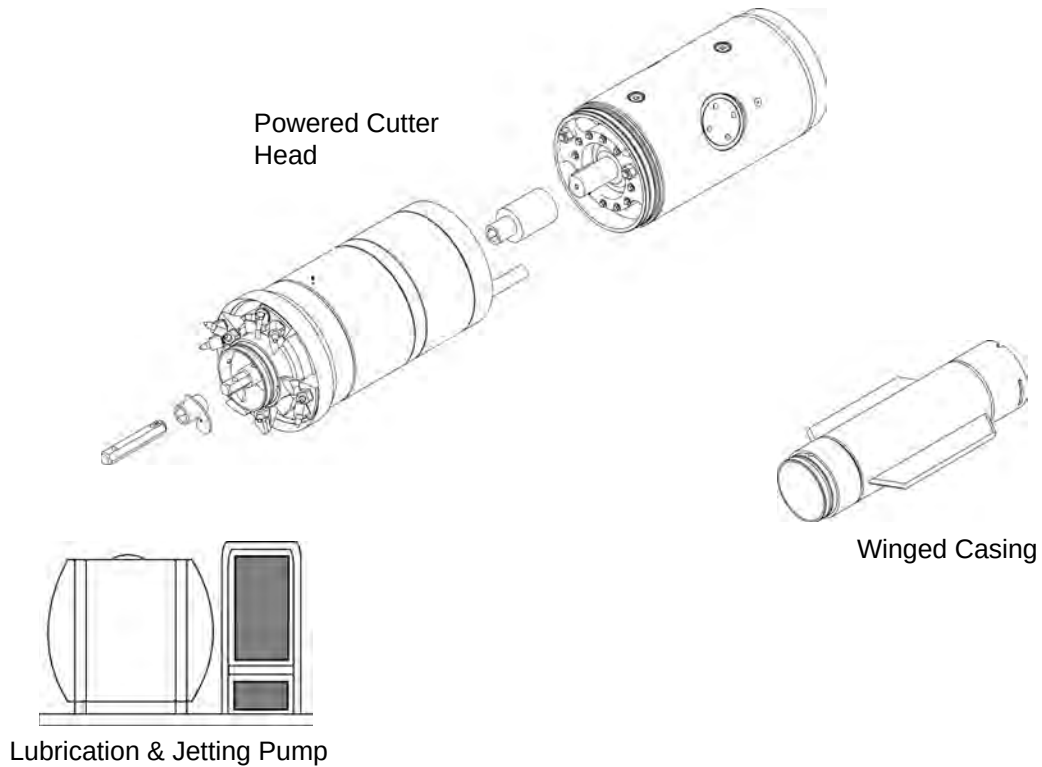


4b. Upsizing Tool: Cutter Head Thrust Casing Installation Tools

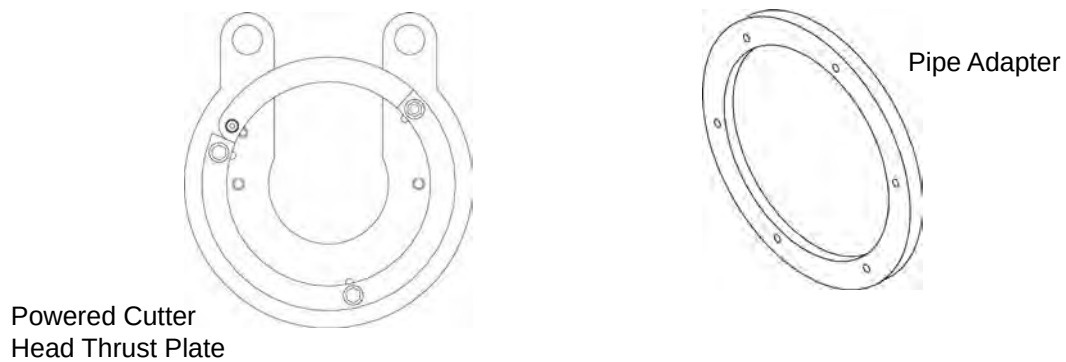


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5. Upsizing Tool: Powered Cutter Head Installation Tools



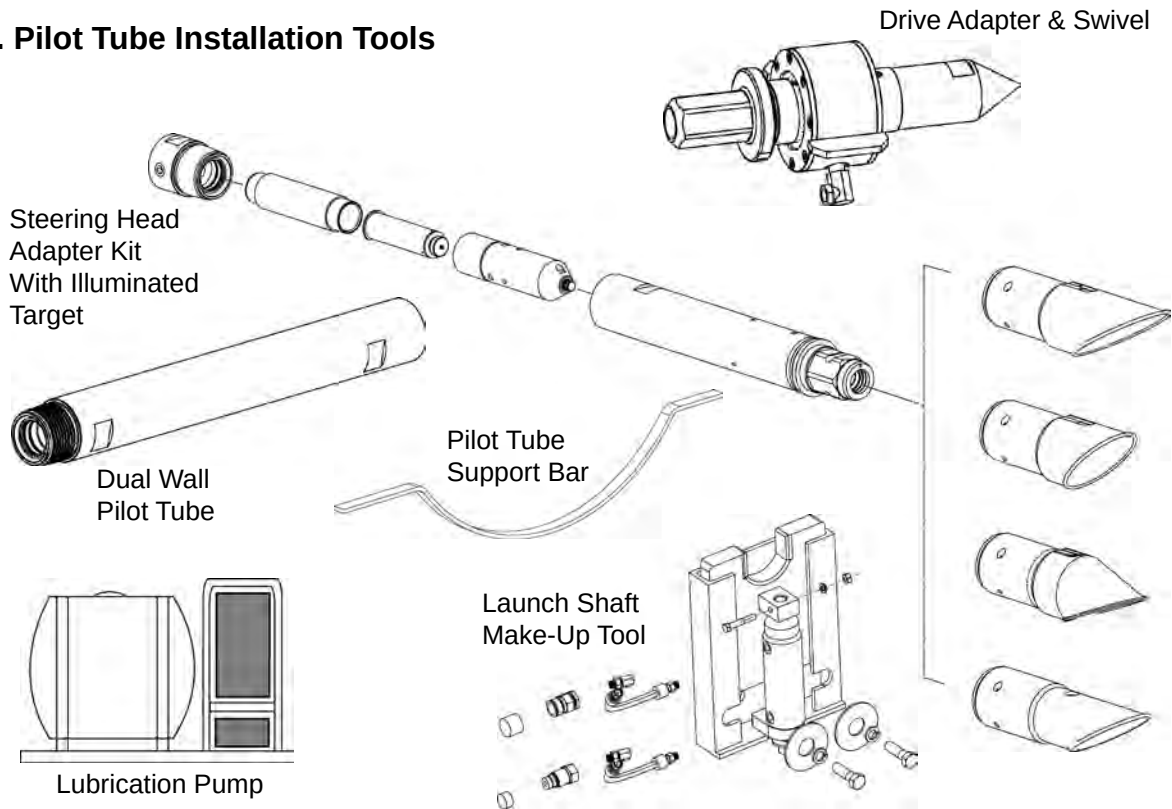
6. Pipe Installation Tools



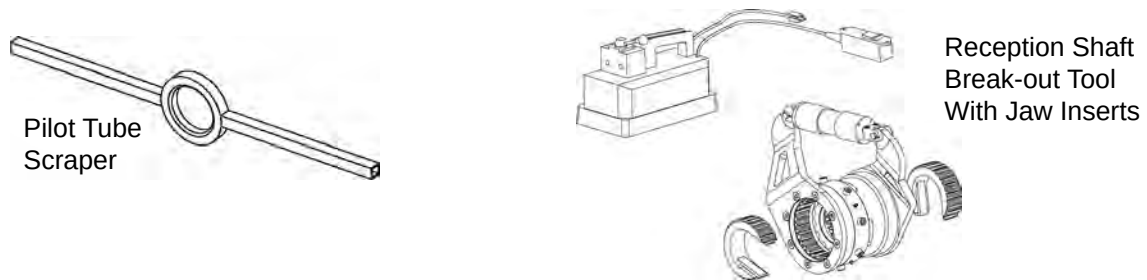
NOTES

GBM TOOLING - THREE STEP METHOD WITH POWERED REAMING HEAD

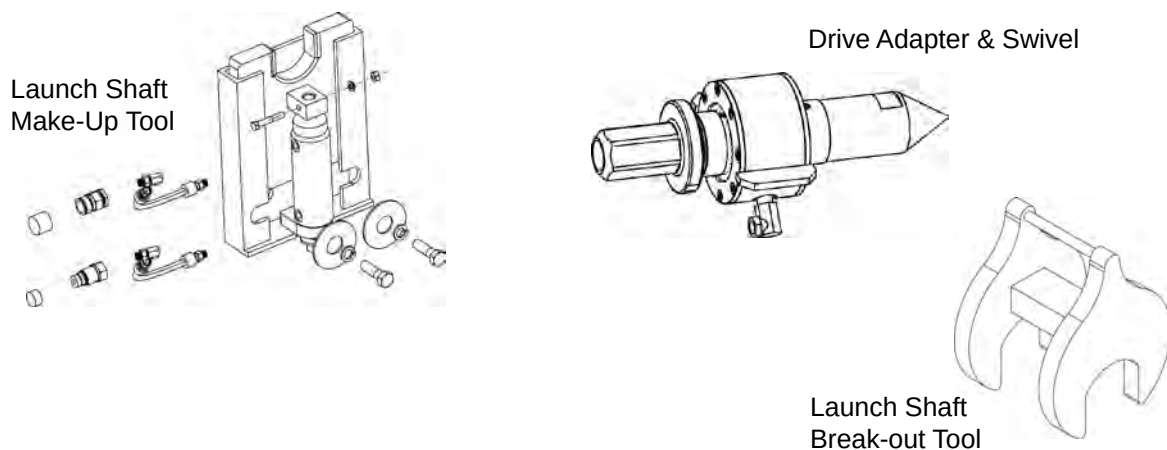
1. Pilot Tube Installation Tools



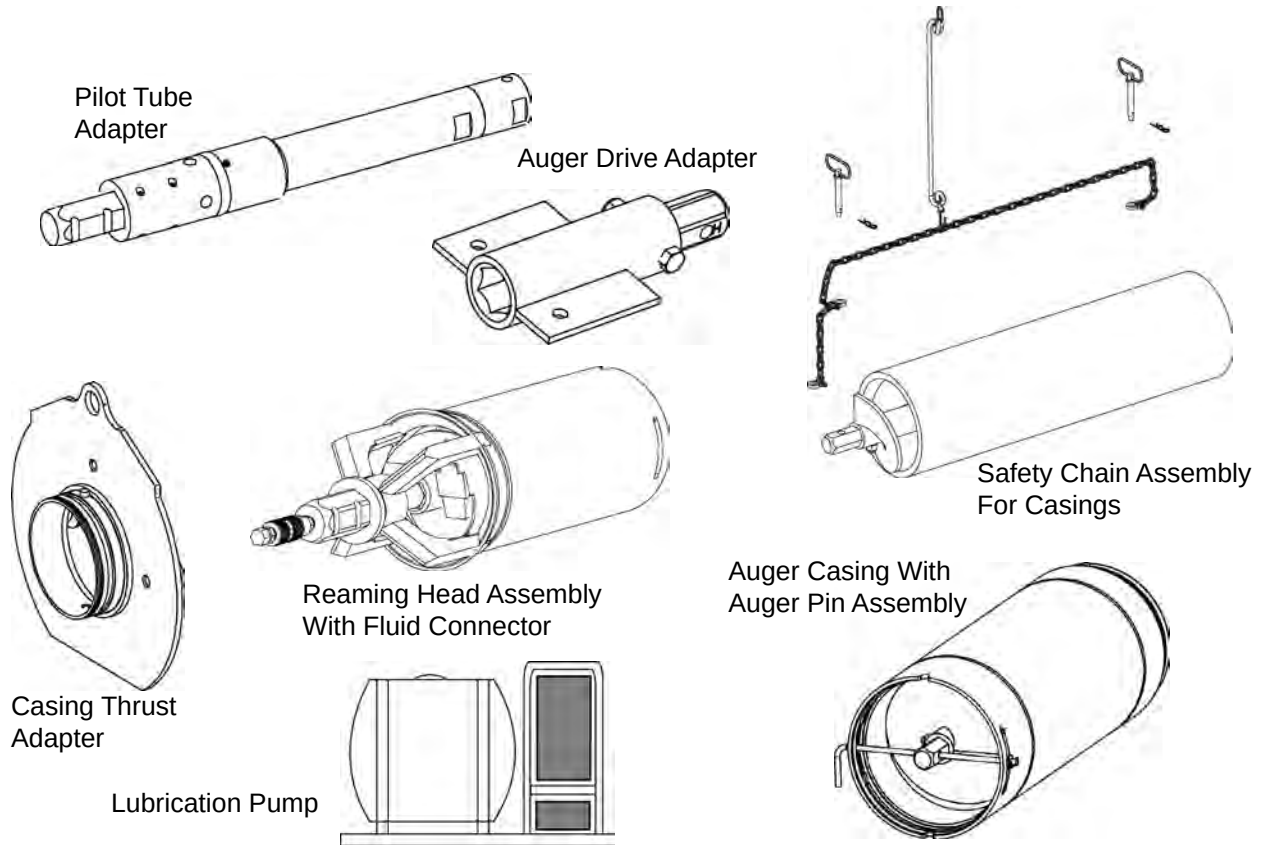
2. Pilot Tube Reception Shaft Removal Tools



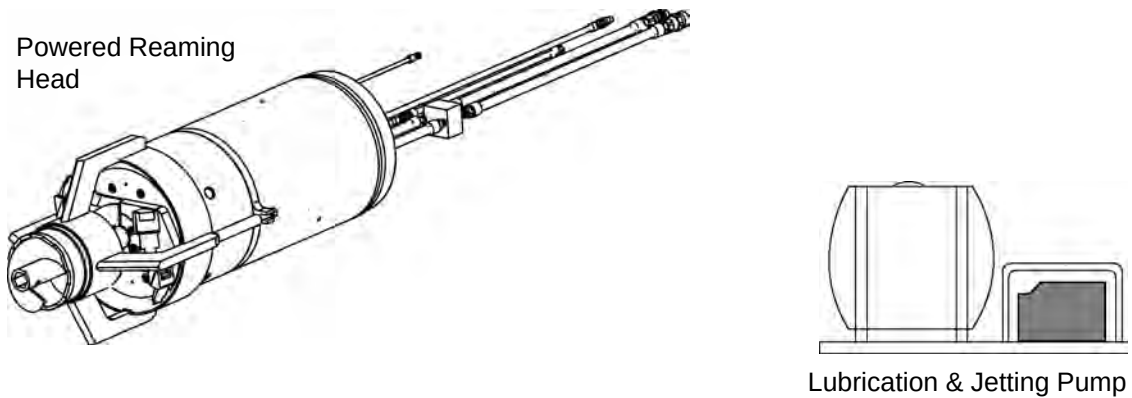
3. Pilot Tube Launch Shaft Pull Back Tools



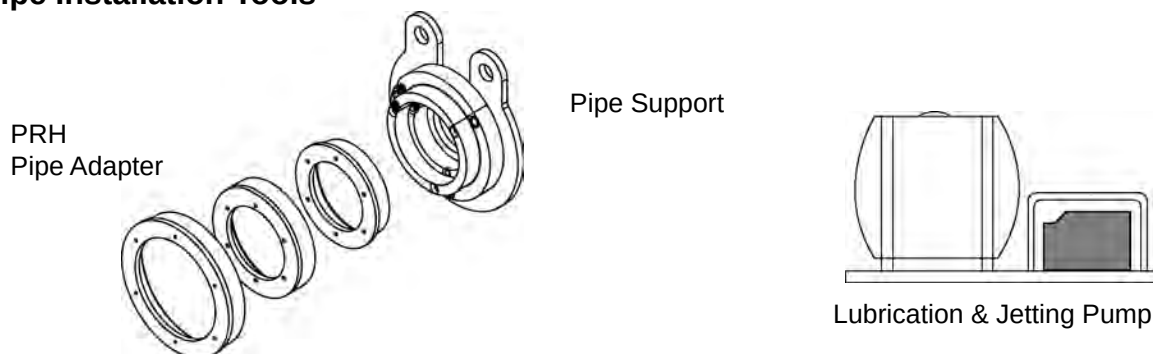
4. Upsizing Tool: Reaming Head Thrust Casing Installation Tools



5. Upsizing Tool: Powered Reaming Head Installation Tools

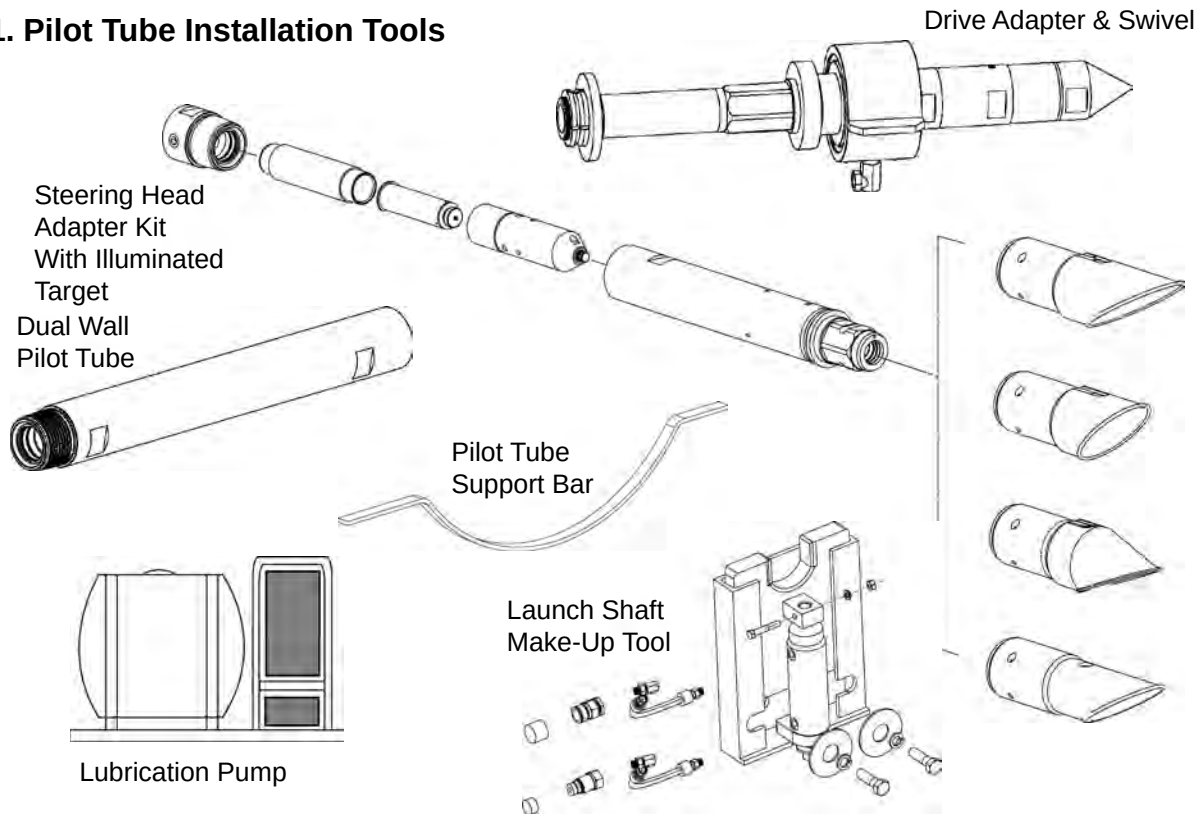


6. Pipe Installation Tools

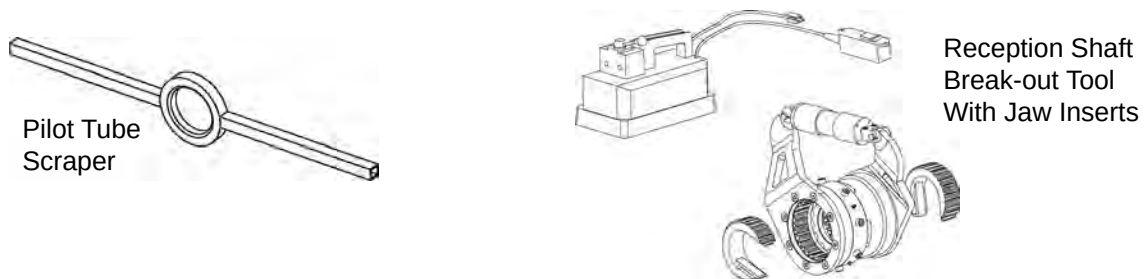


GBM TOOLING - AUGER BORING METHOD

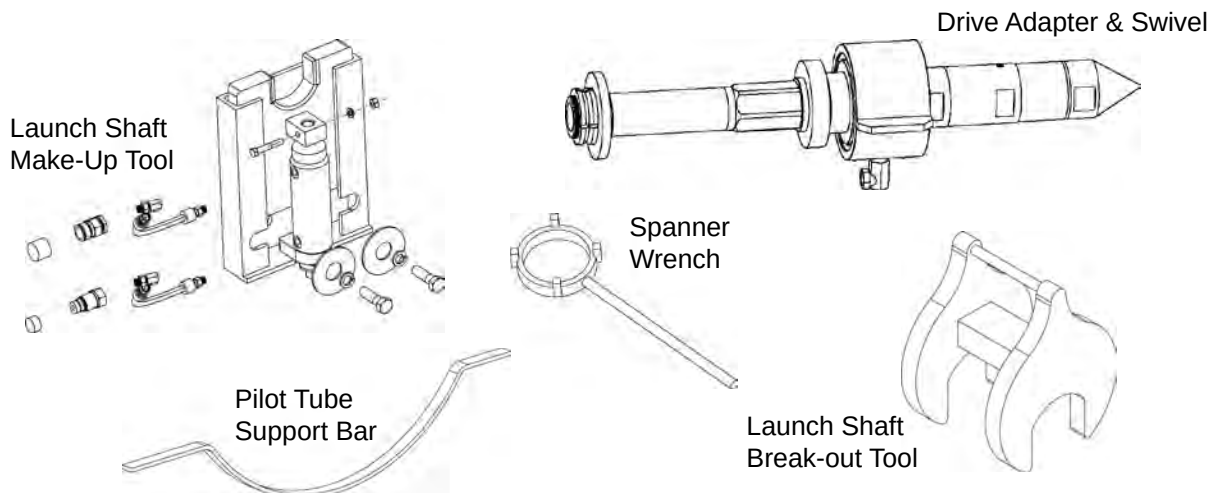
1. Pilot Tube Installation Tools



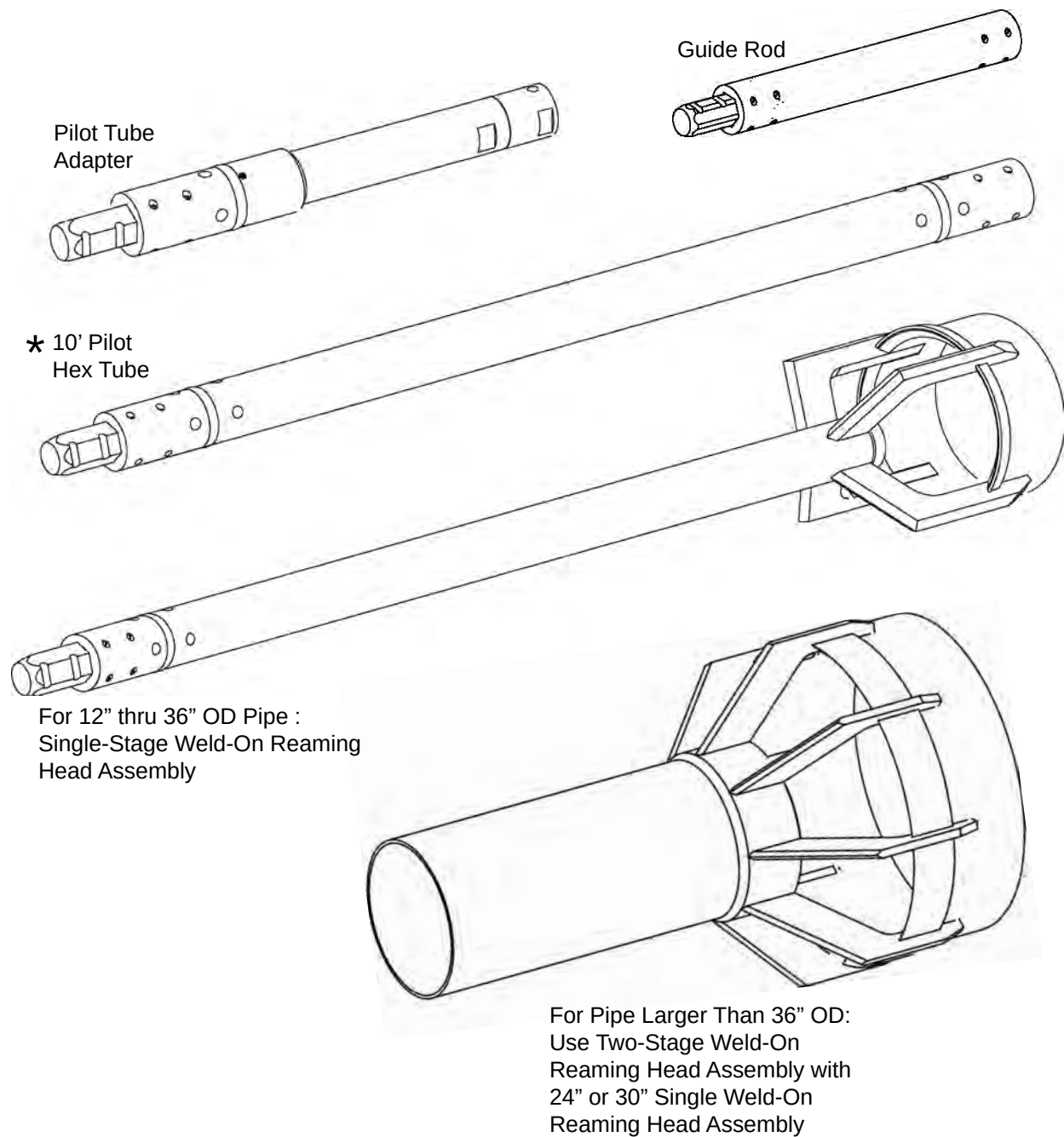
2. Pilot Tube Reception Shaft Removal Tools



3. Pilot Tube Launch Shaft Pull Back Tools



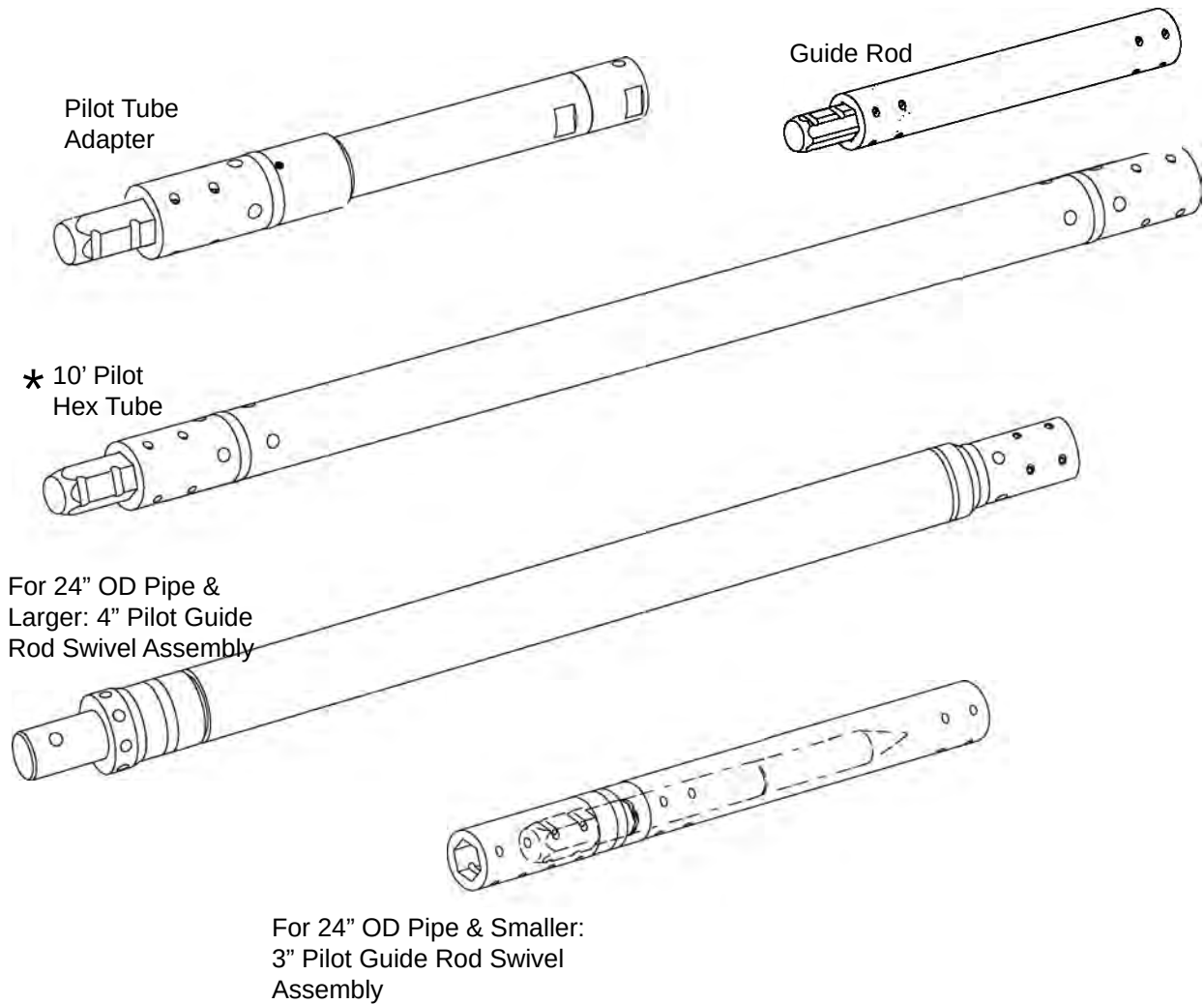
4a. Upsizing Tool: Reaming Head Installation Tools



★ On larger diameter auger boring drives, two 10' pilot hex tubes may be required.

(continued on next page)

4b. Upsizing Tool: Open Face Cutter Head Installation Tools



★ On larger diameter auger boring drives, two 10' pilot hex tubes may be required.



Decals

Latching Frame

308A & 339A Without PCH Controls	2
Powered Cutter Head Valve Package Option	4
308A With PCH Controls	6
339A With PCH Controls	8

Single Stage Frame, 240A	10

Power Pack

P100Q	12
Remote Instrument Panel (Control Pendant) (Earlier Models)	14
Remote Instrument Panel (Control Pendant) (Later Models)	15
P100E	16
Control Panel	18
P150Q	20
Remote Instrument Panel (Control Pendant)	22

Guidance System

Gen 4	
SN FA47260F	24
Theodolite	26
Gen 3	
SN FA42035F-86 & Before	28
Remote Focus Kit (SN FA42035F-86 & Before)	30
SN FA42035F-87 & After	32

Target

GBM Replaceable Battery Target	34

Pilot Tube Racks	35

Wire Basket (One Meter Casing)	36

Jetting & Lubrication Pump Shaft Control	37

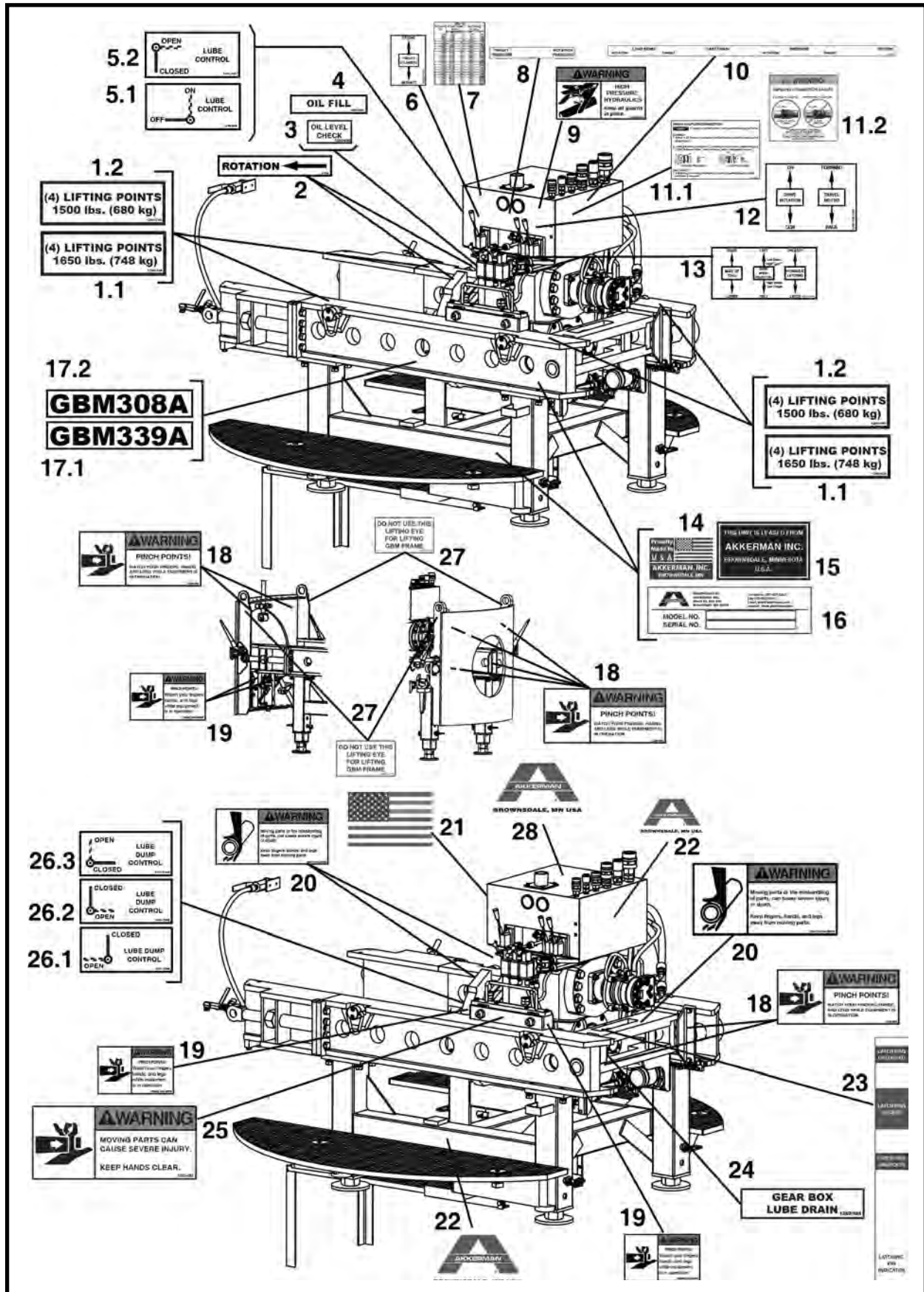
Powered Cutter Head PCH 20 - PCH 22.5 - PCH 28.5	38

Powered Reaming Head

PRH (SN FA45200F-05 & Before)	39
PRH (SN FA45200F-06 & After)	40

LATCHING FRAME DECALS

308A & 339A WITHOUT PCH CONTROLS



LATCHING FRAME DECALS
308A & 339A WITHOUT PCH CONTROLS

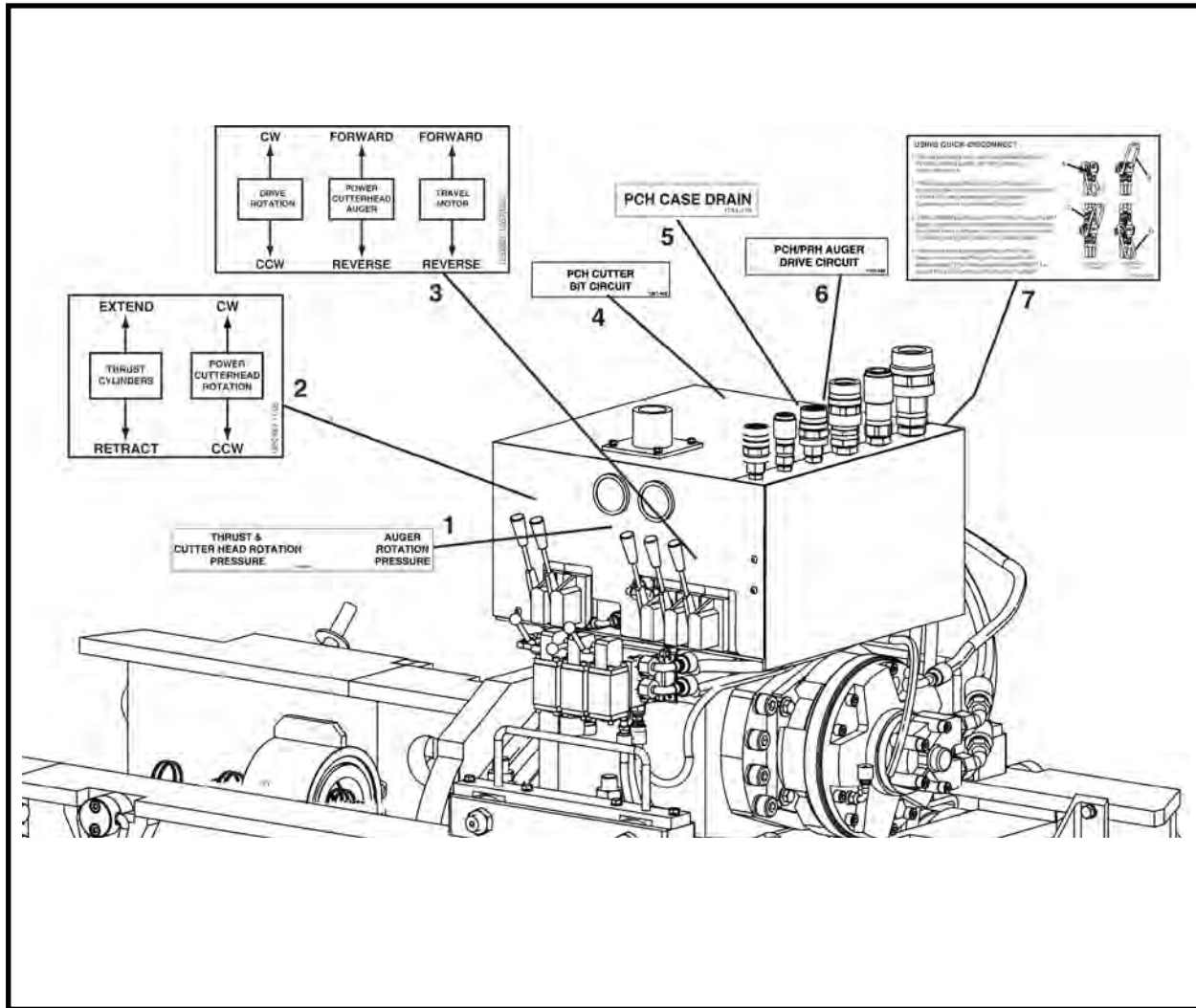
ITEM	QTY	PART NO.	DESCRIPTION
1.1	4	1250-928	DECAL, Lifting Points, 1650 lbs. (339A only)
1.2	4	1250-760	DECAL, Lifting Points, 1500 lbs. (308A only)
2	2	3-700L	DECAL, Rotation, Left
3	1	1250-930	DECAL, Oil Level Check
4	1	1250-492	DECAL, Oil Fill
5.1	1	1250-929	DECAL, Lube Control
5.2	1	1251-158	DECAL, Lube Control
6	1	1250-757	DECAL, GBM Thrust Cylinder Control
7	1	1250-758	DECAL, GBM Pressure Chart
8	1	1250-761	DECAL, GBM Pressure Gauges
9	1	1250-003	DECAL, Warning High Pressure Hydraulics
10	1	1250-759	DECAL, GBM Hydraulic Connections
11.1*	1	1250-574	DECAL, Quick Coupler Connection
11.2**	1	1251-546	DECAL, Quick Coupler Connection
12	1	1250-756	DECAL, GBM Drive & Travel Control
13	1	1250-755	DECAL, GBM Valve, Latching Frame
14	1	1250-544	DECAL, Made in USA
15***	1	1250-098	DECAL, Lease
16	2	REF	PLATE, Serial Number
17.1	2	1250-926	DECAL, GBM 339A
17.2	2	1250-850	DECAL, GBM 308A
18	6	1250-480	DECAL, Warning Pinch Points
19	6	1250-562	DECAL, Warning Pinch Points
20	4	1250-719	DECAL, Warning Moving Parts
21	1	1250-559	DECAL, USA Flag, Medium
22	3	1251-246	DECAL, Akkerman, Large
23	1	1250-927	DECAL, Latching Pin Indicator (339A Only)
24	1	1250-484	DECAL, Gear Box Lube Drain
25	2	1250-482	DECAL, Warning Moving Parts
26.1	1	1251-159A	DECAL, Lube Dump Control
26.2	1	1251-159B	DECAL, Lube Dump Control
26.3	1	1251-159C	DECAL, Lube Dump Control
27	4	1251-585	DECAL, Do Not Use Lifting Eye For Lifting Frame
28	1	1251-245	DECAL, Akkerman, XLarge

* GBM308A - SN FA40032F-01-15, 17, 19-21 With Add On PCH Valve Option Only
 GBM339A - SN FA43500F-01-06

** GBM308A - SN FA40032F-16, 18, 22 & After
 GBM339A - SN FA43500F-07 & After

*** Decal used only on leased equipment.

POWERED CUTTER HEAD VALVE DECALS
308A & 339A (SN FA43500F-03 & Before) ADD ON PCH VALVE OPTION

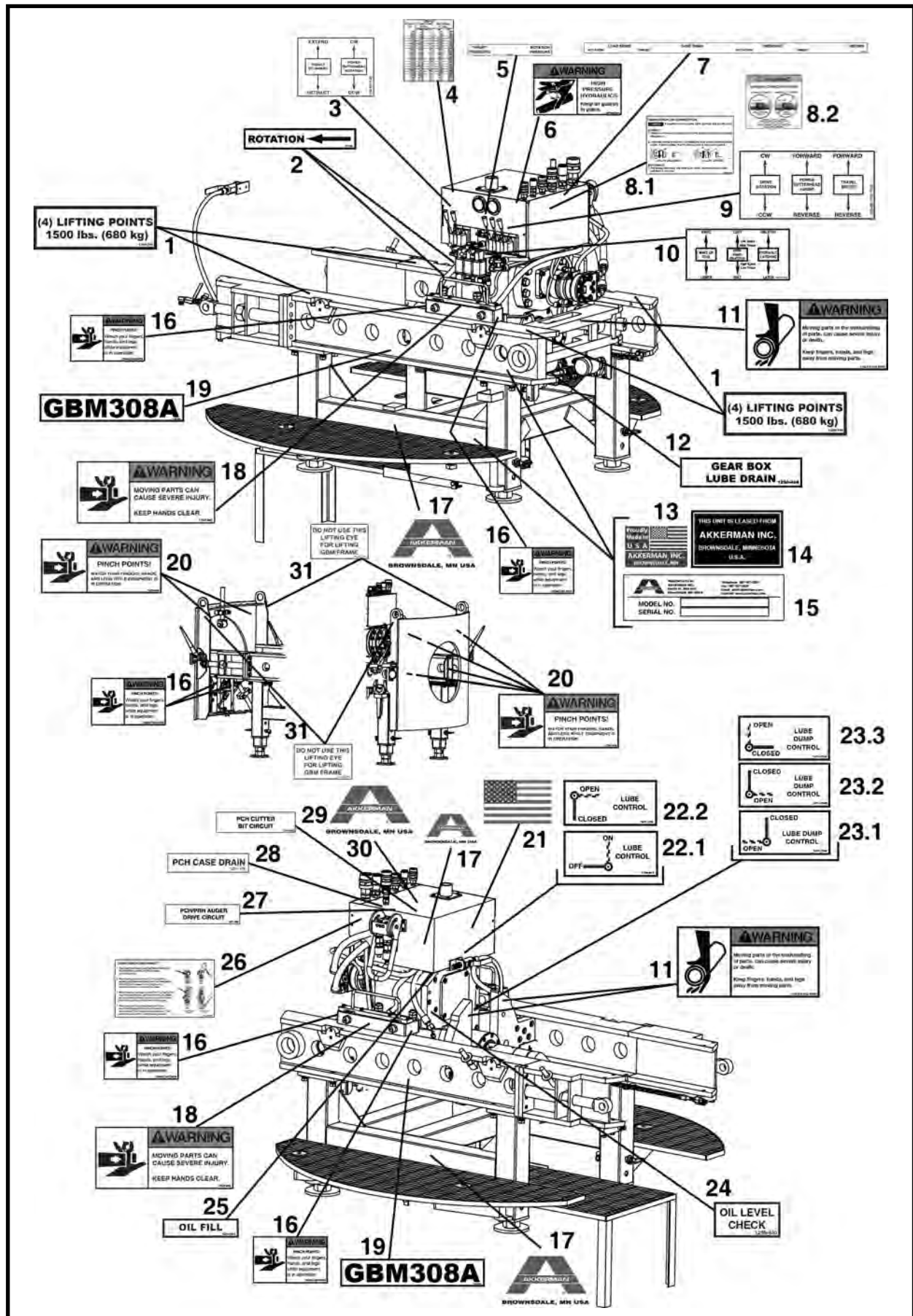


ITEM	QTY	PART NO.	DESCRIPTION
1	1	1250-905	DECAL, GBM Pressure Gauges - PCH
2	1	1250-867	DECAL, GBM Thrust Cylinder & PCH Rotation Controls
3	1	1250-866	DECAL, GBM Drive, Travel & PCH Auger Controls
4	1	1251-482	DECAL, PCH Cutter Bit Circuit
5	1	1251-176	DECAL, PCH Case Drain
6	1	1251-483	DECAL, PCH/PRH Auger Drive Circuit
7	1	1250-906	DECAL, Quick Disconnect - PCH

NOTES

LATCHING FRAME DECALS

308A WITH PCH CONTROLS



LATCHING FRAME DECALS
308A WITH PCH CONTROLS

ITEM	QTY	PART NO.	DESCRIPTION
1	4	1250-760	DECAL, Lifting Points, 1500 lbs.
2	2	3-700L	DECAL, Rotation, Left
3	1	1250-867	DECAL, GBM Thrust Cylinder & PCH Rotation Controls
4	1	1250-758	DECAL, GBM Pressure Chart
5	1	1250-761	DECAL, GBM Pressure Gauges
6	1	1250-003	DECAL, Warning High Pressure Hydraulics
7	1	1250-759	DECAL, GBM Hydraulic Connections
8.1***	1	1250-574	DECAL, Quick Coupler Connection
8.2+	1	1251-546	DECAL, Quick Coupler Connection
9	1	1250-866	DECAL, GBM Drive, Travel & PCH Auger Controls
10	1	1250-755	DECAL, GBM Valve, Latching Frame
11	4	1250-719	DECAL, Warning Moving Parts
12	1	1250-484	DECAL, Gear Box Lube Drain
13	1	1250-544	DECAL, Made in USA
14**	1	1250-098	DECAL, Lease
15	2	REF	PLATE, Serial Number
16	6	1250-562	DECAL, Warning Pinch Points
17	3	1251-246	DECAL, Akkerman, Large
18	2	1250-482	DECAL, Warning Moving Parts
19	2	1250-850	DECAL, GBM 308A
20	6	1250-480	DECAL, Warning Pinch Points
21	1	1250-559	DECAL, USA Flag, Medium
22.1	1	1250-929	DECAL, Lube Control
22.2	1	1251-158	DECAL, Lube Control
23.1	1	1251-159A	DECAL, Lube Dump Control
23.2	1	1251-159B	DECAL, Lube Dump Control
23.3	1	1251-159C	DECAL, Lube Dump Control
24	1	1250-930	DECAL, Oil Level Check
25	1	1250-492	DECAL, Oil Fill
26	1	1250-906	DECAL, Quick Disconnect - PCH
27	1	1251-483	DECAL, PCH/PRH Auger Drive Circuit
28	1	1251-176	DECAL, PCH Case Drain
29	1	1251-482	DECAL, PCH Cutter Bit Circuit
30	1	1251-245	DECAL, Akkerman, XLarge
31	4	1251-585	DECAL, Do Not Use Lifting Eye For Lifting Frame

* Units with Powered Cutter Head controls only.

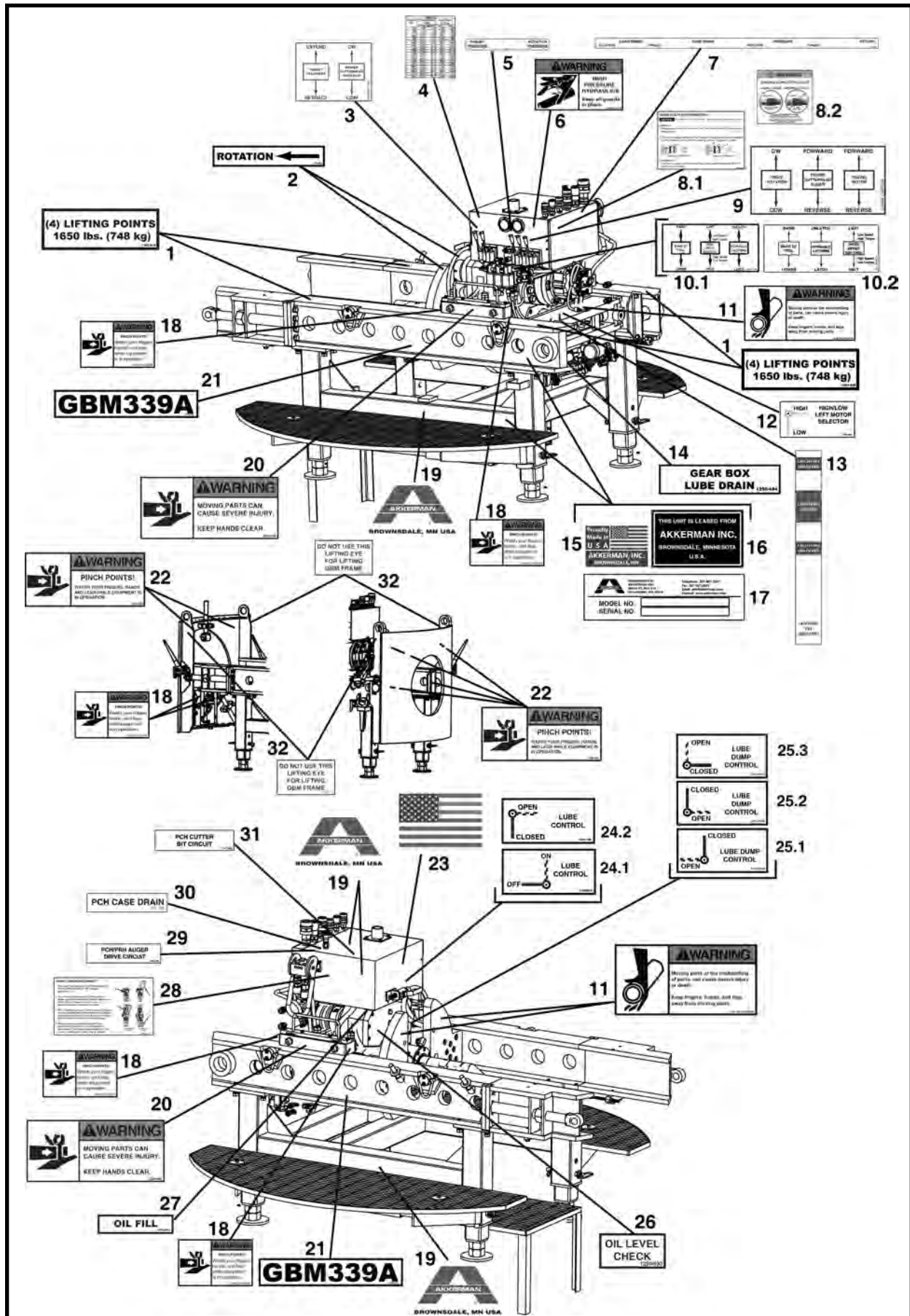
** Decal used only on leased equipment.

*** SN FA40032F-01-15, 17, 19-21 With Add On PCH Valve Option Only

+ SN FA40032F-16, 18, 22 & After

LATCHING FRAME DECALS

339A WITH PCH CONTROLS



LATCHING FRAME DECALS
339A WITH PCH CONTROLS

ITEM	QTY	PART NO.	DESCRIPTION
1	4	1250-928	DECAL, Lifting Points, 1650 lbs. (339A only)
2	2	3-700L	DECAL, Rotation, Left
3	1	1250-867	DECAL, GBM Thrust Cylinder & PCH Rotation Controls
4	1	1250-758	DECAL, GBM Pressure Chart
5	1	1250-761	DECAL, GBM Pressure Gauges
6	1	1250-003	DECAL, Warning High Pressure Hydraulics
7	1	1250-759	DECAL, GBM Hydraulic Connections
8.1*	1	1250-574	DECAL, Quick Coupler Connection
8.2**	1	1251-546	DECAL, Quick Coupler Connection
9	1	1250-866	DECAL, GBM Drive, PCH & Travel Control
10.1*	1	1250-755	DECAL, GBM Valve, Latching Frame
10.2**	1	1251-480	DECAL, GBM Valve, Latching Frame
11	4	1250-719	DECAL, Warning Moving Parts
12**	1	1251-481	DECAL, High/Low Left Motor Selector
13	1	1250-927	DECAL, Latching Pin Indicator
14	1	1250-484	DECAL, Gear Box Lube Drain
15	1	1250-544	DECAL, Made in USA
16***	1	1250-098	DECAL, Lease
17	2	REF	PLATE, Serial Number
18	6	1250-562	DECAL, Warning Pinch Points
19	4	1251-246	DECAL, Akkerman, Large
20	2	1250-482	DECAL, Warning Moving Parts
21	2	1250-926	DECAL, GBM 339A
22	6	1250-480	DECAL, Warning Pinch Points
23	1	1250-559	DECAL, USA Flag, Medium
24.1	1	1250-929	DECAL, Lube Control
24.2	1	1251-158	DECAL, Lube Control
25.1	1	1251-159A	DECAL, Lube Dump Control
25.2	1	1251-159B	DECAL, Lube Dump Control
25.3	1	1251-159C	DECAL, Lube Dump Control
26	1	1250-930	DECAL, Oil Level Check
27	1	1250-492	DECAL, Oil Fill
28	1	1250-906	DECAL, Quick Disconnect - PCH
29	1	1251-483	DECAL, PCH/PRH Auger Drive Circuit
30	1	1251-176	DECAL, PCH Case Drain
31	1	1251-482	DECAL, PCH Cutter Bit Circuit
32	4	1251-585	DECAL, Do Not Use Lifting Eye For Lifting Frame

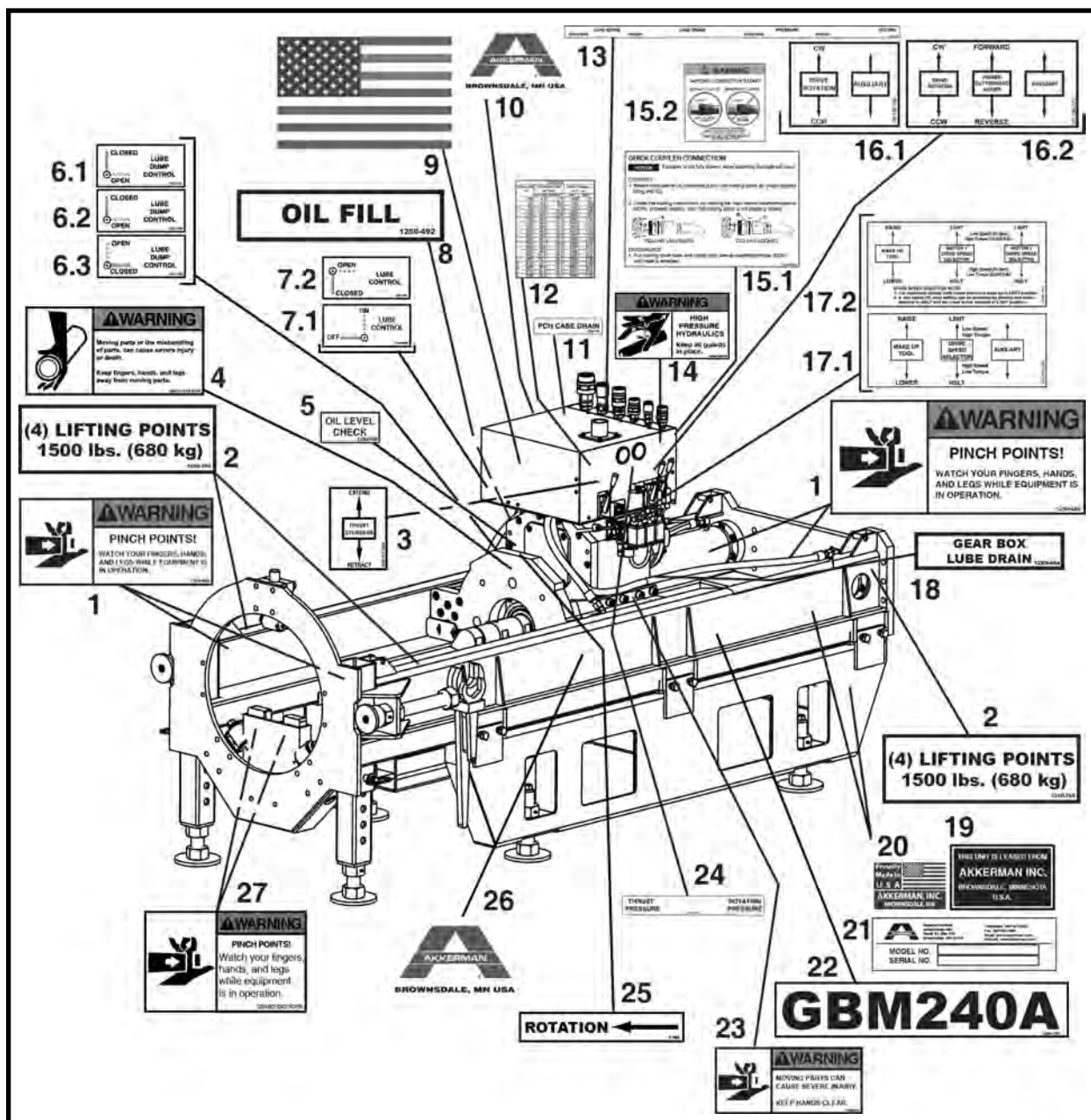
* SN FA43500F-01 thru 06

** SN FA43500F-07 & After

*** Decal used only on leased equipment.

SINGLE STAGE FRAME DECALS

240A



ITEM	QTY	PART NO.	DESCRIPTION
1	4	1250-480	DECAL, Warning Pinch Points
2	4	1250-760	DECAL, Lifting Points, 1500 lbs.
3	1	1250-757	DECAL, GBM Thrust Cylinder Control
4	1	1250-719	DECAL, Warning Moving Parts
5	1	1250-930	DECAL, Oil Level Check
6.1	1	1251-159A	DECAL, Lube Dump Control
6.2	1	1251-159B	DECAL, Lube Dump Control
6.3	1	1251-159C	DECAL, Lube Dump Control
7.1	1	1250-929	DECAL, Lube Control
7.2	1	1251-158	DECAL, Lube Control
8	1	1250-492	DECAL, Oil Fill
9	1	1250-559	DECAL, USA Flag, Medium
10	1	1251-247	DECAL, Akkerman, Medium
11	1	1251-176	DECAL, PCH Case Drain

SINGLE STAGE FRAME DECALS

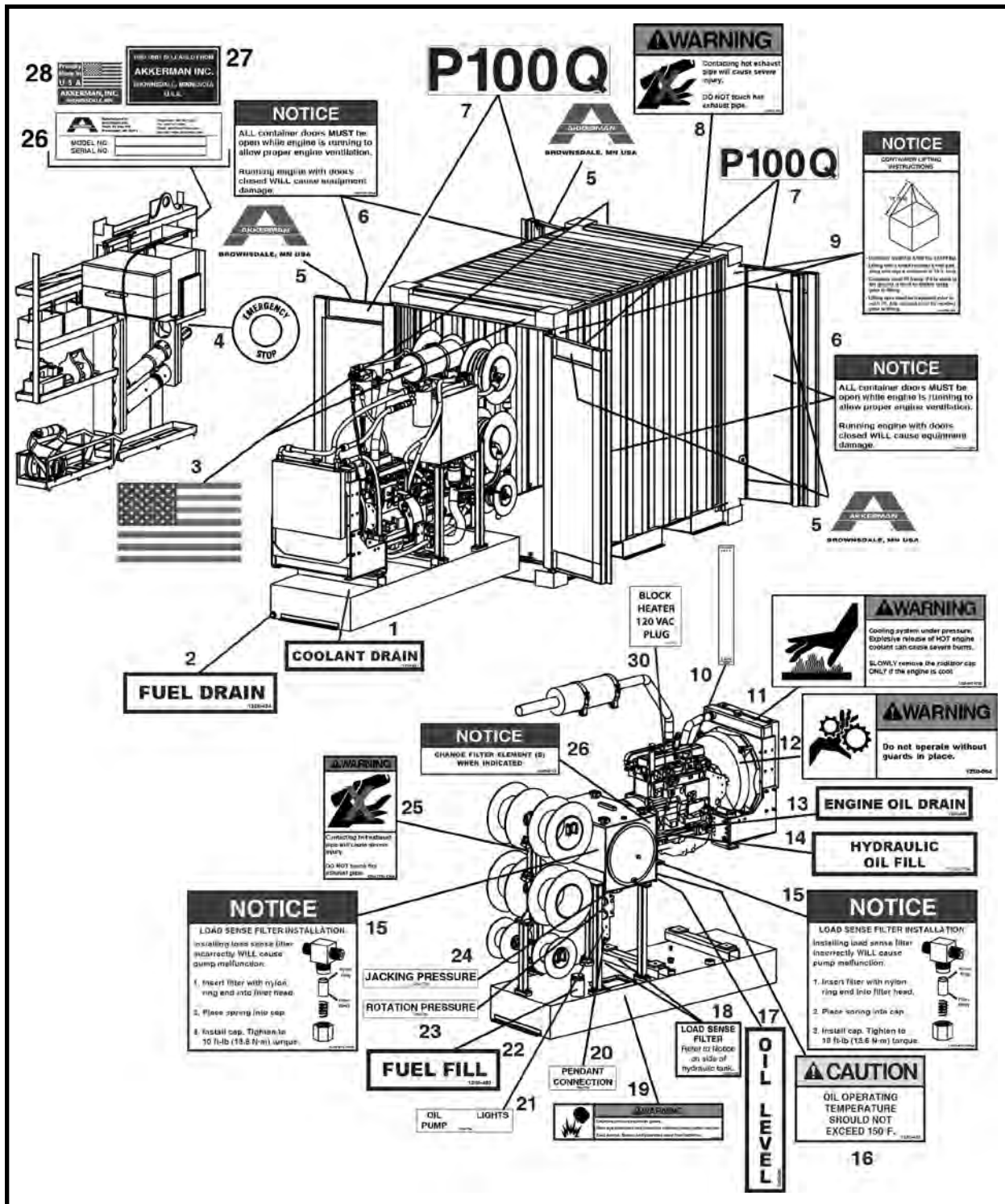
240A

ITEM	QTY	PART NO.	DESCRIPTION
12	1	1250-758	DECAL, GBM Pressure Chart
13	1	1250-759	DECAL, GBM Hydraulic Connections
14	1	1250-003	DECAL, Warning High Pressure Hydraulics
15.1	1	1250-574	DECAL, Quick Coupler Connection (SN FA40027F-59 & Before)
15.2	1	1251-546	DECAL, Quick Coupler Connection (SN FA40027F-60 & After)
16.1	1	1251-156a	DECAL, GBM Drive Rotation & Auxiliary Control (Without PCH Option)
16.2	1	1251-156b	DECAL, GBM Drive Rotation, PCH & Aux. Controls (With PCH Option)
17.1	1	1250-764	DECAL, GBM Valve, Single Stage Frame (SN FA40027F-55 & Before)
17.2	1	1251-461	DECAL, GBM Valve, Single Stage Frame (SN FA40027F-56 & After)
18	1	1250-484	DECAL, Gear Box Oil Drain
19*	2	1250-098	DECAL, Lease
20	2	1250-544	DECAL, Made in USA
21	2	REF	PLATE, Serial Number
22	2	1250-753	DECAL, GBM 240A
23	2	1250-482	DECAL, Warning Moving Parts
24	1	1250-761	DECAL, Pressure Gauges
25	1	3-700L	DECAL, Rotation Left
26	3	1251-246	DECAL, Akkerman, Large
27	2	1250-562	DECAL, Warning Pinch Points

* Decal used only on leased equipment.

POWER PACK DECALS

P100Q



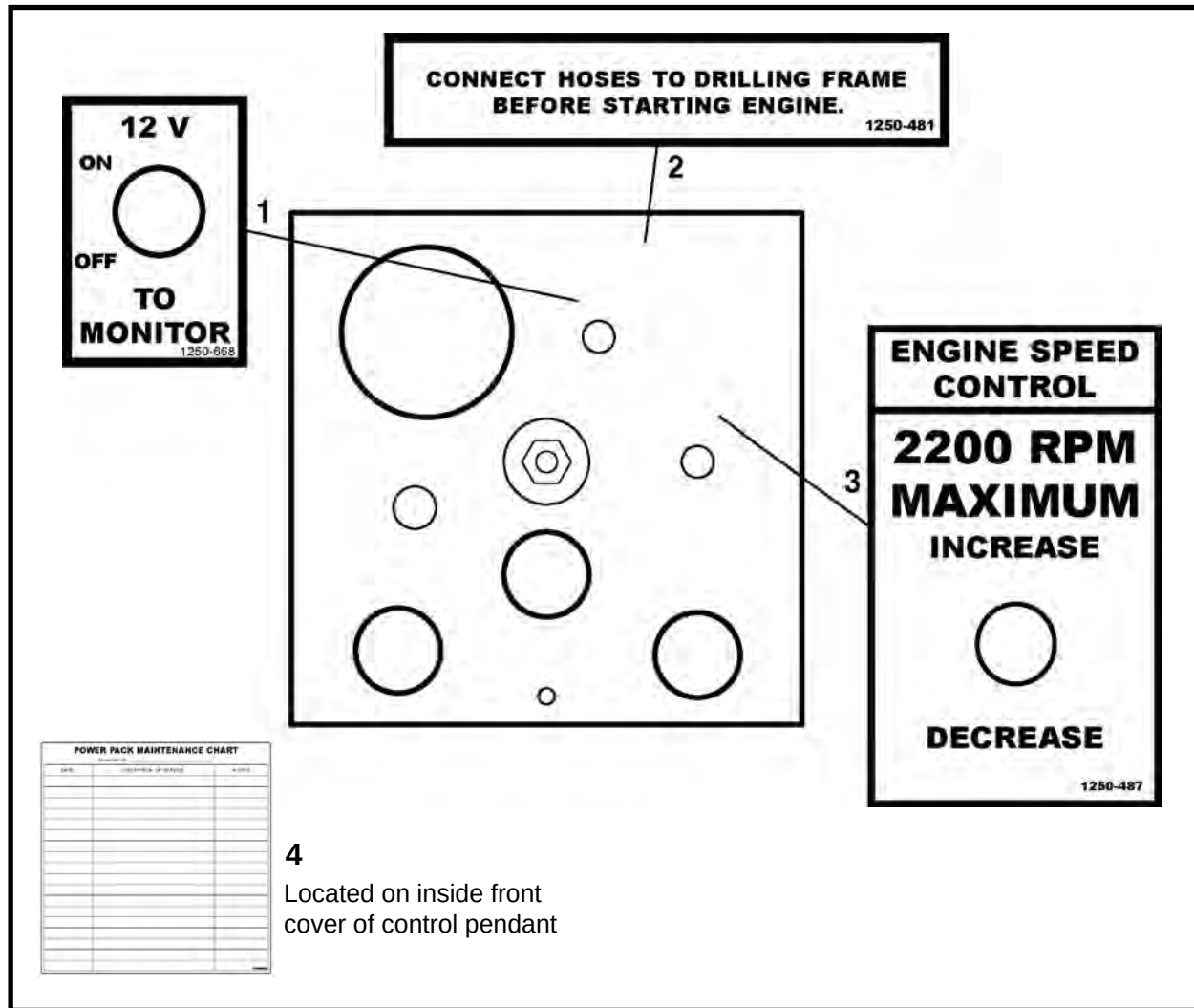
ITEM	QTY	PART NO.	DESCRIPTION
1	1	1250-527	DECAL, Coolant Drain
2	1	1250-494	DECAL, Fuel Drain
3	2	1250-558	DECAL, USA Flag, Small
4	1	P0310-474F	DECAL, Emergency Stop
5	4	1250-547	DECAL, Akkerman, Large
6	4	1250-776	DECAL, Notice Container Doors Open
7	4	1250-773	DECAL Model P100Q

POWER PACK DECALS

P100Q

ITEM	QTY	PART NO.	DESCRIPTION
8	1	1250-777a	DECAL, Warning Hot Exhaust
9	4	1250-778	DECAL, Container Lifting Instructions
10	1	1250-932	DECAL, Reservoir Level Gauge
11	1	1250-697	DECAL, Warning Coolant System Pressure
12	1	1250-004	DECAL, Warning Keep Guards In Place
13	1	1250-498	DECAL, Engine Oil Drain
14	1	1250-854	DECAL, Hydraulic Oil Fill
15	2	1250-872	DECAL, Load Sense Filter Installation
16	1	1250-483	DECAL, Caution Oil Temperature
17	1	1250-649	DECAL, Oil Level
18	2	1250-873	DECAL, Load Sense Filter
19	1	1251-016	DECAL, Warning Battery Produce Explosive Gases
20	1	1250-775d	DECAL, Pendant Connection
21	1	1250-775a	DECAL, Oil Pump/Lights
22	1	1250-493	DECAL, Fuel Fill
23	1	1250-775c	DECAL, Rotation Pressure
24	1	1250-775b	DECAL, Jacking Pressure
25	1	1250-777b	DECAL, Warning Hot Exhaust, Small
26	1	40000-16	DECAL, Notice Change Filter
27	1	REF	PLATE, Serial Number
28	1	1250-098	DECAL, Lease (used only with leased equipment)
29	1	1250-544	DECAL, Made in USA
30	1	1251-497	DECAL, Block Heater 120 VAC Plug (SN FA42440F-90 & After)

REMOTE INSTRUMENT PANEL DECALS **P100Q CONTROL PENDANT (Earlier Models)**

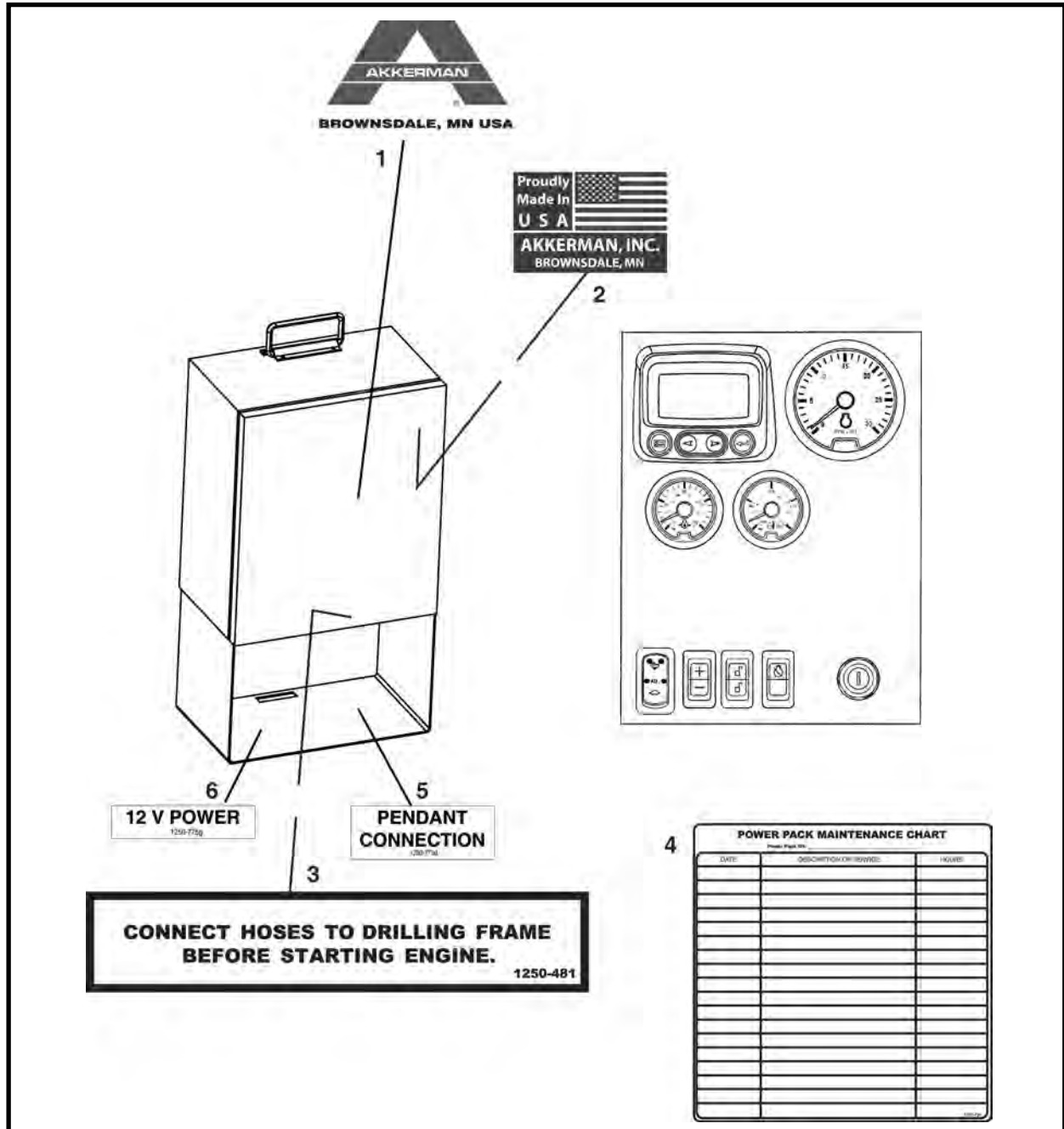


ITEM	QTY	PART NO.	DESCRIPTION
1*	1	1250-668	DECAL, 12 V To Monitor
2	1	1250-481	DECAL, Connect Hoses
3	1	1250-487	DECAL, Engine Speed Control
4	1	1250-724	DECAL, Power Pack Maintenance Chart
5**	1	1250-544	DECAL, Akkerman Medium

* SN: FA42440F-1 thru 68 only. SN: FA42440F-69 and after do not have the toggle switch.

** Located on cover.

REMOTE INSTRUMENT PANEL DECALS P100Q CONTROL PENDANT (Later Models)

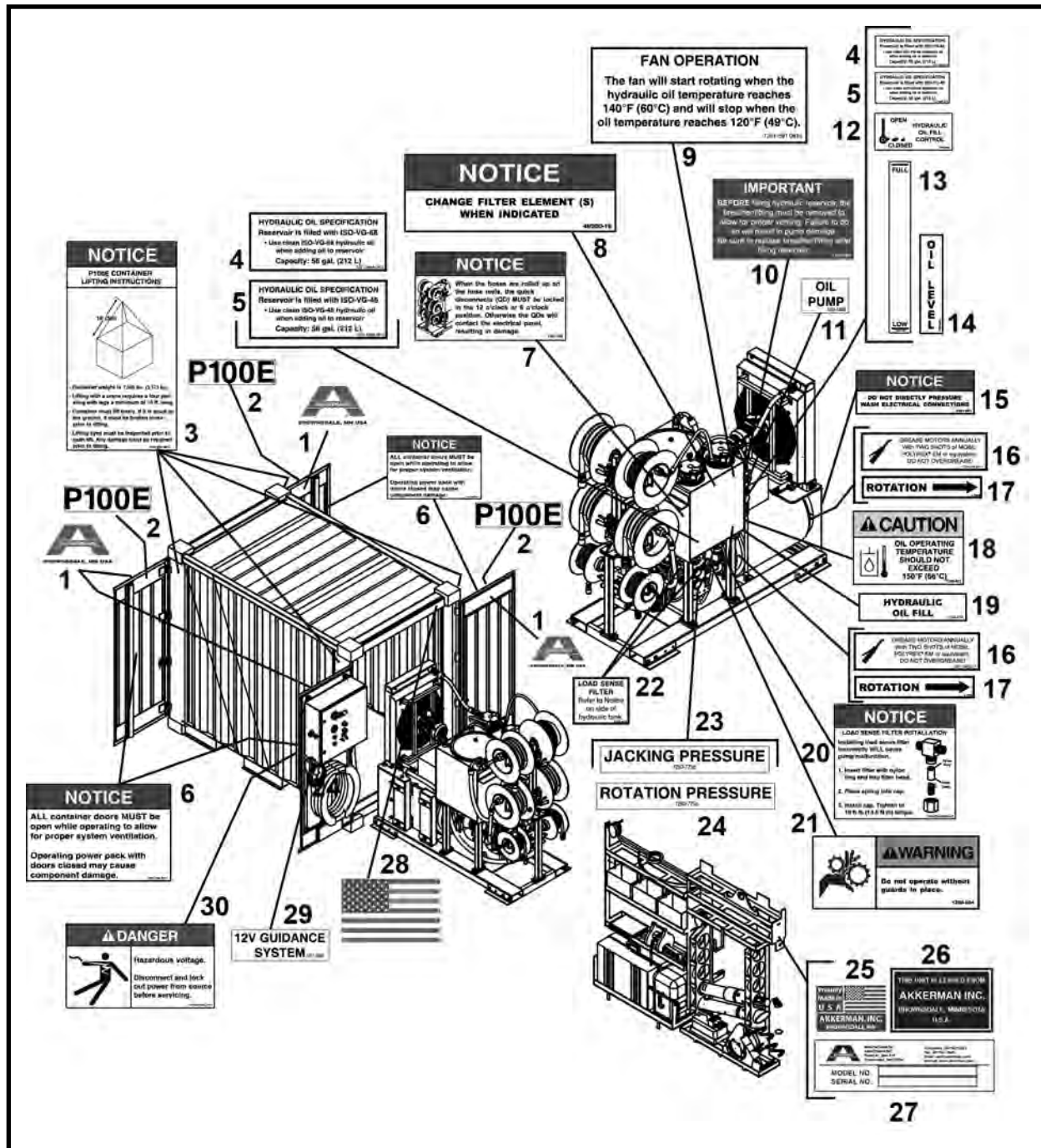


ITEM	QTY	PART NO.	DESCRIPTION
1	1	1251-247	DECAL, Akkerman Medium
2	1	1250-544	DECAL, Made In USA
3	1	1250-481	DECAL, Connect Hoses
4*	1	1250-724	DECAL, Power Pack Maintenance Chart
5	1	1250-775d	DECAL, Pendant Connection
6	1	1250-775g	DECAL, 12V Power

* Located on inside front cover of instrument panel.

POWER PACK DECALS

P100E



ITEM	QTY	PART NO.	DESCRIPTION
1	4	1250-547	DECAL, Akkerman, Large
2	3	1251-587	DECAL, P100E
3	4	1251-594	DECAL, Notice Lifting Instructions
4	2	1251-588A	DECAL, Hydraulic Oil Specification ISO-VG-68
5	2	1251-588B	DECAL, Hydraulic Oil Specification ISO-VG-46
6	4	1251-338	DECAL, Notice, Container Doors Open
7	1	1251-592	DECAL, Notice, QD Lock Position
8	1	40000-16	DECAL, Notice, Change Filter
9	1	1251-591	DECAL, Fan Operation
10	1	1251-598	DECAL, Important, Remove Breather Before Filling

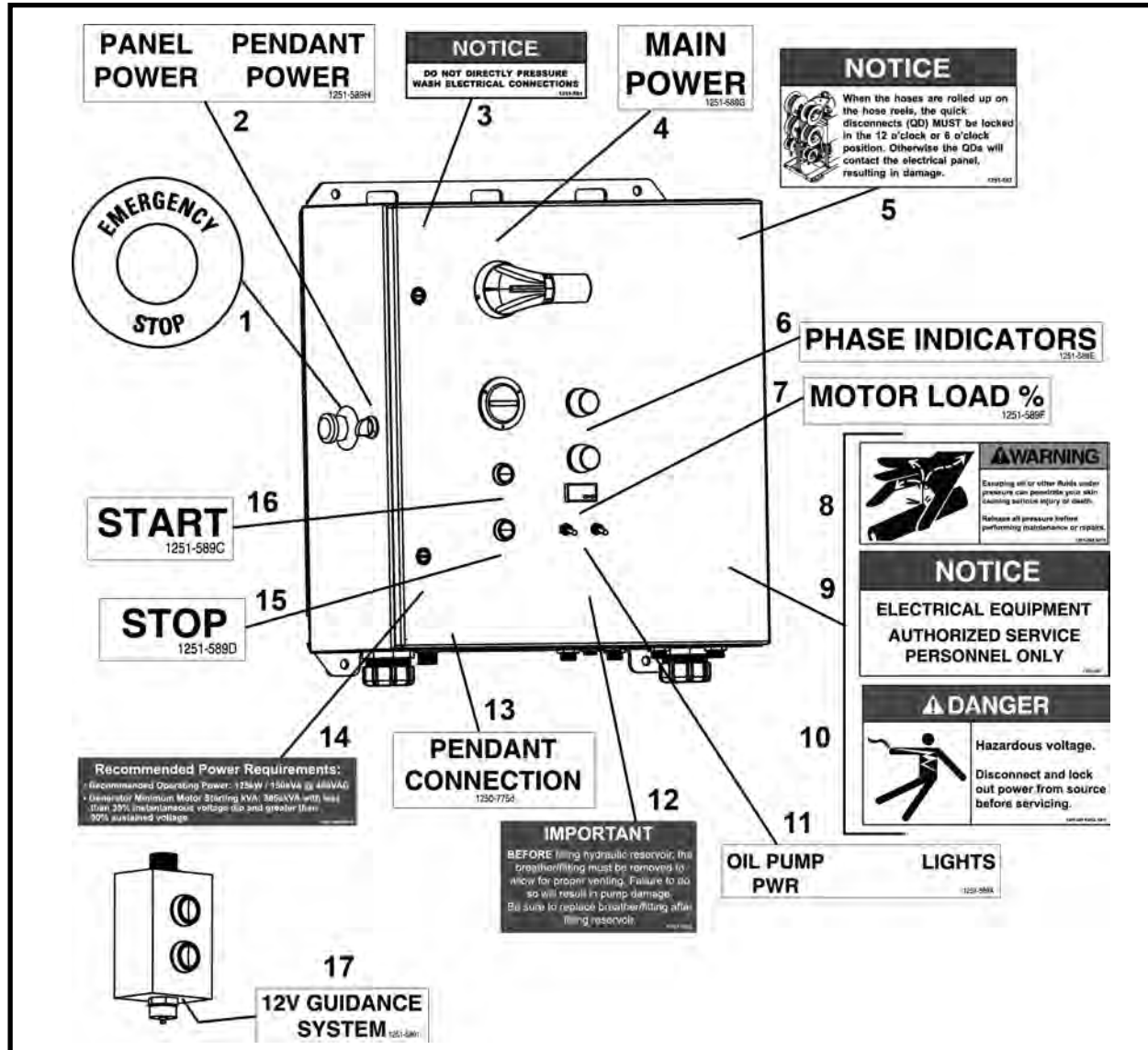
POWER PACK DECALS

P100E

ITEM	QTY	PART NO.	DESCRIPTION
11	1	1251-589B	DECAL, Oil Pump
12	1	1251-602	DECAL, Hydraulic Oil Fill Control
13	1	1250-932	DECAL, Reservoir Level Gauge
14	1	1250-649	DECAL, Oil Level
15	1	1251-561	DECAL, Notice, Do Not Directly Wash Connections
16	2	1251-349	DECAL, Grease Motors Annually
17	2	3-700R	DECAL, Rotation Right Arrow
18	1	1250-483	DECAL, Caution, Oil Temperature
19	1	1250-854	DECAL, Hydraulic Oil Fill
20	1	1250-872	DECAL, Load Sense Filter Installation
21	1	1250-004	DECAL, Keep Guards In Place
22	2	1250-873	DECAL, Load Sense Filter
23	1	1250-775b	DECAL, Jacking Pressure
24	1	1250-775c	DECAL, Rotation Pressure
25	1	1250-544	DECAL, Proudly Made In USA
26*	1	1250-098	DECAL, Lease
27	1	REF	PLATE, Serial Number
28	2	1250-558	DECAL, USA Flag, Small
29	1	1251-589I	DECAL, 12V Guidance System
30	1	1250-385	DECAL, Hazardous Voltage

* Decal used only on leased equipment.

P100E CONTROL PANEL DECALS **P100E CONTROL PANEL**

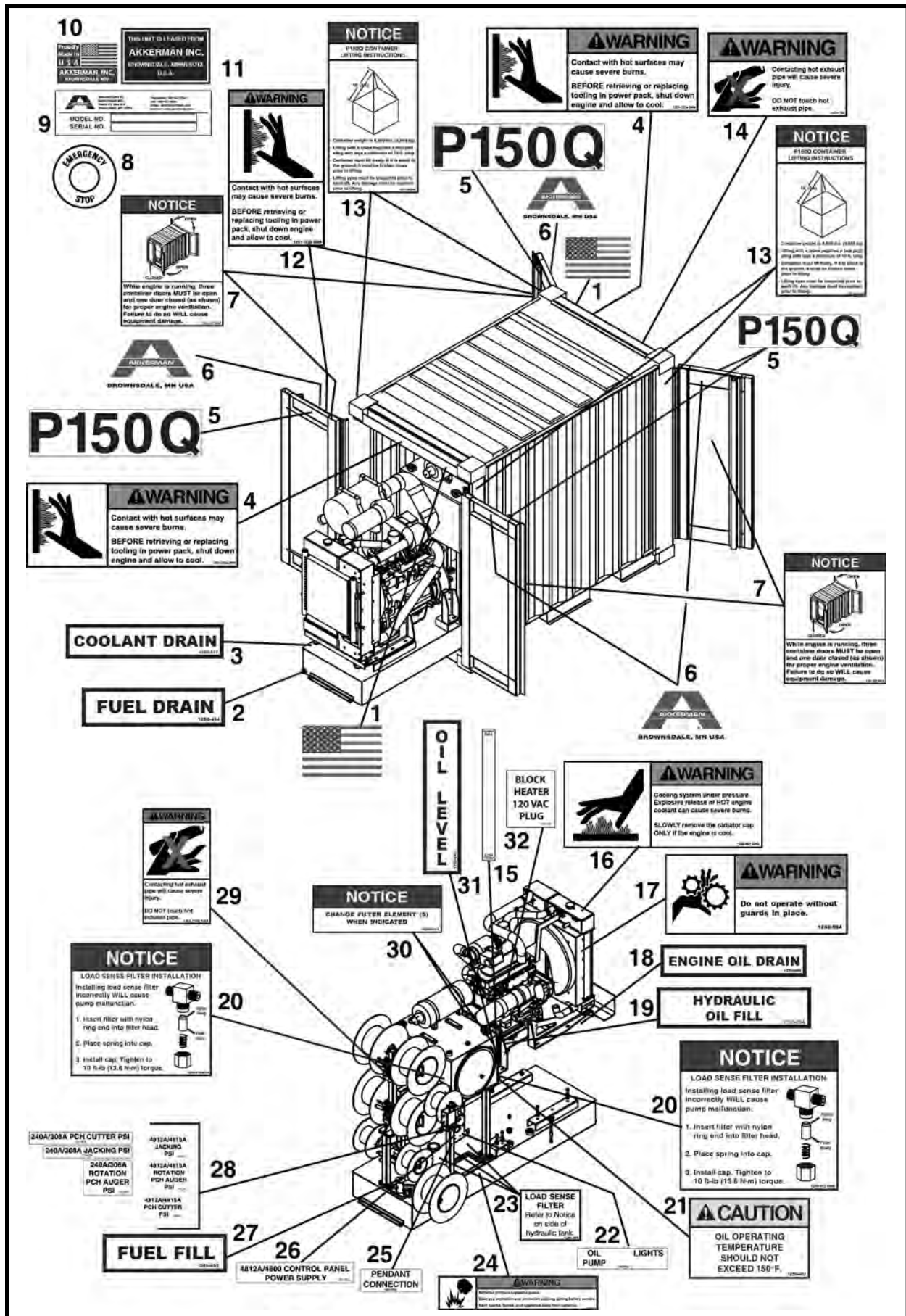


ITEM	QTY	PART NO.	DESCRIPTION
1	1	P0310-474F	DECAL, Emergency Stop
2	1	1251-589H	DECAL, Panel Power/Pendant Power
3	1	1251-561	DECAL, Notice, Do Not Directly Wash Connections
4	1	1251-598G	DECAL, Main Power
5	1	1251-592	DECAL, Notice, QD Lock Position
6	1	1251-589E	DECAL, Phase Indicators
7	1	1251-589F	DECAL, Motor Load %
8	1	1251-593	DECAL, Warning, Escaping Oil
9	1	1250-383	DECAL, Electrical Equipment
10	1	1250-385	DECAL, Danger, Hazardous Voltage
11	1	1251-589A	DECAL, Oil Pump Pwr/Lights
12	1	1251-598	DECAL, Important, Remove Breather Before Filling
13	1	1250-775d	DECAL, Pendant Connection
14	1	1251-590	DECAL, Recommended Power Requirements
15	1	1251-589D	DECAL, Stop
16	1	1251-589C	DECAL, Start
17	1	1251-589I	DECAL, 12V Guidance System

NOTES

POWER PACK DECALS

P150Q

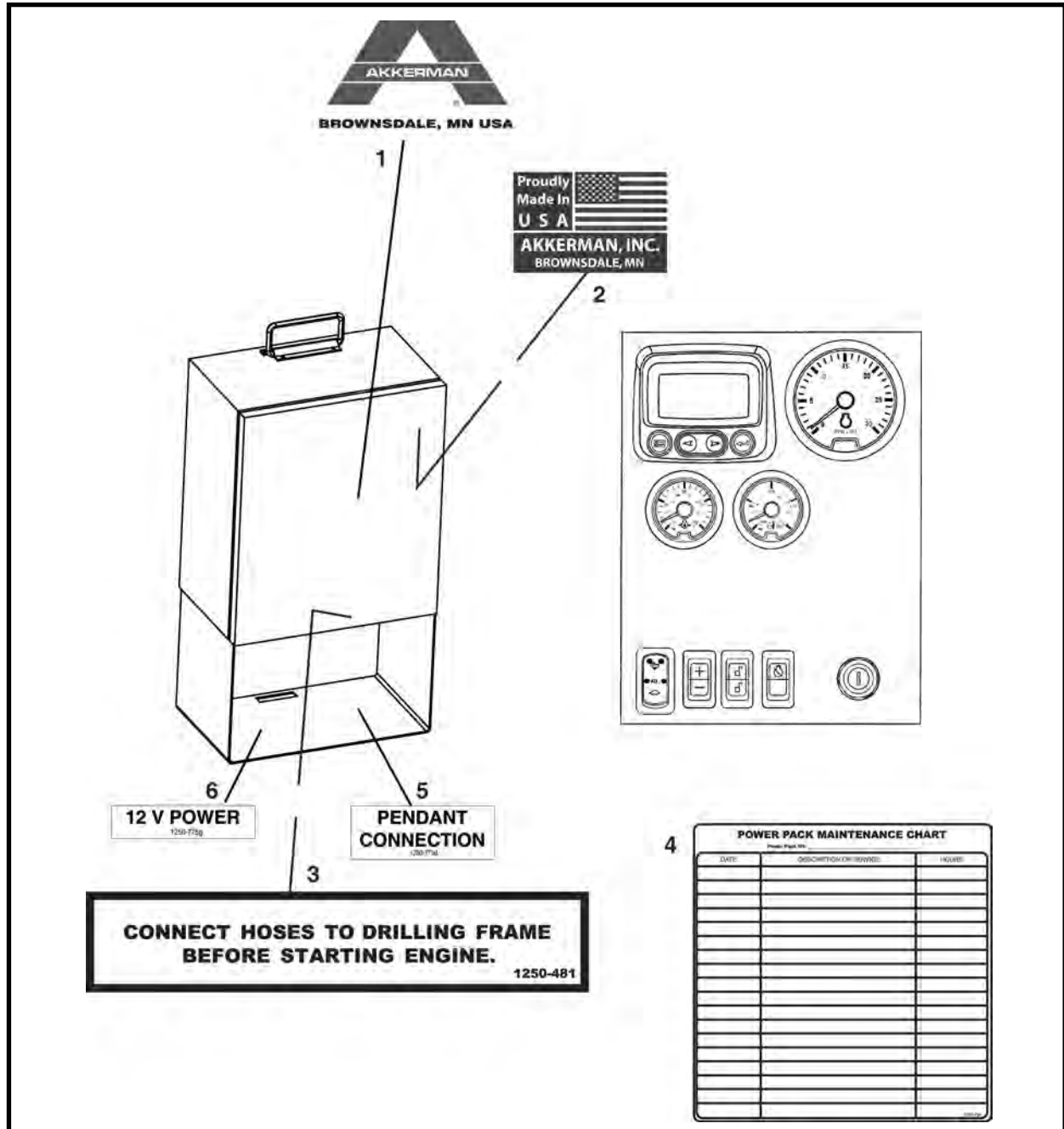


POWER PACK DECALS

P150Q

ITEM	QTY	PART NO.	DESCRIPTION
1	2	1250-558	DECAL, USA Flag, Small
2	1	1250-494	DECAL, Fuel Drain
3	1	1250-527	DECAL, Coolant Drain
4	2	1251-223a	DECAL, Warning Contact With Hot Surfaces
5	4	1251-206	DECAL Model P150Q
6	4	1251-246	DECAL, Akkerman, Large
7	4	1251-207	DECAL, Notice Container Doors Open
8	1	P0310-474F	DECAL, Emergency Stop
9	1	REF	PLATE, Serial Number
10	1	1250-544	DECAL, Made in USA
11	1	1250-098	DECAL, Lease (used only with leased equipment)
12	2	1251-223b	DECAL, Warning Contact With Hot Surfaces
13	4	1251-209	DECAL, Container Lifting Instructions
14	1	1250-777a	DECAL, Warning Hot Exhaust
15	1	1251-222	DECAL, Reservoir Level Gauge
16	1	1250-697	DECAL, Warning Coolant System Pressure
17	1	1250-004	DECAL, Warning Keep Guards In Place
18	1	1250-498	DECAL, Engine Oil Drain
19	1	1250-854	DECAL, Hydraulic Oil Fill
20	2	1250-872	DECAL, Load Sense Filter Installation
21	1	1250-483	DECAL, Caution Oil Temperature
22	1	1250-775a	DECAL, Oil Pump/Lights
23	3	1250-873	DECAL, Load Sense Filter
24	1	1251-016	DECAL, Warning Battery Produce Explosive Gases
25	1	1250-775d	DECAL, Pendant Connection
26	1	1251-237g	DECAL, 4812A/4800 Control Panel Power Supply
27	1	1250-493	DECAL, Fuel Fill
28a	1	1251-237a	DECAL, 240A/308A PCH Cutter PSI
28b	1	1251-237b	DECAL, 240A/308A Jacking PSI
28c	1	1251-237c	DECAL, 240A/308A Rotation PCH Auger PSI
28d	1	1251-237d	DECAL, 4812A/4800 Jacking PSI
28e	1	1251-237e	DECAL, 4812A/4800 Rotation PCH Auger PSI
28f	1	1251-237f	DECAL, 4812A/4800 PCH Cutter PSI
29	1	1250-777b	DECAL, Warning Hot Exhaust, Small
30	2	40000-16	DECAL, Notice Change Filter
31	1	1250-649	DECAL, Oil Level
32	1	1251-497	DECAL, Block Heater 120 VAC Plug

REMOTE INSTRUMENT PANEL DECALS P150Q PENDANT



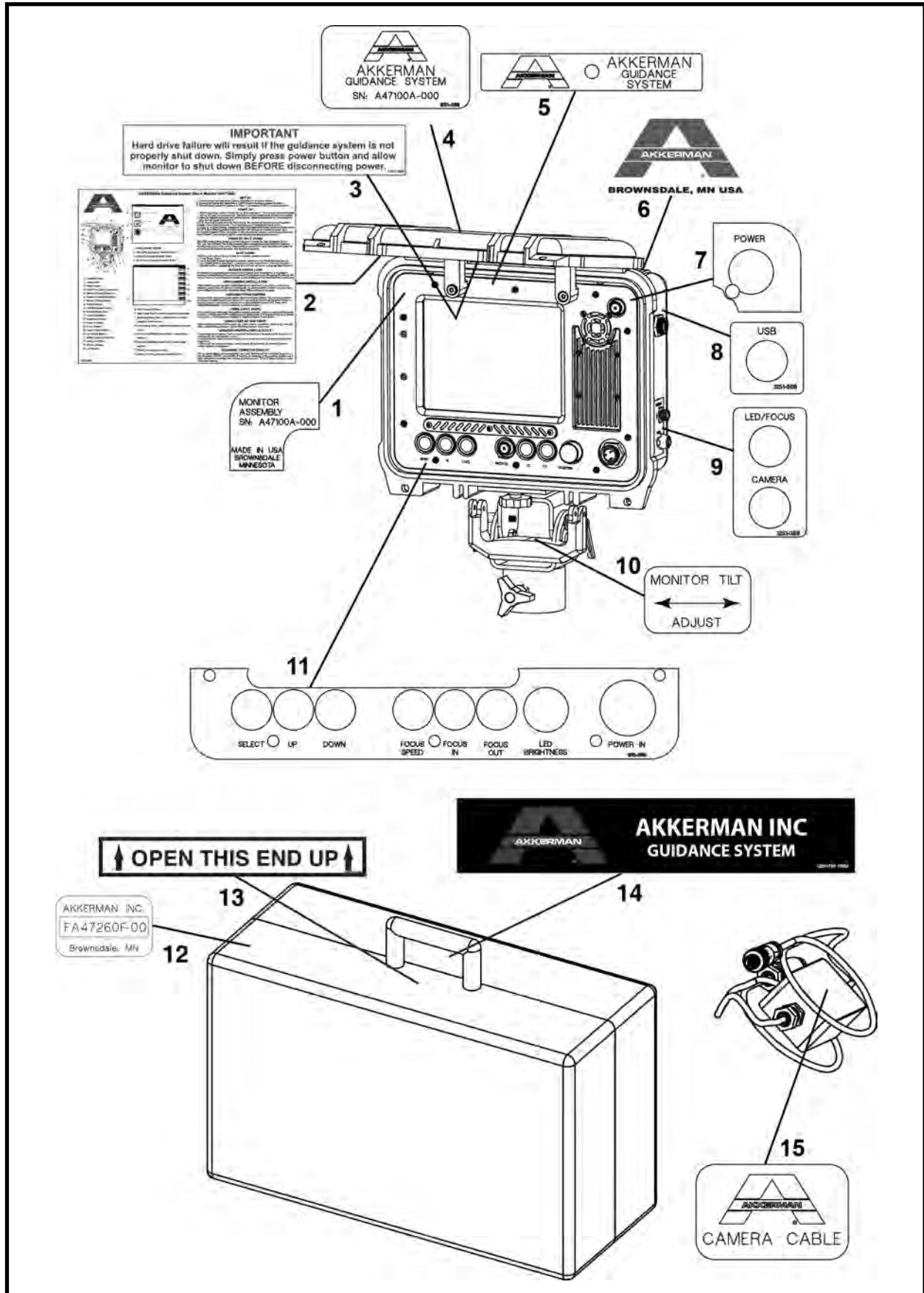
ITEM	QTY	PART NO.	DESCRIPTION
1	1	1251-247	DECAL, Akkerman Medium
2	1	1250-544	DECAL, Made In USA
3	1	1250-481	DECAL, Connect Hoses
4*	1	1250-724	DECAL, Power Pack Maintenance Chart
5	1	1250-775d	DECAL, Pendant Connection
6	1	1250-775g	DECAL, 12V Power

* Located on inside front cover of instrument panel.

NOTES

GUIDANCE SYSTEM GEN 4 DECALS

GEN 4 GUIDANCE SYSTEM (SN FA47260F)

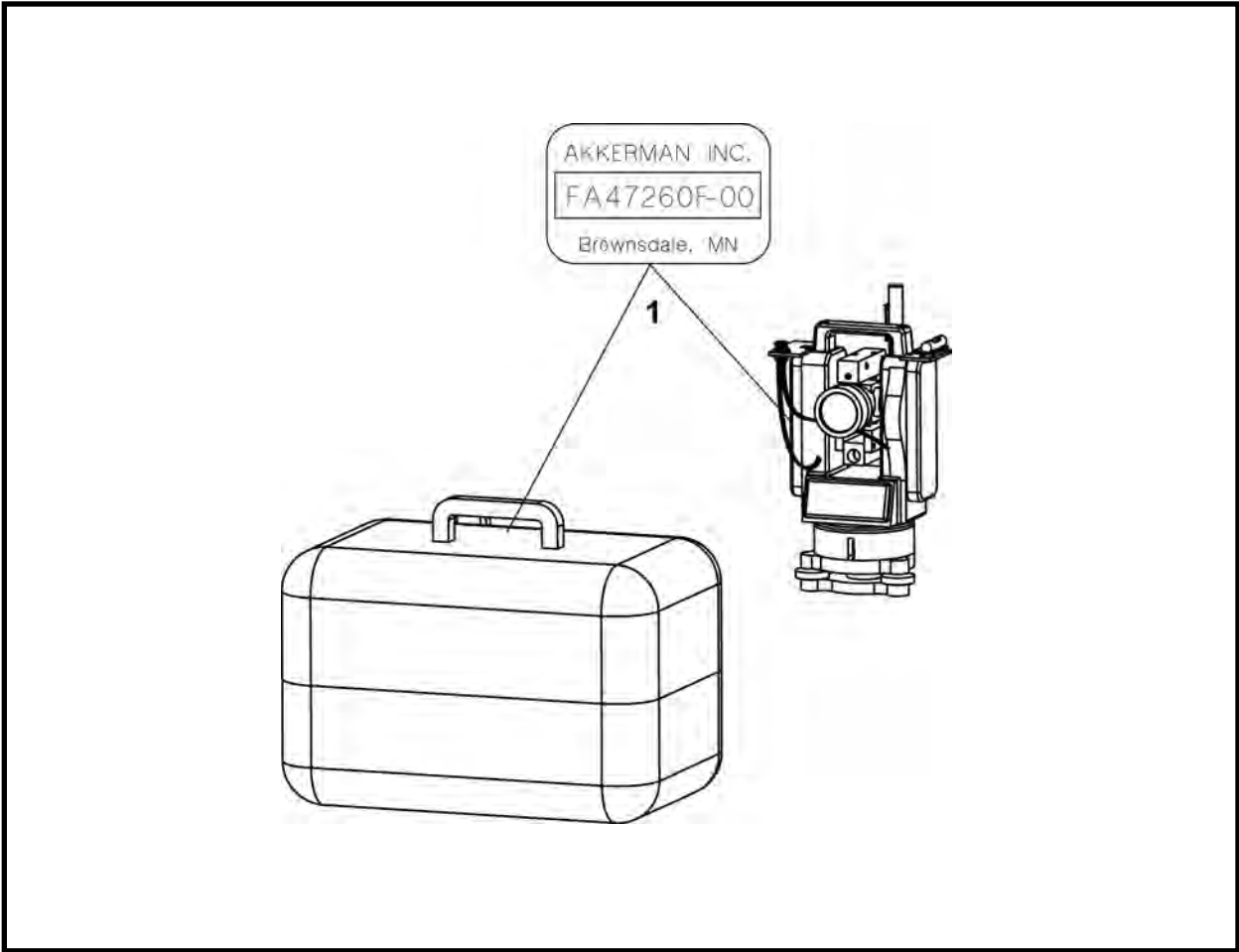


GUIDANCE SYSTEM GEN 4 DECALS

GEN 4 GUIDANCE SYSTEM (SN FA47260F)

ITEM	QTY	PART NO.	DESCRIPTION
1	1	1251-369B	LABEL, Monitor Assembly Serial Number
2	1	1251-439	DECAL, Akkerman Guidance System Gen 4 Monitor
3	1	1251-599	DECAL, Important Hard Drive Failure
4	1	1251-369J	LABEL, Akkerman Guidance System Monitor Serial Number
5	1	1251-369C	DECAL, Akkerman Guidance System
6	1	1251-247	DECAL, Akkerman Medium (Mounted on Docking Station)
7	1	1251-369D	LABEL, Power
8	1	1251-369E	LABEL, USB
9	1	1251-369F	LABEL, LED/Focus - Camera
10	1	1251-369G	LABEL, Monitor Tilt
11	1	1251-369A	LABEL, Control Buttons
12	1	1251-369K	LABEL, Case Akkerman Serial Number
13	1	1250-765	DECAL, Open This Side
14	1	1250-766	DECAL, Akkerman Inc Guidance System
15	1	1251-369I	LABEL, Camera Cable

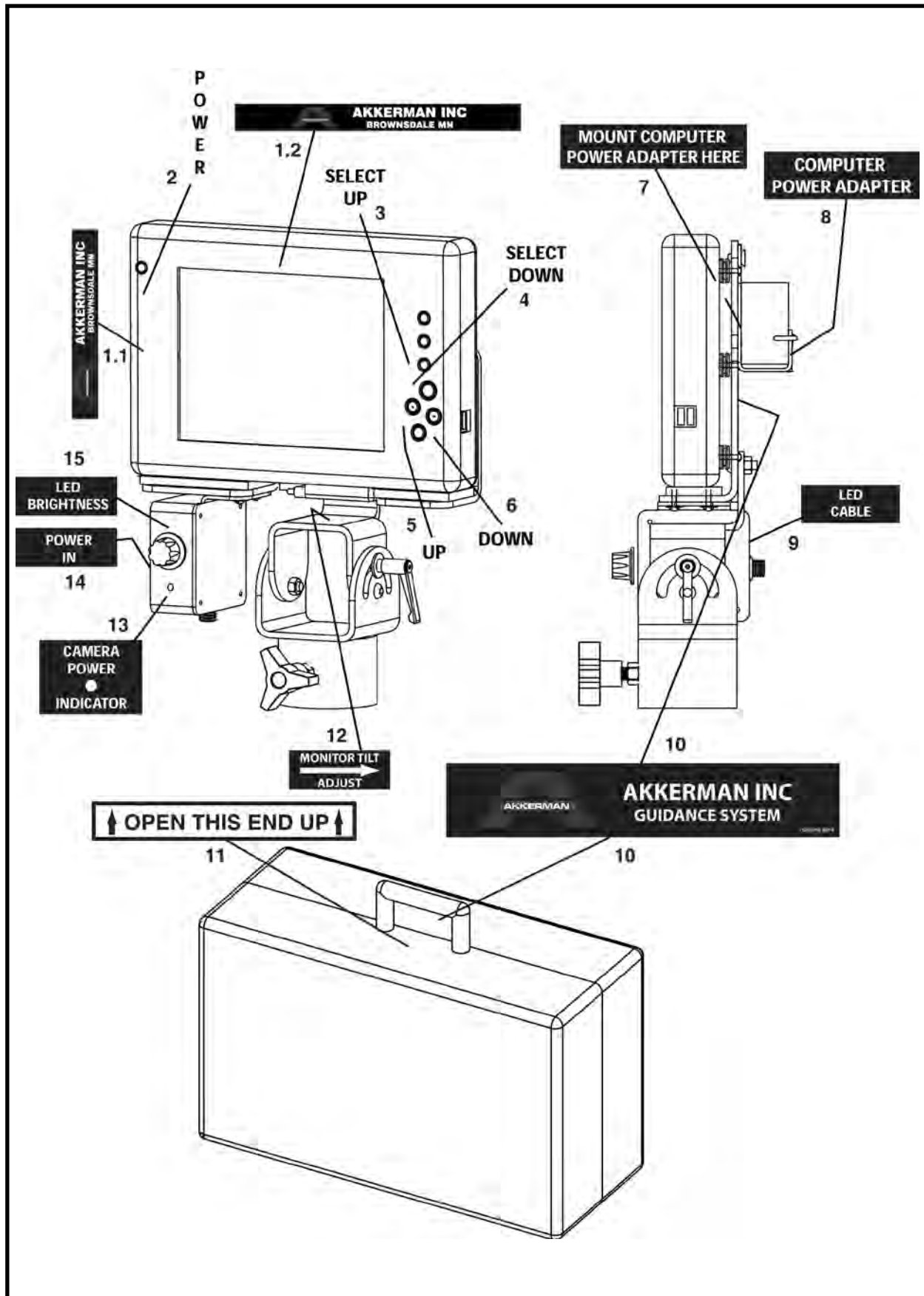
THEODOLITE DECALS
GEN 4 GUIDANCE SYSTEM



ITEM	QTY	PART NO.	DESCRIPTION
1	1	-	LABEL, Theodolite Serial Number

NOTES

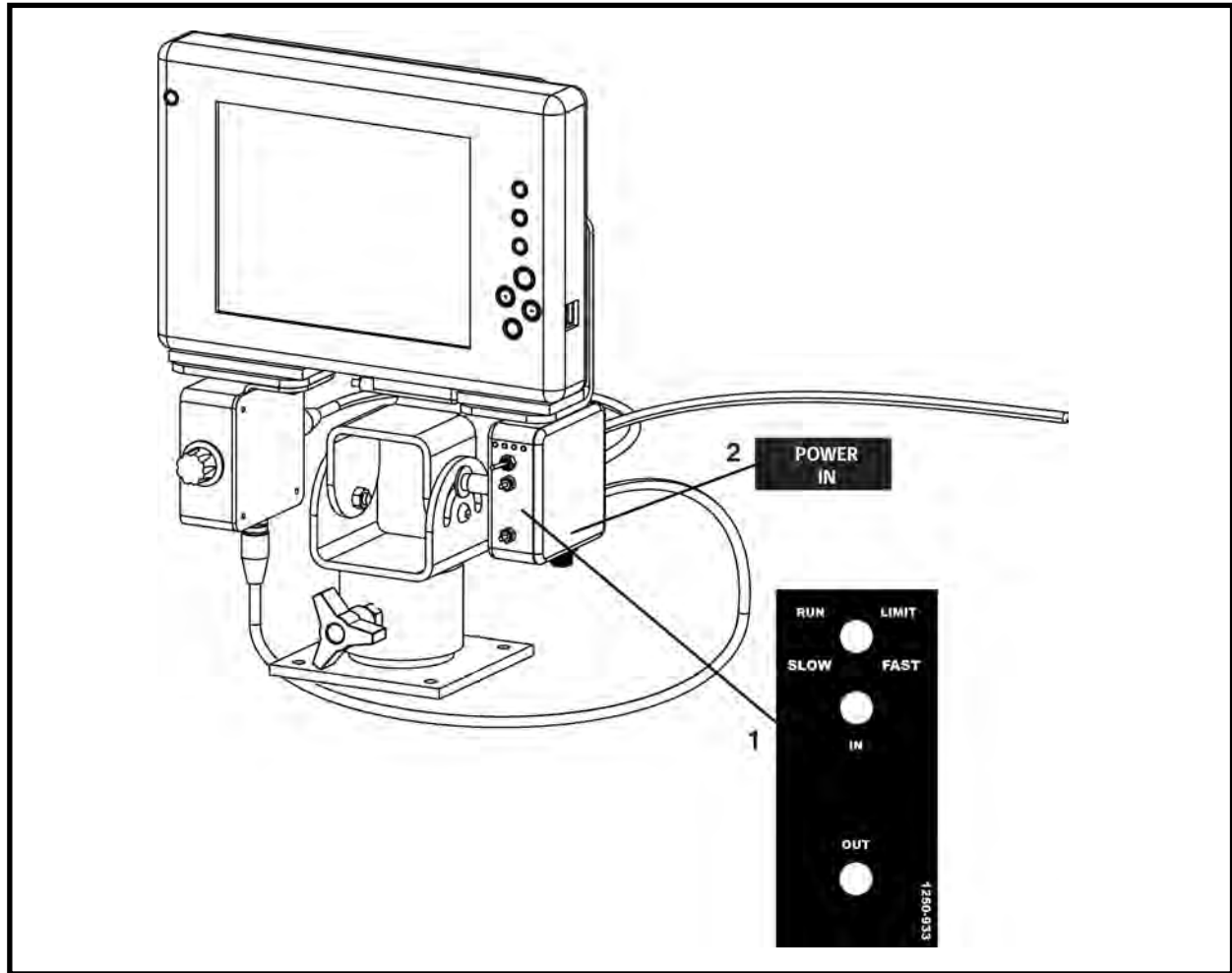
GUIDANCE SYSTEM GEN 3 DECALS (SN FA42035F-86 & BEFORE)



GUIDANCE SYSTEM GEN 3 DECALS
(SN FA42035F-86 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
1.1	1	1250-752B	DECAL, Guidance System Layout (1.94 x .25)
1.2	1	1250-752B1	DECAL, Guidance System Layout (3.5 x .3125)
2	1	1250-752A	DECAL, Power
3	1	1250-752F	DECAL, Select Up
4	1	1250-752G	DECAL, Select Down
5	1	1250-752H	DECAL, Down
6	1	1250-752I	DECAL, Up
7	1	1250-752K	DECAL, Mount Power Adapter Here
8	1	1250-752L	DECAL, Computer Power Adapter
9	1	1250-752M	DECAL, LED Cable
10	2	1250-766	DECAL, Akkerman Guidance System
11	1	1250-765	DECAL, Open This Side
12	1	1250-752J	DECAL, Monitor Tilt Adjust
13	1	1250-752E	DECAL, Camera Power Indicator
14	1	1250-752D	DECAL, Power In
15	1	1250-752C	DECAL, LED Brightness

REMOTE FOCUS KIT GEN 3 DECALS **(SN FA42035F-86 & BEFORE)**

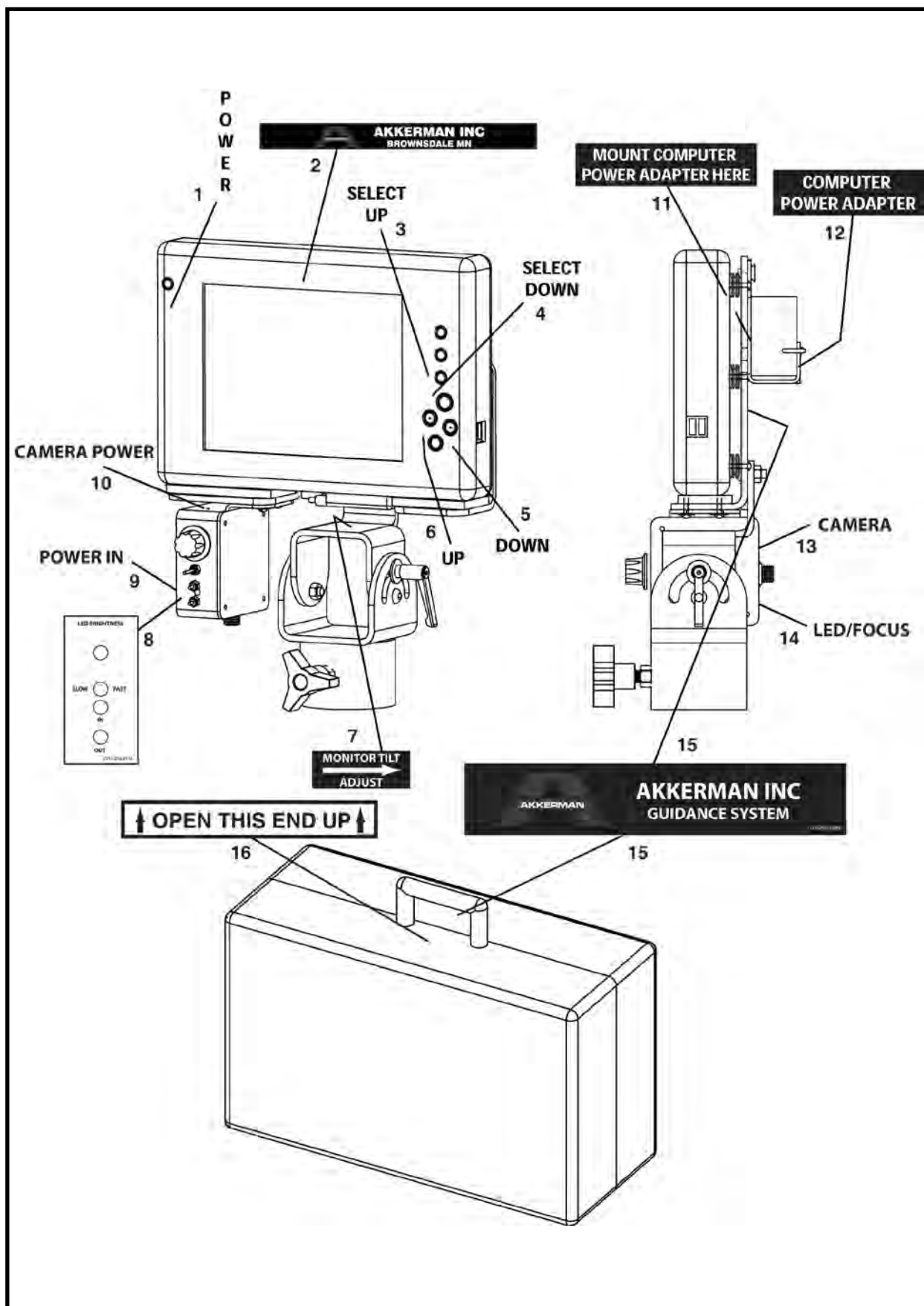


ITEM	QTY	PART NO.	DESCRIPTION
1	1	1250-933	DECAL, Remote Focus Kit
2	1	1250-752D	DECAL, Power In

NOTES

GUIDANCE SYSTEM GEN 3 DECALS

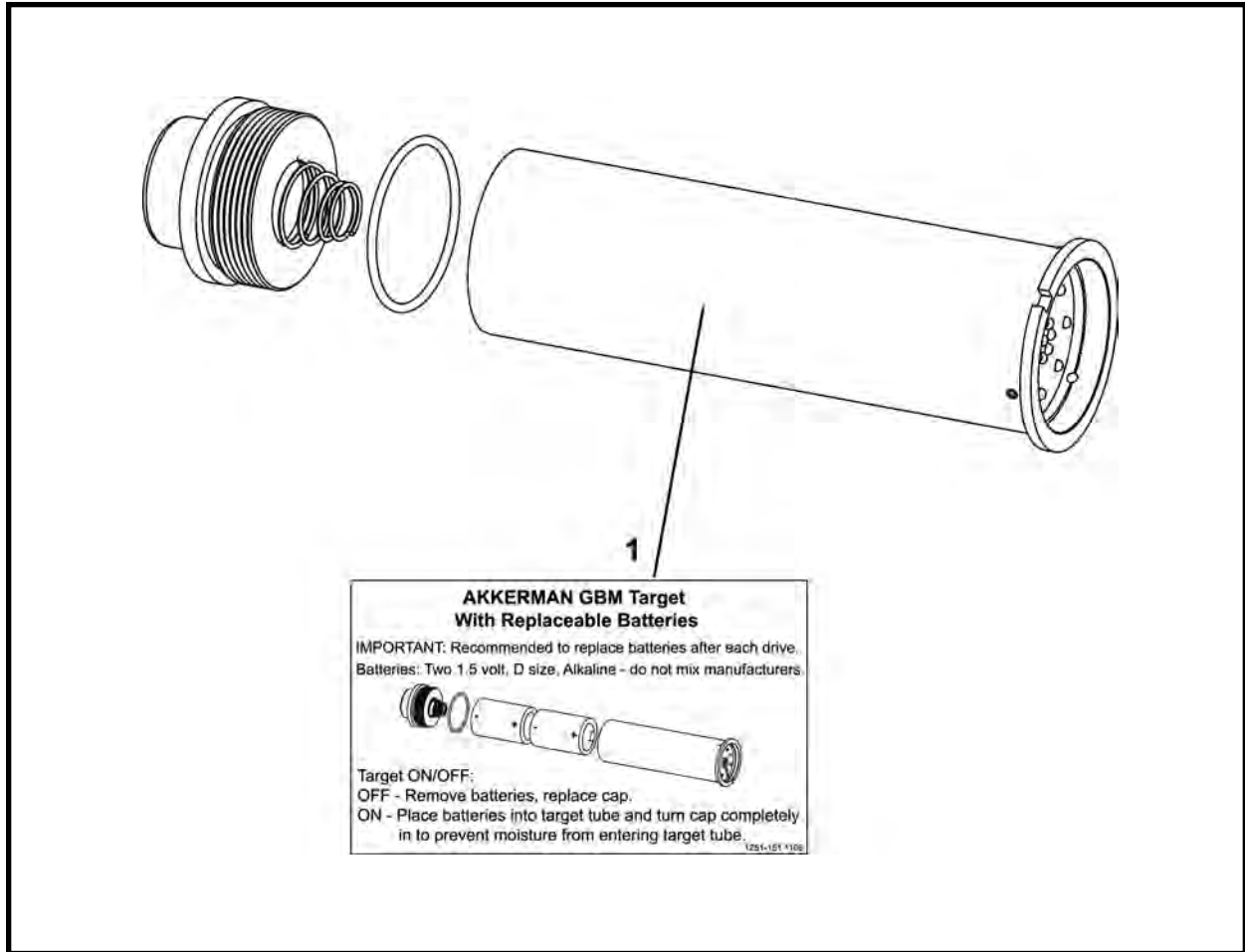
(SN FA42035F-87 & AFTER)



GUIDANCE SYSTEM GEN 3 DECALS
(SN FA42035F-87 & AFTER)

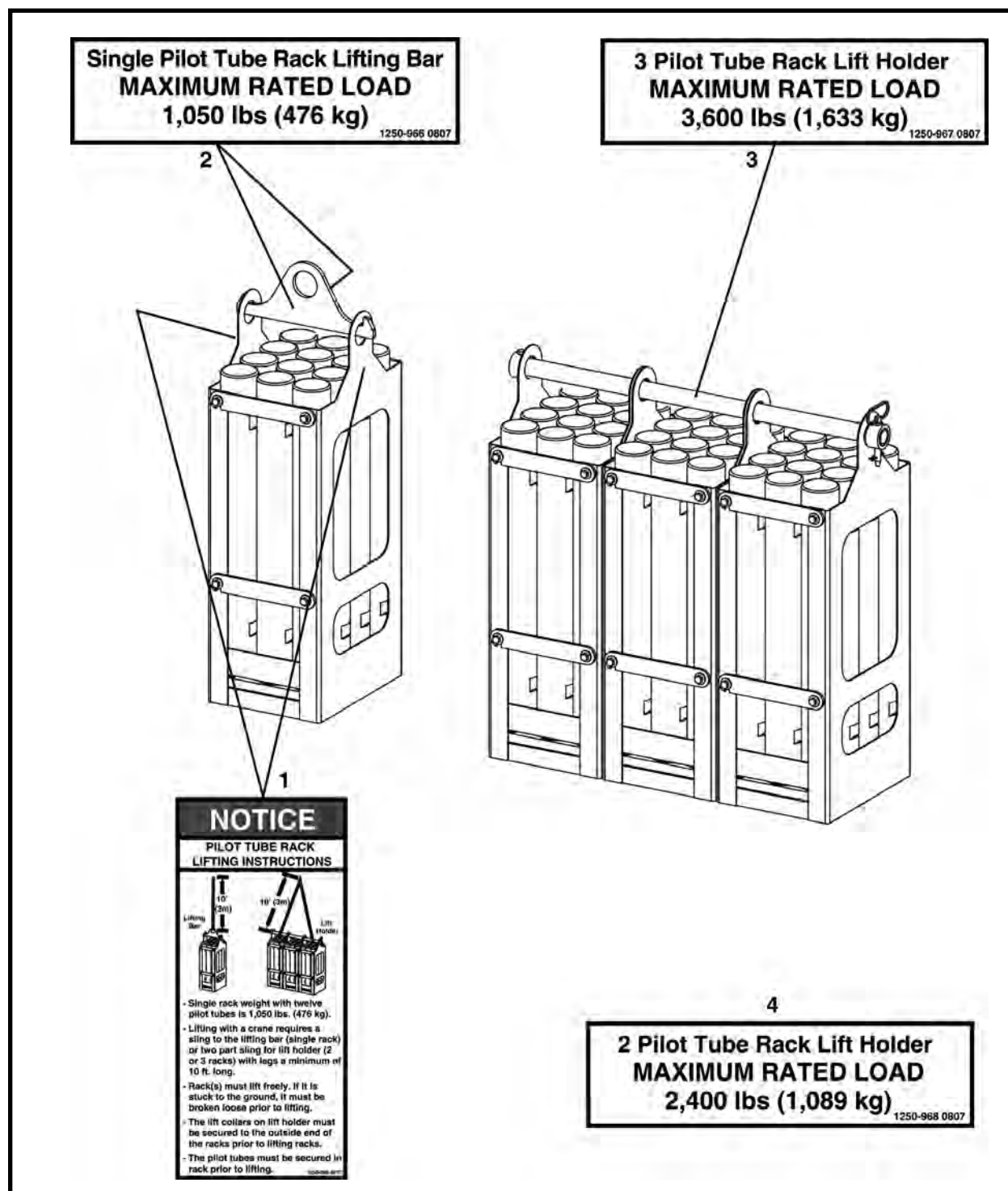
ITEM	QTY	PART NO.	DESCRIPTION
1	1	1250-752A	DECAL, Power
2	1	1250-752B1	DECAL, Guidance System Layout
3	1	1250-752F	DECAL, Select Up
4	1	1250-752G	DECAL, Select Down
5	1	1250-752H	DECAL, Down
6	1	1250-752I	DECAL, Up
7	1	1250-752J	DECAL, Monitor Tilt Adjust
8	1	1251-256	DECAL, LED Brightness & Remote Focus
9	1	1251-256A	DECAL, Power In
10	1	1251-256B	DECAL, Camera Power
11	1	1250-752K	DECAL, Mount Power Adapter Here
12	1	1250-752L	DECAL, Computer Power Adapter
13	1	1251-256C	DECAL, Camera
14	1	1251-256D	DECAL, LED/Focus
15	2	1250-766	DECAL, Akkerman Guidance System
16	1	1250-765	DECAL, Open This Side

GBM REPLACEABLE BATTERY TARGET DECAL
GUIDANCE SYSTEM TARGET A44853A



ITEM	QTY	PART NO.	DESCRIPTION
1	1	1251-151	DECAL, GBM Replaceable Battery Target

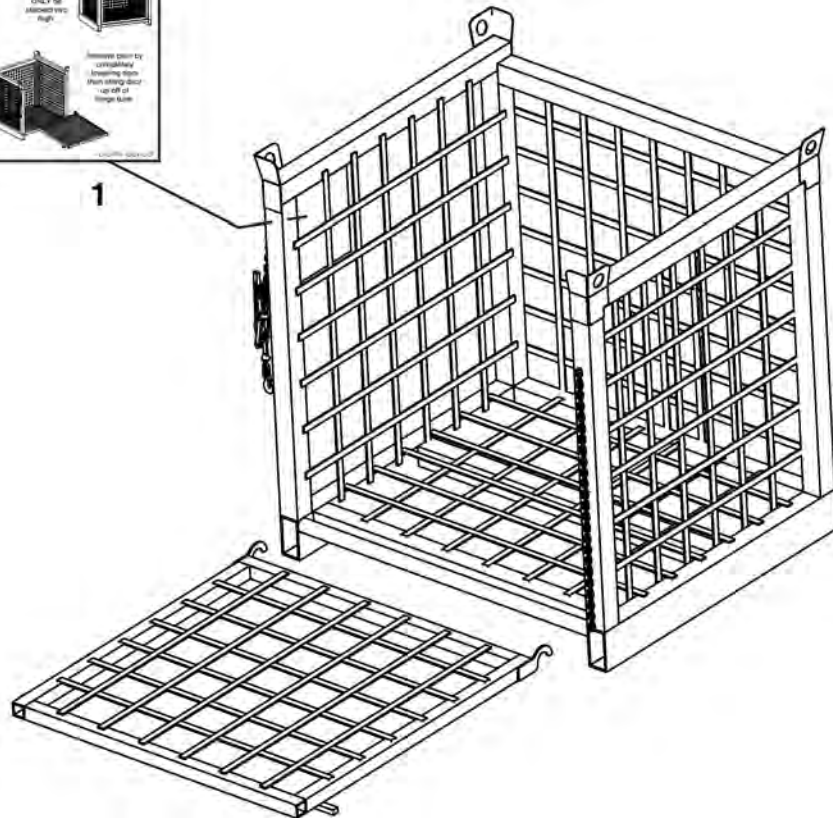
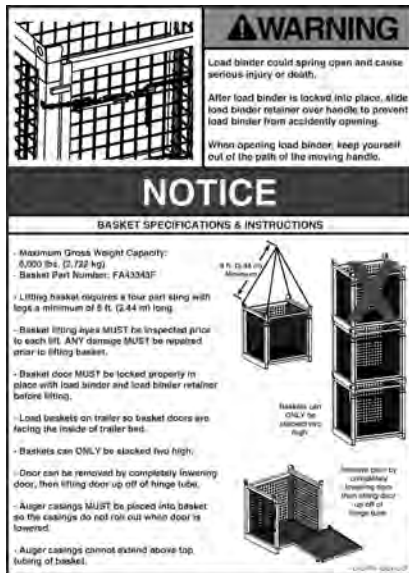
PILOT TUBE RACK DECALS **30" PILOT TUBES**



ITEM	QTY	PART NO.	DESCRIPTION
1	2*	1250-965	DECAL, Lifting Instructions
2	2	1250-966	DECAL, Single Rack Lift Bar Max Load
3	1	1250-967	DECAL, Three Rack Lift Holder Max Load
4	1	1250-968	DECAL, Two Rack Lift Holder Max Load

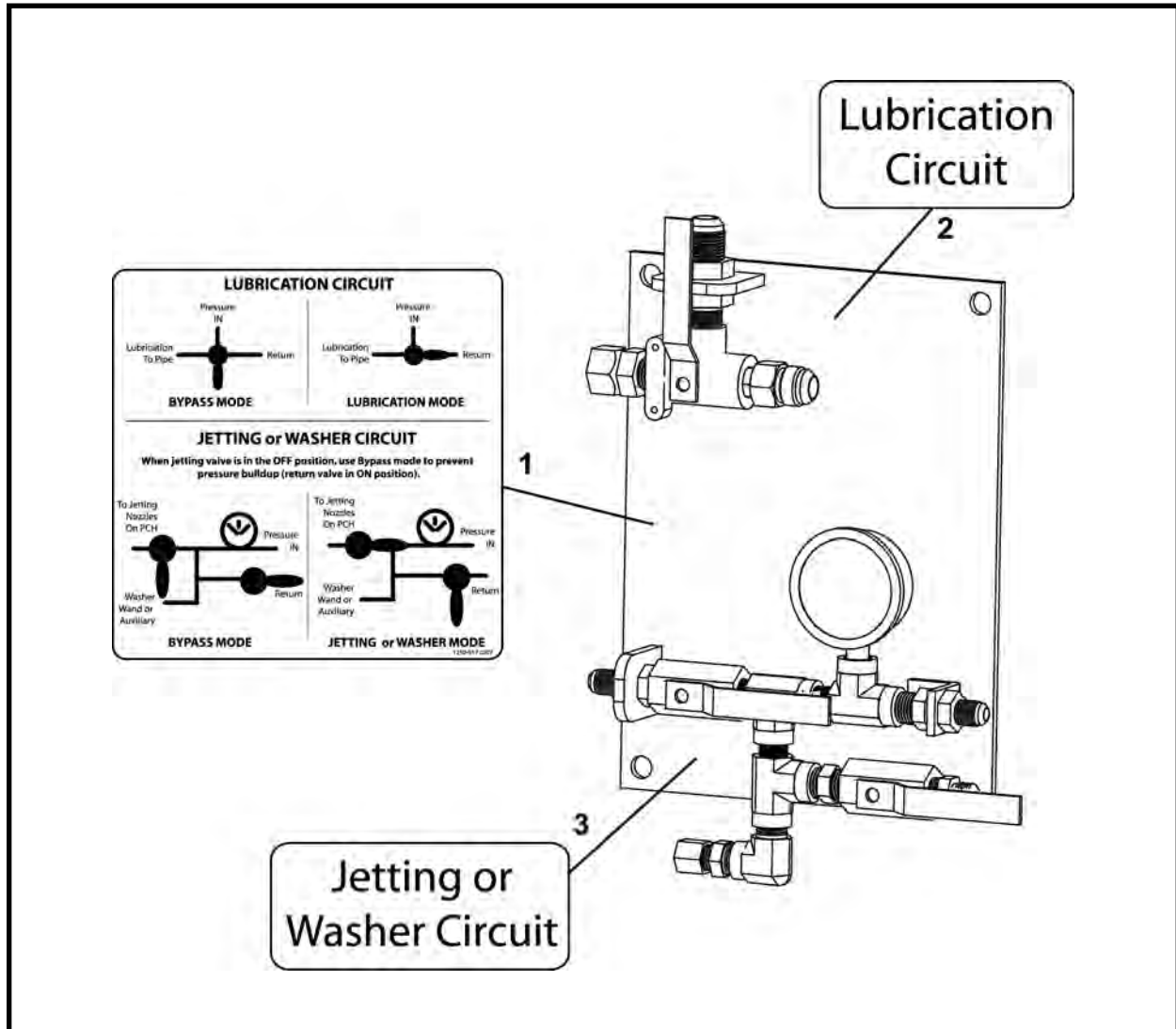
* Quantity Per Rack

WIRE BASKET DECAL 1 METER CASING



ITEM	QTY	PART NO.	DESCRIPTION
1	1	1250-709	DECAL, Basket Warning & Instructions

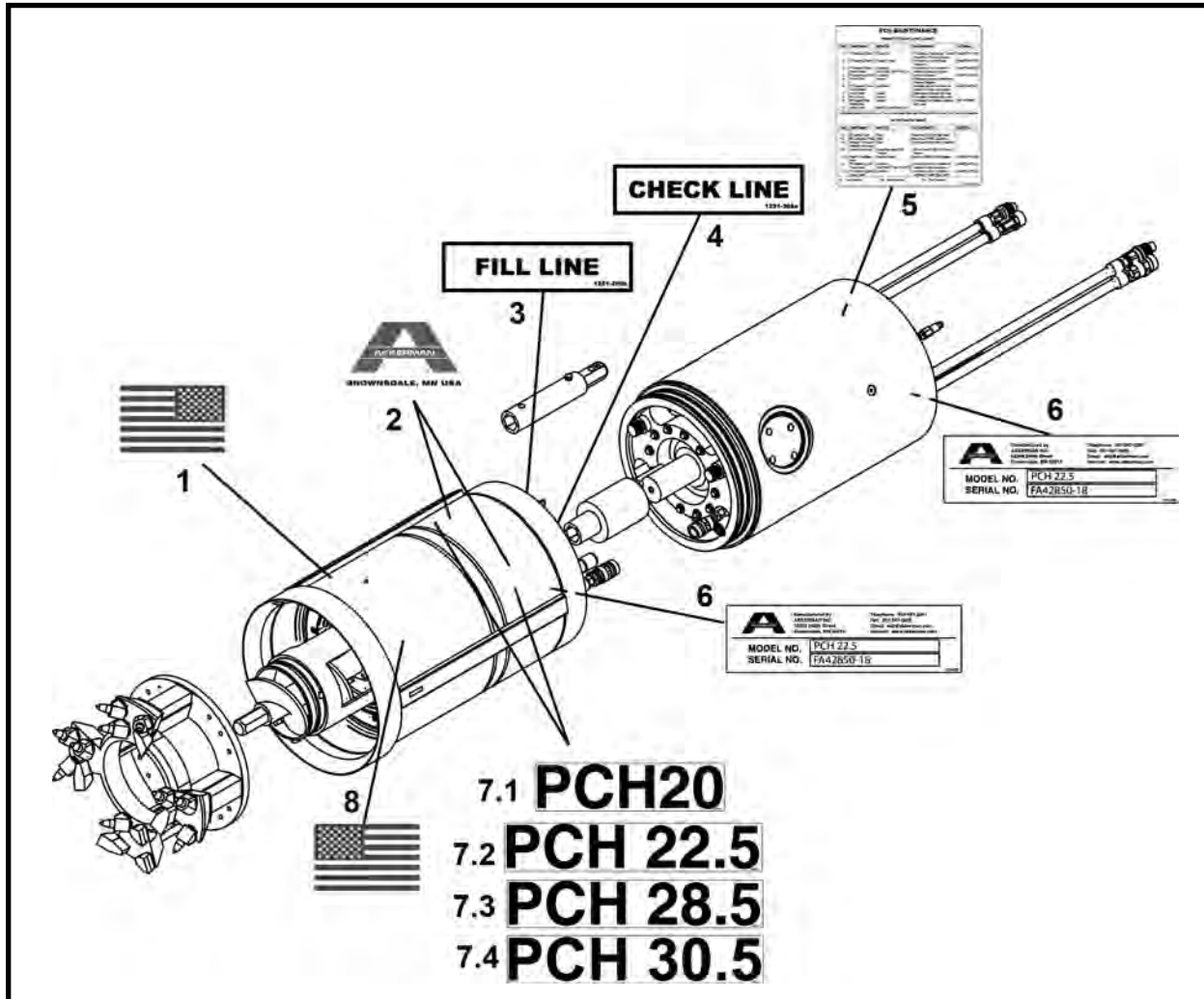
JETTING & LUBRICATION PUMP SHAFT CONTROL DECALS **2325D/2325E JETTING & LUBRICATION PUMP**



ITEM	QTY	PART NO.	DESCRIPTION
1	1	1250-917a	DECAL, Lubrication-Jetting-Washer Control
2	1	1250-917b	DECAL, Lubrication Circuit
3	1	1250-917c	DECAL, Jetting Or Washer Circuit

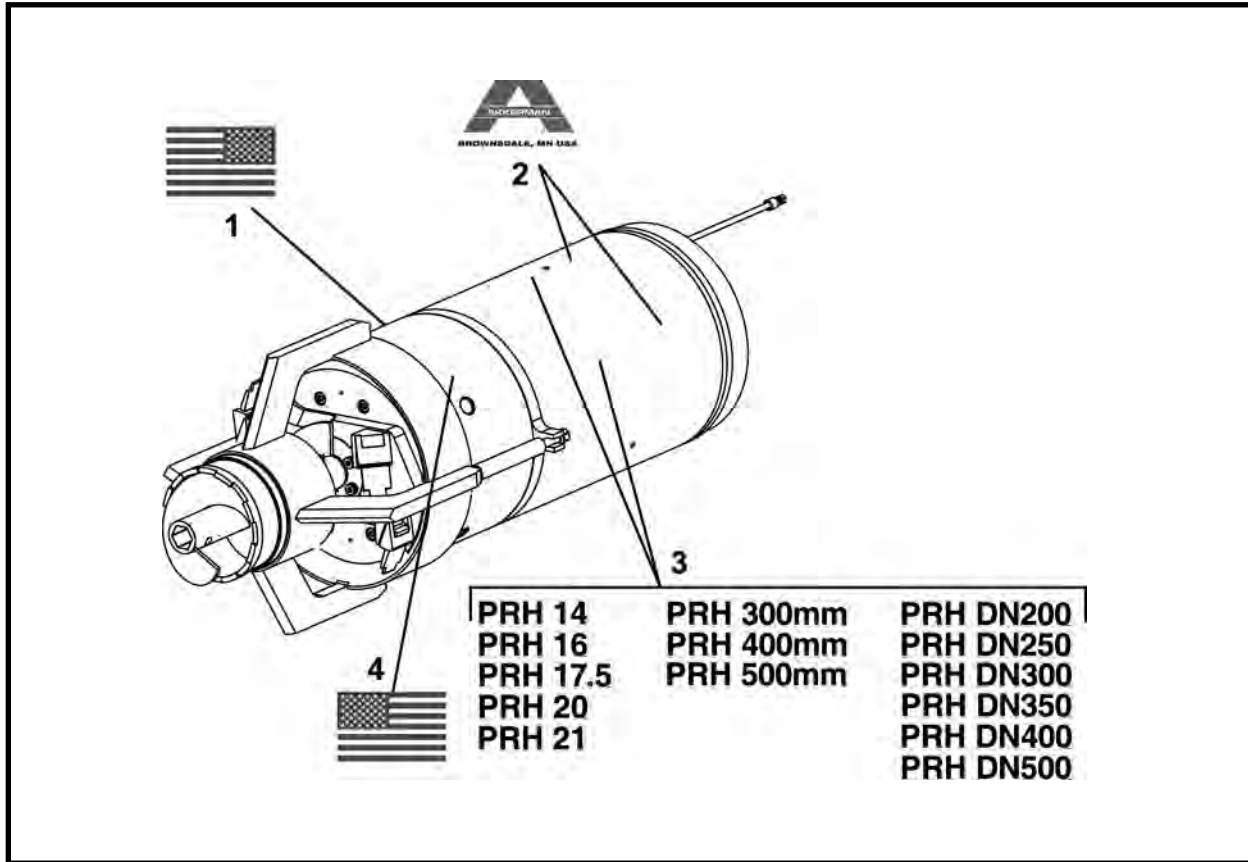
POWERED CUTTER HEAD DECALS

PCH 20 - PCH 22.5 - PCH 28.5 - PCH 30.5



ITEM	QTY	PART NO.	DESCRIPTION
1	1	1251-325	DECAL, USA Flag, Medium
2	2	1251-246	DECAL, Akkerman, Large
3	1	1251-308b	PLATE, PCH Fill Line
4	1	1251-308a	PLATE, PCH Check Line
5	1	1251-311	DECAL, PCH Maintenance Chart
6	2	-	DECAL, PCH SN Plate
7.1	2	1250-871b	DECAL, PCH20
7.2	2	1250-871a	DECAL, PCH 22.5
7.3	2	1250-871c	DECAL, PCH 28.5
7.4	2	1250-871d	DECAL, PCH 30.5
8	1	1250-559	DECAL, USA Flag, Medium

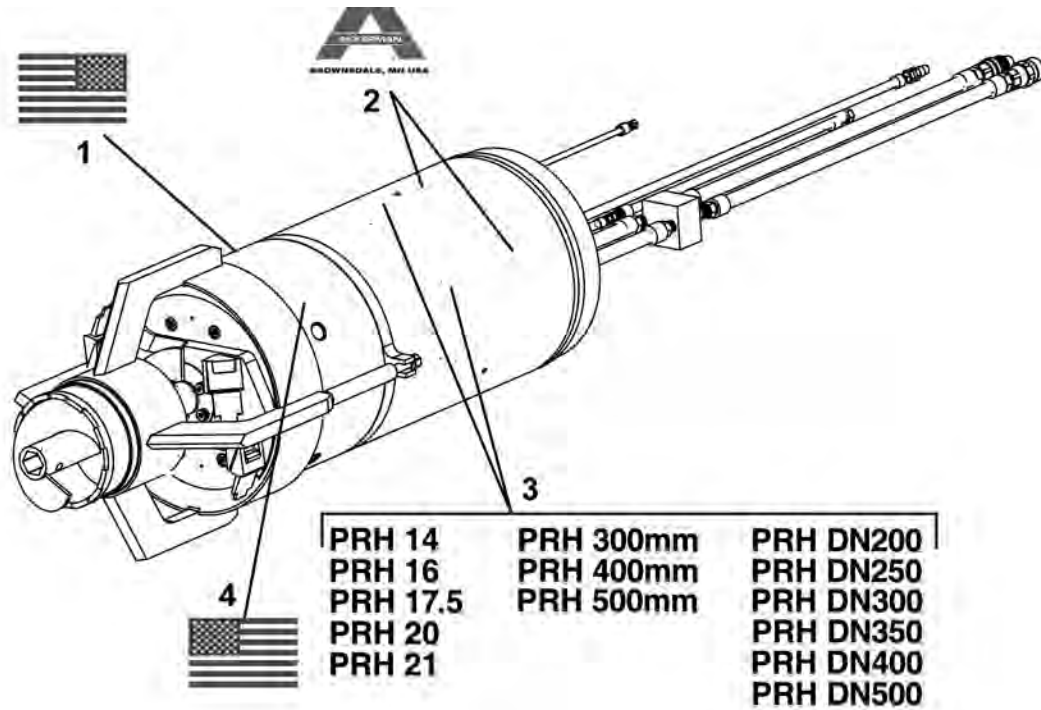
POWERED REAMING HEAD DECALS
PRH (SN FA45200F-01 THRU 05)



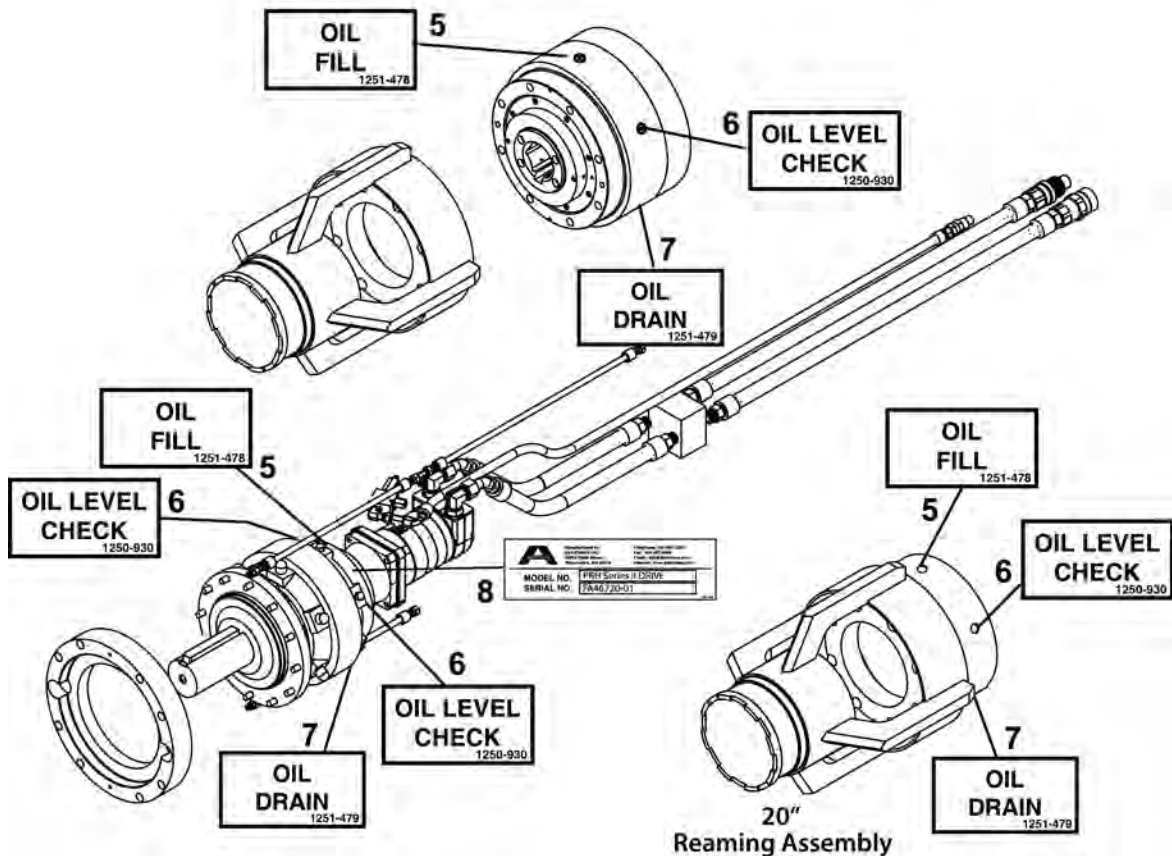
ITEM	QTY	PART NO.	DESCRIPTION
1	1	1251-324	DECAL, USA Flag, Small
2	2	1251-247	DECAL, Akkerman, Medium
3.1	2	1251-238a	DECAL, PRH 14
3.2	2	1251-238b	DECAL, PRH 16
3.3	2	1251-238d	DECAL, PRH 17.5
3.4	2	1251-238c	DECAL, PRH 20
3.5	2	1251-238e	DECAL, PRH 21
3.6	2	1251-238f	DECAL, PRH 300mm
3.7	2	1251-238g	DECAL, PRH 400mm
3.8	2	1251-238h	DECAL, PRH 500mm
3.9	2	1251-238i	DECAL, PRH DN200
3.10	2	1251-238j	DECAL, PRH DN250
3.11	2	1251-238k	DECAL, PRH DN300
3.12	2	1251-238l	DECAL, PRH DN350
3.13	2	1251-238m	DECAL, PRH DN400
3.14	2	1251-238n	DECAL, PRH DN500
4	1	1250-558	DECAL, USA Flag, Small

POWERED REAMING HEAD DECALS

PRH (SN FA45200F-06 & AFTER)



Drive Assembly



POWERED REAMING HEAD DECALS
PRH (SN FA45200F-06 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
1	1	1251-324	DECAL, USA Flag, Small
2	2	1251-247	DECAL, Akkerman, Medium
3.1	2	1251-238a	DECAL, PRH 14
3.2	2	1251-238b	DECAL, PRH 16
3.3	2	1251-238d	DECAL, PRH 17.5
3.4	2	1251-238c	DECAL, PRH 20
3.5	2	1251-238e	DECAL, PRH 21
3.6	2	1251-238f	DECAL, PRH 300mm
3.7	2	1251-238g	DECAL, PRH 400mm
3.8	2	1251-238h	DECAL, PRH 500mm
3.9	2	1251-238i	DECAL, PRH DN200
3.10	2	1251-238j	DECAL, PRH DN250
3.11	2	1251-238k	DECAL, PRH DN300
3.12	2	1251-238l	DECAL, PRH DN350
3.13	2	1251-238m	DECAL, PRH DN400
3.14	2	1251-238n	DECAL, PRH DN500
4	1	1250-558	DECAL, USA Flag, Small
5	3	1251-478	DECAL, Oil Fill
6	3	1250-930	DECAL, Oil Level Check
7	3	1251-479	DECAL, Oil Drain
8	1	-	DECAL, PRH Drive Assembly SN Plate

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Structurals

GBM Frame (continued)

Latching Frame

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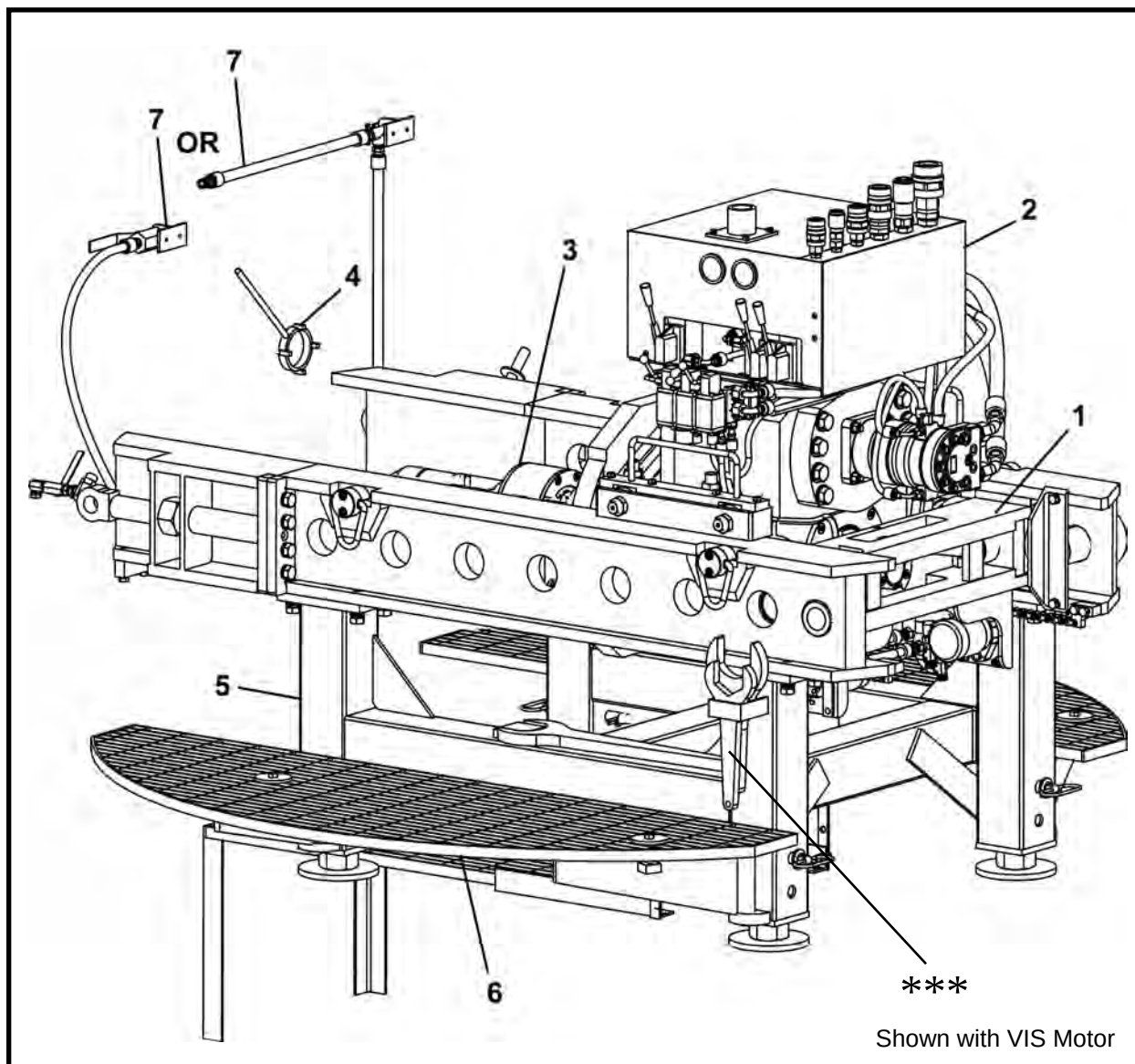
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LATCHING FRAME ASSEMBLY 308A, FA40032F
308A LATCHING FRAME WITHOUT PCH CONTROLS



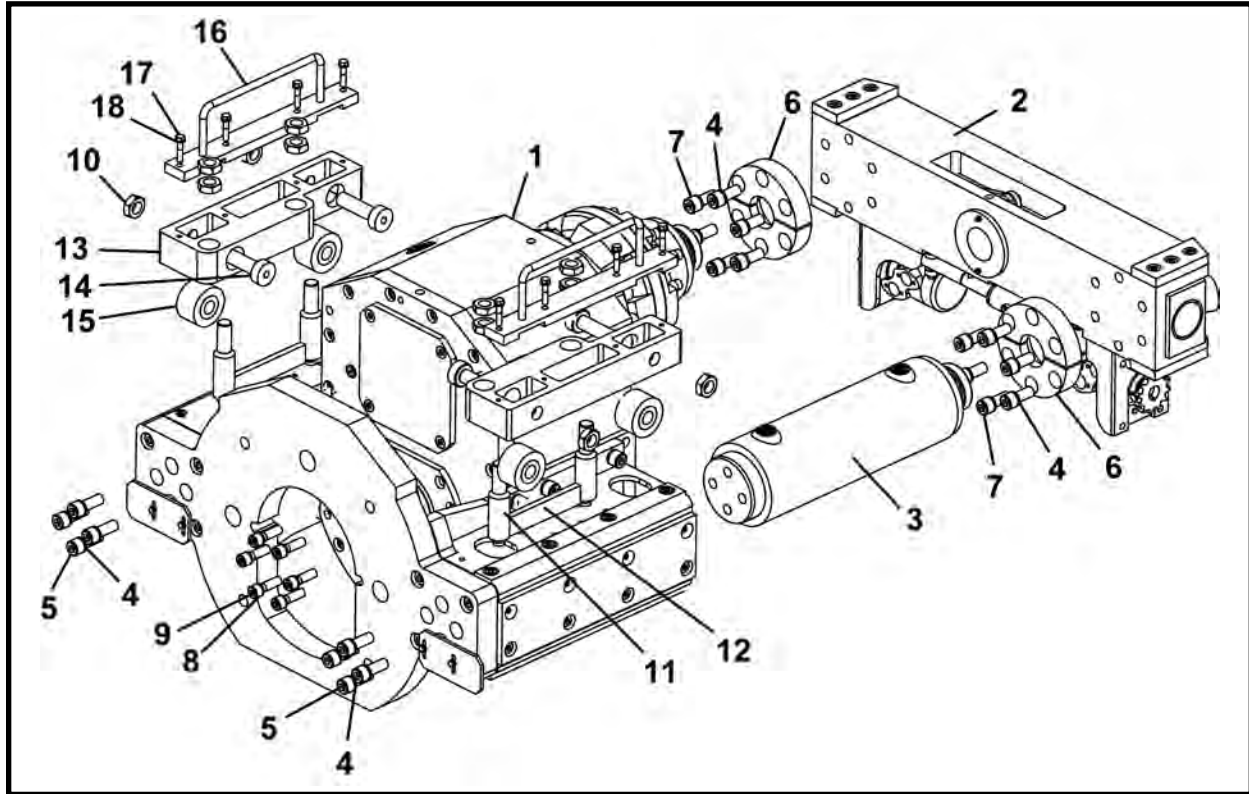
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40032F	LATCHING FRAME ASSEMBLY, 308A
1a*	1	A42520A	DRILLING DRIVE THRUST& LATCHING FRAME (SAI Motor)
1b*	1	A43327A	DRILLING DRIVE THRUST& LATCHING FRAME (VIS Motor)
2**	1	A40174A	HYDRAULICS, Latching
3*	1	FA40235F	ASSEMBLY, Drive Adapter & Swivel
4*	1	A40740A	WRENCH, Spindle Nut
5*	1	A40495A	ASSEMBLY, Latching Adjustable Base
6*	1	A42510A	ASSEMBLY, Operator Platform
7*	1	A43570A	ASSEMBLY, Fluid Control

* Refer to this section for parts information.

** Refer to section 6, Hydraulics for parts information.

*** Wrench set shown is not part of FA40032F, 308A Latching Frame Assembly

DRILLING DRIVE THRUST & LATCHING FRAME, A42520A
308A LATCHING FRAME WITH SAI MOTOR

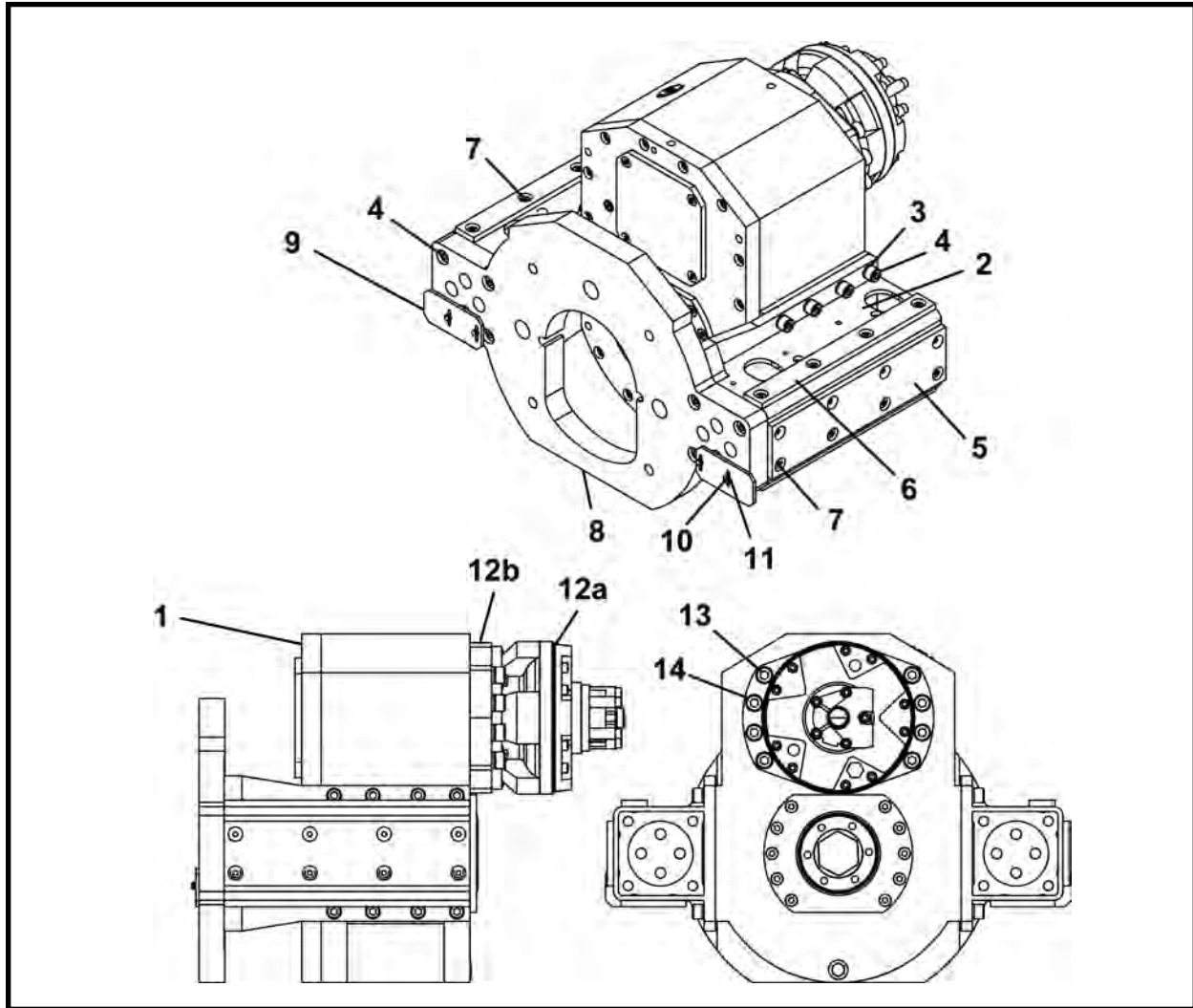


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42520A	DRILLING DRIVE THRUST & LATCHING FRAME
1*	1	A40166A	ASSEMBLY, Drilling Drive Thrust Frame
2*	1	A42424A	ASSEMBLY, Hydraulic Latching
3**	2	A40145A	ASSEMBLY, Cylinder
4	20	P0046-012	WASHER, Lock - Hi Collar 3/4
5	8	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
6	2	A40457P	RETAINER, Cylinder
7	12	P0031-12-007	SCREW, Socket Head Cap 3/4 UNC x 1.75
8	6	P0046-010	WASHER, Lock - Hi Collar 5/8
9	6	P0031-10-008	SCREW, Socket Head Cap 5/8 UNC x 2
10	12	P0008-16-000	NUT, Hex Jam 1-1/4
11	4	A40868P	PIN, Roller Bracket
12	2	A40869P	GUSSET, Roller Bracket
13	2	A40865P	BRACKET, Roller
14	4	P0065-164	PIN, Roller
15	4	P0065-165	ROLLER
16	2	A40154A	COVER, Roller Bracket
17	8	P0001-06-007	BOLT, Hex 3/8 UNC x 1.75
18	8	P0045-006	WASHER, Lock 3/8

* Refer to this section for parts information.

** Refer to section 10, Cylinders for parts information.

DRILLING DRIVE THRUST FRAME ASSEMBLY, A40166A
308A LATCHING FRAME WITH SAI MOTOR



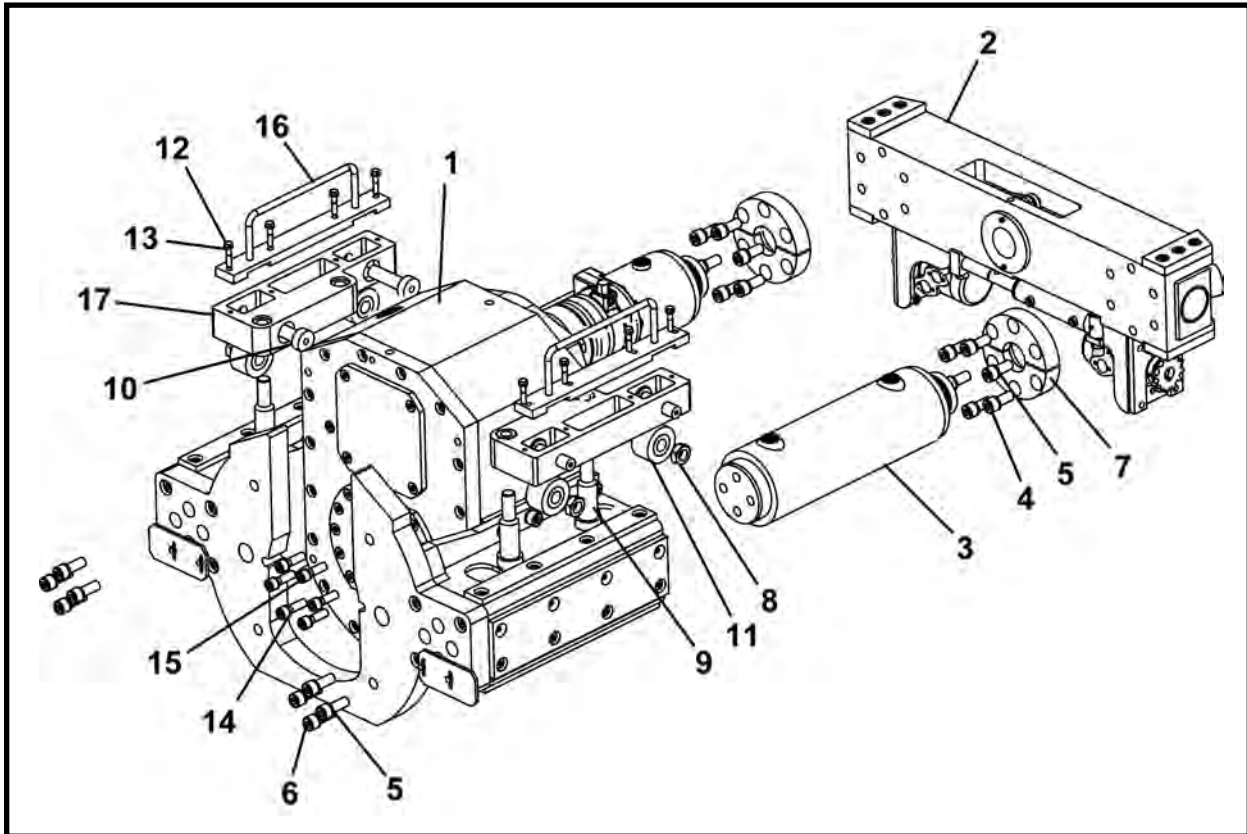
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40166A	DRILLING DRIVE THRUST FRAME ASSEMBLY
1*	1	A40103A	ASSEMBLY, Drilling Drive
2	2	A40106A	CYLINDER THRUST GUIDE
3	24	P0046-012	WASHER, Lock Hi-Collar 3/4
4	24	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
5	4	A40417P	WEAR PAD, Side - Bottom
6	2	A40418P	WEAR PAD, Top
7	40	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 UNC x .75
8.1**	1	A40416P	PLATE, Thrust
8.2	1	A43164P	PLATE, Thrust
9	2	A40419P	SCRAPPER
10	4	P0001-04-005	BOLT, 1/4-10 UNC X 1.25
11	4	P0045-004	WASHER, Lock 1/4
12***	1	P0304-160	MOTOR, Drive with Planetary (SAI) (Includes items 12a-12e)
12a	1	P0304-160C	MOTOR, Hydraulic
12b	1	P0304-160F	ASSEMBLY, Planetary
12c	1	P0304-160A	SEAL, Oil (not shown)
12d	1	P0304-160H	RING, Snap (not shown)
12e	1	P0304-160G	ORING, Gearbox To Motor (not shown)
13	8	P0046-014	WASHER, Lock Hi-Collar 7/8
14	8	P0031-14-012	SCREW, Socket Head Cap 7/8 UNC x 3

* Refer to this section for parts information.

** Item 8.1, A40416P Thrust Plate is replaced with item 8.2 A43164P Thrust Plate.

*** Refer to section 8, Motors for parts information.

DRILLING DRIVE THRUST & LATCHING FRAME, A43327A
308A LATCHING FRAME WITH VIS MOTOR

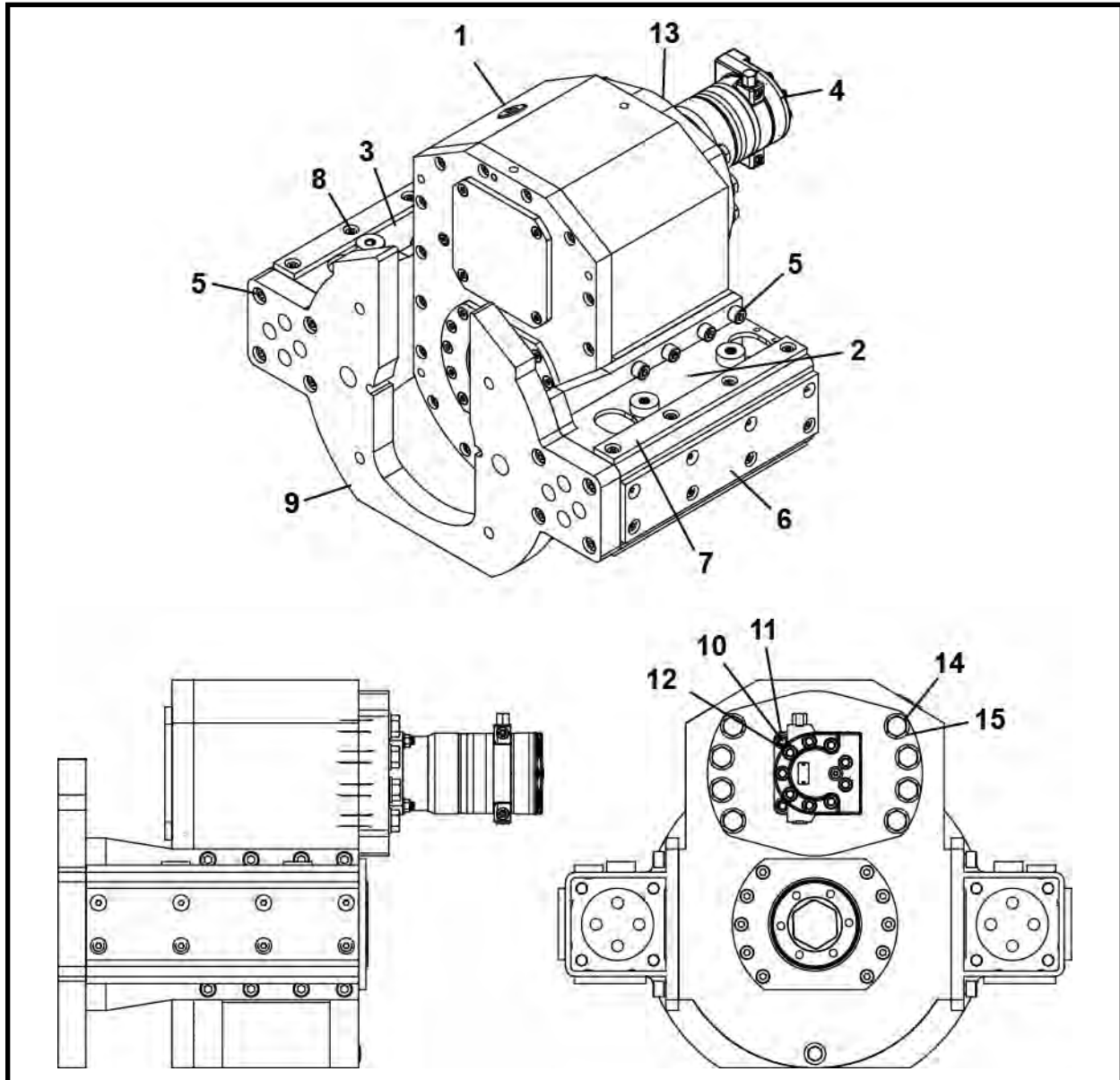


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43327A	DRILLING DRIVE THRUST & LATCHING FRAME
1*	1	A43326A	ASSEMBLY, Drilling Drive Thrust Frame
2*	1	A42424A	ASSEMBLY, Hydraulic Latching
3**	2	A40145A	ASSEMBLY, Cylinder
4	12	P0031-12-007	SCREW, Socket Head Cap 3/4 UNC x 1.75
5	20	P0046-012	WASHER, Lock - Hi Collar 3/4
6	8	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
7	2	A40457P	RETAINER, Cylinder
8	12	P0008-16-000	NUT, Hex Jam 1-1/4
9	4	A43322P	PIN, Threaded Guide
10	4	P0065-164	PIN, Roller
11	4	P0065-165	ROLLER
12	8	P0001-06-007	BOLT, 3/8-16 UNC x 1.75
13	8	P0045-006	WASHER, Lock 3/8
14	6	P0046-010	WASHER, Lock - Hi Collar 5/8
15	6	P0031-10-008	SCREW, Socket Head Cap 5/8 UNC x 2
16	2	A40154A	COVER, Roller Bracket
17	2	A40865P	BRACKET, Roller

* Refer to this section for parts information.

** Refer to section 10, Cylinders for parts information.

DRILLING DRIVE THRUST FRAME ASSEMBLY, A43326A
308A LATCHING FRAME WITH VIS MOTOR

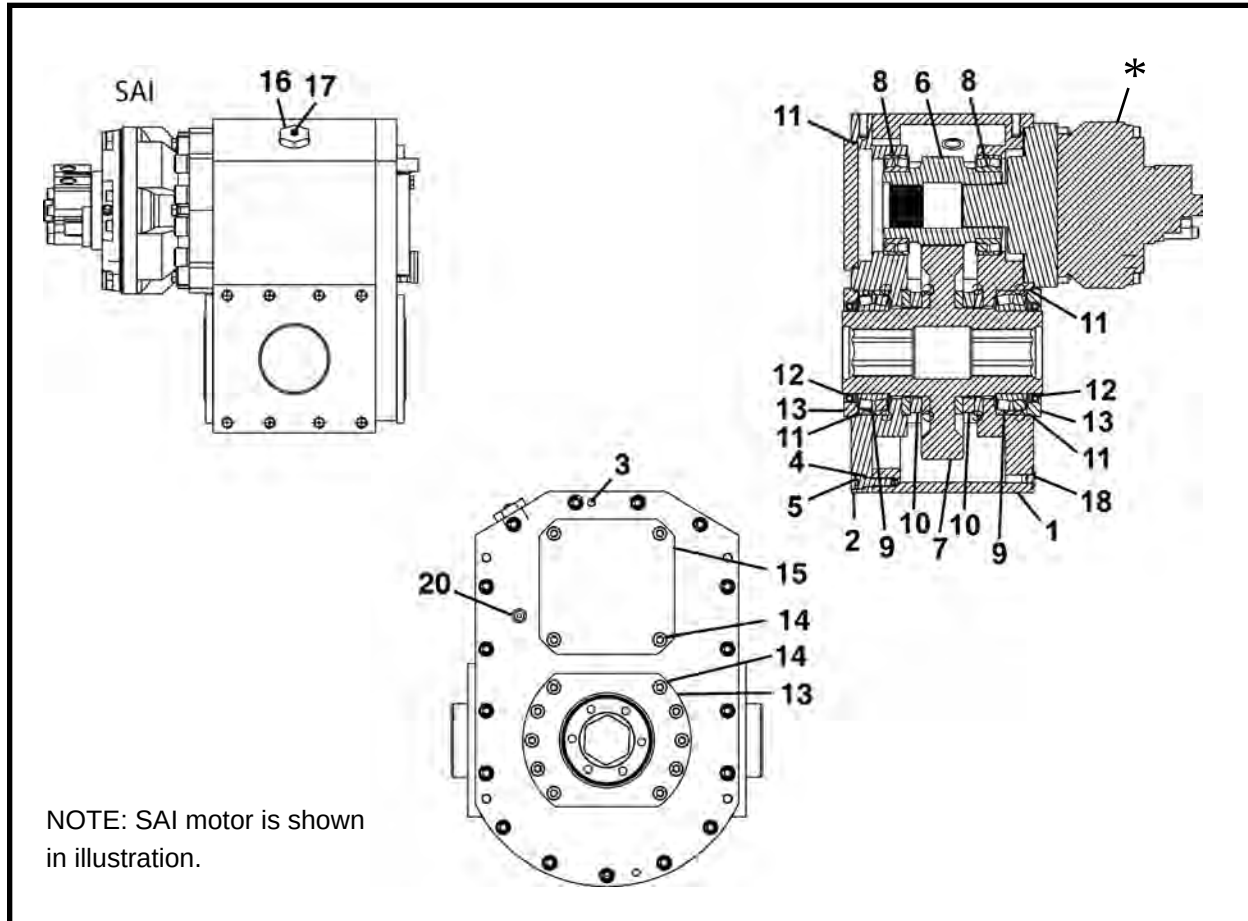


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43326A	DRILLING DRIVE THRUST FRAME ASSEMBLY
1*	1	A40103A	ASSEMBLY, Drilling Drive
2	1	A43323A	CYLINDER THRUST GUIDE - Left
3	1	A43324A	CYLINDER THRUST GUIDE - Right
4**	1	P0304-169	MOTOR, VIS
5	24	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
6	4	A40417P	WEAR PAD, Side - Bottom
7	2	A40418P	WEAR PAD, Top
8	40	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 UNC x .75
9	1	A43164P	PLATE, Thrust
10	4	P0025-005	STUD
11	4	P0040-008	WASHER, Hardened Flat 1/2
12	4	P0003-08-000	NUT, 1/2
13*	1	A43050A	ASSEMBLY, Planetary Gear Box
14	8	P0001-14-014	BOLT, Hex 7/8 UNC x 3.5
15	8	P0040-014	WASHER, Hardened Flat 7/8

* Refer to this section for parts information.

** Refer to section 8, Motors for parts information.

DRILLING DRIVE ASSEMBLY, A40103A
308A LATCHING FRAME

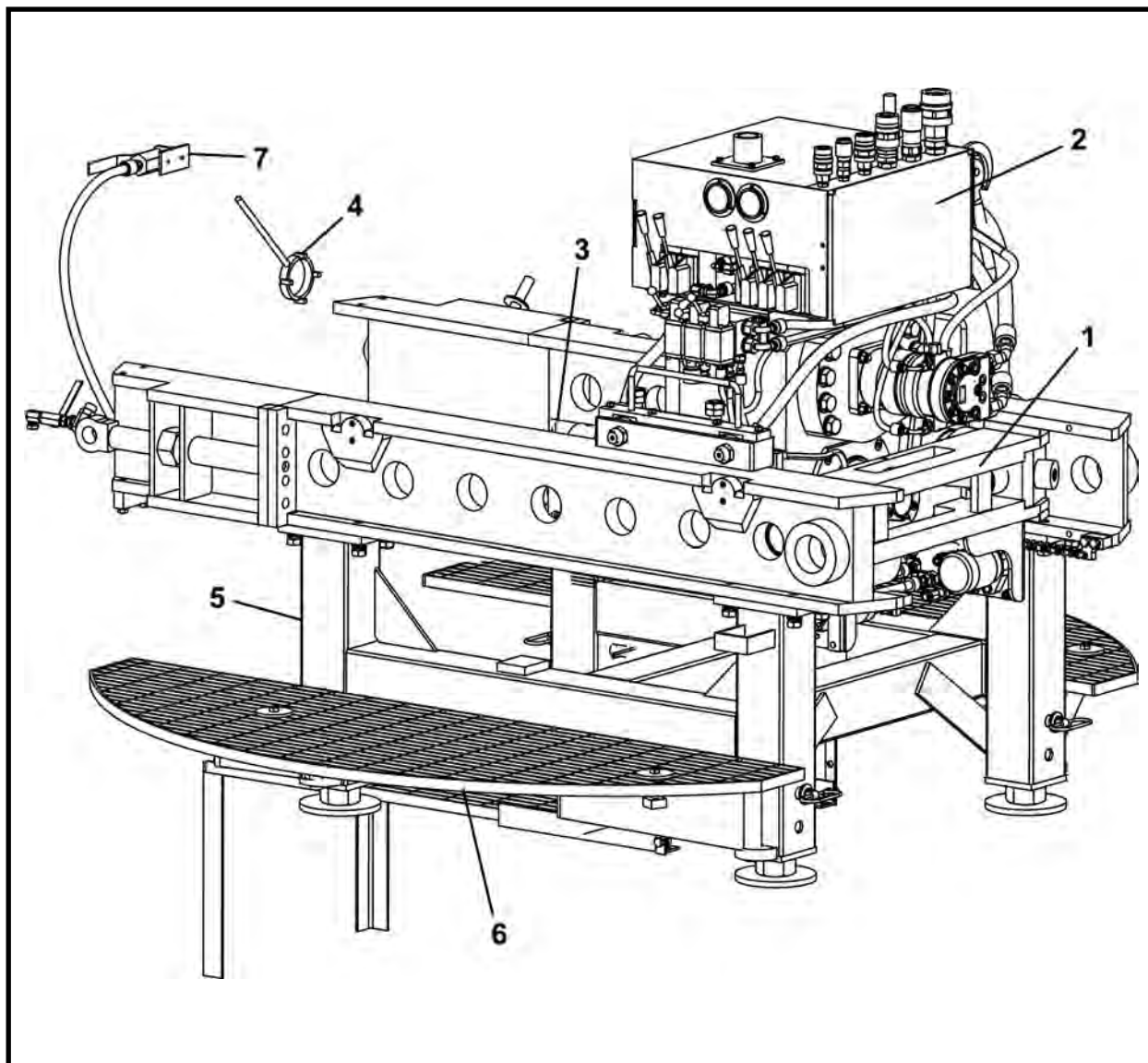


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40103A	DRILLING DRIVE ASSEMBLY
1	1	A40104A	CASE, Gear
2	1	A40105A	COVER, Front Case Gear
3	2	P0037-068	PIN, Dowel
4	17	P0046-010	WASHER, Lock Hi-Collar 5/8
5	17	P0031-10-008	SCREW, Socket Head Cap 5/8-11 UNC x 2
6	1	A40400P	GEAR, Pinion
7	1	A40401P	GEAR, Drive
8	2	P0065-161	BEARING, Spherical Roller
9	2	P0065-162	BEARING, Spherical Roller
10	2	P0065-160	BEARING, Cylindrical Roller
11	3	P0085-269	ORING
12	2	P0080-027	SEAL, Lip
13	2	A40414P	RETAINER, Seal
14	24	P0030-08-005	SCREW, Flat Head Socket Head Cap 1/2-13 X 1.25
15	1	A40415P	COVER, Inspection
16	1	A42369P	PLUG, Filler 1-5/8-12 Hollow Hex Oring
17	1	P0063-012	BREATHER
18	1	P0300-163	PLUG, Magnetic Drain
19	7 gal	P0126-014	GEAR LUBE, 630 Mobil Synthetic
20	1	P0300-176	PLUG, 06MB-HHP

* Motor; reference

NOTE: When replacing parts, tighten bolts to allowed load in ft-lbs torque; (1/2"-13 UNC,- 95 ft-lbs.), (5/8"-11 UNC, 190 ft-lbs), (7/8"-9 UNC, 460 ft-lbs).

LATCHING FRAME ASSEMBLY 308A, FA40032F
308A LATCHING FRAME WITH PCH CONTROLS

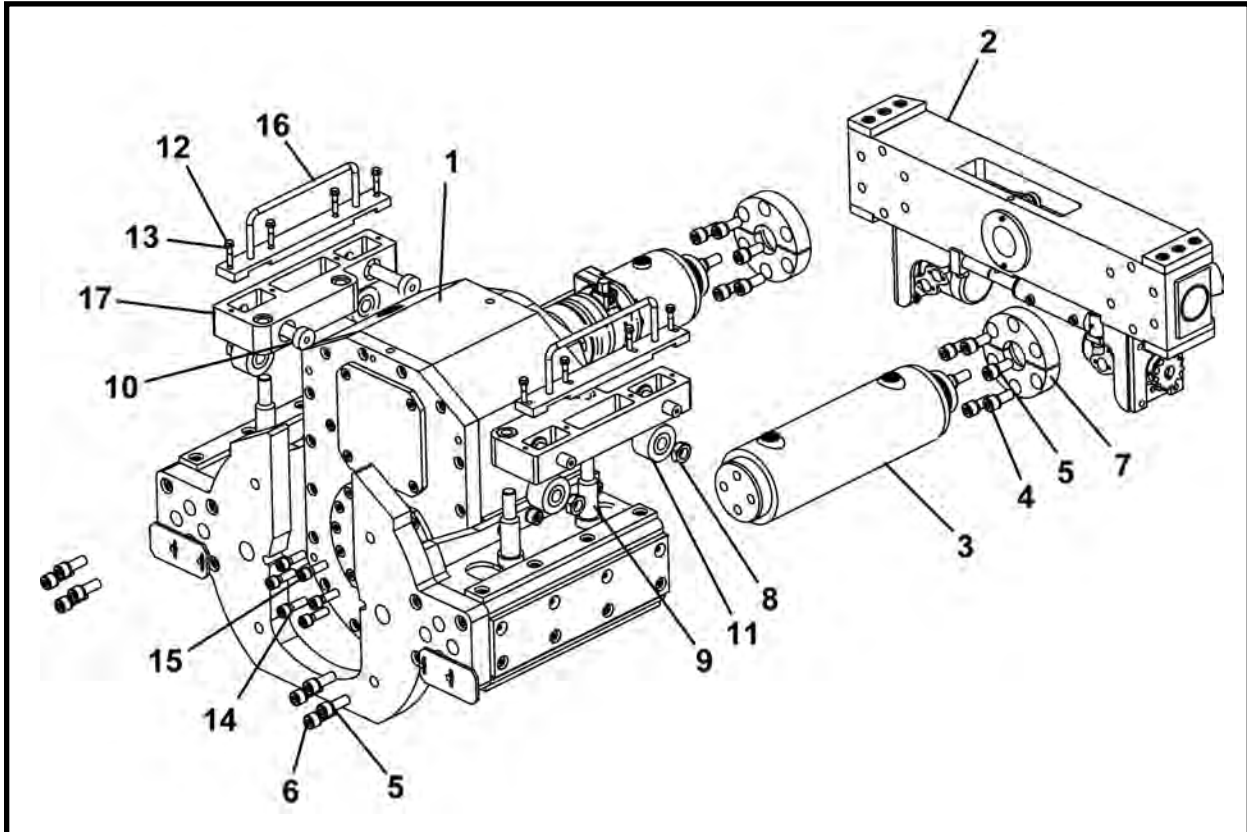


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40032F	LATCHING FRAME ASSEMBLY, 308A
1*	1	A43327A	DRILLING DRIVE THRUST & LATCHING FRAME
2**	1	A43574A	HYDRAULICS, Latching
3*	1	FA40235F	ASSEMBLY, Drive Adapter & Swivel
4*	1	A40740A	WRENCH, Spindle Nut
5*	1	A40495A	ASSEMBLY, Latching Adjustable Base
6*	1	A42510A	ASSEMBLY, Operator Platform
7*	1	A43570A	ASSEMBLY, Fluid Control

* Refer to this section for parts information.

** Refer to section 6, Hydraulics for parts information.

DRILLING DRIVE THRUST & LATCHING FRAME, A43327A
308A LATCHING FRAME WITH VIS MOTOR

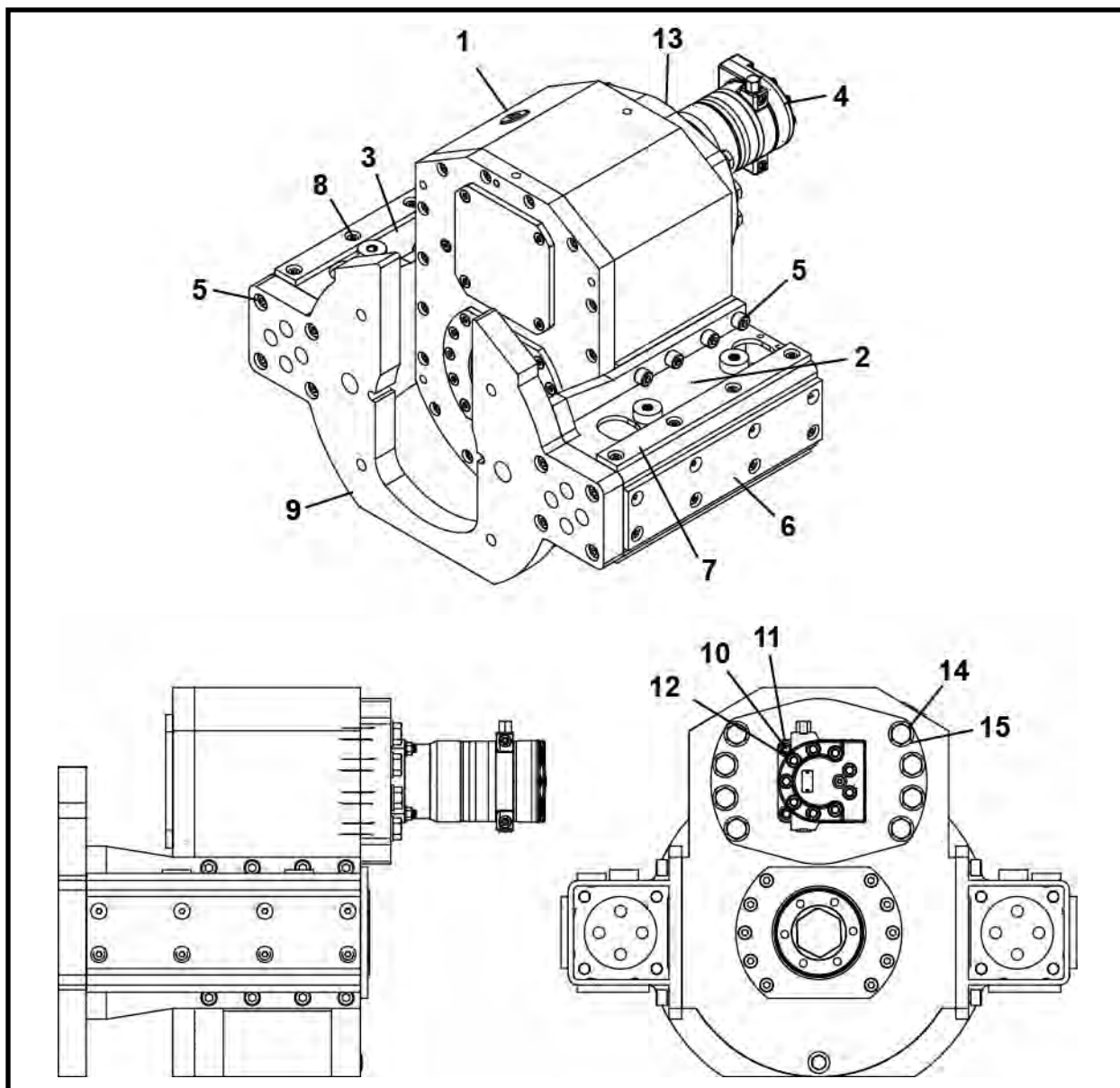


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43327A	DRILLING DRIVE THRUST & LATCHING FRAME
1*	1	A43326A	ASSEMBLY, Drilling Drive Thrust Frame
2*	1	A42424A	ASSEMBLY, Hydraulic Latching
3**	2	A40145A	ASSEMBLY, Cylinder
4	12	P0031-12-007	SCREW, Socket Head Cap 3/4 UNC x 1.75
5	20	P0046-012	WASHER, Lock - Hi Collar 3/4
6	8	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
7	2	A40457P	RETAINER, Cylinder
8	12	P0008-16-000	NUT, Hex Jam 1-1/4
9	4	A43322P	PIN, Threaded Guide
10	4	P0065-164	PIN, Roller
11	4	P0065-165	ROLLER
12	8	P0001-06-007	BOLT, Hex 3/8-16 UNC x 1.75
13	8	P0045-006	WASHER, Lock 3/8
14	6	P0046-010	WASHER, Lock - Hi Collar 5/8
15	6	P0031-10-008	SCREW, Socket Head Cap 5/8 UNC x 2
16	2	A40154A	COVER, Roller Bracket
17	2	A40865P	BRACKET, Roller

* Refer to this section for parts information.

** Refer to section 10, Cylinders for parts information.

DRILLING DRIVE THRUST FRAME ASSEMBLY, A43326A
308A LATCHING FRAME WITH VIS MOTOR

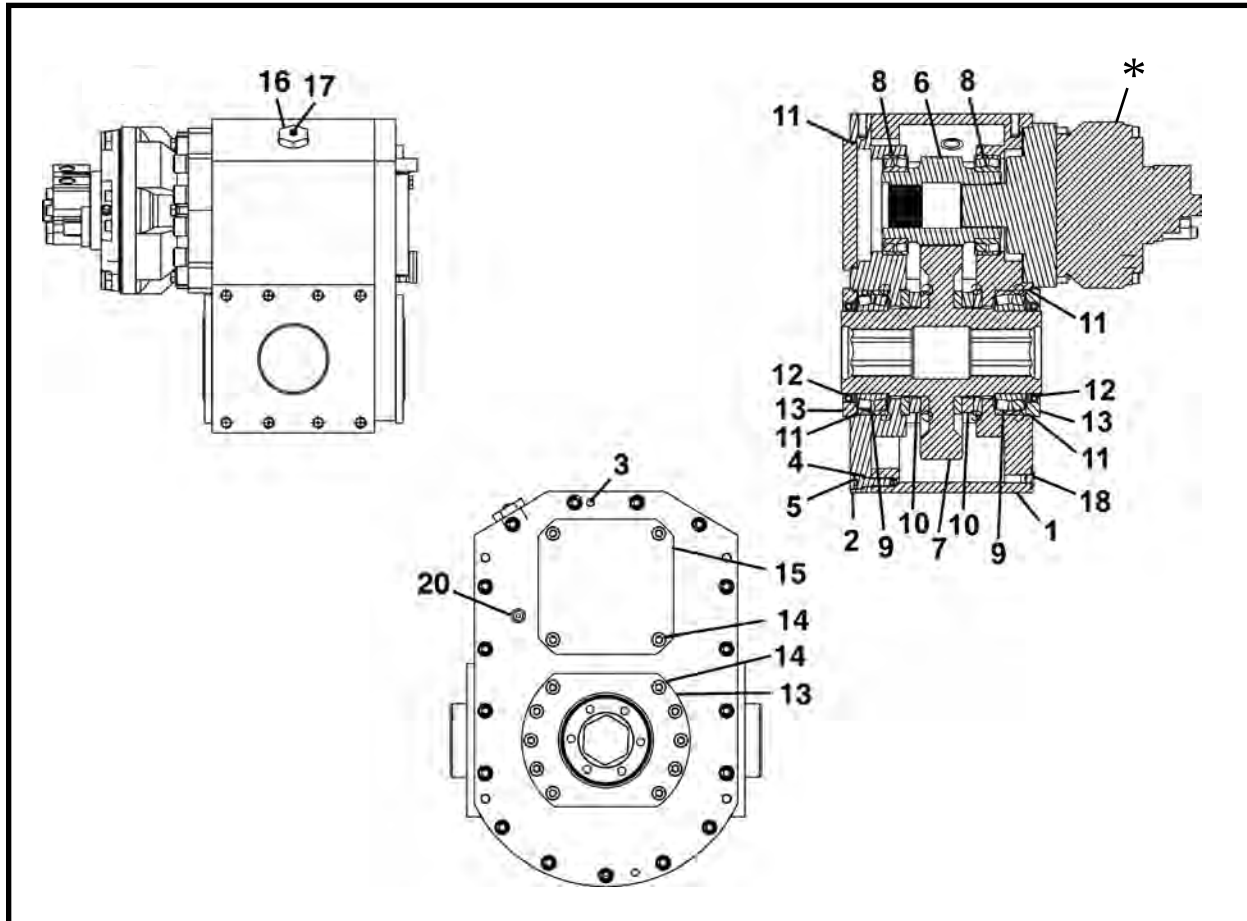


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43326A	DRILLING DRIVE THRUST FRAME ASSEMBLY
1*	1	A40103A	ASSEMBLY, Drilling Drive
2	1	A43323A	CYLINDER THRUST GUIDE - Left
3	1	A43324A	CYLINDER THRUST GUIDE - Right
4**	1	P0304-169	MOTOR, VIS
5	24	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
6	4	A40417P	WEAR PAD, Side - Bottom
7	2	A40418P	WEAR PAD, Top
8	40	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 UNC x .75
9	1	A43164P	PLATE, Thrust
10	4	P0025-005	STUD
11	4	P0040-008	WASHER, Hardened Flat 1/2
12	4	P0003-08-000	NUT, 1/2
13*	1	A43050A	ASSEMBLY, Planetary Gear Box
14	8	P0001-14-014	BOLT, Hex 7/8 UNC x 3.5
15	8	P0040-014	WASHER, Hardened Flat 7/8

* Refer to this section for parts information.

** Refer to section 8, Motors for parts information.

DRILLING DRIVE ASSEMBLY, A40103A
308A LATCHING FRAME WITH VIS MOTOR

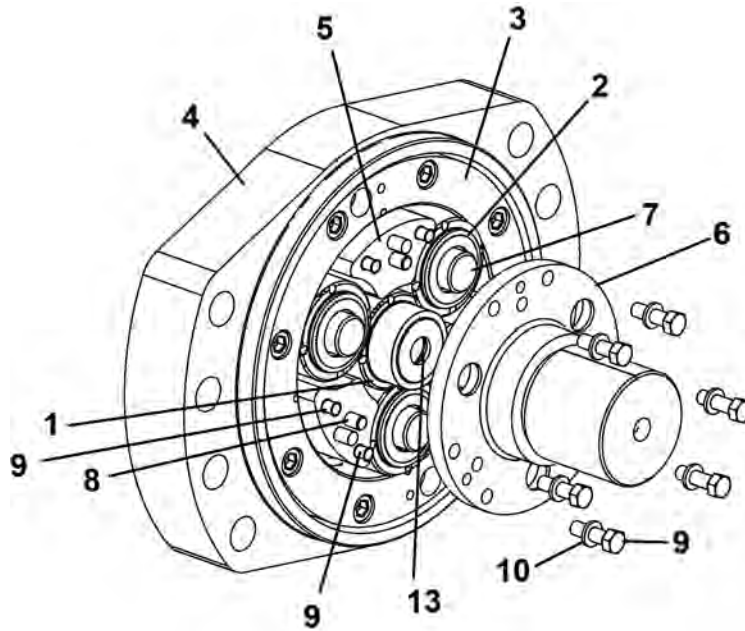


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40103A	DRILLING DRIVE ASSEMBLY
1	1	A40104A	CASE, Gear
2	1	A40105A	COVER, Front Case Gear
3	2	P0037-068	PIN, Dowel
4	17	P0046-010	WASHER, Lock Hi-Collar 5/8
5	17	P0031-10-008	SCREW, Socket Head Cap 5/8 UNC x 2
6	1	A40400P	GEAR, Pinion
7	1	A40401P	GEAR, Drive
8	2	P0065-161	BEARING, Spherical Roller
9	2	P0065-162	BEARING, Spherical Roller
10	2	P0065-160	BEARING, Cylindrical Roller
11	3	P0085-269	ORING
12	2	P0080-027	SEAL, Lip
13	2	A40414P	RETAINER, Seal
14	24	P0030-08-005	SCREW, Flat Head Socket Head Cap 1/2 UNC X 1.25
15	1	A40415P	COVER, Inspection
16	1	A42369P	PLUG, Filler 1-5/8-12 Hollow Hex Oring
17	1	P0063-012	BREATHER
18	1	P0300-163	PLUG, Magnetic Drain
19	7 gal	P0126-014	GEAR LUBE, 630 Mobil Synthetic
20	1	P0300-176	PLUG, 9/16-18 Oring Hollow Hex

* Motor; reference

Note: When replacing parts, tighten bolts to allowed load in ft-lbs torque; (1/2"-13 UNC,- 95 ft-lbs.), (5/8"-11 UNC, 190 ft-lbs), (7/8"-9 UNC, 460 ft-lbs).

PLANETARY GEAR BOX ASSEMBLY, A43050A
308A LATCHING FRAME WITH VIS MOTOR

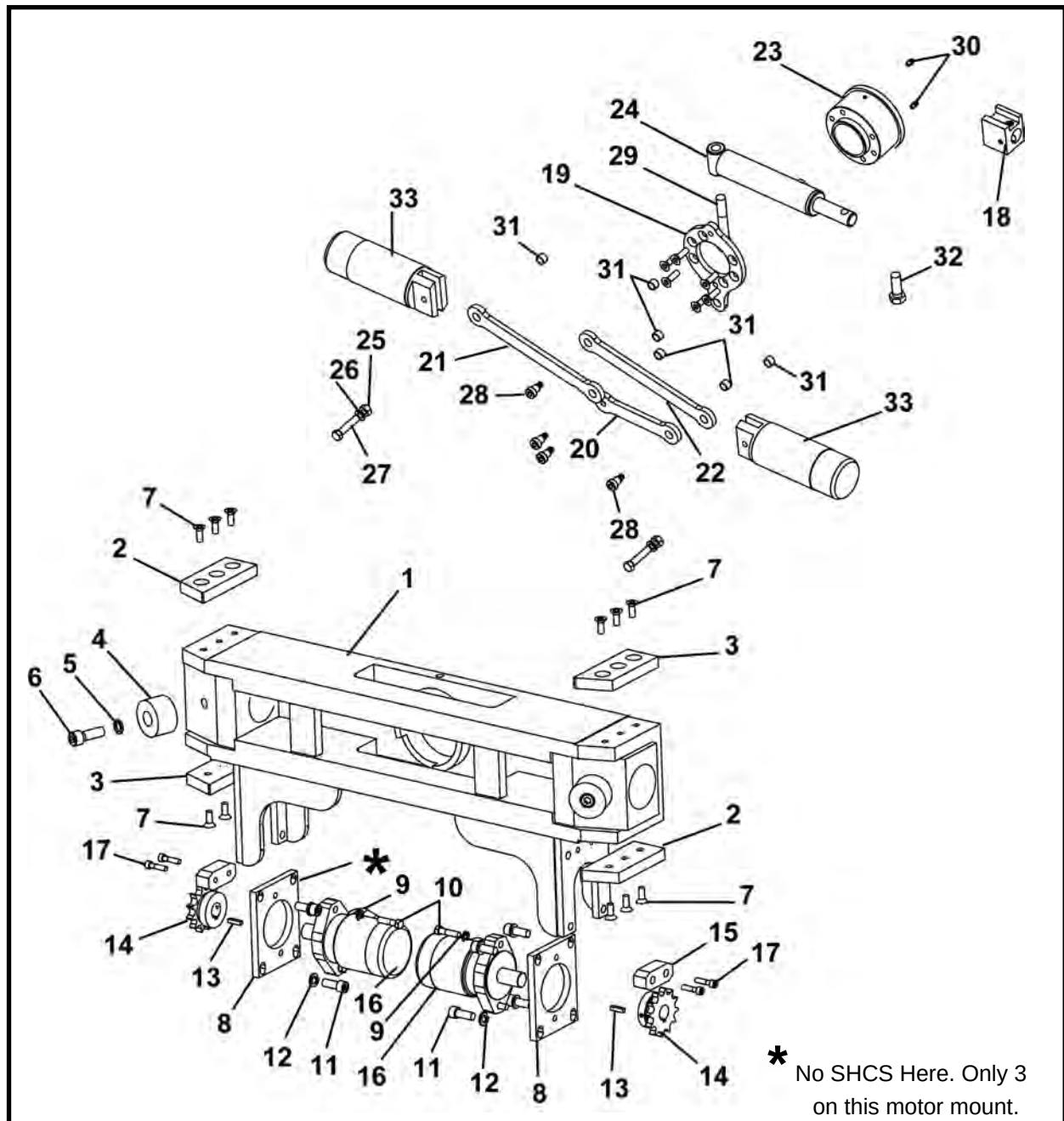


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43050A	PLANETARY GEAR BOX ASSEMBLY
1	1	A43051P	GEAR, Sun
2	3	A43052P	GEAR, Planet
3	1	A43053P	GEAR, Ring
4	1	A43054P	HOUSING, Main
5	1	A43055P	CARRIER, Planet
6	1	A43056P	PLATE
7	3	A43057P	STUD
8	5	-	PIN, Dowel
9	6	-	SCREW, Hex Head Zinc (Tighten to 28 ft-lb torque)
10	6	-	WASHER, Lock Zinc
11	75	-	ROLLER, Needle
12	8	-	SCREW, Socket Head Cap (Tighten to 70 ft-lb torque)
13	1	-	SNAP RING
14	1	-	WSHER, Thrust Bronze
15	6	-	WASHER, Thrust

Note:

1. All bolts must have threads coated with Loctite® #680.
2. Use Loctite® #58775 on all sealing surfaces.

HYDRAULIC LATCHING ASSEMBLY, A42424A **308A LATCHING FRAME**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42424A	HYDRAULIC LATCHING ASSEMBLY
1	1	A42425A	WELDMENT, Hydraulic Staging
2	2	A42429P	WEAR PLATE 1
3	2	A42412P	WEAR PLATE 2
4	2	A40859P	ASSEMBLY, Bumper Staging
5	2	P0046-010	WASHER, Lock Hi-Collar 5/8
6	2	P0031-10-007	SCREW, Socket Head Cap 5/8-11 UNC x 1.75
7	18	P0030-06-004	SCREW, Flat Head Socket Head Cap 3/8-16 UNC x 1
8	2	A42426P	PLATE, Motor Mounting
9	4	P0045-006	WASHER, Lock 3/8
10	4	P0001-06-006	BOLT 3/8-16 UNC x 1.50
11	7	P0031-08-005	SCREW, Socket Head Cap 1/2 UNC x 1-1/4

HYDRAULIC LATCHING ASSEMBLY, A42424A
308A LATCHING FRAME

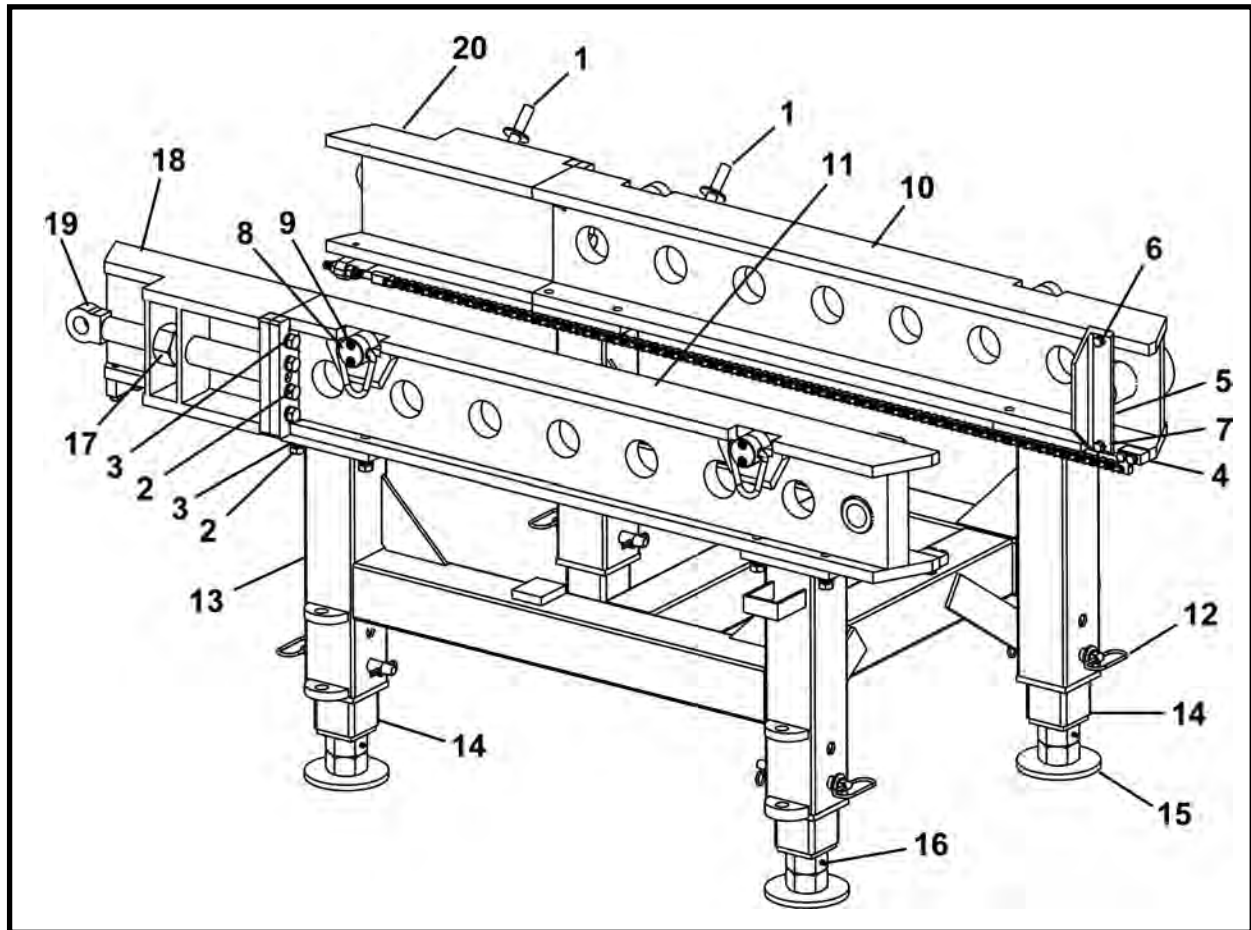
ITEM	QTY	PART NO.	DESCRIPTION
12	7	P0046-008	WASHER, Lock Hi-Collar 1/2
13	2 LI	P0047-003	KEY
14	2	P0071-001	SPROCKET, Travel
15	2	A40735P	CHAIN GUIDE
16*	2	P0304-161	MOTOR
17	4	P0031-05-005	SCREW, Socket Head Cap 5/16 UNC x 1-1/4
18	1	A42406P	CYLINDER CONNECTION/GUIDE
19	1	A42407P	ACTUATOR PLATE
20	1	A42408P	LINK ARM #1
21	1	A42409P	LINK ARM #2
22	1	A42410P	LINK ARM #3
23	1	A42427P	ASSEMBLY, Bushing-Staging
24**	1	P0307-151	CYLINDER
25	2	P0003-07-000	NUT, 7/16
26	2	P0045-007	WASHER, LOCK 7/16
27	2	P0001-07-008	BOLT 7/16 UNC x 2
28	4	A42452P	BOLT, Socket Head Shoulder 1/2 x 3/8
29	1	P0001-10-016	BOLT, Hex 5/8 UNC x 4
30	2	P0063-001	FITTING, Grease
31	6	A42428P	BUSHING, Link Arm
32	1	P0001-10-007	BOLT 5/8 UNC x 1.75
33	2	A40854P	ASSEMBLY, Pin Staging

* Refer to section 8, Motors for parts information.

** Refer to section 10, Cylinders for parts information.

LI - Linear Inch

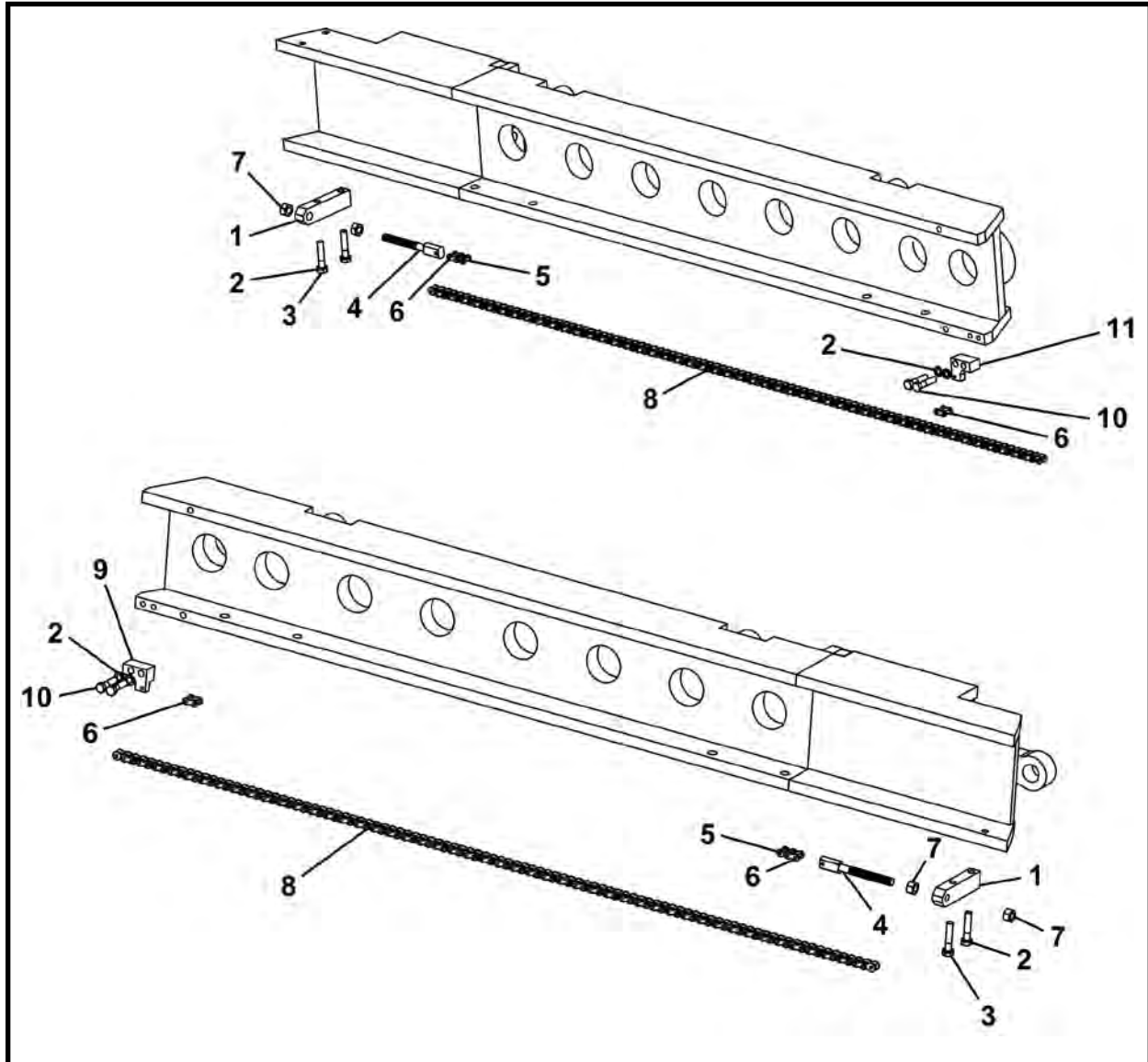
ADJUSTABLE LATCHING BASE ASSEMBLY, A40495A
308A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40495A	ADJUSTABLE LATCHING BASE ASSEMBLY
1	2	A42505A	PILOT TUBE HOLDER
2	24	P0001-12-008	BOLT, 3/4-10 UNC x 2
3	24	P0045-012	LOCKWASHER 3/4
4*	1	A40745A	ASSEMBLY, Travel Motor
5	2	A42507A	STOP, Staging Assembly
6	4	P0001-08-001	BOLT, 1/2-13 UNC x 1
7	4	P0045-008	WASHER, Lock 1/2
8	4	P0091-010	LIFT RING, Pivot
9	8	P0031-08-006	SCREW, Socket Head Cap 1/2-13 UNC x 1.50
10	1	A40131A	WELDMENT, Side
11	1	A40130A	WELDMENT, Side
12	4	P0090-013	PIN, Hinge
13	1	A40496A	WELDMENT, Lower Base
14	4	A40111A	LEG
15	4	A40112A	WELDMENT, Screw Jack
16	4	P0063-001	FITTING, Grease
17	2	P0005-32-000	NUT
18	1	A40136A	WELDMENT, Frame End
19	2	A40143A	WELDMENT, Tension Screw
20	1	A40164A	WELDMENT, Frame End - Right

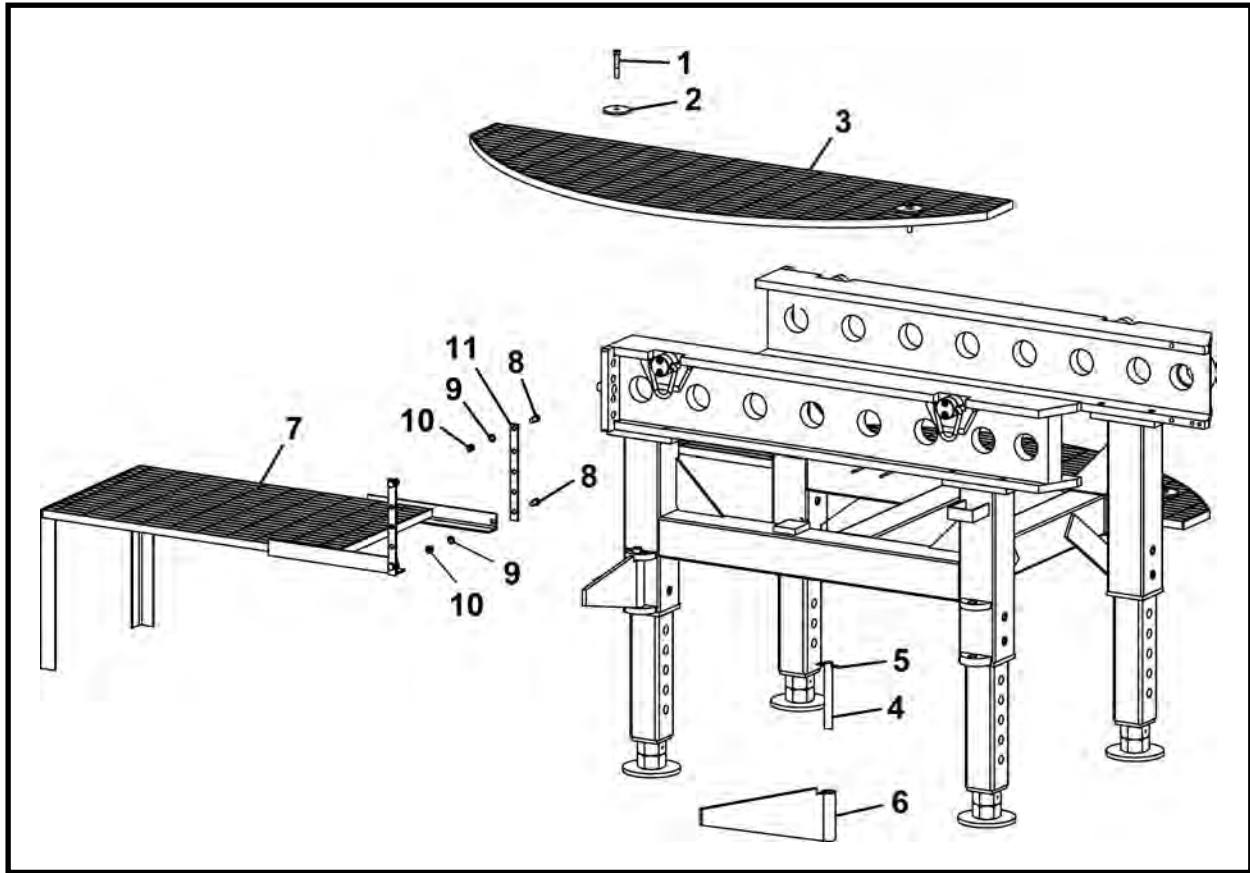
* Refer to this section for parts information.

TRAVEL MOTOR ASSEMBLY, A40745A
308A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40745A	TRAVEL MOTOR ASSEMBLY
1	2	A40737P	CHAIN TENSIONER ADJUSTMENT
2	8	P0045-008	WASHER, Lock 1/2
3	4	P0001-08-010	BOLT, 1/2-13 UNC x 2.50
4	2	A44700P	ADJUSTABLE CHAIN TENSIONER
5	2	P0078-005	LINK, Repair
6	4	P0078-008	LINK, Connector
7	4	P0007-10-000	NUT, Jam 5/8
8	156 LI	P0078-002	CHAIN, Roller
9	1	A42368P	ANCHOR, Chain Tensioner, Left
10	4	P0001-08-008	BOLT, 1/2-13 UNC x 2
11	1	A40736P	ANCHOR, Chain Tensioner, Right

OPERATOR PLATFORM ASSEMBLY, A42510A
308A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42510A	OPERATOR PLATFORM ASSEMBLY
1	4	P0001-08-112	BOLT, Hex 1/2 UNC x 3
2	4	003640P00	WASHER, Steering Link
3	2	A42489A	CATWALK, Side
4	4	A42485P	PIN, Hinge
5	4	P0049-125	PIN, Roll 1/4 x 3
6	4	A42488A	HINGE, Catwalk
7	1	A42501A	CATWALK, Center
8	4	P0001-08-004	BOLT, 1/2 UNC x 1
9	4	P0045-008	WASHER, Lock 1/2
10	4	P0003-08-000	NUT, 1/2
11	2	A40494P	STRAP ADJUSTMENT

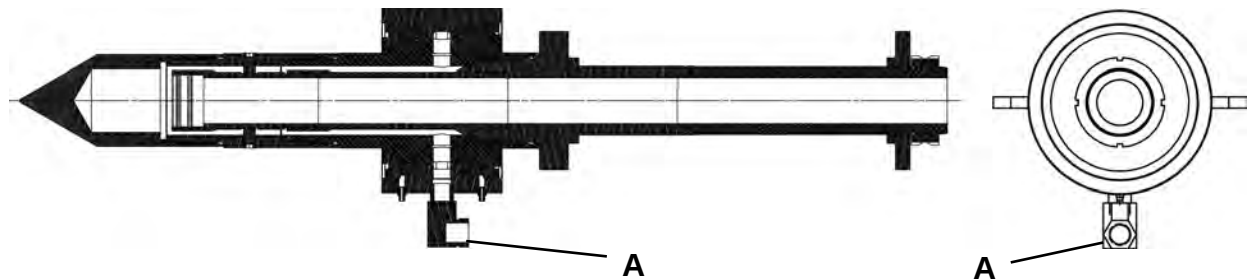
DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F

There are 3 versions of the FA40235F Drive Adapter & Swivel Assembly.

Use the illustrations below to identify your drive adapter & swivel assembly version. The parts breakdown for the 3 versions are located on pages 3-22 through 3-26.

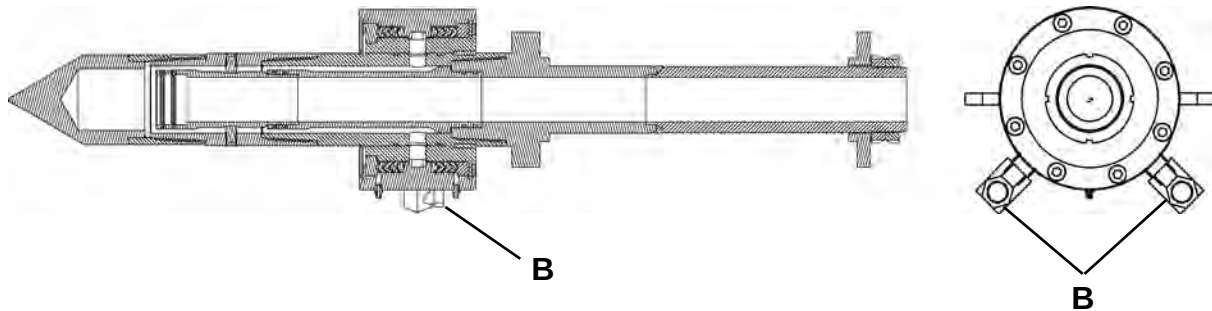
• VERSION 1

The swivel assembly has one lubrication port (A) as shown. The parts breakdown is located on pages 3-22 and 3-23.



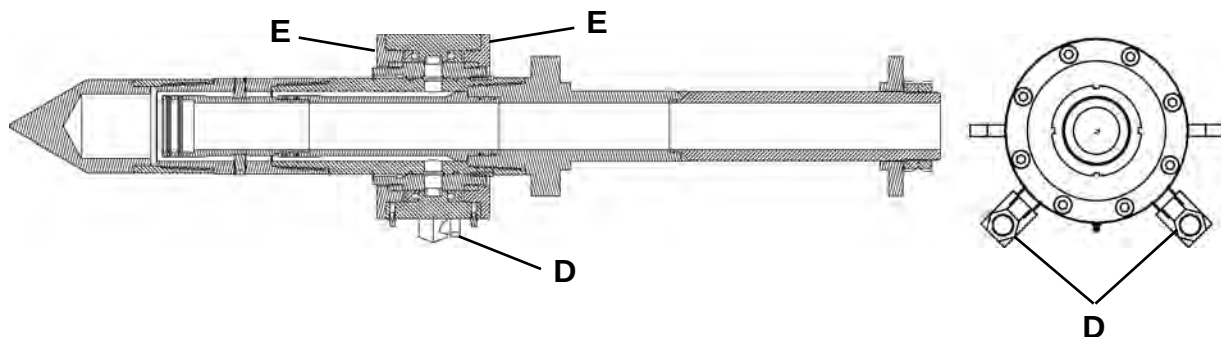
• VERSION 2

The swivel assembly has two lubrication ports (B). The parts breakdown is located on pages 3-24 and 3-25.

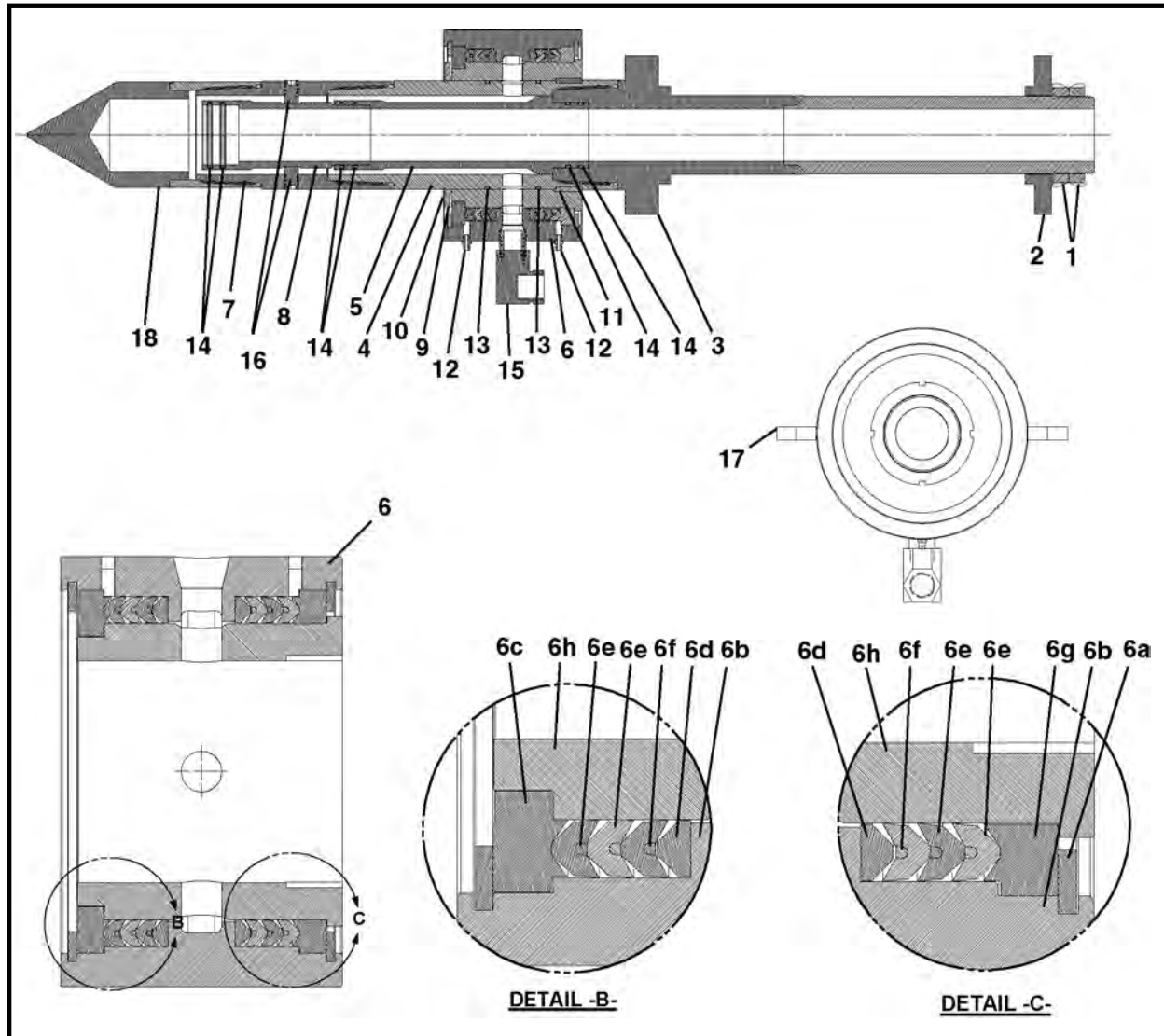


• VERSION 3

The swivel assembly has two lubrication ports (D) with an "A" stamped on top swivel plates (E) as shown. The parts breakdown is located on page 3-26.



DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F
VERSION 1 IDENTIFICATION: ONE LUBRICATION PORT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
1	2	P0065-170	NUT, Lock
2	1	A40556P	WASHER, Fluid Swivel
3	1	A40236A	SWIVEL, Drive Adapter
4	1	A40542P	TUBE, Outer - Swivel Mount
5	1	A40543P	TUBE, Inner - Swivel Mount
6	1	P0119-001	ASSEMBLY, Swivel (Includes items 6a - 6h)
6a	2	P0119-001B	RING, Snap
6b	1	NSS	HOUSING, Swivel
6c	1	P0119-001D	ADAPTER, Lower Packing
6d	2	P0119-001F	ADAPTER, Male
6e	4	P0119-001G	PACKING
6f	2	P0119-001K	PACKING
6g	1	P0119-001H	ADAPTER, Upper Packing
6h	1	P0119-001I	SPINDLE
7	1	A40544P	SUB SAVER
8	1	A40545P	TUBE, Inner - Sub Saver

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F

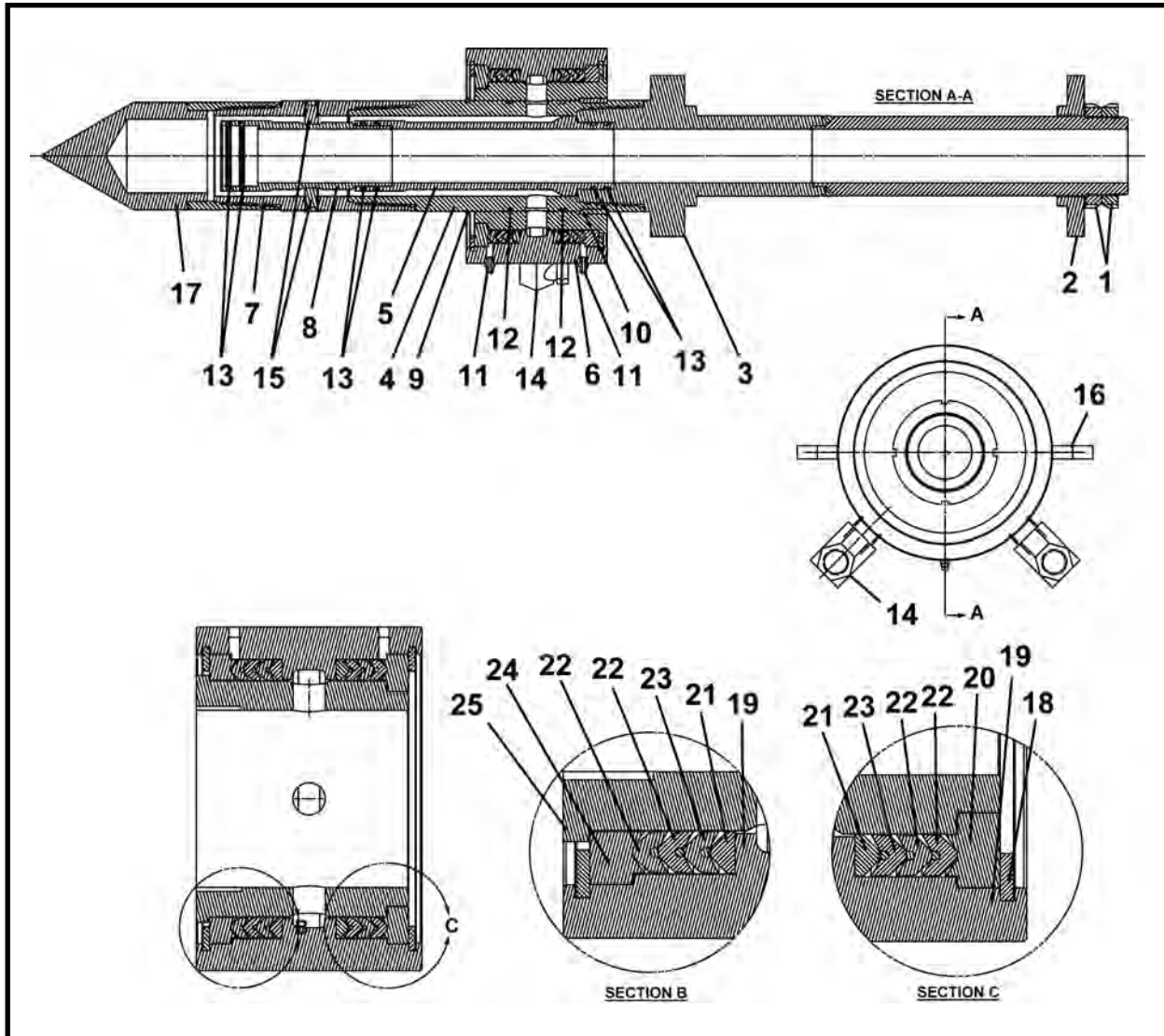
VERSION 1 IDENTIFICATION: ONE LUBRICATION PORT

ITEM	QTY	PART NO.	DESCRIPTION
9	1	A40548P	RING, Retaining Swivel Mount
10	1	P0077-049	RING, Spiral External Snap
11	2	P0047-002	KEY
12	2	P0063-001	GREASE FITTING 1/4
13	2	P0085-241	ORING
14	6	P0085-228	ORING
15	1	P0300-032	FITTING, 90 Degree
16	2	P0033-08-016	SCREW, Set 1/2-13 UNC x 1
17	2	NSS	BAR, Swivel Retainer
18	1	A40253A	ALIGNMENT GUIDE

NSS - Not Sold Separately

NOTE: Lock pilot tube joints with Baker Lok, part number P0310-779 (on male threads only). DO NOT lock pilot tube to Alignment Guide, item 18.

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F
VERSION 2 IDENTIFICATION: TWO LUBRICATION PORTS



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
1	2	P0065-170	NUT, Lock
2	1	A40556P	WASHER, Fluid Swivel
3	1	A40236A	SWIVEL, Drive Adapter
4	1	A40542P	TUBE, Outer - Swivel Mount
5	1	A40543P	TUBE, Inner - Swivel Mount
6	1	P0119-002	ASSEMBLY, Swivel (Includes items 18-25)
7	1	A40544P	SUB SAVER
8	1	A40545P	TUBE, Inner - Sub Saver
9	1	P0077-049	RING, Spiral External Snap
10	2	P0047-002	KEY
11	2	P0063-001	GREASE FITTING 1/4
12	2	P0085-241	ORING
13	6	P0085-228	ORING
14	2	P0300-034	FITTING, 90 Degree
15	2	P0033-08-016	SCREW, Set 1/2-13 UNC x 1
16	2	NSS	BAR, Swivel Retainer

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F
VERSION 2 IDENTIFICATION: TWO LUBRICATION PORTS

ITEM	QTY	PART NO.	DESCRIPTION
17	1	A40253A	ALIGNMENT GUIDE
18*	2	P0119-001B	RING, Snap
19*	1	NSS	HOUSING, Swivel
20*	1	P0119-001D	ADAPTER, Lower Packing
21*	2	P0119-001F	ADAPTER, Male
22*	4	P0119-001G	PACKING
23*	2	P0119-001K	PACKING
24*	1	P0119-001H	ADAPTER, Upper Packing
25*	1	P0119-001I	SPINDLE

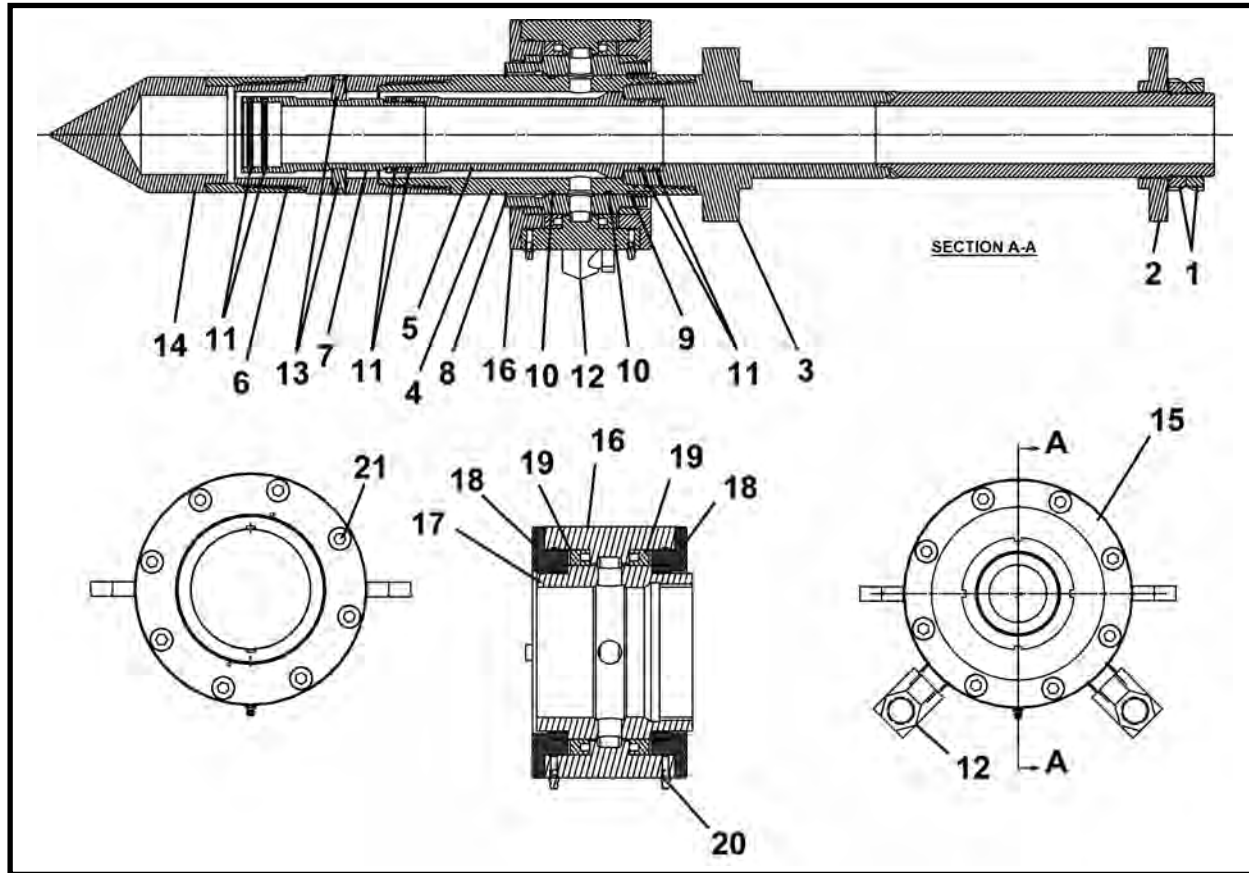
* Included in item 6, Swivel Assembly.

NSS - Not Sold Separately

NOTE: Lock pilot tube joints with Baker Lok, part number P0310-779 (on male threads only). DO NOT lock pilot tube to Alignment Guide, item 17.

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F

VERSION 3 IDENTIFICATION: TWO LUBRICATION PORTS WITH "A" STAMPED ON TOP SWIVEL PLATES

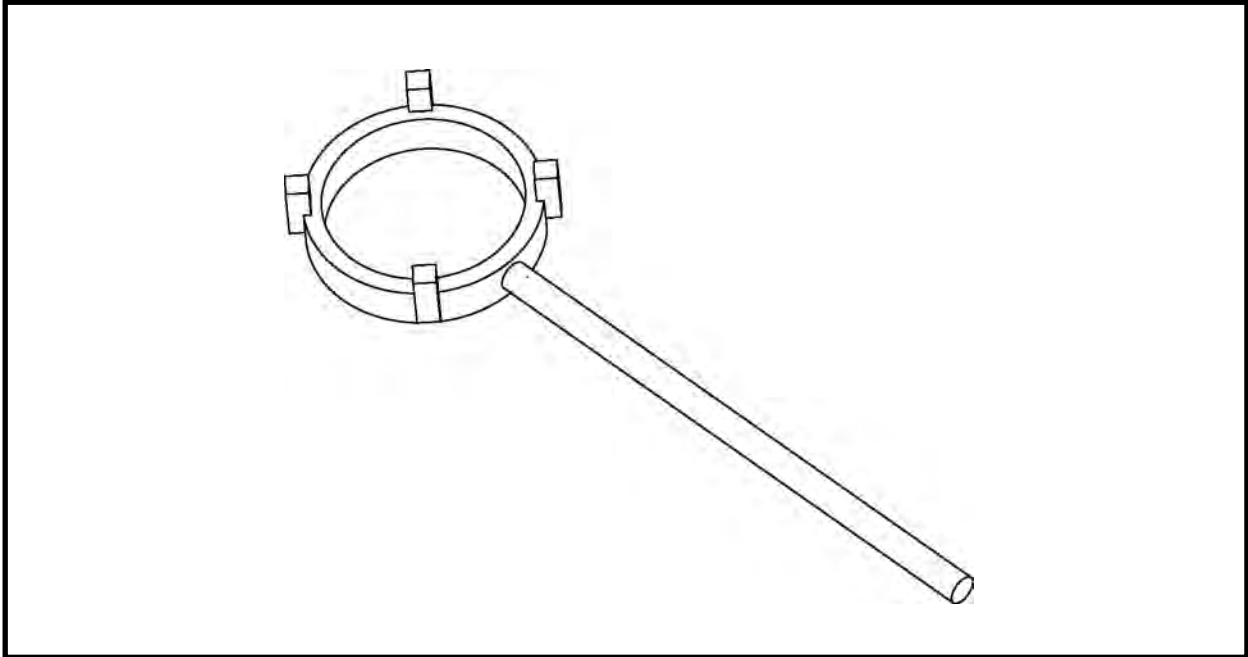


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
1	2	P0065-170	NUT, Lock
2	1	A40556P	WASHER, Fluid Swivel
3	1	A40236A	SWIVEL, Drive Adapter
4	1	A40542P	TUBE, Outer - Swivel Mount
5	1	A40543P	TUBE, Inner - Swivel Mount
6	1	A40544P	SUB SAVER
7	1	A40545P	TUBE, Inner - Sub Saver
8	1	P0077-049	RING, Spiral External Snap
9	2	P0047-002	KEY
10	2	P0085-241	ORING
11	6	P0085-228	ORING
12	2	P0300-198	FITTING, 12MB-08FPX90
13	2	P0033-08-014	SCREW, Set 1/2 UNC x .875
14	1	A40581P	ALIGNMENT GUIDE
15	1	A41547A	ASSEMBLY, Fluid Swivel (Includes items 16 - 21)
16	1	A41546A	WELDMENT, Outer Swivel
17	1	A41544P	SWIVEL, Inner
18	2	A41543A	ASSEMBLY, Plate-Swivel
19	2	P0065-211	SEAL, Rod
20	2	P0063-001	FITTING, Grease
21	16	P0030-06-003	SCREW, Flat Head Cap 3/8 UNC x .75

NSS - Not Sold Separately

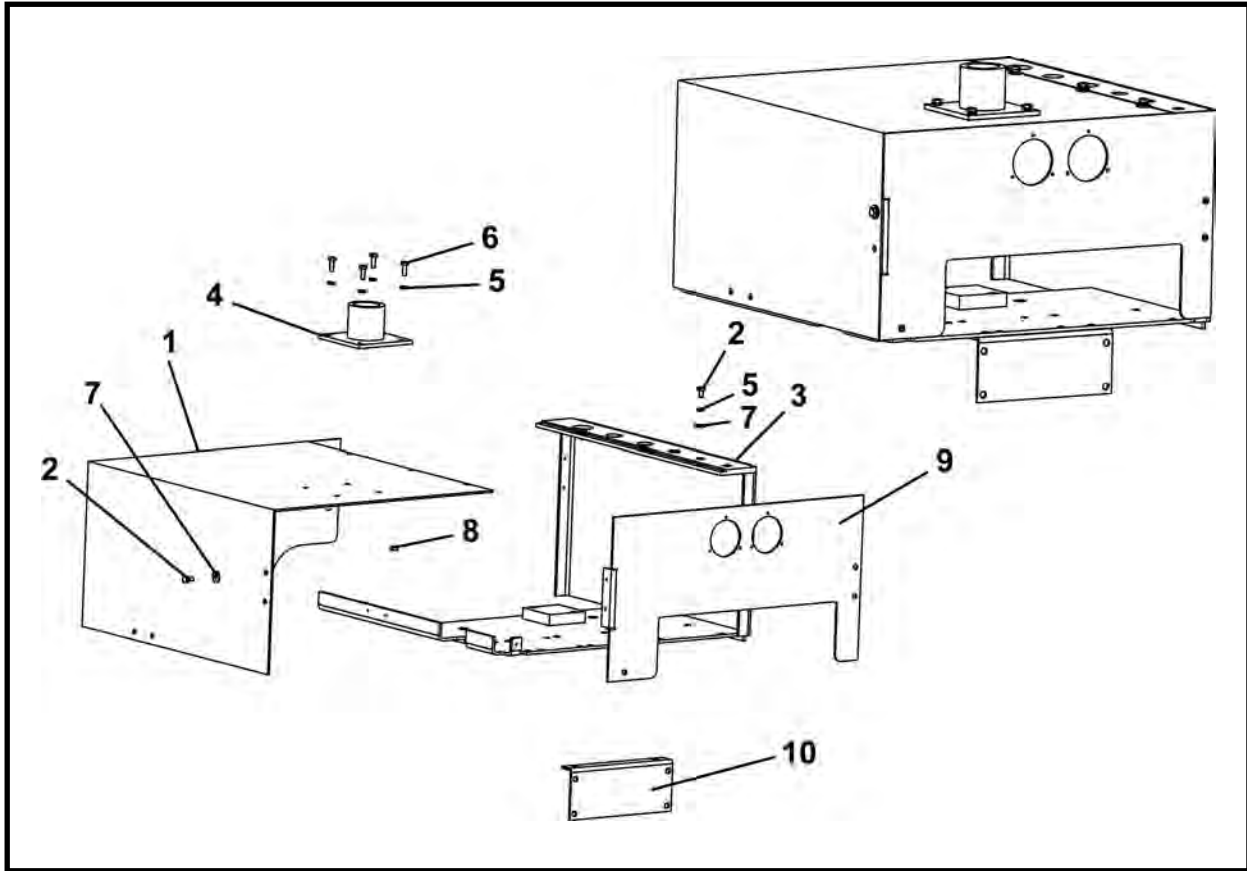
NOTE: Lock pilot tube joints with Baker Lok, part number P0310-779 (on male threads only). DO NOT lock pilot tube to Alignment Guide, item 14.

SPINDLE NUT WRENCH, A40740A
LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40740A	WRENCH, Spindle Nut

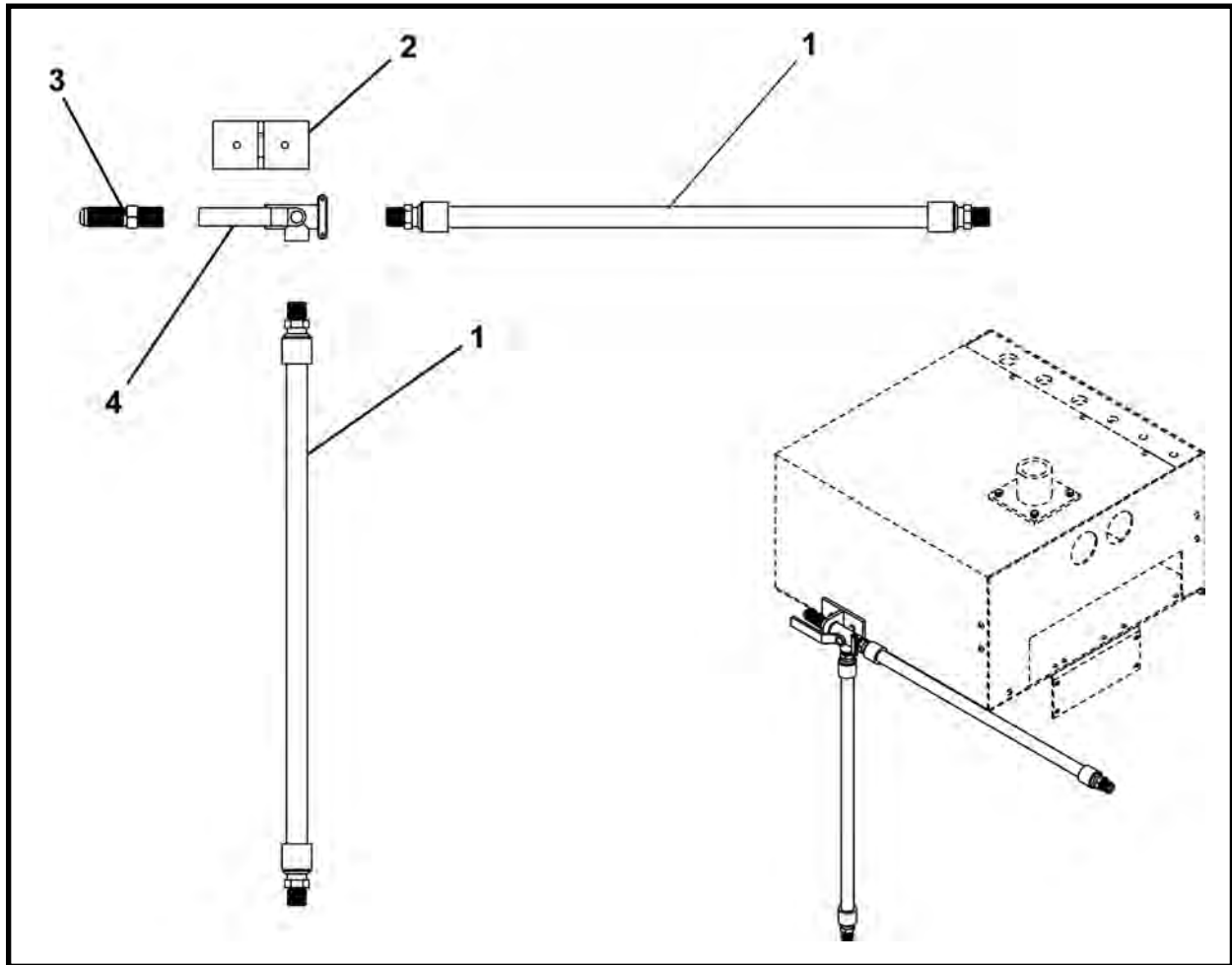
VALVE COVER ASSEMBLY, A42481A
LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42481A	VALVE COVER ASSEMBLY
1	1	A42497P	COVER, Top Valve
2	12	P0001-04-002	BOLT, 1/4 UNC x .5
3	1	A42446A	WELDMENT, Valve Mounting Plate
4	1	A42030A	ASSEMBLY, Bottom Mount Monitor
5	7	P0045-004	WASHER, Lock 1/4
6	4	P0001-04-003	BOLT, 1/4 UNC x .75
7	12	P0040-004	WASHER, Hardened Flat 1/4
8	4	P0003-04-000	NUT, 1/4
9	1	A42493P	COVER, Front Valve
10	1	A42471P	MOUNT, Pressure Reducing Valve

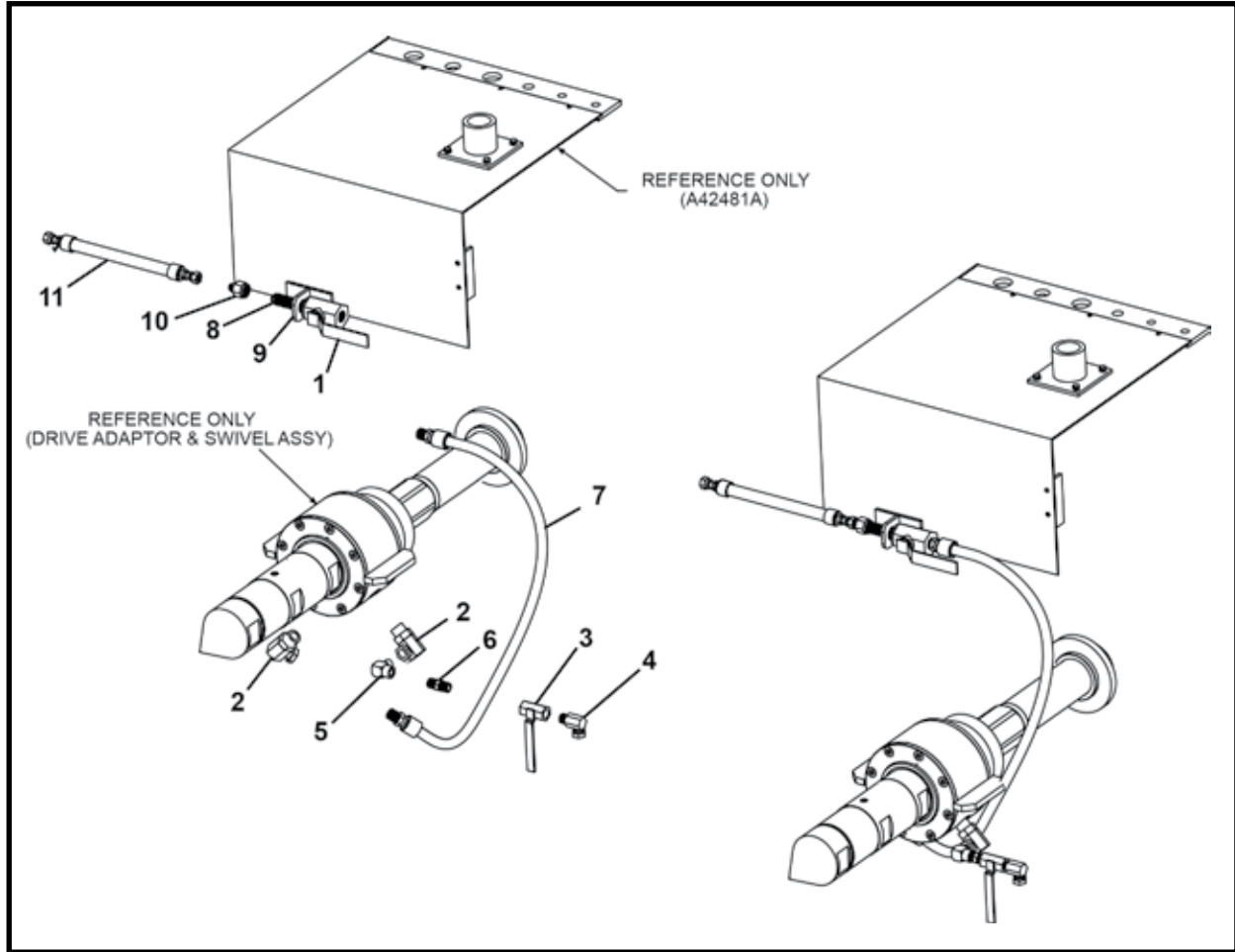
NOTES

FLUID CONTROL ASSEMBLY WITH 3 WAY BALL VALVE, A43570A
LATCHING FRAME



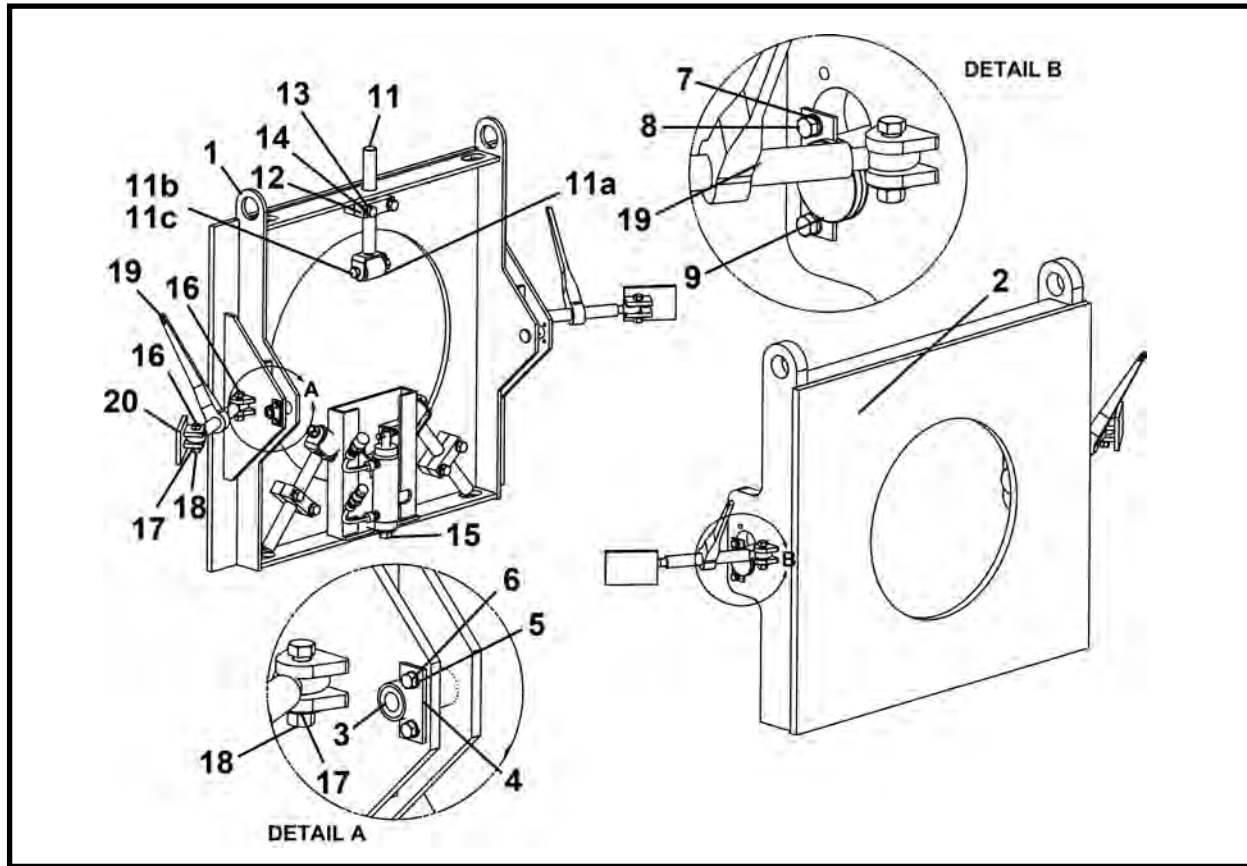
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43570A	ASSEMBLY, Fluid Control
1	2	A10461A-036	HOSE ASSEMBLY, 1/2 x 36
2	1	A43569A	BRACKET, Fluid Control
3	1	P0300-567	FITTING, 10MJ-8MPKBHD
4	1	P0302-512	VALVE, 3 Way Ball

FLUID CONTROL ASSEMBLY WITH 2 WAY BALL VALVE, A43570A **LATCHING FRAME**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43570A	ASSEMBLY, Fluid Control
1	1	P0302-325	VALVE, 2 Way Ball
2	2	P0300-198	FITTING, 12MB-08FPX90
3	1	P0302-507	VALVE, Ball
4	1	P0300-160	FITTING, 06MP-06FPX90
5	1	P0300-017	FITTING, 08MP-06FP90
6	1	P0300-570	FITTING, 6MP-6MP
7	1	A10320A-039	HOSE ASSEMBLY, 1/2 x 39
8	1	P0300-567	FITTING, 10MJ-8MPKBHD
9	1	A43569A	BRACKET, Fluid Control
10	1	P0300-147	FITTING, 10FJ-06MJ
11	1	A10311A-012	HOSE ASSEMBLY, 3/8 x 12

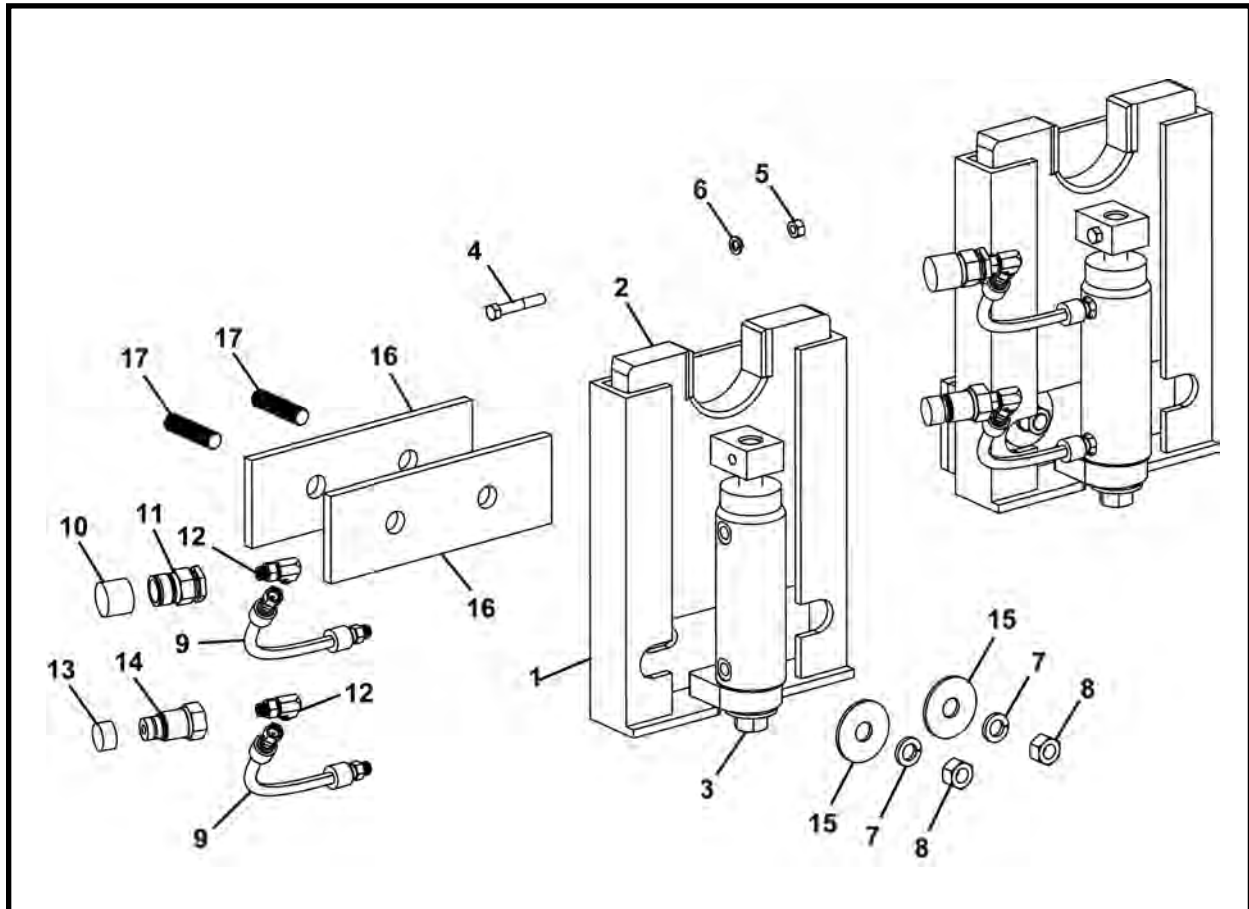
FRAME ENDS, 8 FT SQUARE SHAFT, FA40018F
308A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40018F	FRAME ENDS, 8 FT Square Shaft
1	1	A40140A	WELDMENT, Straight Front
2	1	A40139A	WELDMENT, Straight Back
3	2	A40830P	PIN, Front Plate
4	2	A40831P	PIN KEEPER, Front Plate
5	4	P0045-006	WASHER, Lock 3/8
6	4	P0001-06-003	BOLT, Hex 3/8 UNC x .75
7	4	P0045-008	WASHER, Lock 1/2
8	4	P0001-08-004	BOLT, Hex 1/2 UNC x 1
9	2	A40824P	PIN, Rear Mount
10	2	A40825P	PIN KEEPER, Rear Mount
11	3	A40167A	ASSEMBLY, Roller Bracket (Includes items 11a - 11c)
11a	1	A40448P	ROLLER
11b	1	P0003-12A-000	NUT, Nylock 3/4
11c	1	P0001-12-018	BOLT, Hex 3/4 UNC x 4.5
12	6	A40449P	MOUNT, Roller Bracket
13	6	P0045-012	WASHER, Lock 3/4
14	6	P0001-12-016	BOLT, Hex 3/4 UNC x 4
15*	1	A42430A	HYDRAULIC MAKEUP TOOL
16	8	P0001-10-010	BOLT, Hex 5/8 UNC x 2.5
17	8	P0040-010	WASHER, Flat 5/8
18	8	P0003-10-000	NUT, 5/8
19	4	P0094-013	LOAD BINDER
20	4	A42442A	WELDMENT, Brace

* Refer to this section for parts information.

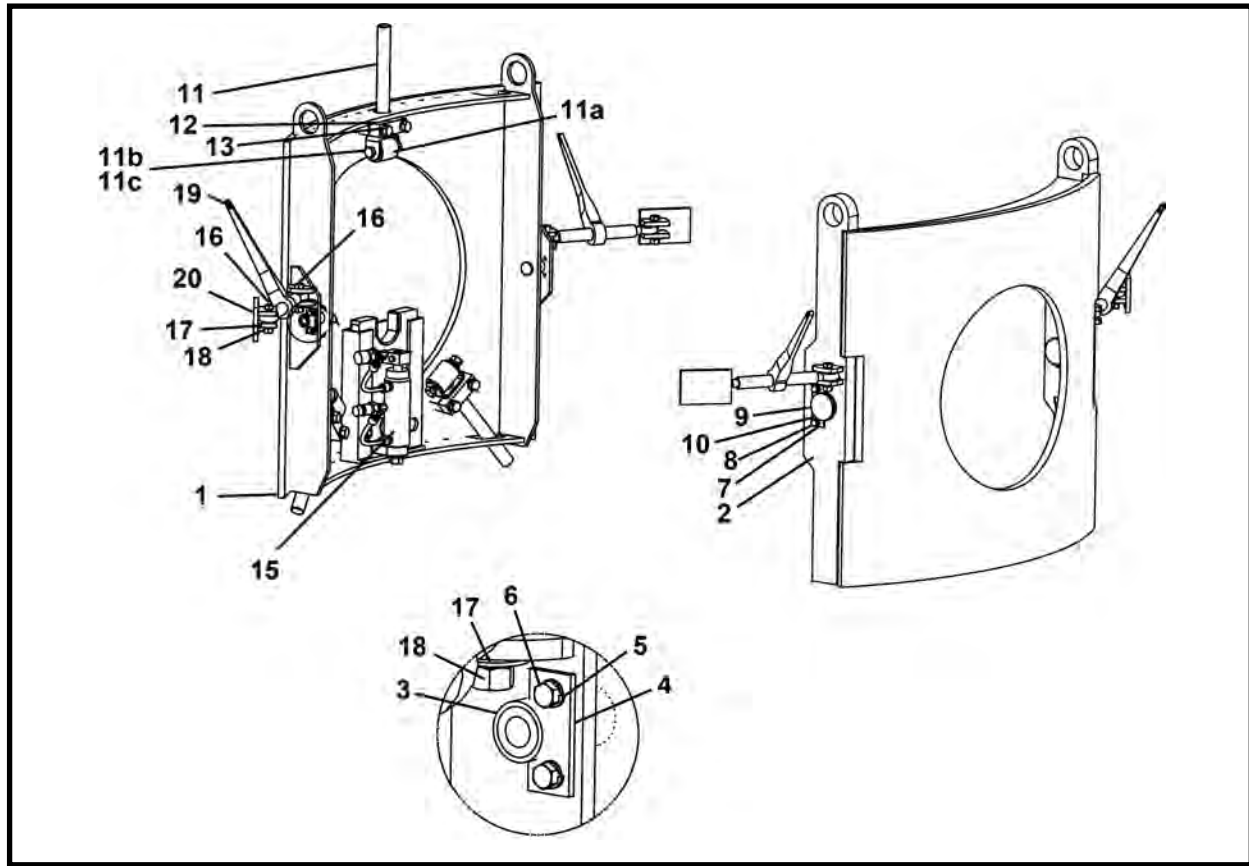
HYDRAULIC MAKEUP TOOL, A42430A **308A LATCHING FRAME**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42430A	HYDRAULIC MAKEUP TOOL
1	1	A42431A	HOUSING
2	1	A42437A	PLATE
3*	1	014603A00	CYLINDER
4	1	P0001-07-010	BOLT, 7/16 UNC x 2.5
5	1	P0003-07-000	NUT, 7/16
6	1	P0045-007	WASHER, Lock 7/16
7	2	P0045-012	WASHER, Lock 3/4
8	2	P0003-12-000	BOLT, Hex 3/4 UNC x 2.5
9	2	A10348A-072	HOSE ASSEMBLY, 1/4 x 72
10	1	P0100-047A	PLUG, Dust
11	1	P0100-047	COUPLER, Female
12	2	P0300-311	FITTING, 04MFFOR-06MB90
13	1	P0100-046A	CAP, Dust
14	1	P0100-046	COUPLER, Female
15	2	004124P01	WASHER
16	2	A42453P	SPACER, Rubber
17	2	P0025-12-048	STUD

* Refer to section 10, Cylinders for parts information.

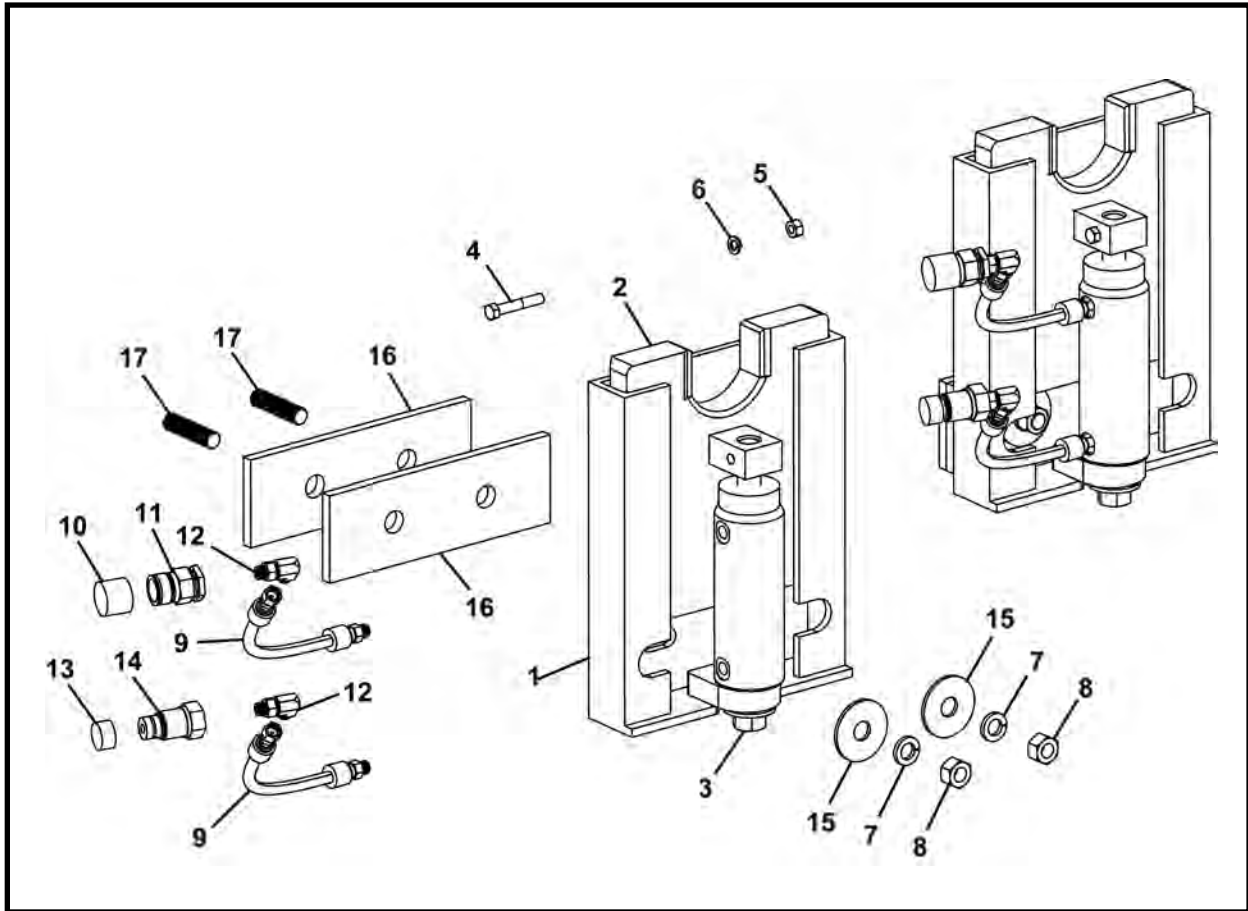
FRAME ENDS, 8 FT ROUND SHAFT, FA40017F
308A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40017F	FRAME ENDS, 8 FT Round Shaft
1	1	A40138A	WELDMENT, Radial Front
2	1	A40177A	WELDMENT, Radial Back, High Profile
3	2	A40830P	PIN, Front Plate
4	2	A40831P	PIN KEEPER, Front Plate
5	4	P0045-006	WASHER, Lock 3/8
6	4	P0001-06-003	BOLT, Hex 3/8 UNC x .75
7	4	P0045-008	WASHER, Lock 1/2
8	4	P0001-08-004	BOLT, Hex 1/2 UNC x 1
9	2	A40824P	PIN, Rear Mount
10	2	A40825P	PIN KEEPER, Rear Mount
11	3	A40167A	ASSEMBLY, Roller Bracket (Includes items 11a - 11c)
11a	1	A40448P	ROLLER
11b	1	P0003-12A-000	NUT, Nylock 3/4
11c	1	P0001-12-018	BOLT, Hex 3/4 UNC x 4.5
12	3	A40449P	MOUNT, Roller Bracket
13	6	P0045-012	WASHER, Lock 3/4
14	6	P0001-12-012	BOLT, Hex 3/4 UNC x 3
15*	1	A42430A	HYDRAULIC MAKEUP TOOL
16	8	P0001-10-010	BOLT, Hex 5/8 UNC x 2.5
17	8	P0040-010	WASHER, Flat 5/8
18	8	P0003-10-000	NUT, 5/8
19	4	P0094-013	LOAD BINDER
20	4	A42442A	WELDMENT, Brace

* Refer to this section for parts information.

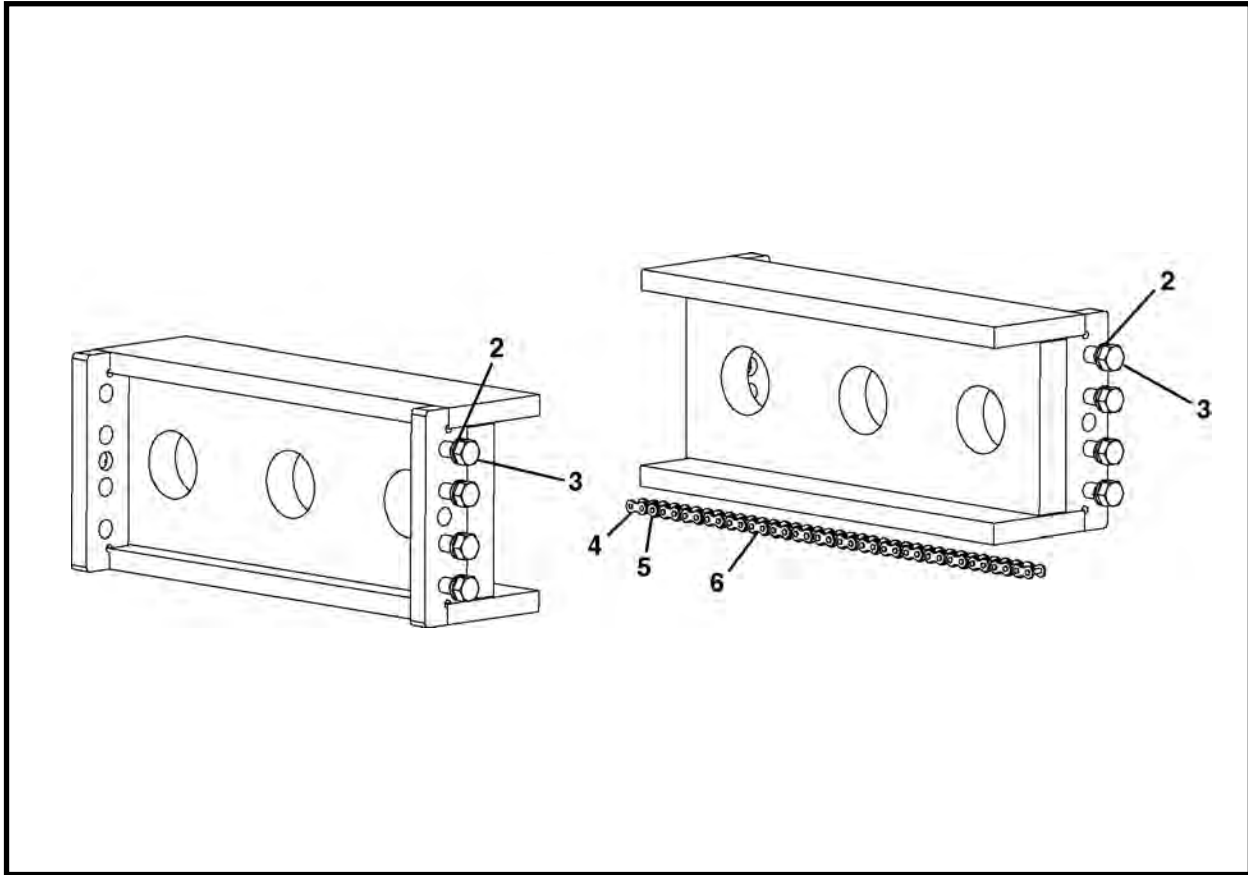
HYDRAULIC MAKEUP TOOL, A42430A **308A LATCHING FRAME**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42430A	HYDRAULIC MAKEUP TOOL
1	1	A42431A	HOUSING
2	1	A42437A	PLATE
3*	1	014603A00	CYLINDER
4	1	P0001-07-010	BOLT, Hex 7/16 UNC x 2.5
5	1	P0003-07-000	NUT, 7/16
6	1	P0045-007	WASHER, Lock 7/16
7	2	P0045-012	WASHER, Lock 3/4
8	2	P0003-12-000	BOLT, Hex 3/4 UNC x 2.5
9	2	A10348A-074	HOSE ASSEMBLY, 1/4 x 74
10	1	P0100-047A	PLUG, Dust
11	1	P0100-047	COUPLER, Female
12	2	P0300-311	FITTING, 04MFFOR-06MB90
13	1	P0100-046A	CAP, Dust
14	1	P0100-046	COUPLER, Female
15	2	004124P01	WASHER
16	2	A42453P	SPACER, Rubber
17	2	P0025-12-048	STUD

* Refer to section 10, Cylinders for parts information.

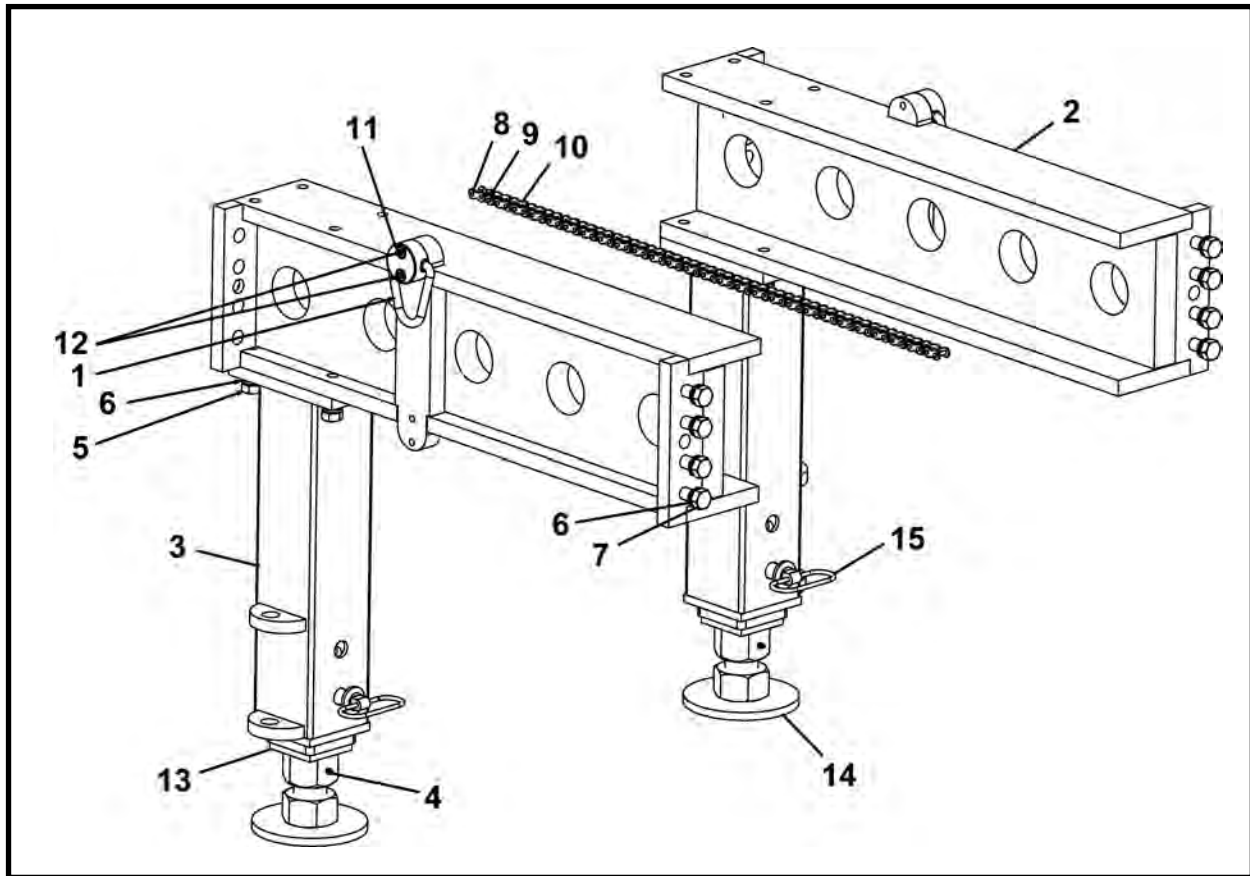
FRAME EXTENSIONS - 16" & 24"
LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA40015F	FRAME EXTENSION 16"
0.2	1	FA40016F	FRAME EXTENSION 24"
1.1	2	A40155A	WELDMENT, 16" Frame Extension
1.2	2	A40156A	WELDMENT, 24" Frame Extension
2	8	P0045-012	WASHER, Lock 3/4
3	8	P0001-12-009	BOLT, Hex 3/4 UNC x 2.25
4	2	P0078-008	LINK, Connector
5	2	P0078-005	LINK, Repair
6.1	32 LI	P0078-002	CHAIN, Roller (for 16" Extension)
6.2	48 LI	P0078-002	CHAIN, Roller (for 24" Extension)

LI - Linear Inch

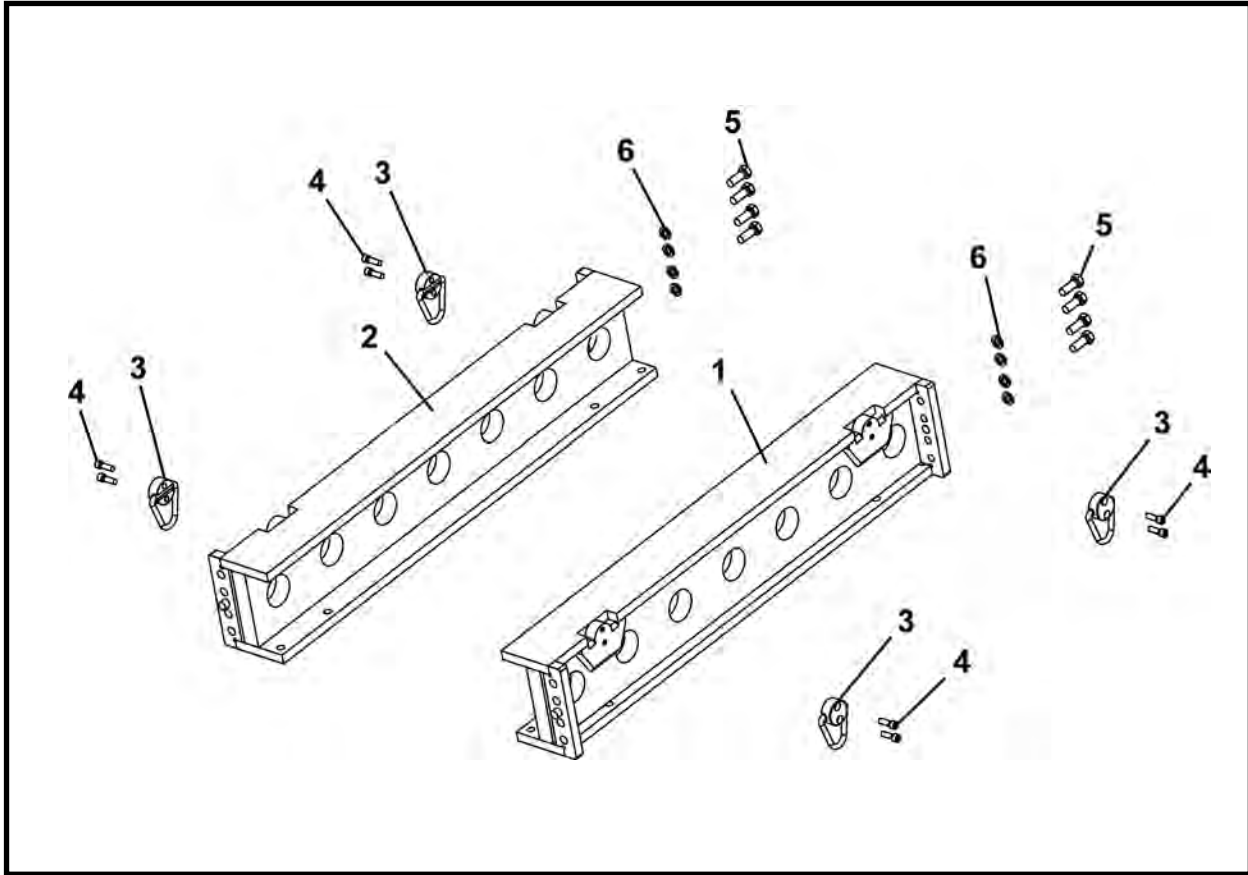
FRAME EXTENSION - 40", FA40012F
LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40012F	FRAME EXTENSION 40"
1	1	A40158A	WELDMENT, 40" Frame Extension - Left
2	1	A40298A	WELDMENT, 40" Frame Extension - Right
3	2	A40169A	WELDMENT, Leg
4	2	P0063-001	FITTING, Grease
5	8	P0001-12-008	BOLT, Hex 3/4 UNC x 2
6	16	P0045-012	WASHER, Lock 3/4
7	8	P0001-12-009	BOLT, Hex 3/4 UNC x 2.25
8	1	P0078-008	LINK, Connector
9	1	P0078-005	LINK, Repair
10	80 LI	P0078-002	CHAIN, Roller
11	2	P0091-010	RING, Pivot Lift
12	4	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
13	2	A40111A	WELDMENT, Front Leg
14	2	A40112A	WELDMENT, Screw Jack
15	2	P0090-013	PIN, Hitch

LI - Linear Inch

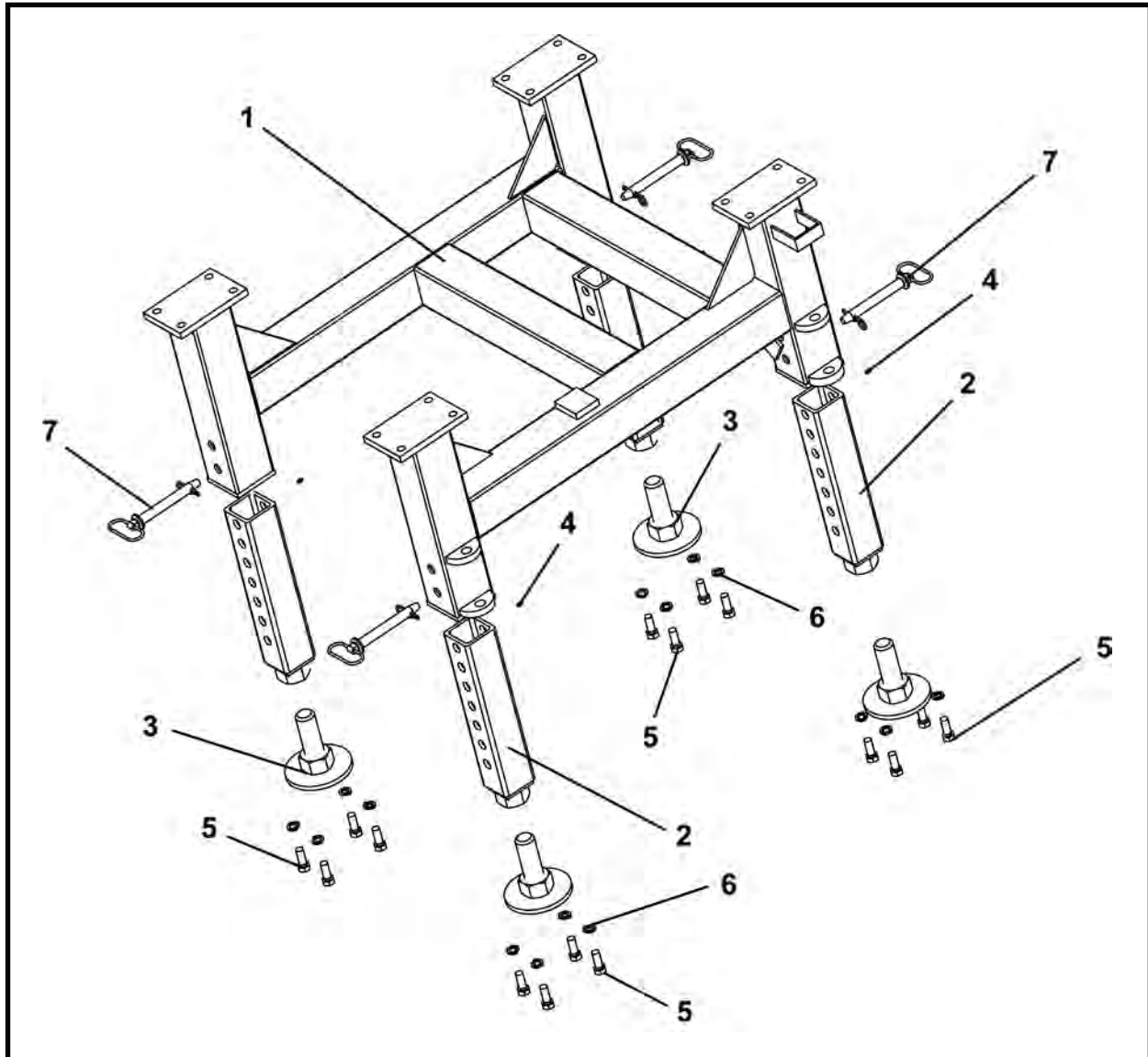
FRAME EXTENSION RAILS - 56", FA43236F
308A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43236F	FRAME EXTENSION RAILS 56"
1	1	A43233A	RAIL, A
2	1	A43234A	RAIL, B
3	4	P0091-010	RING, Pivot Lift
4	8	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
5	8	P0001-12-008	BOLT, Hex 3/4 UNC x 2
6	8	P0045-012	WASHER, Lock 3/4

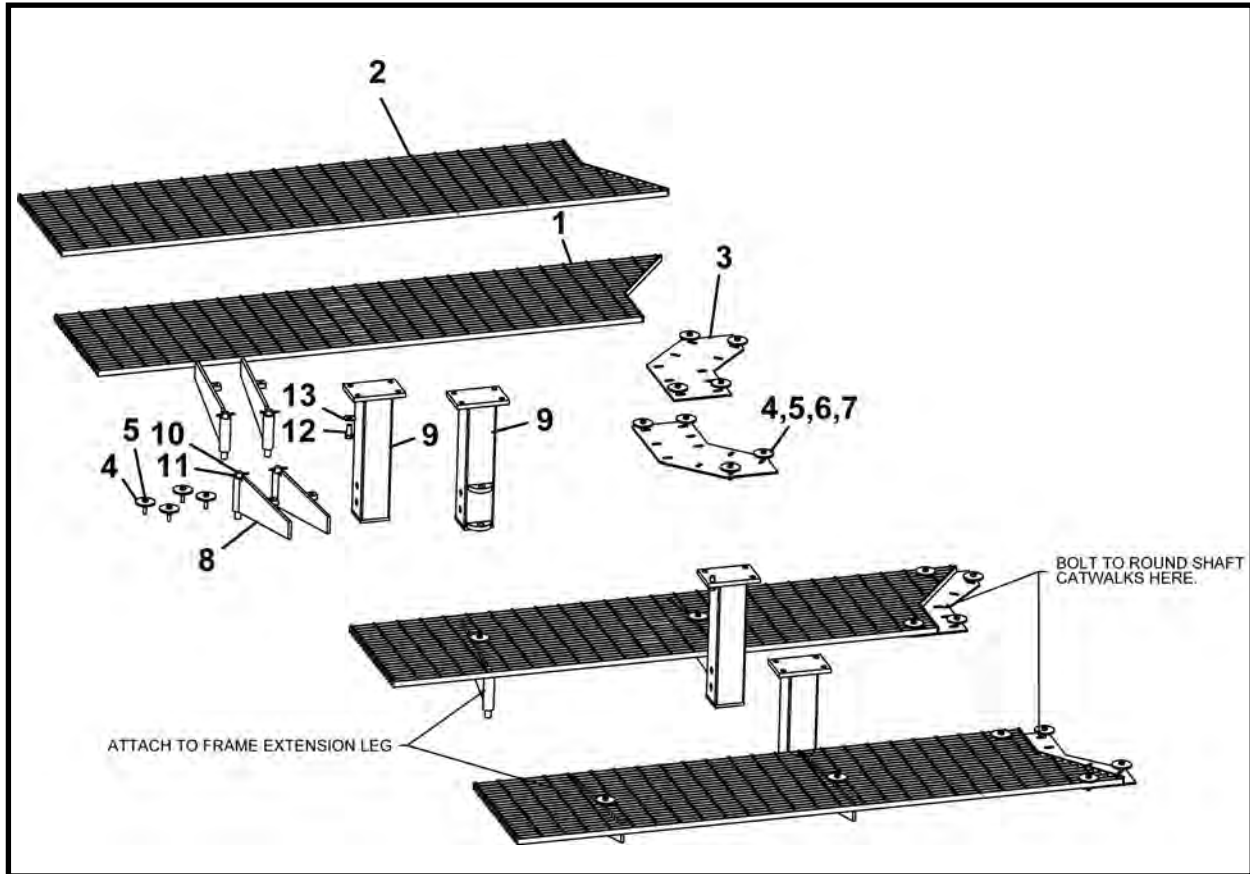
Note: The use of this 56" Frame Extensions Rails, FA43236F, requires the use of the 56" Extension Base, FA43237F.

FRAME EXTENSION BASE - 56", FA43237F
308A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43237F	FRAME EXTENSION BASE, 56"
1	1	A40496A	BASE, Lower
2	4	A40111A	LEG
3	4	A40112A	SCREW, Jack
4	4	P0063-001	FITTING, Grease 1/4
5	16	P0001-12-008	BOLT, Hex 3/4 UNC x 2
6	16	P0045-012	WASHER, Lock 3/4
7	4	P0090-013	PIN, Hitch

CATWALK EXTENSIONS ASSEMBLY, FA45687F
308A LATCHING FRAME



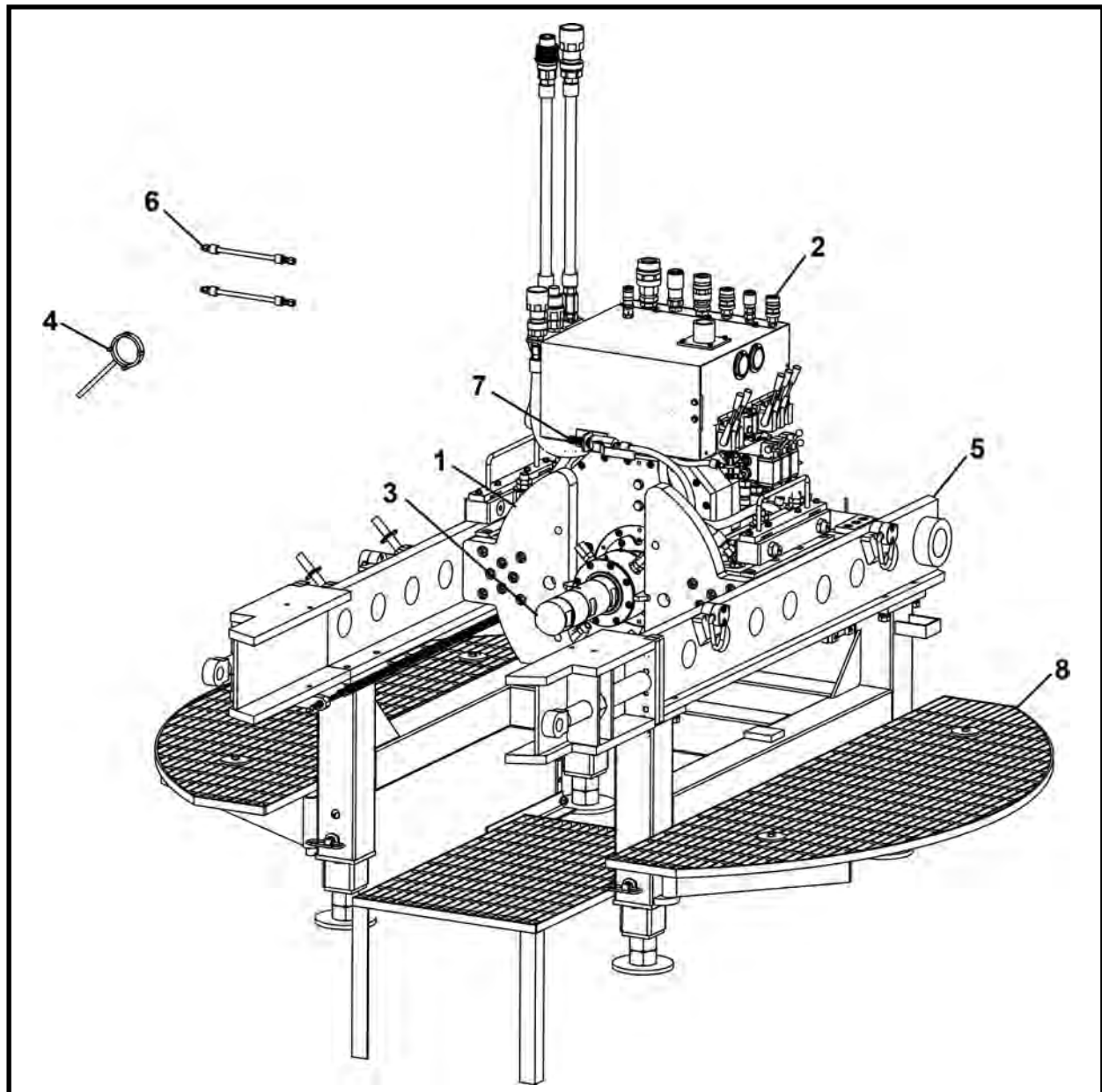
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45687F	CATWALK EXTENSIONS ASSEMBLY
1	1	A45689P	EXTENSION, Right
2	1	A45686P	EXTENSION, Left
3	2	A45688P	SPLICE, Extension
4	12	003640P00	WASHER
5	12	P0001-08-009	BOLT, 1/2 UNC x 2.25
6	8	P0040-008	WASHER, Hardened Flat 1/2
7	8	P0004-08-000	NUT, 1/2 UNF
8	4	A42488A	HINGE
9	2	A40169A	WELDMENT, Leg
10	4	A42485P	PIN, Hinge
11	4	P0049-125	PIN, Roll
12	8	P0001-12-007	BOLT, Hex 3/4 UNC x 1.75
13	8	P0040-012	WASHER, Hardened Flat 3/4

NOTE: Used with 40" (FA40012F) and 56" (FA43236F) extensions.

NOTES

LATCHING FRAME ASSEMBLY 339A, FA43500F

339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43500F	LATCHING FRAME ASSEMBLY, 339A
1.1*	1	A43503A	ASSEMBLY, Drilling Drive & Thrust (sn FA43500F-06 & Before)
1.2*	1	A43582A	ASSEMBLY, Drilling Drive & Thrust (sn FA43500F-07 & After)
2.1**	1	A43574A	ASSEMBLY, Hydraulics With PCH (sn FA43500F-06 & Before)
2.2**	1	A43590A	ASSEMBLY, Hydraulics (sn FA43500F-07 & After)
3*	1	FA40235F	ASSEMBLY, Drive Adapter & Swivel
4*	1	A40740A	WRENCH, Spindle Nut
5*	1	A43504A	ASSEMBLY, Latching Adjustable Base
6***	2	A10348A-014	HOSE ASSEMBLY, 1/4 x 14
7*	1	A43570A	ASSEMBLY, Fluid Control
8*	1	A43530A	ASSEMBLY, Operator Platform

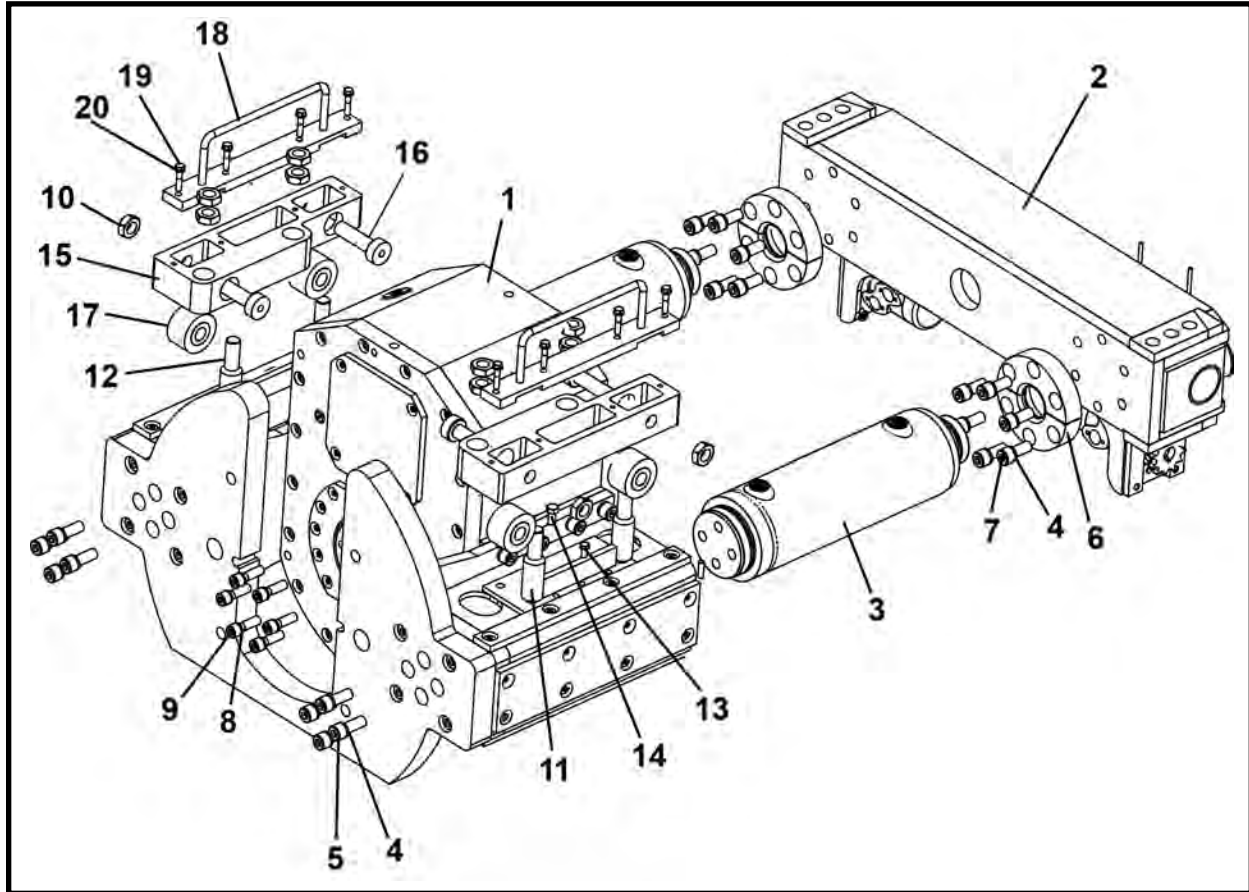
* Refer to this section for parts information.

** Refer to Section 6, Hydraulics for parts information.

*** For Hydraulic Make-Up Tool, A42430A

DRILLING DRIVE THRUST & LATCHING FRAME, A43503A

339A LATCHING FRAME (SN FA43500F-06 & Before)

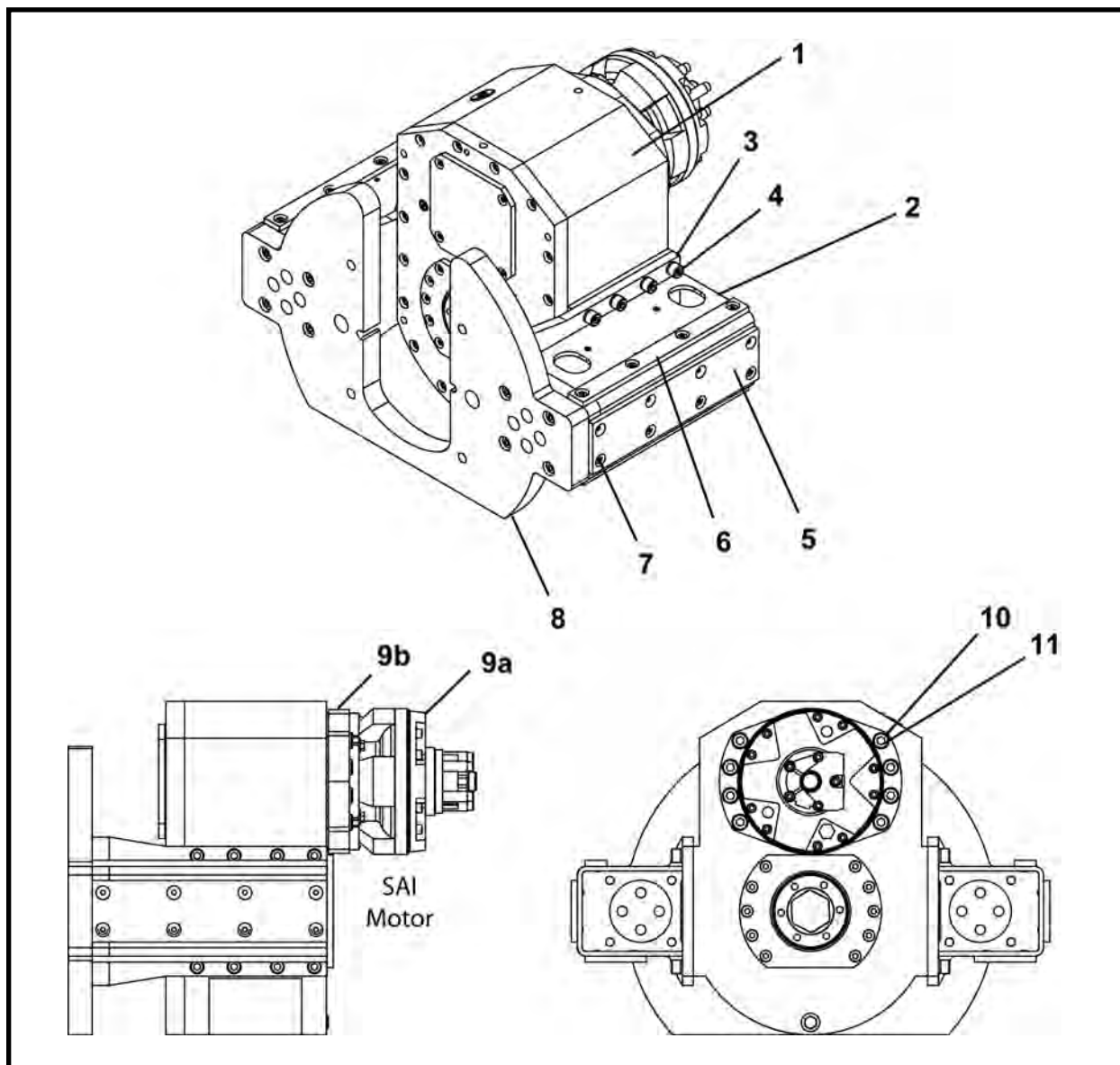


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43503A	DRILLING DRIVE THRUST & LATCHING FRAME
1*	1	A43513A	ASSEMBLY, Drilling Drive Thrust Frame
2*	1	A43505A	ASSEMBLY, Hydraulic Latching
3**	2	A40145A	ASSEMBLY, Cylinder
4	20	P0046-012	WASHER, Lock - Hi Collar 3/4
5	8	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
6	2	A40457P	RETAINER, Cylinder
7	12	P0031-12-007	SCREW, Socket Head Cap 3/4 UNC x 1.75
8	6	P0046-010	WASHER, Lock - Hi Collar 5/8
9	6	P0031-10-008	SCREW, Socket Head Cap 5/8 UNC x 2
10	12	P0008-16-000	NUT, Hex Jam 1-1/4
11	1	A43542A	PIN, Roller
12	1	A46800A	PIN, Roller
13	6	P0001-06-003	BOLT, Hex 3/8 UNC x 3/4
14	4	P0001-08-004	BOLT, Hex 1/2 UNC x 1
14	2	A40865P	BRACKET, Roller
16	4	P0065-164	PIN, Roller
17	4	P0065-165	ROLLER
18	2	A40154A	COVER, Roller Bracket
19	8	P0001-06-007	BOLT, Hex 3/8 UNC x 1.75
20	8	P0045-006	WASHER, Lock 3/8

* Refer to this section for parts information.

** Refer to Section 10, Cylinders for parts information.

DRILLING DRIVE THRUST FRAME ASSEMBLY, A43513A
339A LATCHING FRAME WITH SAI MOTOR (SN FA43500F-06 & Before)

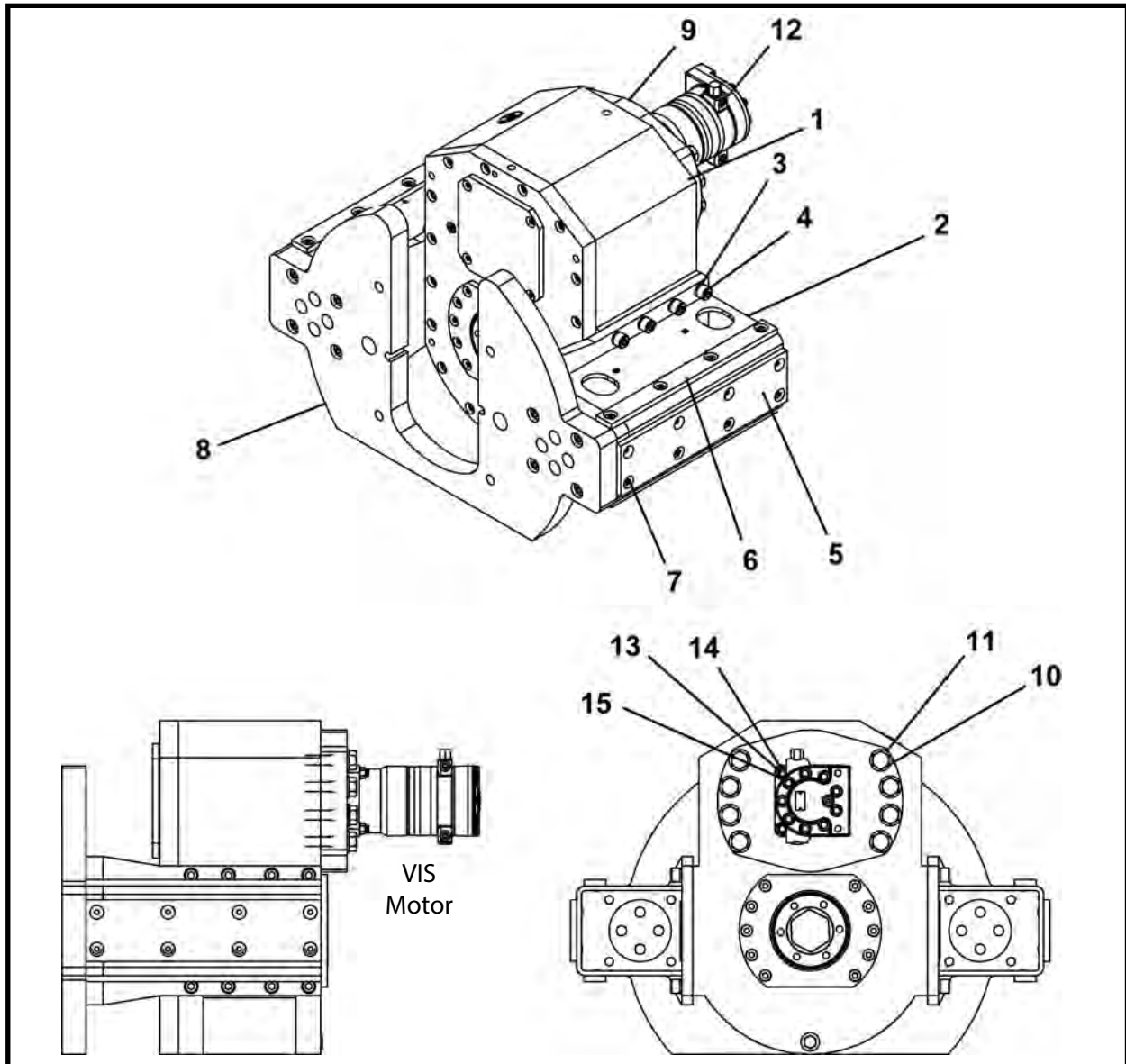


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43513A	DRILLING DRIVE THRUST FRAME ASSEMBLY
1*	1	A40103A	ASSEMBLY, Drilling Drive
2	2	A43509A	CYLINDER THRUST GUIDE
3	24	P0046-012	WASHER, Lock Hi-Collar 3/4
4	24	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
5	2	A40417P	WEAR PAD, Side - Bottom
6	4	A40418P	WEAR PAD, Top
7	40	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 UNC x .75
8	1	A43512P	PLATE, Thrust
9**	1	P0304-160	MOTOR, Drive with Planetary (SAI) (Includes items 9a-9e)
9a	1	P0304-160C	MOTOR, Hydraulic
9b	1	P0304-160F	ASSEMBLY, Planetary
9c	1	P0304-160A	SEAL, Oil (not shown)
9d	1	P0304-160H	RING, Snap (not shown)
9e	1	P0304-160G	ORING, Gearbox To Motor (not shown)
10	8	P0046-014	WASHER, Lock Hi-Collar 7/8
11	8	P0031-14-012	SCREW, Socket Head Cap 7/8 UNC x 3

* Refer to this section for parts information.

** Refer to section 8, Motors for parts information.

DRILLING DRIVE THRUST FRAME ASSEMBLY, A43513A
339A LATCHING FRAME WITH VIS MOTOR (SN FA43500F-06 & Before)

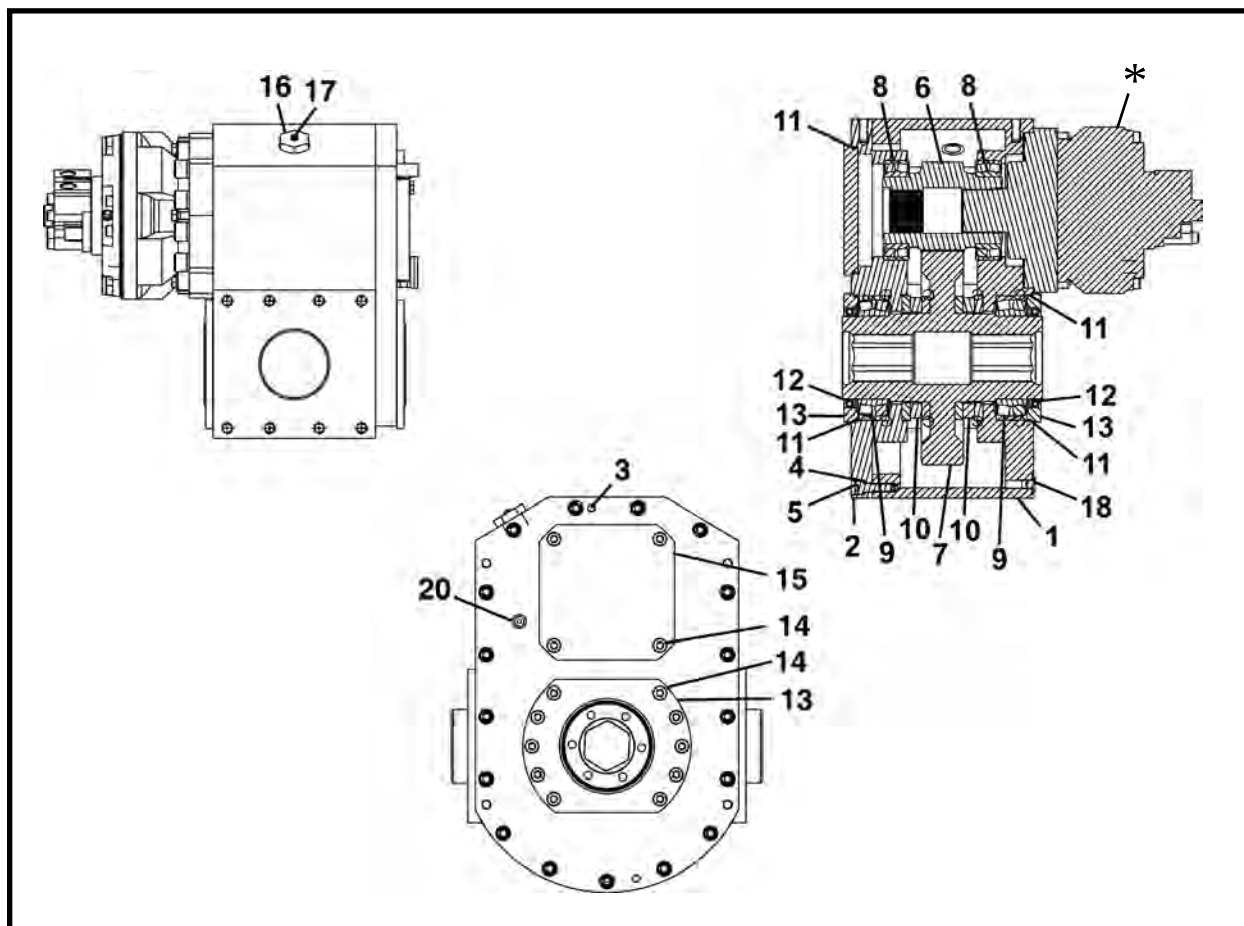


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43513A	DRILLING DRIVE THRUST FRAME ASSEMBLY
1*	1	A40103A	ASSEMBLY, Drilling Drive
2	2	A43509A	CYLINDER THRUST GUIDE
3	24	P0046-012	WASHER, Lock Hi-Collar 3/4
4	24	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
5	2	A40417P	WEAR PAD, Side - Bottom
6	4	A40418P	WEAR PAD, Top
7	32	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 UNC x .75
8	1	A43512P	PLATE, Thrust
9*	1	A43050A	ASSEMBLY, Planetary Gear Box
10	8	P0001-14-014	BOLT, Hex 7/8 UNC x 3.5
11	8	P0040-014	WASHER, Hardened Flat 7/8
12**	1	P0304-169	MOTOR, Drive (VIS)
13	4	P0025-005	STUD
14	4	P0040-008	WASHER, Hardened Flat 1/2
15	4	P0003-08-000	NUT, 1/2

* Refer to this section for parts information.

** Refer to section 8, Motors for parts information.

DRILLING DRIVE ASSEMBLY, A40103A
339A LATCHING FRAME (SN FA43500F-06 & Before)

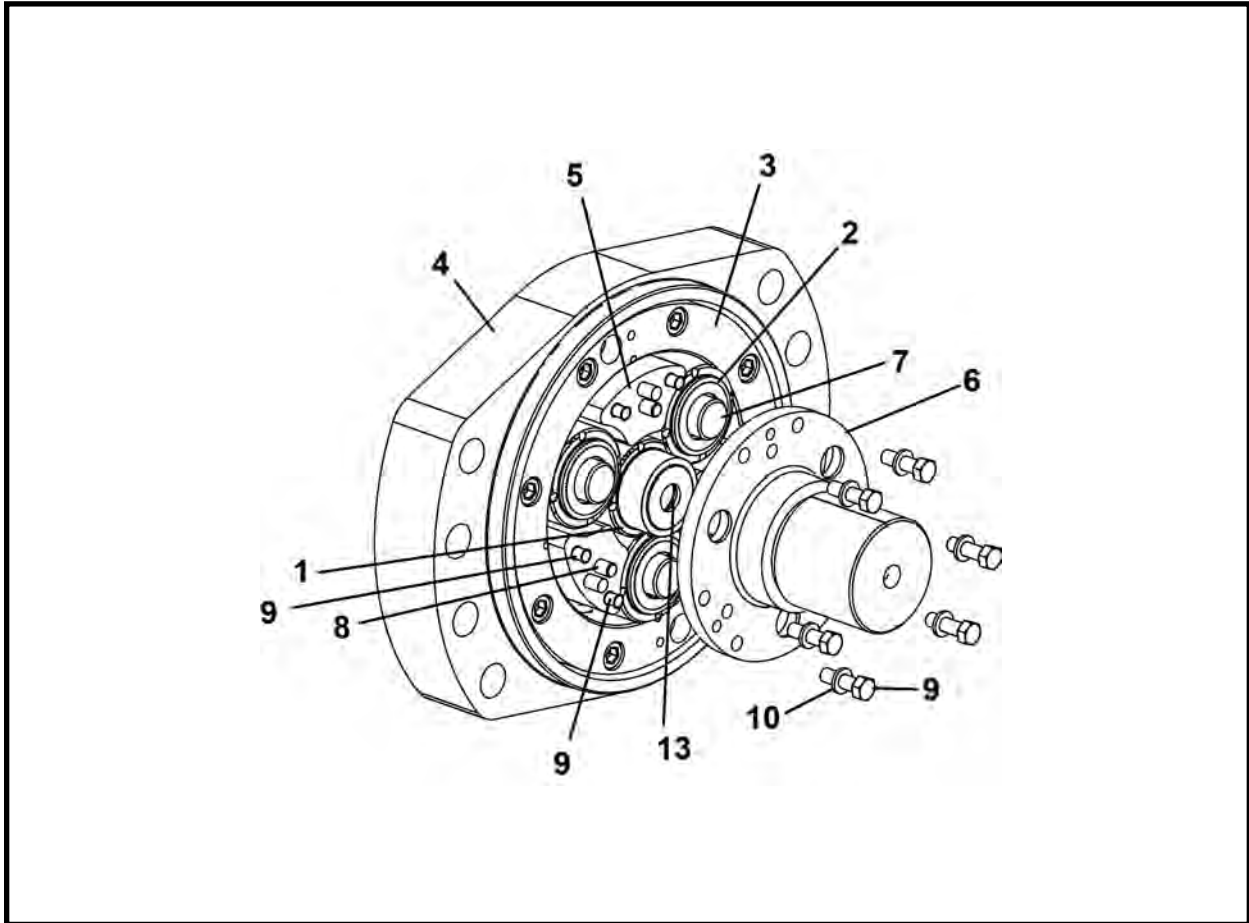


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40103A	DRILLING DRIVE ASSEMBLY
1	1	A40104A	CASE, Gear
2	1	A40105A	COVER, Front Case Gear
3	2	P0037-068	PIN, Dowel
4	17	P0046-010	WASHER, Lock Hi-Collar 5/8
5	17	P0031-10-008	SCREW, Socket Head Cap 5/8 UNC x 2
6	1	A40400P	GEAR, Pinion
7	1	A40401P	GEAR, Drive
8	2	P0065-161	BEARING, Spherical Roller
9	2	P0065-162	BEARING, Spherical Roller
10	2	P0065-160	BEARING, Cylindrical Roller
11	3	P0085-269	ORING
12	2	P0080-027	SEAL, Lip
13	2	A40414P	RETAINER, Seal
14	24	P0030-08-005	SCREW, Flat Head Socket Head Cap 1/2 x 1.25
15	1	A40415P	COVER, Inspection
16	1	A42369P	PLUG, Filler 1-5/8-12 Hollow Hex Oring
17	1	P0063-012	BREATHER
18	1	P0300-163	PLUG, Magnetic Drain
19	7 gal	P0126-014	GEAR LUBE, 630 Mobil Synthetic
20	1	P0300-176	PLUG, 9/16-18 Oring Hollow Hex

* Motor; reference

NOTE: When replacing parts, tighten bolts to allowed load in ft-lbs torque; (1/2"-13 UNC,- 95 ft-lbs.), (5/8"-11 UNC, 190 ft-lbs), (7/8"-9 UNC, 460 ft-lbs).

PLANETARY GEAR BOX ASSEMBLY, A43050A
339A LATCHING FRAME WITH VIS MOTOR (SN FA43500F-06 & Before)



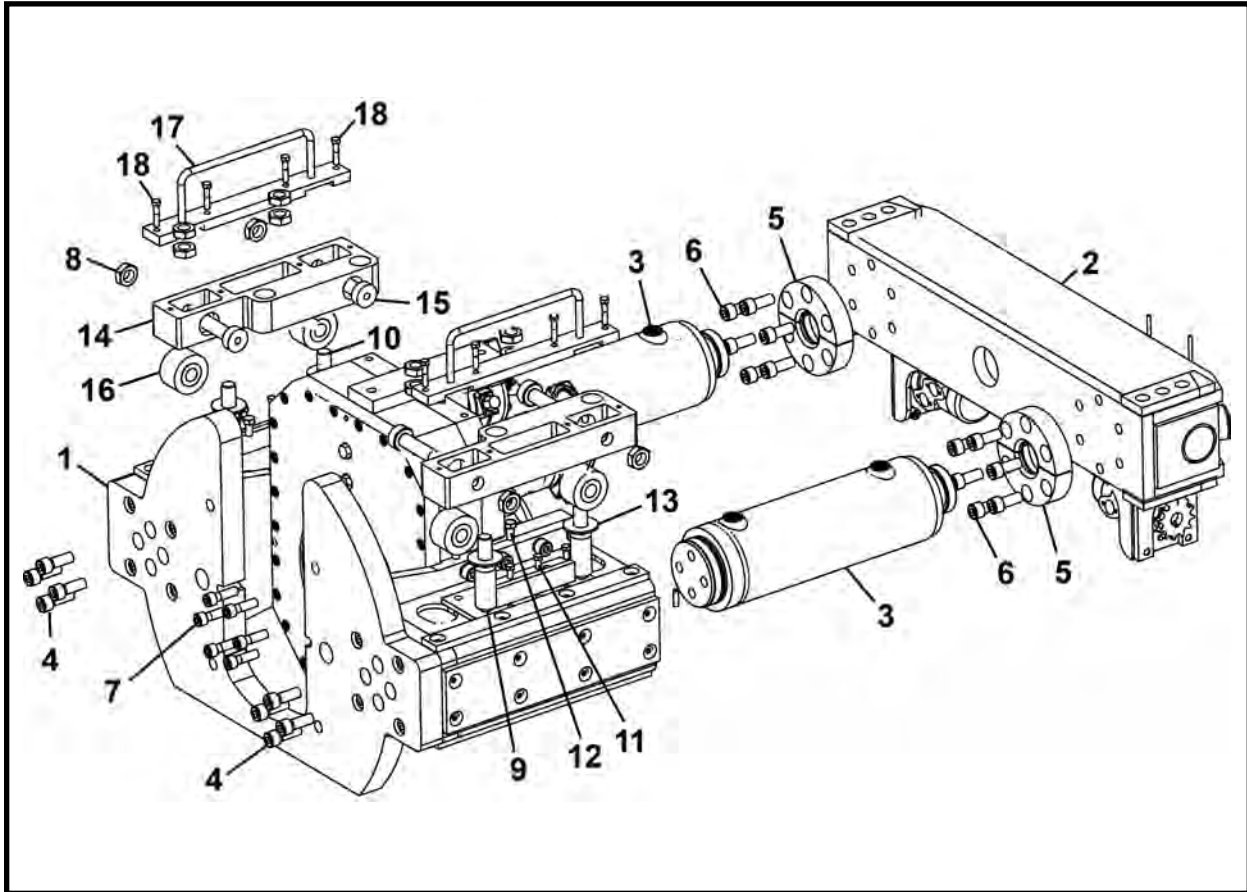
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43050A	PLANETARY GEAR BOX ASSEMBLY
1	1	A43051P	GEAR, Sun
2	3	A43052P	GEAR, Planet
3	1	A43053P	GEAR, Ring
4	1	A43054P	HOUSING, Main
5	1	A43055P	CARRIER, Planet
6	1	A43056P	PLATE
7	3	A43057P	STUD
8	5	-	PIN, Dowel
9	6	-	SCREW, Hex Head Zinc (Tighten to 28 ft-lb torque)
10	6	-	WASHER, Lock Zinc
11	75	-	ROLLER, Needle
12	8	-	SCREW, Socket Head Cap (Tighten to 70 ft-lb torque)
13	1	-	SNAP RING
14	1	-	WSHER, Thrust Bronze
15	6	-	WASHER, Thrust

Note:

1. All bolts must have threads coated with Loctite® #680.
2. Use Loctite® #58775 on all sealing surfaces.

DRILLING DRIVE THRUST & LATCHING FRAME, A43582A

339A LATCHING FRAME (SN FA43500F-07 & After)

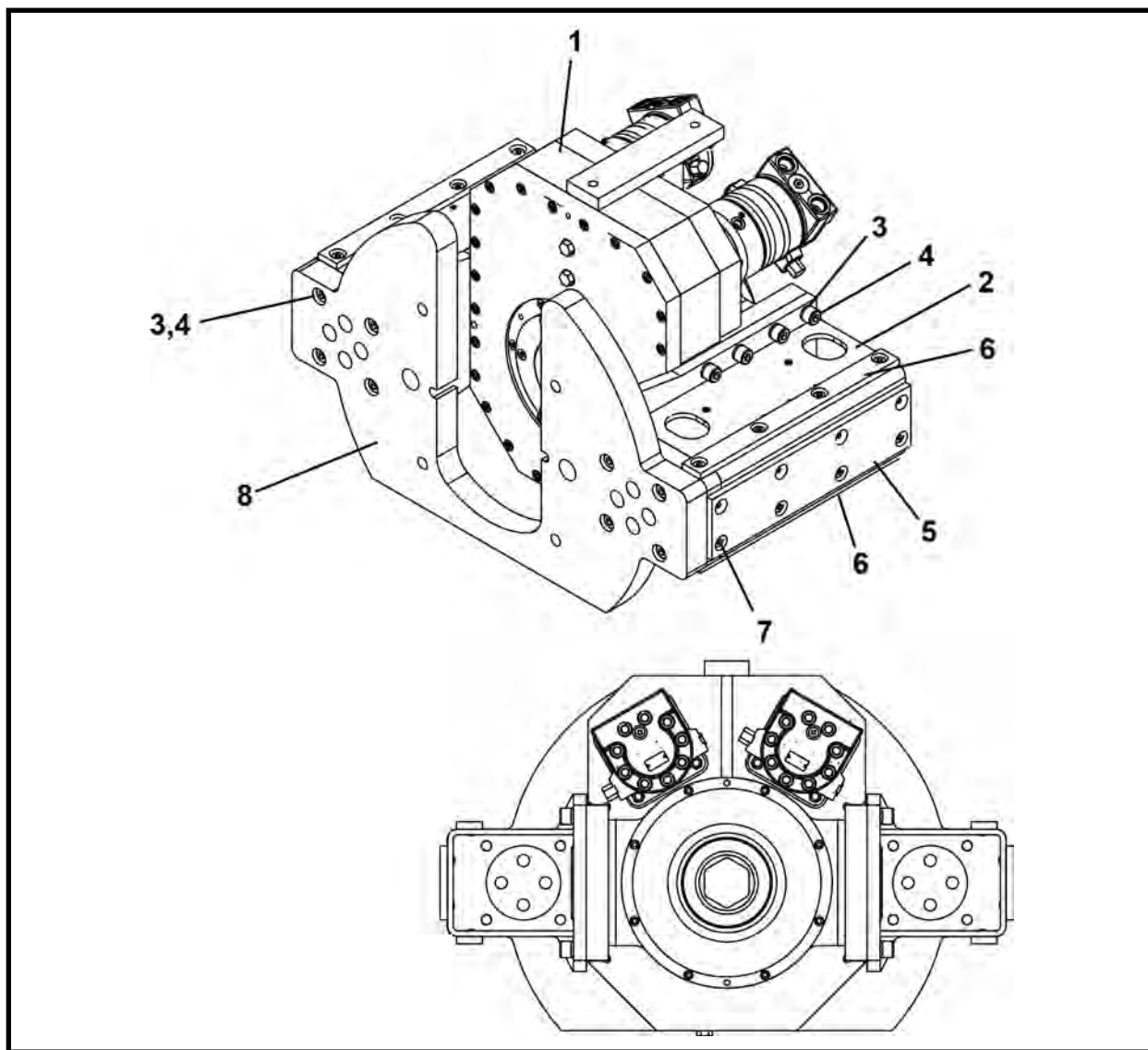


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43582A	DRILLING DRIVE THRUST & LATCHING FRAME
1*	1	A43581A	ASSEMBLY, Drilling Drive Thrust Frame
2*	1	A43505A	ASSEMBLY, Hydraulic Latching
3**	2	A40145A	ASSEMBLY, Cylinder
4	8	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
5	2	A40457P	RETAINER, Cylinder
6	12	P0031-12-007	SCREW, Socket Head Cap 3/4 UNC x 1.75
7	6	P0031-10-008	SCREW, Socket Head Cap 5/8 UNC x 2
8	12	P0008-16-000	NUT, Hex Jam 1-1/4
9	1	A43542A	PIN, Roller
10	1	A46800A	PIN, Roller
11	6	P0001-06-003	BOLT, Hex 3/8 UNC x 3/4
12	4	P0001-08-004	BOLT, Hex 1/2 UNC x 1
13	4	P0040-016	WASHER, Hardened Flat 1
14	2	A40865P	BRACKET, Roller
15	4	P0065-164	PIN, Roller
16	4	P0065-165	ROLLER
17	2	A40154A	COVER, Roller Bracket
18	8	P0001-06-007	BOLT, Hex 3/8 UNC x 1.75

* Refer to this section for parts information.

** Refer to Section 10, Cylinders for parts information.

DRILLING DRIVE ASSEMBLY, A43581A
339A LATCHING FRAME (SN FA43500F-07 & After)



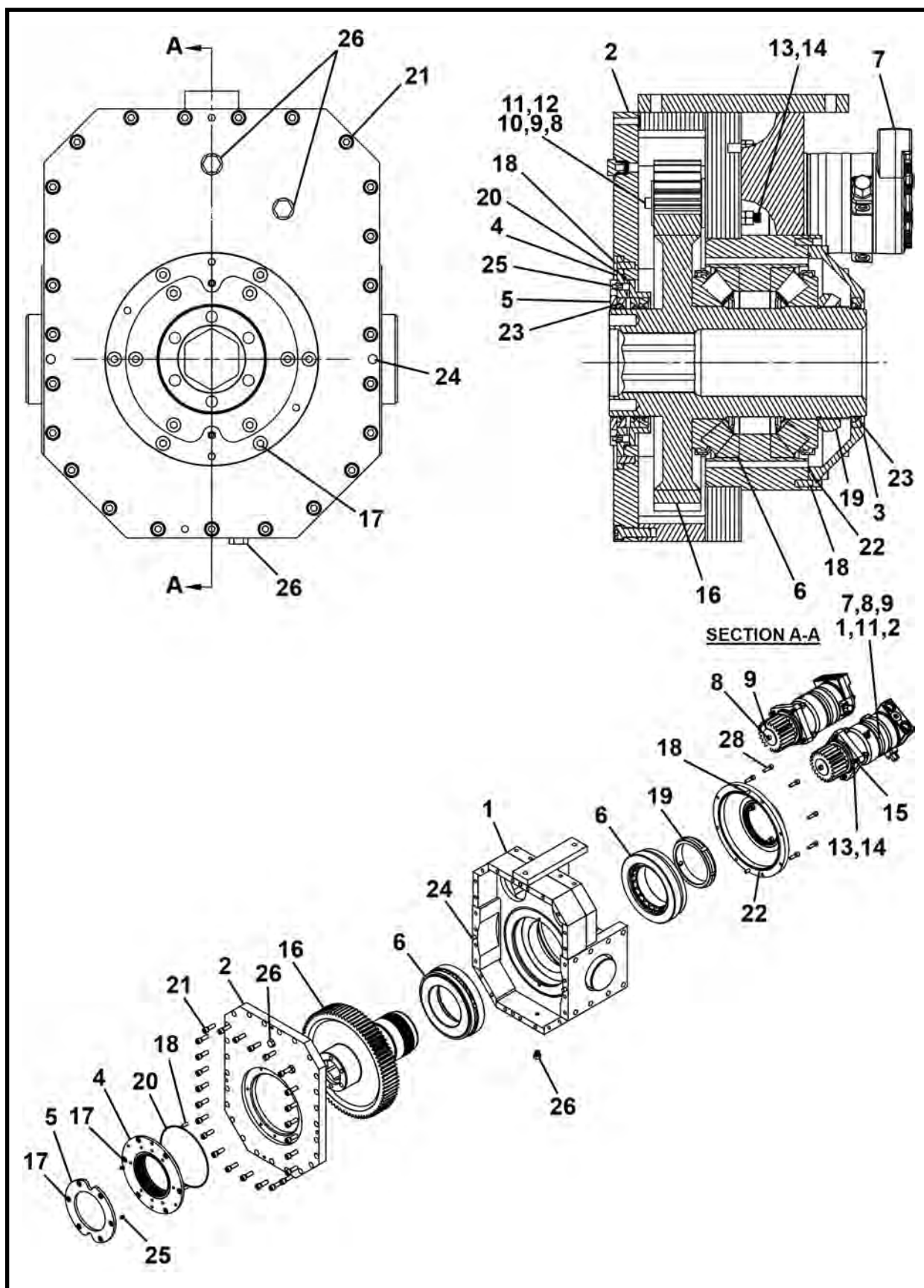
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43581A	DRILLING DRIVE ASSEMBLY
1*	1	A47361A	ASSEMBLY, Gearbox
2	2	A43509A	GUIDE, Cylinder Thrust
3	24	P0046-012	WASHER, Hi-Collar Lock 3/4
4	24	P0031-12-008	SCREW, Cap 3/4 x 2
5	2	A40417P	PAD, Wear, Side/Bottom
6	4	A40418P	PAD, Top Wear
7	32	P0030-06-003	SCREW, Flat Head Socket Head 3/8 x .75
8	1	A43512P	PLATE, Thrust

* Refer to this section for parts information.

NOTE:

1. Lubricate all bolt threads before installing.
2. When replacing parts, tighten bolts to allowed load in ft-lbs torque; (3/8"-16 UNC,- 38 ft-lbs.).

339A LATCHING FRAME (SN FA43500F-07 & After)



GEARBOX ASSEMBLY, A47361A
339A LATCHING FRAME (SN FA43500F-07 & After)

ITEM	QTY	PART NO.	DESCRIPTION
0		A47361A	GEARBOX ASSEMBLY
1	1	A47362A	CASE
2	1	A47363P	COVER
3	1	A47324P	RETAINER, Rear
4	1	A47325P	RETAINER, Front
5	1	A47334P	COVER, Seals
6	2	P0065-213	BEARING, Thrust Block
7*	2	P0304-335	MOTOR, VIS 40, 2SPD
8	2	P0031-06-006	SCREW, Socket Head Cap 3/8 UNC x 1
9	2	A43863P	WASHER, Pinion
10	2	A46694P	SPACER, Pinion
11	2	A46695P	SPACER, Shaft
12	2	A42880P	PINION
13	8	P0025-005A	STUD
14	16	P0003-08-000	NUT, 1/2 UNC
15	2	P0085-249	ORING
16	1	A47372P	SHAFT, Geared
17	12	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 x .75
18	4	P0037-048	PIN, Dowel
19	1	P0065-213A	LOCKNUT, Thrust Bearing
20	1	P0085-270	ORING
21	25	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
22	1	P0085-278	ORING
23	4	P0080-039	SEAL, Small Borer
24	2	P0037-064	PIN, Dowel
25	2	P0063-004	FITTING, Grease 1/8-NPT
26	3	P0300-193	PLUG, 08MB-PLUG
27	13 QT	P0126-014	LUBE, Mobilgear 630 Gear
28	8	P0031-06-005	SCREW, Socket Head Cap 3/8 UNC x 1.25

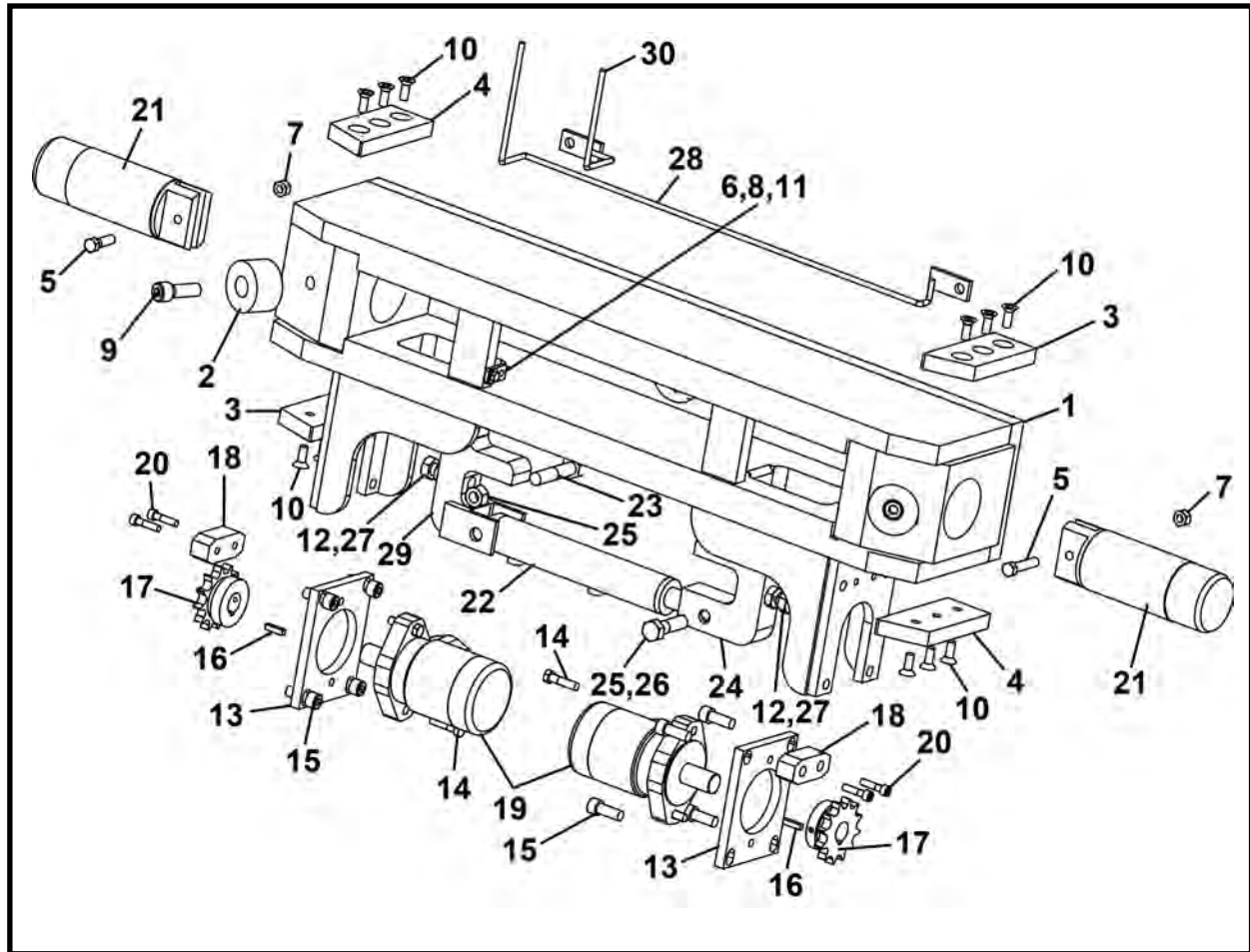
* Refer to setion 8, Motors for parts information.

QT - Quarts

NOTE:

1. Use gasket seal P0029-010 to seal between items 1 and 2.
2. Lubricate all bolt threads before installing.
3. When replacing parts, tighten bolts to allowed load in ft-lbs torque; (3/8"-16 UNC - 38 ft-lbs.), (1/2-13 UNC - 93 ft-lbs.).
4. Torque lock nut to 100 ft-lbs. Torque lock nut set screws to 26 ft-lbs.

HYDRAULIC LATCHING ASSEMBLY, A43505A **339A LATCHING FRAME**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43505A	HYDRAULIC LATCHING ASSEMBLY
1	1	A43552A	FRAME, Staging
2	2	A40859P	BUMPER
3	2	A42412P	WEAR PLATE 2
4	2	A42429P	WEAR PLATE 1
5	2	P0001-07-009	BOLT, Hex 7/16 UNC x 2.25
6	1	P0040-004	WASHER, Hardened Flat 1/4
7	2	P0003-07-000	NUT, Hex 7/16 UNC
8	1	P0001-04-002	BOLT, Hex 1/4 UNC x .5
9	2	P0031-10-007	SCREW, Socket Head Cap 5/8 UNC x 1.75
10	12	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
11	1	A43586P	GUIDE, Latching Flag
12	2	P0007-10-000	NUT, Jam 5/8 UNC
13	2	A42426P	PLATE, Motor Mounting
14	4	P0001-06-006	BOLT, Hex 3/8 UNC x 1.5
15	8	P0031-08-005	SCREW, Socket Head Cap 1/2 UNC x 1.25
16	2	P0047-003	KEY
17	2	P0071-001	SPROCKET
18	2	A40735P	CHAIN GUIDE
19*	2	P0304-161	MOTOR

HYDRAULIC LATCHING ASSEMBLY, A43505A
339A LATCHING FRAME

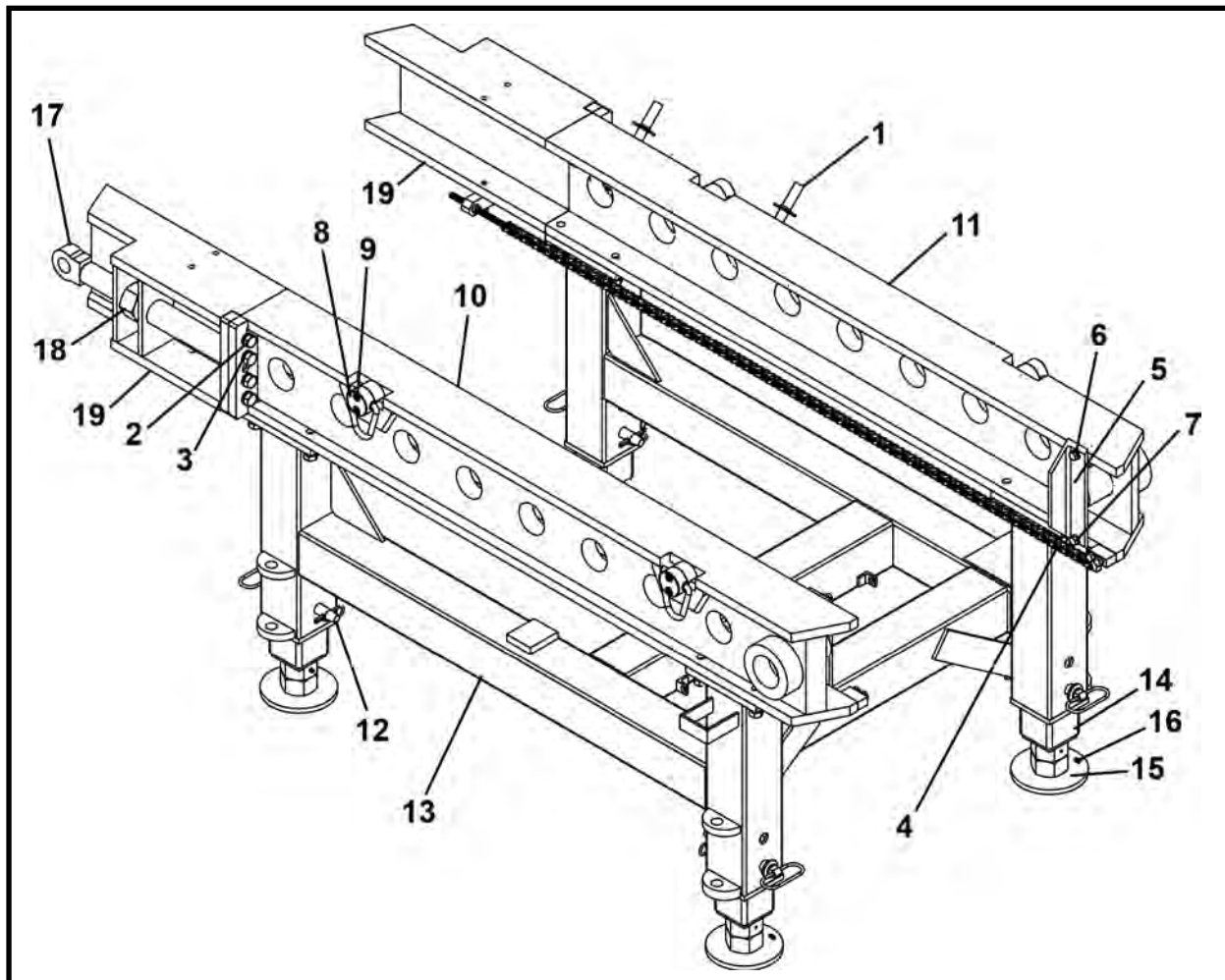
ITEM	QTY	PART NO.	DESCRIPTION
20	4	P0031-05-005	SCREW, Socket Head Cap 5/16 UNC x 1.25
21	2	A40854P	PIN
22**	1	P0307-202	CYLINDER
23	1	P0001-10-014	BOLT, Hex 5/8 UNC x 3.5
24	1	A43548P	LINK, Right
25	2	P0013-10-000	NUT, Lock 5/8 UNC
26	1	P0001-10-009	BOLT, Hex 5/8 UNC x 2.25
27	2	P0001-10-007	BOLT, Hex 5/8 UNC x 1.75
28	1	A43577A	INDICATOR, Latching - Long
29	1	A43551A	LINK, Left
30	1	A43585A	INDICATOR, Latching - Short

* Refer to section 8, Motors for parts information.

** Refer to section 10, Cylinders for parts information.

LI - Linear Inch

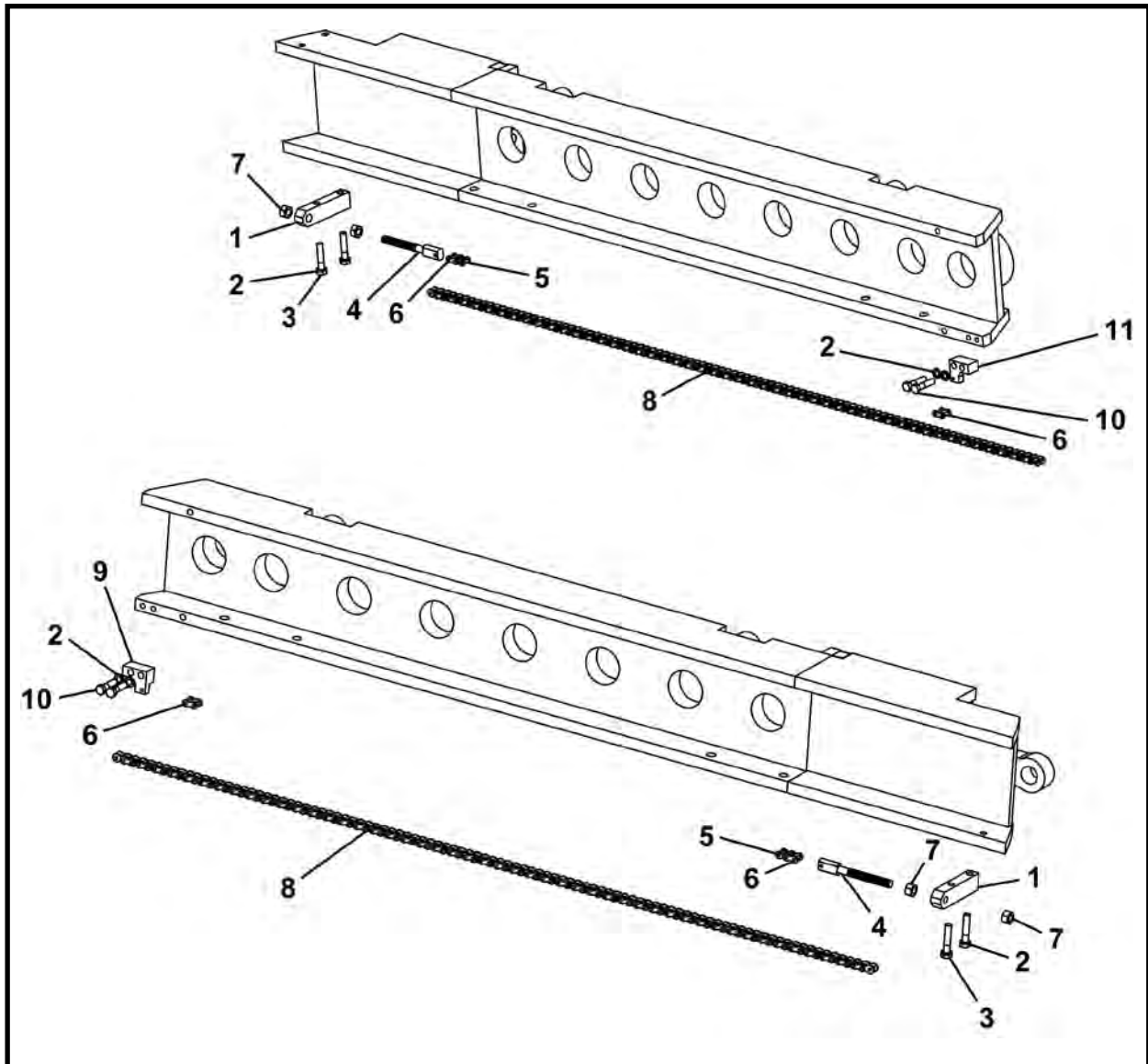
ADJUSTABLE LATCHING BASE ASSEMBLY, A43504A
339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43504A	ADJUSTABLE LATCHING BASE ASSEMBLY
1	2	A42505A	PILOT TUBE HOLDER
2	24	P0001-12-008	BOLT, Hex 3/4 UNC x 2
3	24	P0045-012	WASHER, Lock 3/4
4*	1	A40745A	ASSEMBLY, Travel Motor
5	2	A42507A	STOP, Staging Assembly
6	4	P0001-08-004	BOLT, Hex 1/2 UNC x 1
7	4	P0045-008	WASHER, Lock 1/2
8	4	P0091-010	LIFT RING, Pivot
9	8	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.50
10	1	A46670A	WELDMENT, Side
11	1	A46671A	WELDMENT, Side
12	4	P0090-013	PIN, Hinge
13	1	A46676A	BASE, Lower
14	4	A40111A	LEG
15	4	A40112A	SCREW, Jack
16	4	P0063-001	FITTING, Grease
17	2	A40143A	SCREW, Tension
18	2	P0005-16-000	NUT, 1
19	2	A46658A	WELDMENT, Frame End

* Refer to this section for parts information.

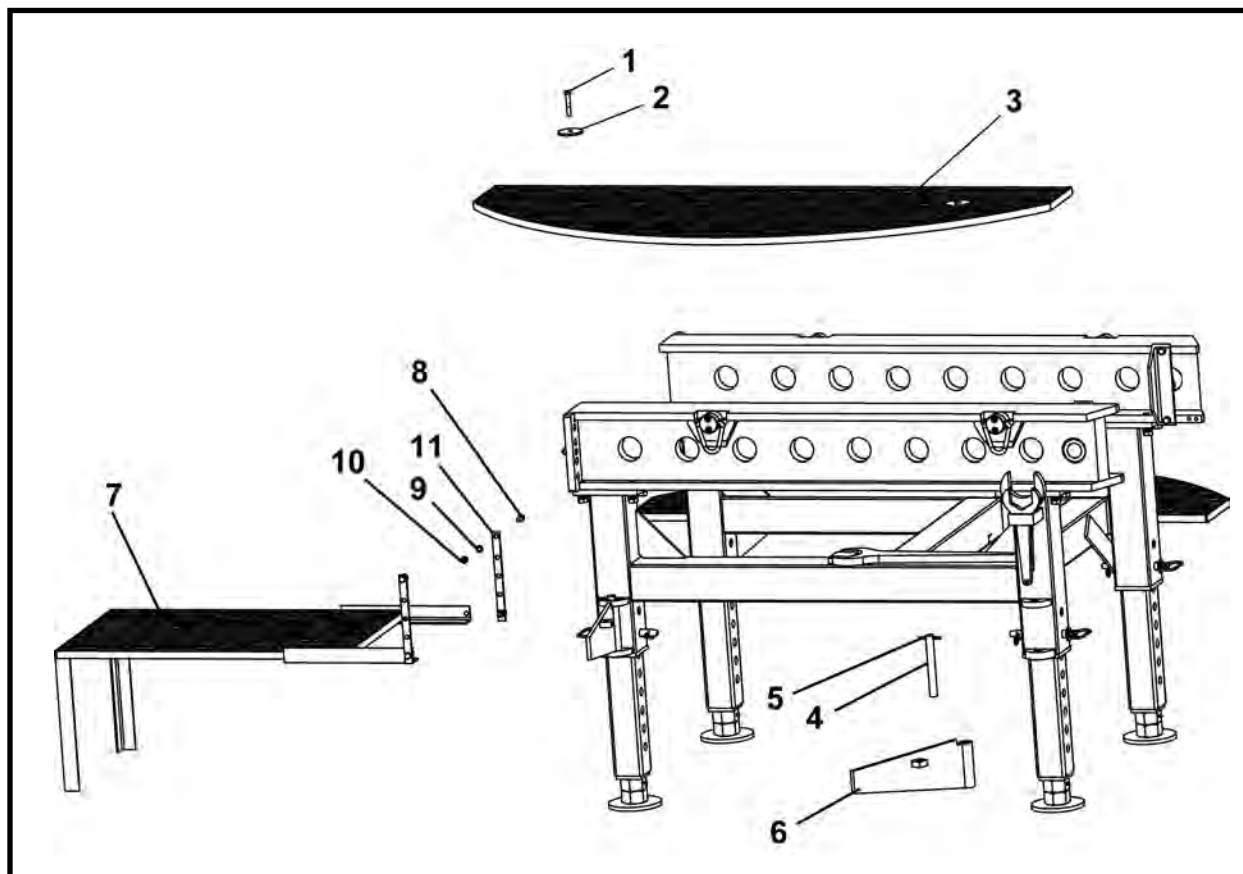
TRAVEL MOTOR ASSEMBLY, A40745A
339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40745A	TRAVEL MOTOR ASSEMBLY
1	2	A40737P	CHAIN TENSIONER ADJUSTMENT
2	8	P0045-008	WASHER, Lock 1/2
3	4	P0001-08-010	BOLT, Hex 1/2 UNC x 2.50
4	2	A44700P	ADJUSTABLE CHAIN TENSIONER
5	2	P0078-005	LINK, Repair
6	4	P0078-008	LINK, Connector
7	4	P0007-10-000	NUT, Jam 5/8
8	156 LI	P0078-002	CHAIN, Roller
9	1	A42368P	ANCHOR, Chain Tensioner, Left
10	4	P0001-08-008	BOLT, Hex 1/2 UNC x 2
11	1	A40736P	ANCHOR, Chain Tensioner, Right

LI - Linear Inch

OPERATOR PLATFORM ASSEMBLY, A43530A
339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43530A	OPERATOR PLATFORM ASSEMBLY
1	4	P0001-08-112	BOLT, Hex 1/2 UNC x 3
2	4	003640P00	WASHER, Steering Link
3	2	A43533A	CATWALK, Side
4	4	A42485P	PIN, Hinge
5	4	P0049-125	PIN, Roll 1/4 x 3
6	4	A42488A	HINGE, Catwalk
7	1	A42501A	CATWALK, Center
8	4	P0001-08-004	BOLT, Hex 1/2 UNC x 1
9	4	P0045-008	WASHER, Lock 1/2
10	4	P0003-01-000	NUT
11	2	A40494P	STRAP, Adjustment

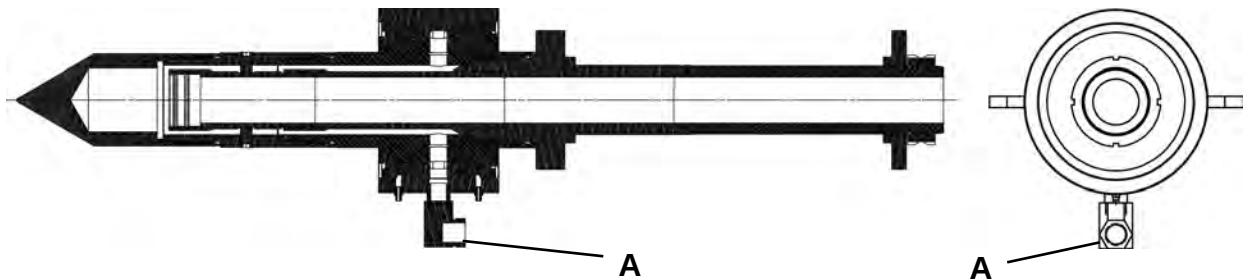
DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F

There are 3 versions of the FA40235F Drive Adapter & Swivel Assembly.

Use the illustrations below to identify your drive adapter & swivel assembly version. The parts breakdown for the 3 versions are located on pages 3-58 through 3-62.

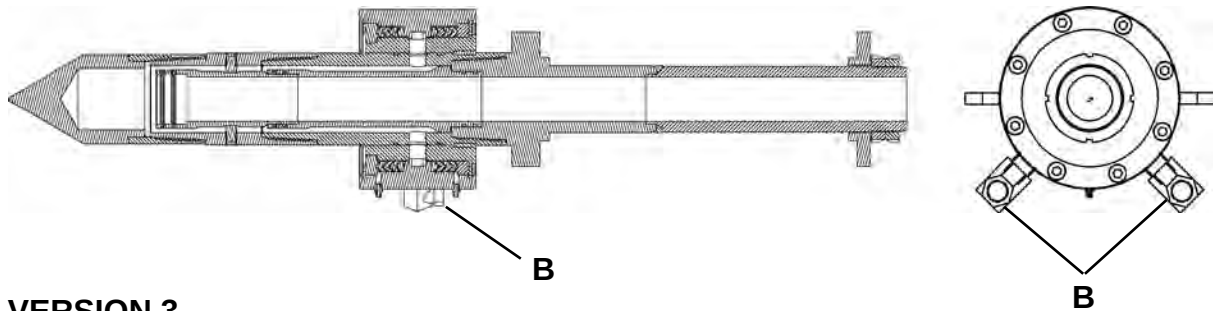
• VERSION 1

The swivel assembly has one lubrication port (A) as shown. The parts breakdown is located on pages 3-58 and 3-59.



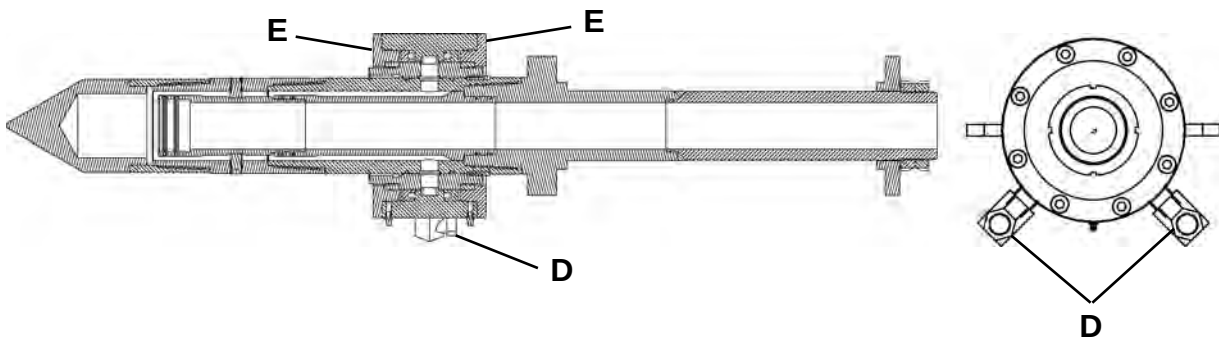
• VERSION 2

The swivel assembly has two lubrication ports (B). The parts breakdown is located on pages 3-60 and 3-61.



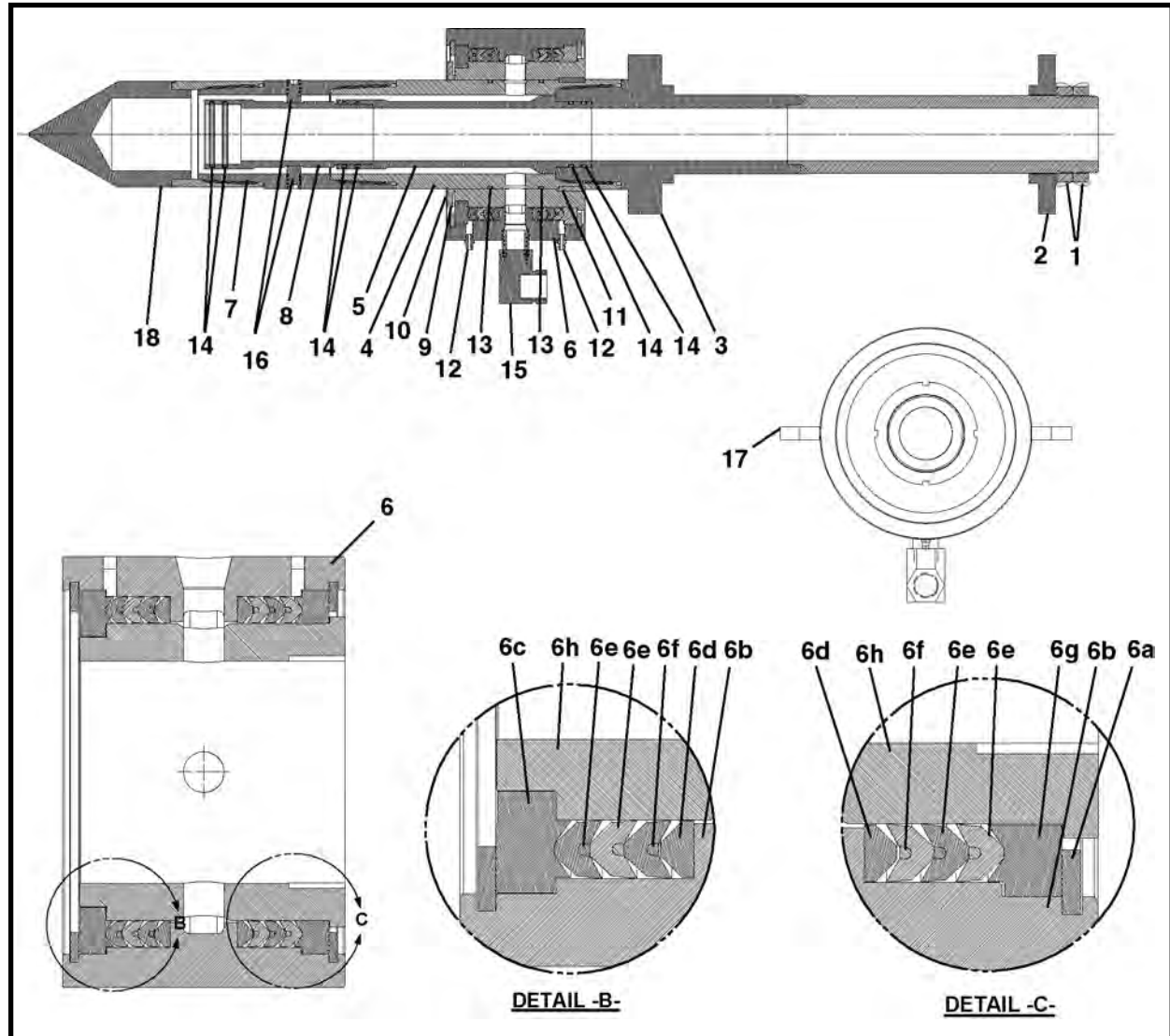
• VERSION 3

The swivel assembly has two lubrication ports (D) with an "A" stamped on top swivel plates (E) as shown. The parts breakdown is located on page 3-62.



DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F

VERSION 1 IDENTIFICATION: ONE LUBRICATION PORT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
1	2	P0065-170	NUT, Lock
2	1	A40556P	WASHER, Fluid Swivel
3	1	A40236A	SWIVEL, Drive Adapter
4	1	A40542P	TUBE, Outer - Swivel Mount
5	1	A40543P	TUBE, Inner - Swivel Mount
6	1	P0119-001	ASSEMBLY, Swivel (Includes items 6a - 6h)
6a	2	P0119-001B	RING, Snap
6b	1	NSS	HOUSING, Swivel
6c	1	P0119-001D	ADAPTER, Lower Packing
6d	2	P0119-001F	ADAPTER, Male
6e	4	P0119-001G	PACKING
6f	2	P0119-001K	PACKING
6g	1	P0119-001H	ADAPTER, Upper Packing
6h	1	P0119-001I	SPINDLE
7	1	A40544P	SUB SAVER
8	1	A40545P	TUBE, Inner - Sub Saver

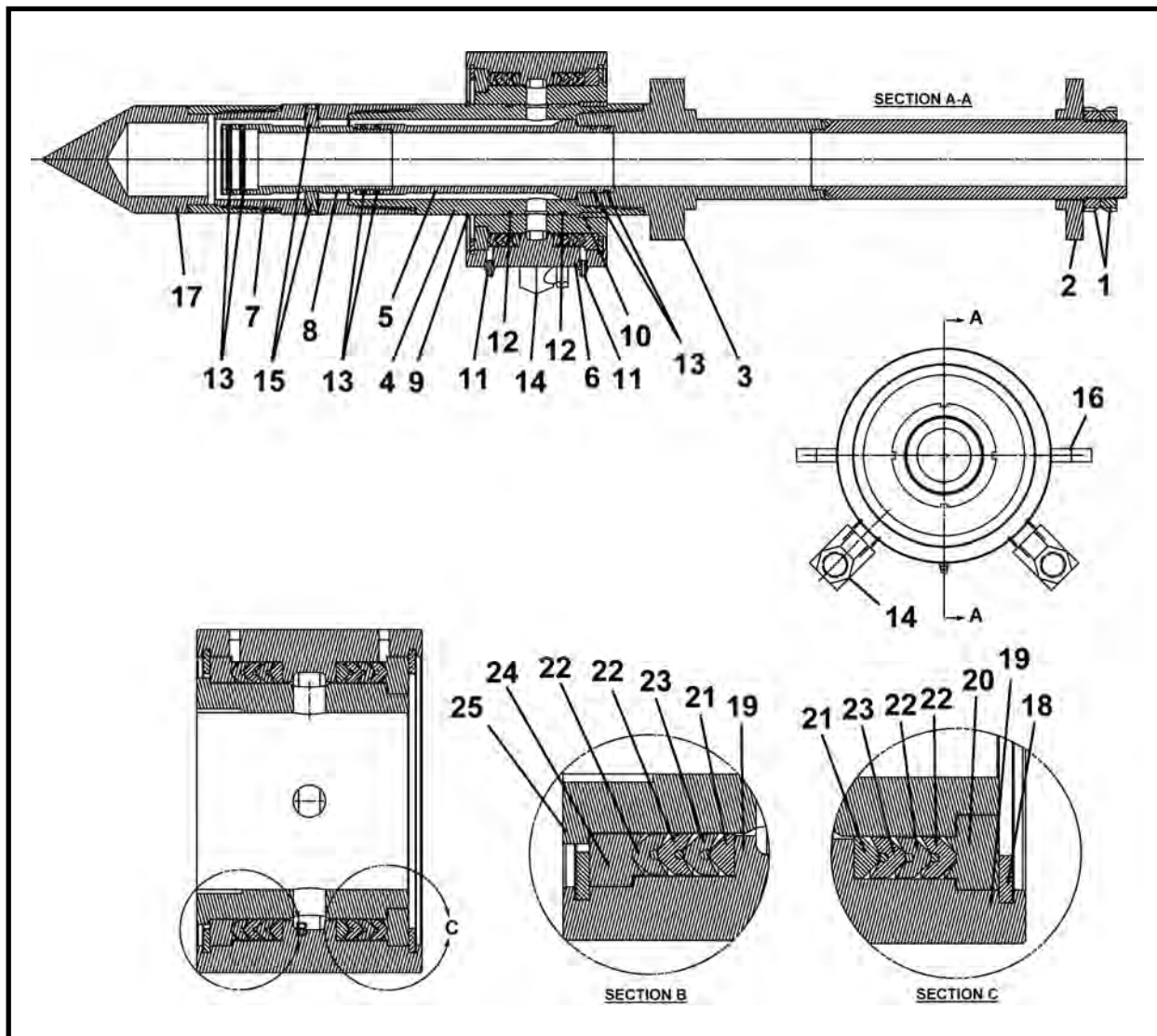
DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F**VERSION 1 IDENTIFICATION: ONE LUBRICATION PORT**

ITEM	QTY	PART NO.	DESCRIPTION
9	1	A40548P	RING, Retaining Swivel Mount
10	1	P0077-049	RING, Spiral External Snap
11	2	P0047-002	KEY
12	2	P0063-001	GREASE FITTING 1/4
13	2	P0085-241	ORING
14	6	P0085-228	ORING
15	1	P0300-032	FITTING, 90 Degree
16	2	P0033-08-016	SCREW, Set 1/2 UNC x 1
17	2	NSS	BAR, Swivel Retainer
18	1	A40253A	ALIGNMENT GUIDE

NSS - Not Sold Separately

NOTE: Lock pilot tube joints with Baker Lok, part number P0310-779 (on male threads only). DO NOT lock pilot tube to Alignment Guide, item 18.

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F
VERSION 2 IDENTIFICATION: TWO LUBRICATION PORTS



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
1	2	P0065-170	NUT, Lock
2	1	A40556P	WASHER, Fluid Swivel
3	1	A40236A	SWIVEL, Drive Adapter
4	1	A40542P	TUBE, Outer - Swivel Mount
5	1	A40543P	TUBE, Inner - Swivel Mount
6	1	P0119-002	ASSEMBLY, Swivel (Includes items 18-25)
7	1	A40544P	SUB SAVER
8	1	A40545P	TUBE, Inner - Sub Saver
9	1	P0077-049	RING, Spiral External Snap
10	2	P0047-002	KEY
11	2	P0063-001	GREASE FITTING 1/4
12	2	P0085-241	ORING
13	6	P0085-228	ORING
14	2	P0300-034	FITTING, 90 Degree
15	2	P0033-08-016	SCREW, Set 1/2 UNC x 1
16	2	NSS	BAR, Swivel Retainer

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F
VERSION 2 IDENTIFICATION: TWO LUBRICATION PORTS

ITEM	QTY	PART NO.	DESCRIPTION
17	1	A40253A	ALIGNMENT GUIDE
18*	2	P0119-001B	RING, Snap
19*	1	NSS	HOUSING, Swivel
20*	1	P0119-001D	ADAPTER, Lower Packing
21*	2	P0119-001F	ADAPTER, Male
22*	4	P0119-001G	PACKING
23*	2	P0119-001K	PACKING
24*	1	P0119-001H	ADAPTER, Upper Packing
25*	1	P0119-001I	SPINDLE

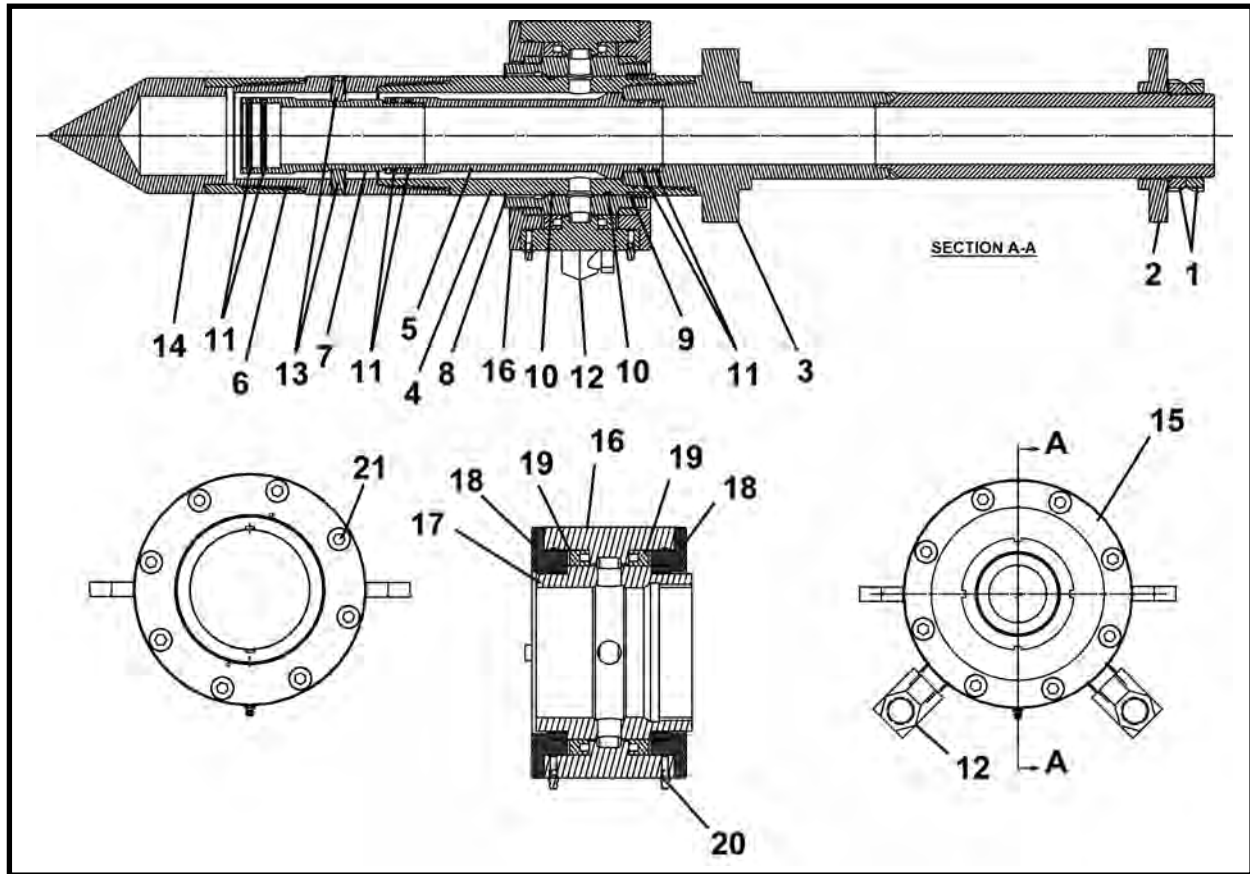
* Included in item 6, Swivel Assembly.

NSS - Not Sold Separately

NOTE: Lock pilot tube joints with Baker Lok, part number P0310-779 (on male threads only). DO NOT lock pilot tube to Alignment Guide, item 17.

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F

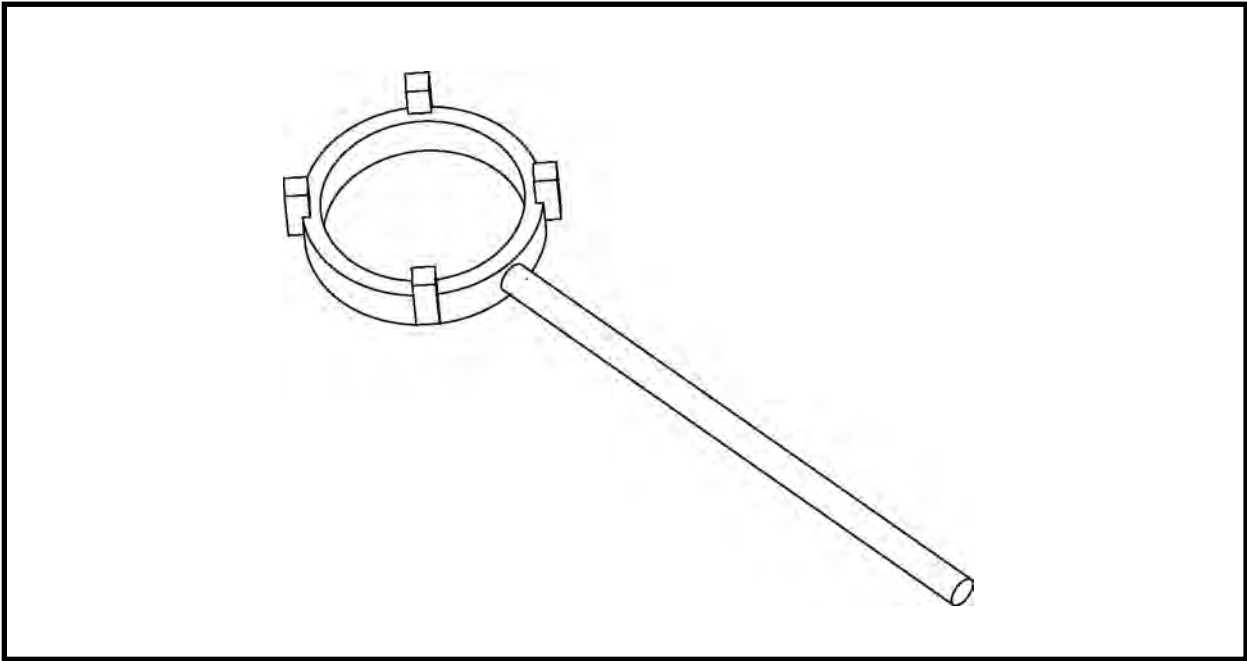
VERSION 3 IDENTIFICATION: TWO LUBRICATION PORTS WITH "A" STAMPED ON TOP SWIVEL PLATES



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
1	2	P0065-170	NUT, Lock
2	1	A40556P	WASHER, Fluid Swivel
3	1	A40236A	SWIVEL, Drive Adapter
4	1	A40542P	TUBE, Outer - Swivel Mount
5	1	A40543P	TUBE, Inner - Swivel Mount
6	1	A40544P	SUB SAVER
7	1	A40545P	TUBE, Inner - Sub Saver
8	1	P0077-049	RING, Spiral External Snap
9	2	P0047-002	KEY
10	2	P0085-241	ORING
11	6	P0085-228	ORING
12	2	P0300-198	FITTING, 12MB-08FPX90
13	2	P0033-08-014	SCREW, Set 1/2 UNC x .875
14	1	A40581P	ALIGNMENT GUIDE
15	1	A41547A	ASSEMBLY, Fluid Swivel (Includes items 16 - 21)
16	1	A41546A	WELDMENT, Outer Swivel
17	1	A41544P	SWIVEL, Inner
18	2	A41543A	ASSEMBLY, Plate-Swivel
19	2	P0065-211	SEAL, Rod
20	2	P0063-001	FITTING, Grease
21	16	P0030-06-003	SCREW, Flat Head Cap 3/8 UNC x .75

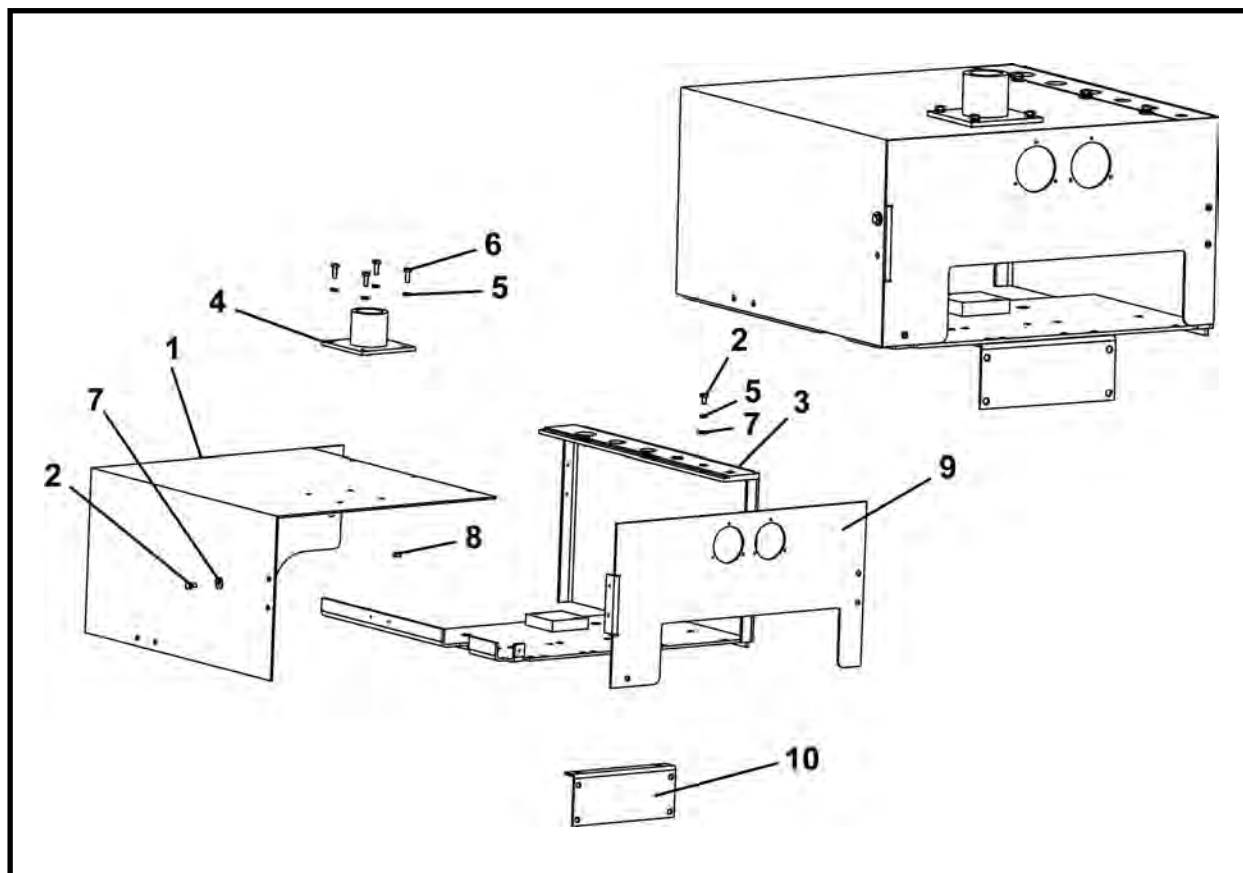
NOTE: Lock pilot tube joints with Baker Lok, part number P0310-779 (on male threads only). DO NOT lock pilot tube to Alignment Guide, item 14.

SPINDLE NUT WRENCH, A40740A
LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40740A	WRENCH, Spindle Nut

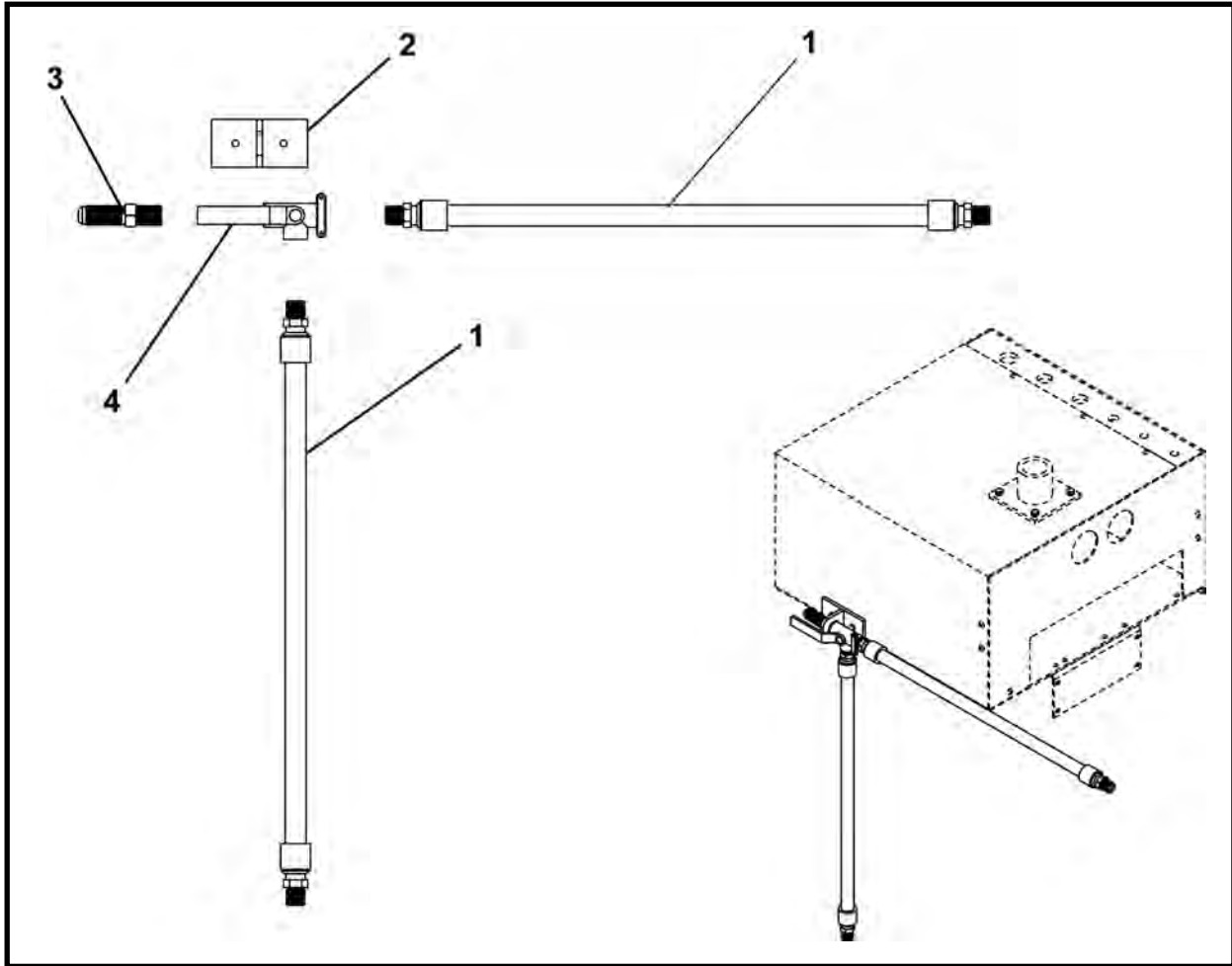
VALVE COVER ASSEMBLY, A42481A
339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42481A	VALVE COVER ASSEMBLY
1	1	A42497P	COVER, Top Valve
2	12	P0001-04-002	BOLT, Hex 1/4 UNC x .5
3	1	A42446A	WELDMENT, Valve Mounting Plate
4	1	A42030A	MOUNT, Bottom Monitor
5	7	P0045-004	WASHER, Lock 1/4
6	4	P0001-04-003	BOLT, Hex 1/4 UNC x .75
7	12	P0040-004	WASHER, Hardened Flat 1/4
8	4	P0003-04-000	NUT, 1/4
9	1	A42493P	COVER, Front Valve
10	1	A42471P	MOUNT, Pressure Reducing Valve

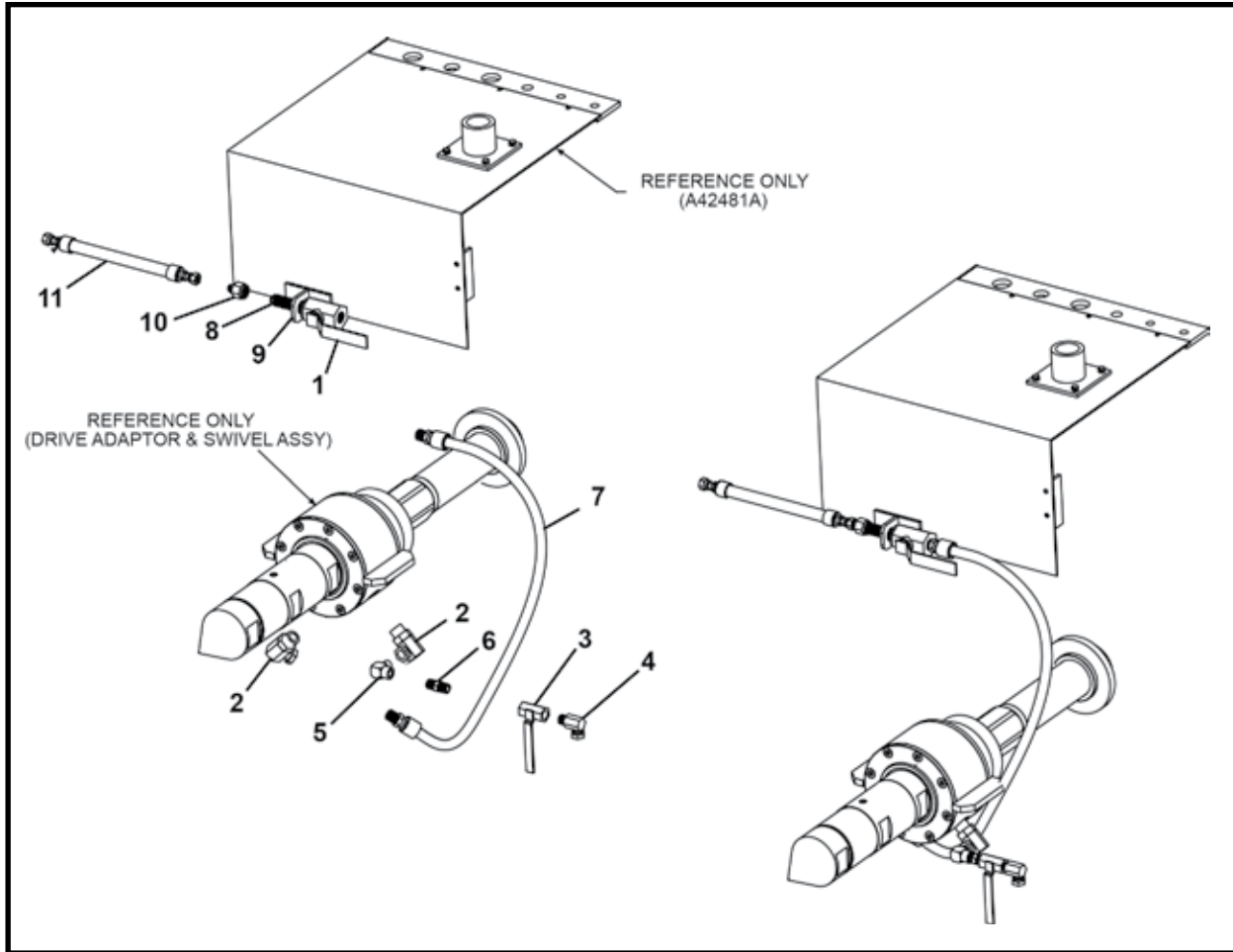
NOTES

**FLUID CONTROL ASSEMBLY WITH 3 WAY BALL VALVE, A43570A
LATCHING FRAME**



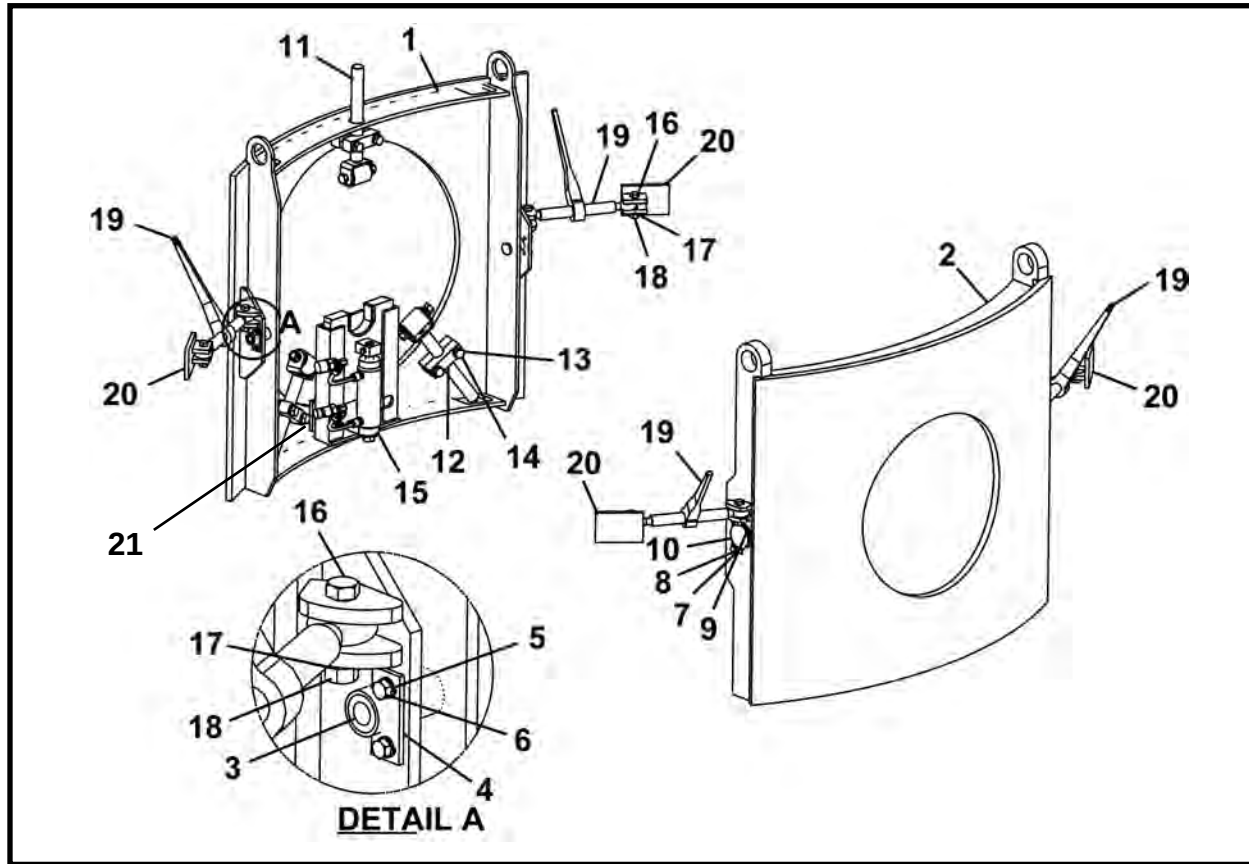
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43570A	ASSEMBLY, Fluid Control
1	2	A10461A-036	HOSE ASSEMBLY, 1/2 x 36
2	1	A43569A	BRACKET, Fluid Control
3	1	P0300-567	FITTING, 10MJ-8MPKBHD
4	1	P0302-512	VALVE, 3 Way Ball

FLUID CONTROL ASSEMBLY WITH 2 WAY BALL VALVE, A43570A **LATCHING FRAME**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43570A	ASSEMBLY, Fluid Control
1	1	P0302-325	VALVE, 2 Way Ball
2	2	P0300-198	FITTING, 12MB-08FPX90
3	1	P0302-507	VALVE, Ball
4	1	P0300-160	FITTING, 06MP-06FPX90
5	1	P0300-017	FITTING, 08MP-06FP90
6	1	P0300-570	FITTING, 6MP-6MP
7	1	A10320A-039	HOSE ASSEMBLY, 1/2 x 39
8	1	P0300-567	FITTING, 10MJ-8MPKBHD
9	1	A43569A	BRACKET, Fluid Control
10	1	P0300-147	FITTING, 10FJ-06MJ
11	1	A10311A-012	HOSE ASSEMBLY, 3/8 x 12

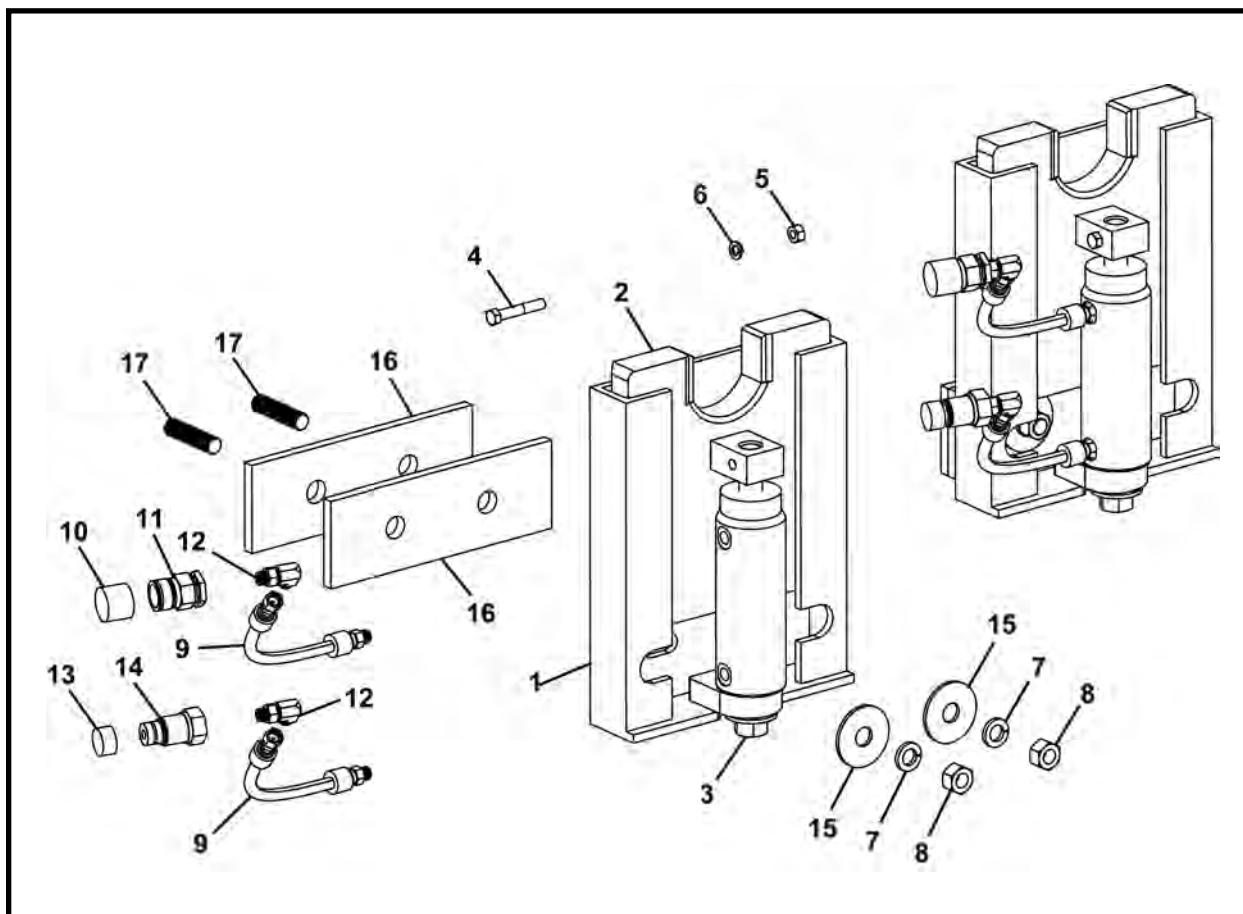
FRAME ENDS, 9 FT ROUND SHAFT, FA43501F
339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43501F	FRAME ENDS, 9 FT Round Shaft
1	1	A43515A	WELDMENT, Radial Front
2	1	A43526A	WELDMENT, Radial Back, High Profile
3	2	A40830P	PIN, Front Plate
4	2	A40831P	PIN KEEPER, Front Plate
5	4	P0045-006	WASHER, Lock 3/8
6	4	P0001-06-003	BOLT, Hex 3/8 UNC x .75
7	4	P0045-008	WASHER, Lock 1/2
8	4	P0001-08-004	BOLT, Hex 1/2 UNC x 1
9	2	A40824P	PIN, Rear Mount
10	2	A40825P	PIN KEEPER, Rear Mount
11	3	A40167A	ASSEMBLY, Roller Bracket (Includes items 11a - 11c)
11a	1	A40448P	ROLLER
11b	1	P0003-12A-000	NUT, Nylock 3/4
11c	1	P0001-12-018	BOLT, Hex 3/4 UNC x 4.5
12	3	A40449P	MOUNT, Roller Bracket
13	6	P0045-012	WASHER, Lock 3/4
14	6	P0001-12-012	BOLT, Hex 3/4 UNC x 3
15*	1	A42430A	HYDRAULIC MAKEUP TOOL
16	8	P0001-10-010	BOLT, Hex 5/8 UNC x 2.5
17	8	P0040-010	WASHER, Flat 5/8
18	8	P0003-10-000	NUT, 5/8
19	4	P0094-013	LOAD BINDER
20	4	A42442A	WELDMENT, Brace
21	1	A46801P	RISER, Makeup Tool

* Refer to this section for parts information.

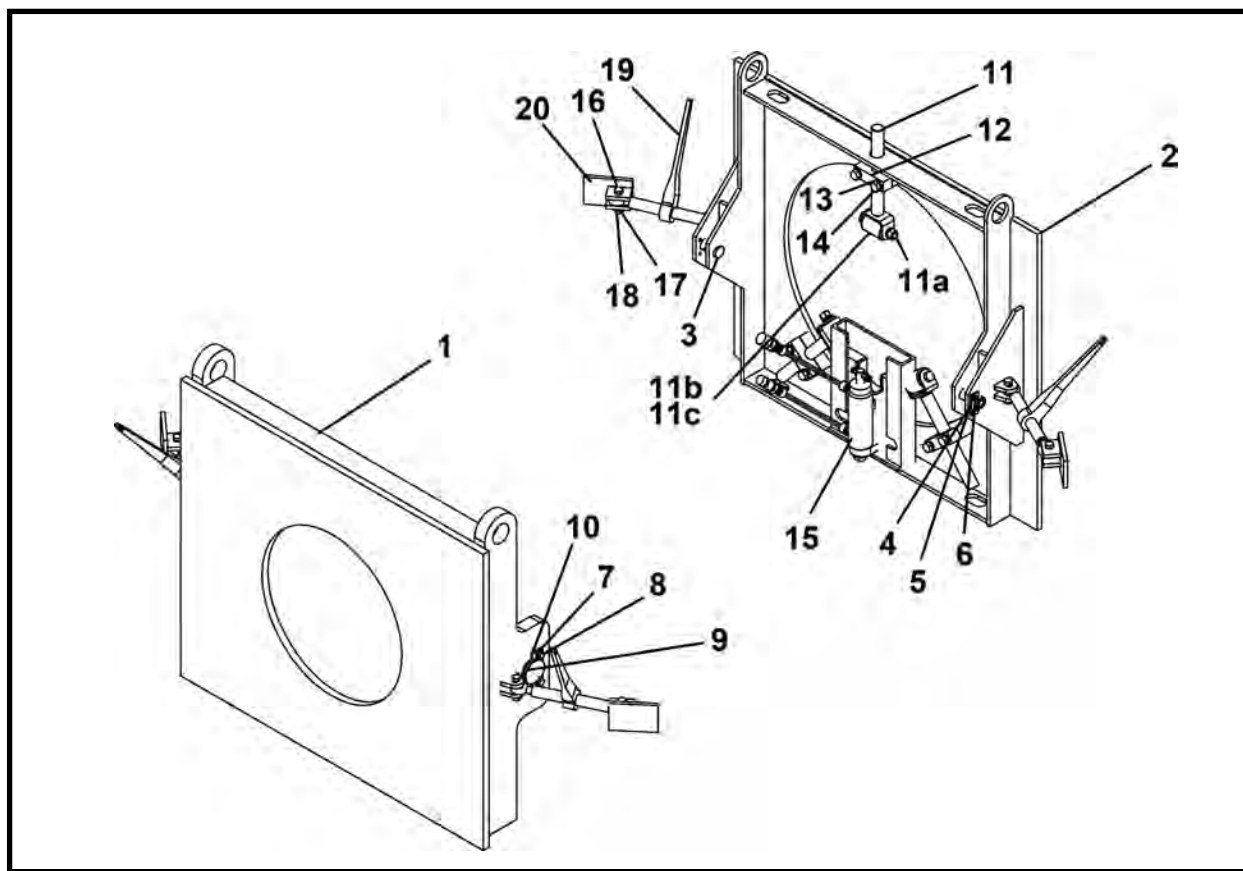
HYDRAULIC MAKEUP TOOL, A42430A **339A LATCHING FRAME**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42430A	HYDRAULIC MAKEUP TOOL
1	1	A42431A	HOUSING
2	1	A42437A	PLATE
3*	1	014603A00	CYLINDER
4	1	P0001-07-010	BOLT, Hex 7/16 UNC x 2.5
5	1	P0003-07-000	NUT, 7/16
6	1	P0045-007	WASHER, Lock 7/16
7	2	P0045-012	WASHER, Lock 3/4
8	2	P0003-12-000	BOLT, Hex 3/4 UNC x 2.5
9	2	A10348A-074	HOSE ASSEMBLY, 1/4 x 74
10	1	P0100-047A	PLUG, Dust
11	1	P0100-047	COUPLER, Female
12	2	P0300-311	FITTING, 04MFFOR-06MB90
13	1	P0100-046A	CAP, Dust
14	1	P0100-046	COUPLER, Female
15	2	004124P01	WASHER
16	2	A42453P	SPACER, Rubber
17	2	P0025-12-048	STUD

* Refer to section 10, Cylinders for parts information.

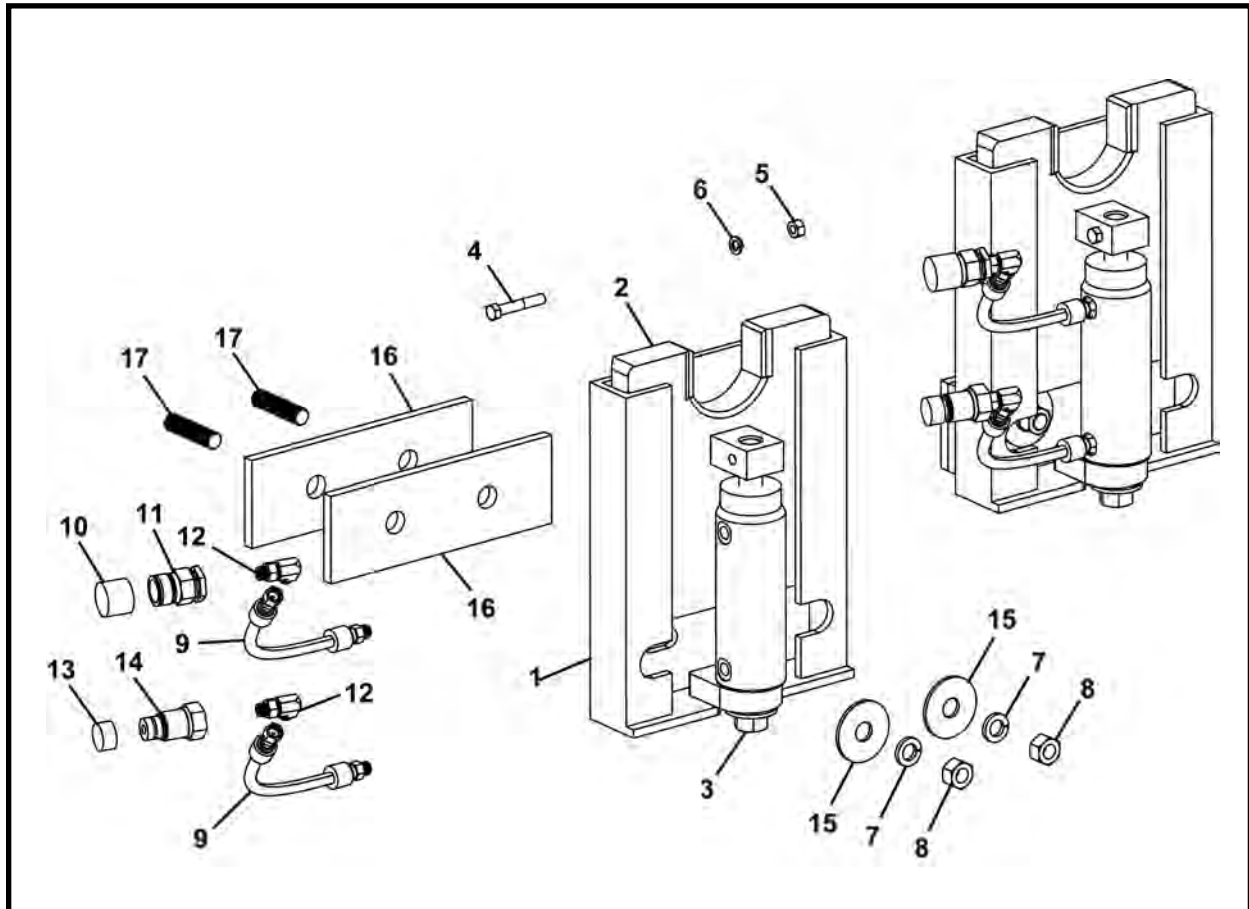
FRAME ENDS, 9 FT SQUARE SHAFT, FA43502F
339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43502F	FRAME ENDS, 9 FT Square Shaft
1	1	A43540A	WELDMENT, Straight Back
2	1	A43537A	WELDMENT, Straight Front
3	2	A40830P	PIN, Front Plate
4	2	A40831P	PIN KEEPER, Front Plate
5	4	P0045-006	WASHER, Lock 3/8
6	4	P0001-06-003	BOLT, Hex 3/8 UNC x .75
7	4	P0045-008	WASHER, Lock 1/2
8	4	P0001-08-004	BOLT, Hex 1/2 UNC x 1
9	2	A40824P	PIN, Rear Mount
10	2	A40825P	PIN KEEPER, Rear Mount
11	3	A40167A	ASSEMBLY, Roller Bracket (Includes items 11a - 11c)
11a	1	A40448P	ROLLER
11b	1	P0003-12A-000	NUT, Nylock 3/4
11c	1	P0001-12-018	BOLT, Hex 3/4 UNC x 4.5
12	6	A40449P	MOUNT, Roller Bracket
13	6	P0045-012	WASHER, Lock 3/4
14	6	P0001-12-016	BOLT, Hex 3/4 UNC x 4
15*	1	A42430A	HYDRAULIC MAKEUP TOOL
16	8	P0001-10-010	BOLT, Hex 5/8 UNC x 2.5
17	8	P0040-010	WASHER, Flat 5/8
18	8	P0003-10-000	NUT, 5/8
19	4	P0094-013	LOAD BINDER
20	4	A42442A	WELDMENT, Brace

* Refer to this section for parts information.

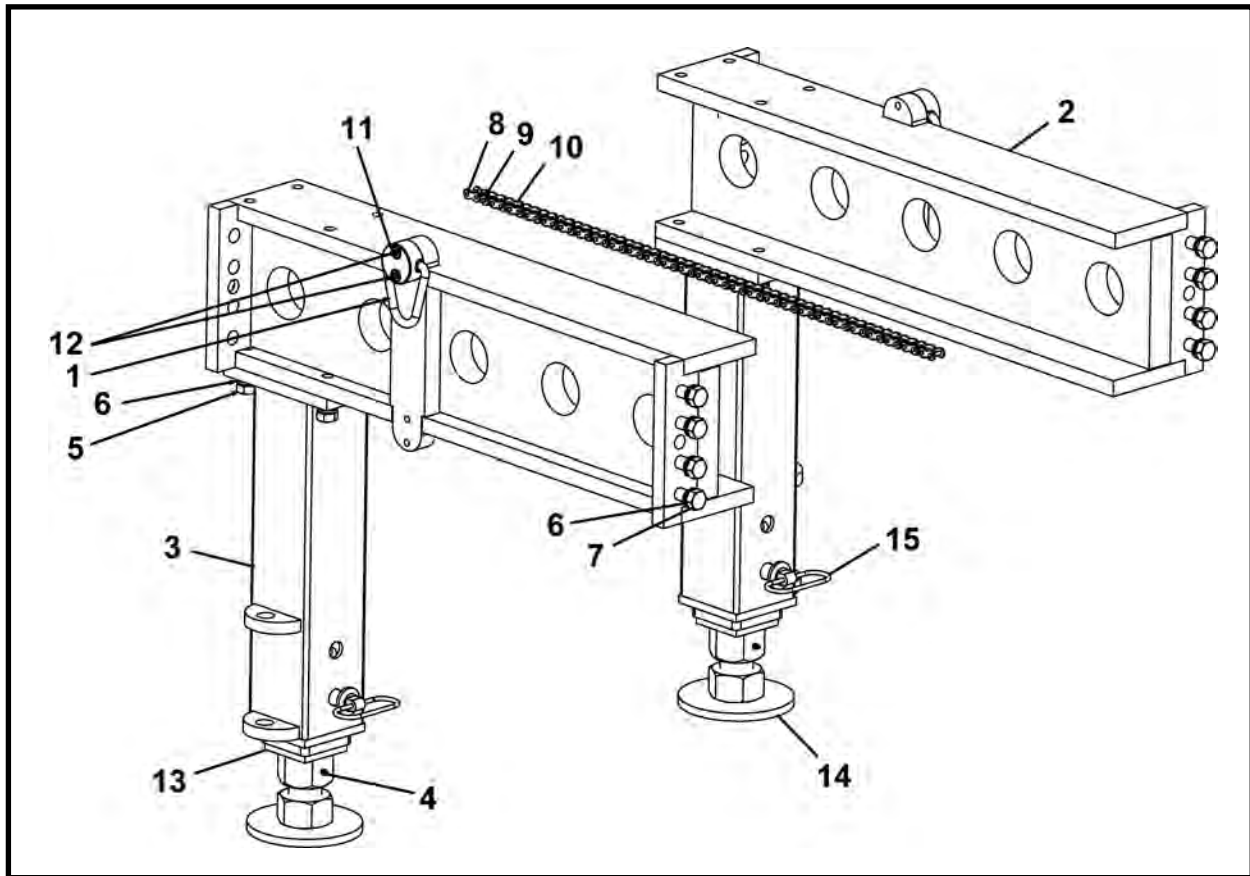
HYDRAULIC MAKEUP TOOL, A42430A **339A LATCHING FRAME**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42430A	HYDRAULIC MAKEUP TOOL
1	1	A42431A	HOUSING
2	1	A42437A	PLATE
3*	1	014603A00	CYLINDER
4	1	P0001-07-010	BOLT, Hex 7/16 UNC x 2.5
5	1	P0003-07-000	NUT, 7/16
6	1	P0045-007	WASHER, Lock 7/16
7	2	P0045-012	WASHER, Lock 3/4
8	2	P0003-12-000	BOLT, Hex 3/4 UNC x 2.5
9	2	A10348A-074	HOSE ASSEMBLY, 1/4 x 74
10	1	P0100-047A	PLUG, Dust
11	1	P0100-047	COUPLER, Female
12	2	P0300-311	FITTING, 04MFFOR-06MB90
13	1	P0100-046A	CAP, Dust
14	1	P0100-046	COUPLER, Female
15	2	004124P01	WASHER
16	2	A42453P	SPACER, Rubber
17	2	P0025-12-048	STUD

* Refer to section 10, Cylinders for parts information.

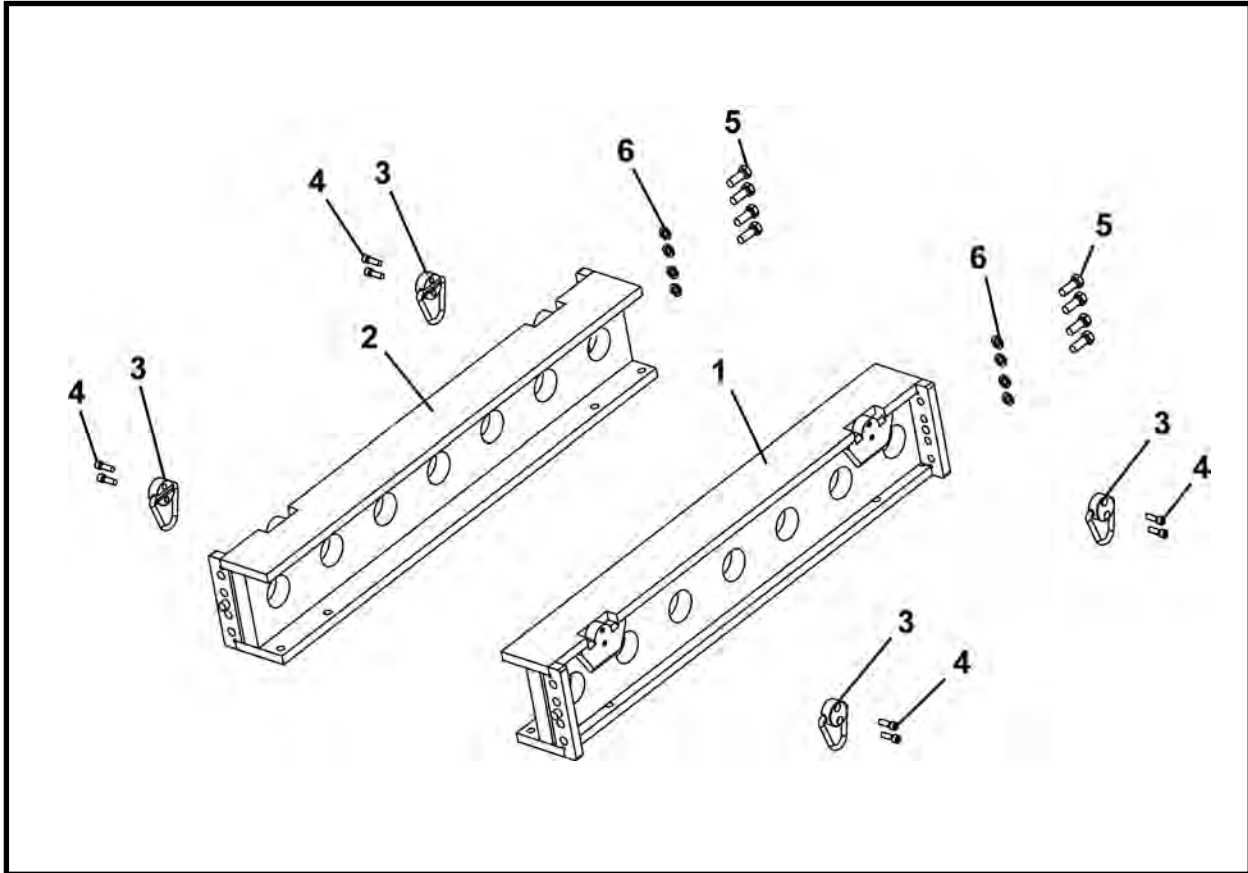
FRAME EXTENSION - 40", FA40012F
339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40012F	FRAME EXTENSION 40"
1	1	A40158A	WELDMENT, 40" Frame Extension - Left
2	1	A40298A	WELDMENT, 40" Frame Extension - Right
3	2	A40169A	WELDMENT, Leg
4	2	P0063-001	FITTING, Grease
5	8	P0001-12-008	BOLT, Hex 3/4 UNC x 2
6	16	P0045-012	WASHER, Lock 3/4
7	8	P0001-12-009	BOLT, Hex 3/4 UNC x 2.25
8	1	P0078-008	LINK, Connector
9	1	P0078-005	LINK, Repair
10	80 LI	P0078-002	CHAIN, Roller
11	2	P0091-010	RING, Pivot Lift
12	4	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
13	2	A40111A	WELDMENT, Front Leg
14	2	A40112A	WELDMENT, Screw Jack
15	2	P0090-013	PIN, Hitch

LI - Linear Inch

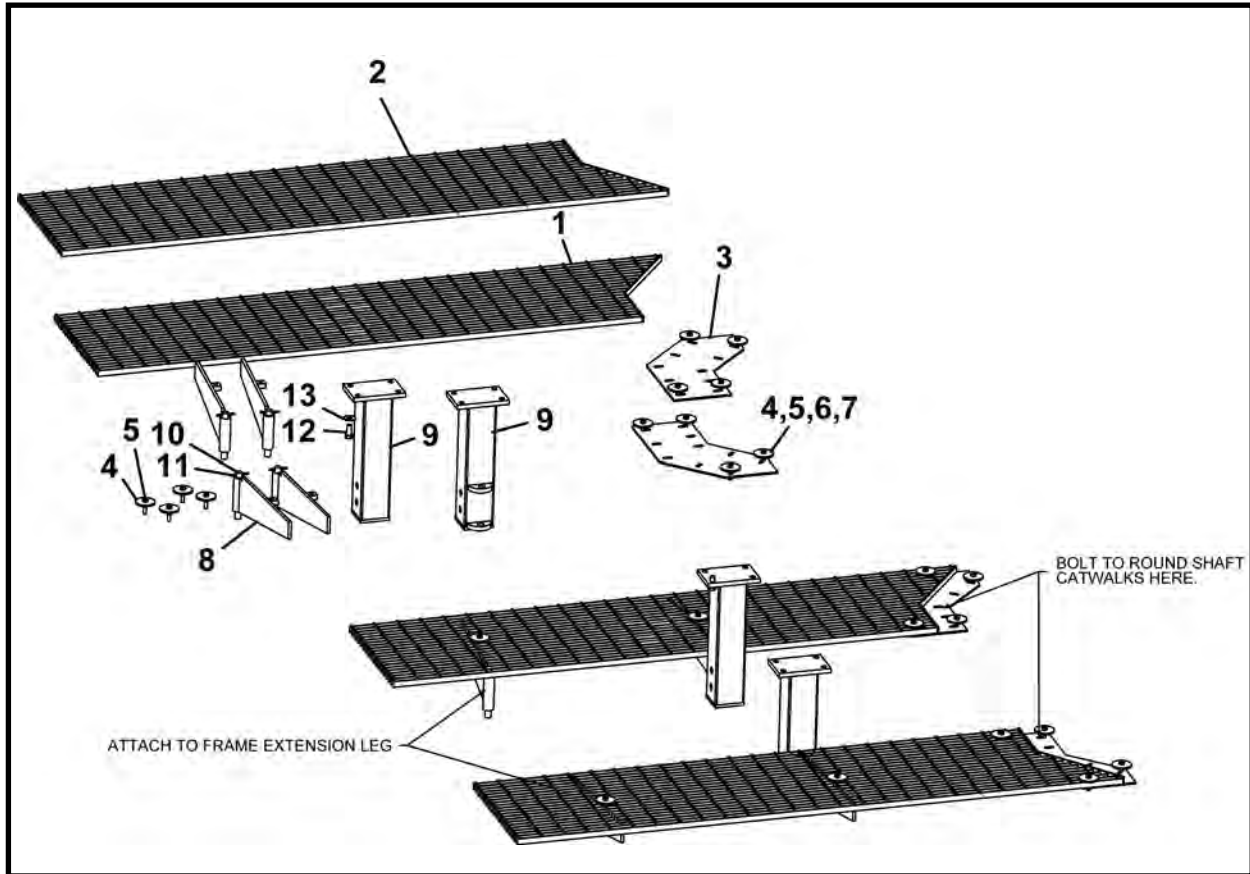
FRAME EXTENSION RAILS - 56", FA43236F
339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43236F	FRAME EXTENSION RAILS 56"
1	1	A43233A	RAIL, A
2	1	A43234A	RAIL, B
3	4	P0091-010	RING, Pivot Lift
4	8	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
5	8	P0001-12-008	BOLT, Hex 3/4 UNC x 2
6	8	P0045-012	WASHER, Lock 3/4

Note: The use of this 56" Frame Extensions Rails, FA43236F, requires the use of the 56" Extension Base, FA43237F.

CATWALK EXTENSIONS ASSEMBLY, FA45687F
339A LATCHING FRAME

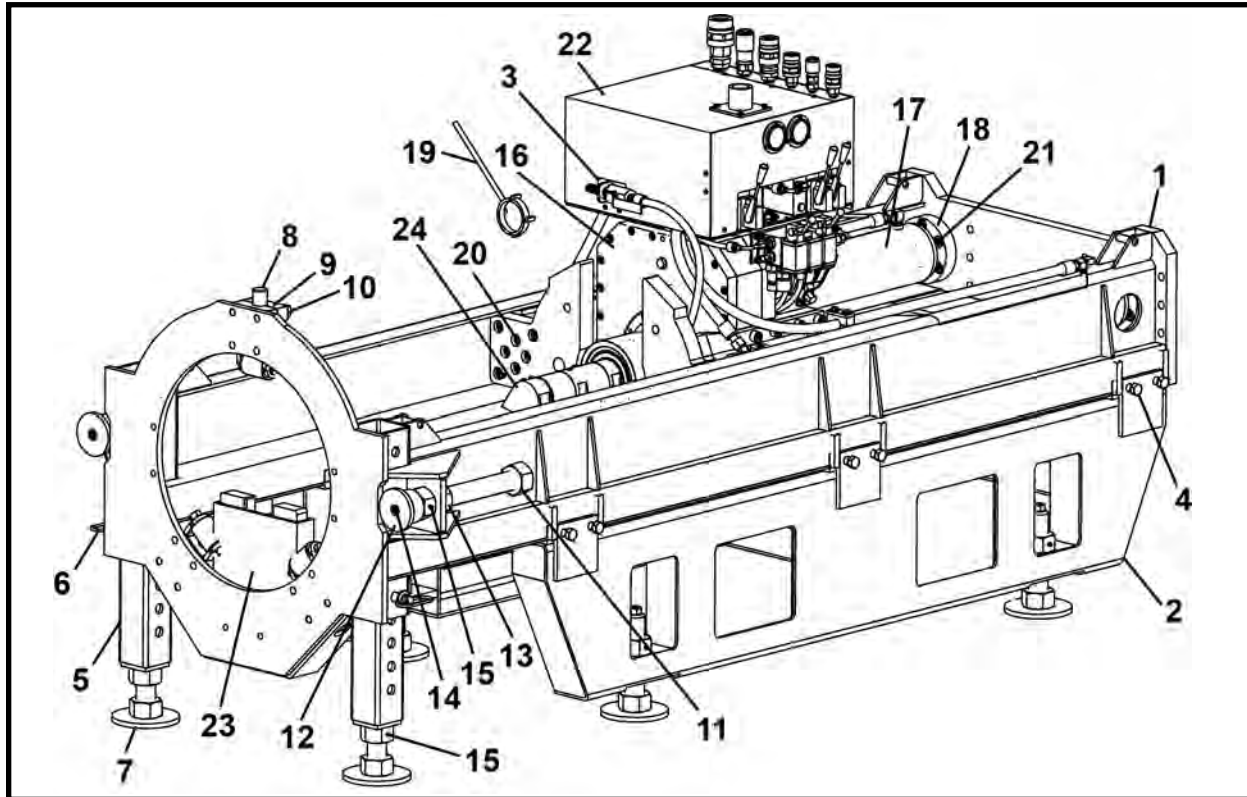


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45687F	CATWALK EXTENSIONS ASSEMBLY
1	1	A45689P	EXTENSION, Right
2	1	A45686P	EXTENSION, Left
3	2	A45688P	SPLICE, Extension
4	12	003640P00	WASHER
5	12	P0001-08-009	BOLT, Hex 1/2 UNC x 2.25
6	8	P0040-008	WASHER, Hardened Flat 1/2
7	8	P0004-08-000	NUT, 1/2 UNF
8	4	A42488A	HINGE
9	2	A40169A	WELDMENT, Leg
10	4	A42485P	PIN, Hinge
11	4	P0049-125	PIN, Roll
12	8	P0001-12-007	BOLT, Hex 3/4 UNC x 1.75
13	8	P0040-012	WASHER, Hardened Flat 3/4

NOTE: Used with 40" (FA40012F) and 56" (FA43236F) extensions.

NOTES

SINGLE STAGE FRAME WITH LOWER BASE ASSEMBLY, FA40027F
240A SINGLE STAGE FRAME (FA40027F-73 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40027F	SINGLE STAGE FRAME - 240A
1	1	A40100A	FRAME, Drilling
2*	1	A40101A	ASSEMBLY, Lower Frame
3*	1	A43570A	ASSEMBLY, Fluid Control
4	12	P0001-12-008	BOLT, Hex 3/4 UNC x 2
5	2	A40111A	WELDMENT, Front Leg (Includes item 5a)
5a	1	P0063-001	FITTING, Grease
6	2	P0090-013	PIN, Hitch
7	2	A40112A	WELDMENT, Screw Jack
8	3	A40107A	ASSEMBLY, Roller Bracket (Includes items 8a - 8d)
8a	1	A40448P	ROLLER
8b	1	P0003-12-000	NUT
8c	1	P0045-012	WASHER, Lock
8d	1	P0001-12-020	BOLT, Hex 3/4 UNC x 5
9	6	A40449P	SUPPORT, Clamp Bar Pipe
10	6	P0001-12-016	BOLT, Hex 3/4 UNC x 4
11	2	A40114A	SCREW, Tension
12	2	A40460P	PAD, Tension Screw
13	2	P0005-32-000	NUT
14	2	P0030S-12-003	BOLT, Shoulder 3/4 x 5/8 UNC x 3/4
15	2	P0063-001	FITTING, Grease 1/4
16.1a*	1	A40166A	DRILLING DRIVE THRUST FRAME ASSY (SAI Motor) (sn 55 & Before)
16.1b*	1	A43326A	DRILLING DRIVE THRUST FRAME ASSY (VIS Motor) (sn 55 & Before)
16.2 *	1	A47360A	DRILLING DRIVE THRUST FRAME ASSY (sn 56 & After)
17.1**	2	A40115A	CYLINDER ASSEMBLY (Gland smaller than cylinder barrel)
17.2**, ^	2	P0307-230	CYLINDER ASSEMBLY (Gland flush w/cylinder barrel)
18	2	A40457P	RETAINER, Cylinder
19*	1	A40740A	WRENCH, Spindle Nut
20	8	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
21	12	P0031-12-007	SCREW, Socket Head Cap 3/4 UNC x 1.75
22.1***	1	A40175A	HYDRAULIC ASSEMBLY (sn FA40027F-55 & Before)
22.2***	1	A47373A	HYDRAULIC ASSEMBLY (sn FA40027F-56 & After)
23*	1	A42430A	HYDRAULIC MAKEUP TOOL
24*	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY

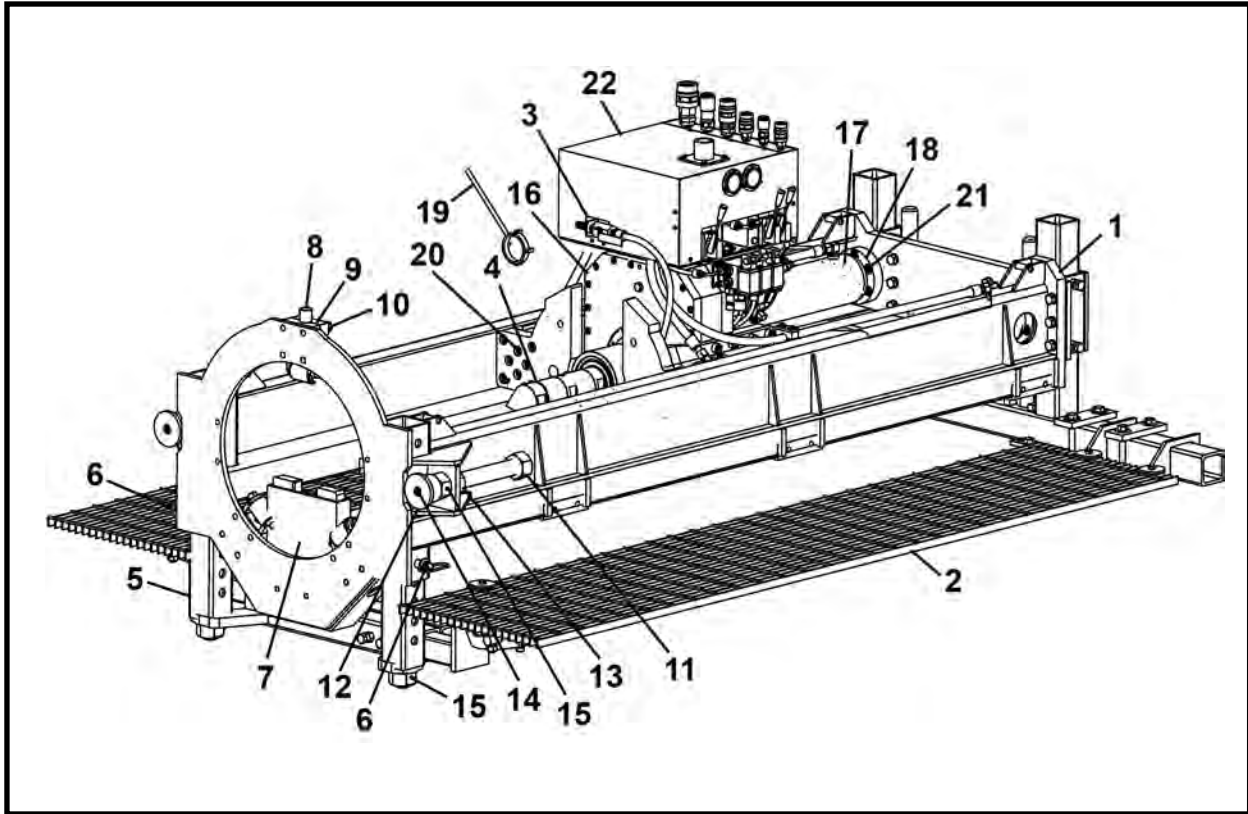
* Refer to this section for parts information.

** Refer to section 10, Cylinders for parts information.

*** Refer to section 6, Hydraulics for parts information.

^ Cylinder base end is stamped with A01-1994 & Cyl SN.

SINGLE STAGE FRAME WITH UNIVERSAL AUGER ADAPTER ASSEMBLY, FA40027F
240A SINGLE STAGE FRAME (FA40027F-74 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40027F	SINGLE STAGE FRAME - 240A
1	1	A40100A	FRAME, Drilling
2*	1	FA44781F	ASSEMBLY, Universal Auger Set Adapter
3*	1	A43570A	ASSEMBLY, Fluid Control
4*	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
5	2	A40111A	LEG, Front
6	2	P0090-013	PIN, Hitch
7*	1	A42430A	HYDRAULIC MAKEUP TOOL
8	3	A40107A	ASSEMBLY, Roller Bracket (Includes items 8a - 8d)
8a	1	A40448P	ROLLER
8b	1	P0003-12-000	NUT
8c	1	P0045-012	WASHER, Lock
8d	1	P0001-12-020	BOLT, Hex 3/4 UNC x 5
9	6	A40449P	SUPPORT, Clamp Bar Pipe
10	6	P0001-12-016	BOLT, Hex 3/4 UNC x 4
11	2	A40114A	SCREW, Tension
12	2	A40460P	PAD, Tension Screw
13	2	P0005-32-000	NUT
14	2	P0030S-12-003	BOLT, Shoulder 3/4 x 5/8 UNC x .75
15	4	P0063-001	FITTING, Grease - Straight
16*	1	A47360A	DRILL DRIVE THRUST FRAME ASSEMBLY
17**, ^	2	P0307-230	CYLINDER ASSEMBLY (Gland flush w/cylinder barrel)
18	2	A40457P	RETAINER, Cylinder
19*	1	A40740A	WRENCH, Spindle Nut
20	8	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
21	12	P0031-12-007	SCREW, Socket Head Cap 3/4 UNC x 1.75
22***	1	A47373A	HYDRAULIC ASSEMBLY

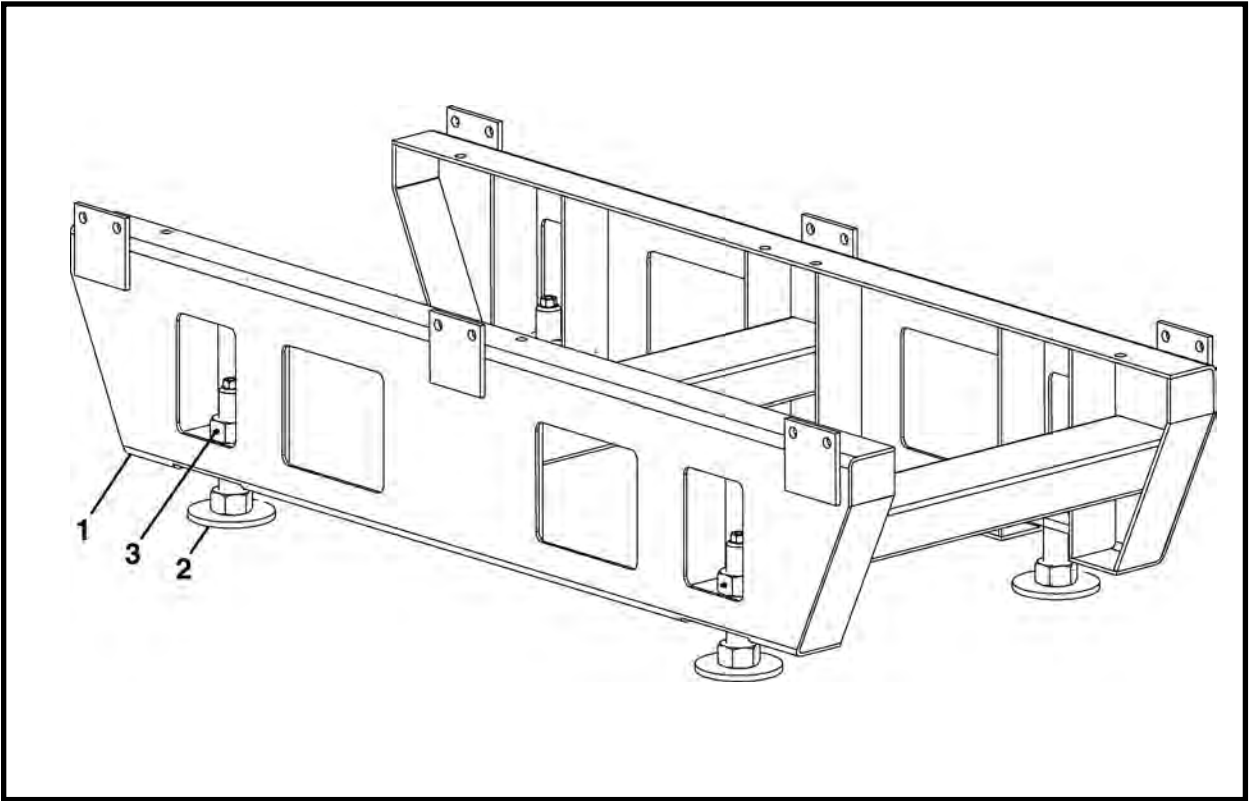
* Refer to this section for parts information.

** Refer to section 10, Cylinders for parts information.

*** Refer to section 6, Hydraulics for parts information.

^ Cylinder base end is stamped with A01-1994 & Cyl SN.

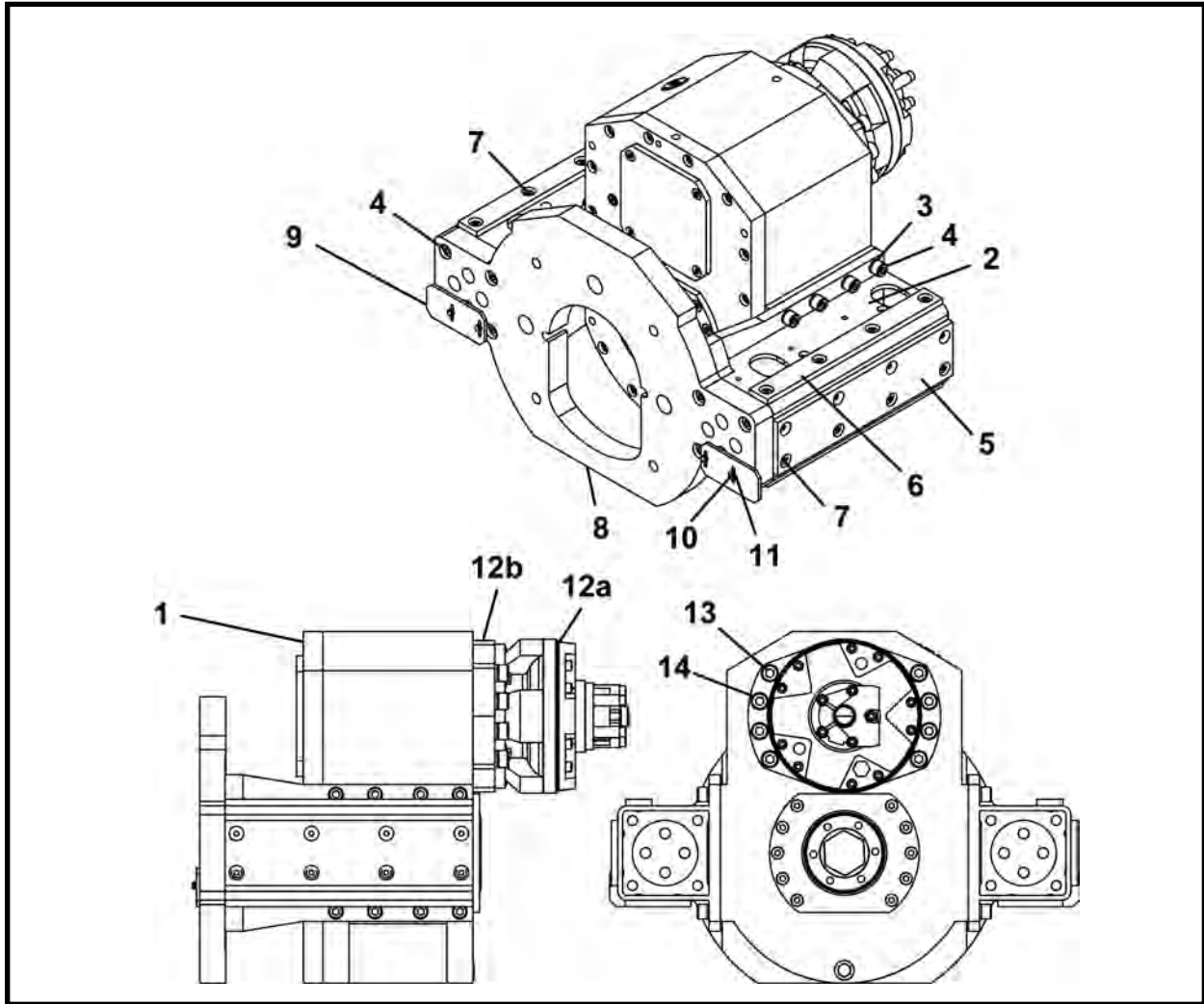
LOWER BASE ASSEMBLY, A40101A
240A SINGLE STAGE FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40101A	LOWER FRAME ASSEMBLY
1	1	A40110A	FRAME, Lower
2	4	A40113A	SCREW, Jack
3	4	P0063-001	FITTING, Grease 1/4

NOTES

DRILLING DRIVE THRUST FRAME ASSEMBLY, A40166A
240A SINGLE STAGE FRAME WITH SAI MOTOR (SN FA40027F-55 & Before)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40166A	DRILLING DRIVE THRUST FRAME ASSEMBLY
1*	1	A40103A	ASSEMBLY, Drilling Drive
2	2	A40106A	CYLINDER THRUST GUIDE
3	24	P0046-012	WASHER, Lock Hi-Collar 3/4
4	24	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
5	4	A40417P	WEAR PAD, Side - Bottom
6	2	A40418P	WEAR PAD, Top
7	40	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 UNC x .75
8.1*	1	A40416P	PLATE, Thrust
8.2	1	A43164P	PLATE, Thrust
9	2	A40419P	SCRAPPER
10	4	P0001-04-005	BOLT, Hex 1/4 UNC x 1.25
11	4	P0045-004	WASHER, Lock 1/4
12	1	P0304-160	MOTOR, Drive with Planetary (SAI) (Includes items 12a-12e)
12a**	1	P0304-160C	MOTOR, Hydraulic
12b	1	P0304-160F	ASSEMBLY, Planetary
12c	1	P0304-160A	SEAL, Oil (not shown)
12d	1	P0304-160H	RING, Snap (not shown)
12e	1	P0304-160G	ORING, Gearbox To Motor (not shown)
13	8	P0046-014	WASHER, Lock Hi-Collar 7/8
14	8	P0031-14-012	SCREW, Socket Head Cap 7/8 UNC x 3

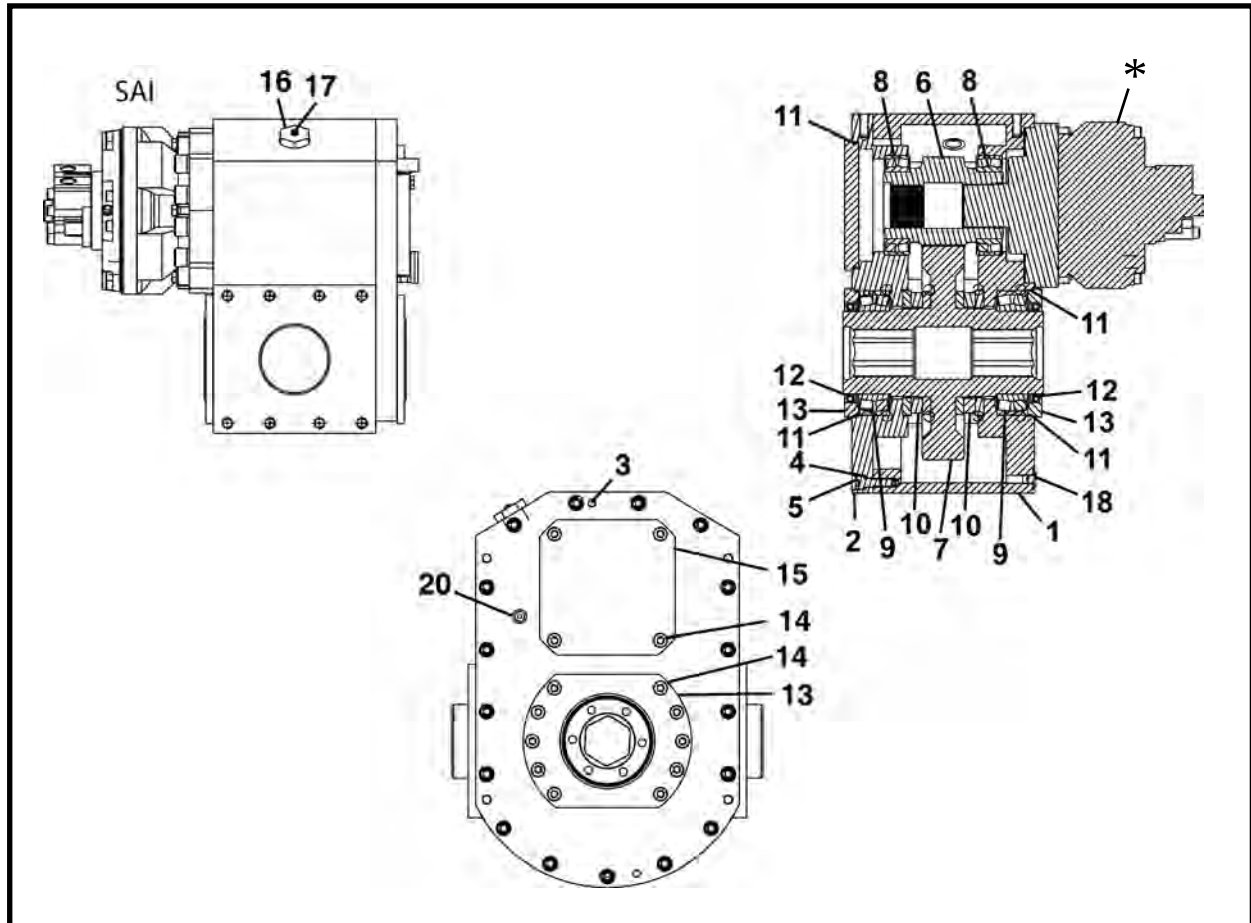
* Refer to this section for parts information.

** Item 8.1, A40416P Thrust Plate is replaced with item 8.2 A43164P Thrust Plate.

*** Refer to section 8, Motors for parts information.

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DRILLING DRIVE ASSEMBLY, A40103A
240A SINGLE STAGE FRAME WITH SAI MOTOR (SN FA40027F-55 & Before)



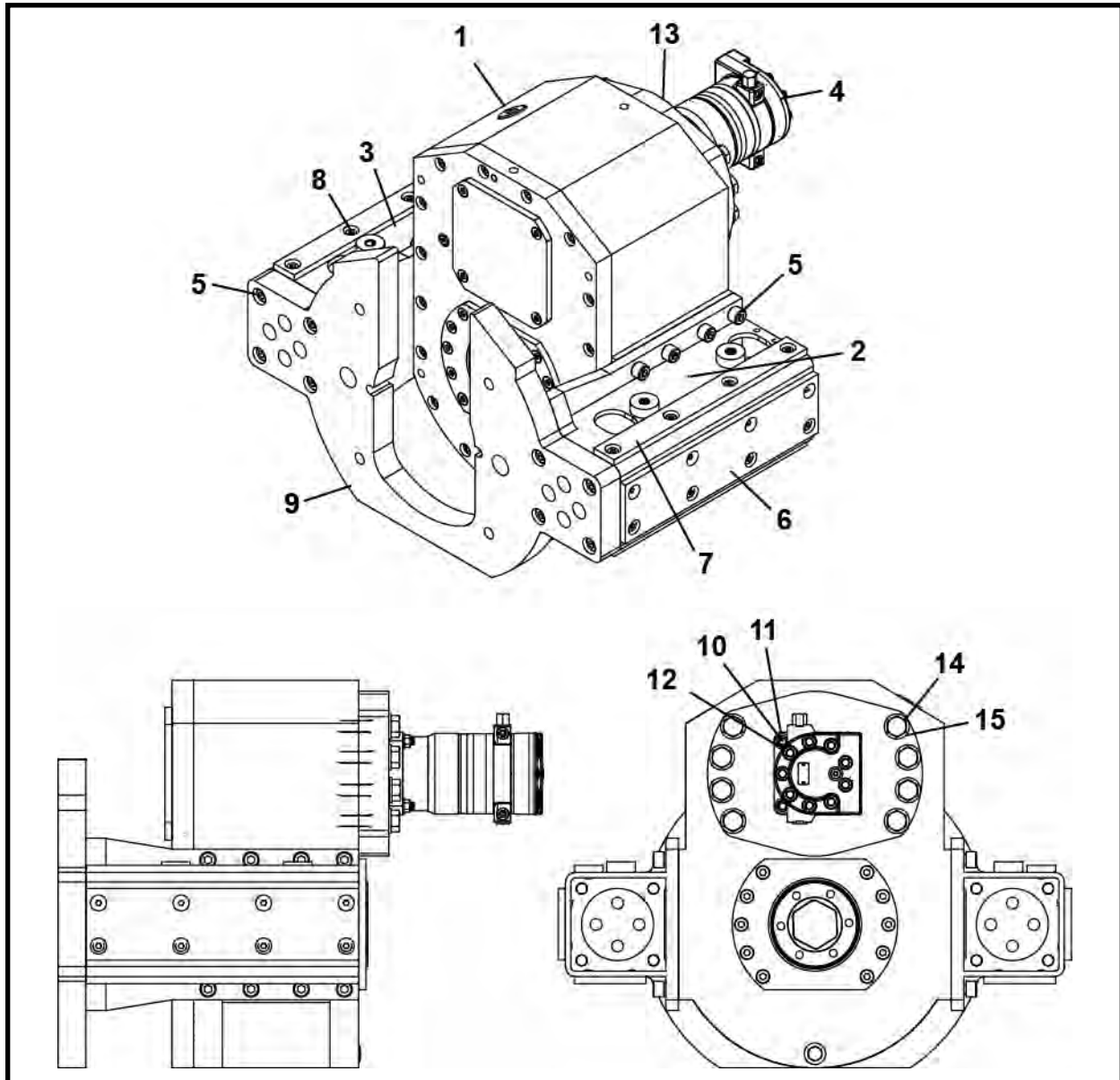
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40103A	DRILLING DRIVE ASSEMBLY
1	1	A40104A	CASE, Gear
2	1	A40105A	COVER, Front Case Gear
3	2	P0037-068	PIN, Dowel
4	17	P0046-010	WASHER, Lock Hi-Collar 5/8
5	17	P0031-10-008	SCREW, Socket Head Cap 5/8 UNC x 2
6	1	A40400P	GEAR, Pinion
7	1	A40401P	GEAR, Drive
8	2	P0065-161	BEARING, Spherical Roller
9	2	P0065-162	BEARING, Spherical Roller
10	2	P0065-160	BEARING, Cylindrical Roller
11	3	P0085-269	ORING
12	2	P0080-027	SEAL, Lip
13	2	A40414P	RETAINER, Seal
14	24	P0030-08-005	SCREW, Flat Head Socket Head Cap 1/2 UNC X 1.25
15	1	A40415P	COVER, Inspection
16	1	A42369P	PLUG, Filler 1-5/8-12 Hollow Hex Oring
17	1	P0063-012	BREATHER
18	1	P0300-163	PLUG, Magnetic Drain
19	7 GAL	P0126-014	GEAR LUBE, 630 Mobil Synthetic
20	1	P0300-176	PLUG, 9/16-18 Oring Hollow Hex

* Motor; reference

Note: When replacing parts, tighten bolts to allowed load in ft-lbs torque; (1/2"-13 UNC,- 95 ft-lbs.), (5/8"-11 UNC, 190 ft-lbs), (7/8"-9 UNC, 460 ft-lbs).

GAL - Gallons

DRILLING DRIVE THRUST FRAME ASSEMBLY, A43326A
240A SINGLE STAGE FRAME WITH VIS MOTOR (SN FA40027F-55 & Before)

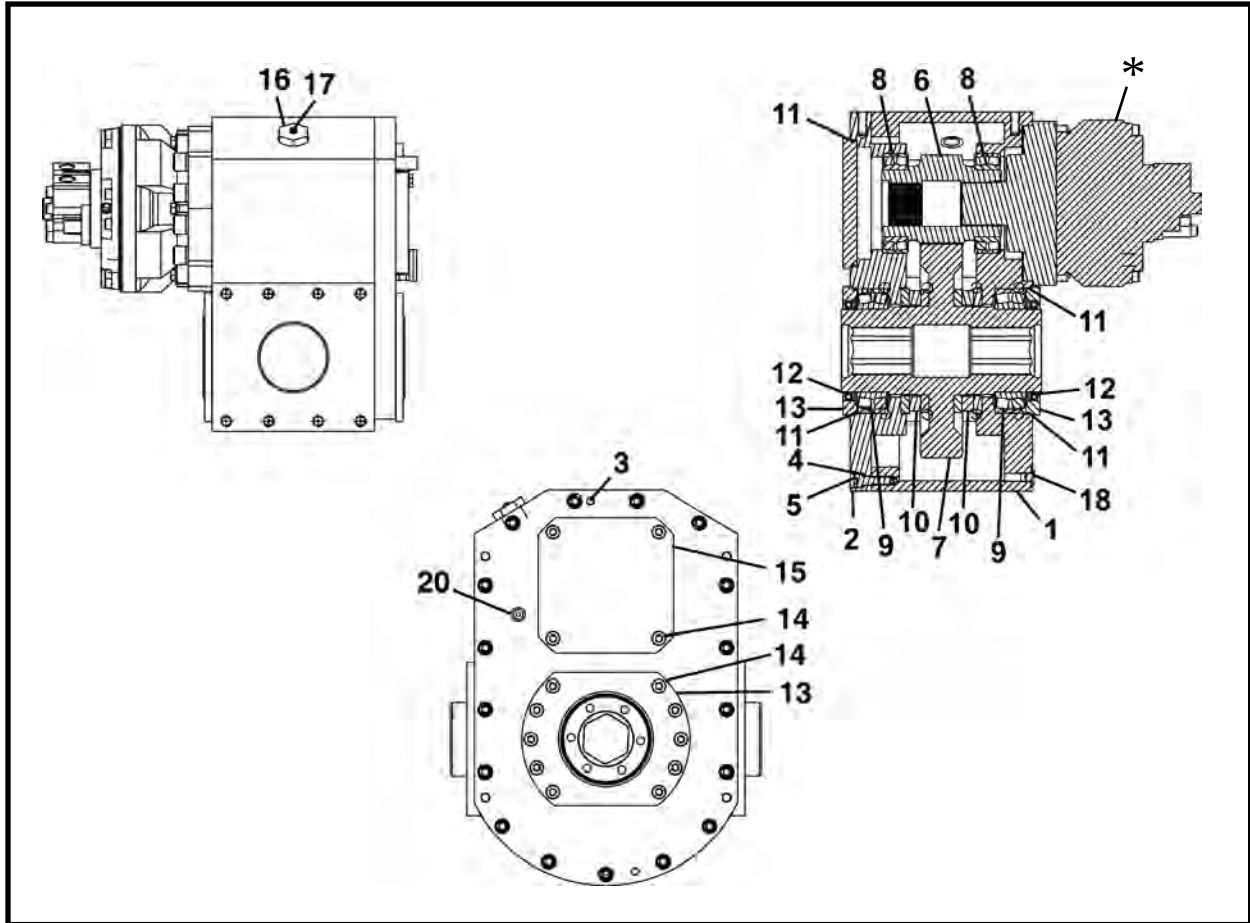


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43326A	DRILLING DRIVE THRUST FRAME ASSEMBLY
1*	1	A40103A	ASSEMBLY, Drilling Drive
2	1	A43323A	CYLINDER THRUST GUIDE - Left
3	1	A43324A	CYLINDER THRUST GUIDE - Right
4**	1	P0304-169	MOTOR, VIS
5	24	P0031-12-008	SCREW, Socket Head Cap 3/4 UNC x 2
6	4	A40417P	WEAR PAD, Side - Bottom
7	2	A40418P	WEAR PAD, Top
8	40	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 UNC x .75
9	1	A43164P	PLATE, Thrust
10	4	P0025-005	STUD
11	4	P0040-008	WASHER, Hardened Flat 1/2
12	4	P0003-08-000	NUT, 1/2
13*	1	A43050A	ASSEMBLY, Planetary Gear Box
14	8	P0001-14-014	BOLT, Hex 7/8 UNC x 3.5
15	8	P0040-014	WASHER, Hardened Flat 7/8

* Refer to this section for parts information.

** Refer to section 8, Motors for parts information.

DRILLING DRIVE ASSEMBLY, A40103A
240A SINGLE STAGE FRAME WITH VIS MOTOR (SN FA40027F-55 & Before)



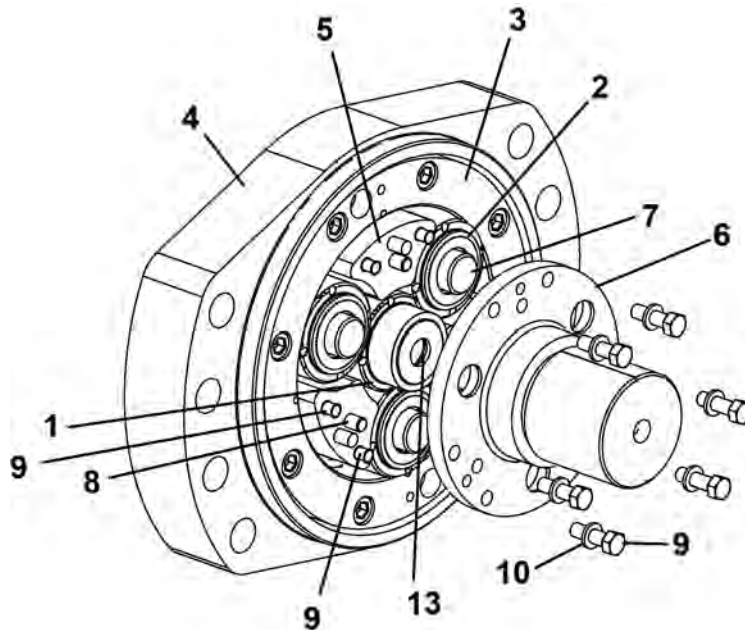
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40103A	DRILLING DRIVE ASSEMBLY
1	1	A40104A	CASE, Gear
2	1	A40105A	COVER, Front Case Gear
3	2	P0037-068	PIN, Dowel
4	17	P0046-010	WASHER, Lock Hi-Collar 5/8
5	17	P0031-10-008	SCREW, Socket Head Cap 5/8 UNC x 2
6	1	A40400P	GEAR, Pinion
7	1	A40401P	GEAR, Drive
8	2	P0065-161	BEARING, Spherical Roller
9	2	P0065-162	BEARING, Spherical Roller
10	2	P0065-160	BEARING, Cylindrical Roller
11	3	P0085-269	ORING
12	2	P0080-027	SEAL, Lip
13	2	A40414P	RETAINER, Seal
14	24	P0030-08-005	SCREW, Flat Head Socket Head Cap 1/2 UNC x 1.25
15	1	A40415P	COVER, Inspection
16	1	A42369P	PLUG, Filler 1-5/8-12 Hollow Hex Oring
17	1	P0063-012	BREATHER
18	1	P0300-163	PLUG, Magnetic Drain
19	7 GAL	P0126-014	GEAR LUBE, 630 Mobil Synthetic
20	1	P0300-176	PLUG, 9/16-18 Oring Hollow Hex

* Motor; reference

Note: When replacing parts, tighten bolts to allowed load in ft-lbs torque; (1/2"-13 UNC,- 95 ft-lbs.), (5/8"-11 UNC, 190 ft-lbs), (7/8"-9 UNC, 460 ft-lbs).

GAL - Gallon

PLANETARY GEAR BOX ASSEMBLY, A43050A
240A SINGLE STAGE FRAME WITH VIS MOTOR (SN FA40027F-55 & Before)

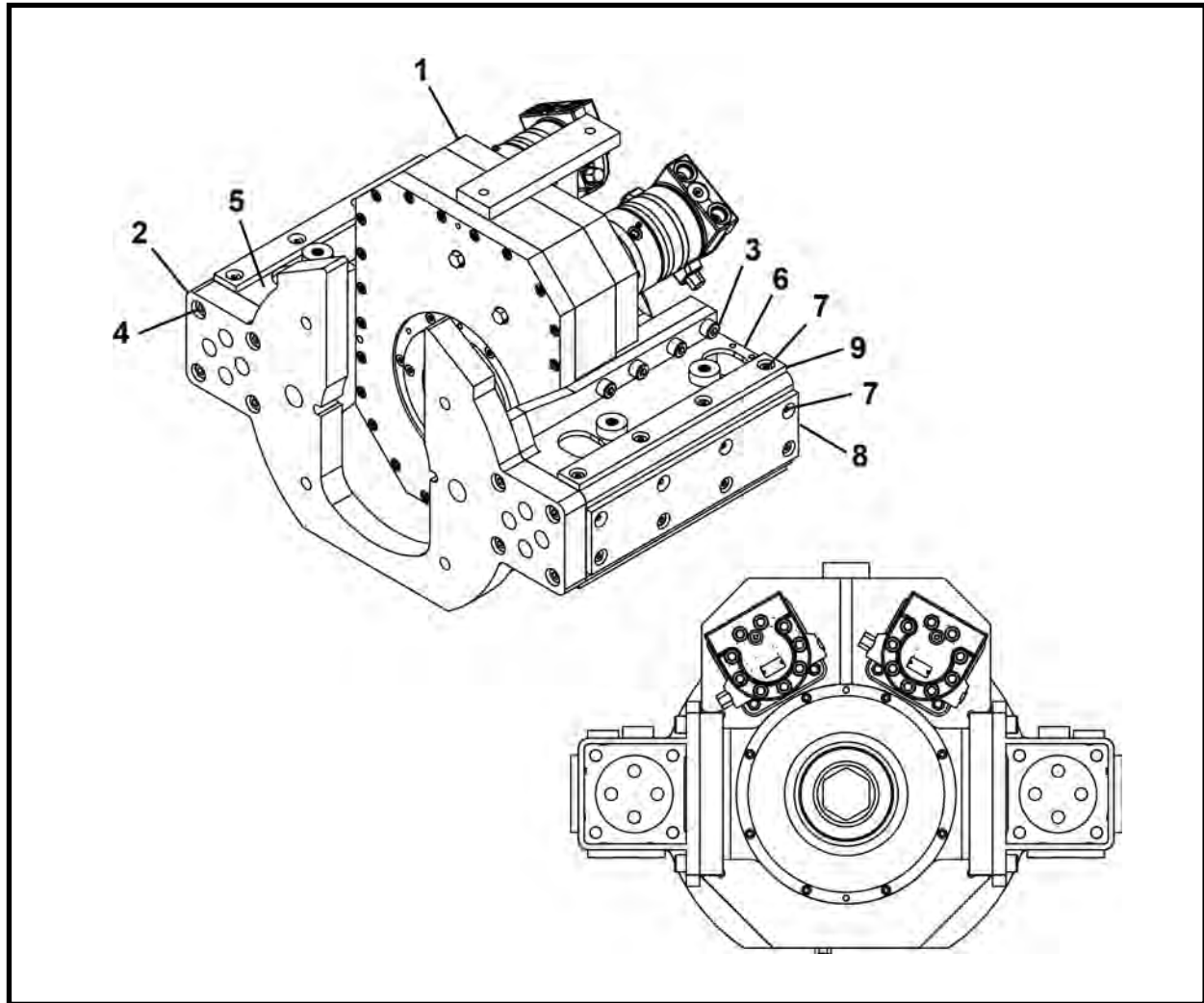


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43050A	PLANETARY GEAR BOX ASSEMBLY
1	1	A43051P	GEAR, Sun
2	3	A43052P	GEAR, Planet
3	1	A43053P	GEAR, Ring
4	1	A43054P	HOUSING, Main
5	1	A43055P	CARRIER, Planet
6	1	A43056P	PLATE
7	3	A43057P	STUD
8	5	-	PIN, Dowel
9	6	-	SCREW, Hex Head Zinc (Tighten to 28 ft-lb torque)
10	6	-	WASHER, Lock Zinc
11	75	-	ROLLER, Needle
12	8	-	SCREW, Socket Head Cap (Tighten to 70 ft-lb torque)
13	1	-	SNAP RING
14	1	-	WSHER, Thrust Bronze
15	6	-	WASHER, Thrust

Note:

1. All bolts must have threads coated with Loctite® #680.
2. Use Loctite® #58775 on all sealing surfaces.

DRILLING DRIVE THRUST FRAME ASSEMBLY, A47360A
240A SINGLE STAGE FRAME (SN FA40027F-56 & After)



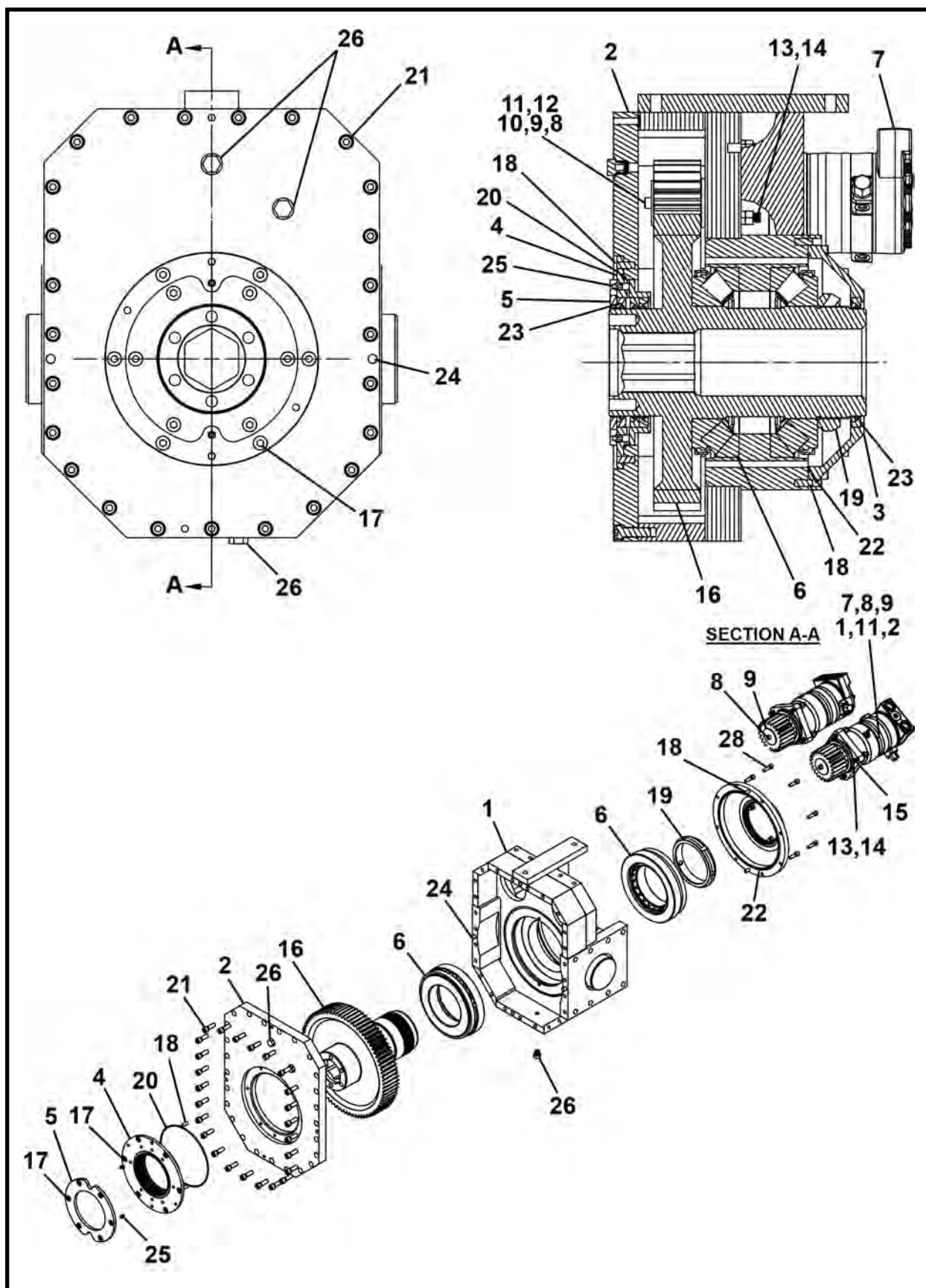
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A47360A	DRILLING DRIVE THRUST FRAME ASSEMBLY
1*	1	A47361A	GEARBOX ASSEMBLY
2	1	A43164P	PLATE, Thrust
3	16	P0031-12-007	SCREW, Socket Head Cap 3/4 UNC x 1.75
4	8	P0031-12-008	SCREW, Cap 3/4 x 2
5	1	A43324A	GUIDE, Cylinder Thrust - Right
6	1	A43323A	GUIDE, Cylinder Thrust - Left
7	38	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 x .75
8	4	A40417P	PAD, Side-Bottom Wear
9	2	A40418P	PAD, Top Wear

* Refer to this section for parts information.

Notes:

1. Lubricate all bolt threads before installing.
2. Torque bolts to allowable loads:
 - 1/4-20 unc - 10 ft-lbs
 - 3/8-16 unc - 38 ft-lbs
 - 3/4-10 unc - 330 ft-lbs
3. Shim top and side wear pads to fit frame weldment. Top clearance 1/16" max. Side clearance 1/8" max.

GEARBOX ASSEMBLY, A47361A
240A SINGLE STAGE FRAME (SN FA40027F-56 & After)



GEARBOX ASSEMBLY, A47361A
240A SINGLE STAGE FRAME (SN FA40027F-56 & After)

ITEM	QTY	PART NO.	DESCRIPTION
0		A47361A	GEARBOX ASSEMBLY
1	1	A47362A	CASE
2	1	A47363P	COVER
3	1	A47324P	RETAINER, Rear
4	1	A47325P	RETAINER, Front
5	1	A47334P	COVER, Seals
6	2	P0065-213	BEARING, Thrust Block
7*	2	P0304-335	MOTOR, VIS 40, 2SPD
8	2	P0031-06-006	SCREW, Socket Head Cap 3/8 UNC x 1
9	2	A43863P	WASHER, Pinion
10	2	A46694P	SPACER, Pinion
11	2	A46695P	SPACER, Shaft
12	2	A42880P	PINION
13	8	P0025-005A	STUD
14	16	P0003-08-000	NUT, 1/2 UNC
15	2	P0085-249	ORING
16	1	A47372P	SHAFT, Geared
17	12	P0030-06-003	SCREW, Flat Head Socket Head Cap 3/8 x .75
18	4	P0037-048	PIN, Dowel
19	1	P0065-213A	LOCKNUT, Thrust Bearing
20	1	P0085-270	ORING
21	25	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
22	1	P0085-278	ORING
23	4	P0080-039	SEAL, Small Borer
24	2	P0037-064	PIN, Dowel
25	2	P0063-004	FITTING, Grease 1/8-NPT
26	3	P0300-193	PLUG, 08MB-PLUG
27	13 QT	P0126-014	LUBE, Mobilgear 630 Gear
28	8	P0031-06-005	SCREW, Socket Head Cap 3/8 UNC x 1.25

* Refer to setion 8, Motors for parts information.

QT - Quarts

NOTE:

1. Use gasket seal P0029-010 to seal between items 1 and 2.
2. Lubricate all bolt threads before installing.
3. When replacing parts, tighten bolts to allowed load in ft-lbs torque; (3/8"-16 UNC - 38 ft-lbs.), (1/2-13 UNC - 93 ft-lbs.).
4. Torque lock nut to 100 ft-lbs. Torque lock nut set screws to 26 ft-lbs.

NOTES

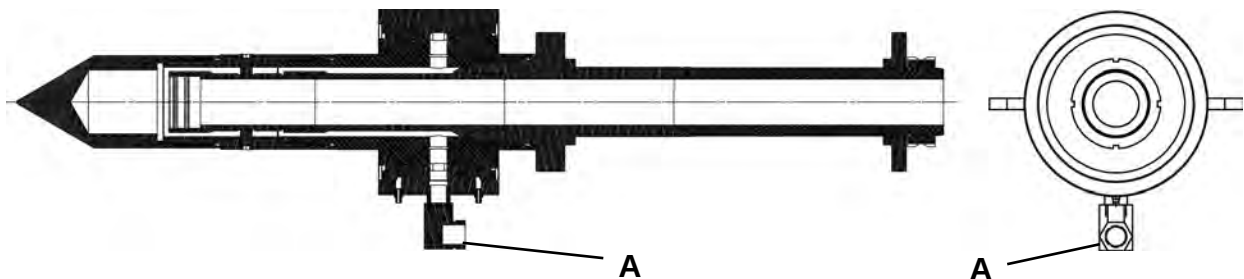
DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F

There are 3 versions of the FA40235F Drive Adapter & Swivel Assembly.

Use the illustrations below to identify your drive adapter & swivel assembly version. The parts breakdown for the 3 versions are located on pages 3-88 through 3-92.

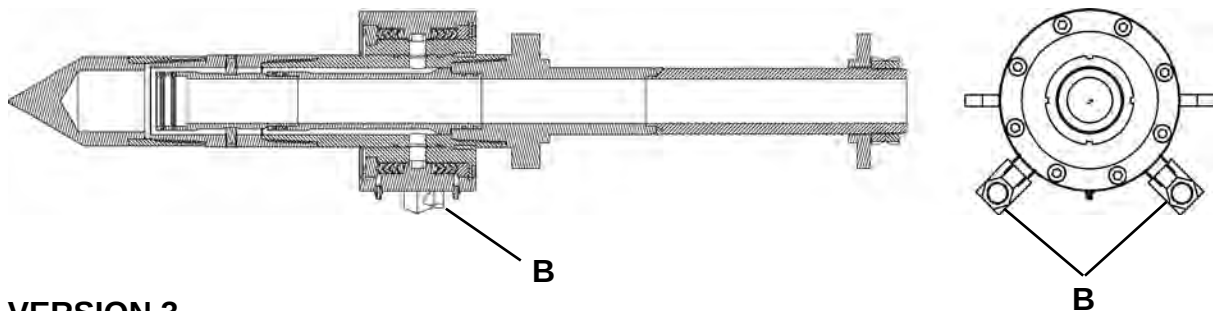
• VERSION 1

The swivel assembly has one lubrication port (A) as shown. The parts breakdown is located on pages 3-88 and 3-89.



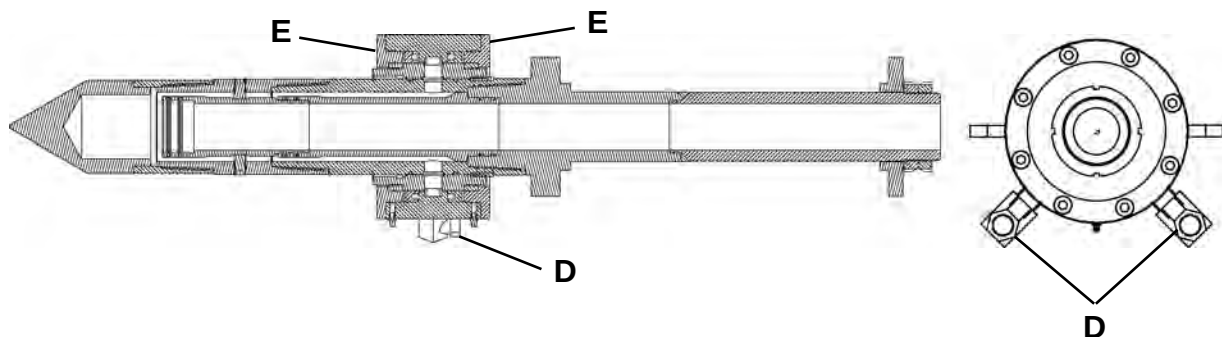
• VERSION 2

The swivel assembly has two lubrication ports (B). The parts breakdown is located on pages 3-90 and 3-91.

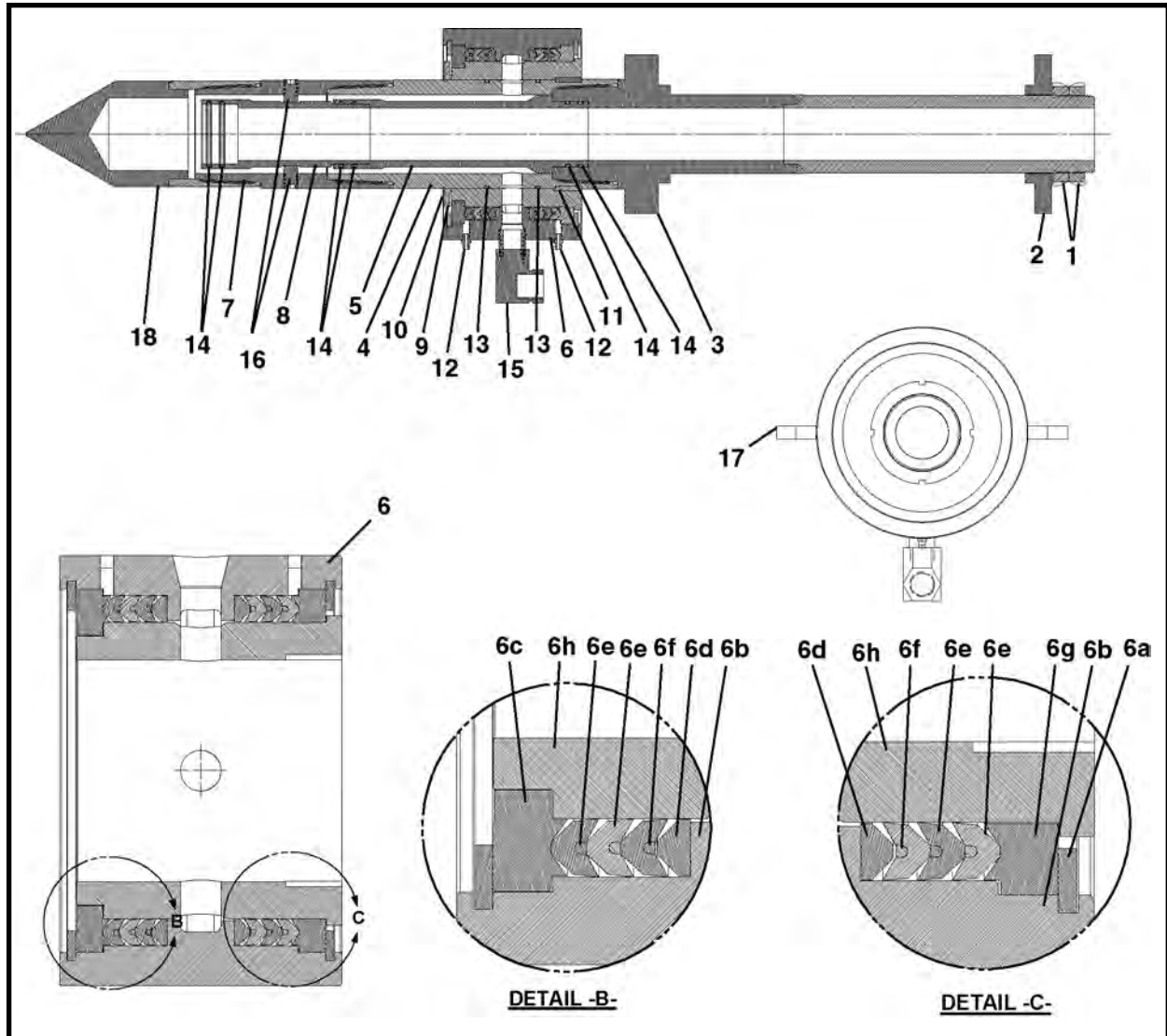


• VERSION 3

The swivel assembly has two lubrication ports (D) with an "A" stamped on top swivel plates (E) as shown. The parts breakdown is located on page 3-92.



DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F
VERSION 1 IDENTIFICATION: ONE LUBRICATION PORT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
1	2	P0065-170	NUT, Lock
2	1	A40556P	WASHER, Fluid Swivel
3	1	A40236A	SWIVEL, Drive Adapter
4	1	A40542P	TUBE, Outer - Swivel Mount
5	1	A40543P	TUBE, Inner - Swivel Mount
6	1	P0119-001	ASSEMBLY, Swivel (Includes items 6a - 6h)
6a	2	P0119-001B	RING, Snap
6b	1	NSS	HOUSING, Swivel
6c	1	P0119-001D	ADAPTER, Lower Packing
6d	2	P0119-001F	ADAPTER, Male
6e	4	P0119-001G	PACKING
6f	2	P0119-001K	PACKING
6g	1	P0119-001H	ADAPTER, Upper Packing
6h	1	P0119-001I	SPINDLE
7	1	A40544P	SUB SAVER
8	1	A40545P	TUBE, Inner - Sub Saver

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F
VERSION 1 IDENTIFICATION: ONE LUBRICATION PORT

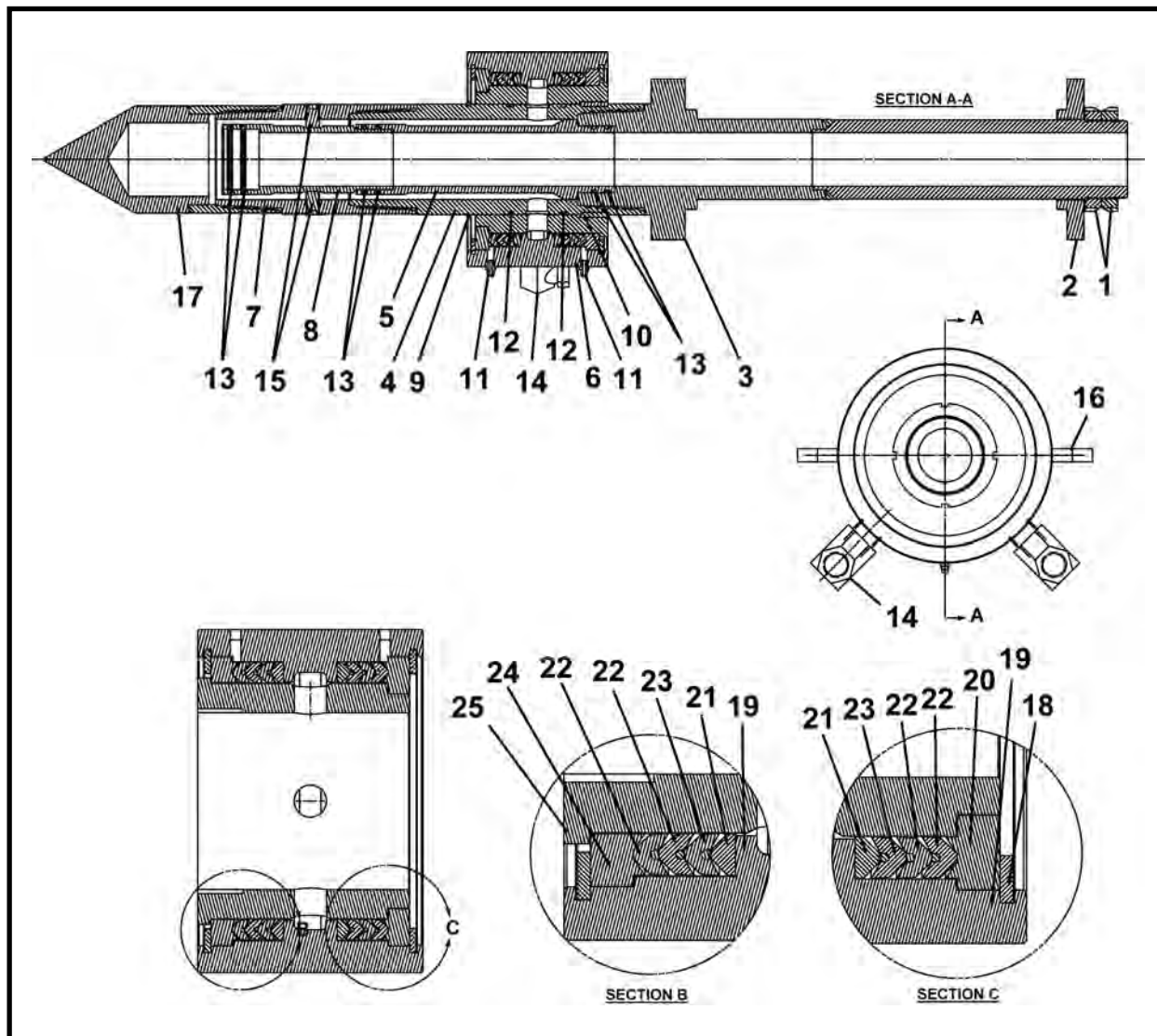
ITEM	QTY	PART NO.	DESCRIPTION
9	1	A40548P	RING, Retaining Swivel Mount
10	1	P0077-049	RING, Spiral External Snap
11	2	P0047-002	KEY
12	2	P0063-001	GREASE FITTING 1/4
13	2	P0085-241	ORING
14	6	P0085-228	ORING
15	1	P0300-034	FITTING, 90 Degree
16	2	P0033-08-016	SCREW, Set 1/2 UNC x 1
17	2	NSS	BAR, Swivel Retainer
18	1	A40253A	ALIGNMENT GUIDE

NSS - Not Sold Separately

NOTE: Lock pilot tube joints with Baker Lok, part number P0310-779 (on male threads only). DO NOT lock pilot tube to Alignment Guide, item 18.

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F

VERSION 2 IDENTIFICATION: TWO LUBRICATION PORTS



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
1	2	P0065-170	NUT, Lock
2	1	A40556P	WASHER, Fluid Swivel
3	1	A40236A	SWIVEL, Drive Adapter
4	1	A40542P	TUBE, Outer - Swivel Mount
5	1	A40543P	TUBE, Inner - Swivel Mount
6	1	P0119-002	ASSEMBLY, Swivel (Includes items 18-25)
7	1	A40544P	SUB SAVER
8	1	A40545P	TUBE, Inner - Sub Saver
9	1	P0077-049	RING, Spiral External Snap
10	2	P0047-002	KEY
11	2	P0063-001	GREASE FITTING 1/4
12	2	P0085-241	ORING
13	6	P0085-228	ORING
14	2	P0300-034	FITTING, 90 Degree
15	2	P0033-08-016	SCREW, Set 1/2 UNC x 1
16	2	NSS	BAR, Swivel Retainer

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F
VERSION 2 IDENTIFICATION: TWO LUBRICATION PORTS

ITEM	QTY	PART NO.	DESCRIPTION
17	1	A40253A	ALIGNMENT GUIDE
18*	2	P0119-001B	RING, Snap
19*	1	NSS	HOUSING, Swivel
20*	1	P0119-001D	ADAPTER, Lower Packing
21*	2	P0119-001F	ADAPTER, Male
22*	4	P0119-001G	PACKING
23*	2	P0119-001K	PACKING
24*	1	P0119-001H	ADAPTER, Upper Packing
25*	1	P0119-001I	SPINDLE

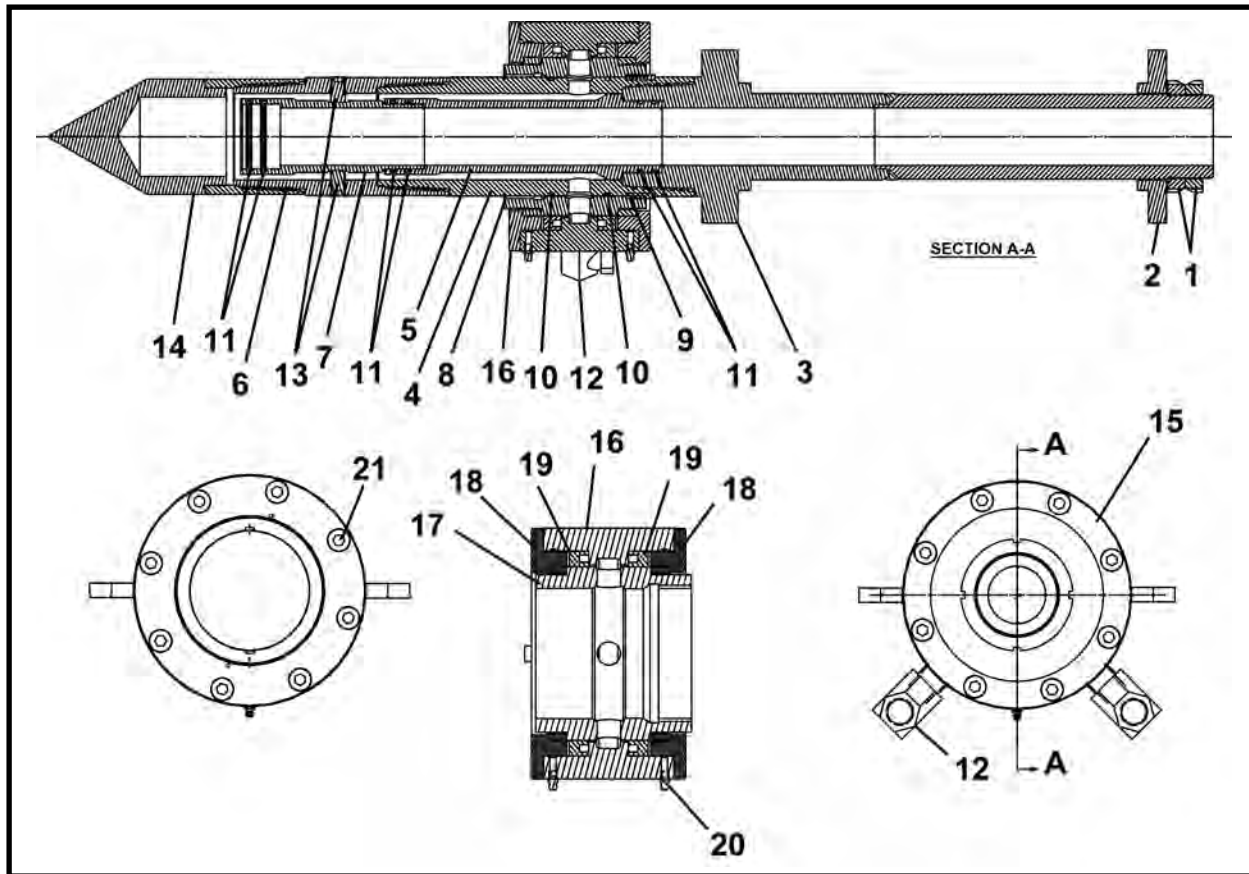
* Included in item 6, Swivel Assembly.

NSS - Not Sold Separately

NOTE: Lock pilot tube joints with Baker Lok, part number P0310-779 (on male threads only). DO NOT lock pilot tube to Alignment Guide, item 17.

DRIVE ADAPTER & SWIVEL ASSEMBLY, FA40235F

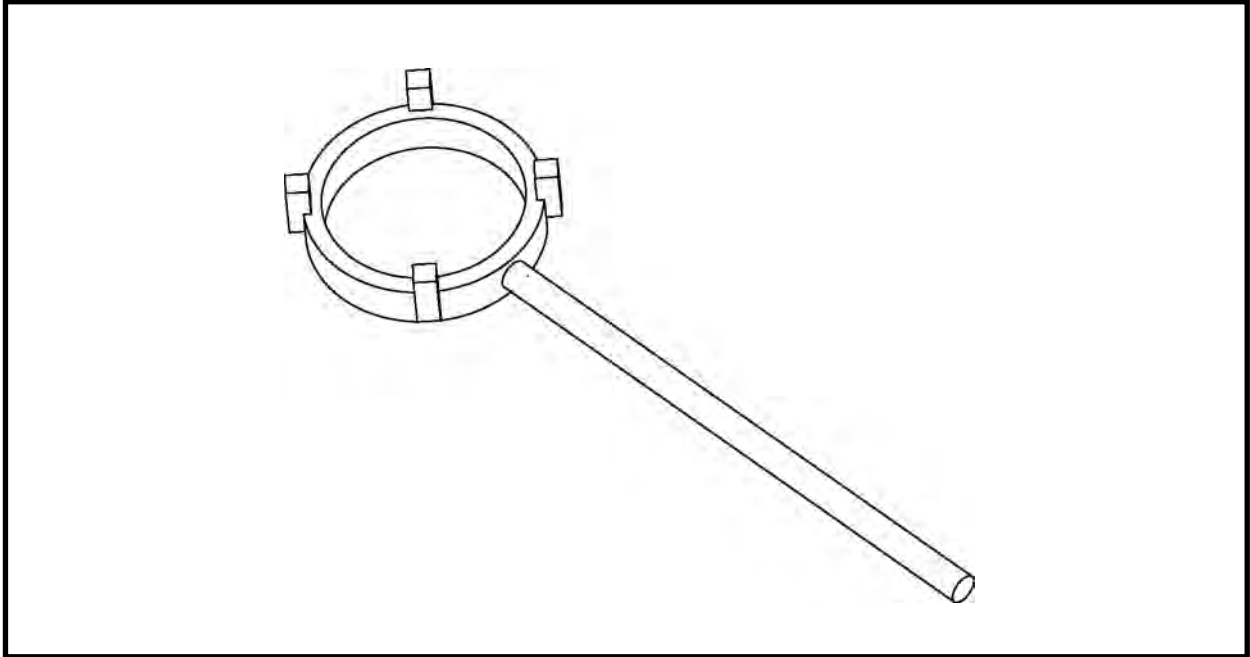
VERSION 3 IDENTIFICATION: TWO LUBRICATION PORTS WITH "A" STAMPED ON TOP SWIVEL PLATES



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40235F	DRIVE ADAPTER & SWIVEL ASSEMBLY
1	2	P0065-170	NUT, Lock
2	1	A40556P	WASHER, Fluid Swivel
3	1	A40236A	SWIVEL, Drive Adapter
4	1	A40542P	TUBE, Outer - Swivel Mount
5	1	A40543P	TUBE, Inner - Swivel Mount
6	1	A40544P	SUB SAVER
7	1	A40545P	TUBE, Inner - Sub Saver
8	1	P0077-049	RING, Spiral External Snap
9	2	P0047-002	KEY
10	2	P0085-241	ORING
11	6	P0085-228	ORING
12	2	P0300-198	FITTING, 12MB-08FPX90
13	2	P0033-08-014	SCREW, Set 1/2 UNC x .875
14	1	A40581P	ALIGNMENT GUIDE
15	1	A41547A	ASSEMBLY, Fluid Swivel (Includes items 16 - 21)
16	1	A41546A	WELDMENT, Outer Swivel
17	1	A41544P	SWIVEL, Inner
18	2	A41543A	ASSEMBLY, Plate-Swivel
19	2	P0065-211	SEAL, Rod
20	2	P0063-001	FITTING, Grease
21	16	P0030-06-003	SCREW, Flat Head Cap 3/8 UNC x .75

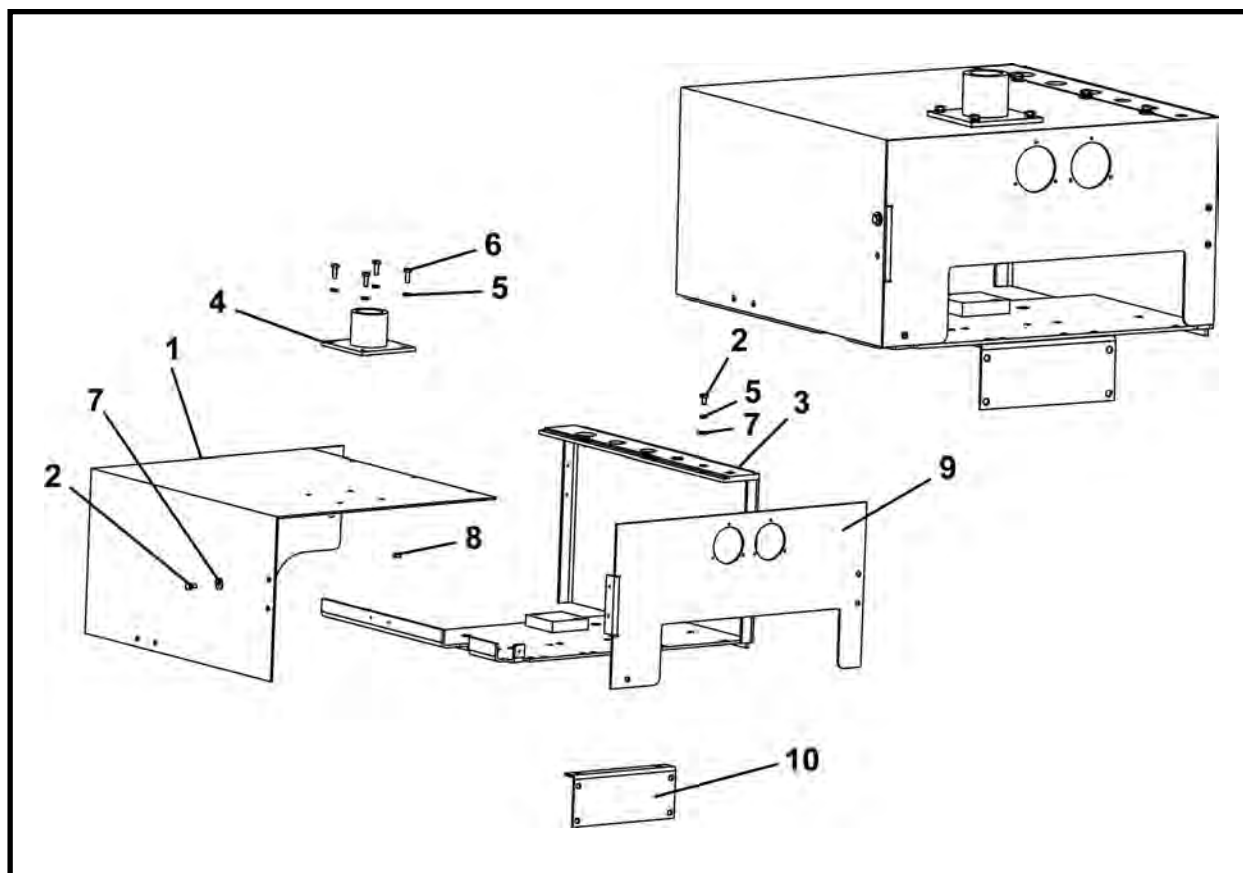
NOTE: Lock pilot tube joints with Baker Lok, part number P0310-779 (on male threads only). DO NOT lock pilot tube to Alignment Guide, item 14.

SPINDLE NUT WRENCH, A40740A



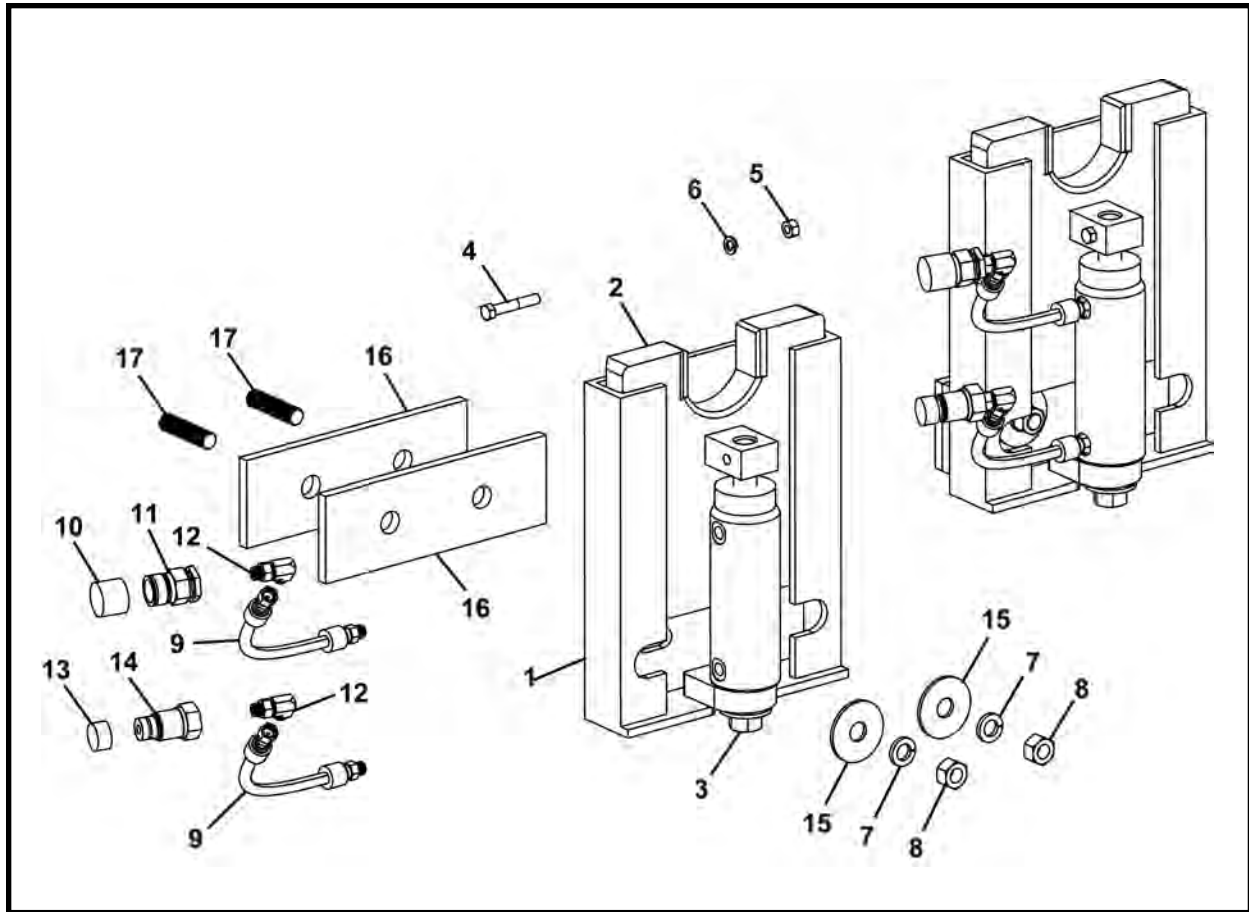
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40740A	WRENCH, Spindle Nut

VALVE COVER ASSEMBLY, A42481A
240A SINGLE STAGE FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42481A	VALVE COVER ASSEMBLY
1	1	A42497P	COVER, Top Valve
2	12	P0001-04-002	BOLT, Hex 1/4 UNC x .5
3	1	A42446A	WELDMENT, Valve Mounting Plate
4	1	A42030A	MOUNT, Bottom Monitor
5	7	P0045-004	WASHER, Lock 1/4
6	4	P0001-04-003	BOLT, Hex 1/4 UNC x .75
7	12	P0040-004	WASHER, Hardened Flat 1/4
8	4	P0003-04-000	NUT, 1/4
9	1	A42493P	COVER, Front Valve
10	1	A42471P	MOUNT, Pressure Reducing Valve

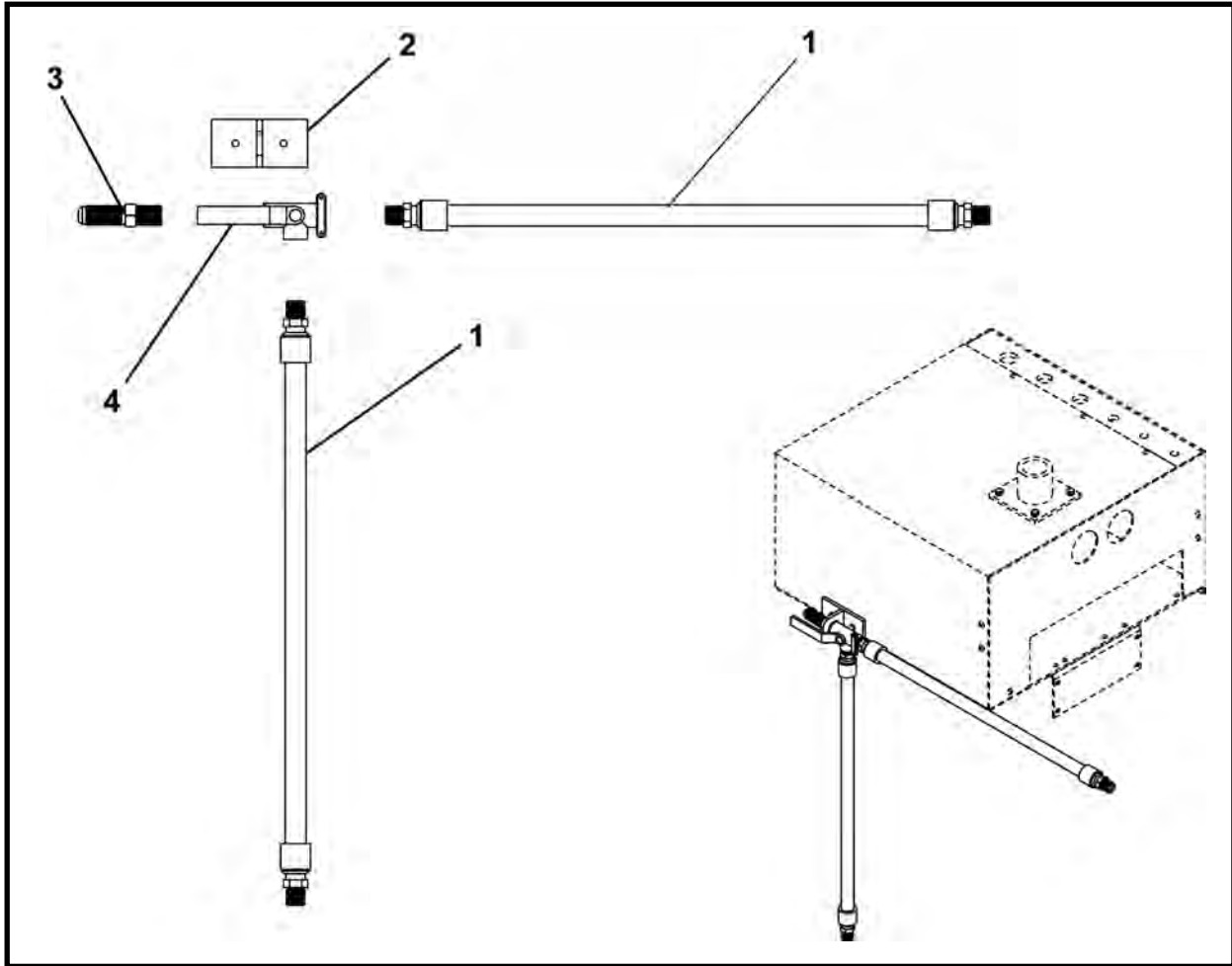
HYDRAULIC MAKEUP TOOL, A42430A **240A SINGLE STAGE FRAME**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42430A	HYDRAULIC MAKEUP TOOL
1	1	A42431A	HOUSING
2	1	A42437A	PLATE
3*	1	014603A00	CYLINDER
4	1	P0001-07-010	BOLT, Hex 7/16 UNC x 2.5
5	1	P0003-07-000	NUT, 7/16
6	1	P0045-007	WASHER, Lock 7/16
7	2	P0045-012	WASHER, Lock 3/4
8	2	P0003-12-000	BOLT, Hex 3/4 UNC x 2.5
9	2	A10348A-074	HOSE ASSEMBLY, 1/4 x 74
10	1	P0100-047A	PLUG, Dust
11	1	P0100-047	COUPLER, Female
12	2	P0300-311	FITTING, 04MFFOR-06MB90
13	1	P0100-046A	CAP, Dust
14	1	P0100-046	COUPLER, Female
15	2	004124P01	WASHER
16	2	A42453P	SPACER, Rubber
17	2	P0025-12-048	STUD

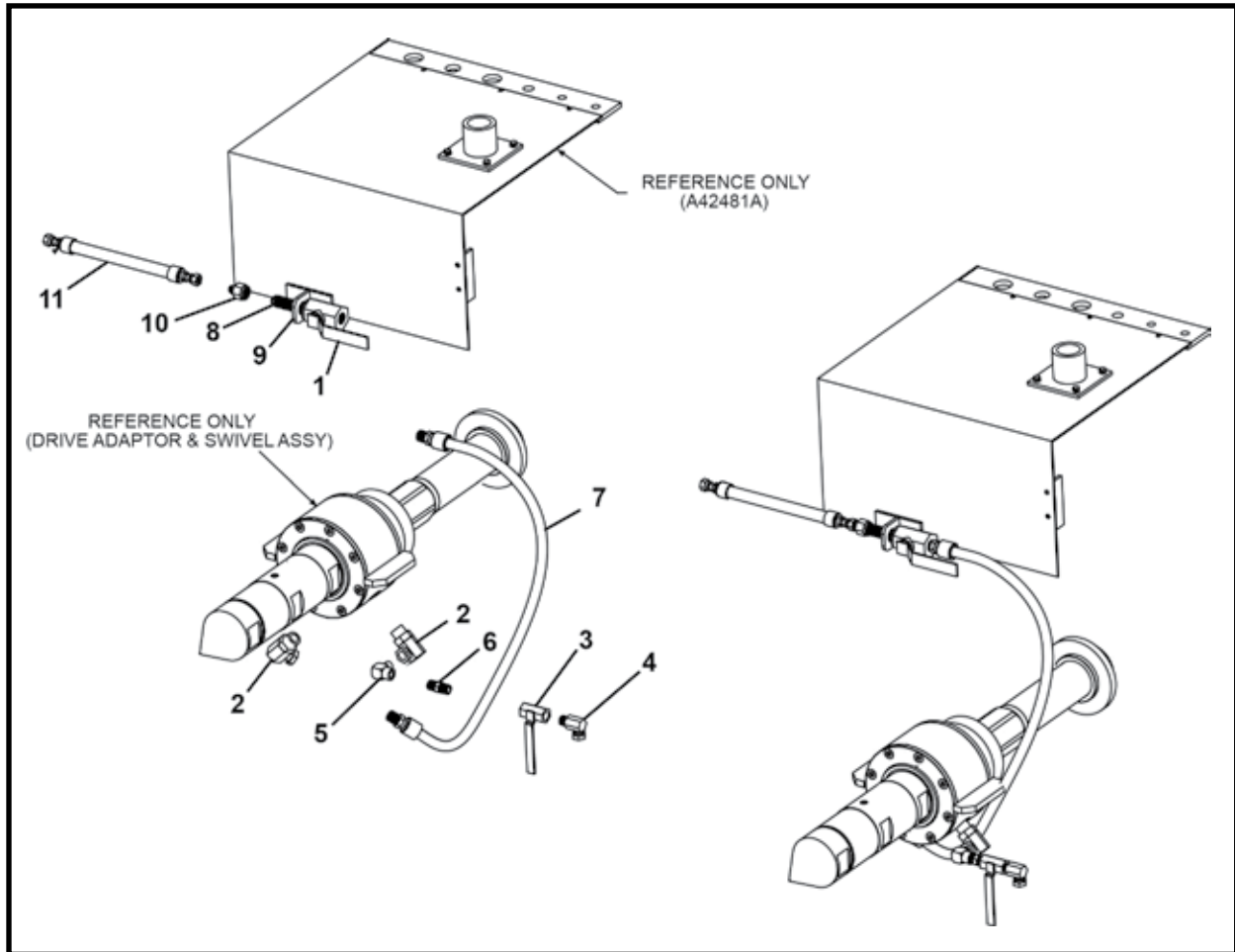
* Refer to section 10, Cylinders for parts information.

FLUID CONTROL ASSEMBLY WITH 3 WAY BALL VALVE, A43570A
240A SINGLE STAGE FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43570A	ASSEMBLY, Fluid Control
1	2	A10461A-036	HOSE ASSEMBLY, 1/2 x 36
2	1	A43569A	BRACKET, Fluid Control
3	1	P0300-567	FITTING, 10MJ-8MPKBHD
4	1	P0302-512	VALVE, 3 Way Ball

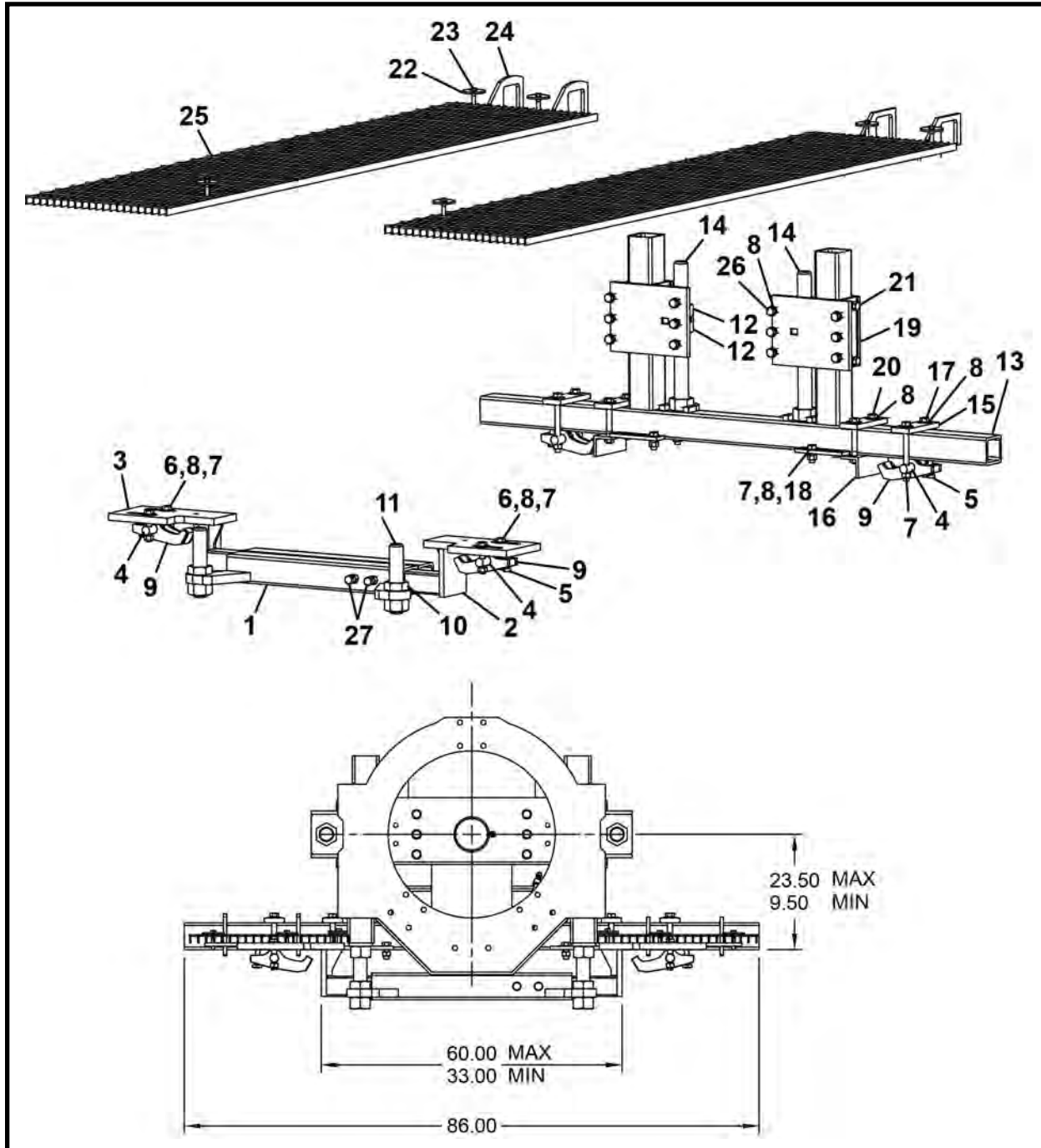
FLUID CONTROL ASSEMBLY WITH 2 WAY BALL VALVE, A43570A
240A SINGLE STAGE FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43570A	ASSEMBLY, Fluid Control
1	1	P0302-325	VALVE, 2 Way Ball
2	2	P0300-198	FITTING, 12MB-08FPX90
3	1	P0302-507	VALVE, Ball
4	1	P0300-160	FITTING, 06MP-06FPX90
5	1	P0300-017	FITTING, 08MP-06FP90
6	1	P0300-570	FITTING, 6MP-6MP
7	1	A10320A-039	HOSE ASSEMBLY, 1/2 x 39
8	1	P0300-567	FITTING, 10MJ-8MPKBHD
9	1	A43569A	BRACKET, Fluid Control
10	1	P0300-147	FITTING, 10FJ-06MJ
11	1	A10311A-012	HOSE ASSEMBLY, 3/8 x 12

UNIVERSAL ADAPTER SET ASSEMBLY, FA44781F

240A SINGLE STAGE FRAME

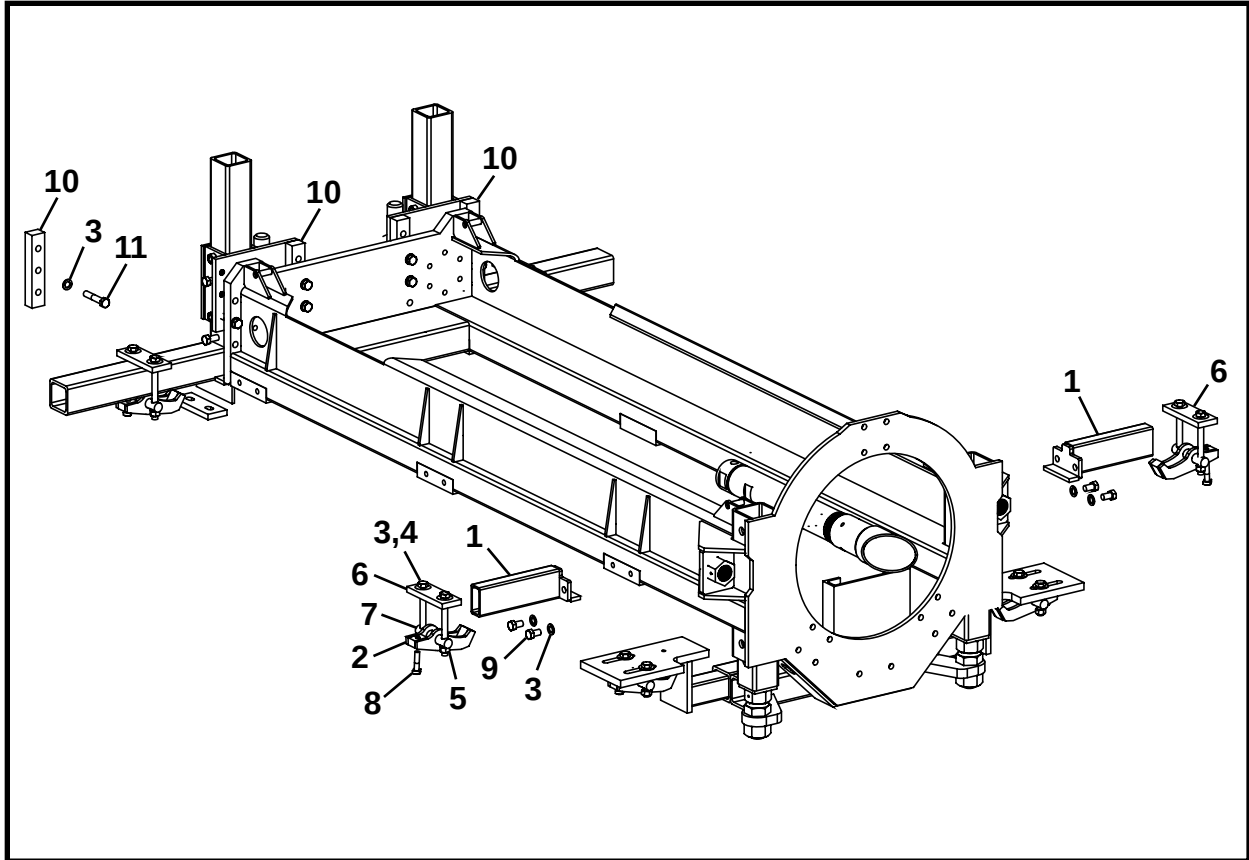


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA44781F	UNIVERSAL ADAPTER SET ASSEMBLY
1	1	A44885A	WELDMENT, Front Adapter
2	1	A44835A	WELDMENT, Front Leg Right
3	1	A44837A	WELDMENT, Front Leg Left
4	4	A44890P	PIN, Pivot Clamp
5	4	P0034-10-010	BOLT, Square Head 5/8 UNC x 2.5
6	4	P0001-12-016	BOLT, Hex 3/4 UNC x 4
7	16	P0003-12-000	NUT, 3/4
8	29	P0040-012	WASHER, Hardened Flat 3/4

UNIVERSAL ADAPTER SET ASSEMBLY, FA44781F
240A SINGLE STAGE FRAME

ITEM	QTY	PART NO.	DESCRIPTION
9	4	A44799A	CLAMP, Pivot
10	2	A44900P	NUT, Adapter Leg Set
11	2	A44763A	ROD, Leveling
12	4	P0005-32-000	NUT, Heavy Hex 2 x 4.5
13	1	A44790A	WELDMENT, Rear Adapter
14	2	A44798A	ROD, Adjustment
15	4	A44801P	PLATE, Clamp Mounting
16	2	A44802P	ANGLE, Adapter
17	4	P0001-12-032	BOLT, Hex3/4 UNC x 8
18	4	P0001-12-008	BOLT, Hex 3/4 UNC x 2
19	2	A44891A	PAD, Rear Support
20	4	P0001-12-024	BOLT, Hex 3/4 UNC x 6
21	8	P0001-12-006	BOLT, Hex 3/4 UNC x 1.5
22	6	003640P00	WASHER, Steering Link
23	6	P0001-08-010	BOLT, Hex 1/2 UNC x 2.5
24	4	A44899A	SUPPORT, Grate
25	2	A41015P	GRATE
26	12	P0001-12-010	BOLT, Hex 3/4 UNC x 2.5
27	4	P0001-12-007	BOLT, Hex 3/4 UNC x 1.75

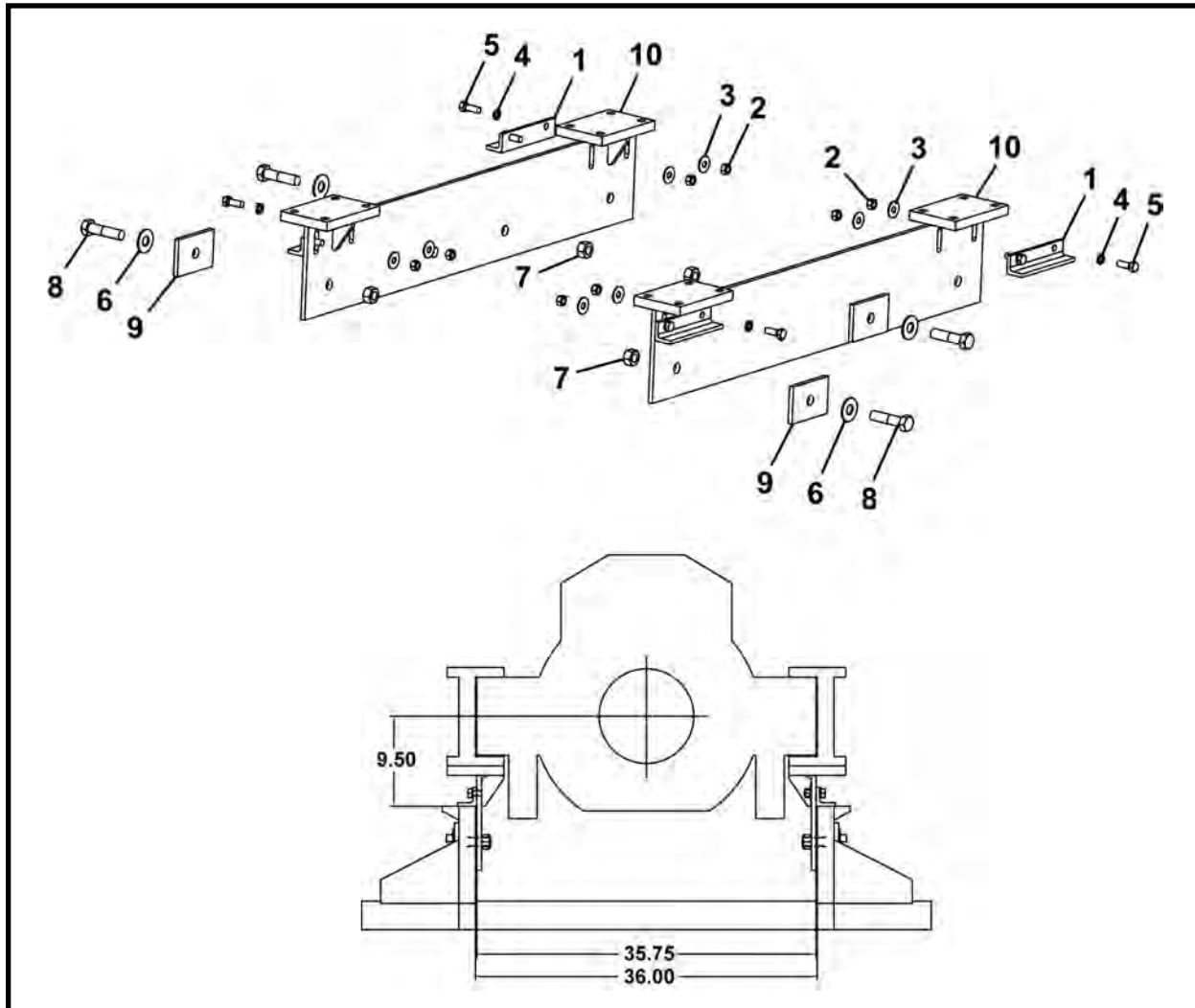
36" BARBCO KIT, A44755A
240A SINGLE STAGE FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44755A	BARBCO KIT, 36" - AUGER BORE
1	2	A44750A	TUBE, Clamp
2	2	A44799A	CLAMP, PIVOT CLAMP
3	16	P0040-012	WASHER, Hardend Flat 3/4
4	4	P0001-12-032	BOLT, 3/4 UNC x 8
5	4	P0003-12-000	NUT, Hex 3/4 UNC
6	2	A44801P	MOUNT, Clamp
7	2	A44890P	PIN, Pivot Clamp
8	2	P0034-10-010	SCREW, Square Head Set 5/8 UNC x 2.5
9	4	P0001-12-004	SCREW, Hex 3/4 UNC x 1.25
10	4	A44754P	BAR, Spacer
11	8	P0001-12-016	BOLT, Hex 3/4 UNC x .75

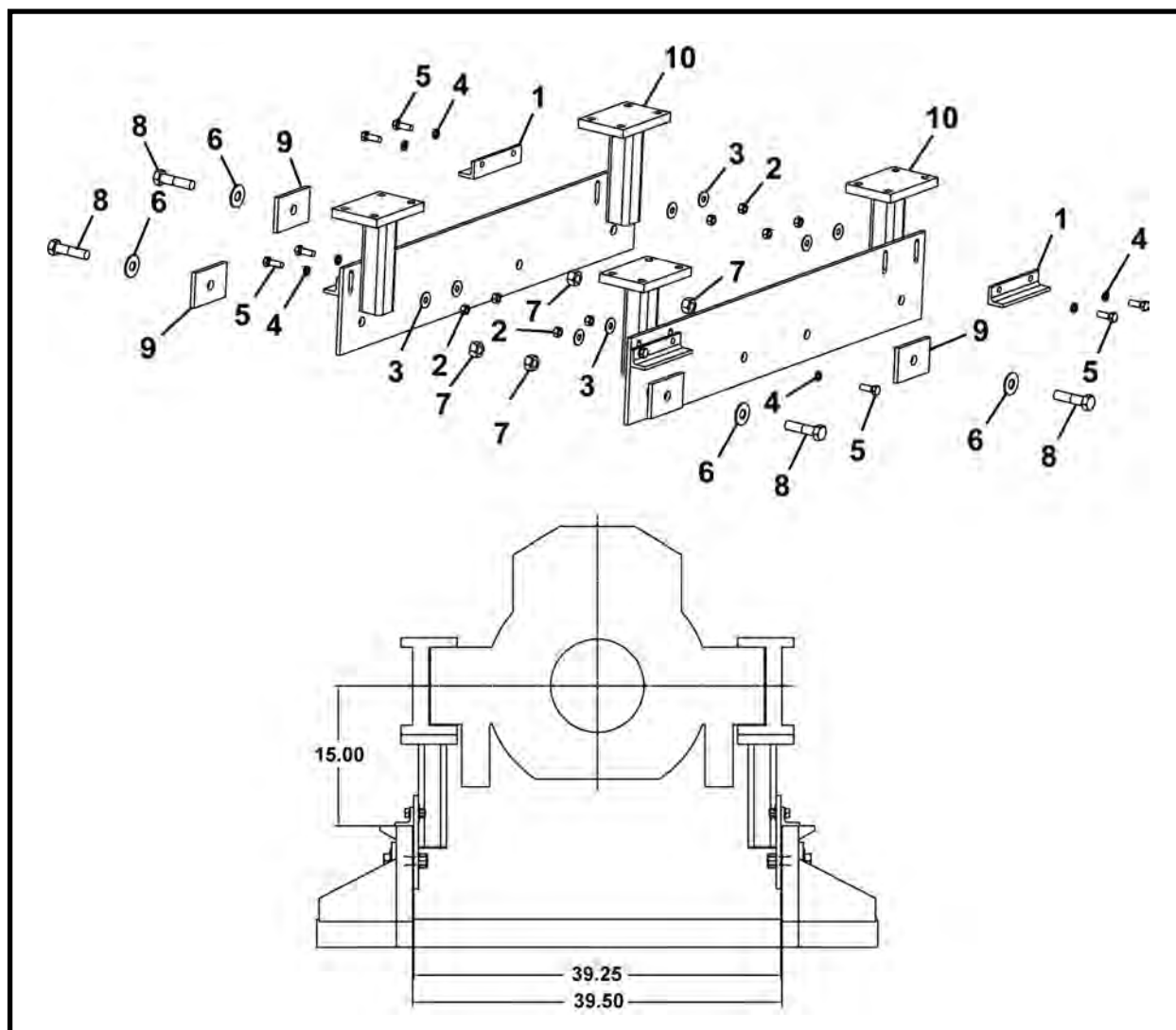
NOTES

ADAPTER BRACKET, AMERICAN AUGERS 36, FA41050F
308A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA41050F	ADAPTER BRACKET, American Augers 36
1	4	A41053P	BRACKET, Angle
2	8	P0003-10-000	NUT, 5/8
3	8	P0040-010	WASHER, 5/8
4	8	P0045-010	WASHER, Lock
5	8	P0001-10-007	BOLT, 5/8 UNC x 1.75
6	4	P0040-016	WASHER, Flat 1
7	4	P0003-16-000	NUT, 1
8	4	P0001-16-016	BOLT, 1 UNC x 4
9	4	A41054P	PLATE, Pocket
10	2	A41055A	WELDMENT, Adapter Bracket

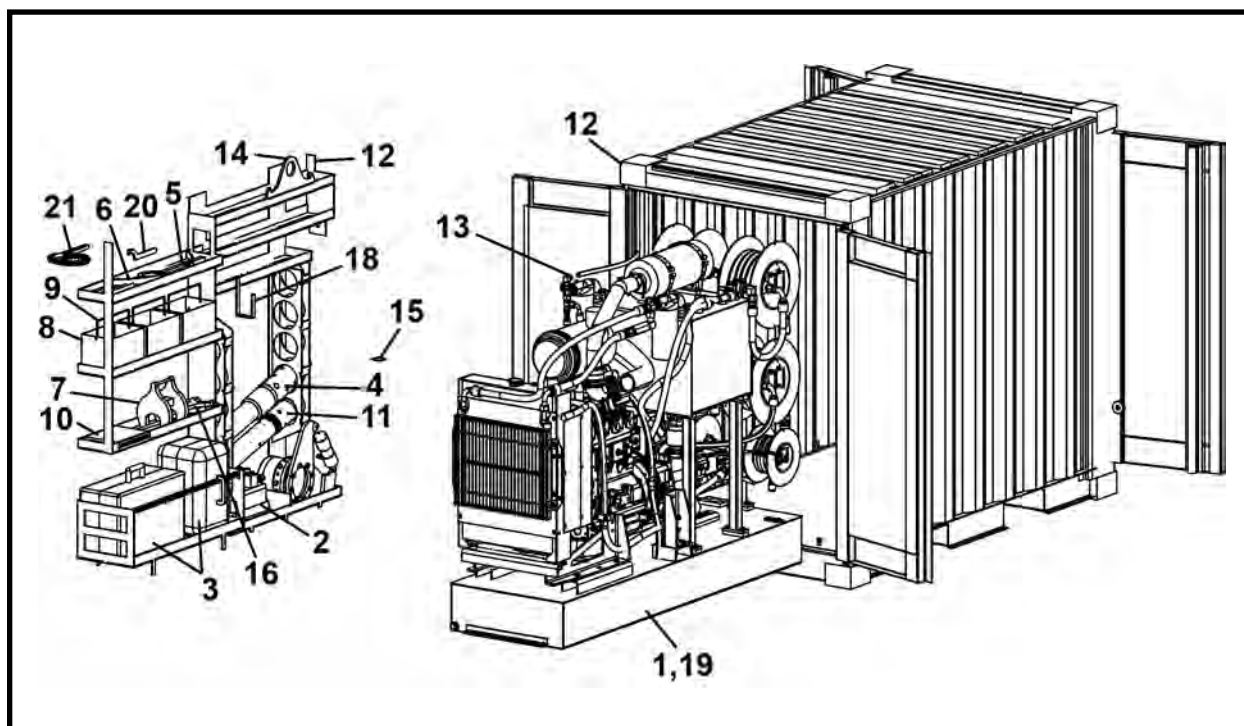
ADAPTER BRACKET, AMERICAN AUGERS 48, FA41040F
308A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA41040F	ADAPTER BRACKET, American Augers 36
1	4	A41053P	BRACKET, Angle
2	8	P0003-10-000	NUT, 5/8
3	8	P0040-010	WASHER, 5/8
4	8	P0045-010	WASHER, Lock
5	8	P0001-10-007	BOLT, 5/8 UNC x 1.75
6	4	P0040-016	WASHER, Flat 1
7	4	P0003-16-000	NUT, 1
8	4	P0001-16-016	BOLT, 1 UNC x 4
9	4	A41054P	PLATE, Pocket
10	2	A41041A	WELDMENT, Adapter Bracket

NOTES

P100Q POWER PACK ASSEMBLY, FA42440F
P100Q POWER PACK



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42440F	P100Q POWER PACK ASSEMBLY
1*	1	A42651A	ASSEMBLY, P100Q Power Unit
2^	1	+FA40230F	DUAL TUBE BREAKOUT TOOL
3.1*	REF	FA42035F	ASSEMBLY, Guidance System G3
3.2*	REF	FA47260F	ASSEMBLY, Guidance System G4
4^	1	FA41403F	ADAPTER, Pilot Tube
5^	1	FA40482F	SCRAPER, Pilot Tube
6^	2	A40118P	PILOT TUBE SUPPORT BAR
7^	1	FA42240F	ASSEMBLY, Break-out Tool Launch
8	3	A42686P	BASKET
9	3	A42687P	HANDLE, Basket
10	1	050023A	KIT, P100Q Manual
11^	1	FA40245F	STEERING HEAD
12*	1	A42786A	ASSEMBLY, Container Group
13**	1	A42683A	ASSEMBLY, P100Q Hydraulic
14^	1	A40540P	HOLDER, Pilot Tube Lifting Bar
15	25	P0085-228	ORING
16	1	FA40244F	GBM Wrench Set (Includes items 17a - 17c)
16a	1	A40583P	WRENCH, 3-5/8 Opening x 12
16b	1	A40584P	WRENCH, 3-5/8 Opening x 24
16c	1	A40515P	WRENCH, Shaft Tensioner 3-1/8 Opening
17.1***	1	A42048A	ASSEMBLY, P100Q Electrical (SN FA42440F-75 & Before)
17.1a*	1	A43765A	ASSEMBLY, E-Stop
17.2***	1	A47021A	ASSEMBLY, P100/P150 Electrical (SN FA42440F-76 & After)
18	1	A47097P	BRACKET, Hose
19	30 Gal	P0126-052	FUEL, Diesel
20	1	F0095-103	WRENCH, Spanner 4"
21	1	F0095-105	WRENCH, Chain 5"

* Refer to this section for parts information.

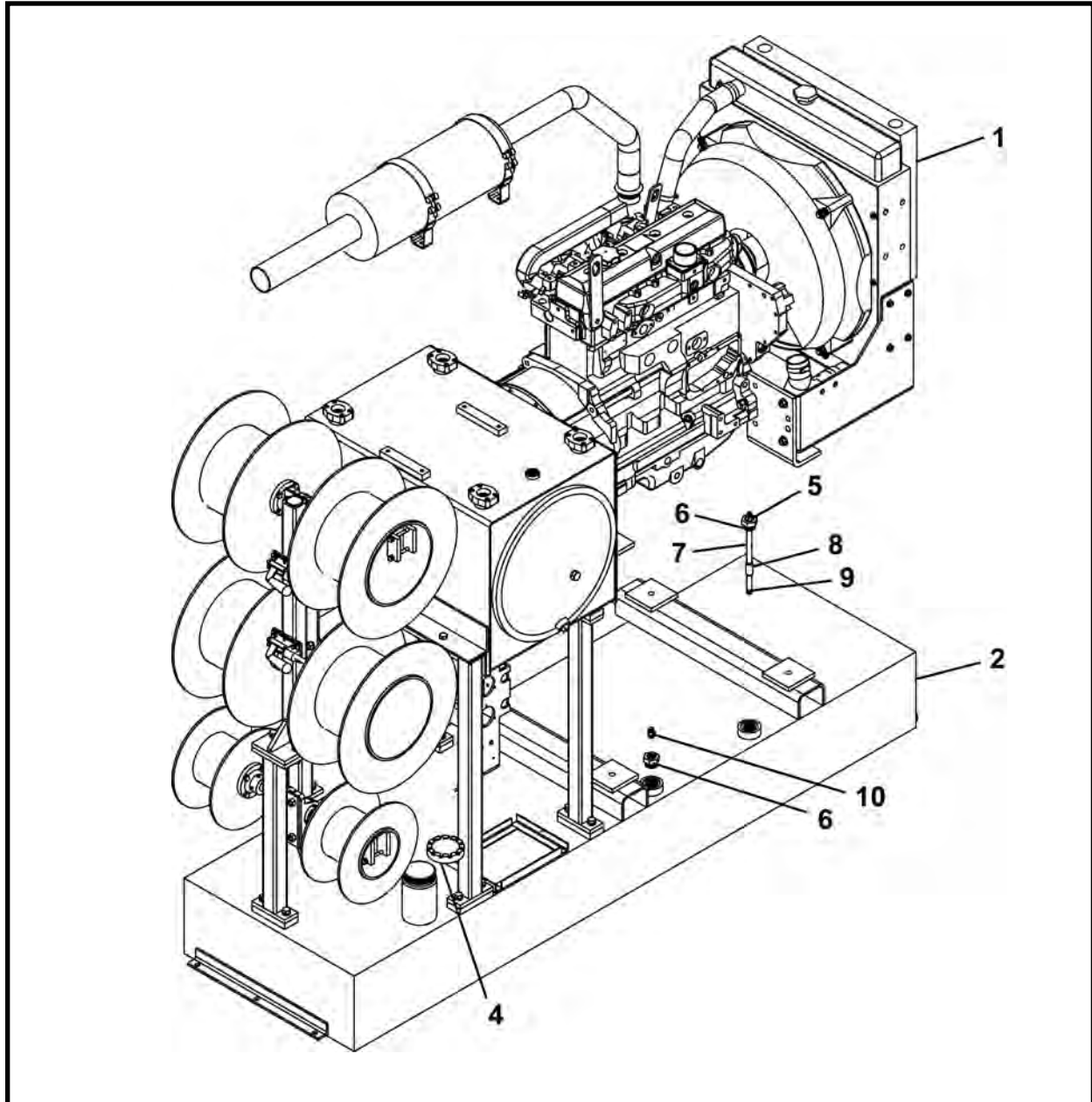
** Refer to section 6, Hydraulics for parts information.

*** Not Shown. For parts information, refer to section 5, Electrical.

^ Refer to section 11, Miscellaneous/Tooling for parts information.

+ Optional 230 Volt Breakout Tool (FA40221F) is available.

P100Q POWER UNIT ASSEMBLY, A42651A
P100Q POWER PACK (SN FA42440F-73 & BEFORE)



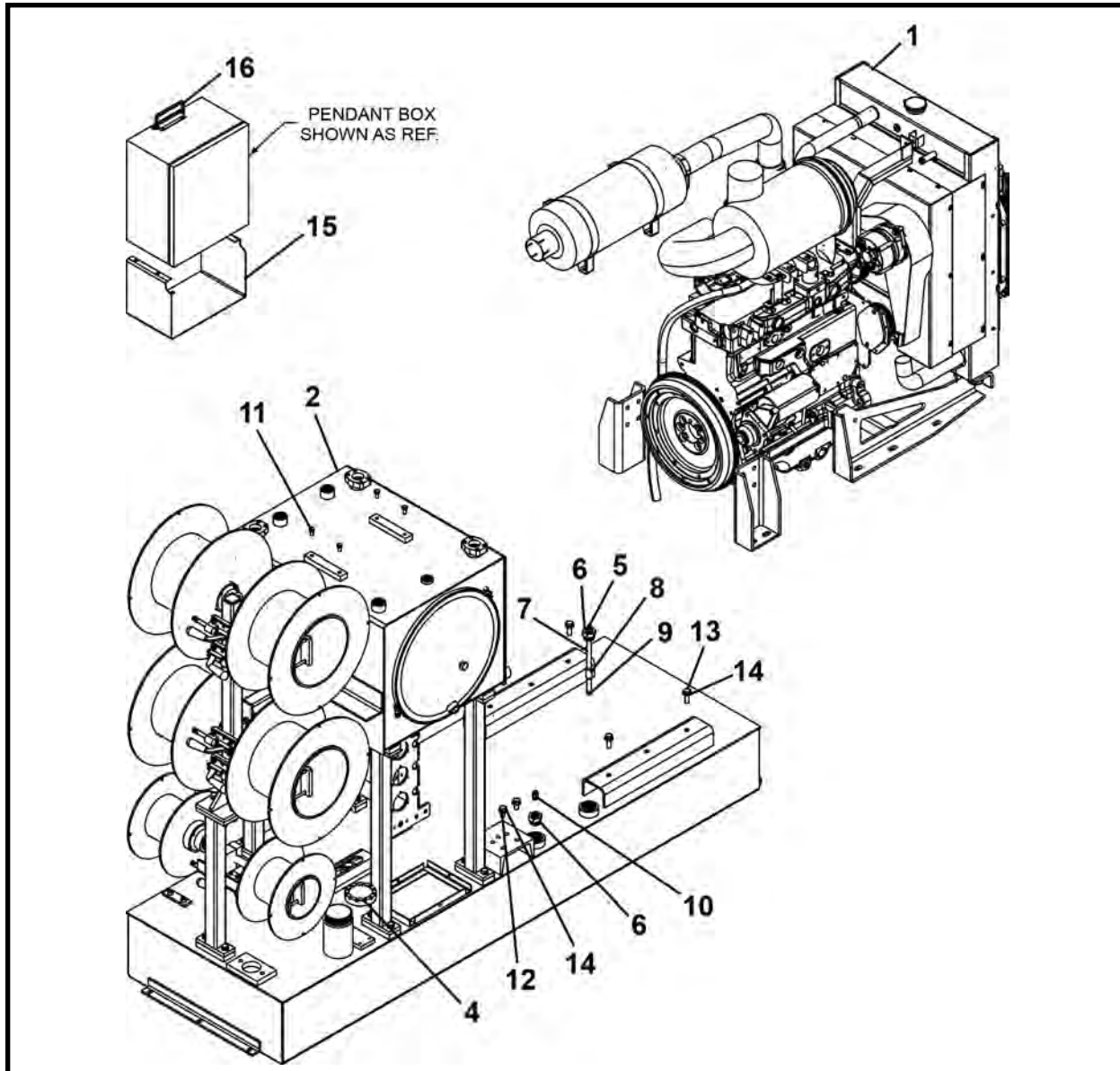
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42651A	P100Q POWER UNIT ASSEMBLY
1*	1	P0125-119	ENGINE, 99HP (Tier II)
2.1*	1	A42787A	POWER UNIT, P100Q (Three Hose Reel Controls)
2.2*	1	A43587A	POWER UNIT, P100Q (Six Hose Reel Controls)
3**	1	003060A00	TIE DOWN, 20"
4	1	P0125-123	CAP, Diesel Fuel
5	1	P0300-245	FITTING, 04MJ-06MB
6	2	A42563P	FITTING, Fuel Tank
7	1	P0403-010	NIPPLE
8	1	P0400-001	COUPLING, Pipe
9	1	P0403-005	NIPPLE
10	1	P0300-041	FITTING, 06MJ-06MB

* Refer to this section for parts information.

** Not Shown

P100Q POWER UNIT ASSEMBLY, A42651A

P100Q POWER PACK (SN FA42440F-74 & AFTER)

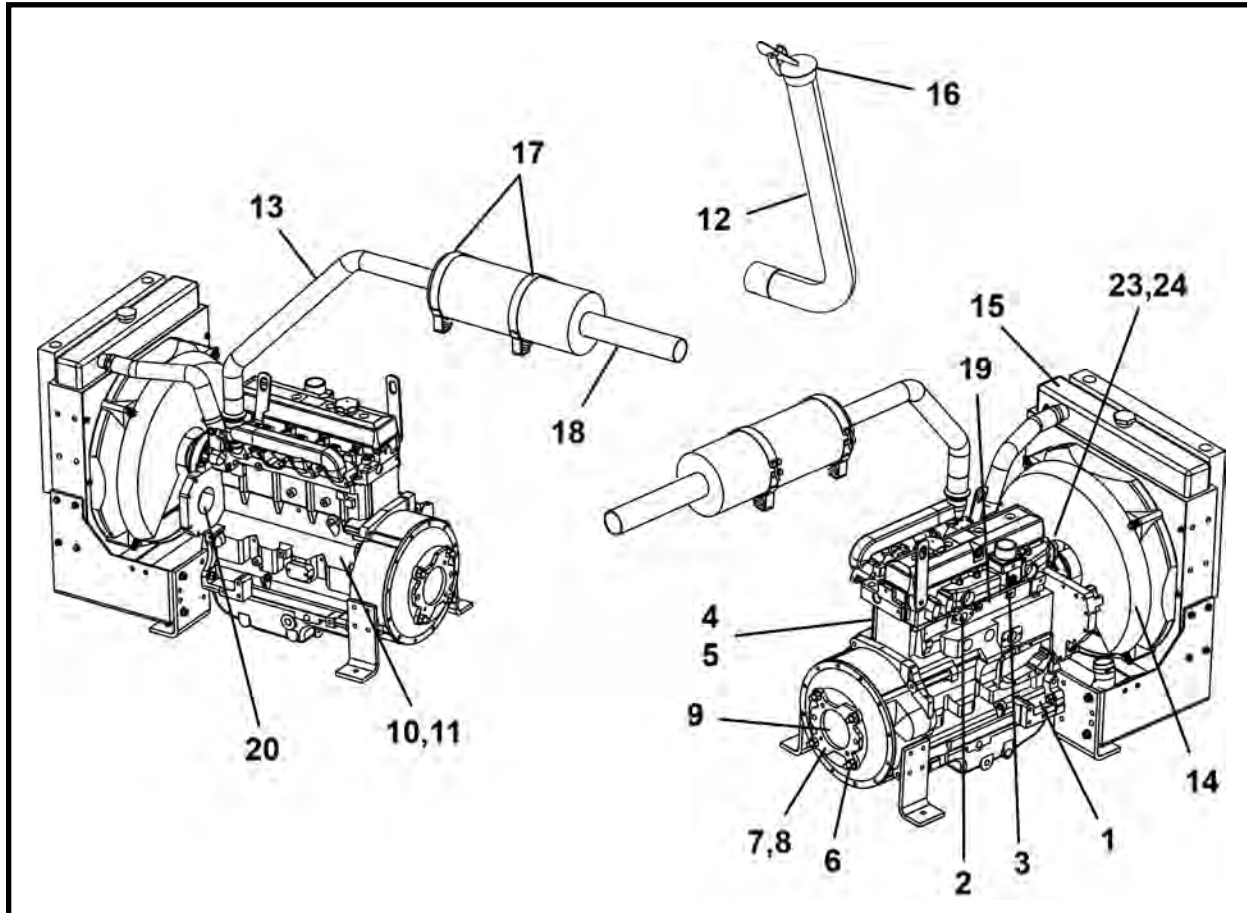


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42651A	P100Q POWER UNIT ASSEMBLY
1*	1	P0125-135	ENGINE, 99HP (Tier III)
2*	1	A45858A	POWER UNIT BASE, P100Q/P150Q
3**	7	003060A00	TIE DOWN, 20"
4	1	P0125-123	CAP, Diesel Fuel
5	1	P0300-245	FITTING, 04MJ-06MB
6	2	A42563P	FITTING, Fuel Tank
7	1	P0403-010	NIPPLE
8	1	P0400-001	COUPLING, Pipe
9	1	P0403-005	NIPPLE
10	1	P0300-041	FITTING, 06MJ-06MB
11	4	P0001-06-003	BOLT, 3/8 UNC x .75
12	4	P0001-08-004	BOLT, 1/2 UNC x 1
13	4	P0001-08-006	BOLT, 1/2 UNC x 1.5
14	8	P0040-008	WASHER, Hardened Flat 1/2
15	1	A44234P	STAND, Control Box
16	1	P0059-022	HANDLE

* Refer to this section for parts information.

** Not Shown

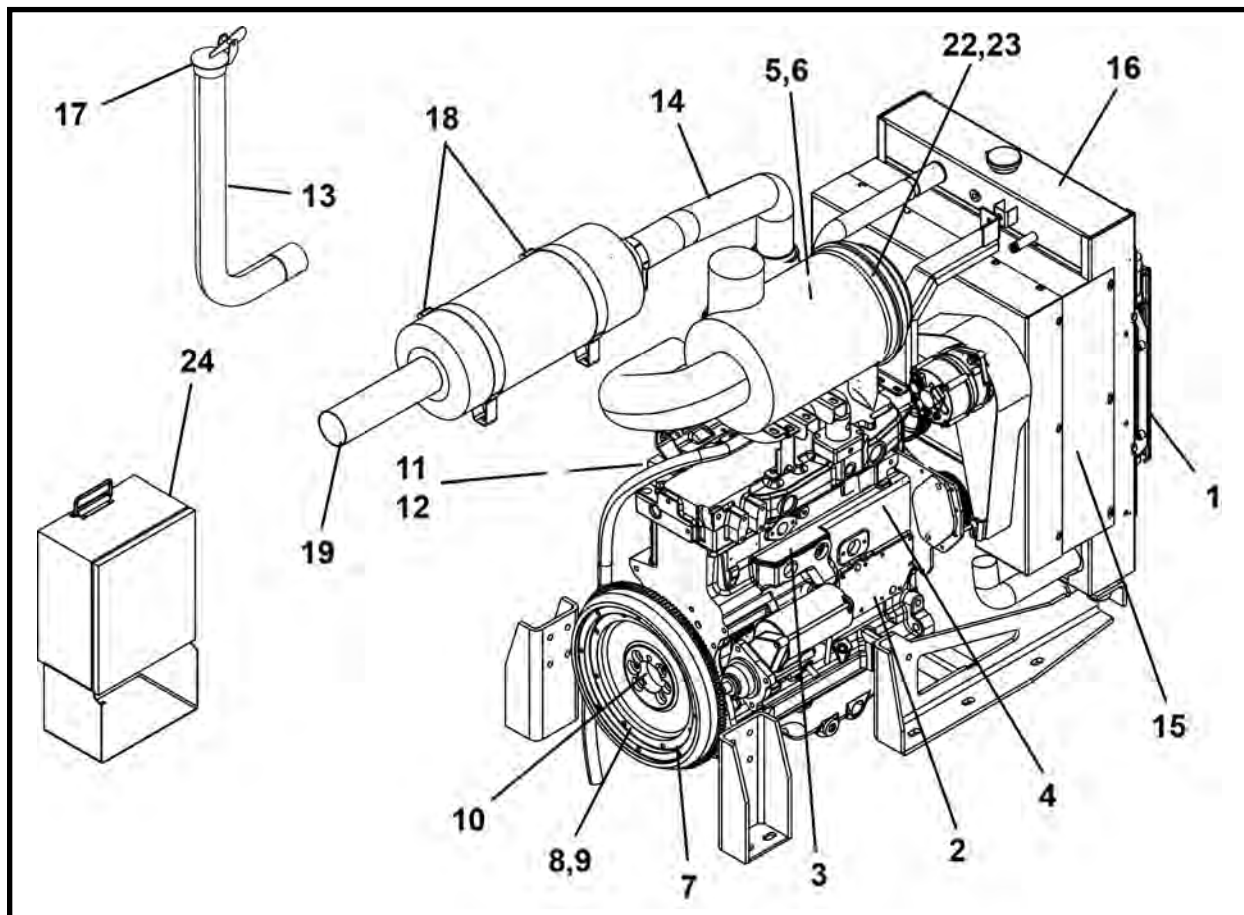
ENGINE, 99HP, P0125-119 (TIER II)
P100Q POWER PACK (SN FA42440F-73 & Before)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0125-119	ENGINE, 99 HP (Tier II)
1	1	P0125-119A	FILTER, Oil
2	1	P0125-119B	FILTER, Final Fuel
3	1	P0125-119C	FILTER, Main Fuel
4	1	P0125-119D	FILTER, Main Air
5	1	P0125-119E	FILTER, Safety Air
6	1	P0125-119F	BOLTS FOR B PAD
7	1	P0125-119G	PUMP ADAPTER FOR B PAD
8	1	P0125-119H	ORING ADAPTER FOR B PAD
9	1	P0125-119I	SHAFT, Drive Coupler For B Pad
10	1	P0125-119J	STARTER
11	1	P0125-119K	STARTER RELAY
12	1	P0125-119L	TUBE, Exhaust Exit
13	1	P0125-119M	TUBE, Turbo To Muffler
14	1	P0125-119N	KIT, Fan
15	1	P0125-119S	RADIATOR
16	1	P0125-119V	RAINCAP
17	2	P0125-119W	CLAMP, Muffler Mounting
18	1	P0125-119X	TUBE, Exhaust Extension
19	1	P0125-119Y	PUMP, Fuel Transfer
20	1	P0125-119Z	PUMP, Fuel Injection
21*	1	P0125-119AD	COVER, Air Cleaner
22*	3	P0125-119AE	CLIP, Air Cleaner Cover
23	1	P0125-119AG	ALTERNATOR
24	1	P0125-119AH	BELT, Fan

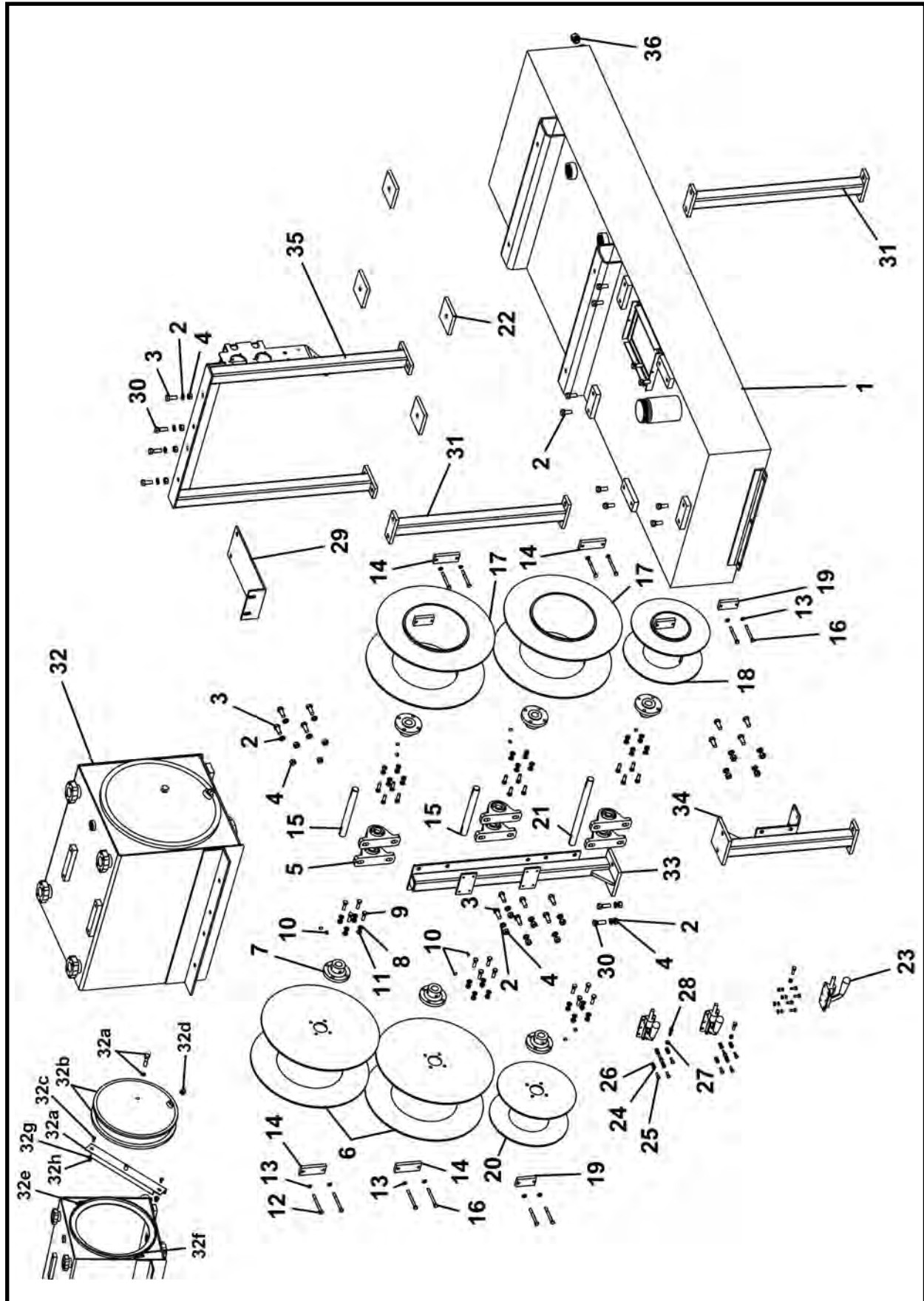
* Not Shown

ENGINE, 99HP, P0125-135 (TIER III)
P100Q POWER PACK (SN FA42440F-74 & After)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0125-135	ENGINE, 99 HP (Tier III)
1	1	P0125-121B	OIL COOLER
2	1	P0125-119A	FILTER, Oil
3	1	P0125-124B	FILTER, Final Fuel
4	1	P0125-124A	FILTER, Main Fuel
5	1	P0125-119D	FILTER, Main Air
6	1	P0125-119E	FILTER, Safety Air
7	1	P0125-119F	BOLTS FOR B PAD
8	1	P0125-119G	ADAPTER, Pump, For B Pad
9	1	P0125-119H	ADAPTER, Oring, For B Pad
10	1	P0125-119I	SHAFT, Drive Coupler, For B Pad
11	1	P0125-132C	STARTER
12	1	P0125-119K	STARTER RELAY
13	1	P0125-119L	TUBE, Exhaust Exit
14	1	P0125-135C	TUBE, Turbo To Muffler
15	1	P0125-135D	KIT, Cooling Package
16	1	P0125-135E	RADIATOR
17	1	P0125-119V	RAINCAP
18	2	P0125-132G	CLAMP, Muffler Mounting
19	1	P0125-119X	TUBE, Exhaust Extension
20	1	P0125-132H	PUMP, Fuel Transfer (Not Shown)
21	1	P0125-132I	PUMP, Fuel Injection (Not Shown)
22	1	P0125-119AD	COVER, Air Cleaner
23	3	P0125-132K	CLIP, Air Cleaner Cover
24	1	P0125-124N	CONTROL PANEL & 50' Cord (Includes items 24a - 24d)
24a	1	P0125-124S	CORD, 50'
24b	1	P0125-150	KEY, Pendant
24c	1	P0125-135A	PANEL, Instrument
24d	1	P0125-135B	SWITCH, Rocker

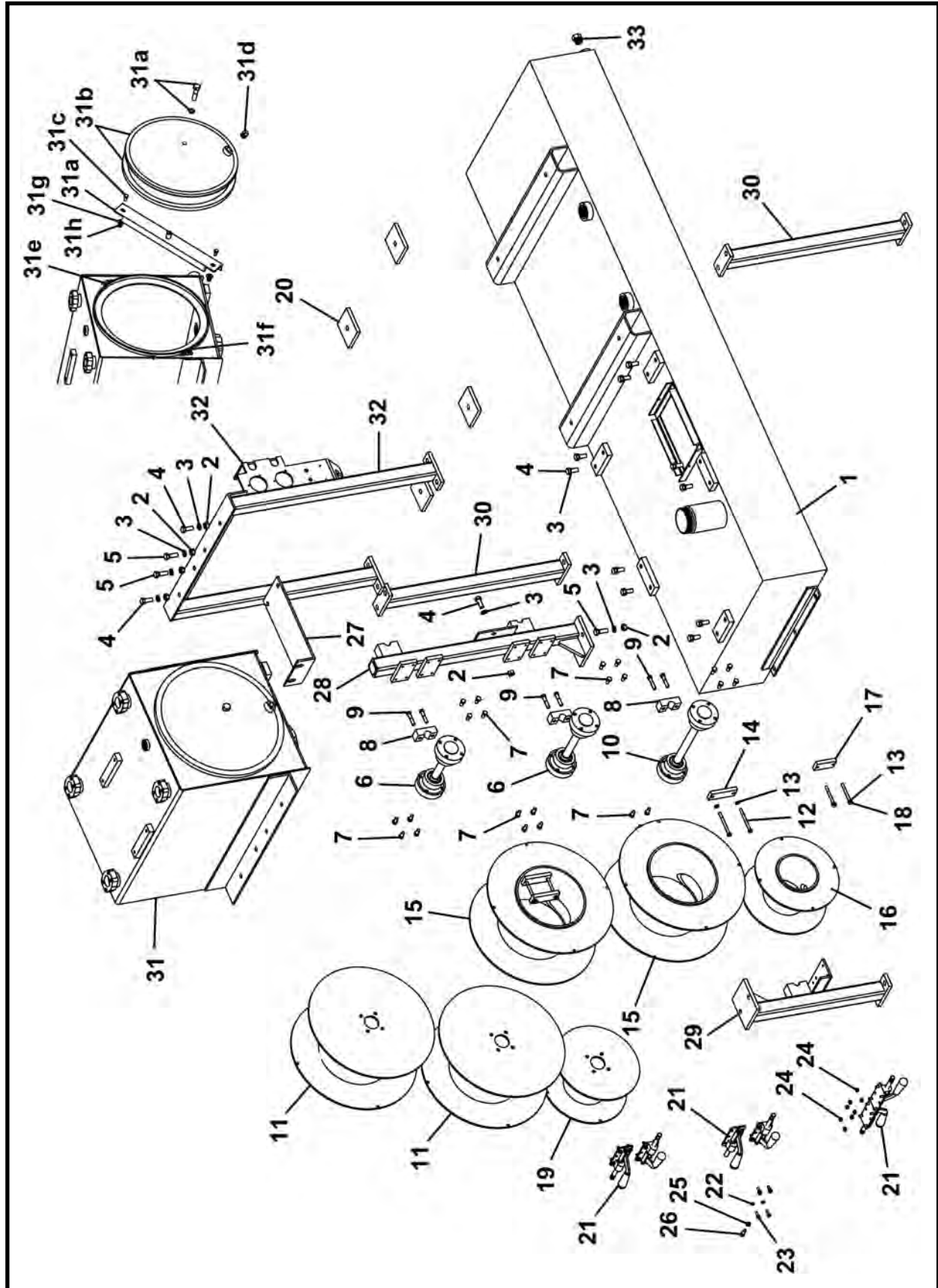
POWER UNIT ASSEMBLY (THREE HOSE REEL CONTROLS), A42787A
P100Q POWER PACK (SN FA42440F-44, 42 & BEFORE)



POWER UNIT ASSEMBLY (THREE HOSE REEL CONTROLS), A42787A
P100Q POWER PACK (SN FA42440F-44, 42 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42787A	ASSEMBLY, Power Unit
1	1	A42575A	ASSEMBLY, Fuel Reservoir
2	30	P0045-008	WASHER, Lock 1/2
3	26	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25
4	20	P0003-08-000	NUT, 1/2
5	6	P0065-015	BEARING, Pillow Block
6	2	A42624A	REEL, Left 3/4
7	6	A42620P	HUB, Spool
8	24	P0045-006	WASHER, Lock 3/8
9	24	P0001-06-005	BOLT, Hex 3/8 UNC x 1.25
10	12	P033-05-006	SCREW, Socket Set 5/16 x .375
11	24	P0003-06-000	NUT, 3/8
12	8	P0001-05-014	BOLT, Hex 5/16 UNC x 3.5
13	12	P0045-005	WASHER, Lock 5/16
14	4	A42521P	PLATE, Mounting
15	2	A42621P	ROD, Short Reel
16	4	P0001-05-012	BOLT, Hex 5/16 UNC x 3
17	2	A42610A	REEL, Right 3/4
18	1	A42623A	REEL, Right 3/8
19	2	A42518P	PLATE, Mounting
20	1	A42618A	REEL, Left 3/8
21	1	A42622P	ROD, Long Reel
22	4	A42609P	PLATE, Engine Spacer
23	3	P0059-061	CLAMP, Toggle
24	12	P0045-004	WASHER, Lock 1/4
25	12	P0001-04-003	BOLT, Hex 1/4 UNC x .75
26	12	P0003-04-000	NUT, 1/4
27	3	P0003-05-000	NUT, 5/16
28	3	P0001-05-004	BOLT, Hex 5/16 UNC x 1
29	1	A42773P	SUPPORT, Side
30	4	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
31	2	A42542A	WELDMENT, Tank Leg
32	1	A42544A	TANK, Hydraulic
32a	1	P0308-104	BRACKET, End Cover
32b	1	P0308-105	KIT, End Cover (Includes item 32b1)
32b1	1	P0308-105A	Gasket
32c	2	P0001-06-003	BOLT, 3/8 UNC x .75
32d	1	P0416-004	PLUG, Square Head 3/4
32e	1	P0201-218	CLAMP, Tube
32f	1	P0201-224	CLAMP, Hose
32g	2	P0040-006	WASHER, Hardened Flat 3/8
32h	2	P0003-06-000	NUT, 3/8
33	1	A42778A	SUPPORT, Upper Vertical
34	1	A42780A	SUPPORT, Lower Vertical
35	1	A42775A	STAND, Tank
36	1	P0300-060	PLUG, 10MB

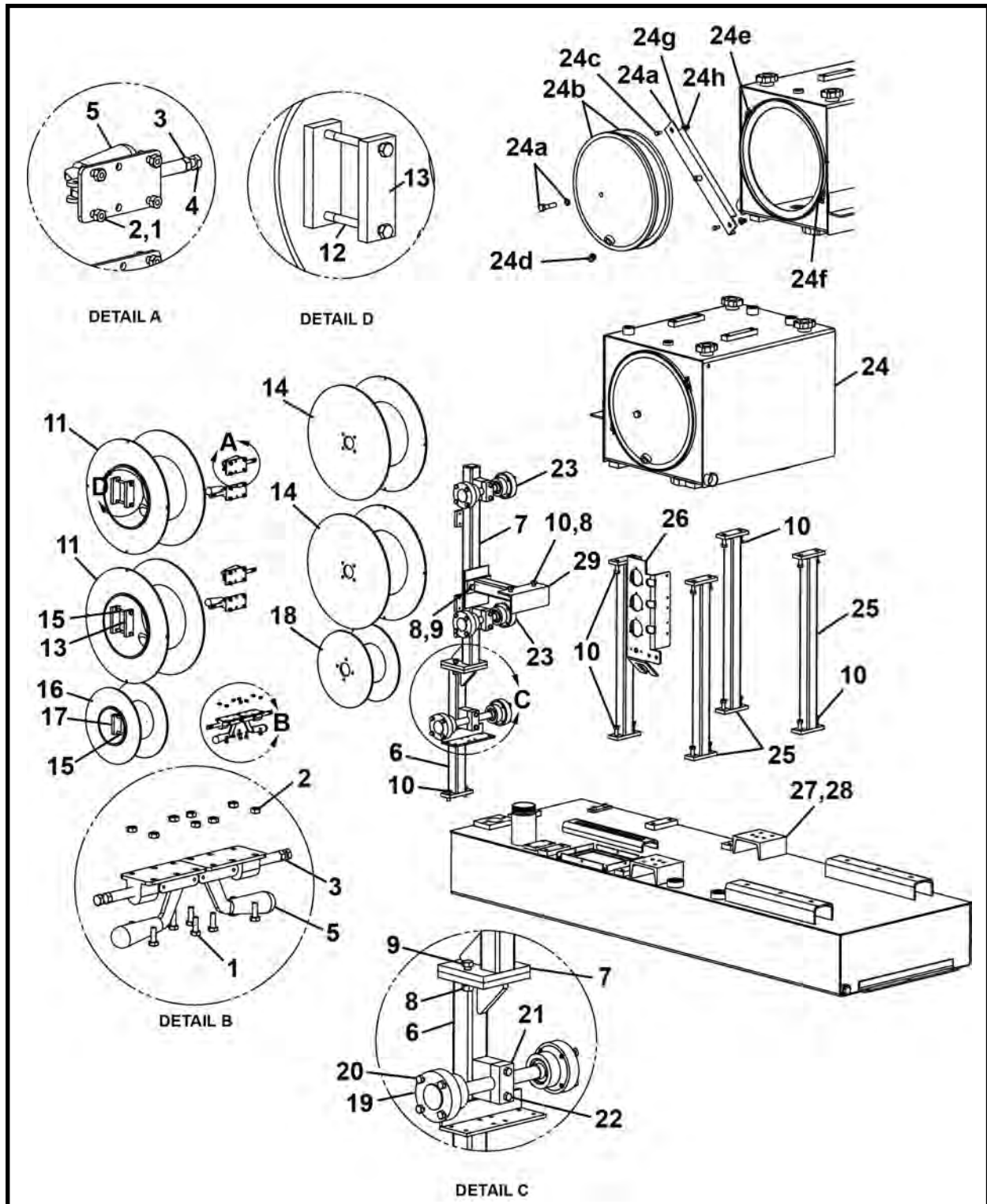
POWER UNIT ASSEMBLY (SIX HOSE REEL CONTROLS), A43587A
P100Q POWER PACK (SN FA42440F-43, 45 THRU 73)



POWER UNIT ASSEMBLY (SIX HOSE REEL CONTROLS), A43587A**P100Q POWER PACK (SN FA42440F-43, 45 Thru 73)**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43587A	ASSEMBLY, Power Unit
1	1	A42575A	ASSEMBLY, Fuel Reservoir
2	8	P0003-08-000	NUT, 1/2
3	18	P0045-008	WASHER, Lock
4	14	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25
5	4	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
6	2	A43566A	ASSEMBLY, Hub-Short
7	24	P0001-06-003	BOLT, Hex 3/8 UNC x .75
8	3	A43560P	MOUNT, Shaft-Front
9	6	P0001-06-007	BOLT, Hex 3/8 UNC x 1.75
10	1	A43557A	ASSEMBLY, Hub-Short
11	2	A42610A	REEL, Right 3/4
12	8	P0001-05-014	BOLT, Hex 5/16 UNC x 3.5
13	12	P0045-005	WASHER, Lock 5/16
14	4	A42521P	FITTING, Mounting Plate Reel
15	2	A42624A	REEL, Left 3/4
16	1	A42623A	REEL, Right 3/8
17	2	A42518P	FITTING, Mounting Plate Reel
18	4	P0001-05-012	BOLT, Hex 5/16 UNC x 3
19	1	A42618A	REEL, Left 3/8
20	4	A42609P	PLATE, Engine Spacer
21	6	P0059-061	CLAMP, Toggle
22	24	P0045-004	WASHER, Lock 1/4
23	24	P0001-04-003	BOLT, Hex 1/4 UNC x .75
24	8	P0003-04-000	NUT, 1/4
25	6	P0003-05-000	NUT, 5/16
26	6	P0001-05-004	BOLT, Hex 5/16 UNC x 1
27	1	A42773P	SUPPORT, Side
28	1	A43564A	SUPPORT, Top Vertical
29	1	A43565A	SUPPORT, Bottom Vertical
30	2	A42542A	WELDMENT, Tank Leg
31	1	A42544A	TANK, Hydraulic (Includes items 31a - 31h)
31a	1	P0308-104	BRACKET, End Cover
31b	1	P0308-105	KIT, End Cover (Includes item 31b1)
31b1	1	P0308-105A	Gasket
31c	2	P0001-06-003	BOLT, Hex 3/8 UNC x .75
31d	1	P0416-004	PLUG, Square Head 3/4
31e	1	P0201-218	CLAMP, Tube
31f	1	P0201-224	CLAMP, Hose
31g	2	P0040-006	WASHER, Hardened Flat 3/8
31h	2	P0003-06-000	NUT, 3/8
32	1	A42775A	STAND, Tank
33	1	P0300-060	PLUG, 10MB

POWER UNIT BASE P100Q/P150Q, A45858A
P100Q POWER PACK (SN FA42440F-74 & AFTER)

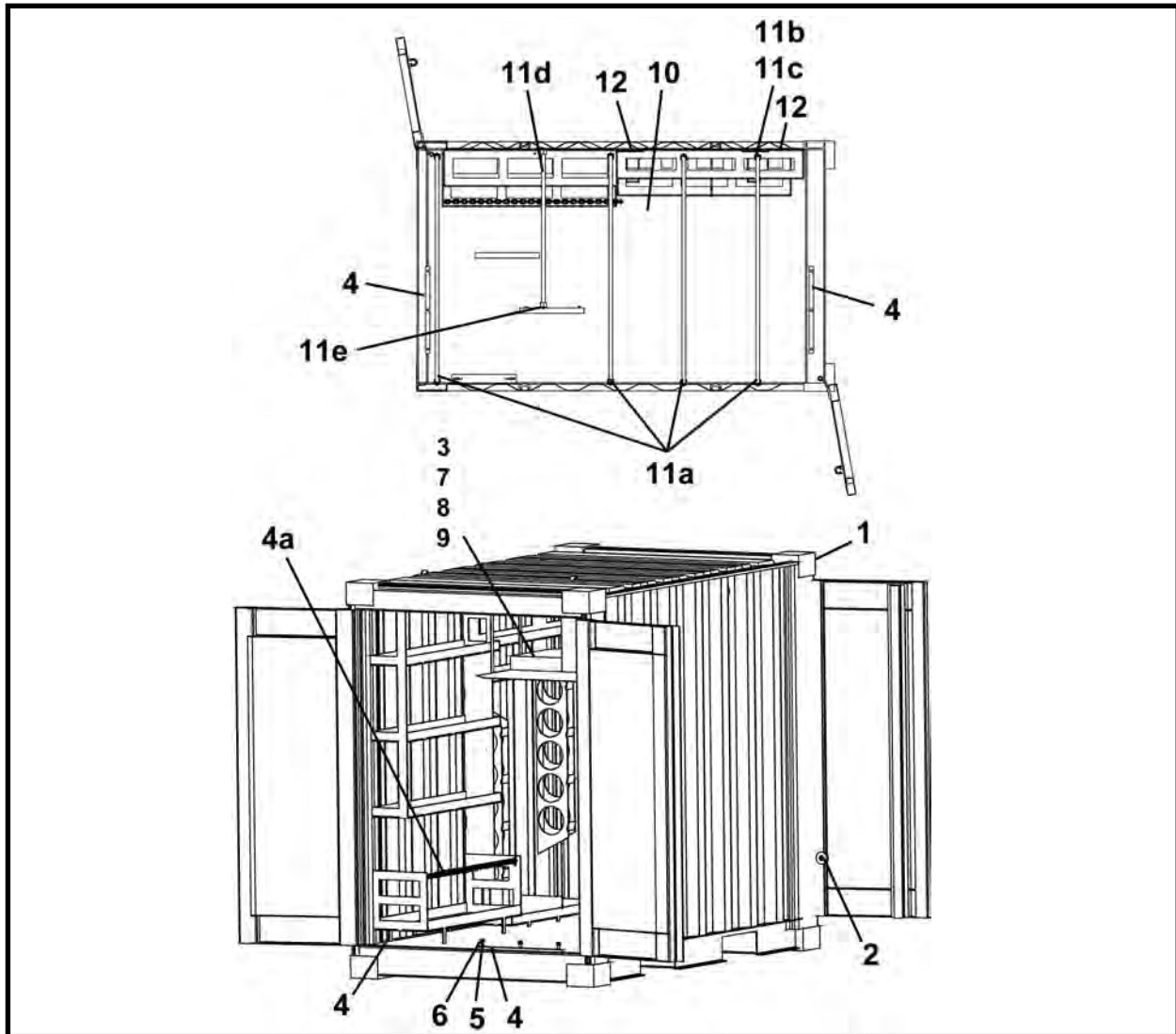


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45858A	POWER UNIT BASE P100Q/P150Q
1	24	P0001-04-003	BOLT, Hex 1/4 UNC x .75
2	24	P0003-04-000	NUT, 1/4
3	6	P0003-05-000	NUT, 5/16
4	6	P0001-05-005	BOLT, 5/16 UNC x 1.25
5	6	P0059-061	CLAMP, Toggle

POWER UNIT BASE P100Q/P150Q, A45858A
P100Q POWER PACK (SN FA42440F-74 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
6	1	A43565A	SUPPORT, Vertical - Bottom
7	1	A43564A	SUPPORT, Vertical - Top
8	6	P0003-08-000	NUT, 1/2
9	4	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
10	20	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25
11	2	A42610A	REEL, Right 3/4
12	2	P0001-05-014	BOLT, Hex 5/16 UNC x 3.5
13	4	A42521P	FITTING, Mounting Plate Reel
14	2	A42624A	REEL, Left 3/4
15	10	P0001-05-012	BOLT, Hex 5/16 UNC x 3
16	1	A42623A	REEL, Right 3/8
17	2	A42518P	FITTING, Mounting Plate Reel
18	1	A42618A	REEL, Left 3/8
19	1	A43557A	ASSEMBLY, Hub-Short
20	24	P0001-06-003	BOLT, Hex 3/8 UNC x .75
21	3	A43560P	MOUNT, Shaft-Front
22	6	P0001-06-007	BOLT, Hex 3/8 UNC x 1.75
23	2	A43566A	ASSEMBLY, Hub-Short
24	1	A44903A	TANK, Hydraulic (Includes items 24a - 24h)
24a	1	P0308-104	BRACKET, End Cover
24b	1	P0308-105	KIT, End Cover (Includes item 24b1)
24b1	1	P0308-105A	Gasket
24c	2	P0001-06-003	BOLT, Hex 3/8 UNC x .75
24d	1	P0416-003	PLUG, Square Head 1/2
24e	1	P0201-218	CLAMP, Tube
24f	1	P0201-224	CLAMP, Hose
24g	2	P0040-006	WASHER, Hardened Flat 3/8
24h	2	P0003-06-000	NUT, 3/8
25	3	A42542A	WELDMENT, Tank Leg
26	1	A44998A	MOUNT, Gauge
27	1	P0300-060	PLUG, 10MB
28	1	A44980A	ASSEMBLY, Fuel Reservoir
29	1	A44959A	SUPPORT, Hose Reel

CONTAINER GROUP ASSEMBLY, A42786A
P100Q POWER PACK (SN FA42440F-73 & Before)



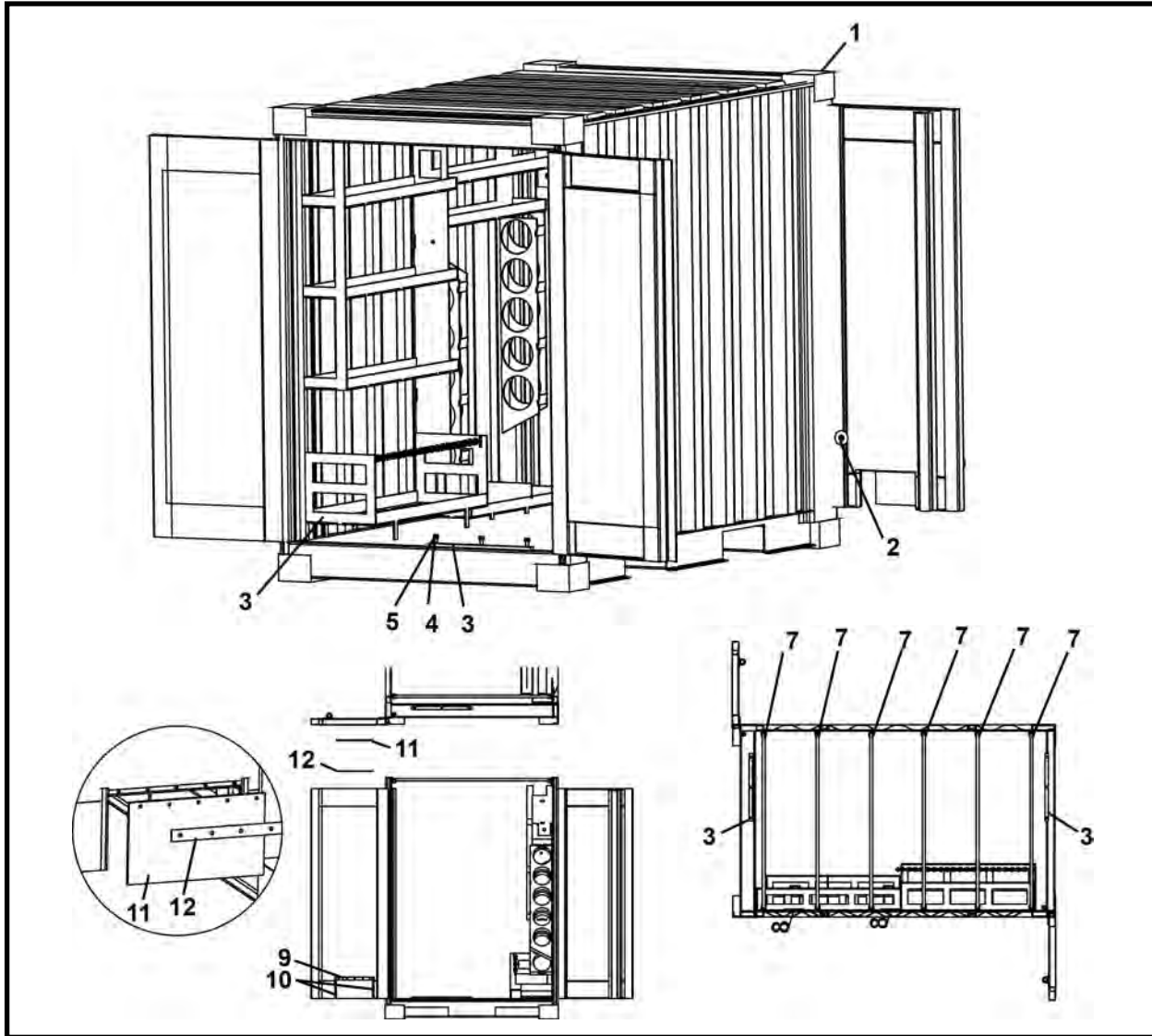
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42786A	ASSEMBLY, Container Group
1	1	P0125-120	CONTAINER (Includes item 1a)
1a*	1	P0125-120A	KIT, Seal
2	4	P0253-112	BUMPER, Rubber
3	1	A42766A	SHELF, Container
4	1	A42750A	SHELVING, Container (Includes item 4a)
4a	48 LI	P0094-009	CHAIN
5	6	P0045-008	WASHER, Lock 1/2
6	6	P0001-08-004	BOLT, 1/2 UNC x 1
7	6	P0001-04-002	BOLT, 1/4 UNC x .5
8	6	P0045-004	WASHER, Lock 1/4
9	6	P0003-04-000	NUT, 1/4
10	74 SFT	P0111-018-074	FOAM
11	1	A43395A	ASSEMBLY, Foam Support (Includes items 11a - 11e)
11a	4	A43389P	SUPPORT, Long Foam
11b	10	P0001-04-002	BOLT, 1/4 UNC x .5
11c	10	A43393A	MOUNT
11d	1	A43390P	SUPPORT, Short Foam
11e	1	P0003-04-000	NUT, 1/4
12	2	A44999P	PLATE, Makeup

* Not Shown

LI - Linear Inch SFT - Square Feet

CONTAINER GROUP ASSEMBLY, A42786A

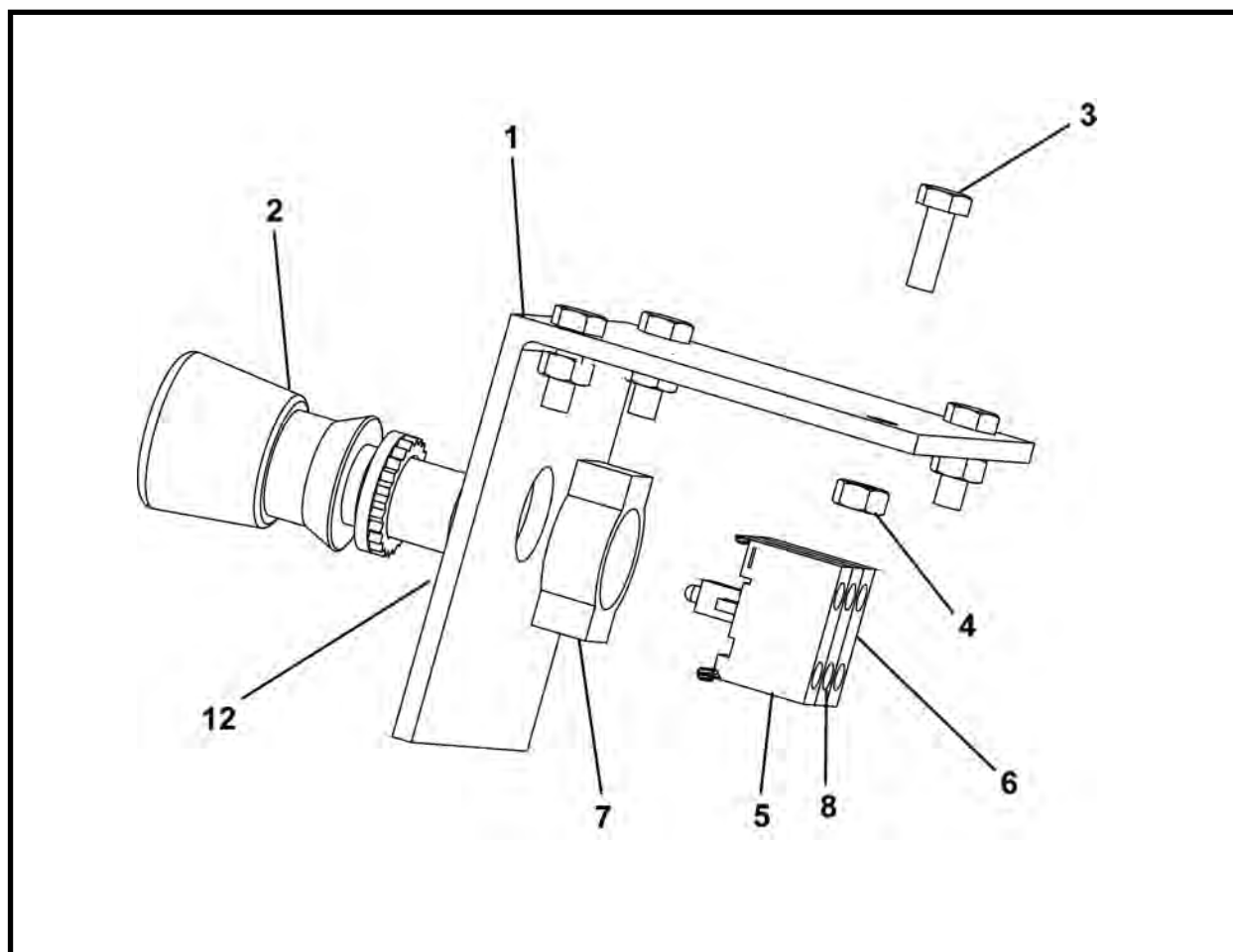
P100Q POWER PACK (SN FA42440F-74 & After)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42786A	ASSEMBLY, Container Group
1	1	P0125-120	CONTAINER (Includes item 1a)
1a*	1	P0125-120A	KIT, Seal
2	4	P0253-112	BUMPER, Rubber
3	1	A44887A	SHELF, Container
4	6	P0045-008	WASHER, Lock 1/2
5	6	P0001-08-004	BOLT, 1/2 UNC x 1
6	74 SFT	P0111-018-074	FOAM
7	1	A47095A	ASSEMBLY, Foam Support (Includes items 7a-7d)
7a	6	A43389P	SUPPORT, Long Foam
7b	12	P0001-04-002	BOLT, Hex 1/4 UNC x .5
7c	12	A43393A	MOUNT, Pipe
7d	2	A42745P	MOUNT, Foam
8	2	A44999P	PLATE, Makeup
9	1	A40719P	MOUNT, Door Flap
10	2	A40728P	TUBE
11	1	A40749P	RUBBER, Door Flap
12	1	A44722P	BAR, Door Flap Mount

* Not Shown SFT - Square Foot

E-STOP ASSEMBLY, A43765A
P100Q POWER PACK (SN FA42440F-75 & Before)



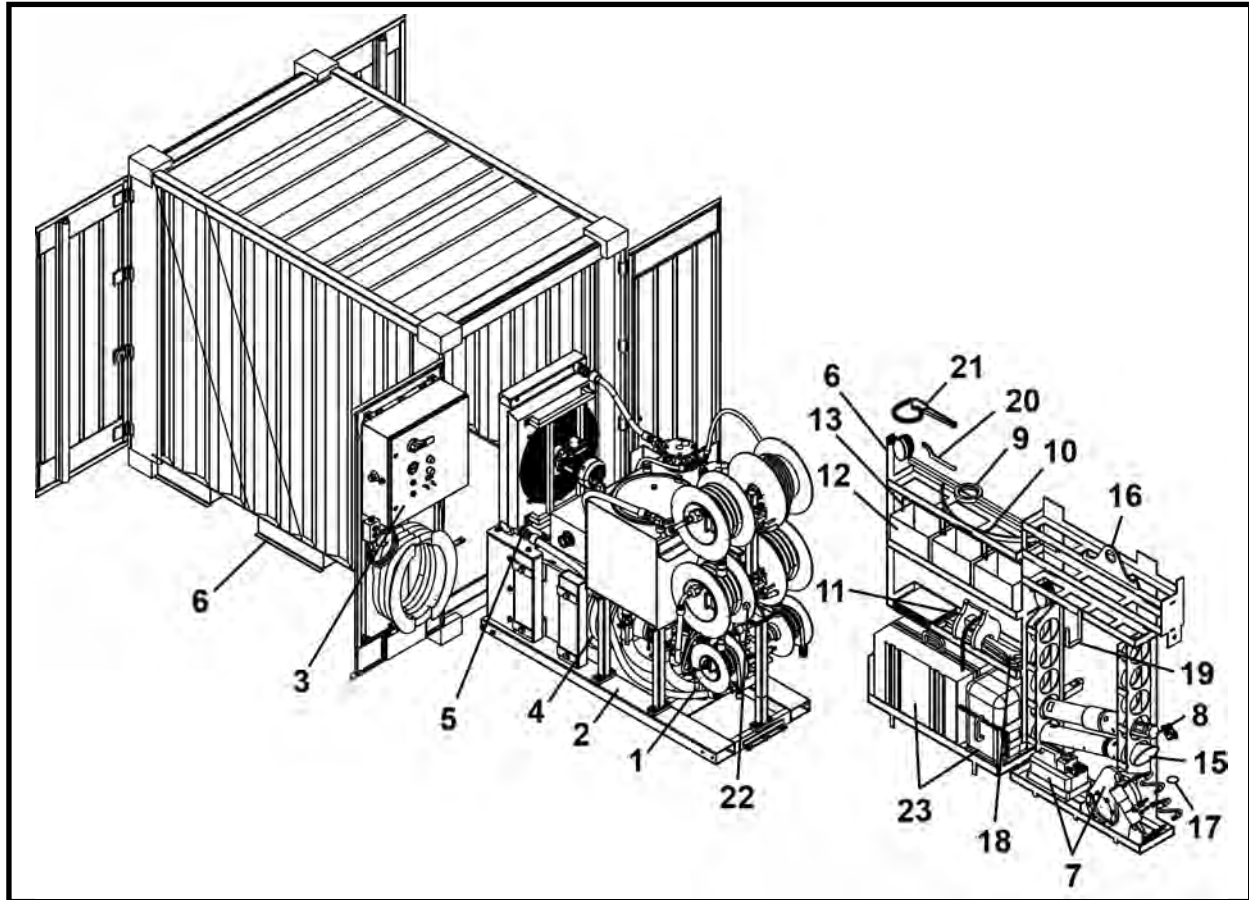
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43765A	ASSEMBLY, E-Stop
1	1	A43706P	PLATE
2	1	P0310-420F	PUSHBUTTON, Illuminated E-Stop
3	4	P0001-04-003	BOLT, Hex 1/4 UNC x .75
4	4	P0001-04-001	BOLT, Hex 1/4 UNC x .38
5	1	P0056-121F	CONTACT
6	1	P0045-122F	BLOCK, Contact
7	1	P0310-419F	MOUNTING LATCH
8	1	P0251-171	MODULE, LED
9*	180 LI	P0054-013	WIRE, 14 GA White & Black
10*	90 LI	P0054-014	WIRE, 12 GA White & Black
11*	80 LI	P0054-498	WRAP, Spiral Wire 3/8
12	1	P0310-474F	DECAL, E-Stop

LI - Linear Inch

* Not Shown

NOTES

P100E POWER PACK ASSEMBLY, FA40039F
P100E POWER PACK



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40039F	P100E POWER PACK ASSEMBLY
1**	1	A46899A	SUPPORT ASSEMBLY, Short Pump
2**	1	A48110A	SKID ASSEMBLY
3***	1	A48130A	ASSEMBLY, Electrical
4**	1	A48131A	ASSEMBLY, Motor Pump
5*	1	A48132A	ASSEMBLY, Hydraulics
6**	1	A48140A	ASSEMBLY, Container
7^	1	+FA40230F	DUAL TUBE BREAKOUT TOOL
8^	1	FA41403F	ADAPTER, Pilot Tube
9^	1	FA40482F	SCRAPER, Pilot Tube
10^	2	A40118P	BAR, Pilot Tube Support
11^	1	FA42240F	ASSEMBLY, Break-Out Tool Launch
12	3	A42686P	BASKET
13	3	A42687P	HANDLE, BASKET
15^	1	FA40245F	STEERING HEAD
16	1	A40540P	HOLDER, Pilot Tube Lifting Bar
17	25	P0085-228	ORING
18	1	FA40244F	GBM Wrench Set (Includes items 11a - 11c)
11a	1	A40583P	WRENCH, 3-5/8 Opening x 12
11b	1	A40584P	WRENCH, 3-5/8 Opening x 24
11c	1	A40515P	WRENCH, Shaft Tensioner 3-1/8 Opening
19	1	A47097P	BRACKET, Hose
20	1	F0095-103	WRENCH, Spanner 4"
21	1	F0095-105	WRENCH, Chain 5"
22	7	003060A00	TIE DOWN 20" (For Hose Reels)
23**	REF	FA47260F	ASSEMBLY, Guidance System G4

* Refer to section 6, Hydraulics for parts information.

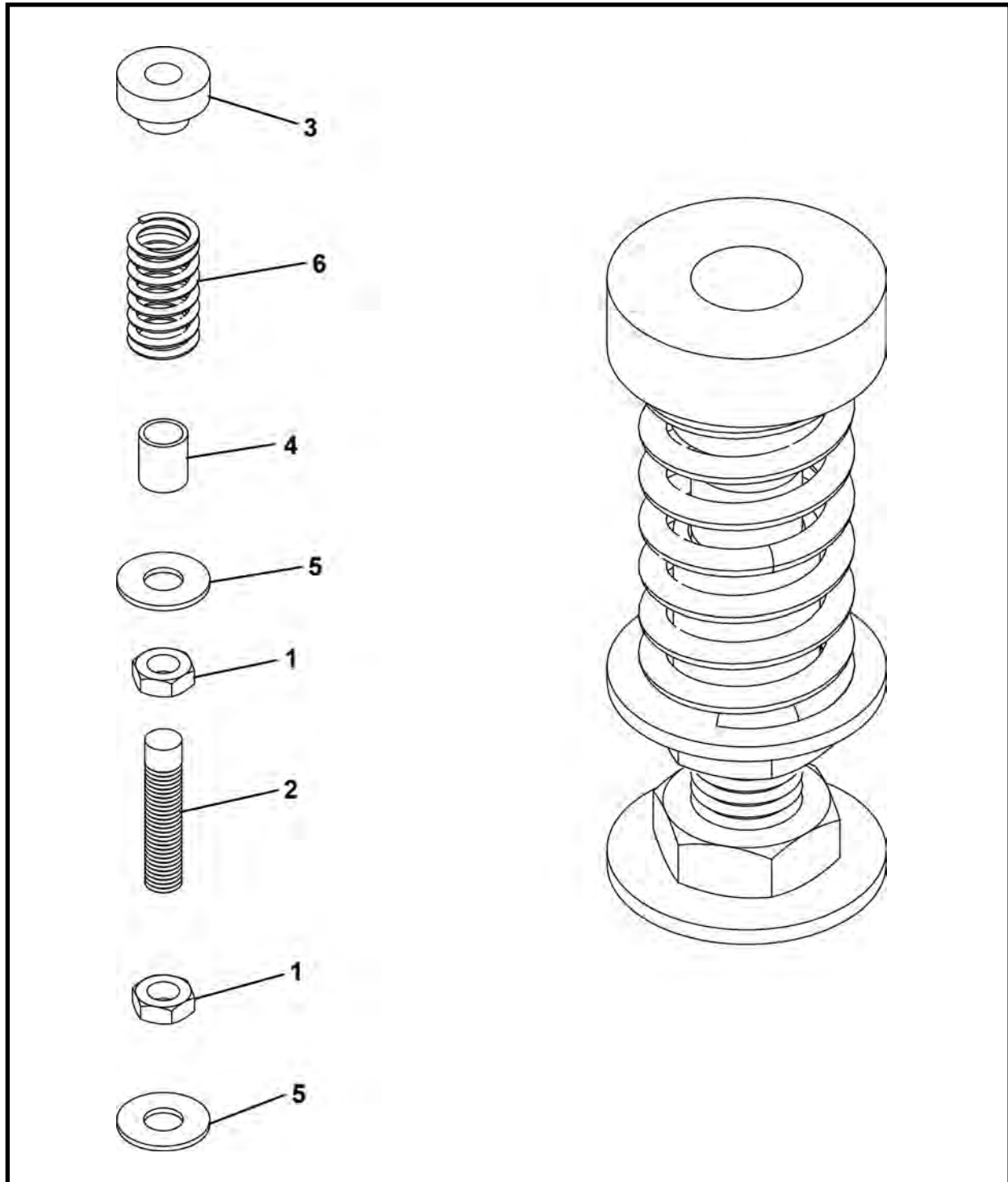
** Refer to this section for parts information.

*** For parts information, refer to section 5, Electrical.

^ Refer to section 11, Miscellaneous/Tooling for parts information.

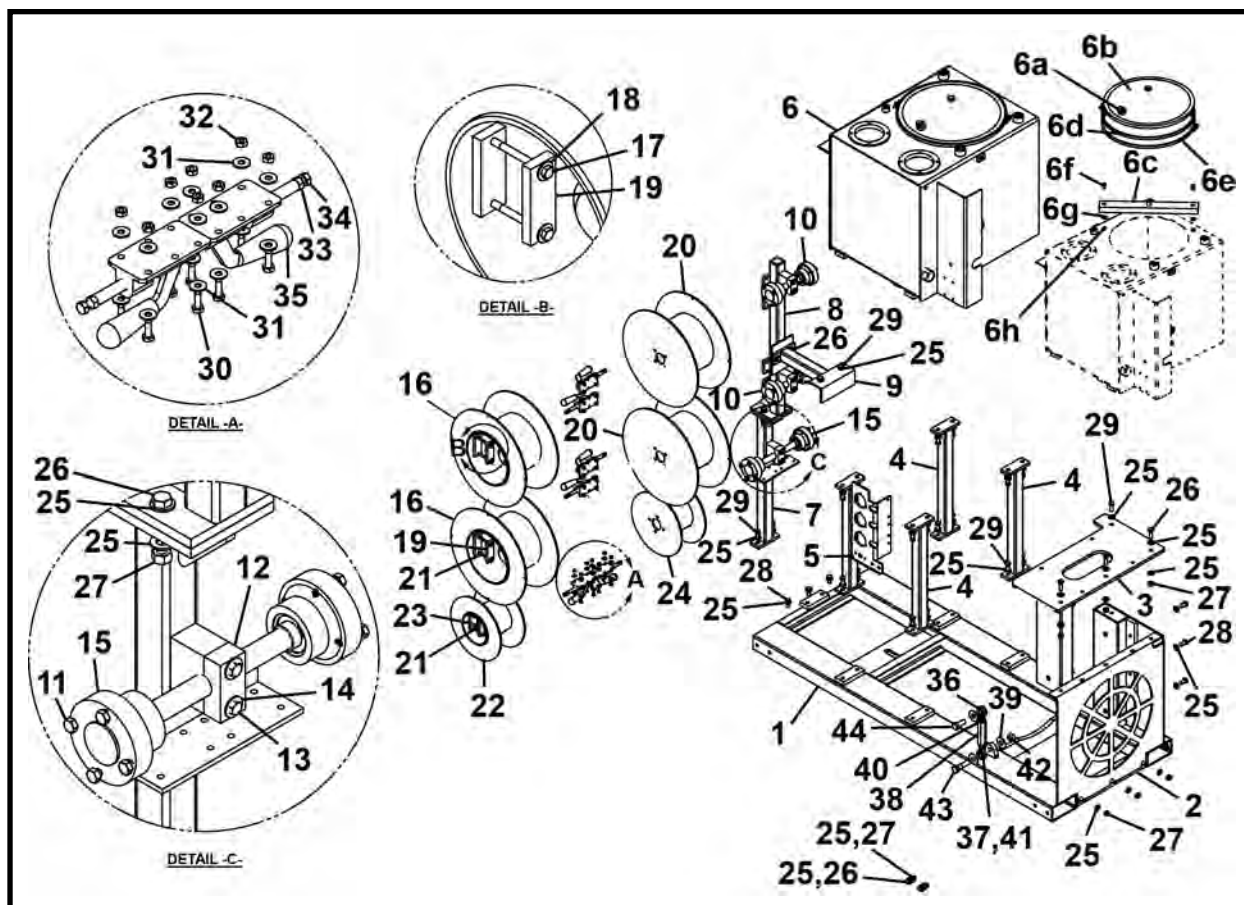
+ Optional 230 Volt Breakout Tool (FA40221F) is available.

SHORT PUMP SUPPORT ASSEMBLY, A46899A
P100E POWER PACK



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A46899A	SHORT PUMP SUPPORT ASSEMBLY,
1	2	P0007-16-000	NUT, Jam 1 UNC
2	1	A46897P	SCREW, Adjustment
3	1	A42526P	CAP, Spring
4	1	A46898P	SLEEVE, SHORT SPRING
5	2	P0040-016	WASHER, Hardened Flat 1
6	1	P0070-063	SPRING

SKID ASSEMBLY, A48110A **P100E POWER PACK**



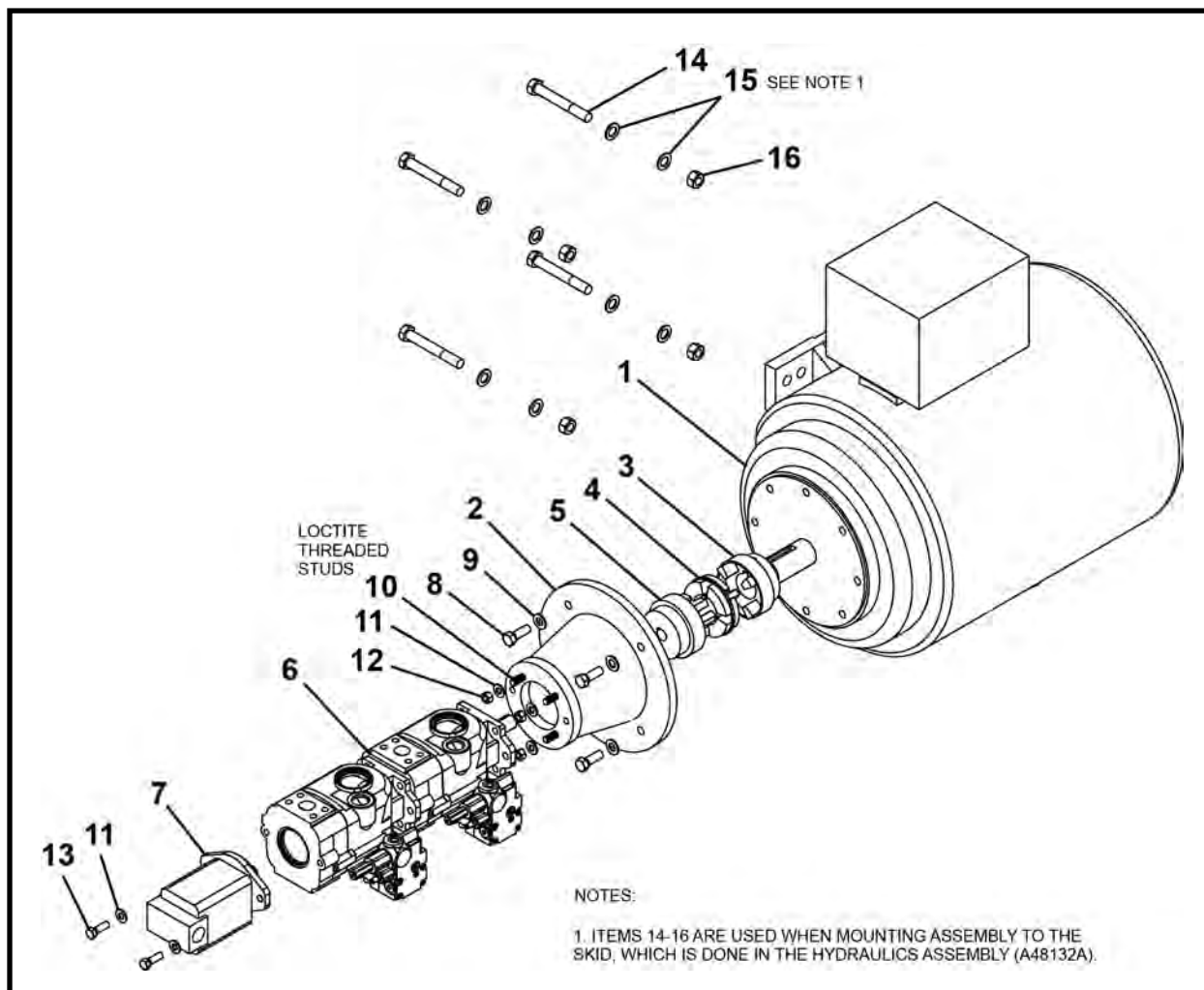
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A48110A	SKID ASSEMBLY, P100E
1	1	A48100A	SKID, Power Unit
2	1	A48103P	FORMING, Motor Guard
3	1	A48123P	MOUNT, Oil Cooler
4	3	A48112A	LEG, Tank
5	1	A48113A	LEG, Gauge Mount
6	1	A48122A	TANK, Hydraulic (Includes items 6a - 6h)
6a	1	P0416-004	PLUG, Square Head 3/4
6b*	1	P0308-105	KIT, Hydraulic End Cover Kit
6c	1	P0308-104	BRACKET, Removable End Cover
6d	1	P0201-224	CLAMP, Hose
6e	1	P0201-218	CLAMP, Tube
6f	2	P0001-06-003	BOLT, Hex 3/8 UNC x .75
6g	2	P0040-006	WASHER, Hardened Flat 3/8
6h	2	P0003-06-000	NUT, 3/8 UNC
7	1	A48115A	SUPPORT, Reel
8	1	A43564A	SUPPORT, Top Vertical
9	1	A48117A	BRACE, Reel
10	2	A43566A	ASSEMBLY, Hub - Short
11	24	P0001-06-003	BOLT, Hex 3/8 UNC x .75
12	3	A43560P	MOUNT, Shaft - Front
13	6	P0001-06-007	BOLT, Hex 3/8 UNC x 1.75
14	6	P0040-006	WASHER, Hardened Flat 3/8
15	1	A43557A	ASSEMBLY, Hub - Short
16	2	A42610A	REEL, Right, 3/4

SKID ASSEMBLY, A48110A
P100E POWER PACK

ITEM	QTY	PART NO.	DESCRIPTION
17	2	P0001-05-014	BOLT, Hex 5/16 UNC x 3.5
18	12	P0040-005	WASHER, Hardened Flat 5/16
19	4	A42521P	PLATE, Reel Fitting Mounting
20	2	A42624A	REEL, Left 3/4
21	10	P0001-05-012	BOLT, Hex 5/16 UNC x 3
22	1	A42623A	REEL, Right 3/8
23	2	A42518P	PLATE, Reel Fitting Mounting
24	1	A42618A	REEL, Left 3/8
25	40	P0040-008	WASHER, Hardened Flat 1/2
26	11	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
27	16	P0003-08-000	NUT, Hex 1/2 UNC
28	6	P0001-08-004	BOLT, Hex 1/2 UNC x 1
29	21	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25
30	24	P0001-04-003	BOLT, Hex 1/4 UNC x .75
31	32	P0040-004	WASHER, Hardened Flat 1/4
32	24	P0003-04-000	NUT, 1/4 UNC
33	6	P0003-05-000	NUT, Hex 5/16 UNC
34	6	P0001-05-005	BOLT, Hex 5/16 UNC x 1.25
35	6	P0059-061	CLAMP, Toggle
36	1	P0099-012	BALL JOINT, LH
37	1	P0099-011	BALL JOINT, RH
38	1	A11558P	NUT, Coupling 3/4 UNF
39	3	P0040-012	WASHER, Hardened Flat 3/4
40	1	P0008-12-000A	NUT, Jam
41	1	P0008-12-000	NUT, Jam 3/4 UNF
42	1	P0003-12-000	NUT, 3/4 UNC
43	1	P0001-12-011	BOLT, Hex 3/4 UNC x 2.75
44	1	P0001-12-007	BOLT, Hex 3/4 UNC x 1.75

* Not Shown

MOTOR PUMP MOUNTING ASSEMBLY, A48131A
P100E POWER PACK



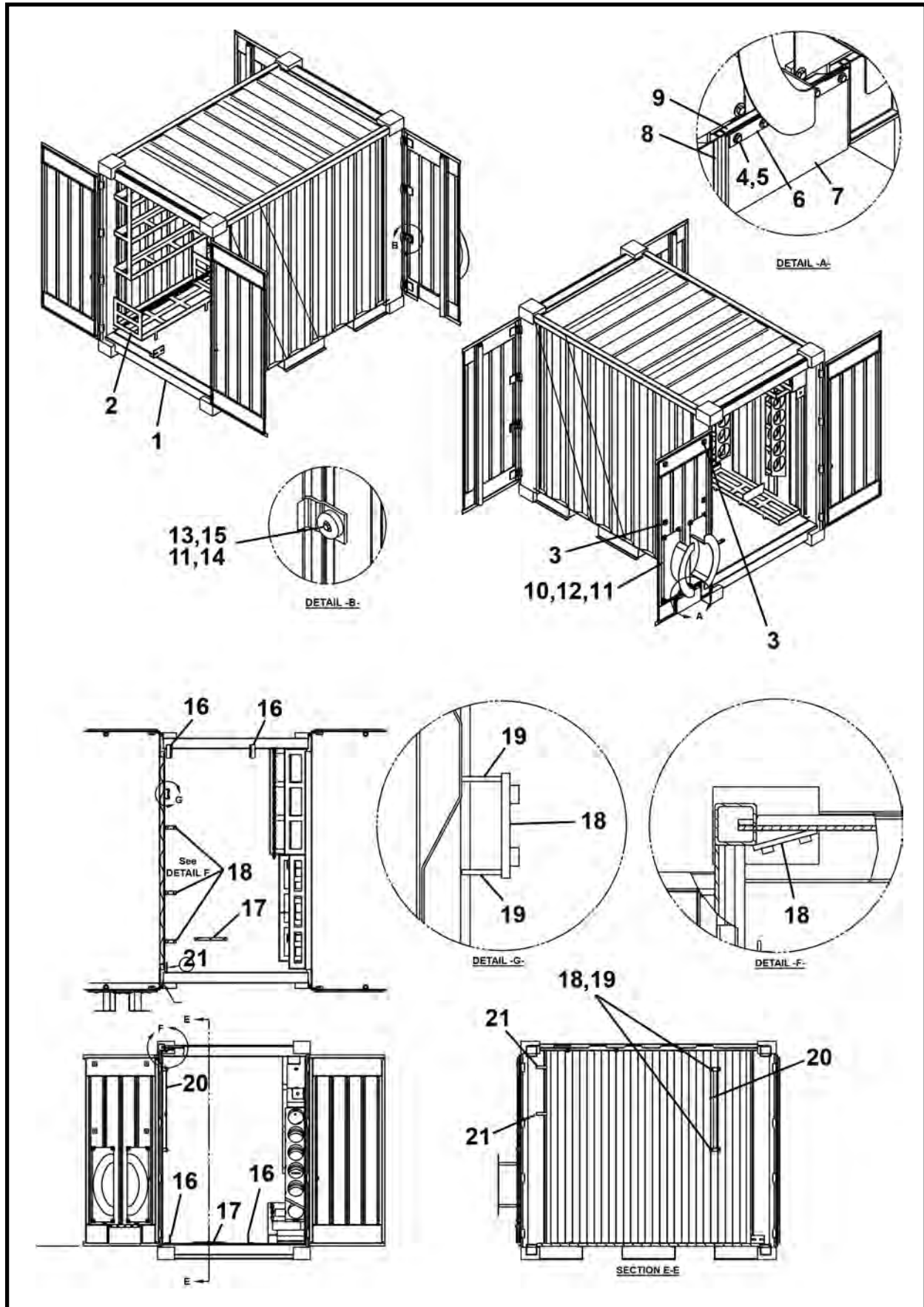
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A48131A	MOTOR PUMP MOUNTING ASSEMBLY
1*	1	P0251-404	MOTOR, 100HP
2	1	P0305-168	ADAPTER, Pump/Motor
3	1	P0305-112A	COUPLER
4	1	P0305-112D	INSERTS
5	1	P0305-176	COUPLING
6**	1	P0303-393	PUMP
7**	1	P0303-250	PUMP, Gear
8	4	P0001-10-007	BOLT, Hex 5/8 UNC x 1.75
9	4	P0040-010	WASHER, Hardened Flat 5/8
10	4	P0025-002A	STUD, 1/2 x 1.5
11	6	P0040-008	WASHER, Hardened Flat 1/2
12	4	P0003-08-000	NUT, 1/2 UNC
13	2	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
14	4	P0001-12-022	BOLT, Hex 3/4 UNC x 5.5
15	8	P0040-012	WASHER, Hardened Flat 3/4
16	4	P0003-12-000	NUT, 3/4 UNC

* Refer to section 8, Motors for parts information.

** Refer to section 9, Pumps for parts information.

NOTES

CONTAINER ASSEMBLY, A48140A P100E POWER PACK



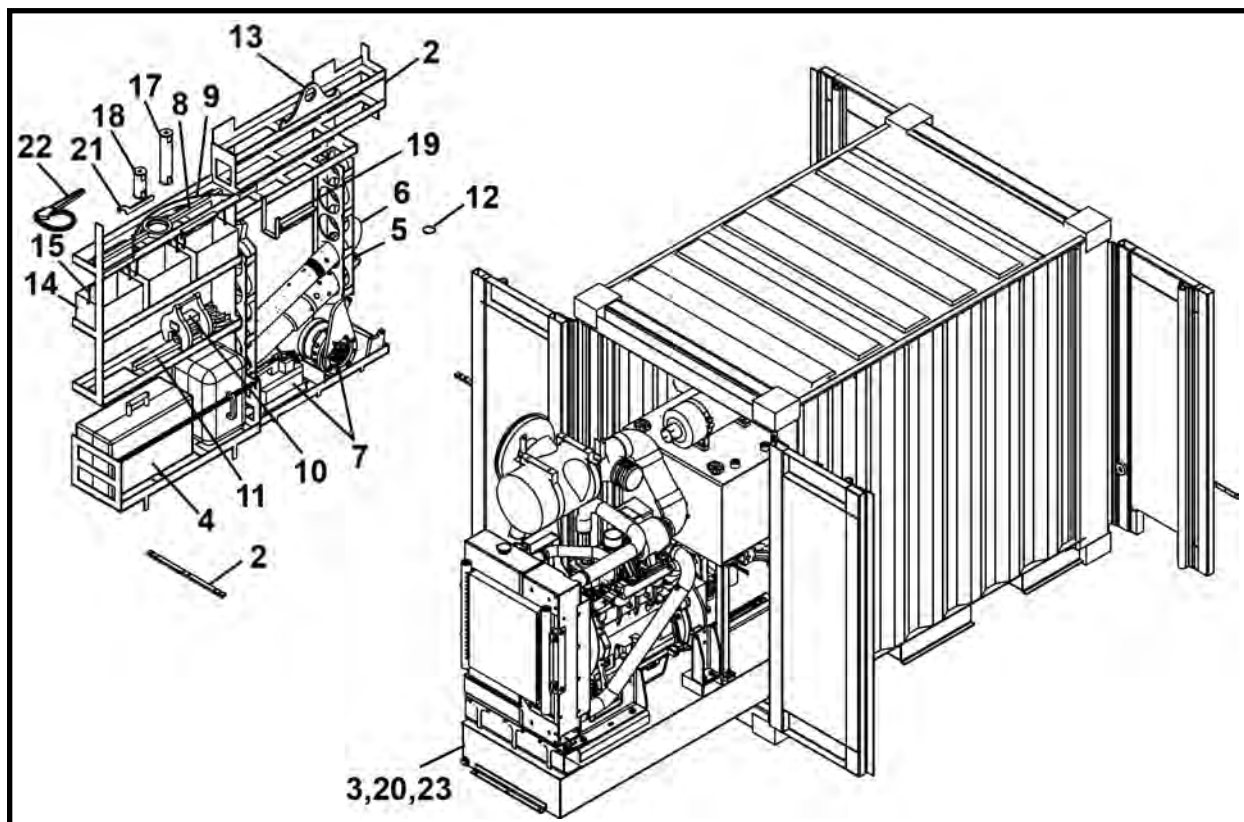
CONTAINER ASSEMBLY, A48140A**P100E POWER PACK**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A48140A	CONTAINER ASSEMBLY
1	1	P0125-120	CONTAINER (Includes item 1a)
1a	1	P0125-120A	KIT, Seal
2	1	A44887A	SHELVING
3	12	A48141P	TAB
4	5	P0040-004	WASHER, Hardened Flat 1/4
5	5	P0035-008	SCREW, Slef Tap 1/4 x 1
6	1	A44722P	BAR, Door Flap Mount
7	1	A40749P	RUBBER, Door Flap
8	2	A40728P	TUBE
9	1	A40719P	MOUNT, Door Flap
10	2	A48142A	MOUNT, Cord
11	16	P0040-006	WASHER, Hardened Flat 3/8
12	8	P0001-06-002	BOLT, Hex 3/8 UNC x .5
13	4	P0253-112	BUMPER, Rubber
14	4	P0013-06A-000	NUT, Nylok 3/8 UNC
15	4	P0001-06-007	BOLT, Hex 3/8 UNC x 1.75
16	2	A48119P	BRACKET, Skid Mount
17	1	A48137P	BAR, Skid Mount
18	5	P0059-053C	PLATE
19	4	A48146P	BAR
20	1	A48147P	BAR
21	2	031052P	BAR

NOTES

P150Q POWER PACK ASSEMBLY, FA40035F

P150Q POWER PACK



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40035F	P150Q POWER PACK ASSEMBLY
1.1*	1	A44988A	ASSEMBLY, P150Q Hydraulic (SN FA40035F-07 & Before)
1.2*	1	A40766A	ASSEMBLY, P150Q Hydraulic (SN FA40035F-08 & After)
2**	1	A44987A	ASSEMBLY, Container Group
3**	1	A44986A	ASSEMBLY, P150Q Power Unit
4.1**	REF	FA42035F	ASSEMBLY, Guidance System G3
4.2**	REF	FA47260F	ASSEMBLY, Guidance System G4
5^	1	FA41403F	ADAPTER, Pilot Tube
6^	1	FA40245F	STEERING HEAD
7^	1	+FA40230F	DUAL TUBE BREAKOUT TOOL
8^	1	FA40482F	SCRAPER, Pilot Tube
9^	2	A40118P	PILOT TUBE SUPPORT BAR
10^	1	FA42240F	ASSEMBLY, Break-Out Tool Launch
11	1	FA40244F	GBM Wrench Set (Includes items 11a - 11c)
11a	1	A40583P	WRENCH, 3-5/8 Opening x 12
11b	1	A40584P	WRENCH, 3-5/8 Opening x 24
11c	1	A40515P	WRENCH, Shaft Tensioner 3-1/8 Opening
12	25	P0085-228	ORING
13	1	A40540P	HOLDER, Pilot Tube Lifting Bar
14	3	A42686P	BASKET
15	3	A42687P	HANDLE, Basket
16.1***	1	A45949A	ASSEMBLY, P150Q Electrical (SN FA40035F-5 & Before)
16.1a**	1	A43765A	ASSEMBLY, E-Stop
16.2***	1	A47021A	ASSEMBLY, P100/P150 Electrical (SN FA40035F-6 & After)
17	1	A42012A	EXTENSION, Column 12"
18	1	A42013A	EXTENSION, Column 6"
19	1	A47097P	BRACKET, Hose
20	30 Gal	P0126-052	FUEL, Diesel
21	1	F0095-103	WRENCH, Spanner 4"
22	1	F0095-105	WRENCH, Chain 5"
23	1	A47735A	ASSEMBLY, Power Receptacle

* Refer to section 6, Hydraulics for parts information.

** Refer to this section for parts information.

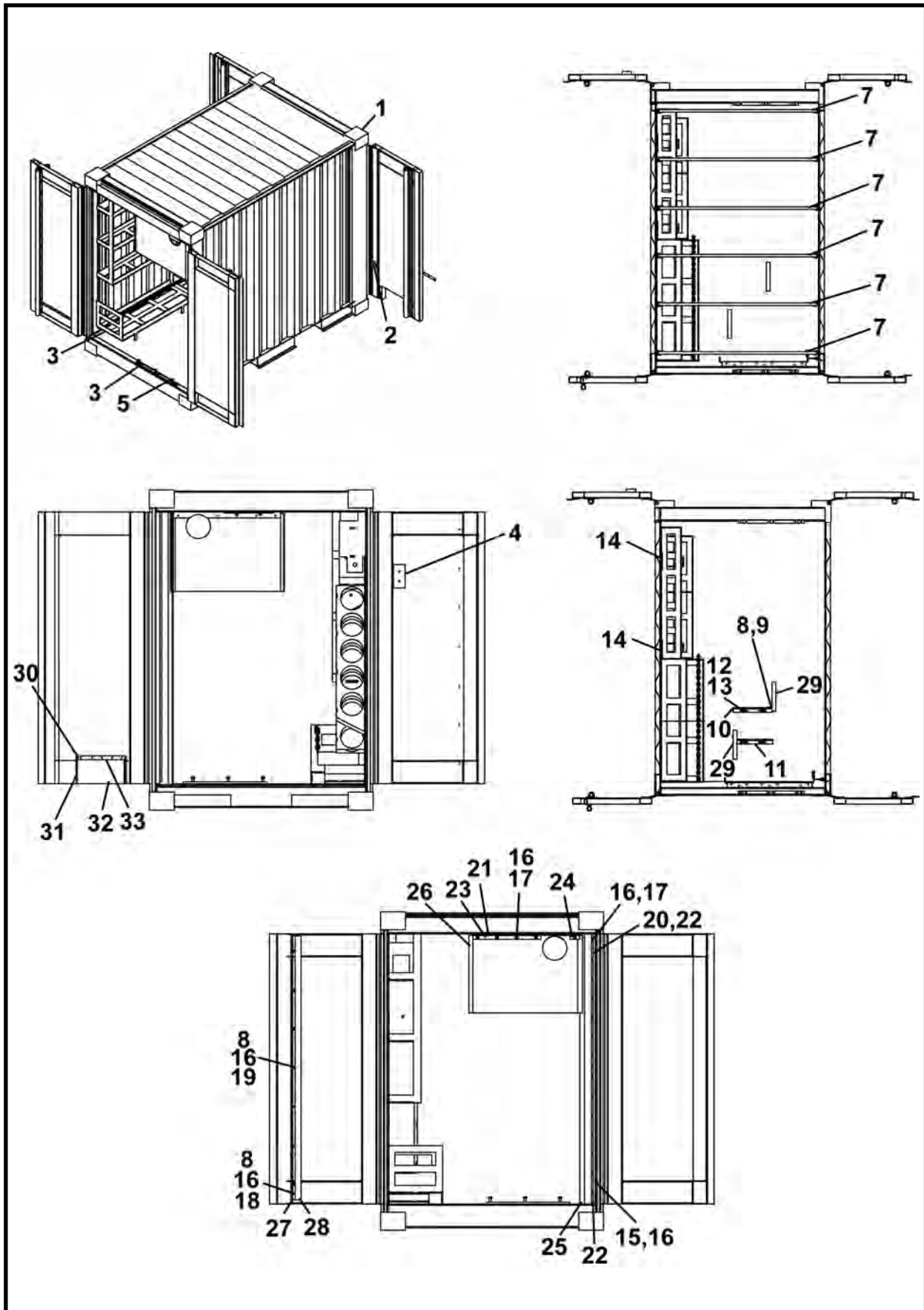
*** For parts information, refer to section 5, Electrical.

^ Refer to section 11, Miscellaneous/Tooling for parts information.

+ Optional 230 Volt Breakout Tool (FA40221F) is available.

P150Q CONTAINER GROUP ASSEMBLY, A44987A

P150Q POWER PACK



P150Q CONTAINER GROUP ASSEMBLY, A44987A**P150Q POWER PACK**

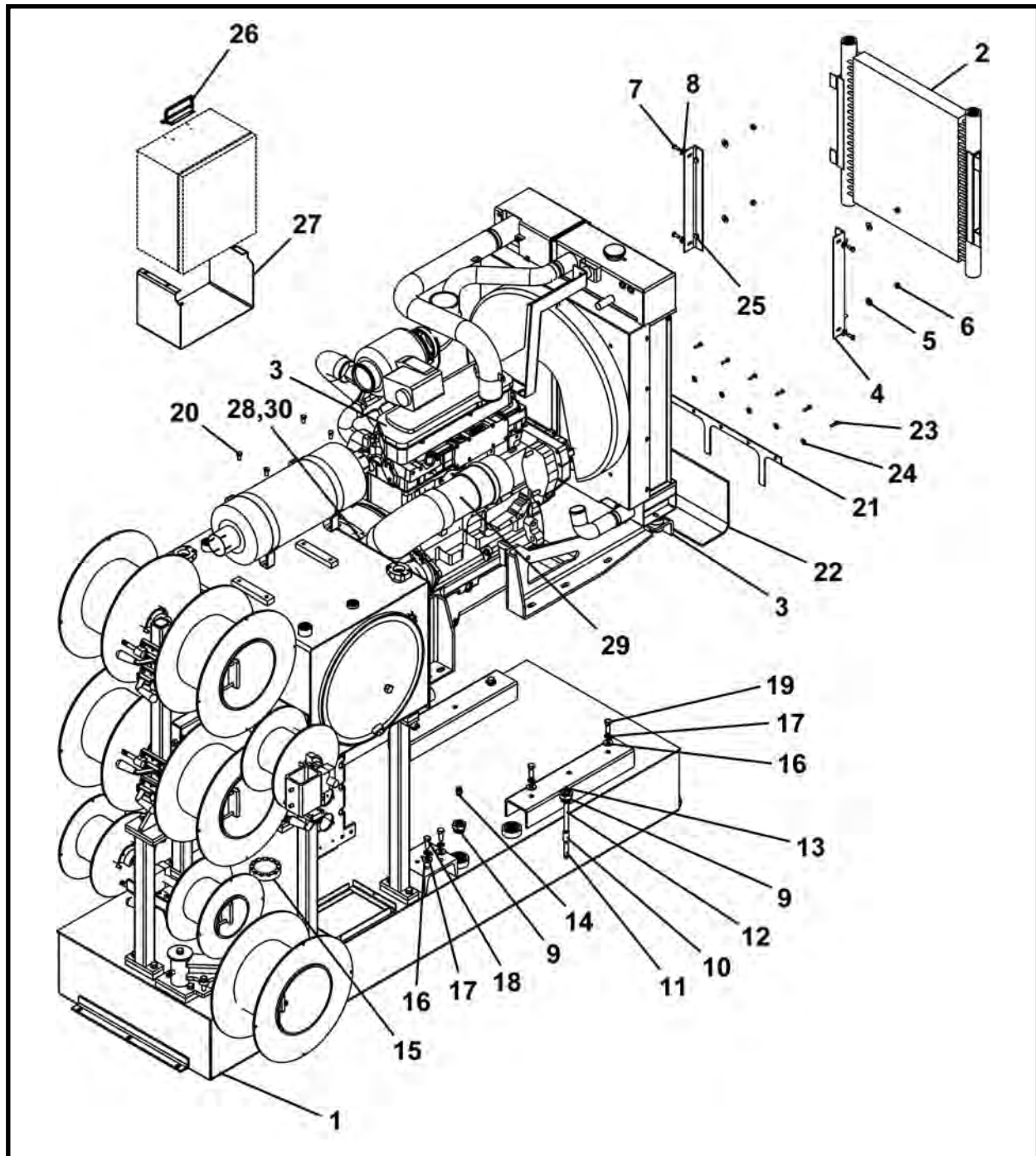
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44987A	CONTAINER GROUP ASSEMBLY
1	1	P0125-120	CONTAINER (Includes item 1a)
1a	1	P0125-120A	KIT, Seal
2	4	P0253-112	BUMPER, Rubber
3	1	A44887A	SHELVING, Container
4	1	A44965P	MOUNT, Reel Door
5	6	P0001-08-004	BOLT, Hex 1/2 UNC x 1
6*	74 SFT	P0111-018-074	FOAM
7	1	A47095A	ASSEMBLY, Foam Support (Includes items 7a - 7d)
7a	6	A43389P	SUPPORT, Foam - Long
7b	12	P0001-04-002	BOLT, Hex 1/4 UNC x .5
7c	12	A43393A	MOUNT, Pipe
7d	2	A42745P	MOUNT, Foam
8	23	P0003-04-000	NUT, 1/4
9	2	P0001-04-004	BOLT, Hex 1/4 UNC x 1
10	1	A44994A	MOUNT, Air Cleaner - Rear
11	1	A44997A	MOUNT, Air Cleaner - Front
12	4	P0001-06-003	BOLT, 3/8 UNC x .75
13	4	P0003-06-000	NUT, 3/8
14	2	A44999P	MOUNT, Shelving
15	10	P0035-012	SCREW, Drill 1/4 x 1
16	64	P0040-004	WASHER, Hardened Flat 1/4
17	19	P0001-04-003	BOLT, 1/4 UNC x .75
18	14	P0001-04-005	BOLT, 1/4 UNC x 1.25
19	7	P0020-14-207	SCREW, Truss Head 1/4 UNC x 1.5
20	1	A45149P	MOUNT, Side Seal
21	1	A45150P	MOUNT, Top Seal
22	2	A45151P	BAR, Side Seal
23	1	A45152P	BAR, Large Top Seal
24	1	A45153P	BAR, Small Top Seal
25	1	A45155P	SEAL, SIDE
26	1	A45156P	SEAL, Top
27	1	A45158P	BAR, Top Door Seal
28	1	A45160P	SEAL, Top Door
29	2	A47096P	MOUNT, Air cleaner
30	1	A40719P	MOUNT, Door Flap
31	2	A40728P	TUBE
32	1	A40749P	RUBBER, Door Flap
33	1	A44722P	BAR, Door Flap Mount

* Not Shown

SFT - Square Foot

P150Q POWER UNIT ASSEMBLY, A44986A

P150Q POWER PACK



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44986A	P150Q POWER UNIT ASSEMBLY
1*	1	A44985A	ASSEMBLY, Power Unit Base
2	1	P0125-132A	OIL COOLER
3*	1	P0125-132	ENGINE, 154 HP
4	2	A44991P	MOUNT, Oil Cooler
5	4	P0040-006	WASHER, Hardened Flat 3/8
6	4	P0003-06-000	NUT, 3/8
7	4	P0001-05-003	BOLT, 5/16 UNC x .75
8	4	P0040-005	WASHER, Hardened Flat 5/16

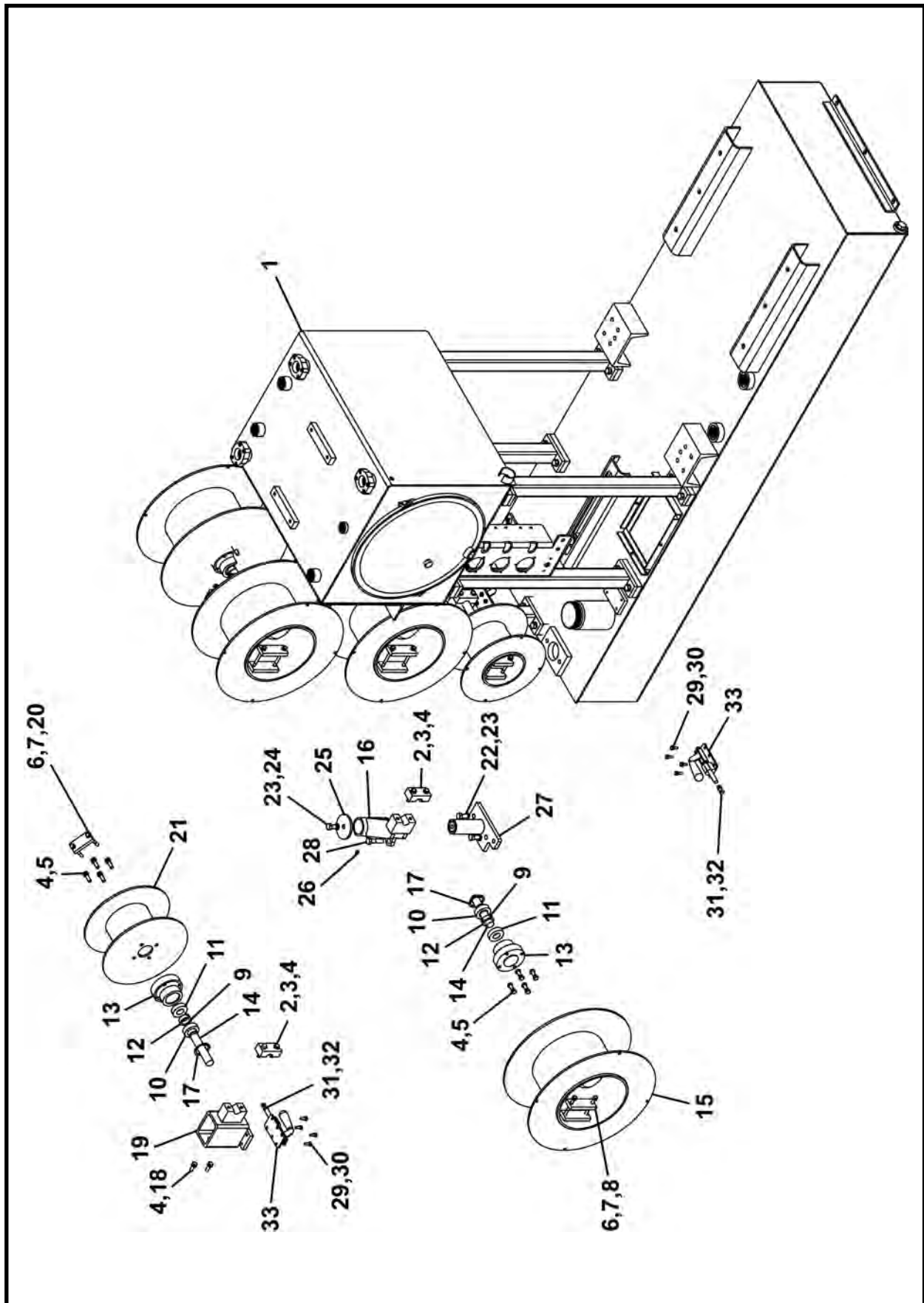
P150Q POWER UNIT ASSEMBLY, A44986A**P150Q POWER PACK**

ITEM	QTY	PART NO.	DESCRIPTION
9	2	A42563P	FITTING, Fuel Tank
10	1	P0400-001	COUPLING, Pipe 1/4
11	1	P0403-005	NIPPLE 1/4 x 3
12	1	P0403-010	NIPPLE, 1/4 x 5-1/2
13	1	P0300-245	FITTING, 04MJ-06MB
14	1	P0300-041	FITTING, 06MJ-06MB
15	1	P0125-123	CAP, Diesel Fuel
16	8	P0040-008	WASHER, Hardened Flat 1/2
17	8	P0045-008	WASHER, Lock 1/2
18	4	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25
19	4	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
20	4	P0001-06-003	BOLT, Hex 3/8 UNC x .75
21	1	A45148P	MOUNT, Lower Seal
22	1	A45154P	SEAL, Bottom
23	6	P0035-012	SCREW, Drill 1/4 x 1
24	6	P0040-004	WASHER, Hardened Flat 1/4
25	4	P0001-06-004	BOLT, Hex 3/8 UNC x 1
26	1	P0059-022	HANDLE
27	1	A44234P	STAND, Control Box
28	1	A40725A	INTAKE, Air Flow Sensor
29	1	A40727P	TUBE, Air Cleaner
30	1	P0300-823	PLUG

* Refer to this section for parts information.

P150Q POWER UNIT BASE ASSEMBLY, A44985A

P150Q POWER PACK

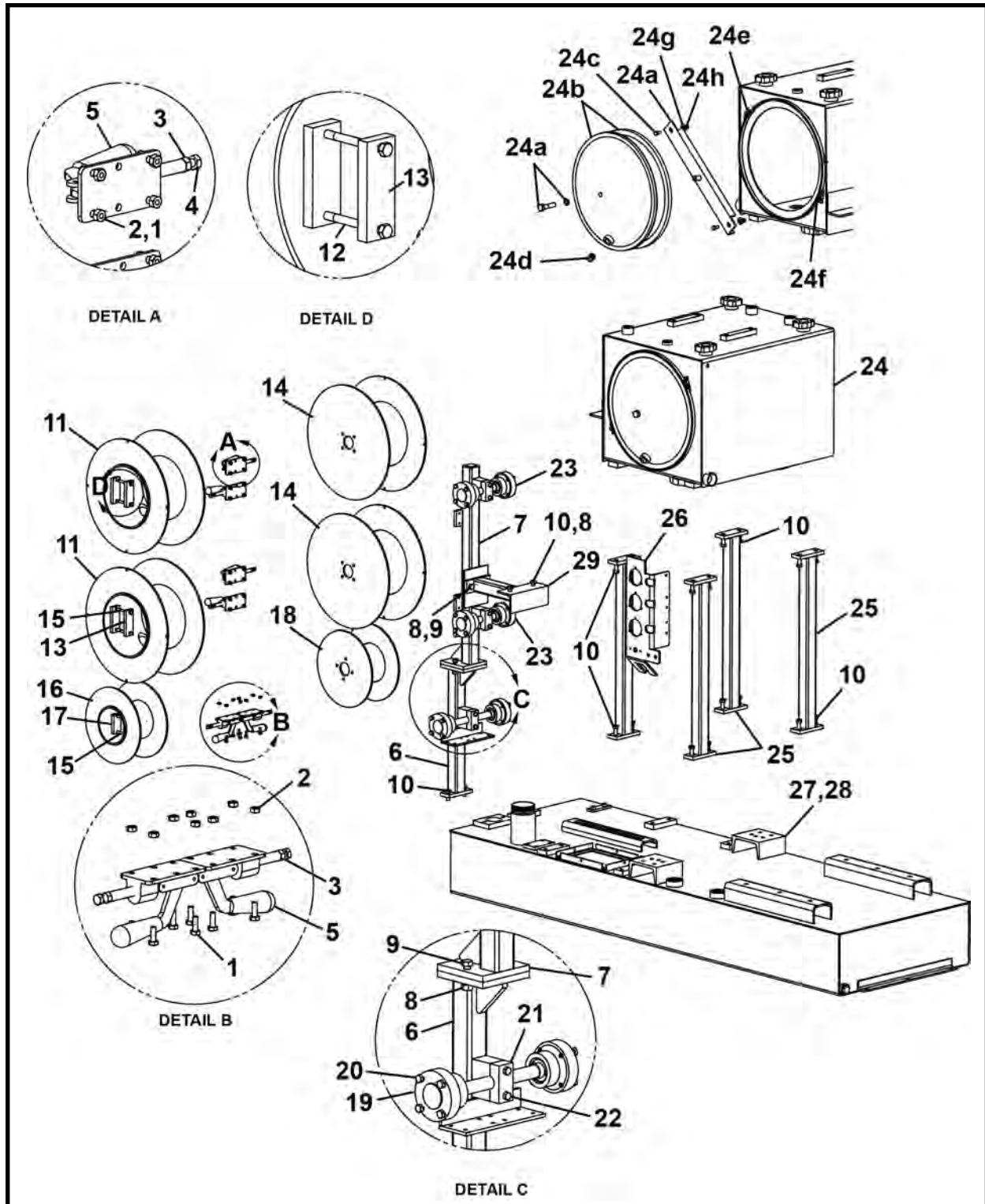


P150Q POWER UNIT BASE ASSEMBLY, A44985A**P150Q POWER PACK**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44985A	ASSEMBLY, Power Unit Base
1*	1	A45858A	POWER UNIT BASE P150Q
2	2	A43560P	MOUNT, Shaft - Front
3	4	P0001-06-007	BOLT, Hex 3/8 UNC x 1.75
4	14	P0045-006	WASHER, Lock 3/8
5	8	P0001-06-005	BOLT, Hex 3/8 UNC x 1.25
6	4	P0001-05-012	BOLT, Hex 5/16 UNC x 3
7	4	P0045-005	WASHER, Lock 5/16
8	1	A42521P	FITTING, Mounting Plate Reel
9	4	P0033-05-006	SCREW, Socket Head Cap 5/16 UNC x 3/8
10	2	P0065-214	BEARING, Insert
11	2	P0065-215	BEARING, Ball
12	2	A43555P	SPACER, Hub
13	2	A43556P	HUB, Spool
14	2	A43952P	ROD, Hose Reel
15	1	A42610A	REEL, Right 3/4
16	1	A44974A	REEL, Swing Arm
17	2	P0076-024	RING, Internal Snap
18	2	P0001-06-004	BOLT, Hex 3/8 UNC x 1
19	1	A44967A	MOUNT, Reel Door
20	1	A42518P	FITTING, Mounting Plate Reel
21	2	A42623A	REEL, Right 3/8
22	2	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25
23	3	P0045-008	WASHER, Lock 1/2
24	1	P0001-08-003	BOLT, 1/2 UNC x .75
25	1	003640P00	WASHER, Steering Link
26	1	P0063-001	FITTING, Grease Straight
27	1	A44969A	MOUNT, Swing Arm
28	1	P0001-08-008	BOLT, Hex 1/2 UNC x 2
29	8	P0045-004	WASHER, Lock 1/4
30	8	P0001-04-003	BOLT, 1/4 UNC x .75
31	2	P0003-05-000	NUT, 5/16
32	2	P0001-05-004	BOLT, Hex 5/16 UNC x 1
33	2	P0059-061	CLAMP, Toggle

* Refer to this section for parts information.

POWER UNIT BASE P100Q/P150Q, A45858A
P150Q POWER PACK

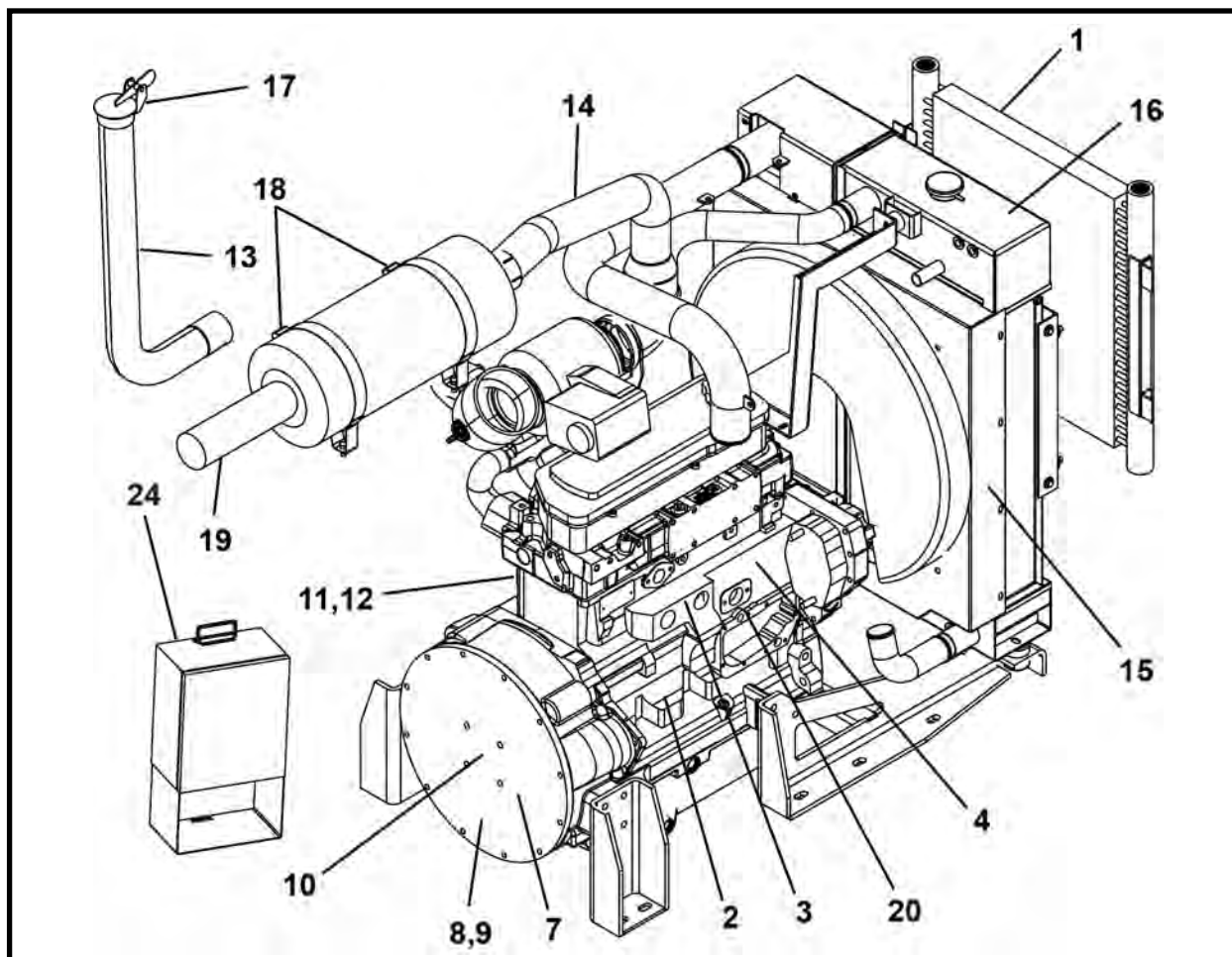


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45858A	POWER UNIT BASE P100Q/P150Q
1	24	P0001-04-003	BOLT, Hex 1/4 UNC x .75
2	24	P0003-04-000	NUT, 1/4
3	6	P0003-05-000	NUT, 5/16
4	6	P0001-05-005	BOLT, 5/16 UNC x 1.25
5	6	P0059-061	CLAMP, Toggle

POWER UNIT BASE P100Q/P150Q, A45858A**P150Q POWER PACK**

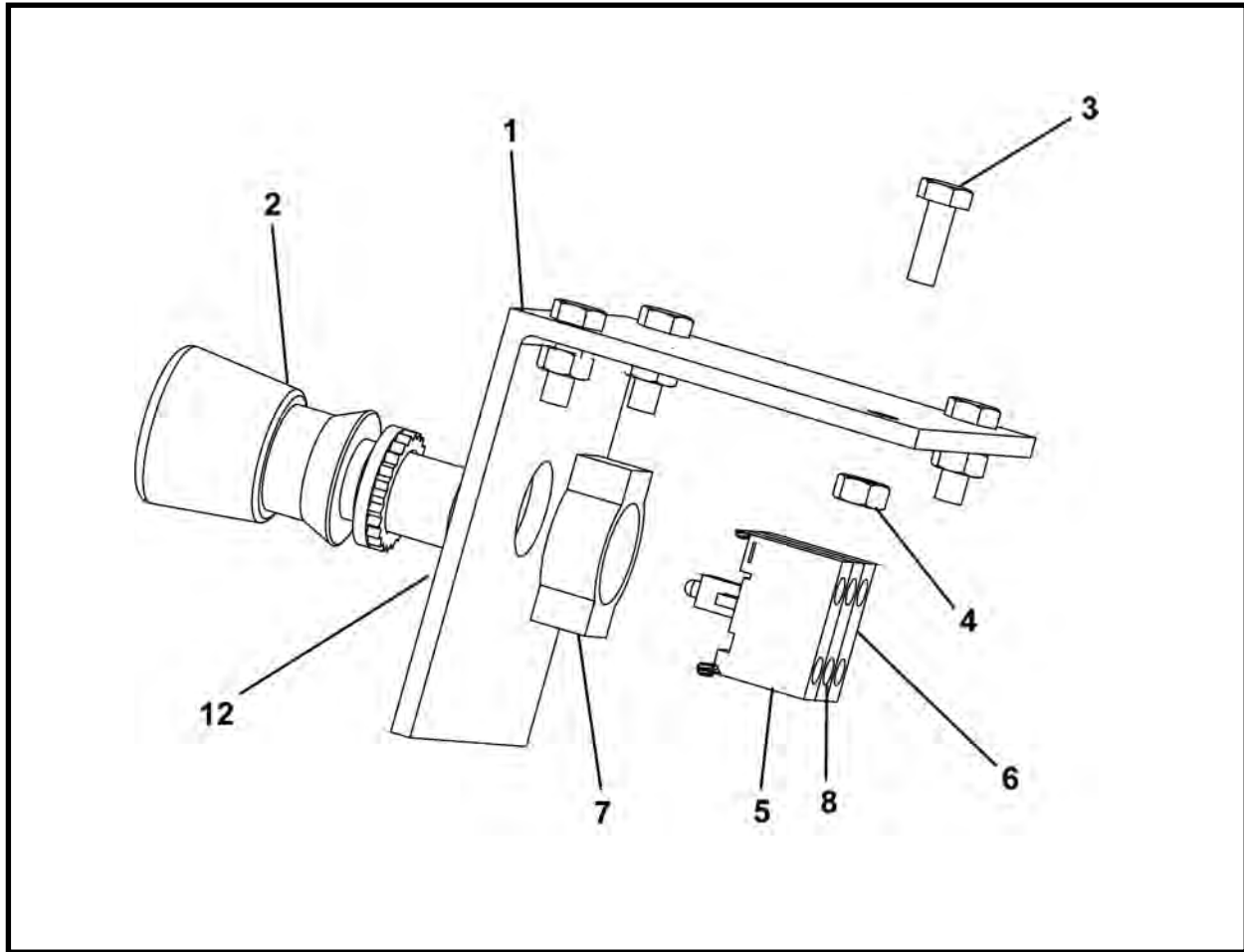
ITEM	QTY	PART NO.	DESCRIPTION
6	1	A43565A	SUPPORT, Vertical - Bottom
7	1	A43564A	SUPPORT, Vertical - Top
8	6	P0003-08-000	NUT, 1/2
9	4	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
10	20	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25
11	2	A42610A	REEL, Right 3/4
12	2	P0001-05-014	BOLT, Hex 5/16 UNC x 3.5
13	4	A42521P	FITTING, Mounting Plate Reel
14	2	A42624A	REEL, Left 3/4
15	10	P0001-05-012	BOLT, Hex 5/16 UNC x 3
16	1	A42623A	REEL, Right 3/8
17	2	A42518P	FITTING, Mounting Plate Reel
18	1	A42618A	REEL, Left 3/8
19	1	A43557A	ASSEMBLY, Hub-Short
20	24	P0001-06-003	BOLT, Hex 3/8 UNC x .75
21	3	A43560P	MOUNT, Shaft-Front
22	6	P0001-06-007	BOLT, Hex 3/8 UNC x 1.75
23	2	A43566A	ASSEMBLY, Hub-Short
24	1	A44903A	TANK, Hydraulic (Includes items 24a - 24h)
24a	1	P0308-104	BRACKET, End Cover
24b	1	P0308-105	KIT, End Cover (Includes item 24b1)
24b1	1	P0308-105A	Gasket
24c	2	P0001-06-003	BOLT, Hex 3/8 UNC x .75
24d	1	P0416-003	PLUG, Square Head 1/2
24e	1	P0201-218	CLAMP, Tube
24f	1	P0201-224	CLAMP, Hose
24g	2	P0040-006	WASHER, Hardened Flat 3/8
24h	2	P0003-06-000	NUT, 3/8
25	3	A42542A	WELDMENT, Tank Leg
26	1	A44998A	MOUNT, Gauge
27	1	P0300-060	PLUG, 10MB
28	1	A44980A	ASSEMBLY, Fuel Reservoir
29	1	A44959A	SUPPORT, Hose Reel

ENGINE, 154HP, P0125-132
P150Q POWER PACK



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0125-132	ENGINE, 154 HP
1	1	P0125-132A	OIL COOLER
2	1	P0125-119A	FILTER, Oil
3	1	P0125-124B	FILTER, Final Fuel
4	1	P0125-124A	FILTER, Main Fuel
5	1	P0125-132B	FILTER, Main Air (Not Shown)
6	1	P0125-124E	FILTER, Safety Air (Not Shown)
7	1	P0125-119F	BOLTS FOR B PAD
8	1	P0125-119G	ADAPTER, Pump, For B Pad
9	1	P0125-119H	ADAPTER, Oring, For B Pad
10	1	P0125-119I	SHAFT, Drive Coupler, For B Pad
11	1	P0125-132C	STARTER
12	1	P0125-119K	STARTER RELAY
13	1	P0125-119L	TUBE, Exhaust Exit
14	1	P0125-132D	TUBE, Turbo To Muffler
15	1	P0125-132E	KIT, Cooling Package
16	1	P0125-132F	RADIATOR
17	1	P0125-119V	RAINCAP
18	2	P0125-132G	CLAMP, Muffler Mounting
19	1	P0125-119X	TUBE, Exhaust Extension
20	1	P0125-132H	PUMP, Fuel Transfer
21	1	P0125-132I	PUMP, Fuel Injection (Not Shown)
22	1	P0125-132J	COVER, Air Cleaner (Not Shown)
23	3	P0125-132K	CLIP, Air Cleaner Cover (Not Shown)
24	1	P0125-124N	CONTROL PANEL & 50' Cord (Includes item 24a - 24d)
24a	1	P0125-124S	CORD, 50'
24b	1	P0125-150	KEY, Pendant
24c	1	P0125-135A	PANEL, Instrument
24d	1	P0125-135B	SWITCH, Rocker

E-STOP ASSEMBLY, A43765A
P150Q POWER PACK (SN FA40035F-05 & Before)

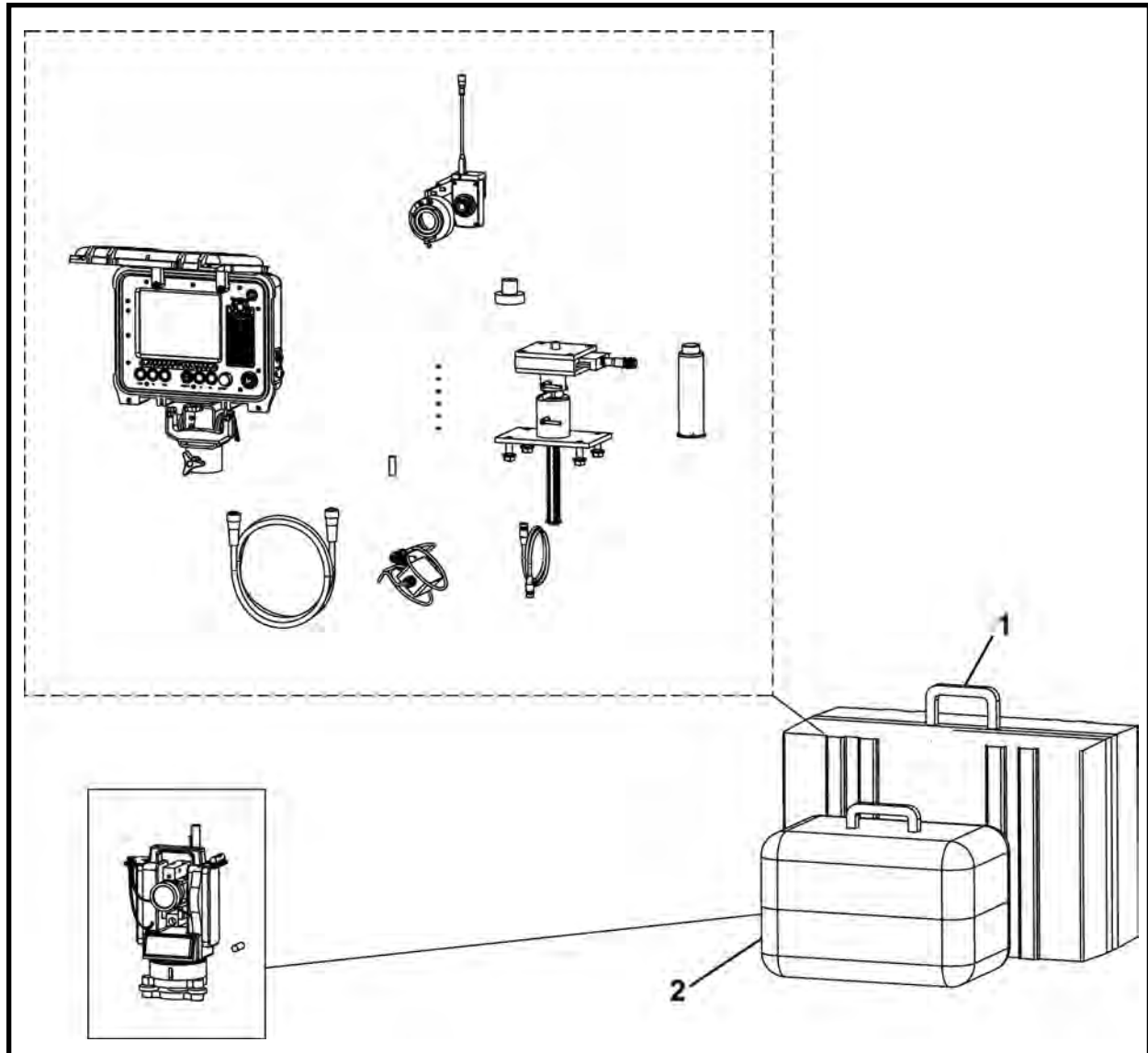


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43765A	ASSEMBLY, E-Stop
1	1	A43706P	PLATE
2	1	P0310-420F	PUSHBUTTON, Illuminated E-Stop
3	4	P0001-04-003	BOLT, Hex 1/4 UNC x .75
4	4	P0001-04-001	BOLT, Hex 1/4 UNC x .38
5	1	P0056-121F	CONTACT
6	1	P0045-122F	BLOCK, Contact
7	1	P0310-419F	MOUNTING LATCH
8	1	P0251-171	MODULE, LED
9*	180 LI	P0054-013	WIRE, 14 GA White & Black
10*	90 LI	P0054-014	WIRE, 12 GA White & Black
11*	80 LI	P0054-498	WRAP, Spiral Wire 3/8
12	1	P0310-474F	DECAL, E-Stop

LI - Linear Inch

* Not Shown

GBM GUIDANCE SYSTEM ASSEMBLY G4, FA47260F
GUIDANCE SYSTEM G4

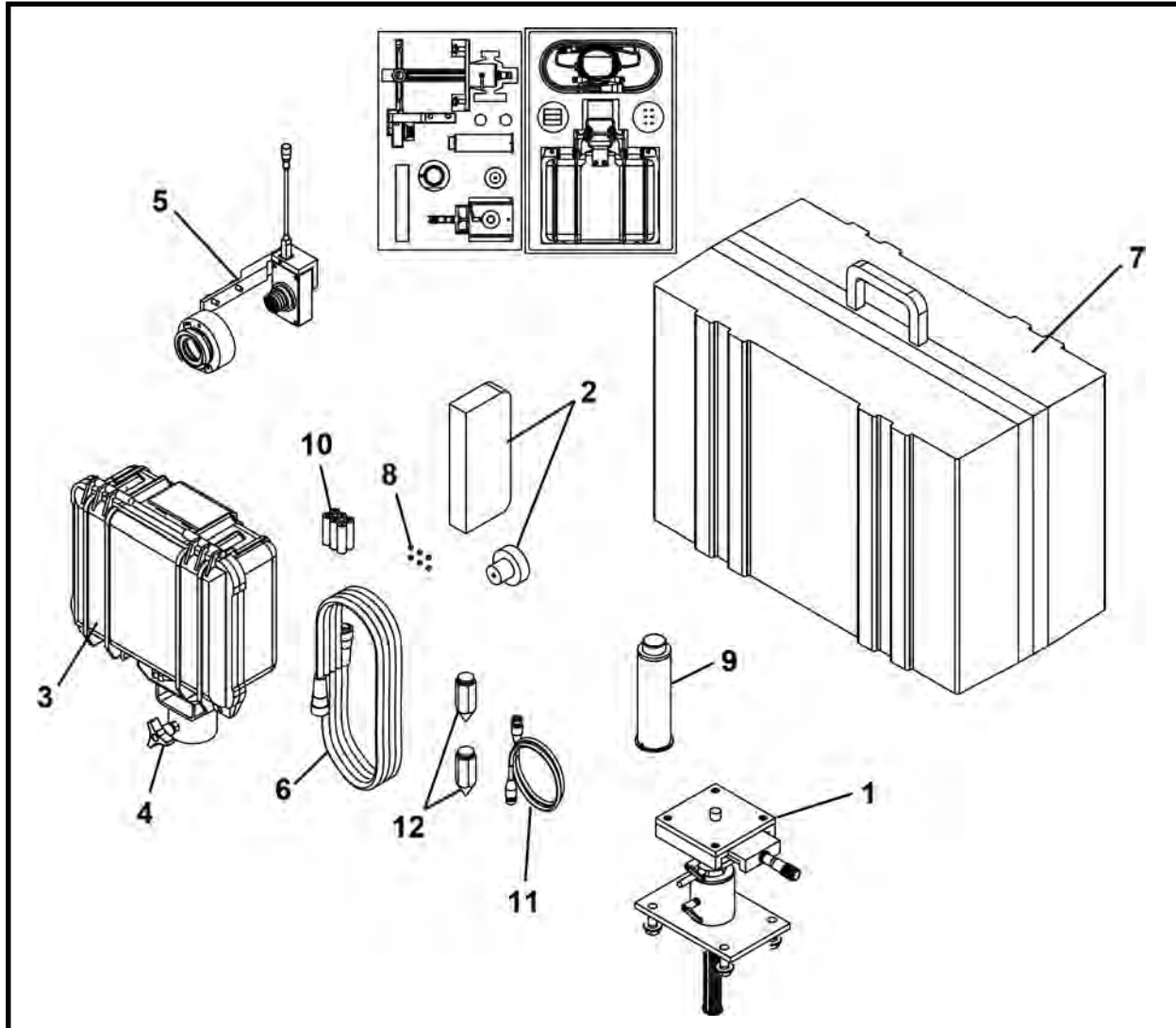


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA47260F	GBM GUIDANCE SYSTEM ASSEMBLY G4
1*	1	A47261A	ASSEMBLY, Guidance System Case G4
2*	1	A45641A	ASSEMBLY, Theodolite G4

* Refer to this section for parts information.

NOTE: If you want to upgrade from a Gen 3 Guidance System to a Gen 4 Guidance System, a Gen 4 Guidance System Upgrade, FA47396F is available. Contact your Akkerman Aftermarket Support representative for more information.

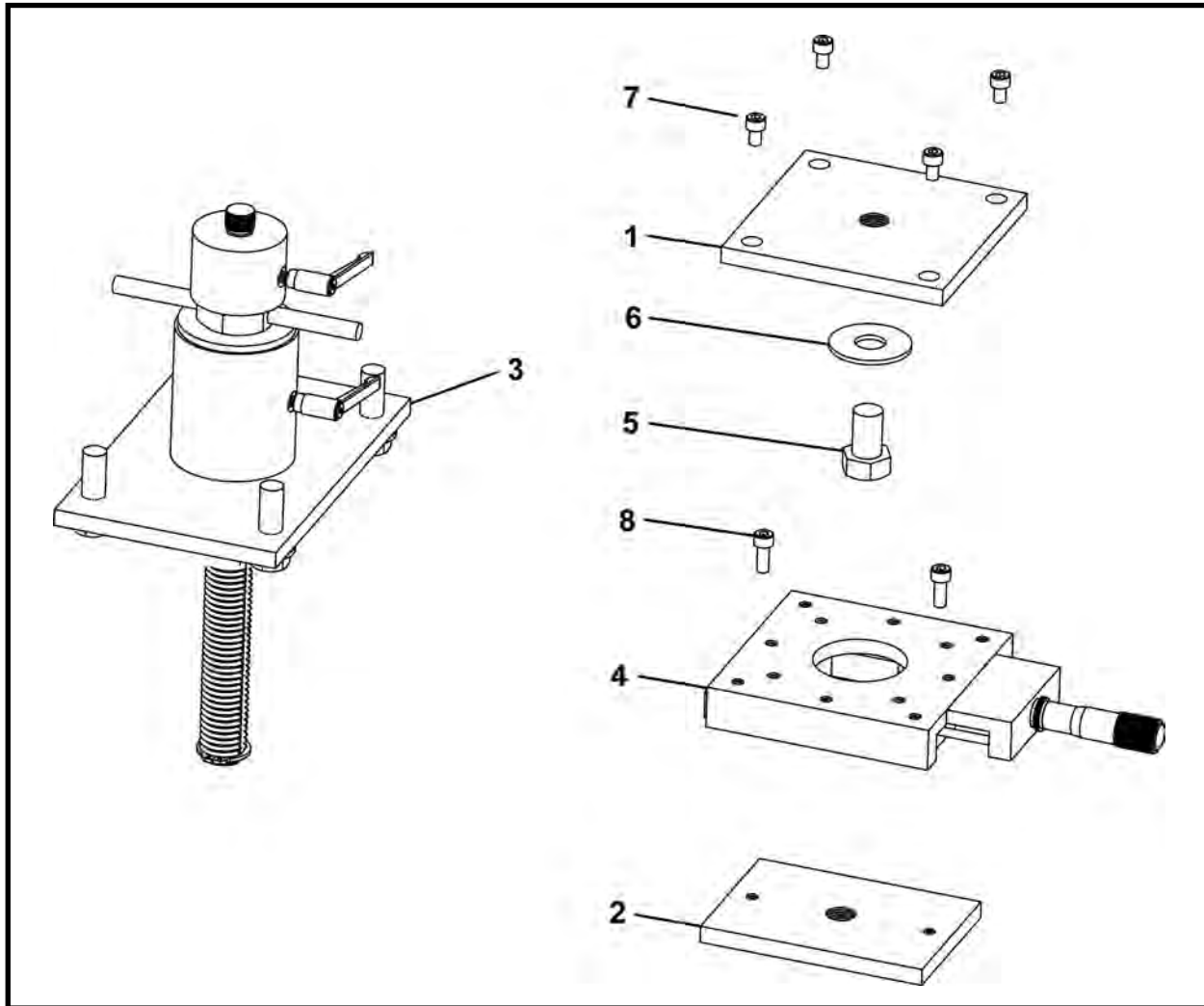
GUIDANCE SYSTEM CASE G4, A47261A
GUIDANCE SYSTEM G4



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A47261A	GUIDANCE SYSTEM CASE G4
1*	1	A42455A	STAND, Theodolite
2	1	A42028A	ASSEMBLY, Laser Sight Alignment Tool (Includes items 2a & 2b)
2a	1	P0251-133	BORESIGHT, Laser
2b	1	A42023P	HOLDER, Boresight Laser
3*	1	A47100A	ASSEMBLY, G4 Monitor
4*	1	A47284A	ASSEMBLY, Monitor Mount
5*	1	A42458A	CAMERA OPTICS
6	1	P0054-169	CABLE
7	1	P0251-612	CASE
8	6	P0064-020	BATTERY
9*	1	A44853A	TARGET ASSEMBLY, Non-Rechargeable
10	6	P0064-026	BATTERY, AA
11	1	P0054-345	CABLE
12	2	P0251-123W	PLUMB BOB

* Refer to this section for parts information.

THEODOLITE STAND, A42455A **GUIDANCE SYSTEM**

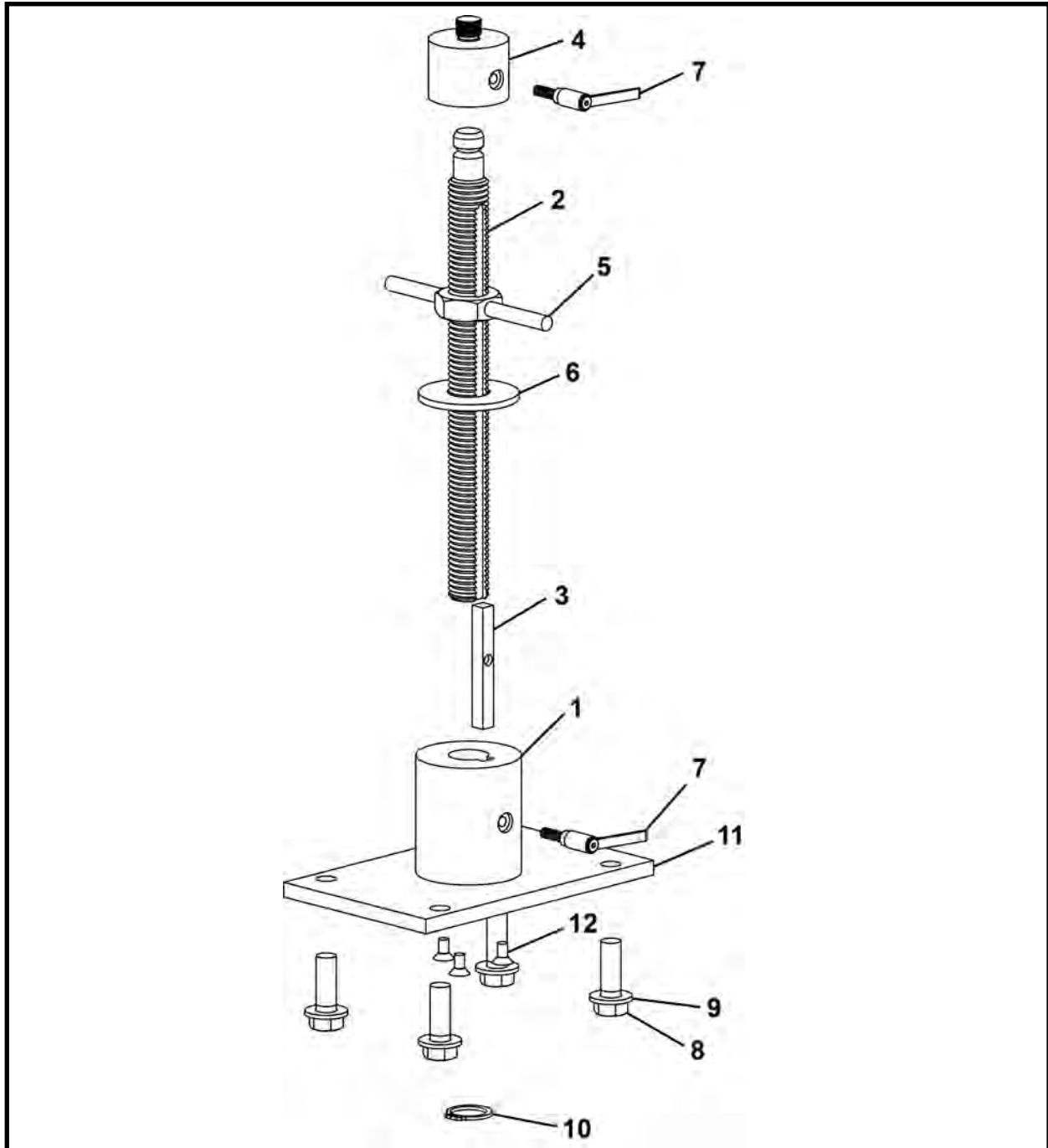


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42455A	THEODOLITE STAND
1	1	A42010P	PLATE, Upper Adapter
2	1	A42011P	PLATE, Lower Adapter
3*	1	A47628A	ASSEMBLY, Theodolite Column
4	1	P0251-129	TRANSLATION STAGE
5	1	P0027-032	BOLT, Brass Hex 5/8 UNC X 1
6	1	P0027-046	WASHER, Brass Flat 5/8
7	4	P0031-04-000	SCREW, Socket Head Cap 1/4-20 x .375
8	2	P0031-04-001	SCREW, Socket Head Cap 1/4-20 x .625

* Refer to this section for parts information.

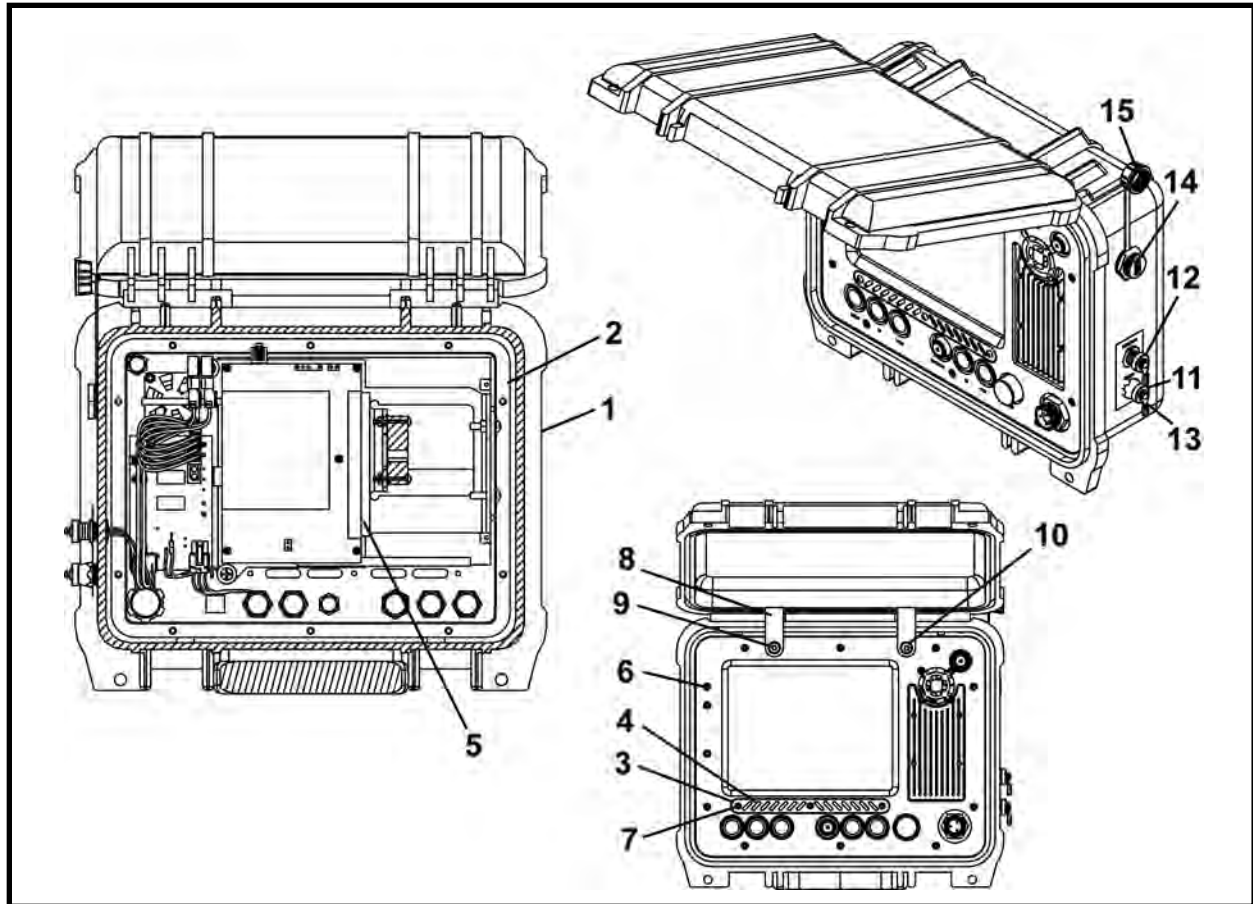
Note: If your theodolite stand is not shown, contact your Akkerman Aftermarket Support representative for parts information for your theodolite stand.

THEODOLITE COLUMN ASSEMBLY, A47628A **GUIDANCE SYSTEM**



ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A47628A	ASSEMBLY, Theodolite Column
1	1	A47601P	ROD, Keyed Collar
2	1	A47602P	ROD, Threaded
3	1	A47603P	KEY, Collar-Column
4	1	A47604P	ADAPTER, Column Swivel
5	1	A47627A	HANDLE, Column Lift
6	1	P0040-016A	WASHER, Flat Nylon 1
7	2	P0059-063	HANDLE
8	4	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
9	4	P0040-008	WASHER, Hardened Flat 1/2
10	1	P0077-011	SNAP RING, External
11	1	A47600P	PLATE, Collar Mount
12	3	P0030-04-002	SCREW, Flat Head Cap 1/4 UNC x .5

MONITOR ASSEMBLY G4, A47100A **GUIDANCE SYSTEM G4**

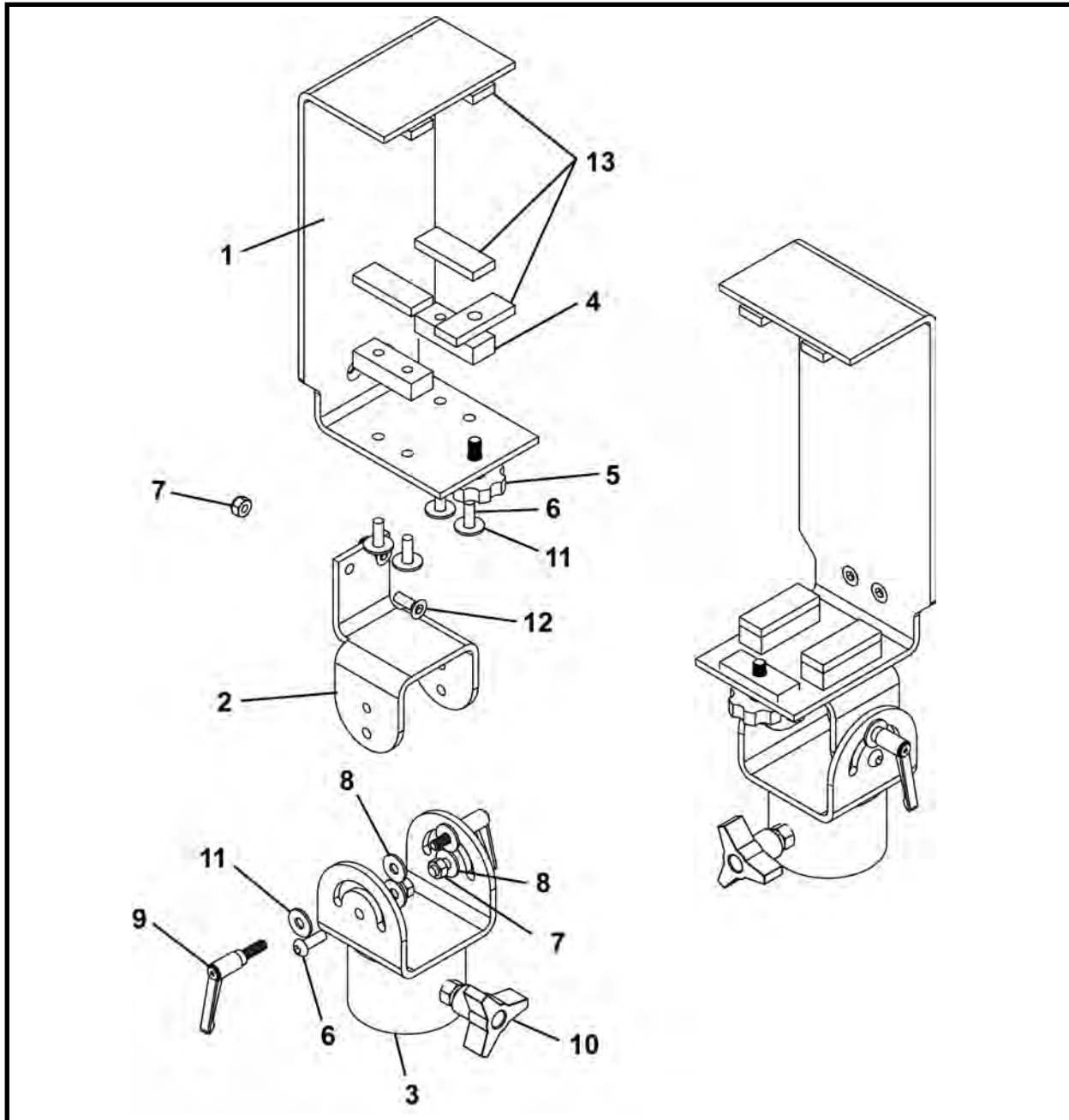


ITEM	QTY	PART NO.	DESCRIPTION
0		A47100A	MONITOR ASSEMBLY G4
1	1	NSS	CASE w/Foam
2	1	NSS	PANEL, FRAME
3	1	A47104P	COVER, Vent
4	2	A47105P	FILTER, Vent
5*	1	A47106A	ELECTRICAL ASSEMBLY
6	10	P0030-00-012	SCREW, Socket Head Cap 6/32 x .75
7	3	P0030-00-002	BOLT, Button Head 6-32 x .25
8	2	A47108P	SUPPORT, Lid
9	2	P0030S-05-003	5/16 x 1/4-20 x 3/8 socket hea
10	2	P0085-010	ORING
11	1	NSS	CONNECTOR
12	1	NSS	CONNECTOR
13	1	P0054-390	LANYARD
14	1	NSS	CABLE, USB
15	1	P0251-471B	CAP, Waterproof

NSS - Not Sold Separately; contact your Akkerman Aftermarket Support representative for factory replacement.

* Refer to Section 5, Electrical, for parts information.

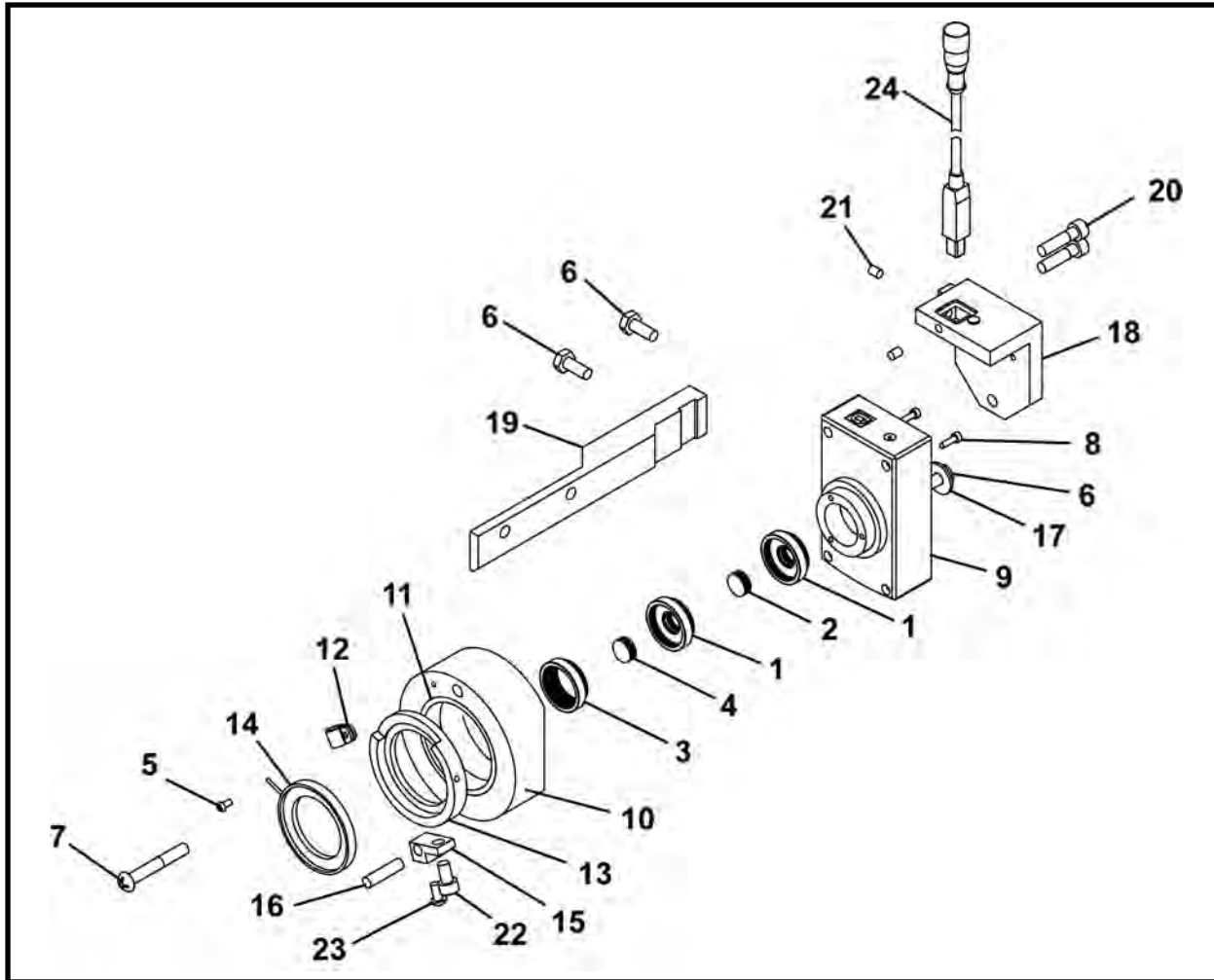
MONITOR MOUNT ASSEMBLY, A47284A
GUIDANCE SYSTEM G4



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A47284A	ASSEMBLY, Monitor Mount
1	1	A47283A	MOUNT, Monitor
2	1	A42051P	MOUNT, Pivot
3	1	A42053A	MOUNT, Tablet
4	2	A47281P	BAR, Aluminum
5	1	P0059-081	KNOB
6	6	P0022-14-204	SCREW, Button Head Socket 1/4 UNC x .75
7	4	P0013-04-000	NUT, Nylock 1/4
8	4	P0059-064	WASHER
9	2	P0059-063	HANDLE
10	1	P0059-062	HANDLE
11	6	P0040-004	WASHER, Hardened Flat 1/4
12	2	P0030-04-003	SCREW, Flat Head Cap 1/4 UNC x .75
13	14 LI	P0253-018	GASKET

LI - Linear Inch

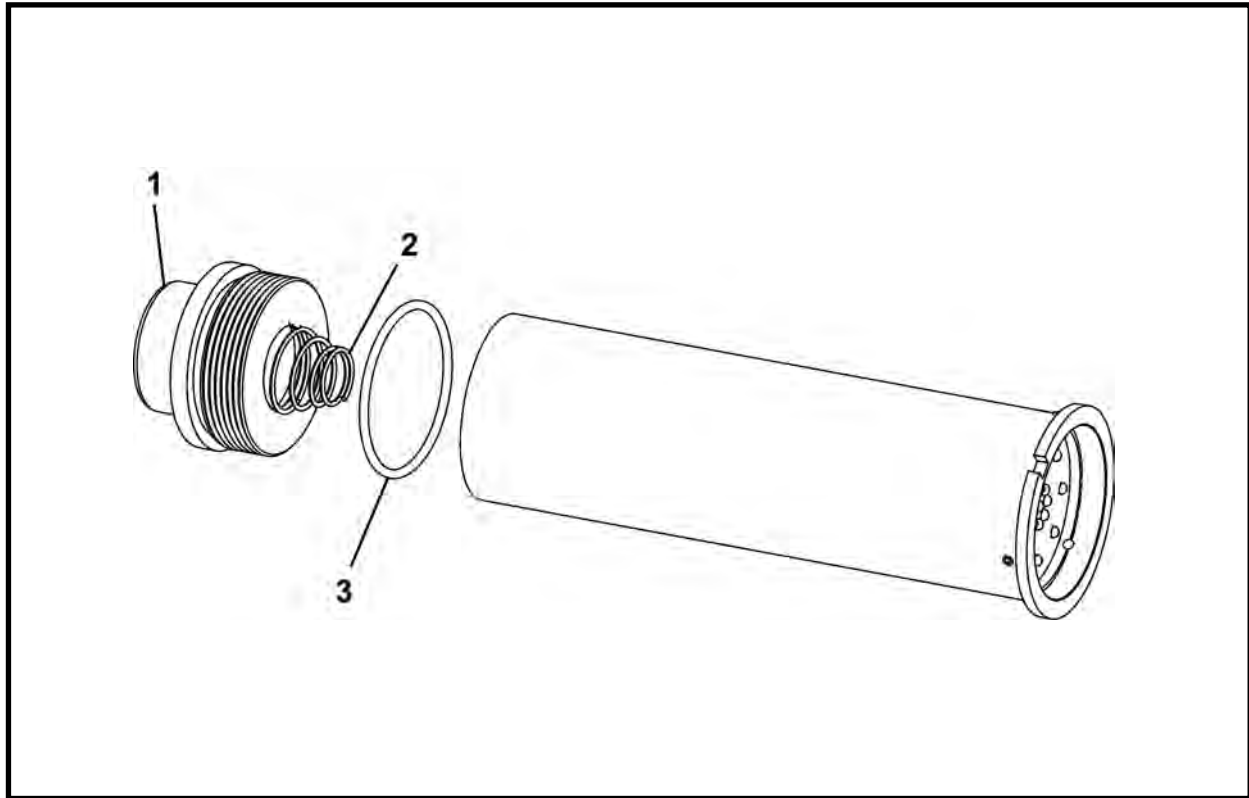
CAMERA OPTICS ASSEMBLY, A42458A
GUIDANCE SYSTEM G4



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42458A	ASSEMBLY, Camera Optics
1	2	P0250-124	MOUNT, Lens
2	1	P0250-125	LENS 36
3	1	P0250-127	TUBE, Extension
4	1	P0250-126	LENS 42
5	1	P0310-431A	SCREW, #6 With Square Washer
6	3	P0001-04-002.5	BOLT, 1/4-20 x 5/8 SS
7	1	P0017-14-208	SCREW, Round Head Machine 1/4-20 X 1 3/4 SS
8	2	PM3B-.5-10	SCREW, Socket Head Stainless Steel Cap, M3-.5 x 10
9	1	P0251-143	CAMERA
10	1	A40773P	COUNTERWEIGHT, Theodolite
11	8 LI	P0253-118	TAPE 1/8 x 1/2
12	1	P0055-122	CLAMP
13	1	P0251-141	MOUNT, Iris
14	1	P0251-142	IRIS, Stainless Steel
15	1	A42462P	BLOCK, Iris Mount
16	1	A42468P	MOUNT, Iris
17	1	P0040-004	WASHER, Hardened Flat 1/4
18	1	A47398A	MOUNT, Camera
19	1	A42465P	ARM, Camera
20	2	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
21	2	P033-1024-001	SCREW, Set 10-24 x .25
22	1	P0031-04-000	SCREW, Socket Head Cap 1/4 x .38
23	1	P0019-10-323	SCREW, Pan Head #10-32 x .38
24	1	P0054-653	CABLE

LI - Linear Inch

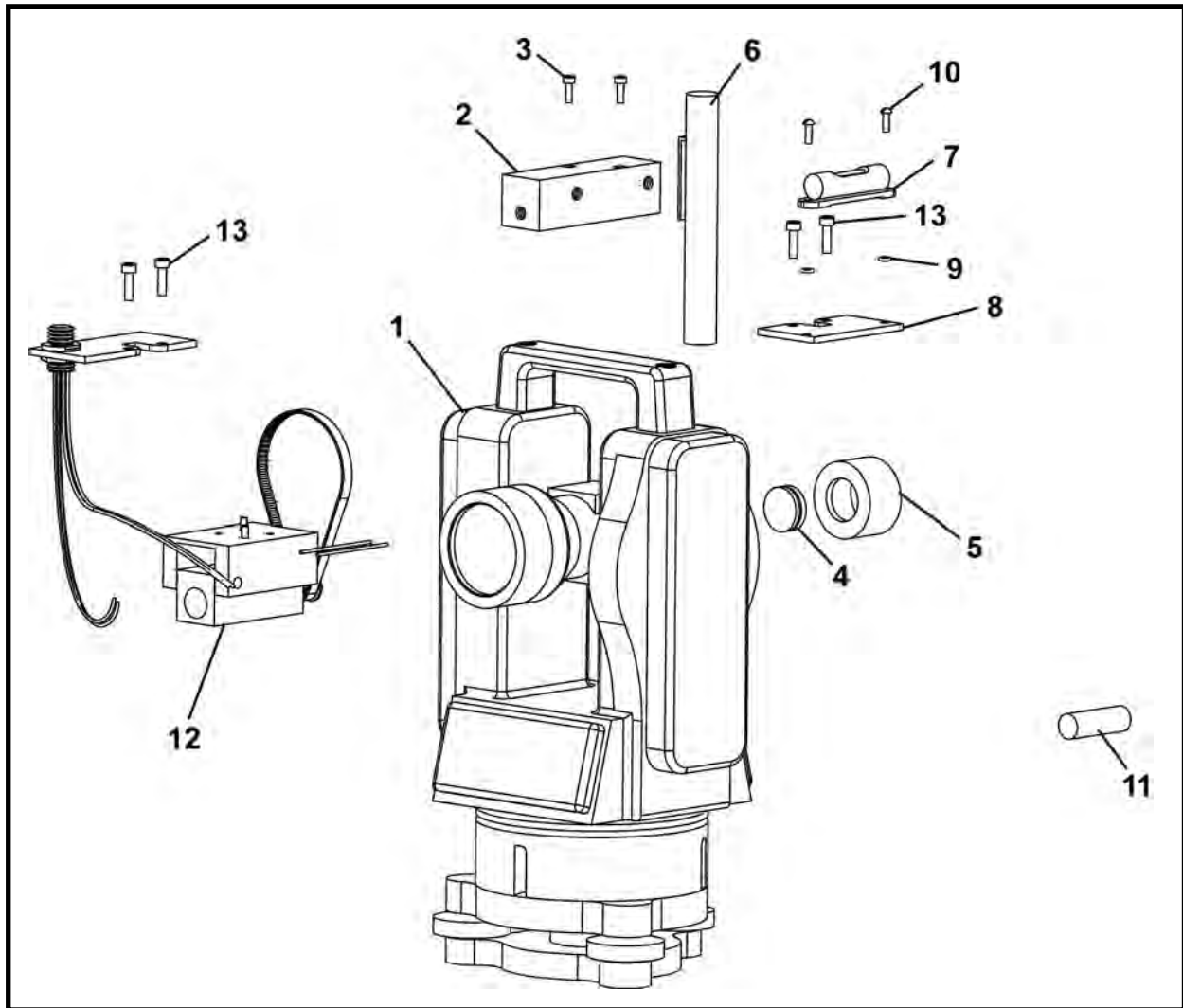
NON-RECHARGEABLE TARGET ASSEMBLY, A44853A
GUIDANCE SYSTEM



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44853A	TARGET ASSEMBLY, Non-Rechargeable
1	1	A44852P	CAP, Battery Target
2	1	P0070-058	SPRING, Compression
3	1	P0085-131	ORING

Note: Uses Replaceable D Size Alkaline Batteries

THEODOLITE G4 ASSEMBLY, A45641A
GUIDANCE SYSTEM G4

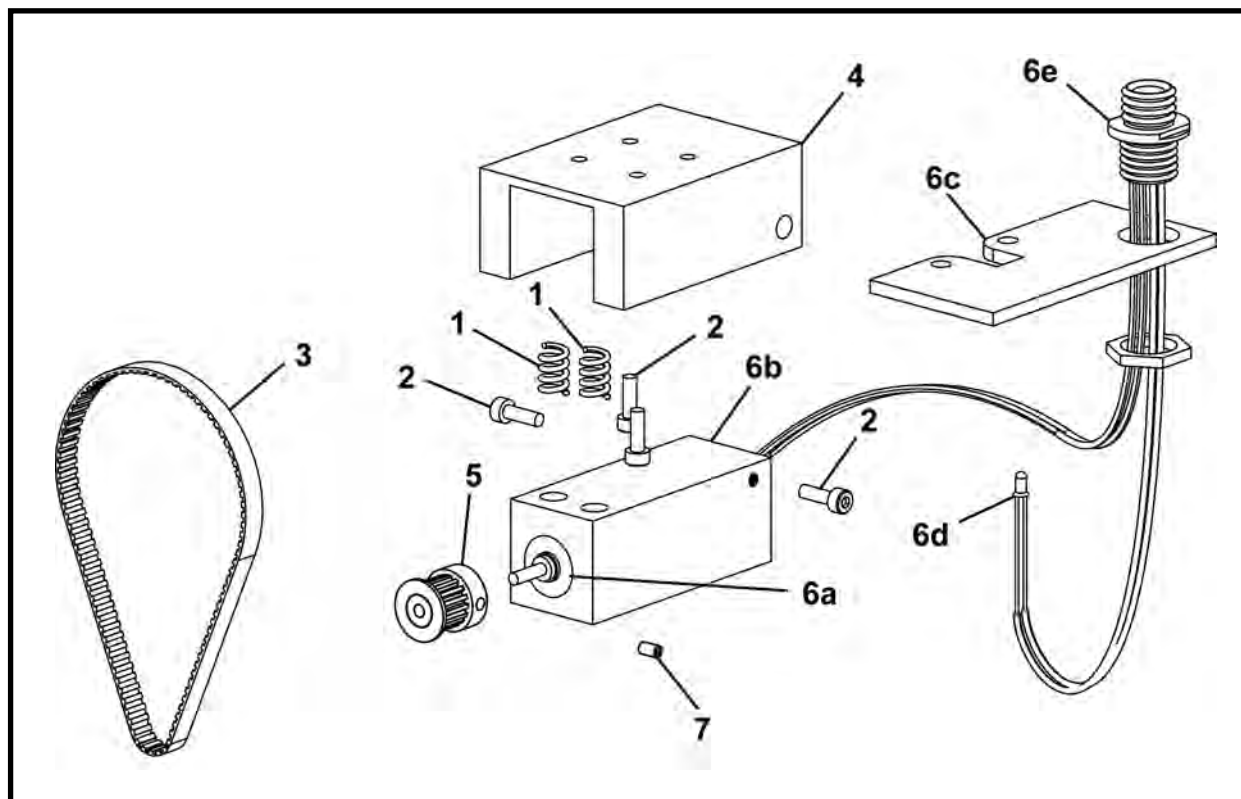


ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A45641A	ASSEMBLY, Theodolite G4
1	1	P0251-123	THEODOLITE (Includes items 1a - 1g)
1a	1	P0251-123B	CASE, Battery
1b	1	P0251-123E	LEVEL
1c1	1	P0251-123L	HOLDER, LCD (Tan)
1c2	1	P0251-123P	HOLDER, LCD (Teal)
1d	1	P0251-123M	LATCH, Carrying Case
1e	1	P0251-123N	CASE, Theodolite
1f	1	P0251-123Q	LEVEL, Bubble
1g	1	P0251-123S	COVER, Bubble Level
2	1	A40772P	MOUNT, Camera
3	2	PM3B-.5-10	SCREW, Socket Head Cap SS M3-10
4	1	P0251-123A	EYEPiece 40
5	1	A42022P	RING, Seal
6	1	P0251-147	PEN, Lens
7	1	P0251-163	ASSEMBLY, Level (Includes item 7a)
7a	1	P0251-123E	LEVEL
8	1	A42467P	PLATE, Level Mounting
9	2	P0085-006	ORING
10	2	P0017-06-322	SCREW, Slotted Machine 6-32 x .375
11	6	P0064-026	BATTERY, AA Size
12**	1	A42037A	ASSEMBLY, Motor Drive
13	4	PM04B-0.70-014	SCREW, Socket Head Stainless Steel Cap M4 x 14

* Includes carrying case, item 1e.

** Refer to this section for parts information.

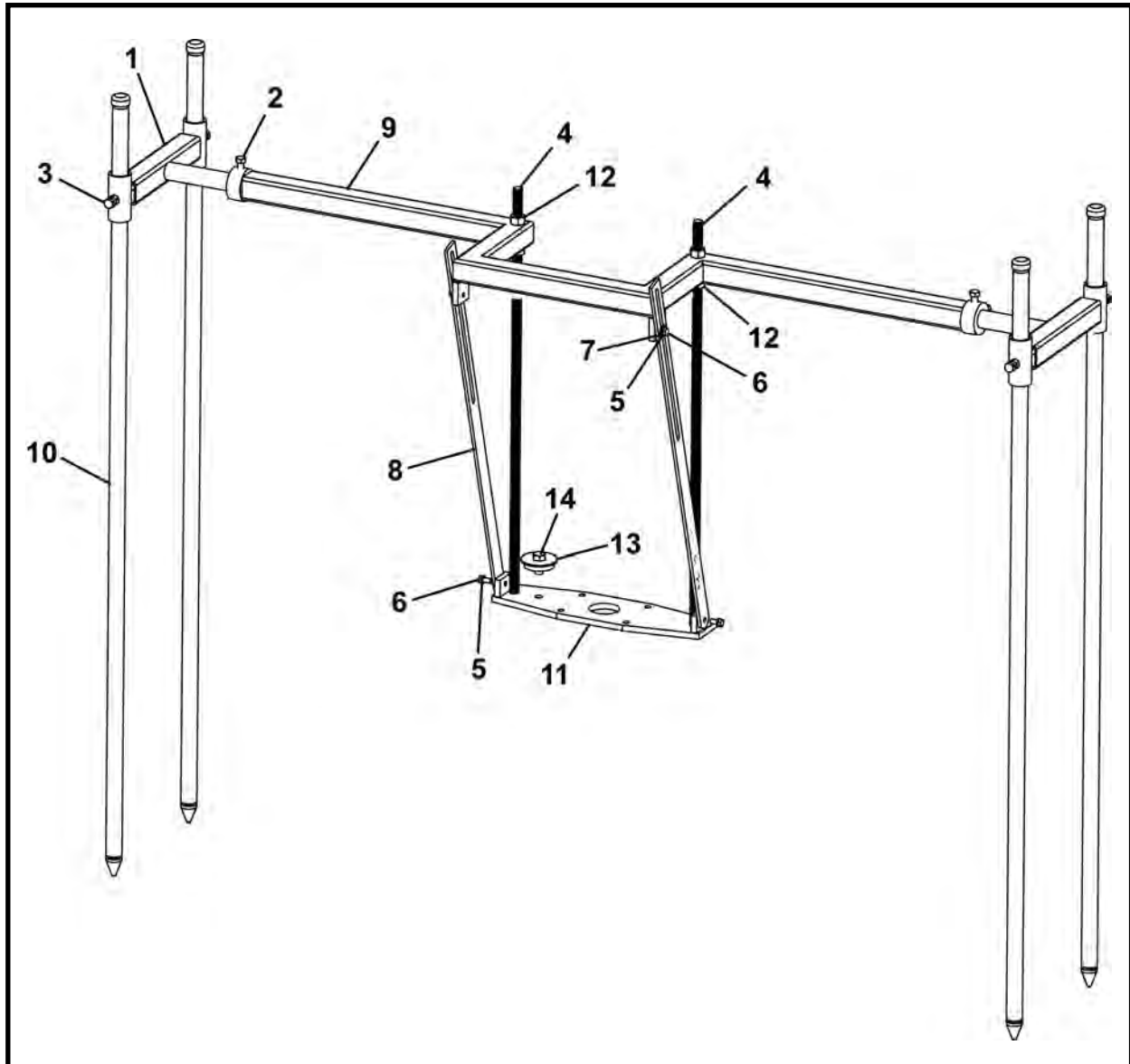
MOTOR DRIVE ASSEMBLY, A42037A
GUIDANCE SYSTEM G4



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42037A	MOTOR DRIVE ASSEMBLY
1	2	P0070-034	SPRING
2	4	PM3B-.5-10	SCREW, Socket Head Cap M3-10 SS
3	1	P0067-049	BELT, Timing
4	1	A42039P	HOUSING, Motor Bracket
5	1	P0066-112	PULLEY
6	1	A42097A	ASSEMBLY, Motor - Remote Focus (Includes items 6a - 6e)
6a	1	NSS	MOTOR, Gear
6b	1	NSS	MOTOR, Housing
6c	1	NSS	PLATE, Connector Mounting
6d	1	NSS	LED, Red
6e	1	NSS	CONNECTOR
7	1	P0033-440-03	SCREW, Set

NSS - Not Sold Separately; contact your Akkerman Aftermarket Support representative for factory replacement.

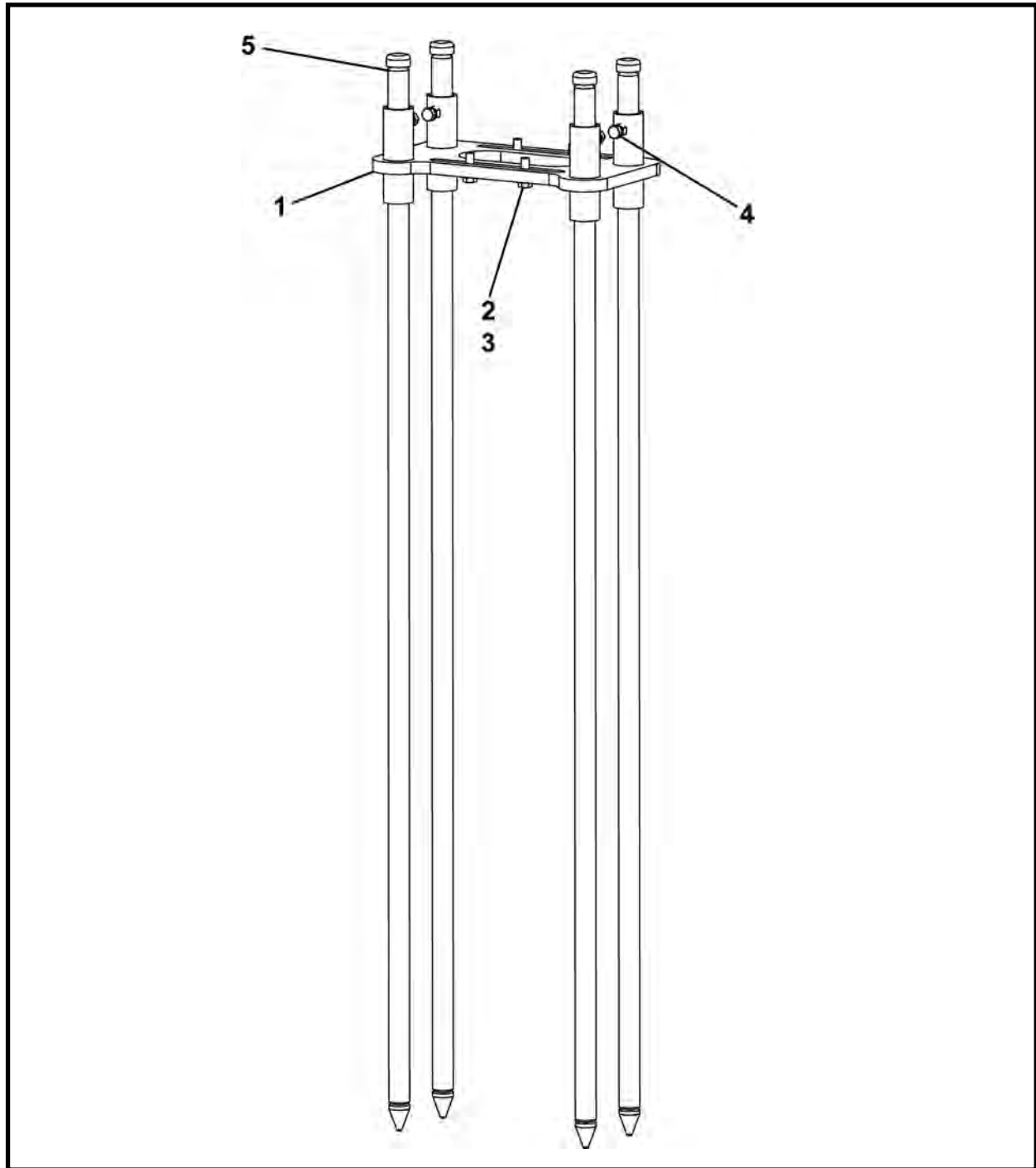
THEODOLITE STAND ASSEMBLY - SINGLE STAGE FRAME, FA42220F **GUIDANCE SYSTEM**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42220F	THEODOLITE STAND ASSEMBLY
1	2	A42222A	STAND, End
2	4	P0001-08-005	BOLT, Hex 1/2-13 x 1.25
3	4	P0001-08-004	BOLT 1/2-13 x 1
4	2	A42232P	ADJUSTMENT, Threaded
5	4	P0045-006	WASHER, Lock 3/8
6	4	P0001-06-003	BOLT, Hex 3/8-16 x .75
7	2	P0040-006	WASHER, Flat 3/8
8	2	A42234P	STIFFENER, Theodolite Pad
9	1	A42221A	STAND, Center
10	4	A42235A	STAKE, Medium
11	1	A42233A	PAD, Theodolite
12	4	P0003-12-000	NUT, 3/4
13*	1	A46819P	BUSHING, Theodolite Mount
14*	1	P0001-10-005	BOLT, Hex 5/8 UNC x 1.25

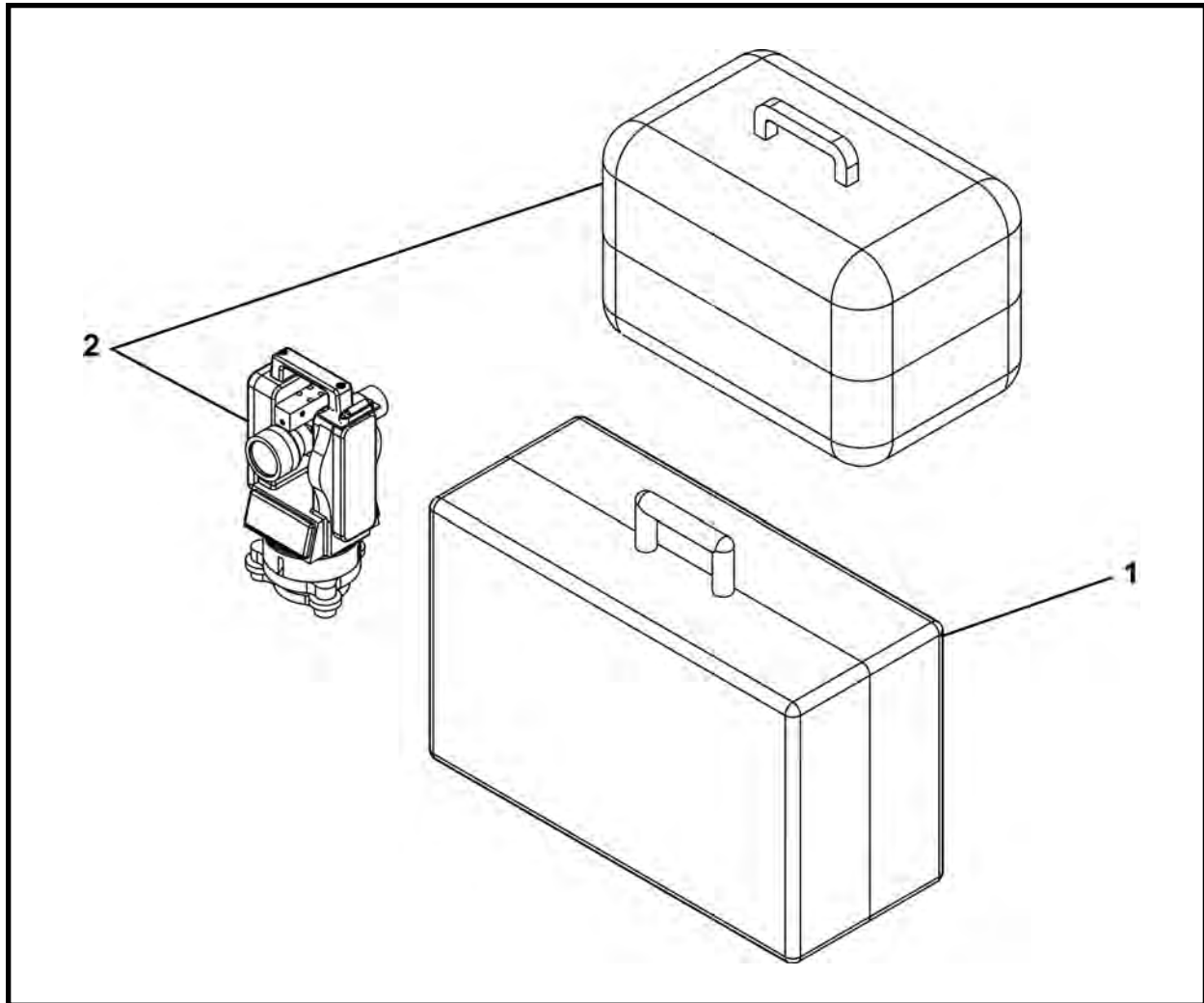
* Items 13 and 14 are used to attach theodolite when not able to use elevator column assembly.

THEODOLITE SHAFT STAND - LATCHING FRAME, FA40051F
GUIDANCE SYSTEM



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40051F	THEODOLITE SHAFT STAND
1	1	A40117A	BASE, Mounting
2	4	P0001-08-006	BOLT, 1/2 UNC x 1.5
3	4	P0040-008	WASHER, Flat 1/2
4	4	P0001-08-004	BOLT, 1/2 UNC x 1
5	4	A42235A	STAKE

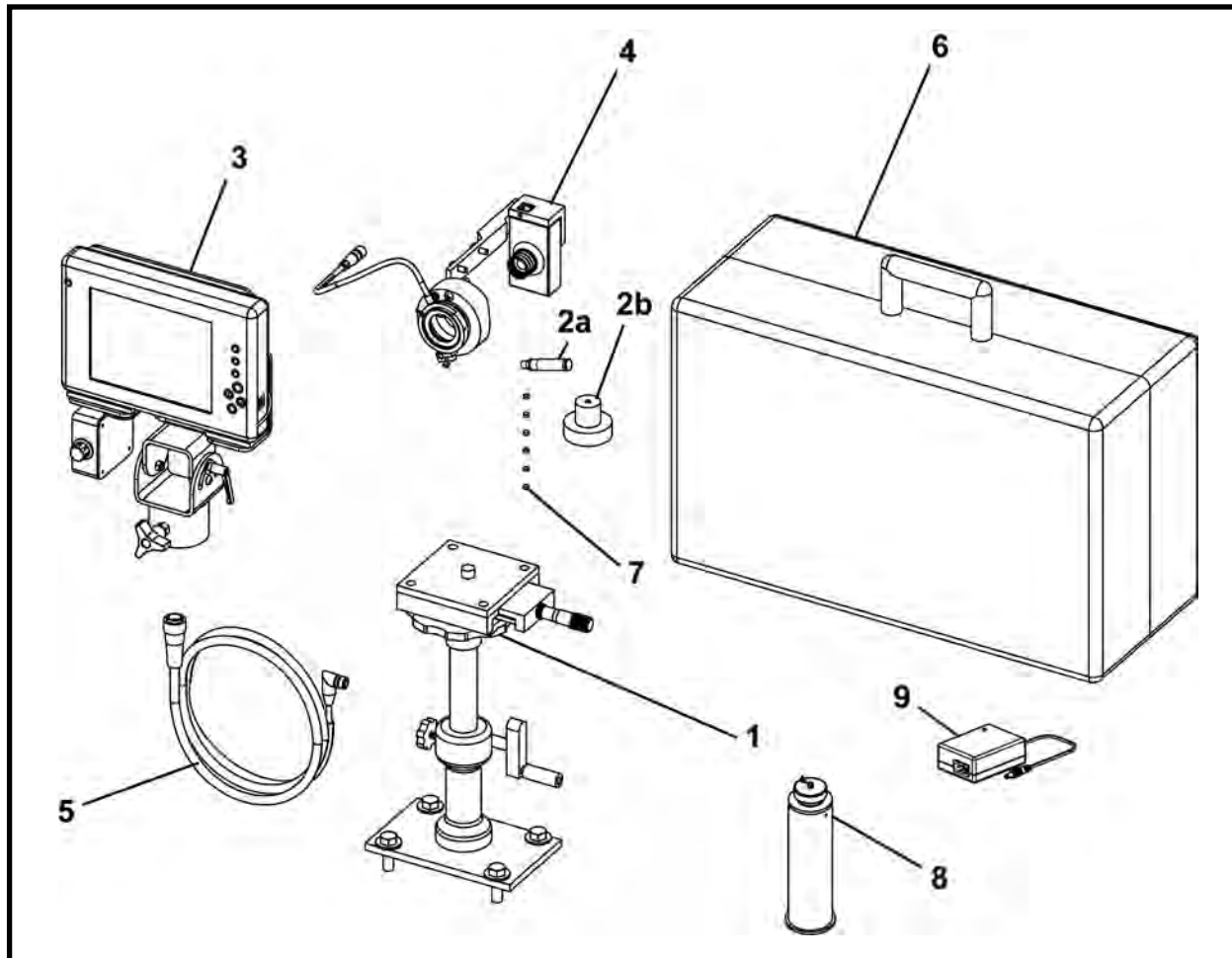
GUIDANCE SYSTEM ASSEMBLY G3, FA42035F
GUIDANCE SYSTEM G3 WITHOUT REMOTE FOCUS (SN FA42035F-86 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42035F	GUIDANCE SYSTEM ASSEMBLY G3
1*	1	A42460A	ASSEMBLY, Guidance System Case G3
2*	1	A42466A	ASSEMBLY, Theodolite G3

* Refer to this section for parts information.

GUIDANCE SYSTEM CASE G3, A42460A
GUIDANCE SYSTEM G3 WITHOUT REMOTE FOCUS (SN FA42035F-86 & BEFORE)

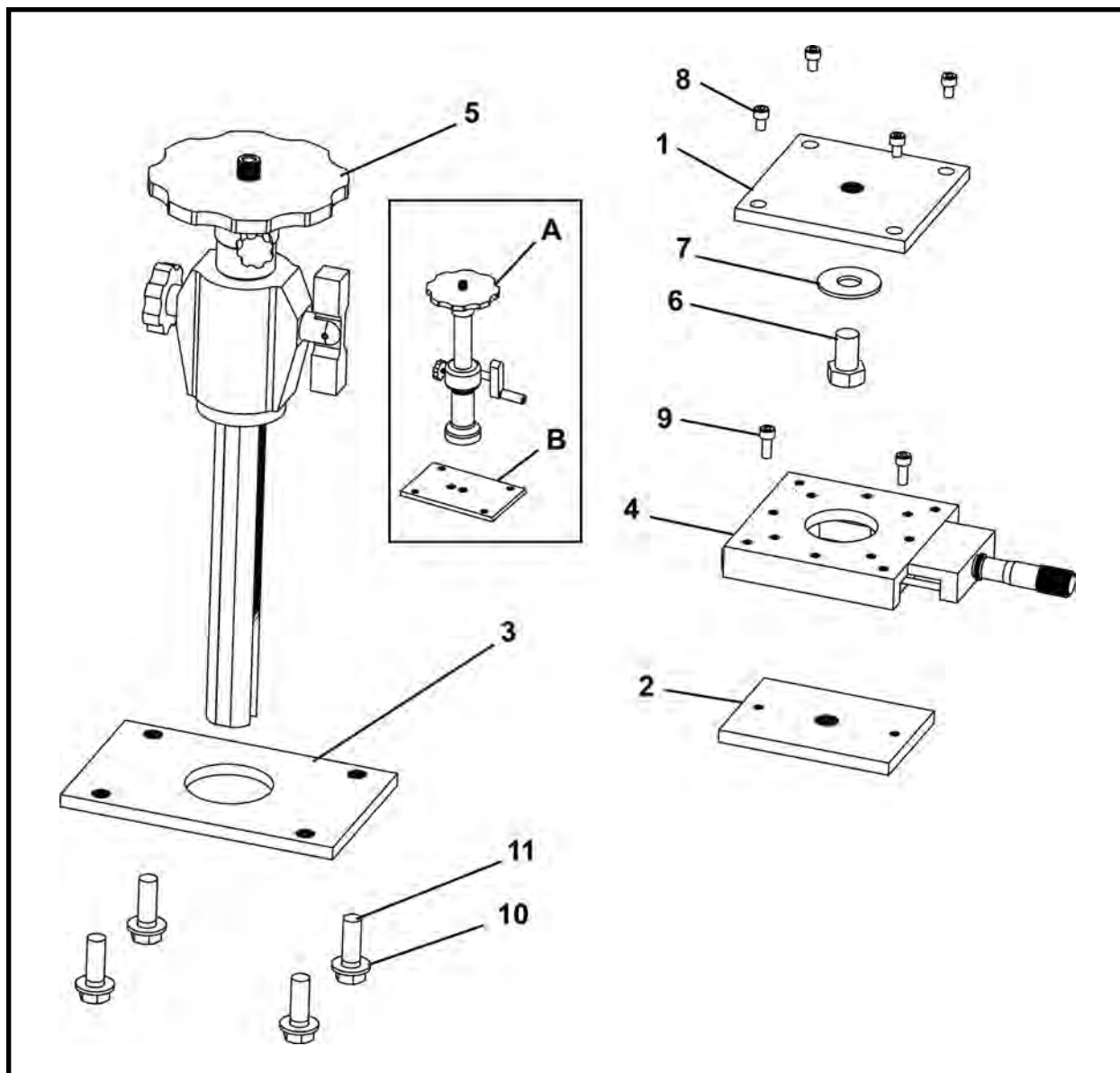


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42460A	GUIDANCE SYSTEM CASE G3
1*	1	A42455A	STAND, Theodolite G3
2	1	A42028A	ASSEMBLY, Laser Sight Alignment Tool (Includes items 2a & 2b)
2a	1	P0251-133	BORESIGHT, Laser
2b	1	A42023P	HOLDER, Boresight Laser
3*	1	A42454A	ASSEMBLY, Tablet PC
4*	1	A42458A	CAMERA OPTICS
5	1	A42456A	ASSEMBLY, GBM Power Cable G3
6	1	P0251-144	CASE, Guidance System
7	6	P0064-020	BATTERY
8a*	1	A40150A	TARGET (Rechargeable)
8b*	1	A44853A	TARGET (Uses Replaceable D Size Alkaline Batteries)
9*	1	P0310-707	CHARGER, Smart (Use with A40150A Target)

NOTE: If you want the remote focus component added to your guidance system (SN FA42035F-86 & Before), refer to Remote Focus Assembly, FA42096F in this section.

* Refer to this section for parts information.

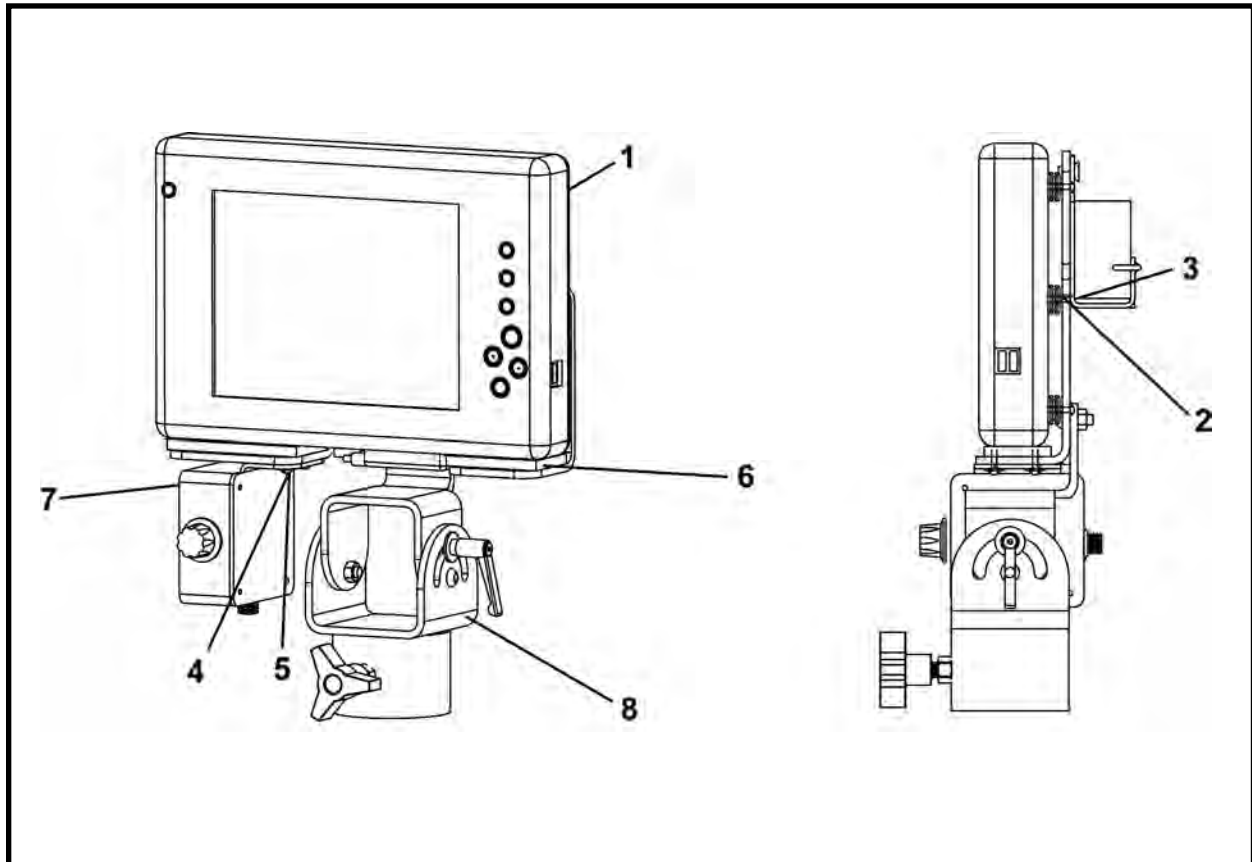
THEODOLITE STAND, A42455A
GUIDANCE SYSTEM G3



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42455A	THEODOLITE STAND
1	1	A42010P	PLATE, Upper Adapter
2	1	A42011P	PLATE, Lower Adapter
3*	1	A46385P	PLATE, Mounting
4	1	P0251-129	TRANSLATION STAGE
5*	1	A46386A	COLUMN, Elevator
6	1	P0027-032	BOLT, 5/8-11 UNC X 1
7	1	P0027-046	WASHER, Flat 5/8
8	4	P0031-04-000	SCREW, Socket Head Cap 1/4-20 X 3/8
9	2	P0031-04-001	SCREW, Socket Head Cap 1/4-20 X 5/8
10	4	P0040-008	WASHER, Hardened Flat 1/2
11	4	P0001-08-006	BOLT, 1/2 UNC x 1.50

* Earlier models were equipped with Elevator Column, P0251-128 (A) and Mounting Plate, A42017P (B). Elevator Column P0251-128 is no longer available and must be replaced with Elevator Column, A46386A (item 5) and Mounting Plate, A46385P (item 3) when part replacement is necessary.

TABLET PC ASSEMBLY, A42454A
GUIDANCE SYSTEM G3 WITHOUT REMOTE FOCUS (SN FA42035F-86 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42454A	TABLET PC ASSEMBLY
1	1	P0251-157	TABLET PC
2	5	P0253-132	BUMPER, Recessed Rubber
3	5	PM4I-0.7-14	SCREW, Flat Slotted Machine
4	2	P0017-08-323	SCREW, Machine 8-32 x .5
5	2	P0040-001	WASHER, #8
6	5 LI	P0253-018	GASKET, Rubber 1/4
7**	1	A42498A	ASSEMBLY, Power Adapter
8*	1	A42056A	ASSEMBLY, Docking Station
9***	1	P0064-122	BATTERY, Tablet PC

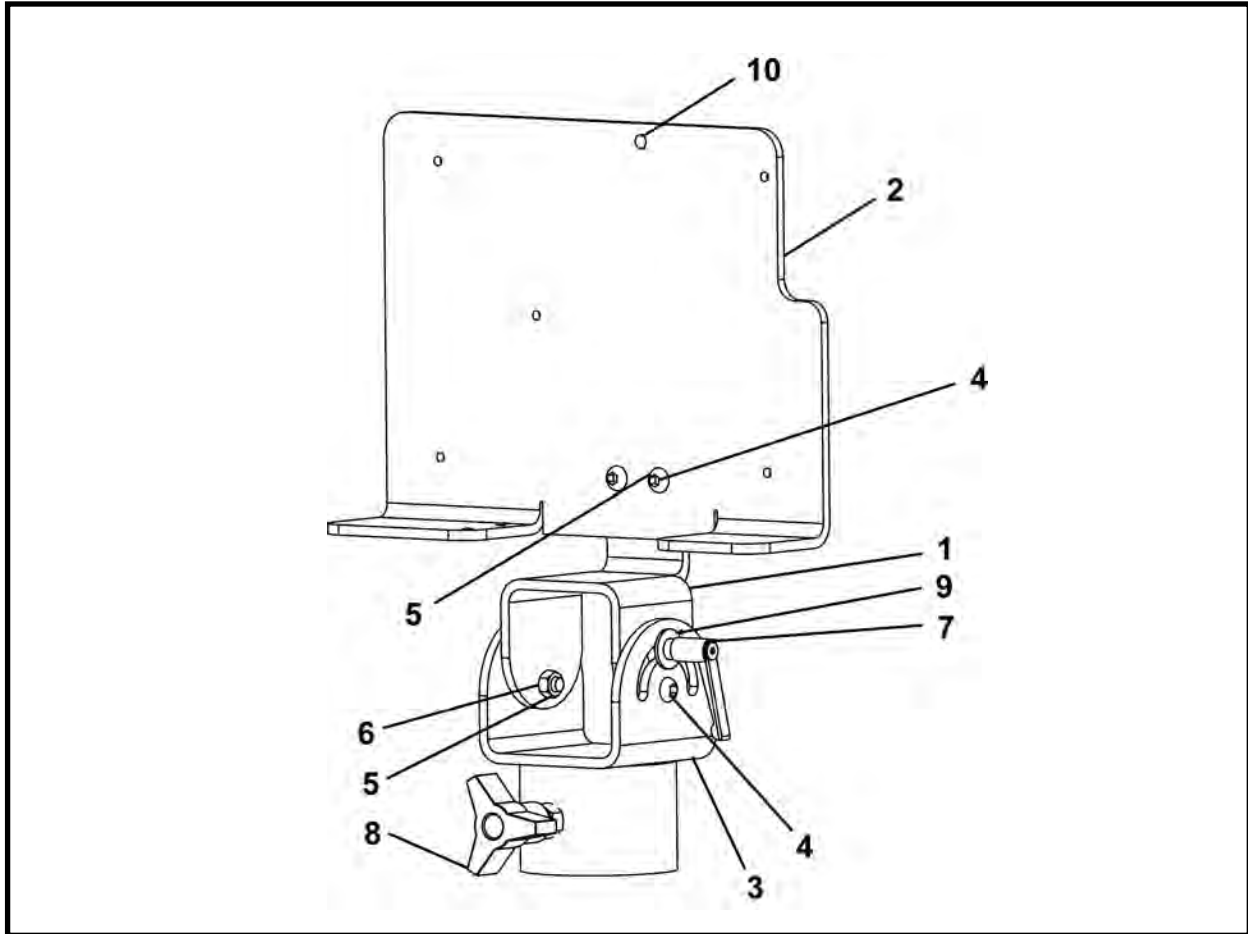
* Refer to this section for parts information.

** Refer to Section 5, Electrical, for parts information.

*** Not Shown

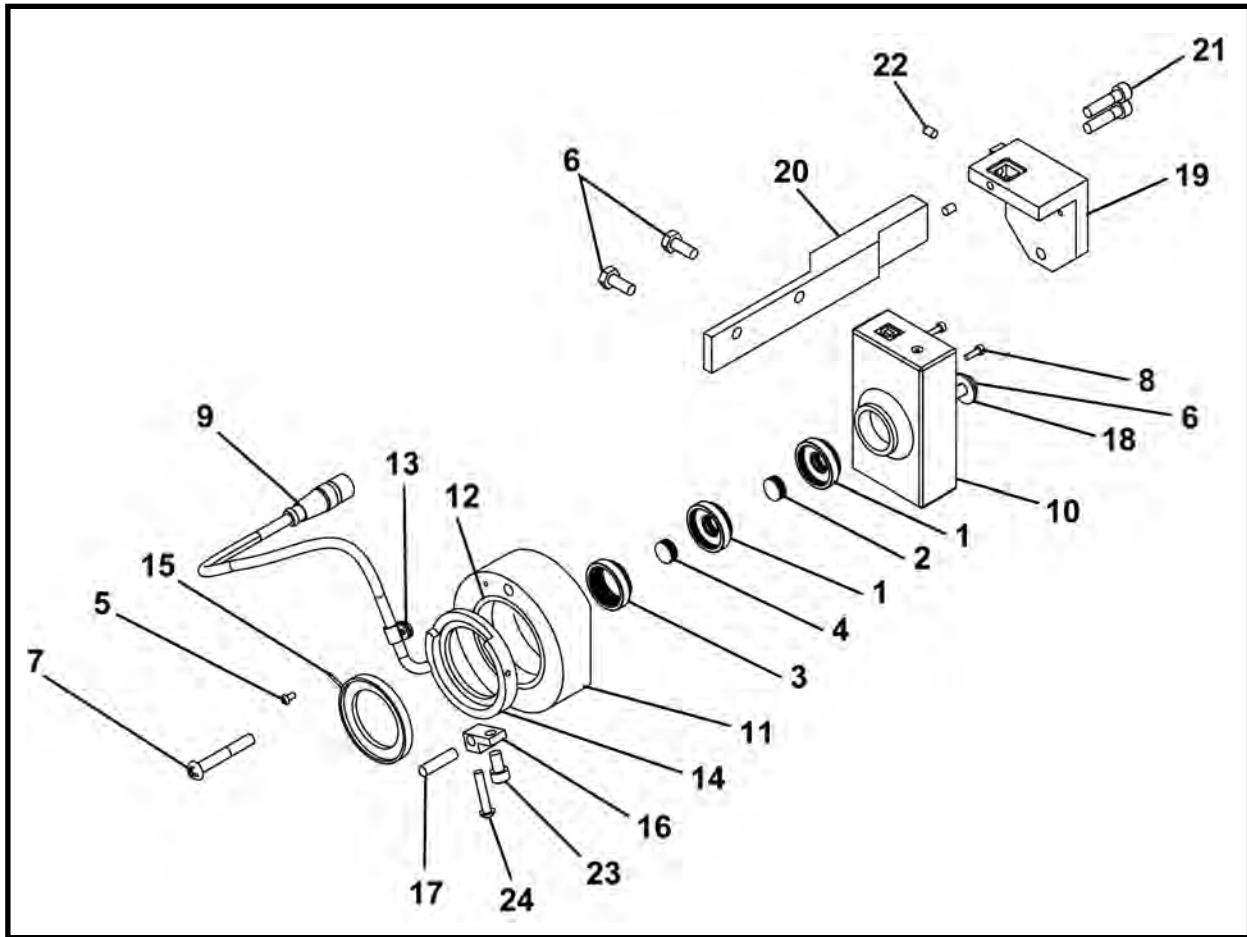
LI - Linear Inch

DOCKING STATION ASSEMBLY, A42056A
GUIDANCE SYSTEM G3



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42056A	ASSEMBLY, Docking Station
1	1	A42051P	MOUNT, Pivot
2	1	A42052P	BACK, Docking Station
3	1	A42053A	MOUNT, Tablet
4	4	P0022-14-204	SCREW, Button Head Socket 1/4-20 x .75
5	4	P0013-04-000	NUT, 1/4
6	3	P0059-064	WASHER, Plastic
7	1	P0059-063	HANDLE, Plastic
8	1	P0059-062	HANDLE, Plastic
9	1	P0040-004	WASHER, Hardened Flat 1/4
10	1	P0030-04-002	SCREW, Flat Head Cap 1/4 UNC x .5

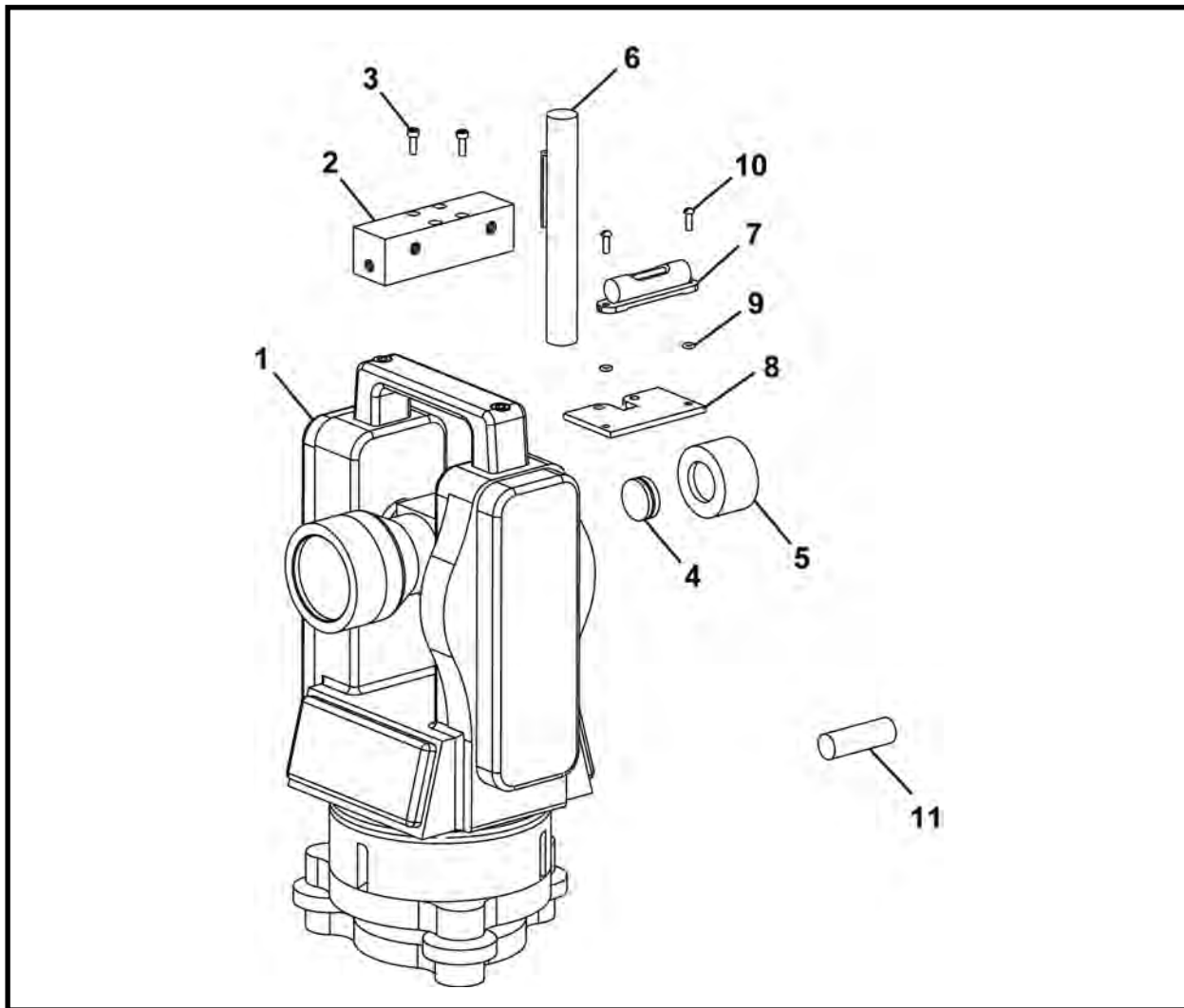
CAMERA OPTICS ASSEMBLY, A42458A
GUIDANCE SYSTEM G3 WITHOUT REMOTE FOCUS (SN FA42035F-86 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42458A	ASSEMBLY, Camera Optics
1	2	P0250-124	MOUNT, Lens
2	1	P0250-125	LENS 36
3	1	P0250-127	TUBE, Extension
4	1	P0250-126	LENS 42
5	1	P0310-431A	SCREW, #6 With Square Washer
6	3	P0001-04-002.5	BOLT, 1/4-20 x 5/8 SS
7	1	P0017-14-208	SCREW, Round Head Machine 1/4-20 X 1 3/4 SS
8	2	PM3B-05-10	SCREW, Socket Head Cap, M3-.5 x 10
9	1	A42006A	CABLE, LED
10	1	P0251-143	CAMERA
11	1	A40773P	COUNTERWEIGHT, Theodolite
12	1 LI	P0253-118	TAPE 1/8 x 1/2
13	1	P0055-122	CLAMP
14	1	P0251-141	MOUNT, Iris
15	1	P0251-142	IRIS
16	1	A42462P	BLOCK, Iris Mount
17	1	A42468P	MOUNT, Iris
18	1	P0040-004	WASHER, Hardened Flat 1/4
19	1	A42464P	PLATE, Camera Mount
20	1	A42465P	ARM, Camera Mount
21	2	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
22	2	P033-1024-001	SCREW, Set 10-24 x .25
23	1	P0031-04-000	SCREW, Socket Head Cap 1/4 x .38
24	1	P0019-10-323	SCREW, Pan Head #10-32 x .38

LI - Linear Inch

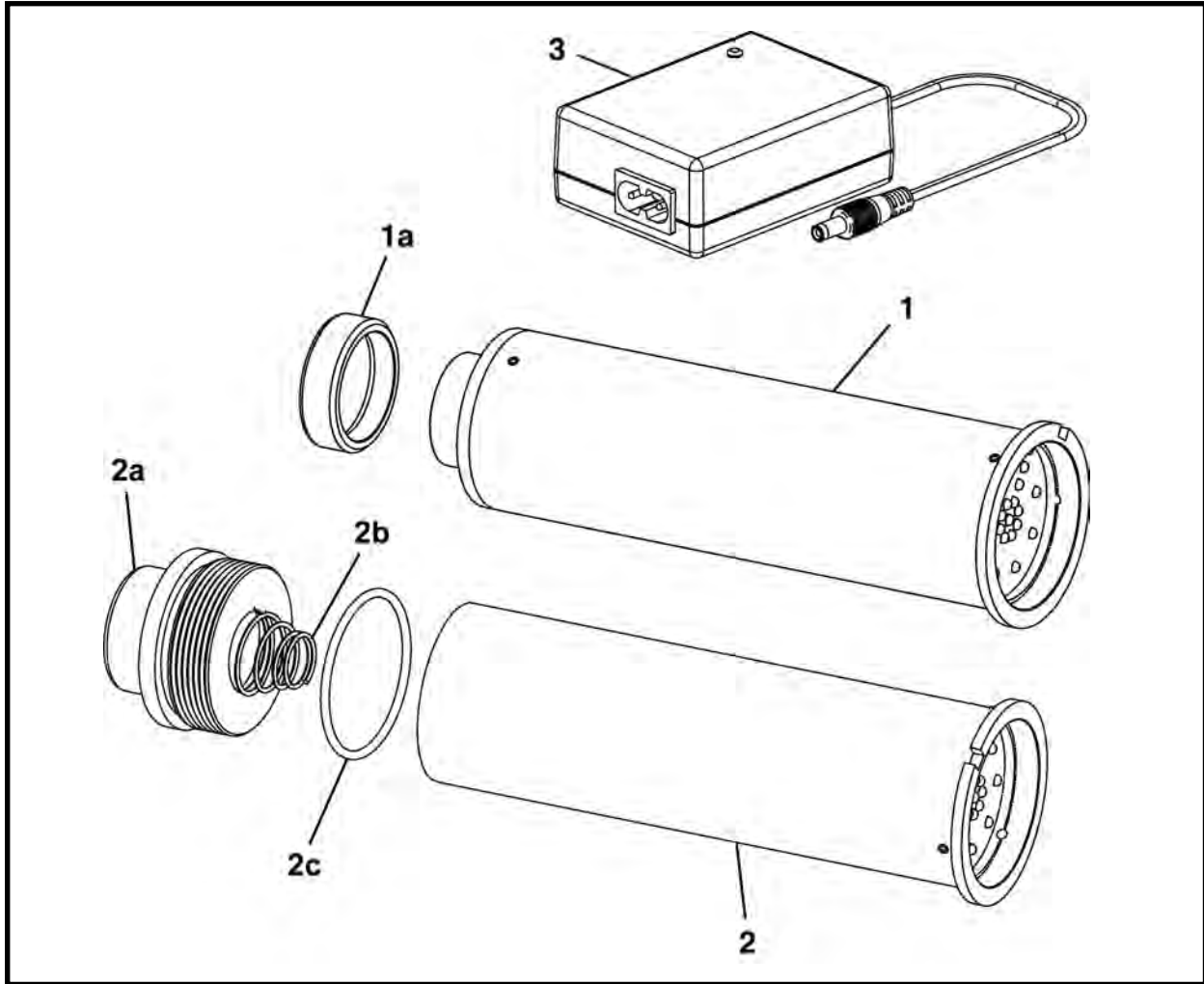
THEODOLITE ASSEMBLY, A42466A
GUIDANCE SYSTEM G3 WITHOUT REMOTE FOCUS (SN FA42035F-86 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A42466A	ASSEMBLY, Theodolite
1	1	P0251-123	THEODOLITE (Includes itemS 1a - 1f)
1a	1	P0251-123B	CASE, Battery
1b	1	P0251-123D	SEAL EYEPiece
1c	1	P0251-123E	LEVEL
1d	1	P0251-123F	DIAGONAL EYEPiece
1e	1	P0251-123L	LCD HOLDER
1f	1	P0251-123M	LATCH, Carrying Case
2	1	A40772P	MOUNT, Camera
3	2	PM3B-.5-10	SCREW, Socket Head Cap SS M3-10
4	1	P0251-123A	EYEPiece 40
5	1	A42022P	RING, Seal
6	1	P0251-147	LENS PEN
7	1	P0251-163	ASSEMBLY, Level
8	1	A42467P	PLATE, Level Mounting
9	2	P0085-006	ORING
10	2	P0017-06-322	SCREW, Slotted Machine 6-32 x .375
11	6	P0064-026	BATTERY, AA Size

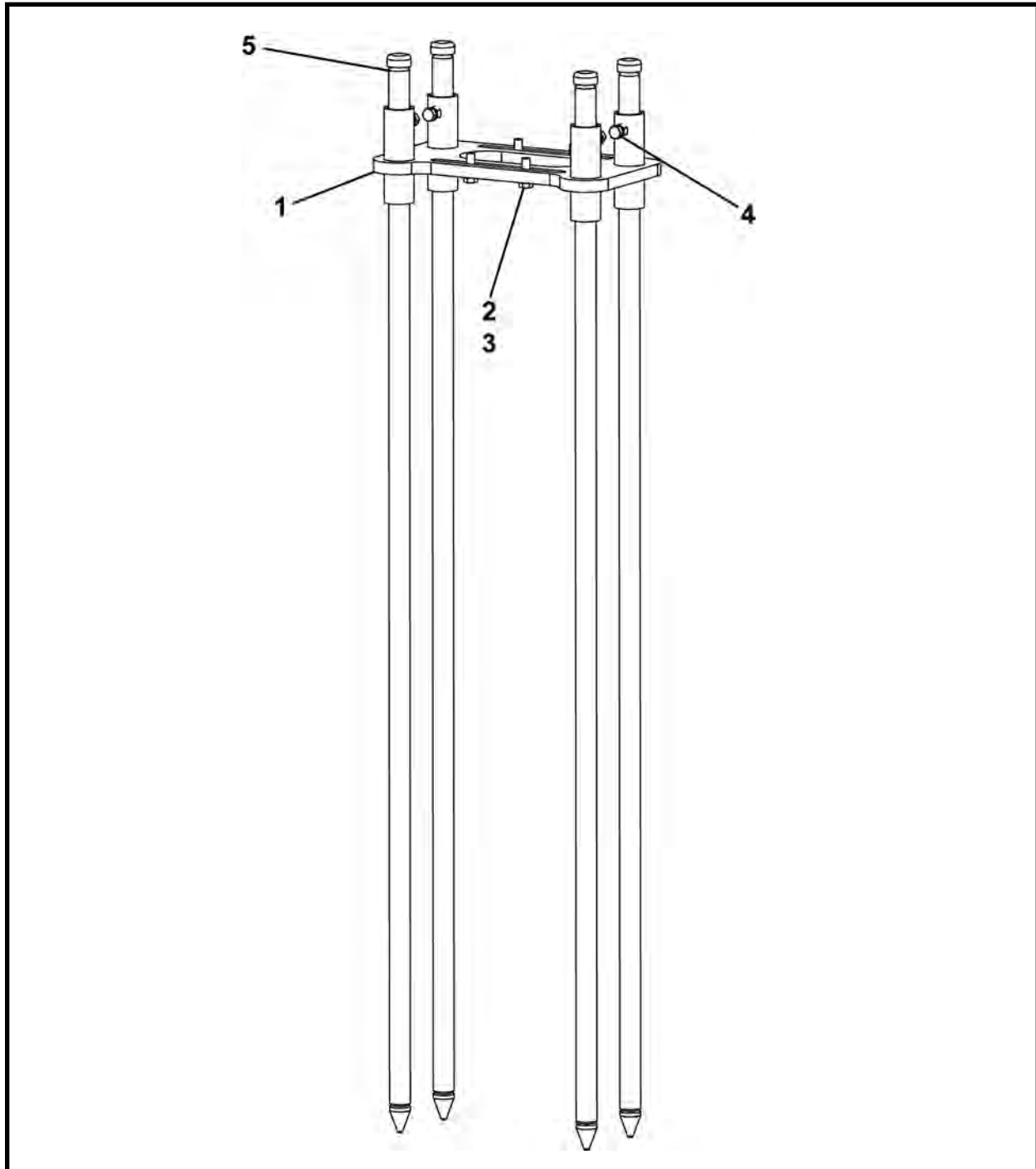
* Includes carrying case.

TARGET & CHARGER GUIDANCE SYSTEM



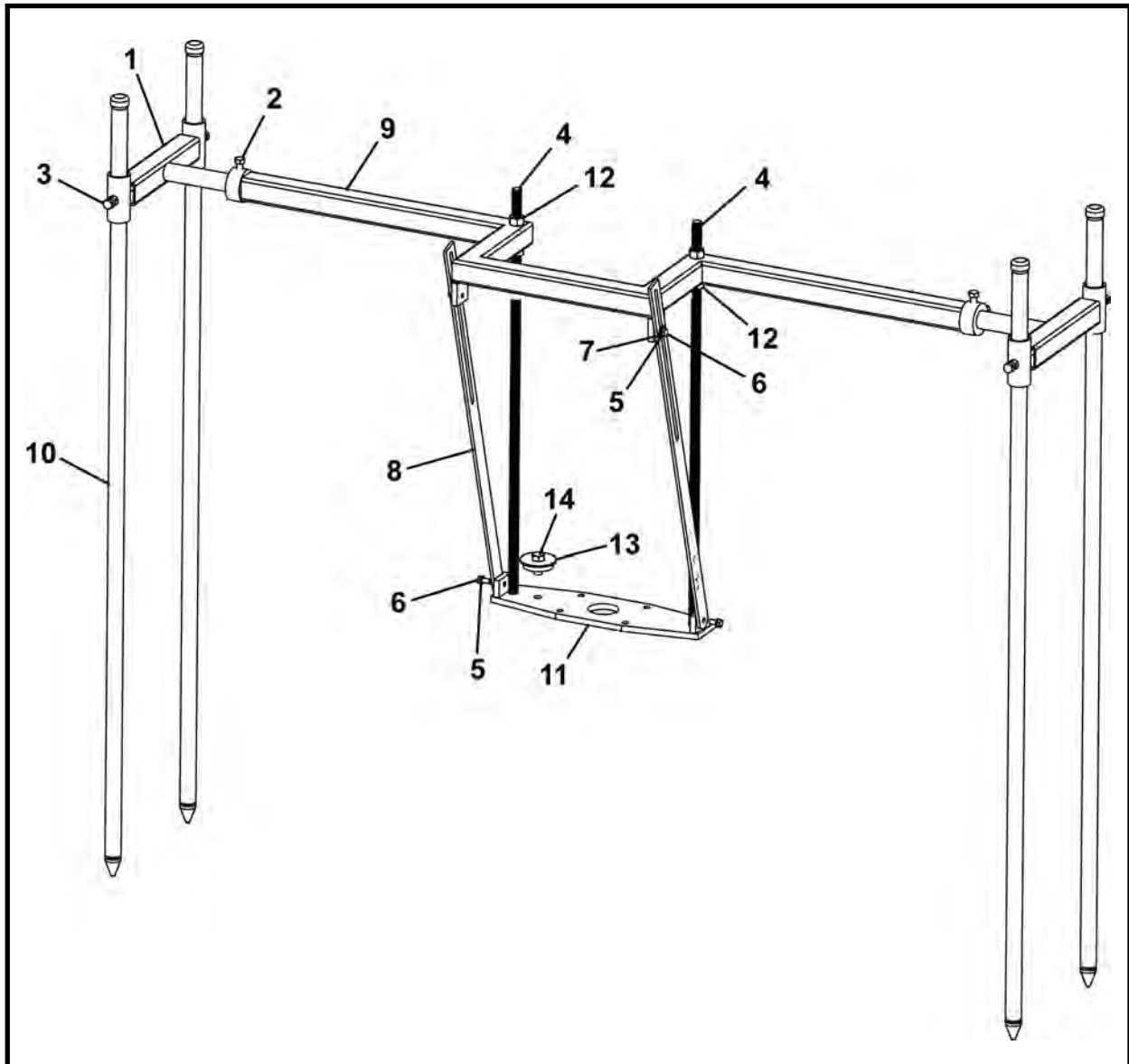
ITEM	QTY	PART NO.	DESCRIPTION
1	1	A40150A	TARGET (Rechargeable) (Includes item 1a)
1a	1	P0100-033	COVER, Receptacle
2	1	A44853A	TARGET (Uses Replaceable D Size Alkaline Batteries) (Includes items 2a - 2c)
2a	1	A44852P	CAP, Battery Target
2b	1	P0070-058	SPRING, Compression
2c	1	P0085-131	ORING
3	1	P0310-707	CHARGER, Smart (Use with A40150A Target)

THEODOLITE SHAFT STAND - LATCHING FRAME, FA40051F
GUIDANCE SYSTEM



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40051F	THEODOLITE SHAFT STAND - Latching Frame
1	1	A40117A	WELDMENT, Mounting Base
2	4	P0001-08-006	BOLT, 1/2 UNC x 1.5
3	4	P0040-008	WASHER, Flat 1/2
4	4	P0001-08-004	BOLT, 1/2 UNC x 1
5	4	A42235A	STAKE

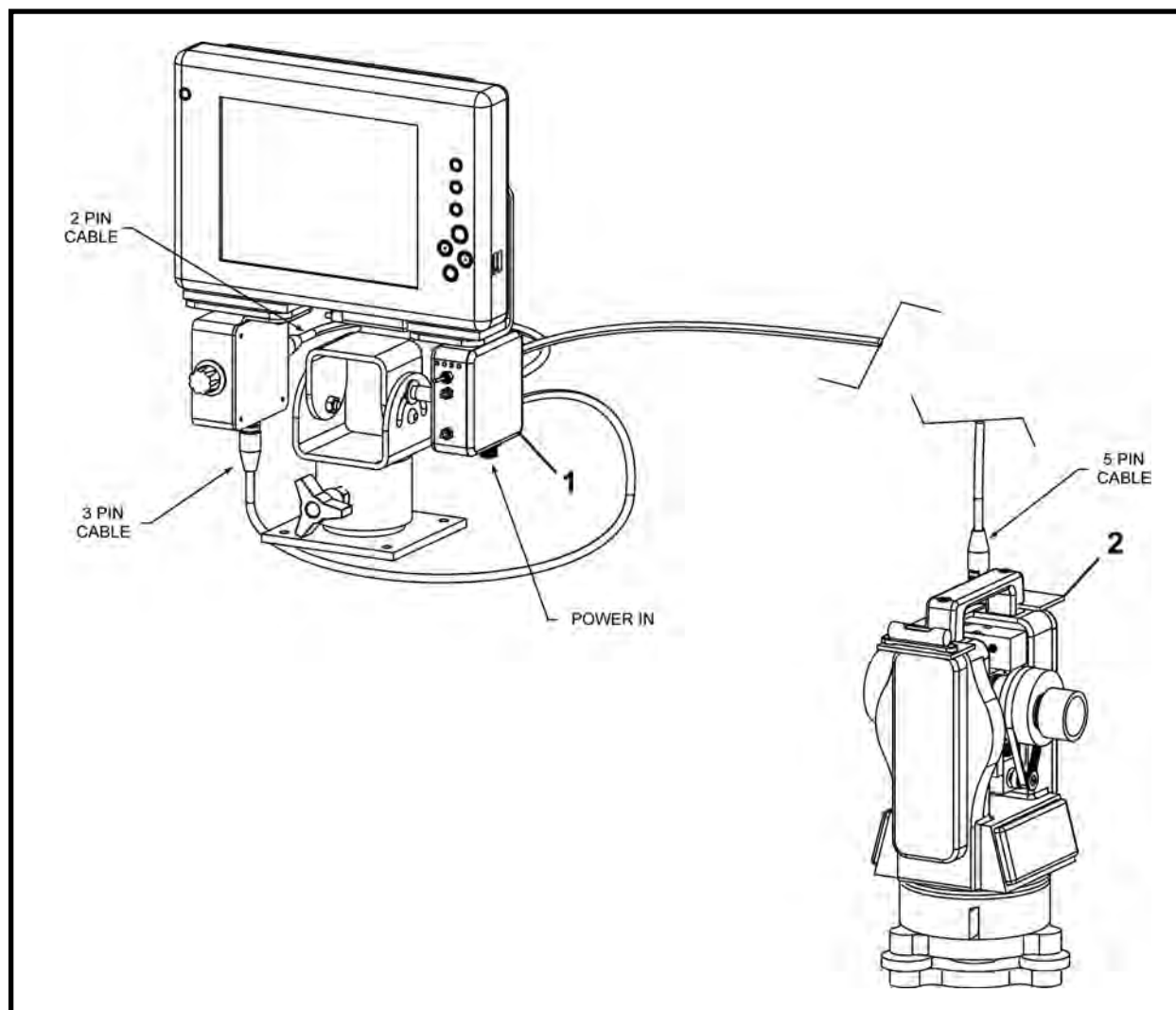
THEODOLITE STAND ASSEMBLY - SINGLE STAGE FRAME, FA42220F
GUIDANCE SYSTEM



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42220F	THEODOLITE STAND ASSEMBLY
1	2	A42222A	STAND, End
2	4	P0001-08-005	BOLT, Hex 1/2-13 x 1.25
3	4	P0001-08-004	BOLT 1/2-13 x 1
4	2	A42232P	ADJUSTMENT, Threaded
5	4	P0045-006	WASHER, Lock 3/8
6	4	P0001-06-003	BOLT, Hex 3/8-16 x .75
7	2	P0040-006	WASHER, Flat 3/8
8	2	A42234P	STIFFENER, Theodolite Pad
9	1	A42221A	STAND, Center
10	4	A42235A	STAKE, Medium
11	1	A42233A	PAD, Theodolite
12	4	P0003-12-000	NUT, 3/4
13*	1	A46819P	BUSHING, Theodolite Mount
14*	1	P0001-10-005	BOLT, Hex 5/8 UNC x 1.25

* Items 13 and 14 are used to attach theodolite when not able to use elevator column assembly.

REMOTE FOCUS ASSEMBLY, FA42096F
GUIDANCE SYSTEM G3 (SN FA42035F-86 & BEFORE)

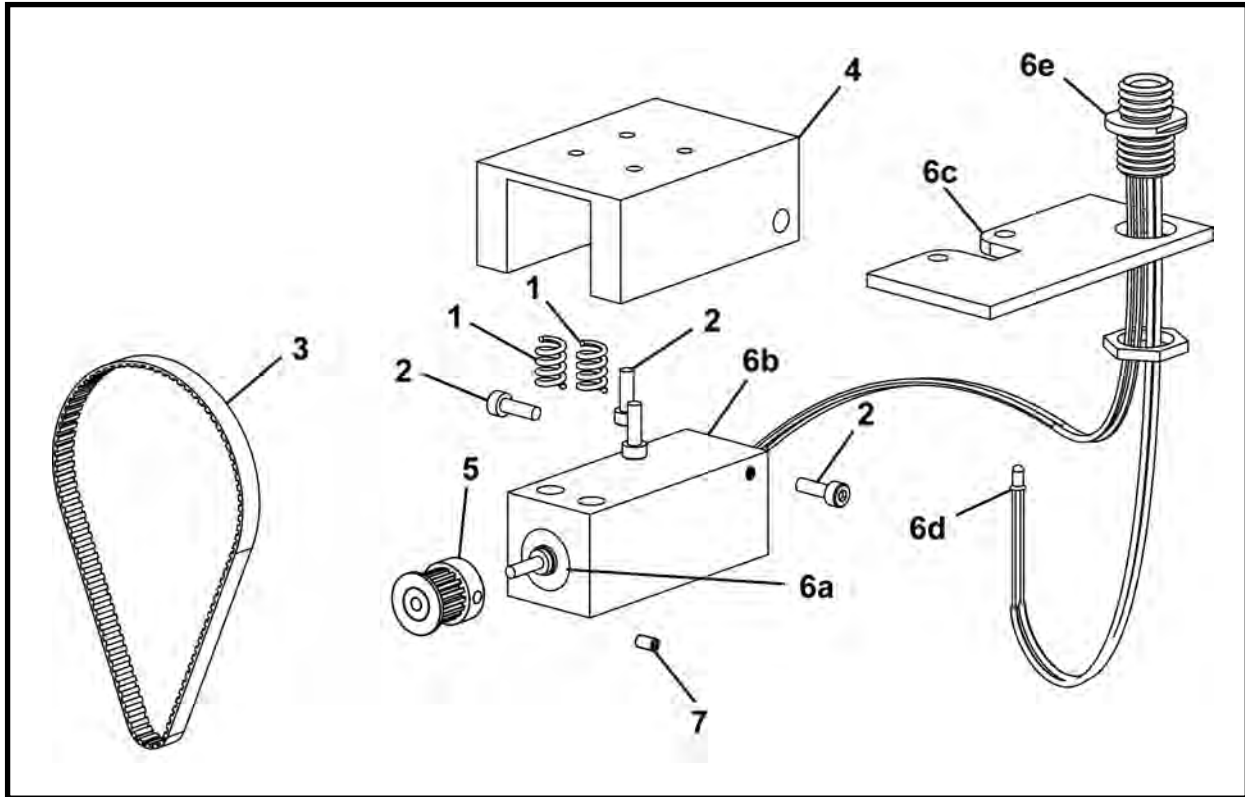


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42096F	REMOTE FOCUS ASSEMBLY
1	1	A42049A	ASSEMBLY, Remote Focus Electrical (Includes items 1a-1b)
1a	1	1250-933	DECAL, Remote Focus
1b	1	050041A	INSTRUCTIONS, Installation
2*	1	A42037A	ASSEMBLY, Motor Drive

*Refer to this section for parts information.

NOTE: This assembly, Remote Focus Assembly, FA42096F, is used to add the remote focus component to your guidance system (SN FA42035F-86 & Before).

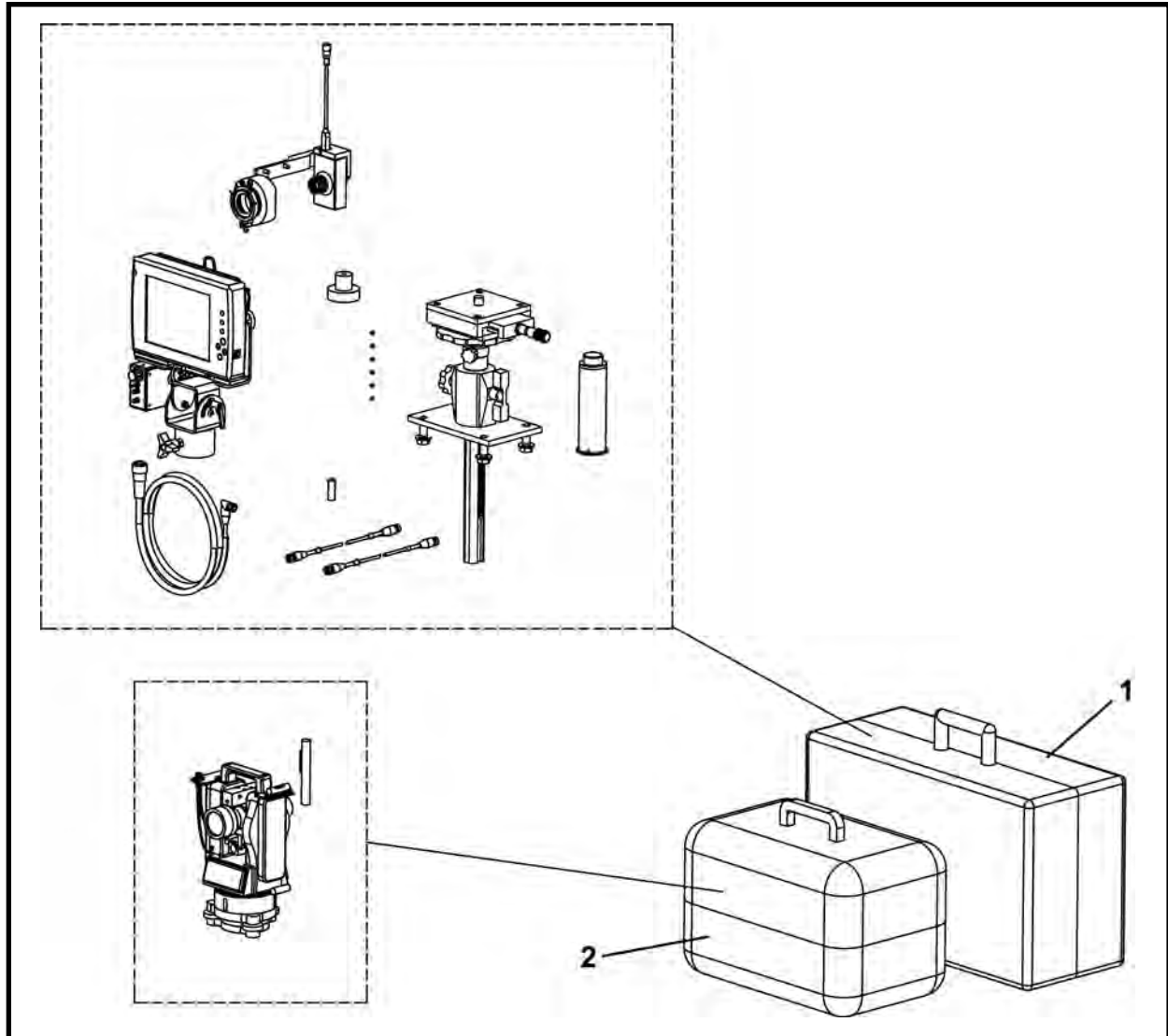
REMOTE FOCUS ASSEMBLY, A42037A
GUIDANCE SYSTEM G3 (SN FA42035F-86 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42037A	REMOTE FOCUS ASSEMBLY
1	2	P0070-034	SPRING
2	4	PM3B-.5-10	SCREW, Socket Head Cap M3-10 SS
3	1	P0067-049	BELT, Timing
4	1	A42039P	HOUSING, Motor Bracket
5	1	P0066-112	PULLEY
6	1	A42097A	ASSEMBLY, Motor - Remote Focus (Includes items 6a - 6f)
6a	1	NSS	MOTOR, Gear
6b	1	NSS	MOTOR, Housing
6c	1	NSS	PLATE, Connector Mounting
6d	1	NSS	LED, Red
6e	1	NSS	CONNECTOR
7	1	P0033-440-03	SCREW, Set

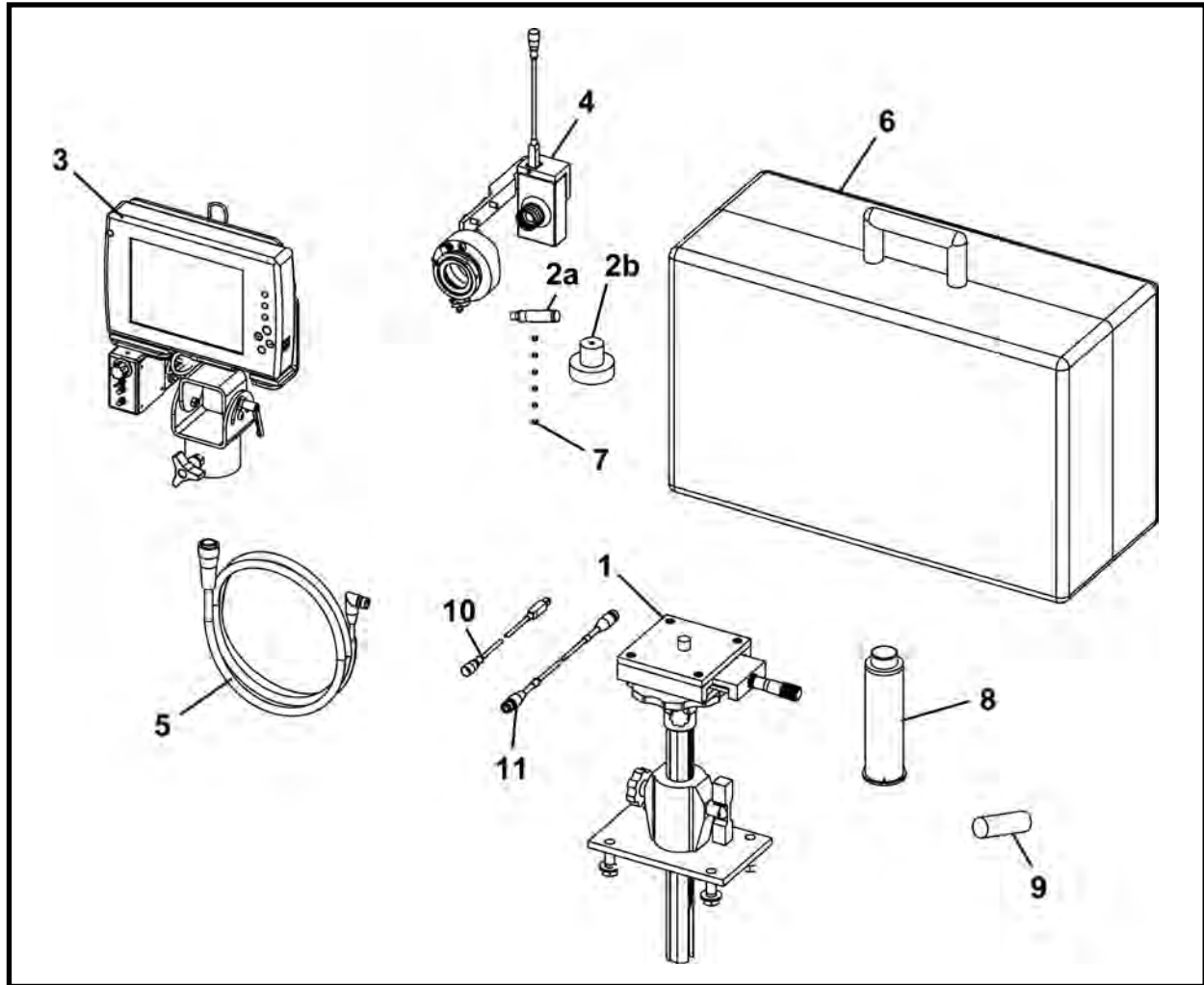
NSS - Not Sold Separately

GUIDANCE SYSTEM ASSEMBLY G3, FA42035F
GUIDANCE SYSTEM G3 (SN FA42035F-87 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42035F	GUIDANCE SYSTEM ASSEMBLY G3
1	1	A42460A	ASSEMBLY, Guidance System Case G3
2	1	A45641A	ASSEMBLY, Theodolite & Remote Focus

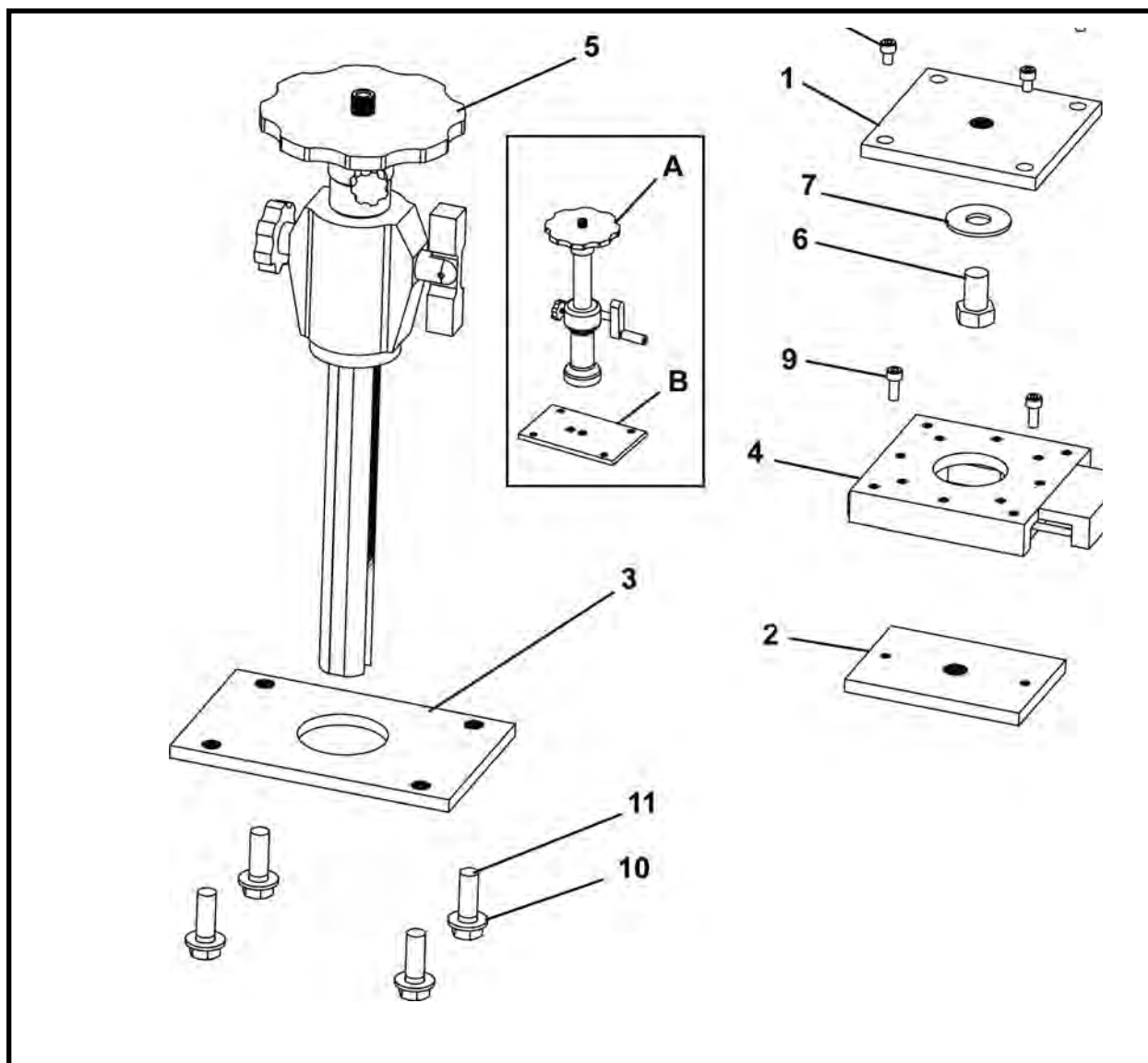
GUIDANCE SYSTEM CASE G3, A42460A
GUIDANCE SYSTEM G3 (SN FA42035F-87 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42460A	GUIDANCE SYSTEM CASE G3
1*	1	A42455A	STAND, Theodolite G3
2	1	A42028A	ASSEMBLY, Laser Sight Alignment Tool (Includes items 2a & 2b)
2a	1	P0251-133	BORESIGHT, Laser
2b	1	A42023P	HOLDER, Boresight Laser
3*	1	A42454A	ASSEMBLY, Tablet PC
4*	1	A42458A	CAMERA OPTICS
5	1	A42456A	ASSEMBLY, GBM Power Cable G3
6	1	P0251-144	CASE, Guidance System
7	6	P0064-020	BATTERY
8*	1	A44853A	TARGET (Uses Replaceable D Size Alkaline Batteries)
9	6	P0064-026	BATTERY, AA Size
10	1	P0054-594	CABLE, Camera
11	1	P0054-345	CABLE, 5 Pin (Remote Focus)

* Refer to this section for parts information.

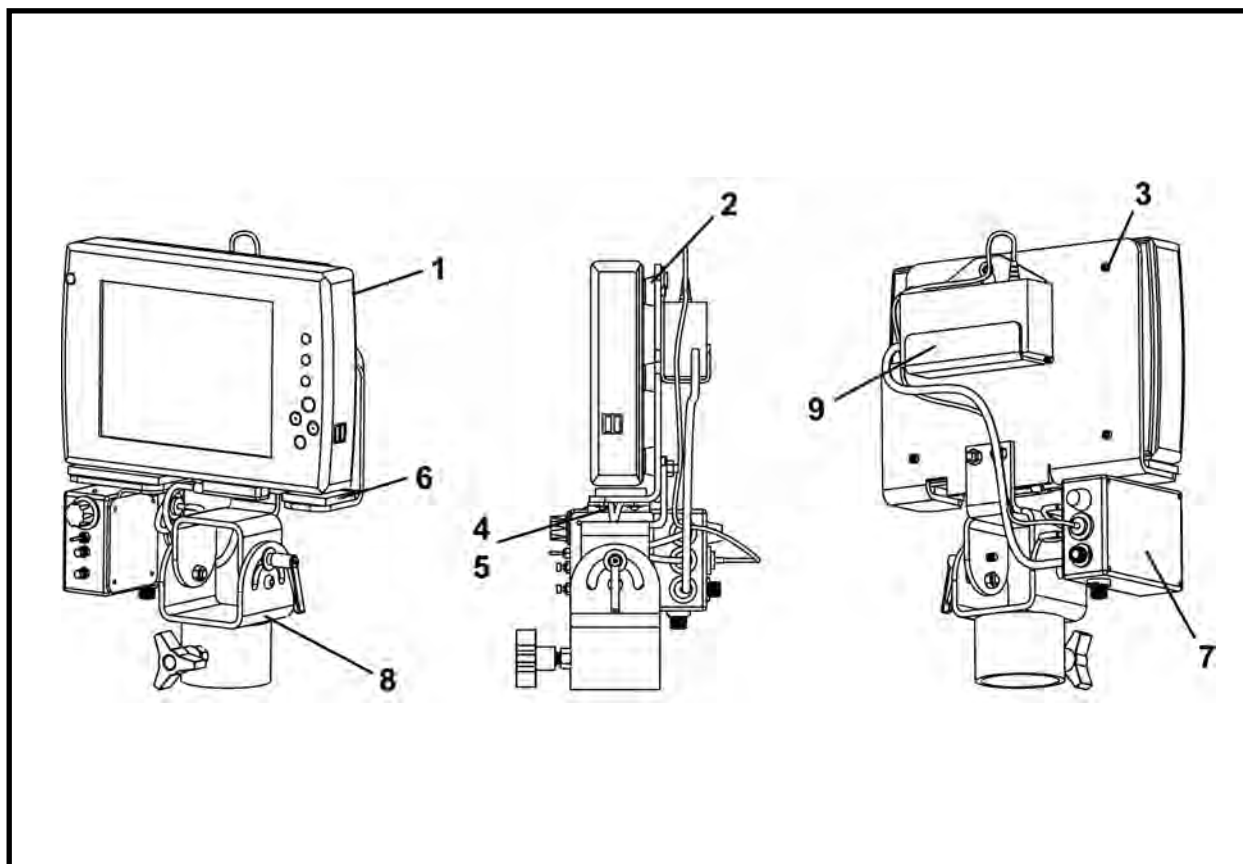
THEODOLITE STAND, A42455A
GUIDANCE SYSTEM G3 (SN FA42035F-95 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42455A	THEODOLITE STAND
1	1	A42010P	PLATE, Upper Adapter
2	1	A42011P	PLATE, Lower Adapter
3*	1	A46385P	PLATE, Mounting
4	1	P0251-129	TRANSLATION STAGE
5*	1	A46386A	COLUMN, Elevator
6	1	P0027-032	BOLT, 5/8-11 UNC X 1
7	1	P0027-046	WASHER, Flat 5/8
8	4	P0031-04-000	SCREW, Socket Head Cap 1/4-20 X 3/8
9	2	P0031-04-001	SCREW, Socket Head Cap 1/4-20 X 5/8
10	4	P0040-008	WASHER, Hardened Flat 1/2
11	4	P0001-08-006	BOLT, 1/2 UNC x 1.50

* Guidance systems SN FA42035F-94 & before were equipped with Elevator Column, P0251-128 (A) and Mounting Plate, A42017P (B). Elevator Column P0251-128 is no longer available and must be replaced with Elevator Column, A46386A (item 5) and Mounting Plate, A46385P (item 3) when part replacement is necessary.

TABLET PC ASSEMBLY, A42454A
GUIDANCE SYSTEM G3 WITH REMOTE FOCUS (SN FA42035F-87 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42454A	TABLET PC ASSEMBLY
1	1	P0251-157	TABLET PC
2	5	P0253-132	BUMPER, Recessed Rubber
3	5	PM04B-0.70-014	SCREW, Slotted Head Cap SS
4	2	P0017-08-323	SCREW, Machine 8-32 x .5
5	2	P0040-001	WASHER
6	5 LI	P0253-018	GASKET, Rubber 1/4
7*	1	A45640A	ASSEMBLY, Power Adapter
8**	1	A42056A	ASSEMBLY, Docking Station
9	1	A42055P	HANGER, Power Adapter
10***	1	P0064-122	BATTERY, Tablet PC

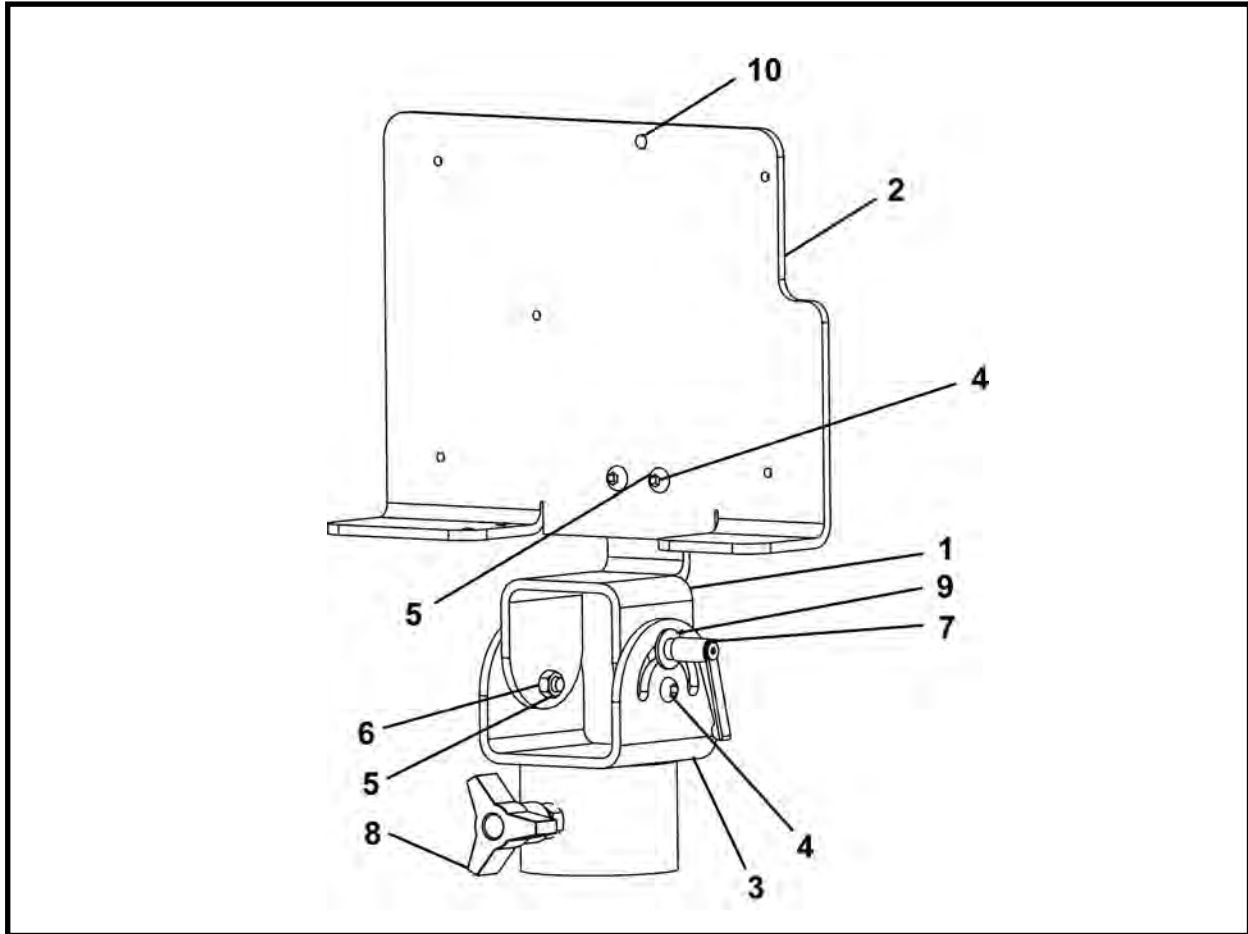
* See Section 5, Electrical, for parts information.

** Refer to this section for parts information.

*** Not Shown

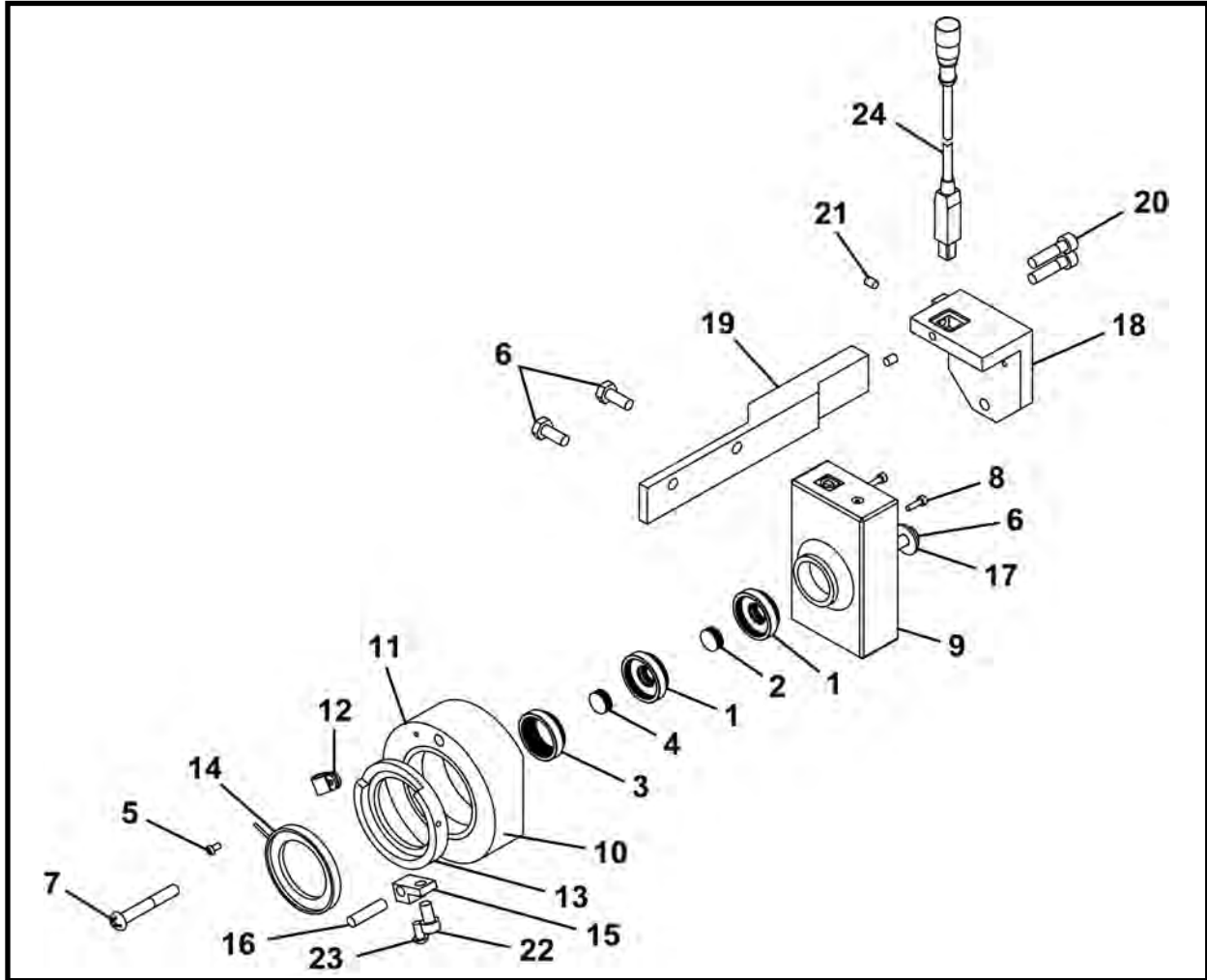
LI - Linear Inch

DOCKING STATION ASSEMBLY, A42056A
GUIDANCE SYSTEM G3



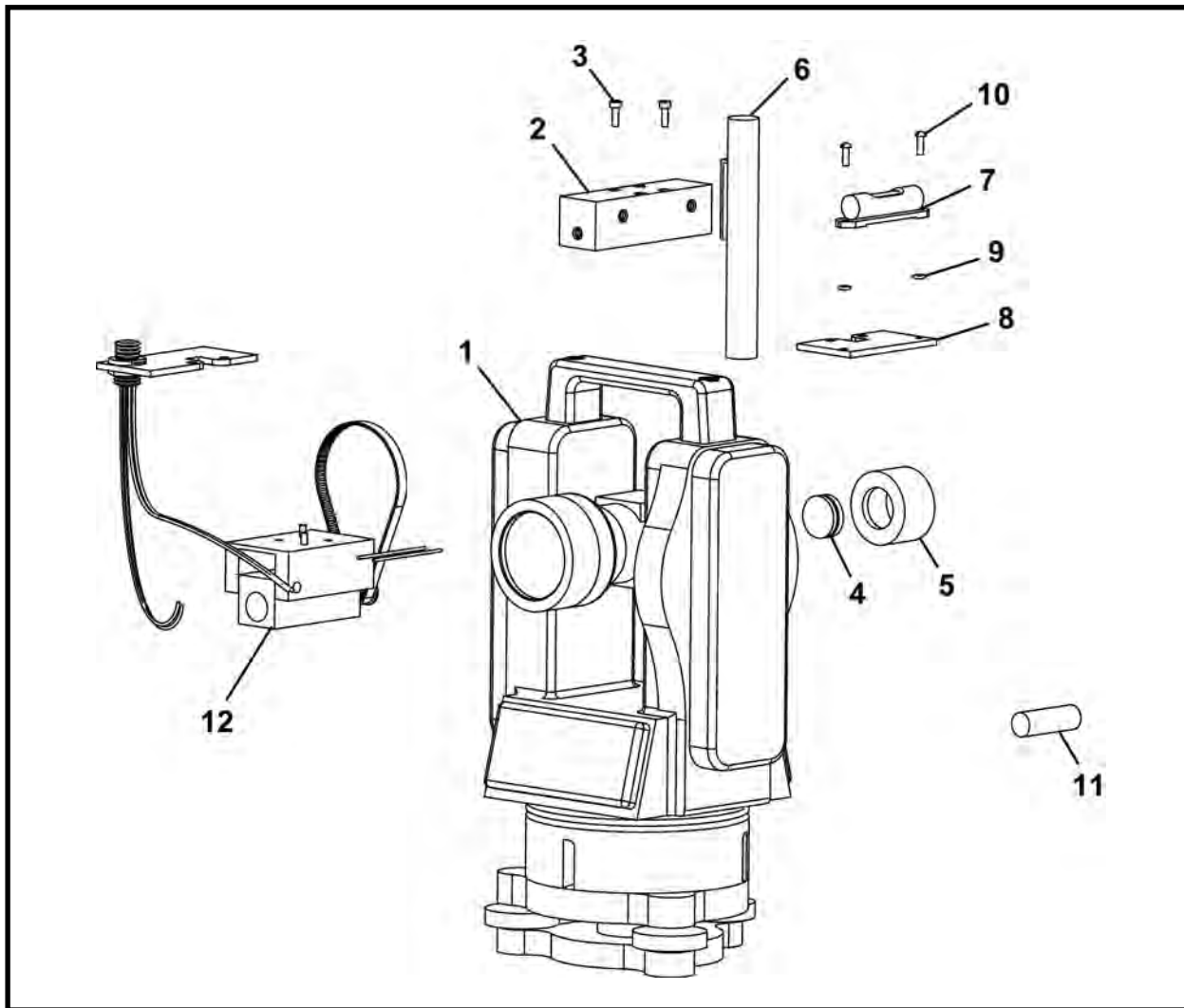
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42056A	ASSEMBLY, Docking Station
1	1	A42051P	MOUNT, Pivot
2	1	A42052P	BACK, Docking Station
3	1	A42053A	MOUNT, Tablet
4	4	P0022-14-204	SCREW, Button Head Socket 1/4-20 x .75
5	4	P0013-04-000	NUT, 1/4
6	3	P0059-064	WASHER, Plastic
7	1	P0059-063	HANDLE, Plastic
8	1	P0059-062	HANDLE, Plastic
9	1	P0040-004	WASHER, Hardened Flat 1/4
10	1	P0030-04-002	SCREW, Flat Head Cap 1/4 UNC x .5

CAMERA OPTICS ASSEMBLY, A42458A
GUIDANCE SYSTEM G3 WITH REMOTE FOCUS (SN FA42035F-87 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42458A	ASSEMBLY, Camera Optics
1	2	P0250-124	MOUNT, Lens
2	1	P0250-125	LENS 36
3	1	P0250-127	TUBE, Extension
4	1	P0250-126	LENS 42
5	1	P0310-431A	SCREW, #6 With Square Washer
6	3	P0001-04-002.5	BOLT, 1/4-20 x 5/8 SS
7	1	P0017-14-208	SCREW, Round Head Machine 1/4 UNC x 1.75 SS
8	2	PM3B-05-10	SCREW, Socket Head Cap, M3-.5 x 10
9	1	P0251-143	CAMERA
10	1	A40773P	COUNTERWEIGHT, Theodolite
11	1 LI	P0253-118	TAPE 1/8 x 1/2
12	1	P0055-122	CLAMP
13	1	P0251-141	MOUNT, Iris
14	1	P0251-142	IRIS
15	1	A42462P	BLOCK, Iris Mount
16	1	A42468P	MOUNT, Iris
17	1	P0040-004	WASHER, Hardened Flat 1/4
18	1	A42464P	PLATE, Camera Mount
19	1	A42465P	ARM, Camera Mount
20	2	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
21	2	P0033-1024-001	SCREW, Set 10-24 x .25
22	1	P0031-04-000	SCREW, Socket Head Cap 1/4 x .38
23	1	P0019-10-323	SCREW, Pan Head #10-32 x .38
24	1	P0054-488	CABLE

THEODOLITE & REMOTE FOCUS ASSEMBLY, A45641A
GUIDANCE SYSTEM G3 WITH REMOTE FOCUS (SN FA42035F-87 & AFTER)

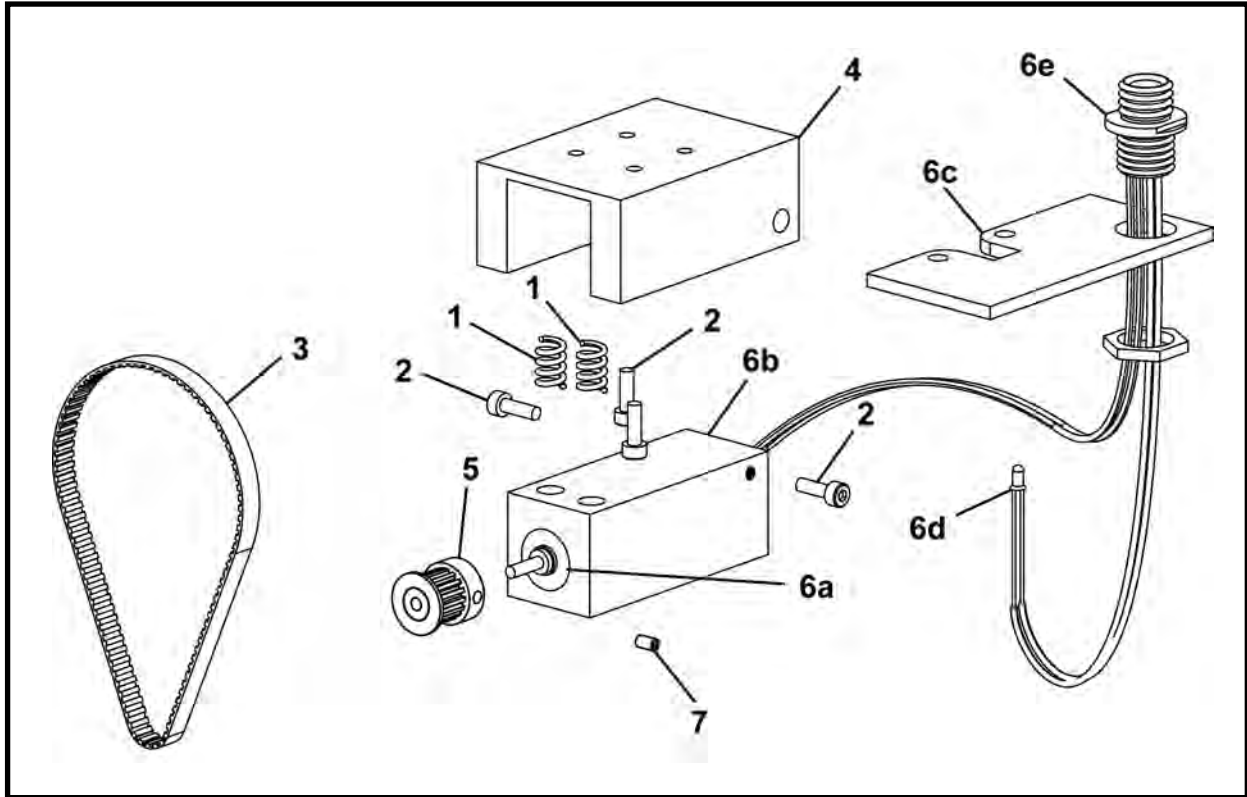


ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A45641A	ASSEMBLY, Theodolite & Remote Focus
1	1	P0251-123	THEODOLITE (Includes items 1a - 1f)
1a	1	P0251-123B	CASE, Battery
1b	1	P0251-123D	SEAL EYEPIECE
1c	1	P0251-123E	LEVEL
1d	1	P0251-123F	DIAGONAL EYEPIECE
1e	1	P0251-123L	LCD HOLDER
1f	1	P0251-123M	LATCH, Carrying Case
2	1	A40772P	MOUNT, Camera
3	2	PM3B-.5-10	SCREW, Socket Head Cap SS M3-10
4	1	P0251-123A	EYEPIECE 40
5	1	A42022P	RING, Seal
6	1	P0251-147	LENS PEN
7	1	P0251-163	ASSEMBLY, Level
8	1	A42467P	PLATE, Level Mounting
9	2	P0085-006	ORING
10	2	P0017-06-322	SCREW, Slotted Machine 6-32 x .375
11	6	P0064-026	BATTERY, AA Size
12**	1	A42037A	ASSEMBLY, Motor Drive

* Includes carrying case.

** Refer to this section for parts information.

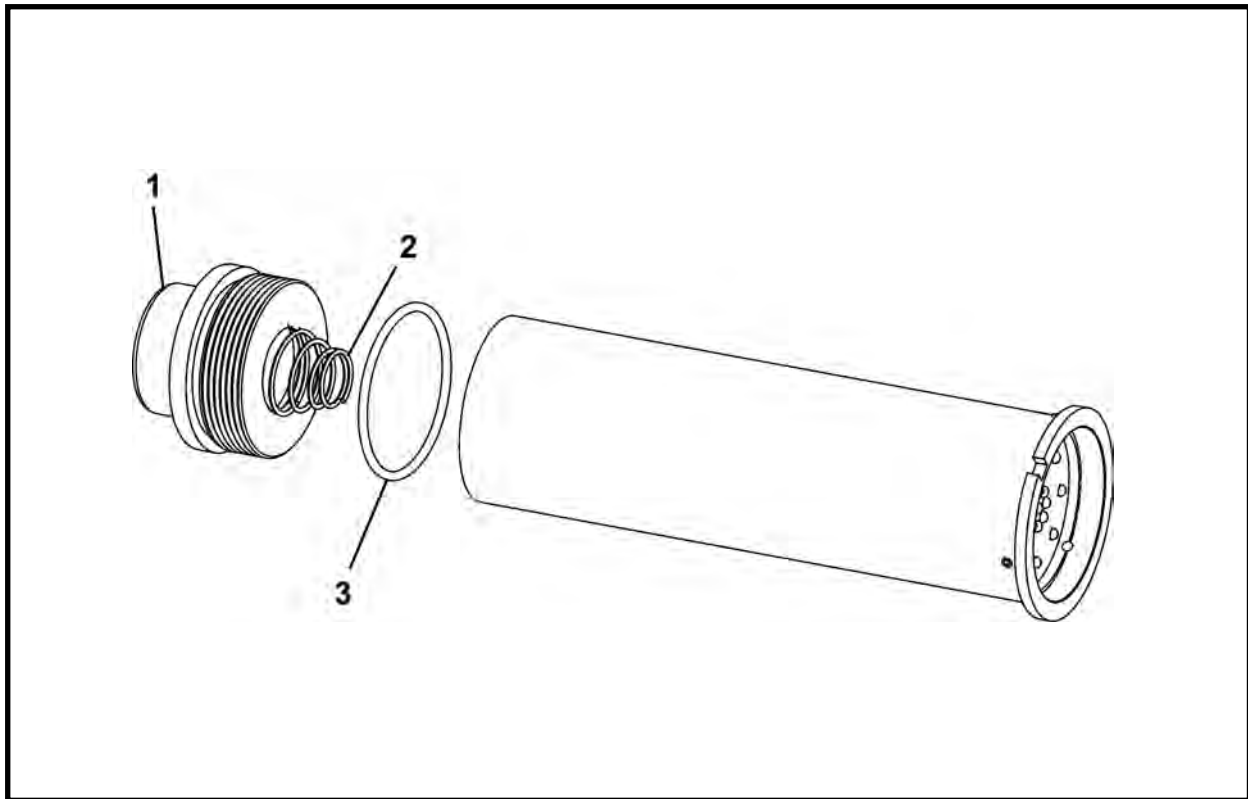
MOTOR DRIVE ASSEMBLY, A42037A
GUIDANCE SYSTEM G3 WITH REMOTE FOCUS (SN FA42035F-87 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42037A	MOTOR DRIVE ASSEMBLY
1	2	P0070-034	SPRING
2	4	PM3B-.5-10	SCREW, Socket Head Cap M3-10 SS
3	1	P0067-049	BELT, Timing
4	1	A42039P	HOUSING, Motor Bracket
5	1	P0066-112	PULLEY
6	1	A42097A	ASSEMBLY, Motor - Remote Focus (Includes items 6a - 6f)
6a	1	NSS	MOTOR, Gear
6b	1	NSS	MOTOR, Housing
6c	1	NSS	PLATE, Connector Mounting
6d	1	NSS	LED, Red
6e	1	NSS	CONNECTOR
7	1	P0033-440-03	SCREW, Set

NSS - Not Sold Separately

TARGET, A44853A
GUIDANCE SYSTEM

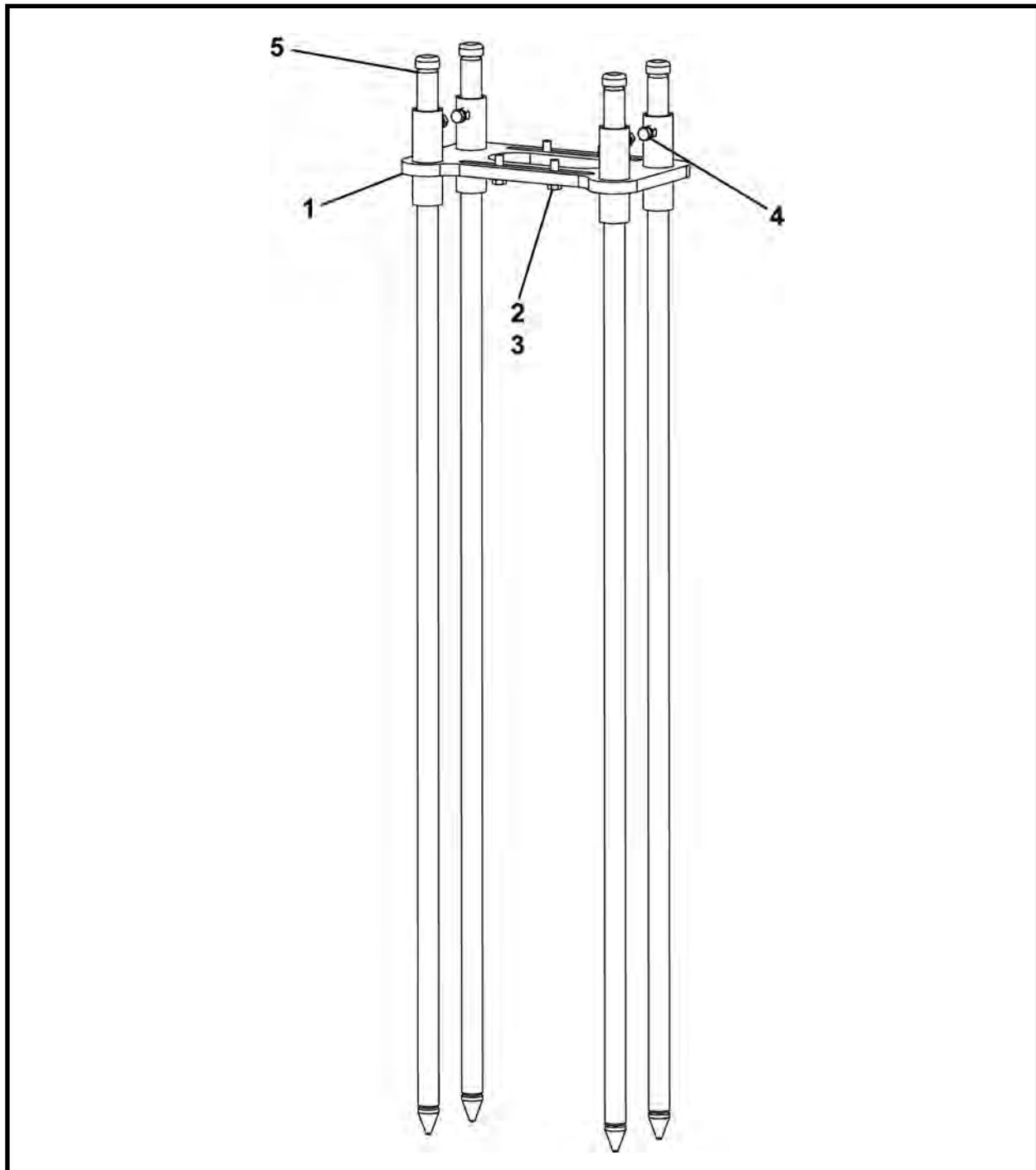


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44853A	TARGET (Uses Replaceable D Size Alkaline Batteries)
1	1	A44852P	CAP, Battery Target
2	1	P0070-058	SPRING. Compression
3	1	P0085-131	ORING
4*	3	P0033-440-03	SCREW, Set

* Not Shown

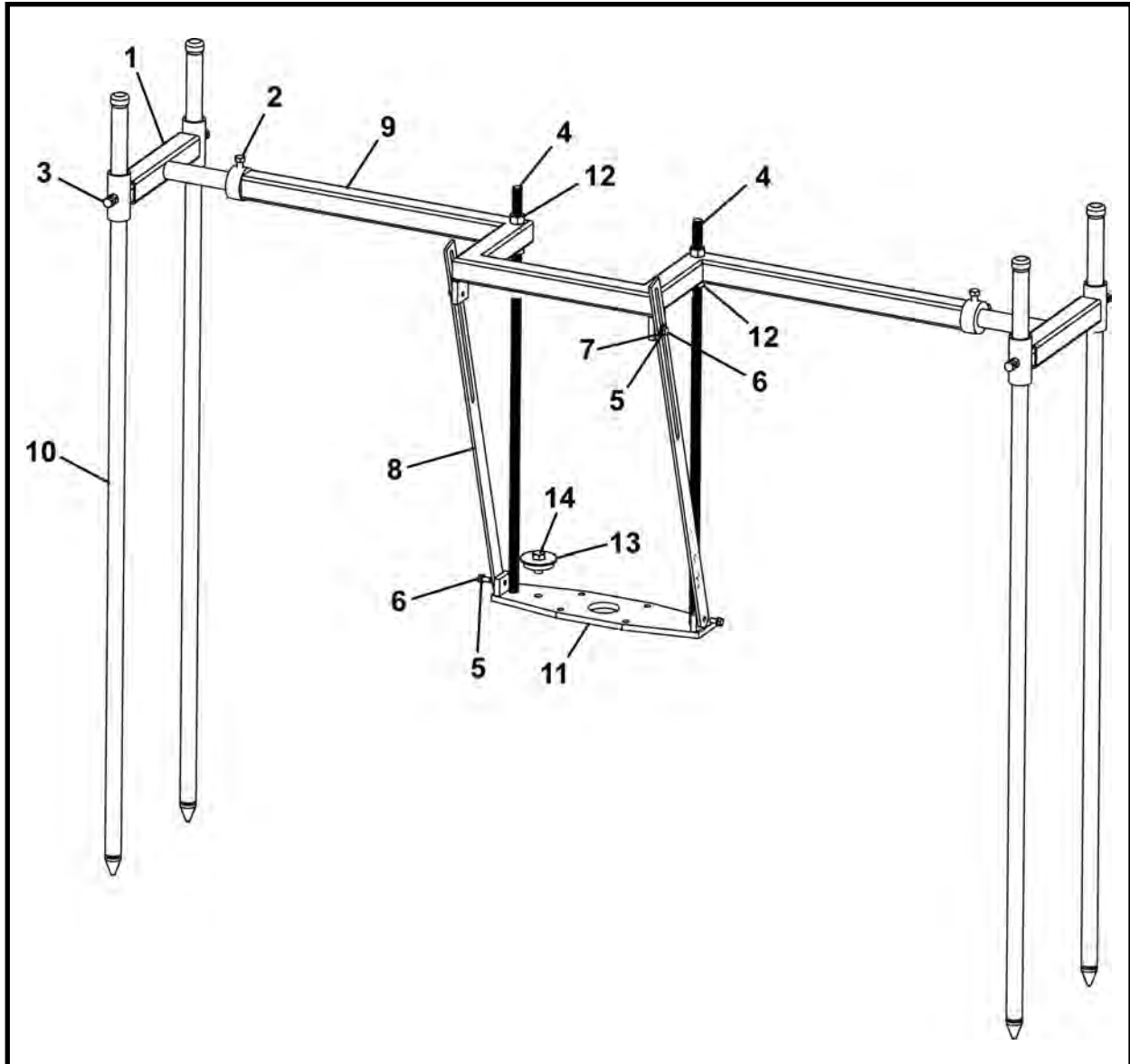
NOTES

THEODOLITE SHAFT STAND - LATCHING FRAME, FA40051F
GUIDANCE SYSTEM



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40051F	THEODOLITE SHAFT STAND - Latching Frame
1	1	A40117A	WELDMENT, Mounting Base
2	4	P0001-08-006	BOLT, 1/2 UNC x 1.5
3	4	P0040-008	WASHER, Flat 1/2
4	4	P0001-08-004	BOLT, 1/2 UNC x 1
5	4	A42235A	STAKE

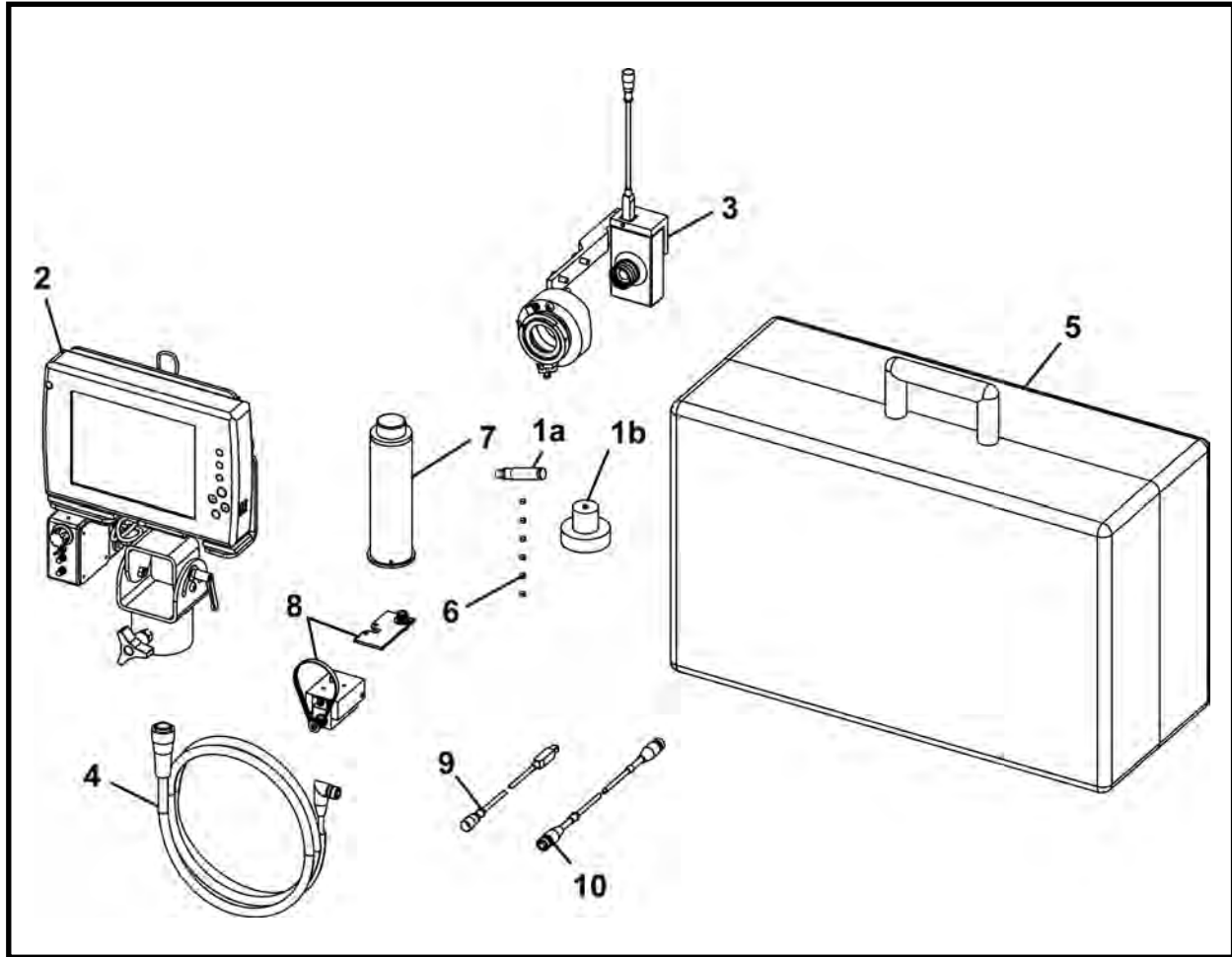
THEODOLITE STAND ASSEMBLY - SINGLE STAGE FRAME, FA42220F
GUIDANCE SYSTEM



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42220F	THEODOLITE STAND ASSEMBLY
1	2	A42222A	STAND, End
2	4	P0001-08-005	BOLT, Hex 1/2-13 x 1.25
3	4	P0001-08-004	BOLT 1/2-13 x 1
4	2	A42232P	ADJUSTMENT, Threaded
5	4	P0045-006	WASHER, Lock 3/8
6	4	P0001-06-003	BOLT, Hex 3/8-16 x .75
7	2	P0040-006	WASHER, Flat 3/8
8	2	A42234P	STIFFENER, Theodolite Pad
9	1	A42221A	STAND, Center
10	4	A42235A	STAKE, Medium
11	1	A42233A	PAD, Theodolite
12	4	P0003-12-000	NUT, 3/4
13*	1	A46819P	BUSHING, Theodolite Mount
14*	1	P0001-10-005	BOLT, Hex 5/8 UNC x 1.25

* Items 13 and 14 are used to attach theodolite when not able to use elevator column assembly.

GUIDANCE SYSTEM G2 TO G3 CONVERSION KIT, FA42036F
REPLACES GUIDANCE SYSTEM G2 (SN A42000-17 & BEFORE)

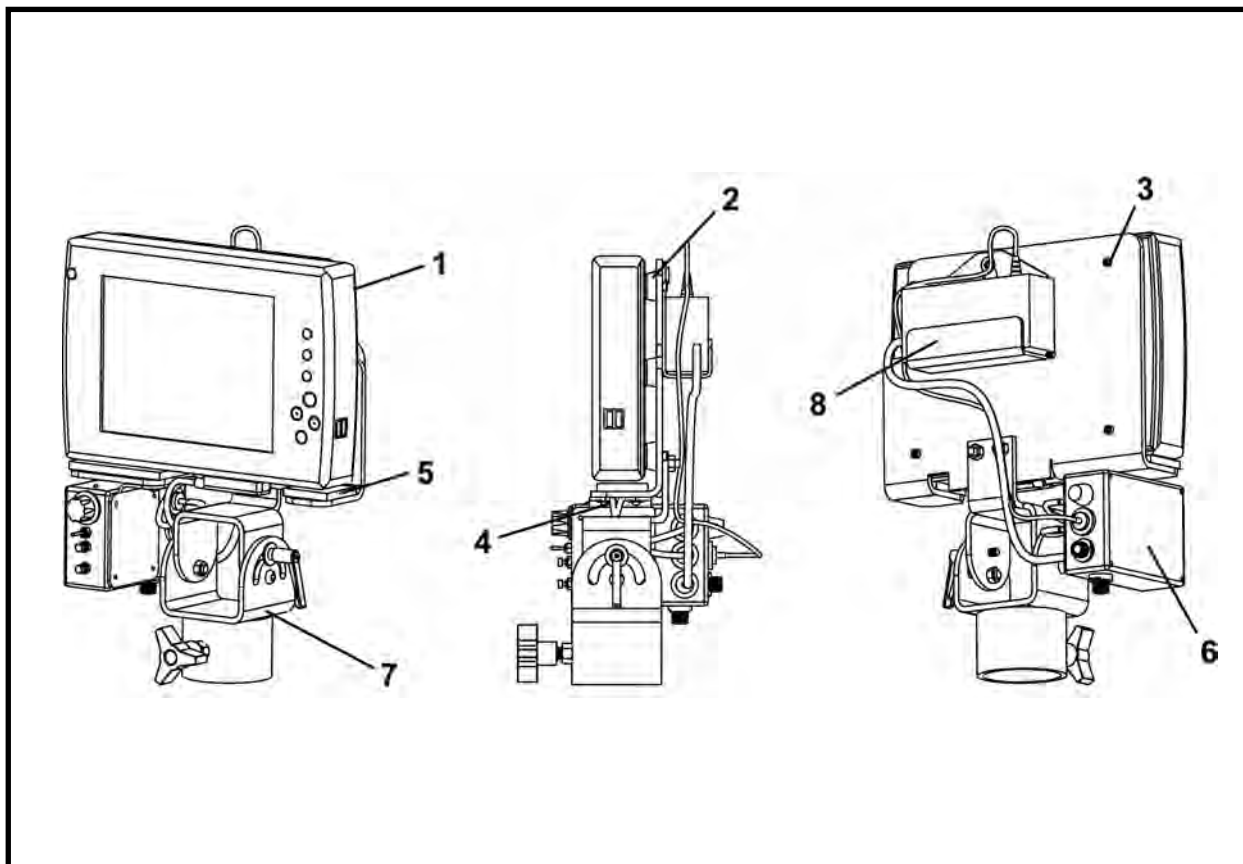


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42036F	GUIDANCE SYSTEM CASE G3
1	1	A42028A	ASSEMBLY, Laser Sight Alignment Tool (Includes items 2a & 2b)
1a	1	P0251-133	BORESIGHT, Laser
1b	1	A42023P	HOLDER, Boresight Laser
2*	1	A42454A	ASSEMBLY, Tablet PC
3*	1	A42458A	CAMERA OPTICS
4	1	A42456A	ASSEMBLY, GBM Power Cable G3
5	1	P0251-144	CASE, Guidance System
6	6	P0064-020	BATTERY
7*	1	A44853A	TARGET (Uses Replaceable D Size Alkaline Batteries)
8*	1	A42037A	ASSEMBLY, Motor Drive
9	1	P0054-594	CABLE, Camera
10	1	P0054-345	CABLE, 5 Pin

NOTE: Use this Guidance System G3 Conversion Kit, FA42036F to replace your SN A42000 guidance system components less theodolite.

* Refer to this section for parts information.

TABLET PC ASSEMBLY, A42454A
REPLACES GUIDANCE SYSTEM G2 (SN A42000-17 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42454A	TABLET PC ASSEMBLY
1	1	P0251-157	TABLET PC
2	5	P0253-132	BUMPER, Recessed Rubber
3	5	PM04C-0.70-014	SCREW, Slotted Pan Head SS
4	2	P0017-08-323	SCREW, Machine 8-32 x .5
5	5 LI	P0253-018	GASKET, Rubber 1/4
6*	1	A45640A	ASSEMBLY, Power Adapter
7**	1	A42056A	ASSEMBLY, Docking Station
8	1	A42055P	HANGER, Power Adapter
9***	1	P0064-122	BATTERY, Tablet PC

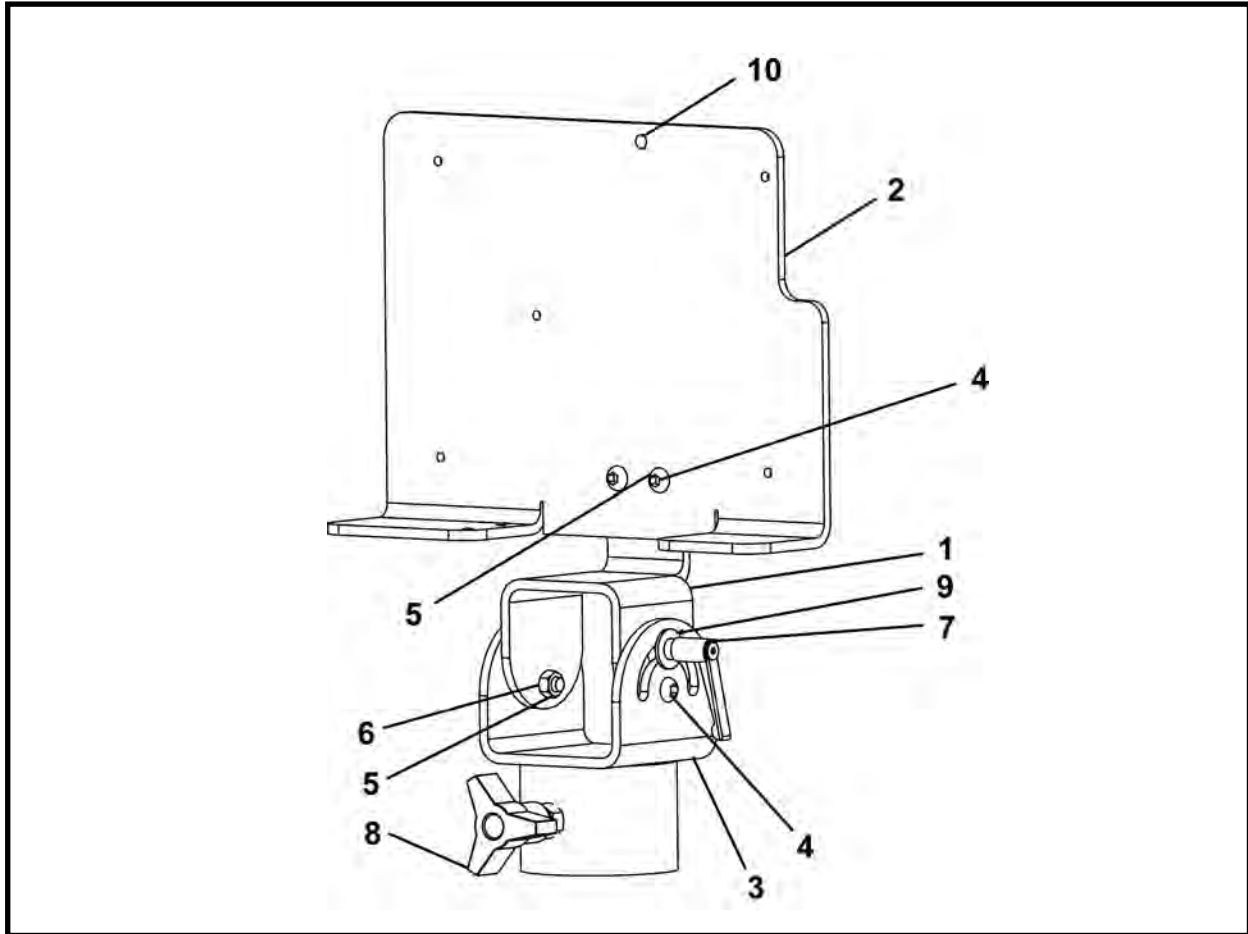
* See Section 5, Electrical, for parts information.

** Refer to this section for parts information.

*** Not Shown

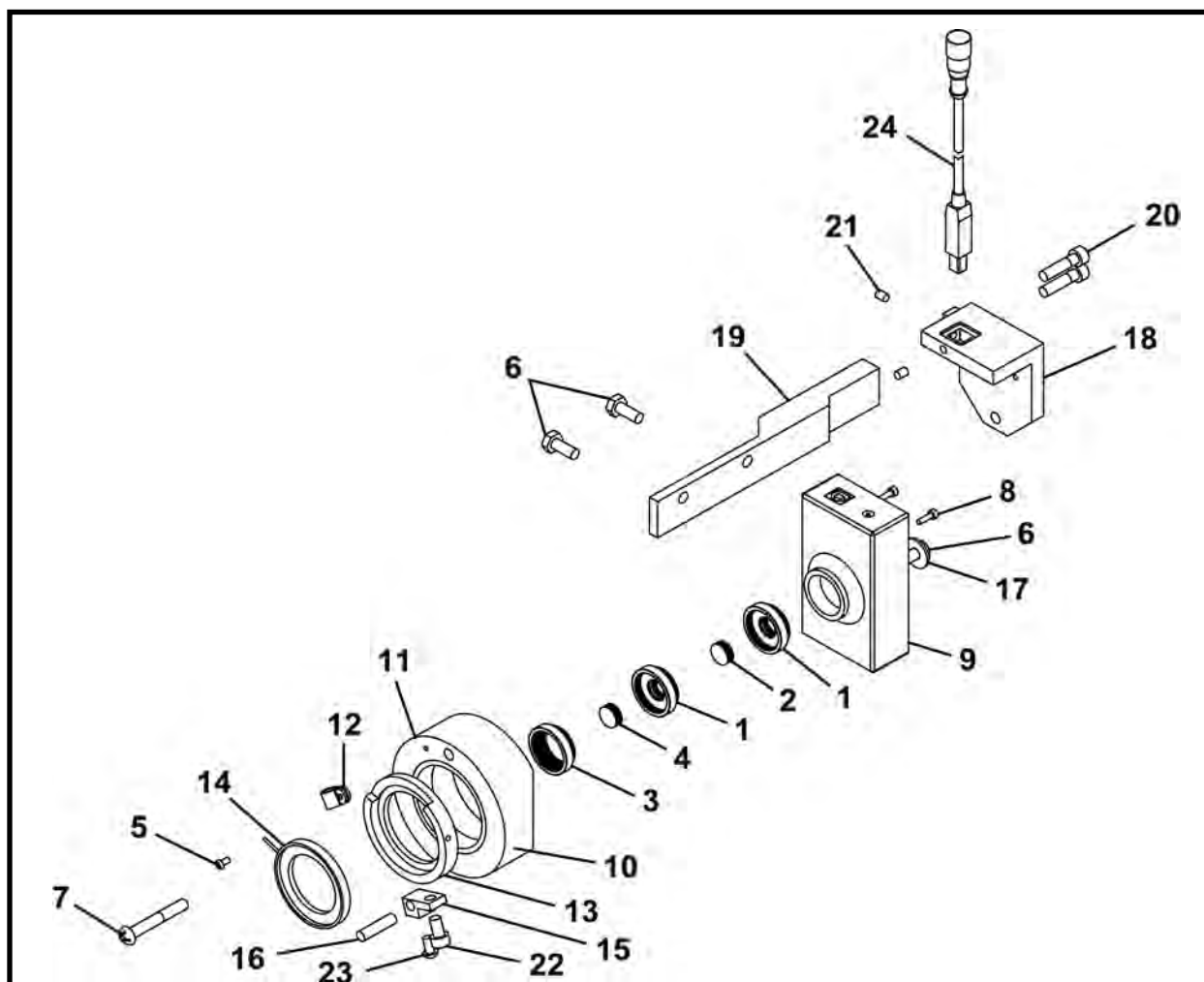
LI - Linear Inch

DOCKING STATION ASSEMBLY, A42056A
GUIDANCE SYSTEM G3



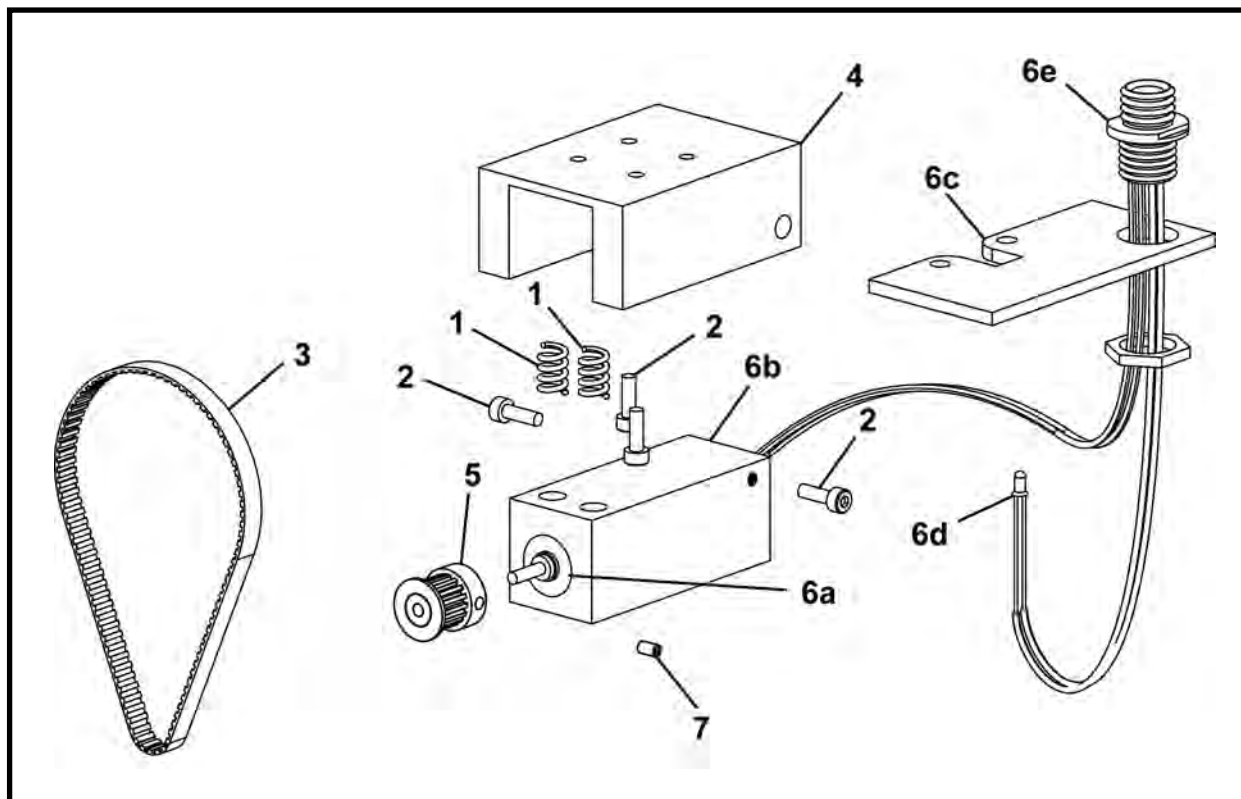
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42056A	ASSEMBLY, Docking Station
1	1	A42051P	MOUNT, Pivot
2	1	A42052P	BACK, Docking Station
3	1	A42053A	MOUNT, Tablet
4	4	P0022-14-204	SCREW, Button Head Socket 1/4-20 x .75
5	4	P0013-04-000	NUT, 1/4
6	3	P0059-064	WASHER, Plastic
7	1	P0059-063	HANDLE, Plastic
8	1	P0059-062	HANDLE, Plastic
9	1	P0040-004	WASHER, Hardened Flat 1/4
10	1	P0030-04-002	SCREW, Flat Head Cap 1/4 UNC x .5

CAMERA OPTICS ASSEMBLY, A42458A
REPLACES GUIDANCE SYSTEM G2 (SN A42000-17 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42458A	ASSEMBLY, Camera Optics
1	2	P0250-124	MOUNT, Lens
2	1	P0250-125	LENS 36
3	1	P0250-127	TUBE, Extension
4	1	P0250-126	LENS 42
5	1	P0310-431A	SCREW, #6 With Square Washer
6	3	P0001-04-002.5	BOLT, 1/4-20 x 5/8 SS
7	1	P0017-14-208	SCREW, Round Head Machine 1/4 UNC x 1.75 SS
8	2	PM3B-05-10	SCREW, Socket Head Cap, M3-.5 x 10
9	1	P0251-143	CAMERA
10	1	A40773P	COUNTERWEIGHT, Theodolite
11	1 LI	P0253-118	TAPE 1/8 x 1/2
12	1	P0055-122	CLAMP
13	1	P0251-141	MOUNT, Iris
14	1	P0251-142	IRIS
15	1	A42462P	BLOCK, Iris Mount
16	1	A42468P	MOUNT, Iris
17	1	P0040-004	WASHER, Hardened Flat 1/4
18	1	A42464P	PLATE, Camera Mount
19	1	A42465P	ARM, Camera Mount
20	2	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
21	2	P0033-1024-001	SCREW, Set 10-24 x .25
22	1	P0031-04-000	SCREW, Socket Head Cap 1/4 x .38
23	1	P0019-10-323	SCREW, Pan Head #10-32 x .38
24	1	P0054-488	CABLE

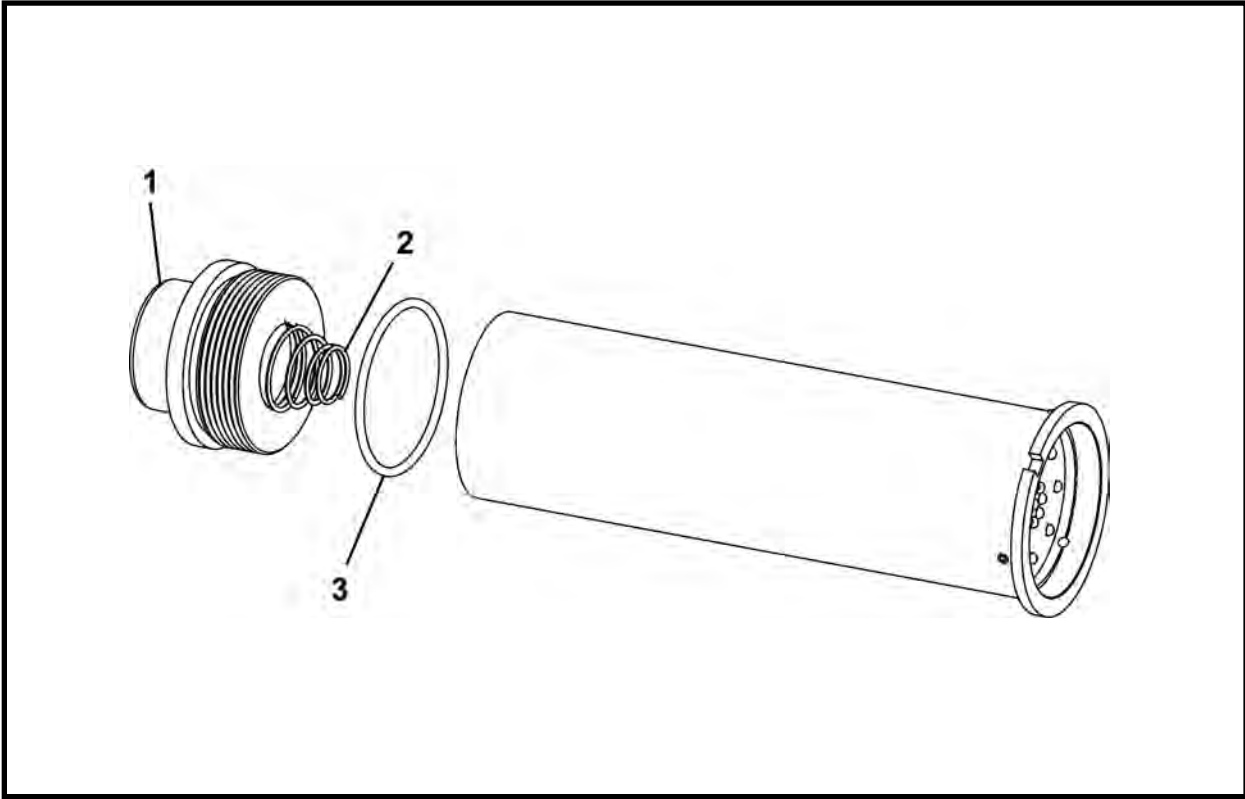
MOTOR DRIVE ASSEMBLY, A42037A
REPLACES GUIDANCE SYSTEM G2 (SN A42000-17 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42037A	MOTOR DRIVE ASSEMBLY
1	2	P0070-034	SPRING
2	4	PM3B-.5-10	SCREW, Socket Head Cap M3-10 SS
3	1	P0067-049	BELT, Timing
4	1	A42039P	HOUSING, Motor Bracket
5	1	P0066-112	PULLEY
6	1	A42097A	ASSEMBLY, Motor - Remote Focus (Includes items 6a - 6f)
6a	1	NSS	MOTOR, Gear
6b	1	NSS	MOTOR, Housing
6c	1	NSS	PLATE, Connector Mounting
6d	1	NSS	LED, Red
6e	1	NSS	CONNECTOR
7	1	P0033-440-03	SCREW, Set

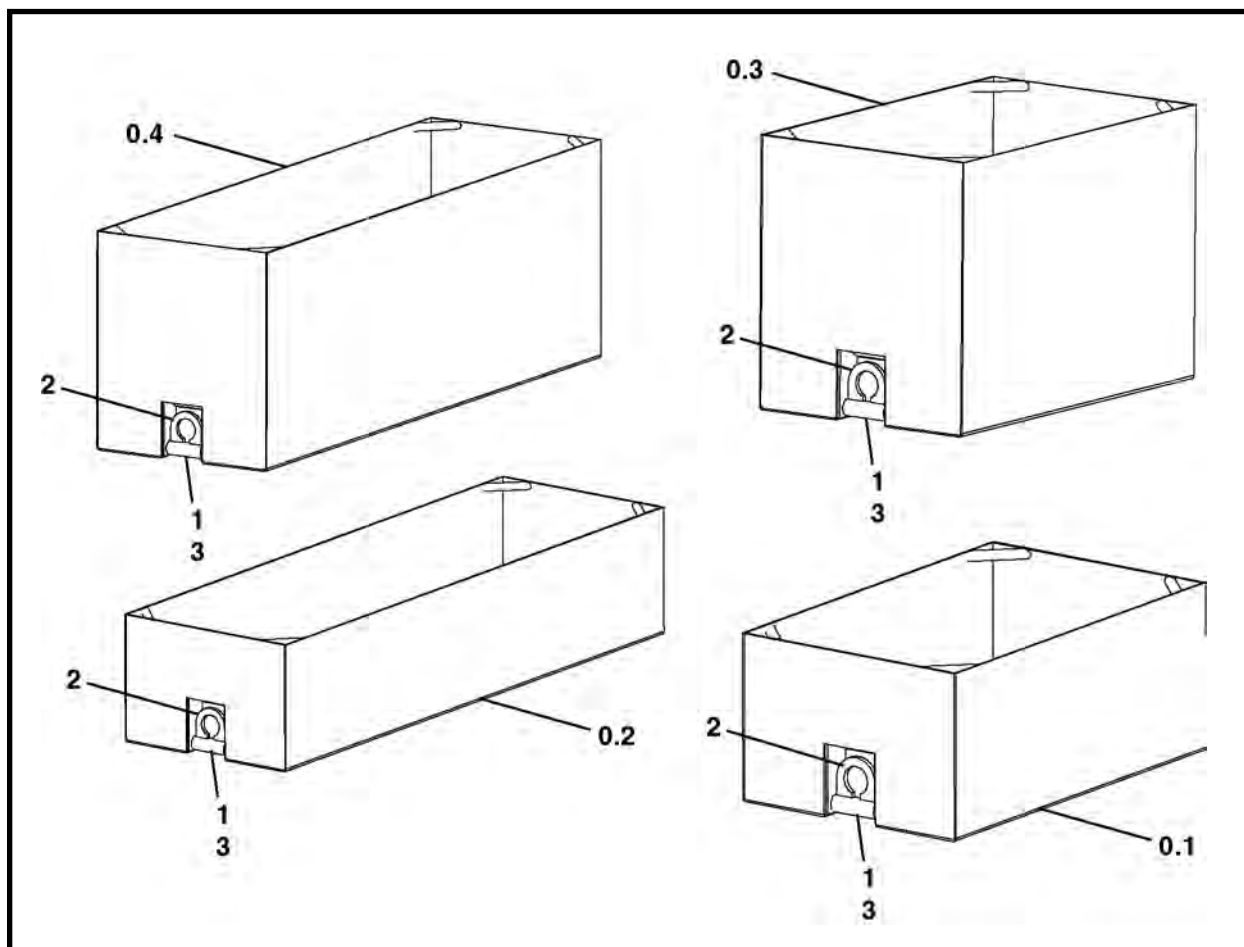
NSS - Not Sold Separately

TARGET, A44853A
GUIDANCE SYSTEM



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44853A	TARGET (Uses Replaceable D Size Alkaline Batteries)
1	1	A44852P	CAP, Battery Target
2	1	P0070-058	SPRING. Compression
3	1	P0085-131	ORING

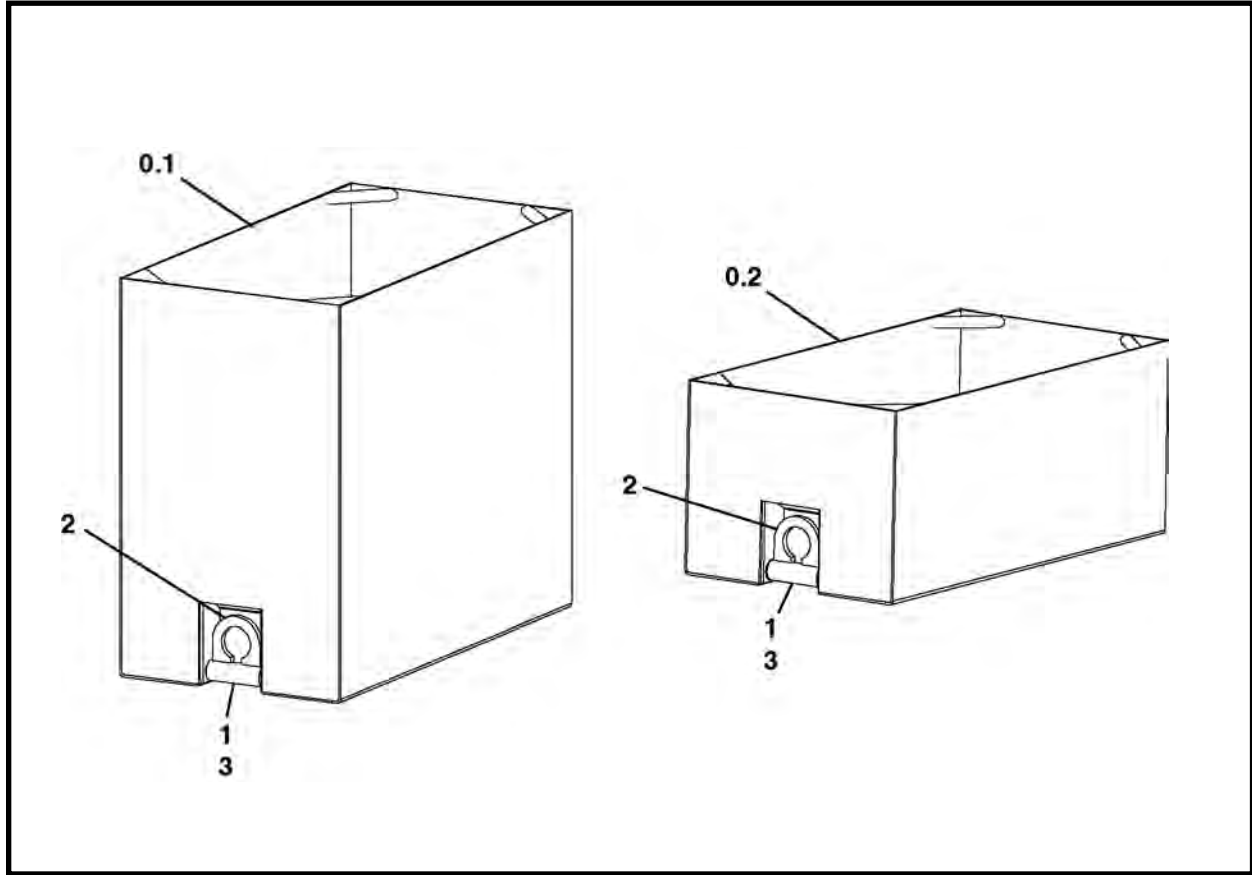
DIRT BUCKETS LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION	Height	Width	Length
0.1	1	FA40223F	DIRT BUCKET (9.207 Cu-Ft)	16.5"	25"	40"
0.2*	1	FA40224F	DIRT BUCKET (18.4 Cu-Ft)	16.5"	25"	80"
0.3	1	FA40225F	DIRT BUCKET (15.7 Cu-Ft)	28"	25"	40"
0.4*	1	FA40226F	DIRT BUCKET (32 Cu-Ft)	28"	25"	80"
1	2	A40524P	PIN, Lifting Eye			
2	2	003529P02	LIFTING EYE			
3	2	010291P00	BUSHING			

* The 80" long dirt bucket, can only be used with the 40" or 80" frame extensions.

DIRT BUCKETS **SINGLE STAGE FRAME**



ITEM	QTY	PART NO.	DESCRIPTION	Height	Width	Length
0.1	1	FA40207F	DIRT BUCKET (16 Cu-Ft)	34"	21"	40"
0.2	1	FA40208F	DIRT BUCKET (8 Cu-Ft)	16.5"	21"	40"
1	2	A40524P	PIN, Lifting Eye			
2	2	003529P02	LIFTING EYE			
3	2	010291P00	BUSHING			

NOTES



Operator Controls

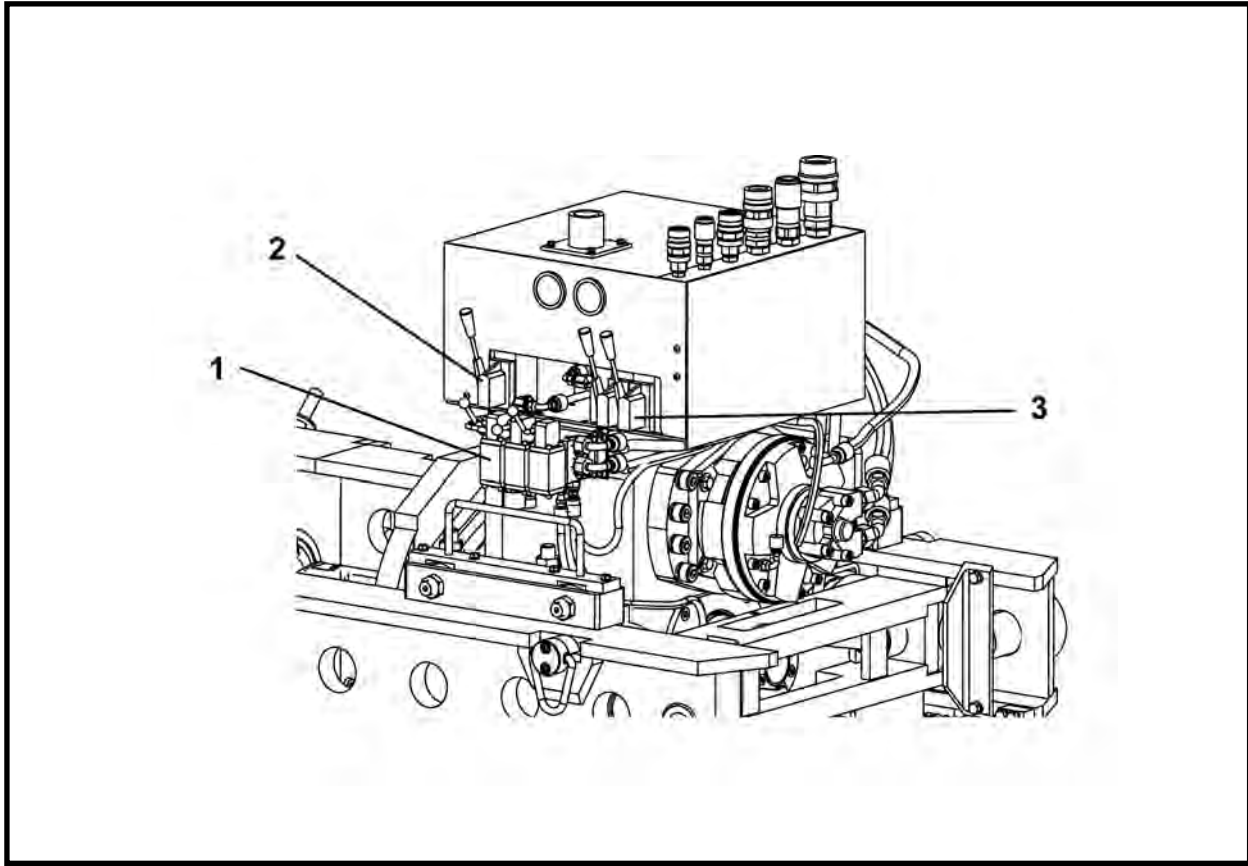
GBM Frame

308A Latching Frame Controls (SN FA40032F-20 & Before)	2
308A (SN FA40032F-21 & After) & 339A (SN FA43500F-01 Thru 06) Latching Frame Controls	3
339A Latching Frame Controls (SN FA43500F-7 & After)	4
240A Single Stage Frame Controls	5

Power Pack

P100Q & P150Q Power Pack Controls	6
P100Q Remote Instrument Panel (Earlier Models), P0125-119R	8
P100Q Remote Instrument Panel (Later Models), P0125-124N	9
P100E Electrical Box Controls	10
P100E Oil Pump Control	11
P150Q Remote Instrument Panel, P0125-124N	12
E-Stop, A43765A	13

308A LATCHING FRAME CONTROLS
GBM308A (SN FA40032F-20* & BEFORE)

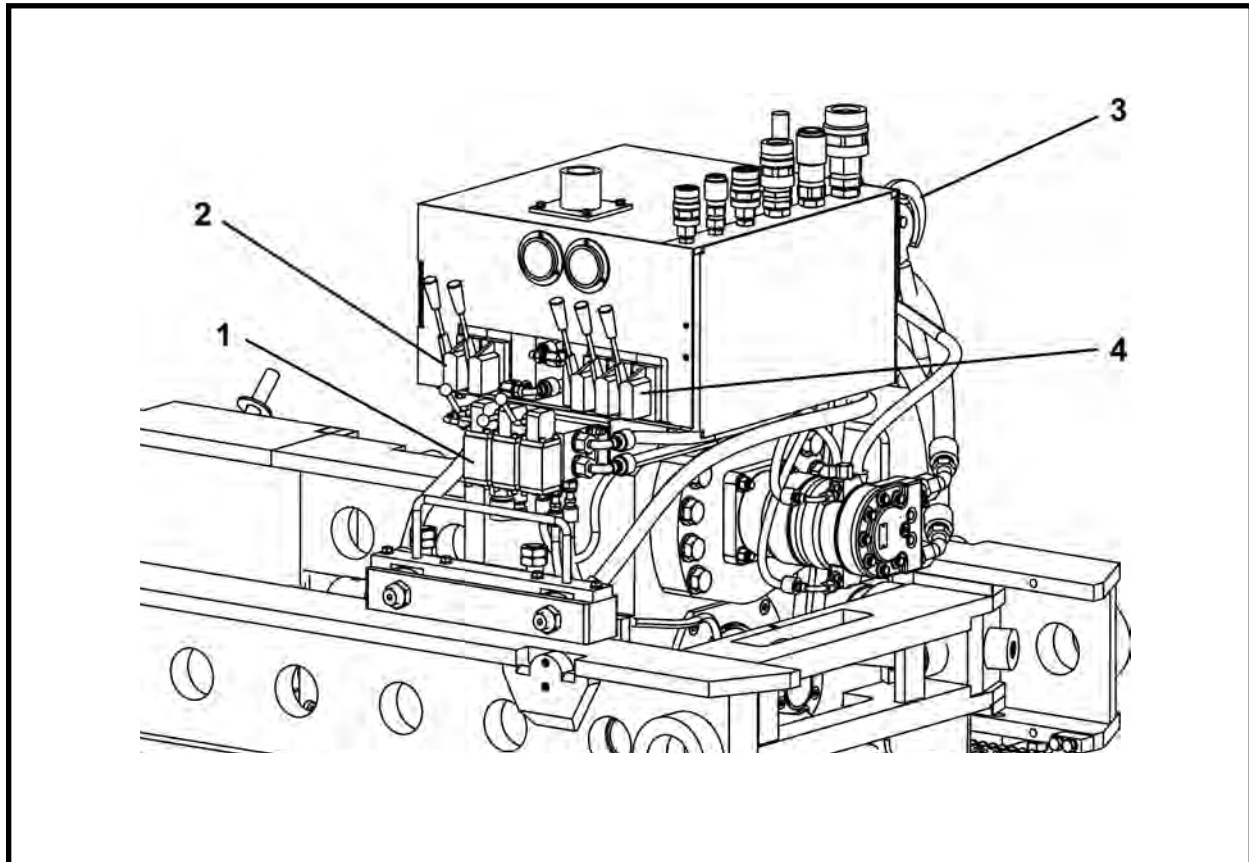


ITEM	QTY	PART NO.	DESCRIPTION
1*	1	A42461P	VALVE, Three Section
2*	1	P0302-419	VALVE, Single Section
3*	1	P0302-420	VALVE, Two Section

* Refer to Section 7, Valves for parts information.

Note: Some units have been updated with the Powered Cutter Head Valve Package option.

308A & 339A LATCHING FRAME CONTROLS
GBM308A (SN FA40032F-21 & AFTER) & GBM339A (SN FA43500F-01 Thru 06)



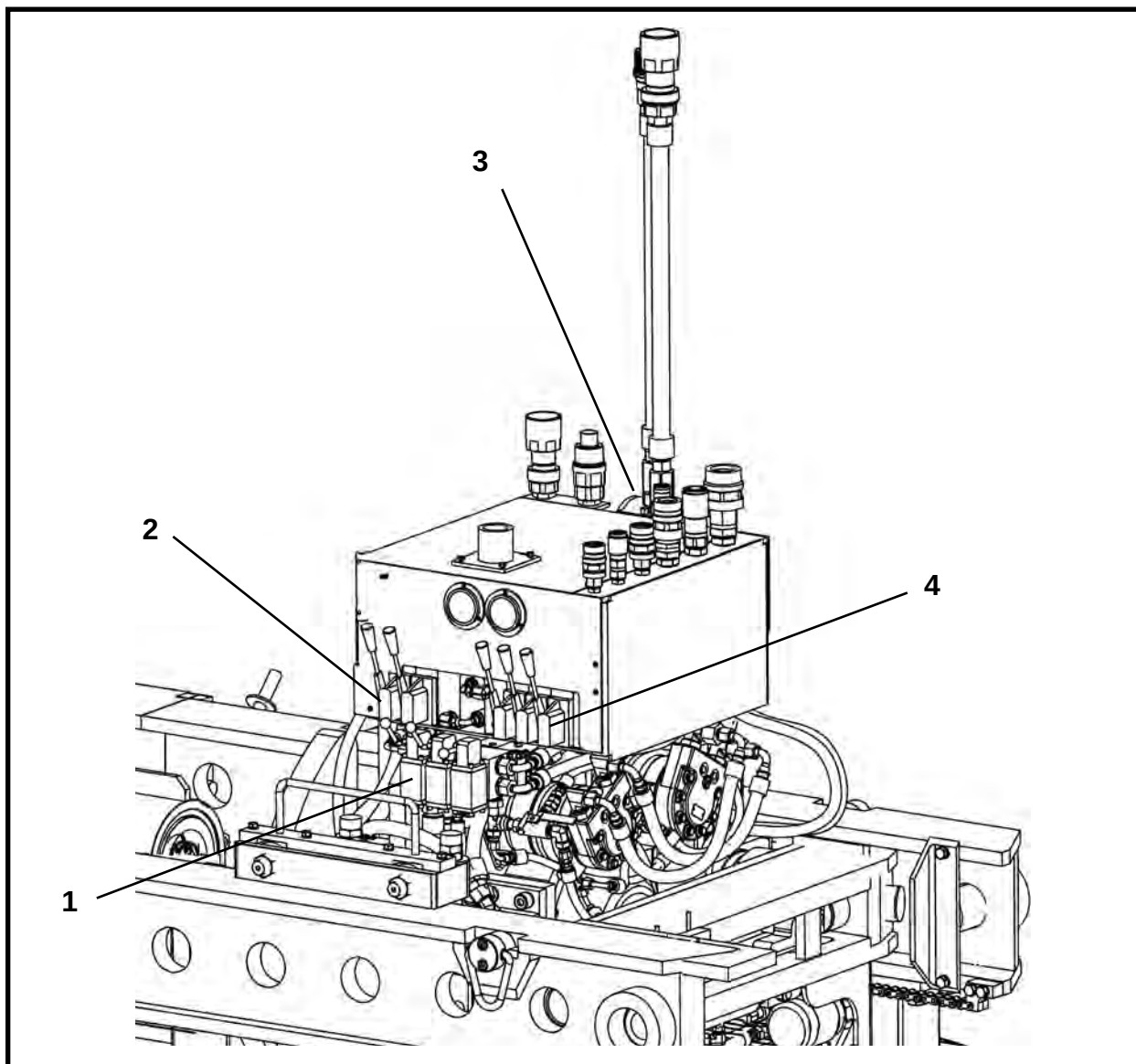
ITEM	QTY	PART NO.	DESCRIPTION
1*	1	A42461P	VALVE, Three Section
2*	1	P0302-503	VALVE, Two Section
3**	1	P0100-060	MULTIFASTER
4*	1	P0302-502	VALVE, Three Section

* Refer to Section 7, Valves for parts information.

** Refer to Section 6, Hydraulics for parts information.

339A LATCHING FRAME CONTROLS

GBM339A (SN FA43500F-07 & AFTER)

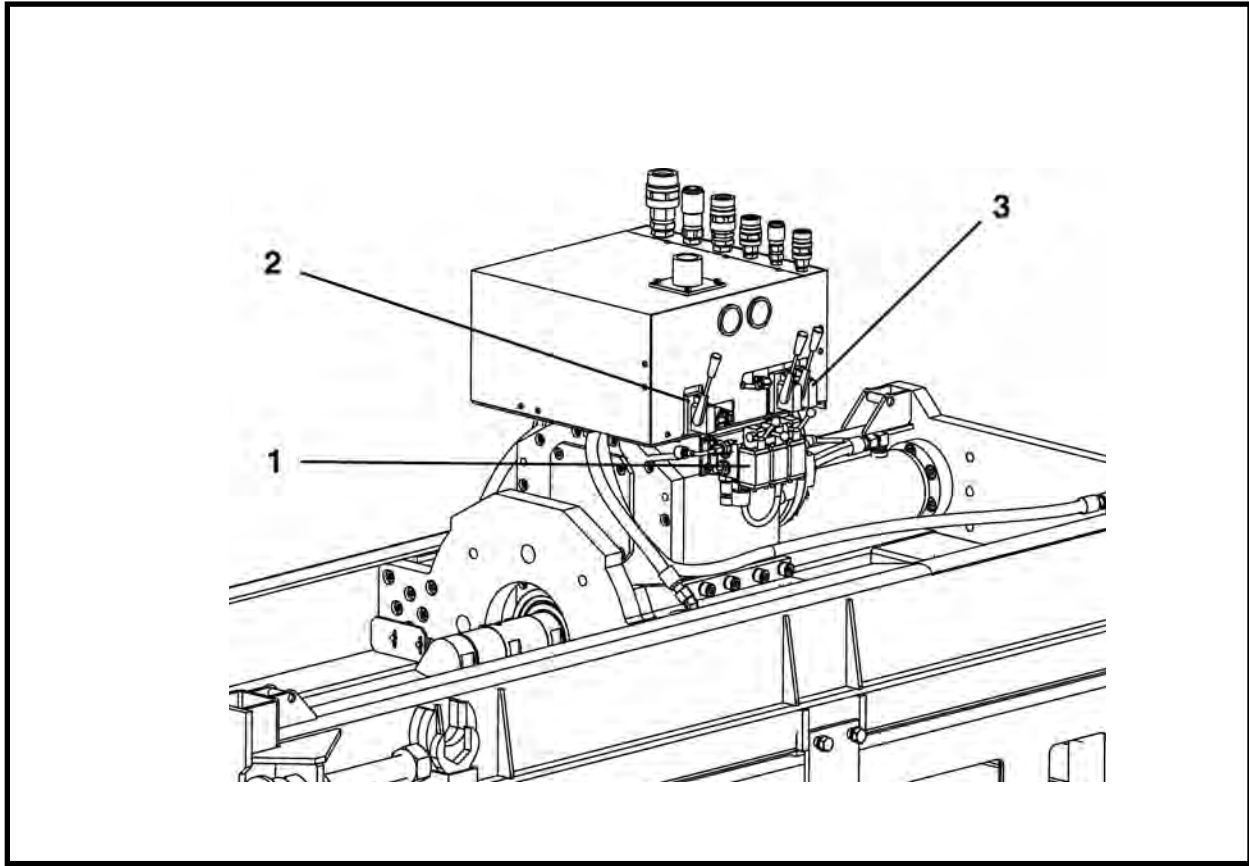


ITEM	QTY	PART NO.	DESCRIPTION
1*	1	A42461P	VALVE, Three Section
2*	1	P0302-503	VALVE, Two Section
3**	1	A43583A	ASSEMBLY, Faster Mobile Half
4*	1	P0302-502	VALVE, Three Section

* Refer to Section 7, Valves for parts information.

** Refer to Section 6, Hydraulics for parts information.

240A SINGLE STAGE FRAME CONTROLS
GBM240A

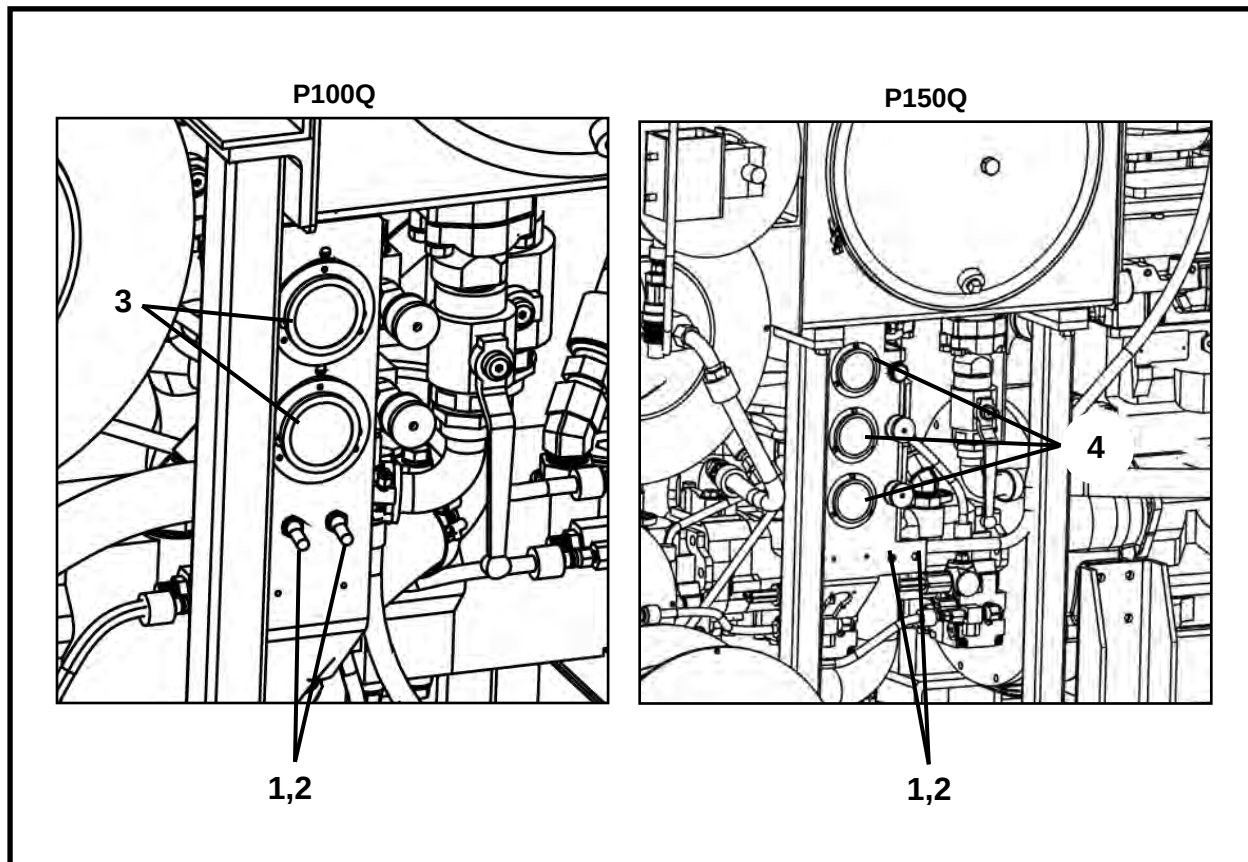


ITEM	QTY	PART NO.	DESCRIPTION
1*	1	A42461P	VALVE, Three Section
2*	1	P0302-419	VALVE, Single Section
3*	1	P0302-420	VALVE, Two Section

* Refer to Section 7, Valves for parts information.

P100Q & P150Q POWER PACK CONTROLS

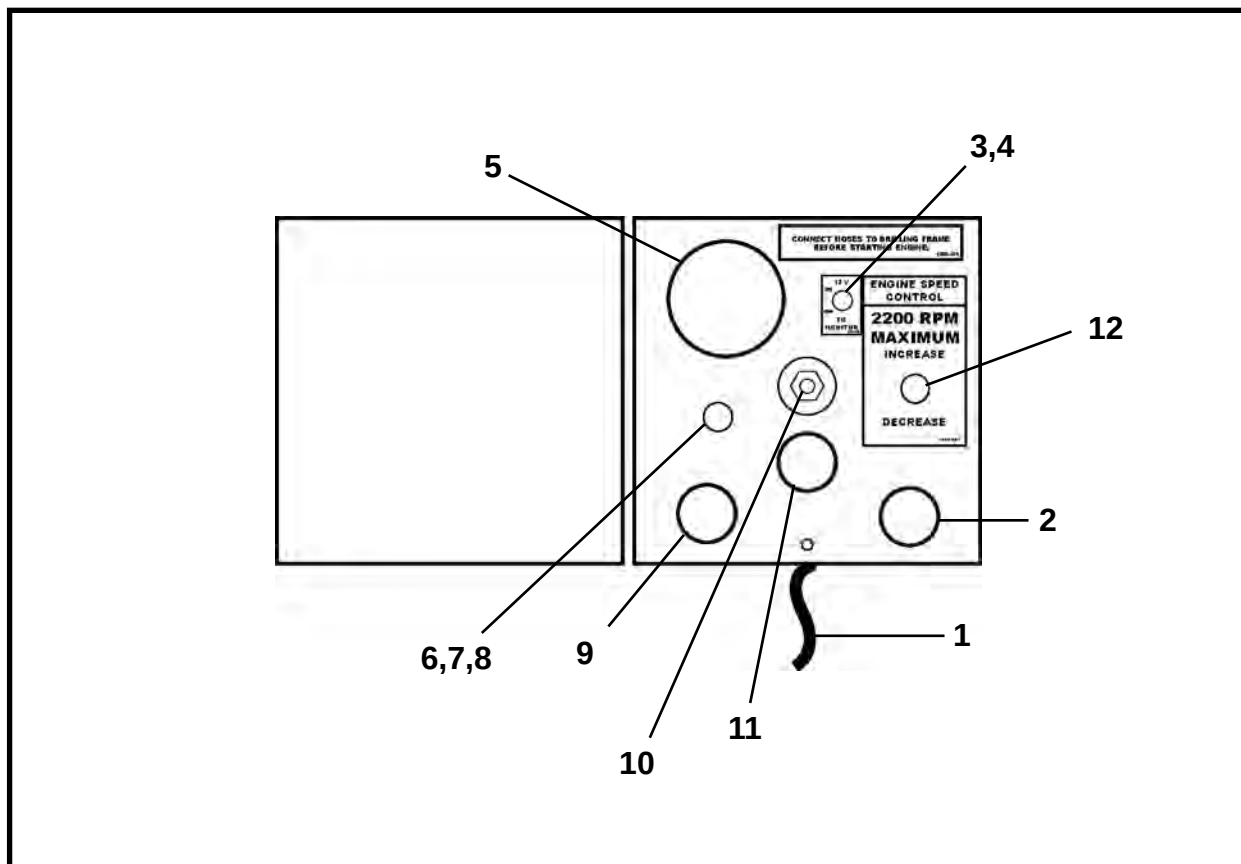
P100Q & P150Q



ITEM	QTY	PART NO.	DESCRIPTION
1	2	P0056-009	SWITCH, Toggle
2	2	P0056-010	BOOT, Toggle Switch
3	2	P0301-142	GAUGE, 5000 psi (P100Q)
4	3	P0301-146	GAUGE, 6000 psi (P150Q)

NOTES

REMOTE INSTRUMENT PANEL CONTROLS, P0125-119R
POWER PACK P100Q (Tier II Engine Models)

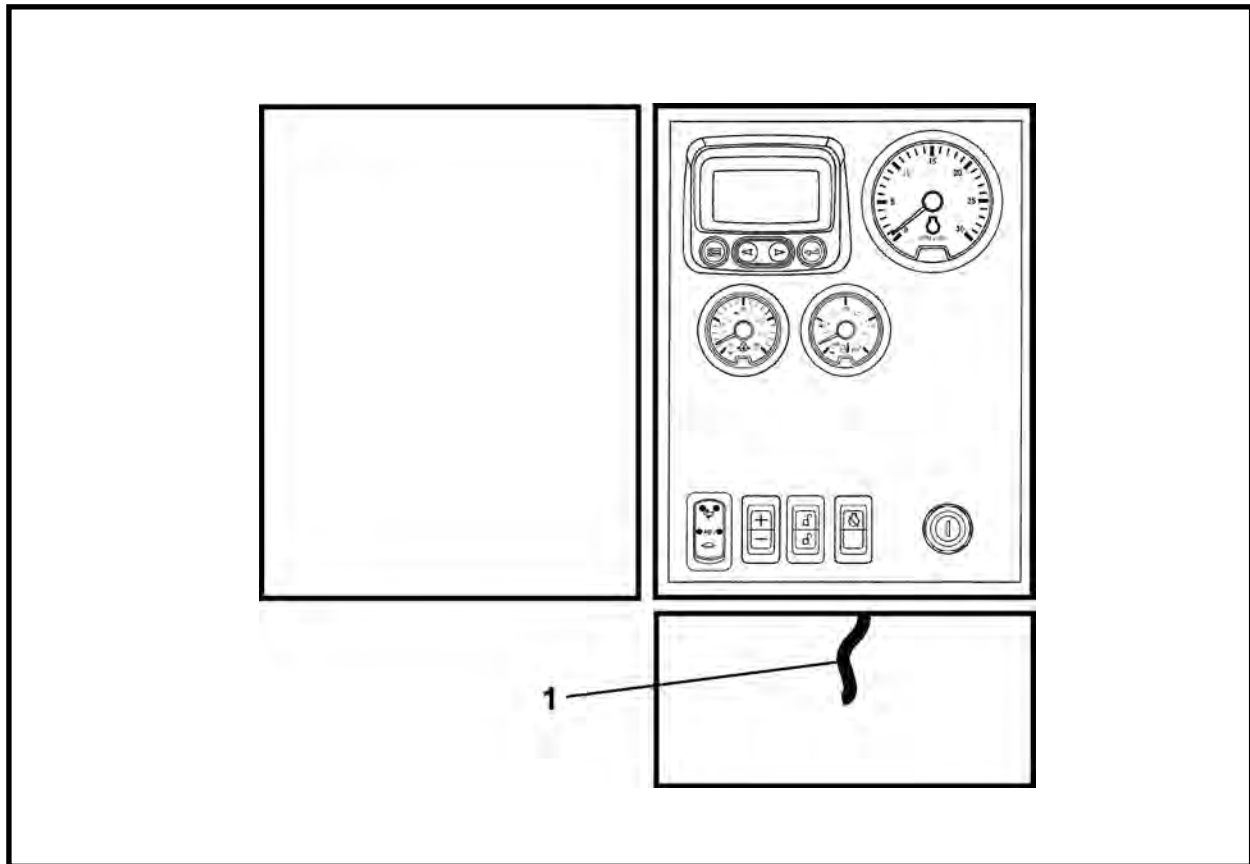


ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0125-119R	REMOTE INSTRUMENT PANEL With 50' Cord
1	1	P0125-119P	HARNESS (50' Cord)
2	1	P0125-119T	GAUGE, Voltmeter
3*	1	P0056-009	SWITCH, Toggle
4*	1	P0056-010	BOOT, Toggle Switch
5	1	P0125-119U	TACHOMETER
6	1	P0125-119AA	SWITCH, Key
7	1	P0125-119AB	WASHER, Key Switch
8	1	P0125-119AC	NUT, Key Switch
9	1	P0125-117AC	GAUGE, Oil Pressure
10	1	P0125-117J	SWITCH, Start Button-Override
11	1	P0125-117AA	GAUGE, Water Temperature
12	1	P0125-119AF	SWITCH, Throttle
13**	1	A45901A	CORD, Extension 50 ft (Not Shown)

*Later models do not have this switch.

** Item 13, A45901A is an optional item. It is not part of P0125-119R.

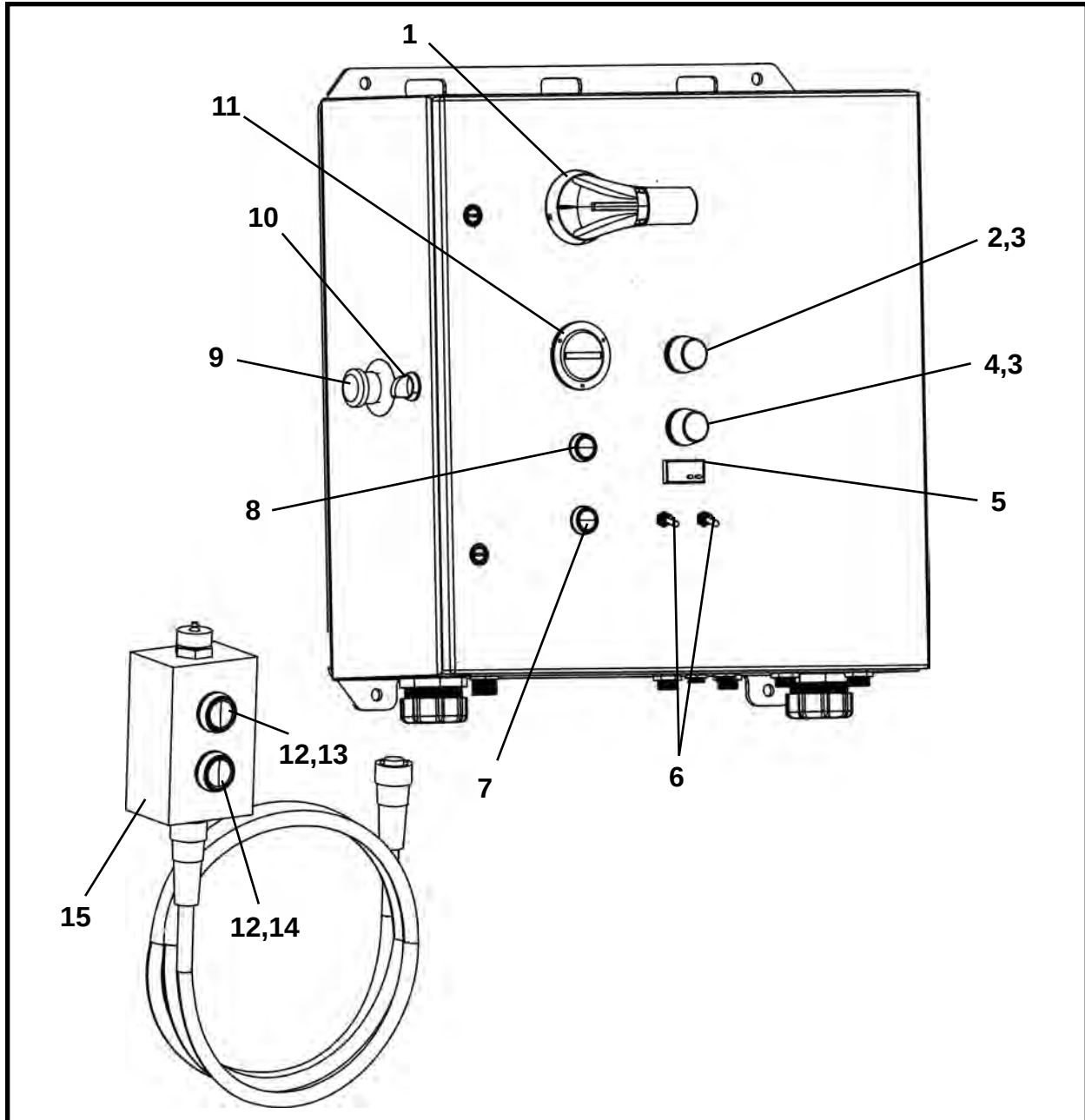
**REMOTE INSTRUMENT PANEL CONTROLS, P0125-124N
P100Q (Tier III Engine Models)**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0125-124N	REMOTE INSTRUMENT PANEL With 50' Cord
1	1	P0125-124S	CORD, 50'

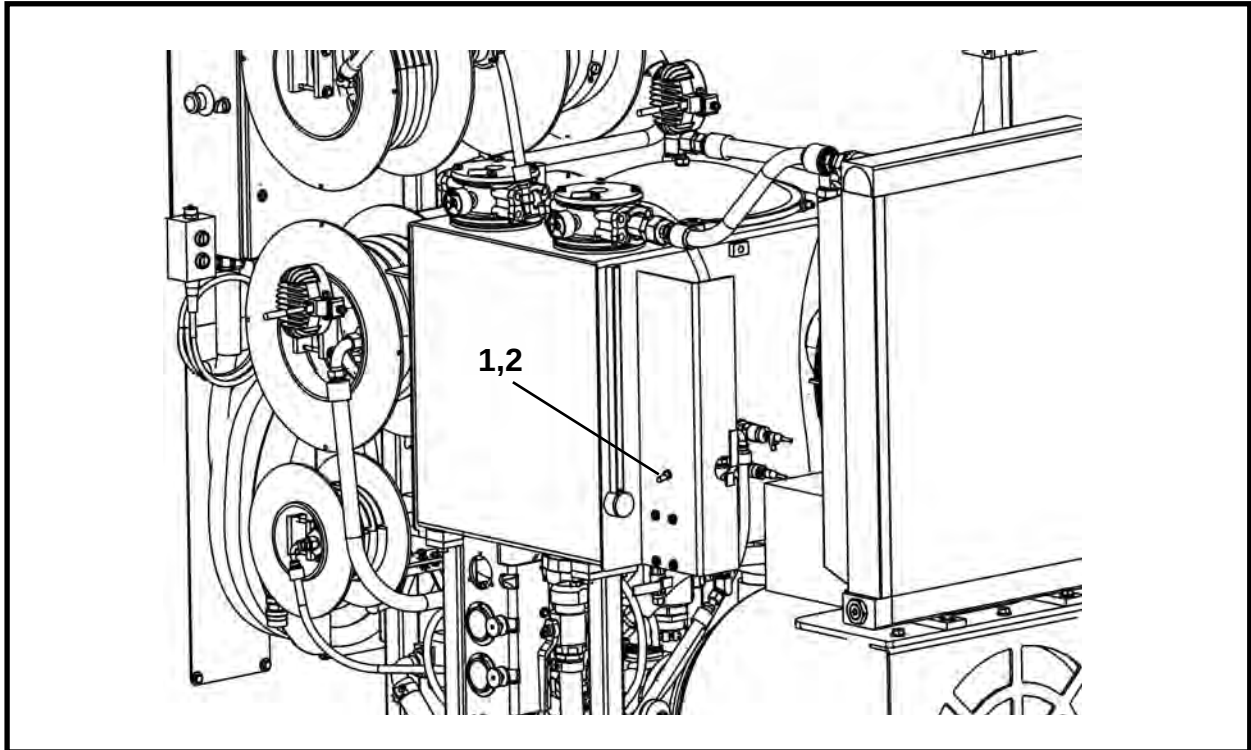
ELECTRICAL BOX CONTROLS

P100E



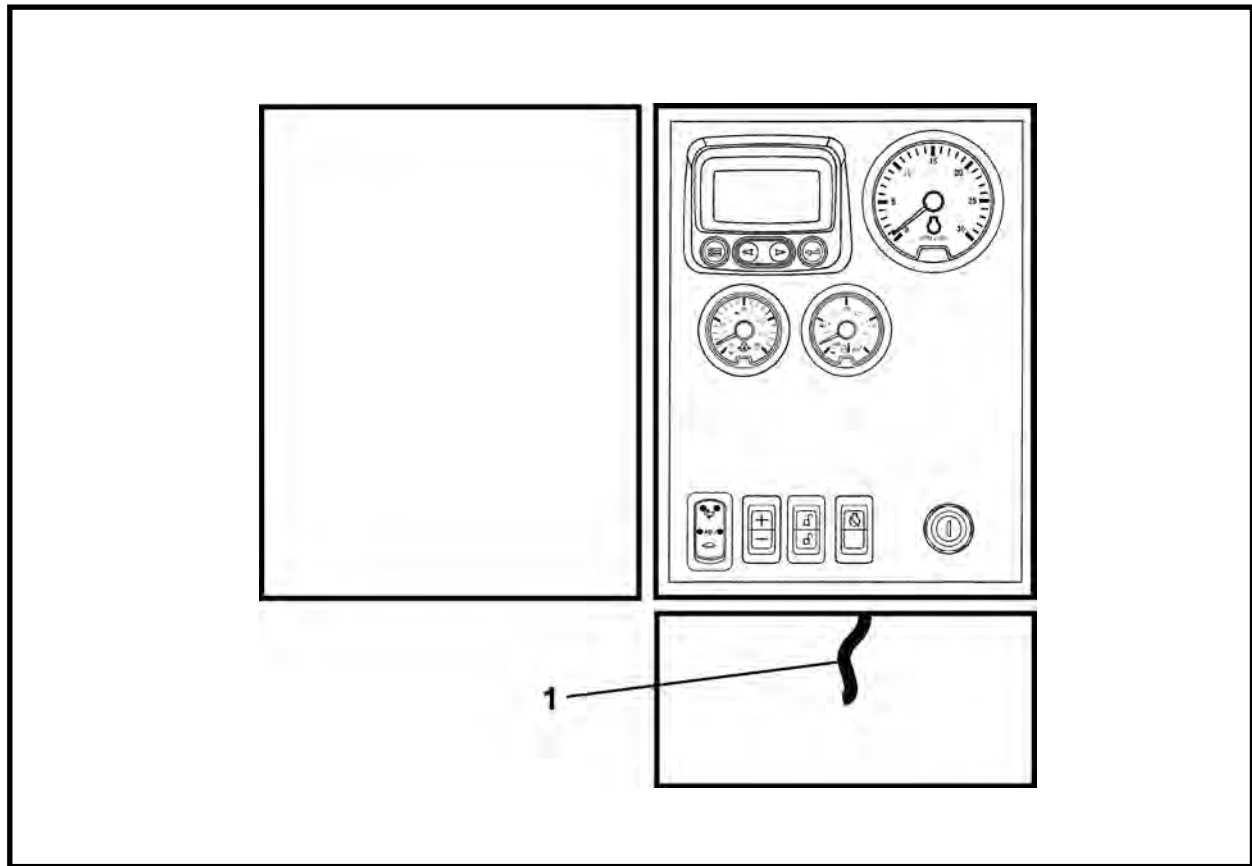
ITEM	QTY	PART NO.	DESCRIPTION
1	1	P0251-693	DISCONNECT, Main Power Handle and Breaker
2	1	P0251-514	LENS, Plastic Green
3	2	P0251-463	LIGHT, Pilot
4	1	P0251-464	LENS, Plastic Red
5	1	P0251-687	DISPLAY, Digital
6	2	P0056-147	SWITCH, Toggle
7	1	P0310-412F	PUSHBUTTON, Red Illuminate
8	1	P0310-411F	PUSHBUTTON, Green Illuminate
9	1	P0310-420F	E-STOP BUTTON
10	1	P0310-421A	SWITCH, Two Position
11	1	P0251-410	HOURMETER
12	2	P0310-417AF	PUSHBUTTON
13	1	P0056-123F	CAP, Red
14	1	P0056-148	CAP, Green
15	1	A48128A	ASSEMBLY, Remote Pendant

OIL PUMP CONTROL
P100E



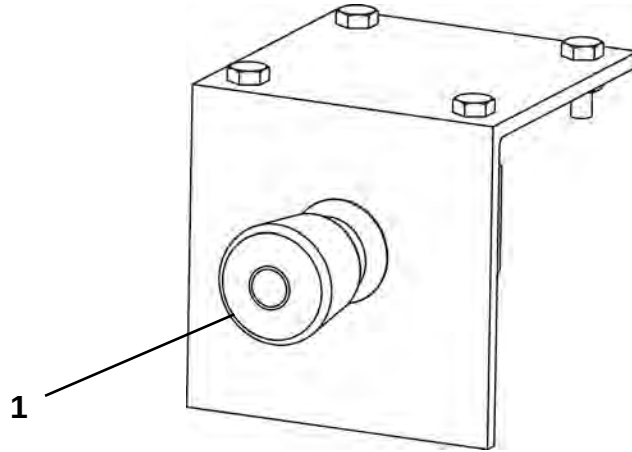
ITEM	QTY	PART NO.	DESCRIPTION
1	1	P0056-009	SWITCH, Toggle
2	1	P0056-010	BOOT, Toggle

REMOTE INSTRUMENT PANEL CONTROLS, P0125-124N P150Q



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0125-124N	REMOTE INSTRUMENT PANEL With 50' Cord
1	1	P0125-124S	CORD, 50'

E-STOP ASSEMBLY, A43765A
P100Q & P150Q



ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A43765A	E-STOP ASSEMBLY
1	1	P0310-420F	PUSHBUTTON, Illuminated E-Stop

* For complete parts information, refer to E-Stop Assembly, A43765A in Section 3, Structural.

NOTES



Electrical

Power Pack

P100Q

Electrical Assembly P100Q, A42048A (SN FA42440F-75 & Before)	2
Electrical Assembly P100Q, A47021A (SN FA42440F-76 & After)	4
Electrical Schematic P100Q	5

P100E

Electrical Assembly P100E, A48130A	6
Electrical Schematic P100E	8
Electrical Box Assembly, A48129A	10
Remote Pendant Assembly, A48128A	12
Remote Pendant Electrical Schematic	13

P150Q

Electrical Assembly P150Q, A45949A (SN FA40035F-05 & Before)	14
Electrical Assembly P150Q, A47021A (SN FA40035F-06 & After)	16
Electrical Schematic P150Q	17

Guidance System (Gen 3)

Power Adapter, A42498A (SN FA42035F-86 & Before)	18
Power Adapter With Remote Focus, A45640A (SN FA42035F-87 & After)	19

Guidance System (Gen 4) Contact Factory for Parts Replacement

P100Q (SN FA42440F-75 & Before)

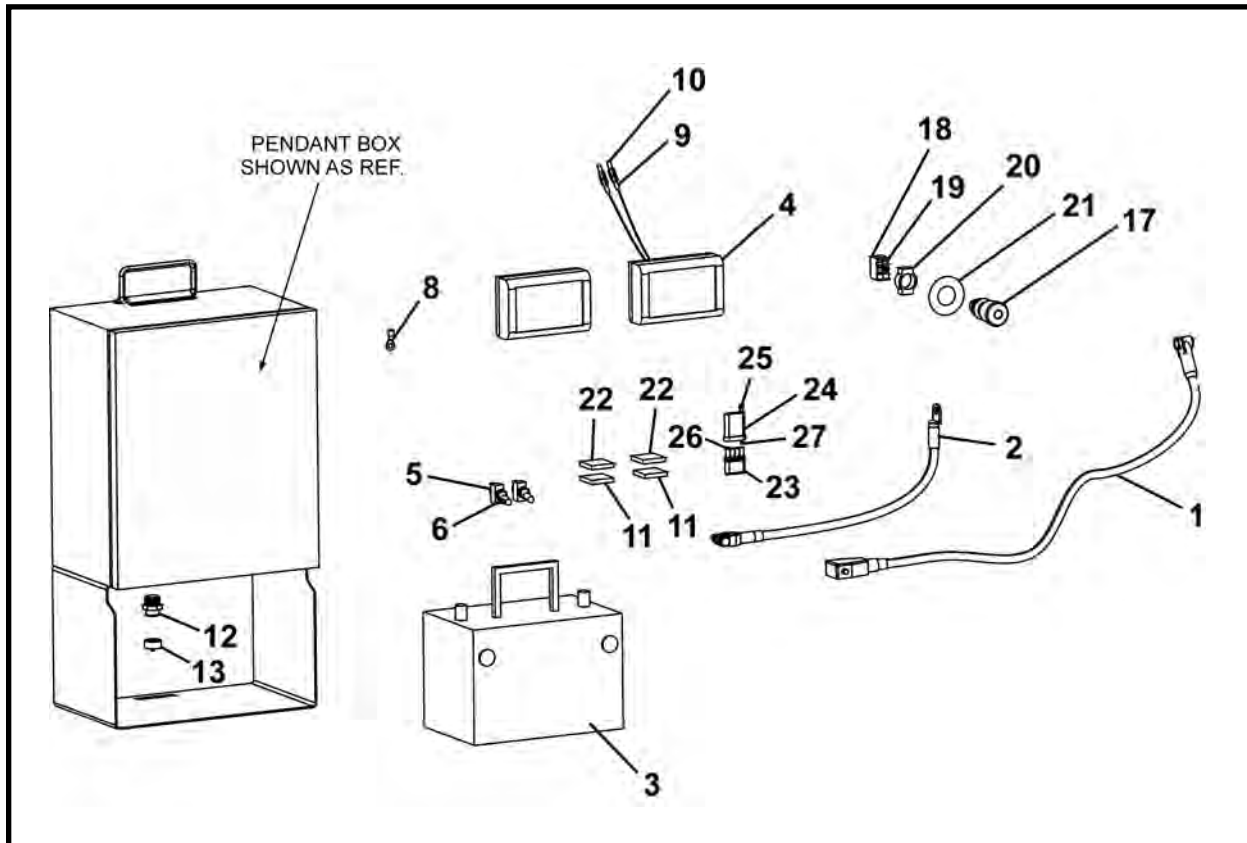


P100Q POWER PACK ELECTRICAL SCHEMATIC, A42048A**P100Q (SN FA42440F-75 & Before)**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42048A	ELECTRICAL SCHEMATIC
1	1	A40128A	ASSEMBLY, Positive Cable
2	1	A40129A	ASSEMBLY, Negative Cable
3	1	P0064-019	BATTERY, 12 VDC
4	2	P0053-026	LIGHT, Halogen Flood
5	3	P0056-009	SWITCH, Toggle
6	3	P0056-010	BOOT, Toggle Switch
7	8	P0017-10-326	SCREW, Machine 10-32 x.75
8	8	P0001-03-000	NUT
9	4	P0054-008	WIRE
10	2	P0055-011	TERMINAL
11	6	P0055-100A	TERMINAL
12	6	P0055-101A	TERMINAL
13	2	P0054-031	HOLDER, 30 AMP Fuse (Includes item 14)
14	2	P0054-031C	FUSE, 30 AMP
15	1	P0054-068	PLUG, 3 Wire Female
16	13	P0054-018	CABLE
17	1	P0054-090	MINI-PLEX CAPS
18	1	P0125-117I	SWITCH, Oil Pressure
19	1	P0125-117K	SWITCH, Water Temp
20	1	P0125-117AB	SENDER, Oil Pressure
21	1	P0125-117J	SWITCH, Shutdown Override
22	1	P0125-119T	VOLTMETER
23	1	P0125-119AA	SWITCH, Ignition
24	1	P0125-119U	TACHOMETER
25	1	P0125-117AC	GAUGE, Oil Pressure
26	1	P0125-117AA	GAUGE, Water Temp
27	1	P0125-119J	STARTER

P100Q POWER PACK ELECTRICAL ASSEMBLY, A47021A

P100Q (SN FA42440F-76 & After)



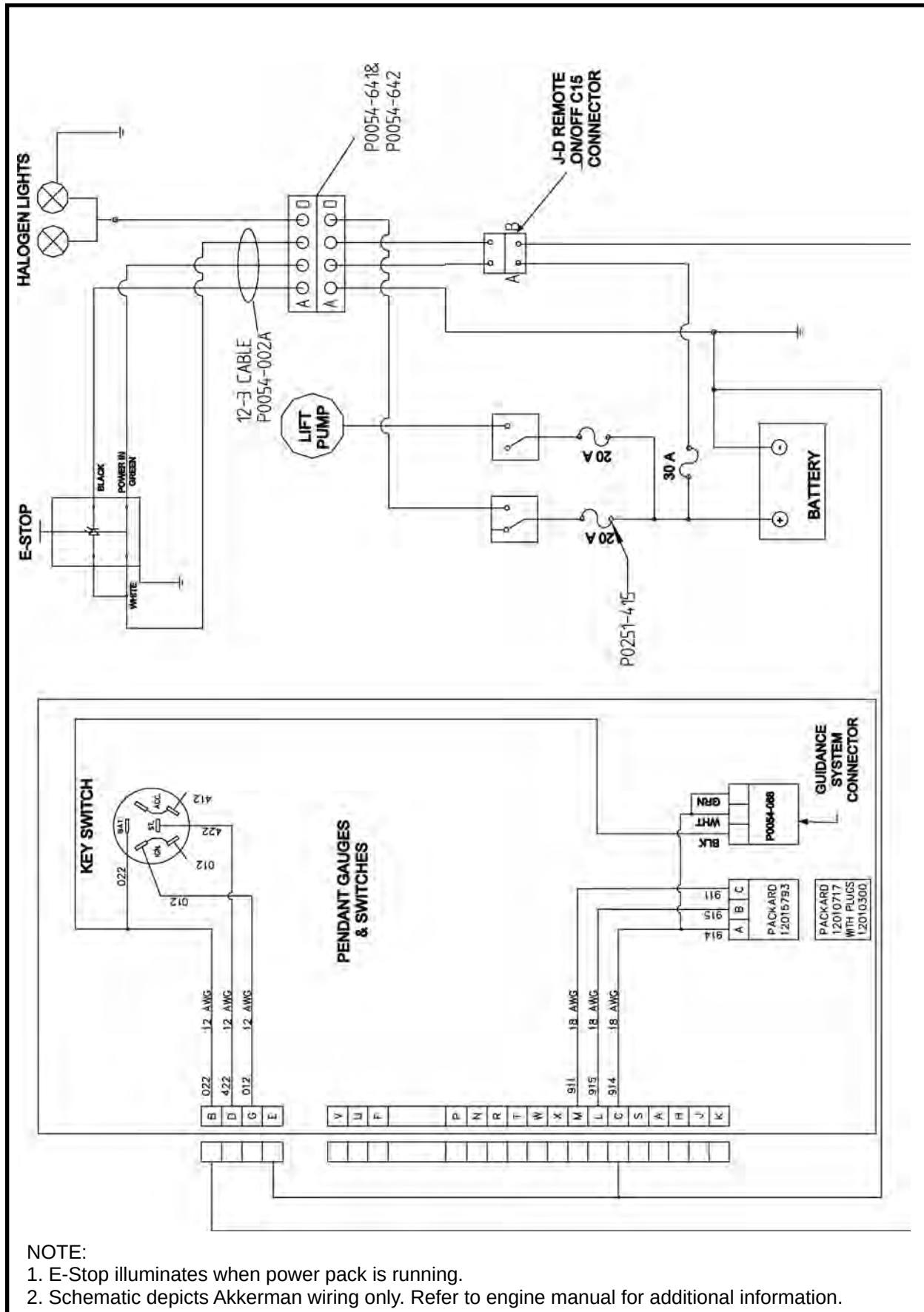
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A47021A	ELECTRICAL ASSEMBLY, P150Q
1	1	A40128A	CABLE, Positive
2	1	A40129A	CABLE, Negative
3	1	P0064-019	BATTERY
4	2	P0053-026	LIGHT, Halogen Flood
5	3	P0056-009	SWITCH, Toggle
6	3	P0056-010	SWITCH, Toggle Boot
7*	108 LI	P0054-002A	CABLE
8	2	P0055-011	TERMINAL, Ring
9	6	P0055-100A	TERMINAL, Male
10	6	P0055-101A	TERMINAL, Female
11	2	P0251-415	HOLDER, Weatherproof Fuse
12	1	NSS	RECEPTACLE, 3 Pin Female
13	1	P0054-090	CAP, Mini-Plex
14*	168 LI	P0054-616	LOOM, Corrugated
15*	4	P0055-128	CLAMP, Insulated 3/4
16*	168 LI	P0054-013	WIRE
17	1	P0310-420F	E-STOP, Push Button Illuminated
18	1	P0251-171	MODULE, LED
19	1	P0056-122F	BLOCK, Contact
20	1	P0310-419F	LATCH, Mounting
21	1	P0310-474F	DECAL, E-Stop
22	2	P0251-414	FUSE, 20A
23	1	P0054-641	CONNECTOR, Weather Pack Male
24	1	P0054-642	CONNECTOR, Weather Pack Female
25	8	P0054-645	SEAL, Weather Pack
26	4	P0054-643	PIN, Weather Pack
27	4	P0054-644	SOCKET, Weather Pack

* Not Shown LI - Linear Inch

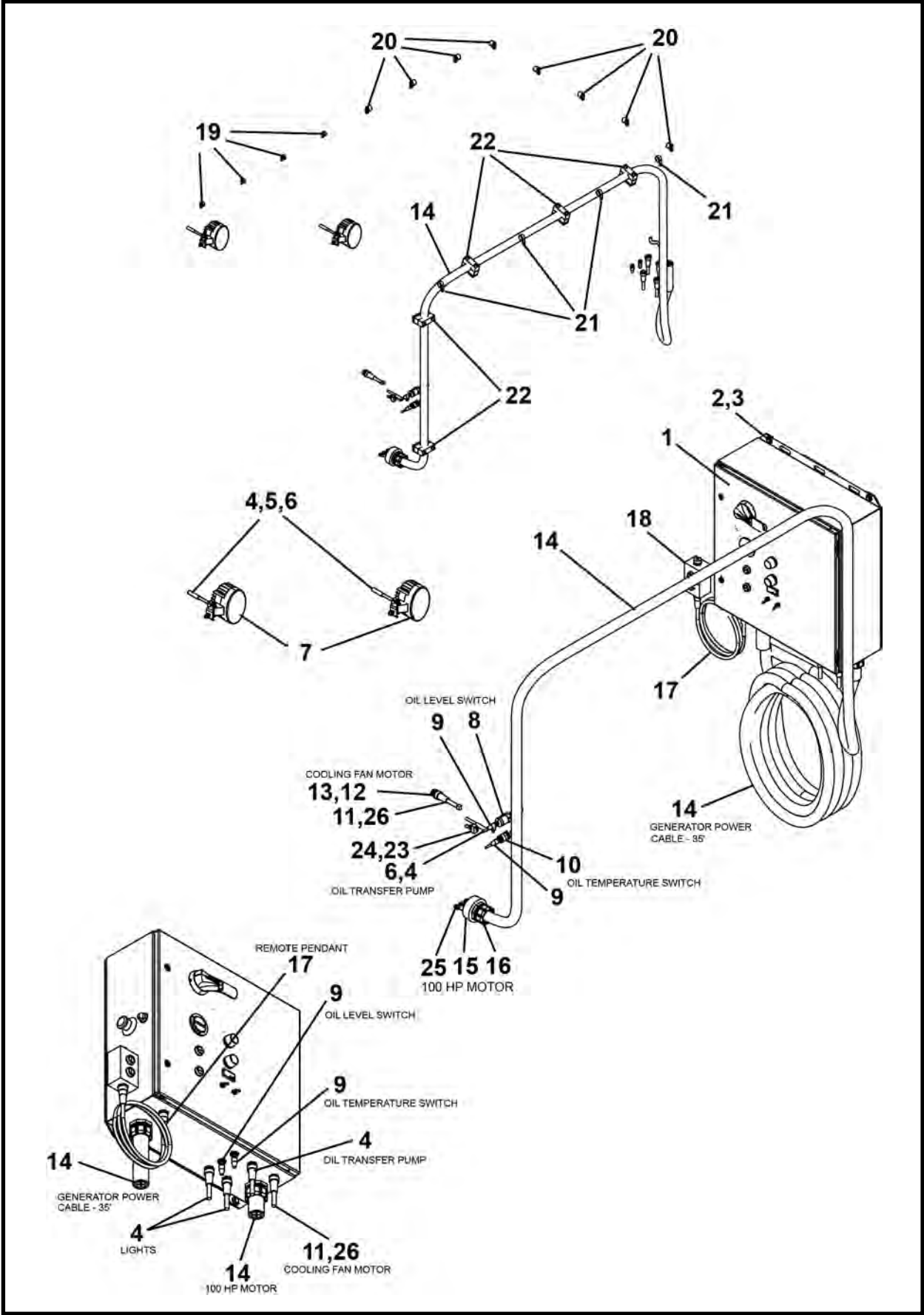
NSS - Not Sold Separately; contact your Akkerman Aftermarket Support representative for factory replacement.

P100Q POWER PACK ELECTRICAL SCHEMATIC, A47021A

P100Q (SN FA42440F-76 & After)



P100E POWER PACK ELECTRICAL ASSEMBLY, A48130A
P100E POWER PACK



P100E ELECTRICAL ASSEMBLY, A48130A**P100E POWER PACK**

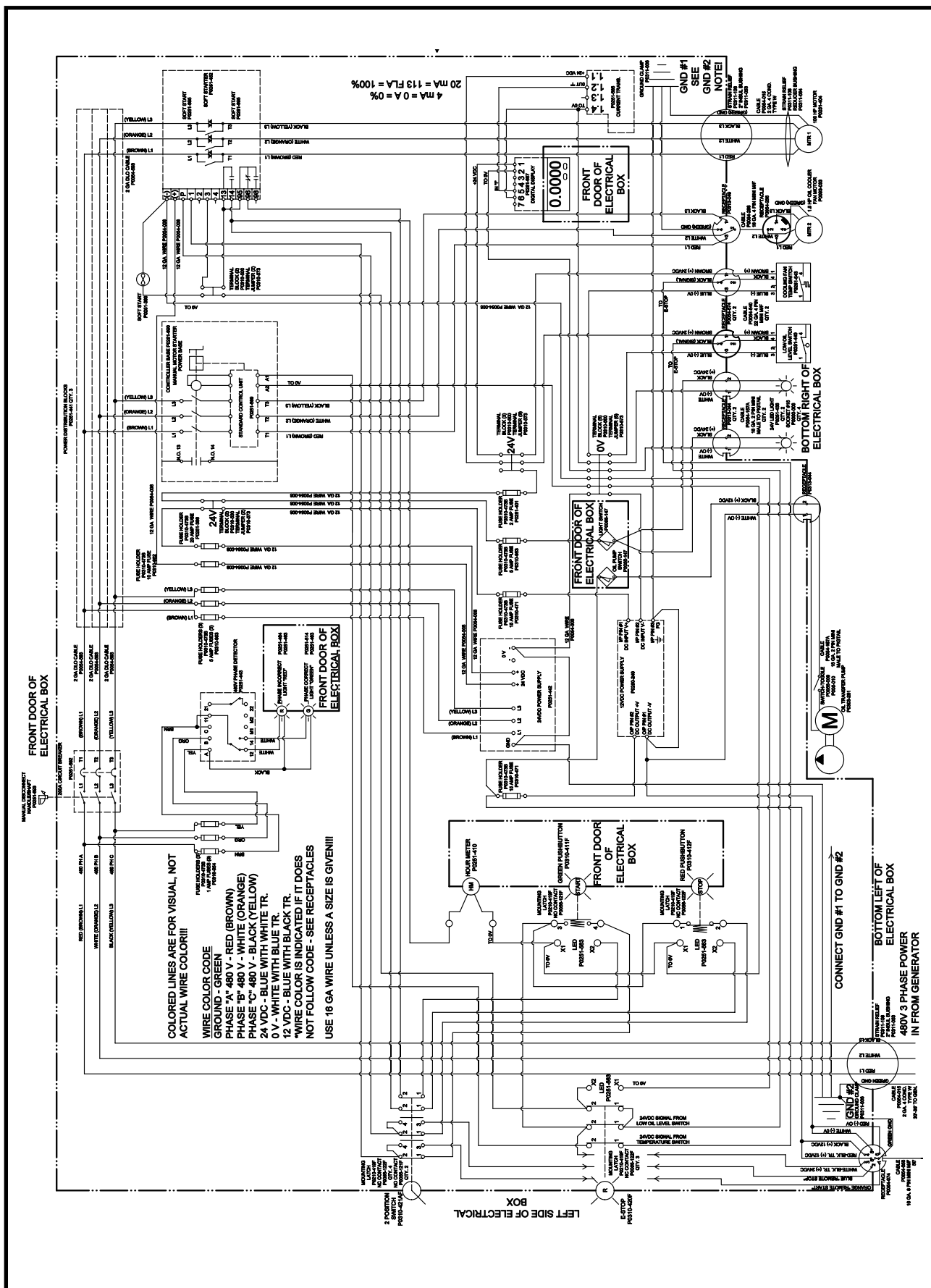
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A48130A	ELECTRICAL ASSEMBLY, P100E
1*	1	A48129A	ASSEMBLY, Electrical Box
2	4	P0040-006	WASHER, Hardened Flat 3/8
3	4	P0001-06-003	BOLT, Hex 3/8 UNC x .75
4	3	P0054-167A	CABLE, Mini 2 Pin Male
5	4	P0313-008	SOCKET
6	3	P0055-206-003	HEAT SHRINK
7	2	P0251-438	LIGHT, Flood 24V LED
8	1	P0251-440	SWITCH, Liquid Level
9	2	P0054-540	CABLE, Micro 4 Pin M/F
10	1	P0251-543	SWITCH, Single Set Point Temperature
11	1	P0054-288	CABLE, Mini 4 Pin M/F
12	1	P0054-286	RECEPTACLE, Mini 4 Pin Male
13	1	P0311-018	NUT, Lock 1/2
14	600 LI	P0054-015	WIRE
15	1	P0311-084	BUSHING, Reducer
16	1	P0311-108	STRAIN RELIEF
17	1	P0054-658	CABLE, Mini 8 Pin M/F
18*	1	A48128A	ASSEMBLY, Remote Pendant
19	4	P0055-126	TUBING, Clamp 1/2 Insulated
20	8	P0055-129	CLAMP, 3/4
21	4	P0055-130	CLAMP, 1
22	5	A42667A	ASSEMBLY, Hose Clamp
23	1	P0056-009	SWITCH, Toggle (Oil Pump)
24	1	P0056-010	BOOT, Toggle (Oil Pump)
25	3	P0055-187	EYELETS
26	1	P0054-287	CABLE, Mini 4 Pin M/F

* Refer to this section for parts information.

LI - Linear Inch

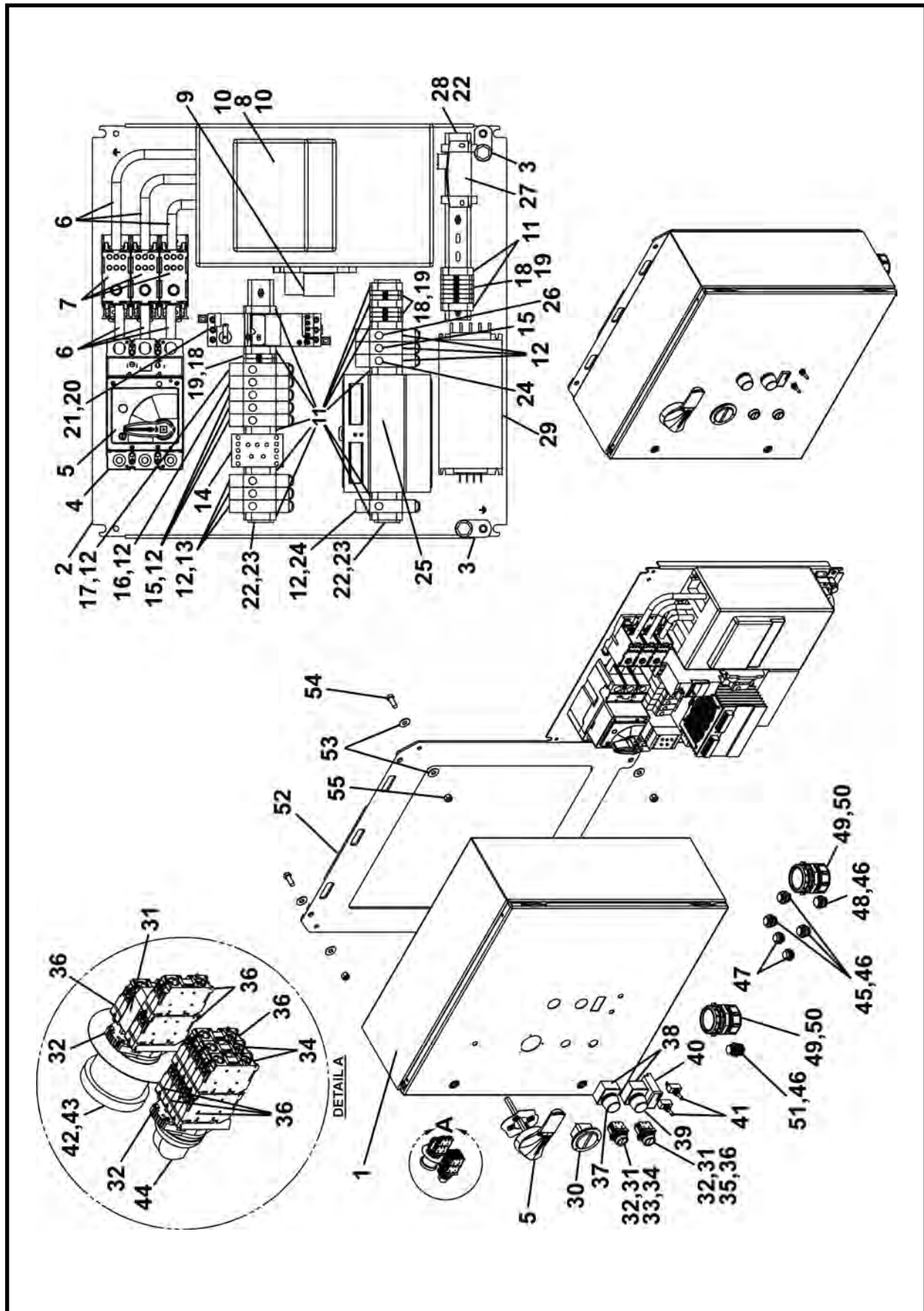
P100E ELECTRICAL SCHEMATIC, A48130A

P100E POWER PACK



NOTES

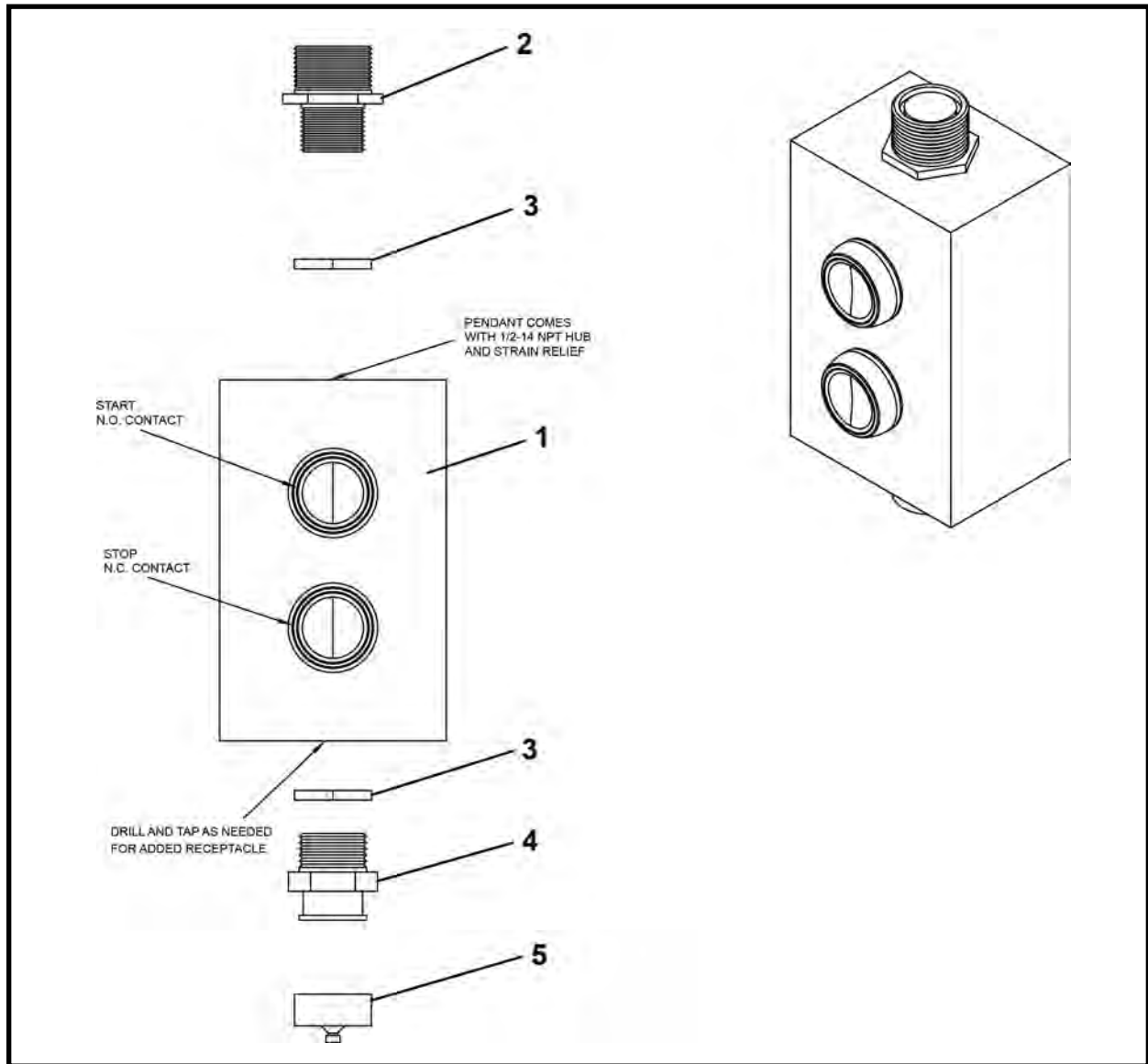
P100E ELECTRICAL BOX ASSEMBLY, A48129A
P100E POWER PACK



P100E ELECTRICAL BOX ASSEMBLY, A48129A
P100E POWER PACK

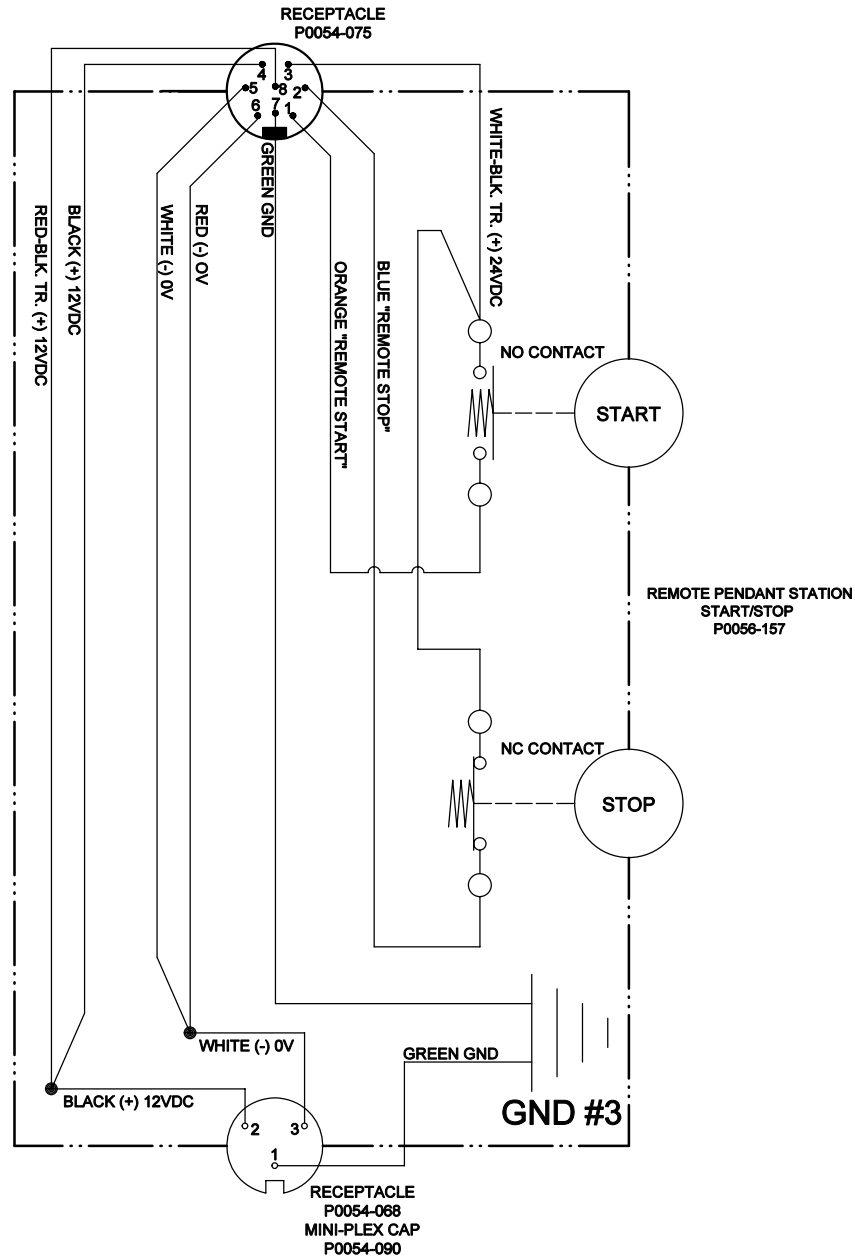
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A48129A	ELECTRICAL BOX ASSEMBLY, P100E
1	1	P0251-668	ENCLOSURE
2	1	P0251-668A	PANEL
3	2	P0311-036	CLAMP, Ground
4	1	P0251-692	BREAKER, Circuit
5	1	P0251-693	HANDLE, Red
6	50	P0054-593	CABLE
7	3	P0251-441	BLOCK, Power Distribution
8	1	P0251-452	STARTER, Soft 100 HP, 480V
9	1	P0251-366	FAN, Cooling
10	2	P0251-695	LUGS, Line/Load
11	13	P0310-571	HOLDER, Fuse
12	12	P0310-473B	HOLDER, Fuse
13	3	P0310-954	FUSE, Time Delay 1.4 AMP
14	1	P0251-443	PHASE DETECTOR, 480V
15	4	P0310-953	FUSE, Time Delay 5 AMP
16	1	P0310-952	FUSE, Time Delay 10 AMP
17	1	P0251-386	FUSE, 20 AMP
18	13	P0310-500	BLOCK, Terminal
19	13	P0310-573	JUMPER, Terminal Strip
20	1	P0251-690	POWER BASE, Motor Starter
21	1	P0251-689	CONTROL UNIT
22	11	P0020-83-022	SCREW, Truss Head 8-32 x 3/8
23	2	P0310-503-013	RAIL, Din - 13.0"
24	2	P0310-471	FUSE, Time Delay 15 AMP
25	1	P0251-442	POWER SUPPLY 24V
26	1	P0251-401	FUSE
27	1	P0251-688	TRANSDUCER, Universal Current
28	1	P0310-503-010	RAIL, Din - 10.0"
29	1	P0250-240	CONVERTOR, DC Single Output
30	1	P0251-410	HOURLMETER
31	3	P0251-563	LIGHT, White LED Pilot
32	4	P0310-419F	LATCH, Mounting
33	1	P0310-411F	PUSHBUTTON, Green Illuminate
34	3	P0056-121F	CONTACT
35	1	P0310-412F	PUSHBUTTON, Red Illuminate
36	8	P0056-122F	BLOCK, Contact
37	1	P0251-514	LENS, Green Plastic
38	2	P0251-463	LIGHT, Red LED Pilot
39	1	P0251-464	LENS, Red Plastic
40	1	P0251-687	DISPLAY, Digital
41	2	P0056-147	SWITCH, Toggle
42	1	P0310-474F	DECAL, Emergency Stop
43	1	P0310-420F	PUSHBUTTON, Illuminated E-Stop
44	1	P0310-421AF	SWITCH, 2 Position
45	3	P0313-044	RECEPTACLE, 2 Pin Female Mini
46	5	P0311-018	NUT, Lock 1/2
47	2	P0054-574	RECEPTACLE, 4 Pin Female Micro
48	1	P0313-049	RECEPTACLE, 4 Pin Female Mini
49	2	P0311-108	STRAIN RELIEF
50	2	P0311-053	BUSHING, Insulating
51	1	P0054-074	RECEPTACLE, 8 Pin Mini Female
52	1	A48139P	PLATE, Electrical Box Mount
53	8	P0040-006	WASHER, Hardened Flat 3/8
54	4	P0001-06-004	BOLT, Hex 3/8 UNC x 1
55	4	P0013-06A-000	NUT, Nylok 3/8 UNC

P100E REMOTE PENDANT ASSEMBLY, A48128A
P100E POWER PACK



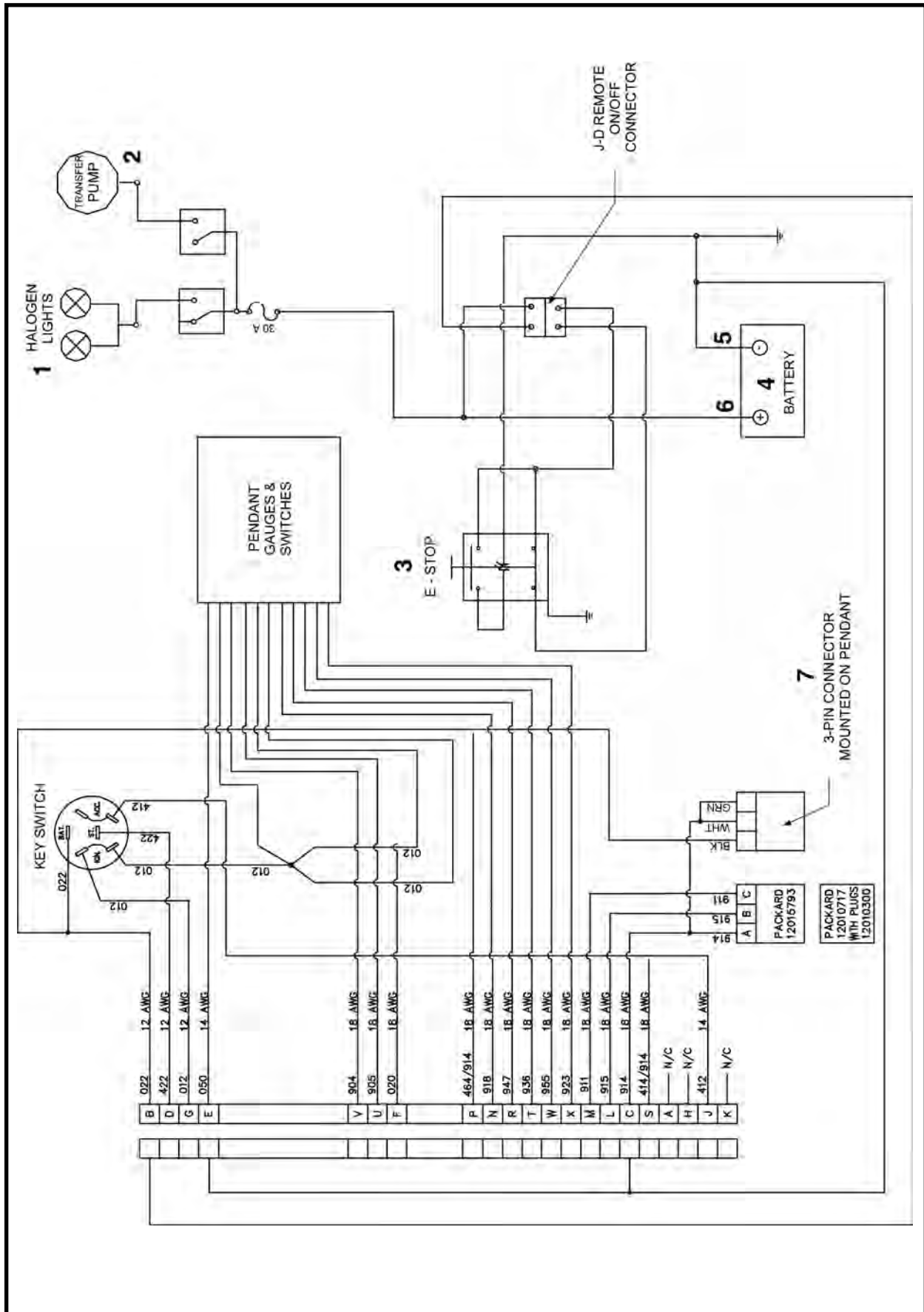
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A48128A	REMOTE PENDANT ASSEMBLY - P100E
1	1	P0056-157	STATION, Pendant
2	1	P0054-075	RECEPTACLE, Mini 8 Pin Male
3	2	P0311-018	NUT, Lock 1/2
4	1	P0054-068	RECEPTACLE, Mini 3 Pin Female
5	1	P0054-090	CAP, Mini-Plex

P100E REMOTE PENDANT ELECTRICAL SCHEMATIC, A48128A
P100E POWER PACK



P150Q ELECTRICAL ASSEMBLY, A45949A

P150Q (SN FA40035F-05 & Before)



P150Q ELECTRICAL ASSEMBLY, A45949A

P150Q (SN FA40035F-05 & Before)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45949A	ELECTRICAL SCHEMATIC, P150Q
1	2	P0053-026	LIGHT, Halogen Flood
2	1	P0303-281	PUMP, Transfer
3*	1	A43765A	E-STOP
4	1	P0064-019	BATTERY
5	1	A40129A	CABLE, Negative
6	1	A40128A	CABLE, Positive
7	1	P0054-068	CONNECTOR
8**	2	P0054-031	HOLDER, Fuse
9**	A/N	P0054-031C	FUSE, 30 AMP

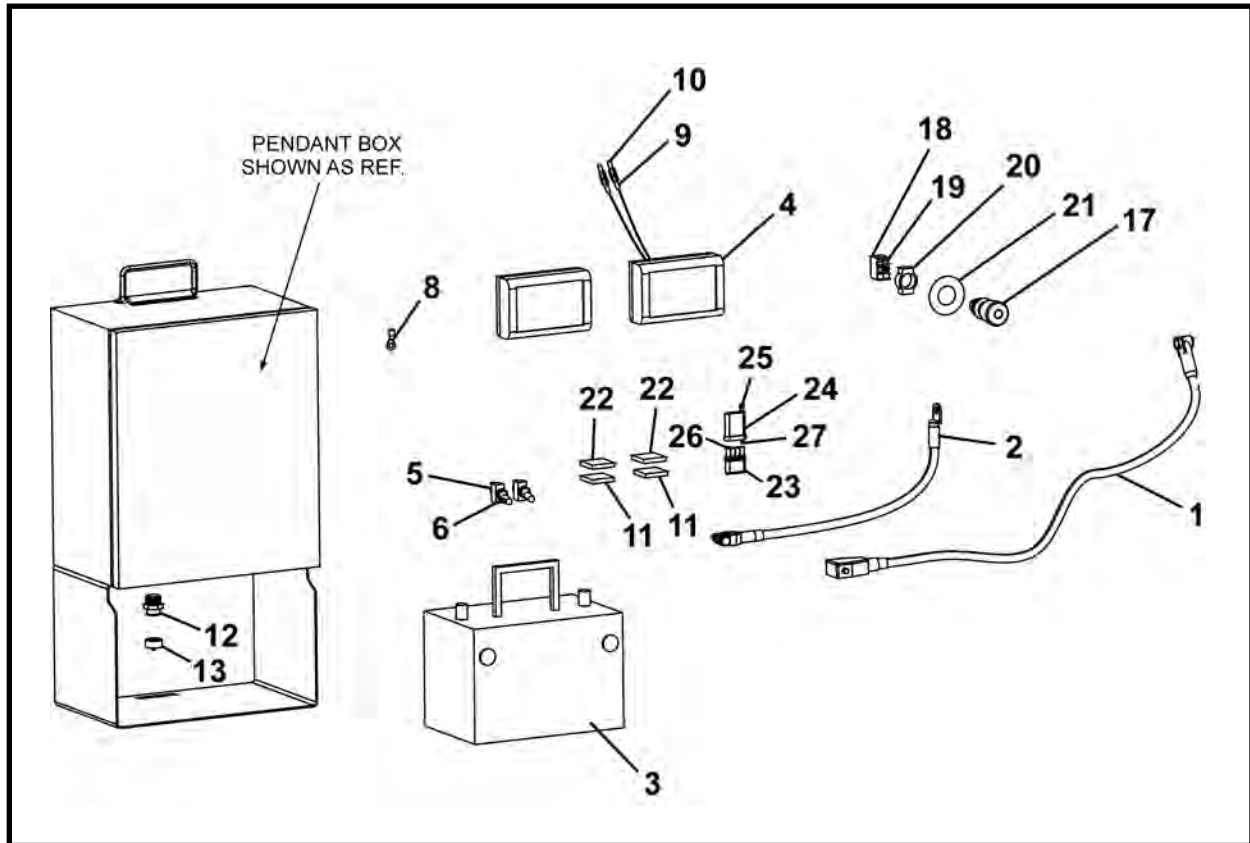
* Refer to Section 3, Structural for parts information.

** Not Shown

A/N - As Needed

P150Q ELECTRICAL ASSEMBLY, A47021A

P150Q (SN FA40035F-06 & After)



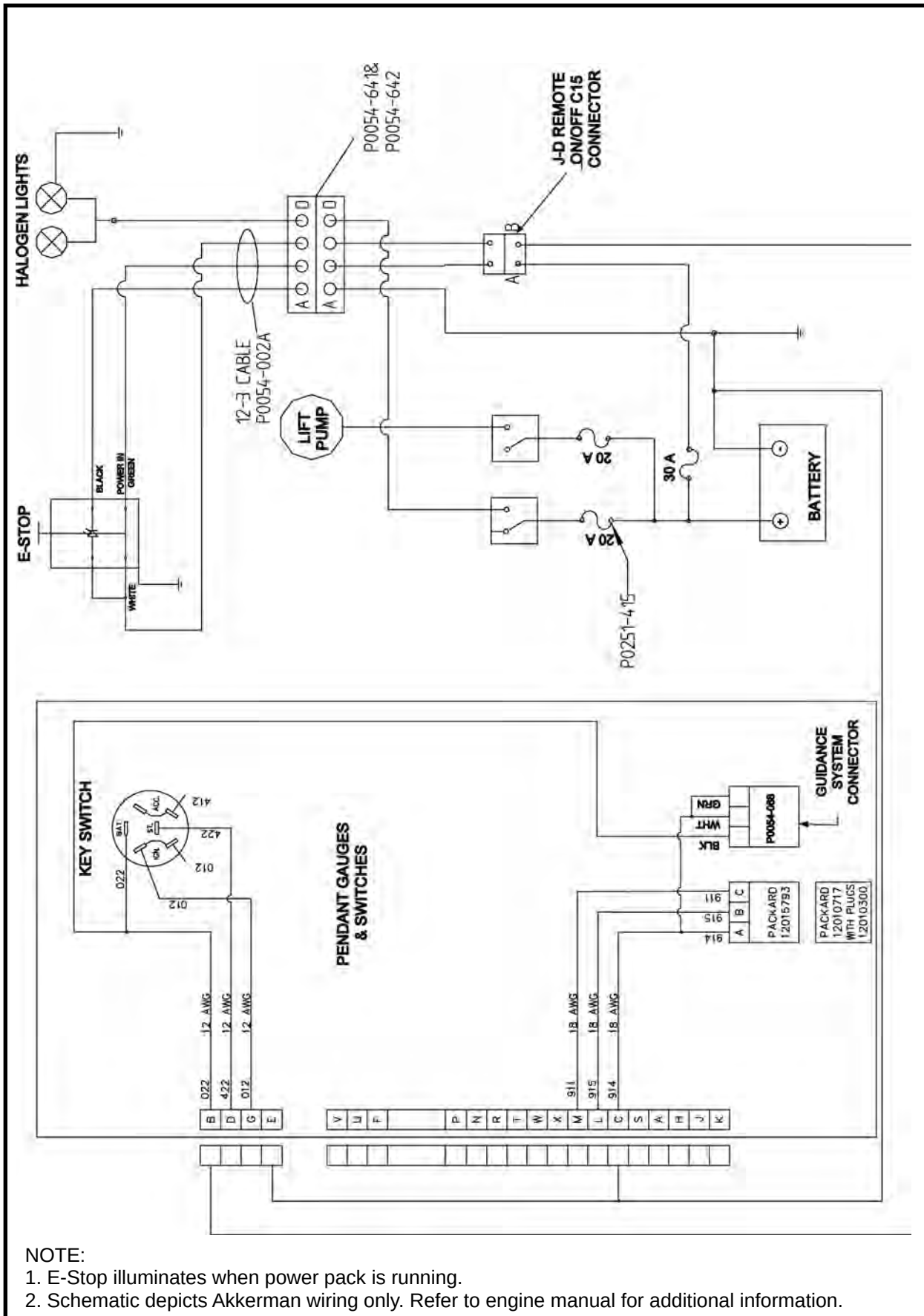
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A47021A	ELECTRICAL ASSEMBLY, P150Q
1	1	A40128A	CABLE, Positive
2	1	A40129A	CABLE, Negative
3	1	P0064-019	BATTERY
4	2	P0053-026	LIGHT, Halogen Flood
5	3	P0056-009	SWITCH, Toggle
6	3	P0056-010	SWITCH, Toggle Boot
7*	108 LI	P0054-002A	CABLE
8	2	P0055-011	TERMINAL, Ring
9	6	P0055-100A	TERMINAL, Male
10	6	P0055-101A	TERMINAL, Female
11	2	P0251-415	HOLDER, Weatherproof Fuse
12	1	NSS	RECEPTACLE, 3 Pin Female
13	1	P0054-090	CAP, Mini-Plex
14*	168 LI	P0054-616	LOOM, Corrugated
15*	4	P0055-128	CLAMP, Insulated 3/4
16*	168 LI	P0054-013	WIRE
17	1	P0310-420F	E-STOP, Push Button Illuminated
18	1	P0251-171	MODULE, LED
19	1	P0056-122F	BLOCK, Contact
20	1	P0310-419F	LATCH, Mounting
21	1	P0310-474F	DECAL, E-Stop
22	2	P0251-414	FUSE, 20A
23	1	P0054-641	CONNECTOR, Weather Pack Male
24	1	P0054-642	CONNECTOR, Weather Pack Female
25	8	P0054-645	SEAL, Weather Pack
26	4	P0054-643	PIN, Weather Pack
27	4	P0054-644	SOCKET, Weather Pack

* Not Shown LI - Linear Inch

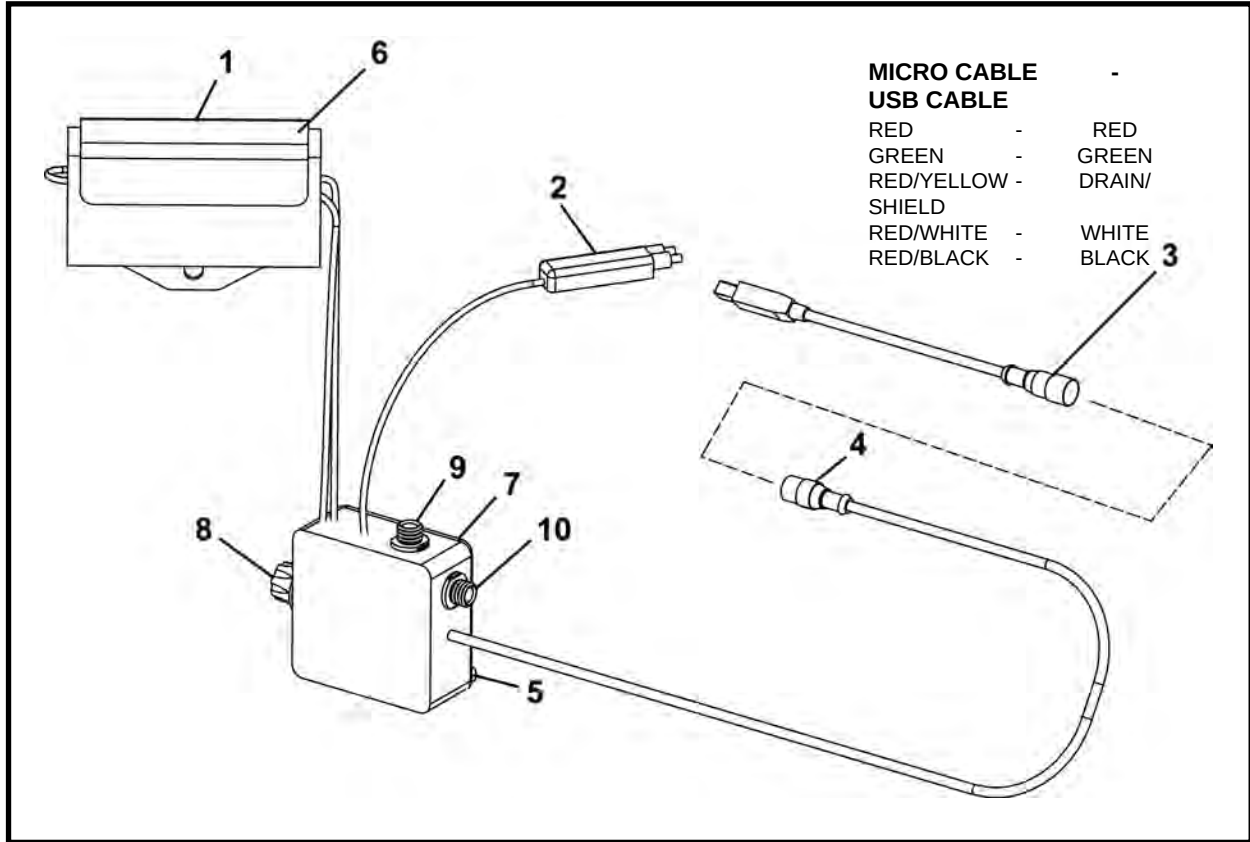
NSS - Not Sold Separately; contact your Akkerman Aftermarket Support representative for factory replacement.

P150Q ELECTRICAL SCHEMATIC, A47021A

P150Q (SN FA40035F-06 & After)



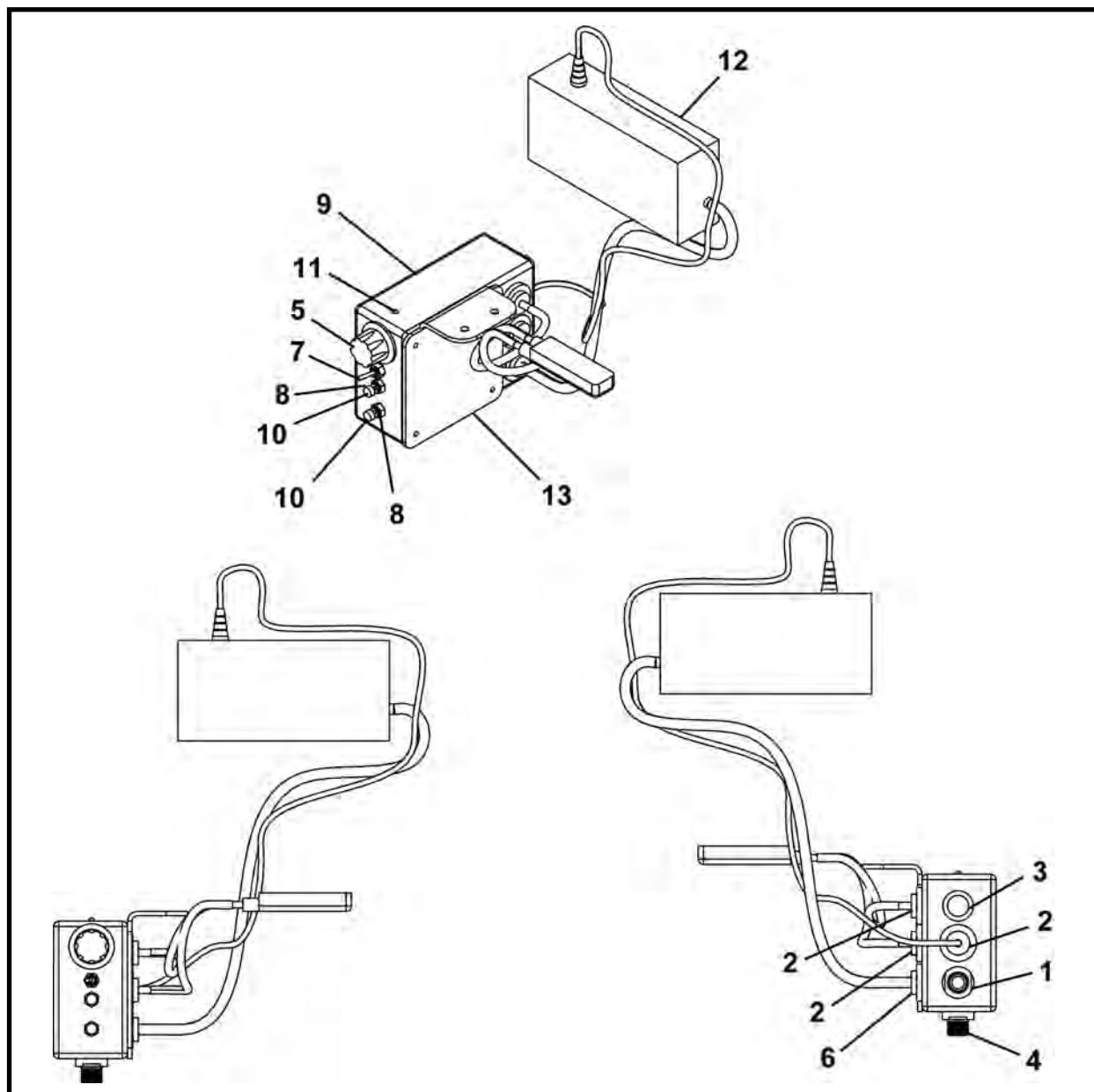
POWER ADAPTER ASSEMBLY, A42498A
GUIDANCE SYSTEM G3 (SN FA42035F-86 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42498A	ASSEMBLY, Power Adapter
1	1	NSS	POWER BRICK
2	1	NSS	CONNECTOR, USB
3	1	P0054-488	CABLE
4	1	NSS	CABLE
5	1	A42050P	MOUNT, Plastic Box
6	1	A42055P	HANGER, Power Adapter
7	1	NSS	BOX, Plastic
8	1	P0310-966	KNOB
9	1	NSS	RECEPTACLE
10	1	NSS	CONNECTOR

NSS - Not Sold Separately

POWER ADAPTER ASSEMBLY, A45640A
GUIDANCE SYSTEM G3 (SN FA42035F-87 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45640A	ASSEMBLY, Power Adapter
1	1	NSS	CONNECTOR
2	3	NSS	RECEPTACLE
3	1	NSS	RECEPTACLE
4	1	NSS	RECEPTACLE
5	1	P0310-966	KNOB
6	1	NSS	RECEPTACLE
7	1	NSS	SWITCH, Toggle
8	1	NSS	SWITCH
9	1	NSS	BOX
10	2	NSS	BUTTON, Black
11	1	NSS	LED, Red
12	1	NSS	POWER BRICK
13	1	A45666P	BRACKET

NSS - Not Sold Separately
gbmpm050044-a45640a_revA

NOTES



Hydraulics

GBM Frame

Latching Frame

308A Latching Frame With SAI Motor & Without Powered Cutter Head Hydraulic Assembly (SN FA40032F-20 & Before), A40174A	2-5
308A Latching Frame With VIS Motor & Without Powered Cutter Head Hydraulic Assembly (SN FA40032F-20 & Before), A40174A	6-9
308A / 339A Latching Frame With VIS Motor & Powered Cutter Head Controls Hydraulic Assembly (308A SN FA40032F-21 & After) & (339A SN FA43500F-4 Thru 6), A43574A	10-13
Multifaster PCH Auger Drive QD, P0100-060	24
Faster Mobile Half Assembly (308A SN FA40032F-21 & After), (339A SN FA43500F-4 Thru 6), A46162A	25
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339A Latching Frame With VIS Motor & Powered Cutter Head Controls Hydraulic Assembly (339A SN FA43500F-7 & After), A43590A	18-19
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240A Single Stage Frame With SAI Motor Hydraulic Assembly (SN FA40027F-55 & Before), A40175A	28-31
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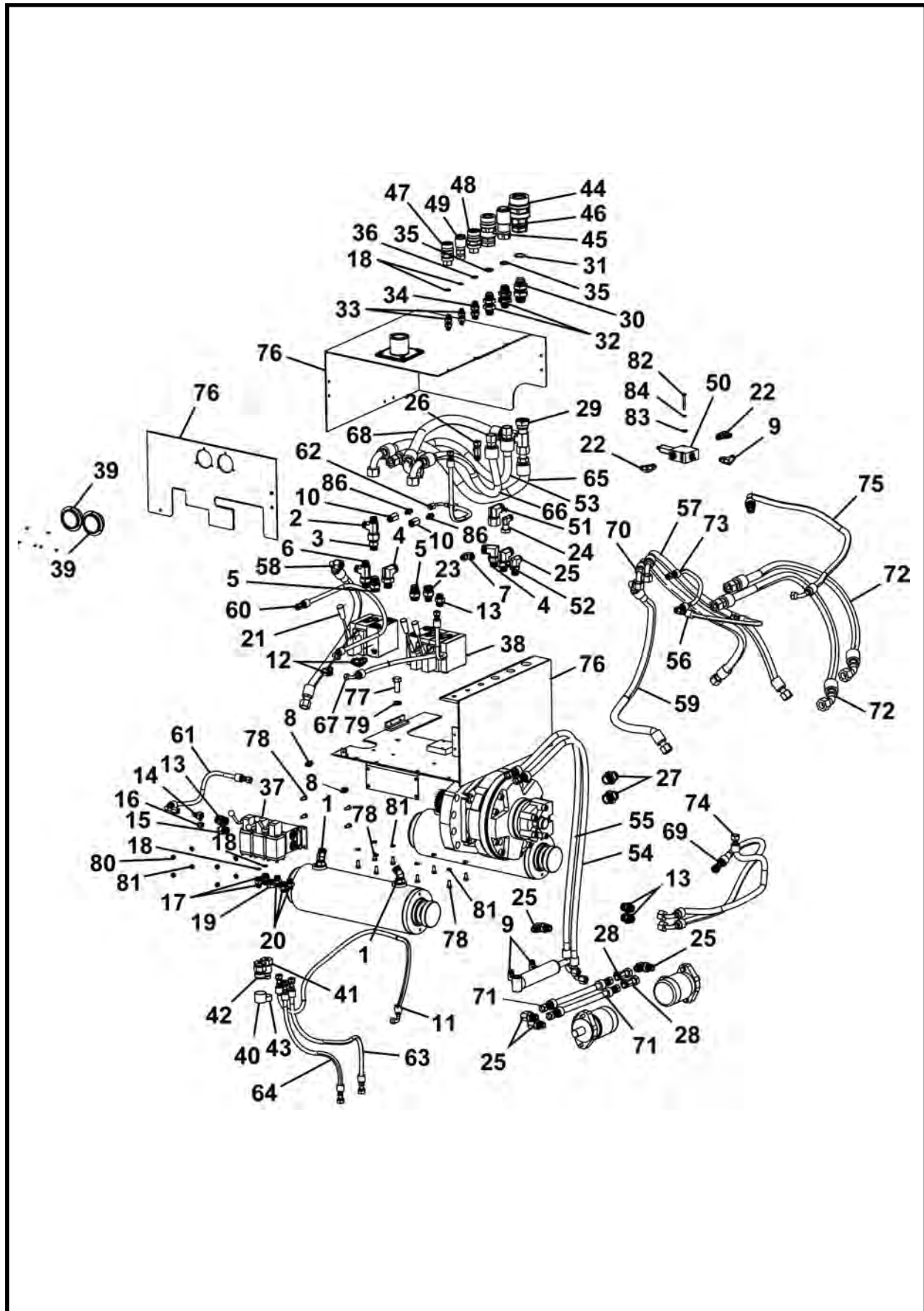
Powered Cutter Head

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PCH 28.5/30.5, A43654A	82-83
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HYDRAULIC ASSEMBLY, A40174A
308A LATCHING FRAME WITH SAI MOTOR & WITHOUT POWERED CUTTER HEAD CONTROLS
308A (SN FA40032F-20 & BEFORE)

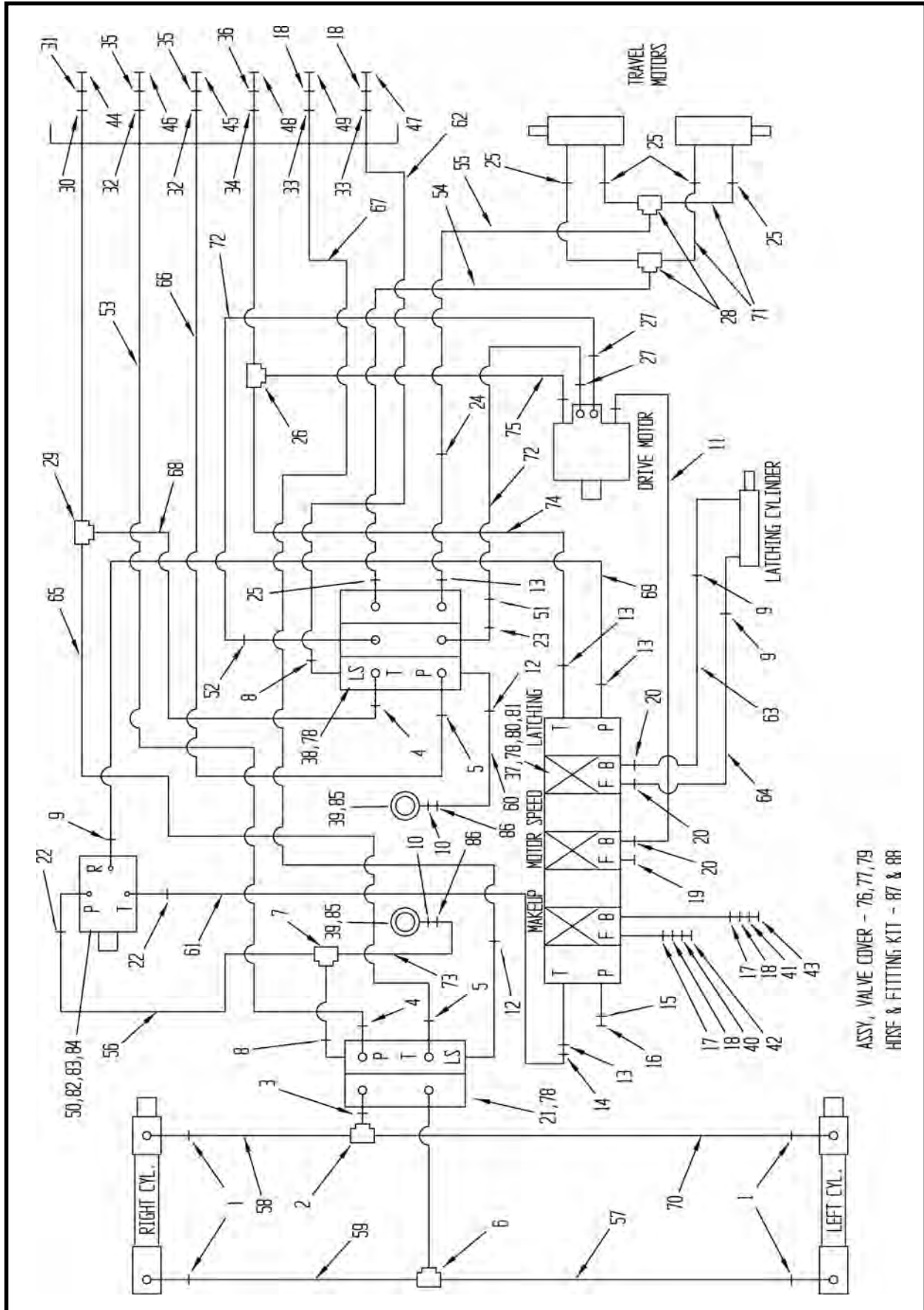


HYDRAULIC ASSEMBLY, A40174A
308A LATCHING FRAME WITH SAI MOTOR & WITHOUT POWERED CUTTER HEAD CONTROLS
308A (SN FA40032F-20 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40174A	HYDRAULIC ASSEMBLY
1**	4	P0300-384	FITTING, 10MFOR-10MB45
2**	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
3**	1	P0300-385	FITTING, 10MFOR-10MB
4**	2	P0300-372	FITTING, 12MFOR-12MB90
5**	2	P0300-329	FITTING, 12MFOR-12MB
6**	1	P0300-423	FITTING, 10MFOR-10MB-10MFOR
7**	1	P0300-312	FITTING, 04MFOR-04FFORX-04MFOR
8**	2	P0300-314	FITTING, 04MFOR-05MB
9**	3	P0300-355	FITTING, 06MFOR-06MB90
10	2	A43043P	ADAPTOR, 4MB-4MB
11*	1	A10360A-044	HOSE ASSEMBLY, 1/4 x 44
12**	2	P0300-429	FITTING, 06MFOR-05MB90
13**	4	P0300-300	FITTING, 08MFOR-10MB
14**	1	P0300-395	FITTING, 08FFOR-04MFOR
15**	1	P0300-257	FITTING, 04MJ-10MB
16**	1	P0300-259	FITTING, 04FJ-CAP
17**	2	P0300-269	FITTING, 06MJ-08MB
18**	4	P0300-333	FITTING, 06OR
19**	1	P0300-193	FITTING, 08MB-PLUG
20**	3	P0300-430	FITTING, 06MFOR-08MB
21***	1	P0302-419	VALVE
22**	2	P0300-311	FITTING, 04MFOR-06MB90
23**	1	P0300-361	FITTING, 12MFOR-10MB
24**	1	P0300-317	FITTING, 08MFOR-08FFORX90
25**	5	P0300-302	FITTING, 08MFOR-10MB90
26**	2	P0300-412	FITTING, 08MJ-08FJX-08MJ
27**	2	P0300-378	FITTING, 12MFOR-16MB
28**	2	P0300-318	FITTING, 08MFOR-08FFORX-08MFOR
29**	1	P0300-426	FITTING, 16MJ-16FJX-16MJ
30**	1	P0300-308	FITTING, 16MJ-16MJBKHD
31**	1	P0300-309	FITTING, 16OR
32**	2	P0300-330	FITTING, 12MJ-12MJBKHD
33**	2	P0300-331	FITTING, 06MJ-04MJBKHD
34**	1	P0300-325	FITTING, 08MJ-04MJBKHD
35**	2	P0300-324	FITTING, 12OR
36**	1	P0300-332	FITTING, 08OR
37***	1	A42461P	VALVE
38***	1	P0302-420	VALVE
39	2	P0301-142	GAUGE 5000 PSI 2.5 7/16 MORB
40	1	P0100-047A	PLUG, Dust
41	1	P0100-046	COUPLER, Male
42	1	P0100-047	COUPLER, Female
43	1	P0100-046A	CAP, Dust
44	1	P0100-034	COUPLER, Quick 1 Female
45	1	P0100-036	COUPLER, Quick 3/4 Female
46	1	P0100-037	COUPLER, Quick 3/4 Male
47	1	P0100-040	COUPLER, 3/8 Female
48	1	P0100-038	COUPLER, 1/2 Female
49	1	P0100-041	COUPLER, 3/8 Male
50***	1	P0302-421A	VALVE, Pressure Reducing

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HYDRAULIC ASSEMBLY, A40174A
308A LATCHING FRAME WITH SAI MOTOR & WITHOUT POWERED CUTTER HEAD CONTROLS
308A (SN FA40032F-20 & BEFORE)



HYDRAULIC ASSEMBLY, A40174A
308A LATCHING FRAME WITH SAI MOTOR & WITHOUT POWERED CUTTER HEAD CONTROLS
308A (SN FA40032F-20 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
51**	1	P0300-424	FITTING, 12MFOR-12FFORX90
52**	1	P0300-425	FITTING, 12MFOR-10MB90
53*	1	A10465A-030	HOSE ASSEMBLY, 3/4 x 30
54*	1	A10309A-058	HOSE ASSEMBLY, 3/8 x 58
55*	1	A10309A-060	HOSE ASSEMBLY, 3/8 x 60
56*	1	A10326A-018	HOSE ASSEMBLY, 1/4 x 18
57*	1	A10334A-023	HOSE ASSEMBLY, 1/2 x 23
58*	1	A10334A-038	HOSE ASSEMBLY, 1/2 x 38
59*	1	A10334A-036	HOSE ASSEMBLY, 1/2 x 36
60*	1	A10314A-018	HOSE ASSEMBLY, 1/4 x 18
61*	1	A10325A-017	HOSE ASSEMBLY, 1/4 x 17
62*	1	A10318A-019	HOSE ASSEMBLY, 1/4 x 19
63*	1	A10364A-034	HOSE ASSEMBLY, 1/4 x 34
64*	1	A10364A-030	HOSE ASSEMBLY, 1/4 x 30
65*	1	A10352A-036	HOSE ASSEMBLY, 3/4 x 36
66*	1	A10466A-033	HOSE ASSEMBLY, 3/4 x 33
67*	1	A10339A-024	HOSE ASSEMBLY, 1/4 x 24
68*	1	A10352A-024	HOSE ASSEMBLY, 3/4 x 24
69*	1	A10366A-038	HOSE ASSEMBLY, 3/8 x 38
70*	1	A10334A-056	HOSE ASSEMBLY, 1/2 x 56
71*	2	A10308A-014	HOSE ASSEMBLY, 3/8 x 14
72*	2	A10467A-033	HOSE ASSEMBLY, 3/4 x 33
73*	1	A10326A-019	HOSE ASSEMBLY, 1/4 x 19
74*	1	A10354A-032	HOSE ASSEMBLY, 3/8 x 32
75*	1	A10361A-033	HOSE ASSEMBLY, 1/2 x 33
76^	1	A42481A	ASSEMBLY, Valve Cover
77	2	P0001-10-006	BOLT, 5/8 UNC x 1.5
78	12	P0001-05-003	BOLT, 5/16 UNC x .75
79	2	P0045-010	WASHER, Lock 5/8
80	4	P0003-05-000	NUT, 5/16
81	12	P0045-005	WASHER, Lock 5/16
82	2	P0001-04-008	BOLT, 1/4 UNC x 2
83	2	P0040-004	WASHER, Flat 1/4
84	2	P0045-004	WASHER, Lock 1/4
85	6	P0017-06-323	SCREW, 6-32 x .5
86**	2	P0300-362	FITTING, 04MFOR-04MB
87	-	A43039A	KIT, Hose
88	-	A43041A	KIT, Fitting

* Items included in item 87, A43039A, Hose Kit

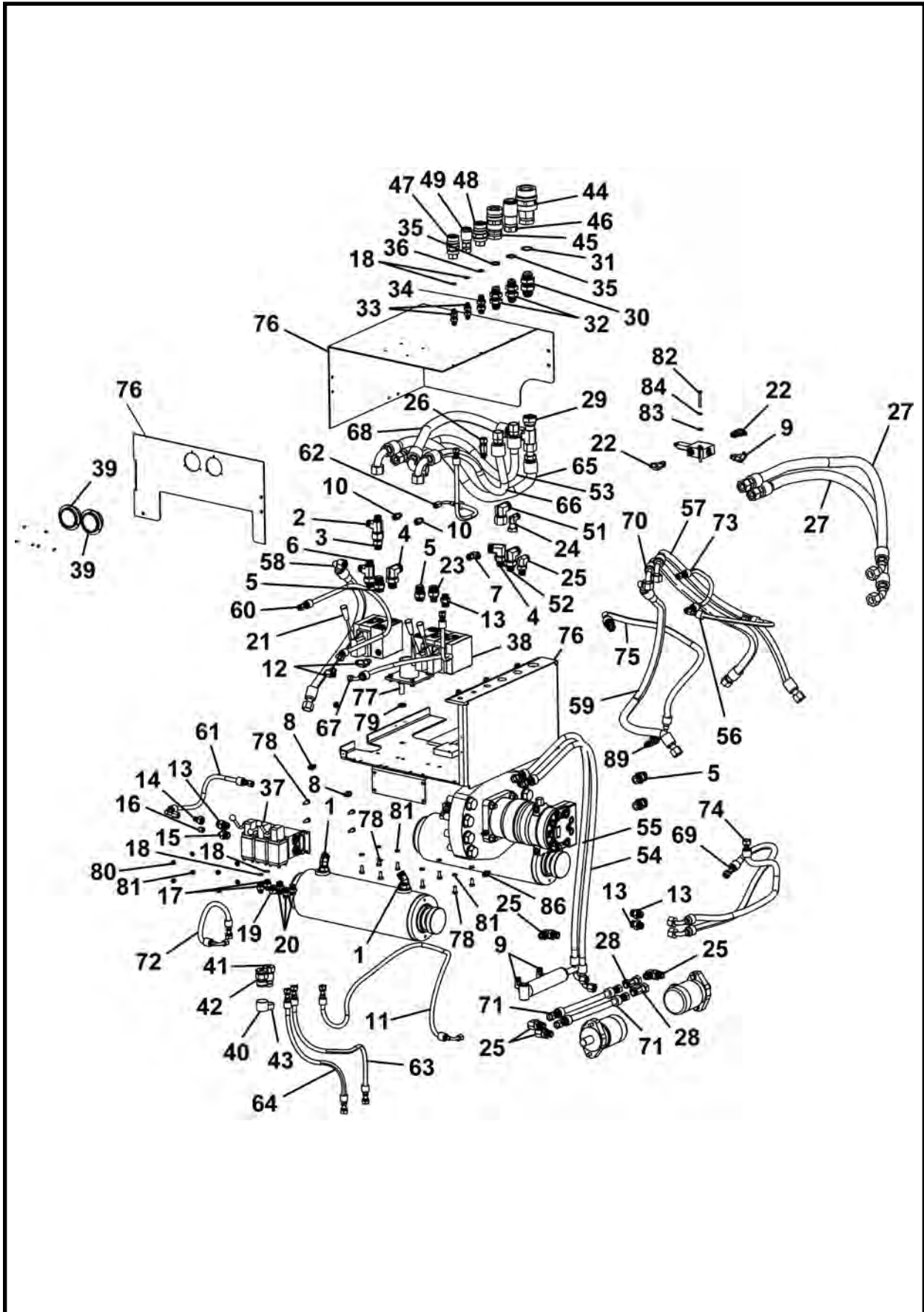
** Items included in item 88, A43041A, Fitting Kit

*** Refer to Section 7, Valves for parts information.

^ Refer to Section 3, Structural for parts information.

NOTE: Drive Motor P0304-160 is replaced by Drive Motor P0304-169. Contact your Akkerman Aftermarket Support representative for the replacement kit.

HYDRAULIC ASSEMBLY, A40174A
308A LATCHING FRAME WITH VIS MOTOR & WITHOUT POWERED CUTTER HEAD CONTROLS
308A (SN FA40032F-20 & BEFORE)

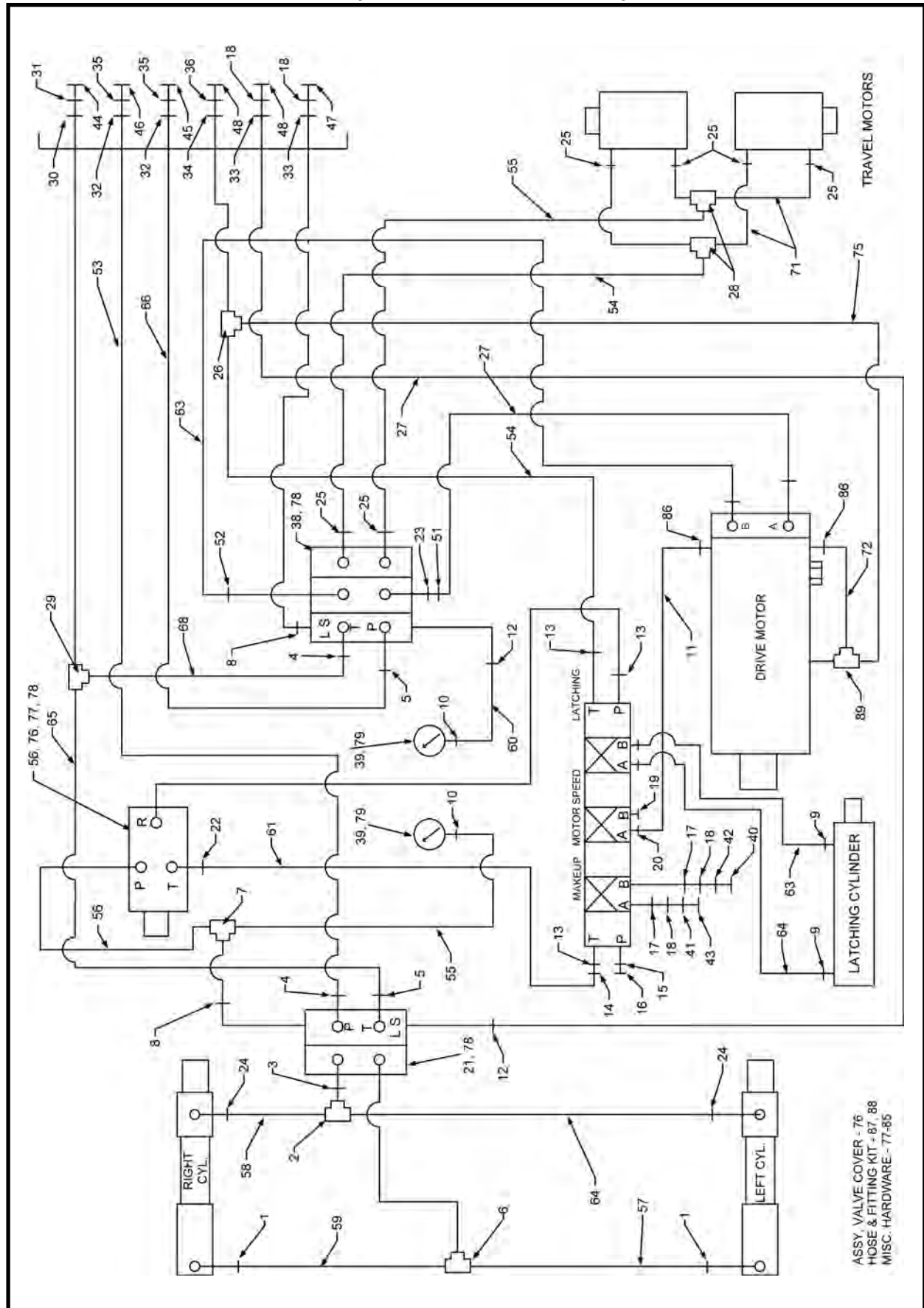


HYDRAULIC ASSEMBLY, A40174A
308A LATCHING FRAME WITH VIS MOTOR & WITHOUT POWERED CUTTER HEAD CONTROLS
308A (SN FA40032F-20 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40174A	HYDRAULIC ASSEMBLY
1**	4	P0300-384	FITTING, 10MFOR-10MB45
2**	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
3**	1	P0300-385	FITTING, 10MFOR-10MB
4**	2	P0300-372	FITTING, 12MFOR-12MB90
5**	4	P0300-329	FITTING, 12MFOR-12MB
6**	1	P0300-423	FITTING, 10MFOR-10MB-10MFOR
7**	1	P0300-312	FITTING, 04MFOR-04FFORX-04MFOR
8**	2	P0300-314	FITTING, 04MFOR-05MB
9**	3	P0300-355	FITTING, 06MFOR-06MB90
10	2	P0300-594	FITTING, 4FB-4MFFOR
11*	1	A10389A-030	HOSE ASSEMBLY, 1/4 x 30
12**	2	P0300-429	FITTING, 06MFOR-05MB90
13**	4	P0300-300	FITTING, 08MFOR-10MB
14**	1	P0300-395	FITTING, 08FFOR-04MFOR
15**	1	P0300-257	FITTING, 04MJ-10MB
16**	1	P0300-259	FITTING, 04FJ-CAP
17**	2	P0300-269	FITTING, 06MJ-08MB
18**	4	P0300-333	FITTING, 06OR
19**	1	P0300-193	FITTING, 08MB-PLUG
20**	3	P0300-430	FITTING, 06MFOR-08MB
21***	1	P0302-419	VALVE
22**	2	P0300-311	FITTING, 04MFOR-06MB90
23**	1	P0300-361	FITTING, 12MFOR-10MB
24**	1	P0300-317	FITTING, 08MFOR-08FFORX90
25**	5	P0300-302	FITTING, 08MFOR-10MB90
26**	2	P0300-412	FITTING, 08MJ-08FJX-08MJ
27**	2	A10467A-033	HOSE ASSEMBLY, 3/4 x 33
28**	2	P0300-318	FITTING, 08MFOR-08FFORX-08MFOR
29**	1	P0300-426	FITTING, 16MJ-16FJX-16MJ
30**	1	P0300-308	FITTING, 16MJ-16MJBKHD
31**	1	P0300-309	FITTING, 16OR
32**	2	P0300-330	FITTING, 12MJ-12MJBKHD
33**	2	P0300-331	FITTING, 06MJ-04MJBKHD
34**	1	P0300-325	FITTING, 08MJ-04MJBKHD
35**	2	P0300-324	FITTING, 12OR
36**	1	P0300-332	FITTING, 08OR
37***	1	A42461P	VALVE
38***	1	P0302-420	VALVE
39	2	P0301-142	GAUGE 5000 PSI 2.5 7/16 MORB
40	1	P0100-047A	PLUG, Dust
41	1	P0100-046	COUPLER, Male
42	1	P0100-047	COUPLER, Female
43	1	P0100-046A	CAP, Dust
44^^	1	P0100-034	COUPLER, Quick 1 Female - (sn FA40032F-16&18 use P0100-099)
45^^	1	P0100-036	COUPLER, Quick 3/4 (1") Female - (sn FA40032F-16&18 use P0100-100)
46^^	1	P0100-037	COUPLER, Quick 3/4 Male - (sn FA40032F-16&18 use P0100-104)
47^^	1	P0100-040	COUPLER, 3/8 Female - (sn FA40032F-16&18 use P0100-110)
48^^	1	P0100-038	COUPLER, 1/2 Female - (sn FA40032F-16&18 use P0100-112)
49^^	1	P0100-041	COUPLER, 3/8 Male - (sn FA40032F-16&18 use P0100-109)
50***	1	P0302-421A	VALVE, Pressure Reducing

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HYDRAULIC ASSEMBLY, A40174A
308A LATCHING FRAME WITH VIS MOTOR & WITHOUT POWERED CUTTER HEAD CONTROLS
308A (SN FA40032F-20 & BEFORE)



HYDRAULIC ASSEMBLY, A40174A
308A LATCHING FRAME WITH VIS MOTOR & WITHOUT POWERED CUTTER HEAD CONTROLS
308A (SN FA40032F-20 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
51**	1	P0300-424	FITTING, 12MFOR-12FFORX90
52**	1	P0300-425	FITTING, 12MFOR-10MB90
53*	1	A10465A-030	HOSE ASSEMBLY, 3/4 x 30
54*	1	A10309A-058	HOSE ASSEMBLY, 3/8 x 58
55*	1	A10309A-060	HOSE ASSEMBLY, 3/8 x 60
56*	1	A10326A-018	HOSE ASSEMBLY, 1/4 x 18
57*	1	A10334A-023	HOSE ASSEMBLY, 1/2 x 23
58*	1	A10334A-038	HOSE ASSEMBLY, 1/2 x 38
59*	1	A10334A-036	HOSE ASSEMBLY, 1/2 x 36
60*	1	A10314A-018	HOSE ASSEMBLY, 1/4 x 18
61*	1	A10325A-017	HOSE ASSEMBLY, 1/4 x 17
62*	1	A10318A-019	HOSE ASSEMBLY, 1/4 x 19
63*	1	A10364A-034	HOSE ASSEMBLY, 1/4 x 34
64*	1	A10364A-030	HOSE ASSEMBLY, 1/4 x 30
65*	1	A10352A-036	HOSE ASSEMBLY, 3/4 x 36
66*	1	A10466A-033	HOSE ASSEMBLY, 3/4 x 33
67*	1	A10339A-024	HOSE ASSEMBLY, 1/4 x 24
68*	1	A10352A-024	HOSE ASSEMBLY, 3/4 x 24
69*	1	A10366A-038	HOSE ASSEMBLY, 3/8 x 38
70*	1	A10334A-056	HOSE ASSEMBLY, 1/2 x 56
71*	2	A10308A-014	HOSE ASSEMBLY, 3/8 x 14
72*	1	A10389A-016	HOSE ASSEMBLY, 1/4 x 16
73*	1	A10326A-019	HOSE ASSEMBLY, 1/4 x 19
74*	1	A10354A-032	HOSE ASSEMBLY, 3/8 x 32
75*	1	A10390A-022	HOSE ASSEMBLY, 3/8 x 22
76^	1	A42481A	ASSEMBLY, Valve Cover
77	2	P0001-10-006	BOLT, 5\8 UNC x 1.5
78	12	P0001-05-003	BOLT, 5\16 UNC x .75
79	2	P0045-010	WASHER, Lock 5/8
80	4	P0003-05-000	NUT, 5/16
81	12	P0045-005	WASHER, Lock 5/16
82	2	P0001-04-008	BOLT, 1/4 UNC x 2
83	2	P0040-004	WASHER, Flat 1/4
84	2	P0045-004	WASHER, Lock 1/4
85	6	P0017-06-323	SCREW, 6-32 x .5
86**	2	P0300-362	FITTING, 04MFOR-04MB
87	-	A43039A	KIT, Hose
88	-	A43041A	KIT, Fitting
89	1	P0300-386	FITTING, 06MFOR-06MB-06MFOR

* Items included in item 87, A43039A, Hose Kit

** Items included in item 88, A43041A, Fitting Kit

*** Refer to Section 7, Valves for parts information.

^ Refer to Section 3, Structural for parts information.

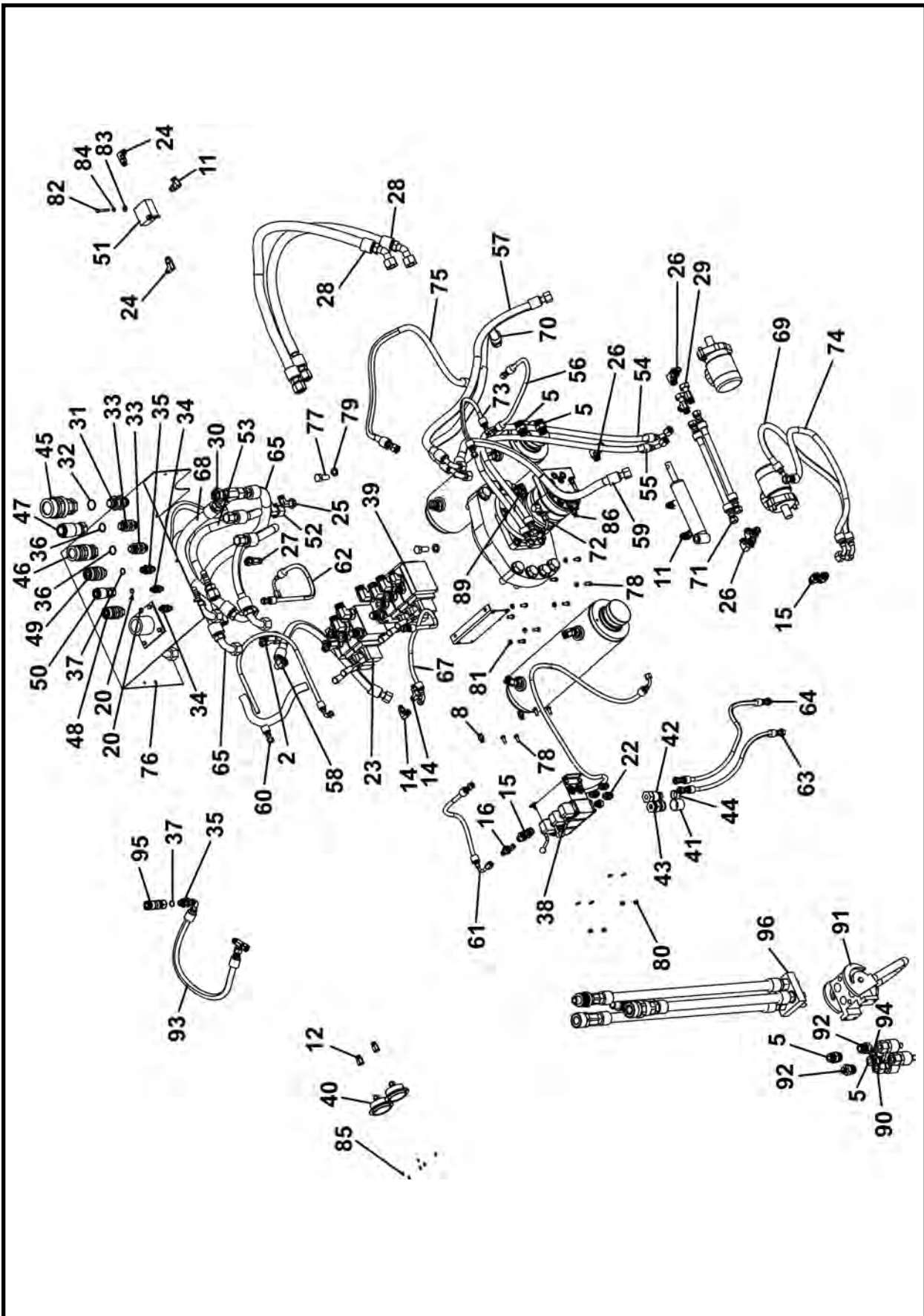
^^ Update for SN FA40032F-16 &18 due to supplier availability, replacing Faster components with Snap Tite.

Note: When replacing Coupler P0100-036 with P0100-100, adapter P0300-587 is required. When replacing couplers P0100-040 and P0100-041 with P0100-110 and P0100-109 respectively, adapter P0300-743 is required.

HYDRAULIC ASSEMBLY, A43574A

308A / 339A LATCHING FRAME WITH VIS MOTOR & POWERED CUTTER HEAD CONTROLS

308A (SN FA40032F-21 & AFTER) & 339A (SN FA43500F-4 THRU 6)



HYDRAULIC ASSEMBLY, A43574A

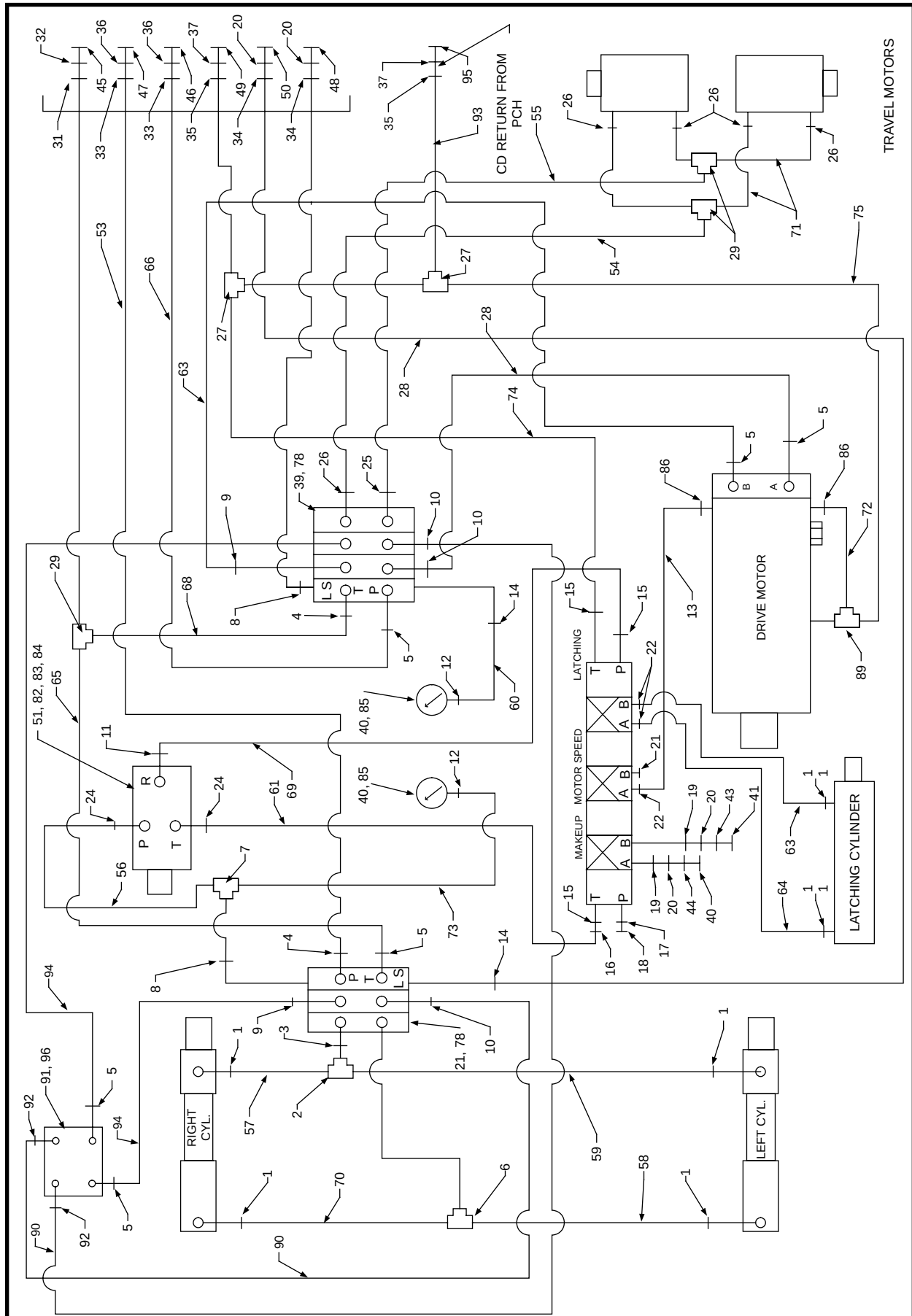
308A / 339A LATCHING FRAME WITH VIS MOTOR & POWERED CUTTER HEAD CONTROLS

308A (SN FA40032F-21 & AFTER) & 339A (SN FA43500F-4 THRU 6)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43574A	HYDRAULIC ASSEMBLY
1**	4	P0300-384	FITTING, 10MFOR-10MB45
2**	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
3**	1	P0300-385	FITTING, 10MFOR-10MB
4**	2	P0300-372	FITTING, 12MFOR-12MB90
5**	4	P0300-329	FITTING, 12MFOR-12MB
6**	1	P0300-423	FITTING, 10MFOR-10MB-10MFOR
7**	1	P0300-312	FITTING, 04MFOR-04FFORX-04MFOR
8**	2	P0300-314	FITTING, 04MFOR-05MB
9**	1	P0300-425	FITTING, 12MFOR-10MB90
10**	1	P0300-361	FITTING, 12MFOR-10MB
11**	3	P0300-355	FITTING, 06MFOR-06MB90
12	2	P0300-594	FITTING, 4FB-4MFFOR
13*	1	A10389A-030	HOSE ASSEMBLY, 1/4 x 30
14**	2	P0300-429	FITTING, 06MFOR-05MB90
15**	4	P0300-300	FITTING, 08MFOR-10MB
16**	1	P0300-395	FITTING, 08FFOR-04MFOR
17**	1	P0300-257	FITTING, 04MJ-10MB
18**	1	P0300-259	FITTING, 04FJ-CAP
19**	2	P0300-269	FITTING, 06MJ-08MB
20**	4	P0300-333	FITTING, 06OR
21**	1	P0300-193	FITTING, 08MB-PLUG
22**	3	P0300-430	FITTING, 06MFOR-08MB
23^	1	P0302-503	VALVE, Two Section
24**	2	P0300-311	FITTING, 04MFOR-06MB90
25**	1	P0300-317	FITTING, 08MFOR-08FFORX90
26**	5	P0300-302	FITTING, 08MFOR-10MB90
27**	1	P0300-412	FITTING, 08MJ-08FJX-08MJ
28*	2	A10467A-033	HOSE ASSEMBLY, 3/4 x 33
29**	2	P0300-318	FITTING, 08MFOR-08FFORX-08MFOR
30**	1	P0300-426	FITTING, 16MJ-16FJX-16MJ
31**	1	P0300-308	FITTING, 16MJ-16MJBKHD
32**	1	P0300-309	FITTING, 16OR
33**	2	P0300-330	FITTING, 12MJ-12MJBKHD
34**	2	P0300-331	FITTING, 06MJ-04MJBKHD
35	1	P0300-325	FITTING, 08MJ-04MJBKHD
36**	2	P0300-324	FITTING, 12OR
37	1	P0300-332	FITTING, 08OR
38^	1	A42461P	VALVE
39^	1	P0302-502	VALVE, Three Section
40	2	P0301-142	GAUGE, 5000 PSI
41	1	P0100-047A	PLUG, Dust
42	1	P0100-046	COUPLER, Male
43	1	P0100-047	COUPLER, Female
44	1	P0100-046A	CAP, Dust
45^^	1	P0100-034	COUPLER, Quick 1 Female - (sn FA40032F-22 use P0100-099)
46^^	1	P0100-036	COUPLER, Quick 3/4 (1") Female - (sn FA40032F-22 use P0100-100)
47^^	1	P0100-037	COUPLER, Quick 3/4 Male - (sn FA40032F-22 use P0100-104)
48^^	1	P0100-040	COUPLER, 3/8 Female - (sn FA40032F-22 use P0100-110)
49^^	1	P0100-038	COUPLER, 1/2 Female - (sn FA40032F-22 use P0100-112)
50^^	1	P0100-041	COUPLER, 3/8 Male - (sn FA40032F-22 use P0100-109)
51^	1	P0302-421A	VALVE, Pressure Reducing

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HYDRAULIC ASSEMBLY, A43574A
308A / 339A LATCHING FRAME WITH VIS MOTOR & POWERED CUTTER HEAD CONTROLS
308A (SN FA40032F-21 & AFTER) & 339A (SN FA43500F-4 THRU 6)



HYDRAULIC ASSEMBLY, A43574A

308A / 339A LATCHING FRAME WITH VIS MOTOR & POWERED CUTTER HEAD CONTROLS

308A (SN FA40032F-21 & AFTER) & 339A (SN FA43500F-4 THRU 6)

ITEM	QTY	PART NO.	DESCRIPTION
52**	1	P0300-424	FITTING, 12MFOR-12FFORX90
53*	1	A10465A-030	HOSE ASSEMBLY, 3/4 x 30
54*	1	A10309A-058	HOSE ASSEMBLY, 3/8 x 58
55*	1	A10309A-060	HOSE ASSEMBLY, 3/8 x 60
56*	1	A10326A-018	HOSE ASSEMBLY, 1/4 x 18
57*	1	A10334A-023	HOSE ASSEMBLY, 1/2 x 23
58*	1	A10334A-038	HOSE ASSEMBLY, 1/2 x 38
59*	1	A10334A-036	HOSE ASSEMBLY, 1/2 x 36
60*	1	A10314A-018	HOSE ASSEMBLY, 1/4 x 18
61*	1	A10325A-017	HOSE ASSEMBLY, 1/4 x 17
62*	1	A10318A-019	HOSE ASSEMBLY, 1/4 x 19
63*	1	A10364A-034	HOSE ASSEMBLY, 1/4 x 34
64*	1	A10364A-030	HOSE ASSEMBLY, 1/4 x 30
65*	1	A10352A-036	HOSE ASSEMBLY, 3/4 x 36
66*	1	A10466A-033	HOSE ASSEMBLY, 3/4 x 33
67*	1	A10339A-024	HOSE ASSEMBLY, 1/4 x 24
68*	1	A10488A-022	HOSE ASSEMBLY, 3/4 x 22
69*	1	A10366A-038	HOSE ASSEMBLY, 3/8 x 38
70*	1	A10334A-056	HOSE ASSEMBLY, 1/2 x 56
71*	2	A10308A-014	HOSE ASSEMBLY, 3/8 x 14
72*	1	A10338A-016	HOSE ASSEMBLY, 1/4 x 16
73*	1	A10326A-019	HOSE ASSEMBLY, 1/4 x 19
74*	1	A10354A-032	HOSE ASSEMBLY, 3/8 x 32
75*	1	A10390A-022	HOSE ASSEMBLY, 3/8 x 22
76^^	1	A42481A	ASSEMBLY, Valve Cover
77	2	P0001-10-006	BOLT, Hex 5/8 UNC x 1.5
78	12	P0001-05-003	BOLT, Hex 5/16 UNC x .75
79	2	P0045-010	WASHER, Lock 5/8
80	4	P0003-05-000	NUT, 5/16
81	12	P0045-005	WASHER, Lock 5/16
82	2	P0001-04-008	BOLT, Hex 1/4 UNC x 2
83	2	P0040-004	WASHER, Flat 1/4
84	2	P0045-004	WASHER, Lock 1/4
85	6	P0017-06-323	SCREW, 6-32 x .5
86**	2	P0300-362	FITTING, 04MFOR-04MB
87	-	A43039A	KIT, Hose
88	-	A43041A	KIT, Fitting
89**	1	P0300-386	FITTING, 06MFOR-06MB-06MFOR
90	2	A10468A-042	HOSE ASSEMBLY, 3/4 x 42
91***	1	P0100-060	MULTIFASTER
92	2	P0300-478	FITTING, 12MFOR-08MB
93	1	A10361A-033	HOSE ASSEMBLY, 1/2 x 33
94	2	A10464A-042	HOSE ASSEMBLY, 3/4 x 42
95	1	P0100-088	COUPLER, Quick Female
96***	1	A46162A	ASSEMBLY, Faster Mobile Half

* Items included in item 87, A43039A, Hose Kit

** Items included in item 88, A43041A, Fitting Kit

*** Refer to this section for parts information.

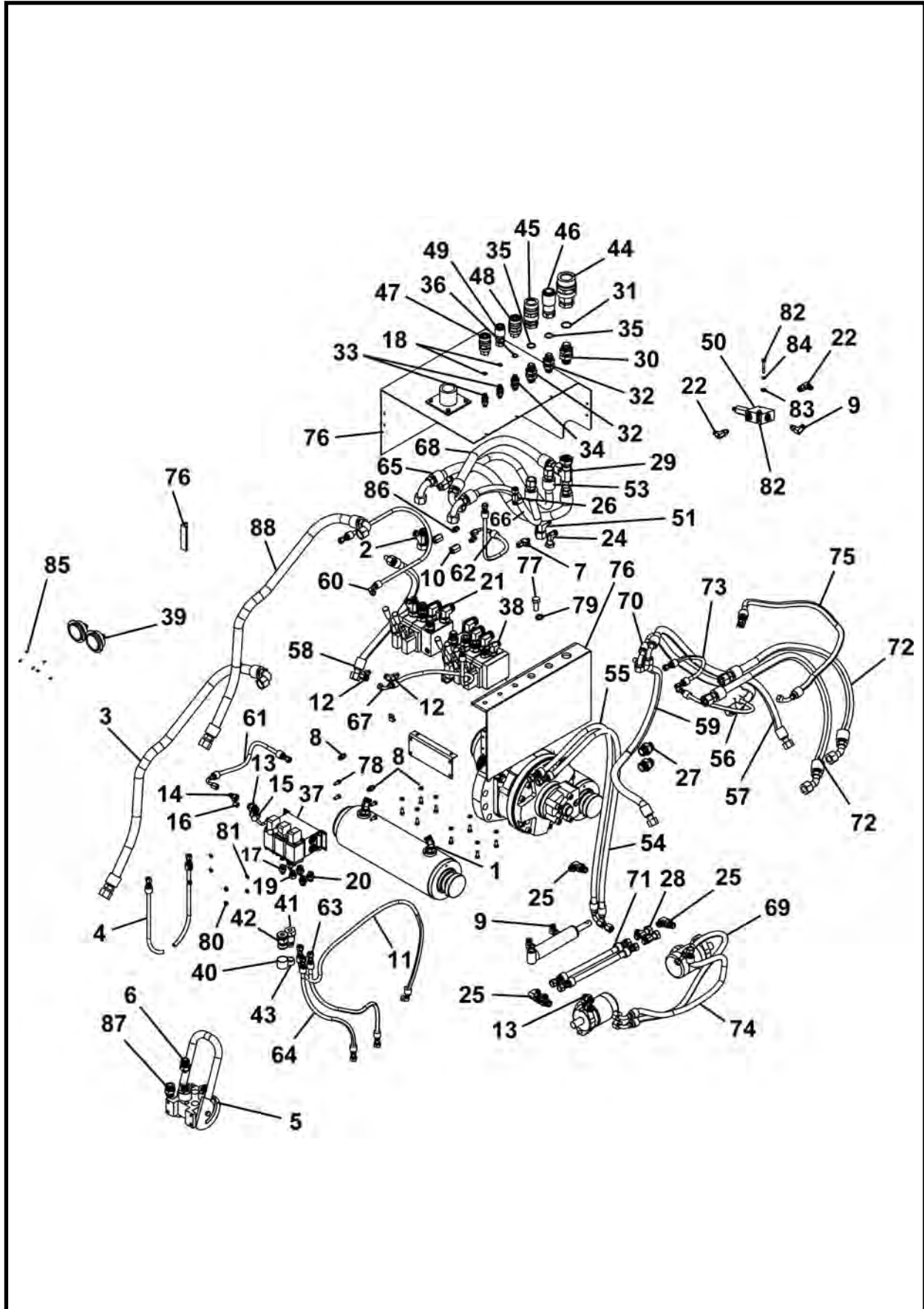
^ Refer to Section 7, Valves for parts information.

^^ Refer to Section 3, Structural for parts information.

^^^ Update for SN FA40032F-22 due to supplier availability, replacing Faster components with Snap Tite.

Note: When replacing Coupler P0100-036 with P0100-100, adapter P0300-587 is required. When replacing couplers P0100-040 and P0100-041 with P0100-110 and P0100-109 respectively, adapter P0300-743 is required.

HYDRAULIC ASSEMBLY, A43574A
339A LATCHING FRAME WITH SAI MOTOR & POWERED CUTTER HEAD CONTROLS
339A (SN FA43500F-1 THRU 3)

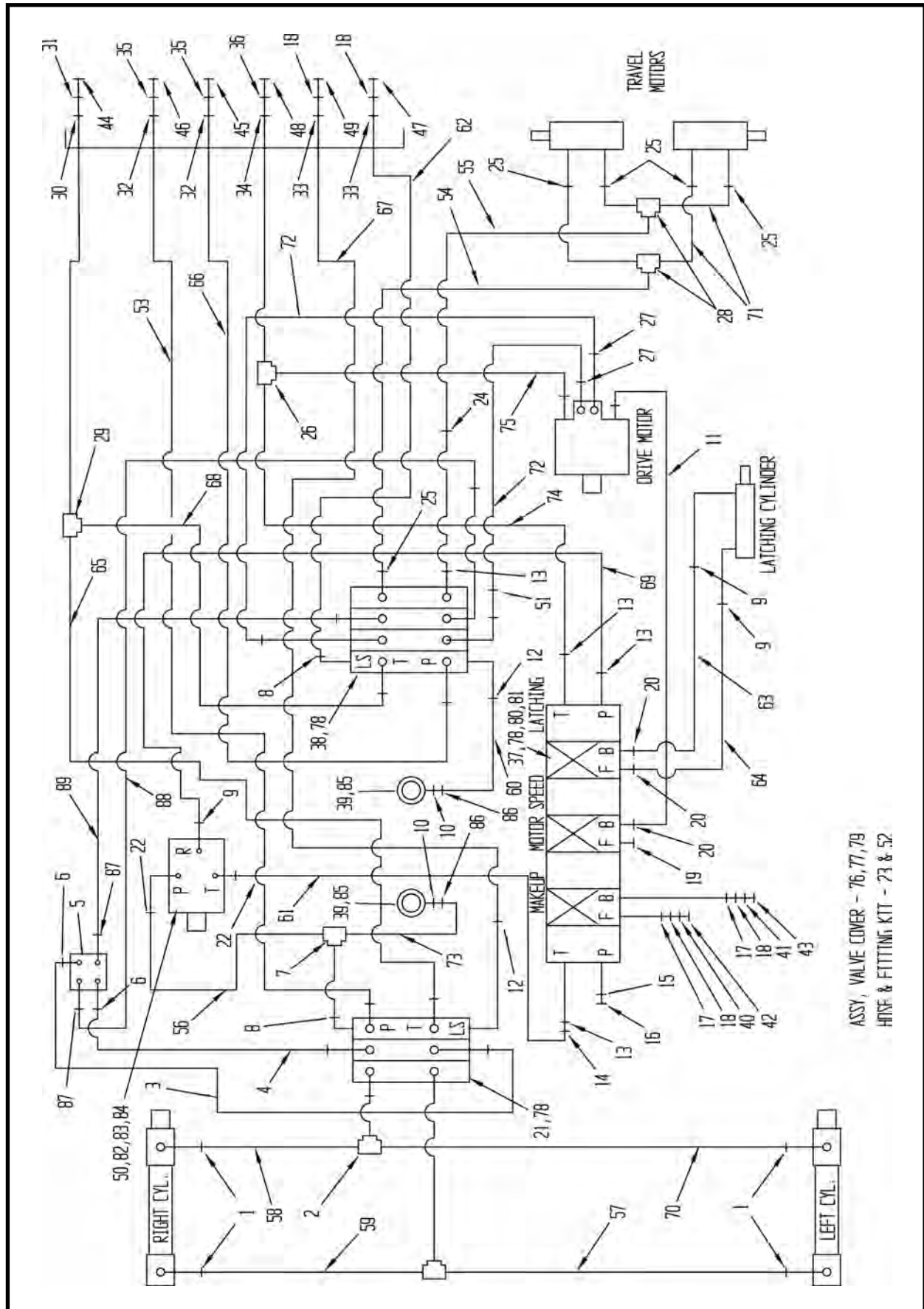


HYDRAULIC ASSEMBLY, A43574A
339A LATCHING FRAME WITH SAI MOTOR & POWERED CUTTER HEAD CONTROLS
339A (SN FA43500F-1 THRU 3)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43574A	HYDRAULIC ASSEMBLY
1**	4	P0300-384	FITTING, 10MFOR-10MB45
2**	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
3	1	A10468A-042	HOSE ASSEMBLY, 3/4 x 42
4	1	A10464A-035	HOSE ASSEMBLY, 3/4 x 35
5***	1	P0100-060	MULTIFASTER
6	2	P0300-478	FITTING, 12MFOR-08MB
7**	1	P0300-312	FITTING, 04MFOR-04FFORX-04MFOR
8**	2	P0300-314	FITTING, 04MFOR-05MB
9**	3	P0300-355	FITTING, 06MFOR-06MB90
10	2	A43043P	ADAPTOR, 4MB-4MB
11*	1	A10360A-044	HOSE ASSEMBLY, 1/4 x 44
12**	2	P0300-429	FITTING, 06MFOR-05MB90
13**	4	P0300-300	FITTING, 08MFOR-10MB
14**	1	P0300-395	FITTING, 08FFOR-04MFOR
15**	1	P0300-257	FITTING, 04MJ-10MB
16**	1	P0300-259	FITTING, 04FJ-CAP
17**	2	P0300-269	FITTING, 06MJ-08MB
18**	4	P0300-333	FITTING, 06OR
19**	1	P0300-193	FITTING, 08MB-PLUG
20**	3	P0300-430	FITTING, 06MFOR-08MB
21^	1	P0302-503	VALVE, Two Section
22**	2	P0300-311	FITTING, 04MFOR-06MB90
23	-	A43039A	KIT, Hose
24**	1	P0300-317	FITTING, 08MFOR-08FFORX90
25**	5	P0300-302	FITTING, 08MFOR-10MB90
26**	2	P0300-412	FITTING, 08MJ-08FJX-08MJ
27**	2	P0300-378	FITTING, 12MFOR-16MB
28**	2	P0300-318	FITTING, 08MFOR-08FFORX-08MFOR
29**	1	P0300-426	FITTING, 16MJ-16FJX-16MJ
30**	1	P0300-308	FITTING, 16MJ-16MJBKHD
31**	1	P0300-309	FITTING, 16OR
32**	2	P0300-330	FITTING, 12MJ-12MJBKHD
33**	2	P0300-331	FITTING, 06MJ-04MJBKHD
34**	1	P0300-325	FITTING, 08MJ-04MJBKHD
35**	2	P0300-324	FITTING, 12OR
36**	1	P0300-332	FITTING, 08OR
37^	1	A42461P	VALVE
38^	1	P0302-502	VALVE, Three Section
39	2	P0301-142	GAUGE 5000 PSI 2.5 7/16 MORB
40	1	P0100-047A	PLUG, Dust
41	1	P0100-046	COUPLER, Male
42	1	P0100-047	COUPLER, Female
43	1	P0100-046A	CAP, Dust
44	1	P0100-034	COUPLER, Quick 1 Female
45	1	P0100-036	COUPLER, Quick 3/4 Female
46	1	P0100-037	COUPLER, Quick 3/4 Male
47	1	P0100-040	COUPLER, 3/8 Female
48	1	P0100-038	COUPLER, 1/2 Female
49	1	P0100-041	COUPLER, 3/8 Male
50^	1	P0302-421A	VALVE, Pressure Reducing

(continued on next page)

HYDRAULIC ASSEMBLY, A43574A
339A LATCHING FRAME WITH SAI MOTOR & POWERED CUTTER HEAD CONTROLS
339A (SN FA43500F-1 THRU 3)



HYDRAULIC ASSEMBLY, A43574A
339A LATCHING FRAME WITH SAI MOTOR & POWERED CUTTER HEAD CONTROLS
339A (SN FA43500F-1 THRU 3)

ITEM	QTY	PART NO.	DESCRIPTION
51**	1	P0300-424	FITTING, 12MFOR-12FFORX90
52	-	A43041A	KIT, Fitting
53*	1	A10465A-030	HOSE ASSEMBLY, 3/4 x 30
54*	1	A10309A-058	HOSE ASSEMBLY, 3/8 x 58
55*	1	A10309A-060	HOSE ASSEMBLY, 3/8 x 60
56*	1	A10326A-018	HOSE ASSEMBLY, 1/4 x 18
57*	1	A10334A-023	HOSE ASSEMBLY, 1/2 x 23
58*	1	A10334A-038	HOSE ASSEMBLY, 1/2 x 38
59*	1	A10334A-036	HOSE ASSEMBLY, 1/2 x 36
60*	1	A10314A-018	HOSE ASSEMBLY, 1/4 x 18
61*	1	A10325A-017	HOSE ASSEMBLY, 1/4 x 17
62*	1	A10318A-019	HOSE ASSEMBLY, 1/4 x 19
63	1	A10364A-040	HOSE ASSEMBLY, 1/4 x 40
64*	1	A10364A-034	HOSE ASSEMBLY, 1/4 x 34
65*	1	A10352A-036	HOSE ASSEMBLY, 3/4 x 36
66*	1	A10466A-033	HOSE ASSEMBLY, 3/4 x 33
67*	1	A10339A-024	HOSE ASSEMBLY, 1/4 x 24
68*	1	A10352A-024	HOSE ASSEMBLY, 3/4 x 24
69*	1	A10366A-038	HOSE ASSEMBLY, 3/8 x 38
70*	1	A10334A-056	HOSE ASSEMBLY, 1/2 x 56
71	2	A10308A-018	HOSE ASSEMBLY, 3/8 x 18
72*	2	A10467A-033	HOSE ASSEMBLY, 3/4 x 33
73*	1	A10326A-019	HOSE ASSEMBLY, 1/4 x 19
74*	1	A10354A-032	HOSE ASSEMBLY, 3/8 x 32
75*	1	A10361A-033	HOSE ASSEMBLY, 1/2 x 33
76^^	1	A42481A	ASSEMBLY, Valve Cover
77	2	P0001-10-006	BOLT, 5/8 UNC x 1.5
78	12	P0001-05-003	BOLT, 5/16 UNC x .75
79	2	P0045-010	WASHER, Lock 5/8
80	4	P0003-05-000	NUT, 5/16
81	12	P0045-005	WASHER, Lock 5/16
82	2	P0001-04-008	BOLT, 1/4 UNC x 2
83	2	P0040-004	WASHER, Flat 1/4
84	2	P0045-004	WASHER, Lock 1/4
85	6	P0017-06-323	SCREW, 6-32 x .5
86**	2	P0300-362	FITTING, 04MFOR-04MB
87**	2	P0300-329	FITTING, 12MFOR-12MB
88	1	A10468A-042	HOSE ASSEMBLY, 3/4 x 42
89	1	A10464A-031	HOSE ASSEMBLY, 3/4 x 31

* Items included in item 23, A43039A, Hose Kit

** Items included in item 52, A43041A, Fitting Kit

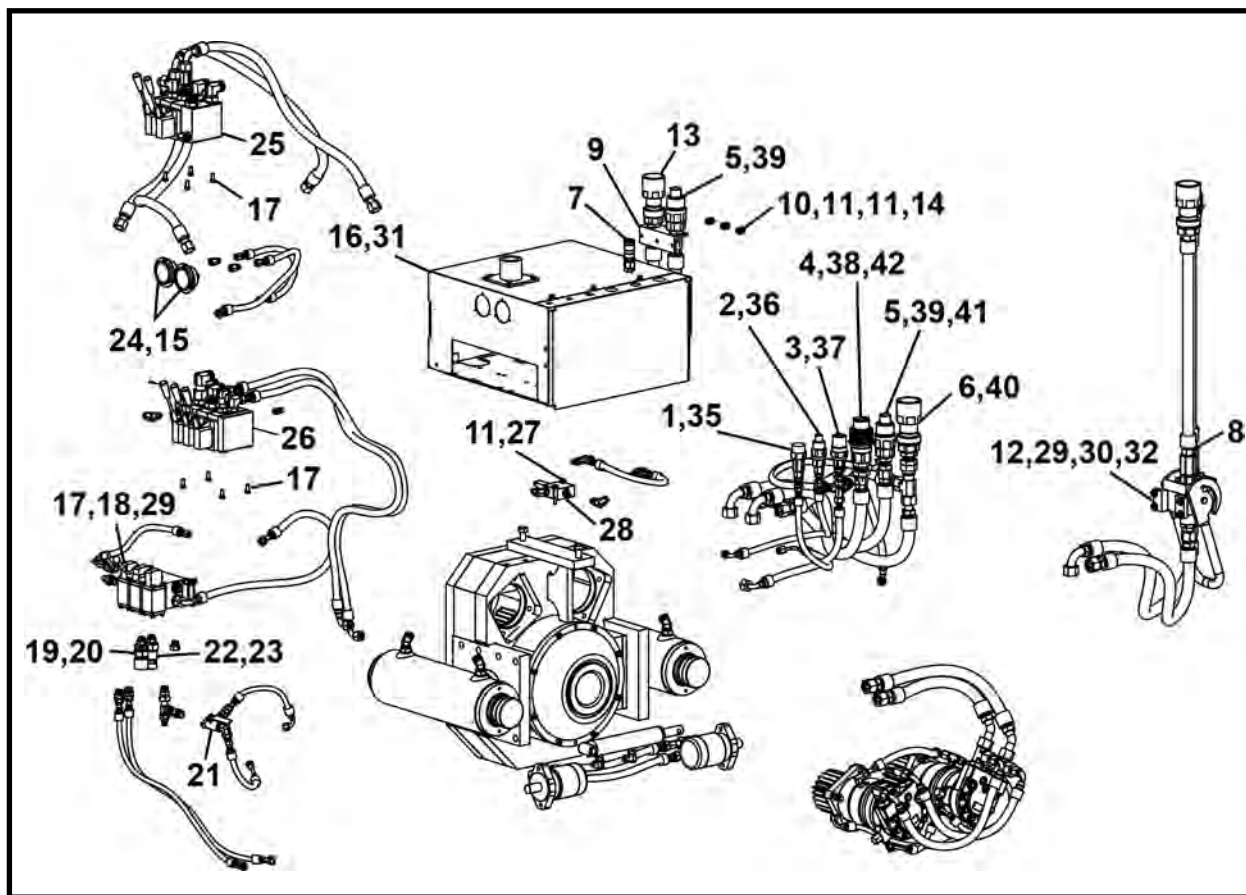
*** Refer to this section for parts information.

^ Refer to Section 7, Valves for parts information.

^^ Refer to Section 3, Structural for parts information.

NOTE: Drive Motor P0304-160 is replaced by Drive Motor P0304-169. Contact your Akkerman aftermarket Support representative for the replacement kit.

HYDRAULIC ASSEMBLY, A43590A
339A LATCHING FRAME WITH VIS MOTOR & POWERED CUTTER HEAD CONTROLS
339A (SN FA43500F-7 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43590A	HYDRAULICS ASSEMBLY
1	1	P0100-110	COUPLER, 3/8" QD
2	1	P0100-109	COUPLER, 3/8" QD
3	1	P0100-112	COUPLER, 1/2" QD
4	1	P0100-100	COUPLER, MALE 1"
5	2	P0100-104	COUPLER, Male 3/4"
6	1	P0100-099	COUPLER, Female 1"
7	1	P0100-088	COUPLER, Female
8*	1	A43583A	ASSEMBLY, Faster Mobile Half
9	1	A43584P	MOUNT, PCH Cutterbit Hose
10	3	P0001-04-002	BOLT, Hex 1/4 UNC x .5
11	8	P0040-004	WASHER, Hardened Flat 1/4
12	4	P0040-005	WASHER, Hardened Flat 5/16
13	1	P0100-103	COUPLER, Female 3/4"
14	3	P0003-04-000	NUT, Hex 1/4
15	2	P0301-142	GAUGE, 5000 PSI
16	2	P0001-10-006	BOLT, Hex 5/8 UNC x 1.5
17	12	P0001-05-003	BOLT, Hex 5/16 x .75
18	1	A42461P	VALVE, Three Section
19	1	P0100-047	COUPLER, Female
20	1	P0100-047A	PLUG, Dust
21	1	P0302-512	VALVE, Ball 3-Way
22	1	P0100-046	COUPLER, Male
23	1	P0100-046A	CAP, Dust

HYDRAULIC ASSEMBLY, A43590A
339A LATCHING FRAME WITH VIS MOTOR & POWERED CUTTER HEAD CONTROLS
339A (SN FA43500F-7 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
24	6	P0017-06-323	SCREW, Machine 6-32 x .5
25^	1	P0302-503	VALVE, Two Section
26^	1	P0302-502	VALVE, Three Section
27	2	P0001-04-008	BOLT, Hex 1/4 UNC x 2
28^	1	P0302-421A	VALVE, Reducing
29	8	P0003-05-000	NUT, Hex 5/16
30	1	P0100-053	MULTIFASTER, 3/4
31***	1	A42481A	ASSEMBLY, Valve Cover
32	4	P0031-05-003	SCREW, Socket Head Cap 5/16 UNC x .75
33**	1	A40767A	KIT, Hose
34**	1	A40768A	KIT, Fitting
35	1	P0100-110A	PLUG, Plastic
36	1	P0100-109A	CAP, Plastic
37	1	P0100-112A	PLUG, Aluminum Protective
38	1	P0100-100A	CAP, Aluminum Protective
39	2	P0100-104A	CAP, Aluminum Protective
40	1	P0100-099A	PLUG, Aluminum
41	2	P0220-339	SHRINK TUBE, Blue
42	2	P0220-338	SHRINK TUBE, Red

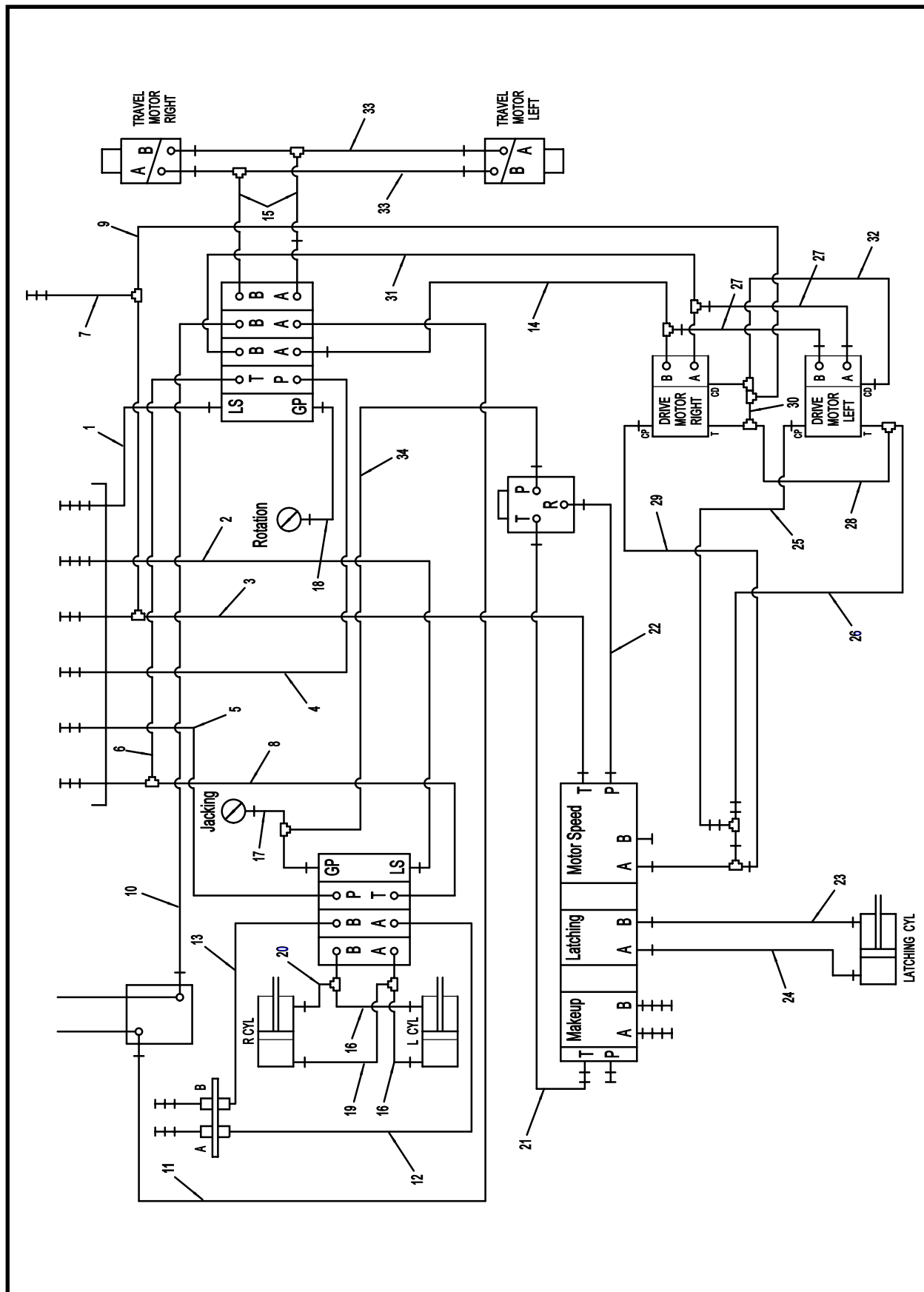
* Refer to this section for parts information.

** Not Shown, refer to this section for parts information.

*** Refer to Section 3, Structural for parts information.

^ Refer to Section 7, Valves for parts information.

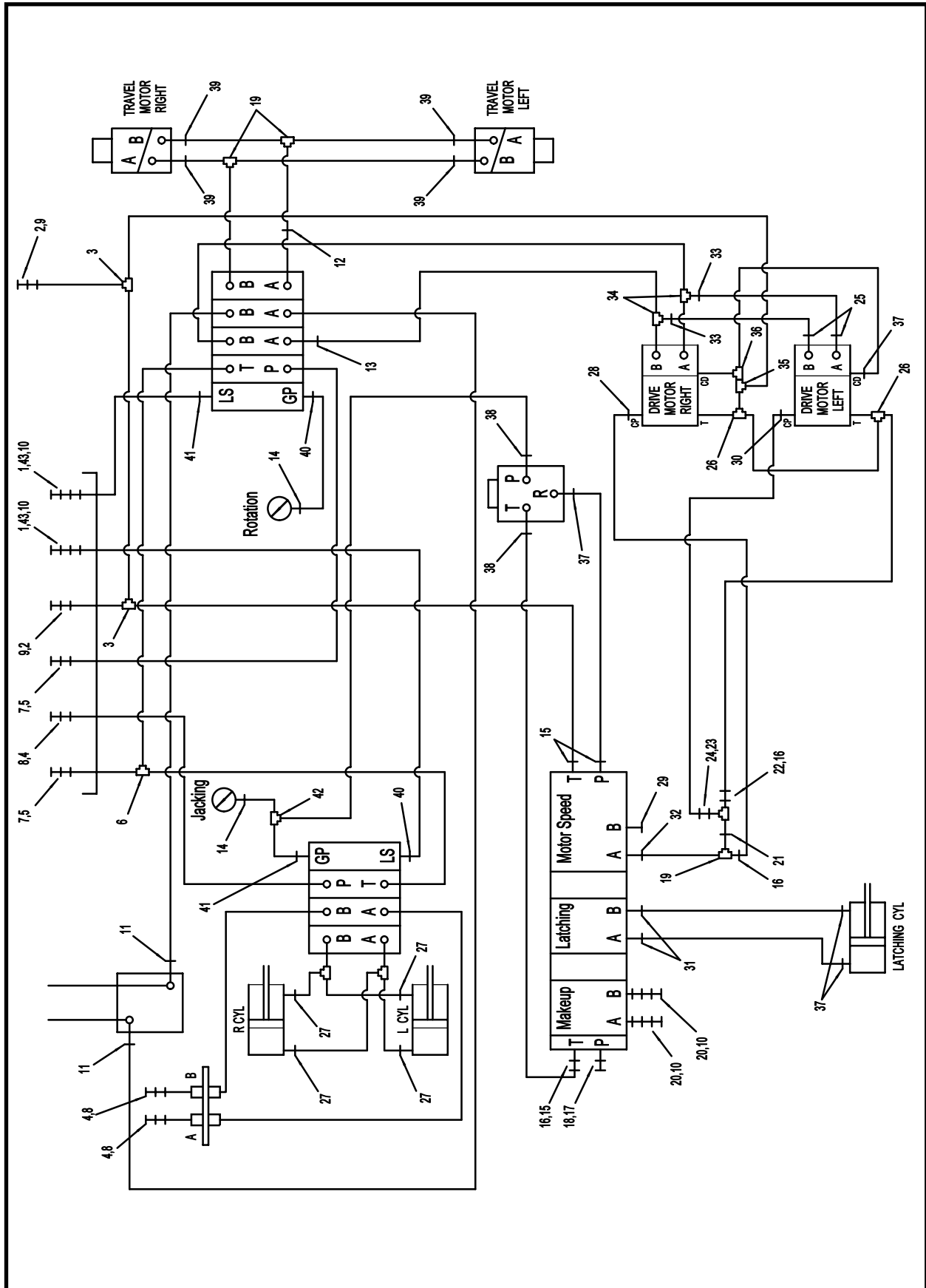
HOSE KIT, A40767A
339A (SN FA43500F-7 & AFTER)



HOSE KIT, A40767A
339A (SN FA43500F-7 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40767A	HYDRAULICS ASSEMBLY
1	1	A10318A-020	HOSE ASSEMBLY, 1/4 x 20
3	1	A10354A-024	HOSE ASSEMBLY, 3/8 x 24
4	1	A09828A-033	HOSE ASSEMBLY, 3/4 x 33
5	1	A10465A-030	HOSE ASSEMBLY, 3/4 x 30
6	1	A10488A-020	HOSE ASSEMBLY, 3/4 x 20
7	1	A10361A-033	HOSE ASSEMBLY, 1/2 x 33
8	1	A10352A-036	HOSE ASSEMBLY, 3/4 x 36
9	1	A10390A-023	HOSE ASSEMBLY, 3/8 x 23
10	1	A10464A-039	HOSE ASSEMBLY, 3/4 x 39
11	1	A10468A-038	HOSE ASSEMBLY, 3/4 x 38
12	1	A10466A-040	HOSE ASSEMBLY, 3/4 x 40
13	1	A10465A-036	HOSE ASSEMBLY, 3/4 x 36
14	1	A10467A-027	HOSE ASSEMBLY, 3/4 x 27
15	2	A10309A-059	HOSE ASSEMBLY, 3/8 x 59
16	2	A10334A-036	HOSE ASSEMBLY, 1/2 x 36
17	1	A10326A-020	HOSE ASSEMBLY, 1/4 x 20
18	1	A10314A-018	HOSE ASSEMBLY, 1/4 x 18
19	1	A10334A-023	HOSE ASSEMBLY, 1/2 x 23
20	1	A10334A-034	HOSE ASSEMBLY, 1/2 x 34
21	1	A10325A-017	HOSE ASSEMBLY, 1/4 x 17
22	1	A10366A-038	HOSE ASSEMBLY, 3/8 x 38
23	1	A10364A-036	HOSE ASSEMBLY, 1/4 x 36
24	1	A10364A-034	HOSE ASSEMBLY, 1/4 x 34
25	1	A10338A-015	HOSE ASSEMBLY, 1/4 x 15
26	1	A10325A-012	HOSE ASSEMBLY, 1/4 x 12
27	2	A09820A-024	HOSE ASSEMBLY, 1/2 x 24
28	1	A10325A-010	HOSE ASSEMBLY, 1/4 x 10
29	1	A10338A-020	HOSE ASSEMBLY, 1/4 x 20
30	1	A10338A-016	HOSE ASSEMBLY, 1/4 x 16
31	1	A10467A-023	HOSE ASSEMBLY, 3/4 x 23
32	1	A10079A-015	HOSE ASSEMBLY, 3/8 x 15
33	2	A10308A-017	HOSE ASSEMBLY, 3/8 x 17
34	1	A10326A-018	HOSE ASSEMBLY, 1/4 x 18

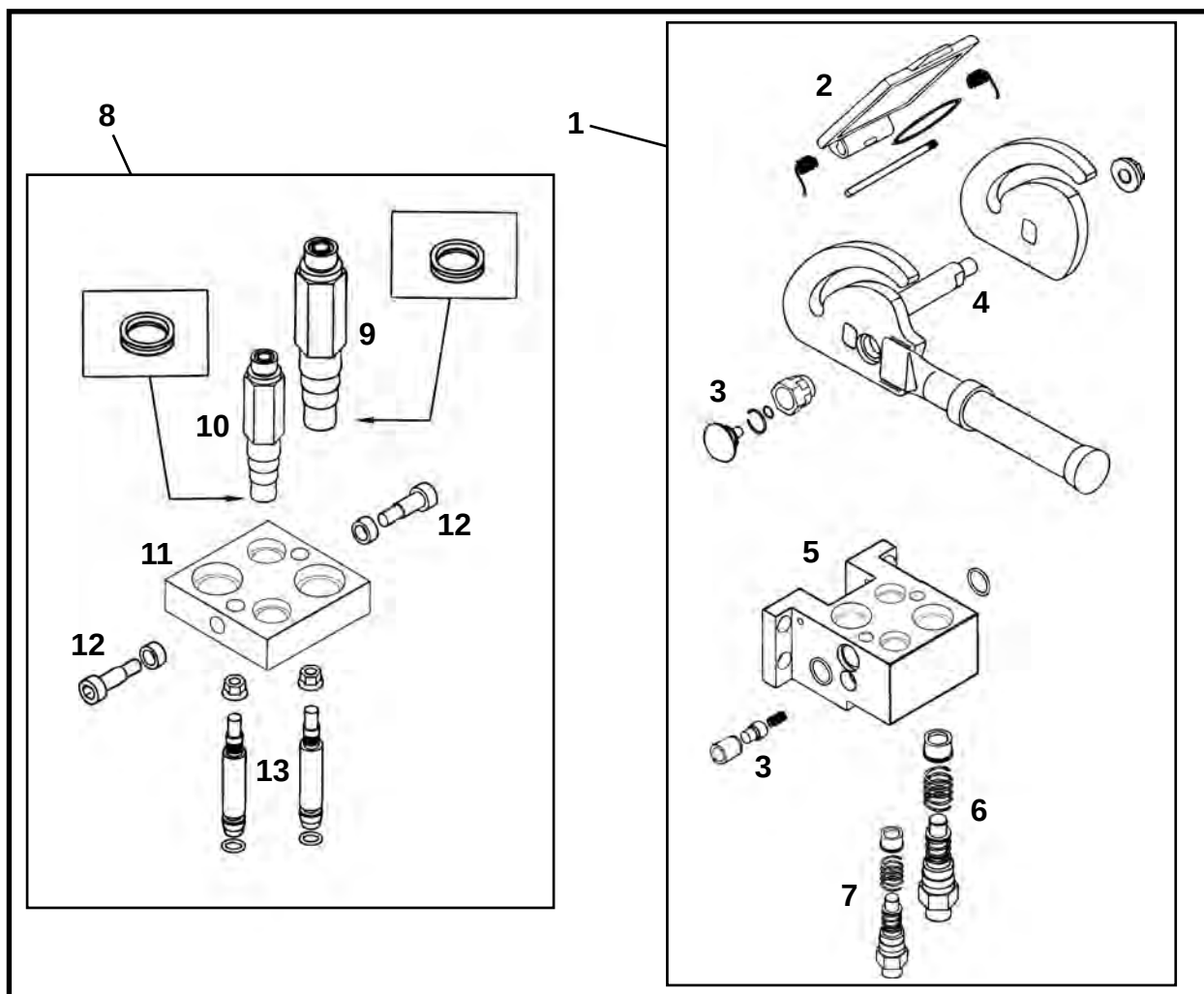
FITTING KIT, A40768A
339A (SN FA43500F-7 & AFTER)



FITTING KIT, A40768A
339A (SN FA43500F-7 & AFTER)

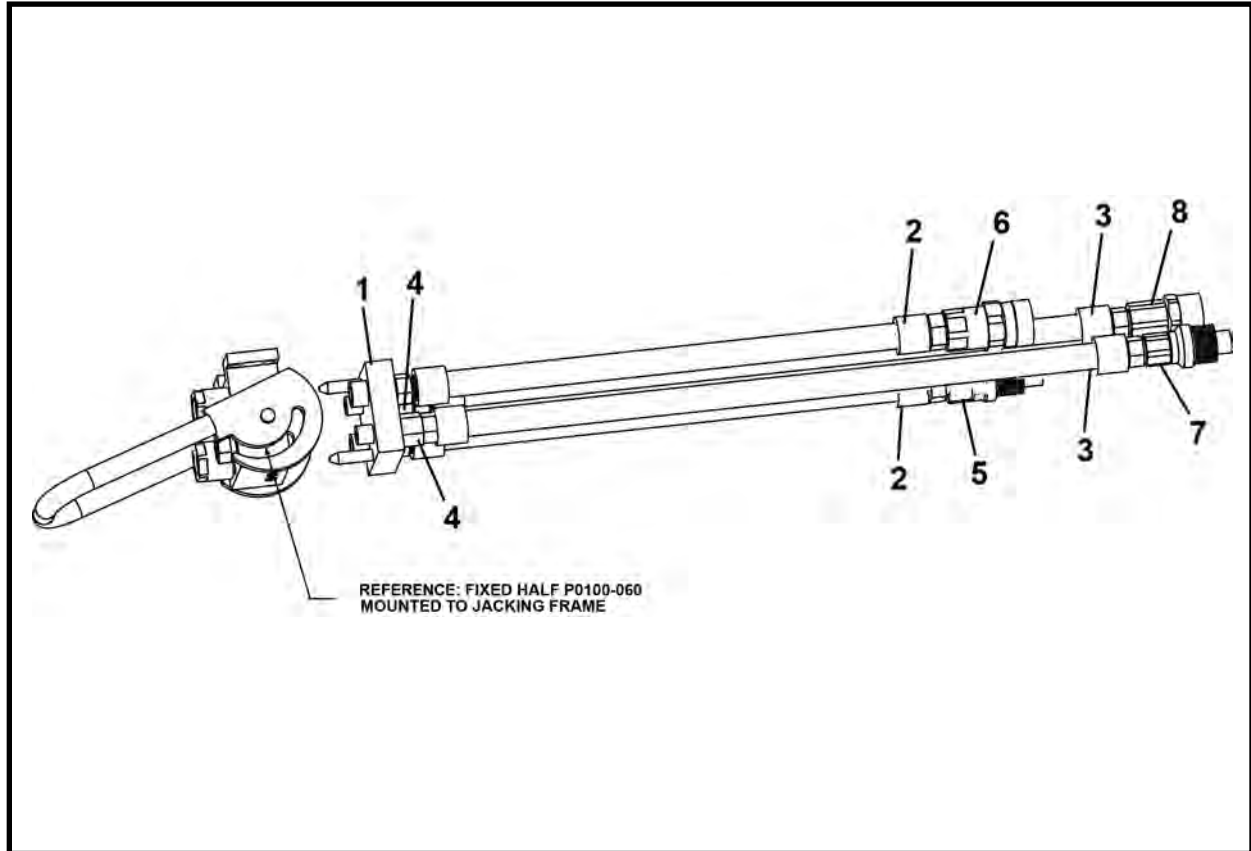
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40768A	FITTING KIT
1	2	P0300-331	FITTING, 6MJ X 6MJ BULKHEAD
2	2	P0300-325	FITTING, 8MJ-8MJ BULKHEAD
3	2	P0300-412	FITTING, 8FJS-8MJ-8MJ
4	3	P0300-330	FITTING, 12MJ-12MJ BULKHEAD
5	2	P0300-308	FITTING, 16 MJIC X 16 MJIC BULKHEAD
6	1	P0300-426	FITTING, 16MJ-16FJS-16MJ
7	2	P0300-309	ORING
8	3	P0300-324	ORING
9	2	P0300-332	ORING
10	4	P0300-333	ORING
11	2	P0300-329	FITTING, 12MFS-12MORB
12	1	P0300-317	FITTING, 8MFS-FSS 90
13	1	P0300-424	FITTING, 12MFFOR-12FFORX90
14	2	P0300-594	FITTING, 4FB-4MFFOR
15	3	P0300-300	FITTING, 8MFS X 10 M ORB
16	3	P0300-395	FITTING, 8FFS-4MFS REDUCER
17	1	P0300-257	FITTING, 4 MJ X 10 MB
18	1	P0300-259	CAP, 4FJ-CAP
19	3	P0300-318	FITTING, 8MFS-8FFSS-8MFS
20	2	P0300-269	FITTING, 6MJ-8MB
21	1	P0300-763	FITTING, 8MP-8FFORX
22	1	P0300-340	FITTING, 8MFS X 8 MP 90 DEGREE
23	1	P0300-432	FITTING, 4 NPT X 4 FFS
24	1	P0300-086	FITTING, 8MP-4FP
25	2	P0300-373	FITTING, 08MFFOR-12MB90
26	2	P0300-821	FITTING, 4MFFOR-4MB-4MFFOR
27	4	P0300-384	FITTING, FS6802-10-10 NWO
28	1	P0300-590	FITTING, 4MFFOR-4MB45
29	1	P0300-193	PLUG, Oring Hex Head
30	1	P0300-427	FITTING, 04MFOR-04MB90
31	2	P0300-430	FITTING, 6MFFOR-8MB
32	1	P0300-305	FITTING, 08MFFOR-08MB
33	2	P0300-622	FITTING, 12FFOR-08MFOR
34	2	P0300-579	FITTING, 12MFFOR-12MB-12MFFOR
35	1	P0300-613	FITTING, 06MFOR-06FFORX-06MFOR
36	1	P0300-376	FITTING, 06MFOR-06MFOR-06MB
37	4	P0300-355	FITTING, 06MFOR-06MB90
38	2	P0300-311	FITTING, #4 MFS X #6 MAORB
39	4	P0300-302	FITTING, X 8 MFS X 10 M ORB
40	2	P0300-429	FITTING, 6MFFOR-5MB90
41	2	P0300-314	FITTING, 4MFS-5MB
42	1	P0300-312	FITTING, T/4BT X 4BTS X 4BT
43	2	P0300-743	FITTING, 08MB-06FB

MULTIFASTER PCH AUGER DRIVE QD, P0100-060
308A (SN FA40032F-21 & AFTER) & 339A (SN FA43500F-1 THRU 6)



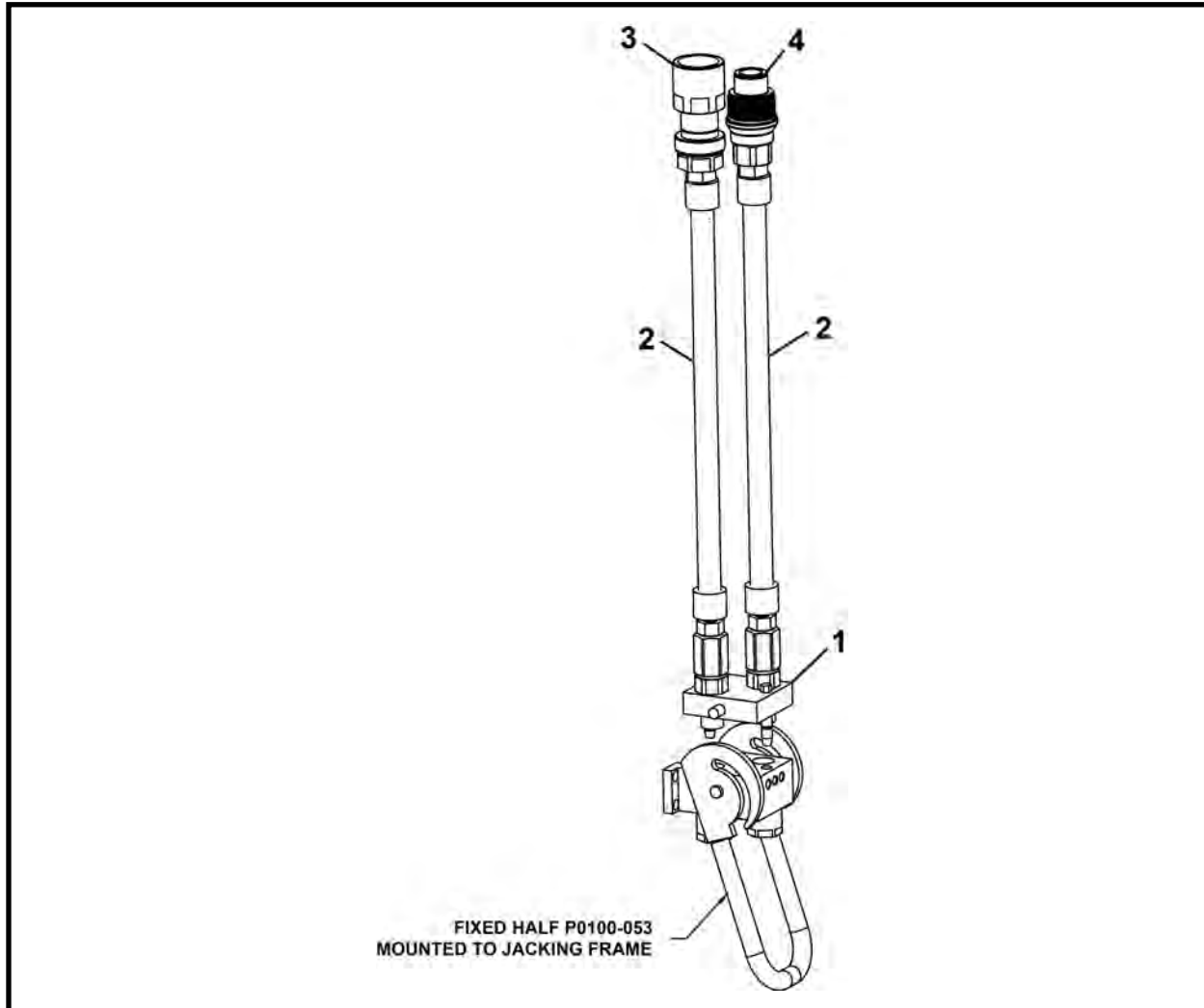
ITEM	QTY	PART NO.	DESCRIPTION
1	1	P0100-060	QD FIXED HALF (Includes items 2 - 7)
2	1	P0100-060B	CAP, Automatic Dust
3	1	-	KIT, Safety
4	1	-	LEVER
5	1	-	BLOCK, Fixed
6	2	P0100-060A	3/4 BODY X 3/4 FEMALE ORB
7	2	P0100-056	1/2 BODY X 1/2 FEMALE ORB
8	1	P0100-061	QD MOBILE HALF (Includes items 9 - 13)
9	2	P0100-061A	3/4 BODY X 3/4 FORB
10	2	P0100-055	1/2 BODY X 1/2 FORB
11	1	-	BLOCK, Mobile
12	1	-	SCREW
13	1	-	DOWEL & NUT

FASTER MOBILE HALF ASSEMBLY, A46162A
308A (SN FA40032F-21 & AFTER) & 339A (SN FA43500F-4 THRU 6)



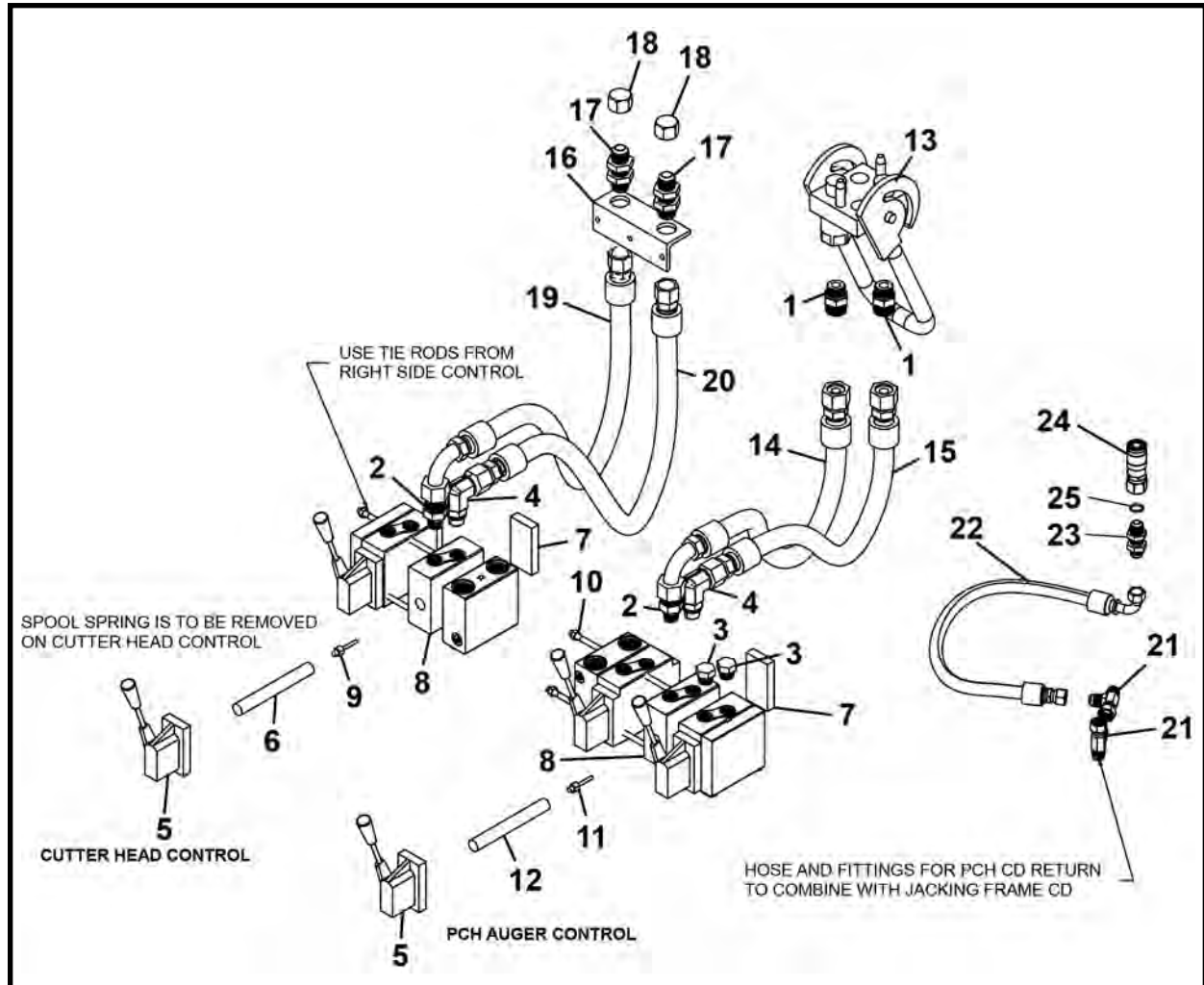
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A46162A	FASTER MOBILE HALF ASSEMBLY
1	1	P0100-061	MULTIFASTER MOBILE HALF, 4 Port
2	2	A10486A-024	HOSE ASSEMBLY, 3/4 x 24
3	2	A10439A-032	HOSE ASSEMBLY, 3/4 x 32
4	2	P0300-476	FITTING, 08MB-12FB
5	1	P0100-068	COUPLER, Male
6	1	P0100-067	COUPLER, Female
7	1	P0100-066	COUPLER, Male
8	1	P0100-065	COUPLER, Female

FASTER MOBILE HALF ASSEMBLY, A43583A
339A (SN FA43500F-7 & AFTER)



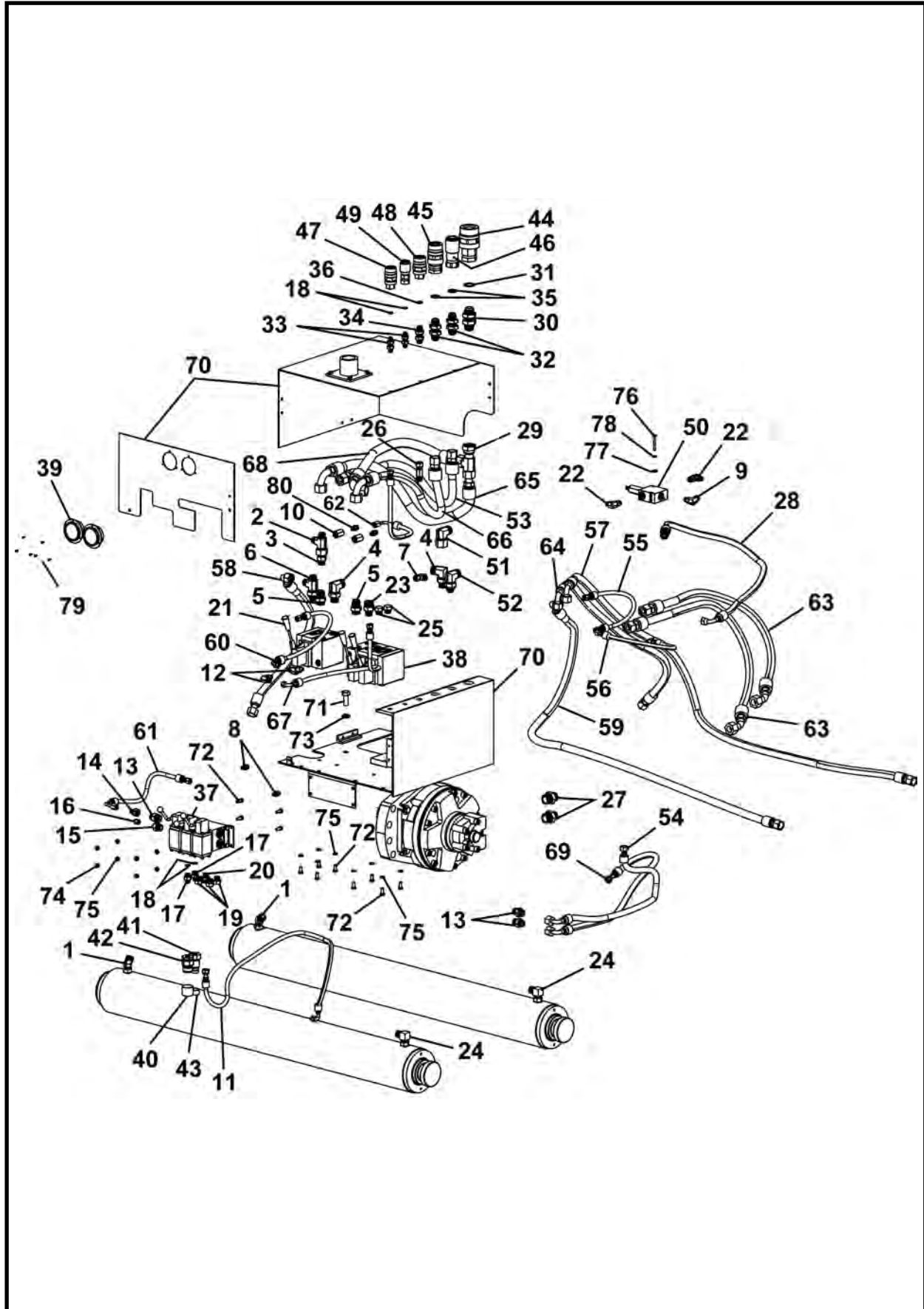
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43583A	FASTER MOBILE HALF ASSEMBLY
1	1	P0100-054	MULTIFASTER, 3/4
2	2	A10486A-024	HOSE ASSEMBLY, 3/4 x 24
3	1	P0100-099	COUPLER HALF, Female 1
4	1	P0100-100	NIPPLE HALF, Male 1

**HYDRAULIC VALVE UPGRADE TO PCH/PRH CONTROLS
FOR GBM 308A, 339A, 240A, A47739A
JANUARY 2016 & AFTER**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A47739A	VALVE UPGRADE & MULTI PORT ASSEMBLY
1	2	P0300-329	FITTING, 12MFOR-12MB
2	2	P0300-361	FITTING, 12MFOR-10MB
3	2	P0300-060	PLUG, 10MB-PLUG
4	2	P0300-425	FITTING, 12MFOR-10MB90
5	2	P0302-383A	HANDLE ASSEMBLY
6	1	P0302-503C	SPOOL
7	2	P0302-456	COVER
8	2	P0302-457	VALVE BODY
9	1	P0302-503A	FRICTION DETENT
10	1	P0302-459	KIT, PVB ASSEMBLY
11	1	P0302-460	PIN, Float
12	1	P0302-503B	SPOOL
13	1	P0100-053	MULTIFASTER, 3/4, F
14	1	A10468A-042	HOSE ASSEMBLY, 3/4 x 42
15	1	A10464A-042	HOSE ASSEMBLY, 3/4 x 42
16	1	A43584P	MOUNT, Hose PCH Cutterbit
17	2	P0300-330	FITTING, 12MJ-12MJBKHD
18	2	P0300-642	CAP, 12FJ-CAP
19	1	A10349A-035	HOSE ASSEMBLY, 3/4 x 35
20	1	A10351A-031	HOSE ASSEMBLY, 3/4 x 31
21	2	P0300-412	FITTING, 08MJ-08FJX-08MJ
22	1	A10361A-033	HOSE ASSEMBLY, 1/2 x 33
23	1	P0300-325	FITTING, 08MJ-08MJBKHD
24	1	P0100-088	COUPLER, Quick Female End
25	1	P0300-332	ORING, 08OR

HYDRAULIC ASSEMBLY, A40175A
240A SINGLE STAGE FRAME WITH SAI MOTOR
240A (SN FA40027F-55 & BEFORE)

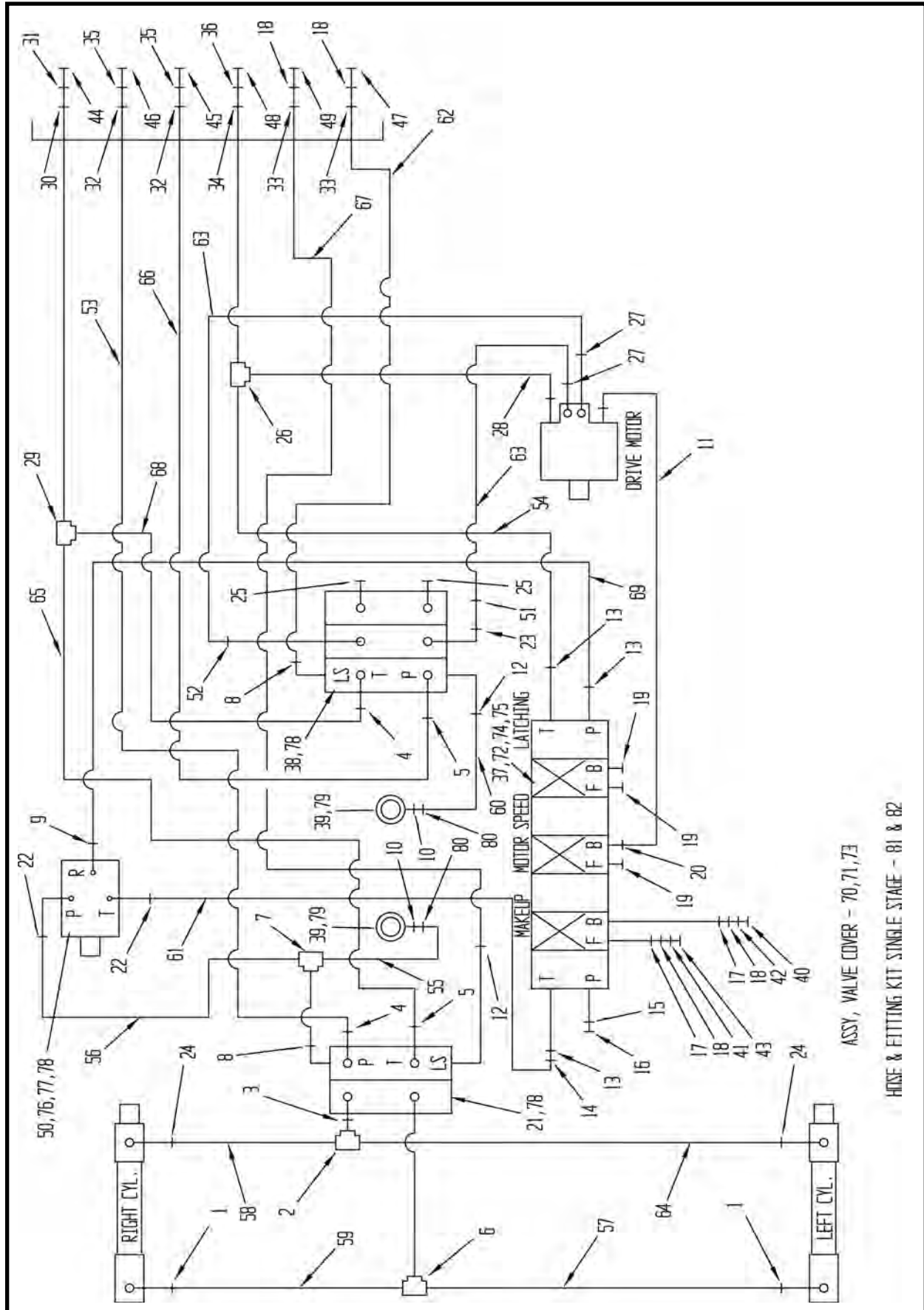


HYDRAULIC ASSEMBLY, A40175A
240A SINGLE STAGE FRAME WITH SAI MOTOR
240A (SN FA40027F-55 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40175A	HYDRAULIC ASSEMBLY
1**	2	P0300-384	FITTING, 10MFOR-10MB45
2**	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
3**	1	P0300-385	FITTING, 10MFOR-10MB
4**	2	P0300-372	FITTING, 12MFOR-12MB90
5**	2	P0300-329	FITTING, 12MFOR-12MB
6**	1	P0300-423	FITTING, 10MFOR-10MB-10MFOR
7**	1	P0300-312	FITTING, 04MFOR-04FFORX-04MFOR
8**	2	P0300-314	FITTING, 04MFOR-05MB
9**	1	P0300-355	FITTING, 06MFOR-06MB90
10	2	A43043P	ADAPTER, 4MB-4MB
11*	1	A10360A-044	HOSE ASSEMBLY, 1/4 x 44
12**	2	P0300-429	FITTING, 06MFOR-05MB90
13**	3	P0300-300	FITTING, 08MFOR-10MB
14**	1	P0300-395	FITTING, 08FFOR-04MFO
15**	1	P0300-257	FITTING, 04MJ-10MB
16**	1	P0300-259	FITTING, 04FJ-CAP
17**	2	P0300-269	FITTING, 06MJ-08MB
18**	4	P0300-333	FITTING, 06OR
19**	3	P0300-193	FITTING, 08MB-PLUG
20**	1	P0300-430	FITTING, 06MFOR-08MB
21***	1	P0302-419	VALVE
22**	2	P0300-311	FITTING, 04MFOR-06MB90
23**	1	P0300-361	FITTING, 12MFOR-10MB
24**	2	P0300-383	FITTING, 10MFOR-10MB90
25**	2	P0300-060	FITTING, 10MB-PLUG
26**	1	P0300-412	FITTING, 08MJ-08FJX-08MJ
27**	2	P0300-378	FITTING, 12MFOR-16MB
28*	1	A10361A-033	HOSE ASSEMBLY, 1/2 x 33
29**	1	P0300-426	FITTING, 16MJ-16FJX-16MJ
30**	1	P0300-308	FITTING, 16MJ-16MJBKHD
31**	1	P0300-309	FITTING, 16OR
32**	2	P0300-330	FITTING, 12MJ-12MJBKHD
33**	2	P0300-331	FITTING, 06MJ-04MJBKHD
34**	1	P0300-325	FITTING, 08MJ-04MJBKHD
35**	2	P0300-324	FITTING, 12OR
36**	1	P0300-332	FITTING, 08OR
37***	1	A42461P	VALVE
38***	1	P0302-420	VALVE
39	2	P0301-142	GAUGE 5000 PSI 2.5 7/16 MORB
40	1	P0100-047A	PLUG, Dust
41	1	P0100-046	COUPLER, Male
42	1	P0100-047	COUPLER, Female
43	1	P0100-046A	PLUG, Dust
44	1	P0100-034	COUPLER, Quick 1 Female
45	1	P0100-036	COUPLER, Quick 3/4 Female
46	1	P0100-037	COUPLER, Quick 3/4 Male
47	1	P0100-040	COUPLER, Quick 3/8 Female
48	1	P0100-038	COUPLER, Quick 1/2 Female
49	1	P0100-041	COUPLER, Quick 3/8 Male
50***	1	P0302-421A	VALVE, Pressure Reducing

(continued on next page)

HYDRAULIC ASSEMBLY, A40175A
240A SINGLE STAGE FRAME WITH SAI MOTOR
240A (SN FA40027F-55 & BEFORE)



HYDRAULIC ASSEMBLY, A40175A
240A SINGLE STAGE FRAME WITH SAI MOTOR
240A (SN FA40027F-55 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
51**	1	P0300-424	FITTING, 12MFOR-12FFORX90
52**	1	P0300-425	FITTING, 12MFOR-10MB90
53*	1	A10465A-030	HOSE ASSEMBLY, 3/4 x 30
54*	1	A10354A-032	HOSE ASSEMBLY, 3/8 x 32
55*	1	A10316A-018	HOSE ASSEMBLY, 1/4 x 18
56*	1	A10326A-018	HOSE ASSEMBLY, 1/4 x 18
57*	1	A10334A-023	HOSE ASSEMBLY, 1/2 x 23
58*	1	A10334A-072	HOSE ASSEMBLY, 1/2 x 72
59*	1	A10334A-036	HOSE ASSEMBLY, 1/2 x 36
60*	1	A10377A-018	HOSE ASSEMBLY, 1/4 x 18
61*	1	A10325A-017	HOSE ASSEMBLY, 1/4 x 17
62*	1	A10318A-019	HOSE ASSEMBLY, 1/4 x 19
63*	2	A10467A-033	HOSE ASSEMBLY, 3/4 x 33
64*	1	A10334A-071	HOSE ASSEMBLY, 1/2 x 71
65*	1	A10352A-036	HOSE ASSEMBLY, 3/4 x 36
66*	1	A10466A-033	HOSE ASSEMBLY, 3/4 x 33
67*	1	A10339A-024	HOSE ASSEMBLY, 1/4 x 24
68*	1	A10352A-024	HOSE ASSEMBLY, 3/4 x 24
69*	1	A10366A-038	HOSE ASSEMBLY, 3/8 x 38
70^	1	A42481A	COVER, Assembly Valve
71	2	P0001-10-006	BOLT, 5/8 UNC x 1.5
72	12	P0001-05-003	BOLT, 5/16 UNC x .75
73	2	P0045-010	WASHER, Lock 5/8
74	4	P0003-05-000	NUT, 5/16
75	12	P0045-005	NUT, Lock 5/16
76	2	P0001-04-008	BOLT, 1/4 UNC x 2
77	2	P0040-004	WASHER, Flat 1/4
78	2	P0045-004	WASHER, Lock 1/4
79	6	P0017-06-323	SCREW, Machine 6-32 x 1/2
80**	2	P0300-362	FITTING, 04MFOR-04MB
81	-	A43040A	KIT, Hose
82	-	A43042A	KIT, Fitting

* Items included in item 81, A43040A, Hose Kit

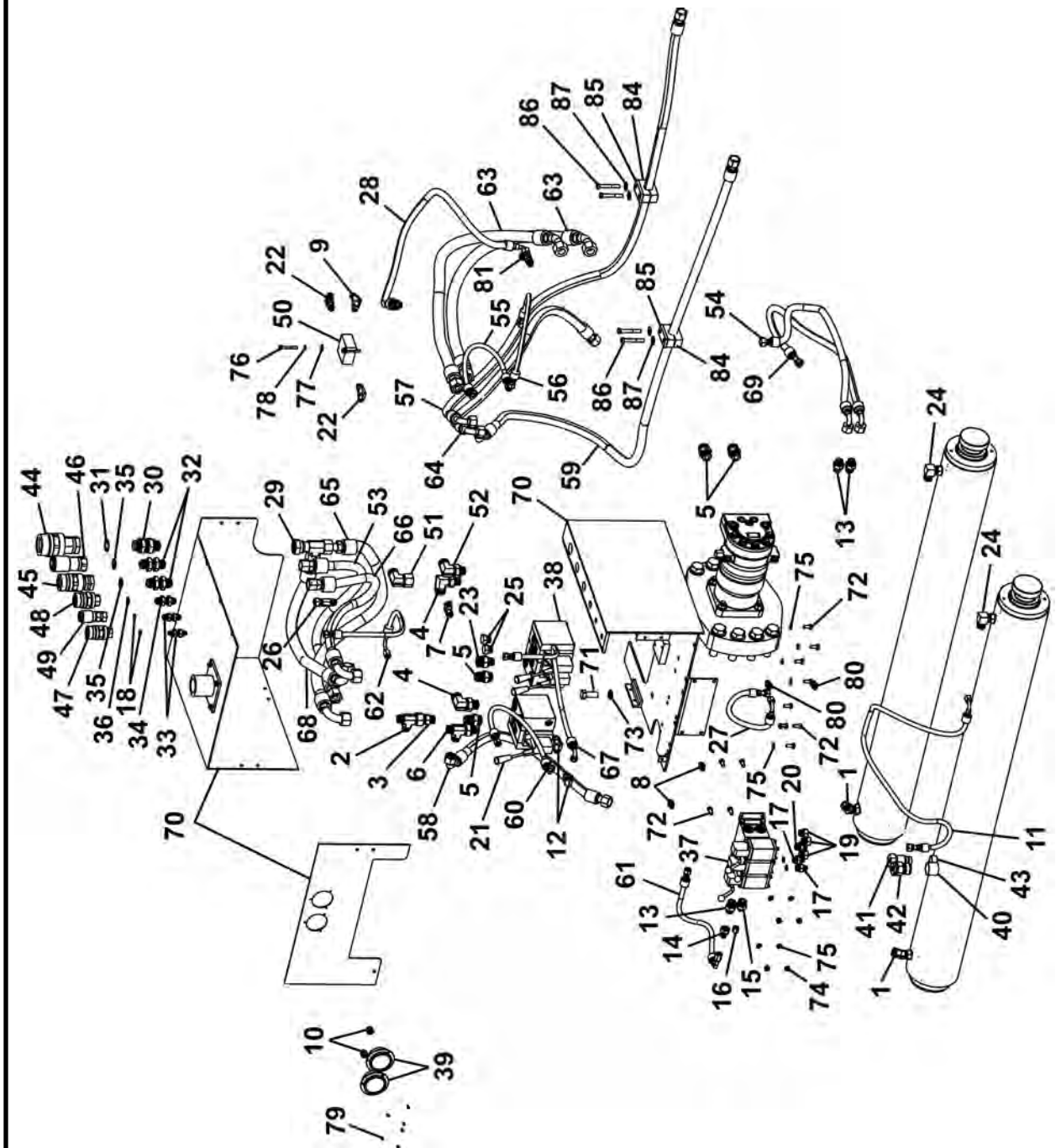
** Items included in item 82, A43042A, Fitting Kit

*** Refer to Section 7, Valves for parts information.

^ Refer to Section 3, Structural for parts information.

NOTE: Drive Motor P0304-160 is replaced by Drive Motor P0304-169. Contact your Akkerman Aftermarket Support representative for the replacement kit.

HYDRAULIC ASSEMBLY, A40175A
 240A SINGLE STAGE FRAME WITH VIS MOTOR
 240A (SN FA40027F-55 & BEFORE)

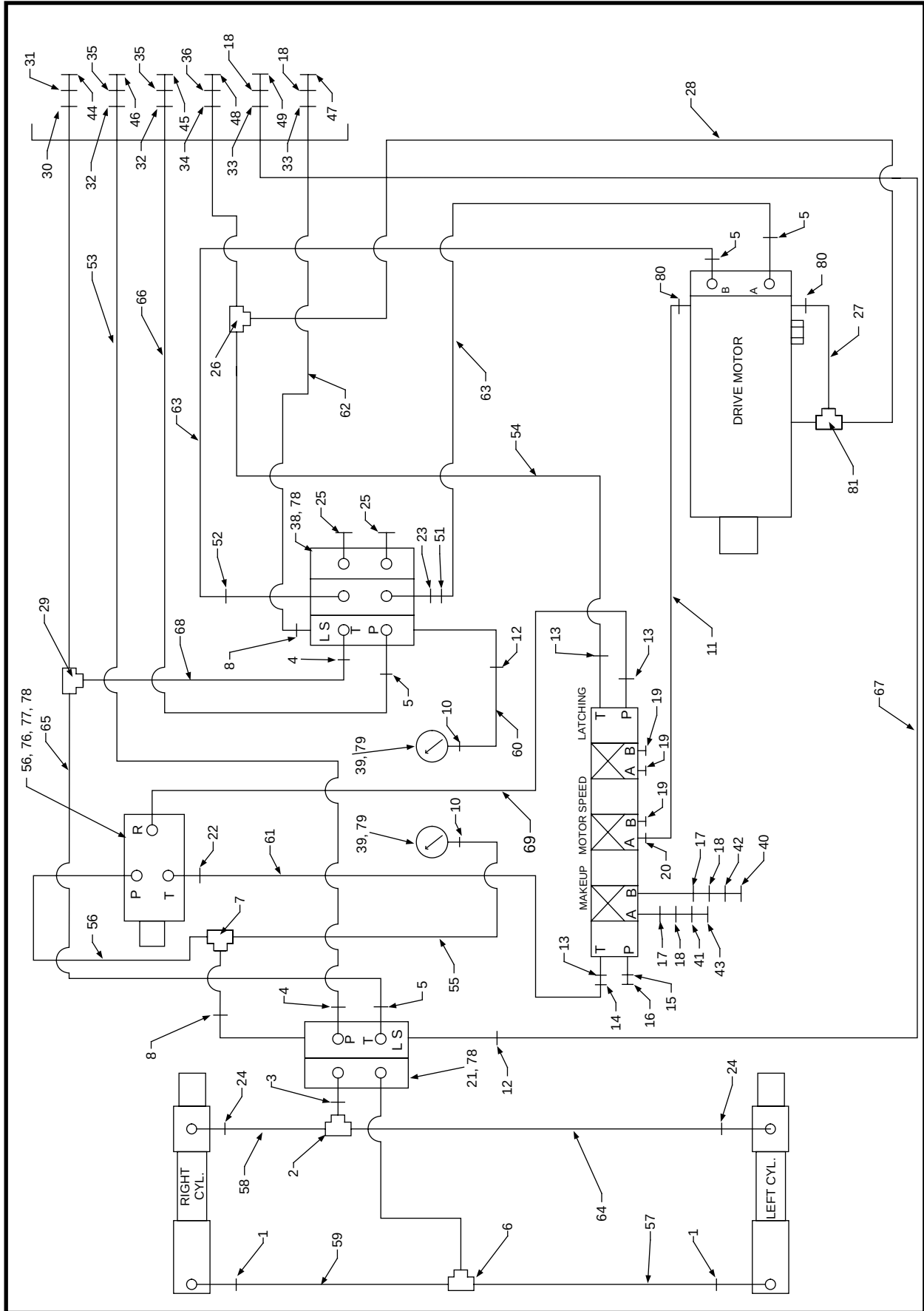


HYDRAULIC ASSEMBLY, A40175A
240A SINGLE STAGE FRAME WITH VIS MOTOR
240A (SN FA40027F-55 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40175A	HYDRAULIC ASSEMBLY
1**	2	P0300-384	FITTING, 10MFOR-10MB45
2**	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
3**	1	P0300-385	FITTING, 10MFOR-10MB
4**	2	P0300-372	FITTING, 12MFOR-12MB90
5**	4	P0300-329	FITTING, 12MFOR-12MB
6**	1	P0300-423	FITTING, 10MFOR-10MB-10MFOR
7**	1	P0300-312	FITTING, 04MFOR-04FFORX-04MFOR
8**	2	P0300-314	FITTING, 04MFOR-05MB
9**	1	P0300-355	FITTING, 06MFOR-06MB90
10	2	P0300-594	ADAPTER, 4FB-4MFFOR
11*	1	A10389A-030	HOSE ASSEMBLY 1/4 x 30
12**	2	P0300-429	FITTING, 06MFOR-05MB90
13**	3	P0300-300	FITTING, 08MFOR-10MB
14**	1	P0300-395	FITTING, 08FFOR-04MFO
15**	1	P0300-257	FITTING, 04MJ-10MB
16**	1	P0300-259	FITTING, 04FJ-CAP
17**	2	P0300-269	FITTING, 06MJ-08MB
18**	4	P0300-333	FITTING, 06OR
19**	3	P0300-193	FITTING, 08MB-PLUG
20**	1	P0300-430	FITTING, 06MFOR-08MB
21***	1	P0302-419	VALVE
22**	2	P0300-311	FITTING, 04MFOR-06MB90
23**	1	P0300-361	FITTING, 12MFOR-10MB
24**	2	P0300-383	FITTING, 10MFOR-10MB90
25**	2	P0300-060	FITTING, 10MB-PLUG
26**	1	P0300-412	FITTING, 08MJ-08FJX-08MJ
27	1	A10389A-016	HOSE ASSEMBLY 1/4 x 16
28	1	A10390A-022	HOSE ASSEMBLY 3/8 x 22
29**	1	P0300-426	FITTING, 16MJ-16FJX-16MJ
30**	1	P0300-308	FITTING, 16MJ-16MJBKHD
31**	1	P0300-309	FITTING, 16OR
32**	2	P0300-330	FITTING, 12MJ-12MJBKHD
33**	2	P0300-331	FITTING, 06MJ-04MJBKHD
34**	1	P0300-325	FITTING, 08MJ-04MJBKHD
35**	2	P0300-324	FITTING, 12OR
36**	1	P0300-332	FITTING, 08OR
37***	1	A42461P	VALVE
38***	1	P0302-420	VALVE
39	2	P0301-142	GAUGE 5000 PSI 2.5 7/16 MORB
40	1	P0100-047A	PLUG, Dust
41	1	P0100-046	COUPLER, Male
42	1	P0100-047	COUPLER, Female
43	1	P0100-046A	PLUG, Dust
44	1	P0100-034	COUPLER, Quick 1 Female
45	1	P0100-036	COUPLER, Quick 3/4 Female
46	1	P0100-037	COUPLER, Quick 3/4 Male
47	1	P0100-040	COUPLER, Quick 3/8 Female
48	1	P0100-038	COUPLER, Quick 1/2 Female
49	1	P0100-041	COUPLER, Quick 3/8 Male
50***	1	P0302-421A	VALVE, Pressure Reducing

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HYDRAULIC ASSEMBLY, A40175A
240A SINGLE STAGE FRAME WITH VIS MOTOR
240A (SN FA40027F-55 & BEFORE)



HYDRAULIC ASSEMBLY, A40175A
240A SINGLE STAGE FRAME WITH VIS MOTOR
240A (SN FA40027F-55 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
51**	1	P0300-424	FITTING, 12MFOR-12FFORX90
52**	1	P0300-425	FITTING, 12MFOR-10MB90
53*	1	A10465A-030	HOSE ASSEMBLY, 3/4 x 30
54*	1	A10354A-032	HOSE ASSEMBLY, 3/8 x 32
55*	1	A10316A-018	HOSE ASSEMBLY, 1/4 x 18
56*	1	A10325A-031	HOSE ASSEMBLY, 1/4 x 31
57*	1	A10334A-023	HOSE ASSEMBLY, 1/2 x 23
58*	1	A10334A-072	HOSE ASSEMBLY, 1/2 x 72
59*	1	A10334A-036	HOSE ASSEMBLY, 1/2 x 36
60*	1	A10314A-026	HOSE ASSEMBLY, 1/4 x 26
61*	1	A10325A-017	HOSE ASSEMBLY, 1/4 x 17
62*	1	A10318A-019	HOSE ASSEMBLY, 1/4 x 19
63*	2	A10467A-033	HOSE ASSEMBLY, 3/4 x 33
64*	1	A10334A-071	HOSE ASSEMBLY, 1/2 x 71
65*	1	A10352A-036	HOSE ASSEMBLY, 3/4 x 36
66*	1	A10466A-033	HOSE ASSEMBLY, 3/4 x 33
67*	1	A10339A-024	HOSE ASSEMBLY, 1/4 x 24
68*	1	A10352A-024	HOSE ASSEMBLY, 3/4 x 24
69*	1	A10366A-038	HOSE ASSEMBLY, 3/8 x 38
70^	1	A42481A	COVER, Assembly Valve
71	2	P0001-10-006	BOLT, Hex 5/8 UNC x 1.5
72	12	P0001-05-003	BOLT, Hex 5/16 UNC x .75
73	2	P0045-010	WASHER, Lock 5/8
74	4	P0003-05-000	NUT, 5/16
75	12	P0045-005	NUT, Lock 5/16
76	2	P0001-04-008	BOLT, Hex 1/4 UNC x 2
77	2	P0040-004	WASHER, Flat 1/4
78	2	P0045-004	WASHER, Lock 1/4
79	6	P0017-06-323	SCREW, Machine 6-32 x 1/2
80**	2	P0300-362	FITTING, 04MFOR-04MB
81**	1	P0300-386	FITTING, 06MFOR-06MB-06MFOR
82	-	A43042A	KIT, Fitting
83	-	A43040A	KIT, Hose
84	2	P0059-052A	CLAMP SET, Tube
85	2	P0059-050B	PLATE, Cover
86	4	P0001-06-010	BOLT, Hex 3/8 UNC x 2.5
87	4	P0040-066	WASHER, Hardened Flat 3/8

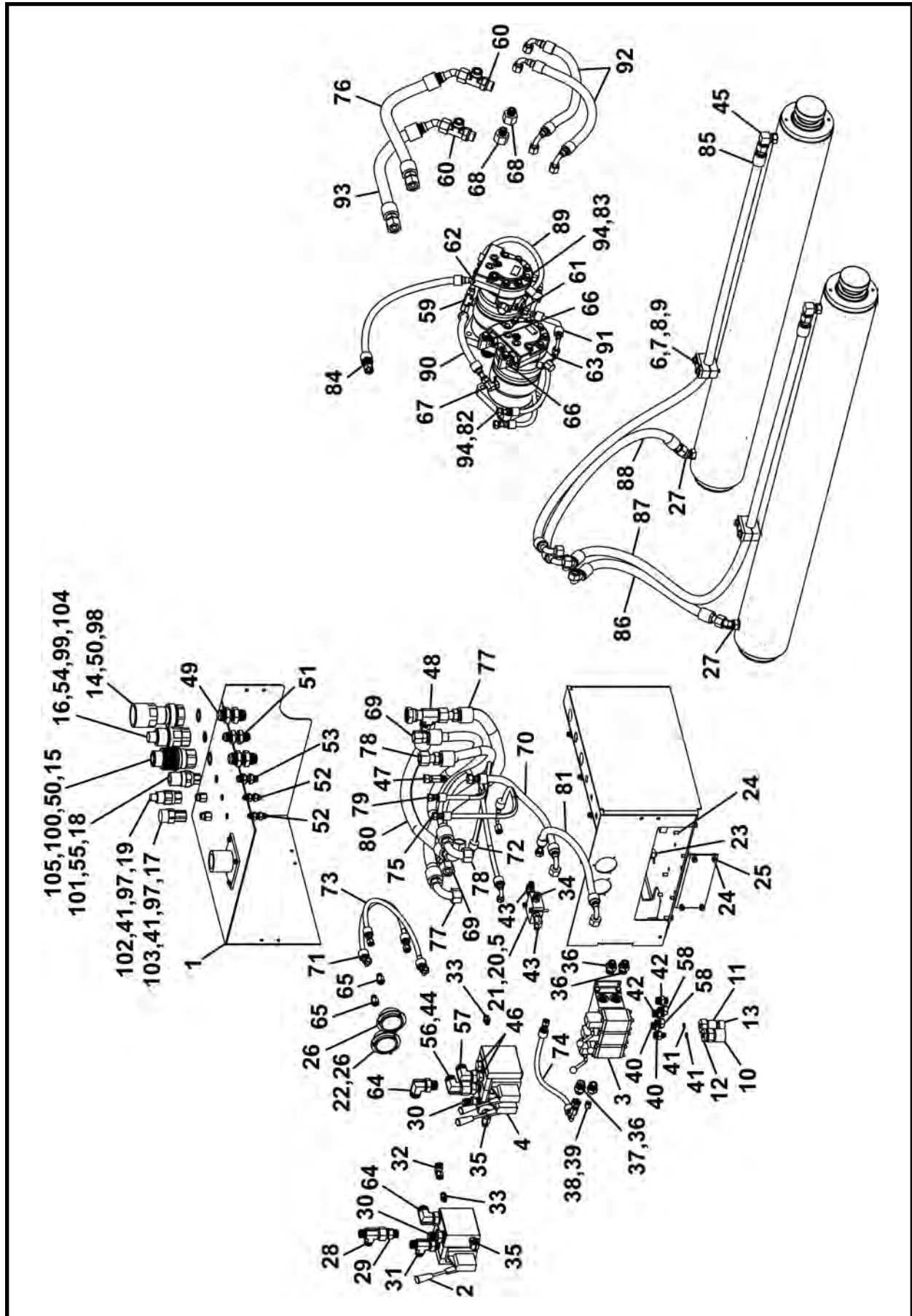
* Items included in item 83, A43040A, Hose Kit

** Items included in item 82, A43042A, Fitting Kit

*** Refer to Section 7, Valves for parts information.

^ Refer to Section 3, Structural for parts information.

HYDRAULIC ASSEMBLY, A47373A
 240A SINGLE STAGE FRAME
 240A (SN FA40027F-56 & AFTER)



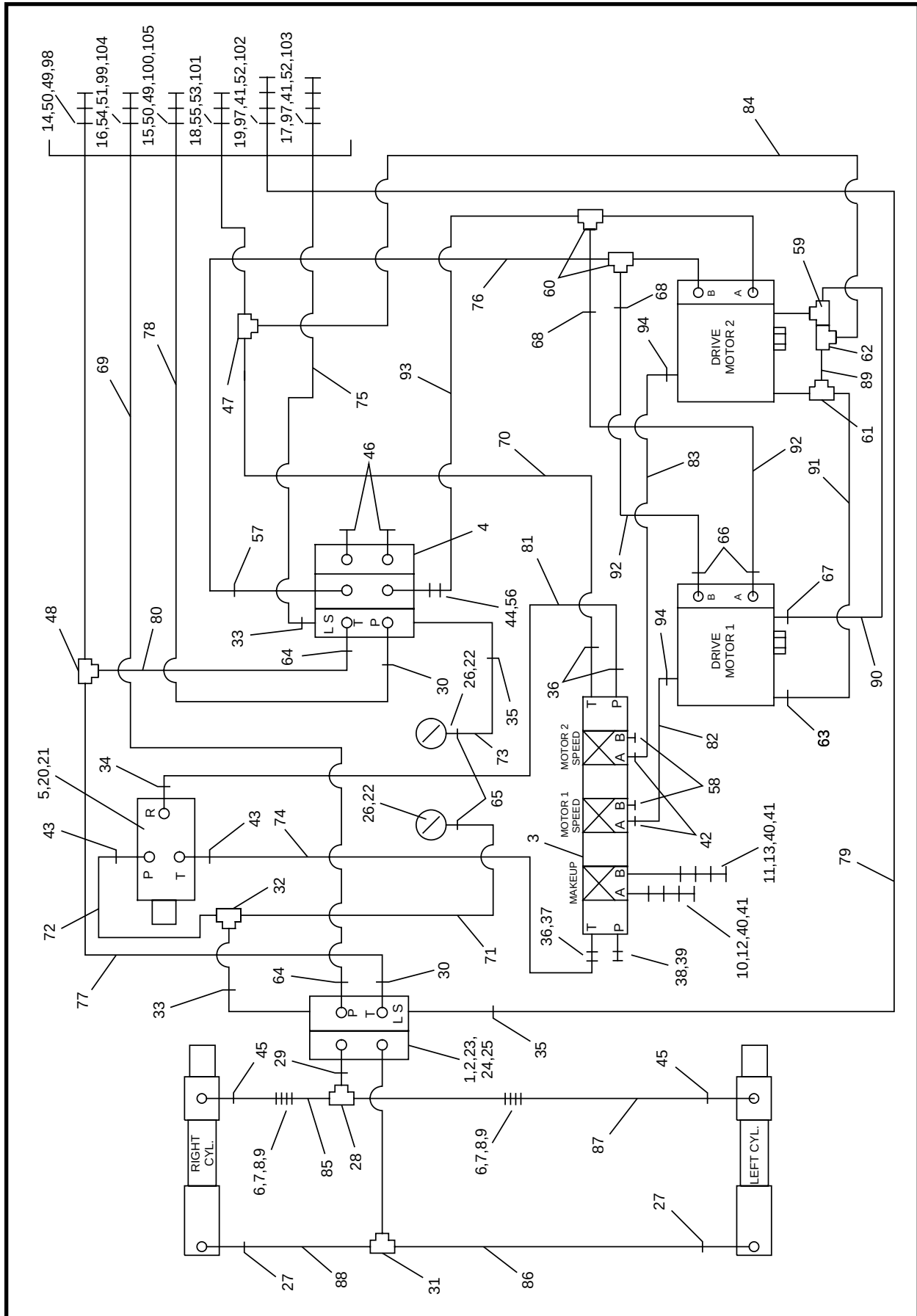
HYDRAULIC ASSEMBLY, A47373A
240A SINGLE STAGE FRAME
240A (SN FA40027F-56 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A47373A	HYDRAULIC ASSEMBLY
1	1	A42481A	COVER, Valve
2***	1	P0302-419	VALVE
3***	1	A42461P	VALVE
4***	1	P0302-420	VALVE
5***	1	P0302-421A	VALVE, Pressure Reducing
6	2	P0059-052A	CLAMP, Tube
7	2	P0059-050B	PLATE, Cover
8	4	P0001-06-010	BOLT, Hex 3/8 UNC x 2.5
9	4	P0040-006	WASHER, Hardened Flat 3/8
10	1	P0100-047A	PLUG, Dust
11	1	P0100-046	COUPLER, Male
12	1	P0100-047	COUPLER, Female
13	1	P0100-046A	CAP, Dust
14	1	P0100-099	COUPLER HALF, FEMALE 1"
15	1	P0100-100	NIPPLE HALF, MALE 1"
16	1	P0100-104	NIPPLE HALF, MALE 3/4"
17	1	P0100-110	COUPLER, 3/8 QD
18	1	P0100-112	COUPLER, 1/2 QD
19	1	P0100-109	NIPPLE, 3/8 QD
20	2	P0001-04-008	BOLT, Hex 1/4 UNC x 2
21	2	P0040-004	WASHER, Hardened Flat 1/4
22	6	P0017-06-323	SCREW, Machine 6-32 x .5
23	2	P0001-10-006	BOLT, Hex 5/8 UNC x 1.5
24	12	P0001-05-003	BOLT, Hex 5/16 UNC x .75
25	4	P0003-05-000	NUT, Hex 5/16
26	2	P0301-142	GAUGE, 5000 PSI MORB
27*	2	P0300-384	FITTING, 10MFOR-10MB45
28*	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
29*	1	P0300-385	FITTING, 10MFFOR-10MB
30*	2	P0300-329	FITTING, 12MFOR-12MB
31*	1	P0300-423	FITTING, 10MFOR-10MB-10MFOR
32*	1	P0300-312	FITTING, 04MFOR-04FFORX-04MFOR
33*	2	P0300-314	FITTING, 04MFOR-05MB
34*	1	P0300-356	FITTING, 06MFOR-06MB
35*	2	P0300-429	FITTING, 06MFOR-05MB90
36*	3	P0300-300	FITTING, 08MFOR-10MB
37*	1	P0300-395	FITTING, 08FFOR-04MFOR
38*	1	P0300-257	FITTING, 04MJ-10MB
39*	1	P0300-259	FITTING, 04FJ-CAP
40*	2	P0300-269	FITTING, 06MJ-08MB
41*	4	P0300-333	ORING, 06OR
42*	2	P0300-430	FITTING, 06MFOR-08MB
43*	2	P0300-311	FITTING, 04MFFOR-06MB90
44*	1	P0300-361	FITTING, 12MFOR-10MB
45*	2	P0300-383	FITTING, 10MFOR-10MB90
46*	2	P0300-060	PLUG, 10MB
47*	1	P0300-412	FITTING, 08MJ-08FJX-08MJ
48*	1	P0300-426	FITTING, 16MJ-16FJX-16MJ
49*	2	P0300-308	FITTING, 16MJ-16MJBKHD
50*	2	P0300-309	ORING, 16OR
51*	1	P0300-330	FITTING, 12MJ-12MJBKHD
52*	1	P0300-331	FITTING, 06MJ-06MJBKHD
53*	1	P0300-325	FITTING, 08MJ-08MJBKHD
54*	2	P0300-324	ORING, 12OR

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HYDRAULIC ASSEMBLY, A47373A
240A SINGLE STAGE FRAME
240A (SN FA40027F-56 & AFTER)



HYDRAULIC ASSEMBLY, A47373A**240A SINGLE STAGE FRAME****240A (SN FA40027F-56 & AFTER)**

ITEM	QTY	PART NO.	DESCRIPTION
55*	1	P0300-332	ORING, 08OR
56*	1	P0300-424	FITTING, 12MFOR-12FFORX90
57*	1	P0300-425	FITTING, 12MFOR-10MB90
58*	2	P0300-193	PLUG, 08MB
59*	1	P0300-376	FITTING, 06MFOR-06MFOR-06MB
60*	2	P0300-579	FITTING, 12MFS-12MAORB-12MFS
61*	1	P0300-821	FITTING, 04MFFOR-04MB-04MFFOR
62*	1	P0300-613	FITTING, 06MFOR-06FFORX-06MFOR
63*	1	P0300-427	FITTING, 04MFOR-04MB90
64*	2	P0300-372	FITTING, 12MFOR-12MB90
65*	2	P0300-594	FITTING, 4FB-4MFFOR
66*	2	P0300-373	FITTING, 08MFOR-12MB90
67*	1	P0300-355	FITTING, 06MFOR-06MB90
68*	2	P0300-622	FITTING, 12FFOR-08MFOR
69**	1	A10465A-030	HOSE ASSEMBLY, 3/4 x 30
70**	1	A10354A-032	HOSE ASSEMBLY, 3/8 x 32
71**	1	A10325A-031	HOSE ASSEMBLY, 1/4 x 31
72**	1	A10326A-018	HOSE ASSEMBLY, 1/4 x 18
73**	1	A10314A-026	HOSE ASSEMBLY, 1/4 x 26
74**	1	A10325A-017	HOSE ASSEMBLY, 1/4 x 17
75**	1	A10318A-019	HOSE ASSEMBLY, 1/4 x 19
76**	1	A10467A-027	HOSE ASSEMBLY, 3/4 x 27
77**	1	A10352A-036	HOSE ASSEMBLY, 3/4 x 36
78**	1	A09828A-033	HOSE ASSEMBLY, 3/4 x 33
79**	1	A10339A-024	HOSE ASSEMBLY, 1/4 x 24
80**	1	A10352A-024	HOSE ASSEMBLY, 3/4 x 24
81**	1	A10366A-027	HOSE ASSEMBLY, 3/8 x 27
82**	1	A10338A-019	HOSE ASSEMBLY, 1/4 x 19
83**	1	A10338A-024	HOSE ASSEMBLY, 1/4 x 24
84**	1	A10390A-023	HOSE ASSEMBLY, 3/8 x 23
85**	1	A10334A-072	HOSE ASSEMBLY, 1/2 x 72
86**	1	A10334A-023	HOSE ASSEMBLY, 1/2 x 23
87**	1	A10334A-071	HOSE ASSEMBLY, 1/2 x 71
88**	1	A10334A-036	HOSE ASSEMBLY, 1/2 x 36
89**	1	A10338A-016	HOSE ASSEMBLY, 1/4 x 16
90**	1	A10079A-015	HOSE ASSEMBLY, 3/8 x 15
91**	1	A10325A-009	HOSE ASSEMBLY, 1/4 x 9
92**	2	A09820A-022	HOSE ASSEMBLY, 1/2 x 22
93**	1	A10467A-023	HOSE ASSEMBLY, 3/4 x 23
94	2	P0300-362	FITTING, 04MFOR-04MB
95	-	A47728A	KIT, Fitting
96	-	A47729A	KIT, Hose Assembly
97*	2	P0300-743	FITTING, 08MB-06FB
98	1	P0100-099A	PLUG, Aluminum
99	1	P0100-104A	CAP, Aluminum Protective
100	1	P0100-100A	CAP, Aluminum Protective
101	1	P0100-112A	PLUG, Aluminum Protective
102	1	P0100-109A	CAP, Plastic
103	1	P0100-110A	PLUG, Plastic
104	2	P0220-339	SHRINK TUBE, Blue
105	2	P0220-338	SHRINK TUBE, Red

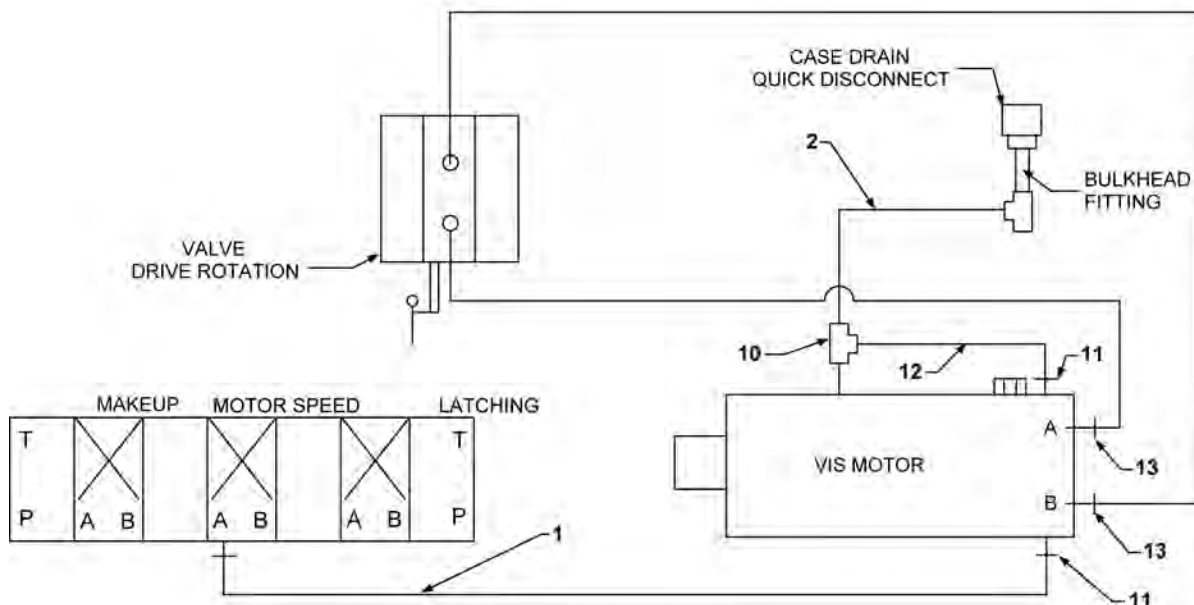
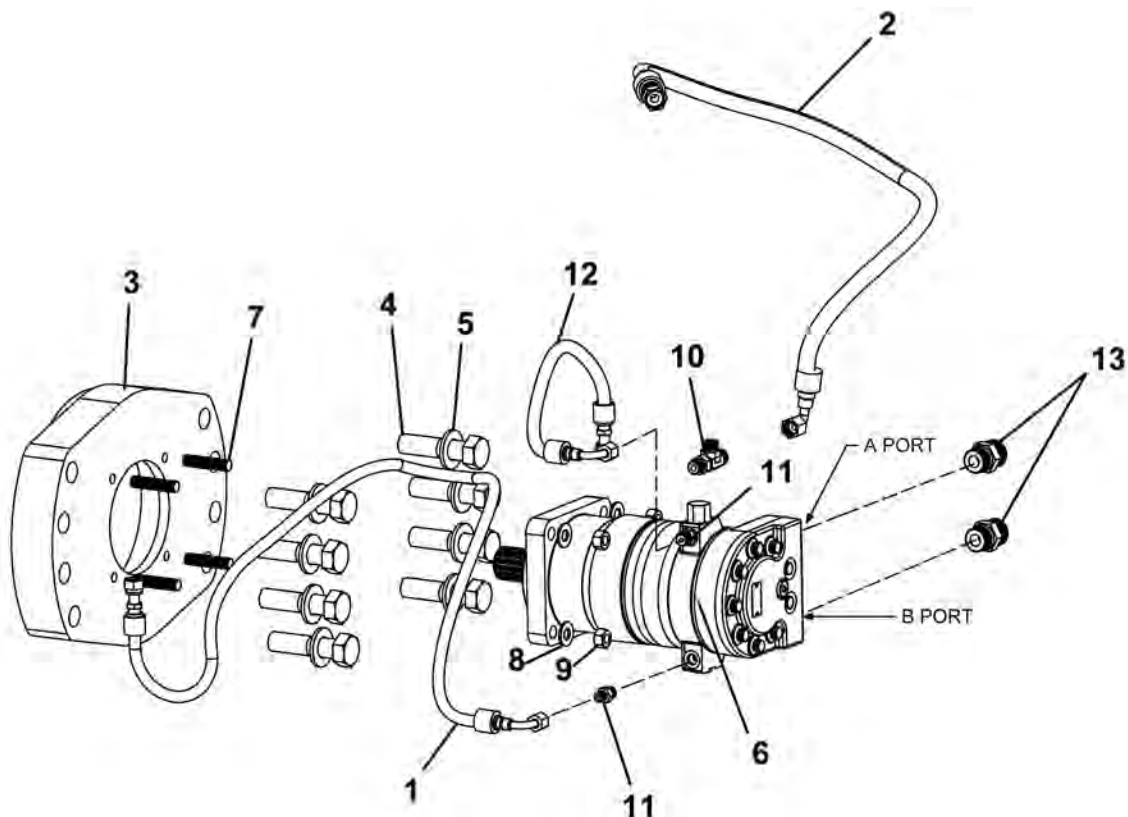
* Included in item 95, Kit, Fitting

** Included in item 96, Kit Hose Assembly

*** Refer to Section 7, Valves for parts information.

SAI TO VIS DRIVE MOTOR CONVERSION KIT, A44764A

SAI TO VIS DRIVE MOTOR CONVERSION



NOTES:

1. LIGHTLY OIL #4 AND TORQUE TO 460 FT-LBS
2. INSTALL PART 7 SO THAT THERE IS APPROX. 1.76" OF THREAD SHOWING. (NOT PROTRUDING ON BACK SIDE)
3. LIGHTLY OIL EXPOSED THREAD OF #7 AND TORQUE #9 TO 80 FT-LBS

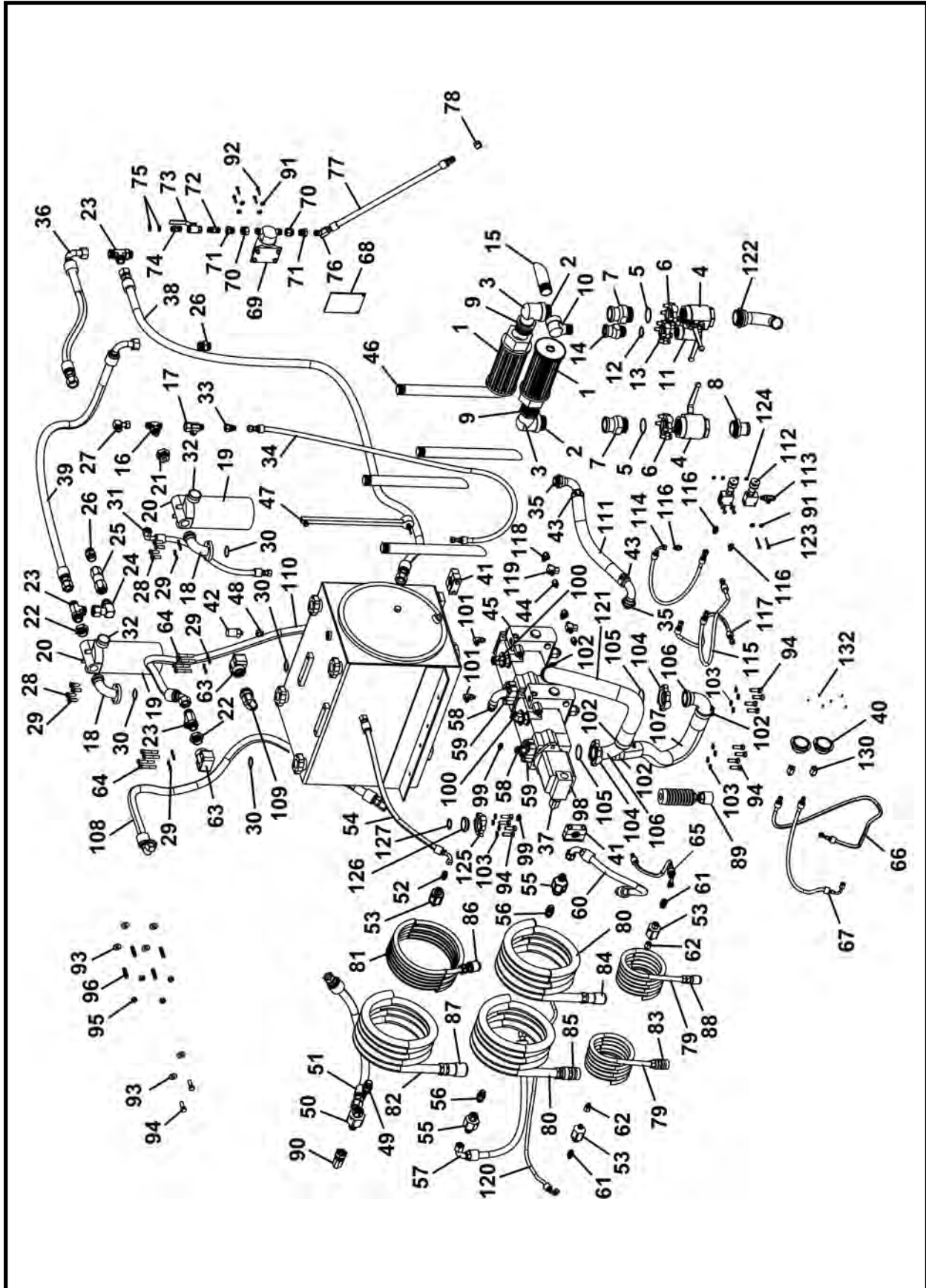
SAI TO VIS DRIVE MOTOR CONVERSION KIT, A44764A

SAI TO VIS DRIVE MOTOR CONVERSION

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44764A	KIT, SAI To VIS Motor Conversion
1	1	A10389A-030	HOSE ASSEMBLY, 1/4 x 30
2	1	A10390A-022	HOSE ASSEMBLY, 3/8 x 22
3	1	A43050A	ASSEMBLY, Planetary Gear Box
4	8	P0001-14-014	BOLT, 7/8 UNC x 3.5
5	8	P0040-014	WASHER, Hardened Flat 7/8
6*	1	P0304-169	MOTOR, VIS
7	4	P0025-005	STUD, Threaded
8	4	P0040-008	WASHER, Hardened Flat 1/2
9	4	P0003-08-000	NUT, 1/2
10	1	P0300-386	FITTING, 06MFOR-06MB-06MFOR
11	2	P0300-362	FITTING, 04MFOR-04MB
12	1	A10389A-016	FITTING, 12MOR-12MB
13	2	P0300-329	FITTING, 12MFOR-12MB

* Refer to section 8, Motors for parts information.

P100Q HYDRAULIC ASSEMBLY, A42683A
P100Q POWER PACK (SN FA42440F-73 & BEFORE)

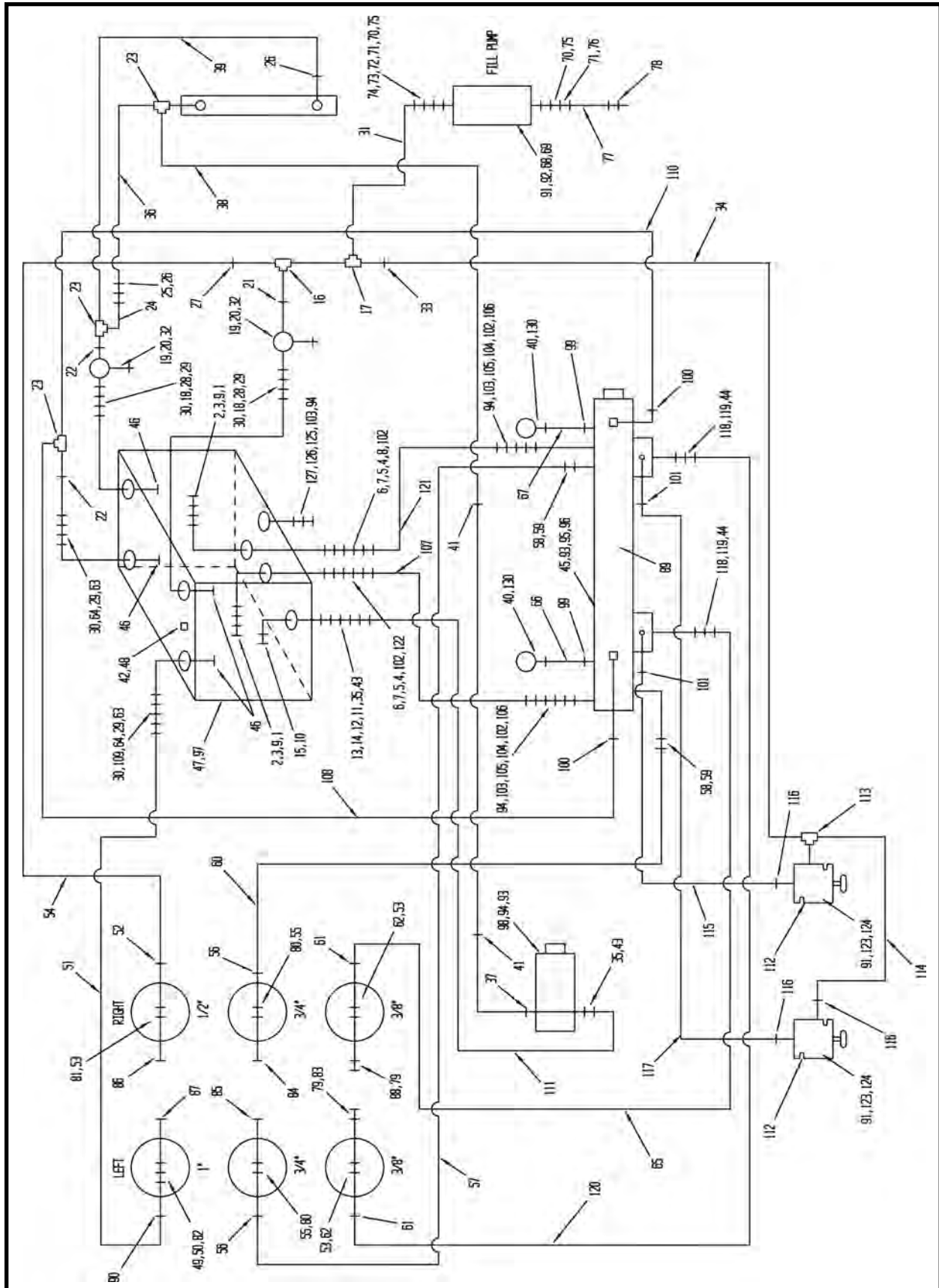


P100Q HYDRAULIC ASSEMBLY, A42683A
P100Q POWER PACK (SN FA42440F-73 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42683A	ASSEMBLY, P100Q Hydraulic
1*	2	P0309-153	STRAINER
2	2	P0402-008	NIPPLE, Close 2"
3	2	P0412-008A	ELBOW, 90 Degree
4*	2	P0302-434	VALVE, 2" ORB Suction Ball
5*	2	P0300-444	ORING, 32OR
6*	2	P0300-443	FITTING, 32CFHS
7*	2	A42606P	FITTING, 2" Ball Valve
8	1	P0220-224	FITTING, 32 INSERT-32MB
9	2	P0413-015	BUSHING
10	1	P0412-007A	ELBOW, 90 Degree
11*	1	P0302-418	VALVE, 1-1/4" ORB Suction Ball
12*	1	P0300-447	ORING, 20OR
13*	1	P0300-446	FITTING, 24SFO
14*	1	P0300-445	FITTING, 20MJ-24FL
15	1	A42511P	RETURN PIPE
16*	1	P0300-513	FITTING, 10MFOR-10MFOR-10MB
17*	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
18*	2	P0303-280	ELBOW, 90 Degree
19	2	P0309-172	FILTER ELEMENT
20	2	P0309-144B	HEAD W/25 PSI BYPASS
21*	1	P0300-451	FITTING, 20MB-10FB
22*	2	P0300-380	FITTING, 20MB-16FB
23*	3	P0300-419	FITTING, 16MFOR-16MB-16MFOR
24*	1	P0300-452	FITTING, 16MB-14FFORX90
25	1	P0302-488	CHECK VALVE
26*	2	P0300-319	FITTING, 16MFOR-16MB
27*	1	P0300-389	FITTING, 10MFOR-10FFORX90
28	8	P0001-07-005	BOLT, 7/16 UNC x 1.25
29	16	P0045-007	WASHER, Lock 7/16
30*	4	P0300-458	FITTING, 20FLOR
31**	1	A10460A-021	HOSE ASSEMBLY, 1/2 x 21
32	2	P0301-105	GAUGE, Filter Indicator
33*	1	P0300-527	FITTING, 10FFORX-08MFOR
34**	1	A10419A-054	HOSE ASSEMBLY, 3/8 x 54
35*	2	P0220-223	FITTING, 20 INSERT-90-20MB
36**	1	A10445A-034	HOSE ASSEMBLY, 1 x 34
37*	1	P0300-371	FITTING, 16MFOR-16MB90
38**	1	A10446A-102	HOSE ASSEMBLY, 1 x 102
39**	1	A10445A-056	HOSE ASSEMBLY, 1 x 56
40	2	P0301-142	GAUGE, 5000 psi
41	2	A42667A	HOSE CLAMP
42	1	P0309-185	BREATHER, Pressure Vacuum
43	2	P0201-205	T CLAMP
44*	2	P0300-268	FITTING, 04MJ-04FP
45***^	1	P0303-286	PUMP (For P100Q SN FA42440F-3 & After)
46	4	A40718P	PIPE, Return
47	1	P0301-138	SIGHT GAUGE, 18"
48*	1	P0300-545	FITTING, 10MB-6FP
49*	1	P0300-441	FITTING, 16MJ-16MJ

(continued on next page)

P100Q HYDRAULIC ASSEMBLY, A42683A
P100Q POWER PACK (SN FA42440F-73 & BEFORE)



P100Q HYDRAULIC ASSEMBLY, A42683A
P100Q POWER PACK (SN FA42440F-73 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
50	1	P0300-437	SWIVEL JOINT
51**	1	A10450A-040	HOSE ASSEMBLY, 1 x 40
52	1	P0300-438	FITTING, 08MJ-08MJ
53	3	P0300-435	SWIVEL JOINT
54**	1	A10420A-048	HOSE ASSEMBLY, 1/2 x 48
55	2	P0300-436	SWIVEL JOINT
56*	2	P0300-440	FITTING, 12MJ-12MJ
57**	1	A10428A-034	HOSE ASSEMBLY, 3/4 x 34
58*	2	P0300-421	FITTING, 20FLH6K-16MJ90
59*	2	P0300-420	FITTING, 20SFXO
60**	1	A10428A-028	HOSE ASSEMBLY, 3/4 x 28
61*	2	P0300-439	FITTING, 08MJ-06MJ
62*	2	P0300-454	FITTING, 08FJ-06MJ
63*	2	P0303-278	ELBOW
64	8	P0001-07-010	BOLT, 7/16 x 2.5
65**	1	A10371A-028	HOSE ASSEMBLY, 1/4 x 28
66**	1	A10325A-022	HOSE ASSEMBLY, 1/4 x 22
67**	1	A10325A-025	HOSE ASSEMBLY, 1/4 x 25
68	1	A42685P	PLATE
69^	1	P0303-281	PUMP, Transfer
70	2	P0093-004	FITTING, Hose
71*	2	P0300-012	FITTING, 12MP-08FPS
72*	1	P0300-048	FITTING, 08MP-08MP
73*	1	P0302-185	VALVE, 1/2 Ball
74*	1	P0300-382	FITTING, 08MFOR-08MP
75	2	P0093-005	WASHER
76*	1	P0300-029	FITTING, 08MP-08FP45
77**	1	A10461A-036	HOSE ASSEMBLY, 1/2 x 36
78	1	P0417-003	CAP, Pipe 1/2 Hex
79**	2	A10302A-600	HOSE ASSEMBLY, 3/8 x 600
80**	2	A10463A-600	HOSE ASSEMBLY, 3/4 x 600
81**	2	A10462A-600	HOSE ASSEMBLY, 1/2 x 600
82**	1	A10451A-600	HOSE ASSEMBLY, 1 x 600
83	1	P0100-040	COUPLER, Female 3/8
84	1	P0100-037	COUPLER, Quick Male 3/4
85	1	P0100-036	COUPLER, Quick Female 3/4
86	1	P0100-039	COUPLER, Male 1/2
87	1	P0100-035	COUPLER, Quick Male 1
88	1	P0100-041	COUPLER, Male 3/8
89	1	A42525A	SUPPORT, Pump
90*	1	P0300-514	FITTING, 16MJ-16FJX90
91	8	P0040-004	WASHER, Hardened 1/4
92	4	P0001-04-005	BOLT, 1/4 UNC x 1.25
93	6	P0040-008	WASHER, Hardened 1/2
94	14	P0001-08-006	BOLT, 1/2 UNC x 1.5
95	4	P0003-08-000	NUT, 1/2
96	4	P0025-005	STUD
97	200 QT	P0126-001	OIL, Hydraulic
98^	1	P0303-250	PUMP, Gear
99*	2	P0300-362	FITTING, 04MFOR-04MB

(continued on next page)

P100Q HYDRAULIC ASSEMBLY, A42683A
P100Q POWER PACK (SN FA42440F-73 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
100*	2	P0300-434	FITTING, 16MFOR-16MB45
101*	2	P0300-311	FITTING, 04MFOR-06MB90
102	4	P0201-180	CLAMP, T-Bolt
103	12	P0045-008	WASHER, Lock 1/2
104*	2	P0300-518	FLANGE
105*	2	P0300-460	ORING, 32FLOR
106	2	P0220-210	FITTING, 32 INSERT-90-CODE 61-20FL
107*	1	P0201-226-020	HOSE, Suction 2
108**	1	A10342A-060	HOSE ASSEMBLY, 1 x 60
109*	1	P0300-450	FITTING, 16MFOR-20MB90
110**	1	A10448A-054	HOSE ASSEMBLY, 1 x 54
111*	1	P0201-227-019	HOSE, Return 1.25
112^^	2	P0302-402	VALVE, Relief
113*	1	P0300-386	FITTING, 06MFOR-06MB-06MFOR
114**	1	A10338A-018	HOSE ASSEMBLY, 1/4 x 18
115**	1	A10326A-022	HOSE ASSEMBLY, 1/4 x 22
116*	3	P0300-310	FITTING, 04MFOR-06MB
117**	1	A10326A-026	HOSE ASSEMBLY, 1/4 x 26
118*	2	P0300-528	FITTING, 06MB-04FP90
119	2	P0309-180	FILTER, Load Sense (Includes item 119a)
119a	2	P0309-180A	ELEMENT, Filter
120**	1	A10371A-046	HOSE ASSEMBLY, 1/4 x 46
121*	1	P0201-226-024	HOSE, Suction 2
122	1	P0220-222	FITTING, 32 INSERT-90-32MB
123	4	P0001-04-008	BOLT, 1/4 UNC x 2
124	4	P0003-04-000	NUT, 1/4
125*	1	P0300-516	24SFW
126*	1	P0300-517	PLUG, 24FOP
127*	1	P0300-459	ORING, 24OR
128	-	A41057A	KIT, HOSE
129	-	A41058A	KIT, ADAPTER
130	2	P0300-594	ADAPTOR, 4FB-4MFFOR
131	-	-	-
132	6	P0017-06-323	SCREW, Machine 6-32 x .5

QT - Quart

* Items included in item 129, A41058A, Adaptor Kit

** Items included in item 128, A41057A, Hose Kit

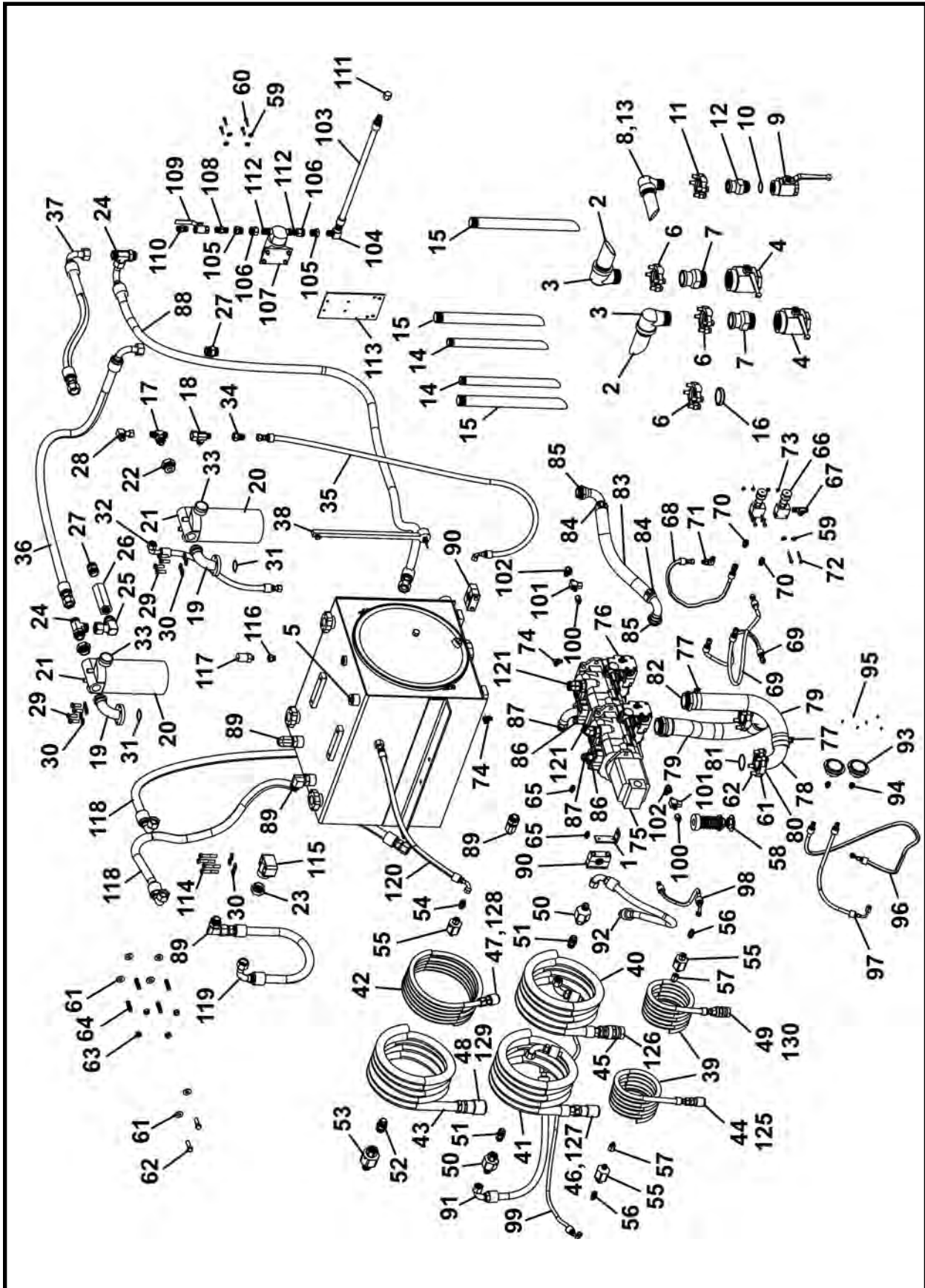
*** If Hartman pumps (P0303-259 and P0303-260) for P100Q SN FA42440F-1 and 2 require replacement, the pumps must be replaced with the current pump, P0303-286. Contact your Akkerman Aftermarket Support representative for more information.

^ Refer to Section 9, Pumps for parts information

^^ Refer to Section 7, Valves for parts information.

NOTES

P100Q HYDRAULIC ASSEMBLY, A42683A
P100Q POWER PACK (SN FA42440F-74 & AFTER)

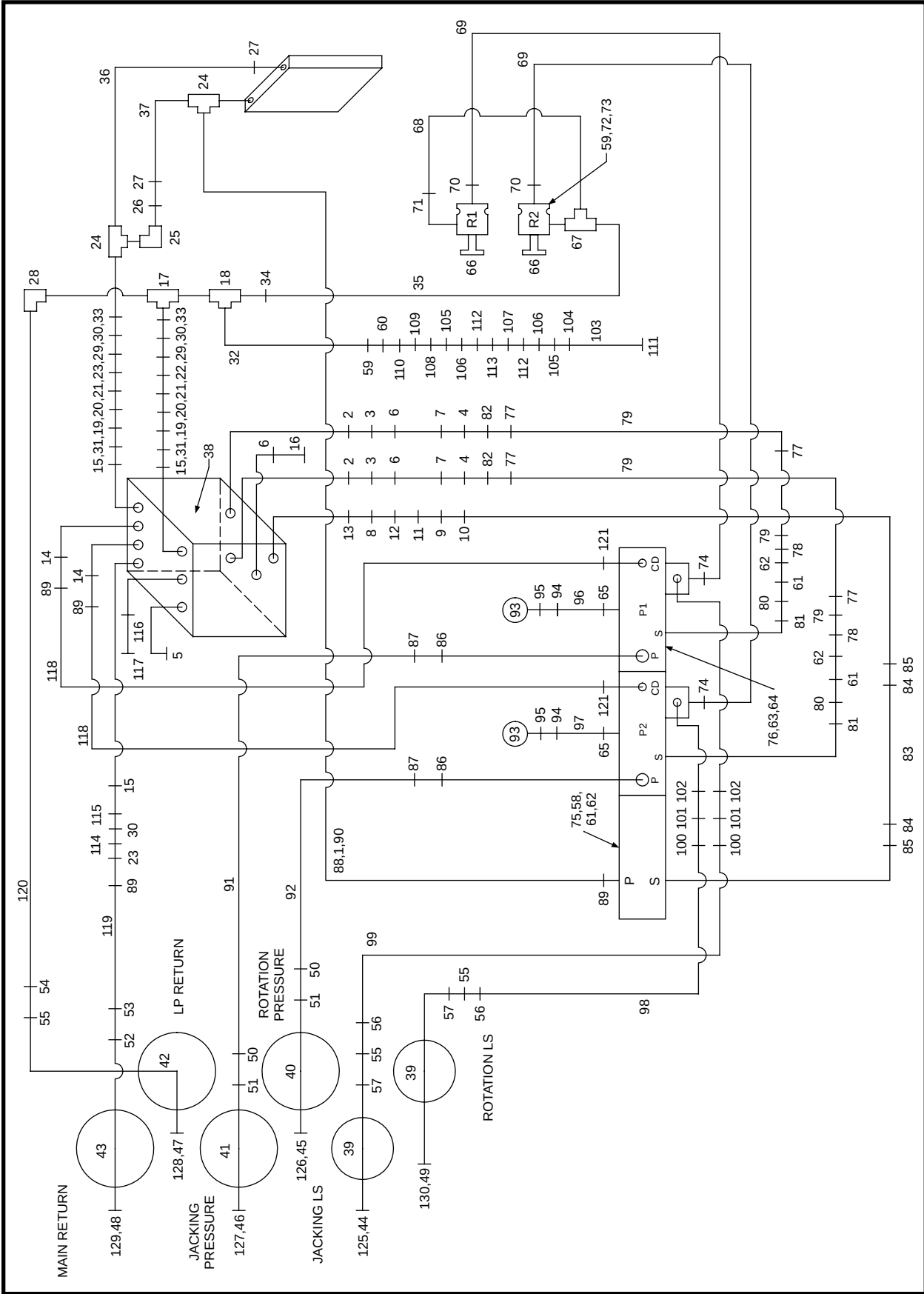


P100Q HYDRAULIC ASSEMBLY, A42683A
P100Q POWER PACK (SN FA42440F-74 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42683A	P100Q HYDRAULICS ASSEMBLY
1	1	A47094P	BRACKET, Hose Support
2	2	A40799P	PIPE, Return
3	2	P0412-008A	ELBOW, 90 Degree
4	2	P0302-434	VALVE, 2" ORB Suction Ball
5**	1	P0300-273	FITTING, 16MB-HHP
6**	3	P0300-443	FITTING, 32CFHS
7**	2	P0300-442	FITTING, 32FL-32MB
8	1	P0412-007A	ELBOW, 90 Degree
9	1	P0302-418	VALVE, 1-1/4 ORB Suction Ball
10**	1	P0300-447	ORING, 20OR
11**	1	P0300-446	FITTING, 24SFO
12**	1	P0300-445	FITTING, 20MJ-24FL
13	1	A42511P	PIPE, Return
14	2	A44955P	PIPE, Return
15	3	A40718P	PIPE, Return
16**	1	P0300-519	PLUG, Flange
17**	1	P0300-513	FITTING, 10MFOR-10MFOR-10MB
18**	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
19	2	P0303-280	ELBOW, 90 Degree
20	2	P0309-172	FILTER ELEMENT
21	2	P0309-144B	HEAD W/25 PSI BYPASS SAE
22**	1	P0300-451	FITTING, 20MB-10FB
23**	2	P0300-380	FITTING, 20MB-16FB
24**	2	P0300-419	FITTING, 16MFOR-16MB-16MFOR
25**	1	P0300-452	FITTING, 16FFORX-16MB90
26	1	P0302-488	VALVE, Check
27**	2	P0300-319	FITTING, 16MFOR-16MB
28**	1	P0300-389	FITTING, 10MFOR-10FFORX90
29	8	P0001-07-005	BOLT, Hex 7/16 UNC x 1.25
30	12	P0040-007	WASHER, Hardened Flat 7/16
31**	2	P0300-458	ORING, 20FLOR
32*	1	A10460A-021	HOSE ASSEMBLY, 1/2 x 21
33	2	P0301-105	GAUGE, Filter Indicator
34**	1	P0300-527	FITTING, 10FFORX-08MFOR
35*	1	A10089A-047	HOSE ASSEMBLY, 3/8 x 47
36*	1	A10445A-056	HOSE ASSEMBLY, 1 x 56
37*	1	A10445A-034	HOSE ASSEMBLY, 1 x 34
38	1	P0301-138	GAUGE, Sight
39*	2	A09949A-600	HOSE ASSEMBLY, 3/8 x 600
40*	1	A09824A-600-R	HOSE ASSEMBLY, 3/4 x 600 Red
41*	1	A10303A-600-B	HOSE ASSEMBLY, 3/4 x 600 Blue
42*	1	A10462A-600	HOSE ASSEMBLY, 1/2 x 600
43*	1	A10451A-600	HOSE ASSEMBLY, 1 x 600
44	1	P0100-110	COUPLER, 3/8 QD
45	1	P0100-099	COUPLER, Female 1
46	1	P0100-103	COUPLER, HALF, FEMALE 3/4"
47	1	P0100-111	NIPPLE, 1/2" QD
48	1	P0100-100	NIPPLE HALF, MALE 1"
49	1	P0100-109	NIPPLE, 3/8 QD

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P100Q POWER PACK (SN FA42440F-74 & AFTER)



P100Q HYDRAULIC ASSEMBLY, A42683A
P100Q POWER PACK (SN FA42440F-74 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
50	2	P0300-436	SWIVEL JOINT
51**	2	P0300-440	FITTING, 12MJ-12MJ
52**	1	P0300-441	FITTING, 16MJ-16MJ
53	1	P0300-437	SWIVEL JOINT
54**	1	P0300-438	FITTING, 08MJ-08MJ
55	3	P0300-435	SWIVEL JOINT
56**	2	P0300-439	FITTING, 08MJ-06MJ
57**	2	P0300-454	FITTING, 08FJ-06MJ
58	1	A46899A	SUPPORT, Short Pump
59	8	P0040-004	WASHER, Hardened Flat 1/4
60	4	P0001-04-005	BOLT, Hex 1/4 UNC x 1.25
61	14	P0040-008	WASHER, Hardened Flat 1/2
62	10	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
63	4	P0003-08-000	NUT, Hex 1/2
64	4	P0025-002A	STUD, 1/2 UNC x 1.5
65**	2	P0300-362	FITTING, 04MFOR-04MB
66^	2	P0302-402	VALVE, Relief 5000 PSI
67**	1	P0300-386	FITTING, 06MFOR-06MB-06MFOR
68*	1	A10059A-018	HOSE ASSEMBLY, 1/4 x 18
69*	2	A10326A-022	HOSE ASSEMBLY, 1/4 x 22
70**	2	P0300-310	FITTING, 04MFOR-06MB
71**	1	P0300-311	FITTING, 04MFFOR-06MB90
72	4	P0001-04-008	BOLT, Hex 1/4 UNC x 2
73	4	P0003-04-000	NUT, Hex 1/4
74**	2	P0300-427	FITTING, 04MFOR-04MB90
75***	1	P0303-250	PUMP, Cooling
76***	1	P0303-286	PUMP, Jacking/Rotation
77	4	P0201-180	CLAMP, T-Bolt
78	2	P0220-210	FITTING, 32 Insert-90-Code 61-20FL
79*	2	P0201-226-020	HOSE, Suction 2 x 20
80**	2	P0300-518	FLANGE
81**	2	P0300-460	ORING, 32FLOR
82	2	P0220-224	FITTING, 32 Insert-32MB
83*	1	P0201-227-019	RETURN LINE 1-1/4
84	2	P0201-205	T-CLAMP
85	2	P0220-223	FITTING, 20 INSERT-90-20MB
86**	2	P0300-420	FITTING, 20SF XO
87**	2	P0300-421	FITTING, 20FLH6K-16MJ90
88*	1	A10445A-102	HOSE ASSEMBLY, 1 x 102
89**	4	P0300-371	FITTING, 16MFOR-16MB90
90	2	A42667A	CLAMP, Hose 1-1/2
91*	1	A10428A-034	HOSE ASSEMBLY, 3/4 x 34
92*	1	A10428A-028	HOSE ASSEMBLY, 3/4 x 28
93	2	P0301-142	GAUGE, 5000 PSI 2.5 7/16 MORB
94**	2	P0300-594	FITTING, 4FB-4MFFOR
95	6	P0017-06-323	SCREW, Machine 6-32 x 1/2
96*	1	A10325A-022	HOSE ASSEMBLY, 1/4 x 22
97*	1	A10325A-020	HOSE ASSEMBLY, 1/4 x 20
98*	1	A10371A-028	HOSE ASSEMBLY, 1/4 x 28
99*	1	A10371A-046	HOSE ASSEMBLY, 1/4 x 46

(continued on next page)

P100Q HYDRAULIC ASSEMBLY, A42683A
P100Q POWER PACK (SN FA42440F-74 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
100**	2	P0300-268	FITTING, 04MJ-04FP
101	2	P0309-180	FILTER
102**	2	P0300-528	FITTING, 06MB-04FP90
103*	1	A10461A-036	HOSE ASSEMBLY, 1/2 x 36
104**	1	P0300-032	FITTING, 08MP-08FP90 BRAZED
105**	2	P0300-012	FITTING, 12MP-08FPS
106	2	P0093-004	FITTING, Hose
107***	1	P0303-281	PUMP, Transfer
108**	1	P0300-048	FITTING, 08MP-08MP
109	1	P0302-185	VALVE, 1/2 Ball
110**	1	P0300-382	FITTING, 08MFOR-08MP
111	1	P0417-003	CAP, Pipe 1/2 Hex
112	2	P0093-005	WASHER, Neoprene
113	1	A44979P	MOUNT, Transfer Pump
114	4	P0001-07-010	BOLT, Hex 7/16 UNC x 2.5
115	1	P0303-278	ELBOW
116**	1	P0300-545	FITTING, 10MB-6FP
117	1	P0309-185	BREATHER, Pressure Vacuum
118*	2	A10342A-044	HOSE ASSEMBLY, 1 x 44
119*	1	A10370A-037	HOSE ASSEMBLY, 1 x 37
120*	1	A09975A-048	HOSE ASSEMBLY, 1/2 x 48
121**	2	P0300-434	FITTING, 16MFOR-16MB45
122	200 QT	P0126-001	OIL, Hydraulic
123	-	A41057A	KIT, Hose
124	-	A41058A	KIT, Fitting
125	1	P0100-110A	PLUG, Plastic
126	1	P0100-099A	PLUG, Aluminum
127	1	P0100-103A	PLUG, Aluminum Protective
128	1	P0100-111A	PLUG, Aluminum Protective
129	1	P0100-100A	CAP, Aluminum Protective
130	1	P0100-109A	CAP, Plastic

QT - Quart

* Items included in item 123, A41057A, Hose Kit

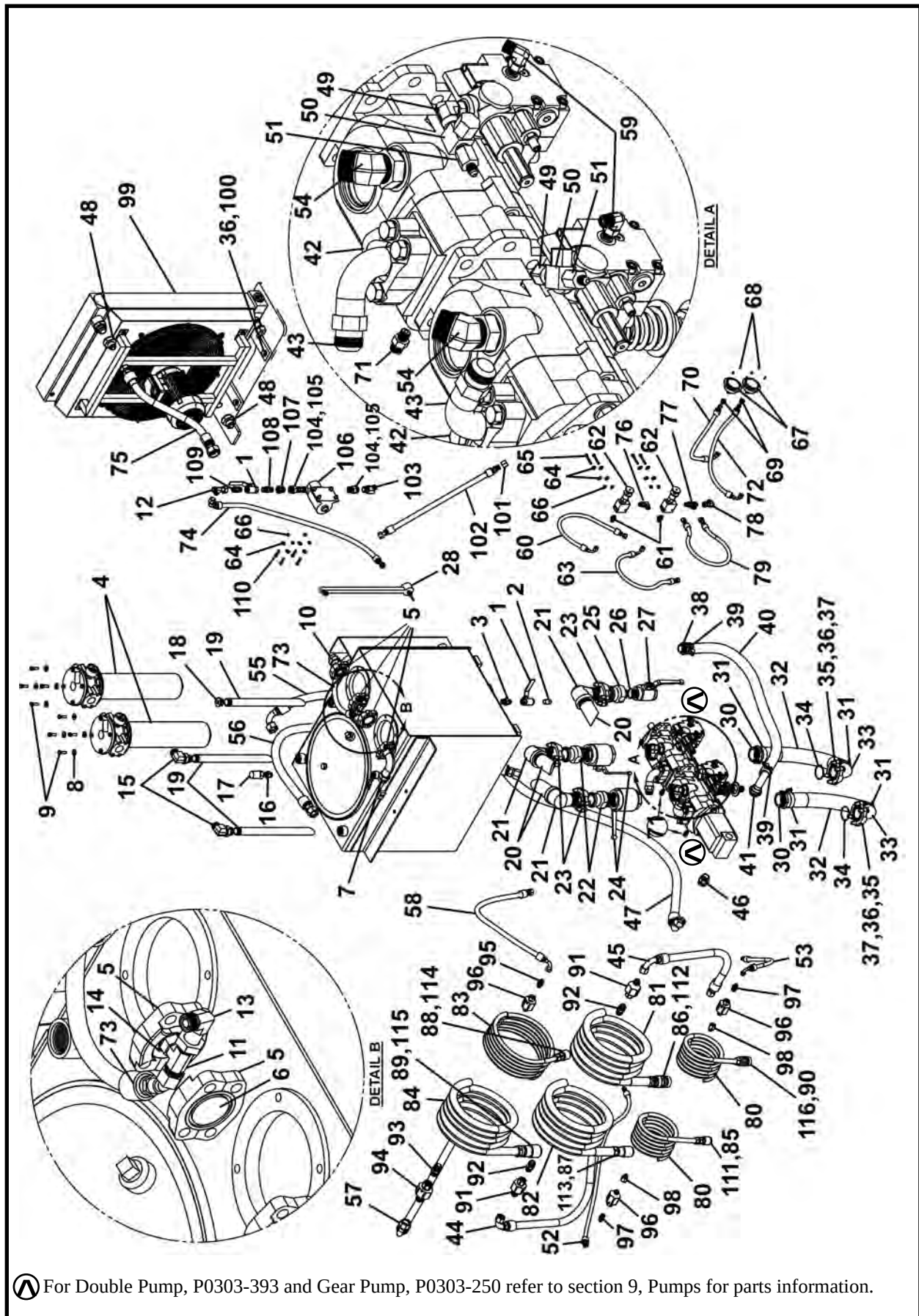
** Items included in item 124, A41058A, Fitting Kit

*** Refer to Section 9, Pumps for parts information.

^ Refer to Section 7, Valves for parts information.

NOTES

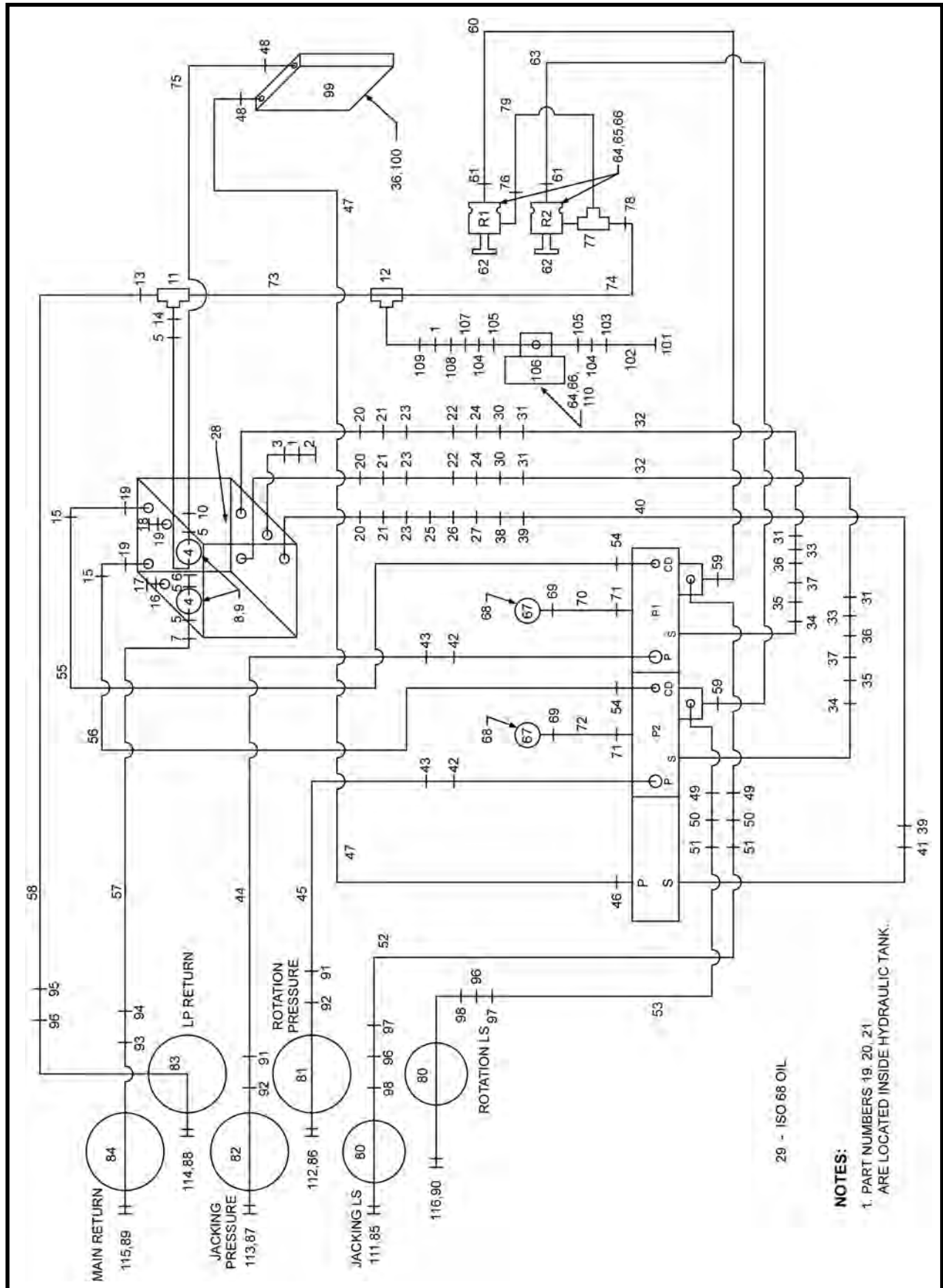
P100E HYDRAULIC ASSEMBLY, A48132A
P100E POWER PACK



P100E HYDRAULIC ASSEMBLY, A48132A
P100E POWER PACK

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A48132A	ASSEMBLY, Hydraulics - P100E
1	2	P0302-185	VALVE, Ball 1/2
2	1	P0416-003	PLUG, Square Head 1/2
3	1	P0300-222	FITTING, 10MB-08MP
4	2	P0309-212	FILTER, In-Tank
5	4	P0300-446	FLANGE KIT, 24SFO
6	1	P0300-517	FITTING, 24FOP
7	1	P0300-845	ADAPTER, 20MFFOR-24L90
8	8	P0040-006	WASHER, Hardened Flat 3/8
9	8	P0001-06-005	BOLT, Hex 3/8 UNC x 1.25
10	1	P0300-844	FITTING, 20MFFOR-24FL
11	1	P0300-726	FITTING, 08MFOR-08MFOR-08MB
12	1	P0300-318	FITTING, 08MFOR-08FFORX-08MFOR
13	1	P0300-317	FITTING, 08MFOR-08FFORX90
14	1	A48133P	PLUG
15	2	P0300-371	FITTING, 16MFOR-16MB90
16	1	P0300-545	FITTING, 10MB-6FP
17	1	P0309-185	BREATHER, Pressure Vacuum
18	1	P0300-273	PLUG, 16MB-HHP
19	3	A44955P	PIPE, Return 1
20	3	A40799P	PIPE, Return 6
21	3	P0412-008A	ELBOW, Street - 90 Degree
22	2	P0300-442	FITTING, 32FL-32MB
23	3	P0300-443	FITTING, 32CFHS
24	2	P0302-434	VALVE, Ball 2" ORB
25	1	P0300-848	FITTING, 20MJ-32FL
26	1	P0300-447	ORING, 20OR
27	1	P0302-418	VALVE, Ball 1-1/4 ORB
28	1	P0301-138	GAUGE, Sight
29	224 QT	P0126-038	OIL, Hydraulic ISO 68
30	2	P0220-224	FITTING, 32 INSERT-32MB
31	4	P0201-180	CLAMP, T-Bolt
32	2	P0201-226-020	HOSE, Suction 2 x 20
33	2	P0220-210	FITTING, 32 INSERT-90-CODE 61-20FL
34	2	P0300-460	ORING, 32FLOR
35	2	P0300-518	FLANGE
36	12	P0040-008	WASHER, Hardened Flat 1/2
37	8	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
38	1	P0220-340	INSERT, Beaded 1-1/4
39	2	P0201-205	CLAMP, T
40	1	P0201-227-040	LINE, Return 1-1/4
41	1	P0220-223	FITTING, 20 INSERT-90-20MB
42	2	P0300-420	FLANGE KIT, 20SFXO
43	2	P0300-421	FITTING, 20FLH6K-16MJ90
44	1	A10428A-035	HOSE ASSEMBLY, 3/4 x 35
45	1	A10428A-034	HOSE ASSEMBLY, 3/4 x 34
46	1	P0300-319	FITTING, 16MFOR-16MB
47	1	A10044A-075	HOSE ASSEMBLY, 1 x 75
48	2	P0300-849	FITTING, 20FJ-16MJ
49	2	P0300-528	FITTING, 06MB-04FP90
50	2	P0309-180	FILTER
51	2	P0300-268	FITTING, 04MJ-04FP
52	1	A10371A-044	HOSE ASSEMBLY, 1/4 x 44
53	1	A10371A-023	HOSE ASSEMBLY, 1/4 x 23
54	2	P0300-434	FITTING, 16MFOR-16MB45
55	1	A10342A-048	HOSE ASSEMBLY, 1 x 48
56	1	A10374A-078	HOSE ASSEMBLY, 1 x 78
57	1	A09852A-034	HOSE ASSEMBLY, 1 x 34

P100E HYDRAULIC ASSEMBLY, A48132A P100E POWER PACK

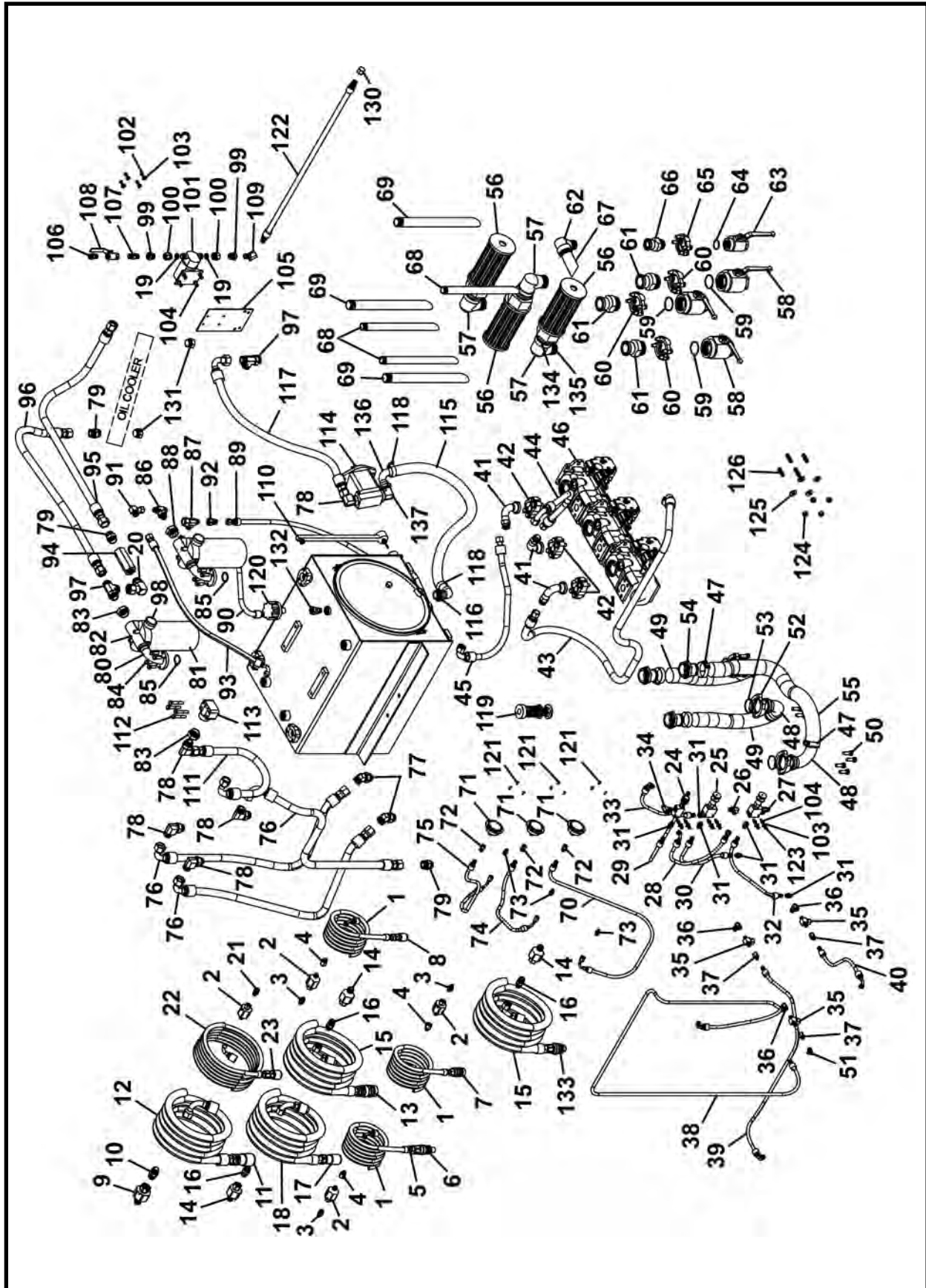


P100E HYDRAULIC ASSEMBLY, A48132A
P100E POWER PACK

ITEM	QTY	PART NO.	DESCRIPTION
58	1	A09853A-034	HOSE ASSEMBLY, 1/2 x 34
59	2	P0300-427	FITTING, 04MFOR-04MB90
60	1	A10325A-011	HOSE ASSEMBLY, 1/4 x 11
61	2	P0300-310	FITTING, 04MFOR-06MB
62*	2	P0302-402	VALVE, Relief
63	1	A10325A-013	HOSE ASSEMBLY, 1/4 x 13
64	12	P0040-004	WASHER, Hardened Flat 1/4
65	4	P0001-04-008	BOLT, Hex 1/4 UNC x 2
66	8	P0003-04-000	NUT, 1/4 UNC
67	2	P0301-142	GAUGE, 5000 PSI
68	6	P0017-06-323	SCREW, Machine 6-32 x 1/2
69	2	P0300-594	FITTING, 4FB-4MFFOR
70	1	A10325A-020	HOSE ASSEMBLY, 1/4 x 20
71	2	P0300-362	FITTING, 04MFOR-04MB
72	1	A10325A-026	HOSE ASSEMBLY, 1/4 x 26
73	1	A09911A-029	HOSE ASSEMBLY, 1/2 x 29
74	1	A10312A-038	HOSE ASSEMBLY, 3/8 x 38
75	1	A09854A-024	HOSE ASSEMBLY, 1 x 24
76	1	P0300-311	FITTING, 04MFFOR-06MB90
77	1	P0300-386	FITTING, 06MFOR-06MB-06MFOR
78	1	P0300-603	FITTING, 06MFOR-06FFORX90
79	1	A10059A-013	HOSE ASSEMBLY, 1/4 x 13
80	2	A09949A-600	HOSE ASSEMBLY, 3/8 x 600
81	1	A09824A-600-R	HOSE ASSEMBLY, 3/4 x 600 Red
82	1	A10303A-600-B	HOSE ASSEMBLY, 3/4 x 600 Blue
83	1	A10462A-600	HOSE ASSEMBLY, 1/2 x 600
84	1	A10451A-600	HOSE ASSEMBLY, 1 x 600
85	1	P0100-110	COUPLER, QD 3/8
86	1	P0100-099	COUPLER, Half, Female 1
87	1	P0100-103	COUPLER, Half, Female 3/4
88	1	P0100-111	NIPPLE, QD 1/2
89	1	P0100-100	NIPPLE, Half, Male 1
90	1	P0100-109	NIPPLE, QD 3/8
91	2	P0300-436	SWIVEL JOINT
92	2	P0300-440	FITTING, 12MJ-12MJ
93	1	P0300-441	FITTING, 16MJ-16MJ
94	1	P0300-437	SWIVEL JOINT
95	1	P0300-438	FITTING, 08MJ-08MJ
96	3	P0300-435	SWIVEL JOINT
97	2	P0300-439	FITTING, 08MJ-06MJ
98	2	P0300-454	FITTING, 08FJ-06MJ
99	1	P0093-033	HEAT EXCHANGER
100	4	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25
101	1	P0417-003	CAP, Hex Pipe 1/2
102	1	A10080A-026	HOSE ASSEMBLY, 1/2 x 26
103	1	P0300-768	FITTING, 08MFFOR-12MP45
104	2	P0093-004	FITTING, Hose
105	2	P0093-005	WASHER, Neoprene
106**	1	P0303-281	PUMP, Transfer
107	1	P0300-012	FITTING, 12MP-08FPS
108	1	P0300-048	FITTING, 08MP-08MP
109	1	P0300-382	FITTING, 08MFOR-08MP
110	4	P0001-04-005	BOLT, Hex 1/4 UNC x 1.25
111	1	P0100-110A	PLUG, Plastic
112	1	P0100-099A	PLUG, Aluminum
113	1	P0100-103A	PLUG, Aluminum Protective
114	1	P0100-111A	PLUG, Aluminum Protective
115	1	P0100-100A	CAP, Aluminum Protective
116	1	P0100-109A	CAP, Plastic

QT - Quart * Refer to section 7, Valves for parts information ** Refer to section 9, Pumps for parts information.

P150Q HYDRAULIC ASSEMBLY, A44988A
P150Q POWER PACK (SN FA40035F-7 & BEFORE)

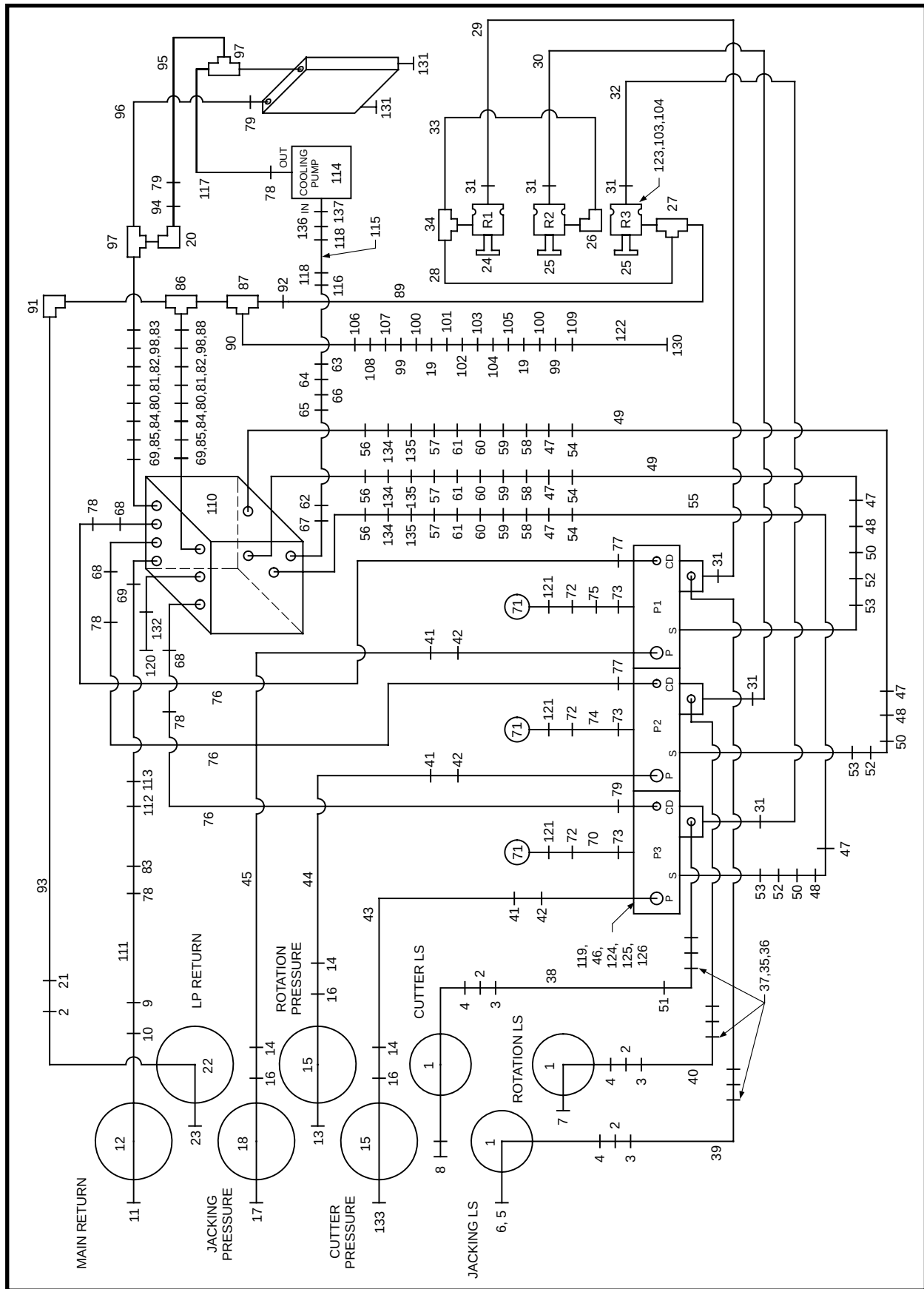


P150Q HYDRAULIC ASSEMBLY, A44988A**P150Q POWER PACK (SN FA40035F-7 & BEFORE)**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44988A	HYDRAULICS ASSEMBLY P150Q
1*	3	A10302A-600	HOSE ASSEMBLY, 3/8 x 600
2	4	P0300-435	SWIVEL JOINT
3**	3	P0300-439	FITTING, 08MJ-06MJ
4**	3	P0300-454	FITTING, 08FJ-06MJ
5**	1	P0300-677	FITTING, 12MB-6FB
6	1	P0100-071	BODY
7^^	1	P0100-040	COUPLER, Female 3/8
8^^	1	P0100-041	COUPLER, Male 3/8
9	1	P0300-437	SWIVEL JOINT
10**	1	P0300-441	FITTING, 16MJ-16MJ
11	1	P0100-035	COUPLER, Male Quick 1
12*	1	A10451A-600	HOSE ASSEMBLY, 1 x 600
13^^^	1	P0100-036	COUPLER, Female Quick 3/4
14	3	P0300-436	SWIVEL JOINT
15*	2	A10463A-600	HOSE ASSEMBLY, 3/4 x 600
16**	3	P0300-440	FITTING, 12MJ-12MJ
17	1	P0100-066	COUPLER, Male
18*	1	A10303A-600	HOSE ASSEMBLY, 3/4 x 600
19	2	P0093-005	WASHER, Neoprene
20**	1	P0300-615	FITTING, 16FFORX-16MB90
21**	1	P0300-438	FITTING, 08MJ-08MJ
22*	1	A10462A-600	HOSE ASSEMBLY, 1/2 x 600
23	1	P0100-111	NIPPLE, QD 1/2
24^	1	P0302-544	VALVE, Relief 6000 PSI
25^	2	P0302-402	VALVE, Relief 5000 PSI Max
26**	1	P0300-311	FITTING, 04MFFOR-06MB90
27**	1	P0300-386	FITTING, 06MFOR-06MB-06MFOR
28*	1	A10327A-022	HOSE ASSEMBLY, 1/4 x 22
29*	1	A10326A-027	HOSE ASSEMBLY, 1/4 x 27
30*	1	A10326A-015	HOSE ASSEMBLY, 1/4 x 15
31**	6	P0300-310	FITTING, 04MFOR-06MB
32*	1	A10326A-022	HOSE ASSEMBLY, 1/4 x 22
33*	1	A10314A-018	HOSE ASSEMBLY, 1/4 x 18
34**	1	P0300-376	FITTING, 06MFOR-06MFOR-06MB
35	3	P0309-180	FILTER
36**	3	P0300-528	FITTING, 06MB-04FP90
37**	3	P0300-268	FITTING, 04MJ-04FP
38*	1	A10371A-132	HOSE ASSEMBLY, 1/4 x 132
39*	1	A10371A-046	HOSE ASSEMBLY, 1/4 x 46
40*	1	A10371A-028	HOSE ASSEMBLY, 1/4 x 28
41**	3	P0300-421	FITTING, 20FLH6K-16MJ90
42**	3	P0300-420	FITTING, 20SF XO
43*	1	A09934A-048	HOSE ASSEMBLY, 3/4 x 48
44*	1	A09934A-028	HOSE ASSEMBLY, 3/4 x 28
45*	1	A10304A-038	HOSE ASSEMBLY, 3/4 x 38
46***	1	P0303-343	PUMP, Triple
47	6	P0201-180	CLAMP, T-Bolt
48	3	P0220-210	FITTING, 32 INSERT-90-CODE 61-20FL
49*	2	P0201-159-020	HOSE, Suction 2 x 20

(continued on next page)

P150Q HYDRAULIC ASSEMBLY, A44988A
P150Q POWER PACK (SN FA40035F-7 & BEFORE)



P150Q HYDRAULIC ASSEMBLY, A44988A**P150Q POWER PACK (SN FA40035F-7 & BEFORE)**

ITEM	QTY	PART NO.	DESCRIPTION
50	12	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
51**	1	P0300-271	FITTING, 04MJ-04FJX90
52**	3	P0300-518	FLANGE
53**	3	P0300-460	ORING, 32FLOR
54	3	P0220-224	FITTING, 32 INSERT-32MB
55*	1	P0201-159-036	HOSE, Suction 2 x 36
56	3	P0309-153	STRAINER
57	3	P0412-008A	ELBOW, Street 90 Degree 2
58	3	P0302-434	VALVE, ORB Suction Ball 2
59**	3	P0300-444	ORING, 32OR
60**	3	P0300-443	FITTING, 32CFHS
61**	3	P0300-442	FITTING, 32FL-32MB
62	1	P0412-007A	ELBOW, Street 90 Degree 1-1/2
63	1	P0302-418	VALVE, ORB Suction Ball 1-1/4
64**	1	P0300-447	ORING, 20OR
65**	1	P0300-446	FITTING, 24SFO
66**	1	P0300-445	FITTING, 20MJ-24FL
67	1	A42511P	PIPE, Return
68	3	A44955P	PIPE, Return
69	3	A40718P	PIPE, Return
70*	1	A10325A-023	HOSE ASSEMBLY, 1/4 x 23
71	3	P0301-146	GAUGE, 6000 PSI
72**	3	P0300-594	FITTING, 4FB-4MFFOR
73**	3	P0300-362	FITTING, 04MFOR-04MB
74*	1	A10325A-022	HOSE ASSEMBLY, 1/4 x 22
75*	1	A10325A-027	HOSE ASSEMBLY, 1/4 x 27
76*	3	A10343A-044	HOSE ASSEMBLY, 1 x 44
77**	2	P0300-434	FITTING, 16MFOR-16MB45
78**	5	P0300-371	FITTING, 16MFOR-16MB90
79**	3	P0300-319	FITTING, 16MFOR-16MB
80	2	P0303-280	ELBOW
81	2	P0309-172	ELEMENT, Filter
82	2	P0309-144B	HEAD, Filter W/25 PSI Bypass
83**	2	P0300-380	FITTING, 20MB-16FB
84	8	P0001-07-005	BOLT, Hex 7/16 UNC x 1.25
85**	2	P0300-458	ORING, 20FLOR
86**	1	P0300-513	FITTING, 10MFOR-10MFOR-10MB
87**	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
88**	1	P0300-451	FITTING, 20MB-10FB
89*	1	A10471A-047	HOSE ASSEMBLY, 3/8 x 47
90*	1	A10359A-026	HOSE ASSEMBLY, 1/2 x 26
91**	1	P0300-389	FITTING, 10MFOR-10FFORX90
92**	1	P0300-527	FITTING, 10FFORX-08MFOR
93*	1	A10357A-048	HOSE ASSEMBLY, 1/2 x 48
94	1	P0302-488	VALVE, Check
95*	1	A10374A-051	HOSE ASSEMBLY, 1 x 51
96*	1	A10374A-047	HOSE ASSEMBLY, 1 x 47
97**	2	P0300-419	FITTING, 16MFOR-16MB-16MFOR
98	2	P0301-105	GAUGE, Filter Indicator

(continued on next page)

P150Q HYDRAULIC ASSEMBLY, A44988A
P150Q POWER PACK (SN FA40035F-7 & BEFORE)

ITEM	QTY	PART NO.	DESCRIPTION
99**	2	P0300-012	FITTING, 12MP-08FPS
100	2	P0093-004	FITTING, Hose
101***	1	P0303-281	PUMP, Transfer
102	4	P0001-04-005	BOLT, Hex 1/4 UNC x 1.25
103	10	P0040-004	WASHER, Hardened Flat 1/4
104	10	P0003-04-000	NUT, Hex 1/4
105	1	A44979P	MOUNT, Transfer Pump
106**	1	P0300-382	FITTING, 08MFOR-08MP
107**	1	P0300-048	FITTING, 08MP-08MP
108	1	P0302-185	VALVE, Ball 1/2
109**	1	P0300-029	FITTING, 08MP-08FP45
110	1	P0301-138	GAUGE, Sight
111*	1	A10370A-037	HOSE ASSEMBLY, 1 x 37
112	4	P0001-07-010	BOLT, Hex 7/16 UNC x 2.5
113	1	P0303-278	ELBOW
114***	1	P0303-250	PUMP, Gear
115*	1	P0201-227-053	LINE, Return 1-1/4 x 53
116	1	P0220-223	FITTING, 20 INSERT-90-20MB
117*	1	A10343A-048	HOSE ASSEMBLY, 1 x 48
118	2	P0201-205	CLAMP, T
119	1	A46899A	SUPPORT, Pump
120	1	P0309-188	BREATHER, Reservoir
121	9	P0017-10-324	SCREW, Machine 10-32 x .5
122*	1	A10461A-040	HOSE ASSEMBLY, 1/2 x 40
123	6	P0001-04-008	BOLT, Hex 1/4 UNC x 2
124	4	P0003-08-000	NUT, Hex 1/2
125	4	P0040-008	WASHER, Hardened Flat 1/2
126	4	P0025-002A	STUD, 1/2 UNC x 1.75
127	240 QT	P0126-001	OIL, Hydraulic
128	-	A44989A	KIT, Hose
129	-	A44990A	KIT, Fitting
130	1	P0417-003	CAP, Pipe 1/2
131**	2	P0300-028	PLUG, 16MP-Plug-Solid Back
132**	1	P0300-208	FITTING, 10MB-12FPX
133^^	1	P0100-037	COUPLER, Male Quick 3/4
134	3	P0402-008	NIPPLE, Close 2
135	3	P0413-015	BUSHING
136	1	P0220-240	FITTING, 20GS-20FFORX90M
137	1	P0300-620	FITTING, 20MFOR-20MB90

LI - Linear Inch

QT - Quart

* Items included in item 128, A44989A, Hose Kit

** Items included in item 129, A44990A, Fitting Kit

*** Refer to Section 9, Pumps for parts information.

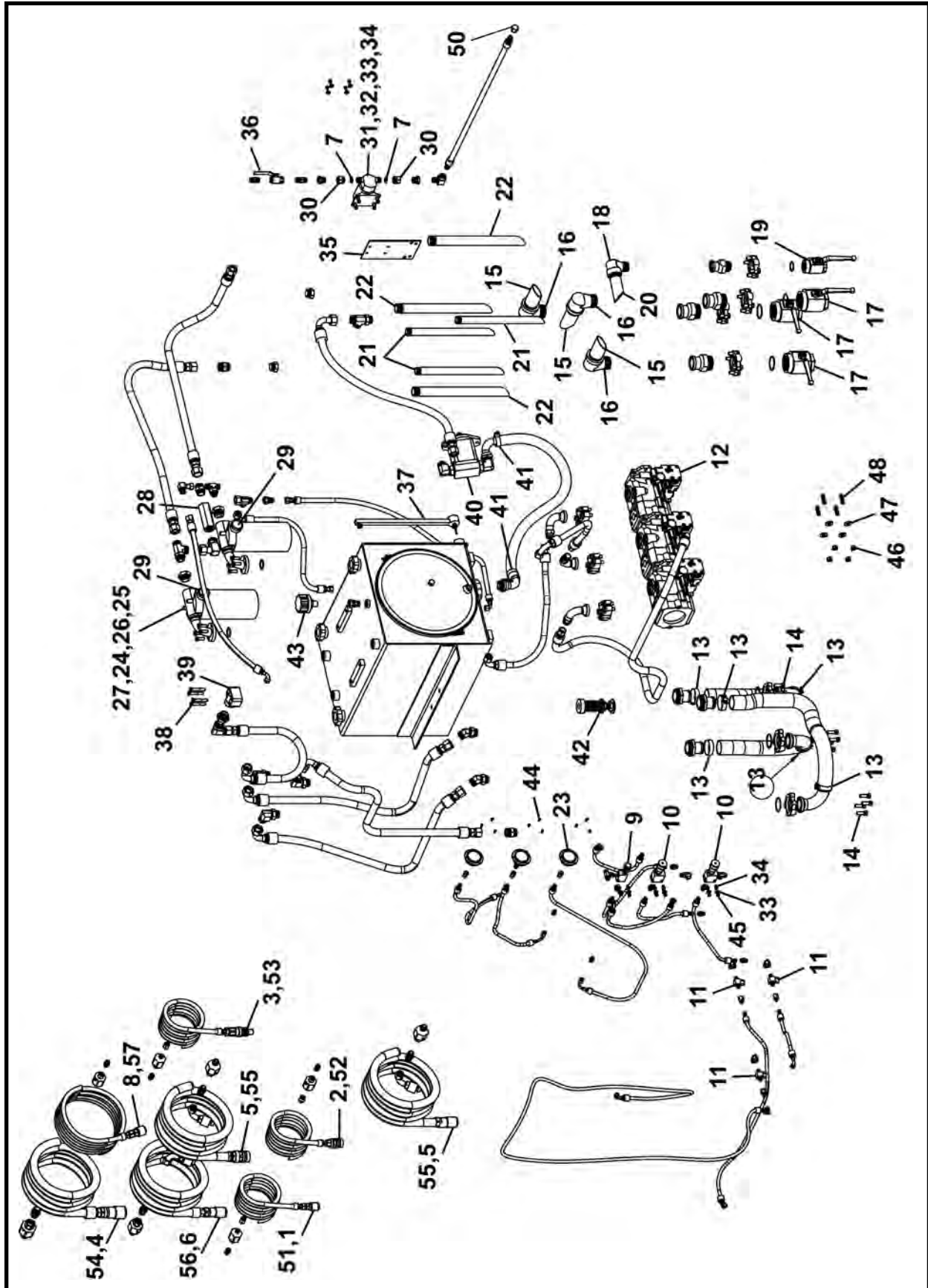
^ Refer to Section 7, Valves for parts information.

^^ If replacing QD item 7, P0100-040 and item 8, P0100-041 and will be used with the latest GBM frame QDs, items 7 and 8 must be replaced with QD P0100-112 AND requires adapter P0300-743 (08MB-06FB).

^^^ If replacing QD item 13, P0100-036 and item 133, P0100-037 and will be used with the latest GBM frame QDs, items 13 and 133 must be replaced with QD P0100-099 AND requires adapter P0300-587 (16MB-12FB).

NOTES

P150Q HYDRAULIC ASSEMBLY, A40766A
P150Q POWER PACK (SN FA40035F-8 & AFTER)



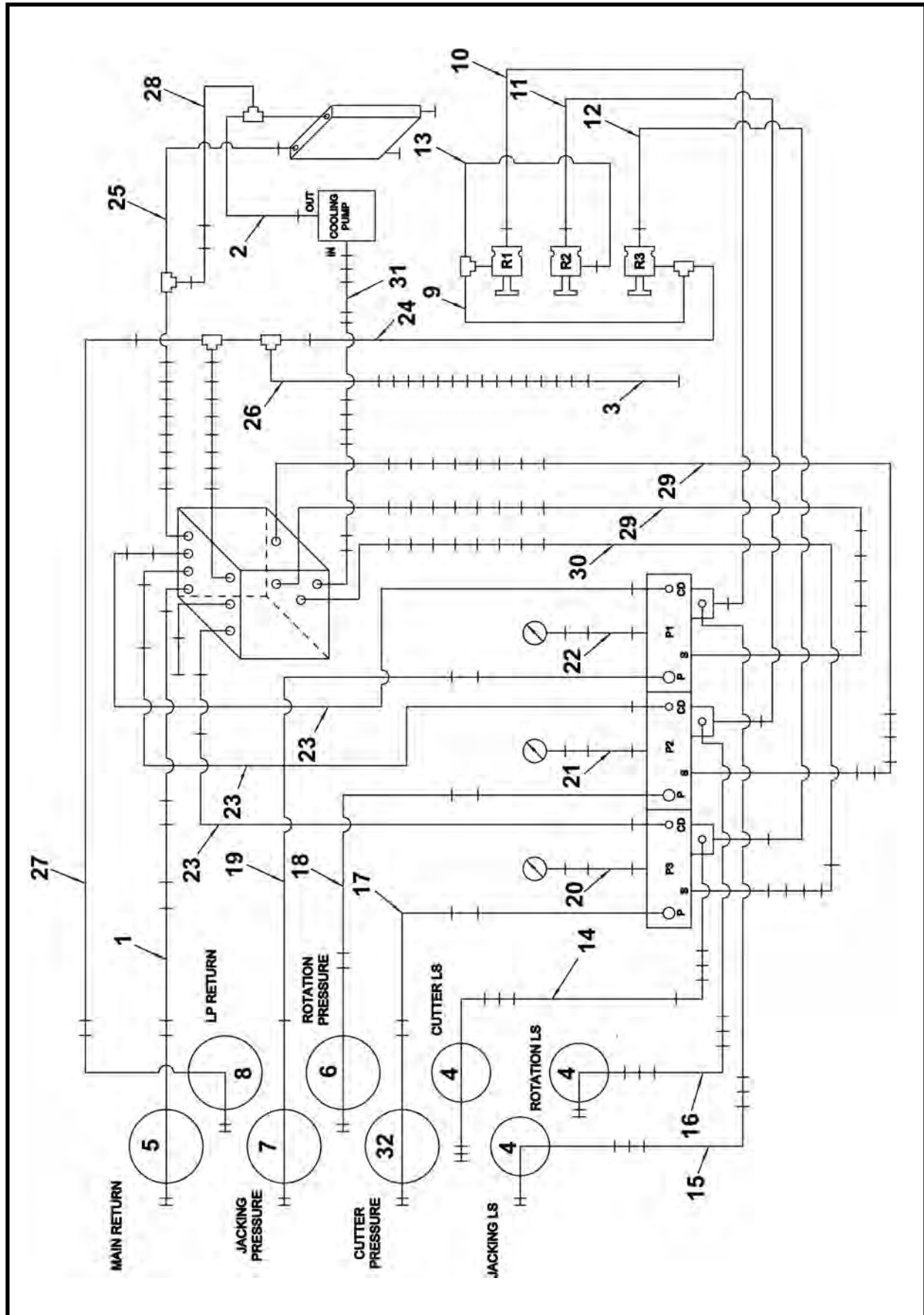
P150Q HYDRAULIC ASSEMBLY, A40766A
P150Q POWER PACK (SN FA40035F-8 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
0		A40766A	HYDRAULIC ASSEMBLY P150Q
1	1	P0100-110	COUPLER, QD 3/8
2	1	P0100-109	NIPPLE, QD 3/8
3	1	P0100-112	COUPLER, QD 1/2
4	1	P0100-100	NIPPLE, Half Male 1
5	2	P0100-099	COUPLER, Female Half 1
6	1	P0100-103	COUPLER, Female Half 3/4
7	2	P0093-005	WASHER, Nepprene
8	1	P0100-111	NIPPLE, QD 1/2
9*	1	P0302-544	VALVE, Relief 6000 PSI
10*	2	P0302-402	VALVE, Relief 5000 PSI
11	3	P0309-180	FILTER
12**	1	P0303-343	PUMP, Triple
13	6	P0201-180	CLAMP, T-Bolt
14	12	P0001-08-006	BOLT, Hex 1/2 UNC x 1.5
15	3	A40799P	PIPE, Return
16	3	P0412-008A	ELBOW, 90 Degree
17	3	P0302-434	VALVE, ORB Ball 2
18	1	P0412-007A	ELBOW, 90 Degree
19	1	P0302-418	VALVE, ORB Ball 1-1/4
20	1	A42511P	PIPE, Return
21	3	A44955P	PIPE, Return 1
22	3	A40718P	PIPE, Return
23	3	P0301-146	GAUGE, 6000 PSI
24	2	P0303-280	ELBOW, 90 Degree
25	2	P0309-172	ELEMENT, Filter
26	2	P0309-144B	FILTER HEAD
27	8	P0001-07-005	BOLT, Hex 7/16 UNC x 1.25
28	1	P0302-488	VALVE, Check
29	2	P0301-105	GAUGE, Filter Indicator
30	2	P0093-004	FITTING, Hose
31**	1	P0303-281	PUMP, Transfer
32	4	P0001-04-005	BOLT, Hex 1/4 UNC x 1.25
33	10	P0040-004	WASHER, Hardened Flat 1/4
34	10	P0003-04-000	NUT, Hex 1/4
35	1	A44979P	MOUNT, Transfer Pump
36	1	P0302-185	VALVE, Ball 1/2
37	1	P0301-138	GAUGE, Sight
38	4	P0001-07-010	BOLT, Hex 7/16 UNC x 2.5
39	1	P0303-278	ELBOW
40**	1	P0303-381	PUMP, Gear
41	2	P0201-205	T CLAMP
42	1	A46899A	SUPPORT, Pump
43	1	P0309-188	BREATHING, Reservoir
44	9	P0017-10-324	SCREW, Machine 10-32 x .5
45	6	P0001-04-008	BOLT, Hex 1/4 UNC x 2
46	4	P0003-08-000	NUT, Hex 1/2
47	4	P0040-008	WASHER, Hardened Flat 1/2
48	4	P0025-002A	STUD
49^	60 Gal	P0126-001	OIL, Hydraulic
50	1	P0417-003	CAP, Pipe 1/2
51	1	P0100-110A	PLUG, Plastic
52	1	P0100-109A	CAP, Plastic
53	1	P0100-112A	PLUG, Aluminum Protective
54	1	P0100-100A	CAP, Aluminum Protective
55	1	P0100-099A	PLUG, Aluminum
56	1	P0100-103A	PLUG, Aluminum Protective
57	1	P0100-111A	PLUG, Aluminum Protective
58***	-	A44989A	KIT, Hose P150Q
59***	-	A44990A	KIT, Fitting P150Q

* Refer to section 7, Valves for parts information. ** Refer to section 9, Pumps for parts information.

*** Refer to this section for parts information. ^ Not Shown Gal - Gallons

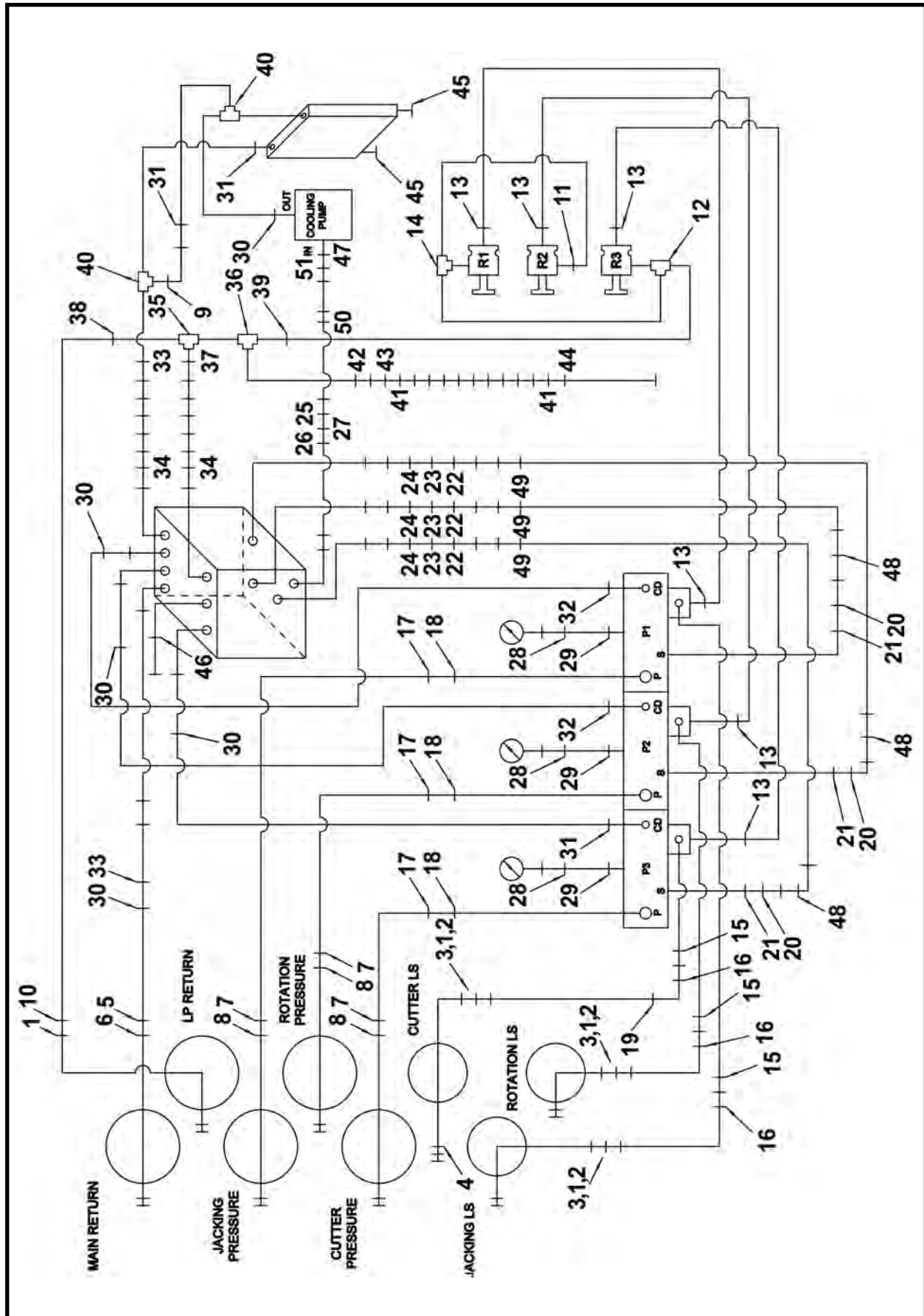
P150Q HOSE KIT, A44989A
P150Q POWER PACK (SN FA40035F-8 & AFTER)



P150Q HOSE KIT, A44989A
P150Q POWER PACK (SN FA40035F-8 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
0	-	A44989A	KIT, Hose P150Q
1	1	A10370A-037	HOSE ASSEMBLY, 1 x 37
2	1	A10343A-048	HOSE ASSEMBLY, 1 x 48
3	1	A10461A-040	HOSE ASSEMBLY, 1/2 x 40
4	3	A09949A-600	HOSE ASSEMBLY, 3/8 x 600
5	1	A10451A-600	HOSE ASSEMBLY 1 x 600
6	1	A09824A-600-R	HOSE ASSEMBLY, 3/4 x 600
7	1	A10303A-600	HOSE ASSEMBLY, 3/4 x 600
8	1	A10462A-600	HOSE ASSEMBLY, 1/2 x 600
9	1	A10327A-022	HOSE ASSEMBLY, 1/4 x 22
10	1	A10326A-027	HOSE ASSEMBLY, 1/4 x 27
11	1	A10326A-015	HOSE ASSEMBLY, 1/4 x 15
12	1	A10326A-022	HOSE ASSEMBLY, 1/4 x 22
13	1	A10314A-018	HOSE ASSEMBLY, 1/4 x 18
14	1	A10371A-132	HOSE ASSEMBLY, 1/4 x 132
15	1	A10371A-046	HOSE ASSEMBLY, 1/4 x 46
16	1	A10371A-028	HOSE ASSEMBLY, 1/4 x 28
17	1	A10428A-084	HOSE ASSEMBLY, 3/4 x 84
18	1	A09934A-028	HOSE ASSEMBLY, 3/4 x 28
19	1	A10304A-038	HOSE ASSEMBLY, 3/4 x 38
20	1	A10325A-023	HOSE ASSEMBLY, 1/4 x 23
21	1	A10325A-022	HOSE ASSEMBLY, 1/4 x 22
22	1	A10325A-027	HOSE ASSEMBLY, 1/4 x 27
23	3	A10343A-044	HOSE ASSEMBLY, 1 x 44
24	1	A10471A-047	HOSE ASSEMBLY, 3/8 x 47
25	1	A10374A-047	HOSE ASSEMBLY, 1 x 47
26	1	A10359A-026	HOSE ASSEMBLY, 1/2 x 26
27	1	A10357A-048	HOSE ASSEMBLY, 1/2 x 48
28	1	A10374A-051	HOSE ASSEMBLY, 1 x 51
29	2	P0201-159-020	HOSE, Suction 2 x 20
30	1	P0201-159-036	HOSE, Suction 2 x 36
31	1	P0201-227-053	HOSE, 1-1/4 x 53
32	1	A09824A-600-B	HOSE ASSEMBLY, 3/4 x 600

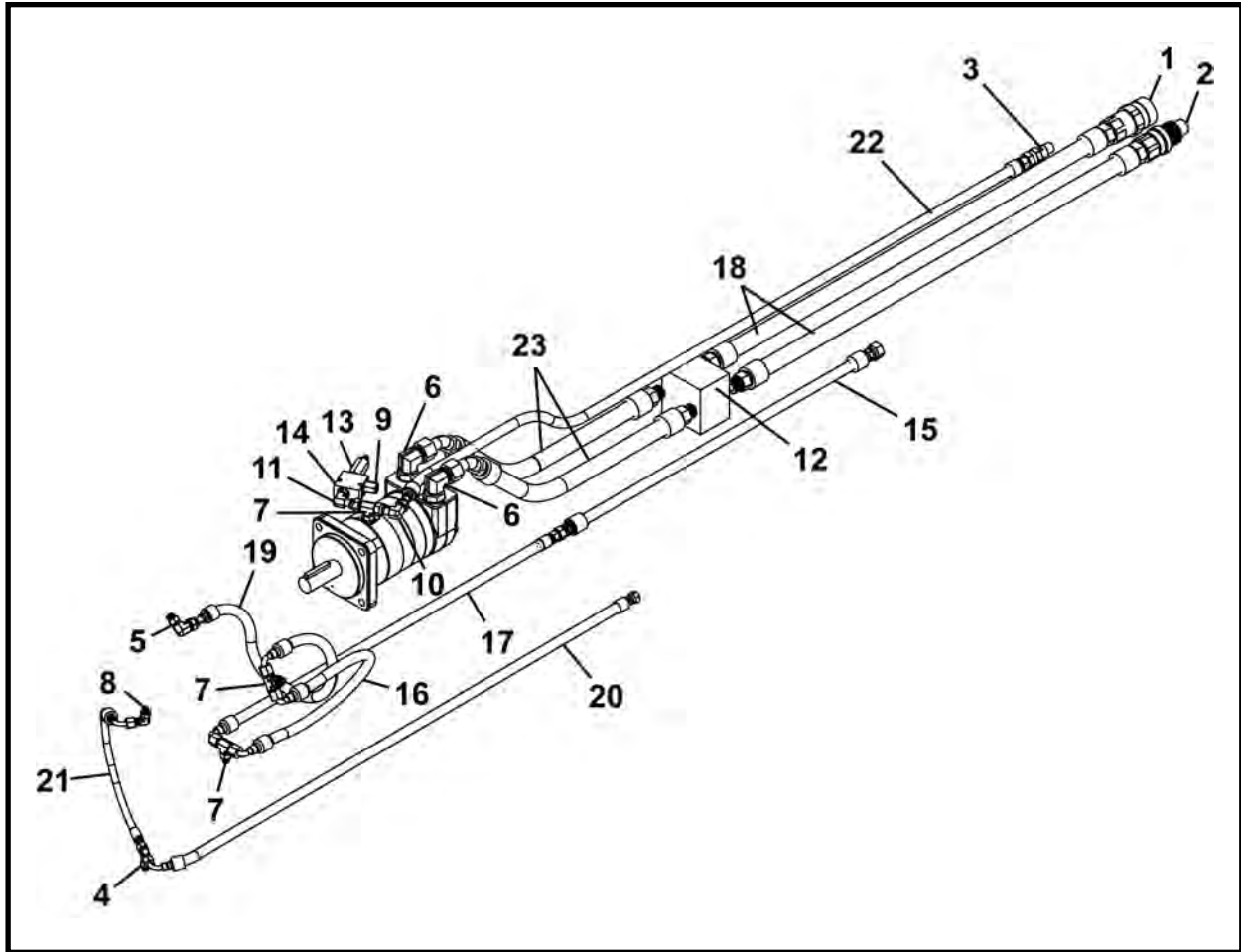
P150Q FITTING KIT, A44990A
P150Q POWER PACK (SN FA40035F-8 & AFTER)



P150Q FITTING KIT, A44990A
P150Q POWER PACK (SN FA40035F-8 & AFTER)

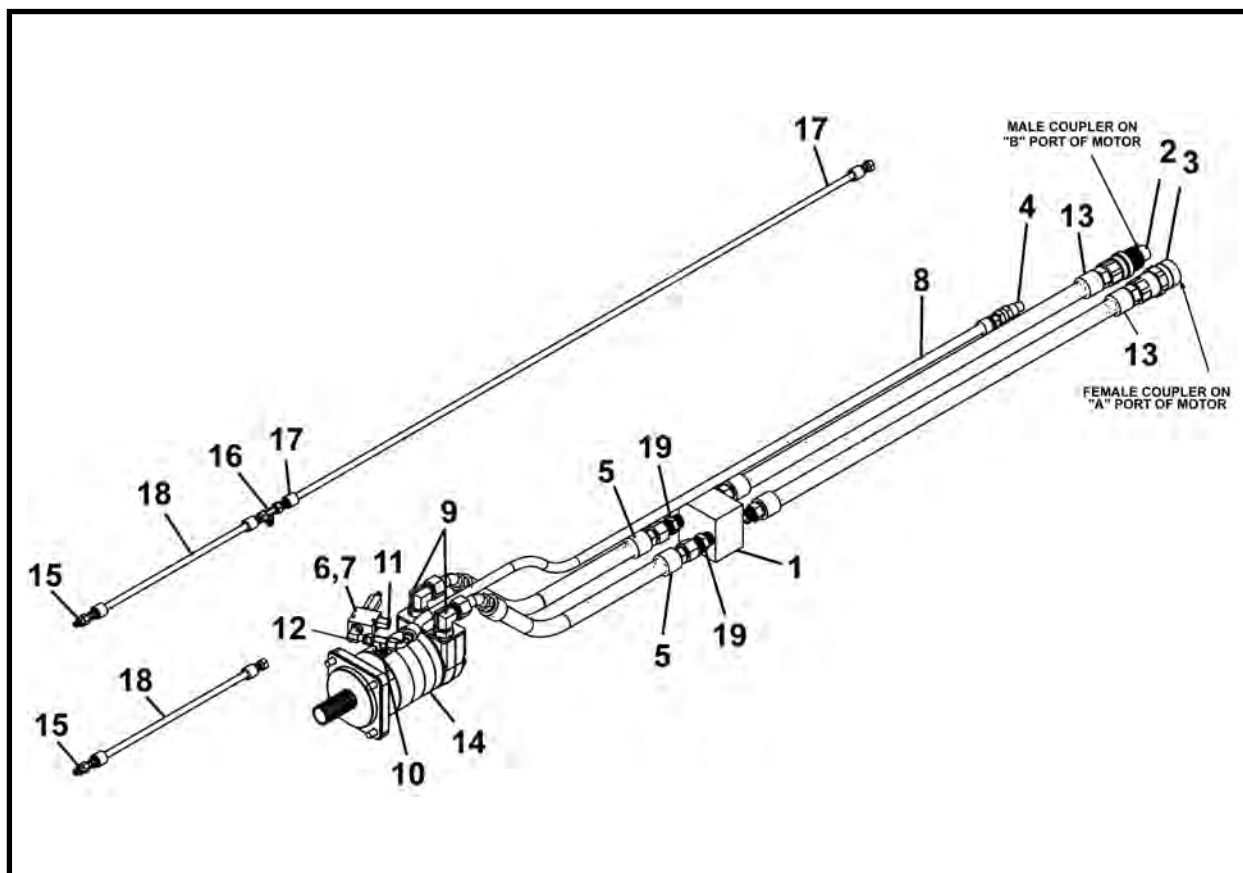
ITEM	QTY	PART NO.	DESCRIPTION
0	-	A44990A	KIT, Fitting P150Q
1	4	P0300-435	SWIVEL JOINT
2	3	P0300-439	FITTING, 08MJ-06MJ
3	3	P0300-454	FITTING, 08FJ-06MJ
4	1	P0300-565	FITTING, 12MORB-08FORB
5	1	P0300-437	SWIVEL JOINT
6	1	P0300-441	FITTING, 16MJ-16MJ
7	3	P0300-436	SWIVEL JOINT
8	3	P0300-440	FITTING, 12MJ-12MJ
9	1	P0300-615	FITTING, 16FFORX-16MB90
10	1	P0300-438	FITTING, 08MJ-08MJ
11	1	P0300-311	FITTING, 04MFFOR-06MB90
12	1	P0300-386	FITTING, 06MFOR-06MB-06MFOR
13	6	P0300-310	FITTING, 04MFOR-06MB
14	1	P0300-376	FITTING, 06MFOR-06MFOR-06MB
15	3	P0300-528	FITTING, 06MB-04FP90
16	3	P0300-268	FITTING, 04MJ-04FP
17	3	P0300-421	FITTING, 20FLH6K-16MJ90
18	3	P0300-420	FITTING, 20SF XO
19	1	P0300-271	FITTING, 04MJ-04FJX90
20	3	P0300-518	FLANGE
21	3	P0300-460	FITTING, 32FLOR
22	3	P0300-444	FITTING, 32OR
23	3	P0300-443	FITTING, 32CFHS
24	3	P0300-442	FITTING, 32FL-32MB
25	1	P0300-447	FITTING, 20OR
26	1	P0300-446	FITTING, 24SFO
27	1	P0300-445	FITTING, 20MJ-24FL
28	3	P0300-594	FITTING, 4FB-4MFFOR
29	3	P0300-362	FITTING, 04MFOR-04MB
30	5	P0300-371	FITTING, 16MFOR-16MB90
31	3	P0300-319	FITTING, 16MFOR-16MB
32	2	P0300-434	FITTING, 16MFOR-16MB45
33	2	P0300-380	FITTING, 20MB-16FB
34	2	P0300-458	FITTING, 20FLOR
35	1	P0300-513	FITTING, 10MFOR-10MFOR-10MB
36	1	P0300-422	FITTING, 10MFOR-10FFORX-10MFOR
37	1	P0300-451	FITTING, 20MB-10FB
38	1	P0300-389	FITTING, 10MFOR-10FFORX90
39	1	P0300-527	FITTING, 10FFORX-08MFOR
40	2	P0300-419	FITTING, 16MFOR-16MB-16MFOR
41	2	P0300-012	FITTING, 12MP-08FPS
42	1	P0300-382	FITTING, 08MFOR-08MP
43	1	P0300-048	FITTING, 08MP-08MP
44	1	P0300-032	FITTING, 08MP-08FP90
45	2	P0300-028	FITTING, 16MP-PLUG
46	1	P0300-208	FITTING, 10MB-12FPX
47	1	P0300-620	FITTING, 20MFOR-20MB90
48	3	P0220-210	FITTING, 32 INSERT-90-20FL
49	3	P0220-224	FITTING, 32 INSERT-32MB
50	1	P0220-223	FITTING, 20 Insert-90-20MB
51	1	P0220-240	FITTING, 20GS-20FFORX90M

PRH HYDRAULIC ASSEMBLY, A45306A
POWERED REAMING HEAD (SN FA45200F-5 & BEFORE)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45306A	PRH HYDRAULIC ASSEMBLY
1	1	P0100-067	COUPLER, Female
2	1	P0100-068	COUPLER, Male
3	1	P0100-089	COUPLER, Male End Quick
4	1	P0300-313	FITTING, 04MFOR-04MFOR-04FFORX
5	1	P0300-355	FITTING, 06MFOR-06MB90
6	2	P0300-372	FITTING, 12MFOR-12MB90
7	3	P0300-376	FITTING, 06MFOR-06MFOR-06MB
8	1	P0300-427	FITTING, 04MFOR-04MB90
9	1	P0300-572	FITTING, 06MB-04FP
10	1	P0300-603	FITTING, 06MFOR-06FFORX90
11	1	P0300-618	FITTING, 06FFORX-06MB90
12	1	P0302-496	RELIEF, Dual Crossover 5,000 psi
13	1	P0302-513	CARTRIDGE
14	1	P0302-514	BODY
15	1	A09919A-034	HOSE ASSEMBLY 1/2 x 34
16	1	A09939A-024	HOSE ASSEMBLY 3/8 x 24
17	1	A09940A-036	HOSE ASSEMBLY 3/8 x 36
18	2	A09941A-040	HOSE ASSEMBLY 3/4" x 40
19	1	A10079A-024	HOSE ASSEMBLY 3/8 x 24
20	1	A10318A-048	HOSE ASSEMBLY 1/4 x 48
21	1	A10325A-018	HOSE ASSEMBLY 1/4 x 18
22	1	A10418A-064	HOSE ASSEMBLY 3/8 x 64
23	2	A10478A-023	HOSE ASSEMBLY 3/4 x 23

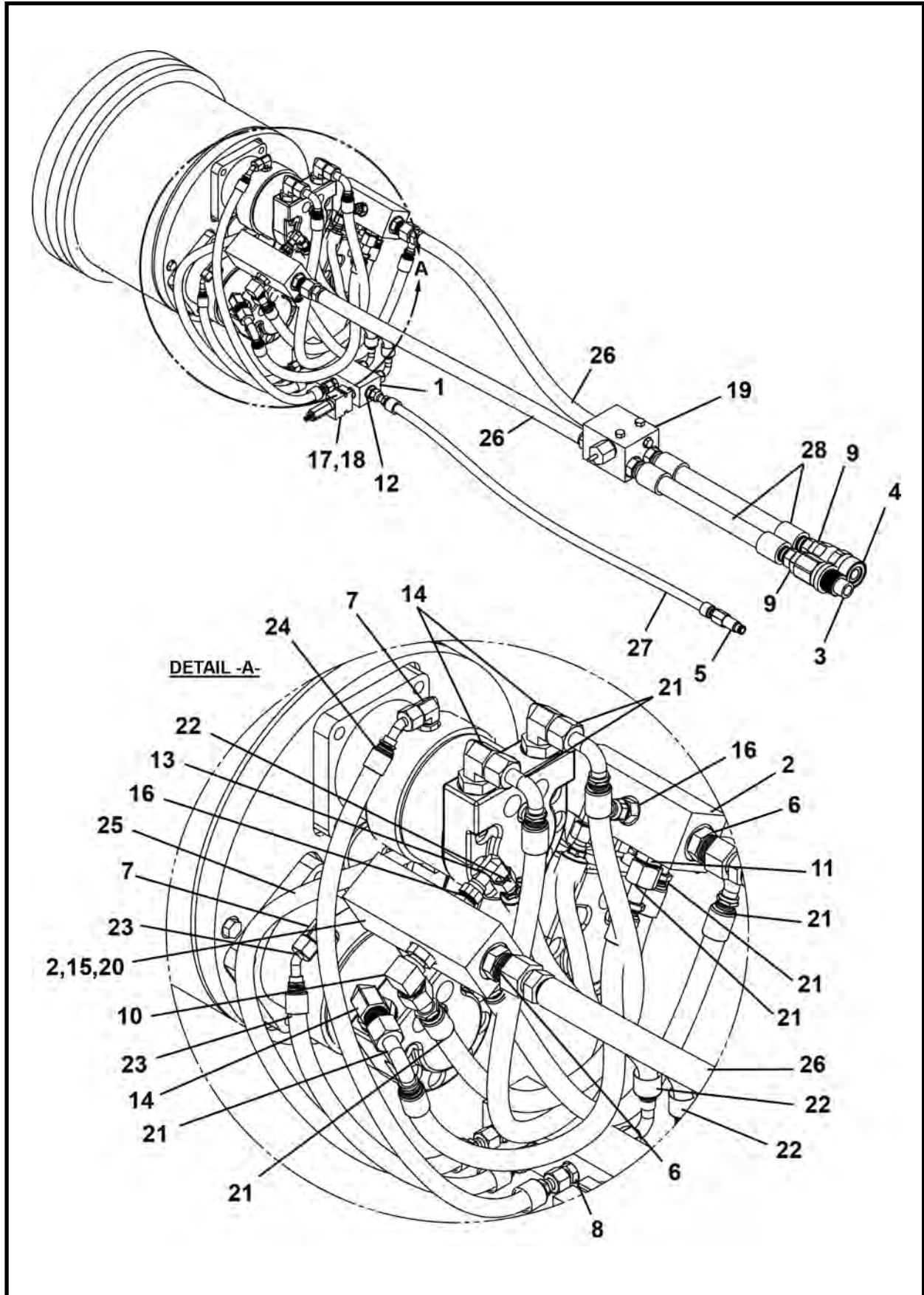
PRH HYDRAULIC ASSEMBLY - Small Diameter Drive, A46806A
POWERED REAMING HEAD Series II (SN FA45200F-6 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A46806A	HYDRAULIC ASSEMBLY, Small Diameter DrivePRH Series II
1	1	P0302-496	RELIEF, Dual Crossover 5,000 psi
2	1	P0100-068	COUPLER, Male
3	1	P0100-067	COUPLER, Female
4	1	P0100-089	COUPLER, Male End Quick
5	2	A10467A-023	HOSE ASSEMBLY, 3/4 x 23
6	1	P0302-513	CARTRIDGE
7	1	P0302-514	BODY
8	1	A10049A-064	HOSE ASSEMBLY, 3/8 x 64
9	2	P0300-372	FITTING, 12MFOR-12MB90
10	1	P0300-376	FITTING, 06MFOR-06MFOR-06MB
11	1	P0300-572	FITTING, 06MB-04FP
12	1	P0300-618	FITTING, 06FFORX-06MB90
13	2	A09941A-040	HOSE ASSEMBLY, 3/4 x 40
14*	1	P0304-172	MOTOR, Hydraulic
15	2	P0300-362	FITTING, 04MFOR-04MB
16	1	P0300-138	FITTING, 06MJ-06MJ-06MJ
17	1	A10060A-062	HOSE ASSEMBLY, 1/4 x 62
18	2	A10315A-017	HOSE ASSEMBLY, 1/4 x 17
19	2	P0300-329	FITTING, 12MFOR-12MB

* Refer to section 8, Motors for parts information.

PRH HYDRAULIC DRIVE ASSEMBLY, A48034A
POWERED REAMING HEAD Series II (20,000 ft-lbs Drive)

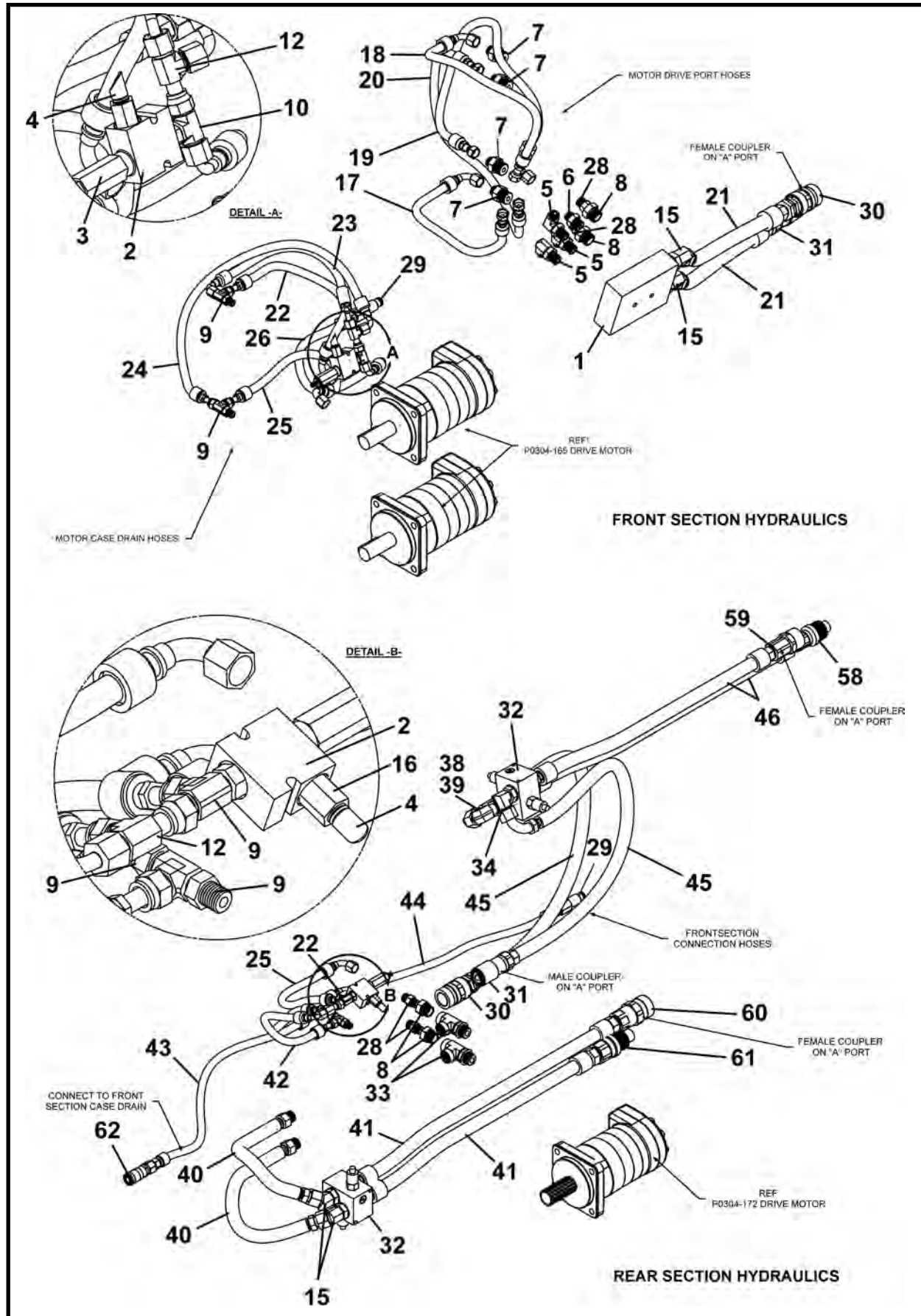


PRH HYDRAULIC DRIVE ASSEMBLY, A48034A
POWERED REAMING HEAD Series II (20,000 ft-lbs Drive)

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A48034A	HYDRAULIC DRIVE ASSEMBLY, 20,000 Ft-lb Drive
1	1	A47316P	MANIFOLD, Case Drain
2	2	A48040P	MANIFOLD, PRH
3	1	P0100-073	COUPLER, Male
4	1	P0100-074	COUPLER, Female
5	1	P0100-089	COUPLER, Quick - Male
6	2	P0300-329	FITTING, 12MFOR-12MB
7	3	P0300-355	FITTING, 06MFOR-06MB90
8	6	P0300-356	FITTING, 06MFOR-06MB
9	2	P0300-380	FITTING, 20MB-16FB
10	2	P0300-383	FITTING, 10MFOR-10MB90
11	2	P0300-385	FITTING, 10MFFOR-10MB
12	1	P0300-430	FITTING, 06MFOR-08MB
13	2	P0300-603	FITTING, 06MFOR-06FFORX90
14	4	P0300-633	FITTING, 10MFFOR-12MB90
15	2	P0300-817	FITTING, 12MORB-12SF62
16	2	P0302-498	VALVE, Check
17	1	P0302-513	CARTRIDGE
18	1	P0302-514	BODY, 3/8 Port
19	1	P0302-517	RELIEF, Crossover 5000 PSI
20	2	P0303-376	KIT, Split Flange
21	4	A09933A-027	HOSE ASSEMBLY, 1/2 x 27
22	2	A10079A-026	HOSE ASSEMBLY, 3/8 x 26
23	1	A10082A-015	HOSE ASSEMBLY, 3/8 x 15
24	1	A10082A-032	HOSE ASSEMBLY, 3/8 x 32
25	1	A10082A-033	HOSE ASSEMBLY, 3/8 x 33
26	2	A10452A-036	HOSE ASSEMBLY, 3/4 x 36
27	1	A10424A-050	HOSE ASSEMBLY, 1/2 x 50
28	1	A10494A-050	HOSE ASSEMBLY, 1 x 50

PCH 20 HYDRAULIC ASSEMBLY, A43162A

PCH 20



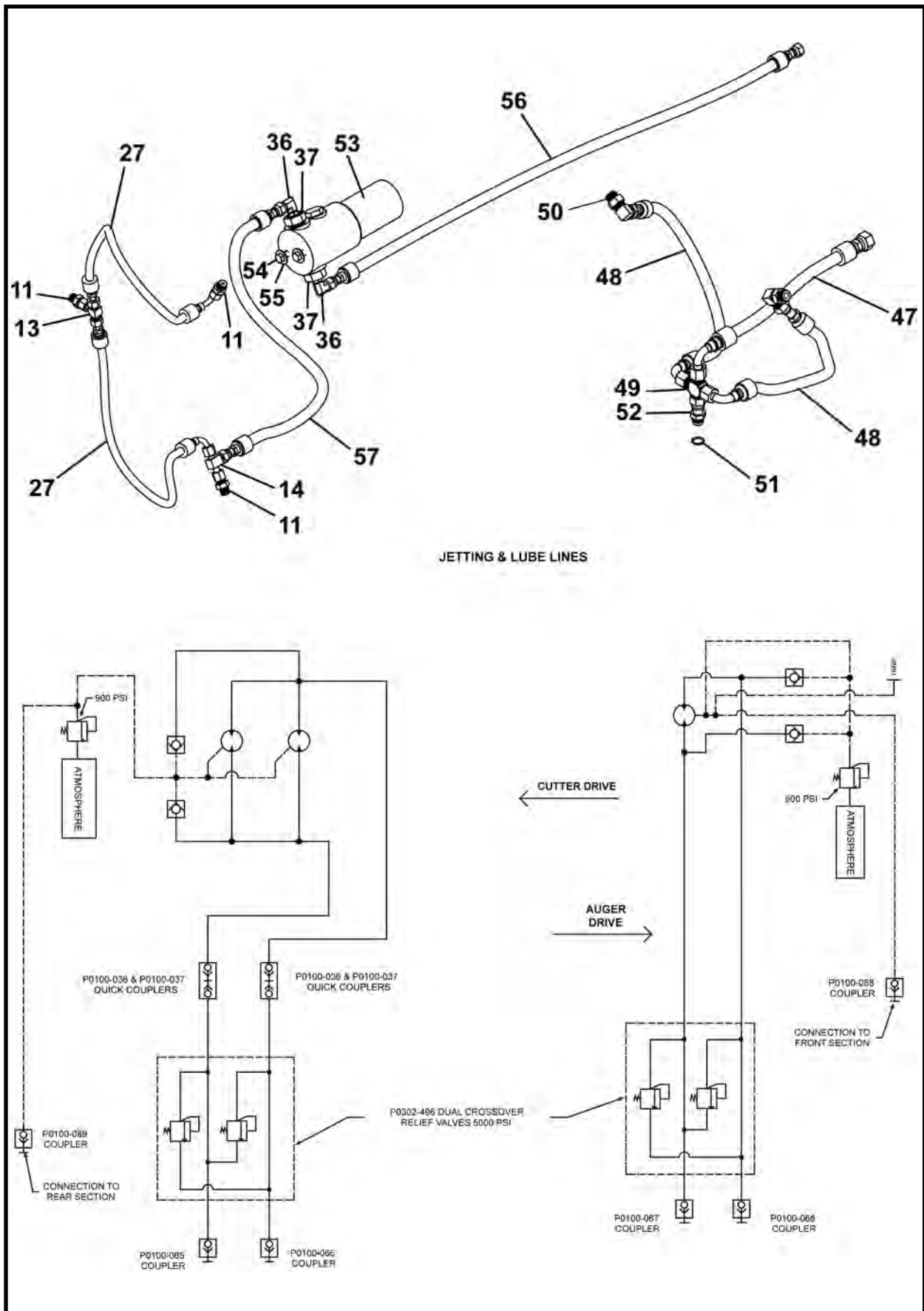
PCH 20 HYDRAULIC ASSEMBLY, A43162A**PCH 20**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43162A	HYDRAULIC ASSEMBLY, PCH 20
1	1	A43181P	MANIFOLD, Drive
2	2	P0302-514	BODY, Port 3/8
3	2	P0302-513	CARTRIDGE
4	2	P0403-003	NIPPLE
5	3	P0300-302	FITTING, 08MFOR-10MB90
6	1	P0300-300	FITTING, 08MFOR-10MB
7	4	P0300-375	FITTING, 08MFOR-12MB
8	4	P0300-565	FITTING, 12MORB-08FORB
9	4	P0300-386	FITTING, 06MFOR-06MB-06MFOR
10	1	P0300-376	FITTING, 06MFOR-06MFOR-06MB
11	3	P0300-310	FITTING, 04MFOR-06MB
12	2	P0300-613	FITTING, 06MFOR-06FFORX-06MFOR
13	1	P0300-313	FITTING, 04MFOR-04MFOR-04FFORX
14	1	P0300-312	FITTING, 04MFOR-04FFORX-04MFOR
15	4	P0300-359	FITTING, 12MFOR-12MB45
16	2	P0300-572	FITTING, 06MB-04FP
17	1	A10474A-018	HOSE ASSEMBLY 3/8 x 18
18	1	A10474A-022	HOSE ASSEMBLY 3/8 x 22
19	1	A10474A-037	HOSE ASSEMBLY 3/8 x 37
20	1	A10308A-031	HOSE ASSEMBLY 3/8 x 31
21	2	A10452A-016	HOSE ASSEMBLY 3/4 x 16
22	2	A10312A-022	HOSE ASSEMBLY 3/8 x 22
23	1	A09948A-022	HOSE ASSEMBLY 3/8 x 22
24	1	A10079A-035	HOSE ASSEMBLY 3/8 x 35
25	2	A10312A-020	HOSE ASSEMBLY 3/8 x 20
26	1	A10049A-030	HOSE ASSEMBLY 3/8 x 30
27	2	A10325A-023	HOSE ASSEMBLY 1/4 x 23
28	2	P0302-498	VALVE, Check
29	2	P0100-089	COUPLER, Male
30	3	P0100-036	COUPLER, Female
31	3	P0100-037	COUPLER, Male
32	2	P0302-496	RELIEF, Dual Crossover
33	2	P0300-536	FITTING, 12MB-12FB-12FB
34	1	P0300-372	FITTING, 12MFOR-12MB90
35	1	P0300-602	FITTING, 06MFOR-06MFOR-06FFORX
36	2	P0300-042	FITTING, 06MJ-06MB90
37	2	P0300-677	FITTING, 12MB-6FB
38	1	P0300-329	FITTING, 12MFOR-12MB
39	1	P0300-424	FITTING, 12MFOR-12FFORX90
40	2	A10452A-023	HOSE ASSEMBLY 3/4 x 23
41	2	A10486A-050	HOSE ASSEMBLY 3/4 x 50
42	1	A10079A-018	HOSE ASSEMBLY 3/8 x 18
43	1	A10418A-030	HOSE ASSEMBLY 3/8 x 30
44	1	A10418A-039	HOSE ASSEMBLY 3/8 x 39
45	2	A10453A-057	HOSE ASSEMBLY 3/4 x 57
46	2	A10439A-036	HOSE ASSEMBLY 3/4 x 36
47	1	A09947A-016	HOSE ASSEMBLY 1/2 x 16
48	2	A10474A-021	HOSE ASSEMBLY 3/8 x 21
49	1	P0300-629	FITTING, 08MFOR-08MFOR-08MFOR-08MFOR
50	2	P0300-316	FITTING, 08MFOR-08MB90
51	1	P0300-332	ORING, 08OR
52	1	P0300-628	FITTING, 08FFORX-08MJ

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PCH 20 HYDRAULIC ASSEMBLY, A43162A

PCH 20



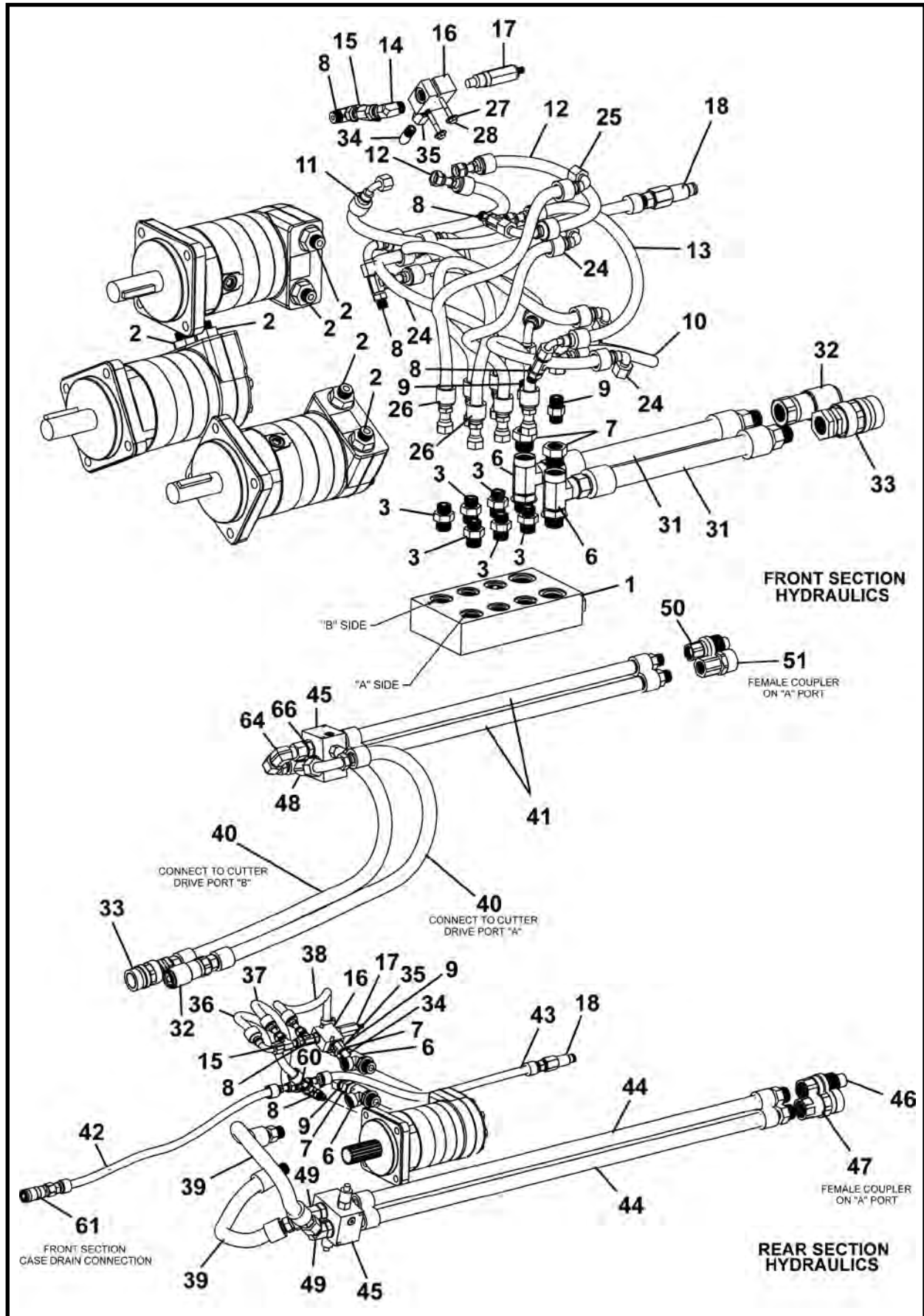
PCH 20 HYDRAULIC ASSEMBLY, A43162A

PCH 20

ITEM	QTY	PART NO.	DESCRIPTION
53	1	P0309-187	FILTER ASSEMBLY (Includes item 53a)
53a	1	P0309-187A	ELEMENT
54	2	P0001-06-003	BOLT, 3/8 UNC x 3/4
55	2	P0040-006	WASHER, Hardened Flat 3/8
56	1	A10414A-039	HOSE ASSEMBLY 3/8 x 39
57	1	A10311A-020	HOSE ASSEMBLY Hose 3/8 x 20
58	2	P0100-066	COUPLER, Male
59	2	P0100-065	COUPLER, Female
60	1	P0100-067	COUPLER, Female
61	1	P0100-068	COUPLER, Male
62	1	P0100-088	COUPLER, Female
63	2	A10439A-096	HOSE ASSEMBLY 3/4 x 96
64	2	A10317A-012	HOSE ASSEMBLY 1/4 x 12
65	2	P0300-250	FITTING, 04MJ-04MB
66	2	P0300-258	FITTING, 04MJ-PLUG

PCH 22.5 HYDRAULIC ASSEMBLY, A42902A

PCH 22.5



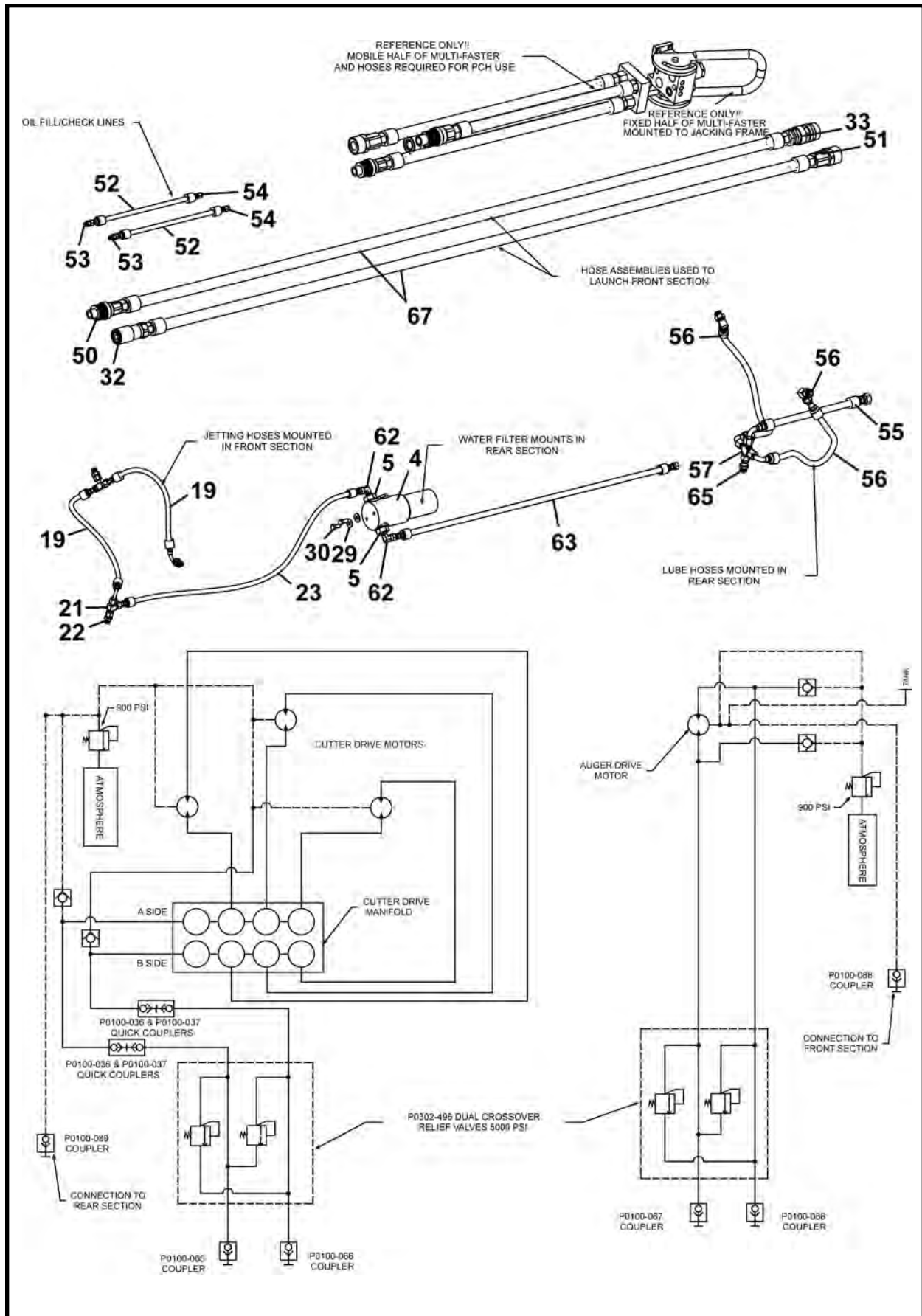
PCH 22.5 HYDRAULIC ASSEMBLY, A42902A**PCH 22.5**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42902A	HYDRAULIC ASSEMBLY, PCH 22.5
1	1	A42895A	MANIFOLD, Main Drive
2	6	P0300-375	FITTING, 08MFOR-12MB
3	6	P0300-300	FITTING, 08MFOR-10MB
4	1	P0309-187	ASSEMBLY, Water Filter (Includes item 4a)
4a	1	P0309-187A	ELEMENT
5	2	P0300-677	FITTING, 12MB-6FB
6	4	P0300-536	FITTING, 12MB-12FB-12FB
7	4	P0300-565	FITTING, 12MORB-08FORB
8	6	P0300-386	FITTING, 06MFOR-06MB-06MFOR
9	2	P0302-498	VALVE, Check
10	2	A10079A-015	HOSE ASSEMBLY 3/8 x 15
11	1	A10049A-044	HOSE ASSEMBLY 3/8 x 44
12	2	A10079A-021	HOSE ASSEMBLY 3/8 x 21
13	1	A10079A-016	HOSE ASSEMBLY 3/8 x 16
14	1	P0300-603	FITTING, 06MFOR-06FFORX90
15	2	P0300-613	FITTING, 06MFOR-06FFORX-06MFOR
16	2	P0302-514	BODY, Port 3/8
17	2	P0302-513	CARTRIDGE
18	2	P0100-089	COUPLER, Male End Quick
19	2	A10325A-020	HOSE ASSEMBLY, 1/4 x 20
20	1	P0300-313	FITTING, 04MFOR-04MFOR-04FFORX
21	1	P0300-312	FITTING, 04MFOR-04FFORX-04MFOR
22	3	P0300-310	FITTING, 04MFOR-06MB
23	1	A10315A-036	HOSE ASSEMBLY 1/4 x 36
24	3	A10474A-018	HOSE ASSEMBLY 3/8 x 18
25	1	A10474A-026	HOSE ASSEMBLY 3/8 x 26
26	2	A10474A-028	HOSE ASSEMBLY 3/8 x 28
27	4	P0040-004	WASHER, Hardened Flat 1/4
28	4	P0001-04-006	BOLT, 1/4 UNC x .5
29	2	P0040-006	WASHER, Hardened Flat 3/8
30	2	P0001-06-003	BOLT, 3/8 UNC x .75
31	2	A10439A-016	HOSE ASSEMBLY 3/4 x 16
32	3	P0100-037	COUPLER, Male Quick 3/4
33	3	P0100-036	COUPLER, Female Quick 3/4
34	2	P0403-003	NIPPLE
35	2	P0300-572	FITTING, 06MB-04FP
36	1	A10079A-019	HOSE ASSEMBLY 3/8 x 19
37	1	A10312A-024	HOSE ASSEMBLY 3/8 x 24
38	1	A10312A-021	HOSE ASSEMBLY 3/8 x 21
39	2	A10452A-023	HOSE ASSEMBLY 3/4 x 23
40	2	A10453A-060	HOSE ASSEMBLY 3/4 x 60
41	2	A10439A-035	HOSE ASSEMBLY 3/4 x 35
42	1	A10418A-031	HOSE ASSEMBLY 3/8 x 31
43	1	A10418A-039	HOSE ASSEMBLY 3/8 x 39
44	2	A10048A-048	HOSE ASSEMBLY 3/4 x 048
45	2	P0302-496	RELIEF, Dual Crossover
46	1	P0100-068	COUPLER, Male
47	1	P0100-067	COUPLER, Female
48	1	P0300-372	FITTING, 12MFOR-12MB90
49	2	P0300-359	FITTING, 12MFOR-12MB45
50	2	P0100-066	COUPLER, Male
51	2	P0100-065	COUPLER, Female
52	2	A10317A-012	HOSE ASSEMBLY 1/4 x 12

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PCH 22.5 HYDRAULIC ASSEMBLY, A42902A

PCH 22.5

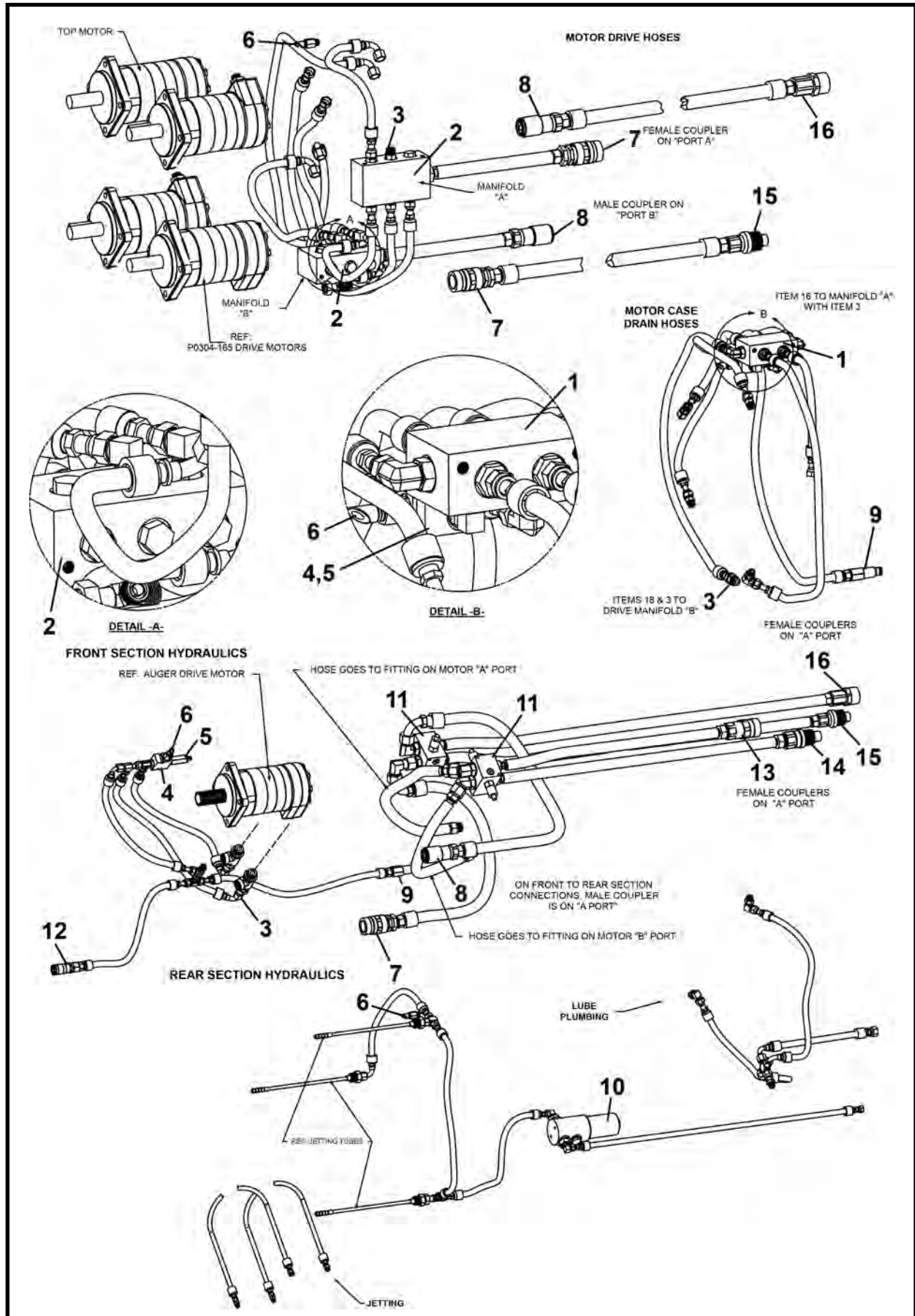


PCH 22.5 HYDRAULIC ASSEMBLY, A42902A**PCH 22.5**

ITEM	QTY	PART NO.	DESCRIPTION
53	2	P0300-250	FITTING, 04MJ-04MB
54	2	P0300-258	FITTING, 04MJ-PLUG
55	1	A09947A-016	HOSE ASSEMBLY 1/2 x 16
56	2	A10474A-029	HOSE ASSEMBLY 3/8 x 29
57	1	P0300-629	FITTING, 08MFOR-08MFOR-08MFOR-08MFOR
58	2	P0300-316	FITTING, 08MFOR-08MB90
59	1	P0300-332	ORING, 08OR
60	1	P0300-602	FITTING, 06MFOR-06MFOR-06FFORX
61	1	P0100-088	COUPLER, Female Quick
62	2	P0300-042	FITTING, 06MJ-06MB90
63	1	A10414A-039	HOSE ASSEMBLY 3/8 x 39
64	1	P0300-424	FITTING, 12MFOR-12FFORX90
65	1	P0300-628	FITTING, 08FFORX-08MJ
66	1	P0300-329	FITTING, 12MFOR-12MB
67	2	A10439A-096	HOSE ASSEMBLY 3/4 x 96

PCH 28.5 / PCH 30.5 HYDRAULIC ASSEMBLY, A43654A

PCH 28.5/30.5



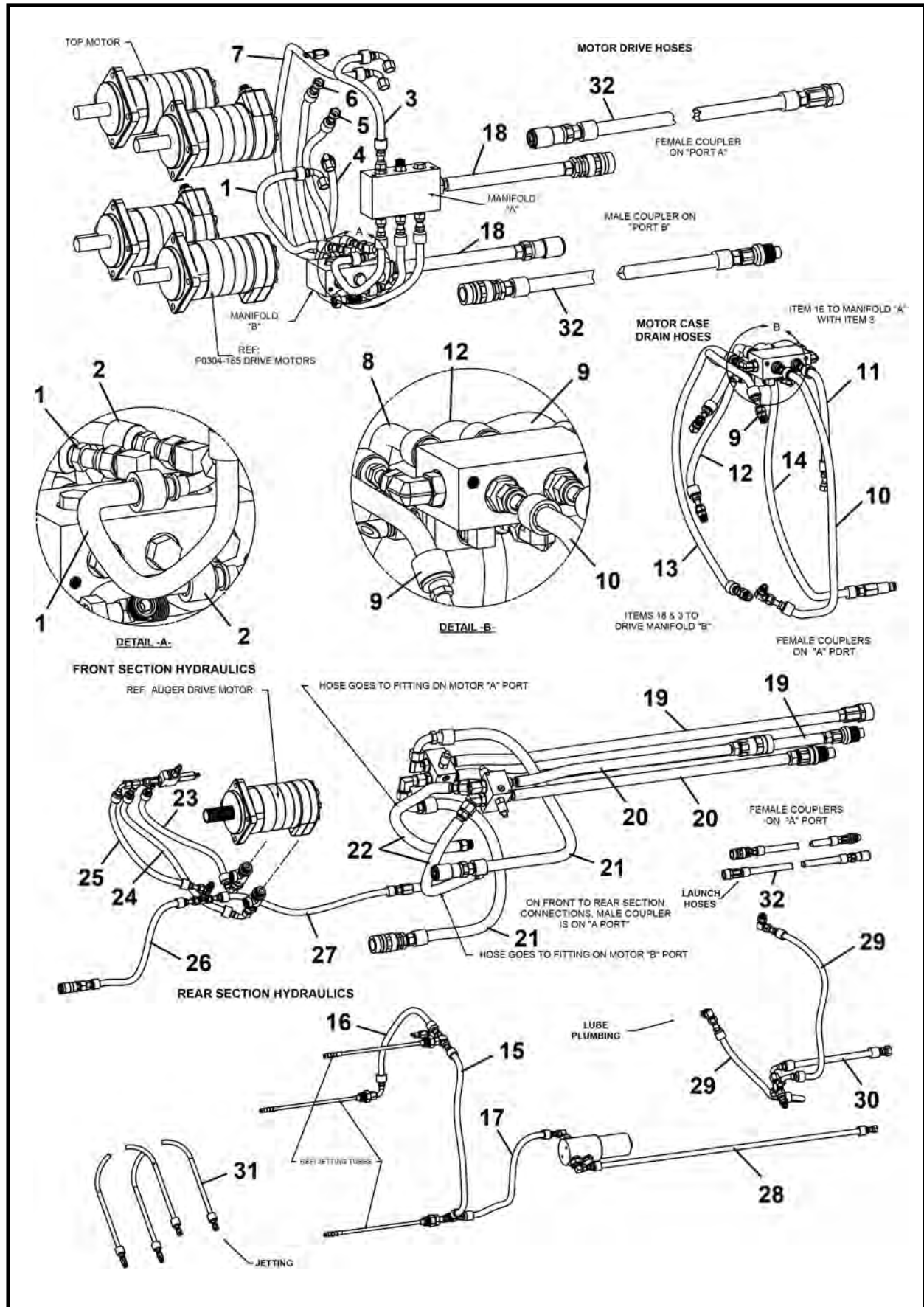
PCH 28.5 / PCH 30.5 HYDRAULIC ASSEMBLY, A43654A**PCH 28.5/30.5**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43654A	HYDRAULIC ASSEMBLY, PCH 28.5
1	1	A43766P	MANIFOLD, Case Drain
2	2	A43689P	MANIFOLD, Main Drive
3	4	P0302-498	VALVE, Check
4	2	P0302-514	BODY, Port 3/8
5	2	P0302-513	CARTRIDGE
6	2	P0403-003	NIPPLE
7	3	P0100-036	COUPLER, Female
8	3	P0100-037	COUPLER, Male
9	2	P0100-089	COUPLER, Male
10	1	P0309-187	FILTER ASSEMBLY (Includes item 10a)
10a	1	P0309-187A	ELEMENT
11	2	P0302-496	RELIEF, Dual Crossover
12	1	P0100-088	COUPLER, Female 1"
13	1	P0100-099	COUPLER, Female 1"
14	1	P0100-100	COUPLER, Male 3/4"
15	2	P0100-104	COUPLER, Male 3/4"
16	2	P0100-103	COUPLER, Female 3/4"
17*	1	A43594A	KIT, Hose
18*	1	A43593A	KIT, Fitting

* Refer to this section for parts information.

PCH 28.5/30.5 HOSE KIT, A43594A

PCH 28.5/30.5

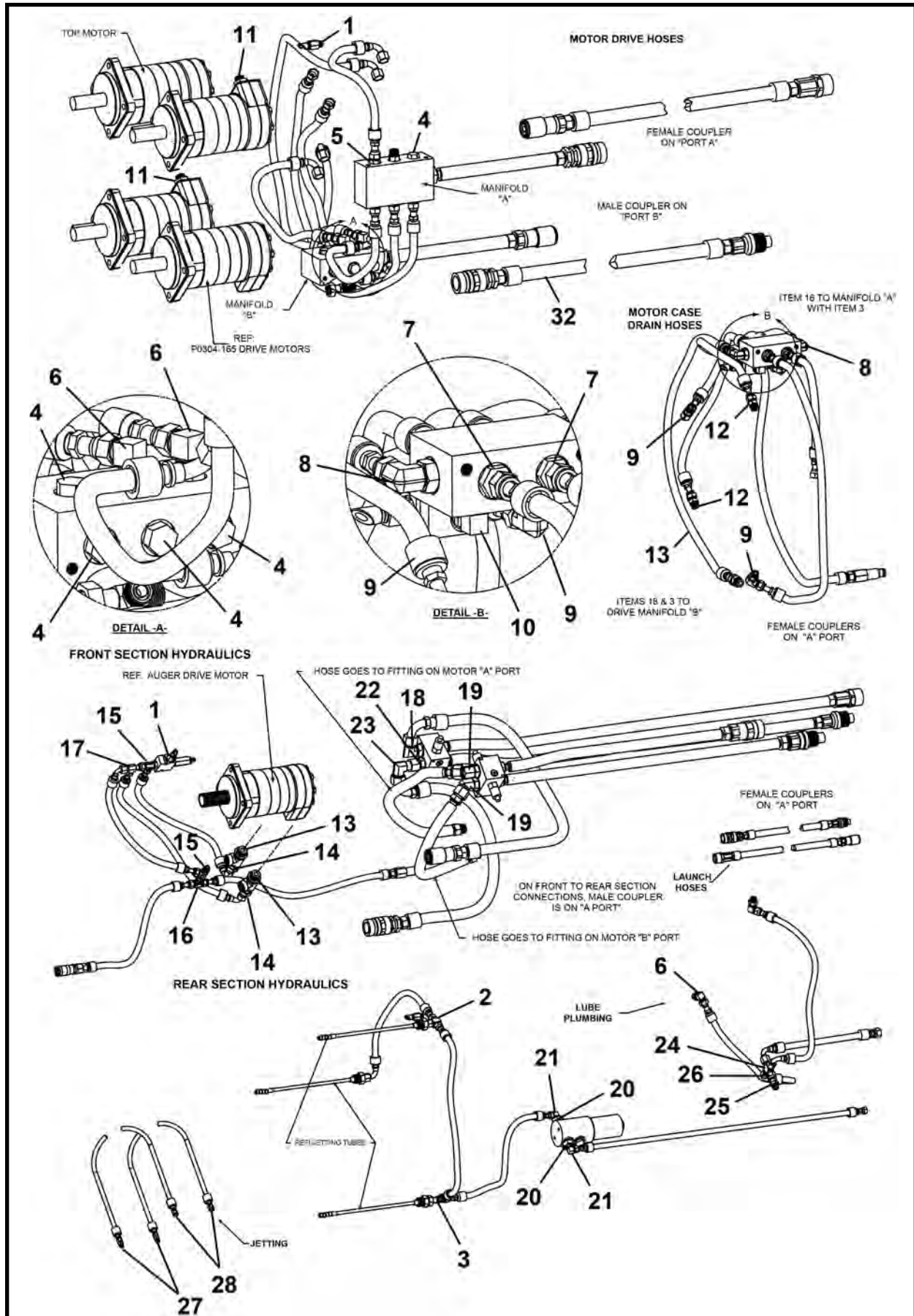


PCH 28.5/30.5 HOSE KIT, A43594A**PCH 28.5/30.5**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43594A	HOSE KIT, PCH 28.5
1	2	A10474A-020	HOSE ASSEMBLY 3/8 x 20
2	1	A10474A-022	HOSE ASSEMBLY 3/8 x 22
3	1	A10474A-018	HOSE ASSEMBLY 3/8 x 18
4	1	A10474A-039	HOSE ASSEMBLY 3/8 x 39
5	1	A10308A-022	HOSE ASSEMBLY 3/8 x 22
6	1	A10308A-045	HOSE ASSEMBLY 3/8 x 45
7	1	A10474A-044	HOSE ASSEMBLY 3/8 x 44
8	1	A10313A-016	HOSE ASSEMBLY 3/8 x 16
9	1	A10313A-025	HOSE ASSEMBLY 3/8 x 25
10	1	A10313A-037	HOSE ASSEMBLY 3/8 x 37
11	1	A10388A-015	HOSE ASSEMBLY 3/8 x 15
12	1	A10313A-023	HOSE ASSEMBLY 3/8 x 23
13	1	A10388A-037	HOSE ASSEMBLY 3/8 x 37
14	1	A10418A-044	HOSE ASSEMBLY 3/8 x 44
15	1	A10308A-028	HOSE ASSEMBLY 3/8 x 28
16	1	A10474A-026	HOSE ASSEMBLY 3/8 x 26
17	1	A10301A-048	HOSE ASSEMBLY 3/8 x 48
18	2	A10486A-016	HOSE ASSEMBLY 3/4 x 16
19	2	A10439A-048	HOSE ASSEMBLY 3/4 x 48
20	2	A10486A-035	HOSE ASSEMBLY 3/4 x 35
21	2	A10453A-060	HOSE ASSEMBLY 3/4 x 60
22	2	A10452A-028	HOSE ASSEMBLY 3/4 x 28
23	1	A10312A-021	HOSE ASSEMBLY 3/8 x 21
24	1	A10312A-027	HOSE ASSEMBLY 3/8 x 27
25	1	A10079A-021	HOSE ASSEMBLY 3/8 x 21
26	1	A10418A-031	HOSE ASSEMBLY 3/8 x 31
27	1	A10418A-039	HOSE ASSEMBLY 3/8 x 39
28	1	A10414A-039	HOSE ASSEMBLY 3/8 x 39
29	2	A10474A-028	HOSE ASSEMBLY 3/8 x 28
30	1	A09947A-016	HOSE ASSEMBLY 1/2 x 16
31	2	A09845A-048	HOSE ASSEMBLY 3/8 x 48
32	2	A10439A-096	HOSE ASSEMBLY 3/4 x 96

PCH 28.5/30.5 FITTING KIT, A43593A

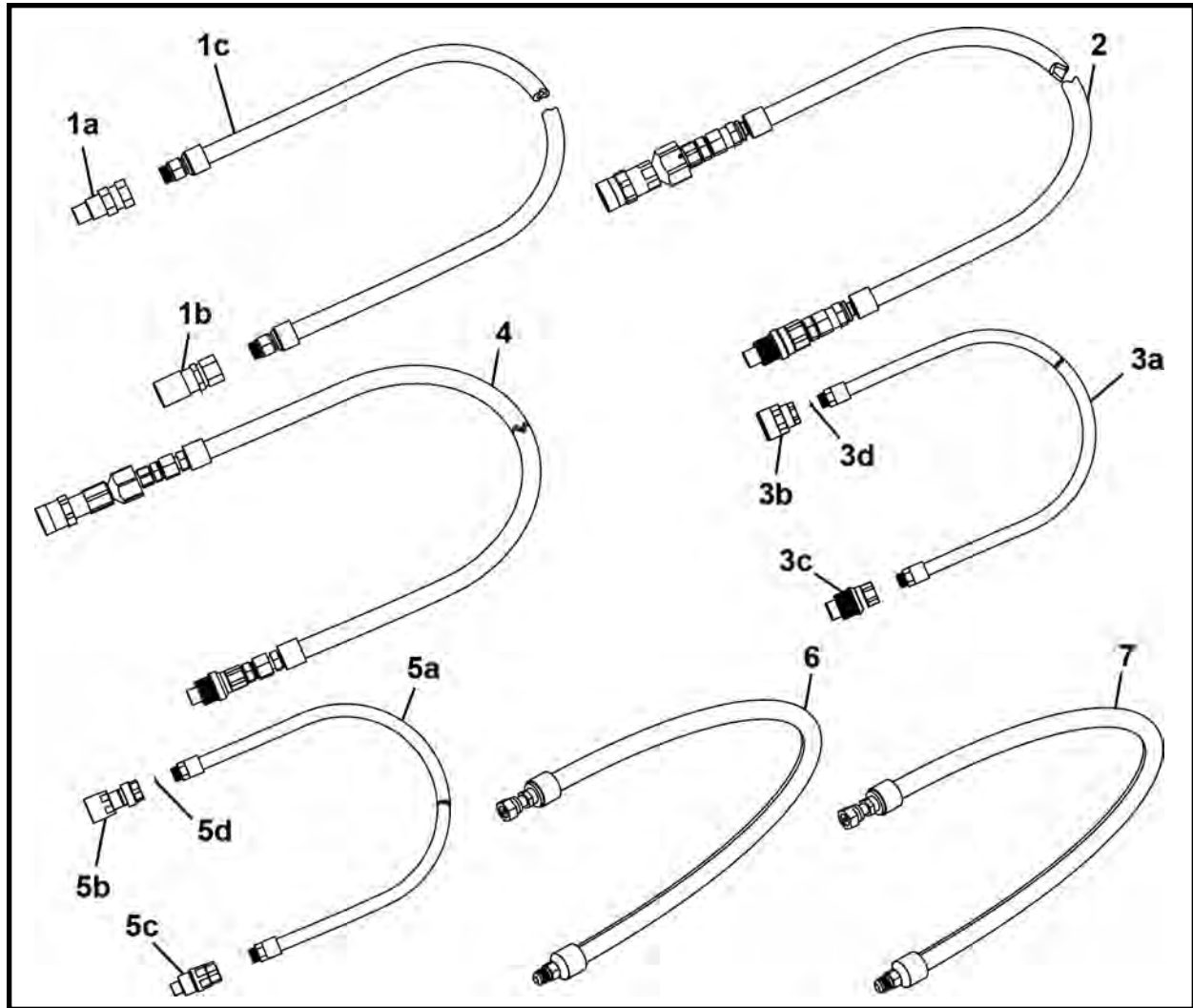
PCH 28.5/30.5



PCH 28.5/30.5 FITTING KIT, A43593A**PCH 28.5/30.5**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43653A	FITTING KIT, PCH 28.5/30.5
1	2	P0300-572	FITTING, 06MB-04FP
2	1	P0300-428	FITTING, 08MFOR-08MFOR-08FFORX
3	1	P0300-318	FITTING, 08MFOR-08FFORX-08MFOR
4	8	P0300-193	FITTING, 08MB-PLUG
5	6	P0300-305	FITTING, 08MFOR-08MB
6	4	P0300-316	FITTING, 08MFOR-08MB90
7	4	P0300-430	FITTING, 06MFOR-08MB
8	2	P0300-717	FITTING, 06MFFOR-08MB90
9	3	P0300-355	FITTING, 06MFOR-06MB90
10	1	P0300-338	FITTING, 06MBX-06MBX90
11	8	P0300-375	FITTING, 08MFOR-12MB
12	2	P0300-356	FITTING, 06MFOR-06MB
13	2	P0300-536	FITTING, 12MB-12FB-12FB
14	2	P0300-565	FITTING, 12MORB-08FORB
15	2	P0300-386	FITTING, 6MFS-6MAORB-6MFS
16	1	P0300-602	FITTING, 06MFOR-06MFOR-06FFORX
17	1	P0300-613	FITTING, 06MFOR-06FFORX-06MFOR
18	1	P0300-372	FITTING, 12MFFOR-12MB90
19	2	P0300-359	FITTING, 12MFSX12MAORB
20	2	P0300-677	FITTING, 12MB-6FB
21	2	P0300-042	FITTING, 9/16 Elbow Connector
22	1	P0300-329	FITTING, 12MFS-12MORB
23	1	P0300-424	FITTING, 12MFFOR-12FFORX90
24	1	P0300-629	FITTING, 08MFOR-08MFOR-08MFOR-08MFOR
25	1	P0300-332	ORING
26	1	P0300-628	FITTING, 08FFORX-08MJ
27	2	P0300-735	FITTING, 6MJ-6MB
28	2	P0300-403	PLUG, 6MFFOR PLUG

POWERED CUTTER HEAD HOSES



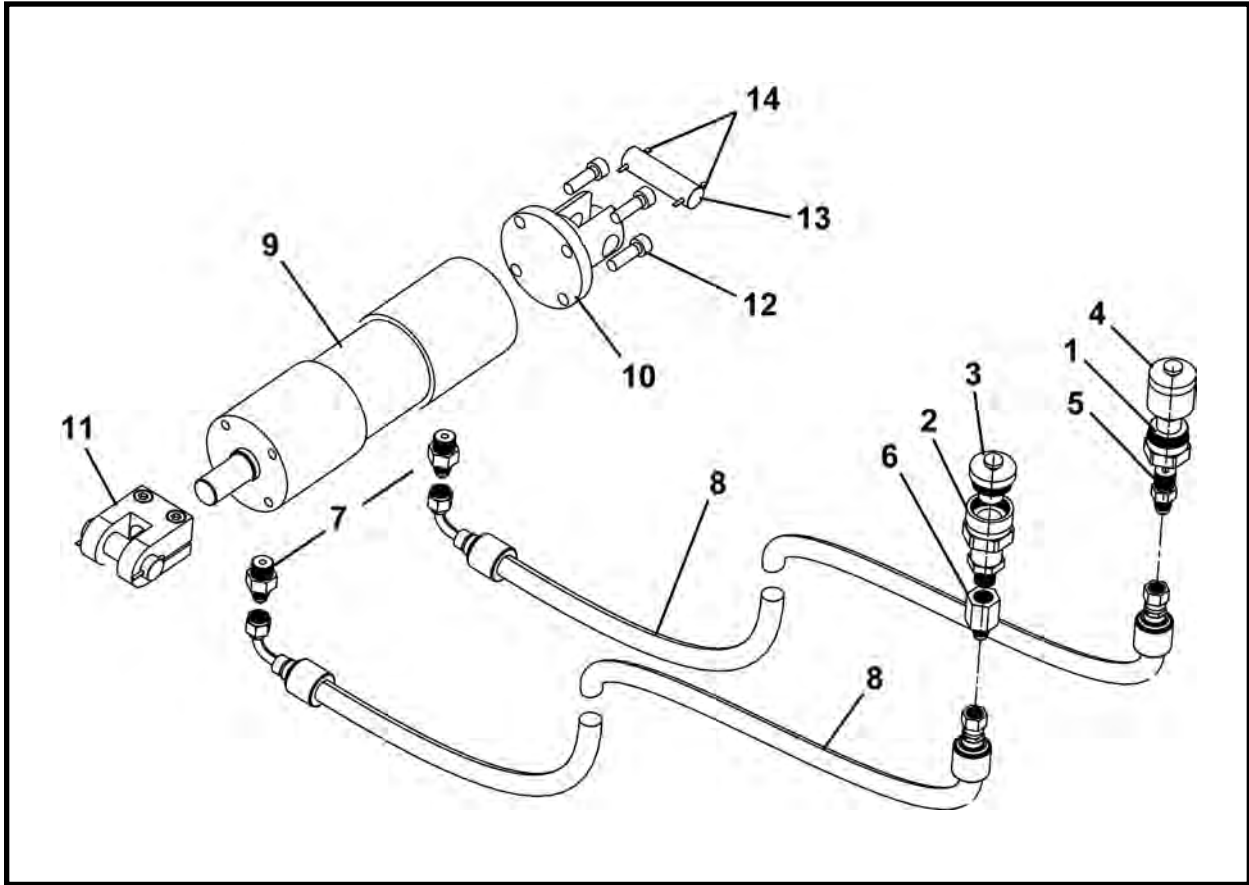
ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA44767F	PCH CASE DRAIN HOSE, PCH 20/22.5/28.5 (Includes items 1a - 1c)
1a	1	P0100-088	COUPLER, Female Quick
1b	1	P0100-089	COUPLER, Male Quick
1c	1	A10095A-1200	ASSEMBLY, Hose 3/8 x 100 ft
2*	1	FA44768F	PCH AUGER DRIVE HOSE, PCH 20/22.5/28.5 (Includes items 2a - 2b)
2a*	1	A44772A	ASSEMBLY, Hose 3/4 x 100 ft
2b	9.17 QT	P0126-001	OIL, Hydraulic
3**	1	FA47000F	PCH AUGER DRIVE HOSE, PCH 20/22.5/28.5 (Includes items 3a - 3d)
3a**	1	A09992A-1200	HOSE ASSEMBLY 3/4 x 100 ft
3b**	1	P0100-099	COUPLER HALF, Female 1
3c**	1	P0100-100	NIPPLE HALF, Male 1
3d	9.17 QT	P0126-001	OIL, Hydraulic
4*	1	FA44769F	PCH CUTTER BIT HOSE, PCH 20/22.5/28.5 (Includes items 3a - 3b)
4a*	1	A44773A	ASSEMBLY, Hose 3/4 x 100 ft
4b*	9.17 QT	P0126-001	OIL, Hydraulic
5**	1	FA47740F	PCH CUTTER BIT HOSE, PCH 20/22.5/28.5 (Includes items 4a - 4d)
5a**	1	A09821A-1200	HOSE ASSEMBLY 3/4 x 100 ft
5b**	1	P0100-103	COUPLER HALF, Female 3/4
5c**	1	P0100-104	NIPPLE HALF, Male 3/4
5b	9.17 QT	P0126-001	OIL, Hydraulic
6	1	A10476A-300	PCH JETTING HOSE, 3/8 x 25 ft
7	1	P0200-103	PCH LUBE HOSE, 5/8 x 25 ft

QT -Quart

* Stucci Hoses (Earlier Models)

** Snap Tite (Parker) Hoses (Later Models)

HYDRAULIC PLUMBING - BREAKOUT TOOL, A40233A
BREAKOUT TOOL - RECEPTION SHAFT

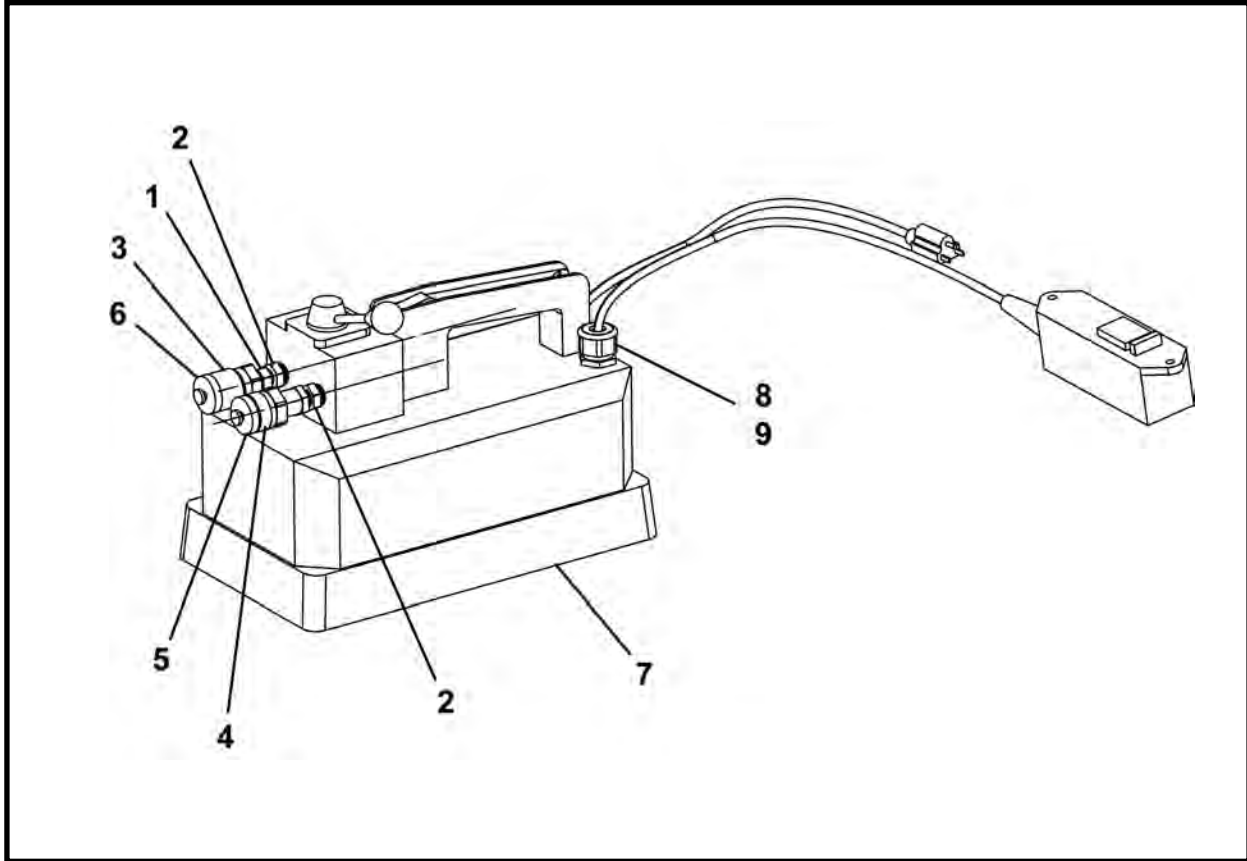


ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A40233A	HYDRAULIC PLUMBING - BREAKOUT TOOL
1	1	P0100-010B	NIPPLE
2	1	P0100-010A	COUPLER
3	1	P0100-010E	PLUG, Dust
4	1	P0100-010D	CAP, Dust
5	1	P0300-249	FITTING, 04MJ-04MP
6	1	P0300-268	FITTING, 04MJ-04FP
7	2	P0300-245	FITTING, 04MJ-06MB
8	2	A10405A-120	HOSE ASSEMBLY 1/4 x 120
9**	1	P0307-146	CYLINDER
10	1	A40589P	MOUNT, Pivot
11	1	P0307-136B	KIT, Rod Clevis
12	4	P0031A-05-004	SCREW, Socket Head Cap 5/16 NF x 1
13	1	P0307-136B1	CLEVIS
14	2	P0048-025	PIN, Cotter 1/8 x 1

* For main assembly parts information, refer to Pilot Tube Breakout Tool - Reception Shaft, in Section 11, Miscellaneous/Tooling.

** For parts information, refer to Section 10, Cylinders.

POWER PACK 120V, A40257A
BREAKOUT TOOL - RECEPTION SHAFT



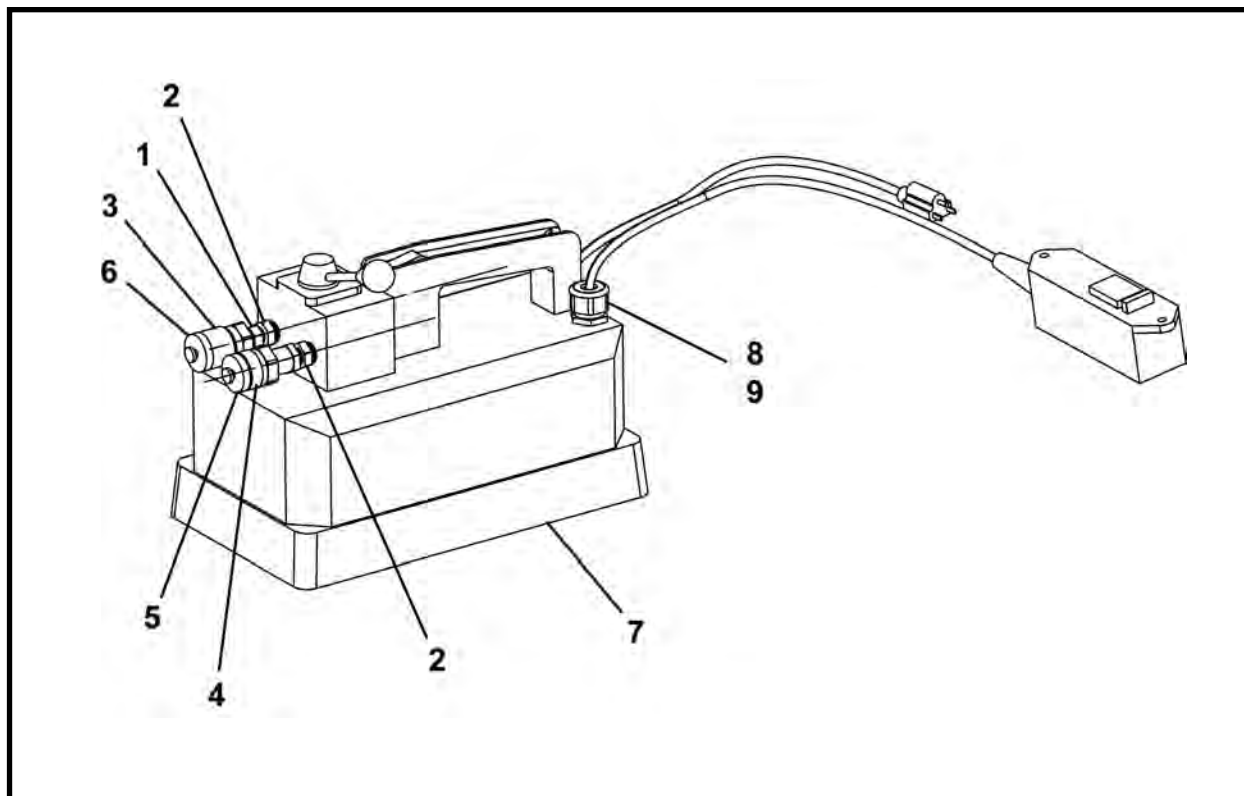
ITEM	QTY	PART NO.	DESCRIPTION
0*	1	***A40257A	POWER PACK 120V
1	1	P0300-113	FITTING, 04MP-04MP
2	2	P0300-093	FITTING, 06MP-04FPS
3	1	P0100-010B	NIPPLE
4	1	P0100-010A	COUPLER
5	1	P0100-010E	PLUG, Dust
6	1	P0100-010D	CAP, Dust
7**	1	P0303-251	PUMP WITH REMOTE 120V
8	1	P0311-121	RELIEF, Strain
9	1	P0311-018	NUT, 1/2

* For main assembly parts information, refer to Pilot Tube Breakout Tool - Reception Shaft, FA40230F in Section 11, Miscellaneous.

** A 230V Power Pack, P0303-346 is available. For parts information, refer to Power Pack 230V, A45440A in this section.

*** For additional parts information, refer to Section 9, Pumps.

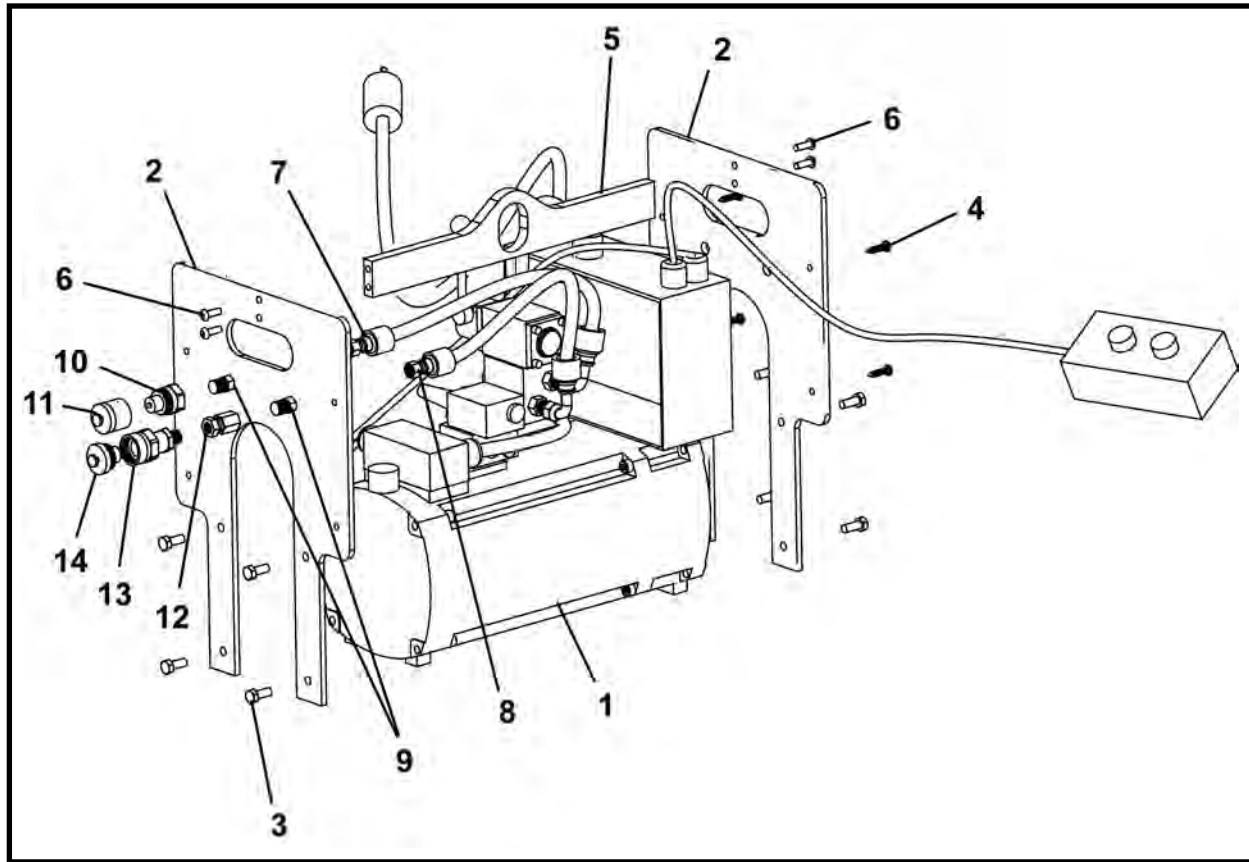
POWER PACK 230V, A45440A
BREAKOUT TOOL - RECEPTION SHAFT



ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A45440A	POWER PACK 230V
1	1	P0300-113	FITTING, 04MP-04MP
2	2	P0300-093	FITTING, 06MP-04FPS
3	1	P0100-010B	NIPPLE
4	1	P0100-010A	COUPLER
5	1	P0100-010E	PLUG, Dust
6	1	P0100-010D	CAP, Dust
7	1	P0303-346	PUMP WITH REMOTE 230V
8	1	P0311-121	RELIEF, Strain
9	1	P0311-018	NUT, 1/2

* For main assembly parts information, refer to Pilot Tube Breakout Tool - Reception Shaft, FA40221F in Section 11, Miscellaneous.

POWER PACK, 1 HP SEALED 120V, A46443A
BREAKOUT TOOL - RECEPTION SHAFT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A46443A	POWER PACK, 1 HP Sealed
1	1	P0303-347	POWER UNIT
2	2	A46441P	PLATE, End
3	8	PM08A-1.25-020	BOLT
4	4	P0035-014B	SCREW, Pan Head Tap
5	1	A46442P	CROSSBAR
6	4	P0022-14-204	SCREW, Button Head Socket 1/4 UNC x .75
7	1	A10371A-017	HOSE ASSEMBLY, 1/4 x 17
8	1	A10371A-013	HOSE ASSEMBLY, 1/4 x 13
9	2	P0300-740	FITTING, 04MP-04MJBKHD
10	1	P0100-010B	NIPPLE
11	1	P0100-010D	CAP, Dust
12	1	P0300-785	FITTING
13	1	P0100-010A	COUPLER
14	1	P0100-010E	PLUG, Dust



Valves

GBM Frame

240A, 308A (FA40032F-20 & Before)	
Single Section Valve, P0302-419	2
Two Section Valve, P0302-420	3
308A (SN FA40032F-21 & After), 339A	
Two Section Valve, P0302-503	4
240A, 308A, 339A	
Three Section Valve, A42461P	5
308A (SN FA40032F-21 & After), 339A	
Three Section Valve, P0302-502	6
240A, 308A, 339A	
Pressure Reducing Valve, P0302-421A	7

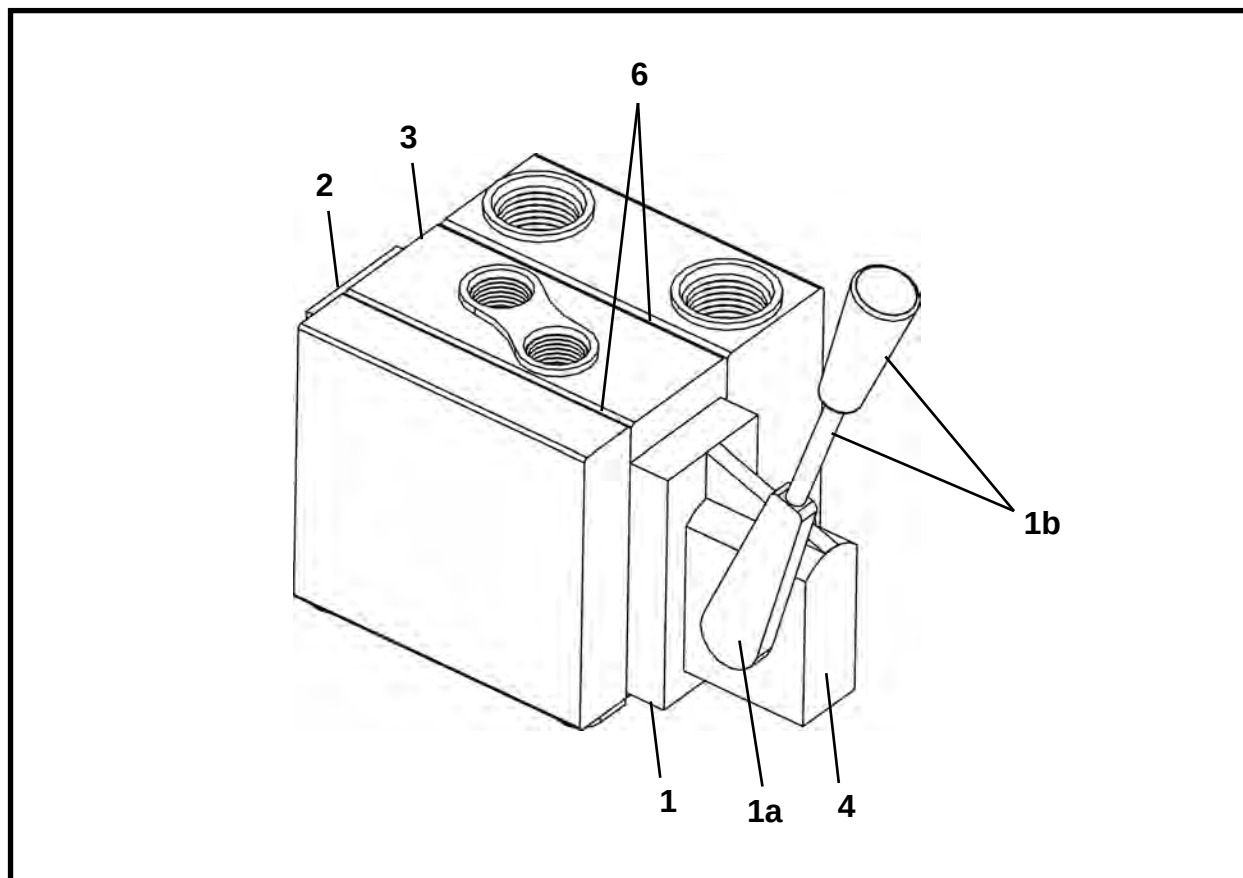
Power Packs

P100Q, P100E, P150Q	
Relief Valve, P0302-402	8
P150Q	
Relief Valve, P0302-544	9

Pullback Tool Assembly

Valve, 2800 PSI, P0302-145	10

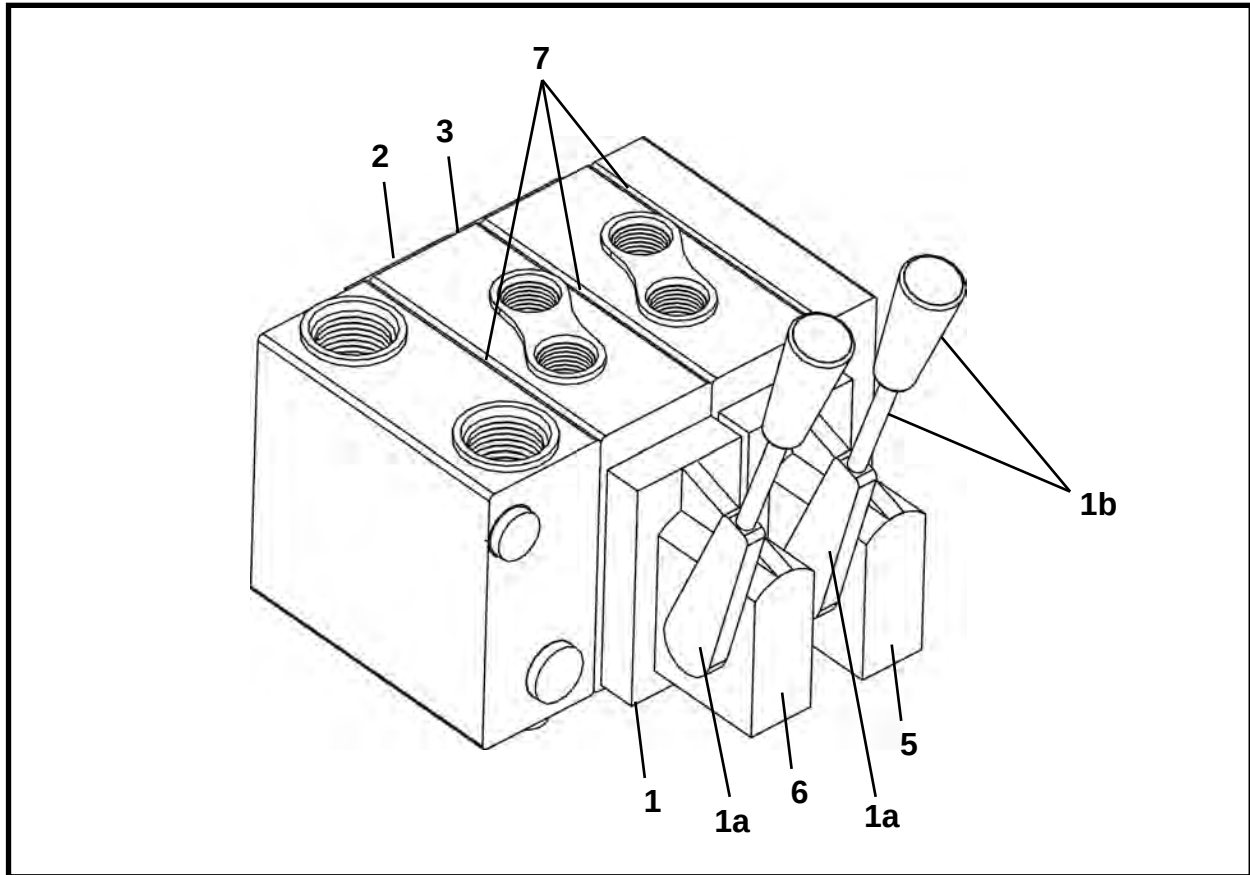
SINGLE SECTION VALVE, P0302-419
240A - 308A (SN FA40032F-20 & Before)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-419	VALVE, Single Section
1	1	P0302-383A	HANDLE ASSEMBLY (Includes item 1a)
1a	1	P0302-383I	HANDLE
1b	1	P0302-420B	HANDLE
2	1	P0302-383B	COVER
3	1	P0302-457	VALVE BODY
4	1	P0302-518	SPOOL, 26 GPM
5*	1	P0302-383G	KIT, Spool Seal
6	1	P0302-449	KIT, Section Seal

* Not Shown

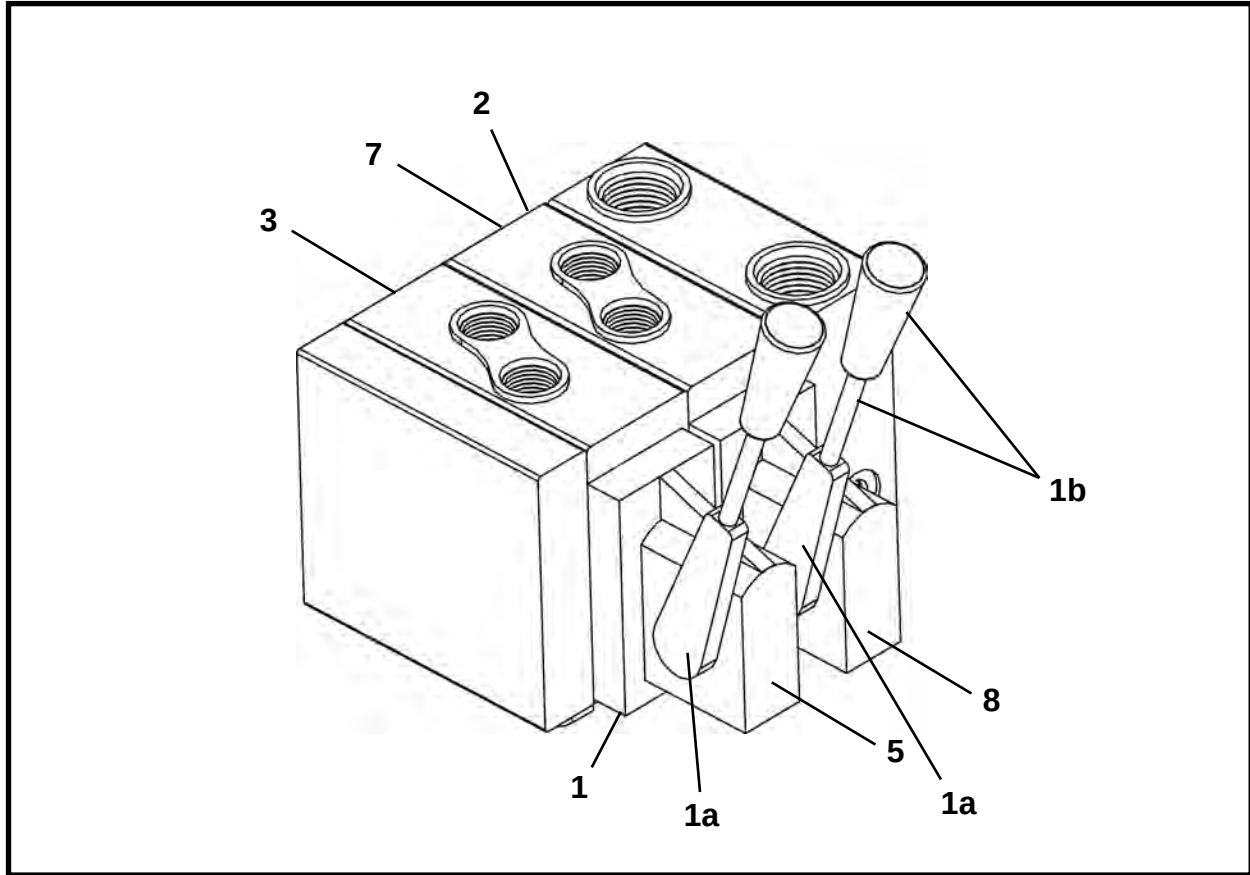
TWO SECTION VALVE, P0302-420
240A - 308A (SN FA40032F-20 & Before)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-420	VALVE, Two Section
1	2	P0302-383A	HANDLE ASSEMBLY (Includes item 1a)
1a	1	P0302-383I	HANDLE
1b	1	P0302-420B	HANDLE
2	2	P0302-383B	COVER
3	2	P0302-457	VALVE BODY
4*	2	P0302-383G	KIT, Spool Seal
5	1	P0302-420A	SPOOL, 6 GPM
6	1	P0302-518	SPOOL, 26 GPM
7	1	P0302-448	KIT, Section Seal

* Not Shown

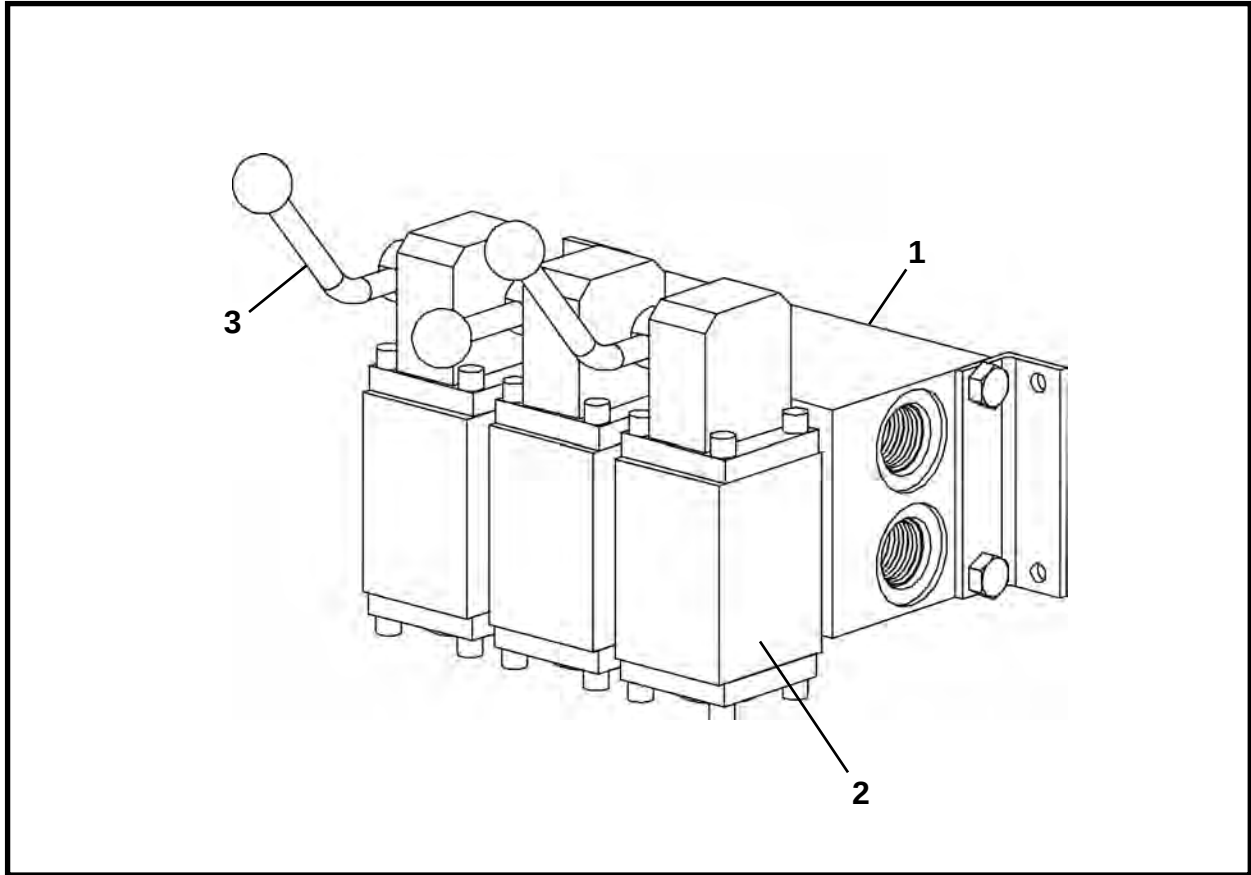
TWO SECTION VALVE, P0302-503
308A (SN FA40032F-21 & After) - 339A



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-503	VALVE, Two Section
1	2	P0302-383A	HANDLE ASSEMBLY (Includes item 1a)
1a	1	P0302-383I	HANDLE
1b	1	P0302-420B	HANDLE
2	1	P0302-383B	COVER
3	2	P0302-457	VALVE BODY
4*	2	P0302-383G	KIT, Spool Seal
5	1	P0302-518	SPOOL, 26 GPM (Cylinder Spool)
6*	1	P0302-448	KIT, Section Seal & Tie Rods
7	1	P0302-503A	DETENT, Friction
8	1	P0302-503B	SPOOL, 26 GPM (Motor Spool)

* Not Shown

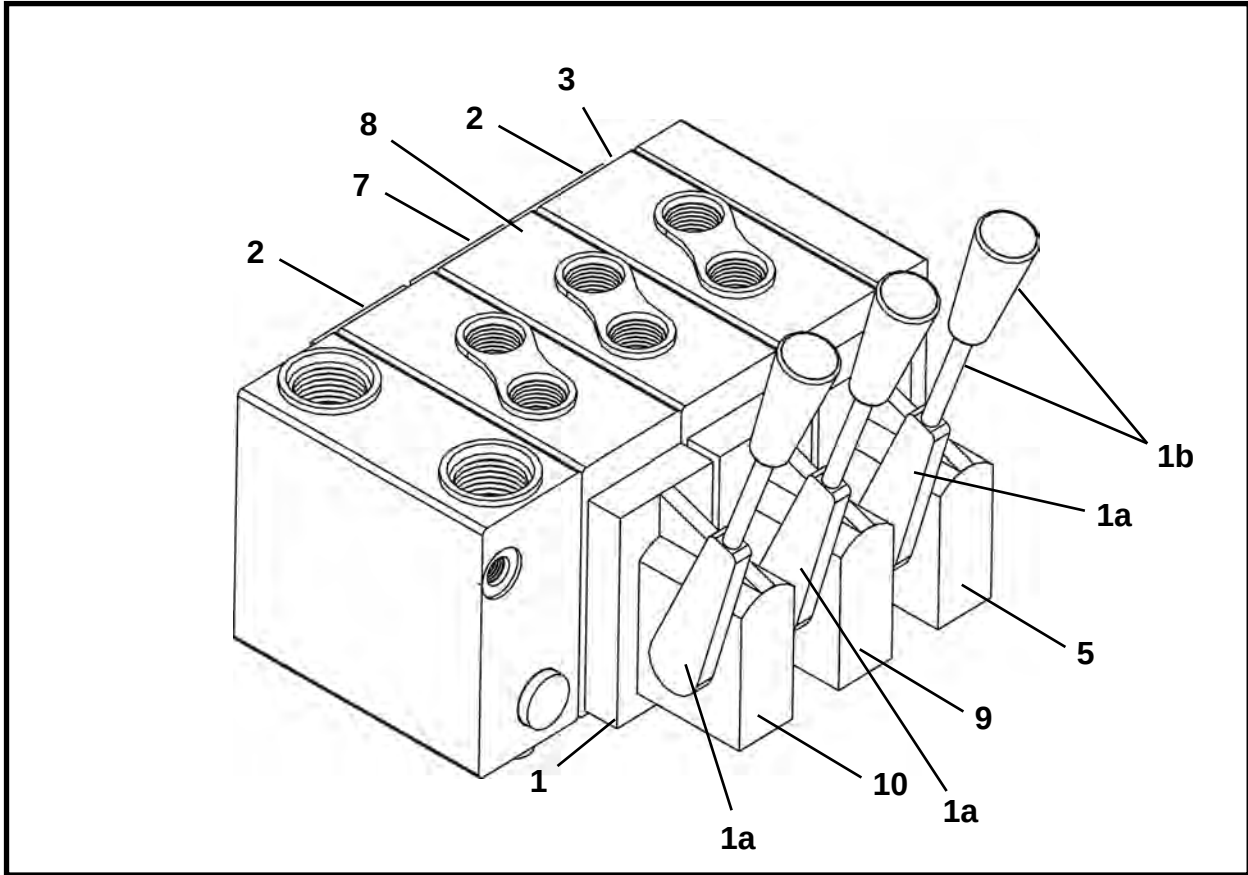
THREE SECTION VALVE, A42461P
240A - 308A - 339A



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42461P	VALVE, Three Section
1	1	P0302-421	VALVE, Three Bank, & Block
2	3	P0302-421C	VALVE, Single Valve Section With Handle
3	3	P0302-421B	HANDLE & KNOB
4*	1	P0302-421A	VALVE, Steering Pressure Reducing

* Not Shown

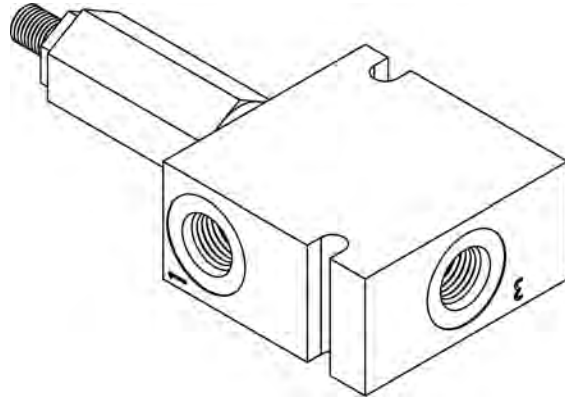
THREE SECTION VALVE, P0302-502
308A (SN FA40032F-21 & After) - 339A



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-502	VALVE, Three Section
1	3	P0302-383A	HANDLE ASSEMBLY (Includes item 1a)
1a	1	P0302-383I	HANDLE
1b	1	P0302-420B	HANDLE
2	2	P0302-383B	COVER
3	3	P0302-457	VALVE BODY
4*	3	P0302-383G	KIT, Spool Seal
5	1	P0302-420A	SPOOL, 6 GPM
6*	1	P0302-459	KIT, Section Seal & Tie Rods
7	1	P0302-456	COVER
8	1	P0302-460	DETENT, Spool
9	1	P0302-461	SPOOL, 34 GPM
10	1	P0302-518	SPOOL, 26 GPM

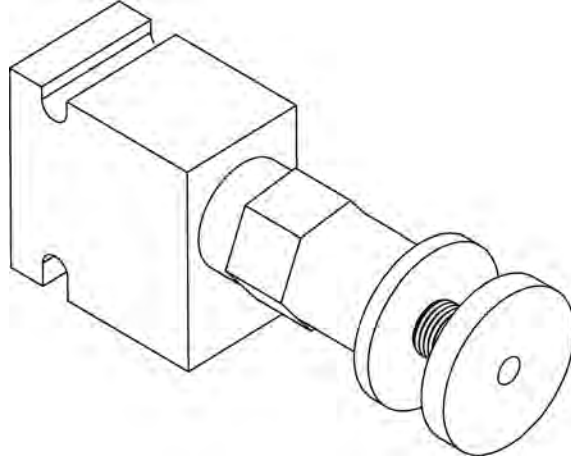
* Not Shown

PRESSURE REDUCING VALVE, P0302-421A
240A - 308A - 339A



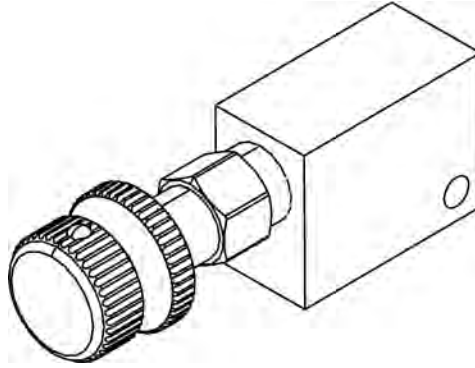
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-421A	VALVE, Pressure Reducing

RELIEF VALVE, P0302-402
P100Q - P100E - P150Q



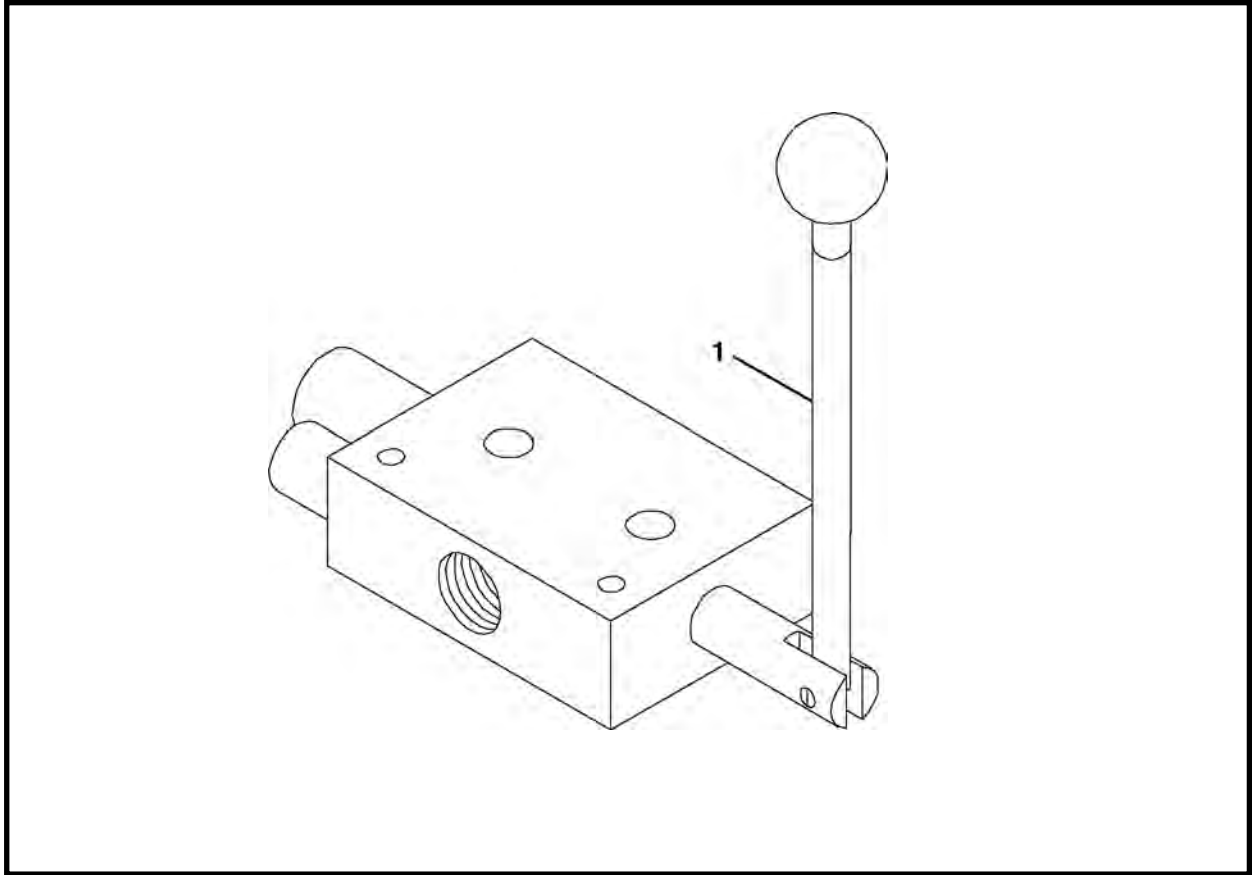
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-402	VALVE, Relief 5000 PSI

RELIEF VALVE, P0302-544
P150Q



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-544	VALVE, Relief 5000 PSI

VALVE, 2800 PSI, P0302-145
PULL ASSIST TOOL ASSEMBLY



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-145	VALVE, 2800 PSI
1	1	P0302-110A	HANDLE



Motors

GBM Frame

Drive Motor

240A (SN FA40027F-55 & Before), 308, 339 (SN FA43500F-06 & Before)	
Motor, Drive, SAI, P0304-160	2
Motor, Drive, VIS, P0304-169	3
240A (SN FA40027F-56 & After), 339 (SN FA43500F-07 & After)	
Motor, Drive, VIS, P0304-335	4

Latching Frame Travel Motor (308A, 339A)

Motor, Travel, P0304-161	5

P100E Power Pack

Motor, 100 HP, P0251-404	6

Powered Cutter Head

PCH 20 - 22.5 - 28.5 - 30.5 (Front Section)

Motor, PCH Hydraulic Cutter Drive, P0304-165	8

PCH 20 - 22.5 - 28.5 - 30.5 (Rear Section)

Motor, PCH Auger Drive, P0304-172	9

Powered Reaming Head

PRH 20k Drive Assembly

Motor, PCH Hydraulic Cutter Drive, P0304-165	8

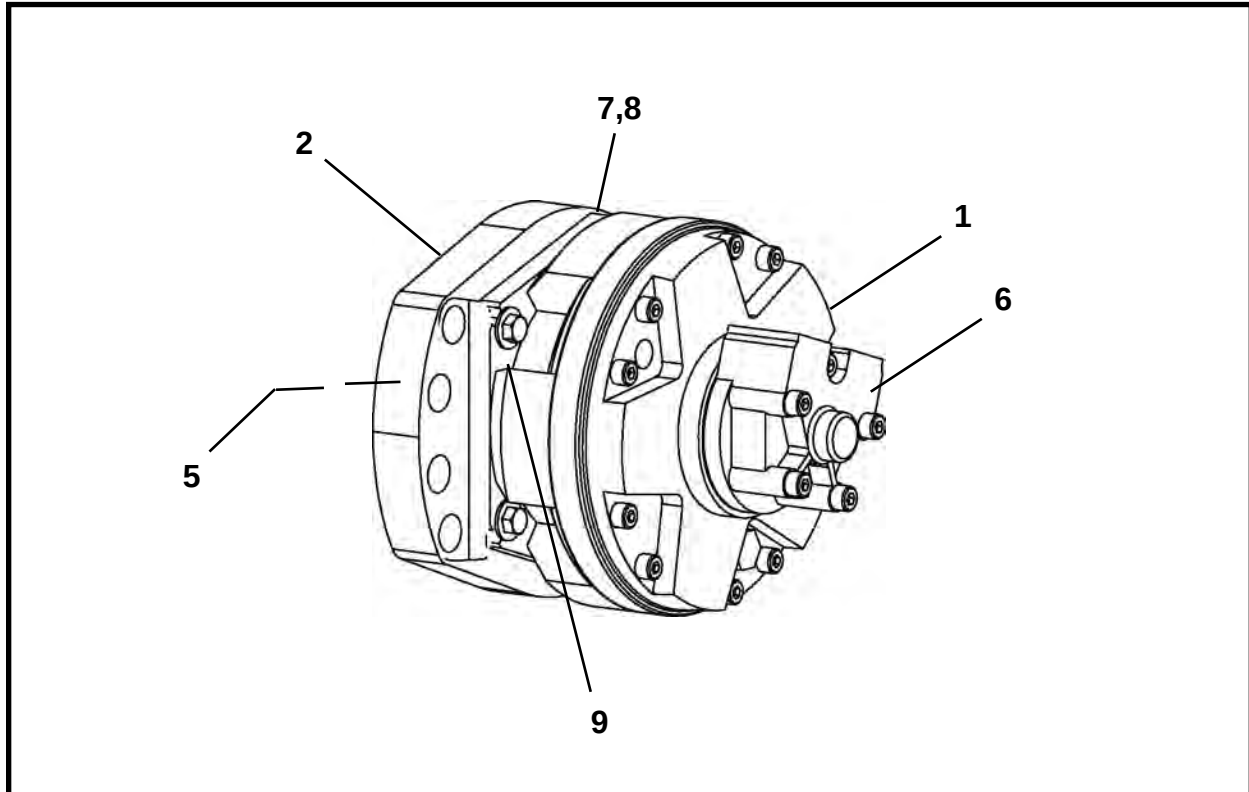
PRH Drive (Small Diameter) Assembly

Motor, PCH Auger Drive, P0304-172	9

Guidance System - Remote Focus

Motor, Remote Focus, A42097A	10

DRIVE MOTOR WITH PLANETARY, P0304-160
GBM FRAMES WITH SAI MOTOR
240A (SN FA40027F-55 & Before) - 308A - 339A (SN FA43500F-06 & Before)



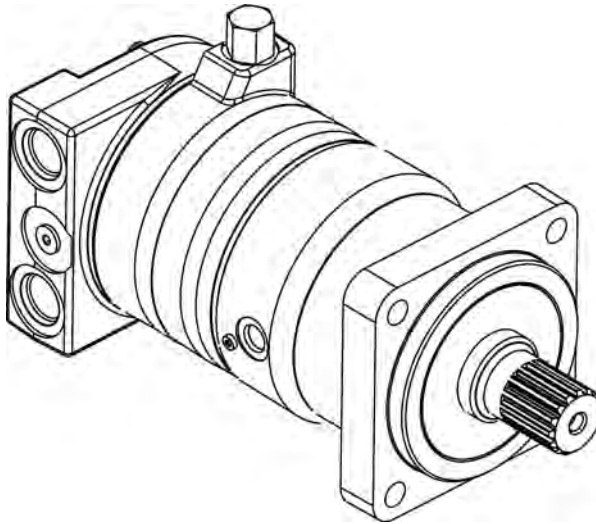
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0304-160	MOTOR, Drive, With Planetary
1*	1	P0304-160C	MOTOR, Hydraulic
2	1	P0304-160F	ASSEMBLY, Planetary
3**	1	P0304-160A	SEAL, Oil
4**	1	P0304-160B	RETAINER, Brass
5	1	P0304-160D	SHAFT, Motor
6	1	P0304-160E	HOUSING, Motor End
7	1	P0304-160G	ORNG, Gearbox To Motor
8	1	P0304-160H	RING, Snap
9	1	P0304-160I	SHAFT, Conversion
10**	A/N	P0304-160J	PIN, Locating
11**	1	P0304-160K	KIT, Seal (with steel ring)

A/N - As Needed

* Hydraulic Motor, P0304-160C is no longer available. Contact your Akkerman Aftermarket Support representative for more information on converting the SAI drive motor to the VIS drive motor (refer to SAI To VIS Drive Motor Conversion Kit, A44764A in Section 6, Hydraulics).

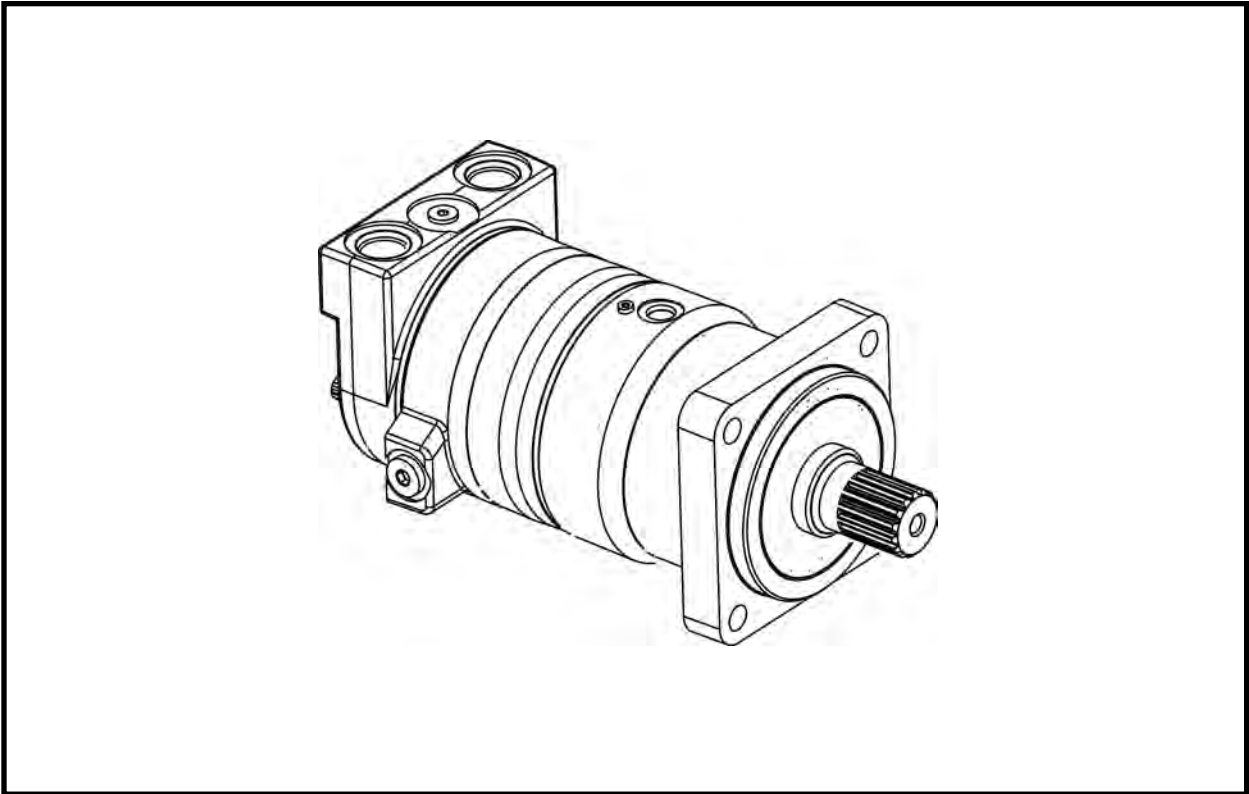
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DRIVE MOTOR, P0304-169
GBM FRAMES WITH VIS MOTOR
240A (SN FA40027F-55 & Before) - 308A - 339A (SN FA43500F-06 & Before)



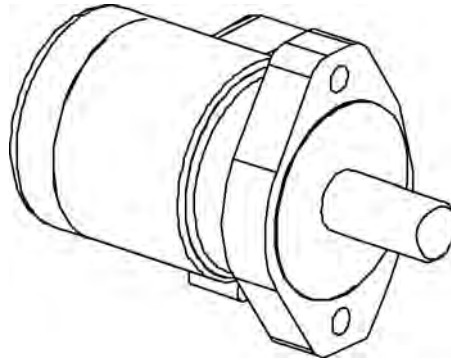
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0304-169	MOTOR, Drive
1	1	P0304-169A	KIT, Seal

DRIVE MOTOR, P0304-335
GBM FRAMES WITH VIS 2 SPEED MOTOR
240A (SN FA40027F-56 & After) - 339A (SN FA43500F-07 & After)



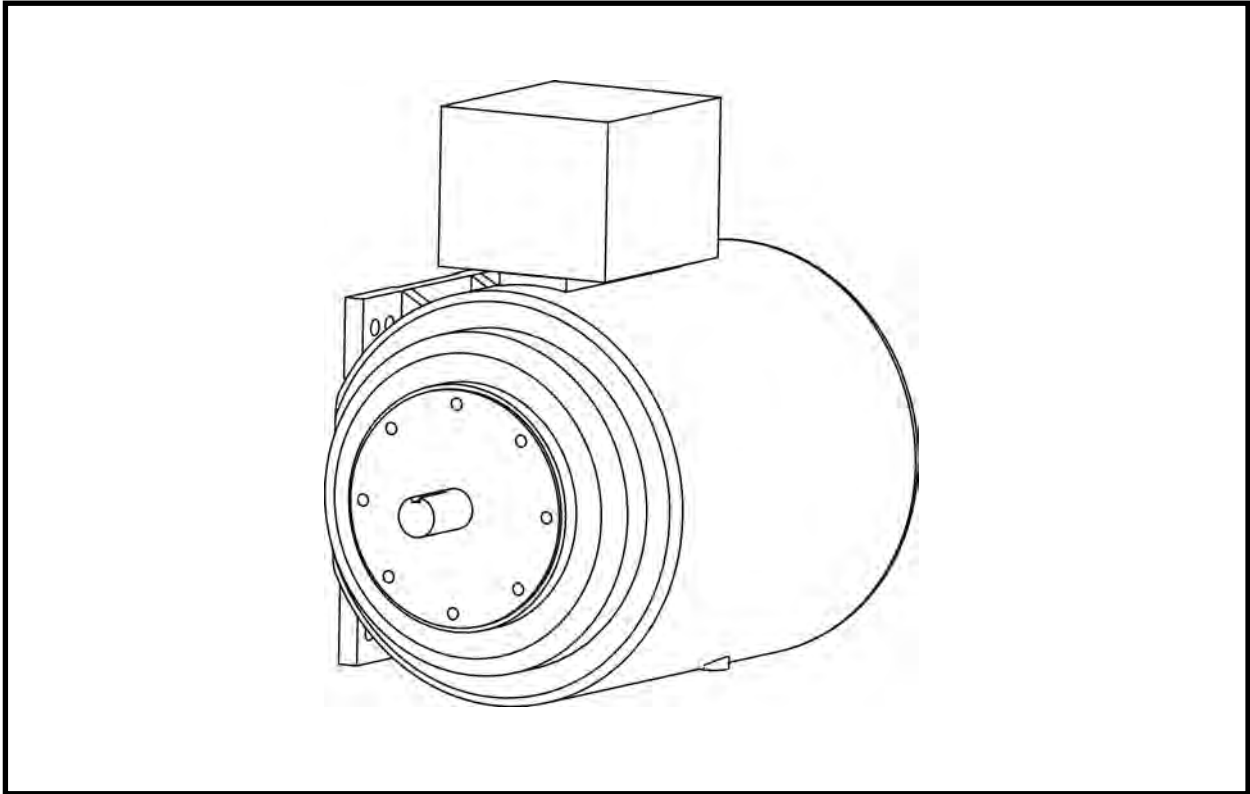
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0304-335	MOTOR, Drive

MOTOR, TRAVEL, P0304-161
308A - 339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	2	P0304-161	MOTOR, Travel (Dual Travel Motors)

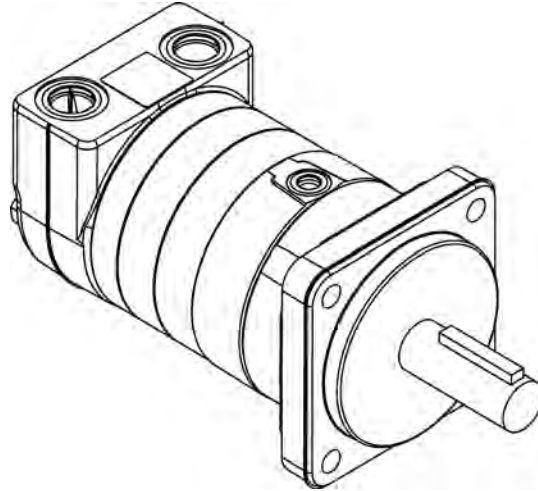
MOTOR, 100HP, P0251-404
P100E POWER PACK



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0251-404	MOTOR, 100HP
1	1	P0251-404A	BASE
2	1	P0251-404B	COVER
3	1	P0251-404C	GASKET, Box
4	1	P0251-404D	GASKET, Cover

NOTES

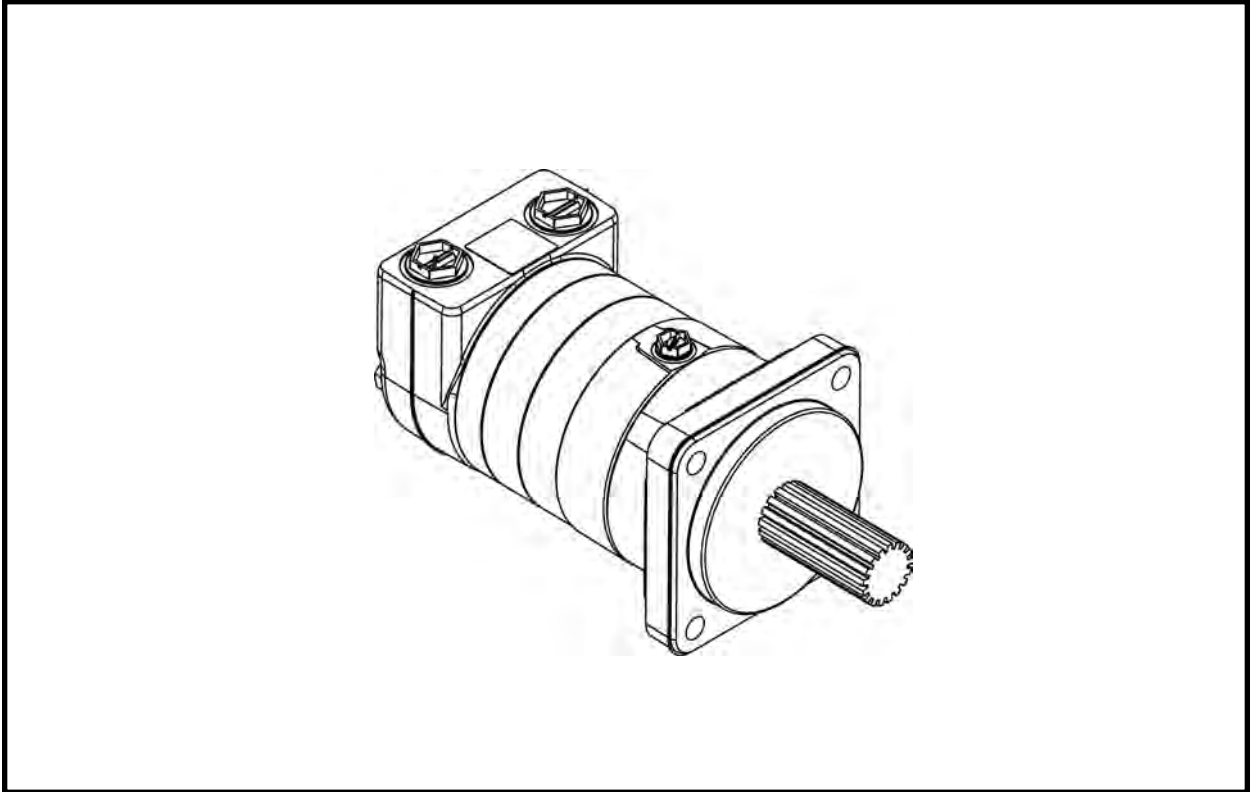
MOTOR, PCH CUTTER DRIVE, P0304-165
PCH 20 - 22.5 - 28.5 - 30.5 FRONT SECTION/PRH 20,000 FT-LB DRIVE



ITEM	QTY	PART NO.	DESCRIPTION
0	*	P0304-165	MOTOR, PCH Cutter Drive
1	*	P0304-165A	SEAL, Shaft

* Per Powered Cutter Head model; quantity 3 for PRH 20,000 ft-lb drive.

MOTOR, PCH AUGER DRIVE, P0304-172
PCH - 20 - 22.5 - 28.5 - 30.5 REAR SECTION / PRH DRIVE (Small Diameter)

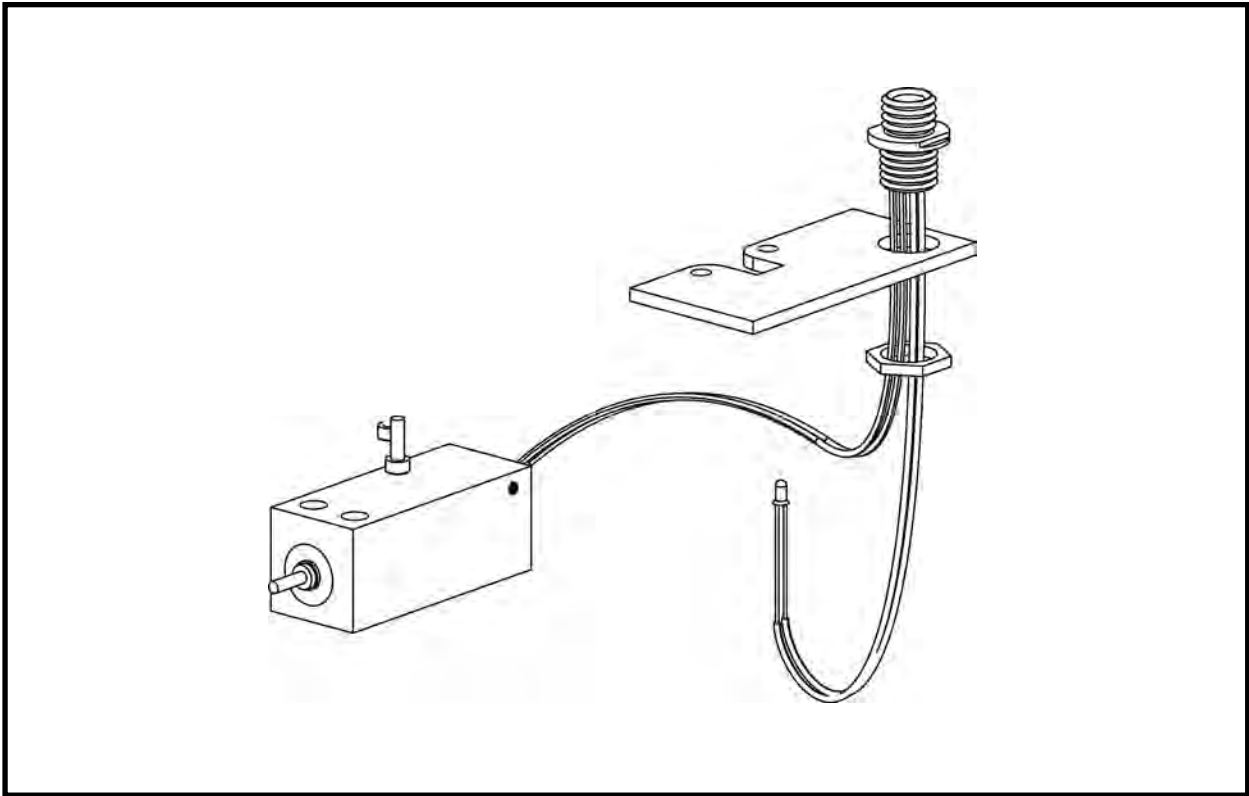


ITEM	QTY	PART NO.	DESCRIPTION
0	*	P0304-172	MOTOR, PCH Cutter Drive
1	1	P0304-172A	SHAFT, Splined
2**	1	P0304-172B	KIT, Seal

* Quantity varies per Powered Cutter Head and Powered Reaming Head model.

** Not Shown

MOTOR, REMOTE FOCUS, A42097A
GUIDANCE SYSTEM - REMOTE FOCUS



ITEM	QTY	PART NO.	DESCRIPTION
0	*	A42097A	MOTOR, Remote Focus



Pumps

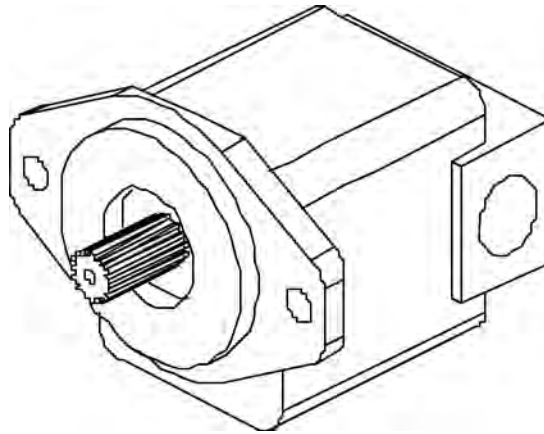
P100Q/P100E/P150Q Power Packs

Gear Pump (P100Q, P100E, P150Q SN FA40035F-5 & Before), P0303-250	2
Gear Pump (P150Q SN FA40035F-6 & After), P0303-381	3
Transfer Pump (P100Q, P100E, P150Q), P0303-281	4
Double Pump (P100Q SN FA42440F-3 & After), P0303-286	6
Double Pump (P100E), P0303-393	7
Triple Pump (P150Q), P0303-343	8

Reception Shaft Breakout Tool

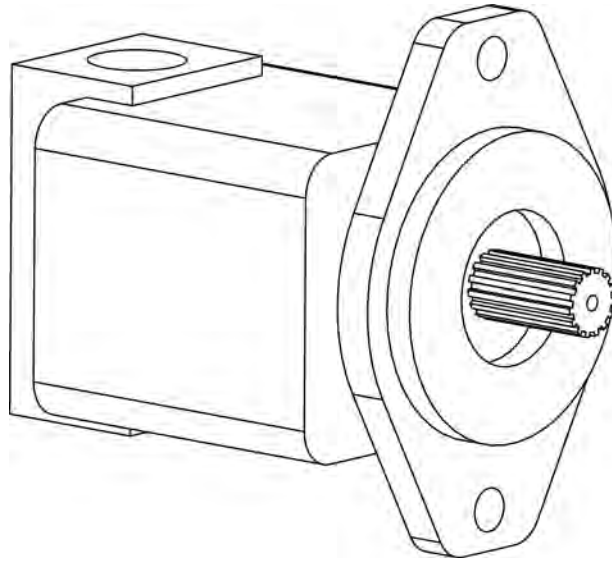
Power Pack 120V, A40257A	9
Pump With Remote 120V, P0303-251	9
Power Pack 230V, A45440A	10
Power Pack 120V, 1 HP Sealed, A46443A	11

GEAR PUMP, P0303-250
P100Q - P100E - P150Q (SN FA40035F-05 & Before) POWER PACKS



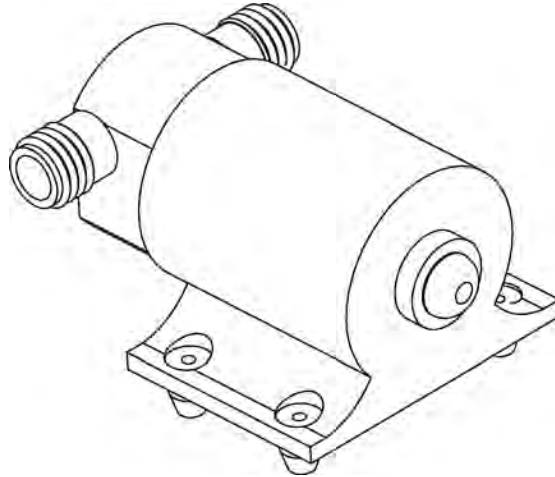
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-250	GEAR PUMP

GEAR PUMP, P0303-381
P150Q (SN FA40035F-6 & After) POWER PACK



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-381	GEAR PUMP

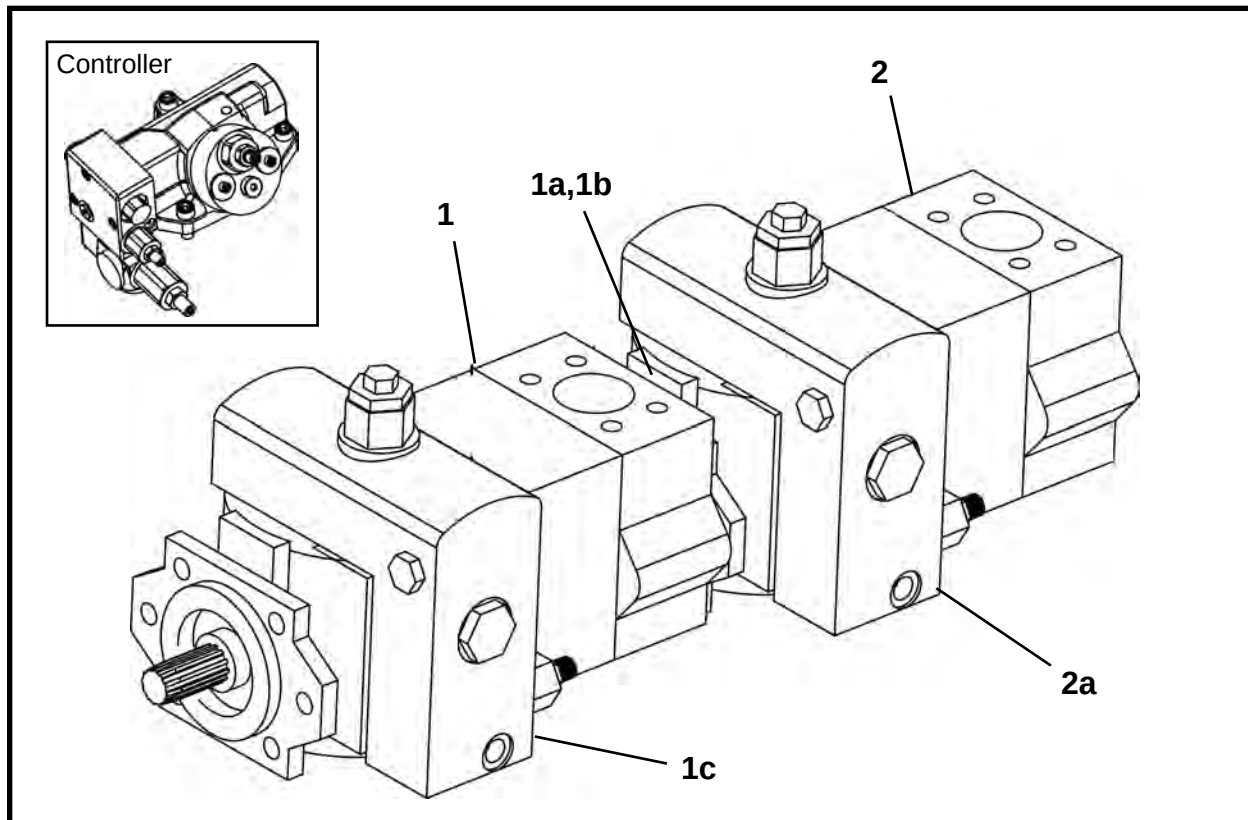
TRANSFER PUMP, P0303-281
P100Q - P100E - P150Q POWER PACKS



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-281	TRANSFER PUMP
1	1	P0303-281A	KIT, Impeller & Seal

NOTES

DOUBLE PUMP, P0303-286
P100Q POWER PACK (SN FA42440F-3 & AFTER)

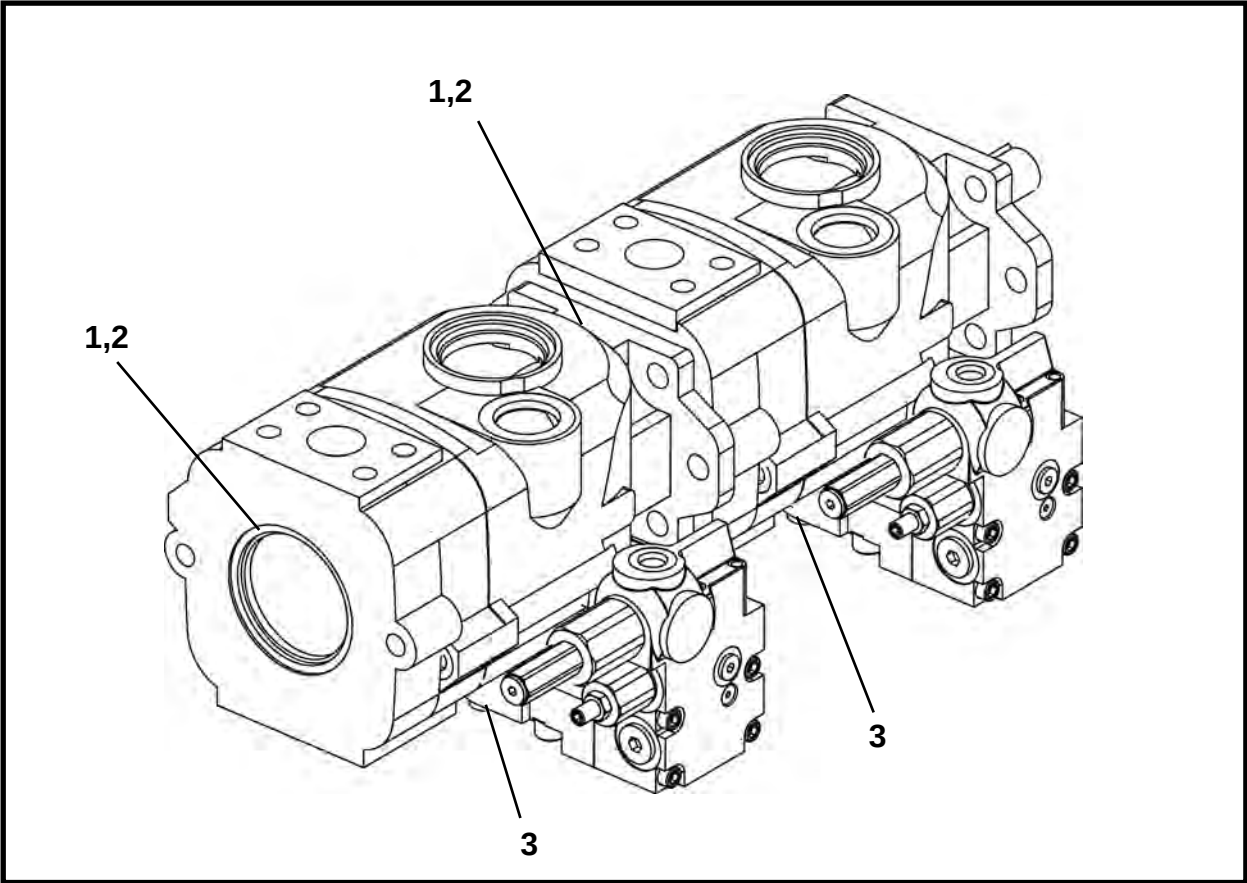


ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-286	DOUBLE PUMP
1	1	P0303-286F	PUMP, Front (PVG-065)
1a	1	P0303-286B	ORING 4.94 OD (Between front & rear pump)
1b	1	P0303-286A	ORING 4.19 OD (Between front & rear pump)
1c	1	P0303-286H	SEAL, Controller (Between pump and controller)
2	1	P0303-286G	PUMP, Rear (PVG-065)
2a	1	P0303-286H	SEAL, Controller (Between pump and controller)

NOTE:

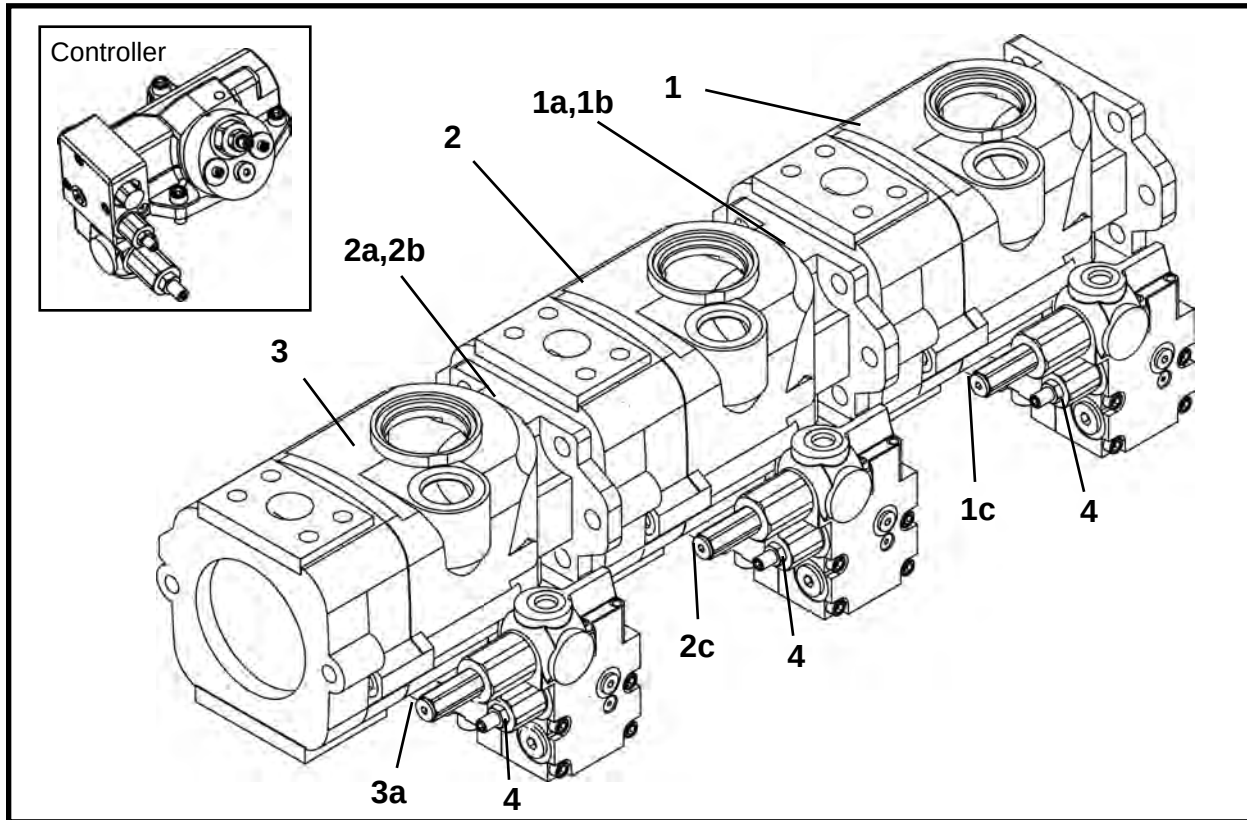
1. If controller requires replacement and your pump is equipped with a square controller, the complete pump section must be replaced. The square controller is no longer available. The round controller (see inset) is the current version.
2. If your pump is equipped with a square controller and this controller is leaking, replace controller gasket with P0303-286C, Gasket, Pump Control.
3. If Hartman pumps (P0303-259 and P0303-260) for P100Q SN FA42440F-1 and 2 require replacement, the pumps must be replaced with the current pump, P0303-286. Contact your Akkerman Aftermarket Support representative for more information.

DOUBLE PUMP, P0303-393
P100E POWER PACK



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-393	DOUBLE PUMP
1	1	P0303-286A	ORING 4.19 OD
1	1	P0303-286B	ORING 4.94 OD
1	1	P0303-286H	SEAL, Controller

TRIPLE PUMP, P0303-343
P150Q POWER PACK



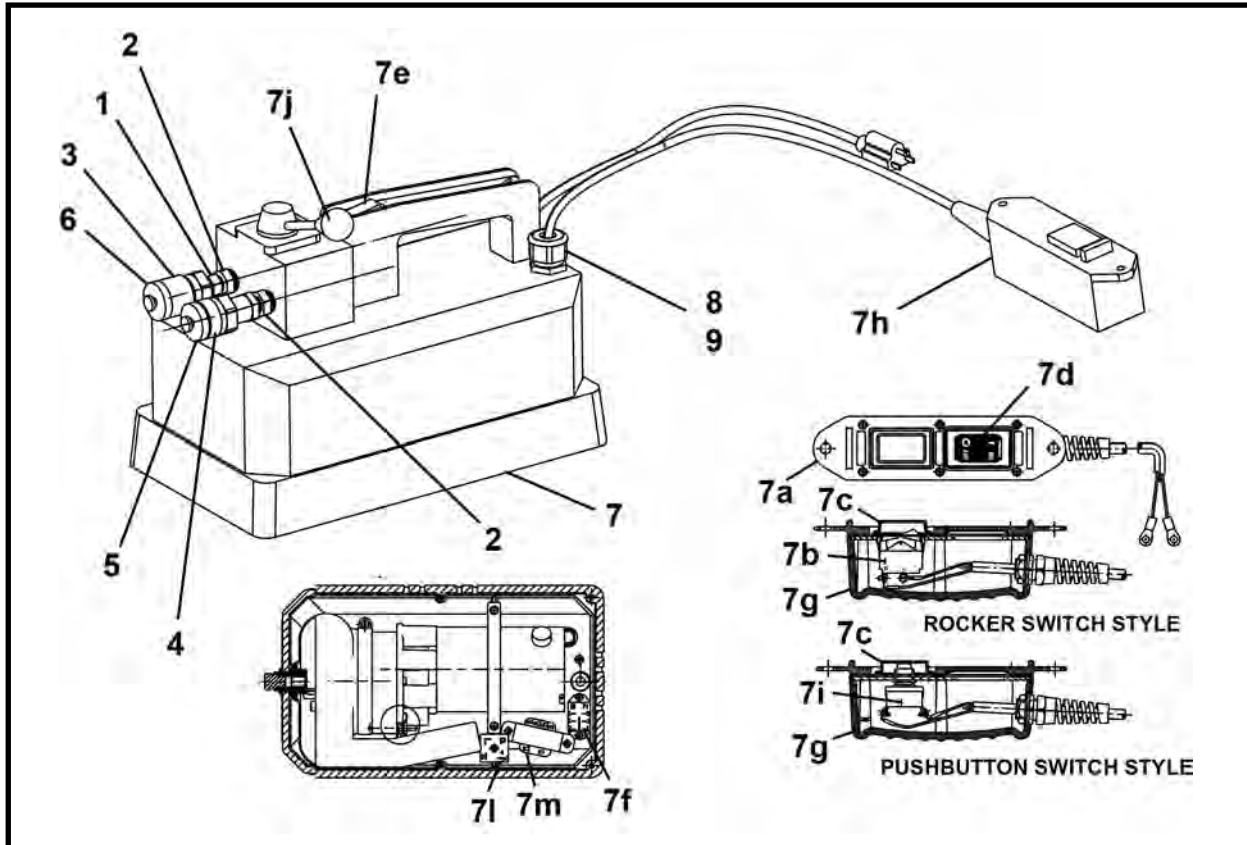
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-343	TRIPLE PUMP
1	1	P0303-286F	PUMP, Front (PVG-065)
1a	1	P0303-286B	ORING 4.94 OD (Between front & middle pump)
1b	1	P0303-286A	ORING 4.19 OD (Between front & middle pump)
1c	1	P0303-286H	SEAL, Controller (Between pump and controller)
2	1	P0303-343B	PUMP, Middle (PVG-065)
2a	1	P0303-286B	ORING 4.94 OD (Between front & middle pump)
2b	1	P0303-286A	ORING 4.19 OD (Between front & middle pump)
2c	1	P0303-286H	SEAL, Controller (Between pump and controller)
3	1	P0303-286G	PUMP, Rear (PVG-065)
3a	1	P0303-286H	SEAL, Controller (Between pump and controller)
4	3	P0303-286I	RELIEF, Pressure Comp.

NOTE:

1. If controller requires replacement and your pump is equipped with a square controller, the complete pump section must be replaced. The square controller is no longer available. The round controller (see inset) is the current version.

2. If your pump is equipped with a square pump controller and this controller is leaking, replace controller gasket with P0303-286C, Gasket, Pump Control.

POWER PACK 120V, A40257A
BREAKOUT TOOL - RECEPTION SHAFT



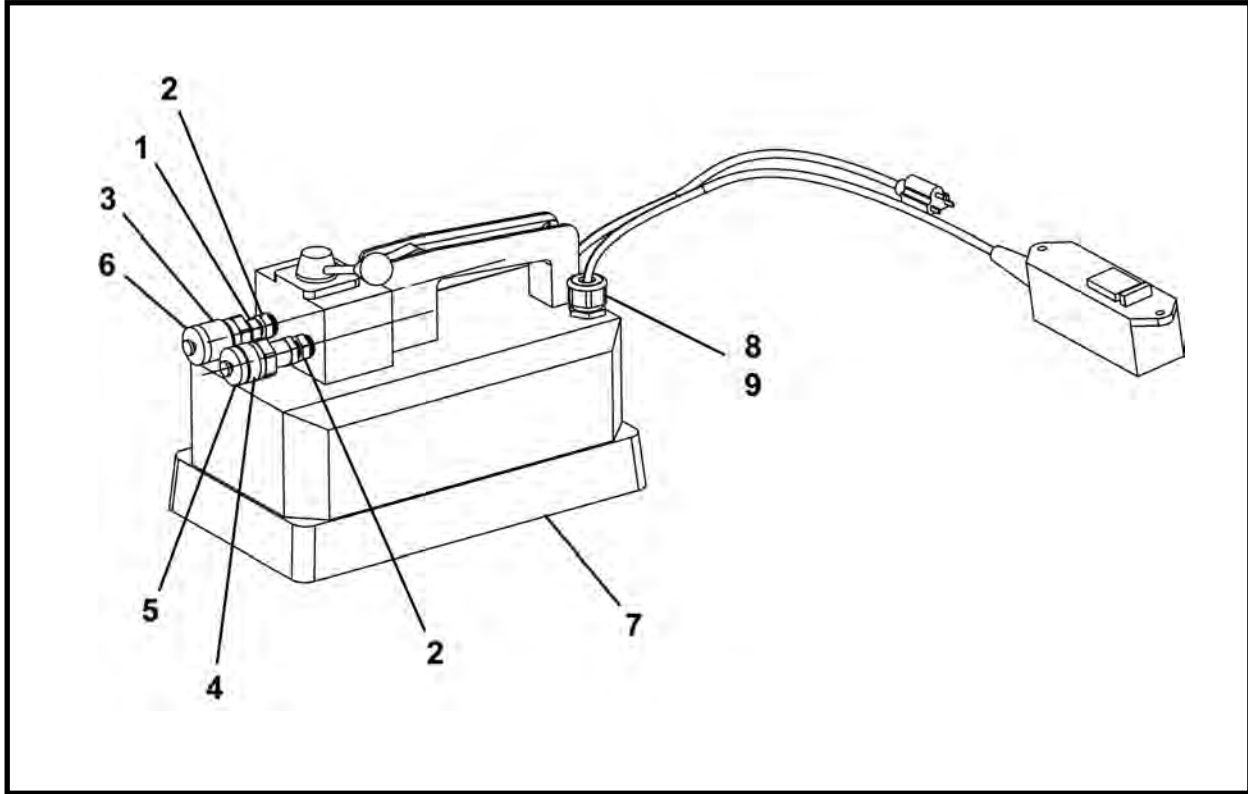
ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A40257A	POWER PACK 120V
1	1	P0300-113	FITTING, 04MP-04MP
2	2	P0300-093	FITTING, 06MP-04FPS
3	1	P0100-010B	NIPPLE
4	1	P0100-010A	COUPLER
5	1	P0100-010E	PLUG, Dust
6	1	P0100-010D	CAP, Dust
7**	1	P0303-251	PUMP WITH REMOTE 120V (Includes items 7a - 7h)
7a	1	P0303-251A	COVER, Remote
7b	1	P0303-251B	SWITCH, Remote
7c	1	P0303-251C	COVER, Remote Switch
7d	1	P0303-251D	DECAL
7e	1	P0303-251E	SWITCH, Pump Rocker
7f	1	P0303-251L	RELAY
7g	1	P0303-251G	HOUSING, Switch
7h	1	P0303-251H	ASSEMBLY, Remote Hand Switch With Cord
7i	1	P0303-251I	SWITCH, Pushbutton
7j	1	P0303-251J	KNOB, Shift
7k***	1	P0303-251K	KIT, Repair
7l	1	P0303-251M	RECTIFIER
7m	1	P0303-251N	TRANSFORMER
8	1	P0311-121	RELIEF, Strain
9	1	P0311-018	NUT, 1/2

* For main assembly parts information, refer to Pilot Tube Breakout Tool - Reception Shaft, FA40230F in Section 11, Miscellaneous.

** A 230V Pump With Remote, P0303-346 is available. Refer to Power Pack 230V, A45440A in this section.

*** Not Shown

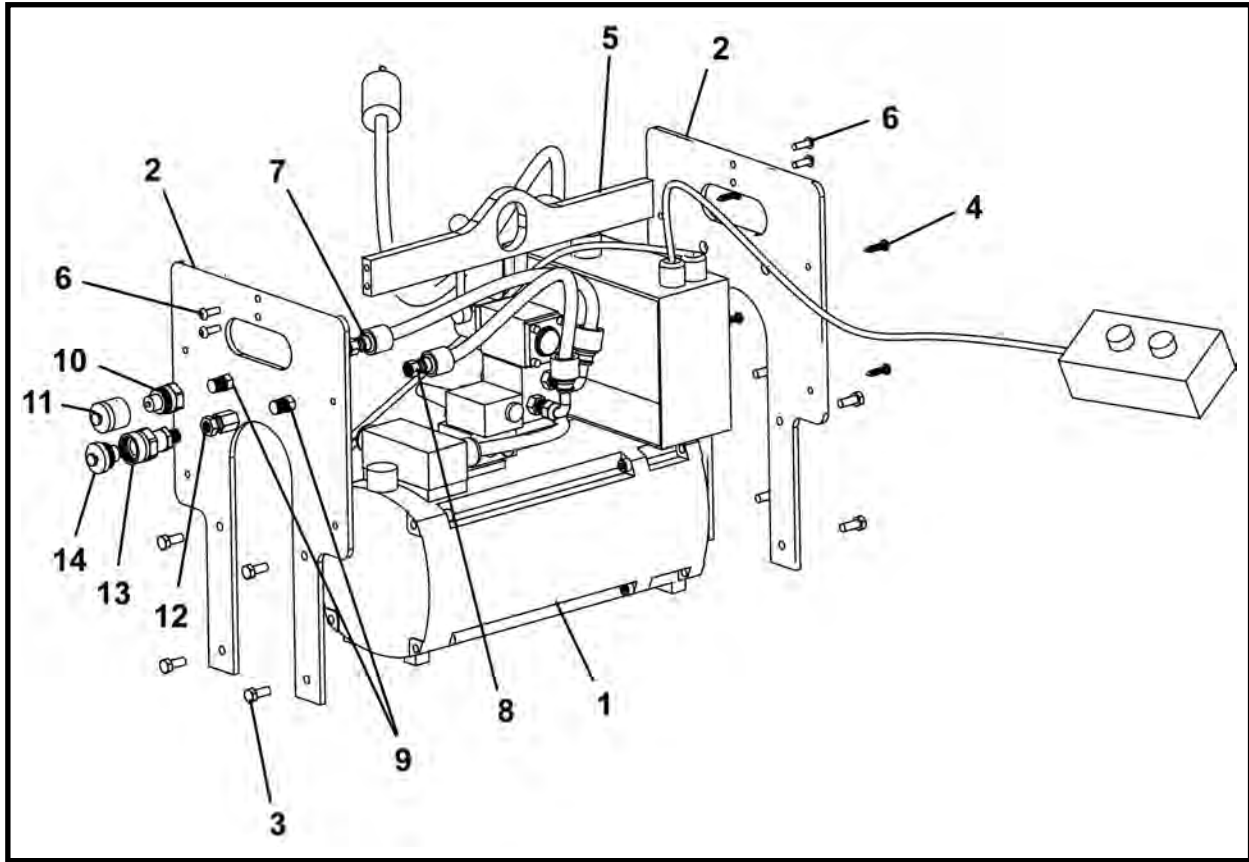
POWER PACK 230V, A45440A
BREAKOUT TOOL - RECEPTION SHAFT



ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A45440A	POWER PACK 230V
1	1	P0300-113	FITTING, 04MP-04MP
2	2	P0300-093	FITTING, 06MP-04FPS
3	1	P0100-010B	NIPPLE
4	1	P0100-010A	COUPLER
5	1	P0100-010E	PLUG, Dust
6	1	P0100-010D	CAP, Dust
7	1	P0303-346	PUMP WITH REMOTE 230V
8	1	P0311-121	RELIEF, Strain
9	1	P0311-018	NUT, 1/2

* For main assembly parts information, refer to Pilot Tube Breakout Tool - Reception Shaft, FA40230F in Section 11, Miscellaneous.

POWER PACK, 1 HP SEALED 120V, A46443A
BREAKOUT TOOL - RECEPTION SHAFT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A46443A	POWER PACK, 1 HP Sealed
1	1	P0303-347	POWER UNIT
2	2	A46441P	PLATE, End
3	8	PM08A-1.25-020	BOLT
4	4	P0035-014B	SCREW, Pan Head Tap
5	1	A46442P	CROSSBAR
6	4	P0022-14-204	SCREW, Button Head Socket 1/4 UNC x .75
7	1	A10371A-017	HOSE ASSEMBLY, 1/4 x 17
8	1	A10371A-013	HOSE ASSEMBLY, 1/4 x 13
9	2	P0300-740	FITTING, 04MP-04MJBKHD
10	1	P0100-010B	NIPPLE
11	1	P0100-010D	CAP, Dust
12	1	P0300-785	FITTING
13	1	P0100-010A	COUPLER
14	1	P0100-010E	PLUG, Dust

NOTES

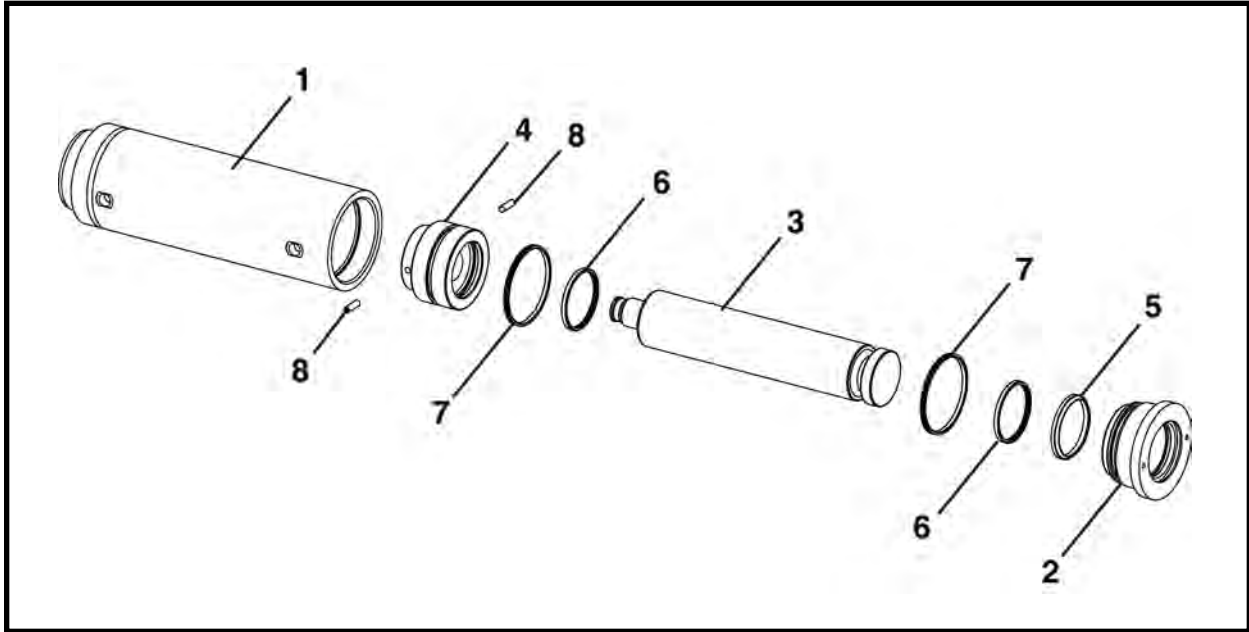


Cylinders

GBM

Latching Frame Thrust Cylinder	
Cylinder Assembly, Frame Extension, A40145A.....	2
Latching Frame Cylinders	
Cylinder Assembly (308A), P0307-151	4
Cylinder Assembly (339A), P0307-202	5
Single Stage Frame Thrust Cylinder	
240A SN FA40027F-73 & Before	
Cylinder Assembly, Frame Extension, A40115A	6
240A SN FA40027F-74 & After	
Cylinder Assembly, Frame Extension, P0307-230	7
Hydraulic Make Up Tool Cylinder	
Cylinder Assembly, 014603A00	8
Reception Shaft Breakout Tool	
Cylinder Assembly, P0307-146	9
PCH 22.5 Dirt Wing Cylinder	
Cylinder Assembly, P0307-204	10
Pipe Restraint Clamp Assembly Cylinder	
Cylinder Assembly, 014603A00	11

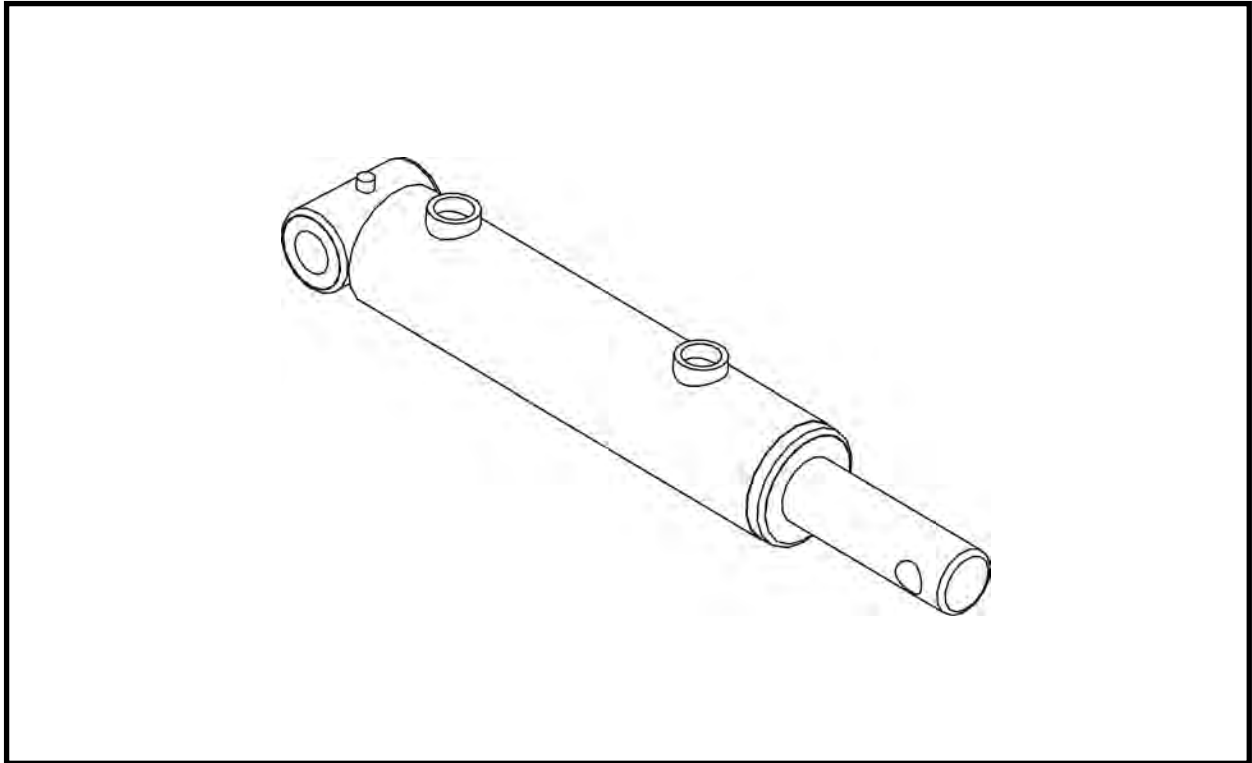
CYLINDER ASSEMBLY, FRAME EXTENSION, A40145A
LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40145A	CYLINDER ASSEMBLY, Frame Extension
1	1	A40146A	BARREL WELDMENT
2	1	A40452P	GLAND
3	1	A40851P	SHAFT
4	1	A40454P	PISTON
5	1	P0087-011	WIPER, Rod
6	2	P0086-028	ROD T SEAL
7	2	P0086-029	PISTON T SEAL
8	2	P0033-06-020	SCREW, Set

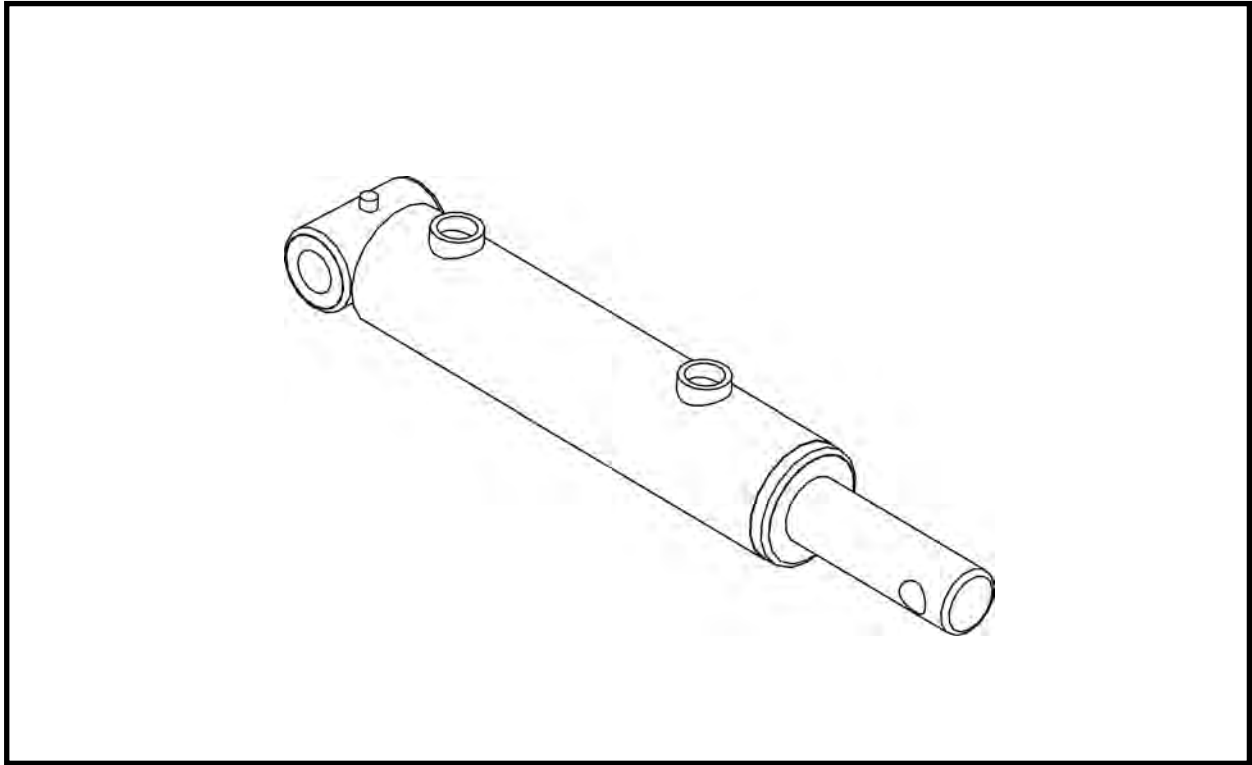
NOTES

CYLINDER ASSEMBLY, P0307-151
308A LATCHING FRAME



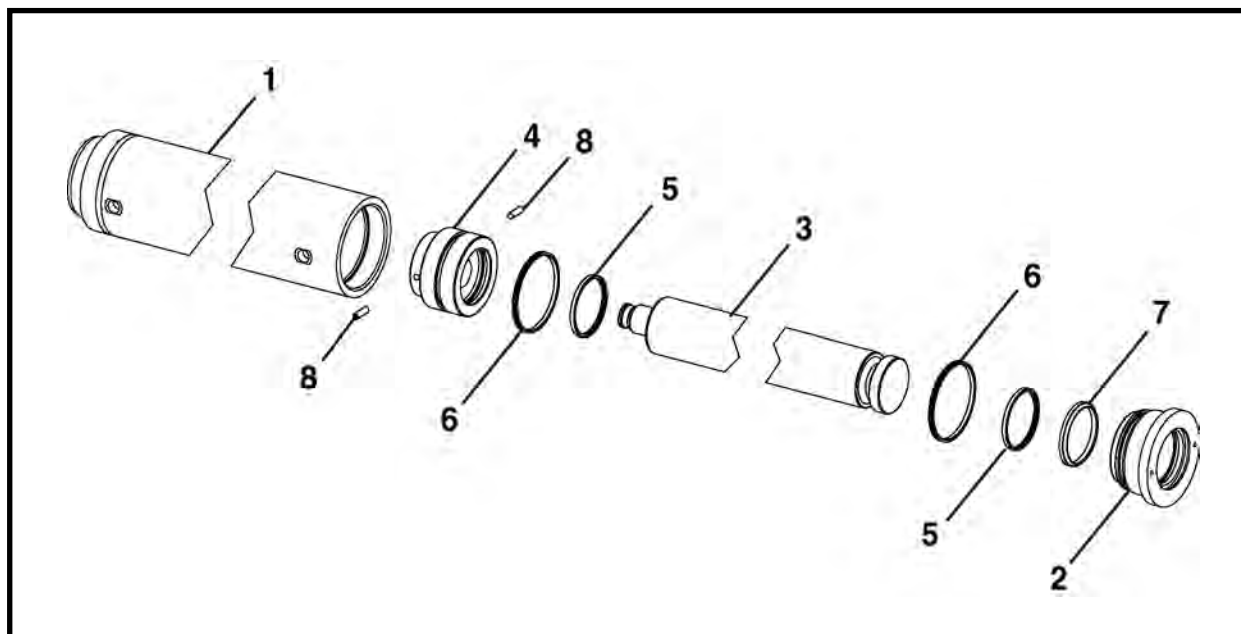
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0307-151	CYLINDER ASSEMBLY

CYLINDER ASSEMBLY, P0307-202
339A LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0307-202	CYLINDER ASSEMBLY

CYLINDER ASSEMBLY, FRAME EXTENSION, A40115A
SINGLE STAGE FRAME (SN FA40027F-73 & Before)

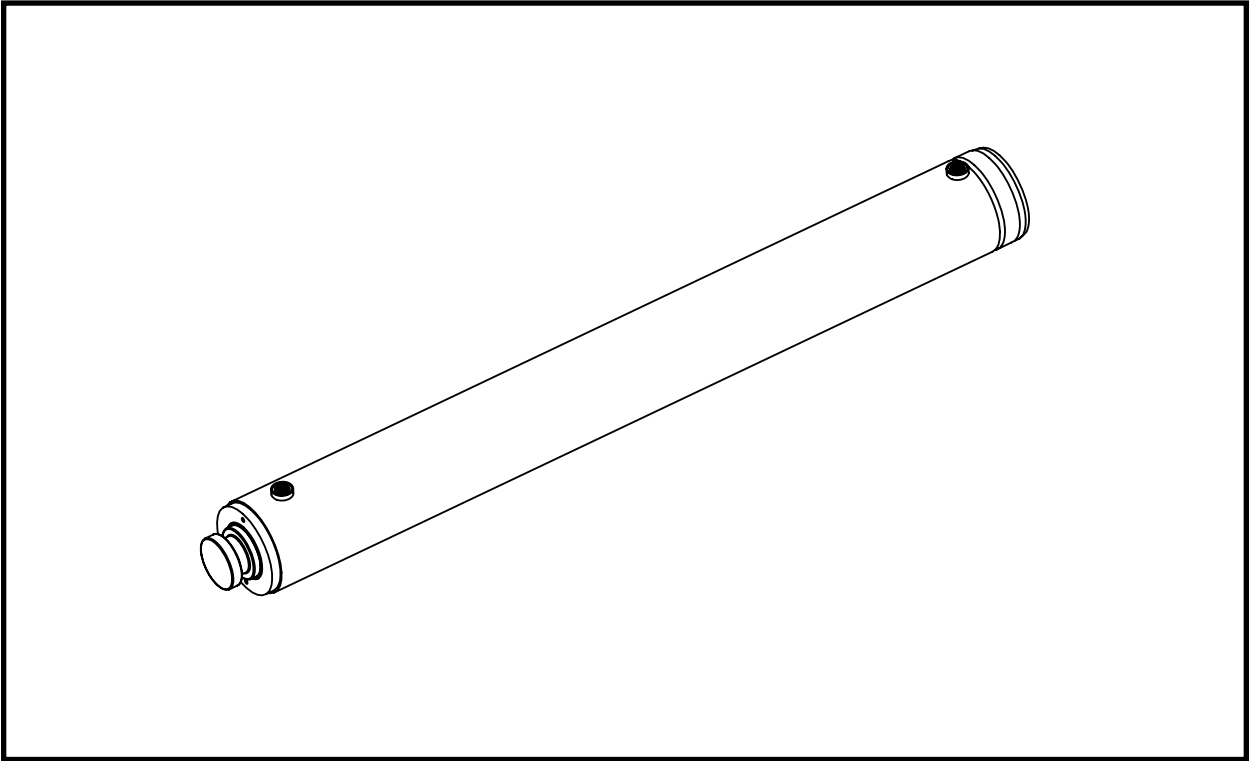


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40115A	CYLINDER ASSEMBLY, Frame Extension
1	1	A40116A	BARREL WELDMENT
2	1	A40452P	GLAND
3	1	A40453P	SHAFT
4	1	A40454P	PISTON
5	2	P0086-028	ROD T SEAL
6	2	P0086-029	PISTON T SEAL
5	1	P0087-011	WIPER, Rod
8	2	P0033-06-020	SCREW, Set

Note: This complete cylinder is no longer available and is replaced by Cylinder Assembly, P0307-230.

- Cylinder Assembly, A40115A is identified with gland end smaller than cylinder barrel.
- Cylinder Assembly, P0307-230 is identified with gland end flush with cylinder barrel. In addition, this cylinder is stamped with A01-1994 & cylinder serial number on the base end.

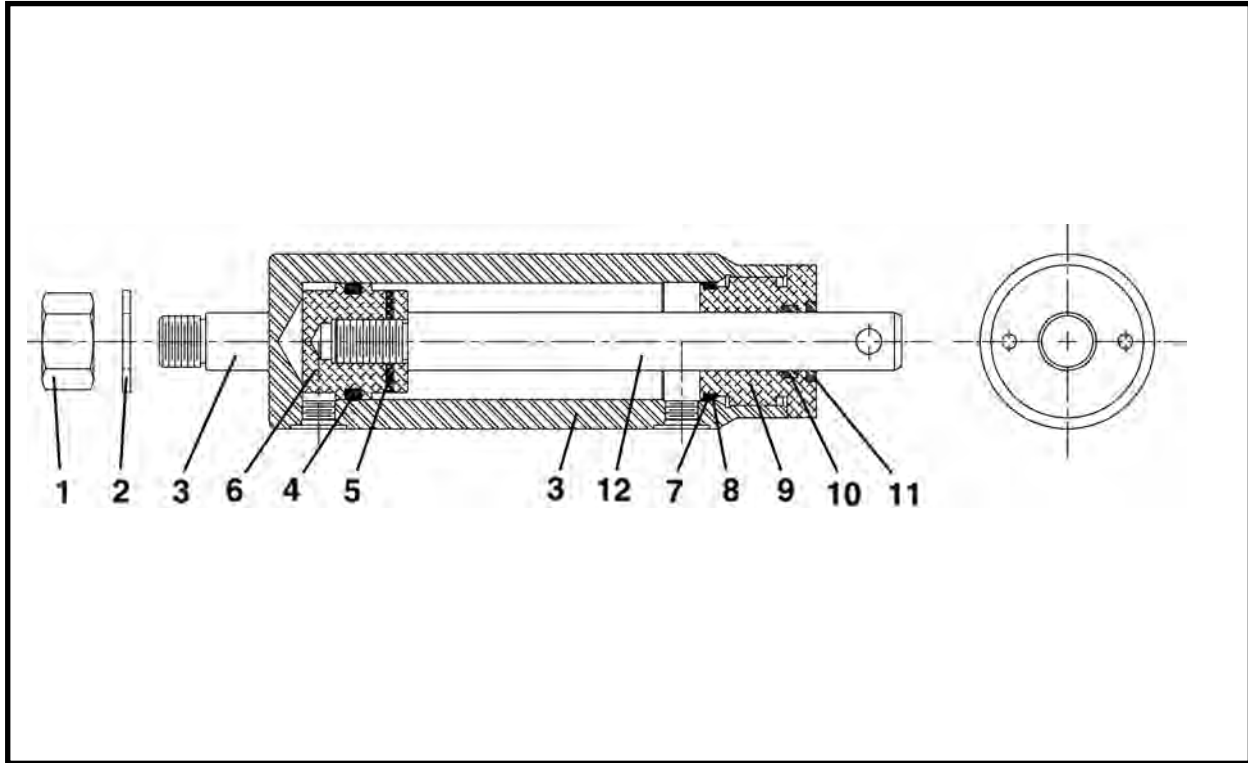
CYLINDER ASSEMBLY, FRAME EXTENSION, P0307-230
SINGLE STAGE FRAME (SN FA40027F-74 & After)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0307-230	CYLINDER ASSEMBLY, Frame Extension
1	1	P0307-230A	KIT, Seal

Note: Cylinder base end is stamped with A01-1994 & cylinder serial number.

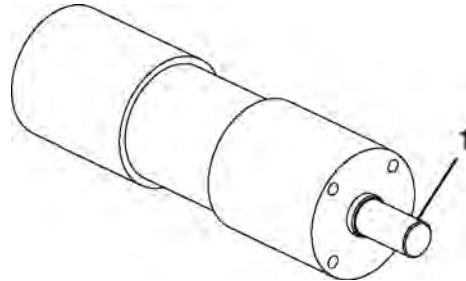
CYLINDER ASSEMBLY, 014603A00
HYDRAULIC MAKE UP TOOL



ITEM	QTY	PART NO.	DESCRIPTION
0	1	014603A00	ASSEMBLY, Hydraulic Dirt Wing Cylinder
1	1	P0004-14-000	NUT, 7/8 UNF
2	1	P0040-014	WASHER, 7/8
3	1	014605P00	BARREL, Cylinder
4*	1	P0085-C2	SEAL
5	1	P0049-042	PIN, Roll
6	1	010864P00	PISTON
7*	1	P0085-224	ORING
8*	1	P0084-224	RING, Back Up
9	1	001245P00	GLAND
10*	1	P0086-001	POLYSEAL
11*	1	P0080-001	WIPER
12	1	014604P00	SHAFT
13	1	010748A00	KIT, Seal

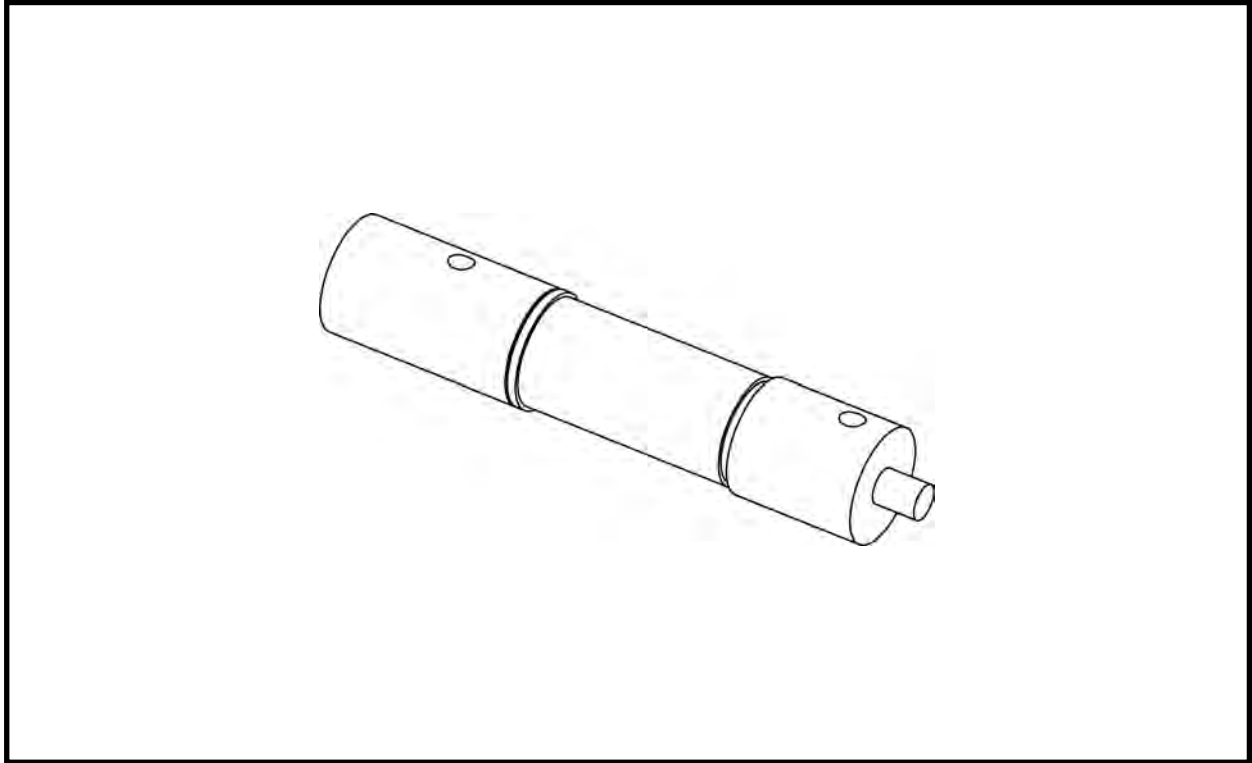
* Items included in item 13, 010748A00 Seal Kit.

CYLINDER ASSEMBLY, P0307-146
RECEPTION SHAFT BREAKOUT TOOL



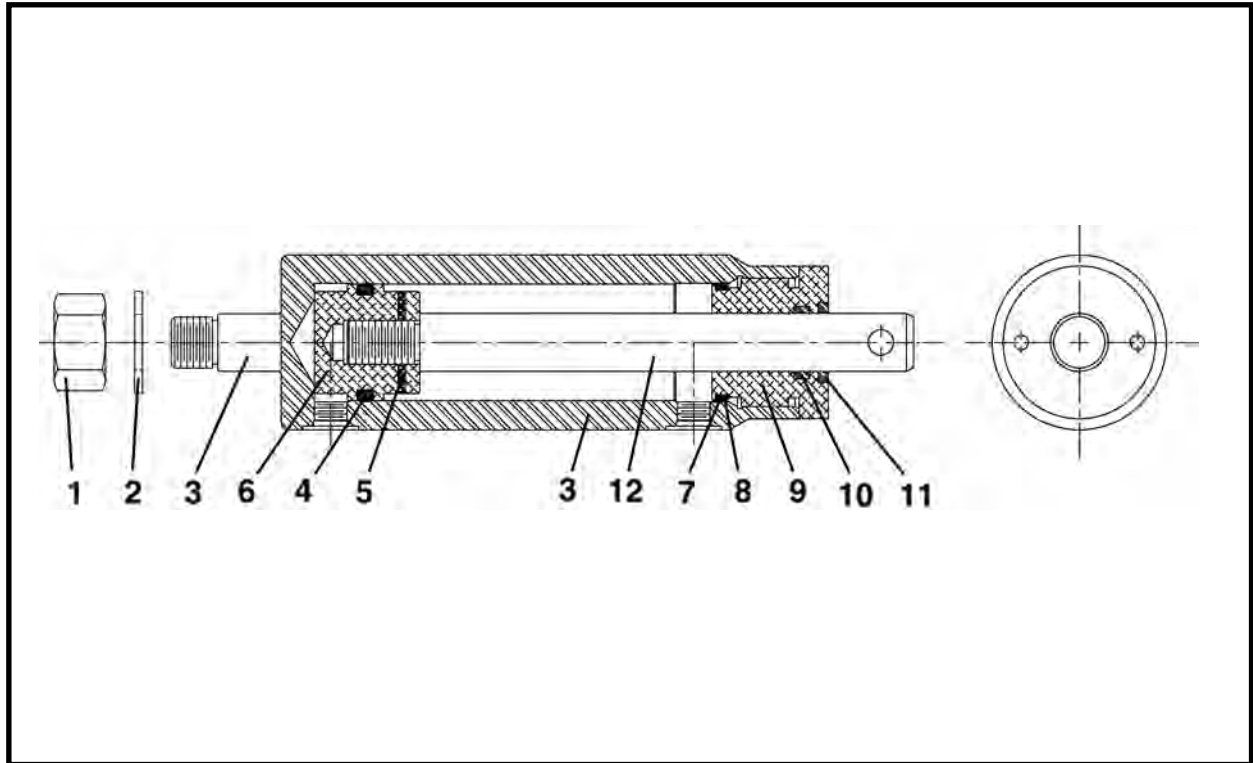
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0307-146	CYLINDER ASSEMBLY
1	1	P0307-146A	ROD
2	1	P0307-136E	KIT, Seal (not shown)

CYLINDER ASSEMBLY, P0307-204
PCH 22.5 DIRT WING



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0307-204	CYLINDER ASSEMBLY
1	1	P0307-204A	KIT, Seal

CYLINDER ASSEMBLY, 014603A00
PIPE RESTRAINT CLAMP ASSEMBLY



ITEM	QTY	PART NO.	DESCRIPTION
0	1	014603A00	ASSEMBLY, Hydraulic Dirt Wing Cylinder
1	1	P0004-14-000	NUT, 7/8 UNF
2	1	P0040-014	WASHER, 7/8
3	1	014605P00	BARREL, Cylinder
4*	1	P0085-C2	SEAL
5	1	P0049-042	PIN, Roll
6	1	010864P00	PISTON
7*	1	P0085-224	ORING
8*	1	P0084-224	RING, Back Up
9	1	001245P00	GLAND
10*	1	P0086-001	POLYSEAL
11*	1	P0080-001	WIPER
12	1	014604P00	SHAFT
13	1	010748A00	KIT, Seal

* Items included in item 13, 010748A00 Seal Kit.

NOTES



Miscellaneous/Tooling

Steering Head Assembly, FA40245F	6
45 Degree Steering Head, A40247A	7
30 Degree Steering Head, A40248A	8
Bullet Steering Head, A40249A	9
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 TriHawk® Adapter, FA48009	11
 Pilot Tubes	
Pilot Tube Holder, FA40255F	13
Pilot Tube 30 In., A40237A	14
Dual Wall Pilot Tube, A42356A	15
Pilot Tube Lift Holders	16
Pilot Tube Support Bar, A40118P	17
Pilot Tube Scraper, FA40482F	18
Pilot Tube Breakout Tool - Reception Shaft, FA40230F	20
Breakout Tool Assembly, A40491A	21
Pilot Tube Adapter, FA41403F	22
Breakout Tool - Launch Shaft Assembly, FA42240F	23
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Guide Rod, 3', 3" ID Hex Connection, FA41234F	33
Pilot Guide Swivel Assembly, 3" ID Hex Connection, FA41275F	34
GBM Swivel Assembly, 3" ID Hex Connection, FA46480F	35
Pilot Tube, 10', 3" ID Hex Connection, FA41402F	36
Weld On Auger Adapter, 3" ID Hex Connection, A42352P	37

(continued on next page)

Miscellaneous/Tooling (continued)

Cutter Head Assembly

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Full Face Cutter Head Assembly, 11" OD, FA43763F	39
Full Face Cutter Head Assembly, 16" OD, FA44504F	40
Casing Thrust Adapter	41
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Swivels

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Auger Swivel Cutter Assembly, 11" OD, A44664A	44
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Integral Bearing Swivel Cutter Head, 16" OD, FA44723F	46
Auger Swivel Cutter Assembly, 16" OD, A44726A	47
Hard Ground Cutter Bit, A46126A	48
Pilot Guide Swivel Assembly, 3" ID Hex Connection, FA41275F	49
Weld On Auger Adapter, A42352P	50
GBM Swivel Assembly, 3" ID Hex Connection, FA46480F	51

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Auger Assembly (11" - 16" OD)	53
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Auger Hex Wrench	56
Basket Assembly, FA43343F	57
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Controlled Flow Auger Assembly, 11" OD, FA40378F	59
Controlled Flow Auger Assembly, 16" OD, FA45188F	60
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Powered Reaming Head

Powered Reaming Head Assembly (SN FA45200F-2 & 3), FA45200F	64
Powered Reaming Head Assembly (SN FA45200F-4 & 5), FA45200F	65
PRH 11" - 14" OD Front Section Assembly (SN FA45200F-1 thru 4), A45201A	66
PRH 11" - 14" OD Front Section Assembly (SN FA45200F-5), A45201A	67
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PRH Rear Section Assembly (SN FA45200F-4 & 5), A45202A	69
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(continued on next page)

Miscellaneous/Tooling (continued)

Powered Reaming Head (continued)

Increase Kits

11" - 16" OD Increase Kit (SN FA45200F-1), A45265A	72
11" - 16" OD Increase Kit (SN FA45200F-2 & 3), A45265A	73
11" - 16" OD Increase Kit (SN FA45200F-4 & 5), A45265A	74
11" - 20" OD Increase Kit (SN FA45200F-1), A45266A	75
11" - 20" OD Increase Kit (SN FA45200F-2 & 3), A45266A	76
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Increase Kits

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11" - 21" OD Increase Kit, A45691A	85
Pipe Adapter Set 300mm ID RCP, A45724A	86
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Powered Reaming Head Series II

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PRH Series II Skin Assembly, PRH 21.63-26-28.5 (SN FA45200F-6 & After)	91
PRH Series II (14-24 OD) Drive Assy (SN FA45200F-6 & After), FA46720F	92
Bearing Assembly, A46721A	93
PRH Series II Skin Assembly, FA47931F	94

PRH Series II 20,000 ft-lb (24 - 30.5 OD)

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Gearbox Assembly, A48028A	97
PRH Series II 20k Skin 16 to 23.6 OD Assembly, FA48031F	98
PRH Series II 20k Skin 16 to 30.5 OD Assembly, FA48047F	99

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Pipe Adapter Set 300mm ID RCP, A45724A	101
Pipe Adapter Set 375mm ID RCP, A45725A	102
Pipe Adapter Set, Superram - VCP, FA47951F	103

(continued on next page)

Miscellaneous/Tooling (continued)

Powered Cutter Head

Powered Cutter Head Assembly	104
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PCH 30.5, FA47952F	105
PCH 20 Front Section Assembly (SN FA43100F-1 Thru 3), A43160A	106
PCH 20 Front Section Assembly (SN FA43100F-4 & 5), A43160A	108
PCH 20 Front Section Assembly (SN FA43100F-6 & After), A43160A	110
PCH 22.5 Front Section Assembly (SN FA42850F-1 Thru 8), A42900A	112
PCH 22.5 Front Section Assembly (SN FA42850F-9 Thru 11), A42900A	114
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(continued on next page)

Miscellaneous/Tooling (continued)

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Drilling Seals

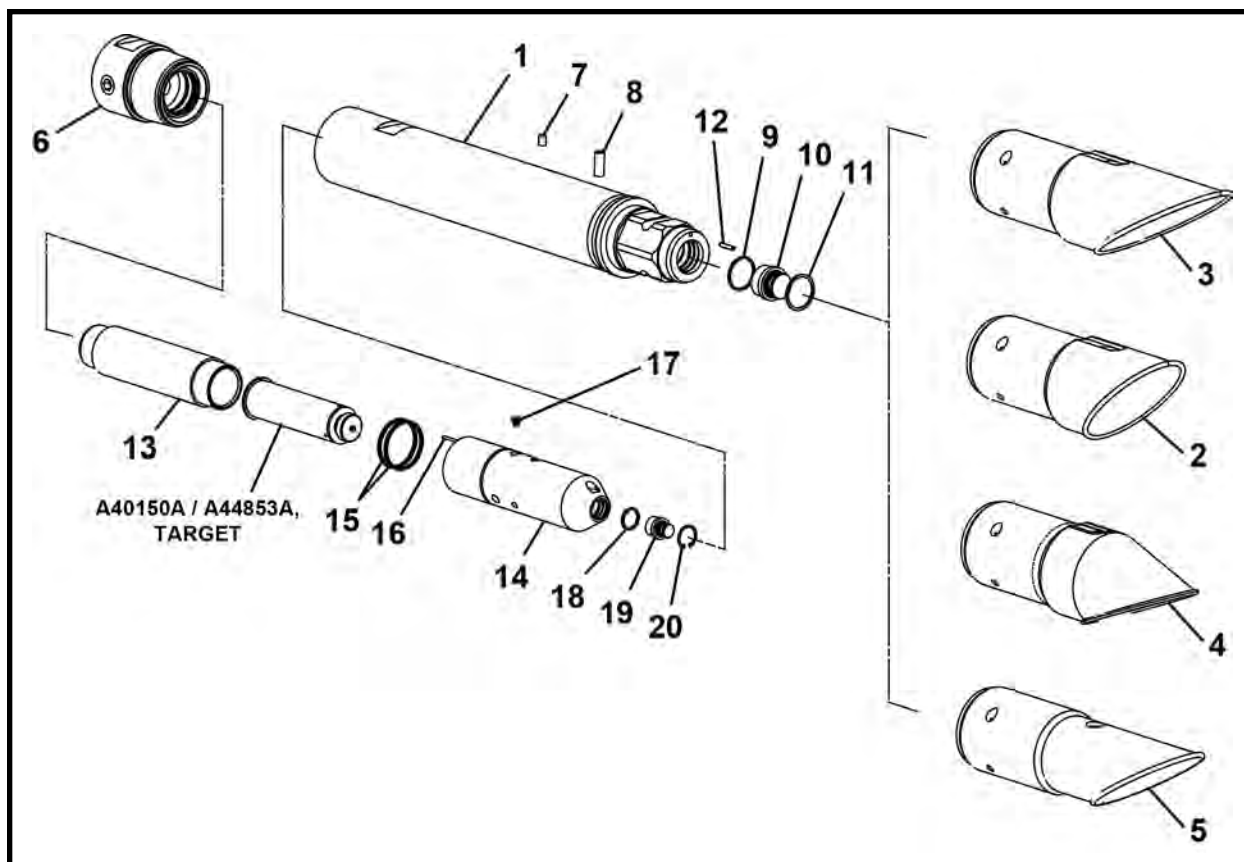
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STEERING HEAD ASSEMBLY, FA40245F

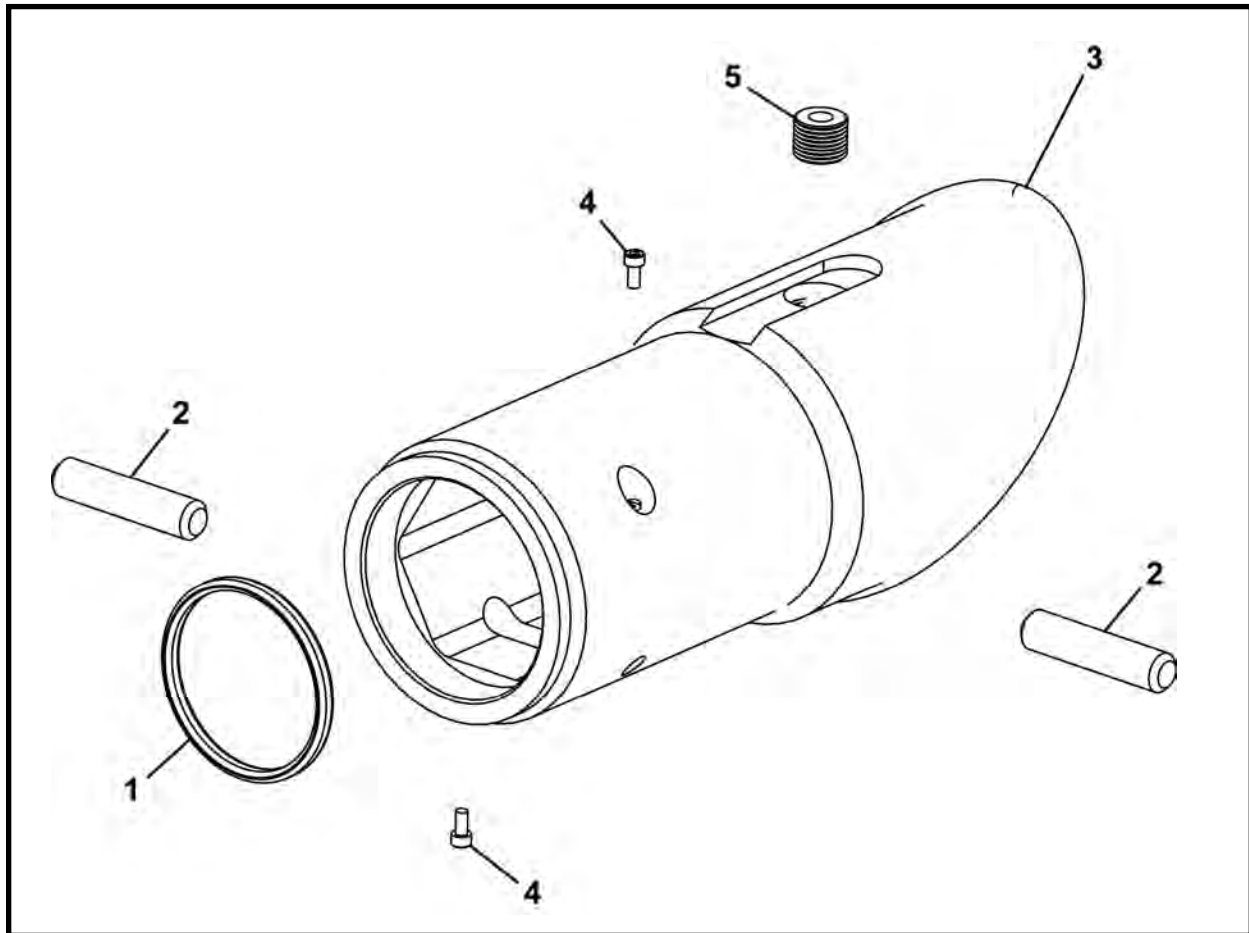
STEERING HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40245F	STEERING HEAD ASSEMBLY
1	1	A40246A	ADAPTER, Steering Head
2	1	A40247A	STEERING HEAD, 45 Degree (5" Diameter)
3	1	A40248A	STEERING HEAD, 30 Degree (5" Diameter)
4	1	A40249A	STEERING HEAD, Bullet
5	1	A42706A	STEERING HEAD, 30 Degree (4" Diameter)
6	1	A40250A	CONNECTION, Air & Fluid (Includes item 6a)
6a*	2	P0085-228	ORING
7	3	P0033-06-008	SCREW, Socket Head Cap 3/8 UNC x 0.5
8	1	P0033-08-020	SCREW, Socket Set 1/2-13 UNC x 1.25
9	1	P0085-130	ORING
10	1	P0302-404	VALVE, Check
11	1	P0076-055	RING, Spiral Snap
12	1	P0049-079	PIN, Roll 3/16 x 1
13	1	A40594P	TUBE, Inner
14	1	A40595A	HOLDER, Target
15	2	P0085-229	ORING
16	1	P0049-044	PIN, Roll 1/8 x 1.25
17	3	P0300-224	PLUG
18	1	P0085-120	ORING
19	1	P0302-405	VALVE, Check
20	1	P0076-056	RING, Internal Snap

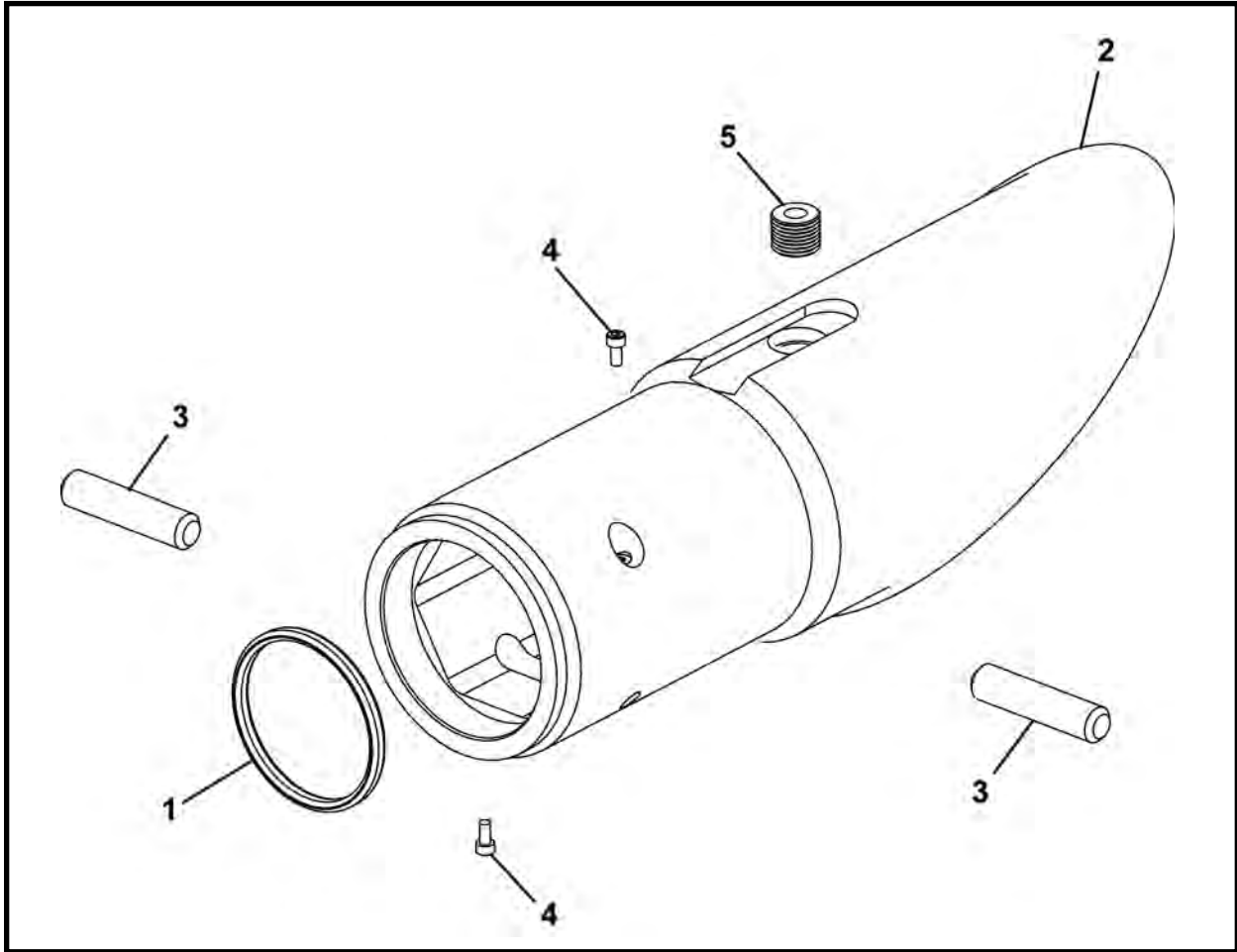
* Not Shown

STEERING HEAD, 45 DEGREE, 5" DIAMETER, A40247A
STEERING HEAD



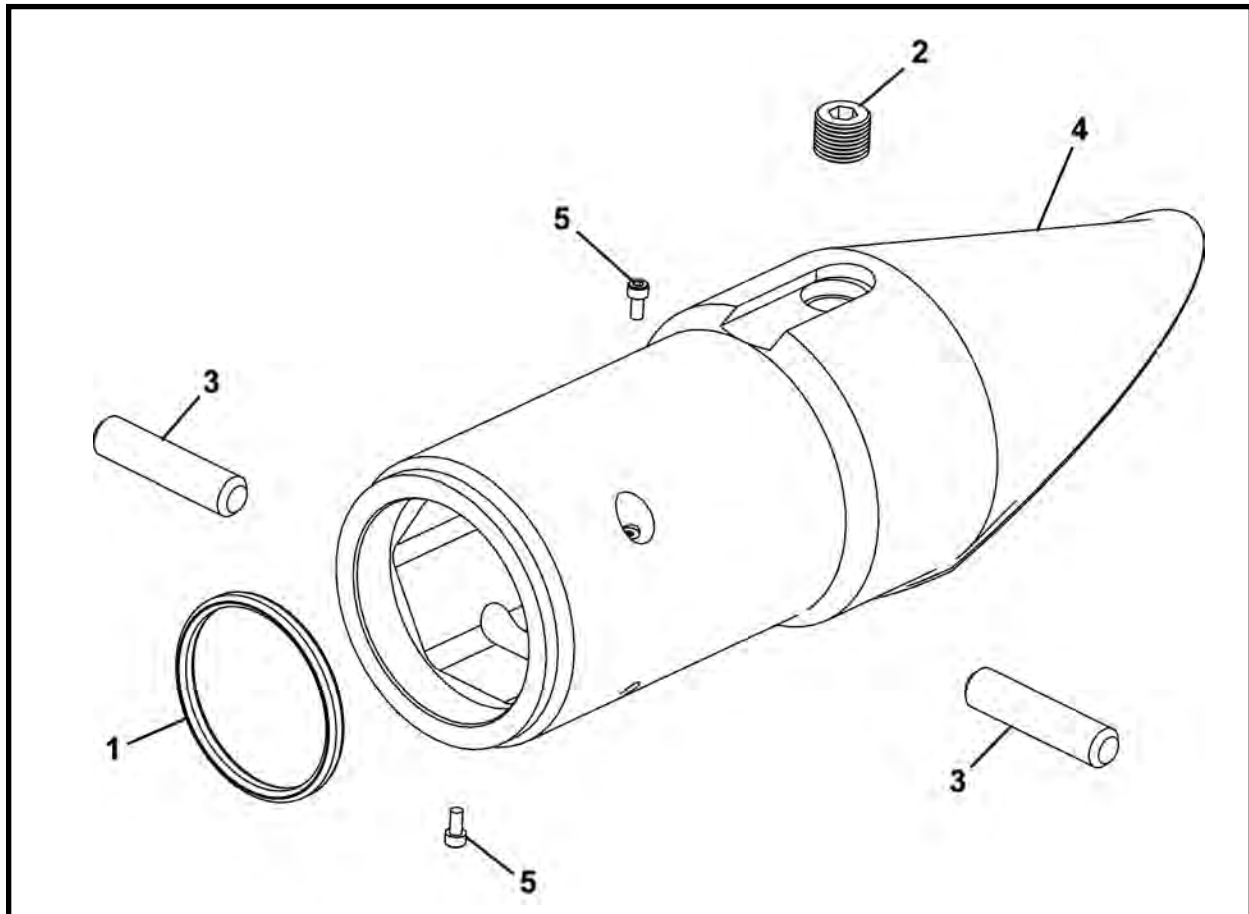
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40247A	STEERING HEAD, 45 Degree, 5" Diameter
1	1	P0085-336	ORING
2	2	A40582P	PIN, Connection
3	1	A40578P	45 DEGREE LEAD 5.0
4	2	P0031-1024-001.5	SCREW, Socket Head Cap 10-24 UNC x .375
5	1	A40297P	PORT, Lubrication

STEERING HEAD, 30 DEGREE, 5" DIAMETER, A40248A
STEERING HEAD



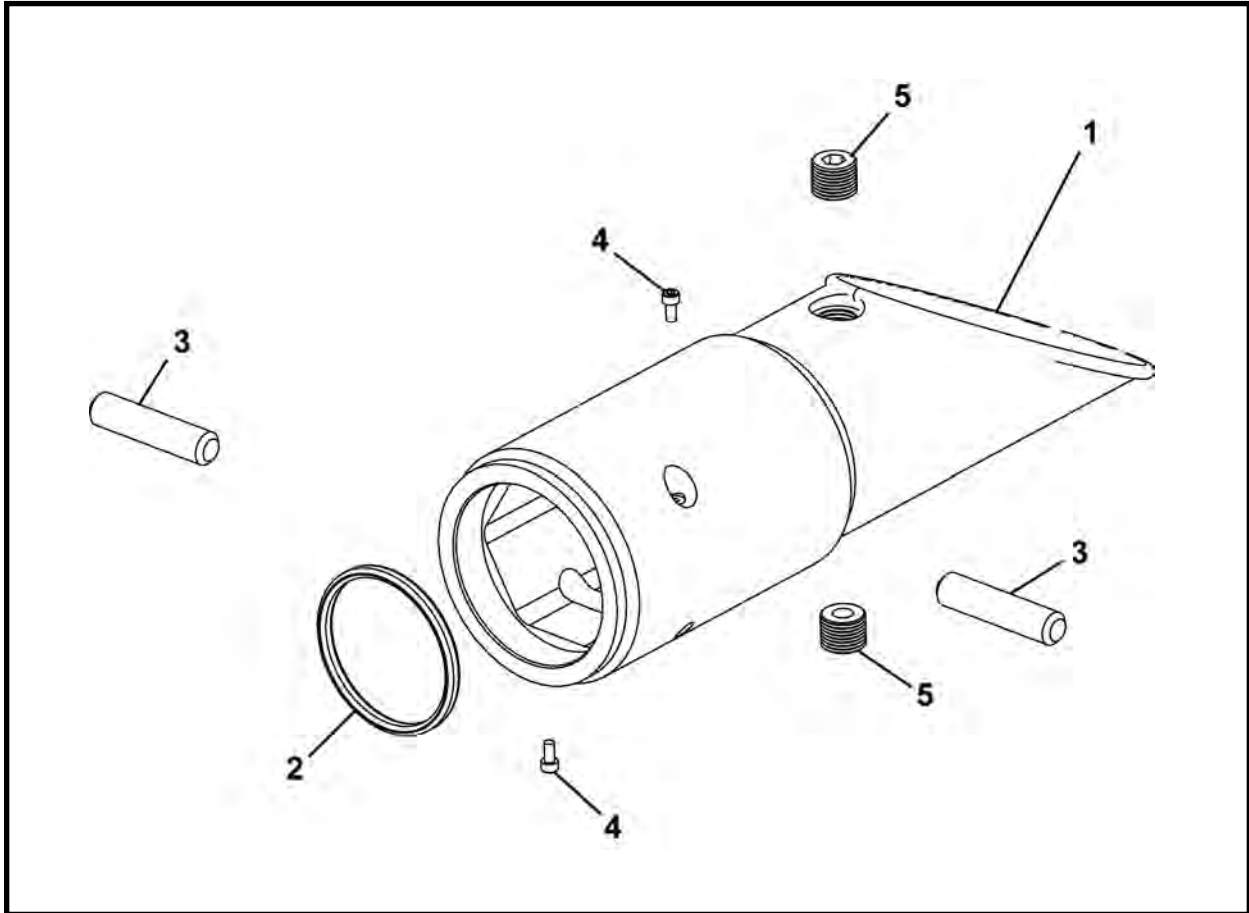
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40248A	STEERING HEAD, 30 Degree, 5" Diameter
1	1	P0085-336	ORING
2	1	A40579P	30 DEGREE LEAD 5.0
3	2	A40582P	PIN, Connection
4	2	P0031-1024-001.5	SCREW, Socket Head Cap 10-24 UNC x .375
5	1	A40297P	PORT, Lubrication

STEERING HEAD, BULLET, A40249A
STEERING HEAD



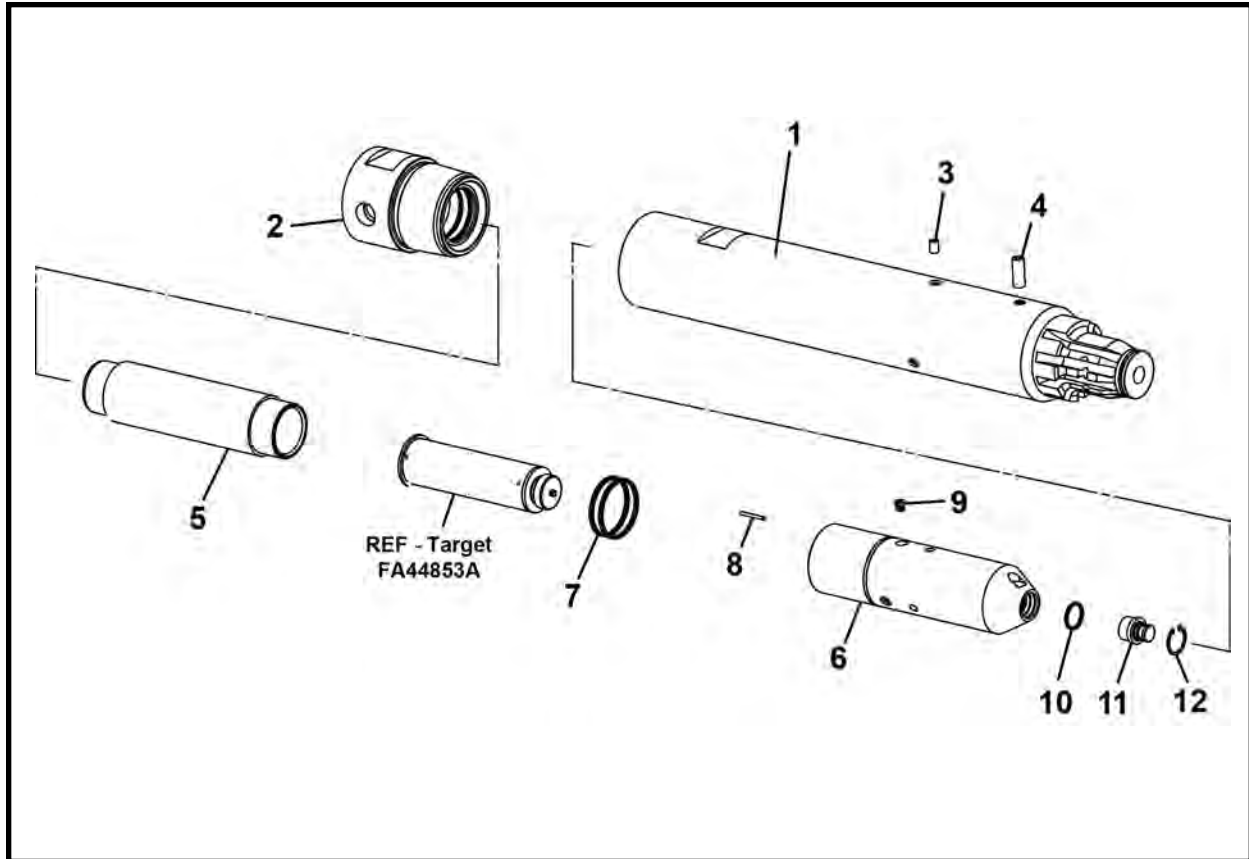
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40249A	STEERING HEAD, Bullet
1	1	P0085-336	ORING
2	1	A40297P	PORT, Lubrication
3	2	A40582P	PIN, Connection
4	1	A40580P	BULLET LEAD
5	2	P0031-1024-001.5	SCREW, Socket Head Cap 10-24 UNC x .375

STEERING HEAD, 30 DEGREE, 4" DIAMETER, A42706A
STEERING HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42706A	STEERING HEAD, 30 Degree, 4" Diameter
1	1	A42707P	30 DEGREE LEAD 4.0
2	1	P0085-336	ORING
3	2	A40582P	PIN, Connection
4	2	P0031-1024-001.5	SCREW, Socket Head Cap 10-24 UNC x .375
5	1	A40297P	PORT, Lubrication

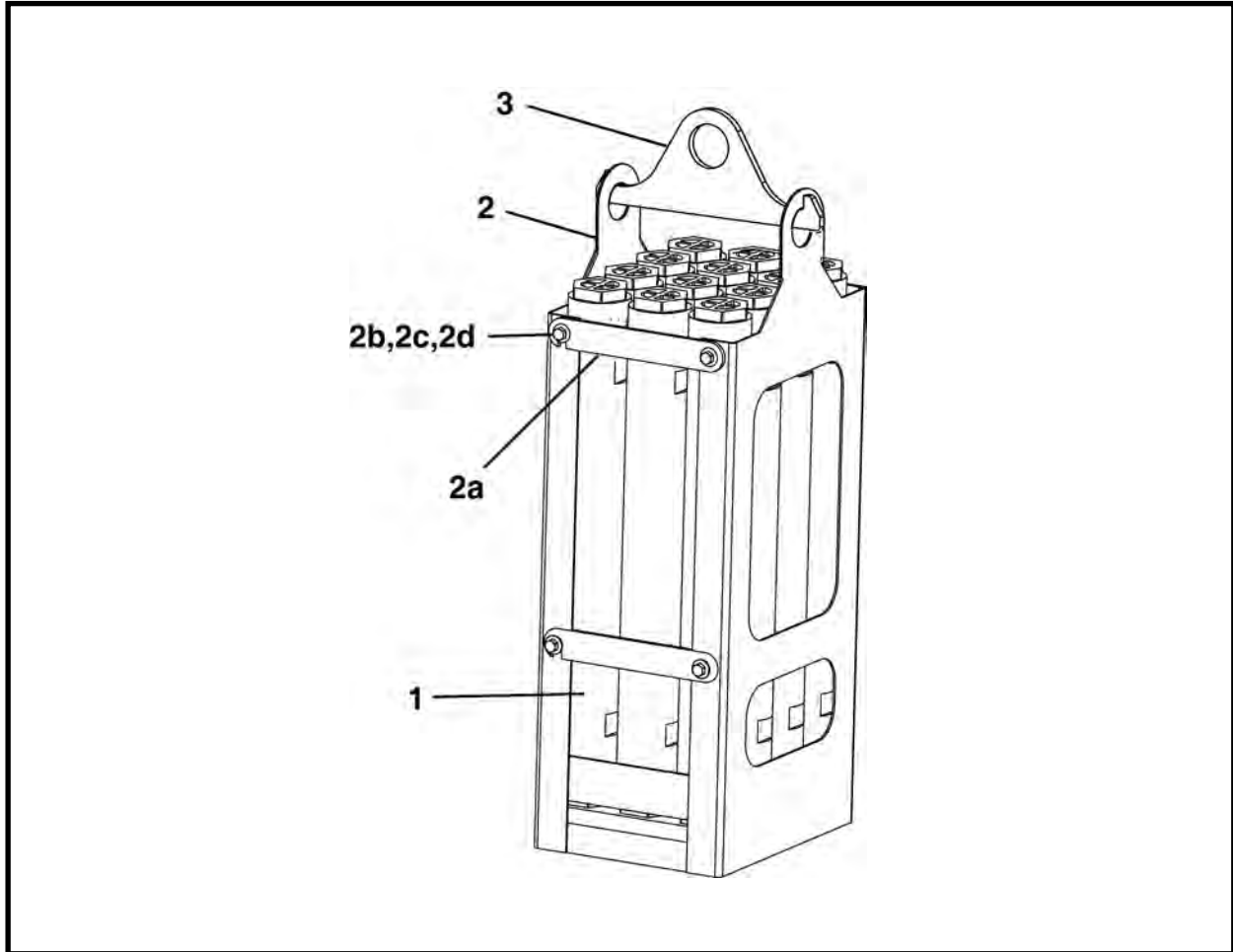
PILOT TUBE TO TRIHAWK® ADAPTER ASSEMBLY, FA48099F
TRI-HAWK STEERING HEAD ADAPTER



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA48099F	ASSEMBLY, Pilot Tube to TriHawk Adapter
1	1	A48098A	ADAPTER
2	1	A40250A	CONNECTION, Air & Fluid (Includes item 2a)
2a	2	P0085-228	ORING
3	3	P0033-06-008	SCREW, Socket Head Set 3/8 UNC x .5 SET
4	1	P0033-08-020	SCREW, Socket Head Set 1/2 UNC x 1.25
5	1	A40594P	TUBE, Inner
6	1	A40595A	HOLDER, Target
7	2	P0085-229	ORING
8	1	P0049-044	PIN, Roll 1/8 x 1.25
9	3	P0300-224	PLUG, 02MB-HHP
10	1	P0085-120	ORING
11	1	P0302-405	VALVE, Check
12	1	P0076-056	RING, Internal Snap

NOTES

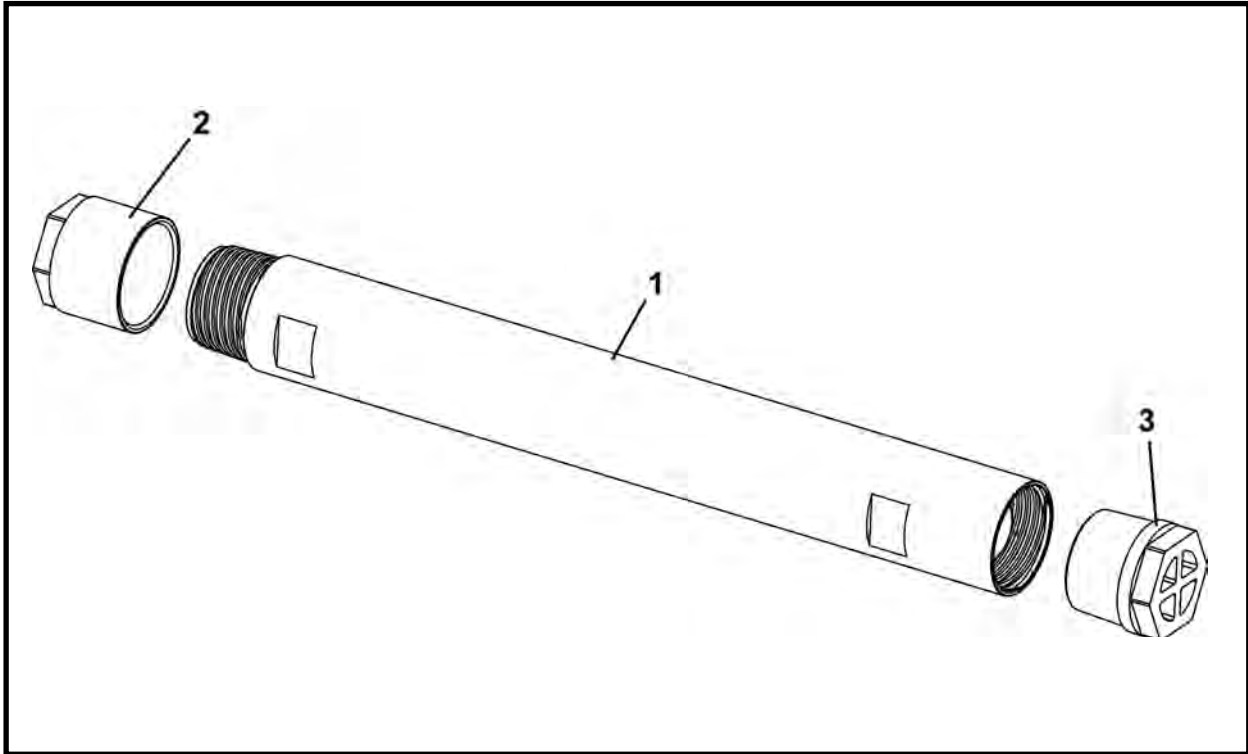
PILOT TUBE HOLDER, FA40255F
PILOT TUBE



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40255F	PILOT TUBE RACK (Includes items 1 & 2)
1	12	A40237A	TUBE, Pilot 30 in.
2	1	A40220A	HOLDER, Pilot Tube (Includes items 2a - 2d)
2a	2	A40538P	BAR, Front Latch
2b	4	P0003-08-000	NUT, 1/2
2c	4	P0001-08-005	BOLT, 1/2 UNC x 1.25
2d	4	P0040-008	WASHER, Hardened Flat 1/2
3*	1	A40540P	BAR, Lifting

* Not part of Assembly FA40255F

PILOT TUBE 30 In., A40237A
PILOT TUBE - 30 Inch

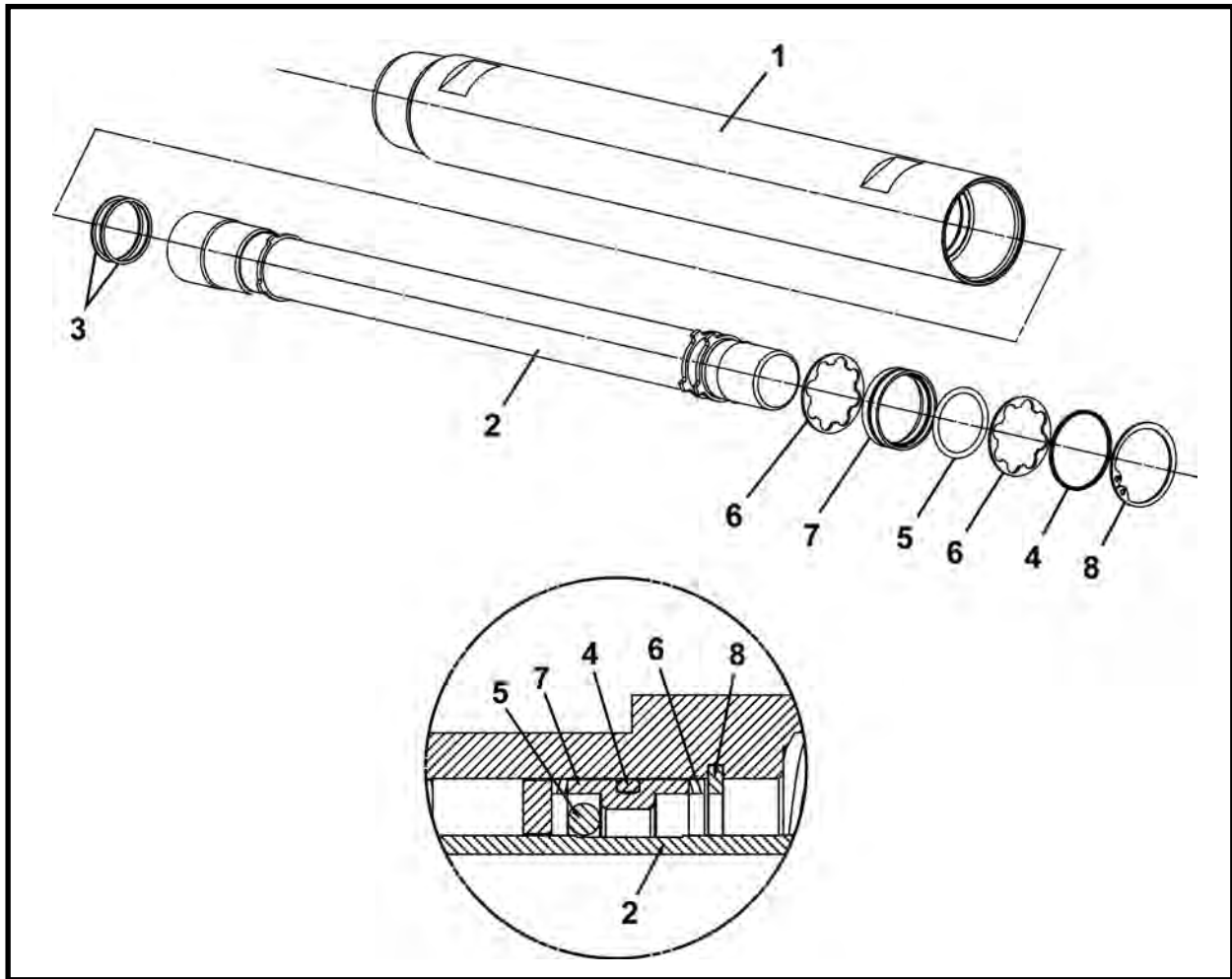


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40237A	PILOT TUBE 30 In.
1	1	A42356A	PILOT TUBE, Dual Wall
2	1	A42362P	PROTECTOR, Pin Thread
3	1	A42361P	PROTECTOR, Box Thread

Note:

1. Use Copper Guard 4® to lubricate tool joint threads.
2. Clean and lubricate tool joint and inner tube after use to prevent corrosion.
3. To clean pilot inner tube, use flue brush, P0094-016 threaded to a 1/4" MNPT x 3' rod.

DUAL WALL PILOT TUBE, A42356A
PILOT TUBE - 30 Inch



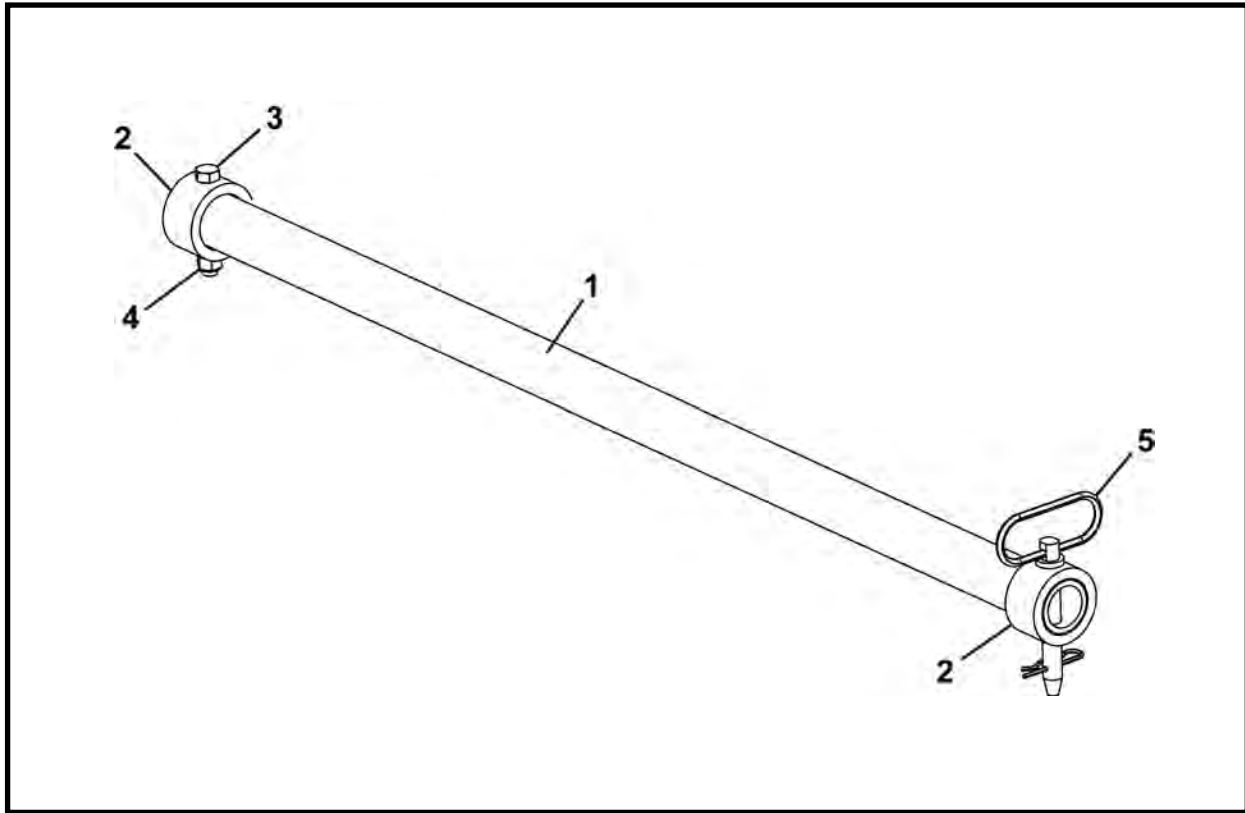
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42356A	PILOT TUBE, Dual Wall
1	1	A40573P	TUBE, Outer
2	1	A42360A	TUBE, Inner
3	2	P0085-228	ORING
4	1	P0085-149	ORING
5	1	P0085-331	ORING
6	2	A42357P	WASHER, Drip Valve
7	1	A42363P	SPACER, Drip Valve
8	1	P0077-050	RING, Internal Snap

Note:

1. Use Copper Guard 4® to lubricate tool joint threads.
2. Clean and lubricate tool joint and inner tube after use to prevent corrosion.
3. To clean pilot inner tube, use flue brush, P0094-016 threaded to a 1/4" MNPT x 3' rod.
4. Item 4, Oring fits into external groove of item 7, Drip Valve Spacer as shown in inset.

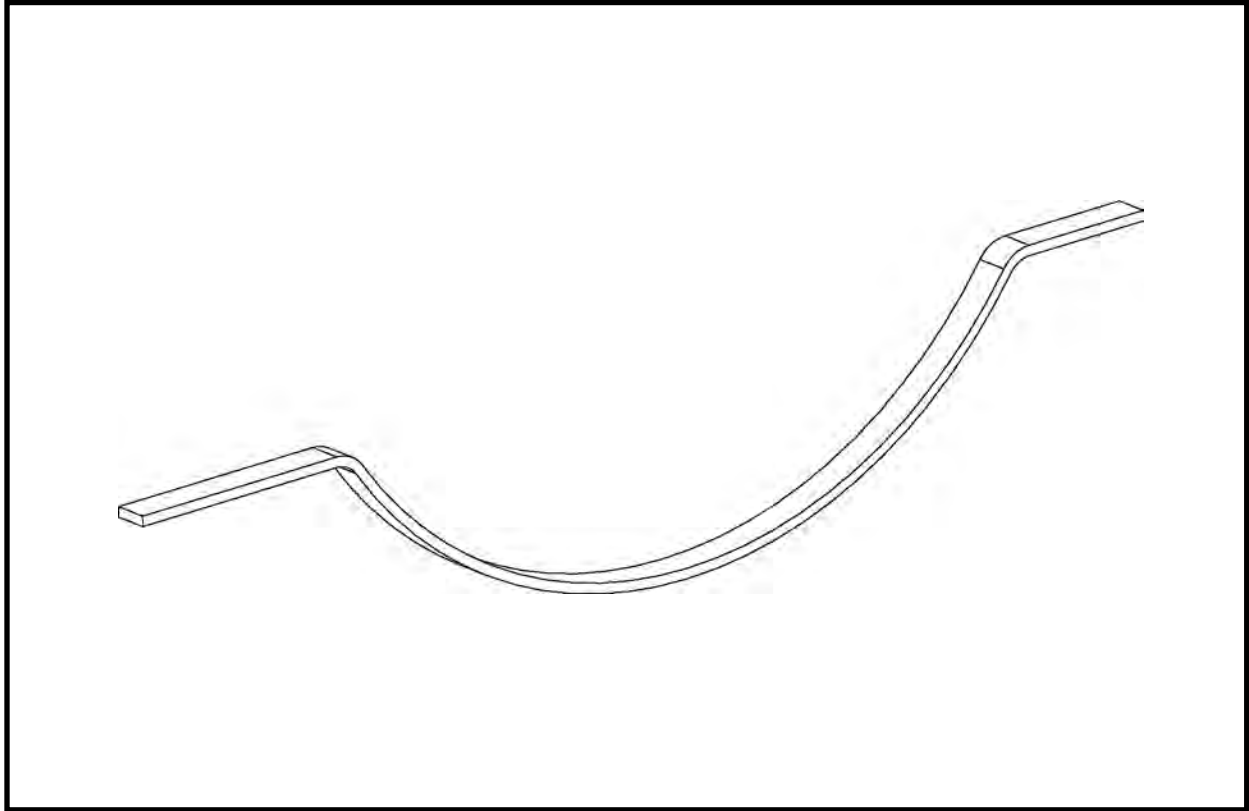
PILOT TUBE LIFT HOLDERS

PILOT TUBE - 30 Inch



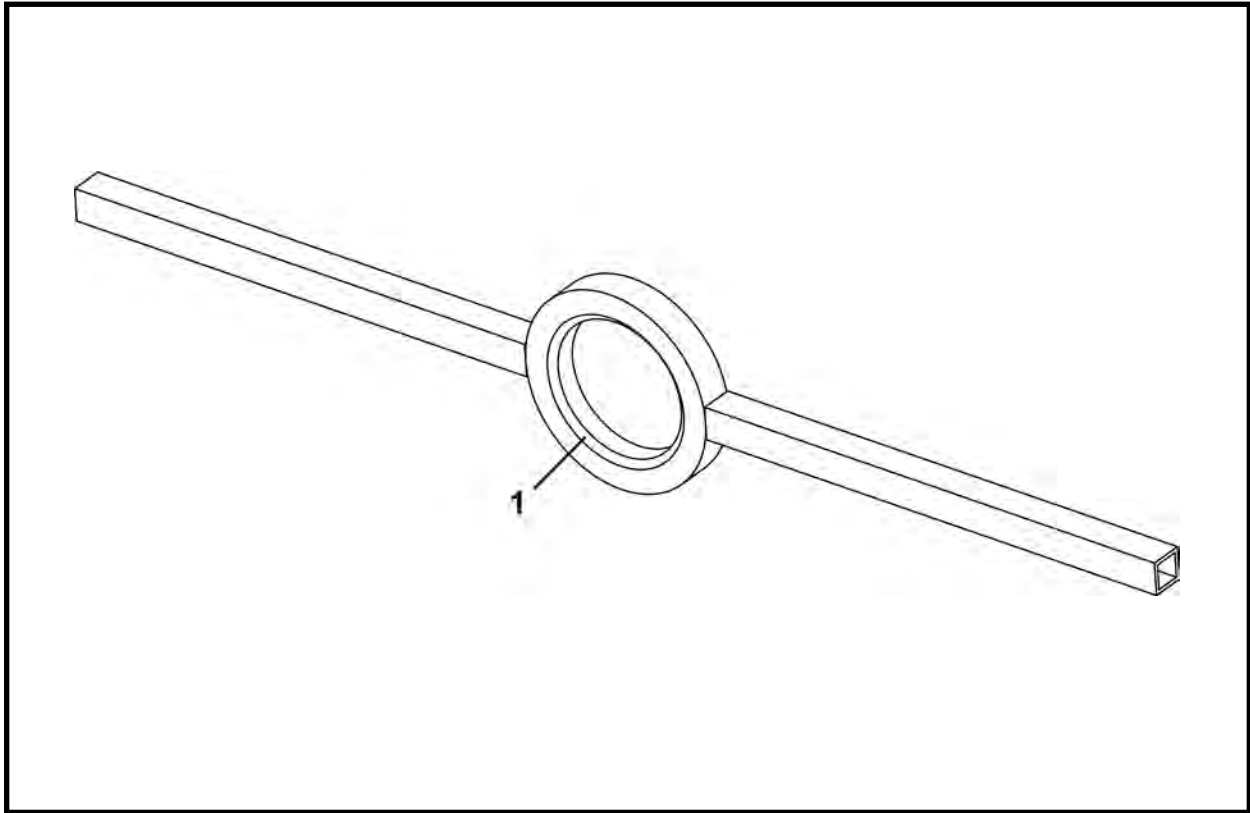
ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	A42250A	PILOT TUBE LIFT HOLDERS, 2
0.2	1	A42251A	PILOT TUBE LIFT HOLDERS, 3
1.1	1	A42252P	TUBE, Lift 2 Holders
1.2	1	A42254P	TUBE, Lift 3 Holders
2	2	A42253P	TUBE, Collar Lift
3	1	P0001-08-014	BOLT, 1/2-13 x 3.5
4	1	P0013-08-000	NUT, Lock 1/2
5	1	P0090-010	PIN, Hitch 5/8 x 3.75

PILOT TUBE SUPPORT BAR, A40118P
PILOT TUBE



ITEM	QTY	PART NO.	DESCRIPTION
0	2	A40118P	PILOT TUBE SUPPORT BAR

PILOT TUBE SCRAPER, FA40482F
PILOT TUBE

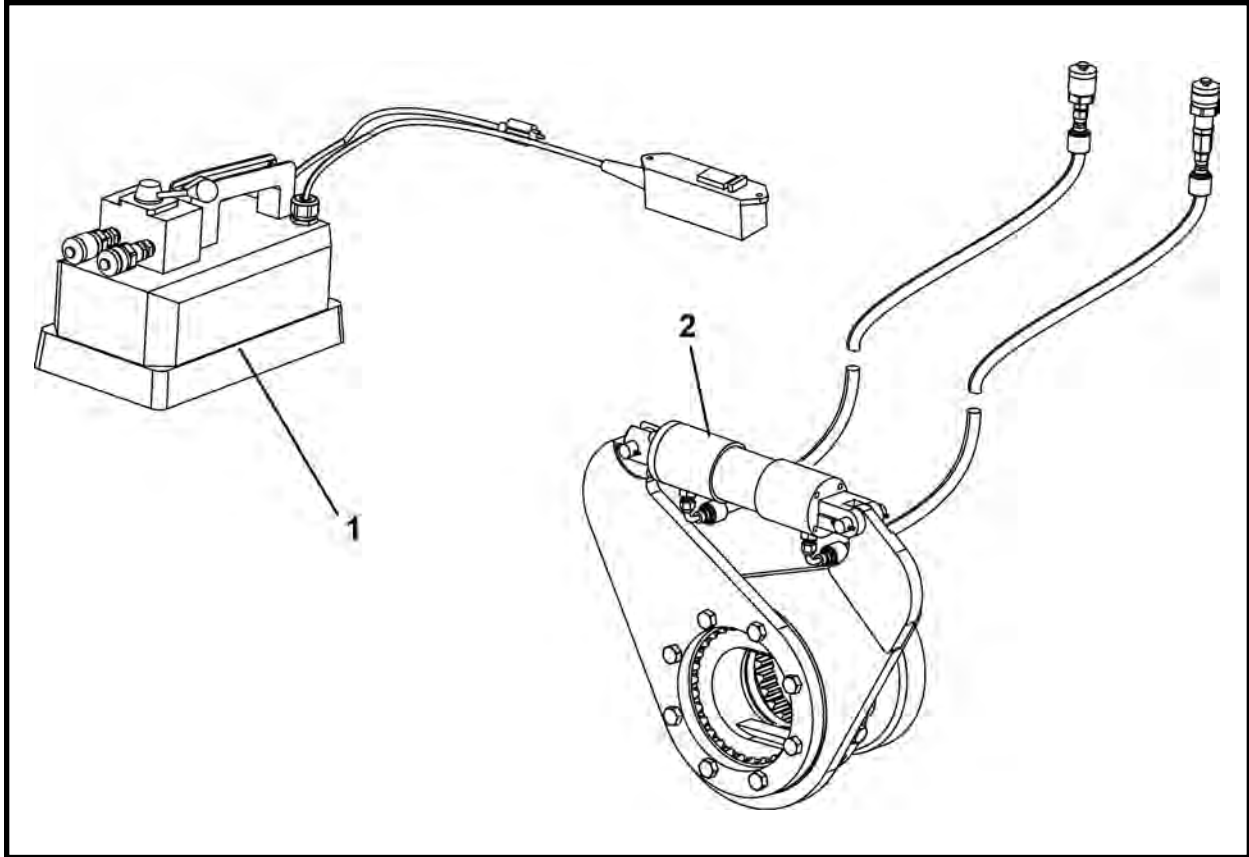


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40482F	PILOT TUBE SCRAPER
1	14.62 LI	P0085-S17	WIPER

LI - Linear Inch

NOTES

**PILOT TUBE BREAKOUT TOOL - RECEPTION SHAFT, FA40230F
BREAKOUT TOOL**



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA40230F	TOOL, Pilot Tube Breakout-120V, Reception Shaft
0.2	1	FA40221F	TOOL, Pilot Tube Breakout-230V, Reception Shaft
1.1*	1	A40257A	POWER PACK 120 V
1.2**	1	A45440A	POWER PACK 230 V
2***	1	A40491A	ASSEMBLY, Breakout Tool

* Refer to Power Pack 120V - Breakout Tool, A40257A in Section 6, Hydraulics for parts information.

* Refer to Power Pack 230V - Breakout Tool, A45440A in Section 6, Hydraulics for parts information.

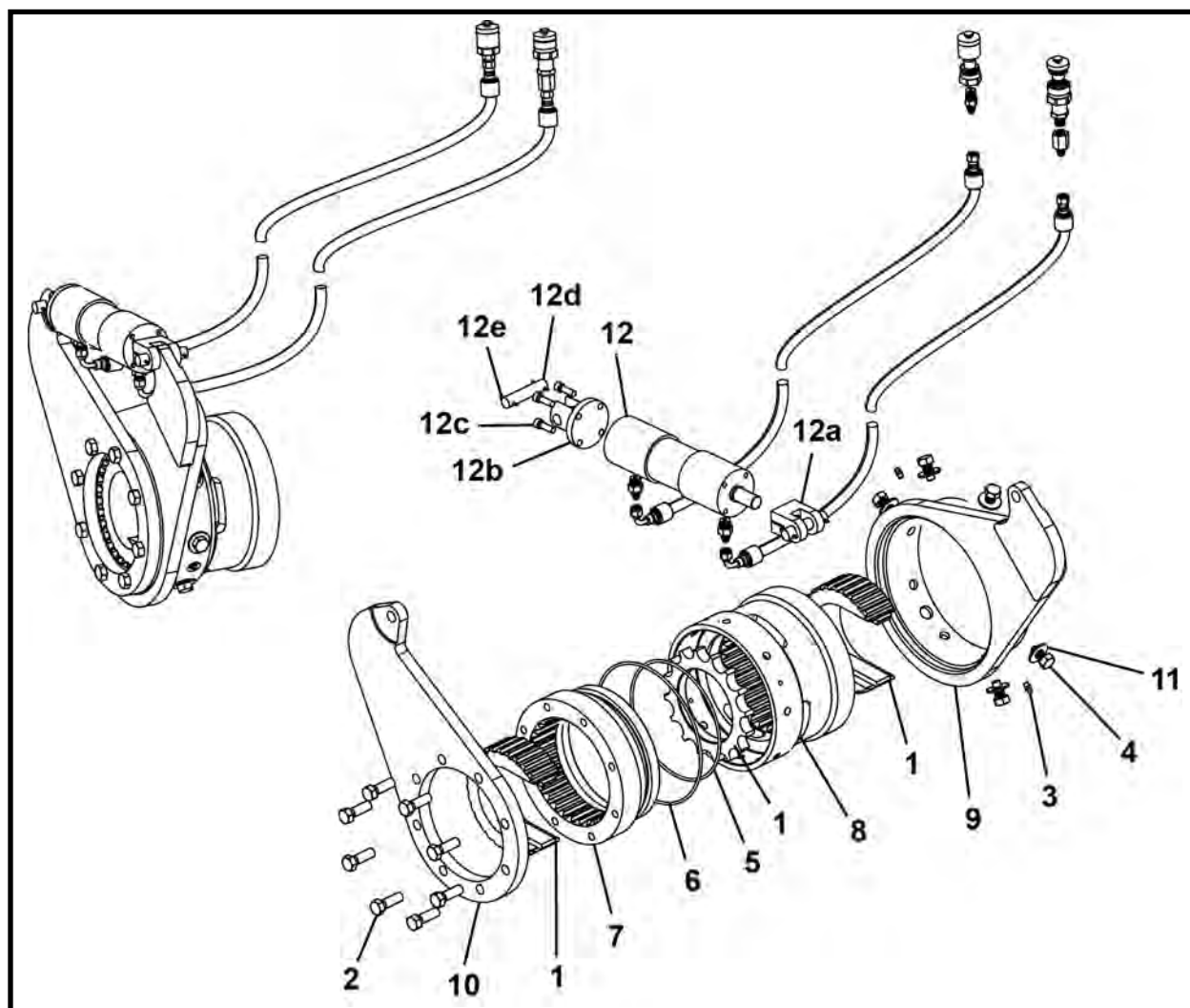
*** Refer to this section for parts information.

Note:

1) An optional 1 HP sealed power pack is available; A46443A.

BREAKOUT TOOL ASSEMBLY, A40491A

BREAKOUT TOOL



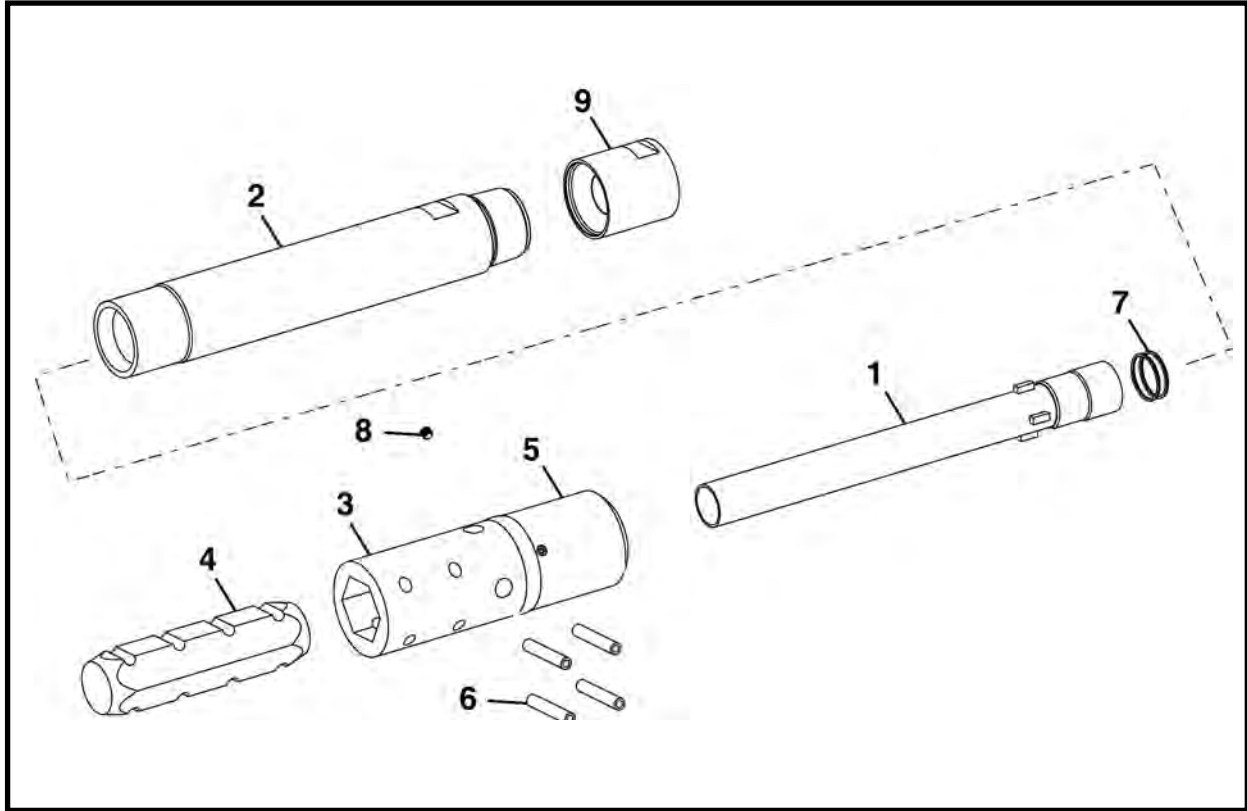
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A40491A	BREAKOUT TOOL ASSEMBLY
1	1	A40231A	INSERTS, Breakout Tool (Includes items 1a - 1b)
1a	2	A40590P	INSERT
1b	1	A40591P	SPACER
2	8	P0001-08-006	BOLT, 1/2 UNC x 1.5
3	4	P0063-001	FITTING, Grease
4	8	A40490P	BOLT, Retaining
5	1	P0085-261	ORING
6	1	P0085-266	ORING
7	1	A40586P	HUB, Male
8	1	A40585P	HUB, Female
9*	1	A40485A	WELDMENT, Cylinder Frame
10*	1	A40489P	PLATE, Cylinder Arm
11	8	P0040-008	WASHER, Hardened Flat 1/2
12**	1	A40233A	HYDRAULIC PLUMBING (Includes items 12 a - 12e)
12a	1	P0307-136B	KIT, Clevis
12b	1	A40589P	MOUNT, Pivot
12c	4	P0031A-05-004	SCREW, Socket Head Cap 5/16 UNF x 1
12d	1	P0307-136B1	ROD, Clevis
12e	2	P0048-025	PIN, Cotter 1/8 x 1

* On an earlier version of the Breakout Tool Assembly, the cylinder arm plates were offset. The offset arms are no longer available. When replacing offset arms with items 9 and 10, they must be replaced as a set.

** For parts information, refer to Hydraulic Plumbing - Breakout Tool, A40233A in Section 6, Hydraulics.

Note: Use anti-seize on all bolts.

PILOT TUBE ADAPTER, FA41403F
PILOT TUBE

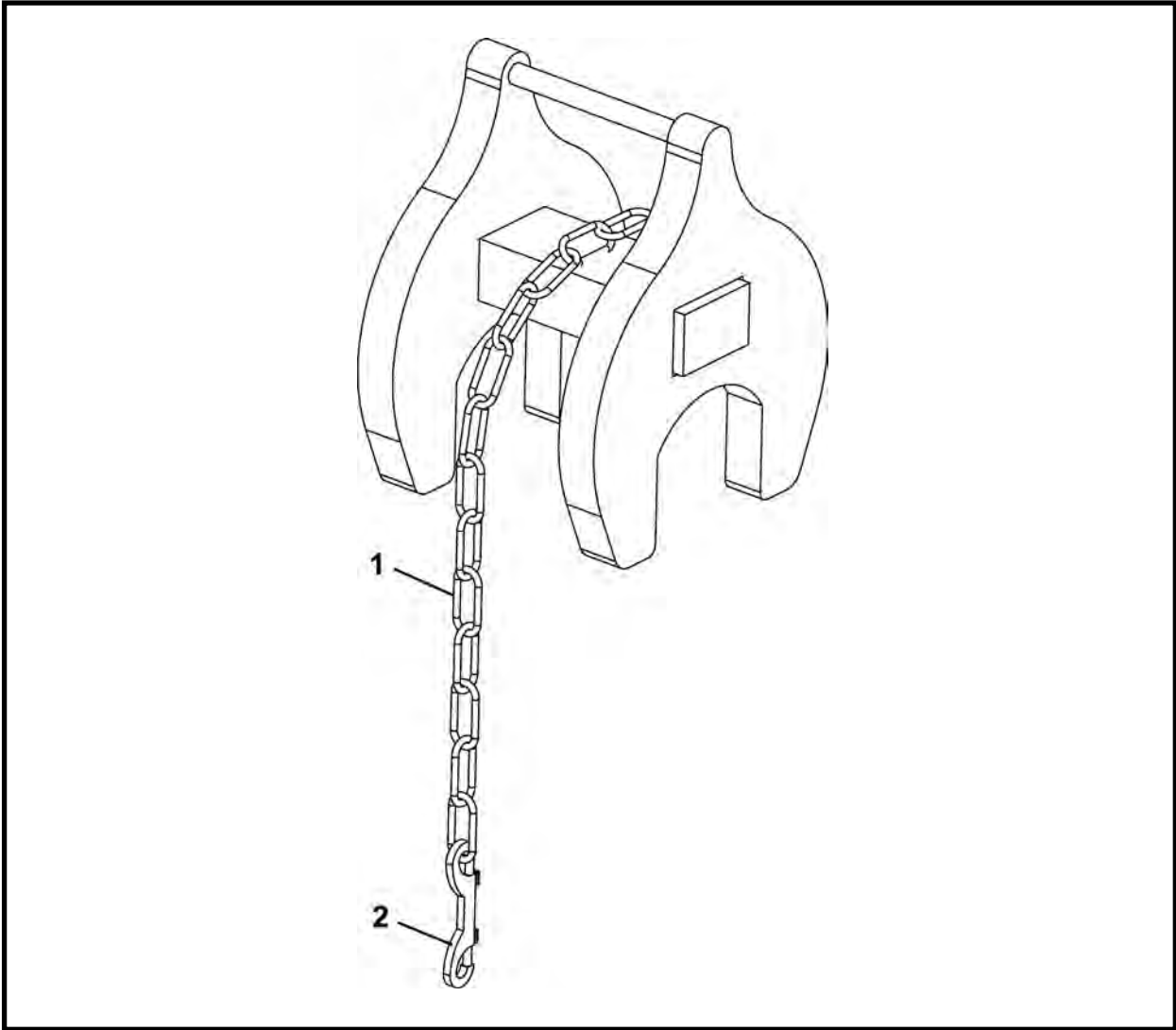


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA41403F	PILOT TUBE ADAPTER
1	1	NSS	TUBE, Inner
2	1	NSS	TUBE
3	1	NSS	ADAPTER, Female
4	1	A41332P	STEM, Hex Connection
5	1	NSS	BODY, Fluid Outlet
6	4	P0049-201	PIN, Spiral Spring
7	2	P0085-228	ORING
8	3	P0300-144	PLUG
9	1	FA40243F	CONNECTOR, Fluid, Reception Shaft

NSS - Not Sold Separately

NOTE: This is the pilot tube to 3" hex core adapter.

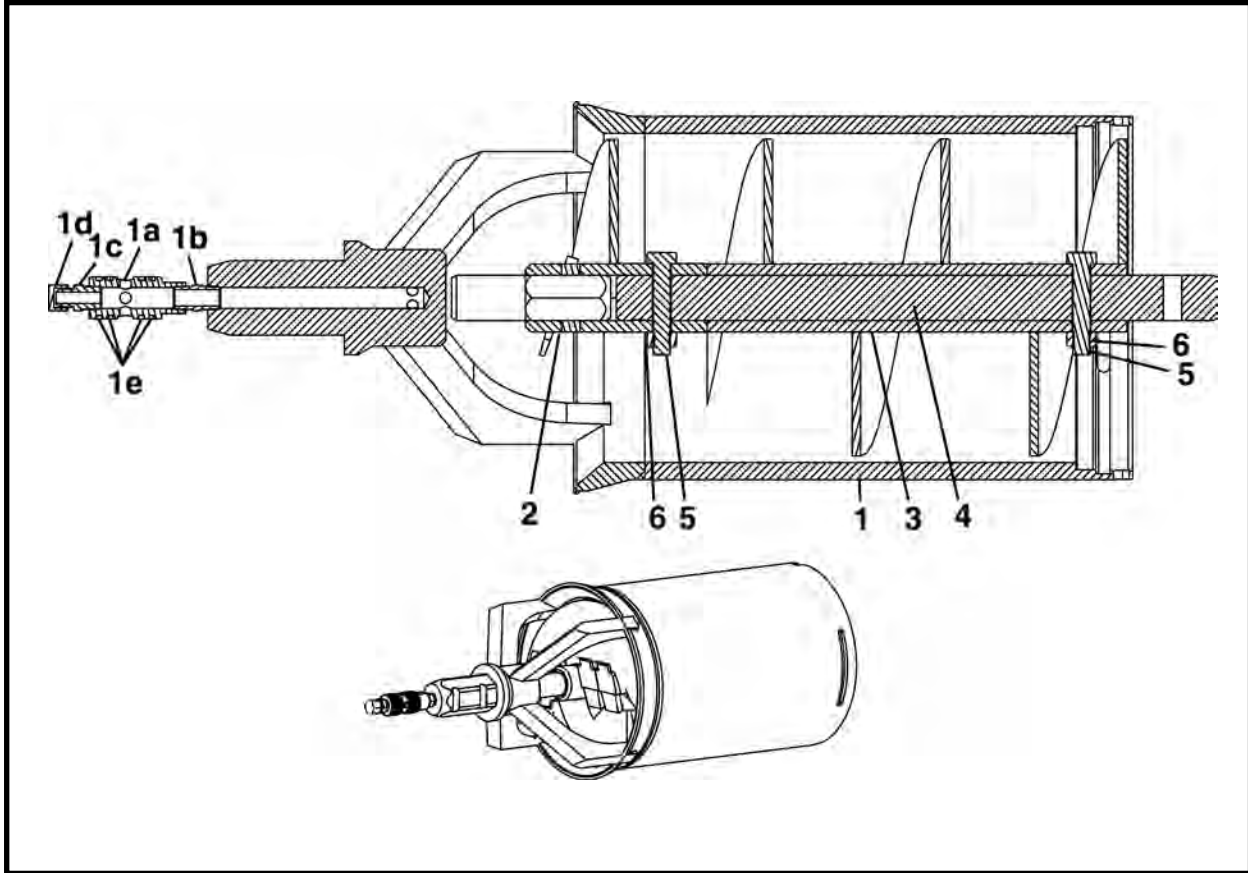
BREAKOUT TOOL - LAUNCH SHAFT ASSEMBLY, FA42240F
BREAKOUT TOOL



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42240F	BREAKOUT TOOL - LAUNCH SHAFT ASSEMBLY
1	20 IN	P0094-001-020	CHAIN 2/0 x 20
2	1	P0098-046	HOOK, Double Snap

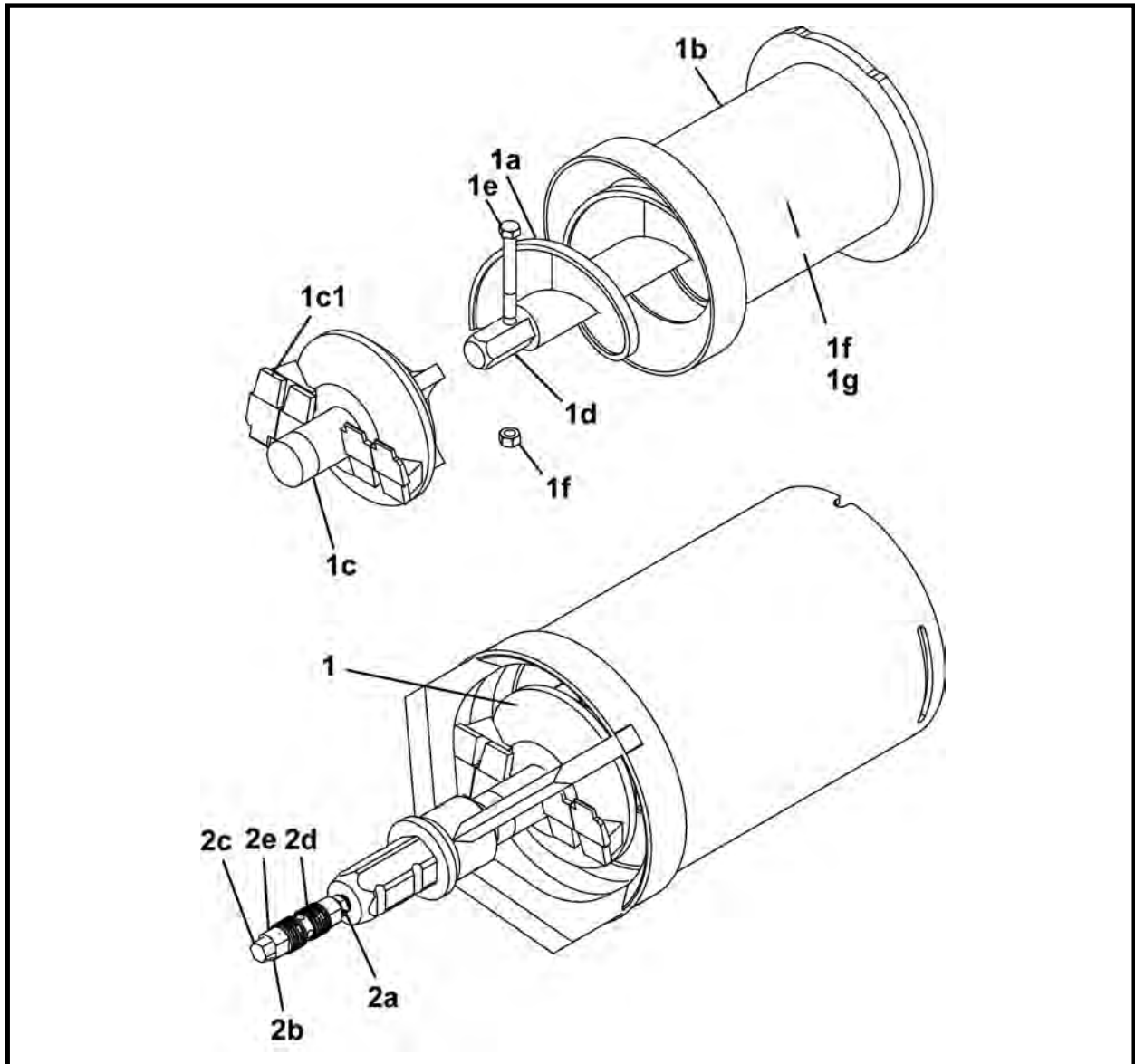
IN - Linear Inch

REAMING HEAD, 2" Hex Auger, 11" & 16" OD
REAMING HEAD



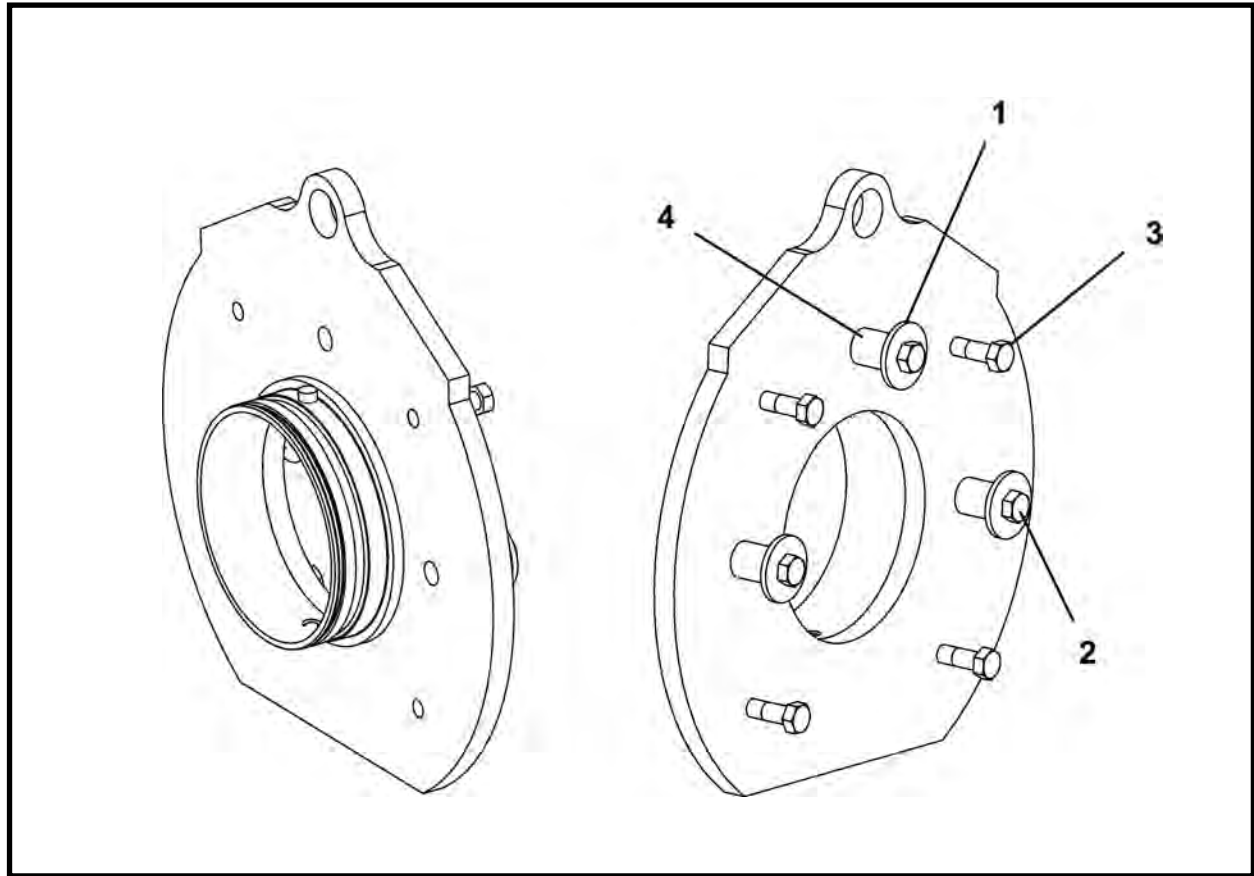
ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA40304F	REAMING HEAD 11" OD Casing, 2" Hex Auger
0.2	1	FA40344F	REAMING HEAD 16" OD Casing
1.1	1	A40307A	CASING, Reaming Head 11" OD (Includes 1a - 1e)
1.2	1	A40347A	CASING, Reaming Head 16" OD (Includes 1a - 1e)
1a	1	A40976P	ADAPTER, Fluid
1b	1	P0300-107	NIPPLE
1c	1	P0300-174	ADAPTER
1d	1	P0300-140	CAP
1e	4	P0085-325	ORING
2.1	1	A41225A	CUTTER BIT 11" OD Casing
2.2	1	FA40348F	CUTTER BIT 16" OD Casing
3.1	1	A40313A	AUGER, Lead 11" OD Casing
3.2	1	A40353A	AUGER, Lead 16" OD Casing
4	1	A40907P	STEM
5	2	P0001-12-016	BOLT, 3/4 UNC x 4
6	2	P0013-12A-000	NUT, Nylok Lock

REAMING HEAD, SEALABLE, 2" Hex Auger, 16" OD, FA46144F
REAMING HEAD



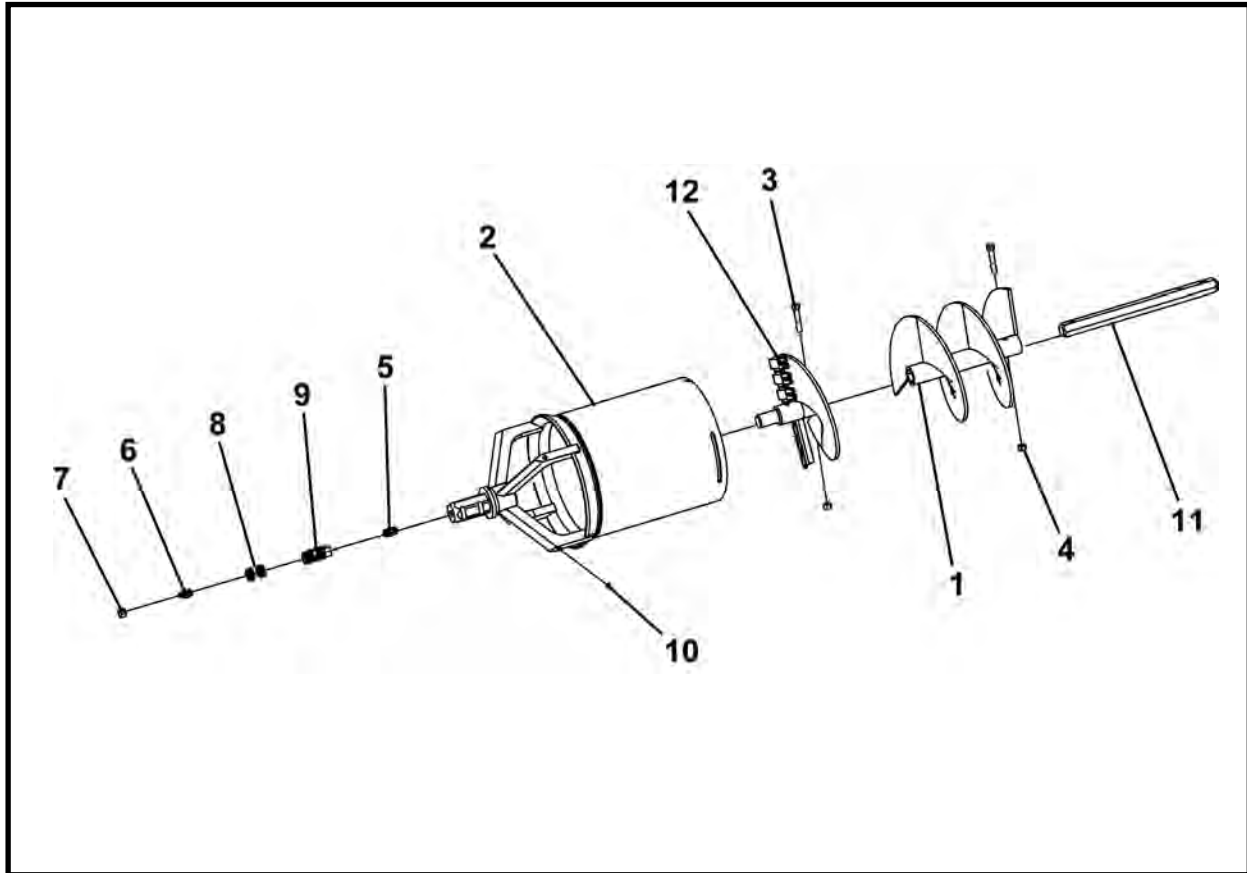
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA46144F	SEALABLE REAMING HEAD 16" OD
1	1	A46141A	SEALABLE AUGER ASSEMBLY (Includes items 1a - 1g)
1a	1	A40313A	AUGER, Starter
1b	1	A46138A	INSERT, Auger
1c	1	A46139A	BIT, Auger (Includes item 1c1)
1c1	4	P0050-001	CUTTER TEETH
1d	1	A46140P	STEM, 2" Hex
1e	1	P0001-12-022	BOLT, Hex 3/4 UNC x 5.5
1f	2	P0013-12A-000	NUT, Nylock 3/4
1g	1	P0001-12-016	BOLT, Hex 3/4 UNC x 4
2	1	A46143A	REAMING HEAD, Sealable (Includes items 2a - 2e)
2a	1	P0300-107	NIPPLE
2b	1	P0300-174	ADAPTER
2c	1	P0300-140	CAP
2d	4	P0085-325	ORING
2e	1	A40976P	ADAPTER, Fluid

CASING THRUST ADAPTER



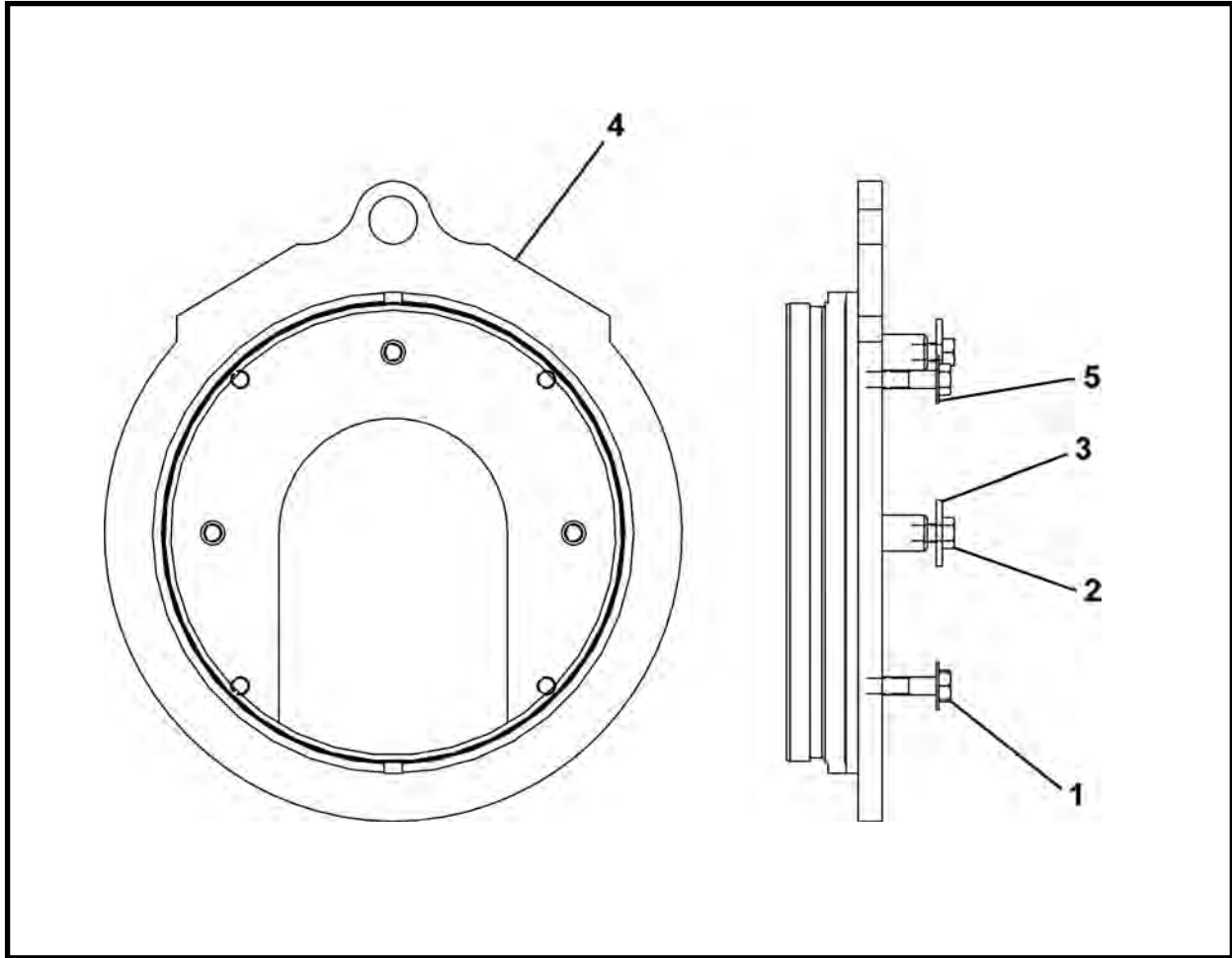
ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA40300F	ADAPTER, Casing Thrust, 11" OD Casing
0.2	1	FA40340F	ADAPTER, Casing Thrust, 16" OD Casing
1	3	004124P01	WASHER
2	3	P0001-12-005	BOLT, Hex 3/4 UNC x 1.25
3	4	P0001-12-012	BOLT, Hex 3/4 UNC x 3
4	3	A40608P	ADAPTER, Pin Thrust

REAMING HEAD ASSEMBLY, 20" OD, FA42801F
REAMING HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42801F	REAMING HEAD ASSEMBLY, 20" OD
1	1	A42827A	WELDMENT, Lead Auger
2	1	A42823A	WELDMENT, Full Auger
3	2	P0001-12-016	BOLT, 3/4 UNC x 4
4	2	P0013-12A-000	NUT, 3/4
5	1	P0300-107	NIPPLE
6	1	P0300-174	ADAPTER
7	1	P0300-140	CAP
8	4	P0085-325	ORING
9	1	A40976P	ADAPTER, Fluid
10	4	P0300-026	PLUG
11	1	A40907P	STEM
12	1	A42836A	CUTTER BIT

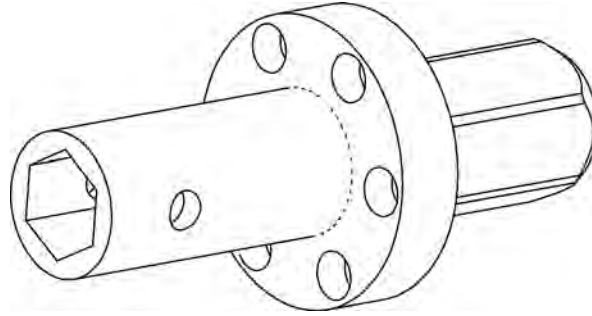
CASING THRUST ADAPTER - 20", FA42802F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42802F	ADAPTER, Casing Thrust 20"
1	4	P0001-12-012	BOLT, 3/4 UNC x 3
2	3	P0001-12-005	BOLT, 3/4 UNC x 1.25
3	3	004124P01	WASHER
4	1	A42820A	WELDMENT, Thrust Adapter
5	4	P0040-012	WASHER, Flat 3/4

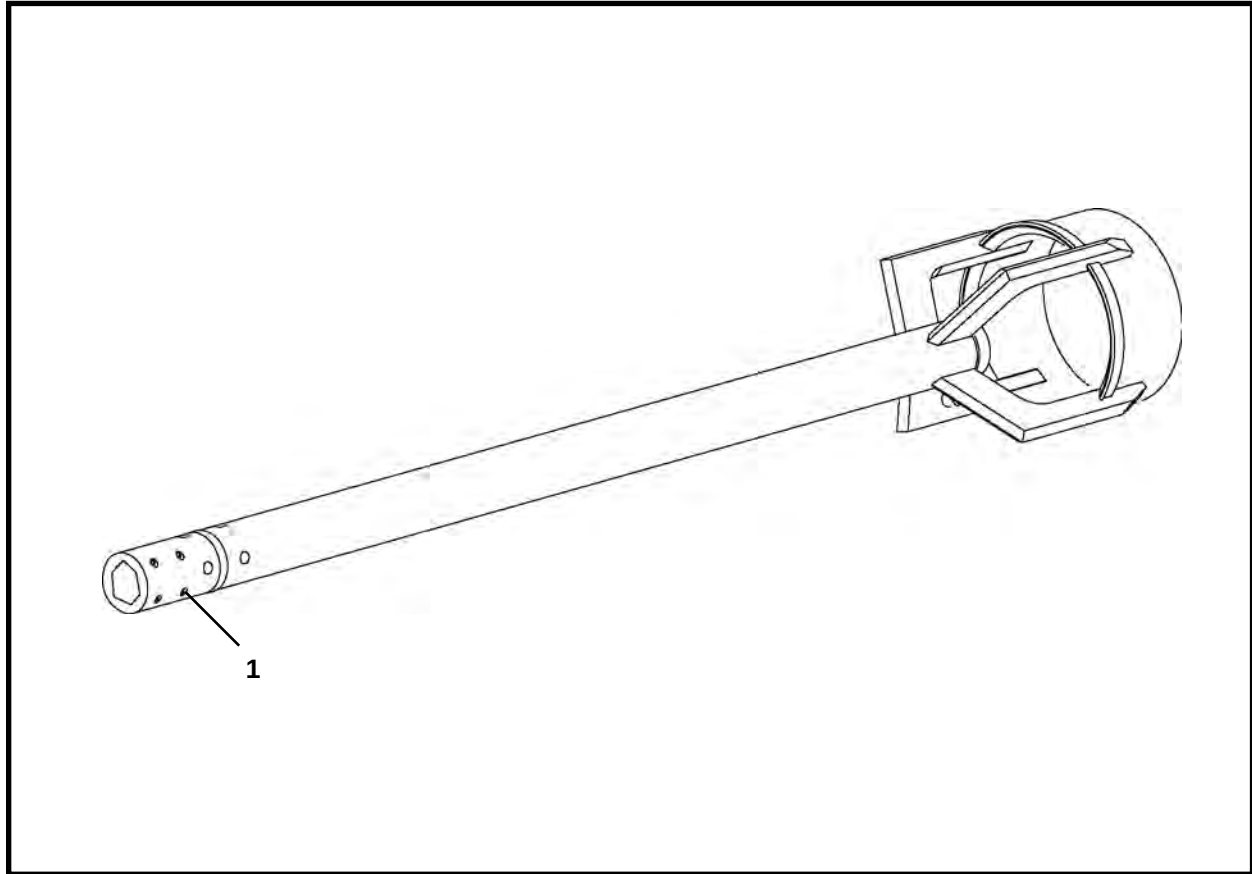
NOTE: Use with 20" casing only.

AUGER DRIVE ADAPTER - 2" HEX INPUT, FA40205F
20" CASING



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40205F	AUGER DRIVE ADAPTER - 2" Hex Input

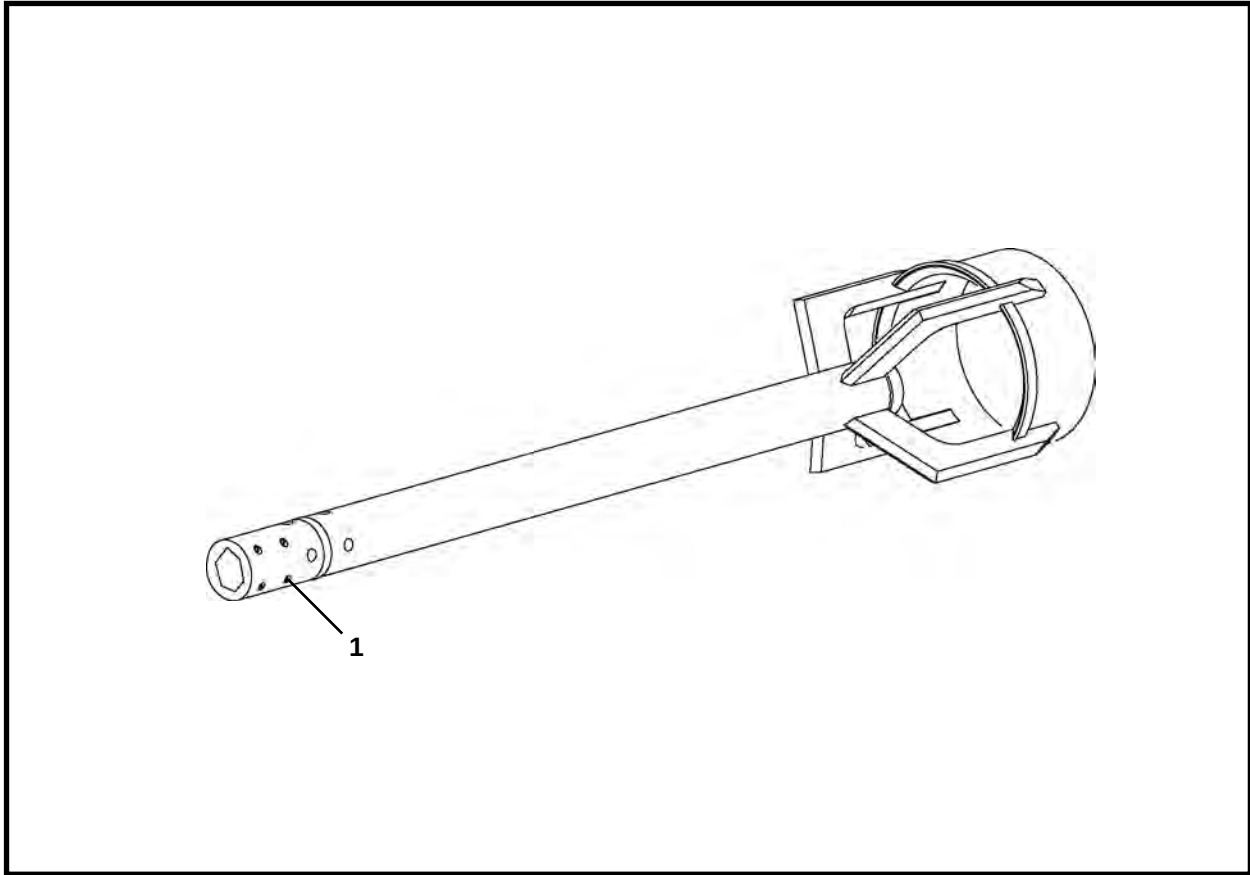
WELD ON REAMING HEAD ASSEMBLY - SINGLE STAGE, 12" OD - 36" OD
3" ID HEX CONNECTION
AUGER BORING



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA41440F	HEAD, 10" Weld On Reaming (Includes item 1)
0.2	1	FA43490F	HEAD, 12" Short Weld On Reaming (Includes item 1)
0.3	1	FA41407F	HEAD, 12" Weld On Reaming (Includes item 1)
0.4	1	FA41406F	HEAD, 14" Weld On Reaming (Includes item 1)
0.5	1	FA41405F	HEAD, 16" Weld On Reaming (Includes item 1)
0.6	1	FA41404F	HEAD, 18" Weld On Reaming (Includes item 1)
0.7	1	FA41401F	HEAD, 20" Weld On Reaming (Includes item 1)
0.8	1	FA41408F	HEAD, 22" Weld On Reaming (Includes item 1)
0.9	1	FA41444F	HEAD, 22.75" Weld On Reaming (Includes item 1)
0.10	1	FA43499F	HEAD, 24" Short Weld On Reaming (Includes item 1)
0.11	1	FA41400F	HEAD, 24" Weld On Reaming (Includes item 1)
0.12	1	FA47165F	HEAD, 24" Weld On Reaming (Includes item 1)
0.13	1	FA41409F	HEAD, 26" Weld On Reaming (Includes item 1)
0.14	1	FA41430F	HEAD, 28" Weld On Reaming (Includes item 1)
0.15	1	FA42336F	HEAD, 30" Weld On Reaming (Includes item 1)
0.16	1	FA42740F	HEAD, 34" Weld On Reaming (Includes item 1)
0.17	1	FA42474F	HEAD, 36" Weld On Reaming (Includes item 1)
1	4	P0049-201	PIN, Spiral Spring

NOTE: Pilot Tube 10 ft. FA41402F, is mounted ahead of weld on reaming head.

24" OD WELD ON REAMING HEAD ASSEMBLY FOR 8' SHAFT, FA42288F
3" ID HEX, 96" INSTALLED LENGTH
AUGER BORING

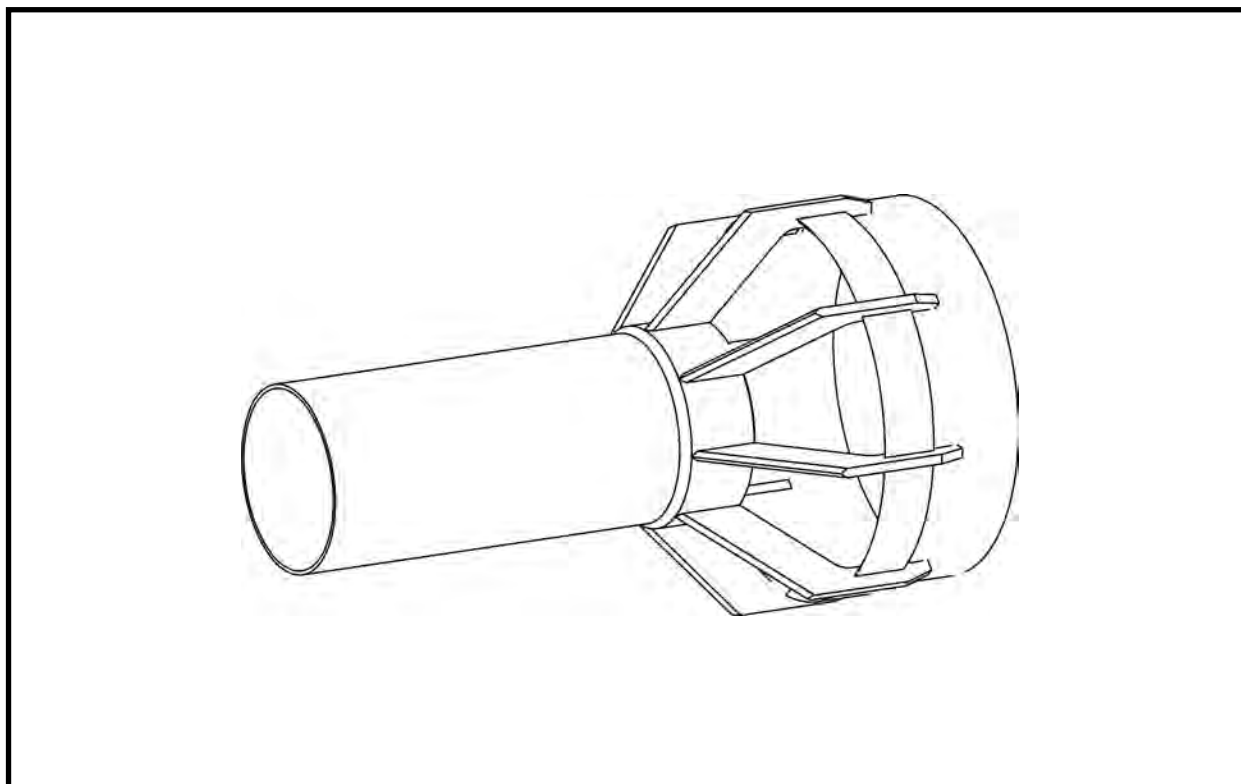


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42288F	ASSEMBLY, 24" OD Weld On Reaming Head
1	4	P0049-201	PIN, Spiral Spring

NOTE:

Guide Rod 3 ft. FA41234F (typically up to three), is mounted ahead of weld on reaming head.

WELD ON REAMING HEAD ASSEMBLY - TWO STAGE AUGER BORING



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA47074F	HEAD, 16" to 36" OD Weld On Reaming
0.2	1	FA43465F	HEAD, 18" to 36" OD Weld On Reaming
0.3	1	FA43081F	HEAD, 24" to 42" OD Weld On Reaming
0.4	1	FA44776F	HEAD, 24" to 45" OD Weld On Reaming
0.5	1	FA44820F	HEAD, 24" to 45.5" OD Weld On Reaming
0.6	1	FA43095F	HEAD, 24" to 48" OD Weld On Reaming
0.7	1	FA43087F	HEAD, 24" to 54" OD Weld On Reaming
0.8	1	FA46060F	HEAD, 24" to 60" OD Weld On Reaming
0.9	1	FA46880F	HEAD, 24" to 68" OD Weld On Reaming
0.10	1	FA44456F	HEAD, 30" to 48" OD Weld On Reaming
0.11	1	FA43308F	HEAD, 30" to 54" OD Weld On Reaming
0.12	1	FA43096F	HEAD, 30" to 60" OD Weld On Reaming
0.13	1	FA43224F	HEAD, 30" to 66" OD Weld On Reaming
0.14	1	FA43046F	HEAD, 30" to 72" OD Weld On Reaming
0.15	1	FA46886F	HEAD, 36" to 54" OD Weld On Reaming
0.16	1	FA45038F	HEAD, 36" to 72" OD Weld On Reaming

NOTE:

Single stage weld on reaming head is mounted ahead of two stage weld on reaming head.

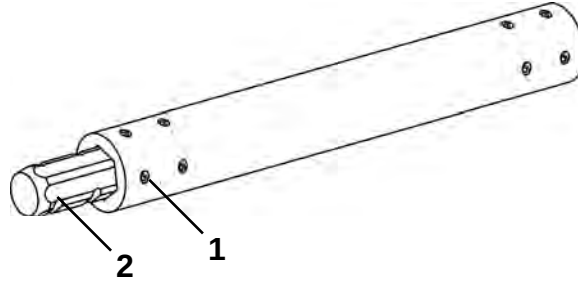
A section or more of casing (per job requirements) must be between the single stage and two stage weld on reaming head.

In hard ground, push the single stage weld on reaming head completely to the reception shaft before installing the two stage weld on reaming head. This will reduce the jacking forces during advancement of the two stage weld on reaming head.

In soft ground, add at least a 10' (3 m) or 20' (6.2 m) casing or more between the single and two stage weld on reaming heads to maintain the line.

GUIDE ROD, 3 FT, FA41234F

3" ID HEX CONNECTION
AUGER BORING



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA41234F	GUIDE ROD 3 FT (Includes items 1a and 1b)
1	8	P0049-201	PIN, Spiral Spring
2	1	A41332P	STEM, Hex Connection

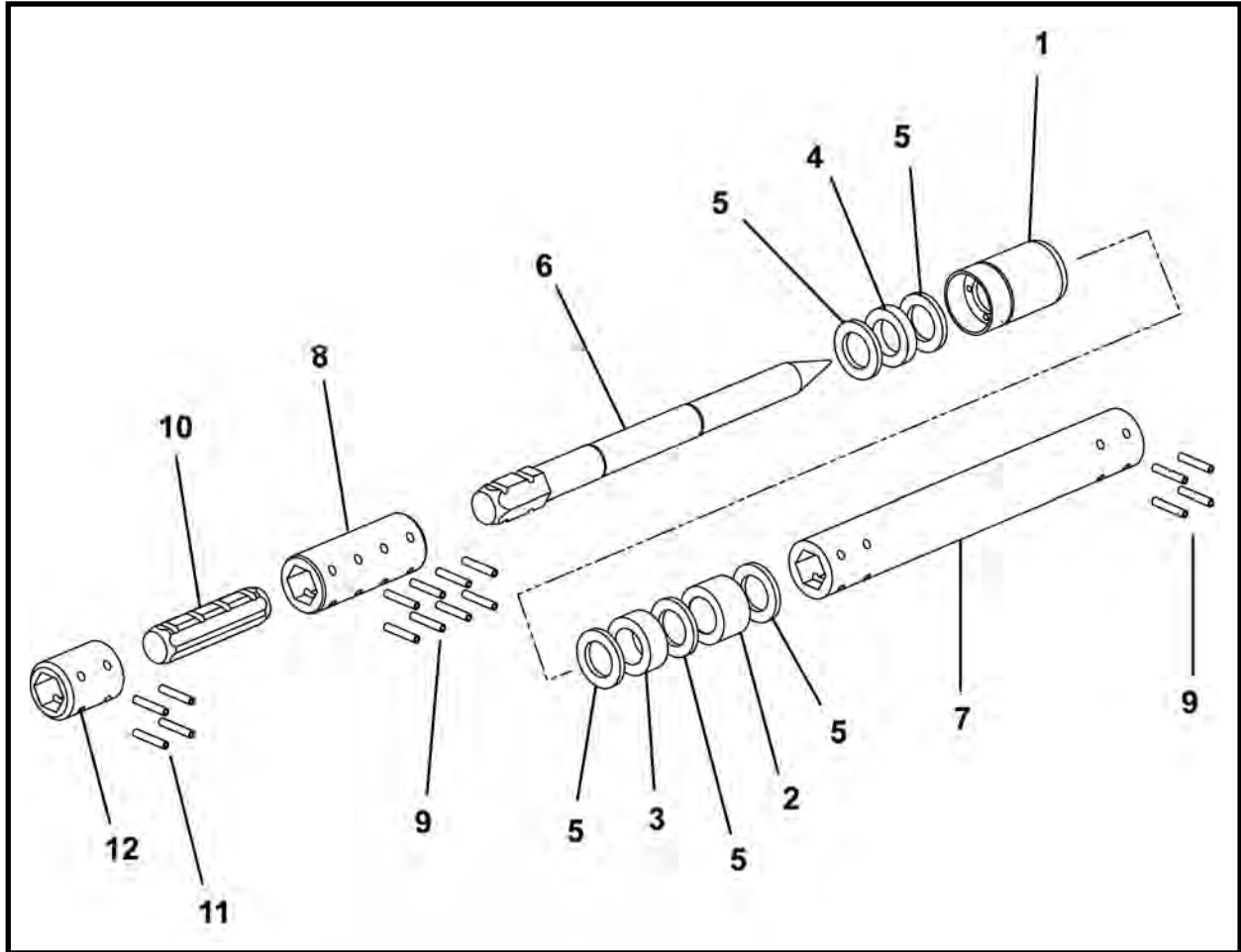
NOTE:

1. Pilot Tube Adapter FA41403F, is installed ahead of 3 ft. Guide Rod FA41234F.
2. Due to size of shaft where the FA41402F 10ft Pilot Tube cannot be used, the FA41234F Guide Rod is used in lieu of FA41402F. Typically up to three FA41234F 3 ft Guide Rods are used.

PILOT GUIDE SWIVEL ASSEMBLY, FA41275F

3" HEX CONNECTION

CUTTER HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA41275F	PILOT GUIDE SWIVEL ASSEMBLY (Includes items 1 - 9)
1	1	A41280A	RETAINER, Thrust
2*	2	A41277P	RING, Wear 3"
3*	2	A41278P	RING, Wear 2"
4*	2	A41279P	RING, Wear 1"
5	5	A41276P	WASHER, Thrust 1/2"
6	1	A41326P	SHAFT, Guide
7	1	A41331P	TUBE, Hex Core Pilot - Female
8	1	A41325P	ADAPTER, Female
9	12	P0049-201	PIN, Spiral
10**	1	A41332P	STEM, Hex Connection
11**	4	P0049-201	PIN, Spiral
12**	1	A42352P	ADAPTER, Weld-On Auger

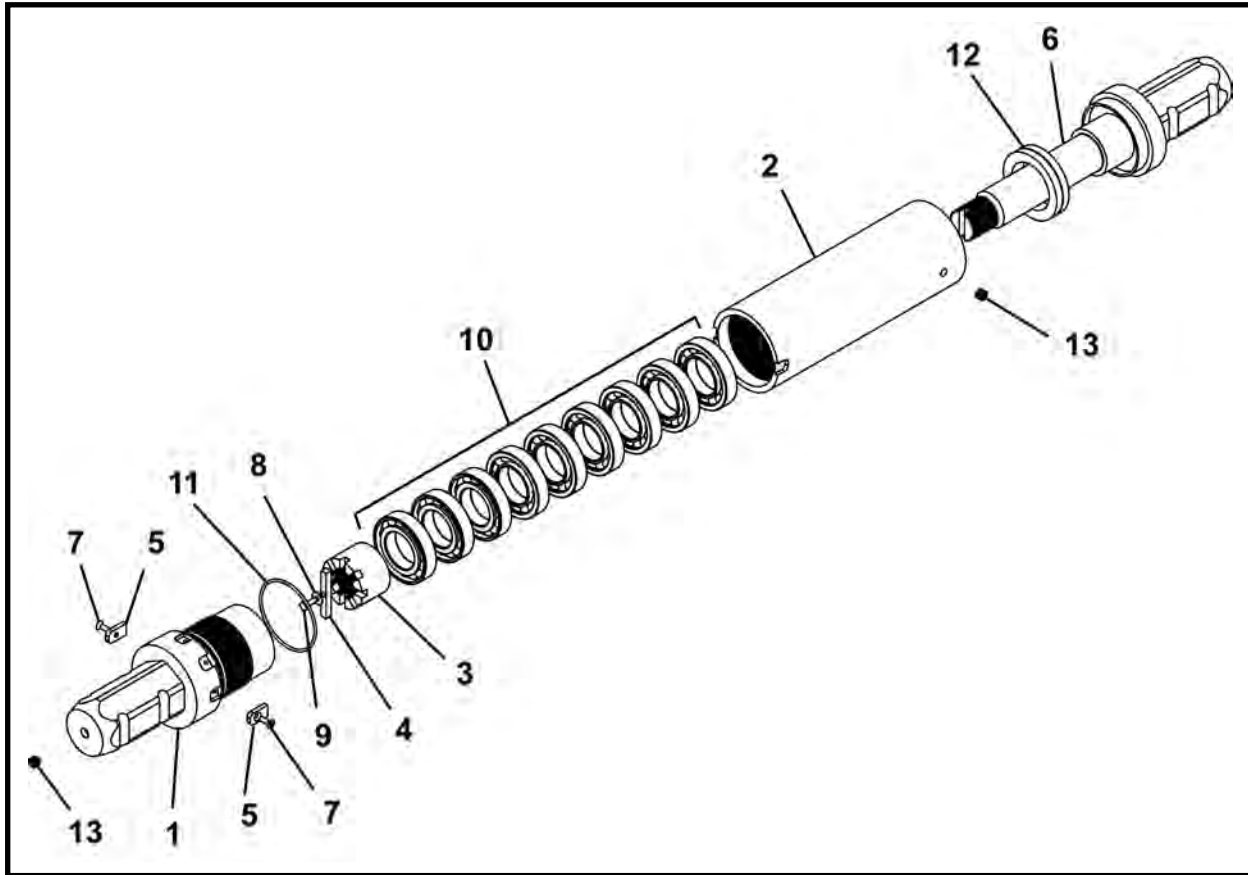
* Includes a spare item.

** Not included with FA41275F, Pilot Guide Swivel Assembly

NOTE:

1. Mounts to Cutter Head and Hex Core Pilot Tube.
2. Grease item 6, Guide Shaft before installing item 2, Wear Ring.
3. Item 12, Weld-On Auger Adapter is welded to auger boring cutter head.

GBM SWIVEL ASSEMBLY, FA46480F
3" HEX CONNECTION
CUTTER HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA46480F	ASSEMBLY, GBM SWIVEL
1	1	A46483P	COUPLING
2	1	A46484P	CASING
3	1	A46485P	LOCKNUT
4	1	A46486P	KEY, Inner
5	2	A46487P	KEY, Outer
6	1	A46482P	SHAFT
7	2	P0030-04-003	SCREW, Flat Head Cap 1/4 UNC x .75
8	1	P0040-004	WASHER, Hardened Flat 1/4
9	1	P0001-04-004	BOLT, Hex 1/4 UNC x 1
10*	9	P0065-262	BEARING, Thrust
11	1	P0085-241	ORING
12	1	P0065-193	SEAL, Shaft
13	2	P0300-026	PLUG, 04MP-HHP
14	1 QT	P0126-048	OIL, Mobil SHC 634

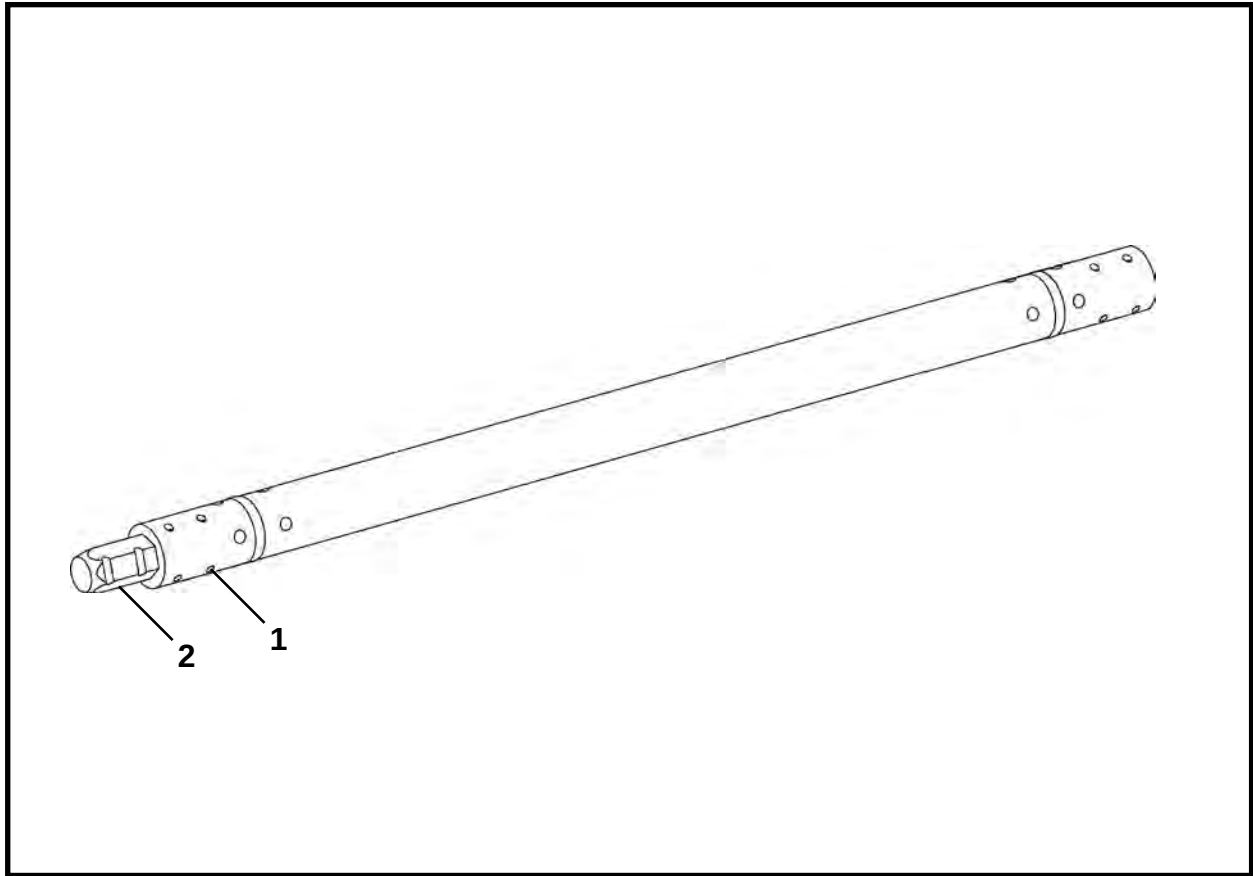
* Bearings MUST be assembled in correct orientation. Contact your Akkerman Aftermarket Support representative for more information.

QT - Quart

NOTE:

1. Mounts to Cutter Head and Pilot Tube Adapter, FA41403F.
2. Inspect for proper oil level and for contamination after each drive.
3. Inspect bearing assembly for end play after each drive.
4. Replace bearing oil with Mobil SHC 634 oil after every 120 hours of operation.

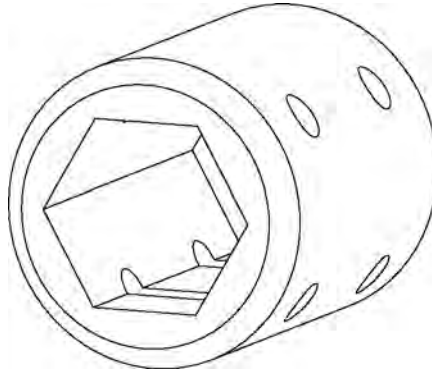
PILOT TUBE, 10 FT, FA41402F
3" ID HEX CONNECTION
AUGER BORING



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA41402F	TUBE, 10 Ft Pilot (Includes items 1a and 1b)
1	8	P0049-201	PIN, Spiral Spring
2	1	A41332P	STEM, Hex Connection

NOTE: Pilot Tube Adapter FA41403F, is mounted ahead of 10 ft. Pilot Tube FA41402F.

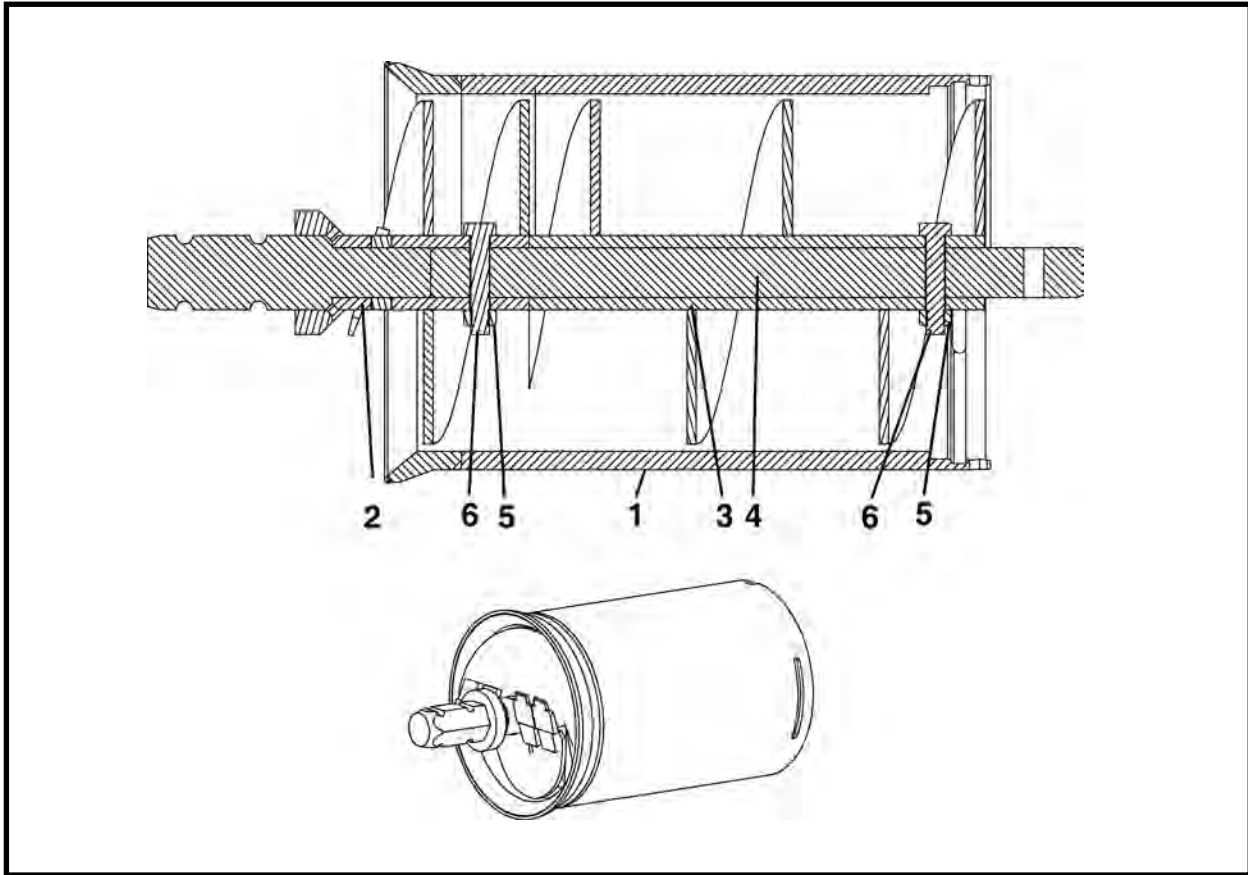
WELD ON AUGER ADAPTER, A42352P
3" ID HEX CONNECTION
AUGER BORING



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42352P	ADAPTER, Weld On Auger

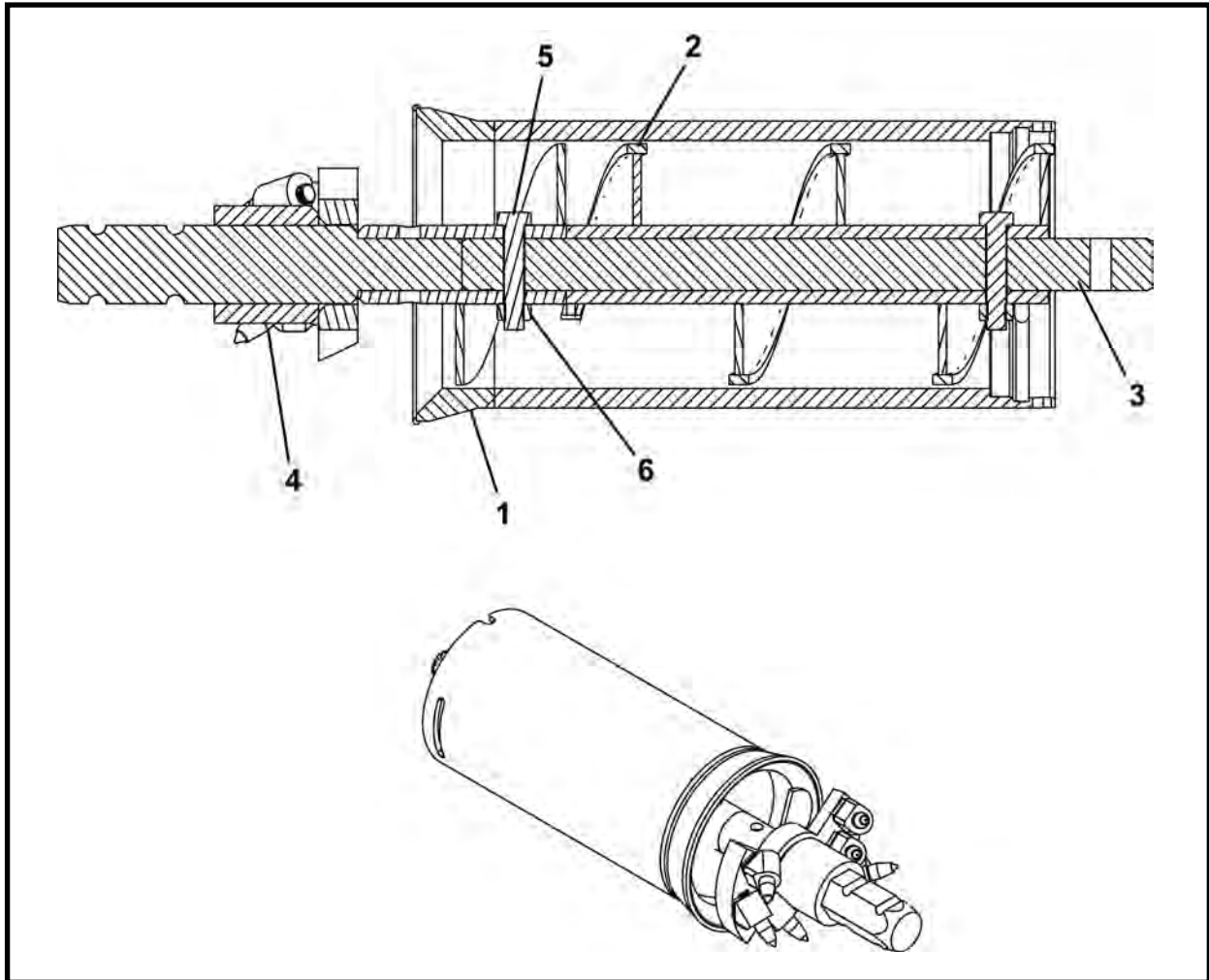
NOTE: Adapter is welded to the auger boring cutter head to provide a connection for guide rod, A41326P.

CUTTER HEAD ASSEMBLY, 11" - 16" OD
CUTTER HEAD



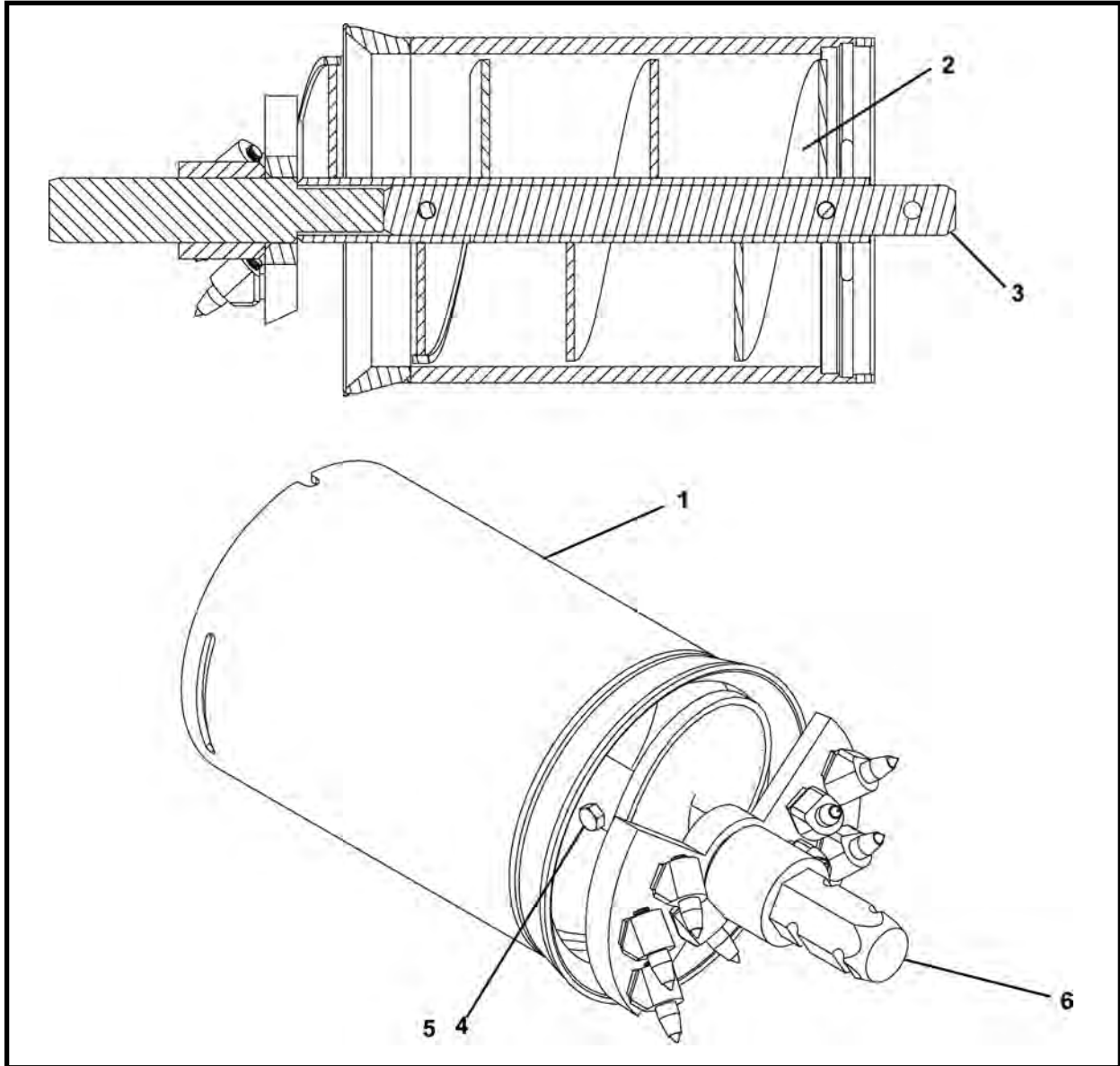
ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA40305F	CUTTER HEAD 11" OD Casing
0.2	1	FA40345F	CUTTER HEAD 16" OD Casing
1.1	1	A40311A	WELDMENT, Cutter Head 11" OD Casing
1.2	1	A40351A	WELDMENT, Cutter Head 16" OD Casing
2.1	1	A40279A	CUTTER BIT 11" OD Casing
2.2	1	A40349A	CUTTER BIT 16" OD Casing
3.1	1	A40313A	WELDMENT, Lead Auger 11" OD Casing
3.2	1	A40353A	WELDMENT, Lead Auger 16" OD Casing
4	1	A40907P	STEM
5	2	P0001-12-016	BOLT, 3/4 UNC x 4
6	2	P0013-12A-000	NUT, Nylok Lock 3/4

FULL FACE CUTTER HEAD ASSEMBLY, 11" OD, FA43763F
CUTTER HEAD



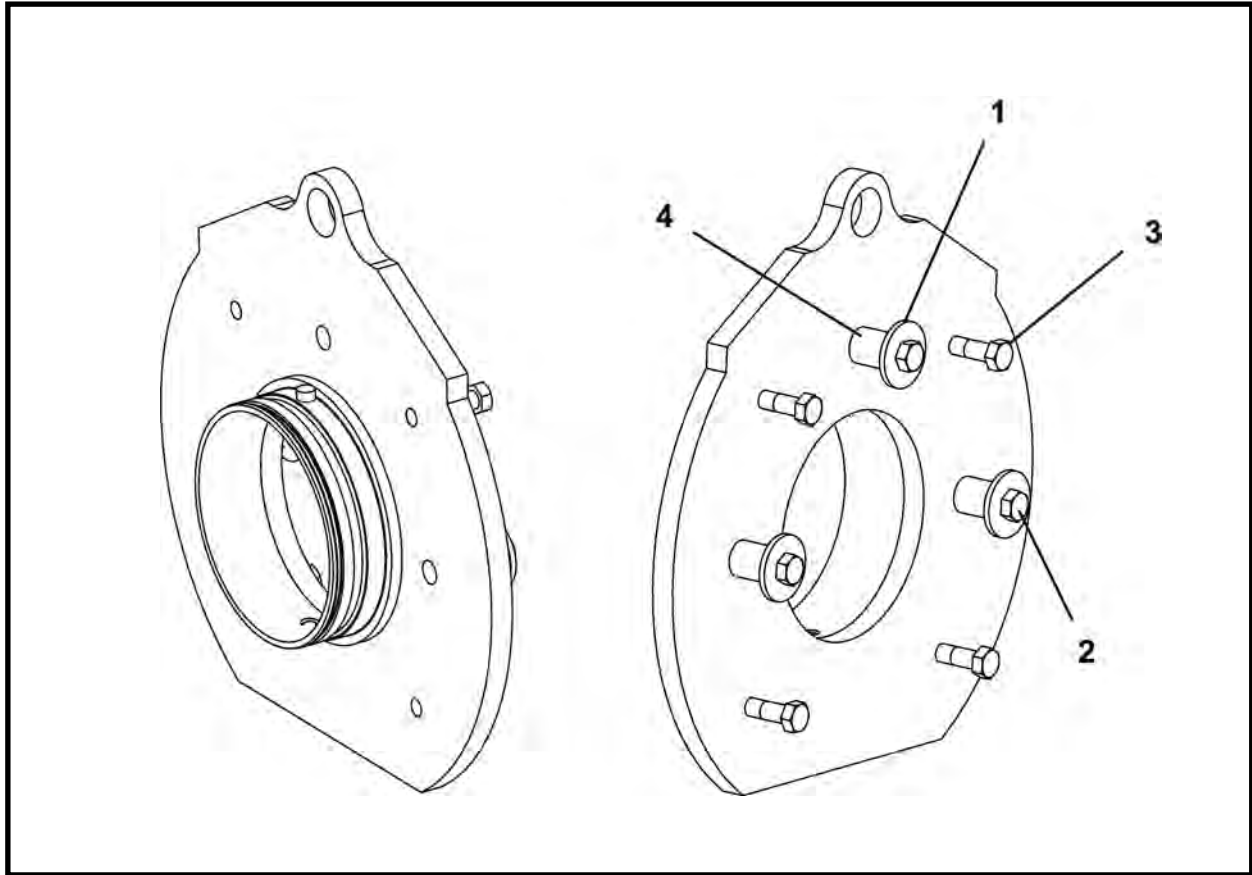
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43763F	FULL FACE CUTTER HEAD ASSEMBLY - 11" OD
1	1	A40311A	WELDMENT, Cutter Head
2	1	A40313A	CASING, Auger
3	1	A40907P	STEM
4	1	A43762A	CUTTER BIT
5	2	P0001-12-016	BOLT, 3/4 UNC x 4
6	2	P0013-12A-000	NUT, 3/4

FULL FACE CUTTER HEAD ASSEMBLY, 16" OD, FA44504F
CUTTER HEAD



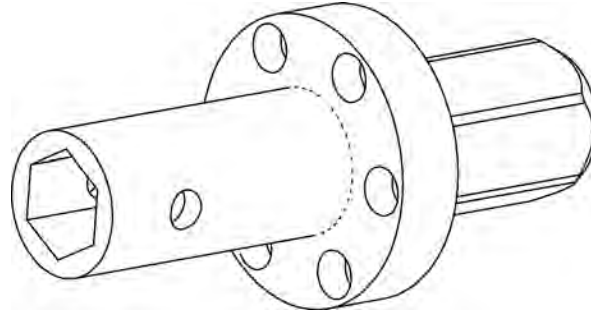
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA44504F	FULL FACE CUTTER HEAD ASSEMBLY - 16" OD
1	1	A40351A	WELDMENT, Cutter Head
2	1	A40353A	CASING, Auger
3	1	A40907P	STEM
4	2	P0001-12-016	BOLT, 3/4 UNC x 4
5	2	P0013-12A-000	NUT, 3/4
6	1	A44503A	CUTTER BIT

CASING THRUST ADAPTER



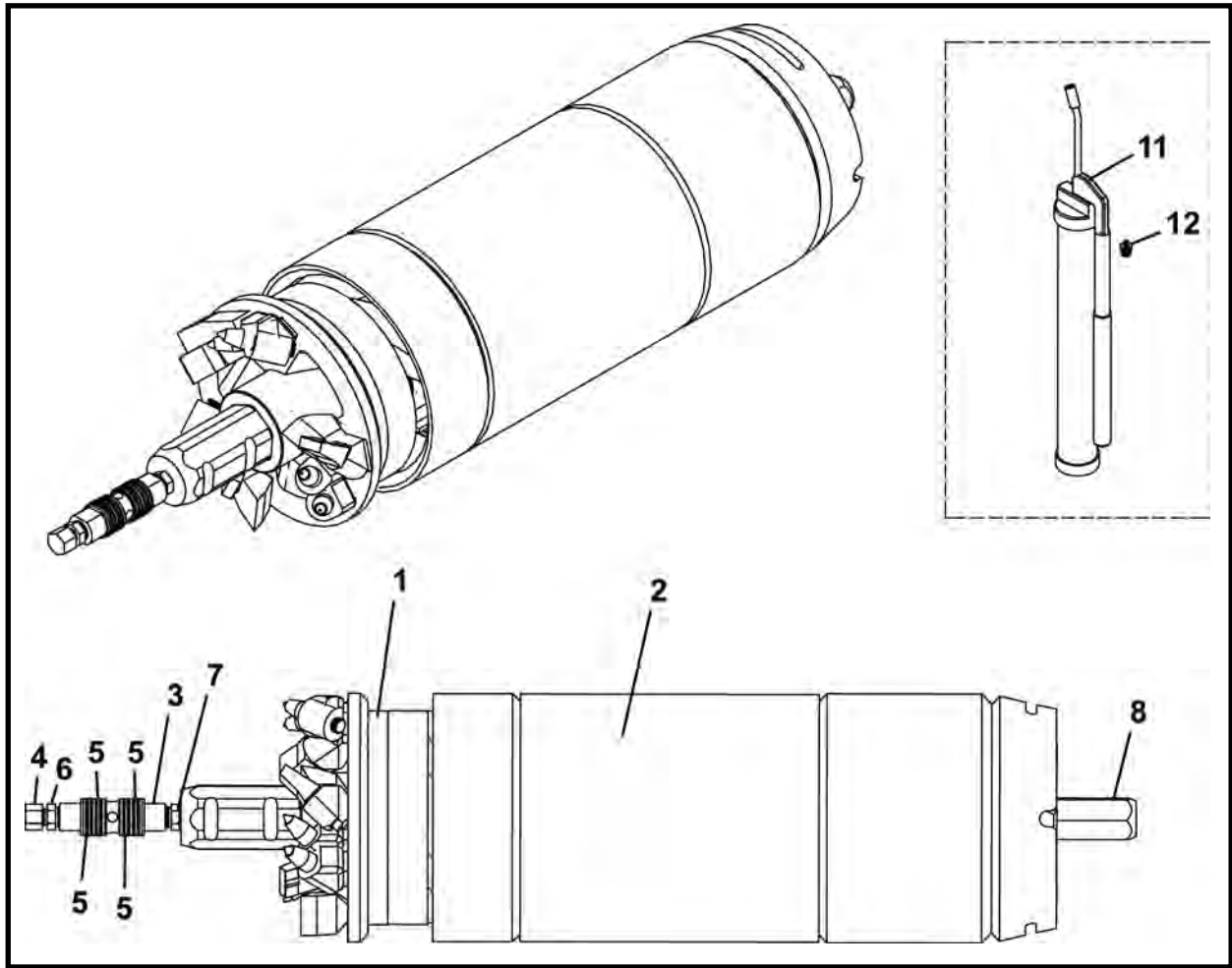
ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA40300F	ADAPTER, Casing Thrust, 11" OD Casing
0.2	1	FA40340F	ADAPTER, Casing Thrust, 16" OD Casing
1	3	004124P01	WASHER
2	3	P0001-12-005	BOLT, Hex 3/4 UNC x 1.25
3	4	P0001-12-012	BOLT, Hex 3/4 UNC x 3
4	3	A40608P	ADAPTER, Pin Thrust

AUGER DRIVE ADAPTER - 2" HEX INPUT, FA40205F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA40205F	AUGER DRIVE ADAPTER - 2" Hex Input

INTEGRAL BEARING SWIVEL CUTTER HEAD, 11" OD, FA44634F
11" OD SWIVEL

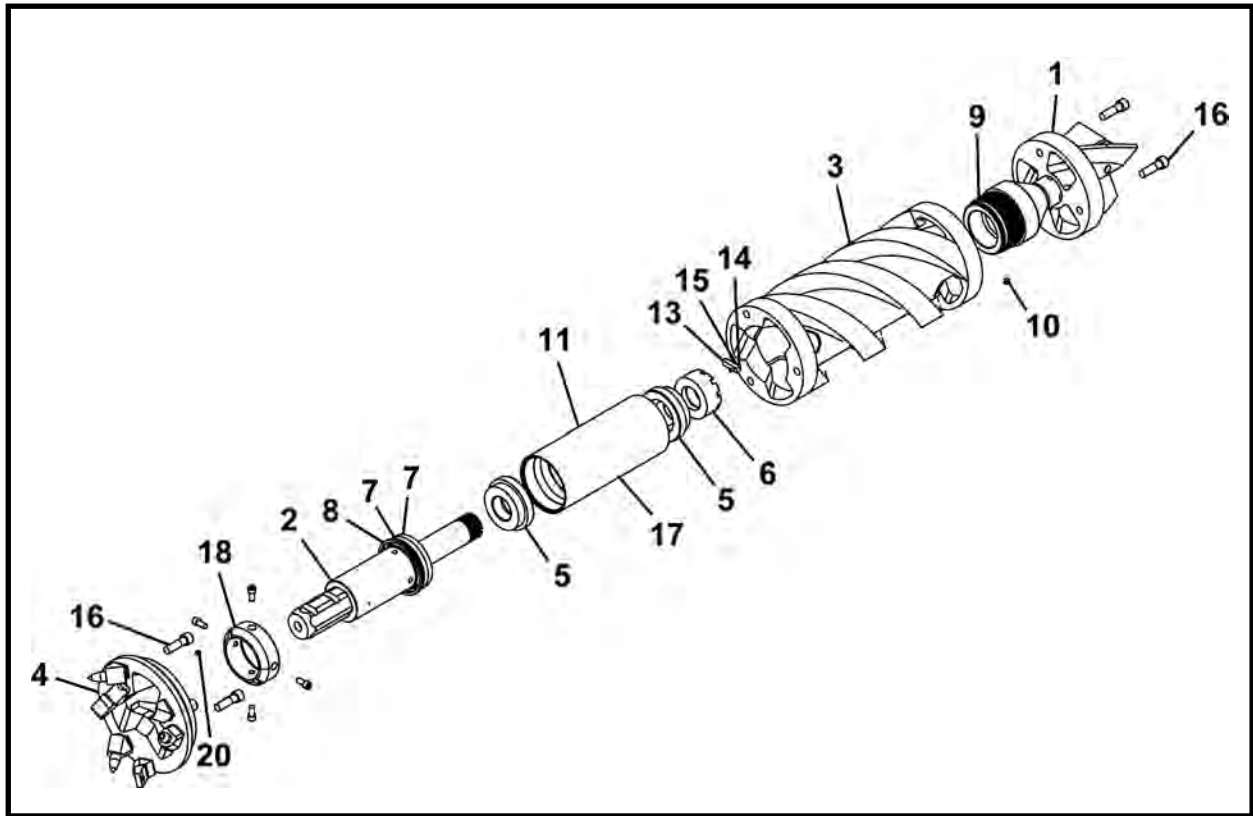


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA44634F	INTEGRAL BEARING SWIVEL CUTTER HEAD, 11" OD
1*	1	A44664A	ASSEMBLY, Auger 11" Swivel Cutter
2	1	A44654A	CASING, 11" Swivel Cutter
3	1	A40976P	ADAPTER, Fluid
4	1	P0300-140	FITTING, 10FJ-CAP
5	4	P0085-325	ORING
6	1	P0300-174	FITTING, 10MJ-12MP
7	1	P0300-107	FITTING, 12MP-12MP
8	1	A42135P	SHAFT, Hex End
9**	1	P0001-12-016	BOLT, Hex 3/4 UNC x 4
10**	1	P0013-12A-000	NUT, Nylock 3/4
11	1	P0126-039	GUN, Oil
12	1	P0063-016	FITTING, Grease Straight

* Refer to this section for parts information.

** Not Shown

AUGER SWIVEL CUTTER ASSEMBLY, 11" OD, A44664A
11" OD SWIVEL



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44664A	AUGER SWIVEL CUTTER ASSEMBLY, 11"
1	1	A44662A	AUGER, Rear
2	1	A46148P	SHAFT WITH HEX
3	1	A44651A	FLUTES, Auger
4*	1	A46151A	CUTTER BIT, Hard Ground
5	2	P0065-182	BEARING
6	1	A42351P	RING, Washer Support
7	1	P0065-183	SEAL, Oil
8	1	P0065-185	V-SEAL
9	1	P0085-252	ORING
10	1	P0300-026	FITTING, 04MP-HHP
11	1	P0300-176	FITTING, 06MB-HHP
12	1 GAL	P0126-030	OIL, Mobil Gear 636
13	1	A42601P	KEY, Swivel Shaft
14	1	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
15	1	P0040-004	WASHER, Hardened Flat 1/4
16	6	P0031-12-010	SCREW, Socket Head Cap 3/4 x 2.5
17	1	A42349P	HOUSING
18	1	A46257P	RETAINER, Seal
19	4	P0031-08-004	SCREW, Socket Head Cap 1/2 UNC x 1
20	2	P0300-144	FITTING, 02MP-HHP

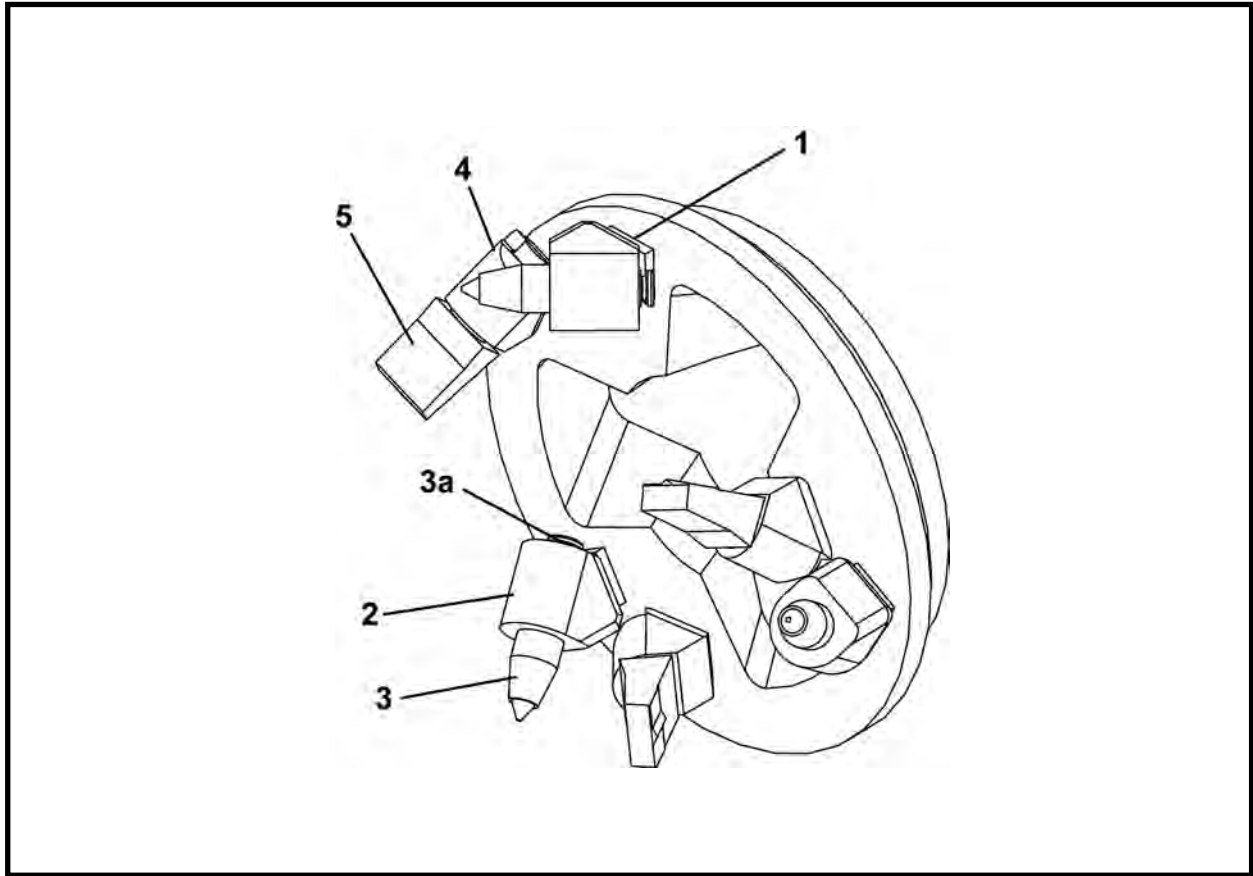
* Refer to this section for parts information.

GAL - Gallon

NOTE: Lubricate ONLY with Mobil Gear 636 oil (Part number P0126-030).

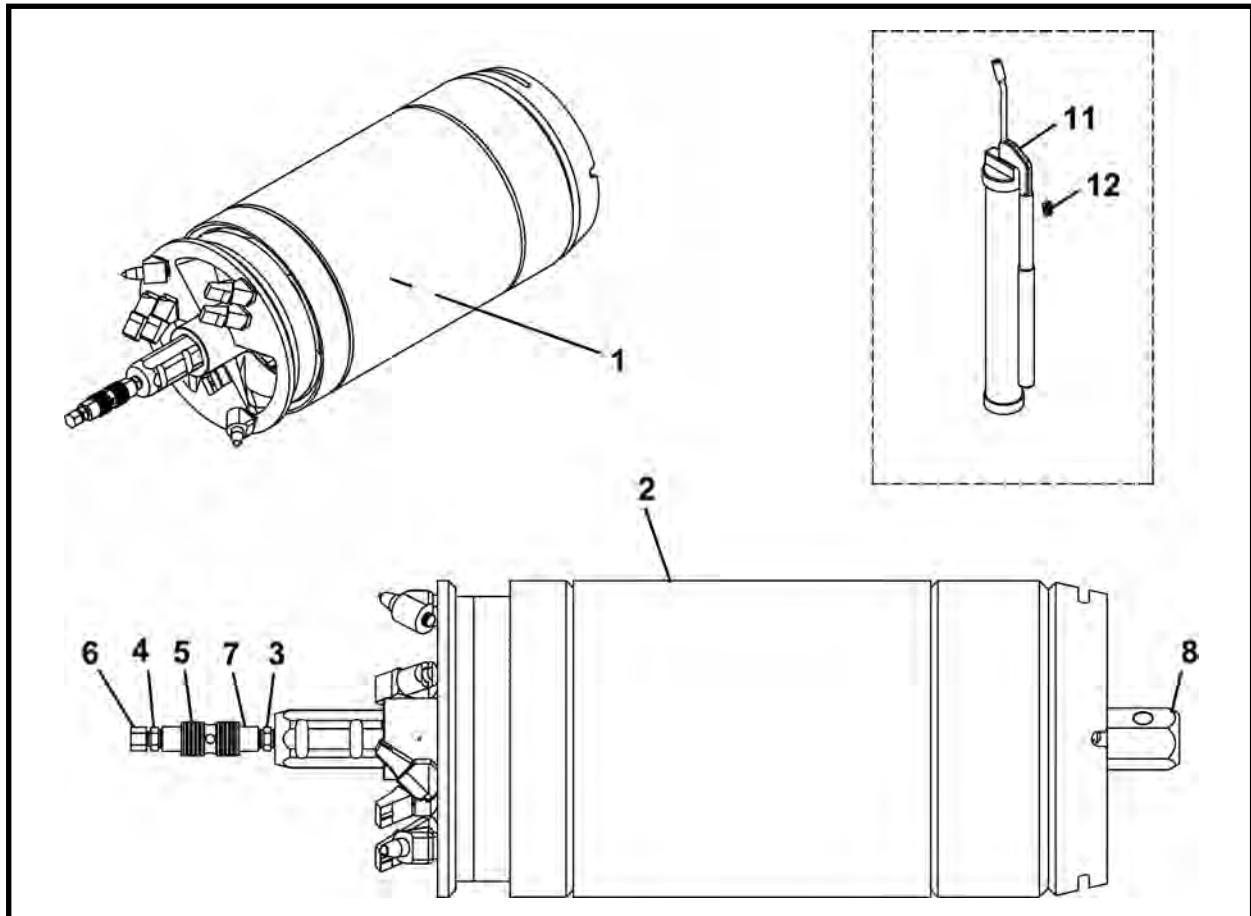
Note: If components in this assembly do not match your auger swivel cutter assembly, contact your Aftermarket Support representative.

HARD GROUND CUTTER BIT, A46151A
11" OD SWIVEL



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A46151A	CUTTER BIT, Hard Ground 11"
1	3	A43159P	PAD
2	3	P0051-021	HOLDER, Bit
3	3	P0050-045	CUTTER BIT (Includes item 3a)
3a	3	P0050-045A	LOCK RING
4	3	P0051-004	HOLDER, Bit
5	3	P0050-010	BIT, Cutter

INTEGRAL BEARING SWIVEL CUTTER HEAD, 16" OD, FA44723F
16" OD SWIVEL

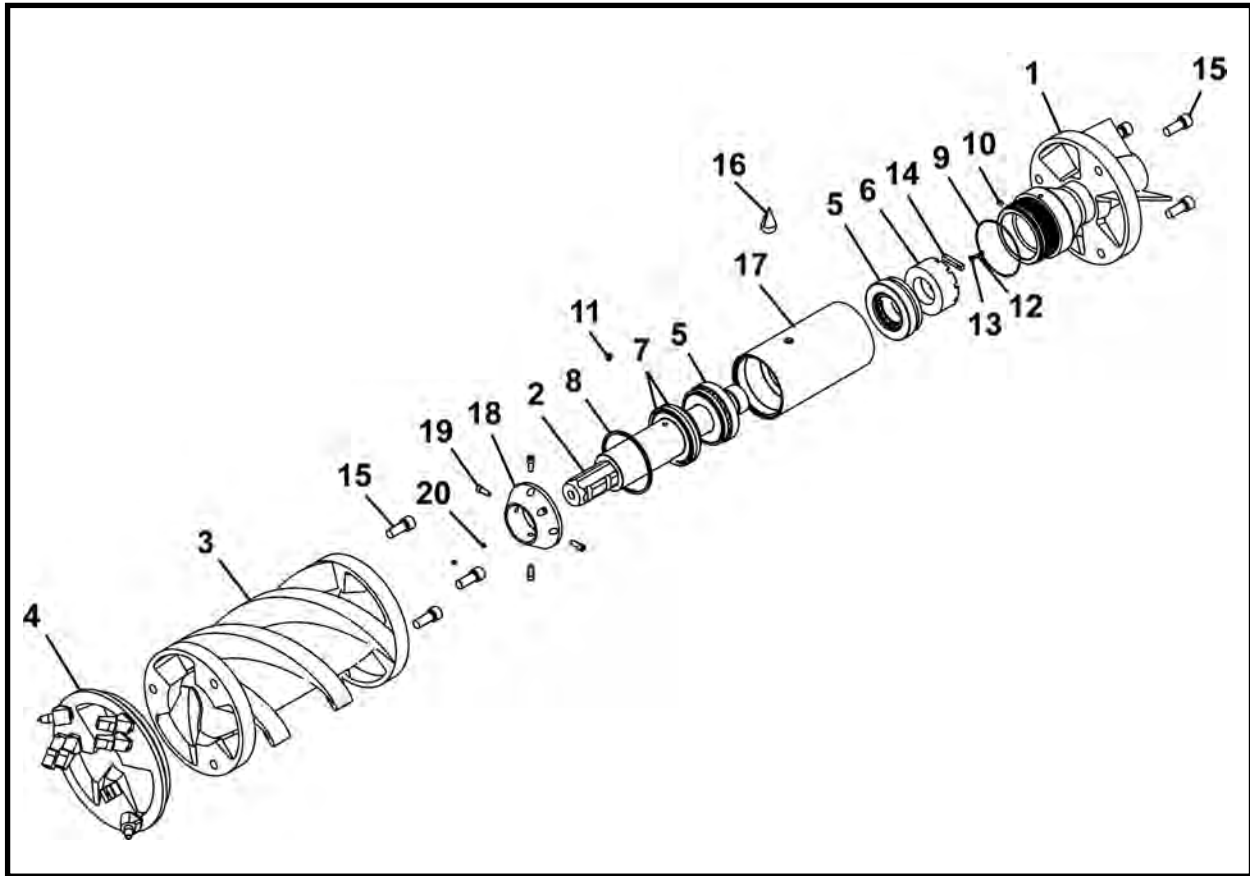


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA44723F	INTEGRAL BEARING SWIVEL CUTTER HEAD, 16" OD
1*	1	A44726A	AUGER SWIVEL CUTTER ASSEMBLY 16"
2	1	A44731A	CASING 16"
3	1	P0300-107	FITTING, 12MP-12MP
4	1	P0300-174	FITTING, 10MJ-12MP
5	4	P0085-325	ORING
6	1	P0300-140	FITTING, 10FJ-CAP
7	1	A40976P	ADAPTER, Fluid
8	1	A43807P	SHAFT, Hex End
9**	1	P0013-16-000	NUT, Nylock 1
10**	1	P0001-16-024	BOLT, 1 UNC x 6
11	1	P0126-039	GUN, Oil
12	1	P0063-016	FITTING, Grease Straight

* Refer to this section for parts information.

** Not Shown

AUGER SWIVEL CUTTER ASSEMBLY, 16" OD, A44726A
16" OD SWIVEL



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44726A	AUGER SWIVEL CUTTER ASSEMBLY, 16"
1	1	A44725A	AUGER, Rear
2	1	A46040P	SHAFT WITH HEX
3	1	A44727A	FLUTES, Auger
4*	1	A46126A	CUTTER BIT, Hard Ground
5	2	P0065-176	BEARING
6	1	A44745P	RING, Washer Support
7	1	P0065-177	SEAL, Grease
8	1	P0065-181	V-SEAL
9	1	P0085-261	ORING
10	1	P0300-026	FITTING, 04MP-HHP
11	1	P0300-176	FITTING, 06MB-HHP
12	1	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
13	1	P0040-004	WASHER, Hardened Flat 1/4
14	1	A42601P	KEY, Swivel Shaft
15	6	P0031-16-010	SCREW, Socket Head Cap 1 x 2.5
16	1 GAL	P0126-030	OIL, Mobil Gear 636
17	1	A44747P	HOUSING
18	1	A46065P	RETAINER, Seal
19	4	P0031-08-005	SCREW, Socket Head Cap 1/2 UNC x 1.25
20	2	P0300-144	FITTING, 02MP-HHP

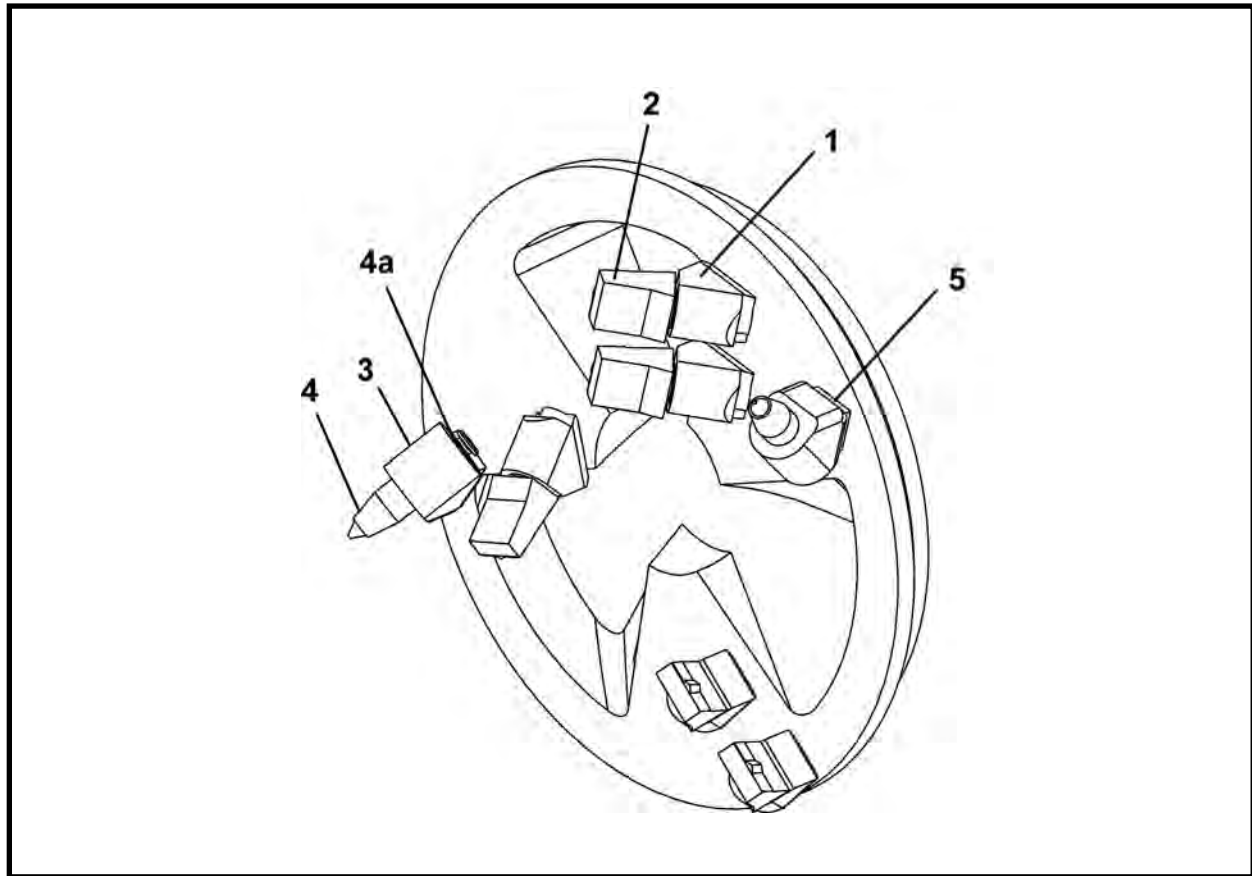
* Refer to this section for parts information.

GAL - Gallon

NOTE: 1) Lubricate ONLY with Mobil Gear 636 oil (Part number P0126-030)

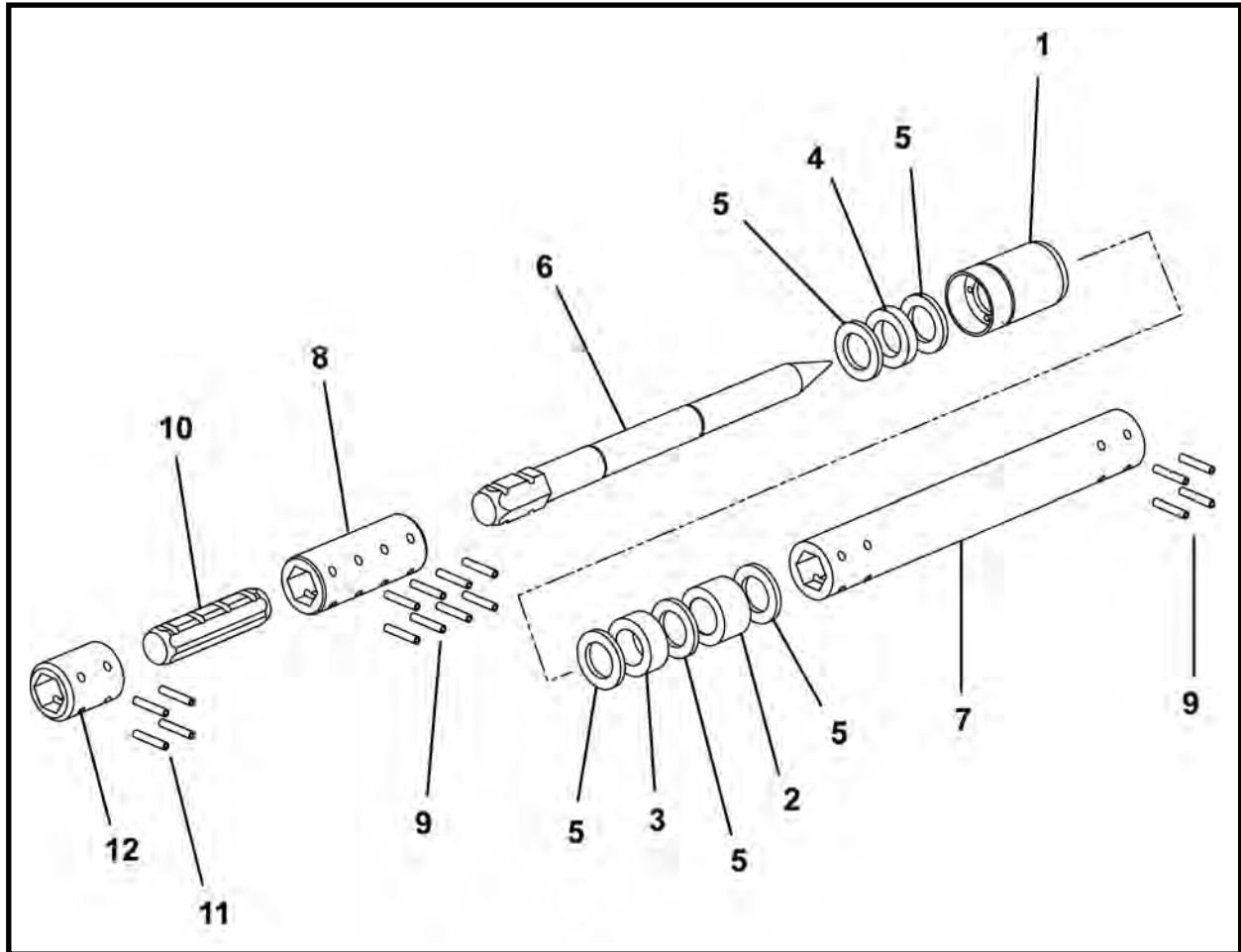
2) If components in this assembly do not match your auger swivel cutter assembly, contact your Aftermarket Support representative.

HARD GROUND CUTTER BIT, A46126A
16" OD SWIVEL



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A46126A	CUTTER BIT, Hard Ground 16"
1	5	P0051-004	HOLDER, Bit
2	5	P0050-010	BIT, Cutter
3	2	P0051-021	HOLDER, Bit
4	2	P0050-045	CUTTER BIT (Includes item4a)
4a	2	P0050-045A	LOCK RING
5	2	A43159P	PAD

PILOT GUIDE SWIVEL ASSEMBLY, FA41275F
3" HEX CONNECTION
CUTTER HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA41275F	PILOT GUIDE SWIVEL ASSEMBLY (Includes items 1 - 9)
1	1	A41280A	RETAINER, Thrust
2*	2	A41277P	RING, Wear 3"
3*	2	A41278P	RING, Wear 2"
4*	2	A41279P	RING, Wear 1"
5	5	A41276P	WASHER, Thrust 1/2"
6	1	A41326P	SHAFT, Guide
7	1	A41331P	TUBE, Hex Core Pilot - Female
8	1	A41325P	ADAPTER, Female
9	12	P0049-201	PIN, Spiral
10**	1	A41332P	STEM, Hex Connection
11**	4	P0049-201	PIN, Spiral
12**	1	A42352P	ADAPTER, Weld-On Auger

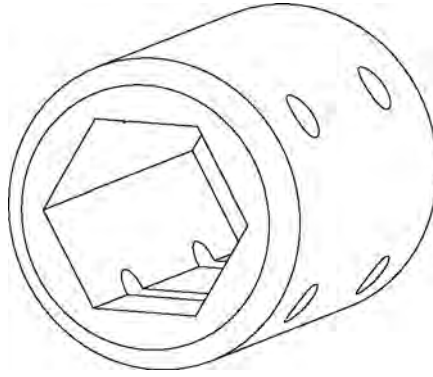
* Includes a spare item.

** Not included with FA41275F, Pilot Guide Swivel Assembly

NOTE:

1. Mounts to Cutter Head and Hex Core Pilot Tube.
2. Grease item 6, Guide Shaft before installing item 2, Wear Ring.
3. Item 12, Weld-On Auger Adapter is welded to auger boring cutter head.

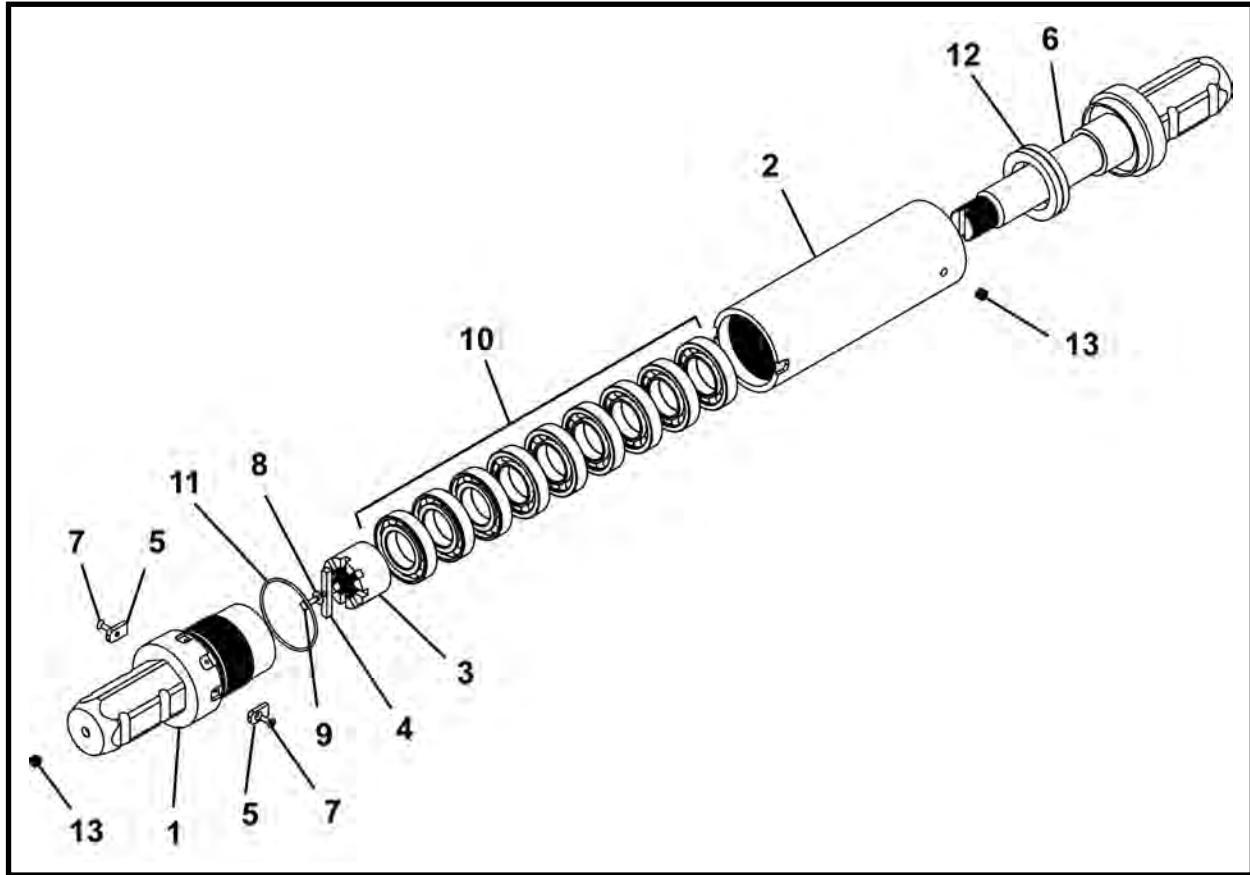
WELD ON AUGER ADAPTER, A42352P
3" ID HEX CONNECTION
AUGER BORING



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42352P	ADAPTER, Weld On Auger

NOTE: Adapter is welded to the auger boring cutter head to provide a connection for guide rod, A41326P.

GBM SWIVEL ASSEMBLY, FA46480F
3" HEX CONNECTION
CUTTER HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA46480F	ASSEMBLY, GBM SWIVEL
1	1	A46483P	COUPLING
2	1	A46484P	CASING
3	1	A46485P	LOCKNUT
4	1	A46486P	KEY, Inner
5	2	A46487P	KEY, Outer
6	1	A46482P	SHAFT
7	2	P0030-04-003	SCREW, Flat Head Cap 1/4 UNC x .75
8	1	P0040-004	WASHER, Hardened Flat 1/4
9	1	P0001-04-004	BOLT, Hex 1/4 UNC x 1
10*	9	P0065-262	BEARING, Thrust
11	1	P0085-241	ORING
12	1	P0065-193	SEAL, Shaft
13	2	P0300-026	PLUG, 04MP-HHP
14	1 QT	P0126-048	OIL, Mobil SHC 634

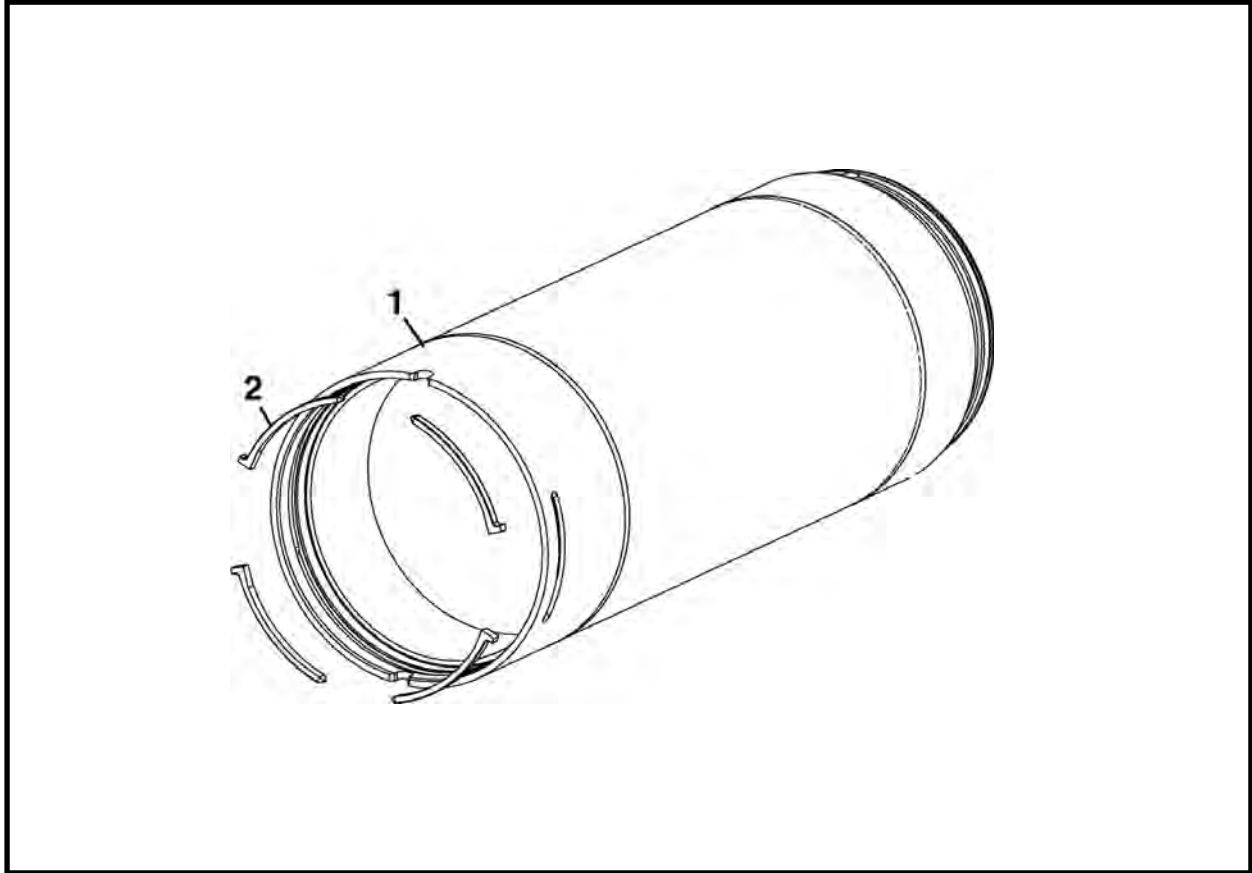
* Bearings MUST be assembled in correct orientation. Contact your Akkerman Aftermarket Support representative for more information.

QT - Quart

NOTE:

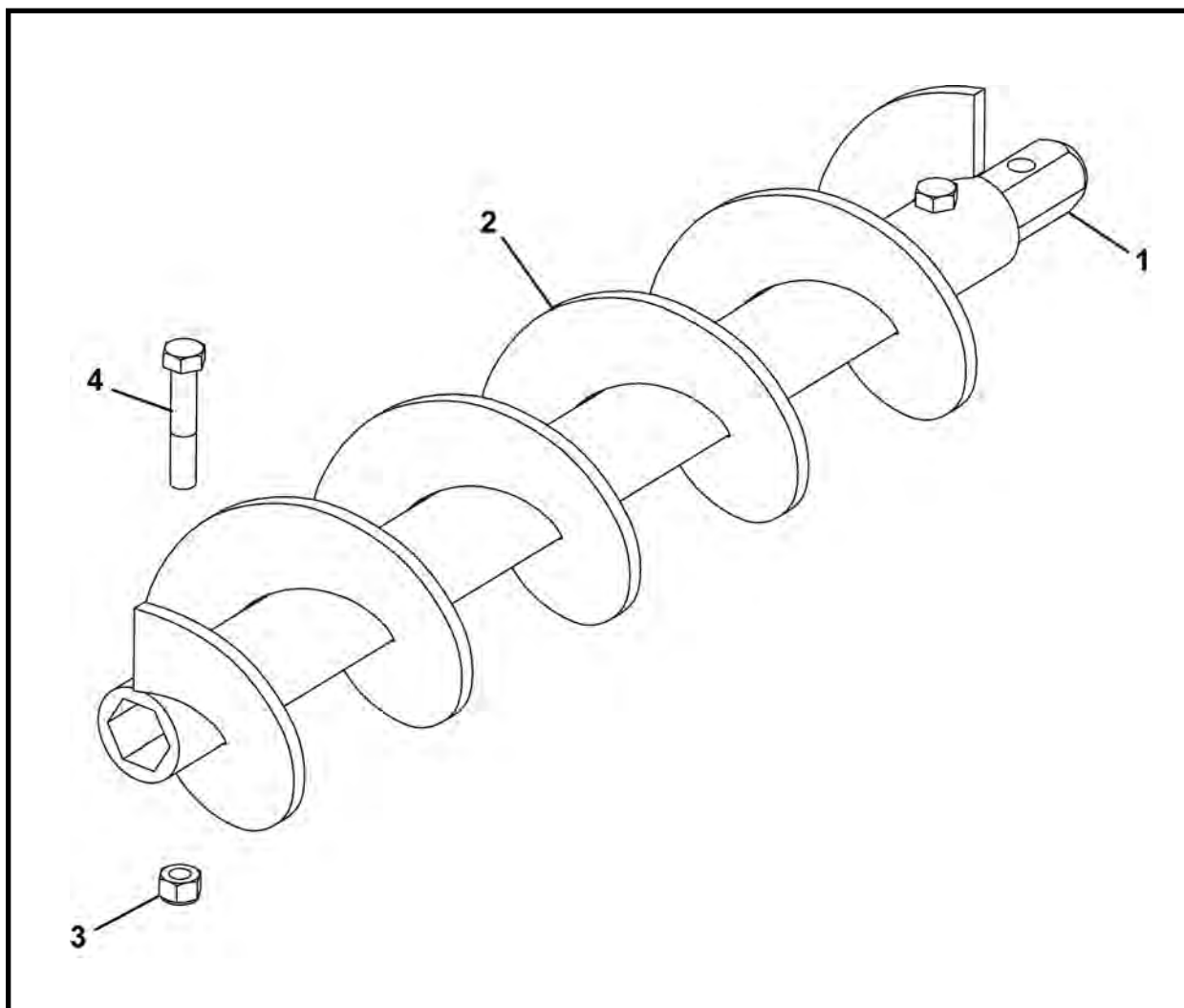
1. Mounts to Cutter Head and Pilot Tube Adapter, FA41403F.
2. Inspect for proper oil level and for contamination after each drive.
3. Inspect bearing assembly for end play after each drive.
4. Replace bearing oil with Mobil SHC 634 oil after every 120 hours of operation.

THRUST CASING



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA40301F	THRUST CASING 11" OD Casing
0.2	1	FA40341F	THRUST CASING 16" OD Casing, 12" VCP
1.1	1	FA40302F	WELDMENT, Thrust Casing 11" OD Casing
1.2	1	A40342A	WELDMENT, Thrust Casing 16" OD Casing
2.1	4	A40602P	CLIP, Retaining 11" OD Casing
2.2	4	A40643P	CLIP, Retaining 16" OD Casing

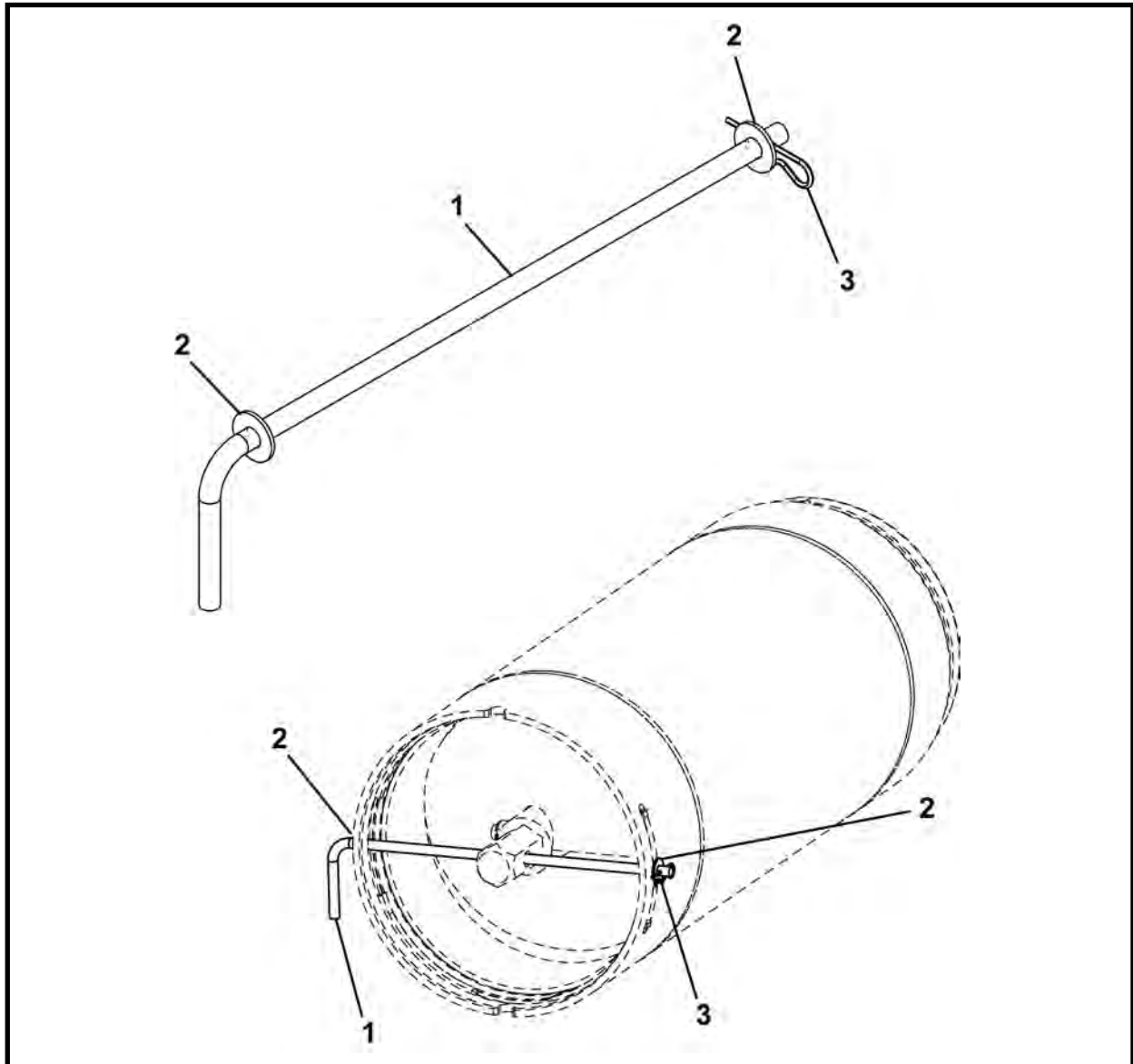
AUGER ASSEMBLY



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA42057F	AUGER ASSEMBLY, 11" OD Casing (9.25 OD x 1M)
0.2*	1	FA45405F	AUGER ASSEMBLY, 11" OD Casing (9.25 OD x 37.38")
0.3	1	FA42146F	AUGER ASSEMBLY, 16" OD Casing (14 OD x 1M)
0.4*	1	FA45406F	AUGER ASSEMBLY, 16" OD Casing (14 OD x 37.38")
1	1	A42135P	SHAFT, Hex End
2.1	1	A42058A	WELDMENT, Auger 9.25 OD
2.2	1	A45403A	WELDMENT, Auger 9.25 OD
2.3	1	A42148A	WELDMENT, Auger 14 OD
2.4	1	A45404A	WELDMENT, Auger 14 OD
3	2	P0013-12A-000	NUT, Nylok Lock 3/4
4	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4

* This auger is used when installing the reaming head assembly. The hex connector clearance grows in length to a point where a short auger is required to line up the augers to the casings. One short auger may be required (depending on soil conditions, thrust) every 100 ft of casing installation.

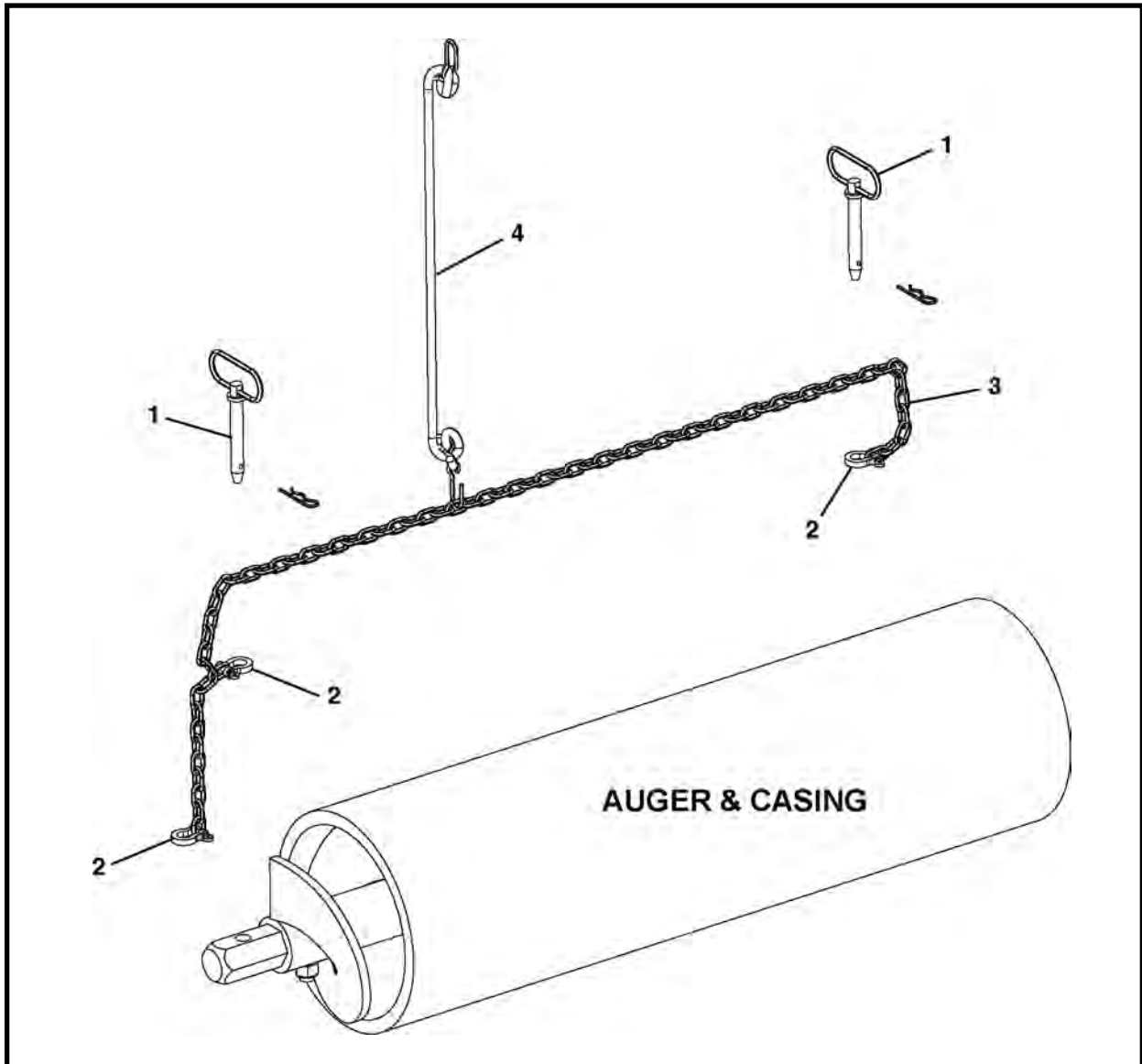
CASING AUGER PIN, A41921A
CASINGS



ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A41921A	CASING AUGER PIN
1	1	A41922P	PIN, Auger
2	2	P0040-008	WASHER, Hardened Flat 1/2
3	1	P0090-002	CLIP, Hitch Pin 1/8

* Item 1, Pin, goes through clip retaining slot in casing, through hole in auger stem, through clip retaining slot in casing and secured in place with item 2, hardened flat washer and item 3, hitch pin clip.

SAFETY CHAIN ASSEMBLY, A42215A CASINGS

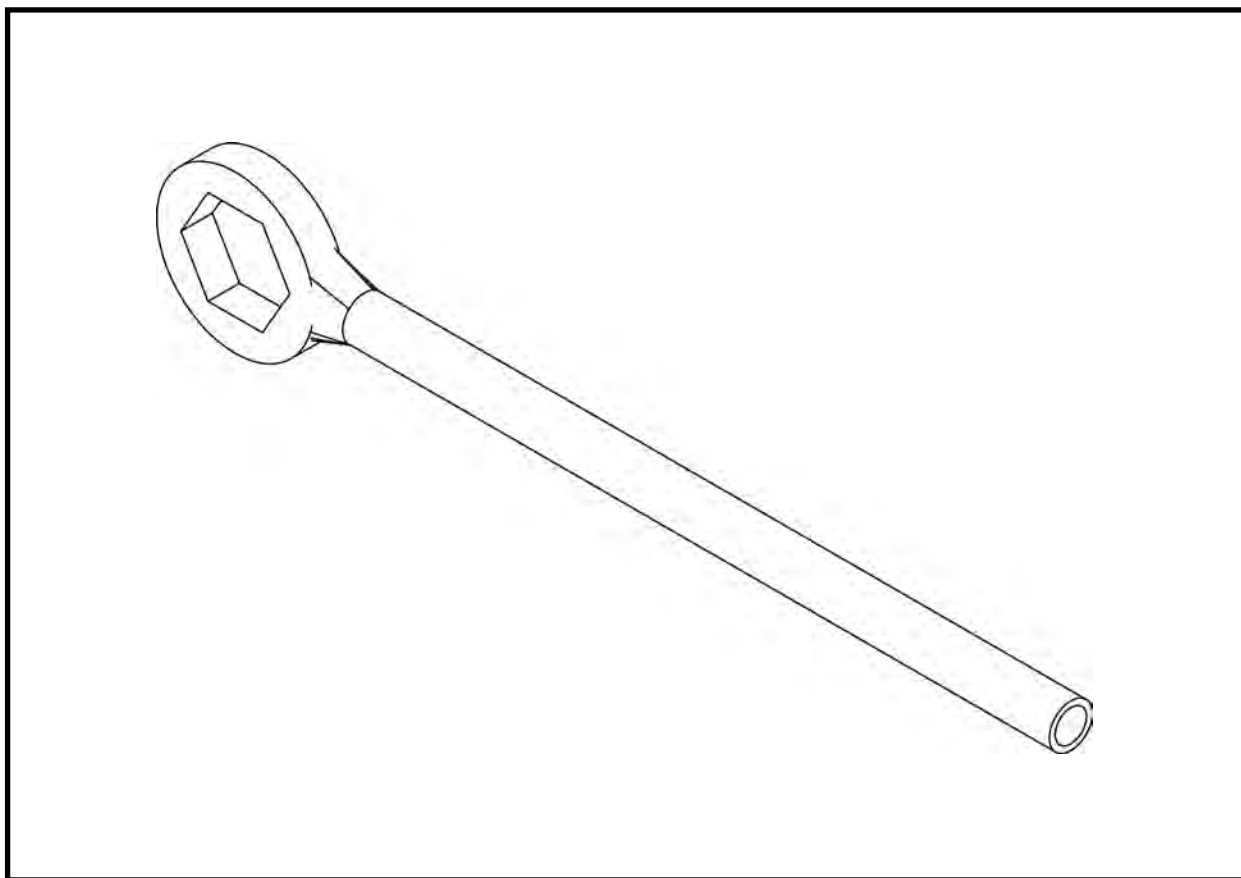


ITEM	QTY	PART NO.	DESCRIPTION
0*	1	A42215A	SAFETY CHAIN ASSEMBLY
1	2	P0090-010	PIN, Hitch
2	3	P0091-003	SHACKLE, Anchor
3	64 LI	P0094-004	CHAIN
4	1	003060A00	TIE DOWN 20"

LI - Linear Inch

* Item 1, Pin, goes through Item 2, Shackle, and is placed in holes in auger assembly, and then pinned. Adjust position of Item 2, Shackle, to proper link for length between holes in auger.

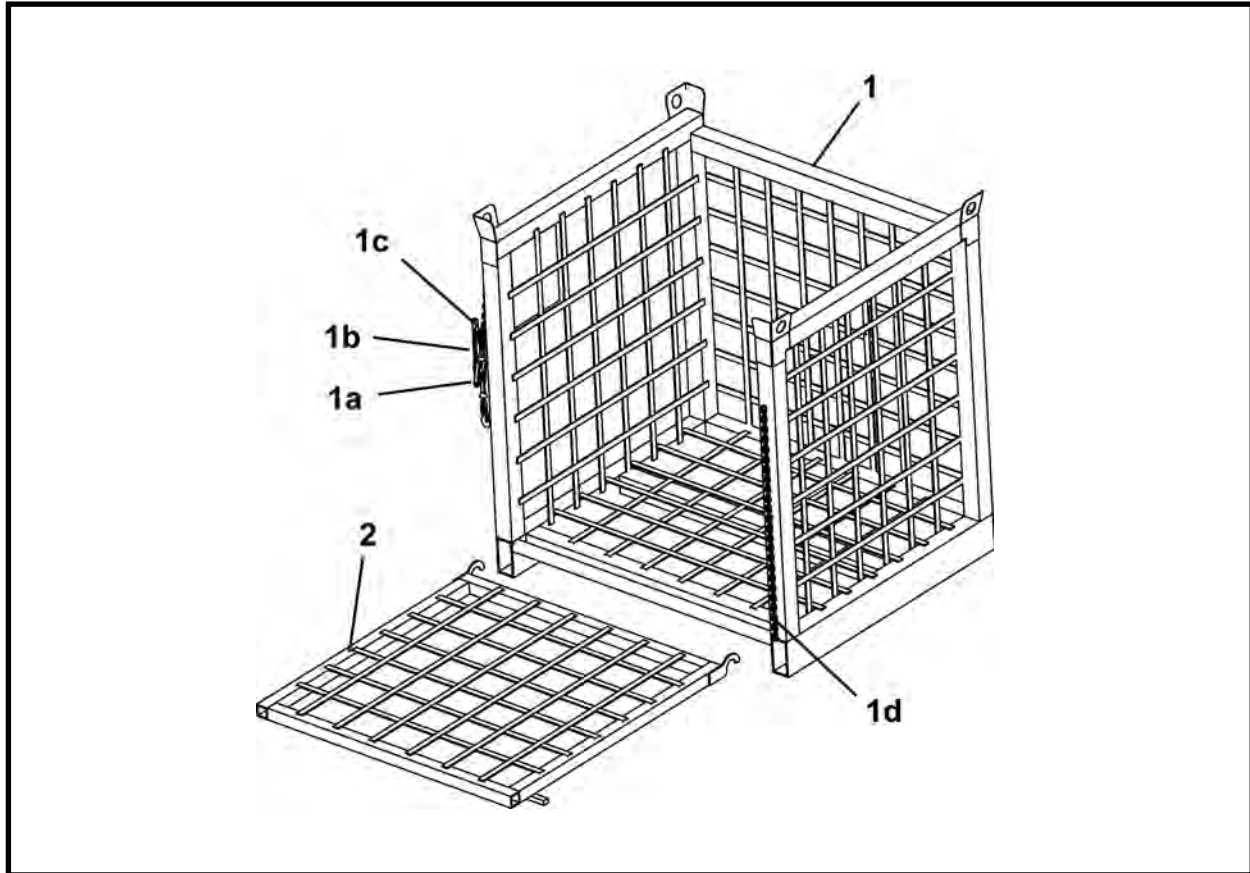
AUGER HEX WRENCH



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	A45622A	AUGER HEX WRENCH 2"
0.2	1	A44123A	AUGER HEX WRENCH 3"

Note: This wrench is used to assist in aligning the auger hex connections during casing installation.

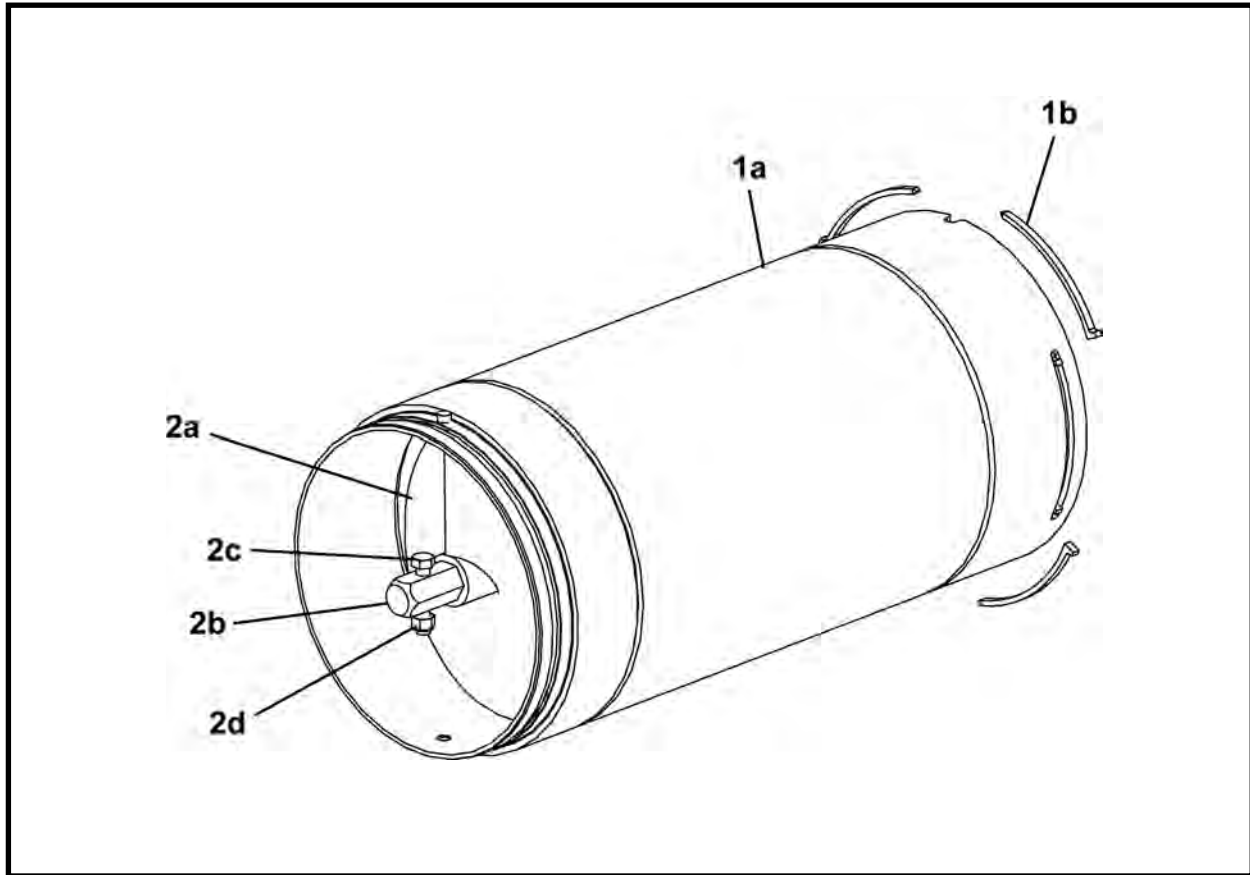
BASKET ASSEMBLY, FA43343F
THRUST CASING



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43343F	ASSEMBLY, Basket
1	1	A43341A	BASKET (Includes 1a - 1d)
1a	1	P0094-012	LOAD BINDER, 1/4
1b	1	P0098-009	LINK, Hammerloc 9/32
1c	1	A26092P	RETAINER, Load Binder
1d	40 LI	P0094-002	CHAIN 9/32 x 40
2	1	A43342A	DOOR

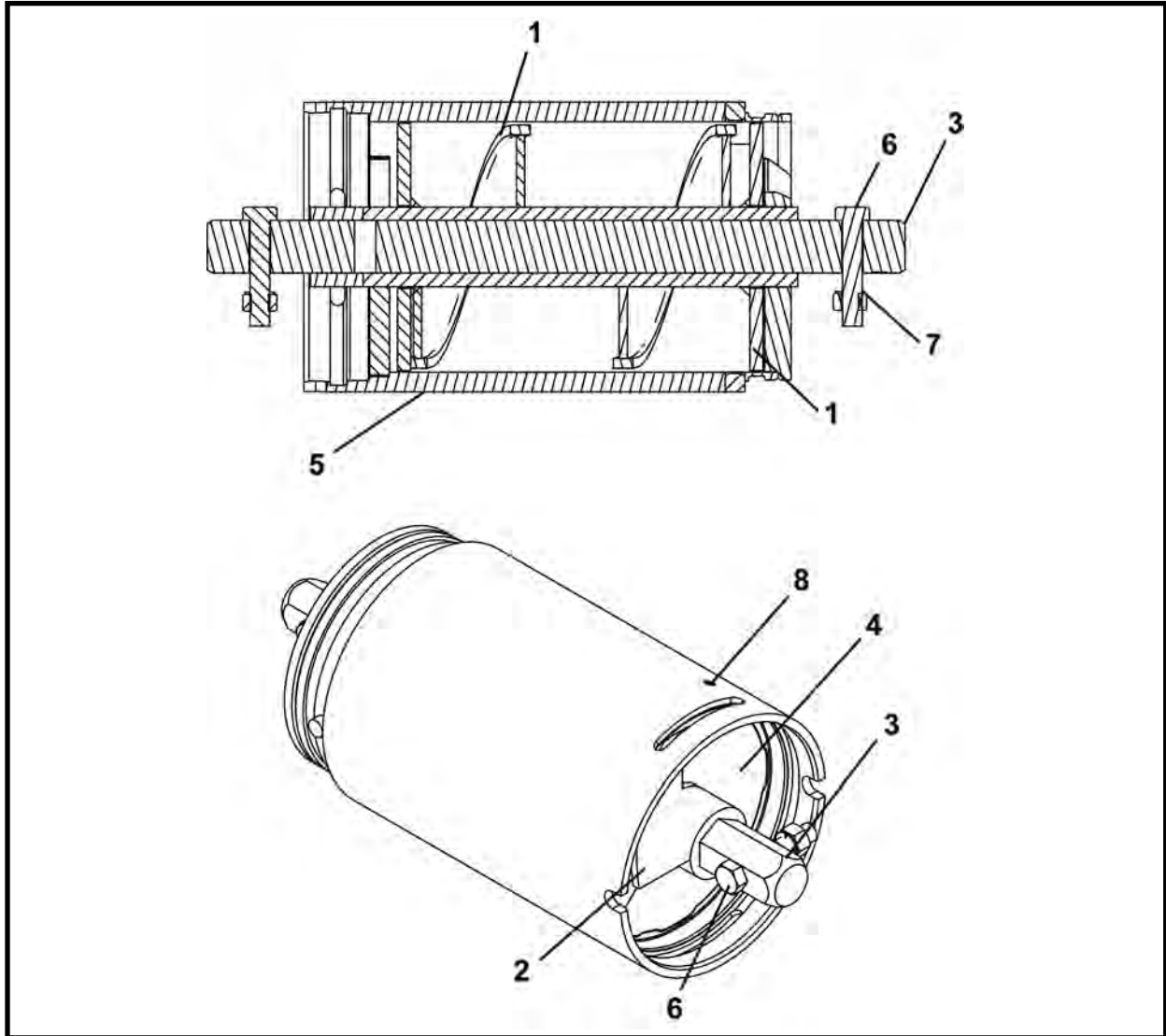
LI - Linear Inch

20" THRUST CASING w/AUGER ASSEMBLY, FA42813F



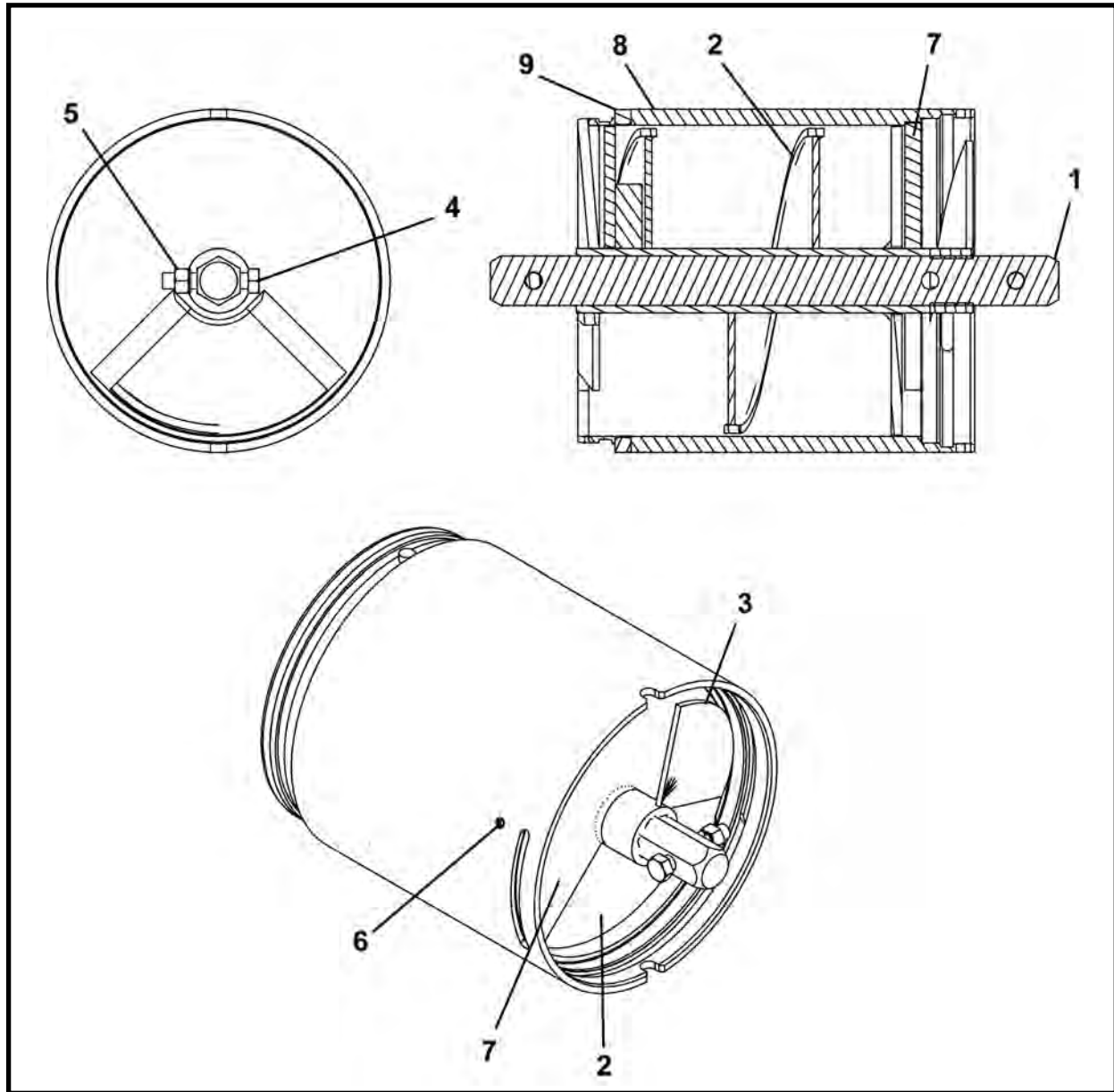
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42813F	20" THRUST CASING w/AUGER ASSEMBLY
1	1	A42804A	THRUST CASING (Includes item 1a - 1b)
1a	1	A42805A	WELDMENT, Thrust Casing 20" OD Casing
1b	4	A42809P	CLIP, Retaining 20" OD Casing
2	1	A42810A	ASSEMBLY, Auger (Includes items 2a - 2d)
2a	1	A42811A	WELDMENT, Auger 18 OD
2b	1	A42135P	CONNECTOR, Hex 2"
2c	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4
2d	2	P0013-12A-000	NUT, Nylock Lock 3/4

11" OD CONTROLLER FLOW AUGER ASSEMBLY, FA40378F
REAMING HEAD / CUTTER HEAD



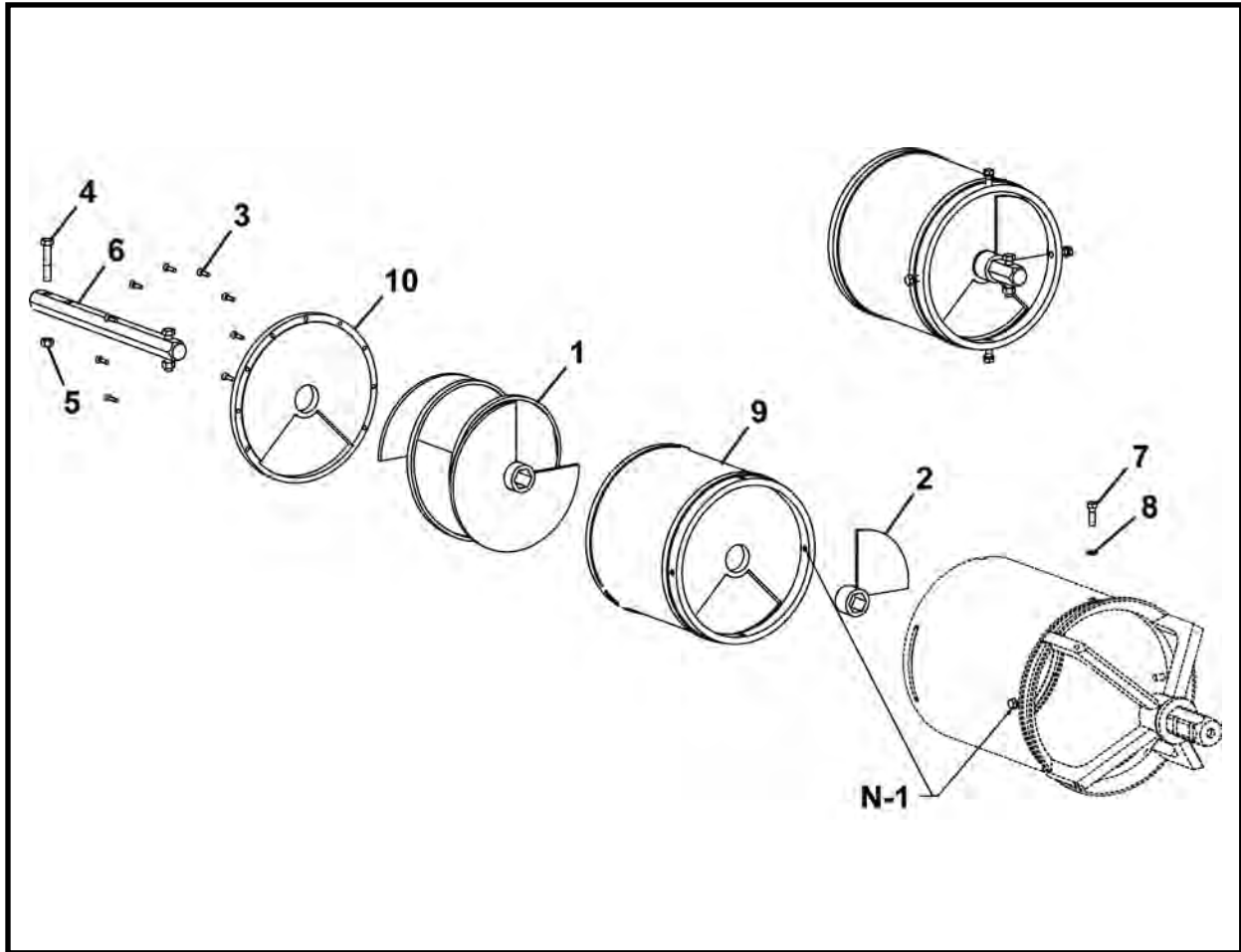
ITEM	QTY	PART NO.	DESCRIPTION
0*	1	FA40378F	CONTROLLED FLOW AUGER ASSEMBLY, 11" OD
1	1	A40316A	AUGER, Controlled Flow
2	1	A40317A	WIPER
3	1	A40907P	STEM
4	2	A40338P	PLATE
5	1	A40399A	WELDMENT, Plate & Casing
6	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4
7	2	P0013-12A-000	NUT, Nylok Lock 3/4
8	2	P0033-08-020	SCREW, Socket Set 1/2 UNC x 1.25

16" OD CONTROLLED FLOW AUGER ASSEMBLY, FA45188F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45188F	CONTROLLED FLOW AUGER ASSEMBLY, 16" OD
1	1	A40907P	STEM
2	1	A41384A	AUGER, Controlled Flow
3	1	A41385A	WIPER
4	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4
5	2	P0013-12A-000	NUT, Nylok Lock 3/4
6	2	P0033-08-012	SCREW, Socket Set 1/2 UNC x .75
7	1	A45192P	PLATE
8	1	A45189A	CASING
9	2	A40601P	PIN, Thrust Tube

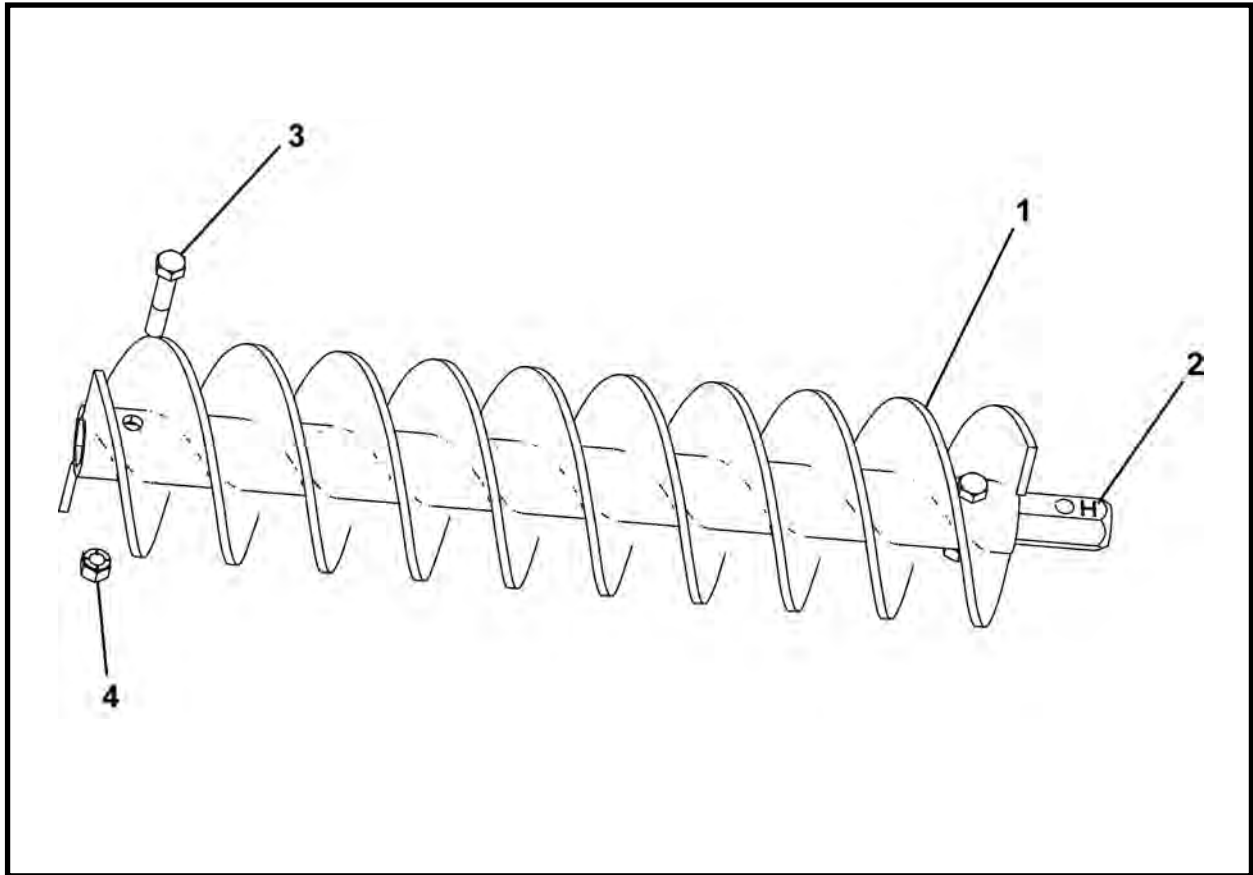
18" OD CONTROLLED FLOW AUGER ASSEMBLY, FA41390F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA41390F	18" OD CONTROLLED FLOW AUGER ASSEMBLY
1	1	A41391A	AUGER, Water Tight
2	1	A41392A	WIPER
3	9	P0030-06-006	SCREW, Flat Head Cap 3/8 x 1.5
4	2	P0001-12-016	BOLT, 3/4 UNC x 4
5	2	P0013-12A-000	NUT, Nylok Lock 3/4
6	1	A40907P	STEM
7	4	P0001-10-008	BOLT, 5/8 UNC x 2
8	4	P0045-010	WASHER, Lock 5/8
9	1	A41393A	CASING
10	1	A41398P	PLATE, Bolt On

N-1 - Must drill holes for mounting into reaming head aligned with casing holes.

RESTRICTED FLOW (DOUBLE PITCHED) AUGER
1 METER CASING

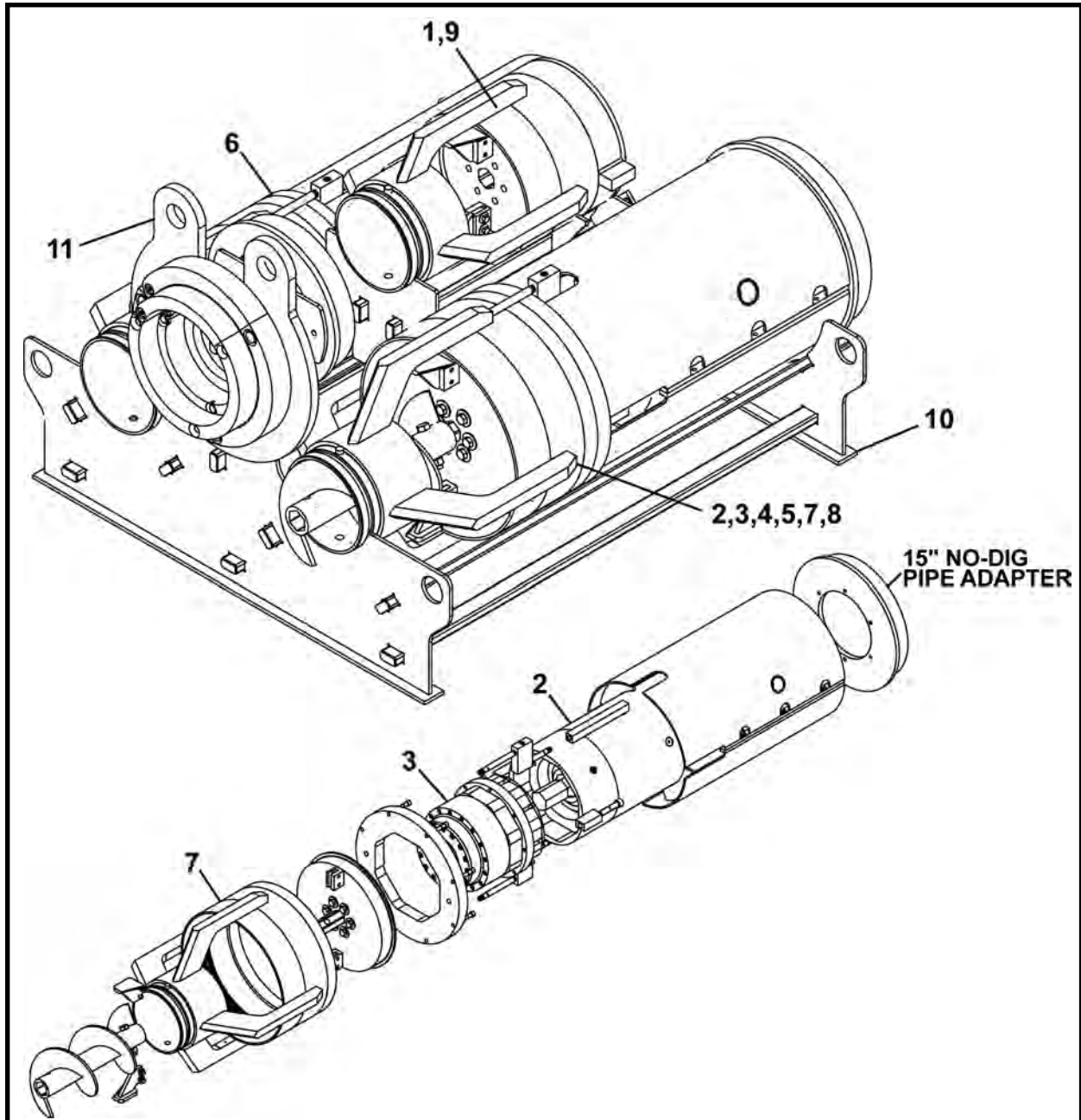


ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA42060F	AUGER, Restricted Flow 9.25" OD
0.2	1	FA45309F	AUGER, Restricted Flow 14" OD
1.1	1	A42061A	AUGER, Double
1.2	1	A45322A	AUGER, Double
2	1	A42135P	CONNECTOR, Hex 2"
3	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4
4	2	P0013-12A-000	NUT, Nylok Lock 3/4

NOTES

POWERED REAMING HEAD ASSEMBLY, FA45200F

POWERED REAMING HEAD (SN FA45200F-2 & 3)

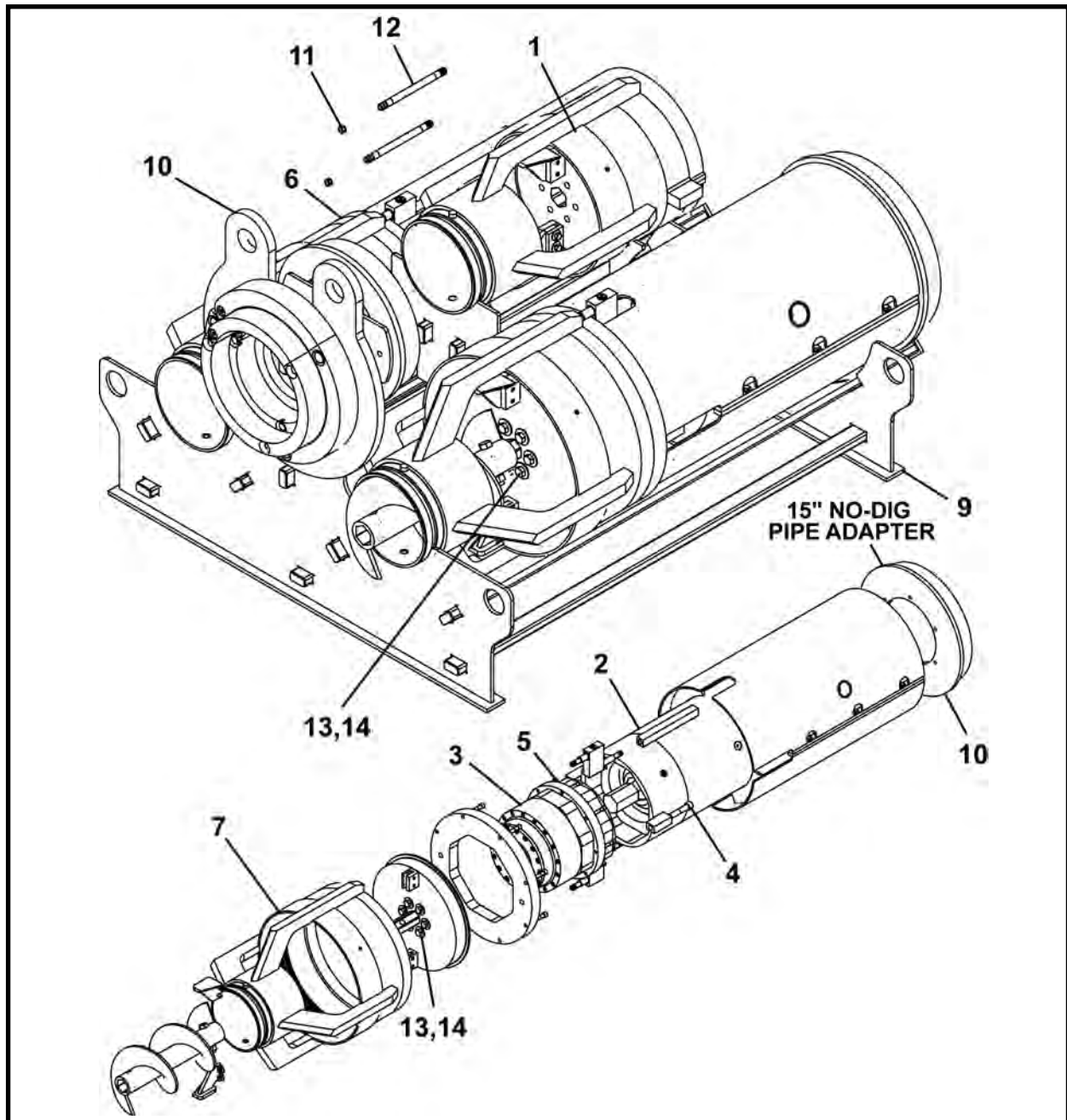


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45200F	POWERED REAMING HEAD ASSEMBLY
1**	1	A45201A	ASSEMBLY, Front Section PRH
2**	1	A45202A	ASSEMBLY, Rear Section PRH
3**	1	A45203A	ASSEMBLY, PRH Bearing
4	2	P0031-12-015	SCREW, Socket Head Cap 3/4 UNC x 3.5
5	8	P0031-07-007	SCREW, Socket Head Cap 7/16 UNC x 1.75
6	1	A45265A	KIT, 11" - 16" Increase
7	1	A45266A	KIT, 11" - 20" Increase
8*	1	A45306A	ASSEMBLY, PRH Hydraulics
9	1	A45461A	EXTENSION, 14" PRH
10	1	A45464A	STAND, PRH Shipping
11**	1	FA45428F	ADAPTER, Pipe, 10 - 12 - 15" No-Dig

* Refer to section 6, Hydraulics for parts information.

** Refer to this section for parts information.

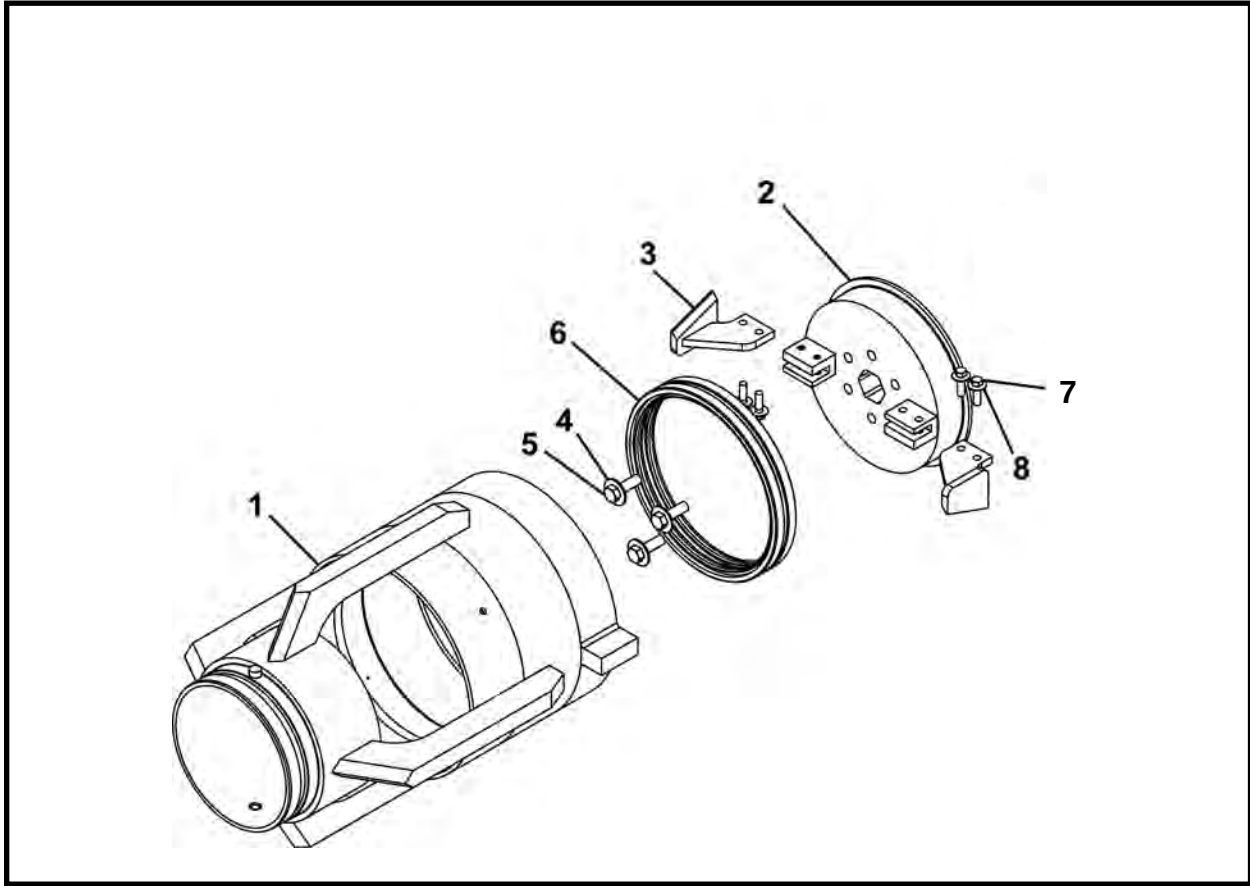
POWERED REAMING HEAD ASSEMBLY, FA45200F
POWERED REAMING HEAD (SN FA45200F-4 & 5)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45200F	POWERED REAMING HEAD ASSEMBLY
1**	1	A45201A	ASSEMBLY, Front Section PRH
2**	1	A45202A	ASSEMBLY, Rear Section PRH
3**	1	A45203A	ASSEMBLY, PRH Bearing
4	2	P0031-12-015	SCREW, Socket Head Cap 3/4 UNC x 3.5
5	8	P0031-07-007	SCREW, Socket Head Cap 7/16 UNC x 1.75
6	1	A45265A	KIT, 11" - 16" Increase
7	1	A45266A	KIT, 11" - 20" Increase
8*	1	A45306A	ASSEMBLY, PRH Hydraulics
9	1	A45464A	STAND, PRH Shipping
10**	1	FA45428F	ADAPTER, Pipe, 10 - 12 - 15" No-Dig
11	8	P0085-015	ORING
12.1	2	A45230A	TUBE, Jetting (SN FA45200F-4)
12.2	2	A46517P	TUBE, Jetting (SN FA45200F-5 & After)
13	6	P0001-10-008	BOLT, 5/8 UNC x 2
14	6	P0040-010	WASHER, Hardened Flat 5/8

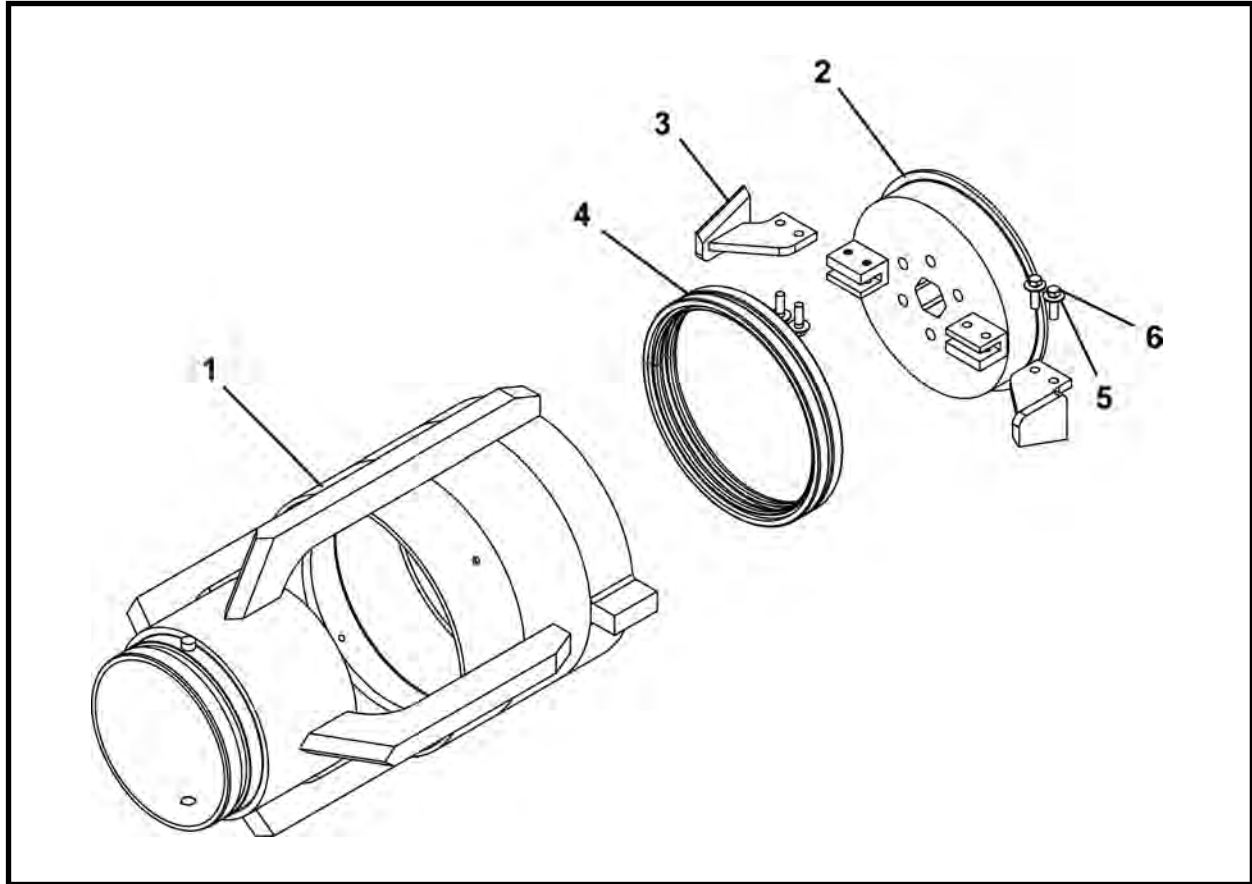
* Refer to section 6, Hydraulics for parts information. ** Refer to this section for parts information.

PRH 11" - 14" FRONT SECTION ASSEMBLY, A45201A
POWERED REAMING HEAD (SN FA45200F-1 THRU 4)



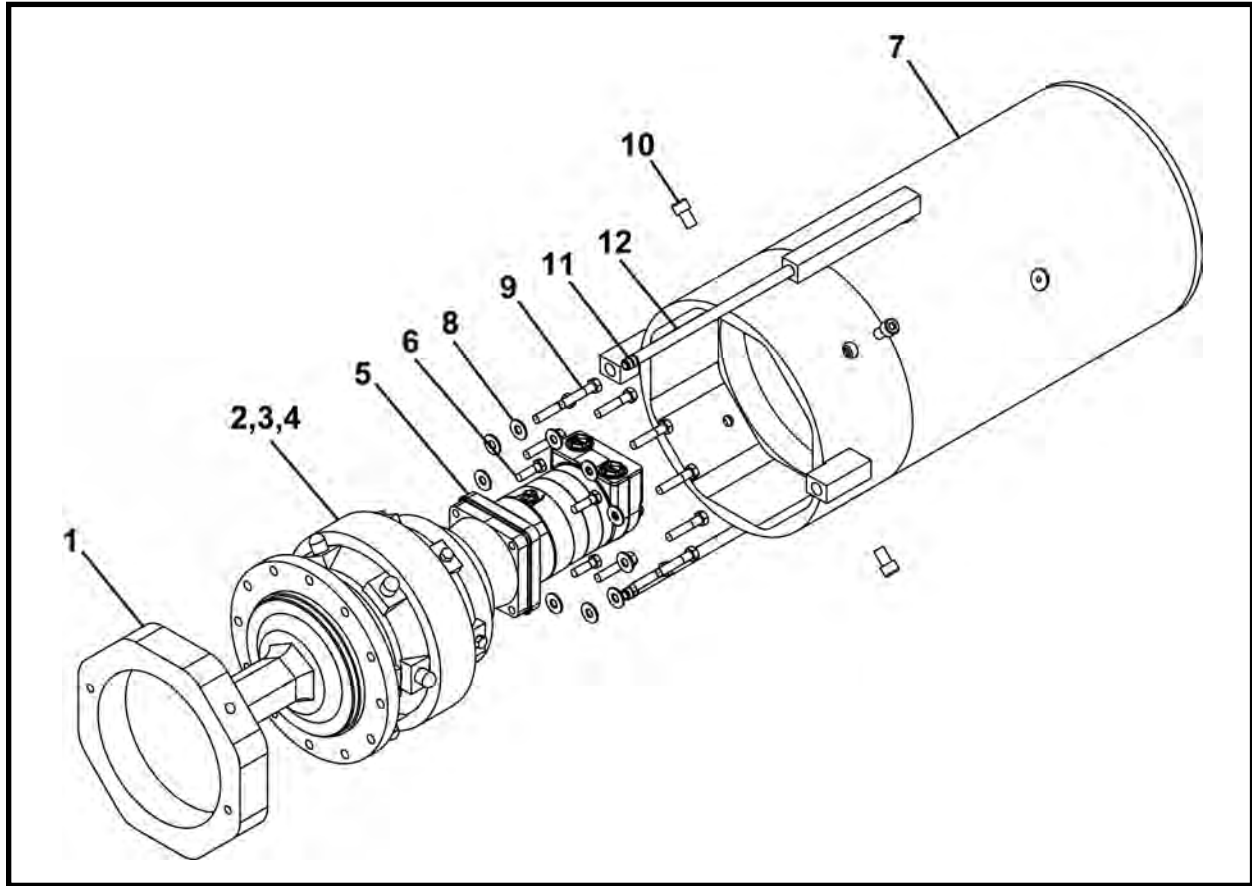
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45201A	11" - 14" PRH FRONT SECTION ASSEMBLY
1	1	A45204A	WELDMENT, Front Section
2	1	A45205A	WELDMENT, Cutterhead
3	2	A45235A	WELDMENT, Periphery Cutter
4	6	P0040-010	WASHER, Hardened Flat 5/8
5	6	P0001-10-008	BOLT, Hex 5/8 UNC x 2
6	2	P0080-035	SEAL
7	4	P0001-07-006	BOLT, Hex 7/16 UNC x 1.5
8	4	P0040-007	WASHER, Hardened Flat 7/16

PRH 11" - 14" FRONT SECTION ASSEMBLY, A45201A
POWERED REAMING HEAD (SN FA45200F-5)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45201A	11" - 14" PRH FRONT SECTION ASSEMBLY
1	1	A45204A	WELDMENT, Front Section
2	1	A45205A	WELDMENT, Cutterhead
3	2	A45235A	WELDMENT, Periphery Cutter
4	2	P0080-035	SEAL
5	4	P0040-007	WASHER, Hardened Flat 7/16
6	4	P0001-07-006	BOLT, 7/16 UNC x 1.5

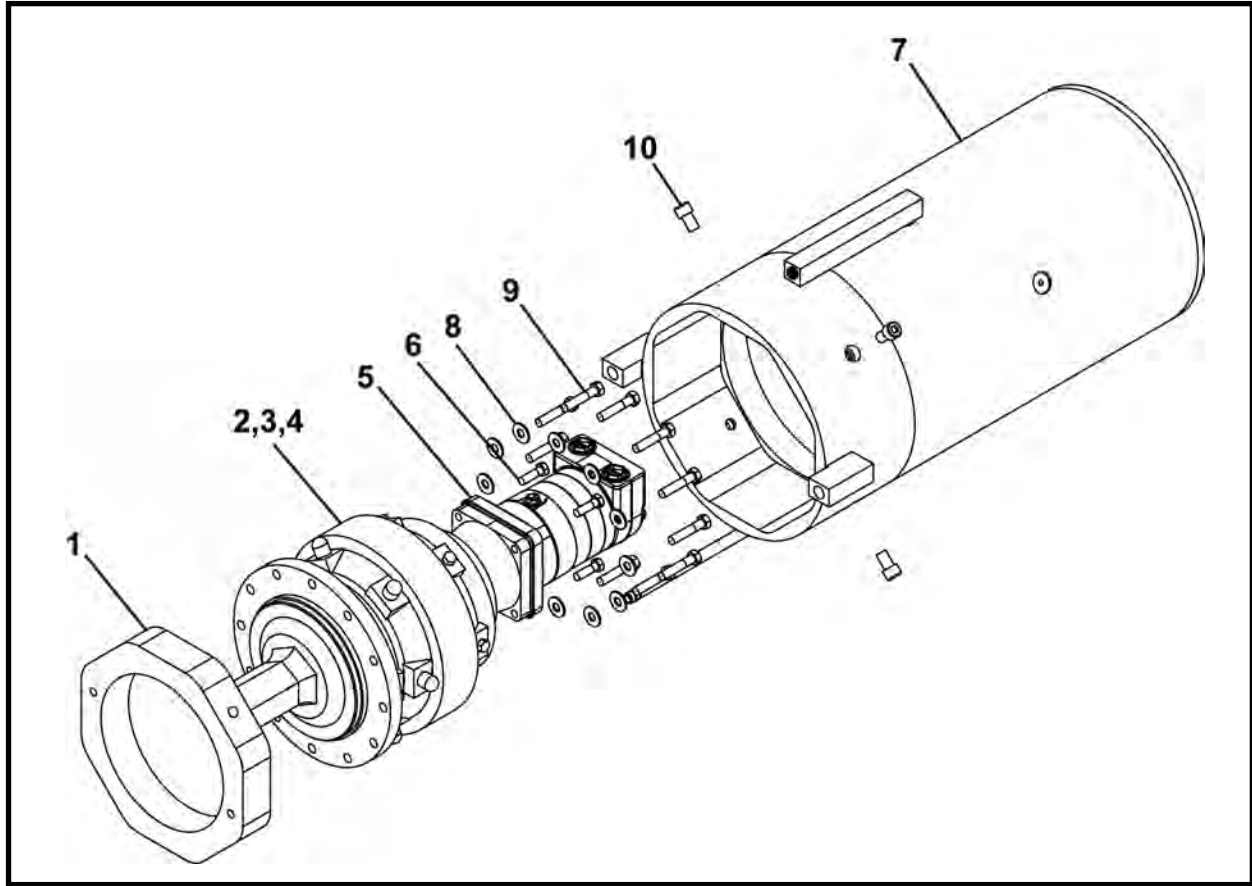
PRH REAR SECTION ASSEMBLY, A45202A
POWERED REAMING HEAD (FA45200F-1 THRU 3)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45202A	PRH REAR SECTION ASSEMBLY
1	1	A45225P	PLATE, Gearbox Mount
2	1	P0097-033	GEARBOX
3	1	P0097-033A	MOUNT, Tooth
4	1	P0097-33B	KIT, Adapter
5*	1	P0304-172	MOTOR
6	4	PM12A-1.25-040	BOLT, Metric
7	1	A45207A	WELDMENT, 11" - 14" Rear Can
8	12	P0040-008	WASHER, Hardened Flat 1/2
9	12	P0001-08-008	BOLT, 1/2 UNC x 2
10	4	P0031-10-004	SCREW, Socket Head Cap 5/8 UNC x 1
11	2	A45230P	TUBE, Jetting
12	8	P0085-015	ORING

* Refer to Section 8, Motors for parts information.

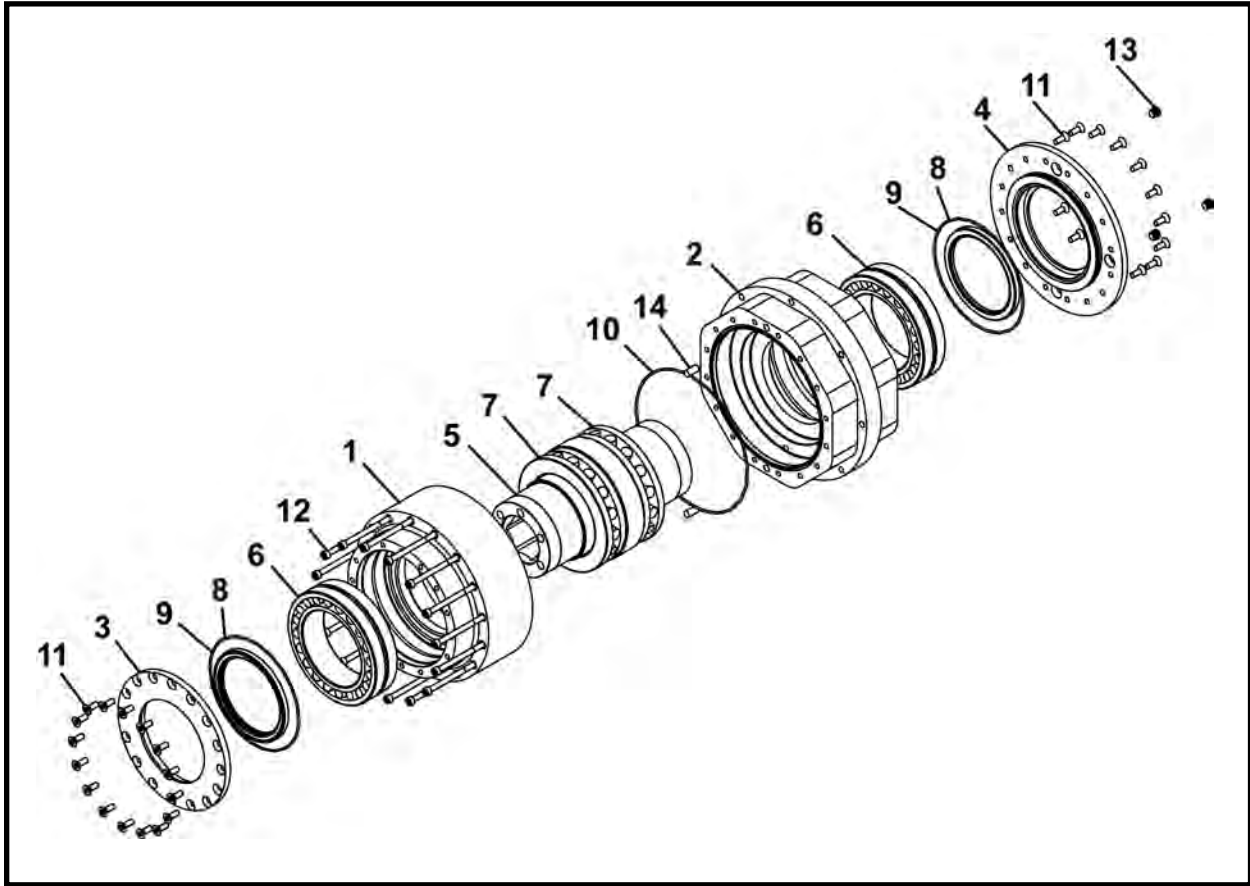
PRH REAR SECTION ASSEMBLY, A45202A
POWERED REAMING HEAD (SN FA45200F-4 & 5)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45202A	PRH REAR SECTION ASSEMBLY
1	1	A45225P	PLATE, Gearbox Mount
2	1	P0097-033	GEARBOX
3	1	P0097-033A	MOUNT, Tooth
4	1	P0097-33B	KIT, Adapter
5*	1	P0304-172	MOTOR
6	4	PM12A-1.25-040	BOLT, Metric
7	1	A45207A	WELDMENT, 11" - 14" Rear Can
8	12	P0040-008	WASHER, Hardened Flat 1/2
9	12	P0001-08-008	BOLT, 1/2 UNC x 2
10	4	P0031-10-004	SCREW, Socket Head Cap 5/8 UNC x 1

* Refer to Section 8, Motors for parts information.

PRH BEARING ASSEMBLY, A45203A
POWERED REAMING HEAD (FA45200F-1 THRU 5)

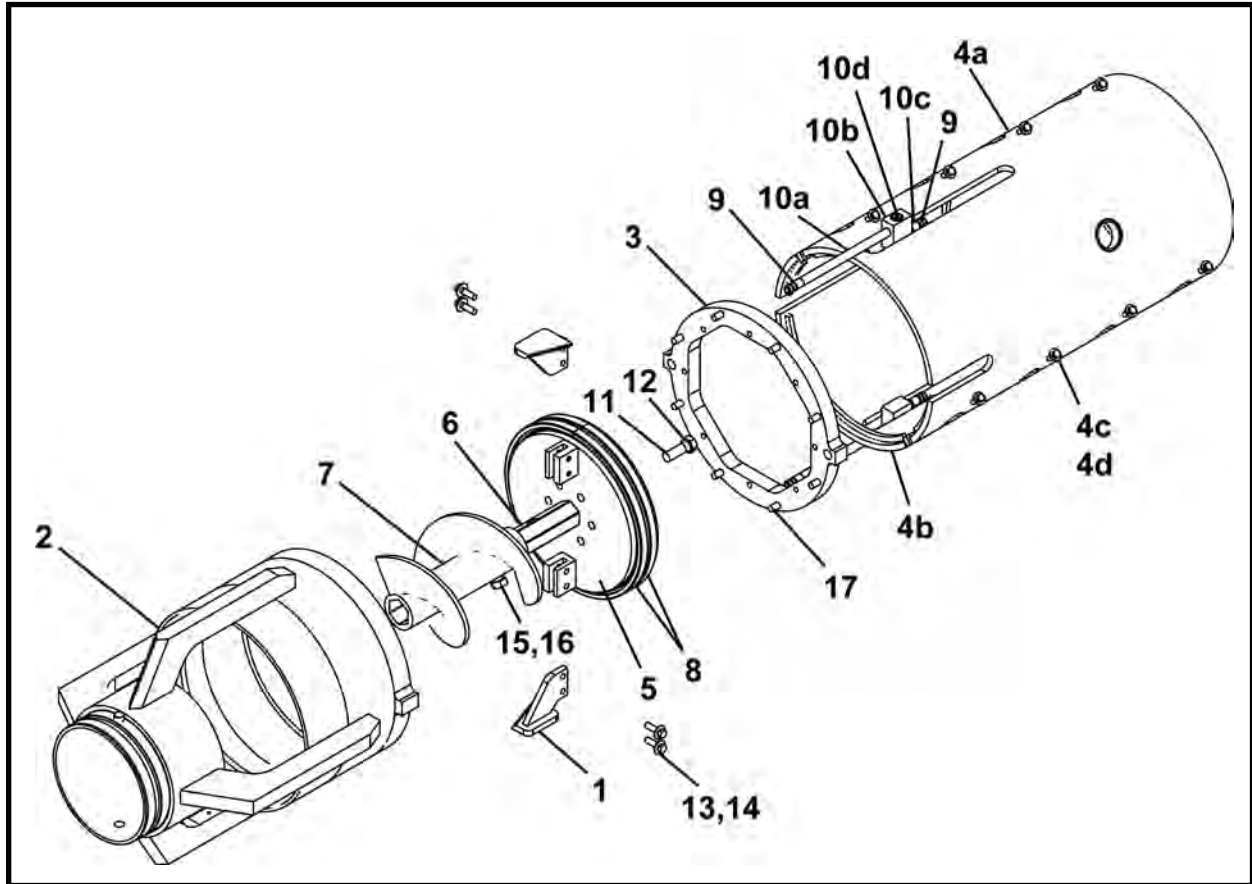


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45203A	PRH BEARING ASSEMBLY
1	1	A45218P	COVER, Front Bearing
2	1	A45219P	COVER, Rear Bearing
3	1	A45220P	RETAINER, Front Seal
4	1	A45221P	RETAINER, Rear Seal
5	1	A45222P	SHAFT
6	2	P0065-162	BEARING, Spherical Roller
7	2	P0065-160	BEARING, Cylindrical Roller
8	2	P0085-269	ORING
9	2	P0080-027	SEAL, Lip
10	1	P0085-276	ORING
11	32	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
12	16	P0031-06-018	SCREW, Socket Head Cap 3/8 UNC x 4.5
13	3	P0300-176	FITTING, 06MB-HHP
14	2	P0037-064	PIN, Dowel
15	3 QT	P0126-014	LUBE, Mobilgear 630

QT - Quart

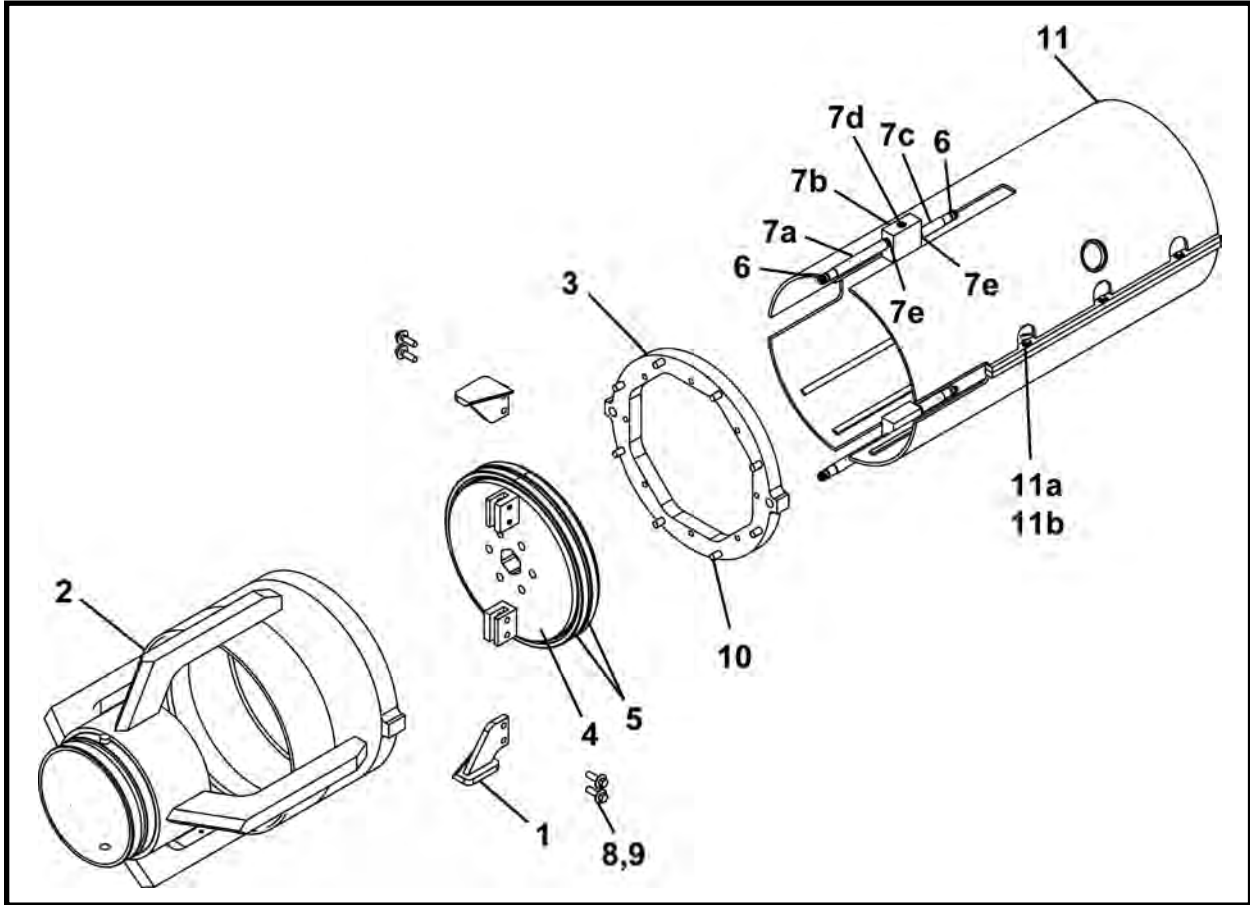
NOTES

11" - 16" INCREASE KIT, A45265A
POWERED REAMING HEAD (SN FA45200F-1)



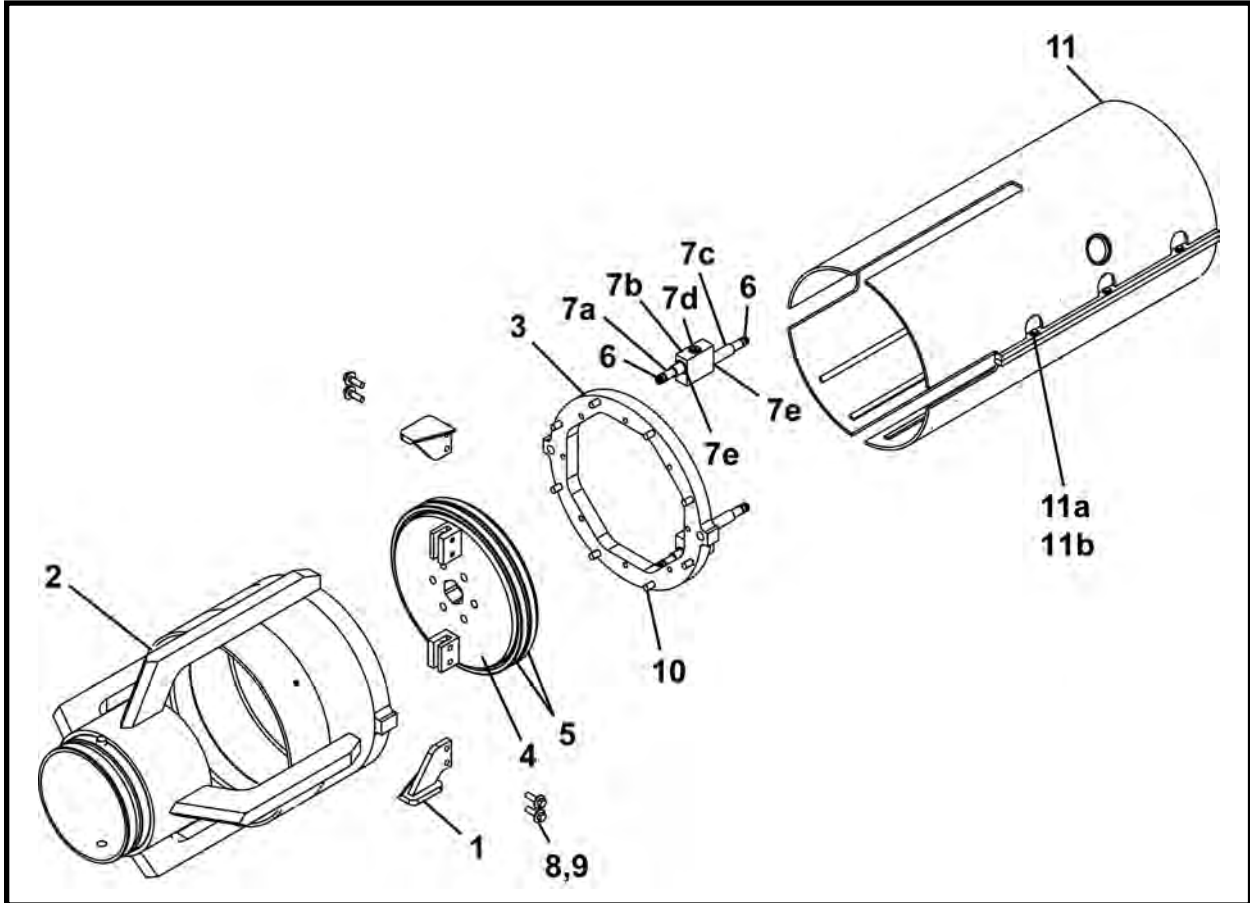
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45265A	11" - 16" INCREASE KIT
1	2	A45235A	WELDMENT, Periphery Cutter
2	1	A45238A	HEAD
3	1	A45257P	ADAPTER, Bearing
4	1	A45247A	ASSEMBLY, Bolt On Skin (Includes items 4a - 4d)
4a	1	A45248A	WELDMENT, 16" Bolt On Skin Drilled
4b	1	A45277A	WELDMENT, 16" Bolt On Skin Tapped
4c	8	P0001-06-004	BOLT, 3/8 UNC x 1
4d	8	P0040-006	WASHER, Hardened Flat 3/8
5	1	A45258A	WELDMENT, CUTTERHEAD
6	1	A45260P	CONNECTOR, Hex
7	1	A45261A	AUGER, Coupling
8	2	P0065-254	SEAL
9	8	P0085-015	ORING
10	2	A45303A	BLOCK, Jetting (Includes items 7a - 7d)
10a	1	A45297P	TUBE
10b	1	A45302P	BLOCK, Offset
10c	1	A45457P	TUBE, Small Jetting
10d	1	P0300-015	FITTING, 06MP-HHP
11	1	P0001-12-009	BOLT, 3/4 UNC x 2.25
12	1	P0045-012	WASHER, Lock 3/4
13	4	P0040-007	WASHER, Hardened Flat 7/16
14	4	P0001-07-006	BOLT, 7/16 UNC x 1.5
15	1	P0001-12-016	BOLT, 3/4 UNC x 4
16	1	P0003-12-000	NUT, 3/4
17	8	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC 1.5

11" - 16" INCREASE KIT, A45265A
POWERED REAMING HEAD (SN FA45200F-2 & 3)



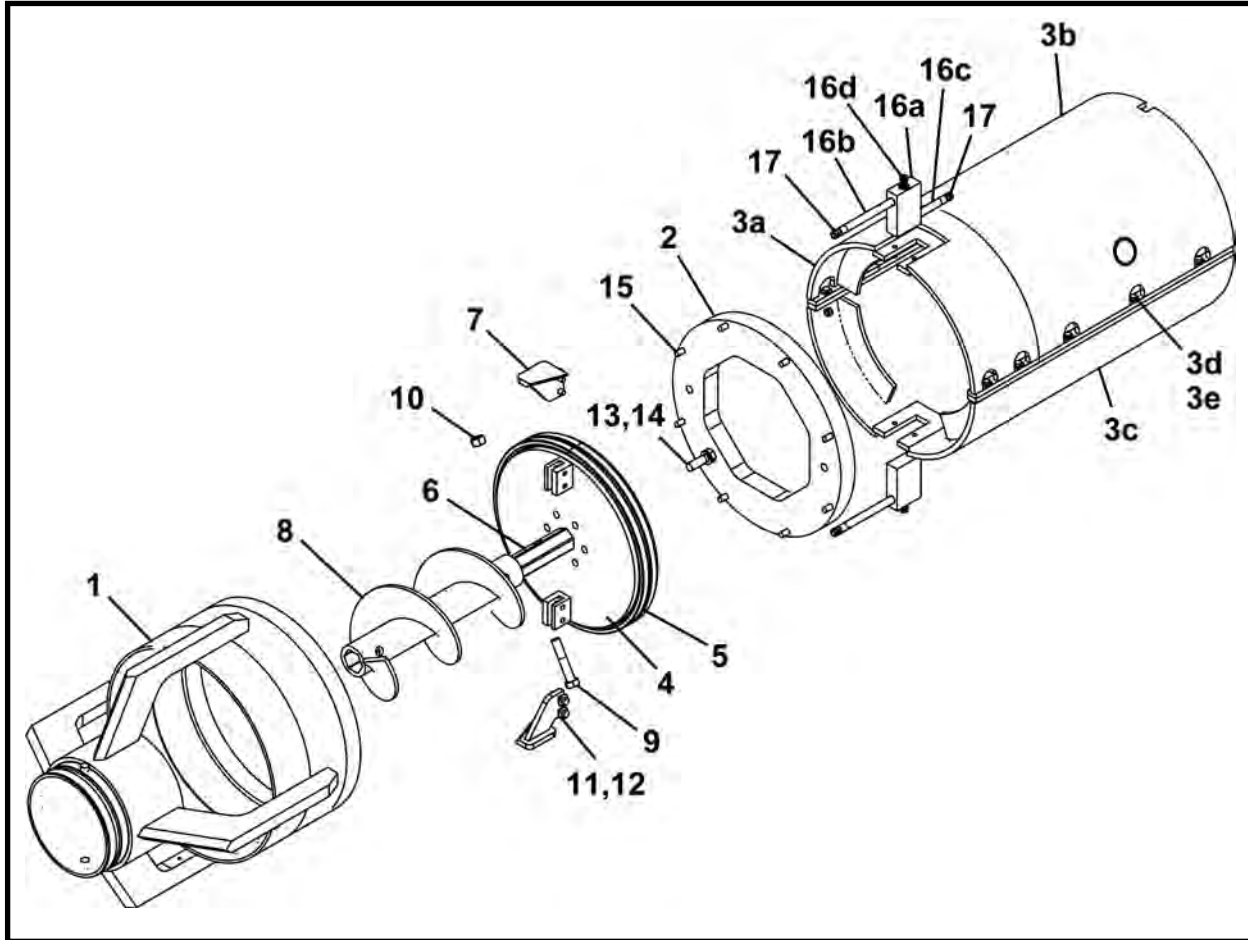
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45265A	11" - 16" INCREASE KIT
1	2	A45235A	WELDMENT, Periphery Cutter
2	1	A45238A	HEAD
3	1	A45257P	ADAPTER, Bearing
4	1	A45258A	WELDMENT, CUTTERHEAD
5	2	P0065-254	SEAL
6	8	P0085-015	ORING
7	2	A45303A	BLOCK, Jetting (Includes items 7a - 7d)
7a	1	A45297P	TUBE
7b	1	A45302P	BLOCK, Offset
7c	1	A45457P	TUBE, Small Jetting
7d	1	P0300-015	FITTING, 06MP-HHP
8	4	P0040-007	WASHER, Hardened Flat 7/16
9	4	P0001-07-006	BOLT, 7/16 UNC x 1.5
10	8	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC 1.5
11	1	A45667A	ASSEMBLY, 11" - 16" Skin (Includes items 11a - 11b)
11a	3	P0040-004	WASHER, Hardened Flat 1/4
11b	3	P0001-04-004	BOLT, 1/4 UNC x 1

11" - 16" INCREASE KIT, A45265A
POWERED REAMING HEAD (SN FA45200F-4 & 5)



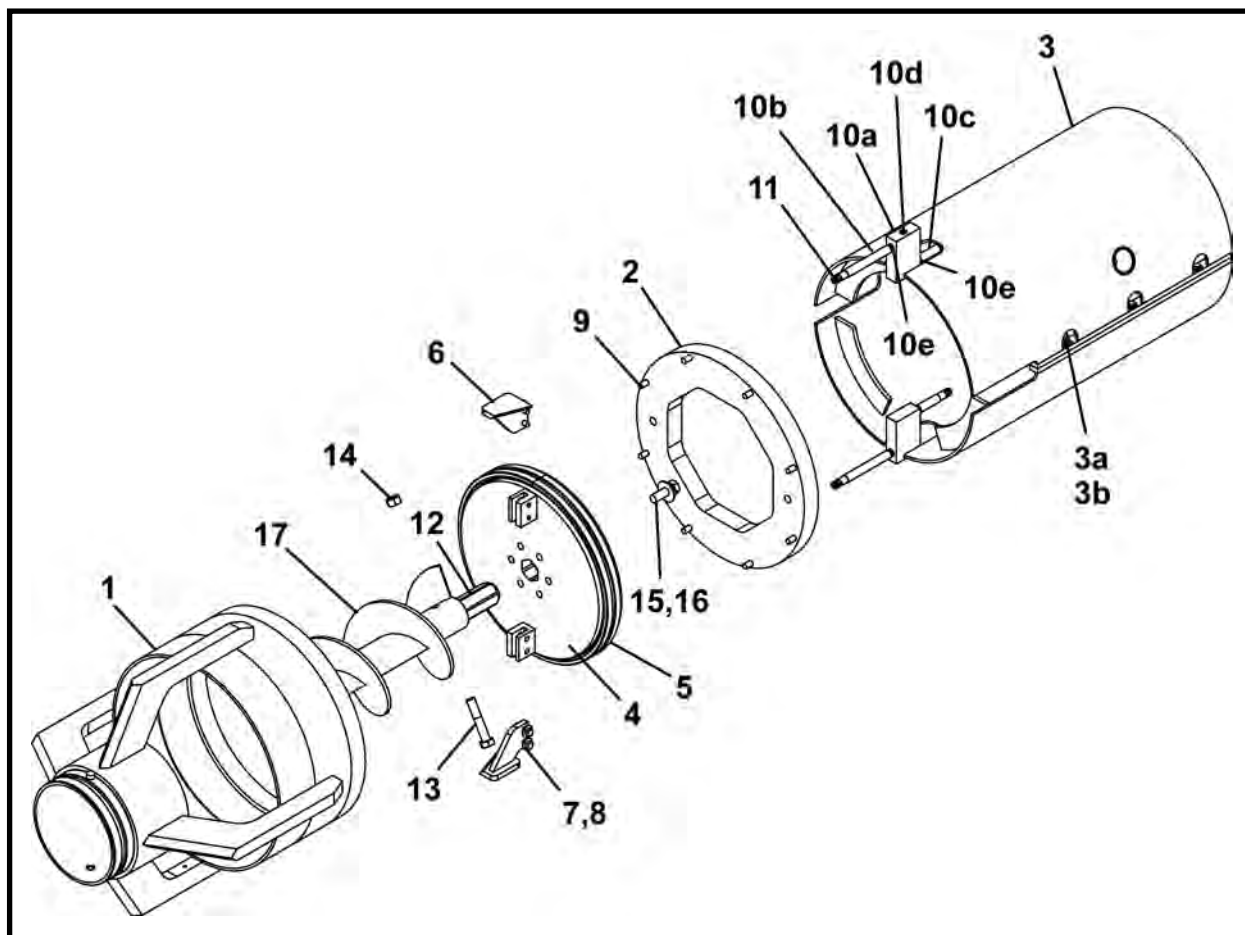
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45265A	11" - 16" INCREASE KIT
1	2	A45235A	WELDMENT, Periphery Cutter
2	1	A45238A	HEAD
3	1	A45257P	ADAPTER, Bearing
4	1	A45258A	WELDMENT, Cutterhead
5	2	P0065-254	SEAL
6	8	P0085-015	ORING
7	2	A46515A	BLOCK, Jet (Includes items 7a - 7e)
7a	1	A46516P	TUBE
7b	1	A45302P	BLOCK, Jetting Offset
7c	1	A45457P	TUBE, Small Jetting
7d	1	P0300-176	FITTING, 06MB-HHP
7e	2	P0300-332	ORING, 08OR
8	4	P0040-007	WASHER, Hardened Flat 7/16
9	4	P0001-07-006	BOLT, 7/16 UNC x 1.5
10	8	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC 1.5
11	1	A45667A	ASSEMBLY, 11" - 16" Skin (Length: 35.4") (Includes items 11a - 11b)
11a	3	P0040-006	WASHER, Hardened Flat 3/8
11b	3	P0001-06-004	BOLT, 3/8 UNC x 1

11" - 20" INCREASE KIT, A45266A
POWERED REAMING HEAD (SN FA45200F-1)



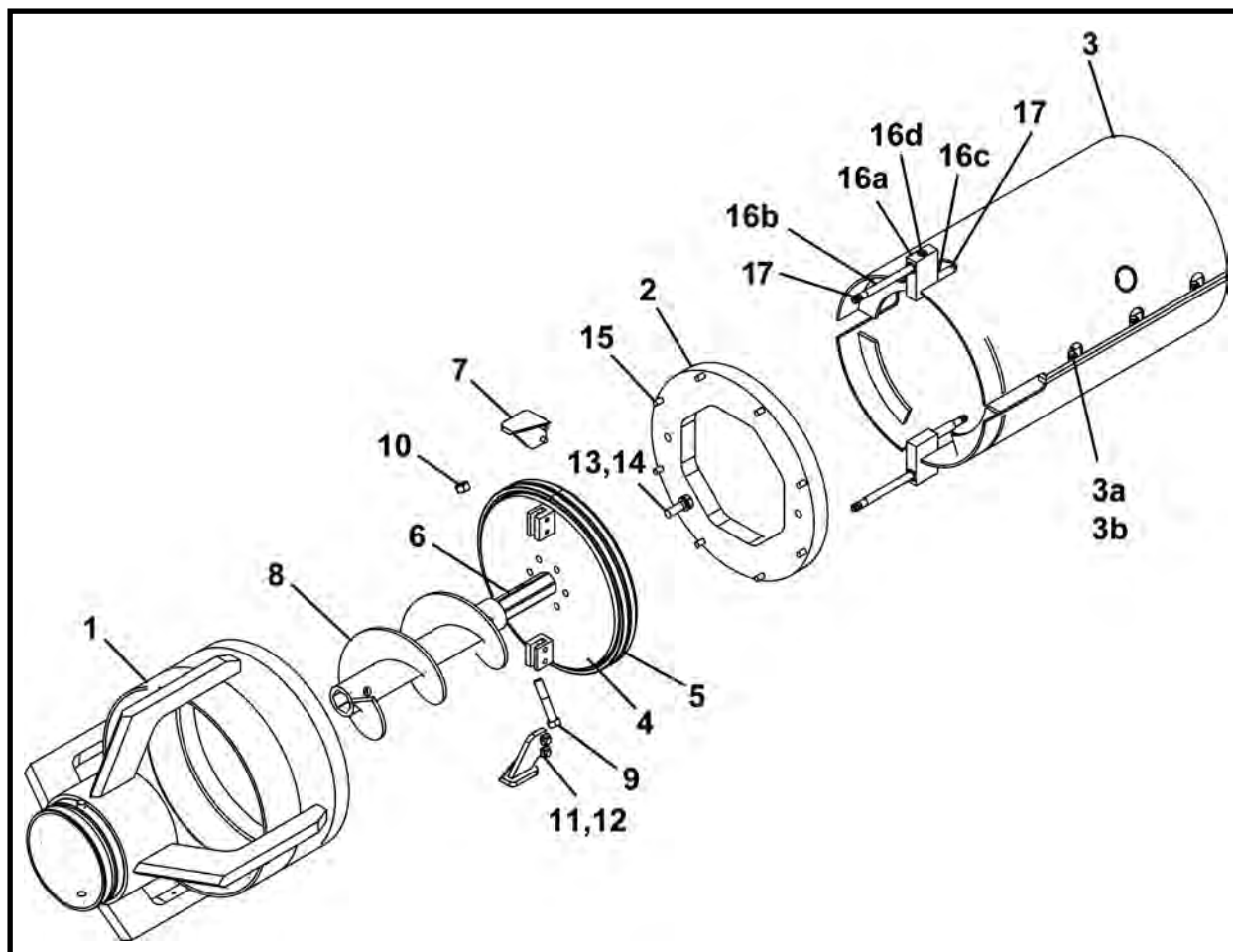
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45266A	11" - 20" INCREASE KIT
1	1	A45267A	HEAD
2	1	A45285P	ADAPTER, Bearing
3	1	A45276A	ASSEMBLY, Bolt On Skin (Includes items 3a - 3e)
3a	1	A45278A	WELDMENT, Bolt On Skin Short
3b	1	A45279A	WELDMENT, Bolt On Skin Long
3c	1	A45280A	WELDMENT, Bolt On Skin Tapped
3d	10	P0040-006	WASHER, Hardened Flat 3/8
3e	10	P0001-06-004	BOLT, 3/8 UNC x 1
4	1	A45286A	WELDMENT, Cutterhead
5	2	P0065-207	SEAL, Dirt
6	1	A45214P	CONNECTOR, Hex
7	2	A45235A	WELDMENT, Periphery Cutter
8	1	A45232A	AUGER, Coupling
9	1	P0001-12-016	BOLT, 3/4 UNC x 4
10	1	P0003-12-000	NUT, 3/4
11	4	P0040-007	WASHER, Hardened Flat 7/16
12	4	P0001-07-006	BOLT, 7/16 UNC x 1.5
13	1	P0045-012	WASHER, Lock 3/4
14	1	P0001-12-009	BOLT, 3/4 UNC x 2.25
15	8	P0031-08-008	SCREW, Socket Head Cap 1/2 UNC x 2
16	2	A45295A	BLOCK, Jetting (Includes items 16a - 16b)
16a	1	A45296P	BLOCK
16b	1	A45297P	TUBE
16c	1	A45457P	TUBE, Small Jetting
16d	1	P0300-015	FITTING, 06MP-HHP
17	8	P0085-015	ORING

11" - 20" INCREASE KIT, A45266A
POWERED REAMING HEAD (SN FA45200F-2 & 3)



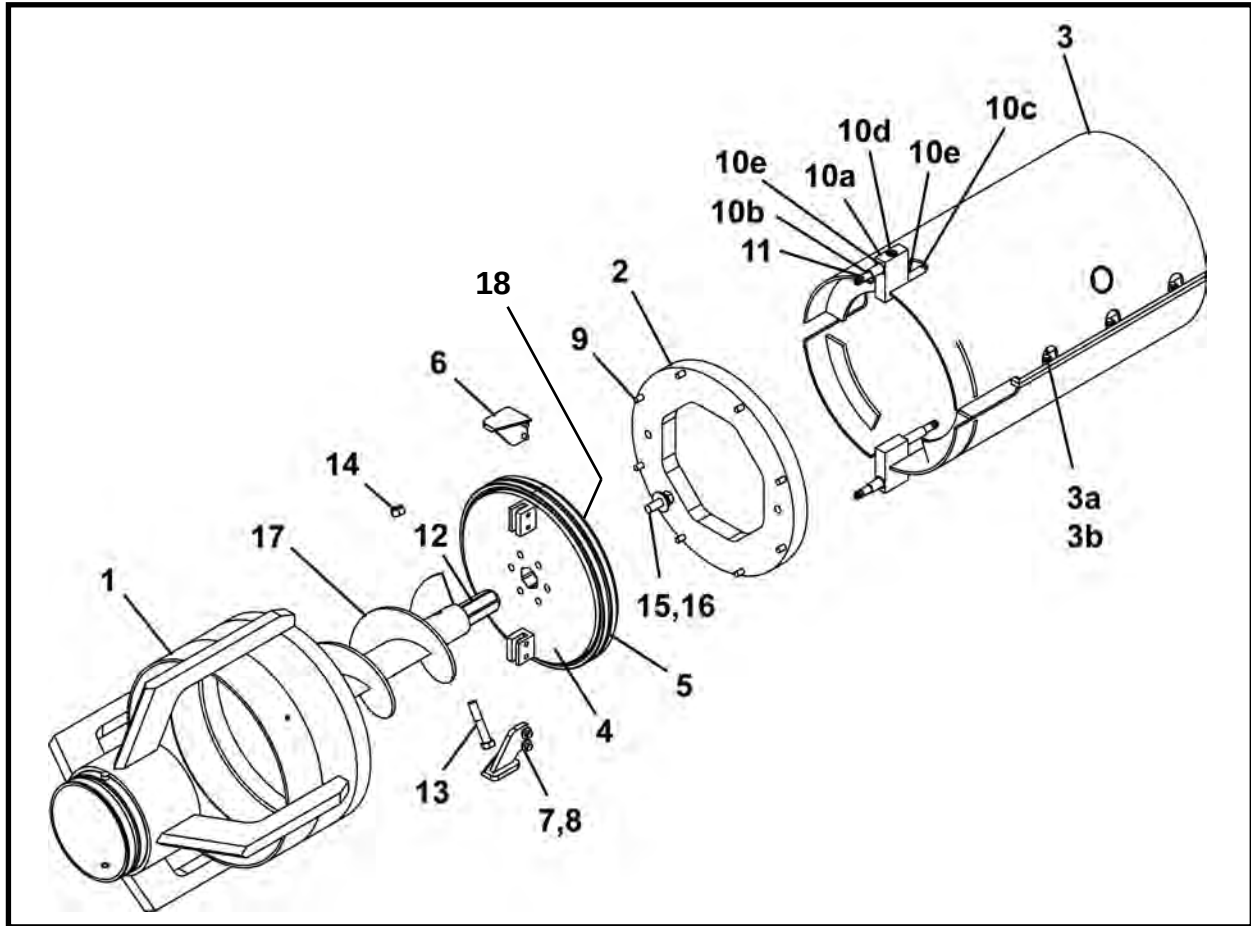
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45266A	11" - 20" INCREASE KIT
1	1	A45267A	HEAD
2	1	A45285P	ADAPTER, Bearing
3	1	A45487A	ASSEMBLY, Skin (Includes items 3a - 3b)
3a	3	P0001-06-004	BOLT, 3/8 UNC x 1
3b	3	P0040-006	WASHER, Hardened Flat 3/8
4	1	A45286A	WELDMENT, Cutterhead
5	2	P0065-207	SEAL, Dirt
6	2	A45235A	WELDMENT, Periphery Cutter
7	4	P0040-007	WASHER, Hardened Flat 7/16
8	4	P0001-07-006	BOLT, 7/16 UNC x 1.5
9	8	P0031-08-008	SCREW, Socket Head Cap 1/2 UNC x 2
10	2	A45295A	BLOCK, Jetting (Includes items 10a - 10d)
10a	1	A45296P	BLOCK
10b	1	A45297P	TUBE
10c	1	A45457P	TUBE, Small Jetting
10d	1	P0300-015	FITTING, 06MP-HHP
11	8	P0085-015	ORING
12	1	A45214P	CONNECTOR, Hex
13	1	P0001-12-016	BOLT, 3/4 UNC x 4
14	1	P0003-12-000	NUT, 3/4
15	1	P0001-12-009	BOLT, 3/4 UNC x 2.25
16	1	P0040-012	WASHER, Hardened Flat 3/4
17	1	A45232A	AUGER, Coupling

11" - 20" INCREASE KIT, A45266A
POWERED REAMING HEAD (SN FA45200F-4)



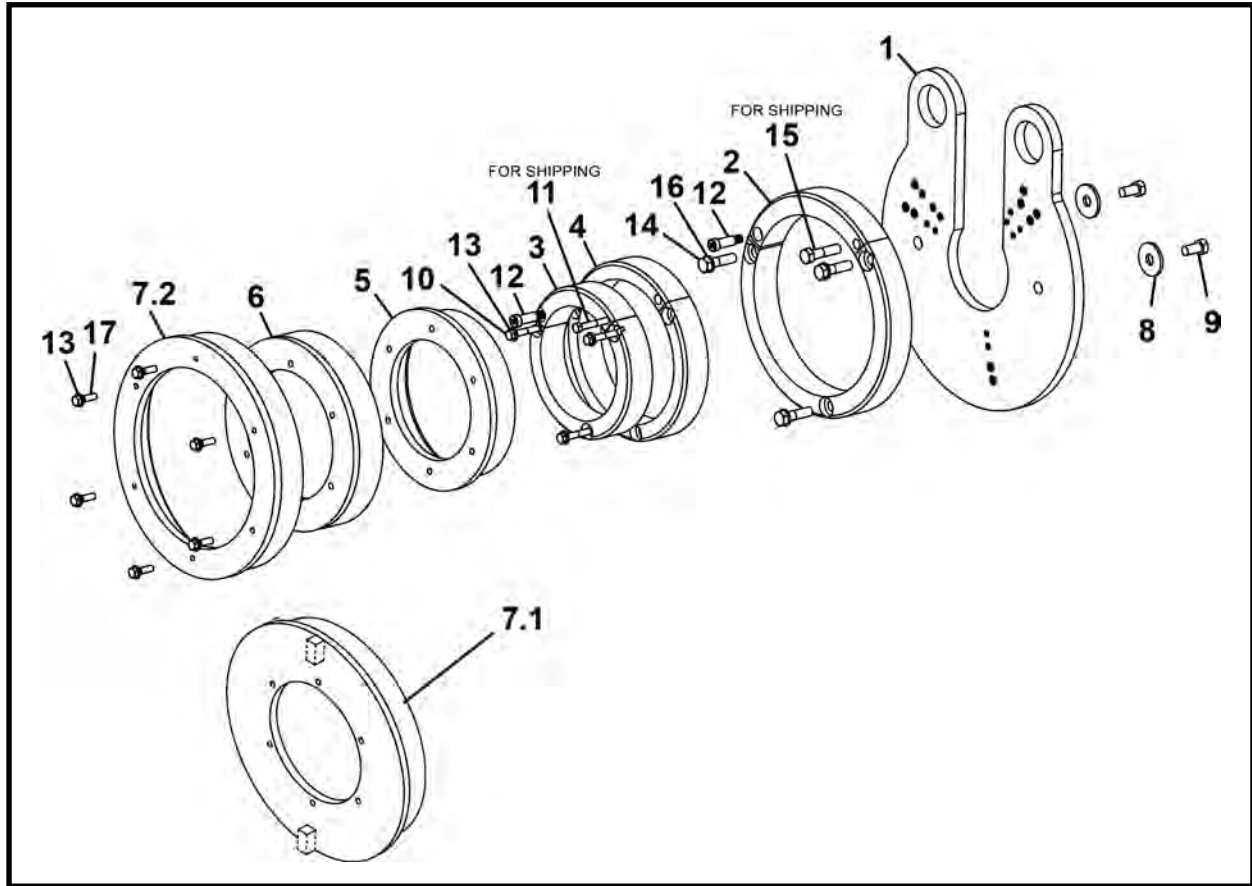
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45266A	11" - 20" INCREASE KIT
1	1	A45267A	HEAD
2	1	A45285P	ADAPTER, Bearing
3	1	A45487A	ASSEMBLY, Bolt On Skin (Includes items 3a - 3b)
3a	3	P0001-06-004	BOLT, 3/8 UNC x 1
3b	3	P0040-006	WASHER, Hardened Flat 3/8
4	1	A45286A	WELDMENT, Cutterhead
5	2	P0065-207	SEAL, Dirt
6	1	A45214P	CONNECTOR, Hex
7	2	A45235A	WELDMENT, Periphery Cutter
8	1	A45232A	AUGER, Coupling
9	1	P0001-12-016	BOLT, 3/4 UNC x 4
10	1	P0003-12-000	NUT, 3/4
11	4	P0040-007	WASHER, Hardened Flat 7/16
12	4	P0001-07-006	BOLT, 7/16 UNC x 1.5
13	1	P0045-012	WASHER, Lock 3/4
14	1	P0001-12-009	BOLT, 3/4 UNC x 2.25
15	8	P0031-08-008	SCREW, Socket Head Cap 1/2 UNC x 2
16	2	A45295A	BLOCK, Jetting (Includes items 16a - 16b)
16a	1	A45296P	BLOCK
16b	1	A45297P	TUBE
16c	1	A45457P	TUBE, Small Jetting
16d	1	P0300-015	FITTING, 06MP-HHP
17	8	P0085-015	ORING

11" - 20" INCREASE KIT, A45266A
POWERED REAMING HEAD (SN FA45200F-5)



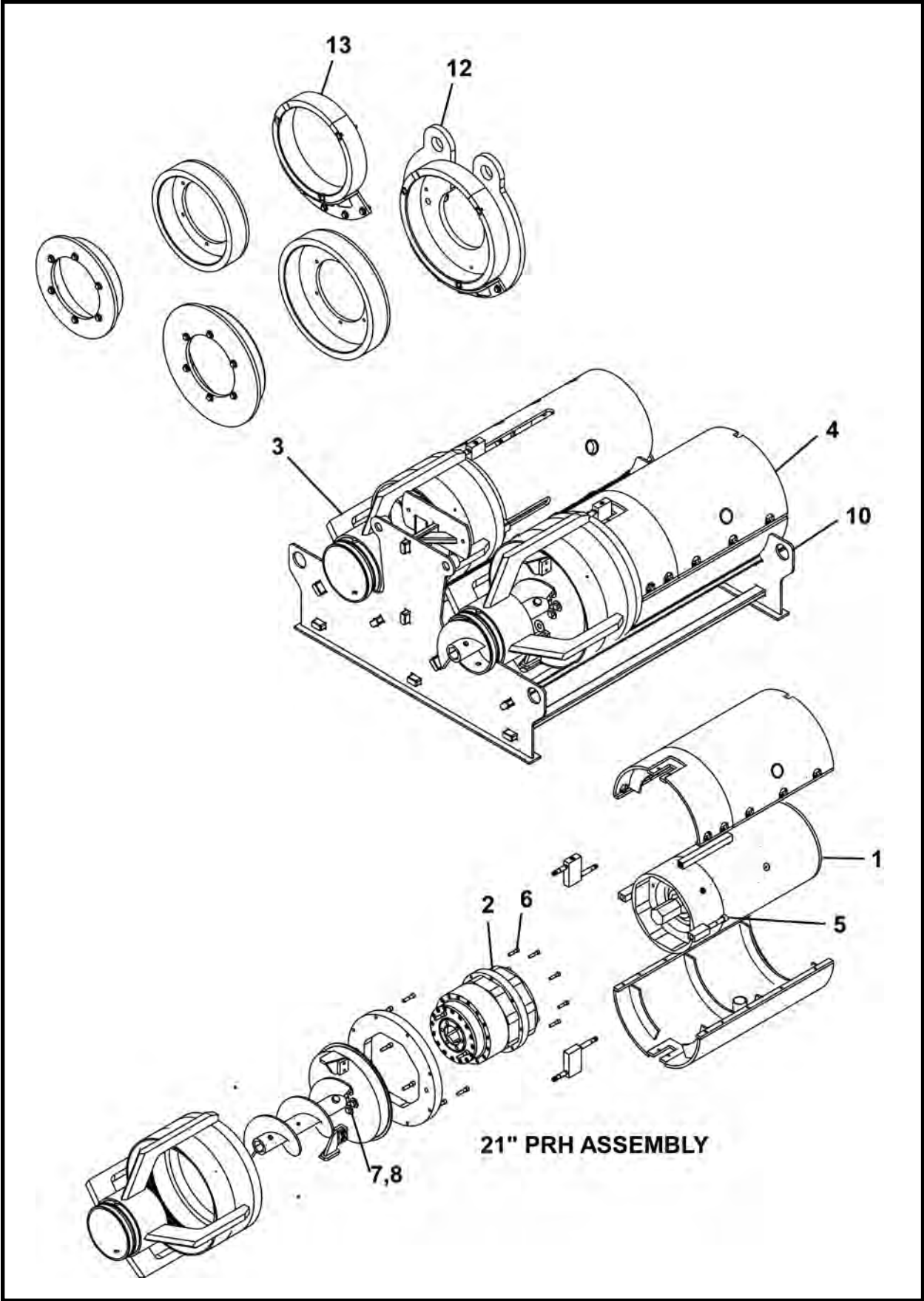
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45266A	11" - 20" INCREASE KIT
1	1	A45267A	HEAD
2	1	A45285P	ADAPTER, Bearing
3	1	A45487A	ASSEMBLY, Skin (Includes items 3a - 3b)
3a	3	P0001-06-004	BOLT, 3/8 UNC x 1
3b	3	P0040-006	WASHER, Hardened Flat 3/8
4	1	A45286A	WELDMENT, Cutterhead
5	2	P0065-207	SEAL, Dirt
6	2	A45235A	WELDMENT, Periphery Cutter
7	4	P0040-007	WASHER, Hardened Flat 7/16
8	4	P0001-07-006	BOLT, 7/16 UNC x 1.5
9	8	P0031-08-008	SCREW, Socket Head Cap 1/2 UNC x 2
10	2	A46514A	BLOCK, Jetting (Includes items 10a - 10e)
10a	1	A45296P	BLOCK
10b	1	A46507P	TUBE
10c	1	A45457P	TUBE, Small Jetting
10d	1	P0300-176	FITTING, 06MB-HHP
10e	2	P0300-332	ORING, 08OR
11	8	P0085-015	ORING
12	1	A45214P	CONNECTOR, Hex
13	1	P0001-12-016	BOLT, 3/4 UNC x 4
14	1	P0003-12-000	NUT, 3/4
15	1	P0001-12-009	BOLT, 3/4 UNC x 2.25
16	1	P0040-012	WASHER, Hardened Flat 3/4
17	1	A45232A	AUGER, Coupling
18	1	A46063P	RING, Lock

PIPE ADAPTER SET 10 - 12 - 15 NO-DIG, FA45428F
POWERED REAMING HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45428F	PIPE ADAPTER SET 10 - 12 - 15 No-Dig
1	1	A45430A	WELD PRH NO-DIG THRUST ADAPTER
2	1	A43171P	RING, Thrust
3	1	A45434P	RING, Thrust
4	1	A45432P	RING, Thrust
5	1	A45394A	ADAPTER, 10" No-Dig
6	1	A45397A	ADAPTER, 12" No-Dig
7.1	1	A45300A	ADAPTER, 15" No-Dig (SN FA45200F-1 thru 5)
7.2	1	A43136A	ADAPTER, 15" No-Dig (PCH20) (PRH SN FA45200F-6 & After)
8	2	004124P01	WASHER
9	2	P0001-12-006	BOLT, Hex 3/4 UNC x 1.5
10	3	P0001-08-011	BOLT, Hex 1/2 UNC x 2.75
11	1	P0001-08-012	BOLT, Hex 1/2 UNC x 3
12	2	P0030S-12-007	BOLT, Shoulder 3/4 x 1.75
13	9	P0040-008	WASHER, Flat Hardened 1/2
14	3	P0001-12-011	BOLT, Hex 3/4 UNC x 2.75
15	1	P0001-12-012	BOLT, Hex 3/4 UNC x 3
16	3	P0040-012	WASHER, Flat Hardened 3/4
17	6	P0001-08-007	BOLT, Hex 1/2 UNC x 1.75

17.5" - 21" OD POWERED REAMING HEAD ASSEMBLY, FA45690F
POWERED REAMING HEAD 17.5 - 21"OD



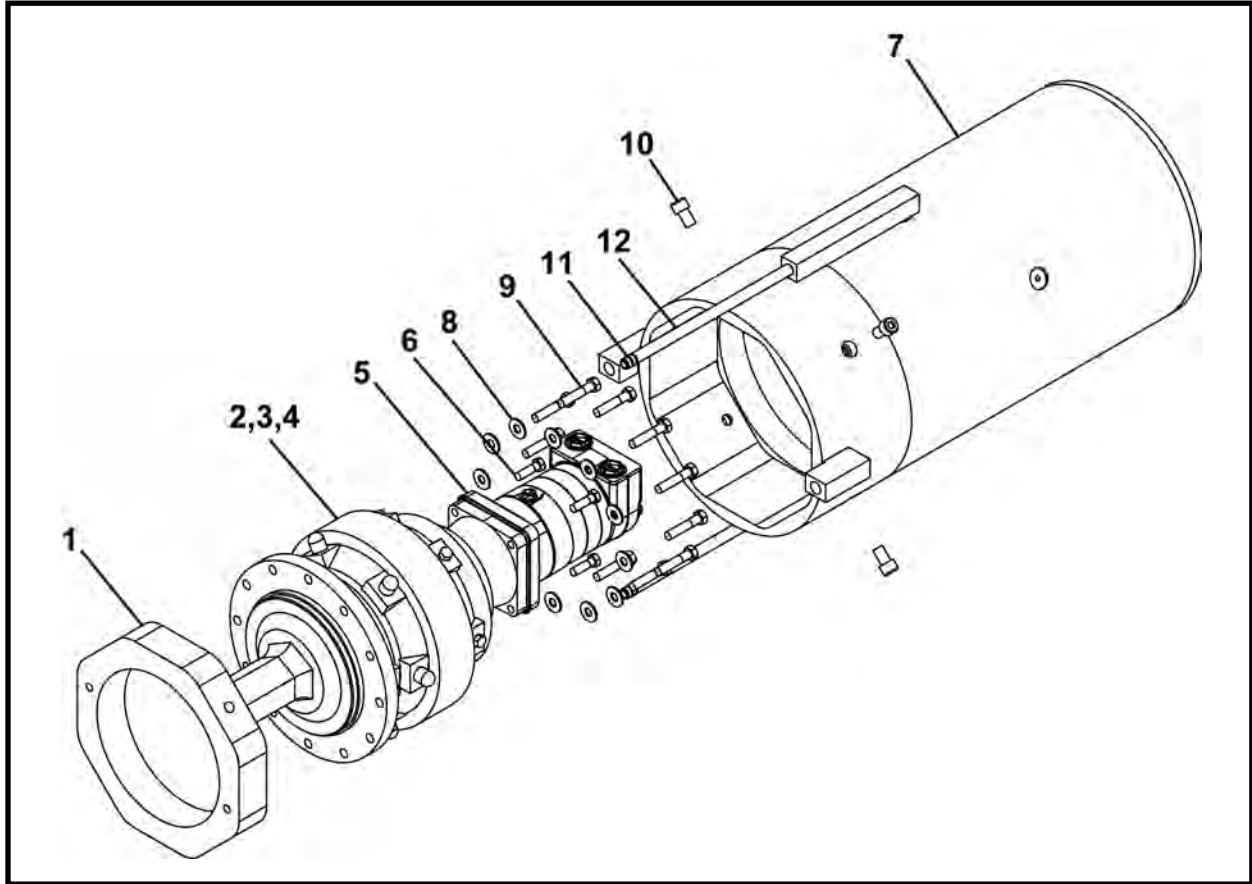
17.5" - 21" OD POWERED REAMING HEAD ASSEMBLY, FA45690F**POWERED REAMING HEAD 17.5 - 21"OD**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45690F	POWERED REAMING HEAD ASSEMBLY, 17.5" - 21"
1**	1	A45202A	ASSEMBLY, Rear Section PRH 14"
2**	1	A45203A	ASSEMBLY, PRH Bearing
3**	1	A45708A	KIT, 11" - 17.5" Increase
4**	1	A45691A	KIT, 11" - 21" Increase
5	2	P0031-12-015	SCREW, Socket Head Cap 3/4 UNC x 3.5
6	8	P0031-07-007	SCREW, Socket Head Cap 7/16 UNC x 1.75
7	6	P0040-010	WASHER, Hardened Flat 5/8
8	6	P0001-10-008	BOLT, 5/8 UNC x 2
9	1	A45461A	EXTENSION, 14" PRH
10	1	A45465A	CRADLE, Large PRH
11*	1	A45306A	ASSEMBLY, PRH Hydraulics
12**	1	A45724A	ADAPTER SET, 300MM RCP
13**	1	A45725A	ADAPTER SET, 375MM RCP

* Refer to section 6, Hydraulics for parts information.

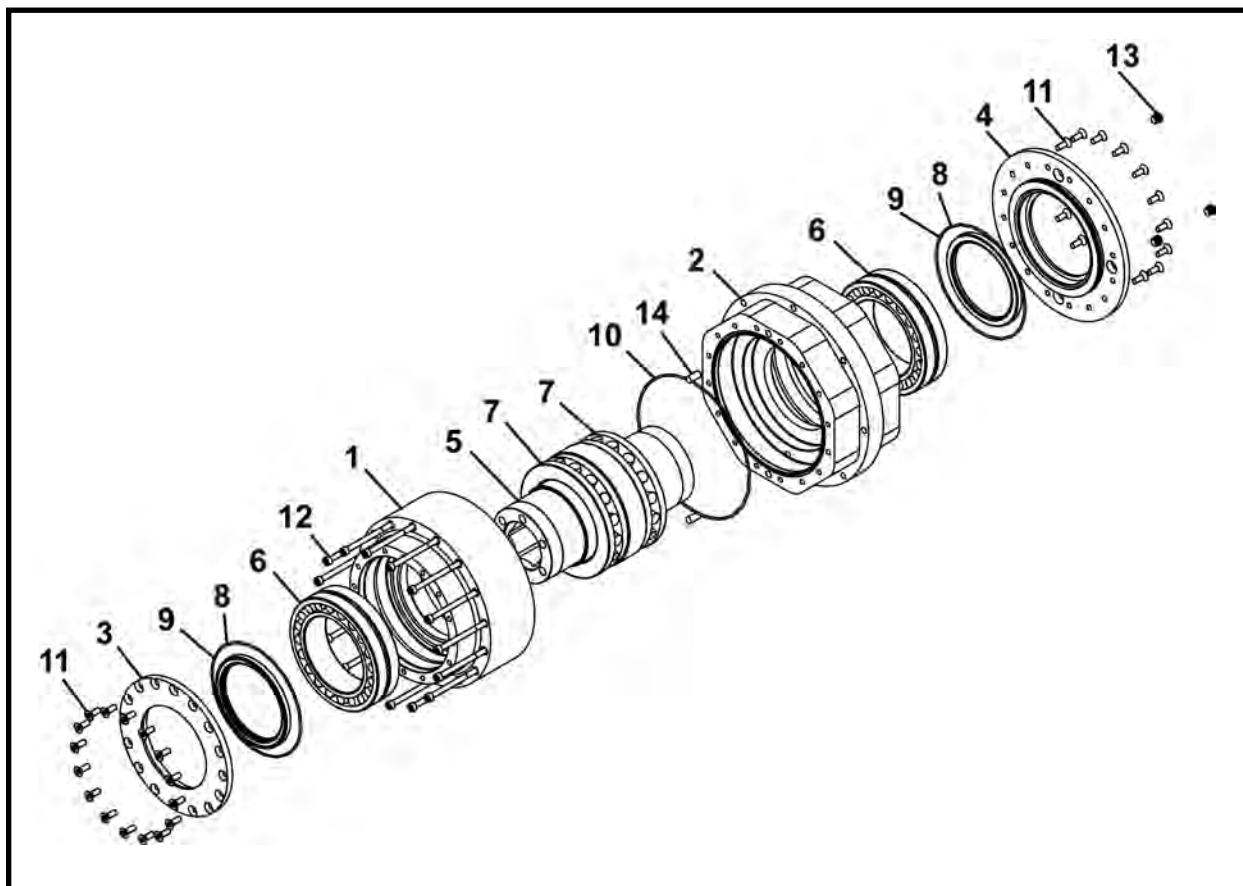
** Refer to this section for parts information.

PRH REAR SECTION ASSEMBLY, A45202A
POWERED REAMING HEAD 17.5 - 21"OD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45202A	PRH REAR SECTION ASSEMBLY
1	1	A45225P	PLATE, Gearbox Mount
2	1	P0097-033	GEARBOX
3	1	P0097-033A	MOUNT, Tooth
4	1	P0097-33B	KIT, Adapter
5	1	P0304-172	MOTOR
6	4	PM12A-1.25-040	BOLT, Metric
7	1	A45207A	WELDMENT, 11" - 14" Rear Can
8	12	P0040-008	WASHER, Hardened Flat 1/2
9	12	P0001-08-008	BOLT, 1/2 UNC x 2
10	4	P0031-10-004	SCREW, Socket Head Cap 5/8 UNC x 1
11	2	A45230P	TUBE, Jetting
12	8	P0085-015	ORING

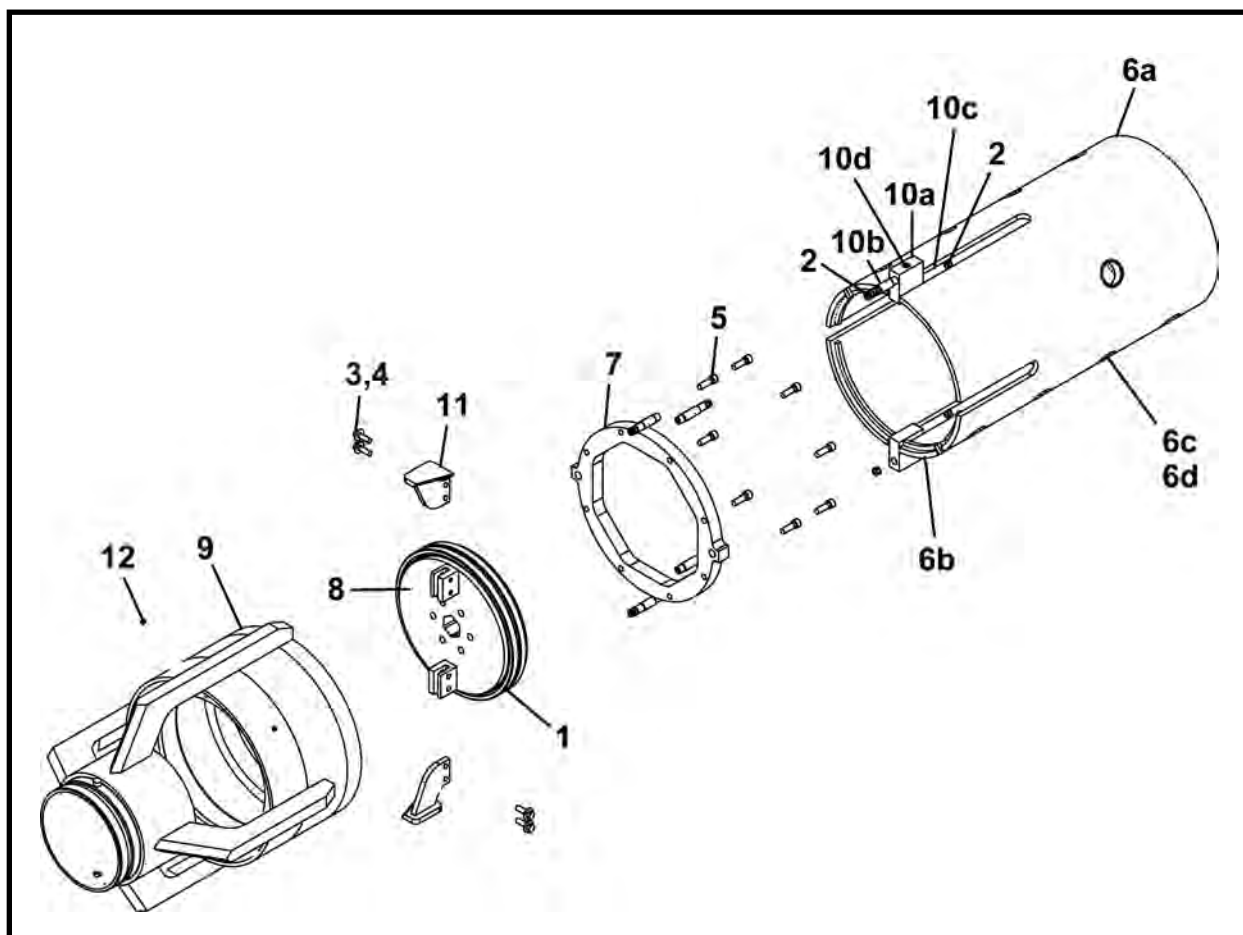
PRH BEARING ASSEMBLY, A45203A
POWERED REAMING HEAD 17.5 - 21"OD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45203A	PRH BEARING ASSEMBLY
1	1	A45218P	COVER, Front Bearing
2	1	A45219P	COVER, Rear Bearing
3	1	A45220P	RETAINER, Front Seal
4	1	A45221P	RETAINER, Rear Seal
5	1	A45222P	SHAFT
6	2	P0065-162	BEARING, Spherical Roller
7	2	P0065-160	BEARING, Cylindrical Roller
8	2	P0085-269	ORING
9	2	P0080-027	SEAL, Lip
10	1	P0085-276	ORING
11	32	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
12	16	P0031-06-018	SCREW, Socket Head Cap 3/8 UNC x 4.5
13	3	P0300-176	FITTING, 06MB-HHP
14	2	P0037-064	PIN, Dowel
15	3 QT	P0126-014	LUBE, Mobilgear 630

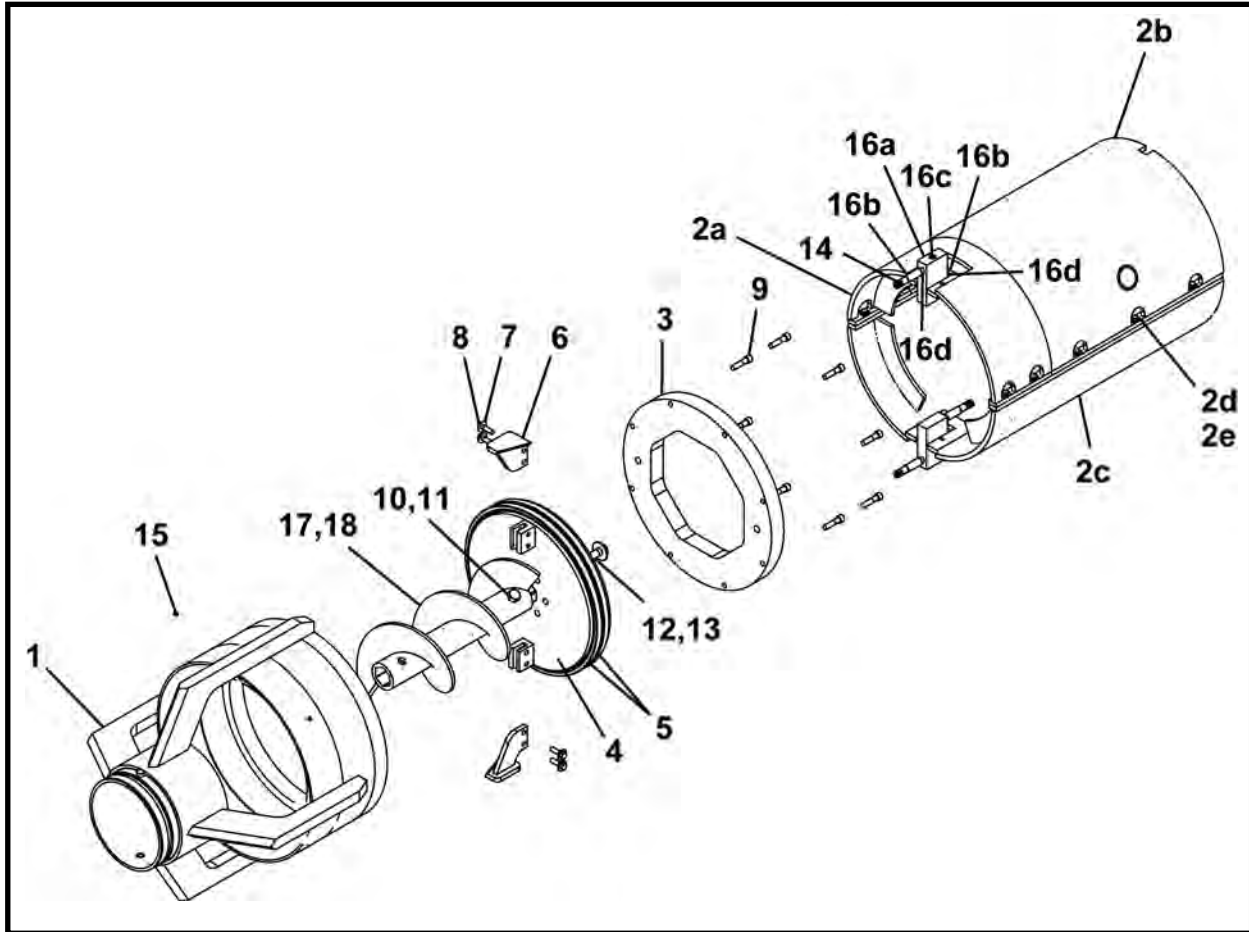
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11" - 17.5" INCREASE KIT, A45708A
POWERED REAMING HEAD 17.5 - 21"OD



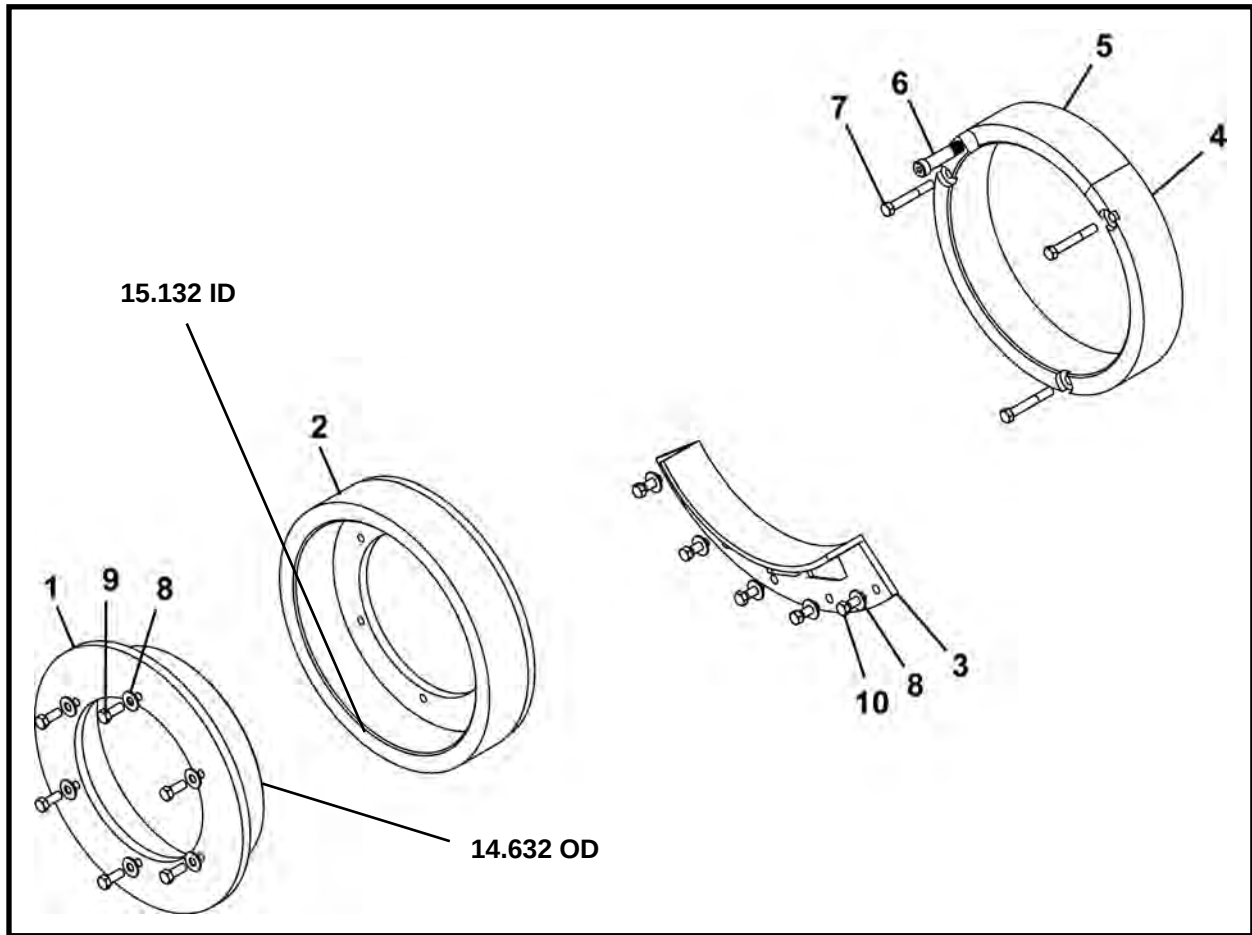
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45708A	11" - 17.5" INCREASE KIT
1	2	P0065-254	SEAL
2	8	P0085-015	ORING
3	4	P0040-007	WASHER, Hardened Flat 7/16
4	4	P0001-07-006	BOLT, 7/16 UNC x 1.5
5	8	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
6	1	A45247A	ASSEMBLY, Bolt On Skin (Includes items 6a - 6d)
6a	1	A45248A	WELDMENT, 16" Bolt On Skin Drilled
6b	1	A45277A	WELDMENT, 16" Bolt On Skin Tapped
6c	8	P0001-06-004	BOLT, 3/8 UNC x 1
6d	8	P0040-006	WASHER, Hardened Flat 3/8
7	1	A45257P	ADAPTER, Bearing
8	1	A45258A	WELDMENT, CUTTERHEAD
9	1	A45709A	HEAD
10	2	A45719A	BLOCK, Jetting (Includes items 10a - 10d)
10a	1	A45720P	BLOCK
10b	1	A45721P	TUBE, 17.5"
10c	1	A45717P	TUBE, 21"
10d	1	P0300-015	FITTING, 06MP-HHP
11	2	A45722A	WELDMENT, Cutter
12	4	P0300-144	FITTING, 02MP-HHP

11" - 21" INCREASE KIT, A45691A
POWERED REAMING HEAD 17.5 - 21"OD



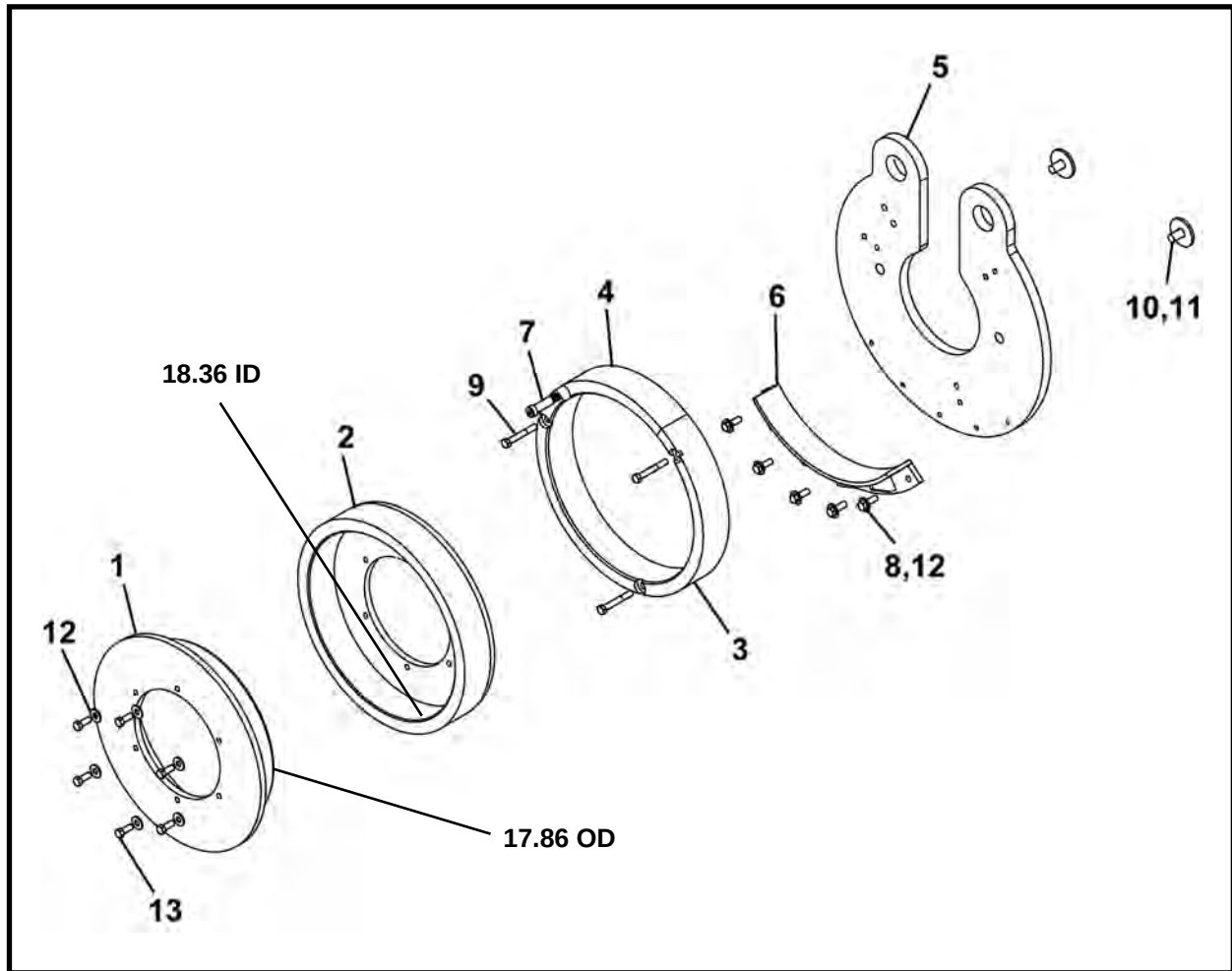
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45691A	11" - 21" INCREASE KIT
1	1	A45692A	HEAD
2	1	A45276A	ASSEMBLY, Bolt On Skin (Includes items 3a - 3e)
2a	1	A45278A	WELDMENT, Bolt On Skin Short
2b	1	A45279A	WELDMENT, Bolt On Skin Long
2c	1	A45280A	WELDMENT, Bolt On Skin Tapped
2d	10	P0040-006	WASHER, Hardened Flat 3/8
2e	10	P0001-06-004	BOLT, 3/8 UNC x 1
3	1	A45285P	ADAPTER, Bearing
4	1	A45286A	WELDMENT, Cutterhead
5	2	P0065-207	SEAL, Dirt
6	2	A45699A	WELDMENT, Cutter
7	4	P0040-007	WASHER, Hardened Flat 7/16
8	4	P0001-07-006	BOLT, 7/16 UNC x 1.5
9	8	P0031-08-008	SCREW, Socket Head Cap 1/2 UNC x 2
10	1	P0001-12-016	BOLT, 3/4 UNC x 4
11	1	P0003-12-000	NUT, 3/4
12	1	P0001-12-009	BOLT, 3/4 UNC x 2.25
13	1	P0040-012	WASHER, Hardened Flat 3/4
14	8	P0085-015	ORING
15	4	P0300-144	FITTING, 02MP-HHP
16	2	A45716A	BLOCK, Jetting (Includes items 16a - 16d)
16a	1	A45698P	BLOCK
16b	2	A45717P	TUBE
16c	1	P0300-015	FITTING, 06MP-HHP
17	1	A45232A	AUGER, Couping
18	1	A45214P	CONNECTOR, Hex

PIPE ADAPTER SET 300MM ID RCP, A45724A
POWERED REAMING HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45724A	PIPE ADAPTER SET 300MM ID RCP
1	1	A45726A	ADAPTER, Bell
2	1	A45729A	ADAPTER, Spigot
3	1	A45760A	ADAPTER, Thrust
4	1	A45746P	ADAPTER, Fixed Spigot
5	1	A45747P	ADAPTER, Hinged Spigot
6	1	P0030S-12-010	SCREW, Socket Head Shoulder
7	3	P0001-08-014	BOLT, 1/2 UNC x 3.5
8	11	P0040-008	WASHER, Hardened Flat 1/2
9	6	P0001-08-005	BOLT, 1/2 UNC x 1.25
10	5	P0001-08-006	BOLT, 1/2 UNC x 1.5

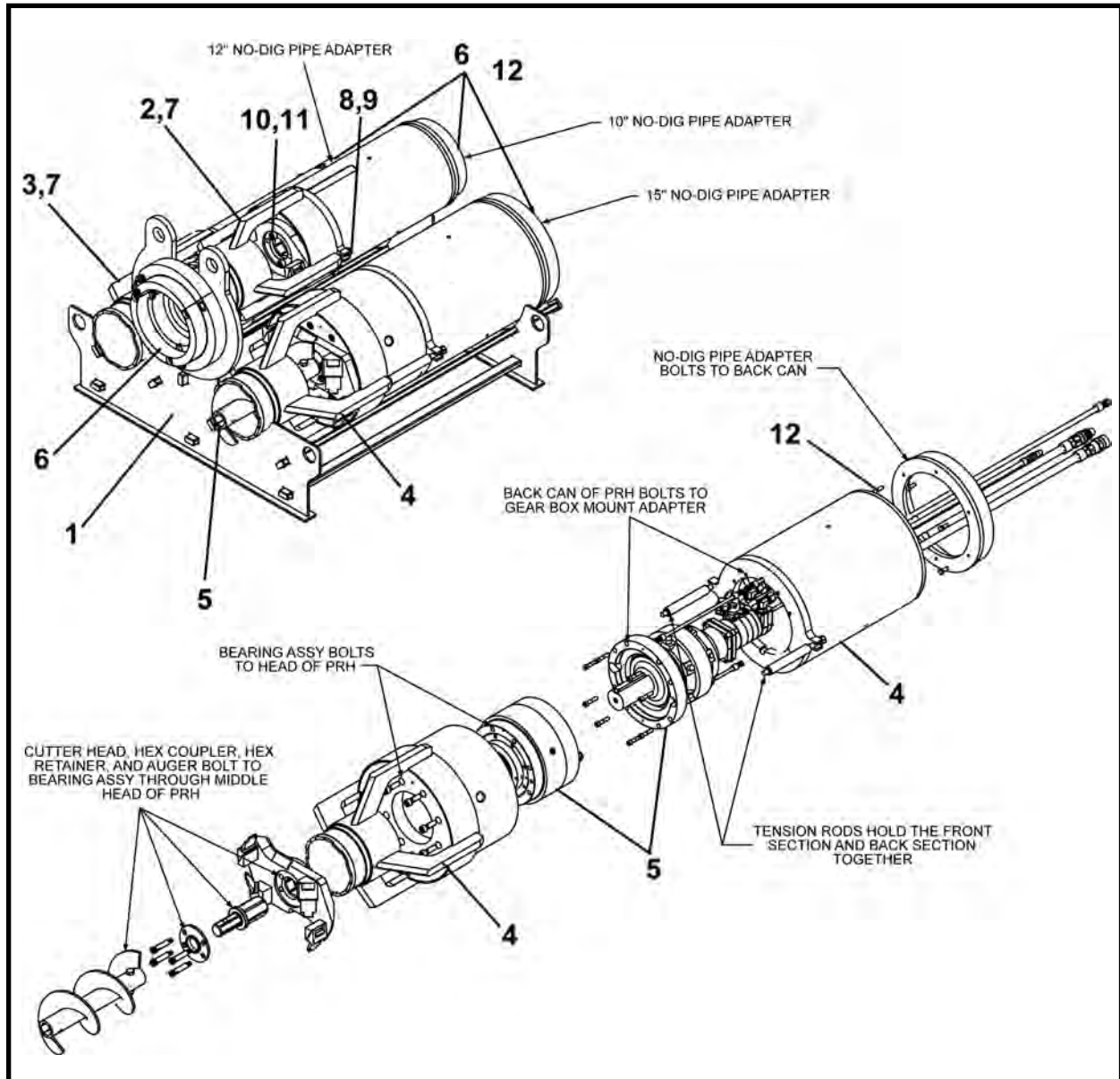
PIPE ADAPTER SET 375MM ID RCP, A45725A
POWERED REAMING HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45725A	PIPE ADAPTER SET 375MM ID RCP
1	1	A45733A	ADAPTER, Bell
2	1	A45736A	ADAPTER, Spigot
3	1	A45744P	ADAPTER, Fixed Spigot
4	1	A45745P	ADAPTER, Hinged Spigot
5	1	A45748A	PLATE, Thrust
6	1	A45749A	ADAPTER, Thrust
7	1	P0030S-12-010	SCREW, Socket Head Shoulder
8	5	P0001-08-006	BOLT, 1/2 UNC x 1.5
9	3	P0001-08-014	BOLT, 1/2 UNC x 3.5
10	2	P0001-12-006	BOLT, 3/4 UNC x 1.5
11	2	004124P01	WASHER
12	11	P0040-008	WASHER, Hardened Flat 1/2
13	6	P0001-08-005	BOLT, 1/2 UNC x 1.25

POWERED REAMING HEAD *Series II* ASSEMBLY, FA45200F

POWERED REAMING HEAD *Series II* (SN FA45200F-6 & AFTER)

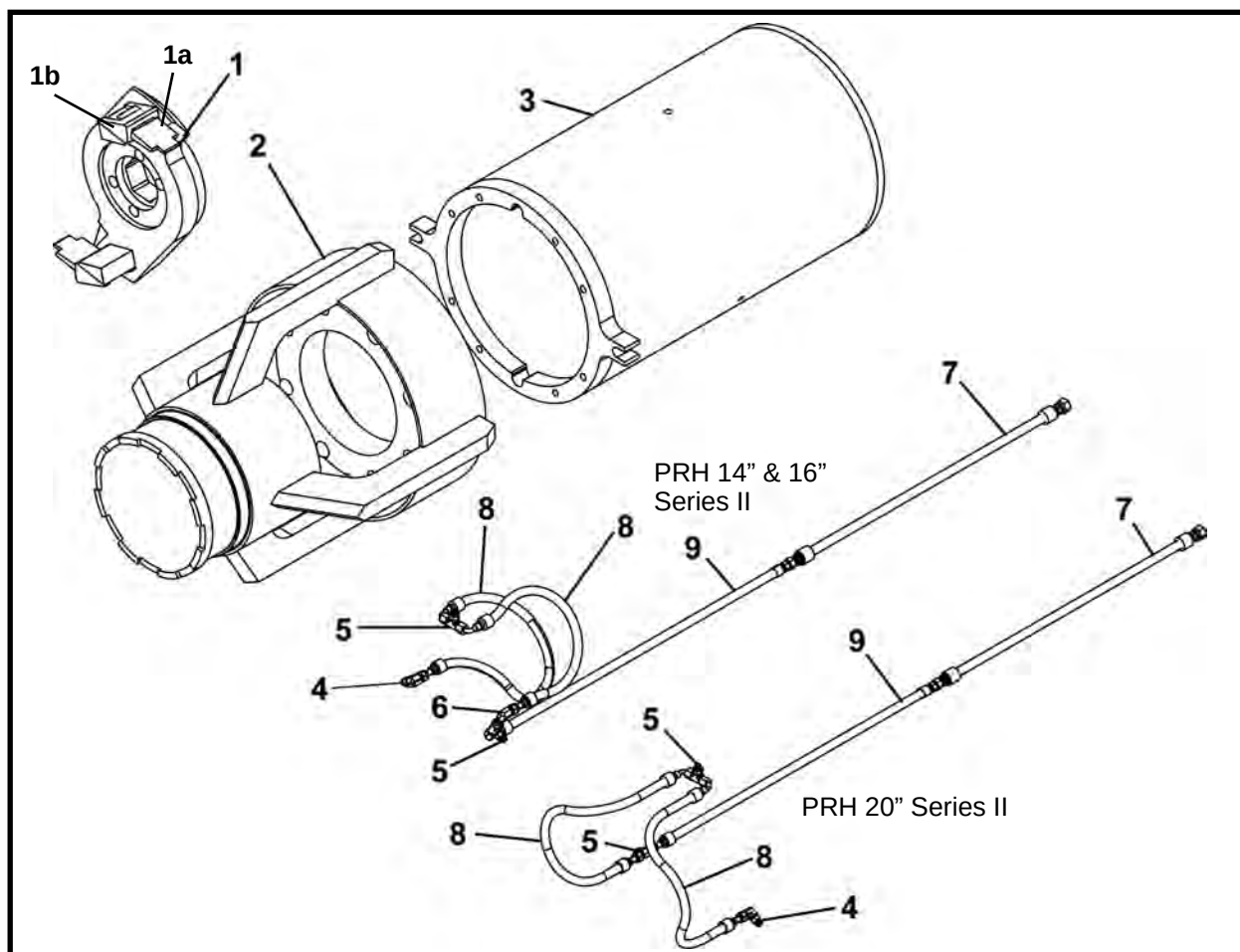


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45200F	POWERED REAMING HEAD <i>Series II</i> ASSEMBLY
1	1	A45465A	CRADLE, Large PRH
2*	1	FA46734F	SKIN ASSEMBLY, PRH 14" <i>Series II</i>
3*	1	FA46744F	SKIN ASSEMBLY, PRH 16" <i>Series II</i>
4*	1	FA46752F	SKIN ASSEMBLY, PRH 20" <i>Series II</i>
5*	1	FA46720F	DRIVE ASSEMBLY, PRH <i>Series II</i>
6	1	FA45428F	PIPE ADAPTER, 10, 12, 15 No-Dig
7	2	A47193P	BAR, Cutter Hold
8	4	P0040-012	WASHER, Hardened Flat 3/4
9	4	P0001-12-012	BOLT, Hex 3/4 UNC x 3
10	4	P0031-12-010	SCREW, Cap 3/4 x 2.5
11	4	P0031-12-018	SCREW, Socket Head Cap 3/4 x 4.5
12	18	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25

* Refer to this section for parts information.

Note: Skin assemblies can be purchased individually and powered with Drive Assembly, FA46720F.

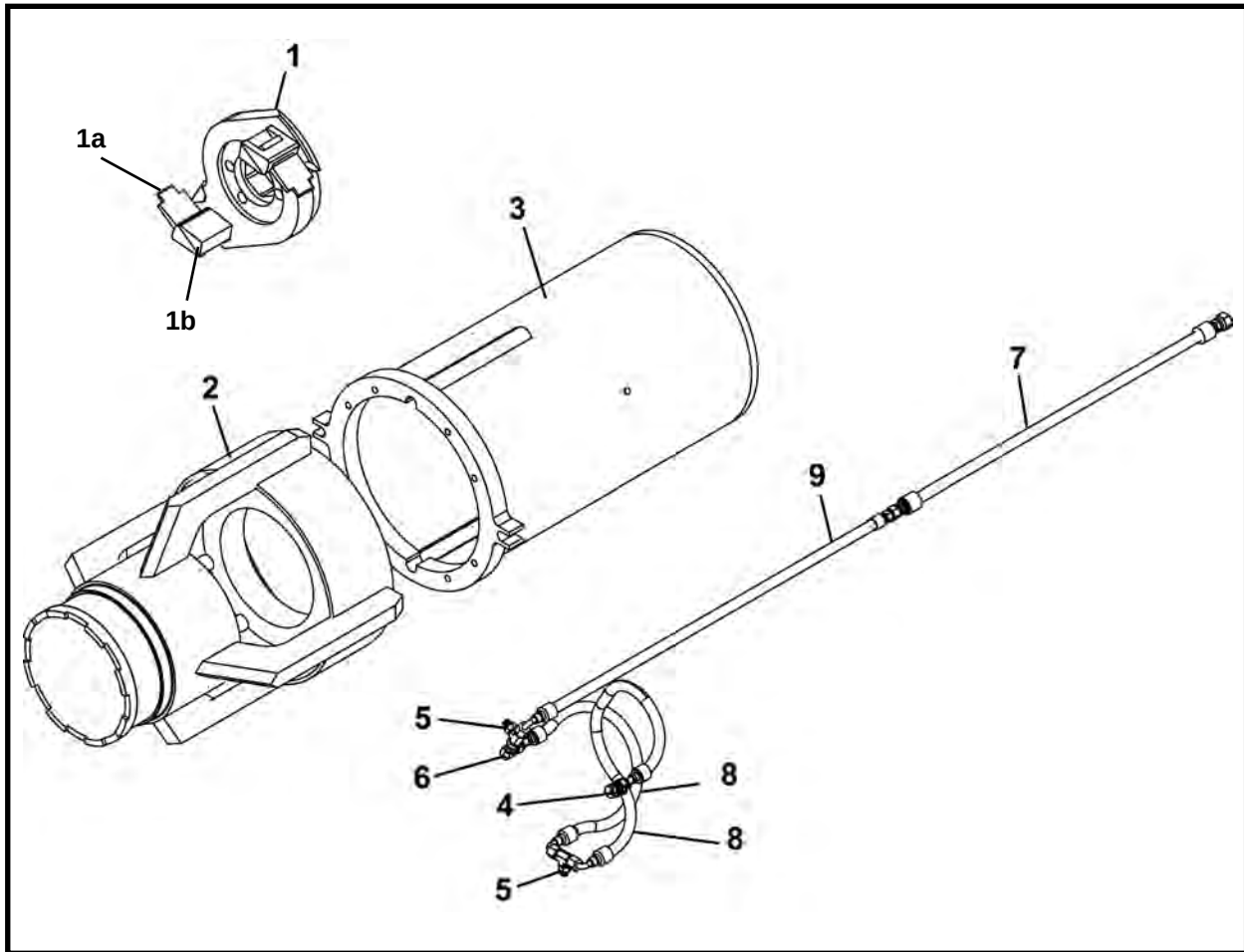
PRH Series II SKIN ASSEMBLY, PRH 14 - 16 - 20
POWERED REAMING HEAD Series II (SN FA45200F-6 & AFTER)



ITEM	QTY	PRH 14 PART NO.	PRH 16 PART NO.	PRH 20 PART NO.	DESCRIPTION
0	1	FA46734F	FA46744F	FA46752F	SKIN ASSEMBLY
1	1	A46705A	A46707A	A46709A	CUTTER (Includes items 1a & 1b)
1a	2/2/4	P0050-001	P0050-001	P0050-001	TOOTH, Cutter
1b	2/2/4	P0051-001	P0051-001	P0051-001	POCKET, Tooth
2	1	A46735A	A46751A	A46753A	HEAD
3	1	A46736A	A46747A	A46762A	CAN
4	1	P0300-355	P0300-355	P0300-355	FITTING, 06MFOR-06MB90
5	2	P0300-376	P0300-376	P0300-376	FITTING, 06MFOR-06MFOR-06MB
6	1/1/0	P0300-603	P0300-603	-	FITTING, 06MFOR-06FFFORX90
7	1	A09919A-034	A09919A-034	A09919A-034	HOSE ASSEMBLY, 1/2 x 34
8	2	A10079A-022	A10079A-022	-	HOSE ASSEMBLY, 3/8 x 22
8	2	-	-	A10079A-032	HOSE ASSEMBLY, 3/8 x 32
9	1	A09940A-036	A09940A-036	A09940A-036	HOSE ASSEMBLY, 3/8 x 36

Note: Powered with Drive Assembly, FA46720F.

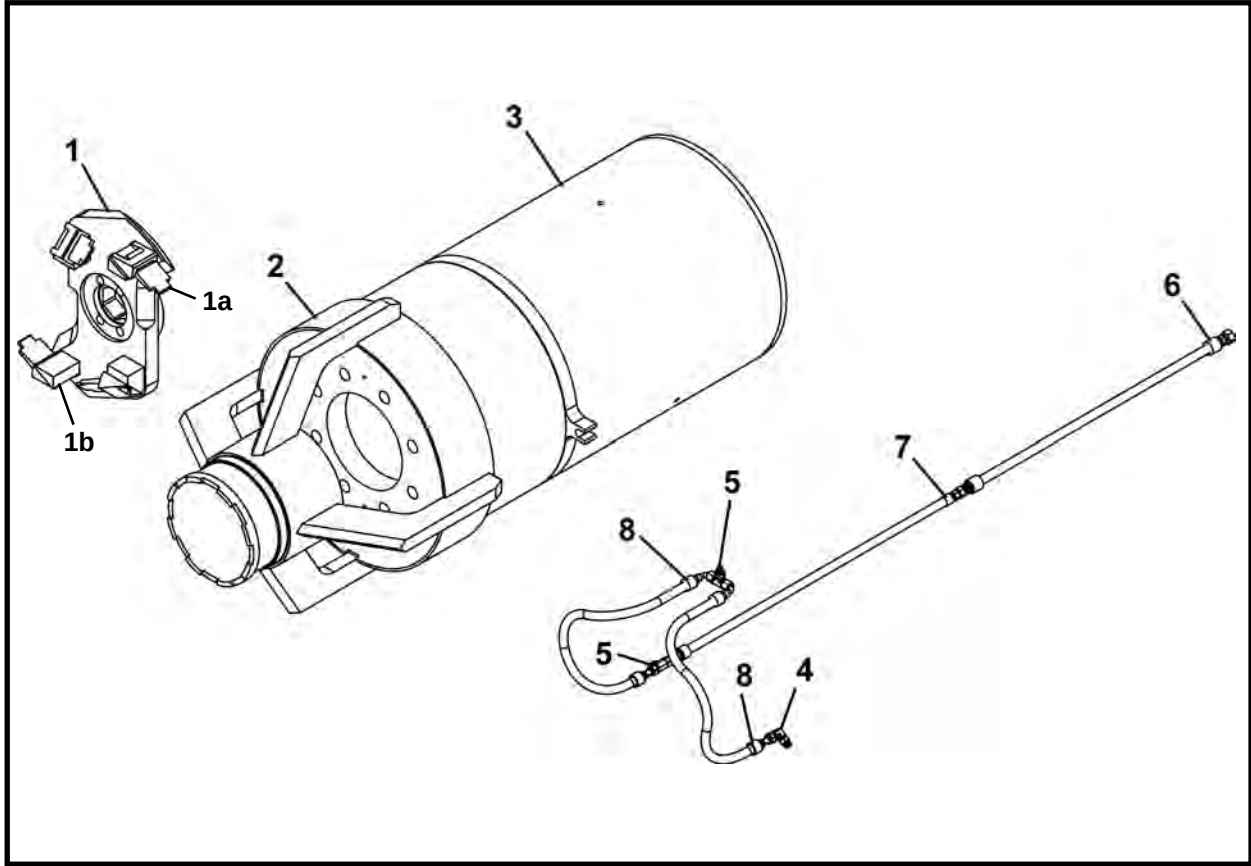
PRH Series II SKIN ASSEMBLY, PRH 15 - 16.5 - 17.5
POWERED REAMING HEAD Series II (SN FA45200F-6 & AFTER)



ITEM	QTY	PRH 15 PART NO.	PRH 16.5 PART NO.	PRH 17.5 PART NO.	DESCRIPTION
0	1	FA47538F	FA46770F	FA47539F	SKIN ASSEMBLY
1	1	A47542A	A46712A	A47544A	CUTTER (Includes items 1a & 1b)
1a	2	P0050-001	P0050-001	P0050-001	TOOTH, Cutter
1b	2	P0051-001	P0051-001	P0051-001	POCKET, Tooth
2	1	A47536A	A46771A	A47537A	HEAD
3	1	A47541A	A46772A	A47547A	CAN
4	1	P0300-355	P0300-355	P0300-355	FITTING, 06MFOR-06MB90
5	2	P0300-376	P0300-376	P0300-376	FITTING, 06MFOR-06MFOR-06MB
6	1	P0300-603	P0300-603	P0300-603	FITTING, 06MFOR-06FFORX90
7	1	A09919A-034	A09919A-034	A09919A-034	HOSE ASSEMBLY, 1/2 x 34
8	2	A10079A-022	A10079A-022	A10079A-022	HOSE ASSEMBLY, 3/8 x 22
9	1	A09940A-036	A09940A-036	A09940A-036	HOSE ASSEMBLY, 3/8 x 36

Note: Powered with Drive Assembly, FA46720F.

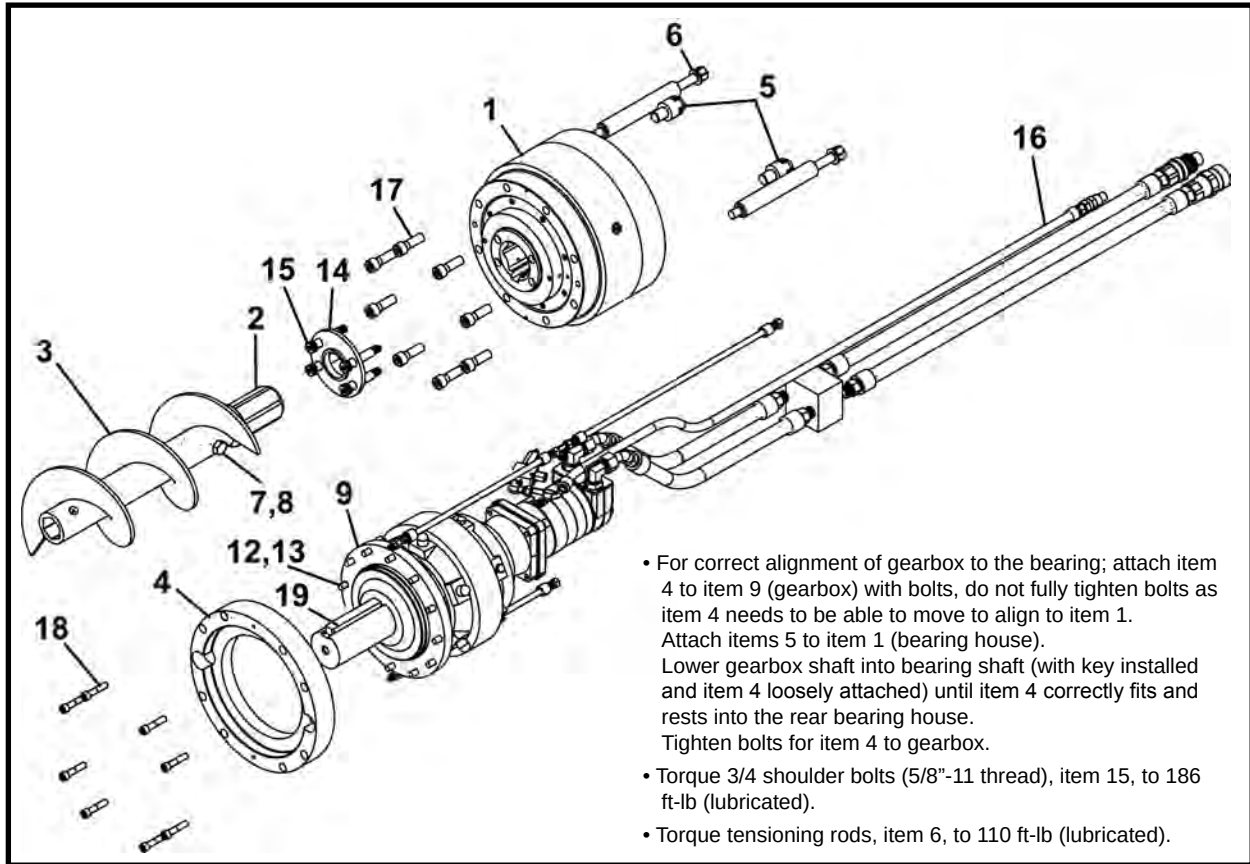
PRH Series II SKIN ASSEMBLY, PRH 21.63 - 26 - 28.5
POWERED REAMING HEAD Series II (SN FA45200F-6 & AFTER)



ITEM	QTY	PRH 21.63 PART NO.	PRH 26 PART NO.	PRH 28.5 PART NO.	DESCRIPTION
0	1	FA46773F	FA46767F	FA46764F	SKIN ASSEMBLY
1	1	A46713A	A46757A	A46711A	CUTTER (Includes items 1a & 1b)
1a	4	P0050-001	P0050-001	P0050-001	TOOTH, Cutter
1b	4	P0051-001	P0051-001	P0051-001	POCKET, Tooth
2	1	A46774A	A46768A	A46765A	HEAD
3	1	A46775A	A46769A	A46766A	CAN
4	1	P0300-355	P0300-355	P0300-355	FITTING, 06MFOR-06MB90
5	2	P0300-376	P0300-376	P0300-376	FITTING, 06MFOR-06MFOR-06MB
6	1	A09919A-034	A09919A-034	A09919A-034	HOSE ASSEMBLY, 1/2 x 34
7	1	A09980A-036	A09980A-036	A09980A-036	HOSE ASSEMBLY, 3/8 x 36
8	2	A10079A-034	A10079A-034	A10079A-034	HOSE ASSEMBLY, 3/8 x 34

Note: Powered with Drive Assembly, FA46720F.

PRH Series II (14 - 24 OD) DRIVE ASSEMBLY, FA46720F
POWERED REAMING HEAD Series II (SN FA45200F-6 & AFTER)



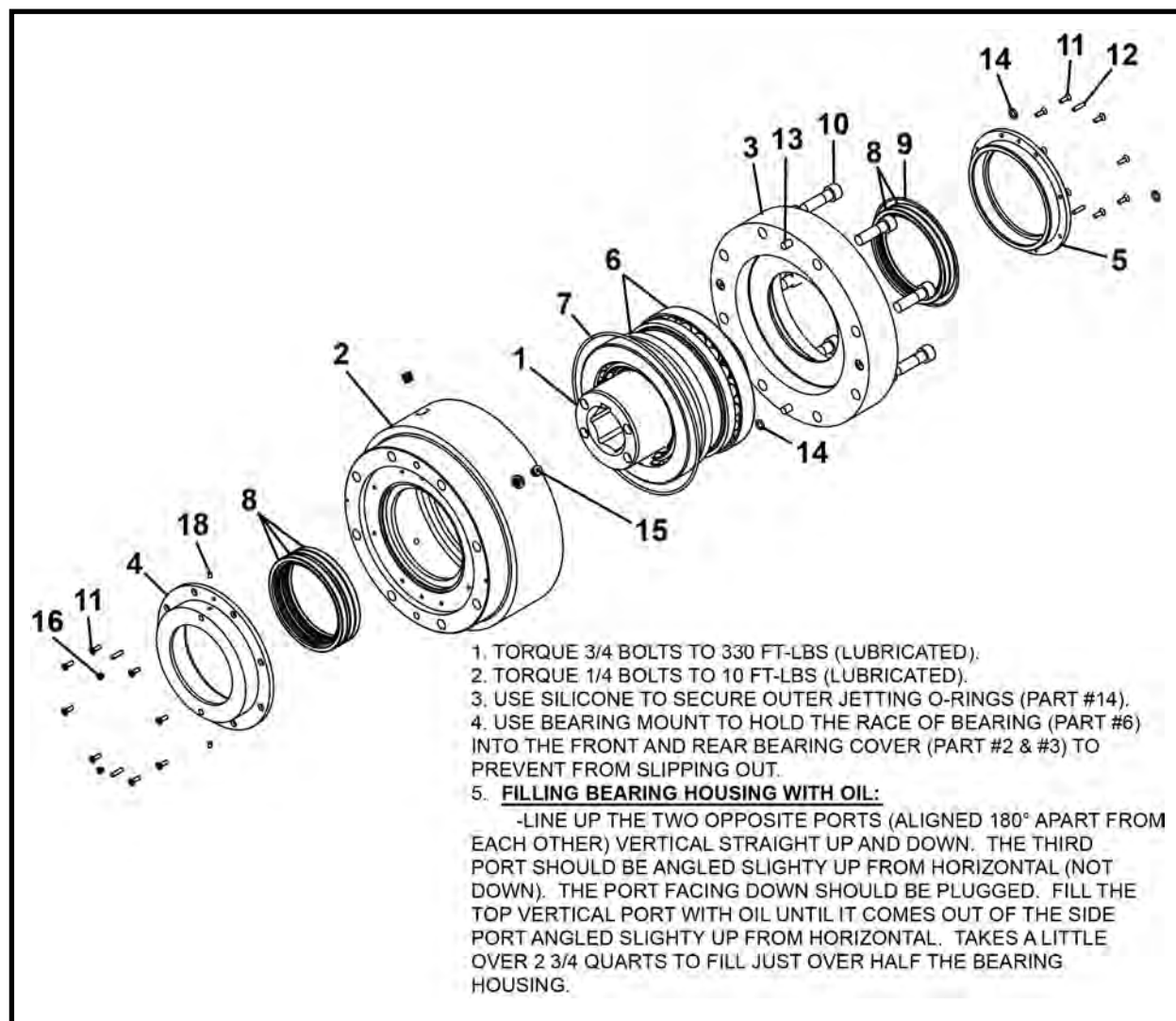
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA46720F	DRIVE ASSEMBLY
1*	1	A46721A	BEARING ASSEMBLY
2	1	A46727P	COUPLER, Hex
3	1	A46728A	AUGER
4	1	A46731P	MOUNT, Gearbox
5	2	A46732P	PIN, Torque
6	2	A46733P	ROD, Tensioning
7	1	P0013-12A-000	NUT, Nylock 3/4
8	1	P0001-12-016	BOLT, Hex 3/4 UNC x 4
9	1	P0097-026	GEARBOX (Includes items 9a-9d, 10, 11)
9a**	1	P0097-026C	COUPLING
9b**	1	P0097-026D	ASSEMBLY, Output
9c**	1	P0097-026E	BREATHER, Oil
9d**	1	P0097-026F	OIL SEAL, Output Shaft
10**	1	P0097-026A	KIT, Bolt Mount
11**	1	P0097-026B	KIT, Universal Mount
12	12	P0040-008	WASHER, Hardened Flat 1/2
13	12	P0001-08-007	BOLT, Hex 1/2 UNC x 1.75
14	1	A46714P	RETAINER, Hex
15	4	P0030S-12-017	BOLT, Shoulder Socket Head 3/4 x 3
16***	1	A46806A	HYDRAULICS ASSEMBLY
17	8	P0031-12-010	SCREW, Socket Head Cap 3/4 x 2.5
18	8	P0031-08-009	SCREW, Socket Head Cap 1/2 UNC x 2.25
19	1	A43188P	KEY

* Refer to this section for parts information.

** Not Shown

*** Refer to section 6, Hydraulics for parts information.

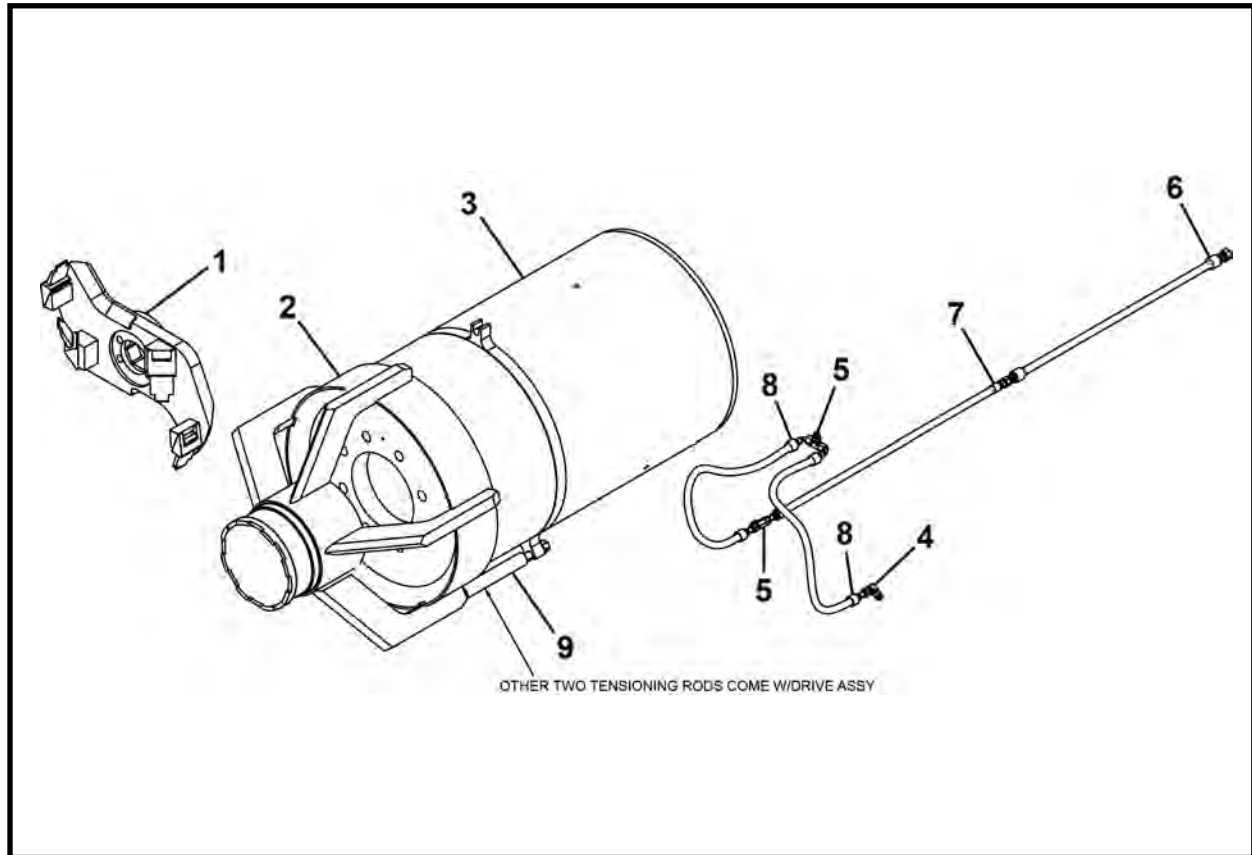
BEARING ASSEMBLY, A46721A
POWERED REAMING HEAD Series II (SN FA45200F-6 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A46721A	BEARING ASSEMBLY, PRH Series II
1	1	A46722P	SHAFT, Drive
2	1	A46723P	COVER, Front Bearing
3	1	A46724P	COVER, Rear Bearing
4	1	A46725P	COVER, Front Seal
5	1	A46726P	COVER, Rear Seal
6	2	P0065-213	BEARING, Thrust Block
7	1	P0085-381	ORING
8	5	P0080-039	SEAL, Small bore
9	2	P0085-266	ORING
10	8	P0031-12-010	SCREW, Shoulder Cap 3/4 x 2 .5
11	16	P0030-04-003	SCREW, Flat Head Cap 1/4 UNC x .75
12	4	P0037-025	PIN, Dowel
13	2	P0037-064	PIN, Dowel
14	4	P0085-206	ORING
15	3	P0300-176	PLUG, 06MB-HHP
16	2	P0300-144	PLUG, 02MP-HHP
17	3 QT	P0126-014	LUBE, Mobil Gear 630
18	2	P0033-04-005	SCREW, Socket Set Screw 1/4 UNC x 5/16

QT - Quart

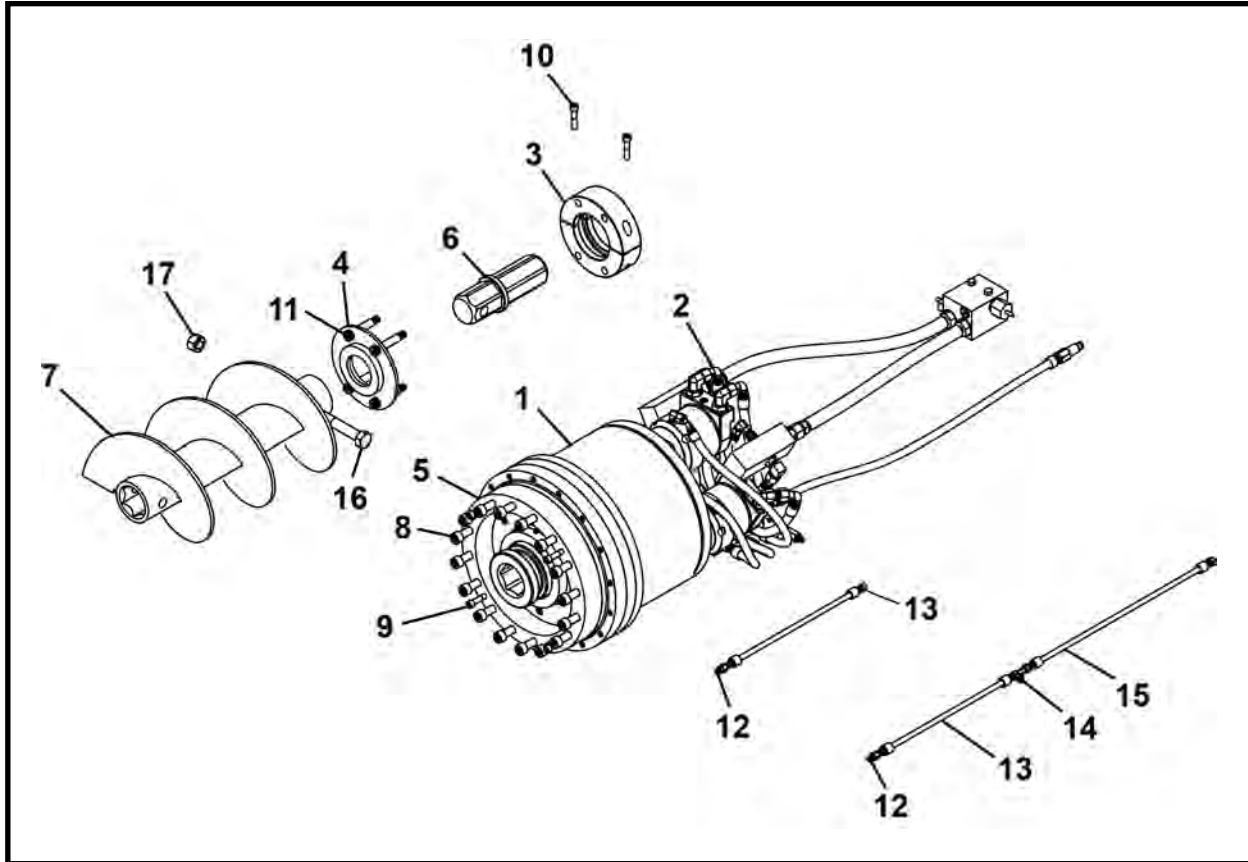
24.2" OD PRH SERIES II SKIN ASSEMBLY, FA47931F
POWERED REAMING HEAD Series II Skin



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA47931F	PRH Series II SKIN ASSEMBLY, 24.2" OD
1	1	A47920A	CUTTER
2	1	A47925A	HEAD
3	1	A47930A	CAN
4	1	P0300-355	FITTING, 06MFOR-06MB90
5	2	P0300-376	FITTING, 06MFOR-06MFOR-06MB
6	1	A09919A-034	HOSE ASSEMBLY, 1/2 x 34
7	1	A09980A-036	HOSE ASSEMBLY, 3/8 x 36
8	2	A10079A-034	HOSE ASSEMBLY, 3/8 x 34
9	1	A46733P	ROD, Tensioning

NOTES

PRH Series II (24 - 30.5 OD, 20,000 ft-lb) DRIVE ASSEMBLY, FA48030F
POWERED REAMING HEAD Series II (20,000 ft-lb)

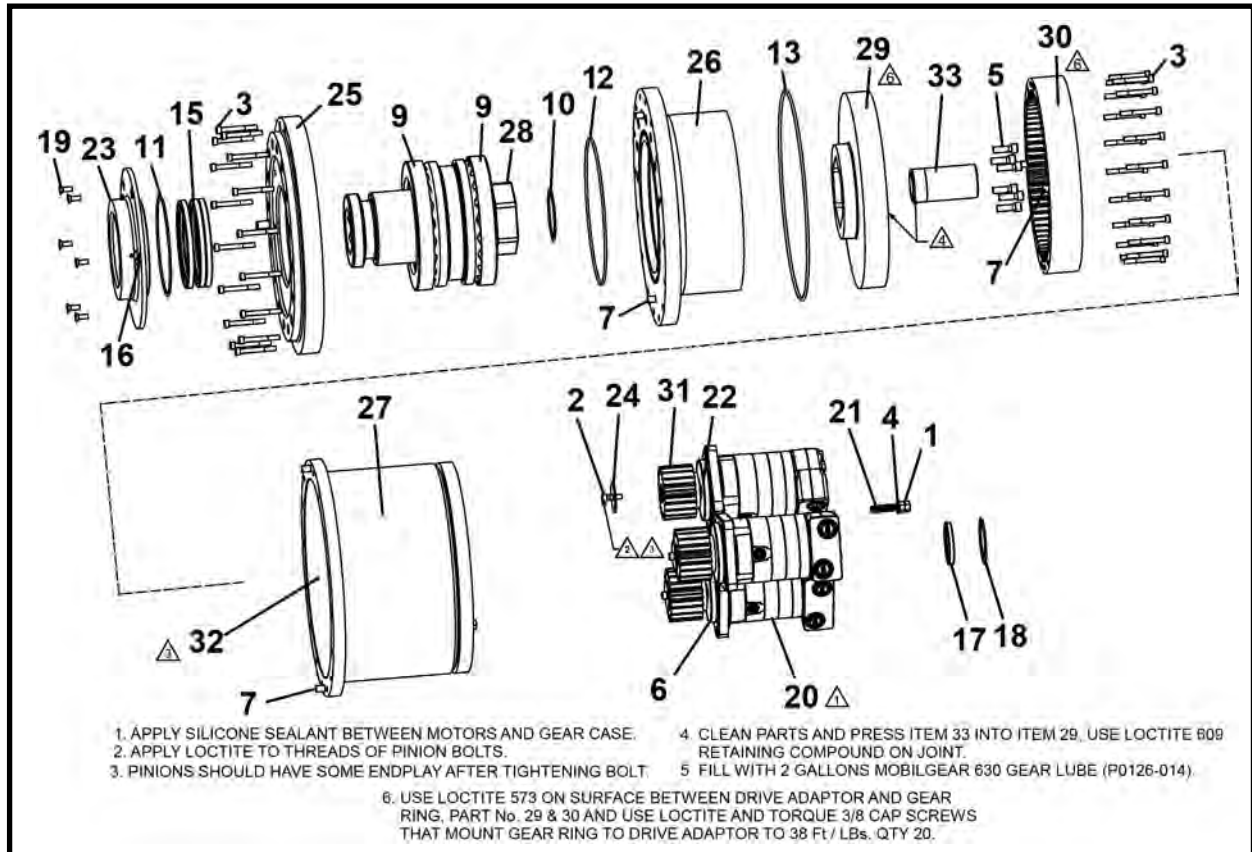


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA48030F	PRH DRIVE ASSEMBLY 20,000 FT-LBS
1*	1	A448028A	GEARBOX ASSEMBLY
2**	1	A48034A	HYDRAULIC DRIVE ASSEMBLY
3	1	A48042P	COUPLER
4	1	A48043P	PLATE, Hex Retainer
5	1	A48044P	PLATE, Gearbox Adapter
6	1	A48046P	COUPLER, Hex
7	1	A48058A	AUGER, Drive
8	16	P0031-12-020	SCREW, Socket Head Cap 3/4 UNC x 5
9	4	P0031-08-010	SCREW, Socket Head Cap 1/2 UNC x 2.5
10	2	P0031-08-009	SCREW, Socket Head Cap 1/2 UNC x 2.25
11	4	P0030S-12-017	BOLT, Socket Head Shoulder 3/4 x 3
12	2	P0300-362	FITTING, 04MFOR-04MB
13	1	P0300-138	FITTING, 06MJ-06MJ-06MJ
14	1	A10060A-024	HOSE ASSEMBLY 1/4 x 24
15	2	A10315A-017	HOSE ASSEMBLY 1/4 x 17
16	1	P0001-16-024	BOLT, 1 UNC x 6
17	1	P0013-16-000	NUT, Nylok 1

* Refer to this section for parts information.

** Refer to section 6, Hydraulics for parts information.

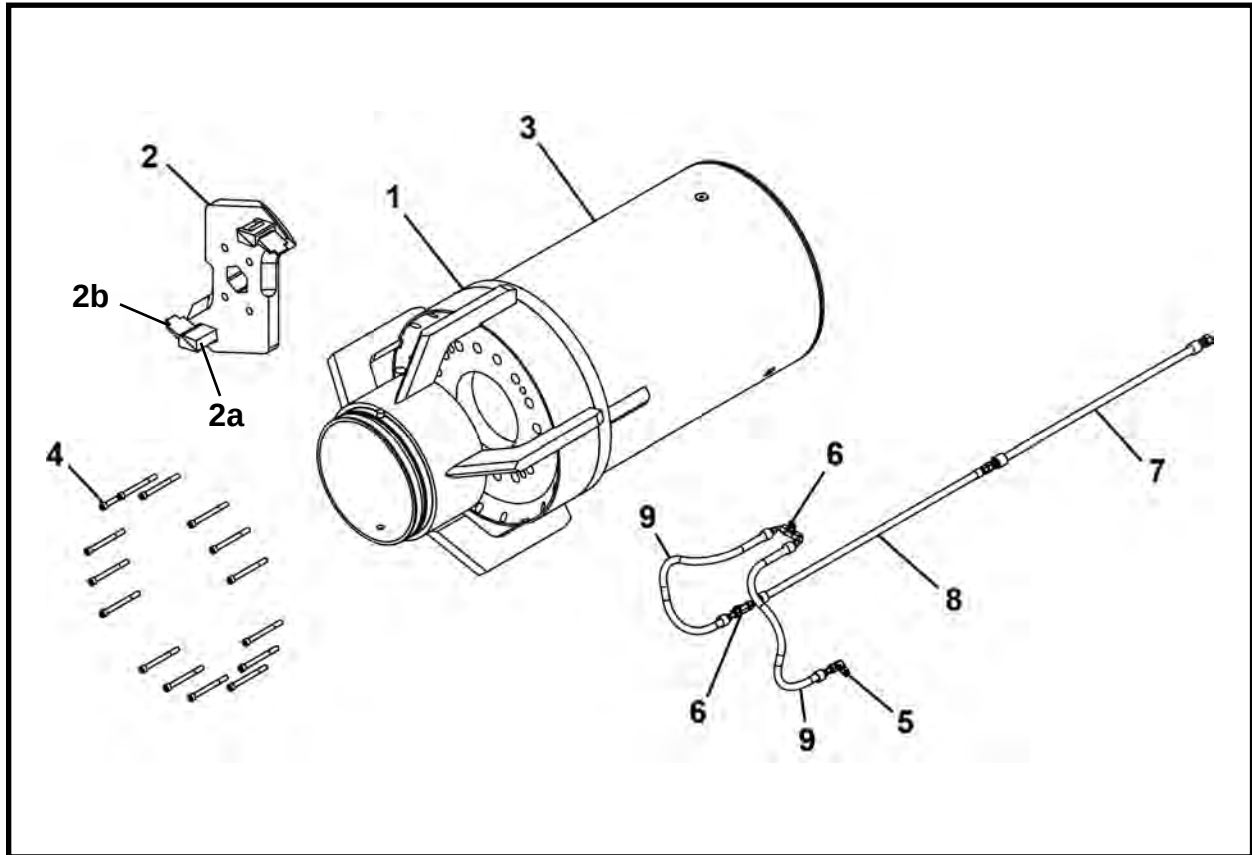
GEARBOX ASSEMBLY, A48028A
POWERED REAMING HEAD Series II (20,000 ft-lb)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A48028A	GEARBOX ASSEMBLY
1	24	P0003-08-000	NUT, Hex 1/2 UNC
2	3	P0031-06-004	SCREW, Socket Head Cap 3/8 UNC x 1
3	36	P0031-06-012	SCREW, Socket Head Cap 3/8 UNC x 3
4	12	P0040-008	WASHER, Hardened Flat 1/2
5	6	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
6	3	P0085-249	ORING
7	6	P0037-064	PIN, Dowel
8	1	P0037-076	PIN, Dowel
9	2	P0065-213	BEARING, Thrust Block
10	1	P0085-241	ORING
11	1	P0085-266	ORING
12	1	P0085-381	ORING
13	1	P0085-386	ORING
14	3	P0300-027	PLUG, 06MB-PLUG
15	3	P0080-039	SEAL
16	3	P0063-001	GREASE FITTING, Straight
17	1	P0080-038	SEAL
18	1	P0076-059	SNAP RING
19	6	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
20*	3	P0304-165	MOTOR, Hydraulic
21	12	P0025-005A	STUD
22	3	A43191P	WASHER
23	1	A46654P	COVER, Seal
24	3	A43863P	WASHER, Pinion
25	1	A44368P	COVER, Front
26	1	A44369P	COVER, Rear
27	1	A46693A	BULKHEAD, Auger Drive
28	1	A46641P	SHAFT, Drive
29	1	A46643P	ADAPTER, Drive
30	1	A44373P	GEAR RING
31	3	A44374P	PINION
32	8 QT	P0126-014	LUBE, Mobilgear 630 Gear
33	1	A46642P	SIGHT TUBE

* Refer to Section 8, Motors for parts information. QT - Quart

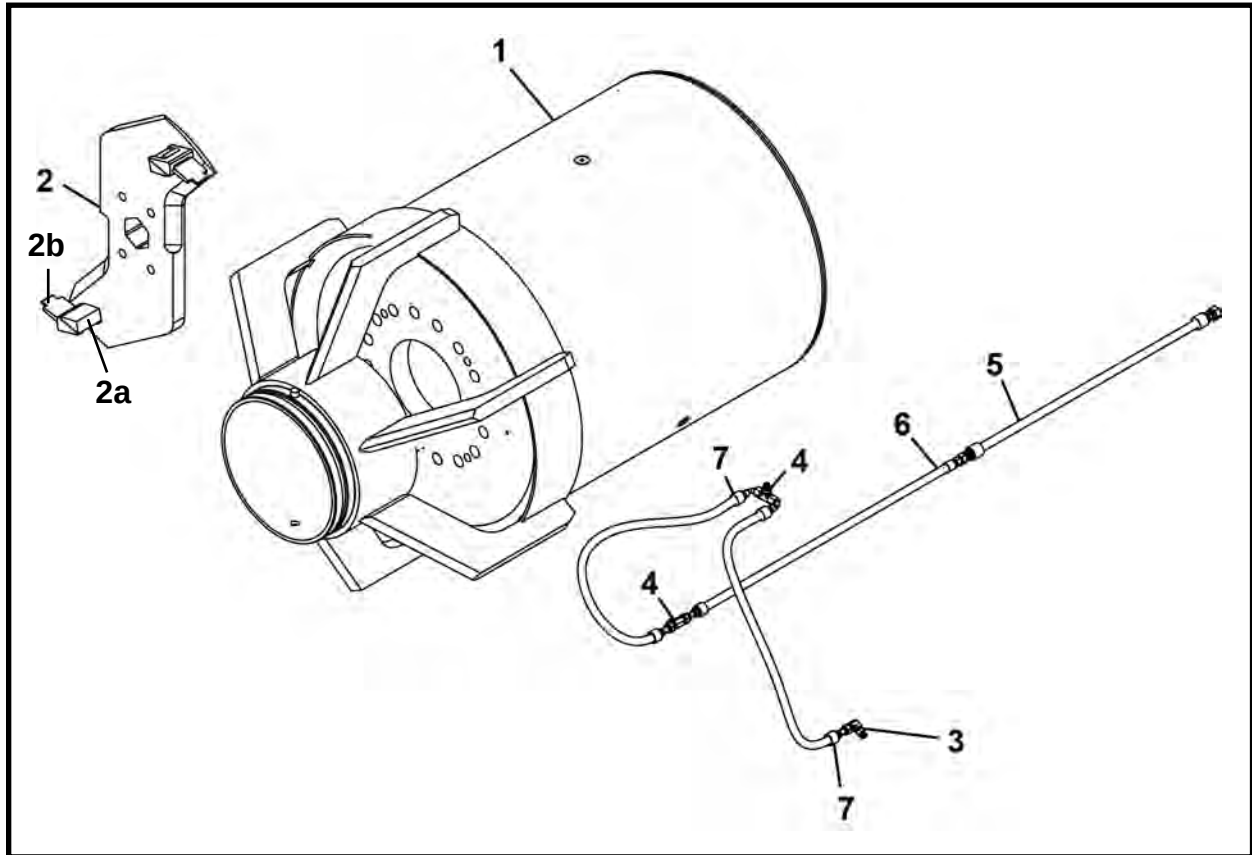
16" TO 23.6" OD PRH SERIES II SKIN ASSEMBLY, FA48031F
POWERED REAMING HEAD Series II 20k Skin



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA48031F	PRH Series II 20k SKIN ASSEMBLY, 16" TO 23.6" OD
1	1	A48032A	HEAD
2	1	A48033A	CUTTERHEAD (Includes items 2a - 2b)
2a	2	P0051-001	POCKET, Tooth
2b	2	P0050-001	TEETH, Cutter
3	1	A48041A	CAN
4*	15	P0031-08-020	SCREW, Socket Head 1/2 x 5
5	1	P0300-355	FITTING, 06MFOR-06MB90
6	2	P0300-376	FITTING, 06MFOR-06MFOR-06MB
7	1	A09919A-034	HOSE ASSEMBLY, 1/2 x 34
8	1	A09980A-036	HOSE ASSEMBLY, 3/8 x 36
9	2	A10079A-034	HOSE ASSEMBLY, 3/8 x 34

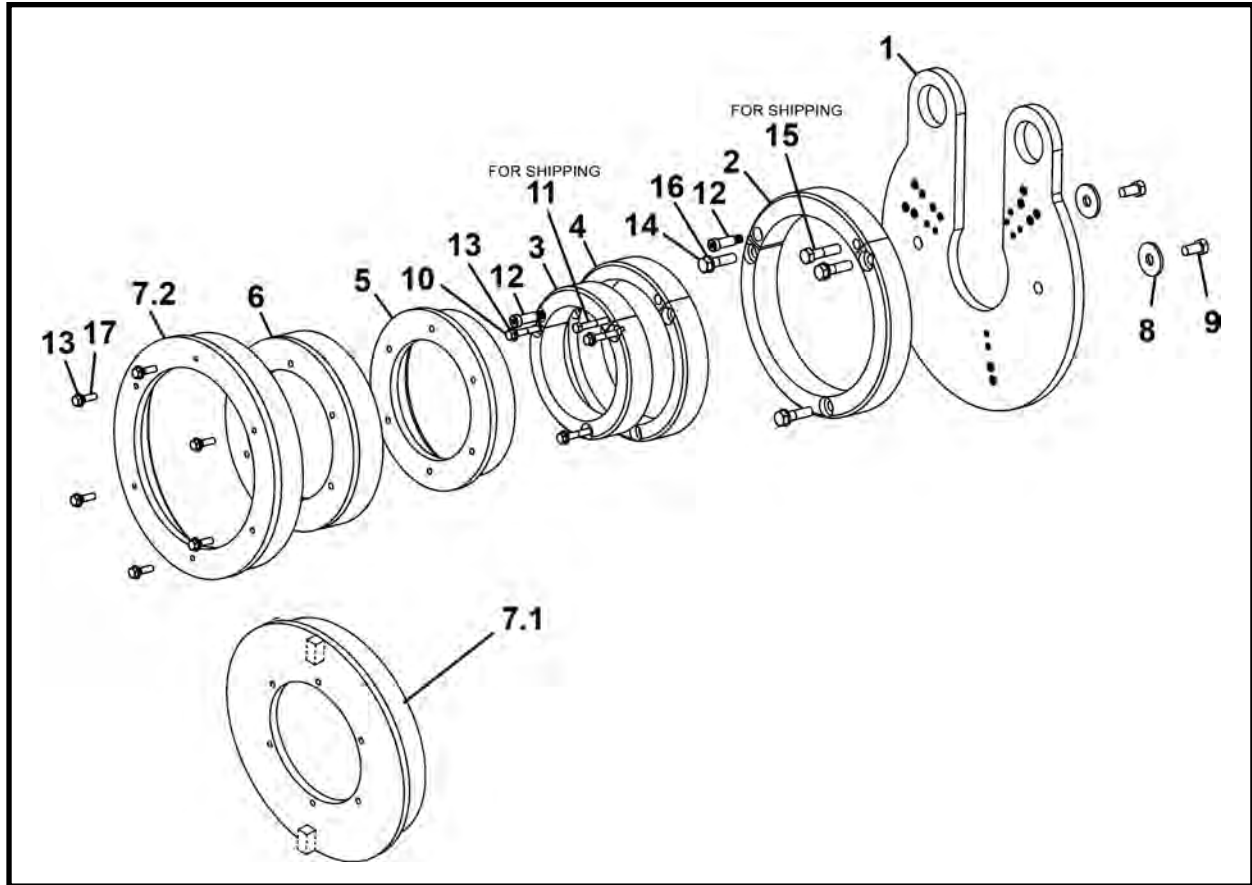
* Tighten to 93 ft-lb torque (lubricated).

16" TO 30.5" OD PRH SERIES II SKIN ASSEMBLY, FA48047F
POWERED REAMING HEAD Series II 20k Skin



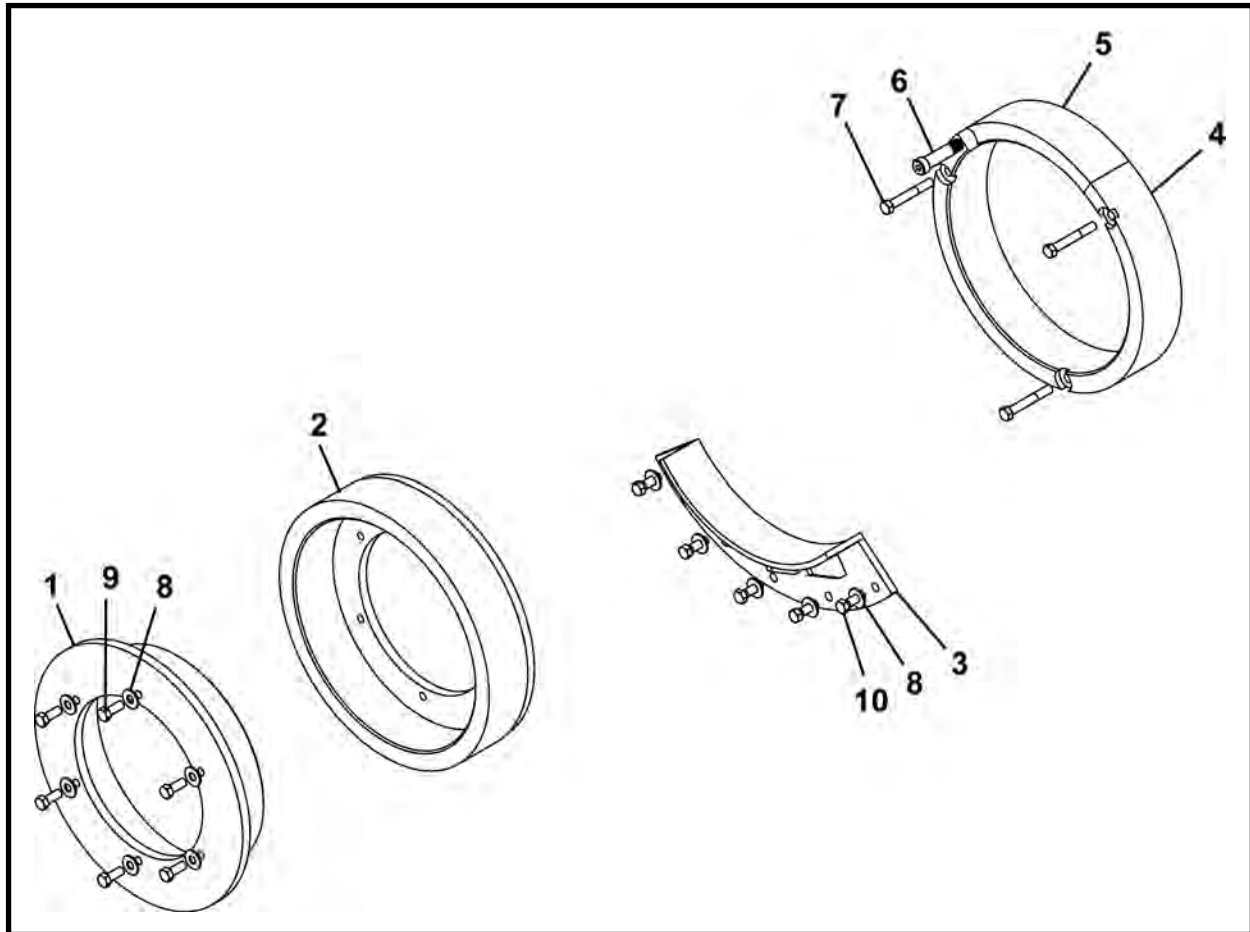
ITEM	QTY	PART NO.	DESCRIPTION
0		FA48047F	PRH Series II SKIN ASSEMBLY, 16" TO 30.5" OD
1	1	A48048A	HEAD
2	1	A48053A	CUTTERHEAD(Includes items 2a - 2b)
2a	2	P0051-001	POCKET, Tooth
2b	2	P0050-001	TEETH, Cutter
3	1	P0300-355	FITTING, 06MFOR-06MB90
4	2	P0300-376	FITTING, 06MFOR-06MFOR-06MB
5	1	A09919A-034	HOSE ASSEMBLY, 1/2 x 34
6	1	A09980A-036	HOSE ASSEMBLY, 3/8 x 36
7	2	A10079A-040	HOSE ASSEMBLY, 3/8 x 40

PIPE ADAPTER SET 10 - 12 - 15 No-Dig, FA45428F
POWERED REAMING HEAD Series II (SN FA45200F-6 & AFTER)



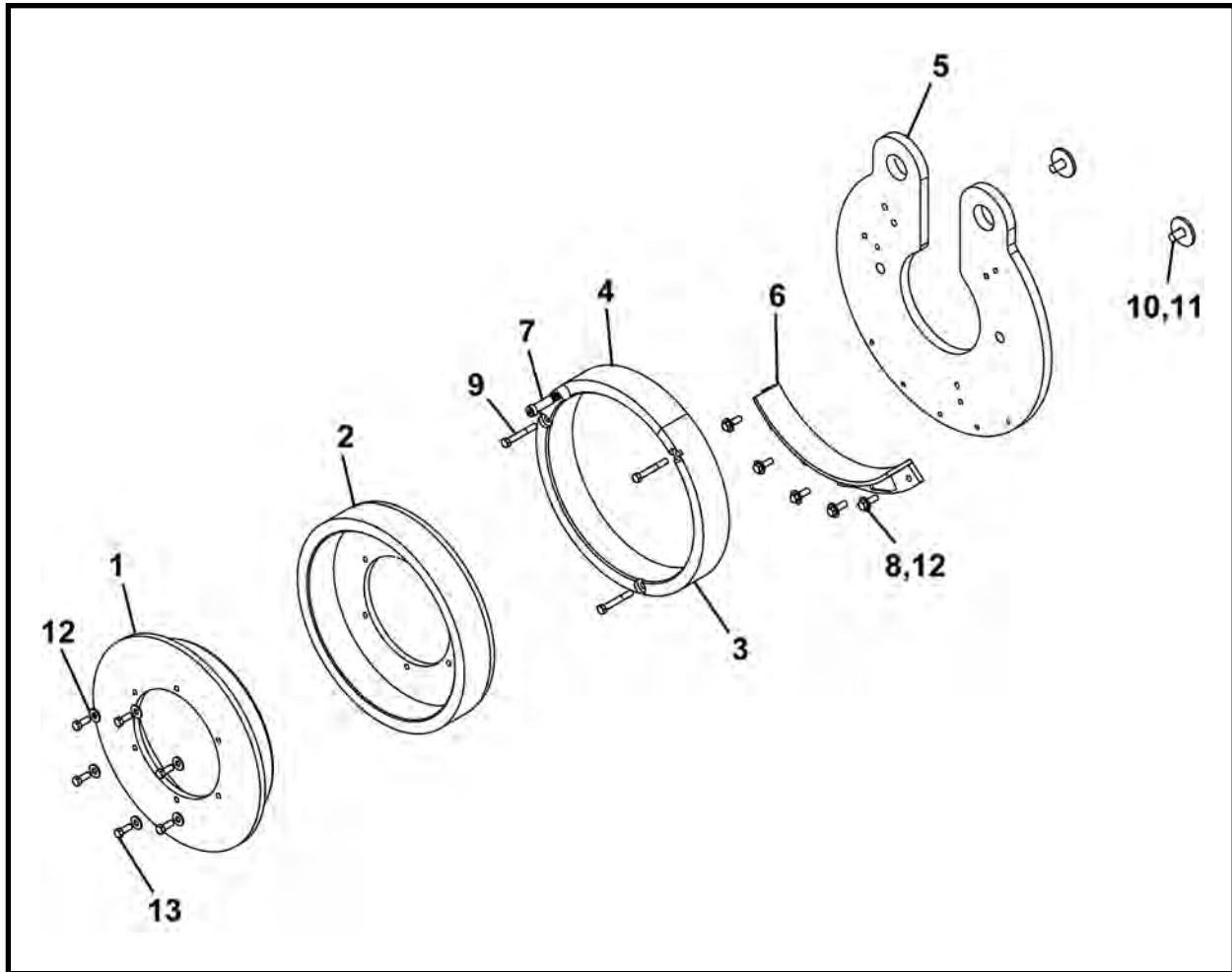
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45428F	PIPE ADAPTER SET 10 - 12 - 15 No-Dig
1	1	A45430A	WELD PRH NO-DIG THRUST ADAPTER
2	1	A43171P	RING, Thrust
3	1	A45434P	RING, Thrust
4	1	A45432P	RING, Thrust
5	1	A45394A	ADAPTER, 10" No-Dig
6	1	A45397A	ADAPTER, 12" No-Dig
7.1	1	A45300A	ADAPTER, 15" No-Dig (SN FA45200F-1 thru 5)
7.2	1	A43136A	ADAPTER, 15" No-Dig (PCH20) (PRH SN FA45200F-6 & After)
8	2	004124P01	WASHER
9	2	P0001-12-006	BOLT, Hex 3/4 UNC x 1.5
10	3	P0001-08-011	BOLT, Hex 1/2 UNC x 2.75
11	1	P0001-08-012	BOLT, Hex 1/2 UNC x 3
12	2	P0030S-12-007	BOLT, Shoulder 3/4 x 1.75
13	9	P0040-008	WASHER, Flat Hardened 1/2
14	3	P0001-12-011	BOLT, Hex 3/4 UNC x 2.75
15	1	P0001-12-012	BOLT, Hex 3/4 UNC x 3
16	3	P0040-012	WASHER, Flat Hardened 3/4
17	6	P0001-08-007	BOLT, Hex 1/2 UNC x 1.75

PIPE ADAPTER SET 300MM ID RCP, A45724A
POWERED REAMING HEAD



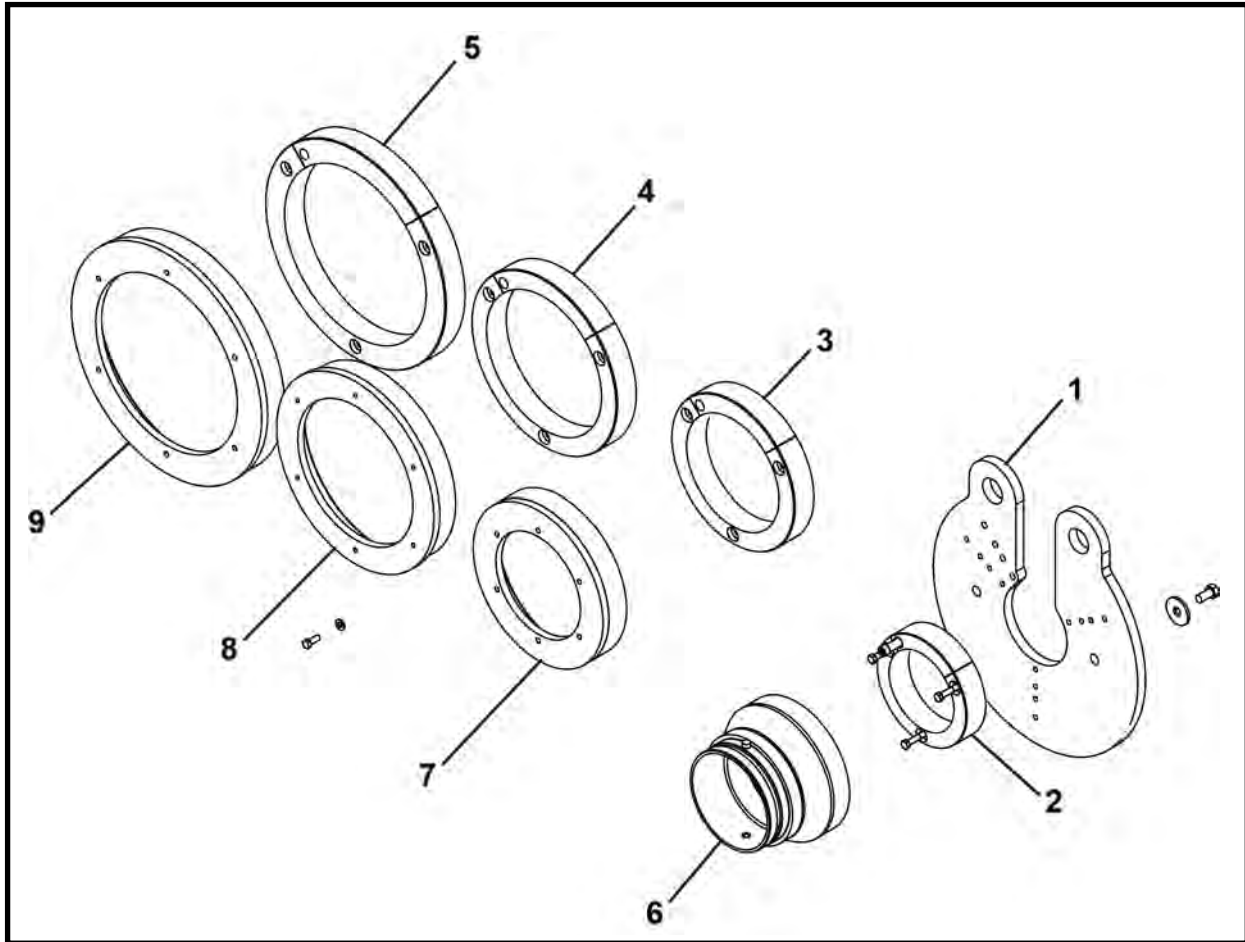
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45724A	PIPE ADAPTER SET 300MM ID RCP
1	1	A45726A	ADAPTER, Bell
2	1	A45729A	ADAPTER, Spigot
3	1	A45760A	ADAPTER, Thrust
4	1	A45746P	ADAPTER, Fixed Spigot
5	1	A45747P	ADAPTER, Hinged Spigot
6	1	P0030S-12-010	SCREW, Socket Head Shoulder
7	3	P0001-08-014	BOLT, 1/2 UNC x 3.5
8	11	P0040-008	WASHER, Hardened Flat 1/2
9	6	P0001-08-005	BOLT, 1/2 UNC x 1.25
10	5	P0001-08-006	BOLT, 1/2 UNC x 1.5

PIPE ADAPTER SET 375MM ID RCP, A45725A
POWERED REAMING HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45725A	PIPE ADAPTER SET 375MM ID RCP
1	1	A45733A	ADAPTER, Bell
2	1	A45736A	ADAPTER, Spigot
3	1	A45744P	ADAPTER, Fixed Spigot
4	1	A45745P	ADAPTER, Hinged Spigot
5	1	A45748A	PLATE, Thrust
6	1	A45749A	ADAPTER, Thrust
7	1	P0030S-12-010	SCREW, Socket Head Shoulder
8	5	P0001-08-006	BOLT, 1/2 UNC x 1.5
9	3	P0001-08-014	BOLT, 1/2 UNC x 3.5
10	2	P0001-12-006	BOLT, 3/4 UNC x 1.5
11	2	004124P01	WASHER
12	11	P0040-008	WASHER, Hardened Flat 1/2
13	6	P0001-08-005	BOLT, 1/2 UNC x 1.25

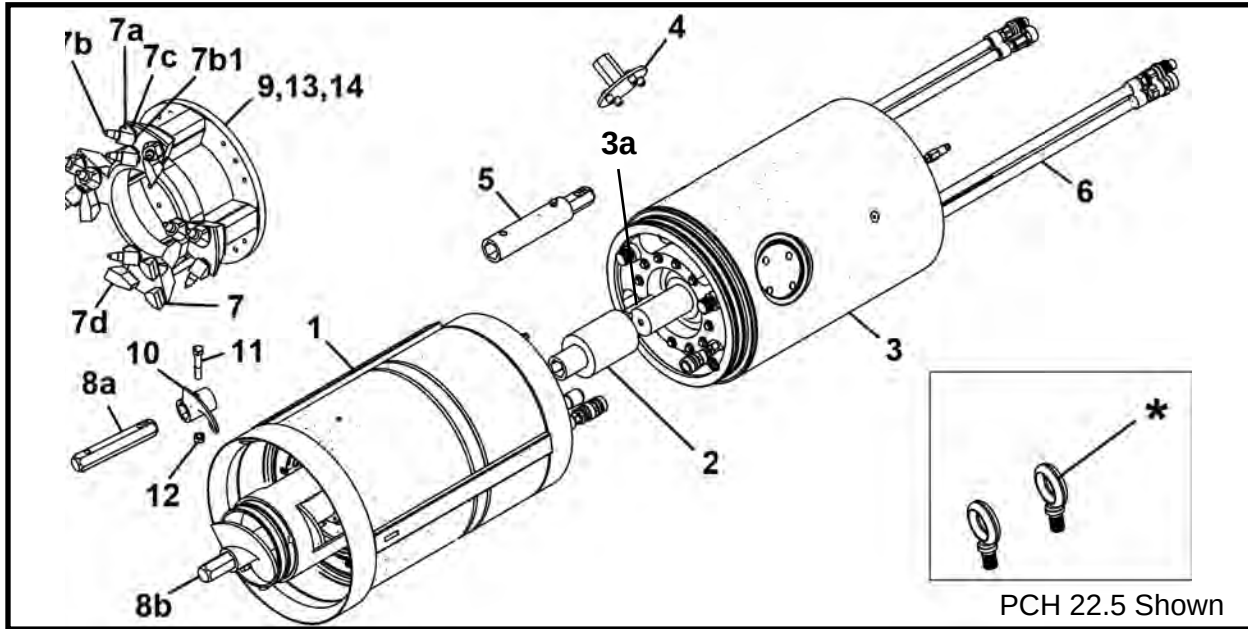
PIPE ADAPTER SET, SUPERRAM - VCP, FA47951F
POWERED REAMING HEAD
DN250 - DN300 - DN375 - DN450



ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA47951F	PIPE ADAPTER ASSEMBLY, VCP DN225 - 450
1	1	A47950A	THRUST PLATE, Superram DN225-450
2	1	A47948P	THRUST RING, Superram DN225
3	1	A47947P	THRUST RING, Superram DN300
4	1	A47946P	THRUST RING, Superram DN375
5	1	A47945P	THRUST RING, Superram DN450
6	1	A47944A	PIPE ADAPTER, Superram DN225
7	1	A47940A	PIPE ADAPTER, Superram DN300
8	1	A47937A	PIPE ADAPTER, Superram DN375
9	1	A47934A	PIPE ADAPTER, Superram DN450

POWERED CUTTER HEAD ASSEMBLY

PCH 20 - 22.5 - 28.5



PCH 22.5 Shown

ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA43100F	POWERED CUTTER HEAD, PCH 20
0.2	1	FA42850F	POWERED CUTTER HEAD, PCH 22.5
0.3	1	FA43000F	POWERED CUTTER HEAD, PCH 28.5
1.1**	1	A43160A	FRONT SECTION ASSEMBLY, PCH 20
1.2**	1	A42900A	FRONT SECTION ASSEMBLY, PCH 22.5
1.3**	1	A43641A	FRONT SECTION ASSEMBLY, PCH 28.5
2	1	A42954A	COUPLER
3.1**	1	A43161A	REAR SECTION ASSEMBLY, PCH 20 (Includes item 3a)
3.2**	1	A42901A	REAR SECTION ASSEMBLY, PCH 22.5 (Includes item 3a)
3.3**	1	A43623A	REAR SECTION ASSEMBLY, PCH 28.5 (Includes item 3a)
3a	1	A43188P	KEY
4	1	A03150A	WRENCH, Port Hole
5	1	A42963A	EXTENSION, Hex Tube
6.1***	1	A43162A	HYDRAULICS ASSEMBLY, PCH 20
6.2***	1	A42902A	HYDRAULICS ASSEMBLY, PCH 22.5
6.3***	1	A43654A	HYDRAULICS ASSEMBLY, PCH 28.5
7.1	1	A43154A	CUTTER HEAD ASSEMBLY, PCH 20
7.2	1	A42929A	CUTTER HEAD ASSEMBLY, PCH 22.50
7.3	1	A43610A	CUTTER HEAD ASSEMBLY, PCH 28.5
7a	A/R	P0051-021	HOLDER, Bit
7b	A/R	P0050-045	CUTTER BIT (Includes item 7b1)
7b1	A/R	P0050-045A	LOCK RING
7c	A/R	A43159P	PAD
7d	A/R	P0050-041A	TOOTH
8a+	1	A43312P	CONNECTOR, Hex Head
8b^	1	A42135P	SHAFT, Hex End
9.1	1	FA43195F	BASE, Cutter Face, PCH 20
9.2	1	FA42995F	BASE, Cutter Face, PCH 22.5
9.3	1	FA43595F	BASE, Cutter Face, PCH 28.5
10+	1	A43311A	AUGER - 11 OD Casing
11+	1	P0001-12-016	BOLT, Hex 3/4 UNC x 4
12+	1	P0003-12-000	NUT, 3/4
13	12	P0001-08-008	BOLT, Hex 1/2 UNC x 2
14	12	P0040-008	WASHER, Flat 1/2

A/R - As Required

* Earlier units were equipped with two lift eyes, A02193P0 (and P0300-239 plugs) for lowering and lifting the rear section in and out of the shaft. Later models require the use of lifting straps for lowering and lifting the rear section in and out of the shaft. Use properly rated lifting straps for the weight of the PCH.

** Refer to this section for parts information. *** Refer to section 6, Hydraulics for parts information.

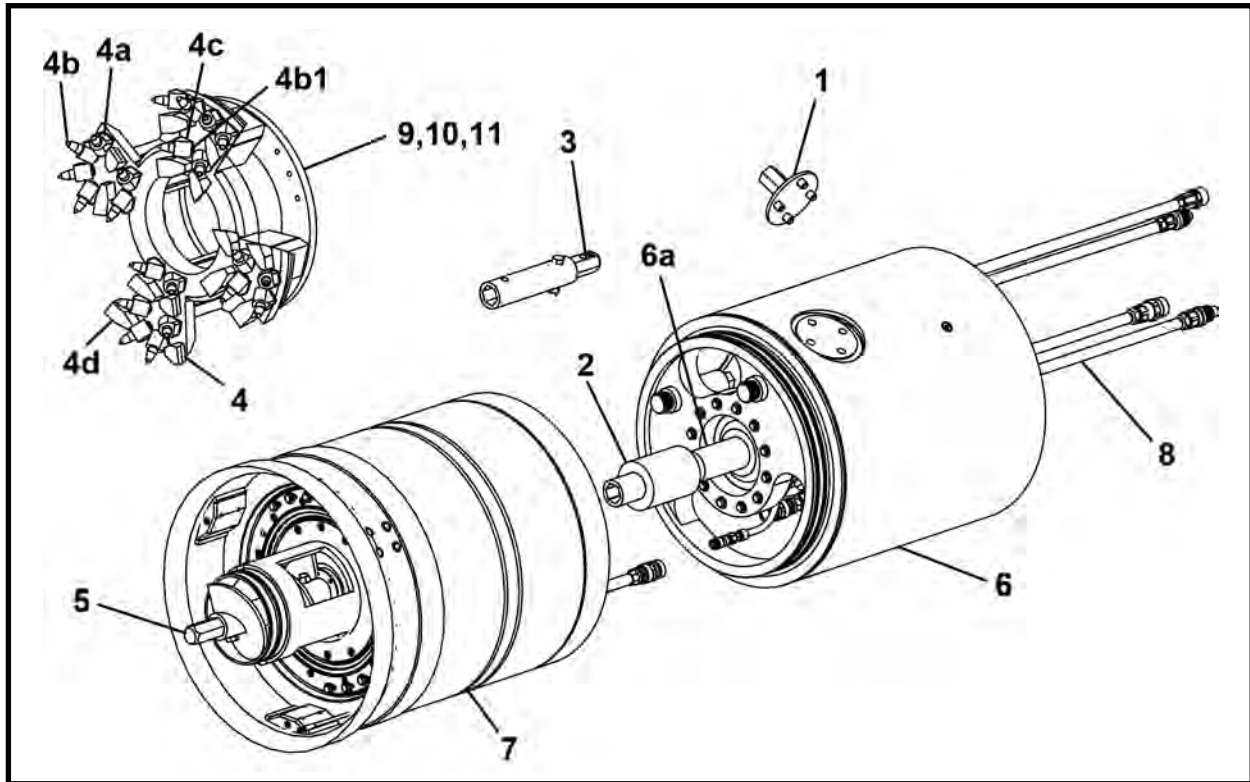
+ PCH20 sn FA43100F-6 & Before, PCH22.5-18 & Before, PCH28.5 sn FA43000F-13 & Before

^ PCH20 sn FA43100F-7 & After, PCH22.5-19 & After, PCH28.5 sn FA43000F-14 & After

NOTE on +: Items 8a, and 10 can be replaced with the latest front section auger A42985A and item 8b, A42135P, Shaft.

POWERED CUTTER HEAD ASSEMBLY, FA47952F

PCH 30.5



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA47952F	POWERED CUTTER HEAD, PCH 30.5
1	1	A03150A	WRENCH, Port Hole
2	1	A42954A	COUPLER
3	1	A42963A	EXTENSION, Hex Tube
4	1	A47953A	CUTTER HEAD ASSEMBLY, PCH 30.5 (Includes items 4a-4d)
4a	A/R	P0051-021	HOLDER, Bit
4b	A/R	P0050-045	CUTTER BIT (Includes item 4b1)
4b1	A/R	P0050-045A	LOCK RING
4c	A/R	A43159P	PAD
4d	A/R	P0050-041A	TOOTH
5	1	A42135P	SHAFT, Hex End
6*	1	A47954A	REAR SECTION ASSEMBLY, PCH 30.5 (Includes item 6a)
6a	1	A43188P	KEY
7*	1	A47959A	FRONT SECTION ASSEMBLY, PCH 30.5
8**	1	A43654A	HYDRAULICS ASSEMBLY, PCH 28.5/30.5
9	1	A47971A	BASE, Cutter Face, PCH 30.5
10	12	P0001-08-008	BOLT, Hex 1/2 UNC x 2
11	12	P0040-008	WASHER, Hardened Flat 1/2

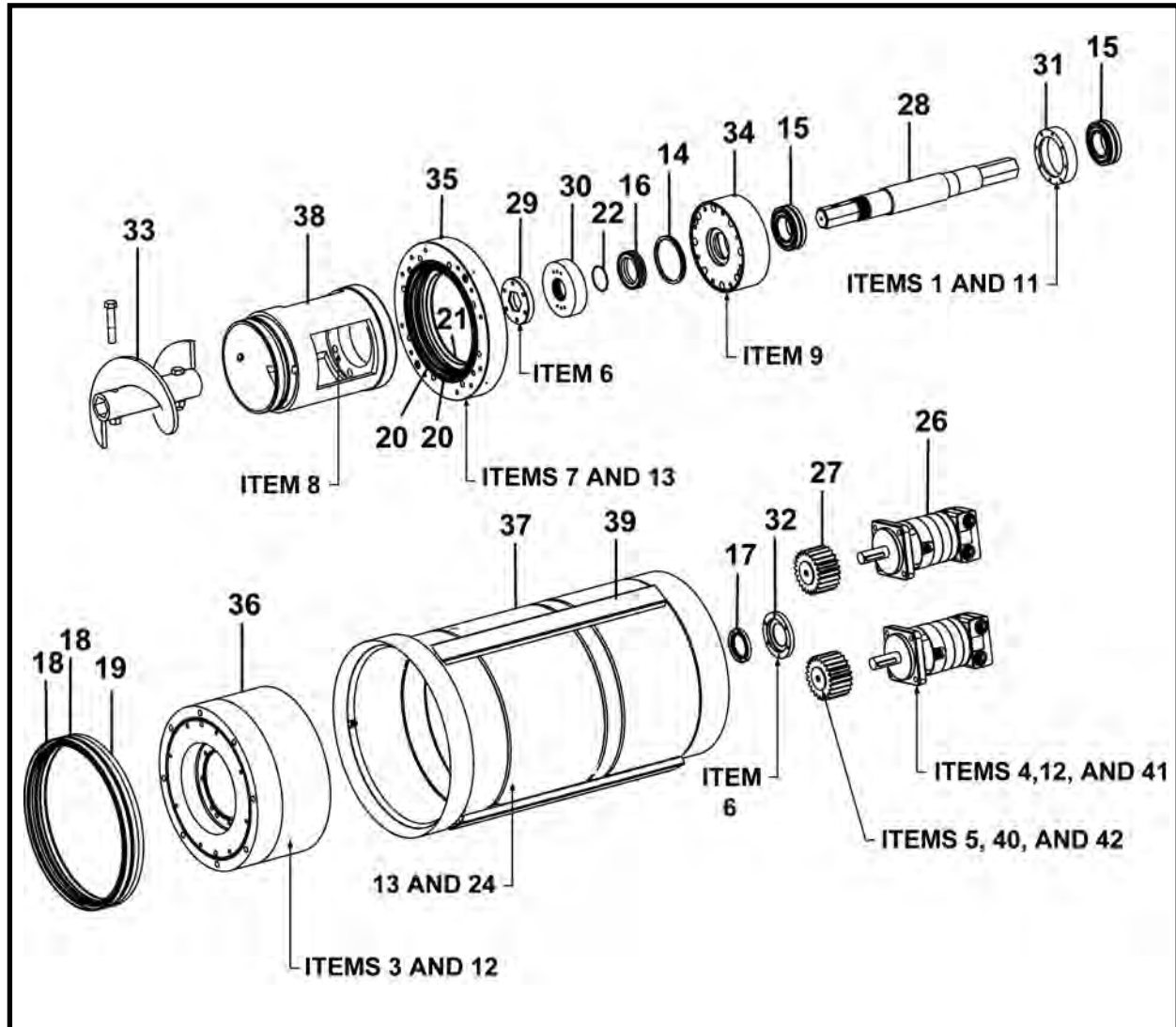
A/R - As Required

* Refer to this section for parts information.

** Refer to section 6, Hydraulics for parts information.

PCH 20 FRONT SECTION ASSEMBLY, A43160A

PCH 20 (SN FA43100F-1 THRU 3)



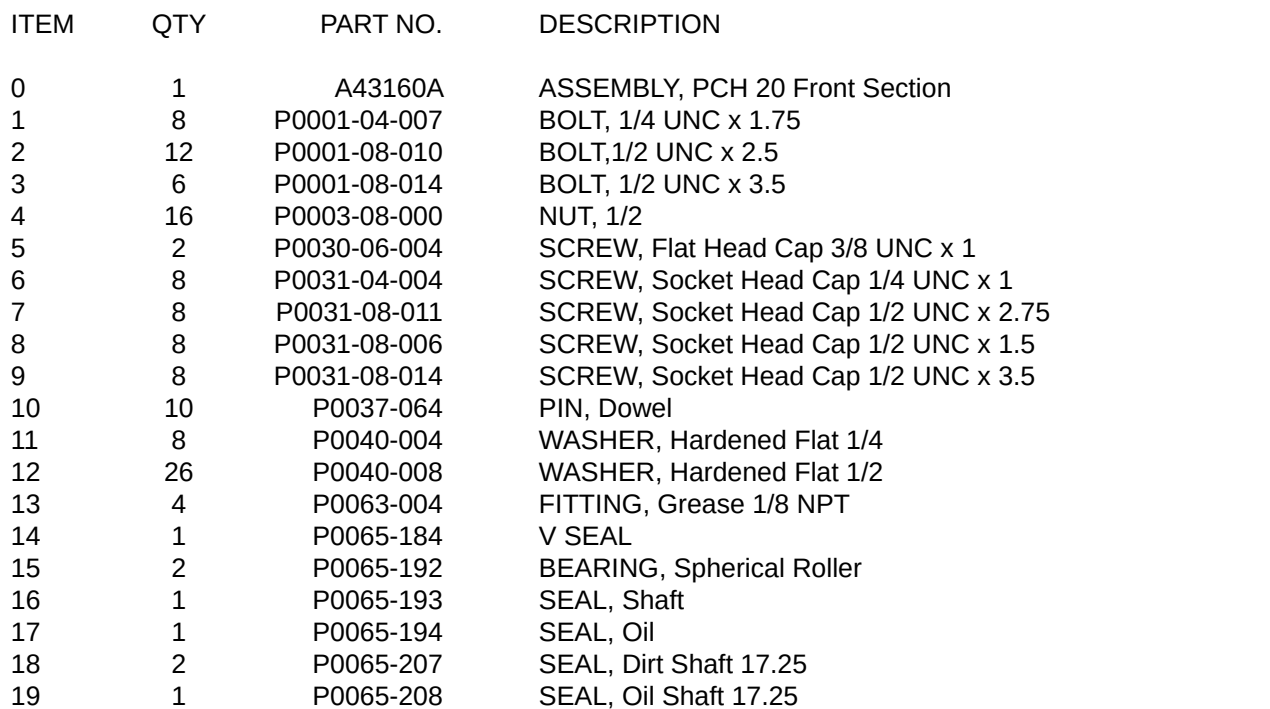
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43160A	ASSEMBLY, PCH 20 Front Section
1	8	P0001-04-007	BOLT, 1/4 UNC x 1.75
2	12	P0001-08-010	BOLT, 1/2 UNC x 2.5
3	6	P0001-08-014	BOLT, 1/2 UNC x 3.5
4	16	P0003-08-000	NUT, 1/2
5	2	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
6	8	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
7	8	P0031-06-010	SCREW, Socket Head Cap 3/8 UNC x 2.5
8	8	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
9	8	P0031-08-014	SCREW, Socket Head Cap 1/2 UNC x 3.5
10	10	P0037-064	PIN, Dowel
11	8	P0040-004	WASHER, Hardened Flat 1/4
12	26	P0040-008	WASHER, Hardened Flat 1/2
13	4	P0063-004	FITTING, Grease 1/8 NPT
14	1	P0065-184	V SEAL
15	2	P0065-192	BEARING, Spherical Roller
16	1	P0065-193	SEAL, Shaft
17	1	P0065-194	SEAL, Oil
18	2	P0065-207	SEAL, Dirt Shaft 17.25
19	1	P0065-208	SEAL, Oil Shaft 17.25

PCH 20 FRONT SECTION ASSEMBLY, A43160A**PCH 20 (SN FA43100F-1 THRU 3)**

ITEM	QTY	PART NO.	DESCRIPTION
20	2	P0065-209	SEAL, Oil Shaft 11.25
21	1	P0065-210	SEAL, Dirt
22	1	P0085-145	ORING
23	20 QT	P0126-014	LUBE, Mobilgear 630 Gear
24	2	P0300-185	FITTING, 04MB-PLUG
25	2	P0300-193	FITTING, 08MB-PLUG
26	2	P0304-165	MOTOR, Hydraulic (Includes item 26a)
26a	2	P0304-165A	SEAL, Shaft
27	2	A42880P	PINION
28.1	1	A42887P	SHAFT, Auger Drive (SN FA43100F-1)
28.2	1	A44822P	SHAFT, Auger Drive (SN FA43100F-2 & 3)
29	1	A42888P	PLATE, Front Seal Retainer
30	1	A46668P	HOUSING, Front Auger Seal
31	1	A42891P	HOLDER, Auger Shaft Bearing
32	1	A42892P	PLATE, Rear Seal Retainer
33	1	A42931A	ASSEMBLY, Auger (Includes item 33a)
33a	2	P0001-12-016	BOLT, 3/4 UNC x 4
34	1	A43104P	BULKHEAD, Front
35	1	A43106P	SEAL RING
36.1	1	A43120A	ASSEMBLY, Drive Bearing (SN FA43100F-1)
36.2	1	A44556A	ASSEMBLY, Drive Bearing (SN FA43100F-2 & 3)
37	1	A43124A	WELDMENT, Lead Section
38.1	1	A42930A	WELDMENT, Casing Adapter (SN FA43100F-1)
38.2	1	A43150A	WELDMENT, Casing Adapter (SN FA43100F-2 & 3)
39	3	A43184P	COVER, Jetting
40	2	A43189P	WASHER, Pinion
41	8	P0025-005A	STUD 1/2 x 3
42	2	A43191P	WASHER

QT - Quart

PCH 20 (SN FA43100F-4 & 5)



PCH 20 FRONT SECTION ASSEMBLY, A43160A**PCH 20 (SN FA43100F-4 & 5)**

ITEM	QTY	PART NO.	DESCRIPTION
20	2	P0065-209	SEAL, Oil Shaft 11.25
21	1	P0065-210	SEAL, Dirt
22	1	P0085-145	ORING
23	20 QT	P0126-014	LUBE, Mobilgear 630 Gear
24	2	P0300-026	PLUG, 04MP-HHP
25	2	P0300-079	PLUG, 08MP-HHP
26*	2	P0304-165	MOTOR, Hydraulic (Includes item 26a)
26a	2	P0304-165A	SEAL, Shaft
27	2	A42880P	PINION
28**	1	A46667P	SHAFT, Auger Drive
29	1	A42888P	PLATE, Front Seal Retainer
30	1	A46668P	HOUSING, Front Auger Seal
31	1	A42891P	HOLDER, Auger Shaft Bearing
32	1	A42892P	PLATE, Rear Seal Retainer
33	1	A42931A	ASSEMBLY, Auger (Includes item 33a)
33a	2	P0001-12-016	BOLT, 3/4 UNC x 4
34^	1	A43104P	BULKHEAD, Front
35+	1	A45101P	RING, Seal
36+	1	A44556A	ASSEMBLY, Drive Bearing
37	1	A43124A	WELDMENT, Lead Section
38	1	A43150A	WELDMENT, Casing Adapter
39	3	A43184P	COVER, Jetting
40	2	A43189P	WASHER, Pinion
41***	8	P0025-005A	STUD 1/2 x 3
42	2	A43191P	WASHER
43^	1	A45071P	WEAR PLATE, Bulkhead Front
44	6	P0030-04-002	SCREW, Flat Head Cap 1/4 UNC x 1/2
45.1**	A/N	A46289P	SHIM, PCH Drive Shaft .250
45.2**	A/N	A46290P	SHIM, PCH Drive Shaft .260
45.3**	A/N	A46291P	SHIM, PCH Drive Shaft .270
45.4**	A/N	A46292P	SHIM, PCH Drive Shaft .280

QT - Quart

A/N - As Needed

* Seal drive motors (26) to motor housing with silicone sealant to make joint liquid tight.

** Set drive shaft end play at .010" - .020" with appropriate shim.

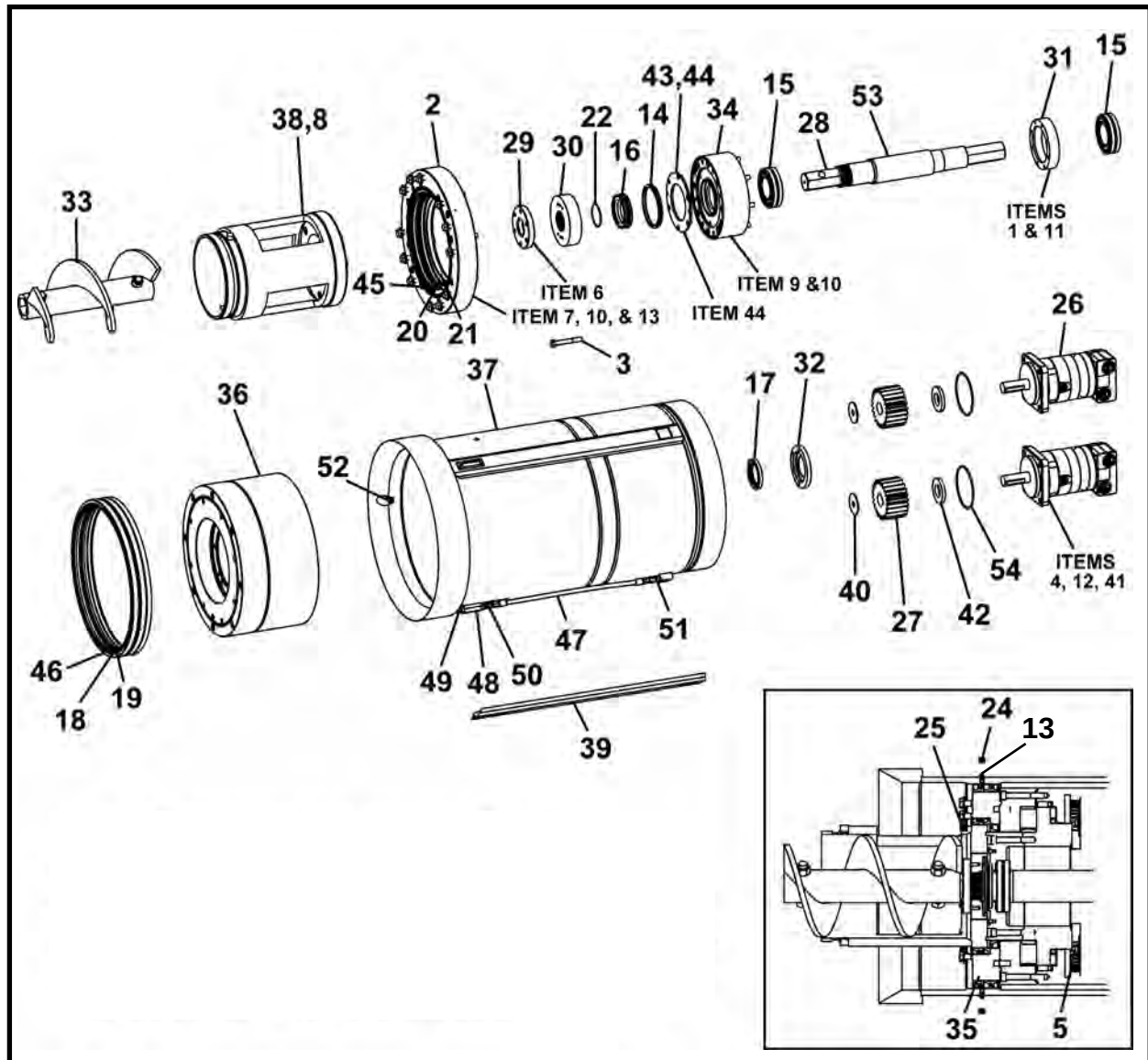
*** Apply thread sealant to motor studs (41).

^ Apply a thin layer of silicone between items 43 and 34.

+ Mating surfaces of items 35 and 36 must be clean and free of oil.

PCH 20 FRONT SECTION ASSEMBLY, A43160A

PCH 20 (SN FA43100F-6 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43160A	FRONT SECTION ASSEMBLY, PCH 20
1	8	P0001-04-007	BOLT, 1/4 UNC x 1.75
2	12	P0001-08-008	BOLT, 1/2 UNC x 2
3	6	P0001-08-014	BOLT, 1/2 UNC x 3.5
4	16	P0003-08-000	NUT, 1/2
5	2	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
6	8	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
7	8	P0031-08-011	SCREW, Socket Head Cap 1/2 UNC x 2.75
8	8	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
9	8	P0031-08-014	SCREW, Socket Head Cap 1/2 UNC x 3.5
10	10	P0037-064	PIN, Dowel
11	8	P0040-004	WASHER, Hardened Flat 1/4
12	26	P0040-008	WASHER, Hardened Flat 1/2
13@	4	P0063-004	FITTING, Grease 1/8 NPT
14	1	P0065-184	V SEAL
15	2	P0065-192	BEARING, Spherical Roller
16	1	P0065-193	SEAL, Shaft

(continued on next page)

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PCH 20 FRONT SECTION ASSEMBLY, A43160A

PCH 20 (SN FA43100F-6 & AFTER)

ITEM	QTY	PART NO.	DESCRIPTION
17	1	P0065-194	SEAL, Oil
18	1	P0065-207	SEAL, Dirt, Shaft 17.25
19	1	P0065-261	SEAL, Oil, Shaft 17.25
20	1	P0065-209	SEAL, Dirt, Shaft 11.25
21	1	P0065-210	SEAL, Oil, Shaft 9.88
22	1	P0085-145	ORING
23*	20 QT	P0126-014	LUBE, Mobilgear 630 Gear
24@	2	P0300-026	PLUG, 04MB-HHP
25	2	P0300-079	PLUG, 08MB-HHP
26**, ++	2	P0304-165	MOTOR, Hydraulic (Includes item 26a)
26a	1 each	P0304-165A	SEAL, Shaft
27	2	A42880P	PINION
28***	1	A46667P	SHAFT, Auger Drive
29	1	A42888P	PLATE, Front Seal Retainer
30<	1	A46668P	HOUSING, Seal
31	1	A42891P	HOLDER, Auger Shaft Bearing
32	1	A42892P	PLATE, Rear Seal Retainer
33.1	1	A42931A	AUGER ASSEMBLY (Includes item 33a) (SN FA43000F-6 & Before)
33.2	1	A42985A	AUGER ASSEMBLY (Includes item 33a) (SN FA43000F-7 & After)
33a	2	P0001-12-016	BOLT, 3/4 UNC x 4
34^^	1	A43104P	BULKHEAD, Front
35+	1	A43101P	RING, Seal
36+	1	A44556A	BEARING ASSEMBLY, Drive
37	1	A43124A	CAN, Lead Section
38	1	A43150A	ADAPTER, Casing
39	3	A43184P	COVER, Jetting
40	2	A43189P	WASHER, Pinion
41^	8	P0025-005A	STUD 1/2 x 3
42	2	A43191P	WASHER
43^^	1	A45071P	PLATE, Wear
44	6	P0030-04-002	SCREW, Cap 1/4 UNC x .5
45	1	A46287A	SEAL
46	1	A46286A	SEAL
47	3	P0200-203	TUBE
48	3	P0302-474	VALVE, Check
49	3	P0300-227	FITTING, 02MP-02FPX
50	3	P0300-772	FITTING, 2NPTF-2NPTF
51	3	P0300-250	FITTING, 04MJ-04MB
52	3	A45763A	JETTING NOZZLE ASSEMBLY
53.1***	A/N	A46289P	SHIM, Drive Shaft .250
53.2***	A/N	A46290P	SHIM, Drive Shaft .260
53.3***	A/N	A46291P	SHIM, Drive Shaft .270
53.4***	A/N	A46292P	SHIM, Drive Shaft .280
54	2	P0085-249	ORING (SN FA43000F-07 & After)

QT - Quart

A/N - As Needed

* Not Shown ** Refer to section 8, Motors for parts information.

*** Set drive shaft end play at .010" - .020" with appropriate shim.

^ Apply thread sealant to motor studs (41). ^^ Apply a thin layer of silicone between items 34 and 43.

+ Mating surfaces of items 35 and 36 must be clean and free of oil.

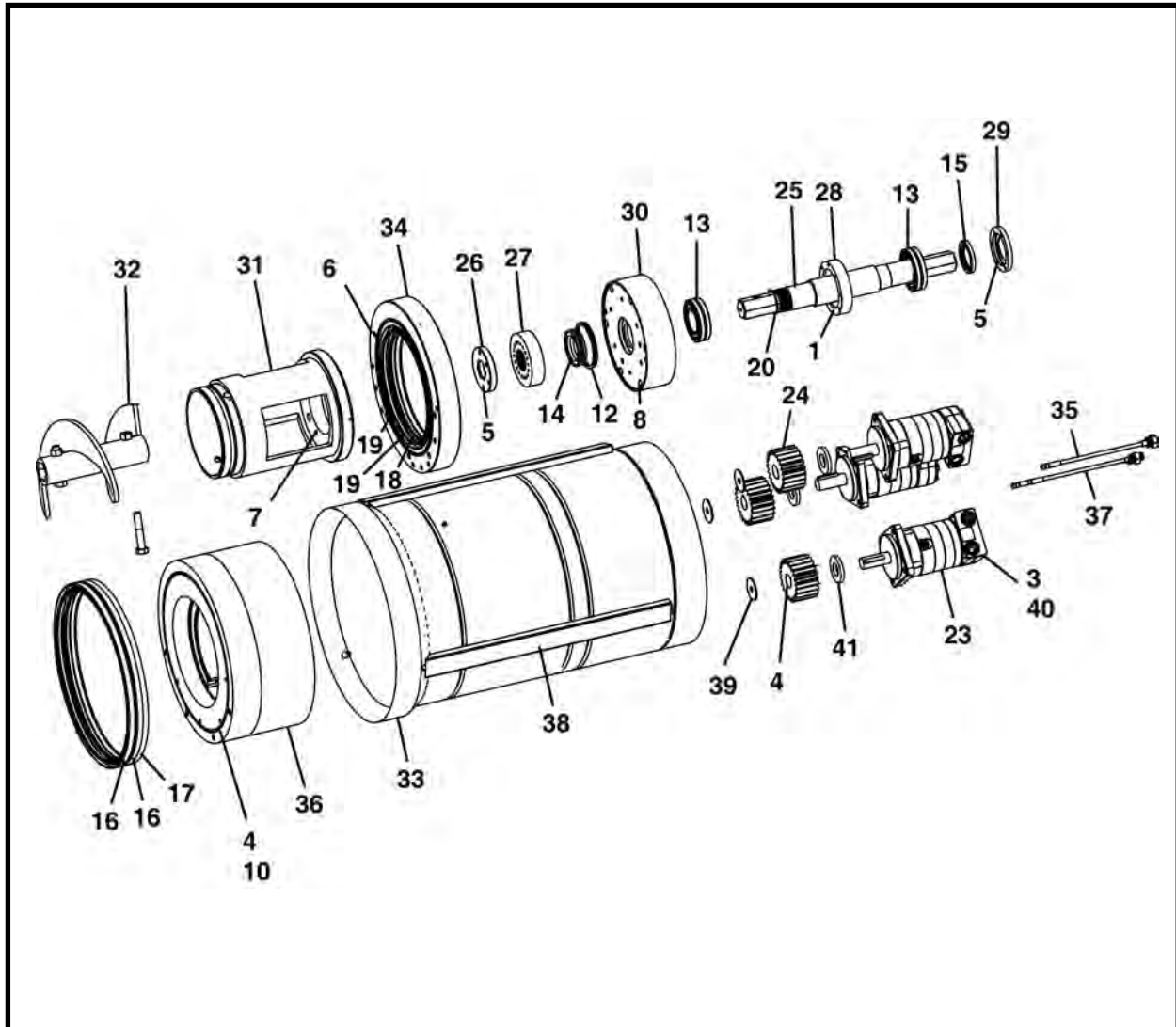
++ (SN FA43000F-6 & Before) Seal drive motors (26) to motor housing with silicone sealant to make joint liquid tight.

@ Replace item 13 with 24 after greasing seals. Place item 13 in storage bag and tie-strap inside machine in safe location for later use.

< Mechanical seal housing nut (30) must be installed with .005-.015" minimum clearance to items 43 & 34.

PCH 22.5 FRONT SECTION ASSEMBLY, A42900A

PCH 22.5 (SN FA42850F-1 THRU 8)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42900A	FRONT SECTION ASSEMBLY, PCH 22.5
1	8	P0001-04-007	BOLT, 1/4 UNC x 1.75
2	6	P0001-08-014	BOLT, 1/2 UNC x 3.5
3	24	P0003-08-000	NUT, 1/2
4	3	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
5	8	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
6	8	P0031-06-010	SCREW, Socket Head Cap 3/8 UNC x 2.5
7	6	P0031-08-005	SCREW, Socket Head Cap 1/2 UNC x 1.25
8	6	P0031-08-014	SCREW, Socket Head Cap 1/2 UNC x 3.5
9	9	P0037-064	PIN, Dowel
10	6	P0040-008	WASHER, Hardened Flat 1/2
11	2	P0063-004	FITTING, Grease 1/8 NPT
12	1	P0065-184	V SEAL
13	2	P0065-192	BEARING, Spherical Roller
14	1	P0065-193	SEAL, Shaft
15	1	P0065-194	SEAL, Oil
16	2	P0065-195	SEAL, Dirt Shaft 19.25
17	1	P0065-196	SEAL, Oil Shaft 19.25
18	1	P0065-198	SEAL, Oil Shaft 12.38

PCH 22.5 FRONT SECTION ASSEMBLY, A42900A**PCH 22.5 (SN FA42850F-1 THRU 8)**

ITEM	QTY	PART NO.	DESCRIPTION
19	2	P0065-199	SEAL, Dirt
20	1	P0085-145	ORING
21	12 QT	P0126-014	LUBE, Mobilgear 630 Gear
22	2	P0300-185	FITTING, 04MB-PLUG
23*	3	P0304-165	MOTOR, Hydraulic
23a	2	P0304-165A	SEAL, Shaft
24	3	A42880P	PINION
25.1	1	A42887P	SHAFT, Auger Drive (SN FA42850F-1 thru 5)
25.2	1	A44822P	SHAFT, Auger Drive (SN FA42850F-6 thru 8)
26	1	A42888P	PLATE, Front Seal Retainer
27	1	A46668P	HOUSING, Front Auger Seal
28	1	A42891P	HOLDER, Auger Shaft Bearing
29	1	A42892P	PLATE, Rear Seal Retainer
30	1	A42893P	BULKHEAD, Front
31	1	A42930A	WELDMENT, Casing Adapter
32	1	A42931A	AUGER ASSEMBLY (Includes item 32a)
32a	2	P0001-12-016	BOLT, 3/4 UNC x 4
33	1	A42944A	WELDMENT, Lead Section
34	1	A42946P	SEAL RING
35	1	A42951A	ASSEMBLY, Grease Delivery Tube
36.1	1	A42955A	ASSEMBLY, Drive Bearing (SN FA42850F-1 thru 5)
36.2	1	A44557A	ASSEMBLY, Drive Bearing (SN FA42850F-6 thru 8)
37	1	A42956A	ASSEMBLY, Lube Delivery Tube
38	3	A43184P	COVER, Jetting
39	3	A43189P	WASHER, Pinion
40**	12	P0025-005A	STUD 1/2 x 3
41	3	A43191P	WASHER

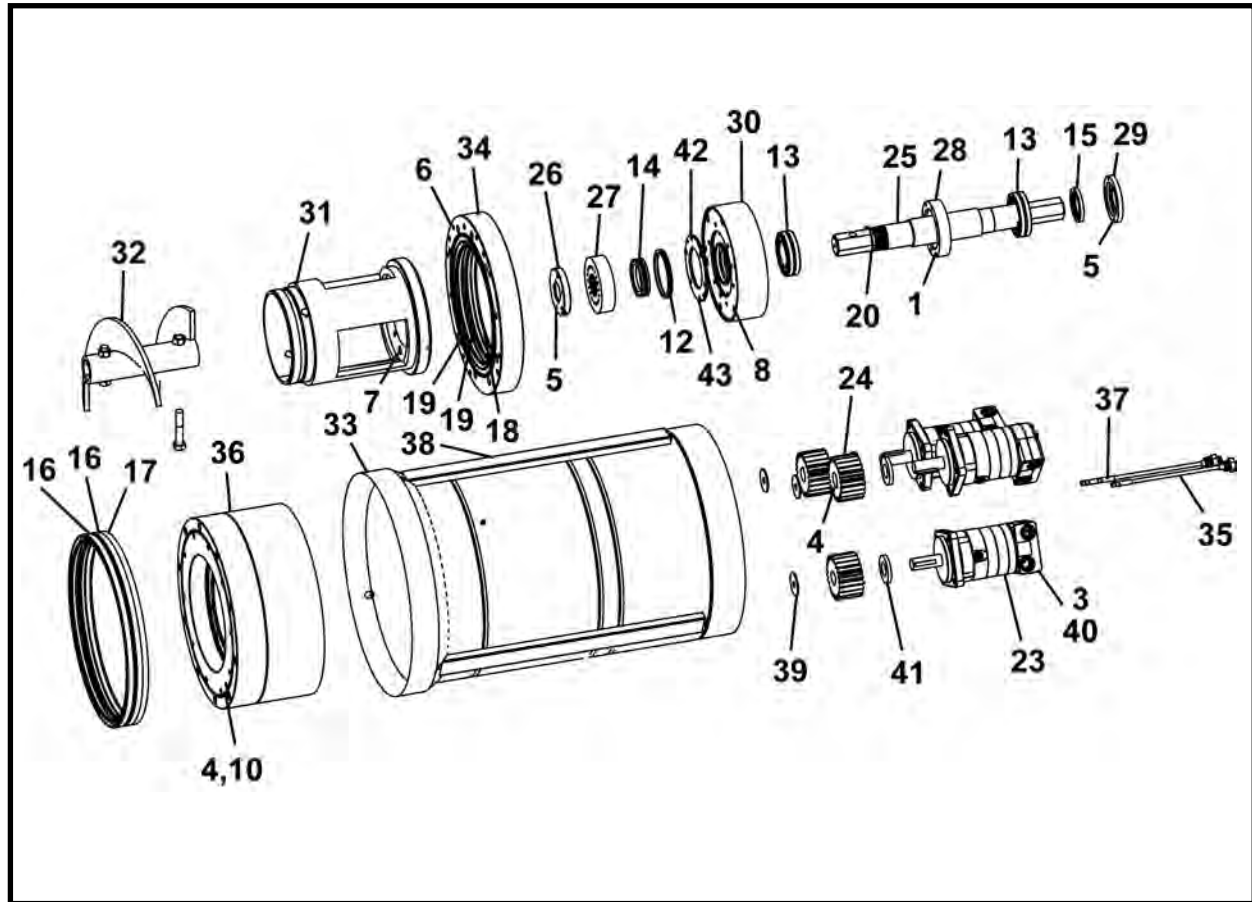
QT - Quart

* Seal drive motors (23) to motor housing with silicone sealant to make joint liquid tight.

** Apply thread sealant to motor studs (40).

PCH 22.5 FRONT SECTION ASSEMBLY, A42900A

PCH 22.5 (SN FA42850F-9 THRU 11)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42900A	FRONT SECTION ASSEMBLY, 22.5
1	8	P0001-04-007	BOLT, 1/4 UNC x 1.75
2	6	P0001-08-014	BOLT, 1/2 UNC x 3.5
3	24	P0003-08-000	NUT, 1/2
4	3	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
5	8	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
6.1	8	P0031-08-011	SCREW, Socket Head Cap 3/8 UNC x 2.5 (SN FA48250F-9 & 10)
6.2	10	P0031-08-011	SCREW, Socket Head Cap 3/8 UNC x 2.5 (SN FA48250F-11)
7	6	P0031-08-005	SCREW, Socket Head Cap 1/2 UNC x 1.25
8	6	P0031-08-014	SCREW, Socket Head Cap 1/2 UNC x 3.5
9	9	P0037-064	PIN, Dowel
10	6	P0040-008	WASHER, Hardened Flat 1/2
11	2	P0063-004	FITTING, Grease 1/8 NPT
12	1	P0065-184	V SEAL
13	2	P0065-192	BEARING, Spherical Roller
14	1	P0065-193	SEAL, Shaft
15	1	P0065-194	SEAL, Oil
16	2	P0065-195	SEAL, Dirt Shaft 19.25
17	1	P0065-196	SEAL, Oil Shaft 19.25
18	1	P0065-198	SEAL, Oil Shaft 12.38
19	2	P0065-199	SEAL, Dirt
20	1	P0085-145	ORING
21	12 QT	P0126-014	LUBE, Mobilgear 630 Gear
22	2	P0300-185	FITTING, 04MB-PLUG

PCH 22.5 FRONT SECTION ASSEMBLY, A42900A**PCH 22.5 (SN FA42850F-9 THRU 11)**

ITEM	QTY	PART NO.	DESCRIPTION
23*	3	P0304-165	MOTOR, Hydraulic
23a	2	P0304-165A	SEAL, Shaft
24	3	A42880P	PINION
25	1	A44822P	SHAFT, Auger Drive
26	1	A42888P	PLATE, Front Seal Retainer
27	1	A46668P	HOUSING, Front Auger Seal
28	1	A42891P	HOLDER, Auger Shaft Bearing
29	1	A42892P	PLATE, Rear Seal Retainer
30	1	A42893P	BULKHEAD, Front
31	1	A42930A	WELDMENT, Casing Adapter
32	1	A42931A	AUGER ASSEMBLY (Includes item 32a)
32a	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4
33	1	A42944A	WELDMENT, Lead Section
34.1	1	A45100P	SEAL RING (SN FA48250F-9 & 10) (8 bolt pattern)
34.2	1	A45097P	SEAL RING (SN FA48250F-11) (10 bolt pattern)
35	1	A42951A	ASSEMBLY, Grease Delivery Tube
36.1	1	A44557A	ASSEMBLY, Drive Bearing (SN FA42850F-9 & 10)
36.2	1	A45098A	ASSEMBLY, Drive Bearing (SN FA48250F-11)
37	1	A42956A	ASSEMBLY, Lube Delivery Tube
38	3	A43184P	COVER, Jetting
39	3	A43189P	WASHER, Pinion
40**	12	P0025-005A	STUD 1/2 x 3
41	3	A43191P	WASHER
42	1	A45071P	WEAR PLATE, Front Bulkhead
43	6	P0030-04-002	SCREW, Flat Head Cap 1/4 UNC x .5

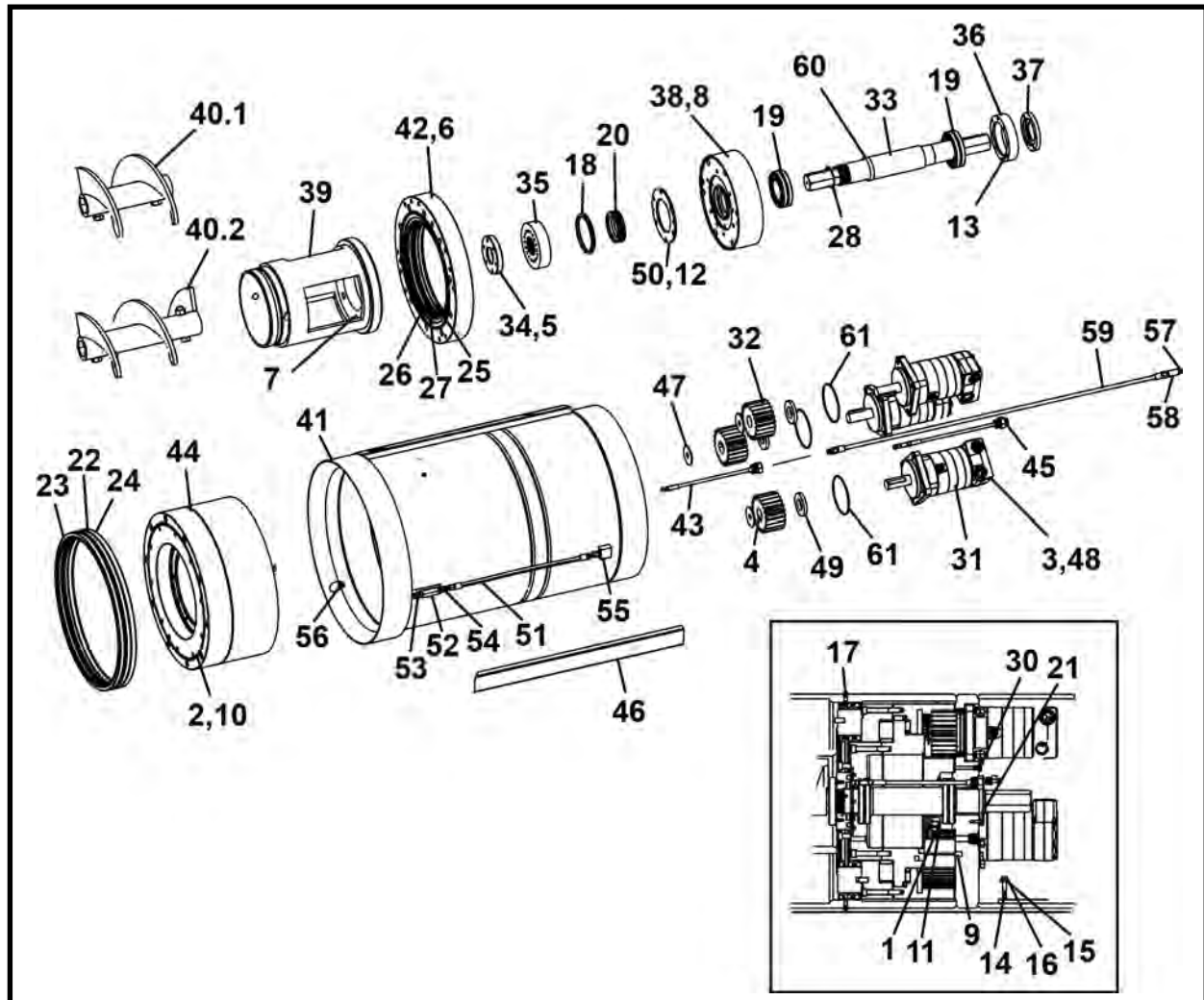
QT - Quart

* Seal drive motors (23) to motor housing with silicone sealant to make joint liquid tight.

** Apply thread sealant to motor studs (40).

PCH 22.5 FRONT SECTION ASSEMBLY, A42900A

PCH 22.5 (SN FA42850F-12 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42900A	FRONT SECTION ASSEMBLY, PCH 22.5
1	8	P0001-04-007	BOLT, 1/4 UNC x 1.75
2	6	P0001-08-014	BOLT, 1/2 UNC x 3.5
3	24	P0003-08-000	NUT, 1/2
4	3	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
5	8	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
6	10	P0031-08-011	SCREW, Socket Head Cap 3/8 UNC x 2.5
7	6	P0031-08-005	SCREW, Socket Head Cap 1/2 UNC x 1.25
8	6	P0031-08-014	SCREW, Socket Head Cap 1/2 UNC x 3.5
9	9	P0037-064	PIN, Dowel
10	6	P0040-008	WASHER, Hardened Flat 1/2
11	8	P0040-004	WASHER, Hardened Flat 1/4
12	6	P0030-04-002	SCREW, Flat Head Cap 1/4 UNC x 1/2
13	6	P0031-04-003	SCREW, Socket Head Cap 1/4 UNC x .75
14	2	P0001-06-010	BOLT, 3/8 UNC x 2.5
15	2	P0045-006	WASHER, Lock 3/8
16	2	P0040-006	WASHER, Hardened Flat 3/8
17	2	P0063-004	FITTING, Grease 1/8 NPT
18	1	P0065-184	V SEAL
19	2	P0065-192	BEARING, Spherical Roller
20	1	P0065-193	SEAL, Shaft
21	1	P0065-194	SEAL, Oil

PCH 22.5 FRONT SECTION ASSEMBLY, A42900A**PCH 22.5 (SN FA42850F-12 & AFTER)**

ITEM	QTY	PART NO.	DESCRIPTION
22	2	P0065-195	SEAL, Dirt Shaft 19.25
23	1	A45764A	SEAL, With Stand Off 19.25
24	1	P0065-196	SEAL, Oil Shaft 19.25
25	1	P0065-198	SEAL, Oil Shaft 12.38
26	1	A45753A	SEAL, With Stand Off 12.38
27	2	P0065-199	SEAL, Dirt
28	1	P0085-145	ORING
29	12 QT	P0126-014	LUBE, Mobilgear 630 Gear
30	2	P0300-185	FITTING, 04MB-PLUG
31*	3	P0304-165	MOTOR, Hydraulic (Includes item 31a)
31a	2	P0304-165A	SEAL, Shaft
32	3	A42880P	PINION
33++	1	A46667P	SHAFT, Auger Drive
34	1	A42888P	PLATE, Front Seal Retainer
35^	1	A46668P	HOUSING, Front Auger Seal
36	1	A42891P	HOLDER, Auger Shaft Bearing
37	1	A42892P	PLATE, Rear Seal Retainer
38***	1	A42893P	BULKHEAD, Front
39	1	A42930A	WELDMENT, Casing Adapter
40.1	1	A42931A	AUGER ASSEMBLY (Includes item 40a) (SN FA42850F-18 & Before)
40.2	1	A42985A	AUGER ASSEMBLY (Includes item 40a) (SN FA42850F-19 & After)
40a	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4
41	1	A42944A	WELDMENT, Lead Section
42+	1	A45097P	RING, Seal
43	1	A45161A	ASSEMBLY, Grease Delivery Tube
44+	1	A45098A	ASSEMBLY, Drive Bearing
45	1	A45162A	ASSEMBLY, Lube Delivery Tube
46	3	A43184P	COVER, Jetting
47	3	A43189P	WASHER, Pinion
48**	12	P0025-005A	STUD 1/2 x 3
49	3	A43191P	WASHER
50***	1	A45071P	WEAR PLATE, Front Bulkhead
51	3	P0200-203	FITTING, 4GT7-2MP-4FJSX-21.75
52	3	P0302-474	VALVE, Check
53	3	P0300-227	FITTING, 02MP-02FPX
54	3	P0300-772	FITTING, 2NPTF-2NPTF
55	3	P0300-250	FITTING, 04MJ-04MB
56	3	A45763A	ASSEMBLY, PCH Jetting Nozzle
57	1	P0063-016	FITTING, Grease 1/4 NPT
58	1	P0400-001	COUPLING, Pipe 1/4
59	1	P0201-282	ASSEMBLY, Tube 48"
60.1++	A/N	A46289P	SHIM, Drive Shaft .250
60.2++	A/N	A46290P	SHIM, Drive Shaft .260
60.3++	A/N	A46291P	SHIM, Drive Shaft .270
60.4++	A/N	A46292P	SHIM, Drive Shaft .280
61	3	P0085-249	ORING (SN FA428500F-19 & After)

QT - Quart A/N - As Needed

** (SN FA42850F-18 & Before) Seal drive motors (31) to motor housing with silicone sealant to make joint liquid tight. Refer to section 8, Motors for parts information.

** Apply thread sealant to motor studs (48).

*** Apply a thin layer of silicone between items 50 and 38.

+ Mating surfaces of items 42 and 44 must be clean and free of oil.

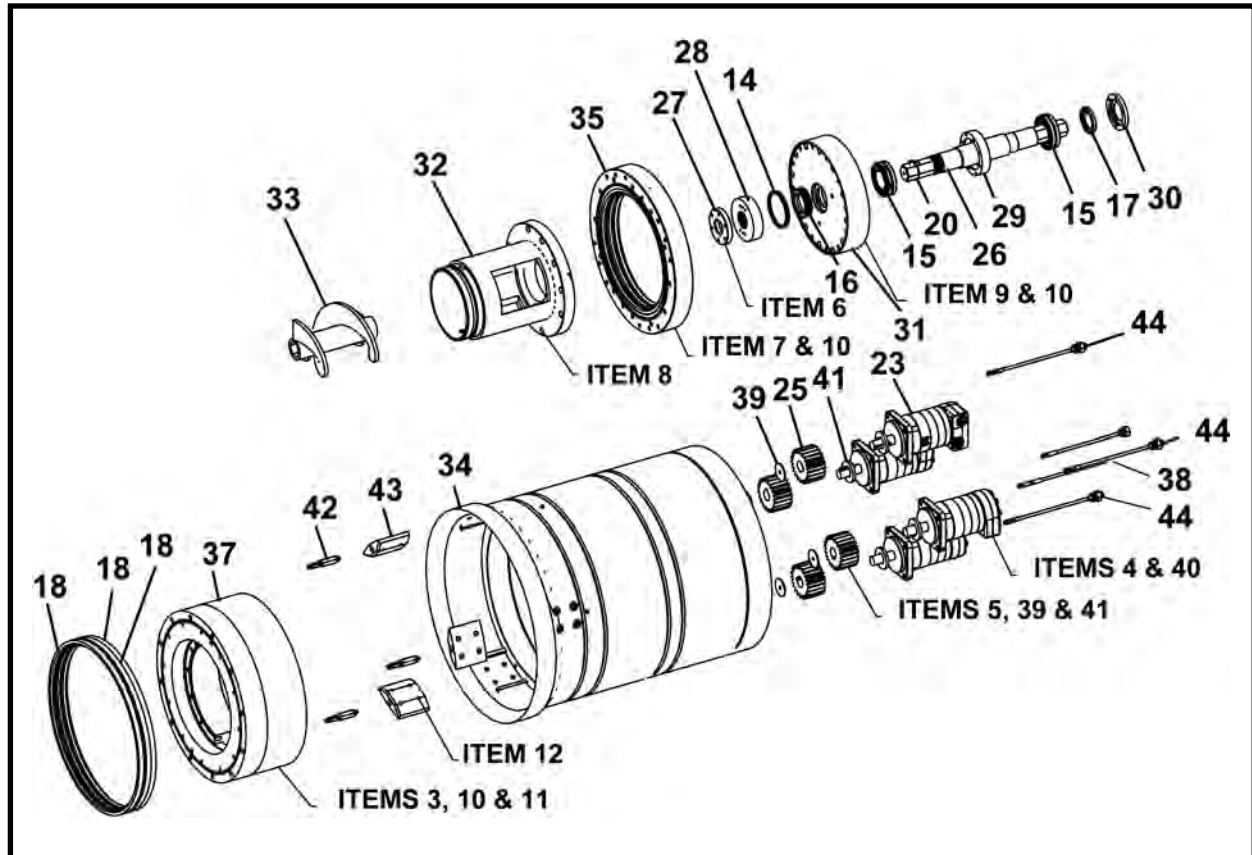
++ Set drive shaft end play at .010" - .020" with appropriate shim.

^ Mechanical seal housing nut (35) must be installed with .005-.015" minimum clearance to items 50 & 38.

Note: Apply teflon tape to NPT joints on jetting hose couplings.

PCH 28.5 FRONT SECTION ASSEMBLY, A43641A

PCH 28.5 (SN FA43000F-1 THRU 5)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43641A	FRONT SECTION ASSEMBLY, PCH 28.5
1	8	P0001-04-007	BOLT, Hex 1/4 UNC x 1.75
2	12	P0001-08-008	BOLT, Hex 1/2 UNC x 2
3	8	P0001-08-014	BOLT, Hex 1/2 UNC x 3.5
4	32	P0003-08-000	NUT, 1/2
5	4	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
6	8	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
7	12	P0031-06-010	SCREW, Socket Head Cap 3/8 UNC x 2.5
8	10	P0031-08-005	SCREW, Socket Head Cap 1/2 UNC x 1.25
9	13	P0031-08-014	SCREW, Socket Head Cap 1/2 UNC x 3.5
10	10	P0037-064	PIN, Dowel
11	20	P0040-008	WASHER, Hardened Flat 1/2
12	12	P0001-08-006	BOLT, Hex 1/2 x 1.5
13	2	P0063-004	FITTING, Grease 1/8 NPT
14	1	P0065-184	V SEAL
15	2	P0065-192	BEARING, Spherical Roller
16	1	P0065-193	SEAL, Shaft
17	1	P0065-194	SEAL, Oil
18	3	P0088-161	SEAL
19	3	P0088-162	SEAL
20	1	P0085-145	ORING
21	33 QT	P0126-014	LUBE, Mobilgear 630 Gear
22	2	P0300-185	FITTING, 04MB-PLUG
23*	4	P0304-165	MOTOR, Hydraulic (Includes item 23a)
23a	2	P0304-165A	SEAL, Shaft
24	3	P0300-144	FITTING, 02MP-HHP
25	4	A42880P	PINION

PCH 28.5 FRONT SECTION ASSEMBLY, A43641A**PCH 28.5 (SN FA43000F-1 THRU 5)**

ITEM	QTY	PART NO.	DESCRIPTION
26.1	1	A42887P	SHAFT, Auger Drive (SN FA43000F-1 thru 4)
26.2	1	A44822P	SHAFT, Auger Drive (SN FA43000F-5)
27	1	A42888P	PLATE, Front Seal Retainer
28	1	A46668P	HOUSING, Front Auger Seal
29	1	A42891P	HOLDER, Auger Shaft Bearing
30	1	A42892P	PLATE, Rear Seal Retainer
31	1	A43611P	BULKHEAD, Front
32	1	A43630A	WELDMENT, Casing Adapter
33	1	A42931A	ASSEMBLY, AUGER (Includes item 33a)
33a	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4
34	1	A43631A	WELDMENT, Lead Section
35	1	A43609P	RING, Seal
36	1	A42951A	ASSEMBLY, Grease Delivery Tube
37.1	1	A43007A	ASSEMBLY, Drive Bearing (SN FA43000F-1 thru 4)
37.2	1	A44558A	ASSEMBLY, Drive Bearing (SN FA43000F-5)
38	1	A42956A	ASSEMBLY, Lube Delivery Tube
39	4	A43189P	WASHER, Pinion
40**	16	P0025-005A	STUD 1/2 x 3
41	4	A43191P	WASHER
42	3	A43640A	ASSEMBLY, Jetting Tube
43	3	A43629P	BLOCK, Nozzle Protecting
44	3	A43632A	ASSEMBLY, Chem. Delivery Tube

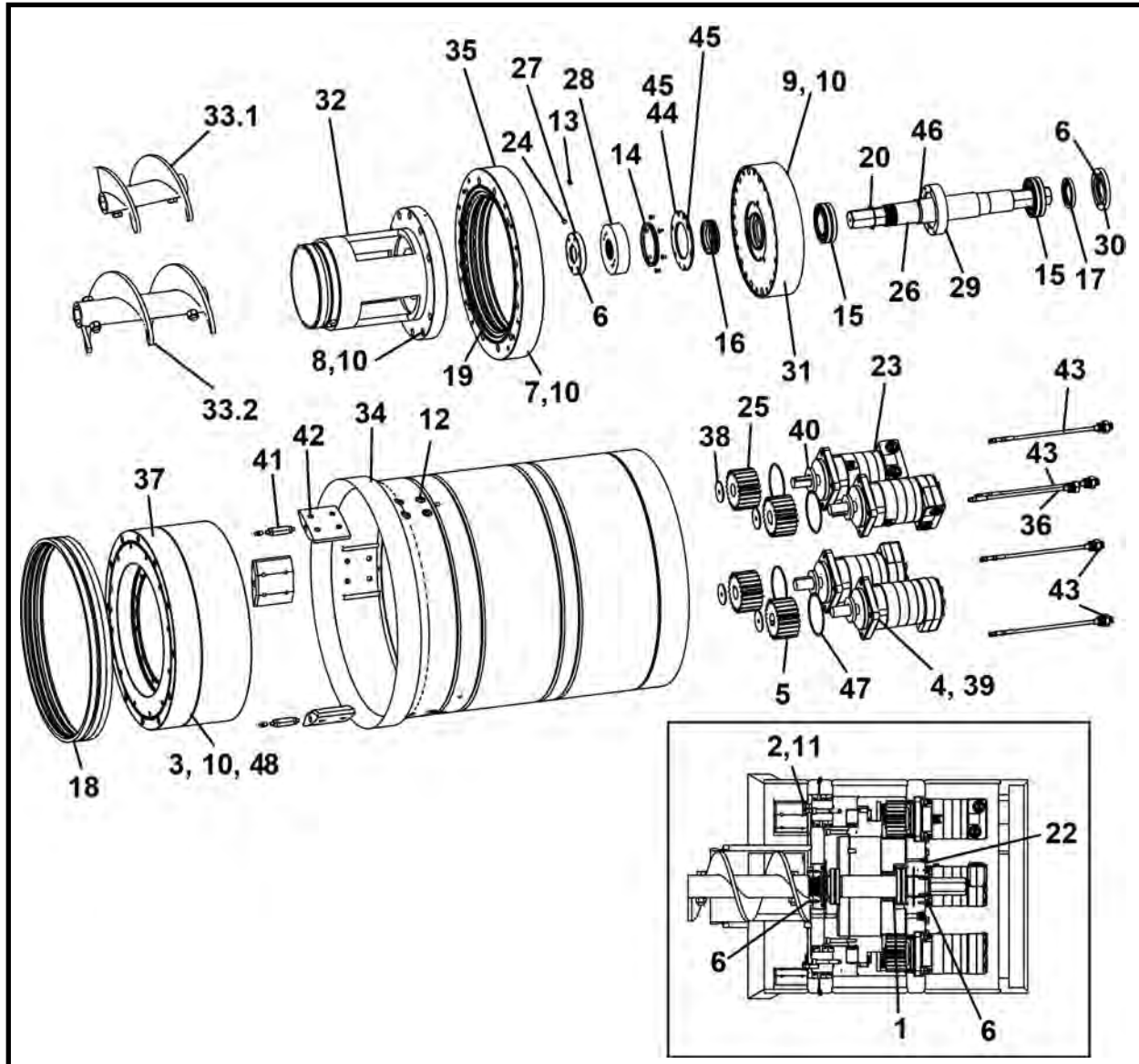
QT - Quart

* Seal drive motors (23) to motor housing with silicone sealant to make joint liquid tight.

** Apply thread sealant to motor studs (40).

PCH 28.5 FRONT SECTION ASSEMBLY, A43641A

PCH 28.5 (SN FA43000F-6 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43641A	FRONT SECTION ASSEMBLY, PCH 28.5
1	8	P0001-04-007	BOLT, 1/4 UNC x 1.75
2	12	P0001-08-007	BOLT, 1/2 UNC x 1.75
3	8	P0001-10-014	BOLT, 5/8 UNC x 3.5
4	32	P0003-08-000	NUT, 1/2
5	4	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
6	12	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
7	12	P0031-08-012	SCREW, Socket Head Cap 1/2 UNC x 3
8	10	P0031-08-009	SCREW, Socket Head Cap 1/2 UNC x 2.25
9	12	P0031-08-014	SCREW, Socket Head Cap 1/2 UNC x 3.5
10	10	P0037-064	PIN, Dowel
11	12	P0040-008	WASHER, Hardened Flat 1/2
12	12	P0001-08-006	BOLT, 1/2 x 1.5
13	2	P0063-004	FITTING, Grease 1/8 NPT
14	1	P0065-184	V SEAL
15	2	P0065-192	BEARING, Spherical Roller
16	1	P0065-193	SEAL, Shaft
17	1	P0065-194	SEAL, Oil

PCH 28.5 FRONT SECTION ASSEMBLY, A43641A**PCH 28.5 (SN FA43000F-6 & AFTER)**

ITEM	QTY	PART NO.	DESCRIPTION
18	3	P0088-161	SEAL
19	3	P0088-162	SEAL
20	1	P0085-145	ORING
21	33 QT	P0126-014	LUBE, Mobilgear 630 Gear
22	2	P0300-185	FITTING, 04MB-PLUG
23*	4	P0304-165	MOTOR, Hydraulic (Includes item 23a)
23a	2	P0304-165A	SEAL
24	3	P0300-144	FITTING, 02MP-HHP
25	4	A42880P	PINION
26	1	A46667P	SHAFT, Auger Drive
27	1	A42888P	PLATE, Front Seal Retainer
28	1	A46668P	HOUSING, Seal
29	1	A42891P	HOLDER, Auger Shaft Bearing
30	1	A42892P	PLATE, Rear Seal Retainer
31***, ^	1	A43611P	BULKHEAD, Front
32	1	A43630A	WELDMENT, Casing Adapter
33	1	A42931A	AUGER ASSEMBLY (Includes item 33a) (SN FA43000F-13 & Before)
33	1	A42985A	AUGER ASSEMBLY (Includes item 33a) (SN FA43000F-14 & After)
33a	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4
34	1	A43631A	CAN, Lead Section
35+, ^	1	A45102P	RING, Seal
36	1	A45161A	TUBE, Grease Delivery
37+	1	A44558A	ASSEMBLY, Drive Bearing
38	4	A43189P	WASHER, Pinion
39**	16	P0025-005A	STUD 1/2 x 3
40	4	A43191P	WASHER
41	3	A43640A	ASSEMBLY, Jetting Tube
42	3	A43629P	BLOCK, Nozzle Protecting
43	4	A46280A	TUBE, Chem. Delivery
44	1	A45071P	WEAR PLATE, Front Bulkhead
45***, ^	6	P0030-04-002	SCREW, Flat Head Cap 1/2 UNC x .5
46.1++	A/N	A46289P	SHIM, Drive Shaft .250
46.2++	A/N	A46290P	SHIM, Drive Shaft .260
46.3++	A/N	A46291P	SHIM, Drive Shaft .270
46.4++	A/N	A46292P	SHIM, Drive Shaft .280
47	4	P0085-249	ORING (SN FA43000F-13 & After)
48	8	P0040-010	WASHER, Hardened Flat 5/8

QT - Quart

* (SN FA43000F-12 & Before) Seal drive motors (23) to motor housing with silicone sealant to make joint liquid tight.

Refer to section 8, Motors for parts information.

** Apply thread sealant to motor studs (39).

*** Apply a thin layer of silicone between items 31 and 45.

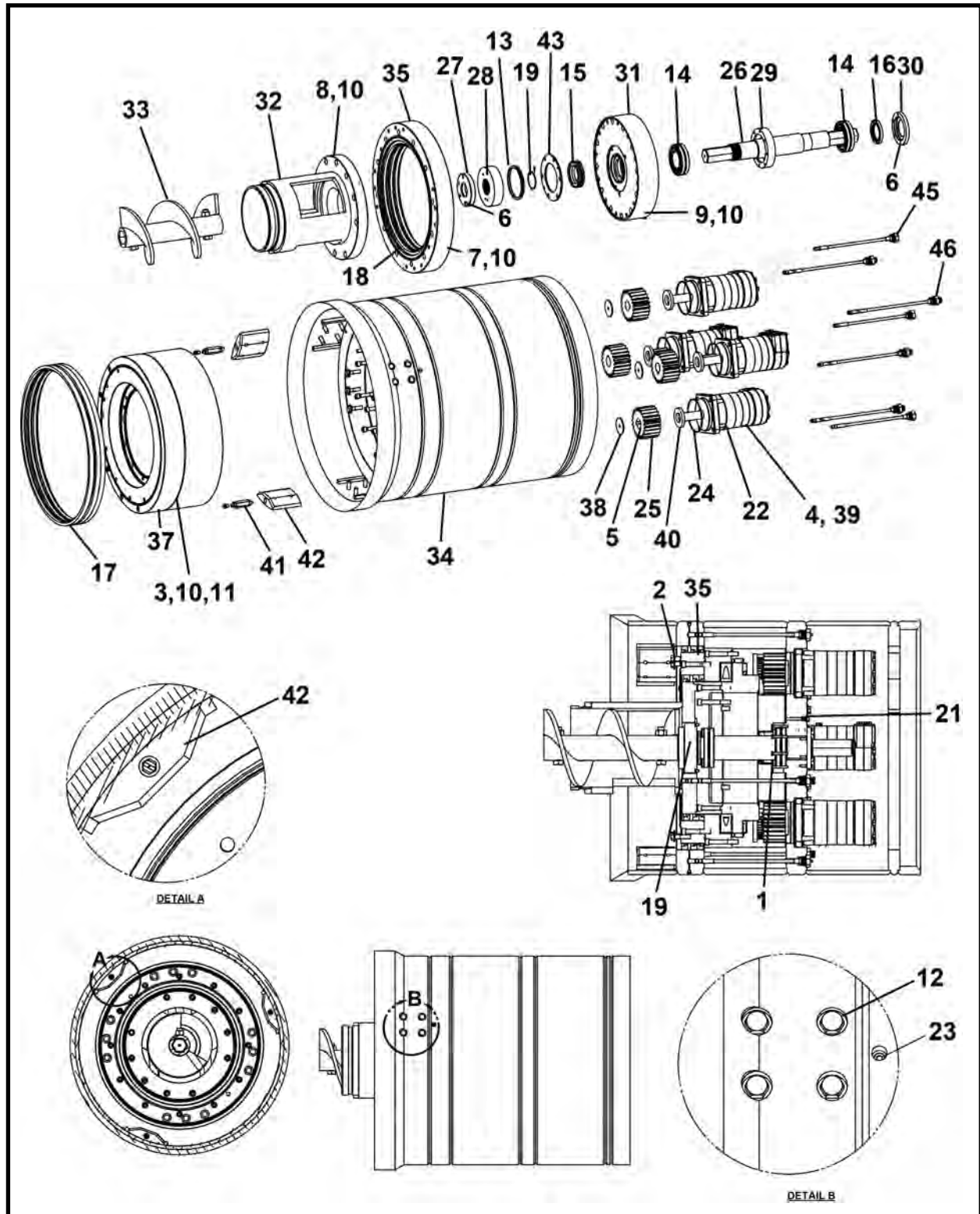
+ Mating surfaces of items 35 and 37 must be clean and free of oil.

++ Set drive shaft end play at .010" - .020" with appropriate shim.

^ Mechanical seal housing nut (35) must be installed with .005-.015" minimum clearance to items 31 & 45.

PCH 30.5 FRONT SECTION ASSEMBLY, A47959A

PCH 30.5



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A47959A	FRONT SECTION ASSEMBLY, PCH 30.5
1	8	P0001-04-007	BOLT, 1/4 UNC x 1.75
2	12	P0001-08-008	BOLT, 1/2 UNC x 2
3	8	P0001-08-014	BOLT, 1/2 UNC x 3.5
4	32	P0003-08-000	NUT, 1/2

PCH 30.5 FRONT SECTION ASSEMBLY, A47959A

PCH 30.5

ITEM	QTY	PART NO.	DESCRIPTION
5	4	P0030-06-004	SCREW, Flat Head Cap 3/8 UNC x 1
6	8	P0031-04-004	SCREW, Socket Head Cap 1/4 UNC x 1
7	12	P0031-08-012	SCREW, Socket Head Cap 1/2 UNC x 3
8	10	P0031-08-005	SCREW, Socket Head Cap 1/2 UNC x 1.25
9	13	P0031-08-014	SCREW, Socket Head Cap 1/2 UNC x 3.5
10	10	P0037-064	PIN, Dowel
11	20	P0040-008	WASHER, Hardened Flat 1/2
12	12	P0001-08-006	BOLT, 1/2 x 1.5
13	1	P0065-184	V SEAL
14	2	P0065-192	BEARING, Spherical Roller
15	1	P0065-193	SEAL, Shaft
16	1	P0065-194	SEAL, Oil
17	3	P0088-161	SEAL
18	3	P0088-162	SEAL
19	1	P0085-145	ORING
20	20 QT	P0126-014	LUBE, Mobilgear 630 Gear
21	2	P0300-185	FITTING, 04MB-PLUG
22*	4	P0304-165	MOTOR, Hydraulic (Includes item 23a)
22a	2	P0304-165A	SEAL
23	5	P0300-144	FITTING, 02MP-HHP
24	4	P0085-249	ORING
25	4	A42880P	PINION
26++	1	A46667P	SHAFT, Auger Drive
27	1	A42888P	PLATE, Front Seal Retainer
28	1	A46668P	HOUSING, Seal
29	1	A42891P	HOLDER, Auger Shaft Bearing
30	1	A42892P	PLATE, Rear Seal Retainer
31***, ^	1	A43611P	BULKHEAD, Front
32	1	A43630A	WELDMENT, Casing Adapter
33	1	A42985A	AUGER ASSEMBLY (Includes item 33a)
33a	2	P0001-12-016	BOLT, Hex 3/4 UNC x 4
34	1	A47960A	CAN, Lead Section
35+	1	A45102P	RING, Seal
36	1	A45161A	TUBE, Grease Delivery
37+	1	A44558A	ASSEMBLY, Drive Bearing
38	4	A43189P	WASHER, Pinion
39**	16	P0025-005A	STUD
40	4	A43191P	WASHER
41	3	A43640A	ASSEMBLY, Jetting Tube
42	3	A43629P	BLOCK, Nozzle Protecting
43***, ^	1	A45071P	WEAR PLATE, Front Bulkhead
44	6	P0030-04-002	SCREW, Flat Head Cap 1/2 UNC x .5
45	2	A47970A	TUBE, PCH Grease
46	4	A46280A	TUBE, Chem. Delivery

QT - Quart

* Refer to section 8, Motors for parts information.

** Apply thread sealant to motor studs (39).

***Apply a thin layer of silicone between items 31 and 43.

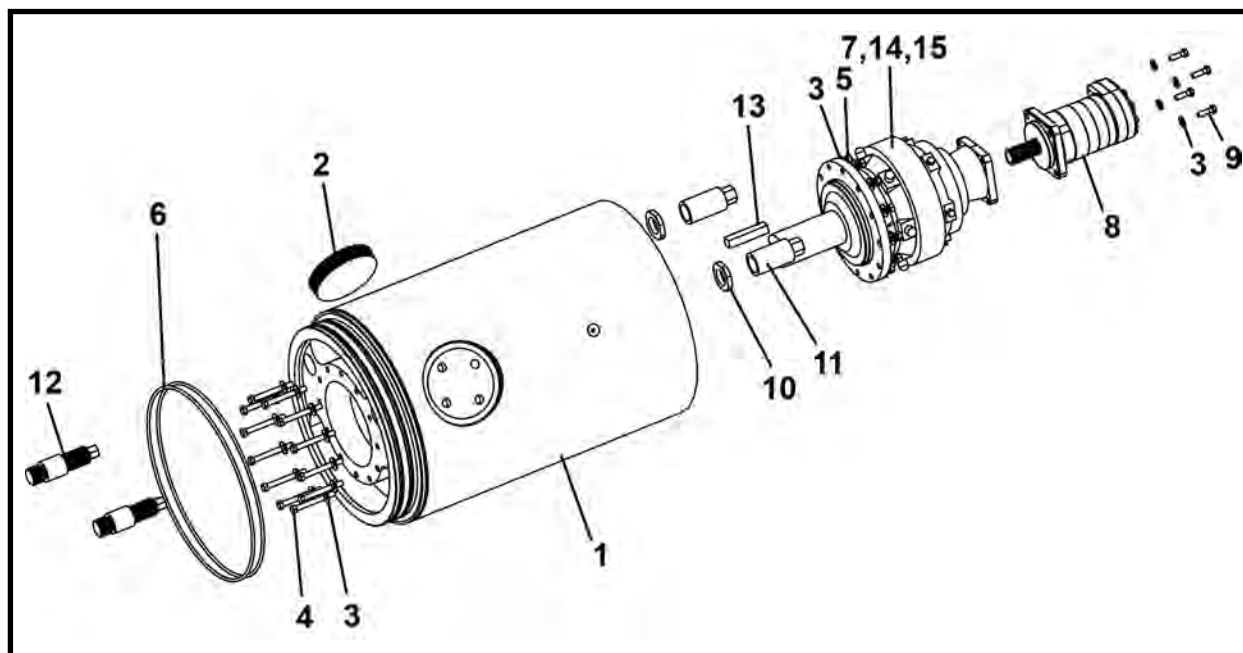
+ Mating surfaces of items 35 and 37 must be clean and free of oil.

++ Set drive shaft end play at .010" - .020" with appropriate shim.

^ Mechanical seal housing nut (28) must be installed with .005-.015" minimum clearance to items 31 & 43.

PCH REAR SECTION ASSEMBLY

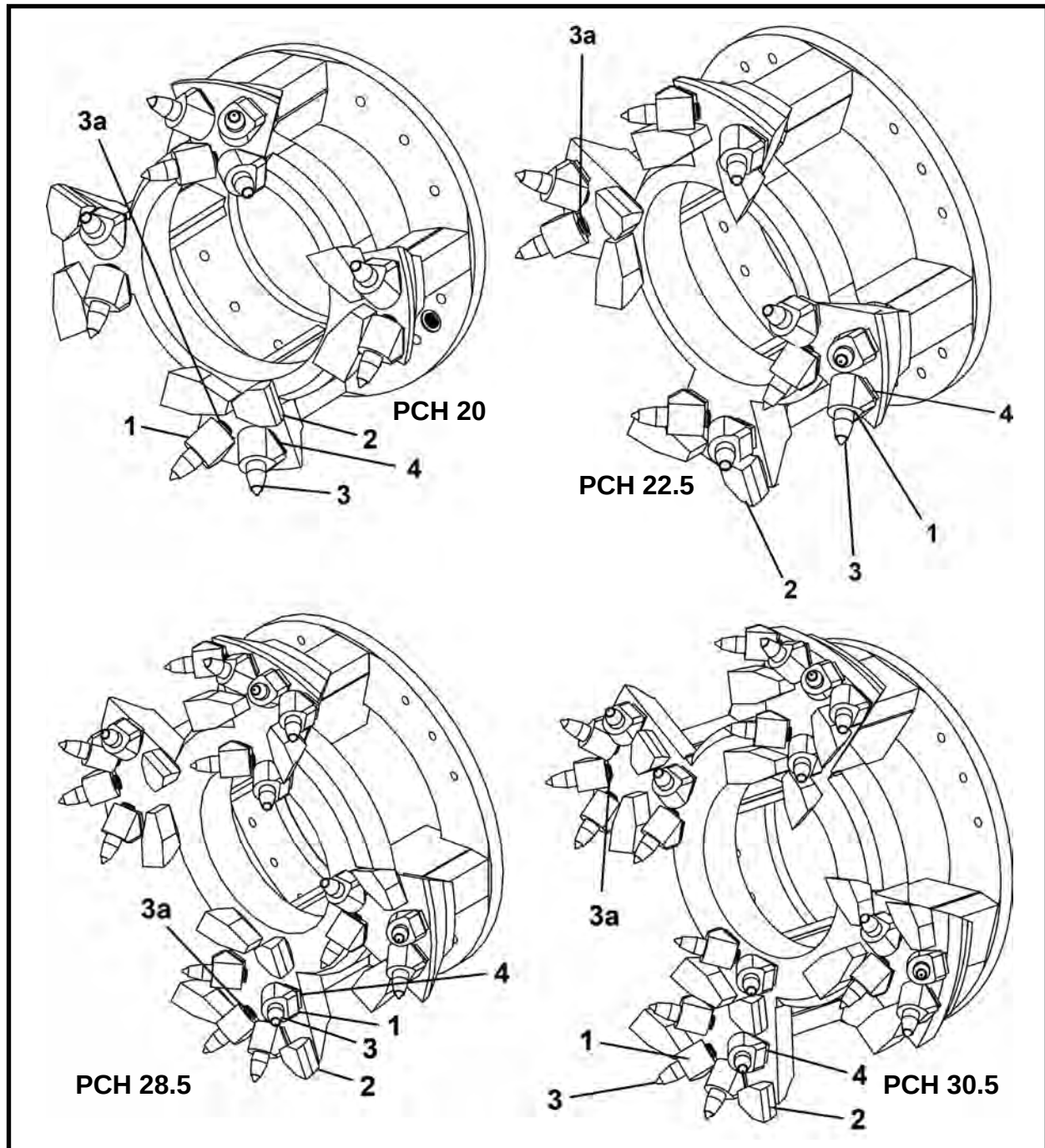
PCH 20 - 22.5 - 28.5 - 30.5



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	A43161A	ASSEMBLY, Rear Section PCH 20
0.2	1	A42901A	ASSEMBLY, Rear Section PCH 22.5
0.3	1	A43623A	ASSEMBLY, Rear Section PCH 28.5
0.4	1	A47954A	ASSEMBLY, Rear Section PCH 30.5
1.1	1	A43131A	CAN, Rear Section PCH 20
1.2	1	A42864A	CAN, Rear Section PCH 22.5
1.3	1	A43604A	CAN, Rear Section PCH 28.5
1.4	1	A47955A	CAN, Rear Section PCH 30.5
2	2	A01199P0	PORT, Access
3	28	P0040-008	WASHER, Hardened Flat 1/2
4	12	P0001-08-018	BOLT, 1/2 UNC x 4.5
5	12	P0003-08-000	NUT, 1/2
6.1	2	P0088-154	ORING
6.2*	2	P0088-156	ORING
6.3	2	P0088-160	ORING
6.4	2	P0088-160	ORING
7	1	P0097-026	GEAR BOX
8	1	P0304-172	MOTOR, Hydraulic
9.1.2.3	4	PM12B-1.75-040	BOLT, Metric M12-1.75 x 40
9.4	4	PM12A-1.25-040	BOLT, Metric M12-1.25 x 40
10.1	2	-	-
10.2	2	A42885P	WASHER, Alignment Pin
10.3	2	A43639P	WASHER, Alignment Pin 28.5
10.4	2	A43639P	WASHER, Alignment Pin 28.5
11.1	2	A43115P	PIN, Extension Alignment 20
11.2	2	A42884P	PIN, Extension Alignment 22.5
11.3	2	A43638P	PIN, Extension Alignment 28.5
11.4	2	A43638P	PIN, Extension Alignment 28.5
12.1	2	A43114P	PIN, Alignment 20
12.2	2	A42879P	PIN, Alignment 22.5
12.3	2	A43608P	PIN, Alignment 28.5
12.4	2	A43608P	PIN, Alignment 28.5
13	1	A43188P	KEY
14	1	P0097-026A	KIT, SAE C 2/4 Bolt Mount
15	1	P0097-026B	KIT, Universal Mount

* PCH 22.5 SN FA42850F-1 uses P088-148 Oring.

PCH CUTTER HEADS **POWERED CUTTER HEAD**

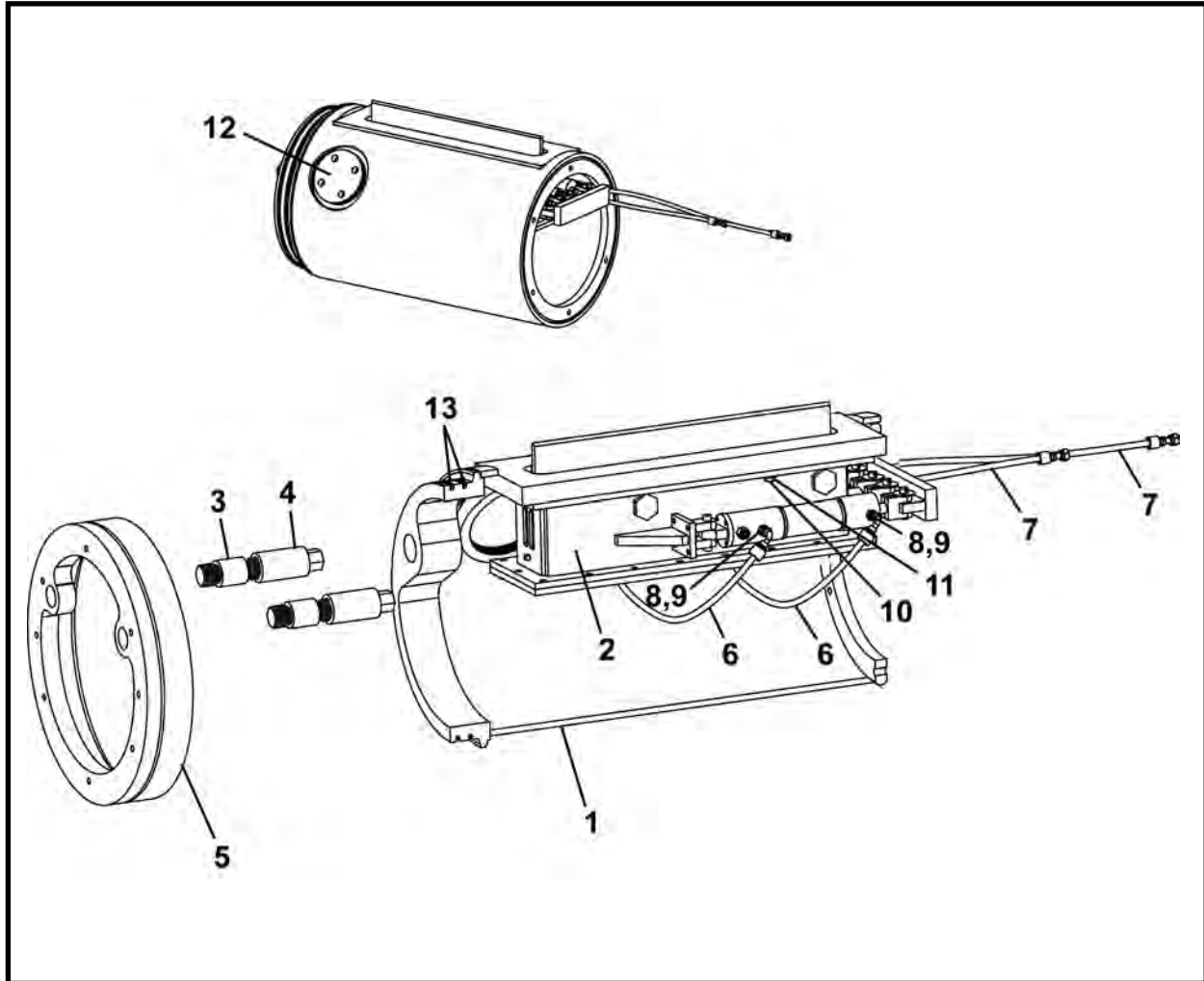


ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	A43154A	ASSEMBLY, Cutter Head PCH 20
0.2	1	A42929A	ASSEMBLY, Cutter Head PCH 22.5
0.3	1	A43610A	ASSEMBLY, Cutter Head PCH 28.5
0.4	1	A47953A	ASSEMBLY, Cutter Head PCH 30.5
1	10/10/18/22	P0051-021	HOLDER, Bit
2	6/6/10/14	P0050-041A	TOOTH
3	10/10/18/22	P0050-045	CUTTER BIT (Includes item 3a)
3a	10/10/18/22	P0050-045A	LOCK RING
4	10/10/18/22	A43159P	PAD

NOTES

PCH DIRT WING CAN, 22.5" OD, FA45824F

PCH 22.5



ITEM	QTY	PART NO.	DESCRIPTION
0*	1	FA45824F	PCH DIRT WING CAN, 22.5 OD
1	1	A45833A	CAN, Dirt Wing
2**	1	A44145A	ASSEMBLY, Torque Wing
3	2	A42879P	PIN, Alignment
4	2	A42884P	EXTENSION, Alignment Pin
5	1	A45853A	ADAPTER, Spigot
6	2	A10327A-027	ASSEMBLY, Hose 1/4 x 27
7	2	A10364A-093	ASSEMBLY, Hose 1/4 x 93
8	2	P0300-356	FITTING, 06MFOR-06MB
9	2	P0300-376	FITTING, 06MFOR-06MFOR-06MB
10	18	P0001-08-006	BOLT, 1/2 UNC x 1.5
11	18	P0040-008	WASHER, Hardened Flat 1/2
12	2	A01199P0	PORT, Access
13	2	P0088-156	ORING

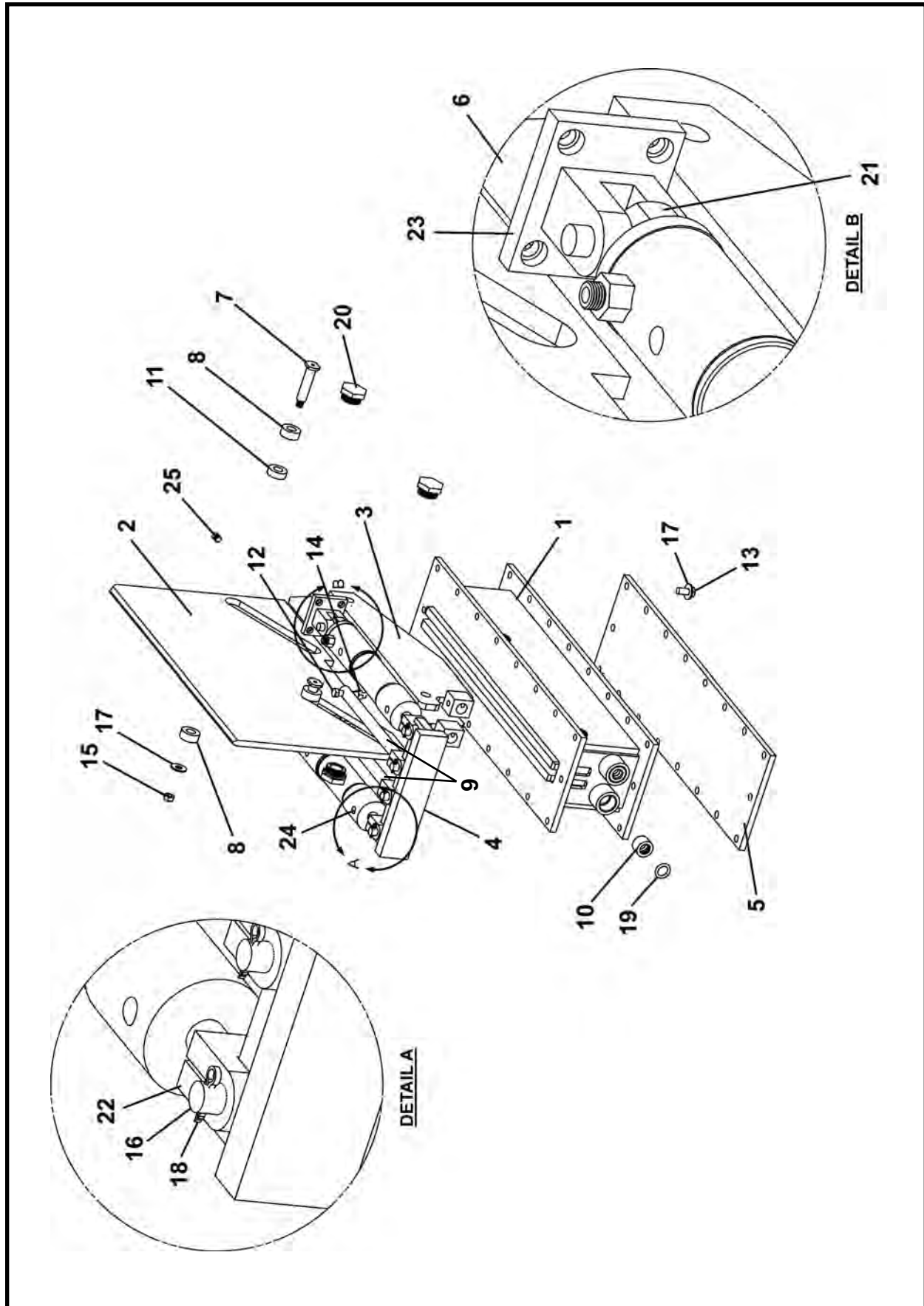
* An 26" OD increaser kit, A45825A is available for this PCH Dirt Wing Can 22.5" OD, FA45824F.

** Refer to this section for parts information.

NOTE: The dirt wing can is mounted after the PCH rear section.

TORQUE WING ASSEMBLY, A44145A

PCH 22.5

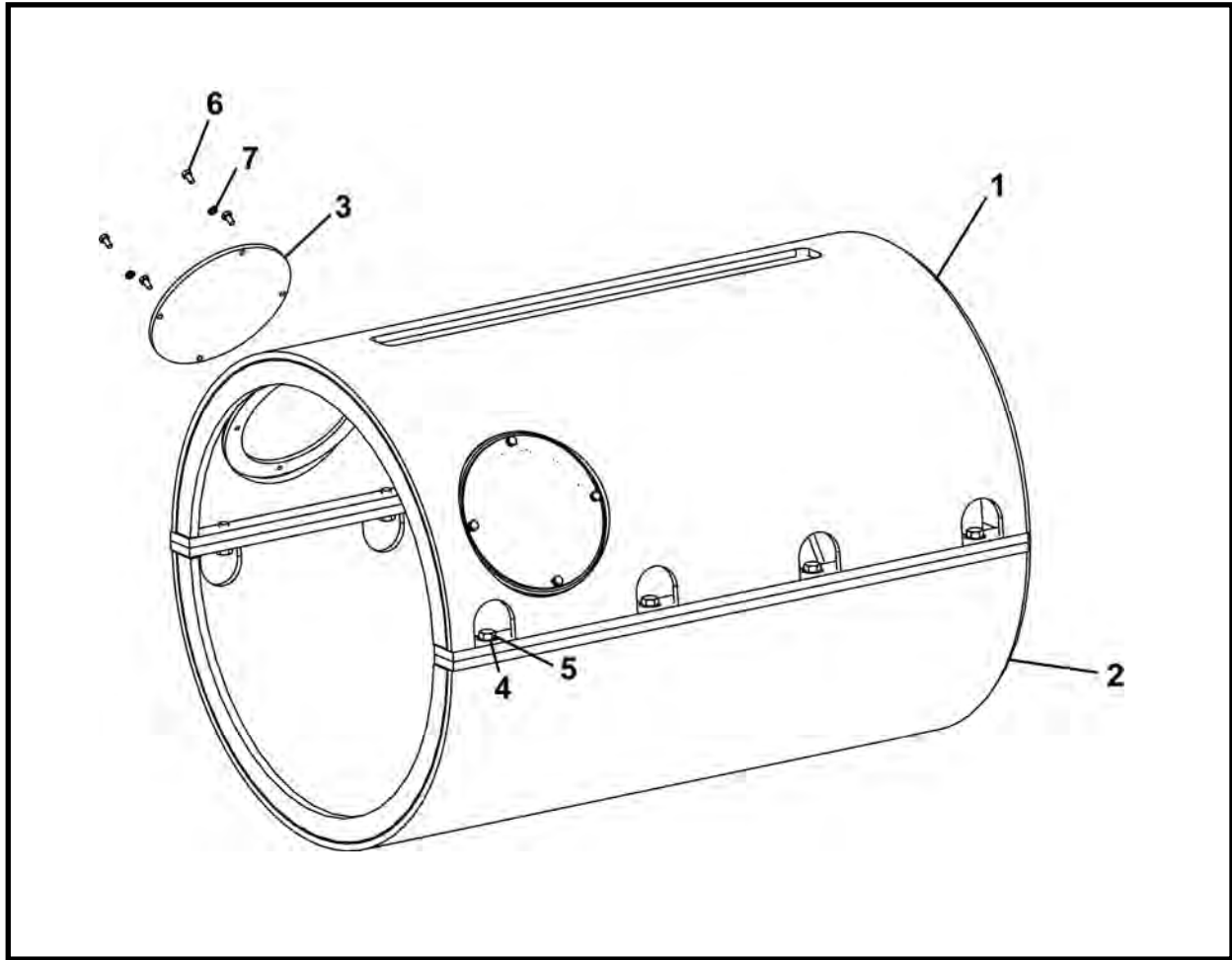


TORQUE WING ASSEMBLY, A44145A**PCH 22.5**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44145A	TORQUE WING ASSEMBLY
1	1	A05306A0	FRAME, Torque Wing
2	1	A05307P1	BLADE, Standard Torque Wing
3	1	A05309A0	WELDMENT, Bar
4	1	A05310A0	WELDMENT, Thrust Bar
5	1	A05311P0	PLATE, Torque Wing Frame
6	2	A05312P0	BAR, Torque Wing
7	2	A05313P0	ROD, Torque Wing
8	2	A05314P0	ROD, Torque Wing
9	2	A05315P0	ROD, Torque Wing
10	2	A05316P0	ROD
11	2	007240P00	ROLLER
12	2	P0001-07-010	BOLT, 7/16 UNC x 2.5
13	36	P0001-08-004	BOLT, 1/2 UNC x 1
14	2	P0003-07-000	NUT, 7/16
15	36	P0003-08-000	NUT, 1/2
16	4	P0024-014	PIN
17	38	P0040-008	WASHER, Hardened Flat 1/2
18	4	P0048-032	PIN, Cotter
19*	2	P0085-118	ORING
20	4	P0300-146	FITTING, 20MB-PLUG Hollow Back
21**	-	P0307-136A	MOUNT, Cylinder Pivot
22	2	P0307-136B	KIT, Rod Clevis
23**	-	P0307-136C	BRACKET, Clevis
24	2	P0307-204	CYLINDER
25	1	P0416-001	PLUG, Square Head 1/4

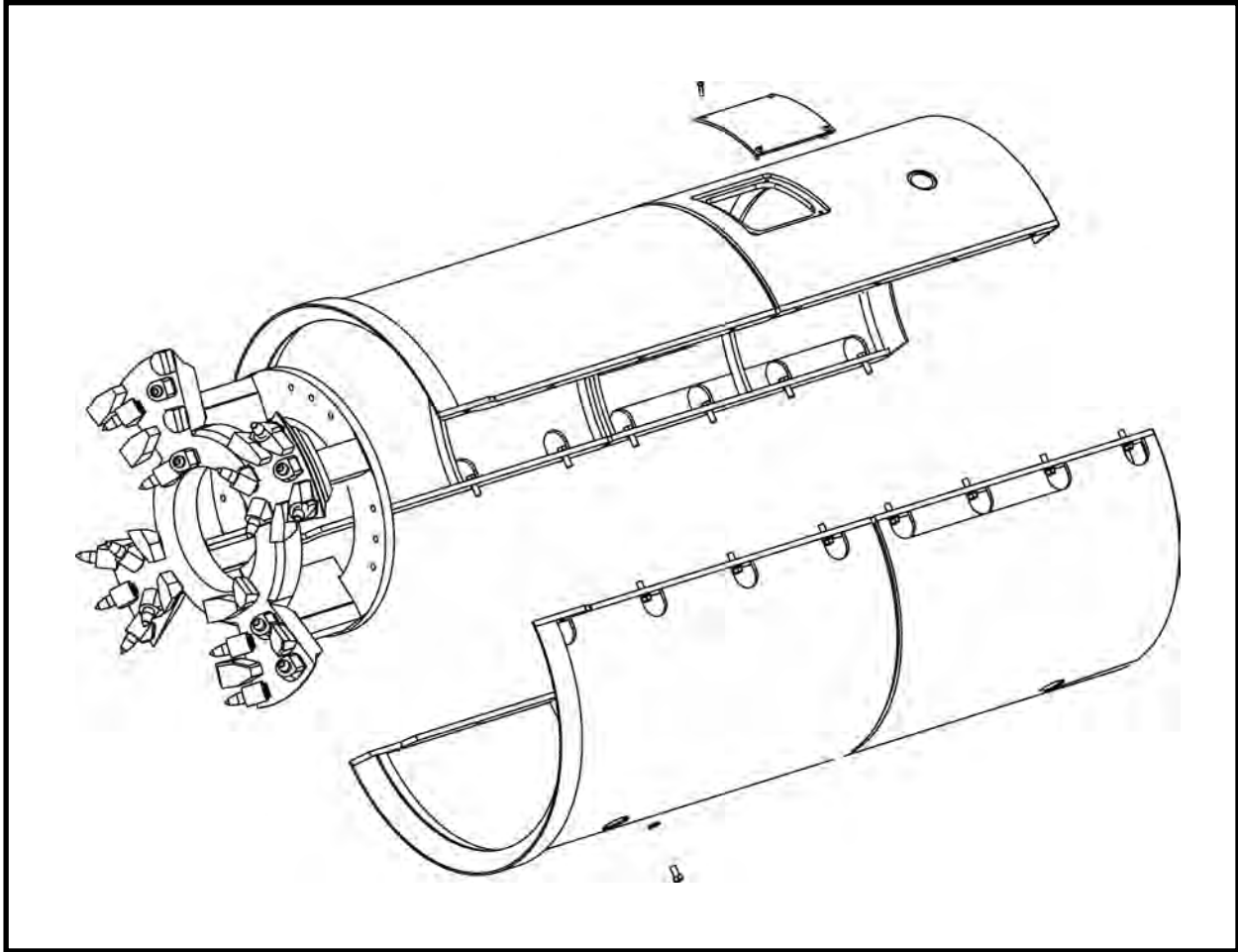
** Included with item 24, P0307-204 Cylinder

DIRT WING CAN SKIN ASSEMBLY, 26" OD, A45825A



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45825A	DIRT WING CAN SKIN ASSEMBLY, 26" OD
1	1	A45856A	SKIN, Top
2	1	A45857A	SKIN, Bottom
3	2	A43142P	COVER, Port
4	8	P0040-008	WASHER, Hardened Flat 1/2
5	8	P0001-08-005	BOLT, 1/2 UNC x 1.25
6	8	P0001-04-002	BOLT, 1/4 UNC x .5
7	8	P0045-004	WASHER, Lock 1/4

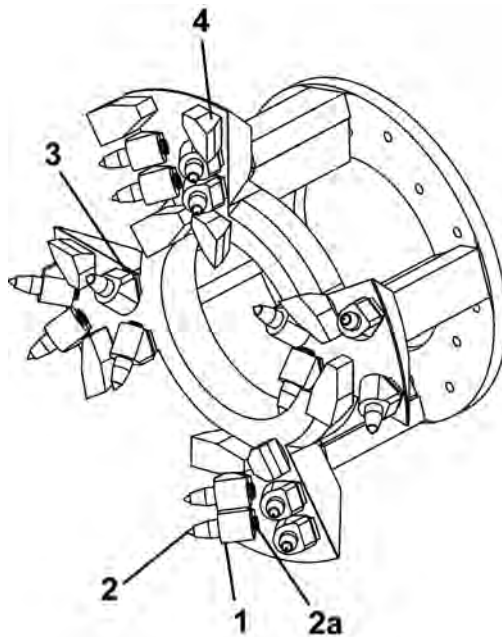
PCH SKIN ASSEMBLY **PCH INCREASE KITS**



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA43153F	ASSEMBLY, 20 To 22.5 PCH Skin
0.2	1	FA45966F	ASSEMBLY, 22.5 To 23 PCH Skin
0.3	1	FA43731F	ASSEMBLY, 22.5 To 24 PCH Skin
0.4	1	FA46081F	ASSEMBLY, 22.5 To 24.5 PCH Skin
0.5	1	FA44888F	ASSEMBLY, 22.5 To 26 PCH Skin
0.6	1	FA43214F	ASSEMBLY, 22.5 To 28.5 PCH Skin
0.7	1	FA44290F	ASSEMBLY, 28.5 To 29.5 PCH Skin
0.8	1	FA46017F	ASSEMBLY, 28.5 To 30 PCH Skin
0.9	1	FA44576F	ASSEMBLY, 28.5 To 30.1 PCH Skin
0.10	1	FA43700F	ASSEMBLY, 28.5 To 30.5 PCH Skin
0.11	1	FA45628F	ASSEMBLY, 28.5 To 31.5 PCH Skin
0.12	1	FA47567F	ASSEMBLY, 28.5 To 31.5 PCH Skin
0.13	1	FA45323F	ASSEMBLY, 28.5 To 32 PCH Skin

Note: For more information, contact your Akkerman Aftermarket Support representative.

PCH CUTTER HEAD



ITEM	QTY	PART NO.	DESCRIPTION
1	A/R	P0051-021	HOLDER, Bit
2	A/R	P0050-045	CUTTER BIT (Includes item 2a)
2a	A/R	P0050-045A	LOCK RING
3	A/R	A43159P	PAD
4	A/R	P0050-041A	TOOTH

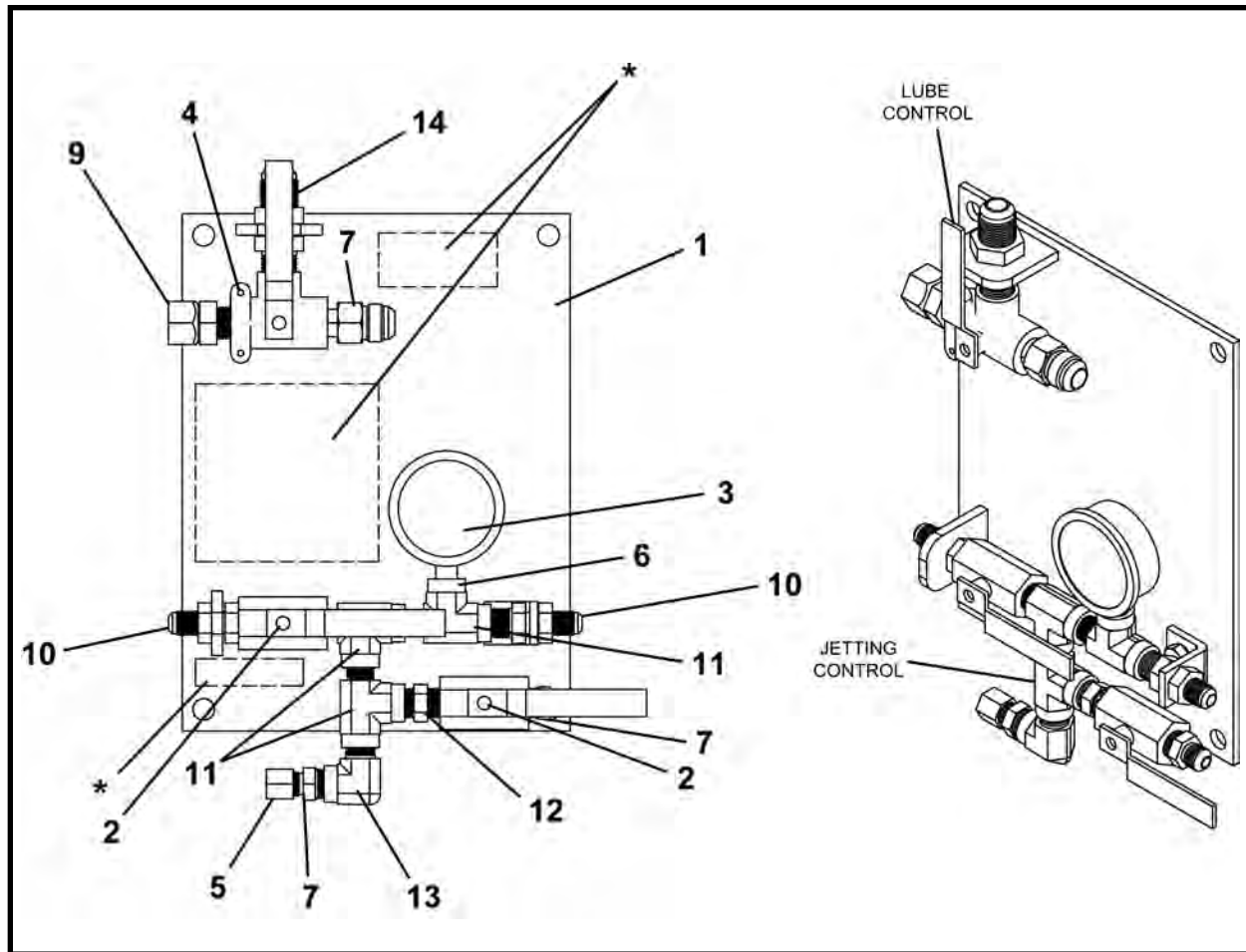
A/R - As Required

Note: For more information, contact your Akkerman Aftermarket Support representative.

NOTES

PCH JETTING & LUBE PIT CONTROL, A43749A

PCH



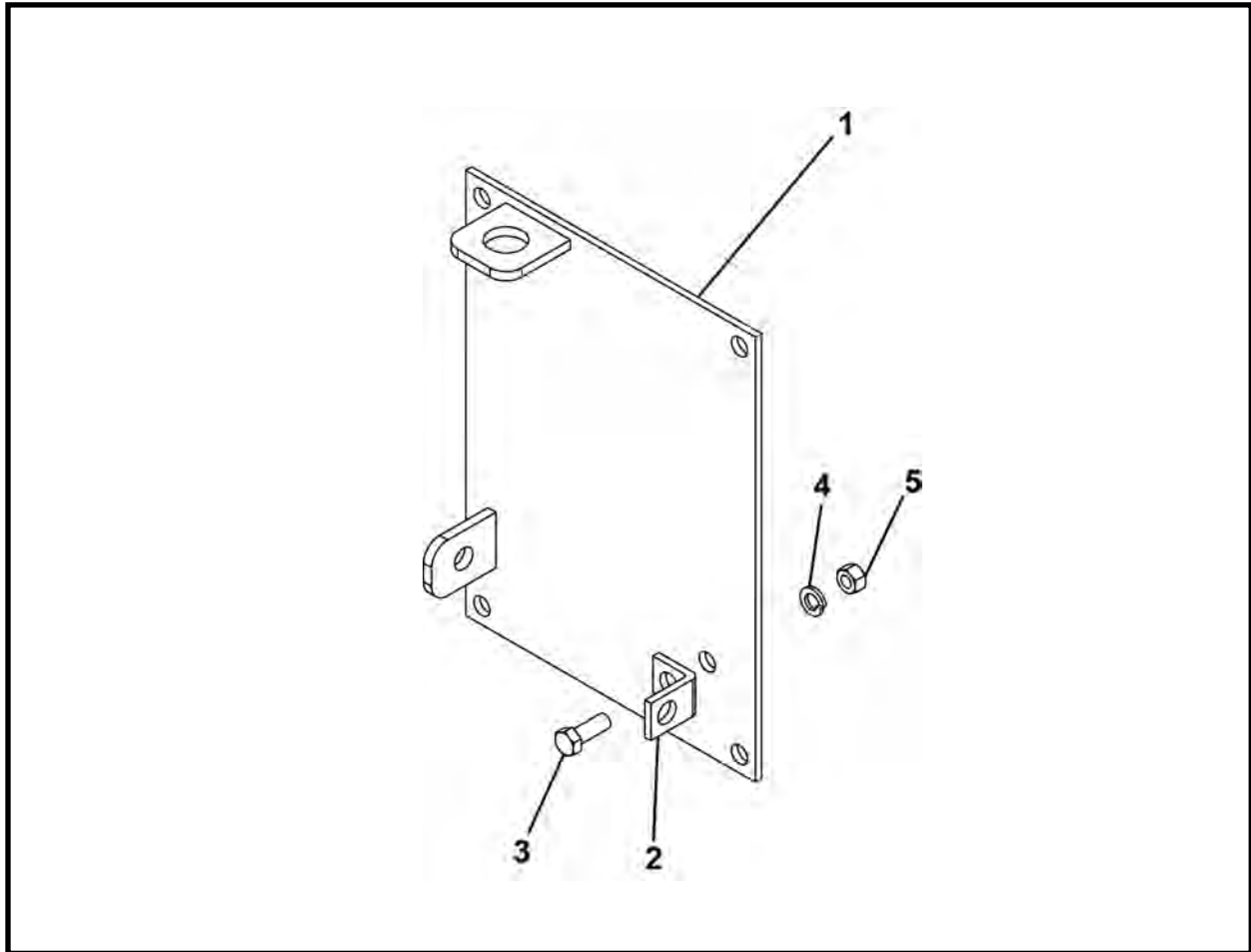
ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43749A	PCH JETTING & LUBE PIT CONTROL
1**	1	A43758A	ASSEMBLY, PCH Pit Control Mount
2	2	P0302-507	VALVE, Ball 3/8" 2,000 PSI
3	1	P0301-100	GAUGE, Pressure 5000 PSI
4	1	P0302-512	VALVE, Ball 3-Way
5	1	P0300-126	FITTING, 06FJ-CAP
6	1	P0300-093	FITTING, 06MP-04FPS
7	2	P0300-130	FITTING, 06MJ-06MP
8	1	P0300-142	FITTING, 10MJ-08MP
9	1	P0300-399	FITTING, 08MP-10FJX
10	2	P0300-568	FITTING, 6MJ-6MPBKHD
11	3	P0300-569	FITTING, 6MP-6FP-6FP
12	1	P0300-570	FITTING, 6MP-6MP
13	1	P0300-571	FITTING, 6MP-6FP90
14	1	P0300-567	FITTING, 10MJ-8MPKBHD

* Decal 1250-917

** Refer to this section for parts information.

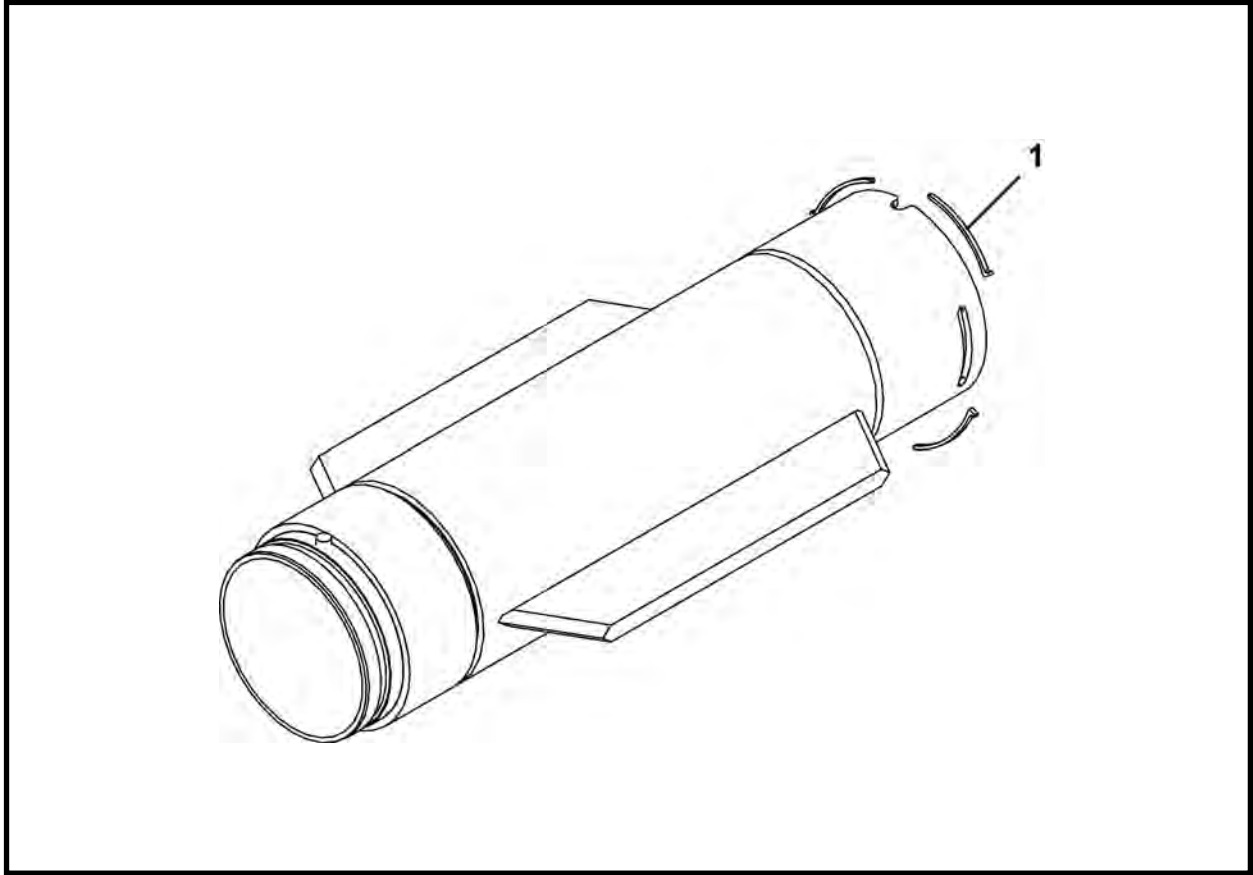
PCH PIT CONTROL MOUNT ASSEMBLY, A43758A

PCH



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A43758A	ASSEMBLY, PCH PIT CONTROL MOUNT
1	1	A43757A	MOUNT, Pit Control
2	1	A43754P	BRACKET, Pipe Lube Control
3	1	P0001-06-004	BOLT, 3/8 UNC x 1
4	1	P0045-006	WASHER, Lock 3/8
5	1	P0003-06-000	NUT, 3/8

WINGED CASING 11" OD, FA43186F
POWERED CUTTER HEAD

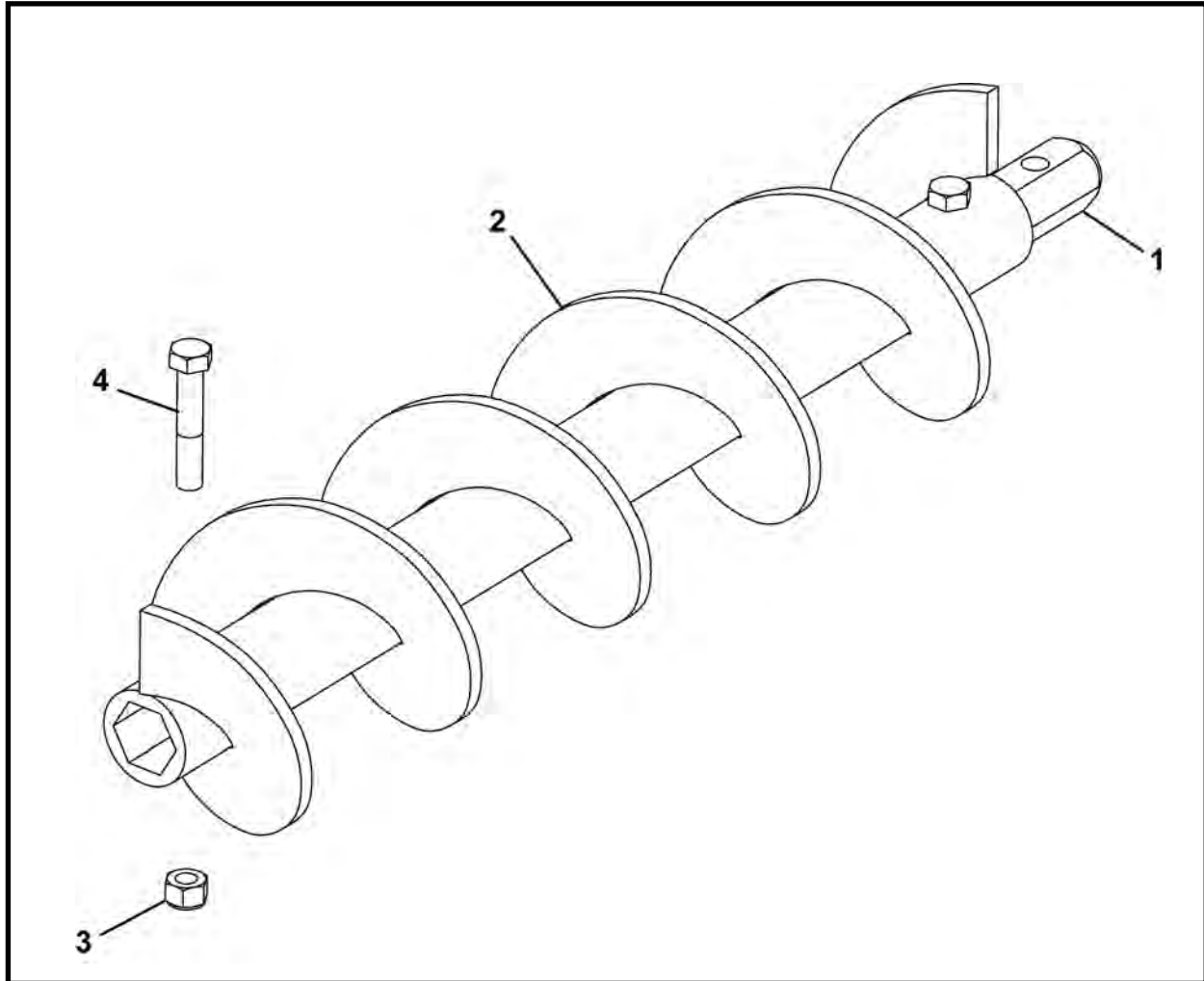


ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43186F	CASING, Winged 11" OD
1*	4	A40602P	CLIP, Retaining 11" OD Casing

* Not included with Winged Casing FA43186F.

NOTE: Use Auger Assembly, FA42057F with Winged Casing FA43186F.

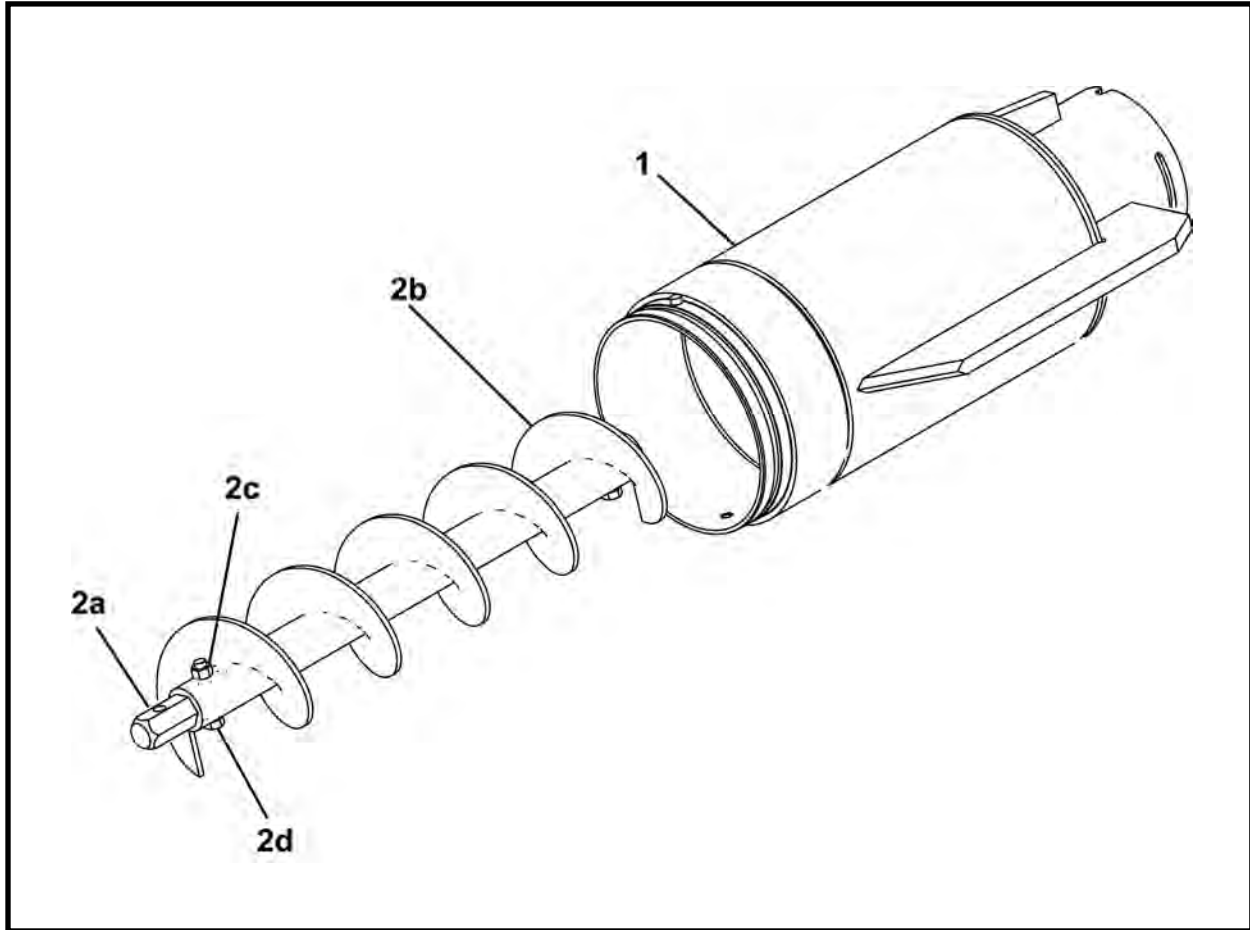
AUGER ASSEMBLY, 11" OD, FA42057F
POWERED CUTTER HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0*	1	FA42057F	AUGER ASSEMBLY, 11" OD Casing
1	1	A42135P	SHAFT, Hex End
2	1	A42058A	WELDMENT, Auger 9.25 OD
3	2	P0013-12A-000	NUT, Nylock Lock 3/4
4	2	P0001-12-016	BOLT, 3/4 UNC x 4

NOTE: Use Auger Assembly, FA42057F with Winged Casing FA43186F.

11" - 16" OD STEPPED CASING ASSEMBLY, A45386A
PCH

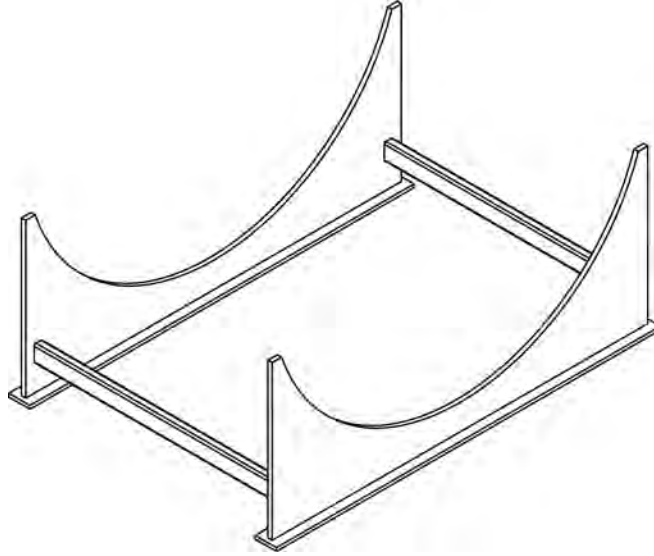


ITEM	QTY	PART NO.	DESCRIPTION
0	1	A45386A	STEPPED CASING ASSEMBLY, 11" - 16" OD
1	1	A45387A	CASING, Stepped
2	1	FA42057F	AUGER ASSEMBLY, 9.25 OD x 1M (Includes items 2a - 2d)
2a	1	A42135P	SHAFT, Hex End
2b	1	A42058A	WELDMENT, Auger 9.25 OD
2c	2	P0013-12A-000	NUT, Nylock Lock 3/4
2d	2	P0001-12-016	BOLT, 3/4 UNC x 4

Note: This assembly is installed behind the 16" OD casing (100 ton) and in front of the PCH.

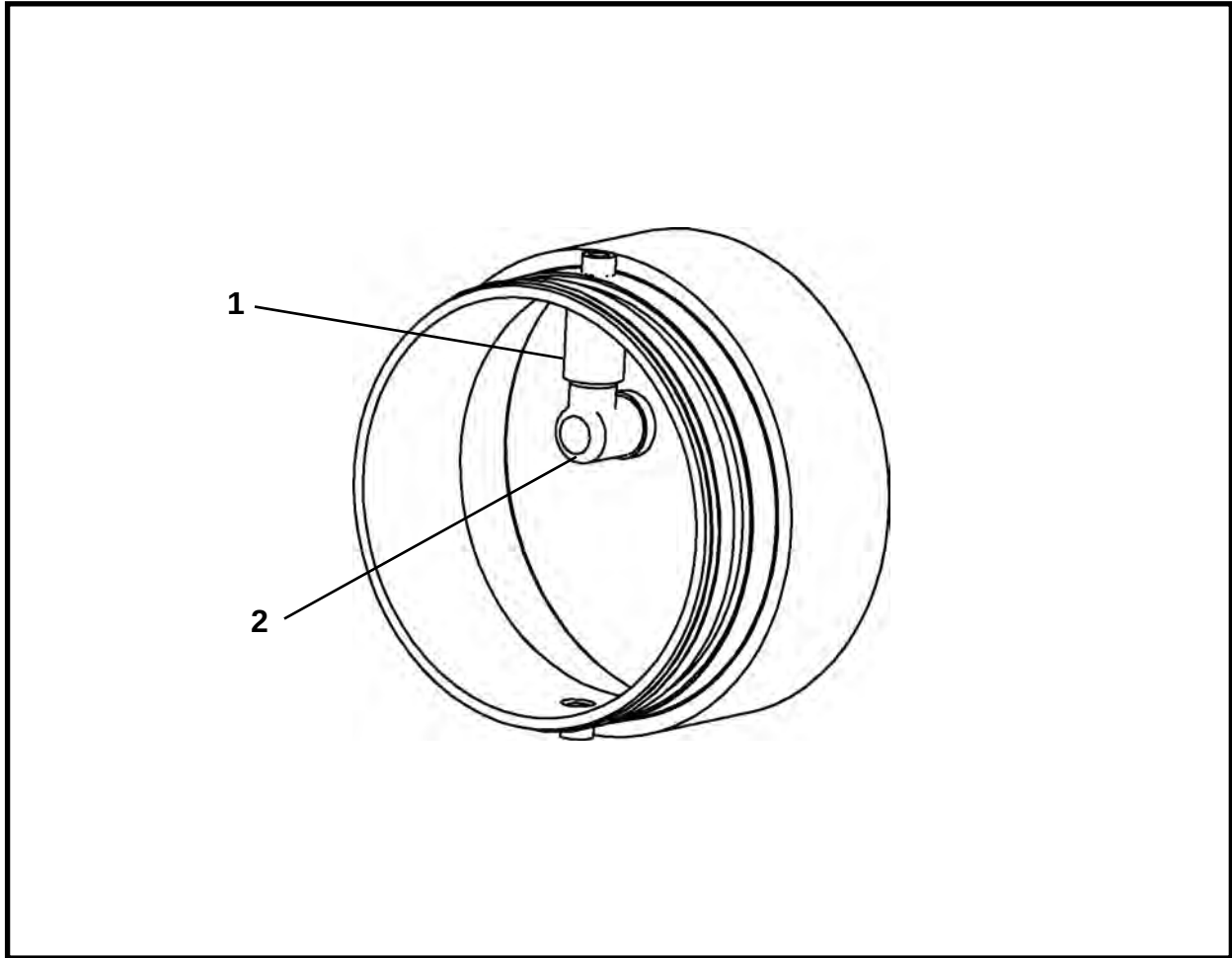
PCH SHIPPING CRADLE

PCH



ITEM	QTY	PART NO.	DESCRIPTION
1	1	A41910A	CRADLE, PCH Shipping - 20"
2	1	A41911A	CRADLE, PCH Shipping - 22.5"
3	1	A41919A	CRADLE, PCH Shipping - 24"
4	1	A41917A	CRADLE, PCH Shipping - 26"
5	1	A41933A	CRADLE, PCH Shipping - 26.5"
6	1	A41912A	CRADLE, PCH Shipping - 28.5"
7	1	A41916A	CRADLE, PCH Shipping - 29.5"
8	1	A41915A	CRADLE, PCH Shipping - 30.5"

PIPE CASING ADAPTER



ITEM	QTY	PART NO.	DESCRIPTION
0.1*	1	FA40283F	CLAY PIPE TO CASING ADAPTER, 8" DENLOK VCP
0.2*	1	FA40295F	PIPE TO CASING ADAPTER, 293 MM OD x 225 ID DENLOK
0.3*	1	FA40303F	CLAY PIPE TO CASING ADAPTER, 8" NO DIG VCP
0.4**	1	FA40318F	CASING TO PIPE ADAPTER, 10" DUCTILE IRON PIPE
0.5*	1	FA40323F	CLAY PIPE TO CASING ADAPTER, 10" NO DIG VCP
0.6*	1	FA40335F	CLAY PIPE TO CASING ADAPTER, 10" DENLOK VCP
0.7*	1	FA40343F	CLAY PIPE TO CASING ADAPTER, 12" NO DIG VCP
0.8*	1	FA42294F	11" CASING TO 8" VCP
0.9*	1	A47605A	CASING PIPE ADAPTER, 12" Denlok
0.10*	1	FA48150F	PIPE CASING ADAPTER, 12" Denlok - HD
0.11***	1	FA42803F	20" CASING TO PIPE ADAPTER, 15" Mission (15" NO-DIG)
1	1	P0400-004	COUPLING, Pipe 3/4
2	1	P0412-004A	ELBOW, Street 90 Degree 3/4

Use the following thrust adapters with the pipe casing adapters:

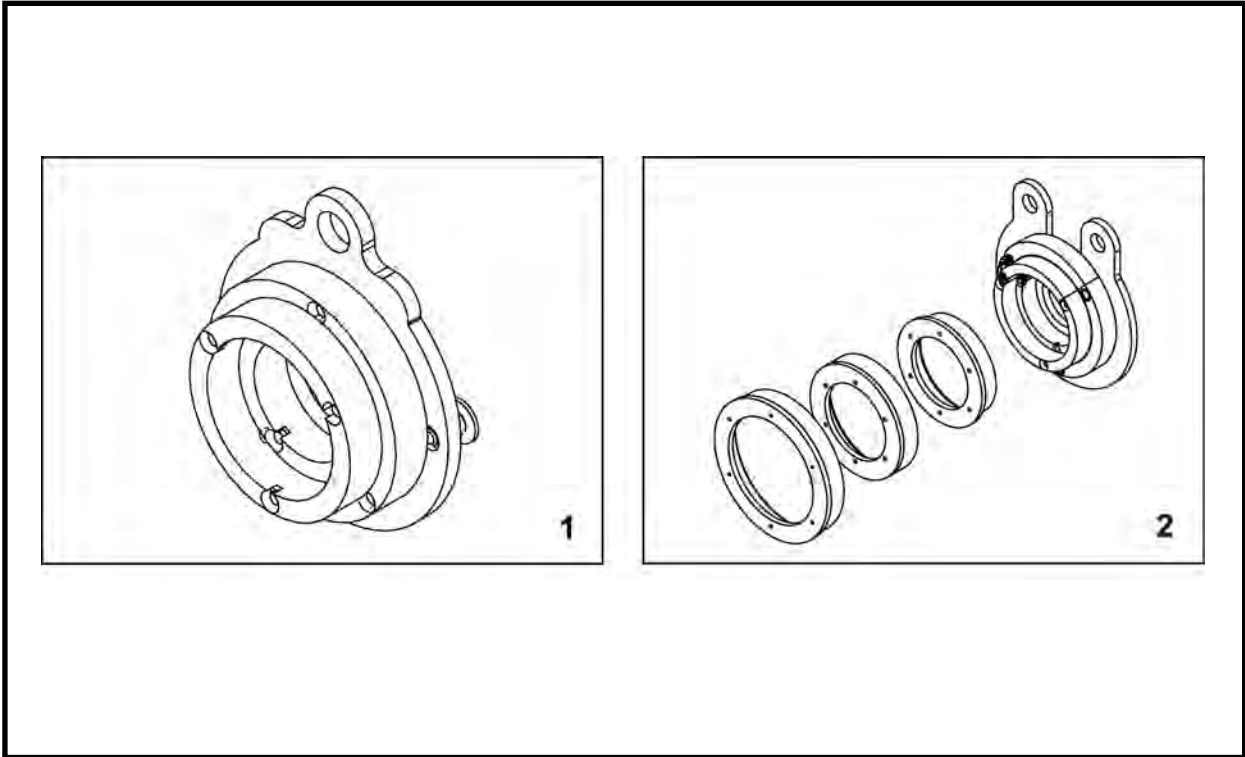
* FA43305F, 8"

** FA43376F, 10"

*** FA42816F, 15"

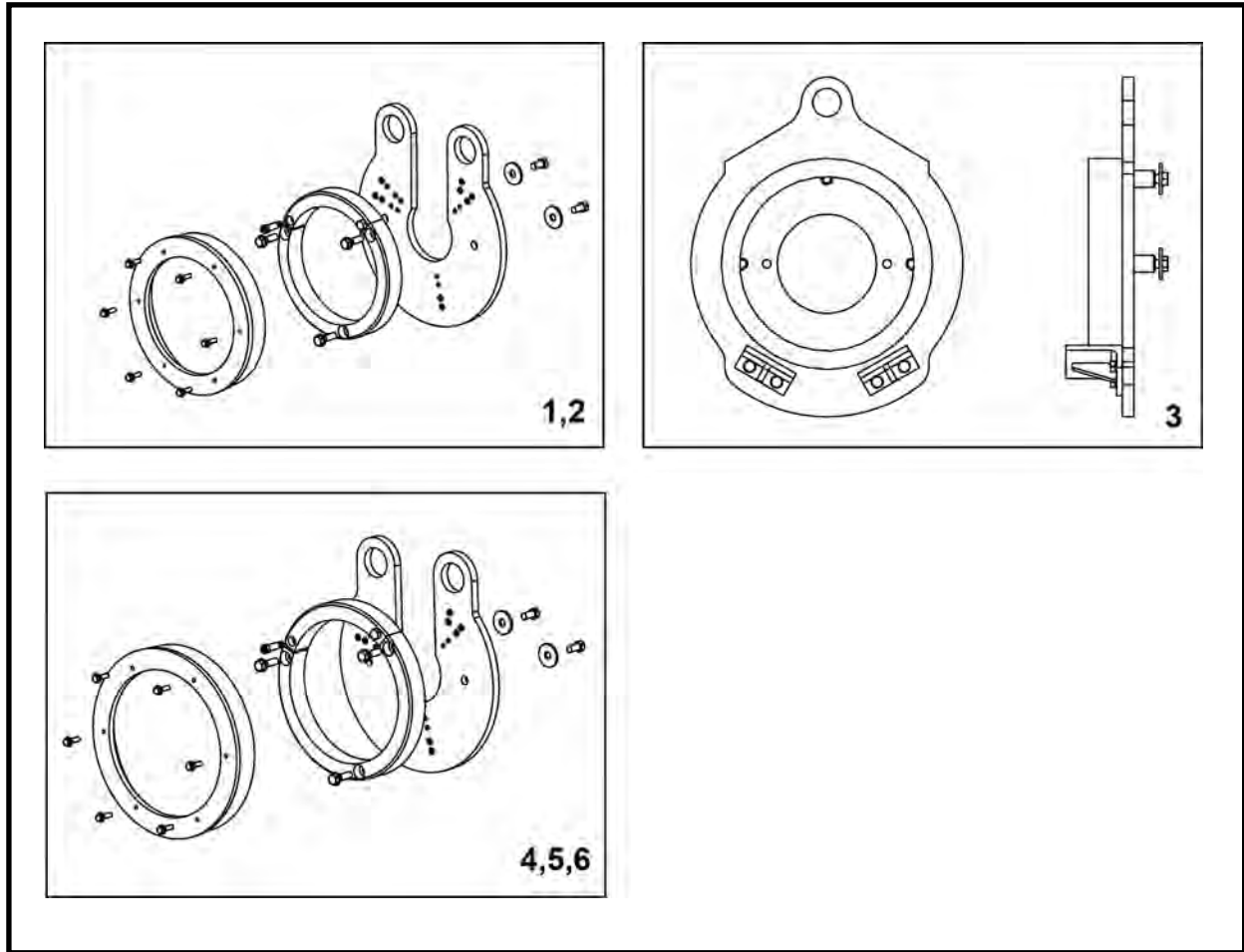
NOTES

**PUSH PLATE / PIPE ADAPTER SET - 8", 10", 12", 15" NO-DIG
11" CASINGS - 14" CASINGS - 16" CASINGS - PRH**



ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA43305F	PUSH PLATE ASSEMBLY - 8", 10", 12" ID (11-14-16"Casings)
2	1	FA45428F	PIPE ADAPTER SET 10 - 12 - 15 No-Dig (PRH)

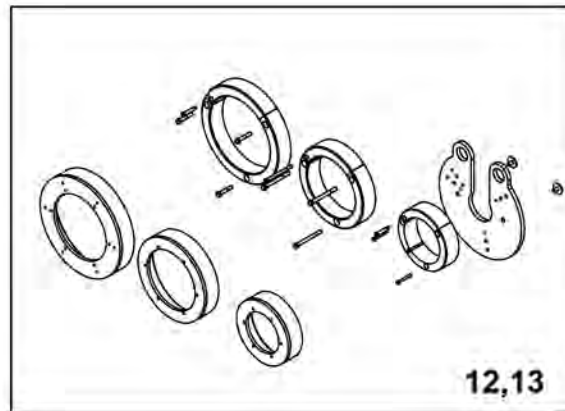
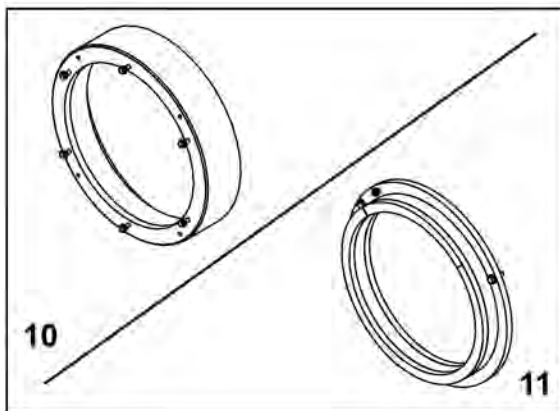
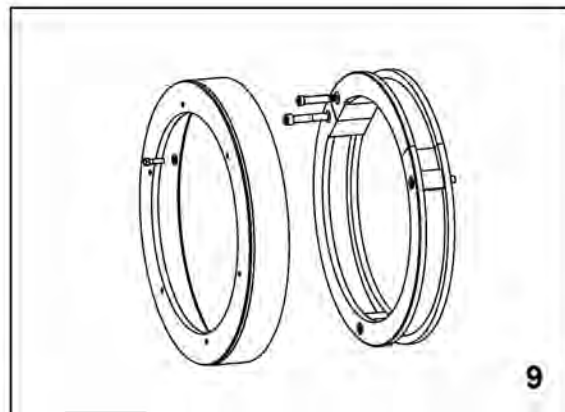
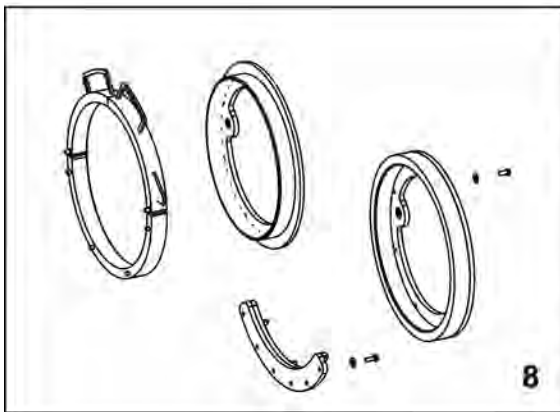
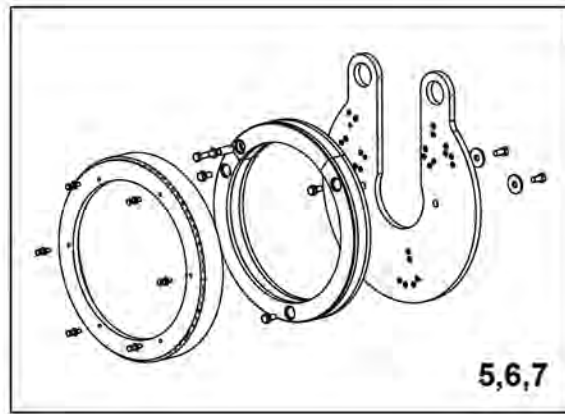
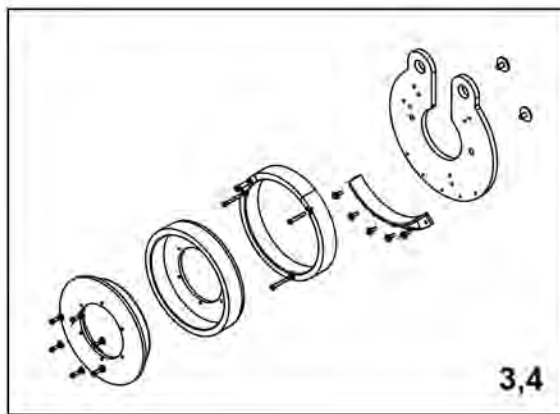
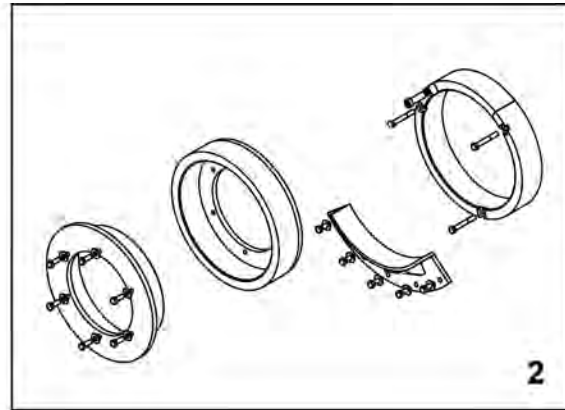
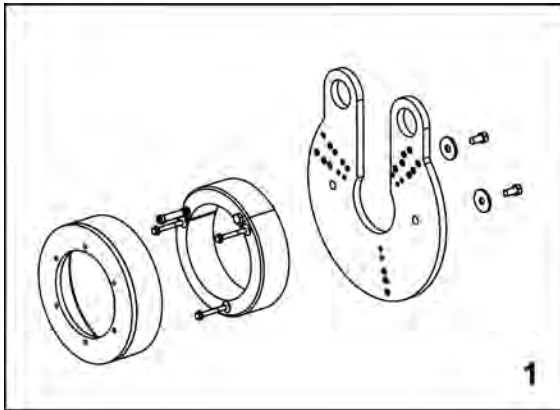
**PIPE ADAPTER SET, NO-DIG
20" CASINGS - PCH**



ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA43173F	PIPE ADAPTER SET, 15" No-Dig (PCH20)
2	1	FA43215F	PIPE ADAPTER SET, 24" No-Dig (PCH 28.5)
3	1	FA42816F	PIPE ADAPTER SET, 15" ID Mission VCP (20" Casing)
4	1	FA43166F	PIPE ADAPTER SET, 18 MCP (PCH22.5)
5	1	FA46108F	PIPE ADAPTER SET, 18" No-Dig(PCH22.5 Incr to 24.5)
6	1	FA47111F	PIPE ADAPTER SET, 24" No-Dig (PCH28.5)

Incr - Increased

PIPE ADAPTER SET, RCP

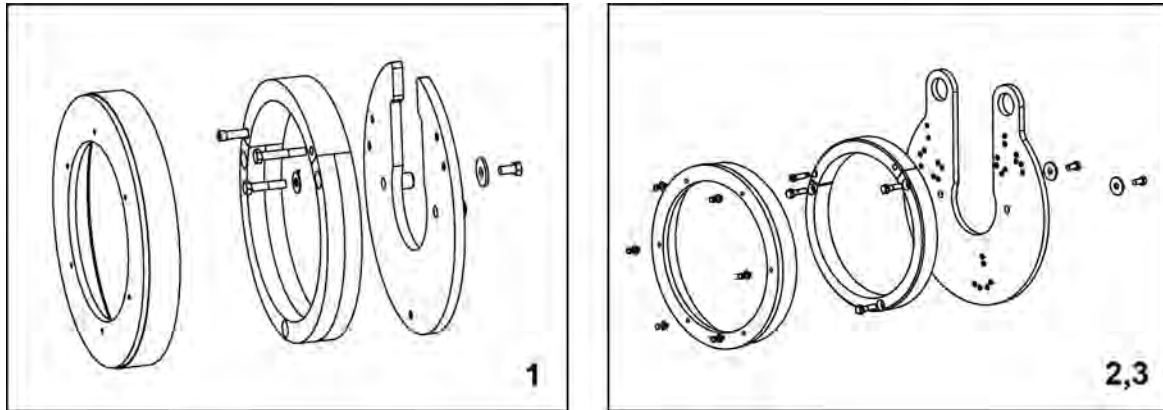


PIPE ADAPTER SET, RCP

ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA46508F	PIPE ADAPTER SET, 300MM ID RCP (PRH Incr to 17)
2	1	A45724A	PIPE ADAPTER SET, 300MM ID RCP (PRH Incr to 17.5)
3	1	A45725A	PIPE ADAPTER SET, 375MM ID RCP (PRH Incr to 21)
4	1	FA46109F	PIPE ADAPTER SET, 450MM RCP (PCH22.5 Incr to 24.5)
5	1	FA44821F	PIPE ADAPTER SET, 400MM (PCH20 Incr to 22)
6	1	FA45983F	PIPE ADAPTER SET, 18 RCP (PCH22.5 incr to 23)
7	1	FA48012F	PIPE ADAPTER SET, DN600 RCP (PCH28.5 incr to 30.13)
8	1	FA45621F	PIPE ADAPTER SET, 600MM RCP (PCH28.5 Incr to 31.5)
9	1	FA46034F	PIPE ADAPTER SET, 24" RCP (PCH28.5 Incr to 30)
10	1	FA47884F	PIPE ADAPTER ASSEMBLY, 525MM RCP (PCH28.5)
11	1	FA47890F	SPIGOT THRUST ADAPTER, 525MM RCP (PCH28.5 Incr to 31.5)
12	1	FA47399F	PIPE ADAPTER SET, 300-400-500MM RCP (PRH Series II)
13	1	FA46600F	PIPE ADAPTER SET, 300-400-500MM Midea, RCP (PRH Series I)

Incr - Increased

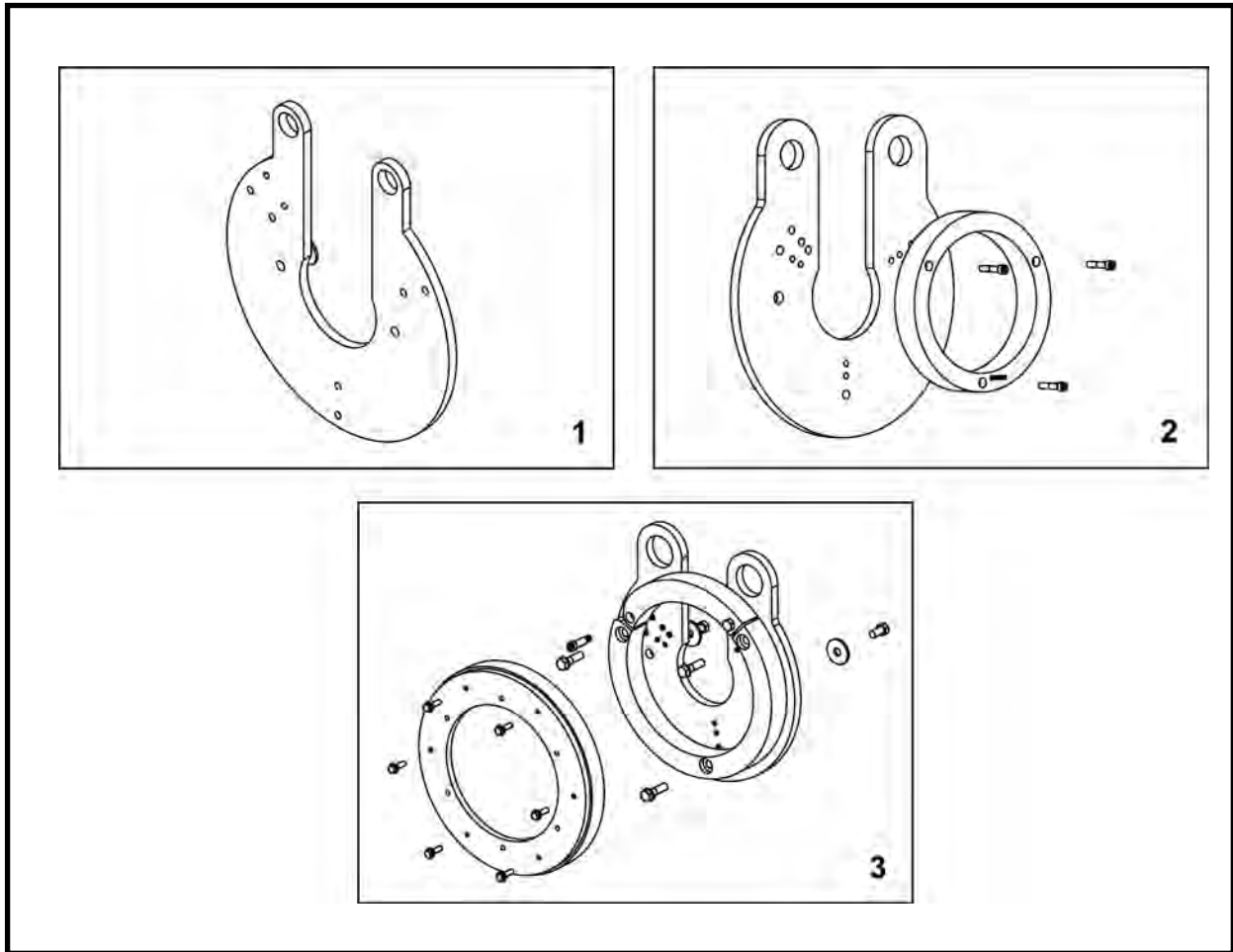
PIPE ADAPTER SET, HOBAS



ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA44889F	PIPE SET ASSEMBLY, 24" Hobas (PCH22.5 Inc)
2	1	FA43792F	PIPE ADAPTER SET ASSEMBLY, 27" ID Hobas (PCH28.5)
3	1	FA45681F	PIPE ADAPTER SET ASSEMBLY, 30" Hobas (PCH28.5 Incr)

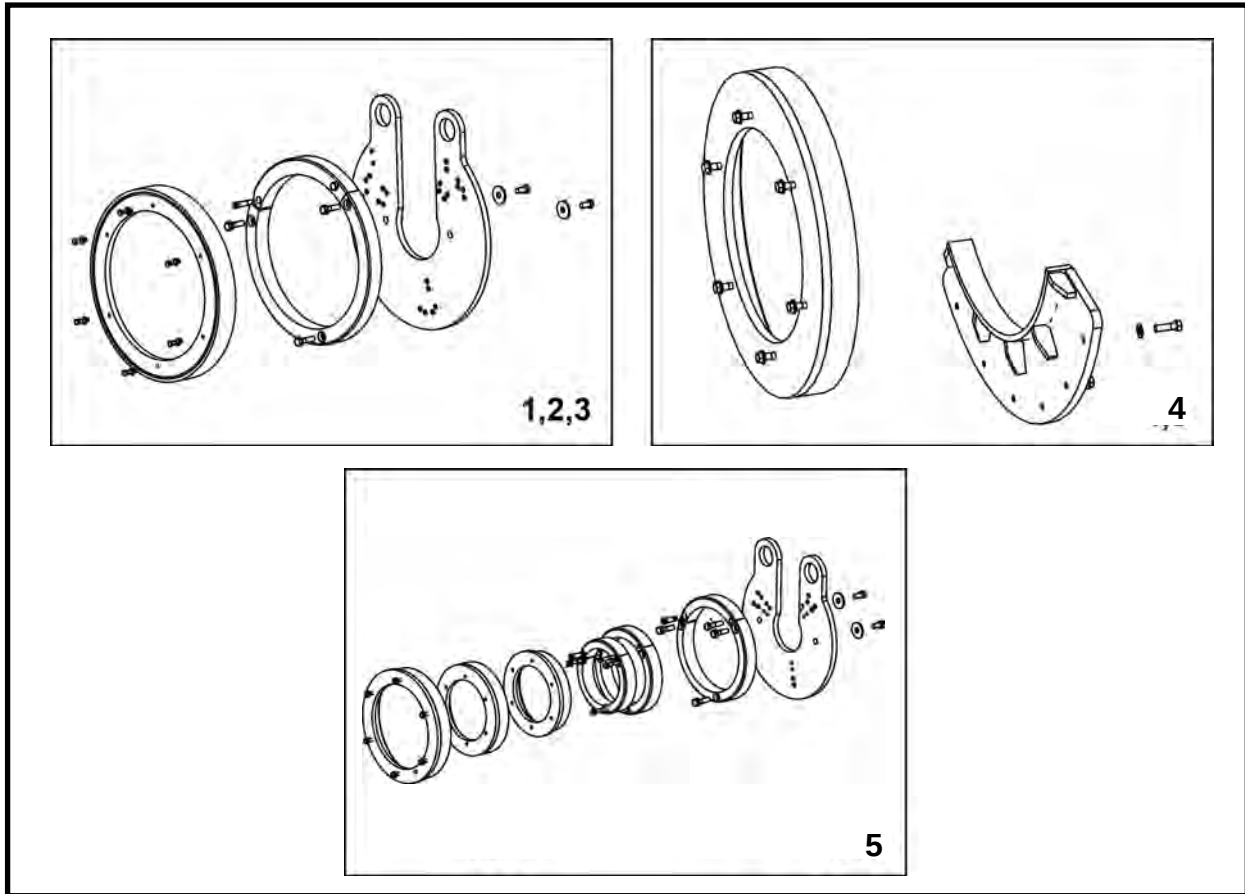
Incr - Increased

THRUST ADAPTER, DENLOK



ITEM	QTY	PART NO.	DESCRIPTION
1	1	A45934A	THRUST ADAPTER, Denlok
2	1	A47609A	THRUST ADAPTER, 12 Denlok
3	1	FA43385F	THRUST ADAPTER, 18 Denlok

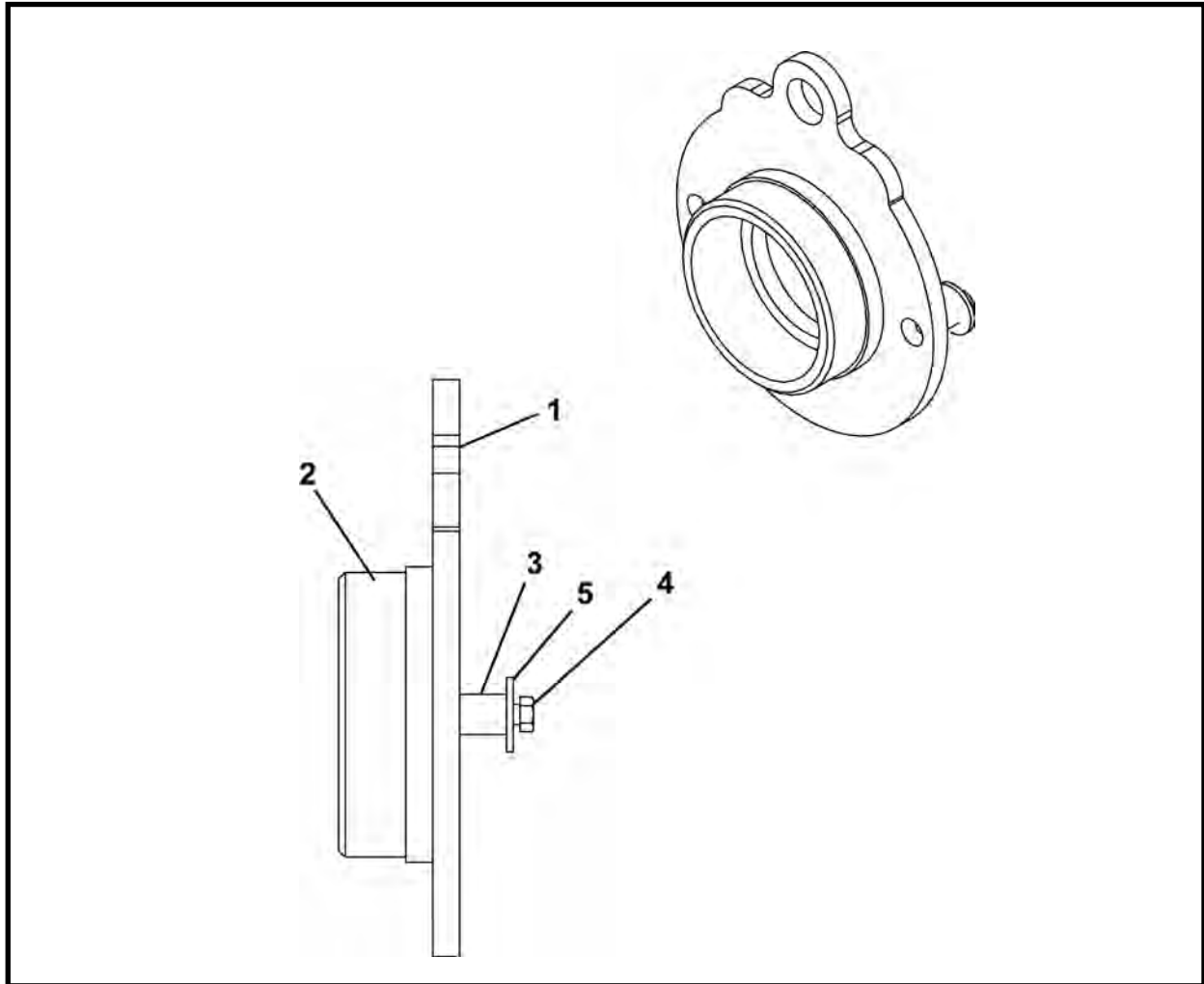
PIPE ADAPTER SET, DENLOK **PCH**



ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA44618F	PIPE ADAPTER SET, Denlok 450 (PCH 22.5 Incr to 24OD)
2	1	FA45943F	PIPE ADAPTER SET, 24 Denlok (PCH28.5 Incr to 30.3OD)
3	1	FA46272F	PIPE ADAPTER SET, 15 Denlok (PCH20)
4	1	FA46262F	PIPE ADAPTER SET, 21 Denlok (PCH22.5 Incr to 26OD)
5	1	FA47570F	PIPE ADAPTER SET, 10-12-15 Denlok (PRH)

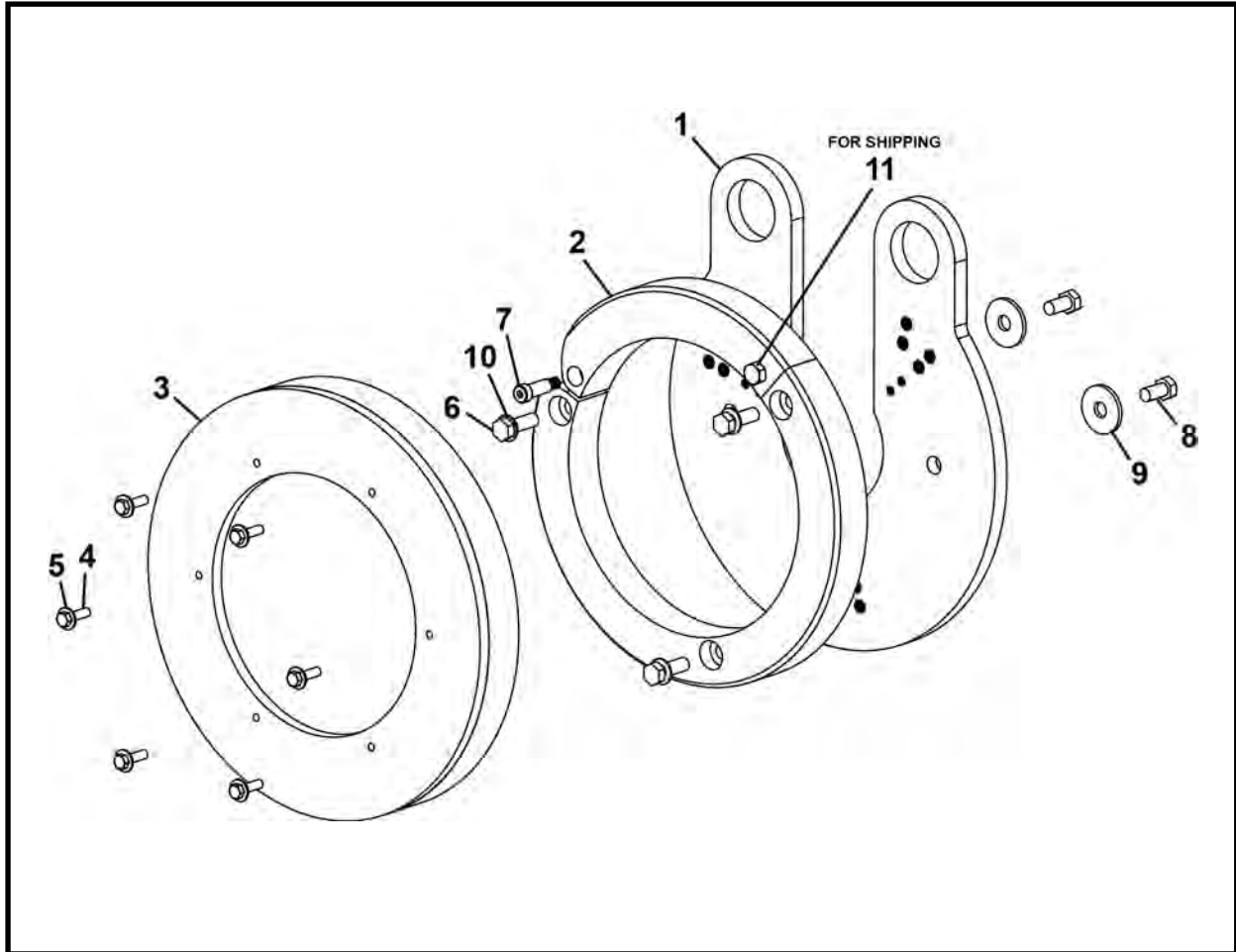
Incr - Increased

PIPE THRUST PLATE ASSEMBLY, 10" DUCTILE, FA43376F
11" CASINGS



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43376F	THRUST PLATE ASSEMBLY, 10" DUCTILE
1	1	A43375P	THRUST PLATE
2	1	A43377P	RING
3	2	A40608P	ADAPTER, Thrust Pin
4	2	P0001-12-005	BOLT, Hex 3/4 UNC x 1.25
5	2	004124P01	WASHER

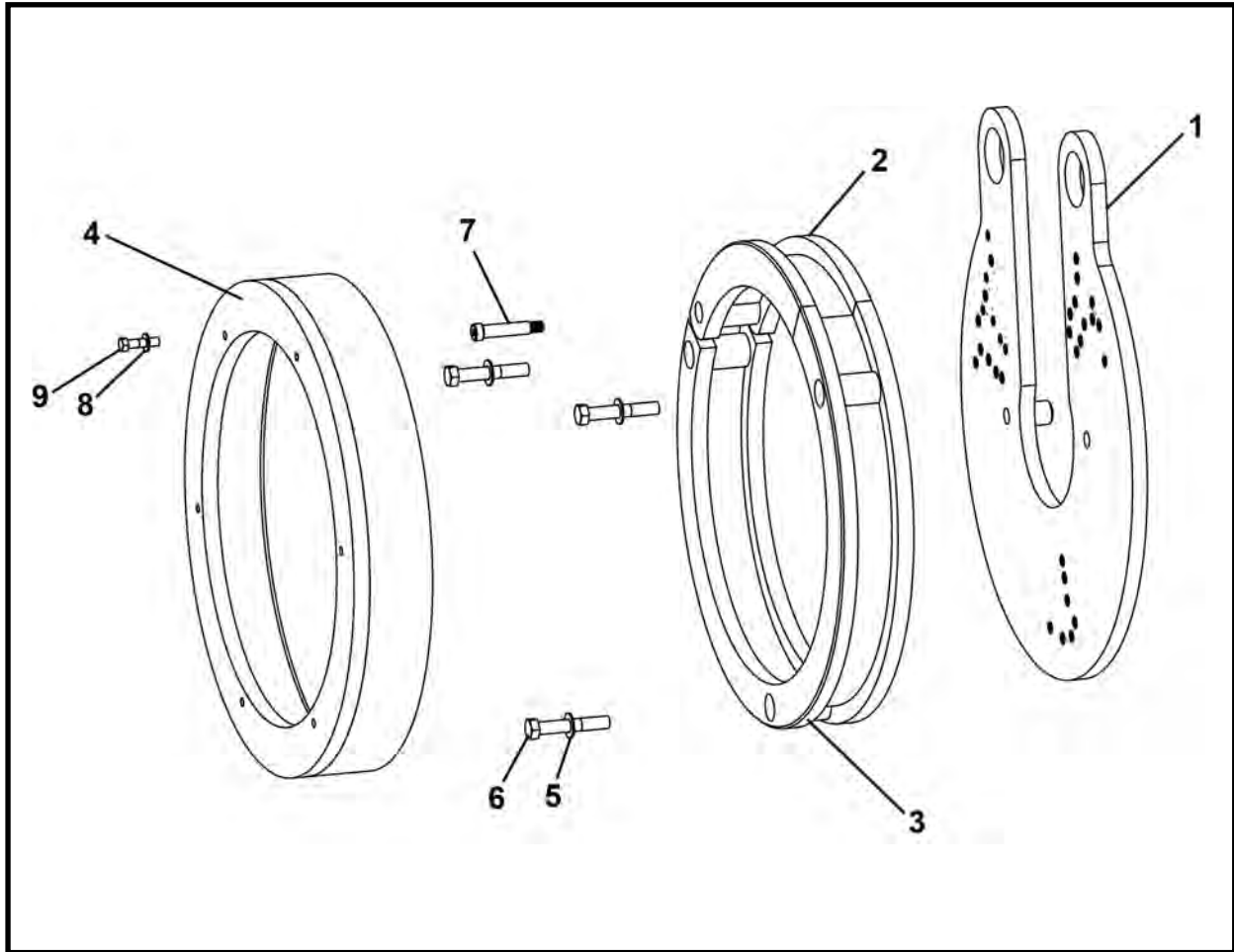
PIPE ADAPTER SET, 24" OD STEEL, FA43743F
PCH



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43743F	PIPE ADAPTER SET, 24" OD STEEL(PCH22.5 Incr to 24OD)
1	1	A45430A	ADAPTER, Thrust
2	1	A43740P	RING, Thrust
3	1	A43733A	ADAPTER, Pipe
4	6	P0001-08-007	BOLT, Hex 1/2 UNC x 1.75
5	6	P0040-008	WASHER, Hardened Flat 1/2
6	3	P0001-12-011	BOLT, 3/4 UNC x 2.75
7	1	P0030S-12-007	BOLT, Shoulder 3/4 x 1.75
8	2	P0001-12-006	BOLT, Hex 3/4 UNC x 1.5
9	2	004124P01	WASHER
10	3	P0040-012	WASHER, Hardened Flat 3/4
11	1	P0001-12-012	BOLT, Hex 3/4 UNC x 3

Incr - Increased

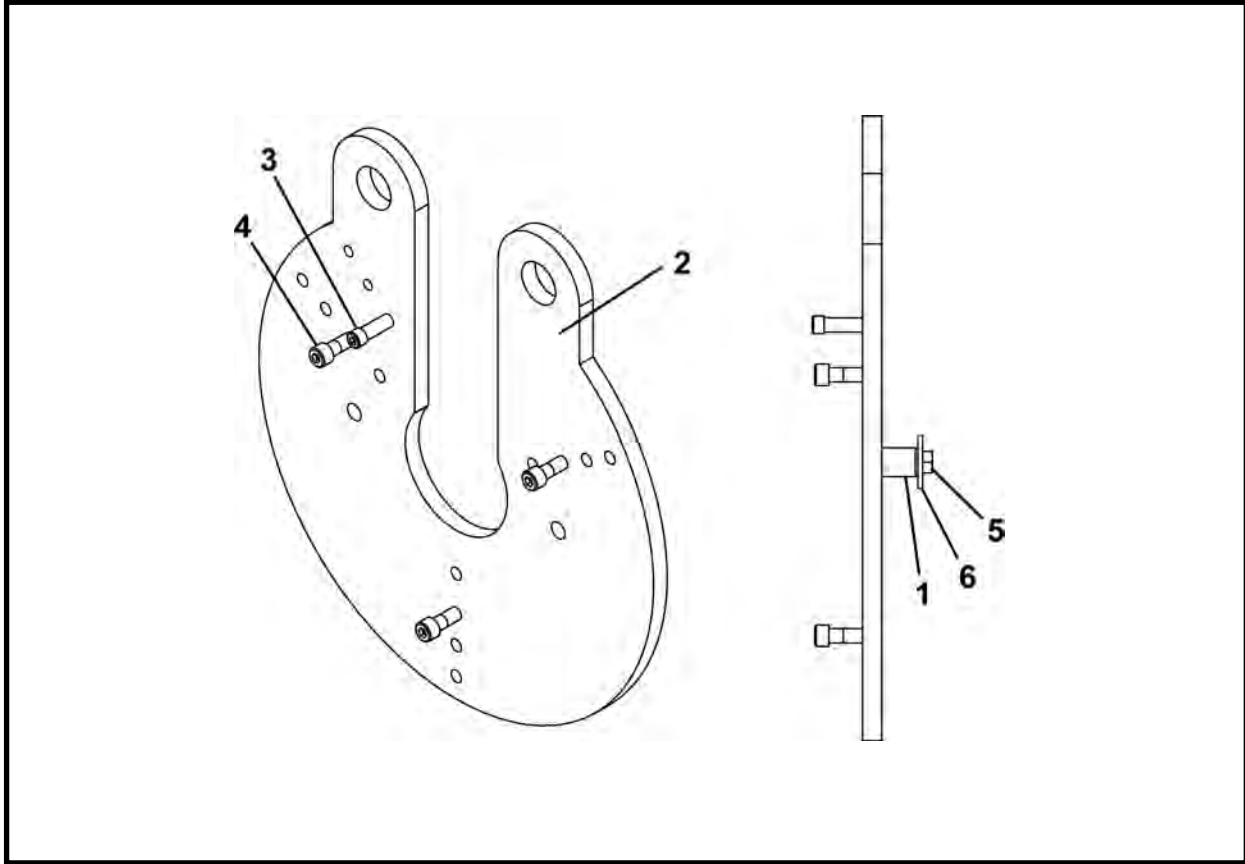
PIPE ADAPTER SET, MIDEA 600MM, FA46678F
PCH



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA46678F	PIPE ADAPTER SET, MIDEA 600MM (PCH28.5 Incr to 29.5)
1	1	A43747A	ASSEMBLY, Thrust Adapter (Includes items 1a - 1c)
2	1	A46687P	RING, Hinge
3	1	A46688P	RING, Fixed
4	1	A46679A	ADAPTER, Pipe
5	3	P0040-012	WASHER, Hardened Flat 3/4
6	3	P0001-12-018	BOLT, 3/4 UNC x 4.5
7	1	P0030S-12-017	BOLT, Socket Head Shoulder 3/4 x 3
8	6	P0040-008	WASHER, Hardened Flat 1/2
9	6	P0001-08-008	BOLT, Hex 1/2 UNC x 2

Incr - Increased

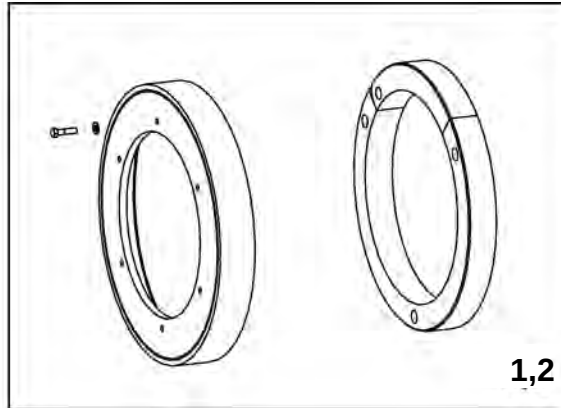
THRUST ADAPTER, WATANI 300-600, FA45786F
16" CASING - PCH



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45786F	THRUST ADAPTER, WATANI 300-600
1	2	A40608P	PIN
2	1	A45797P	PLATE, Adapter
3	1	P0030S-12-008	BOLT, Shoulder 3/4 x 2
4	3	P0031-12-010	SCREW, Cap 3/4 x 2.5
5	2	P0001-12-004	SCREW, Hex 3/4-10 x 1.25
6	2	004124P01	WASHER

NOTE: Use Thrust Adapter, FA45786F with these pipe adapter sets, FA45769F (DN300), FA45790F (DN400), and FA45791F (DN500).

PIPE ADAPTER SET, WATANI
16" CASING - PCH

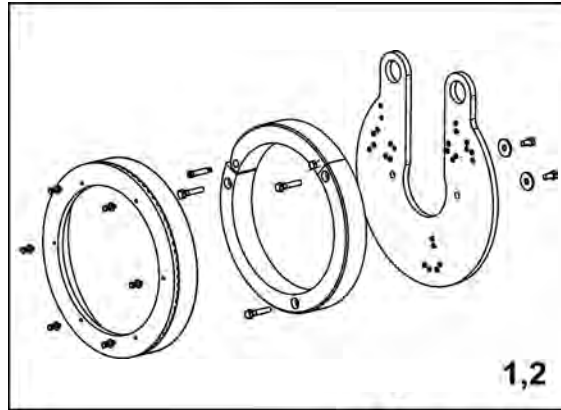


ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA45790F	PIPE ADAPTER SET, WATANI DN400 (PCH22.5)
2	1	FA45791F	PIPE ADAPTER SET, WATANI DN500 (PCH22.5 Incr to 26OD)

NOTE: Must use Thrust Adapter, FA45786F with this pipe adapter set.

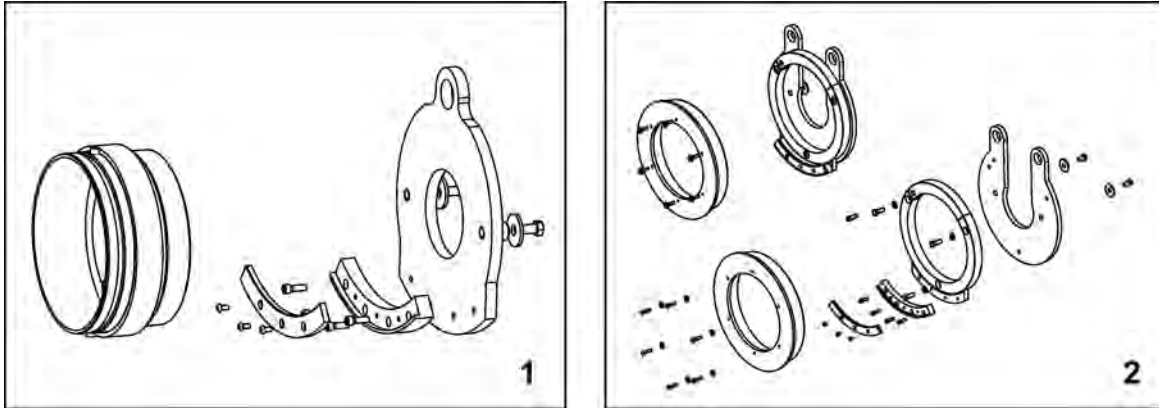
Incr - Increased

PIPE ADAPTER SET, TITAN



ITEM	QTY	PART NO.	DESCRIPTION
1	1	FA43199F	PIPE ADAPTER SET, 22.28 TITAN
2	1	FA43750F	PIPE ADAPTER SET, 30.31 TITAN

PIPE ADAPTER SET, STEINZUG CLAY

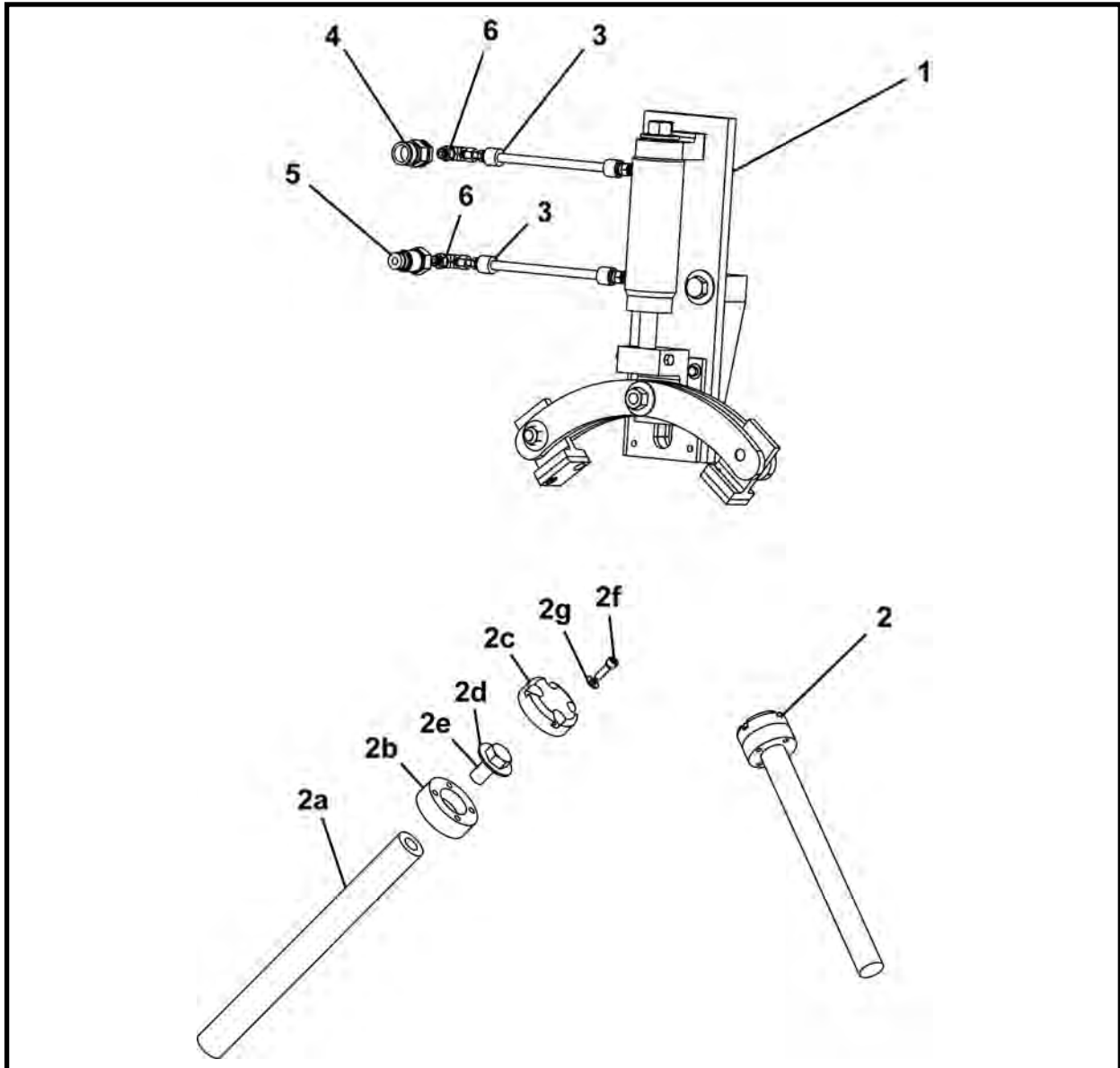


ITEM	QTY	PART NO.	DESCRIPTION
1*	1	FA45338F	PIPE ADAPTER ASSEMBLY, Steinzug Clay DN300
2**	1	FA45337F	PIPE ADAPTER ASSEMBLY, Steinzug Clay DN500

* 16" Casings / 16" Reaming Assembly

** PCH 22.5 Increased to 26 OD

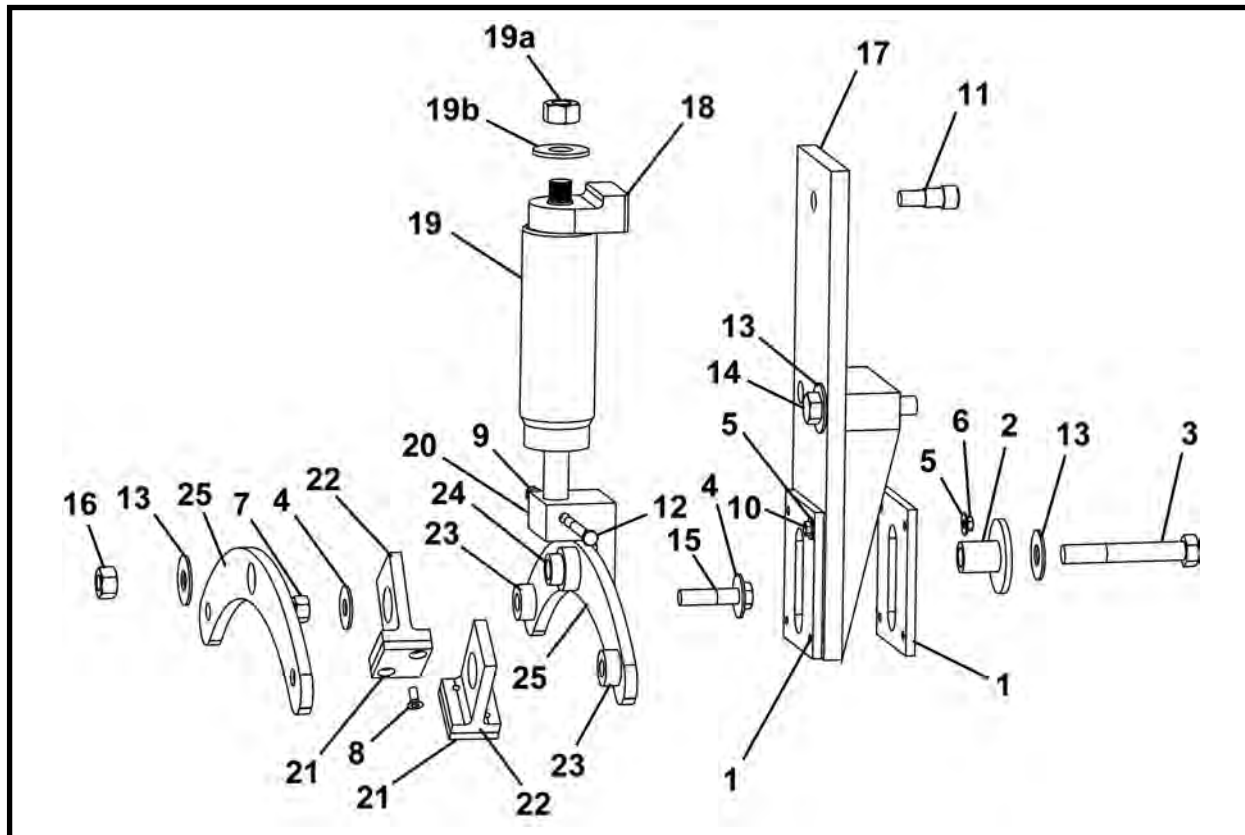
PIPE RESTRAINT ASSEMBLY, FA44681F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA44681F	PIPE RESTRAINT ASSEMBLY
1*	1	A44683A	ASSEMBLY, Pipe Restraint Clamp
2	2	A44682A	ASSEMBLY, Pipe Support Post (Includes items 2a - 2g)
2a	2	A44684P	POST, Support
2b	2	A44685P	PLATE, Support
2c	2	A44686P	PAD, Wear
2d	2	P0040-012	WASHER, Hardened Flat 3/4
2e	2	P0001-12-006	BOLT, 3/4 UNC x 1.5
2f	8	P0031-05-004	SCREW, Socket Head Cap 5/16 UNC x 1
2g	8	P0040-005	WASHER, Hardened Flat 5/16
3	2	A10348A-090	ASSEMBLY, 1/4 x 90
4	1	P0100-047	COUPLER, Female
5	1	P0100-046	COUPLER, Male
6	2	P0300-311	FITTING, 04MFFOR-06MB90

* Refer to this section for parts information.

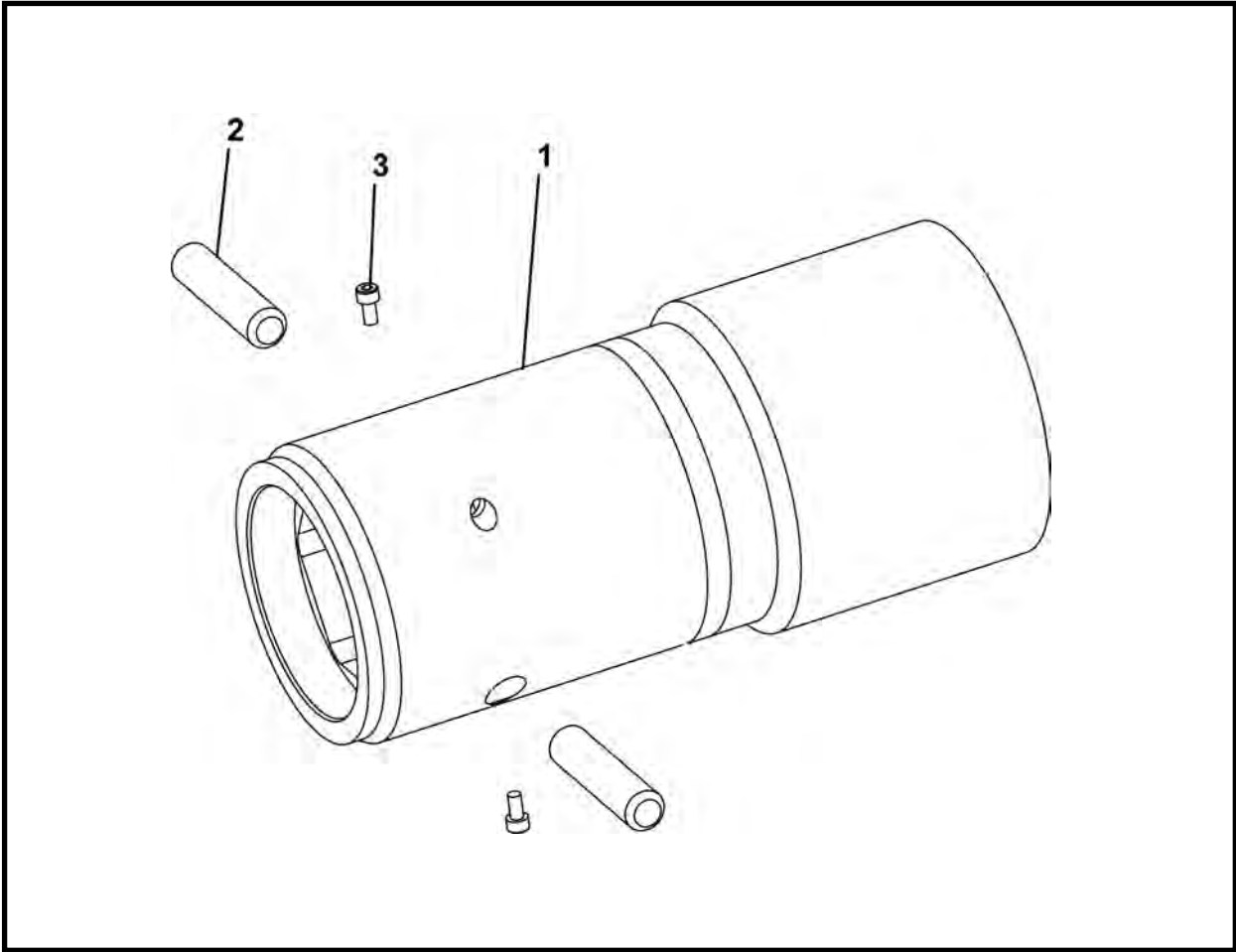
PIPE RESTRAINT CLAMP ASSEMBLY, A44683A



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A44683A	PIPE RESTRAINT CLAMP ASSEMBLY
1	2	A44639P	PAD, Wear
2	1	A44698P	SPACER, Slide
3	1	P0001-12-020	BOLT, 3/4 UNC x 5
4	4	P0040-010	WASHER, Hardened Flat 5/8
5	8	P0040-005	WASHER, Hardened Flat 5/16
6	4	P0003-05-000	NUT, 5/16
7	2	P0003-10-000	NUT, 5/8
8	4	P0030-05-003	SCREW, Socket Head Cap 5/16 UNC x .75
9	1	P0003-06-000	NUT, 3/8
10	4	P0001-05-009	BOLT, 5/16 UNC x 2.25
11	1	P0030S-12-003	BOLT, Socket Head Shoulder 3/4 x .75
12	1	P0001-06-014	BOLT, 3/8 UNC x 3.5
13	4	P0040-012	WASHER, Hardened Flat 3/4
14	2	P0001-12-016	BOLT, 3/4 UNC x 4
15	2	P0001-10-010	BOLT, 5/8 UNC x 2.5
16	1	P0003-12-000	NUT, 3/4
17	1	A44694A	MOUNT, Restraint Clamp
18	1	A44699P	MOUNT, Cylinder
19*	1	014603A00	CYLINDER, Dirt Wing (Includes items 19a and 19b)
19a	1	P0004-14-000	NUT, UNF 7/8
19b	1	P0040-014	WASHER, Hardened Flat 7/8
20	1	A44692P	MOUNT, Arm
21	2	A44689P	PAD, Clamp
22	2	A44688P	FOOT, Clamp
23	2	A44690P	BUSHING
24	1	A44691P	SPACER, Arm
25	2	A44687P	ARM, Clamp

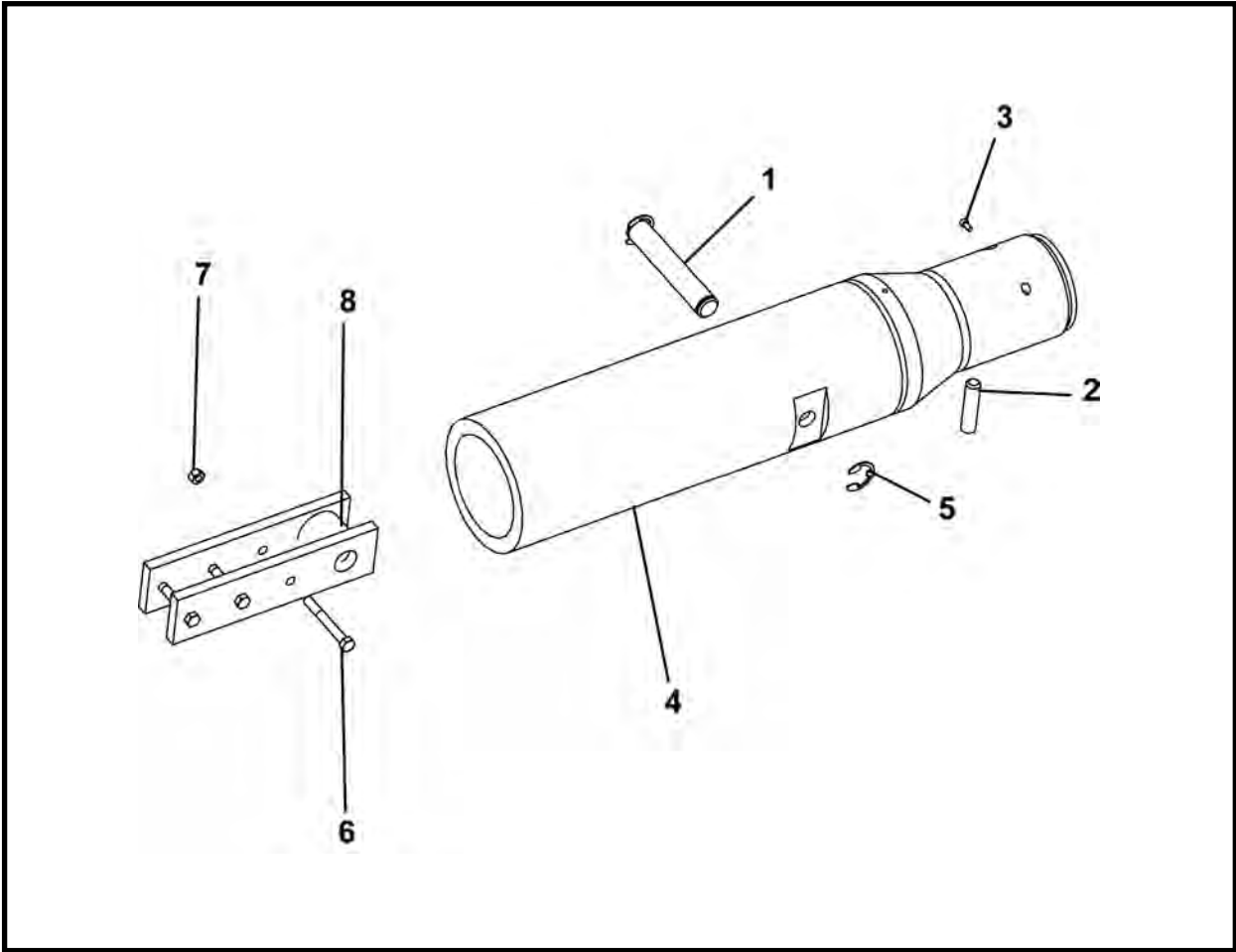
* For parts information, refer to section 10, Cylinders

PIPE PULL TOOL, 4", FA44855F



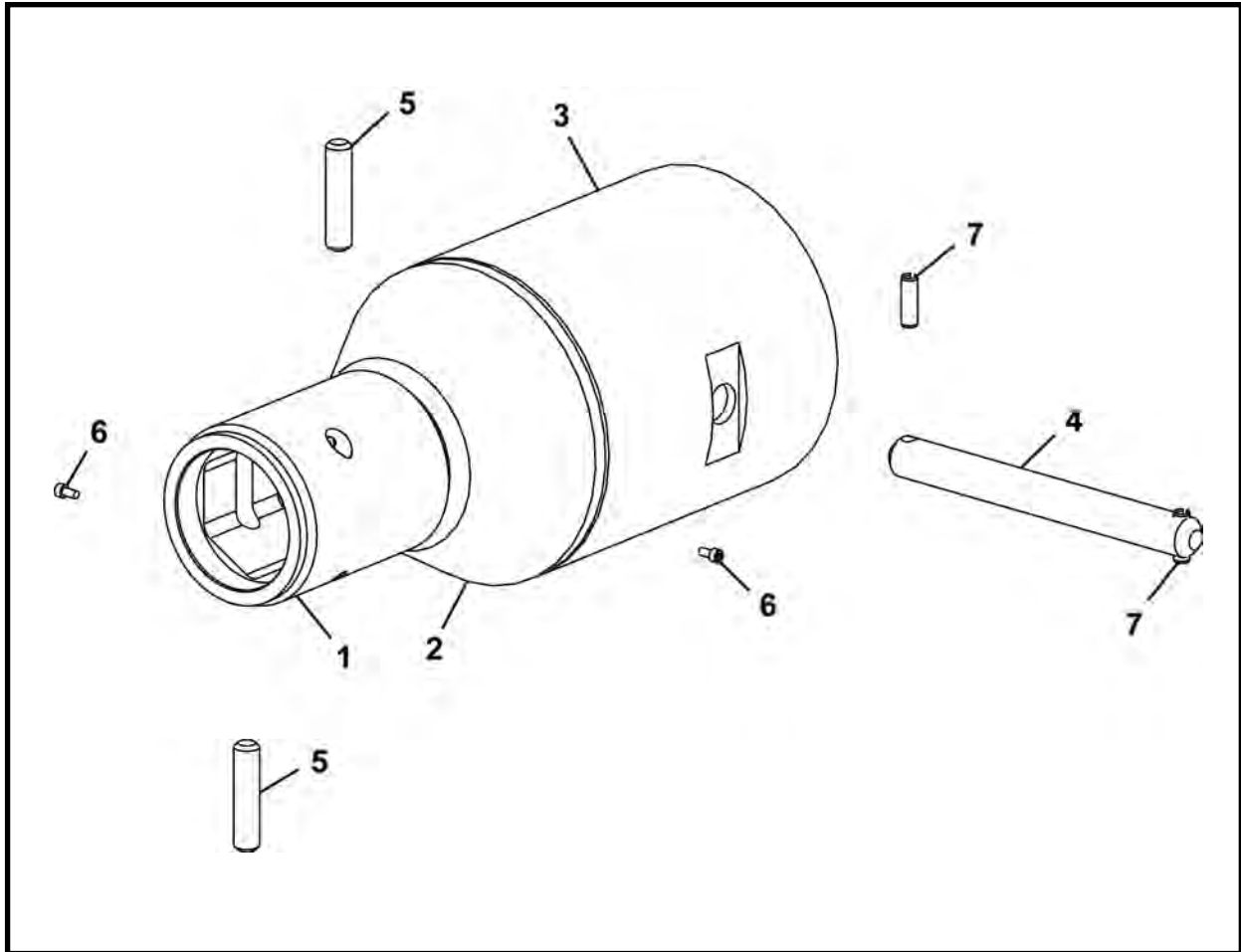
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA44855F	PIPE PULL TOOL, 4"
1	1	A44857A	WELDMENT, Pullback Tool
2	2	A40582P	CONNECTION PIN
3	2	P0031-1024-001.5	SCREW, Socket Head 10-24 x .38

PVC PULL TOOL, 4", FA44782F



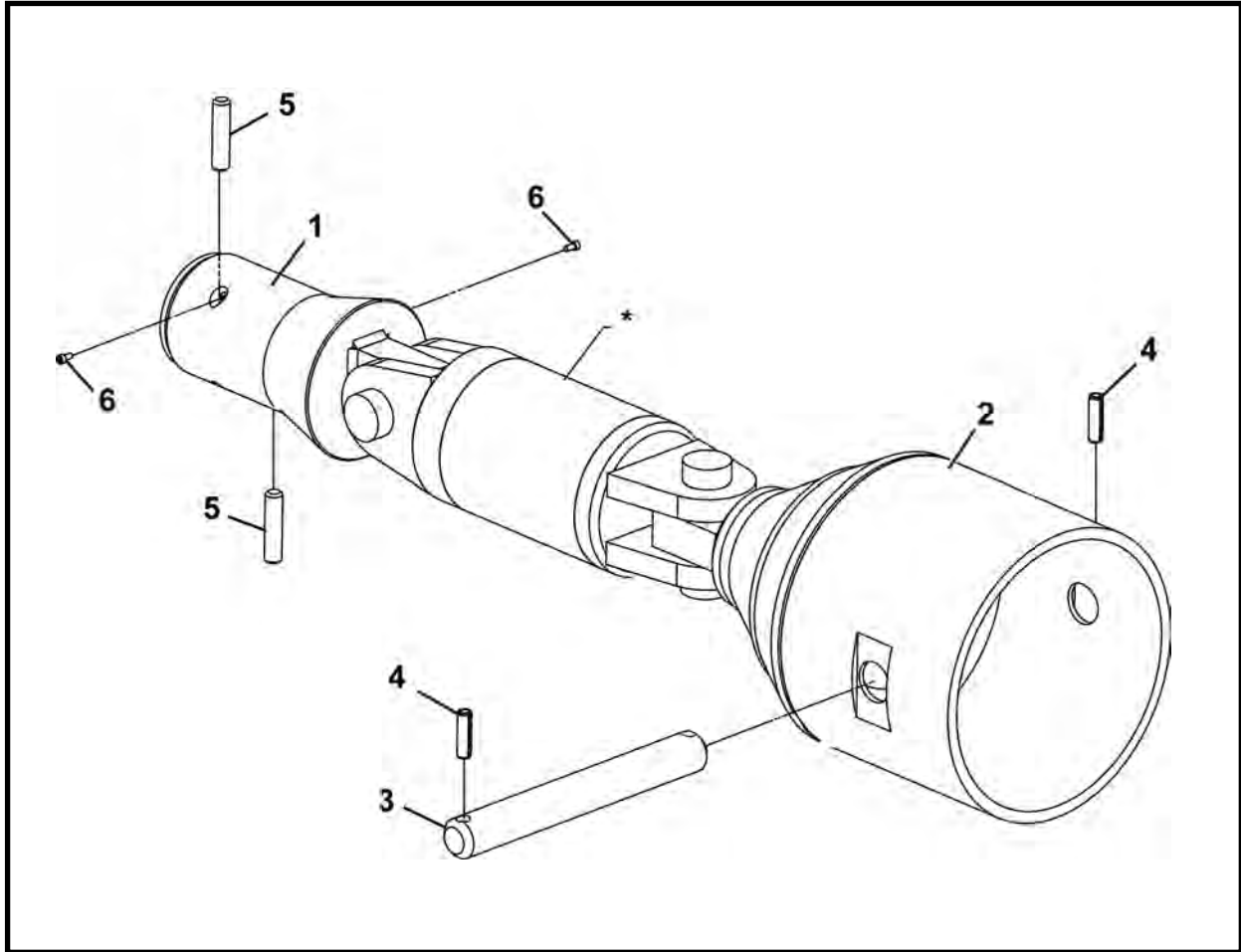
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA44782F	PVC PULL TOOL, 4"
1	1	A44785P	PIN, 4" PVC Pull Tool
2	2	A40582P	CONNECTION PIN
3	2	P0031-1024-001.5	SCREW, Socket Head 10-24 x .38
4	1	A44786A	WELDMENT, Pull Tube
5	2	P0044-037	CLIP
6	3	P0001-06-012	BOLT, 3/8 UNC x 8
7	3	P0003-06-000	NUT, 3/8
8	1	A44810A	WELDMENT, Pull Bar Tool

PVC PULL TOOL, 6", A42797A



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42797A	PVC PULL TOOL, 6"
1	1	A40577P	COUPLER, Female
2	1	A42798P	PLATE, Front
3	1	A42799P	TUBE
4	1	A42708P	PIN, Pull Tool
5	2	A40582P	PIN, Connector
6	2	P0031-1024-001.5	SCREW, Socket Head 10-24 x .38
7	2	P0049-158	PIN, Roll

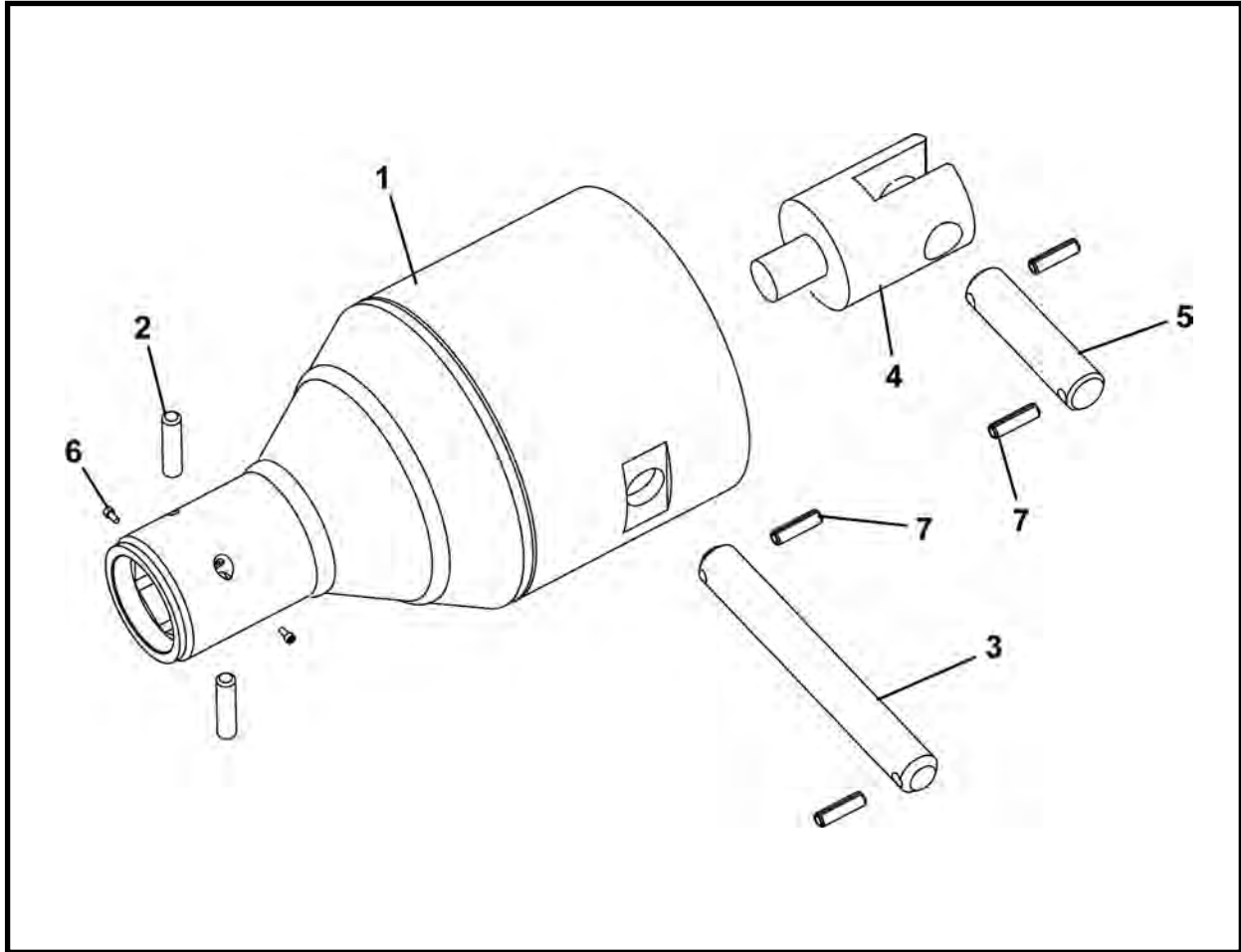
PVC PULL TOOL, 11", FA42710F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42710F	PVC PULL TOOL, 11"
1	1	A42718A	ADAPTER, Pilot Tube Swivel
2	1	A42715A	COUPLER, Upsizing 11"
3	1	A42714P	PIN, 11" PVC Pull Tool
4	2	P0049-174	SPRING PIN
5	2	A40582P	CONNECTION PIN
6	2	P0031-1024-001.5	SCREW, Socket Head 10-24 x .38

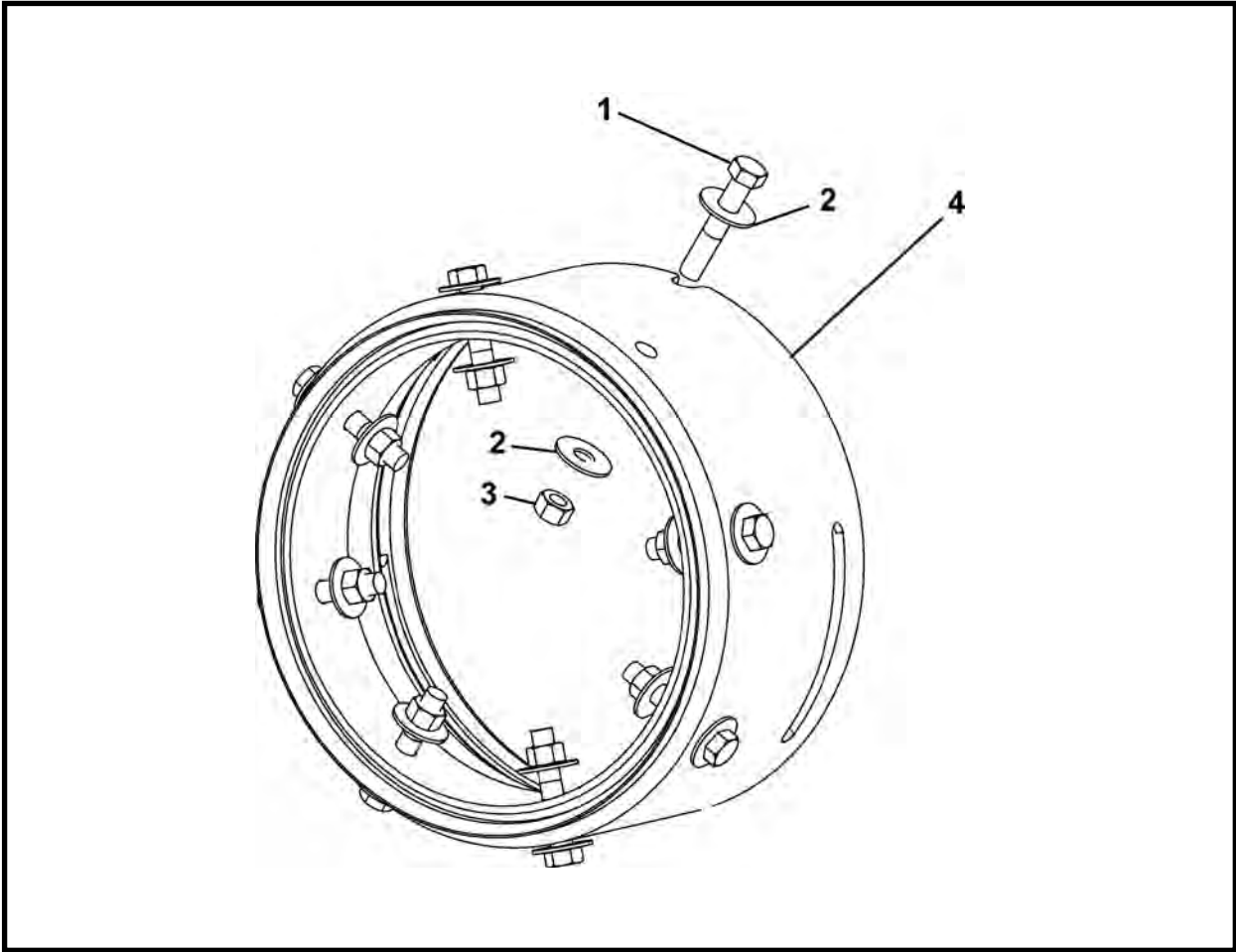
* Supplied by customer

PULL TOOL W/CABLE, 11", FA42722F



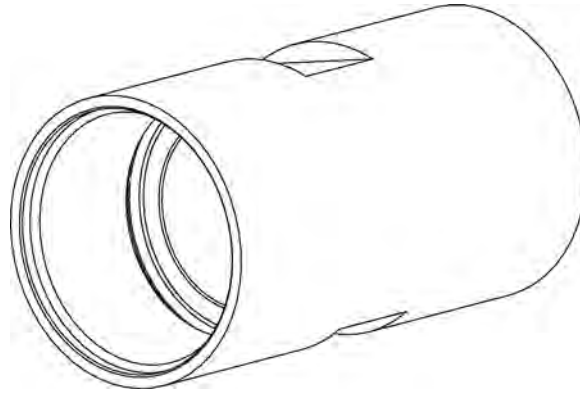
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42722F	PULL TOOL W/CABLE, 11"
1	1	A42723A	PULL BODY
2	2	A40582P	CONNECTION PIN
3	1	A42714P	PIN, 11" PVC Pull Tool
4	1	A42727P	CLEVIS, Cable Attach
5	1	A42728P	PIN, Pull Tool
6	2	P0031-1024-001.5	SCREW, Socket Head 10-24 x .38
7	4	P0049-174	SPRING PIN

PULL TOOL, 12" HDPE, FA44819F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA44819F	PULL TOOL, 12" HDPE
1	8	P0001-10-014	BOLT, Hex 5/8 UNC x 3.5
2	16	P0040-010	WASHER, 5/8 Hardened Flat
3	8	P0003-10-000	NUT, 5/8
4	1	A44818A	ASSEMBLY, Pipe Adapter 12" HPDE

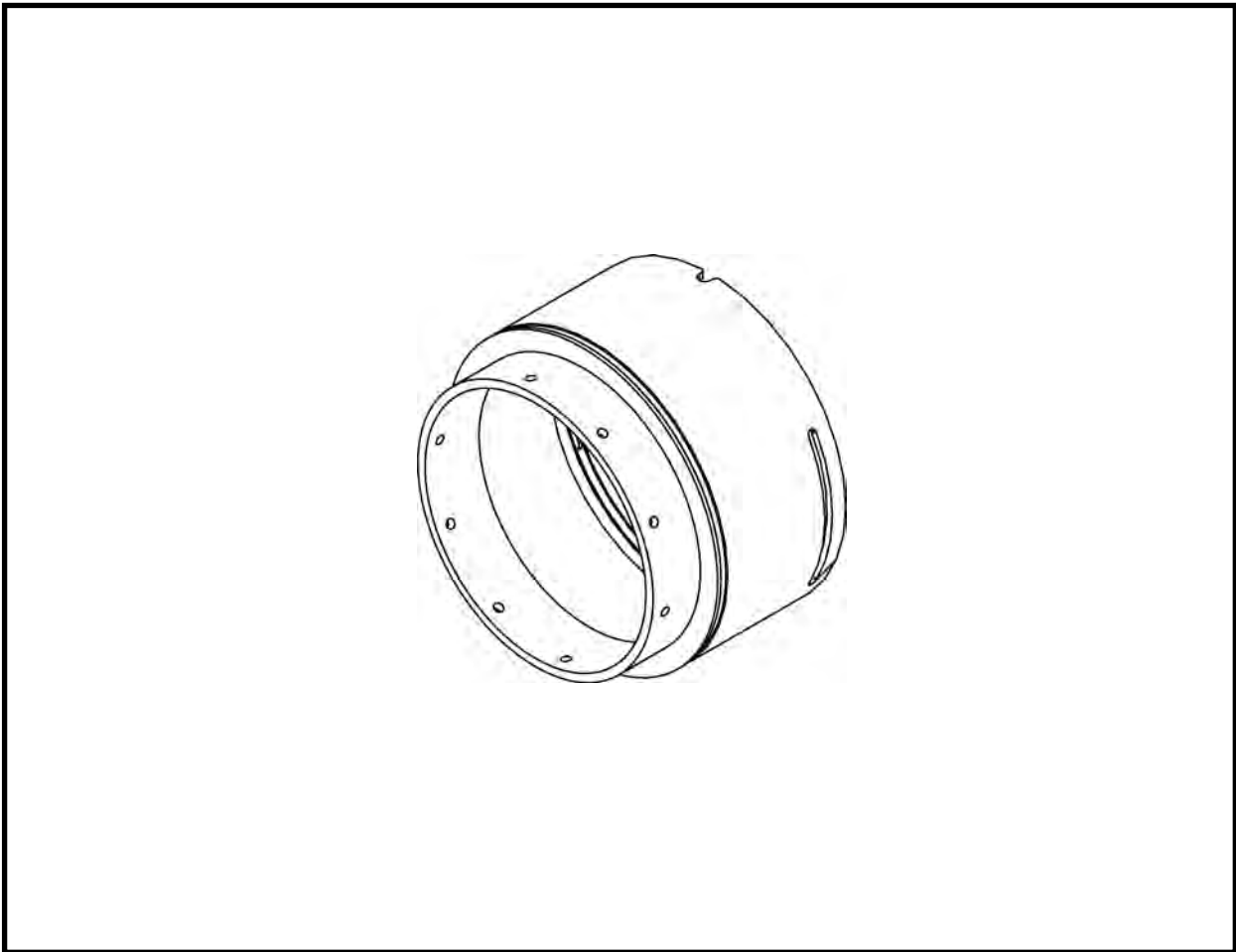
FEMALE PULL ASSIST CONNECTOR, A42373P



ITEM	QTY	PART NO.	DESCRIPTION
0	1	A42373P	FEMALE PULL ASSIST CONNECTOR

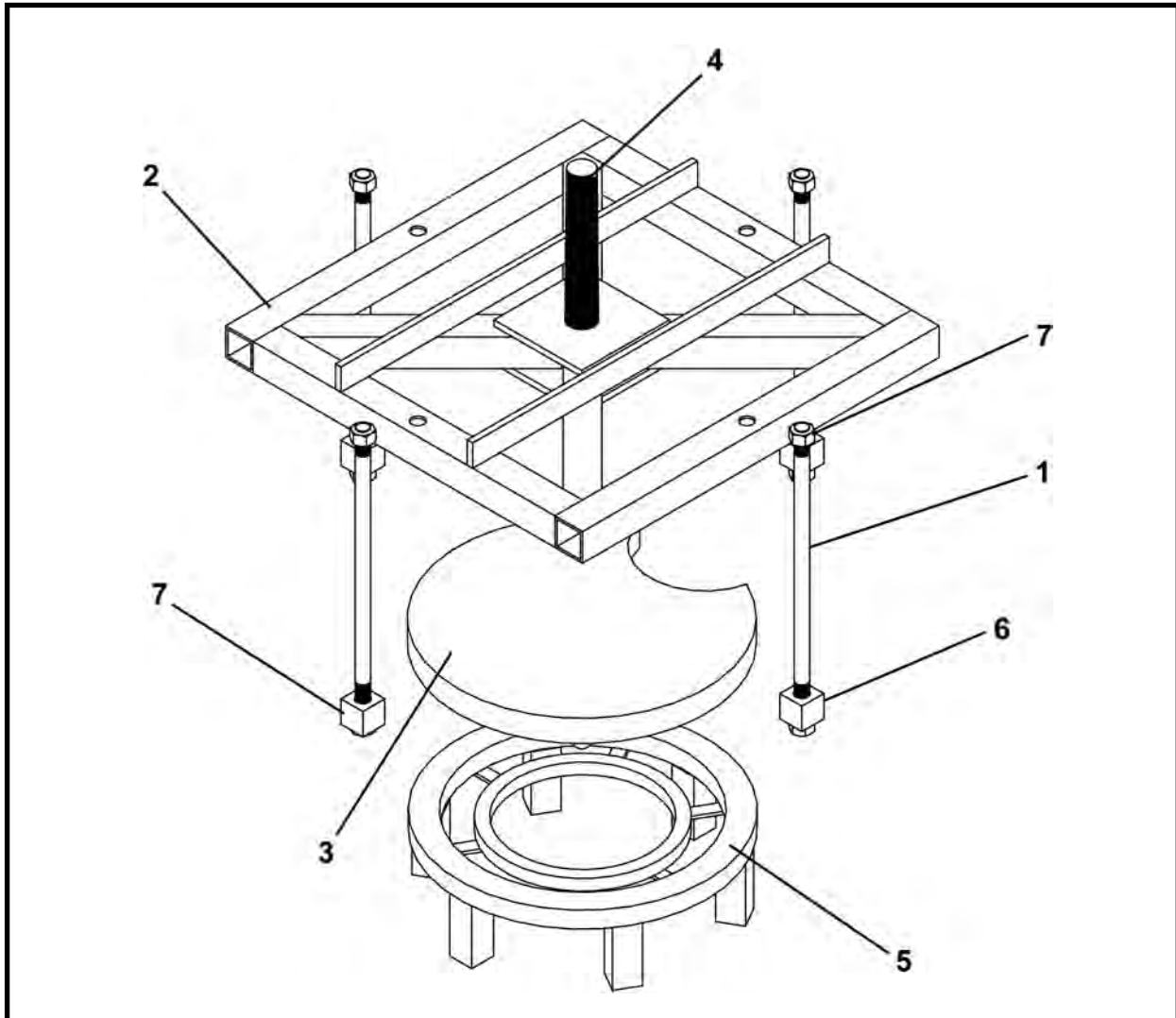
NOTE: This connector is used to connect two male pilot tube ends.

PULL BACK ADAPTER, 17.5 - 20" CASING, FA44508F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA44508F	PULL BACK ADAPTER, 17.5 - 20" CASING

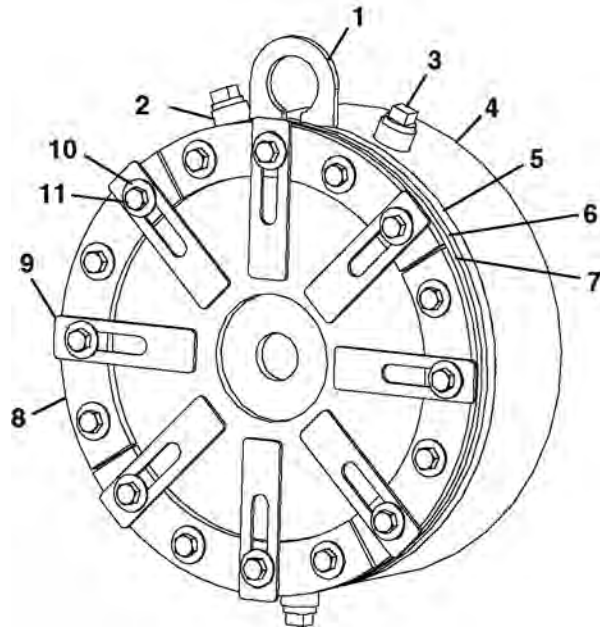
SKIN PULLER ASSEMBLY, 28", FA43374F
POWERED CUTTER HEAD



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA43374F	SKIN PULLER ASSEMBLY, 28"
1	4	A43372P	ROD, Threaded
2	1	A43363A	SKIN PULLER
3	1	A43371A	JACK STAND
4	30 LI	P0023-200A	ROD, Threaded
5	1	A43368A	STAND
6	4	A43373P	ROD SKIN TABS
7	8	P0003-16-000	NUT, 1

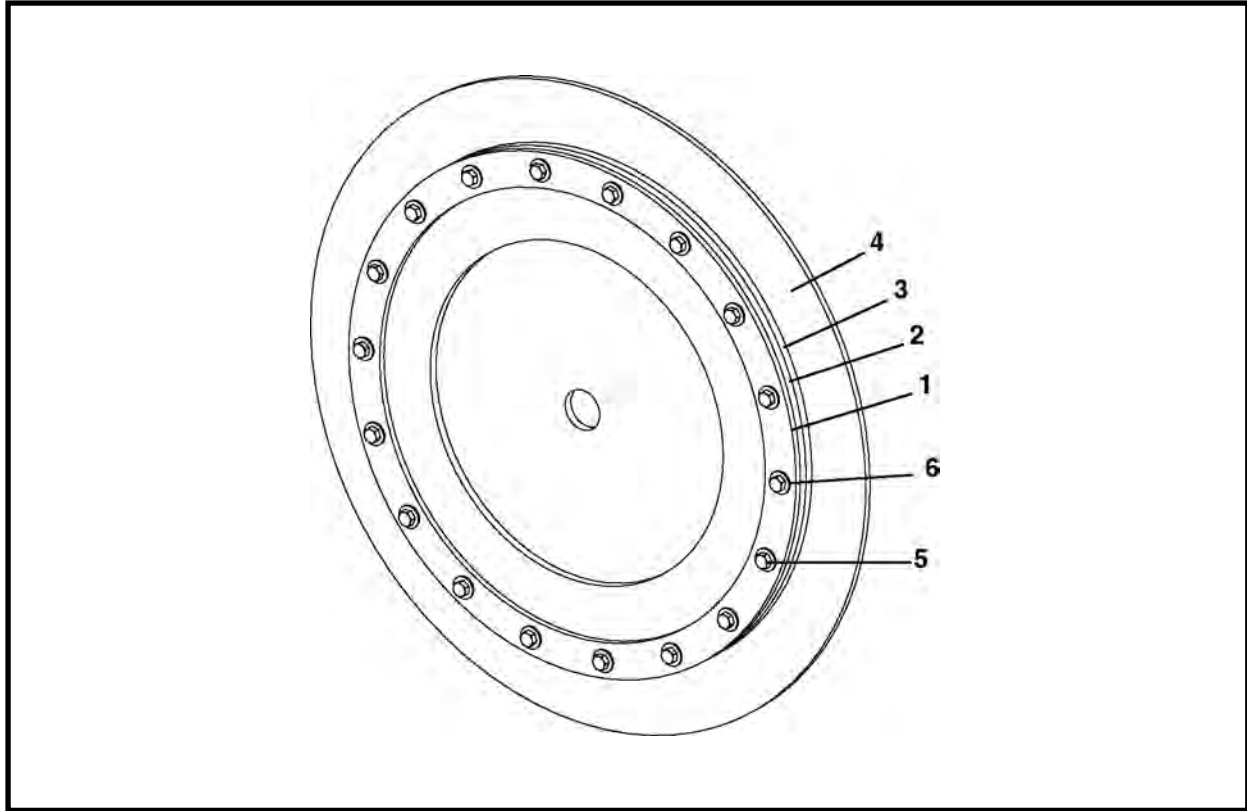
LI - Linear Inch

DRILLING SEAL - 11" & 12" OD



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	FA40314F	SEAL, Drilling 11" OD Thrust Casing
0.2	1	FA40294F	SEAL, Drilling 12" OD Thrust Casing
1	1	NSS	EYE, Lifting
2	3	NSS	COUPLER, Pipe
3	3	P0416-005	PLUG, Pipe
4	1	NSS	CASING
5	1	NSS	RING, Mounting
6	1	A40623P	SEAL, Inner (Use With Pilot Tubes)
7.1	1	A40624P	SEAL, Outer 11" OD Thrust Casing
7.2	1	A40683P	SEAL, Outer 12" OD Thrust Casing
8	4	A40625P	PLATE, Seal Retaining
9	8	A40626P	PLATE, Seal Supporting
10	16	P0040-010	WASHER, Flat 5/8
11	16	P0001-10-010	BOLT, 5/8-11 UNC x 2.5

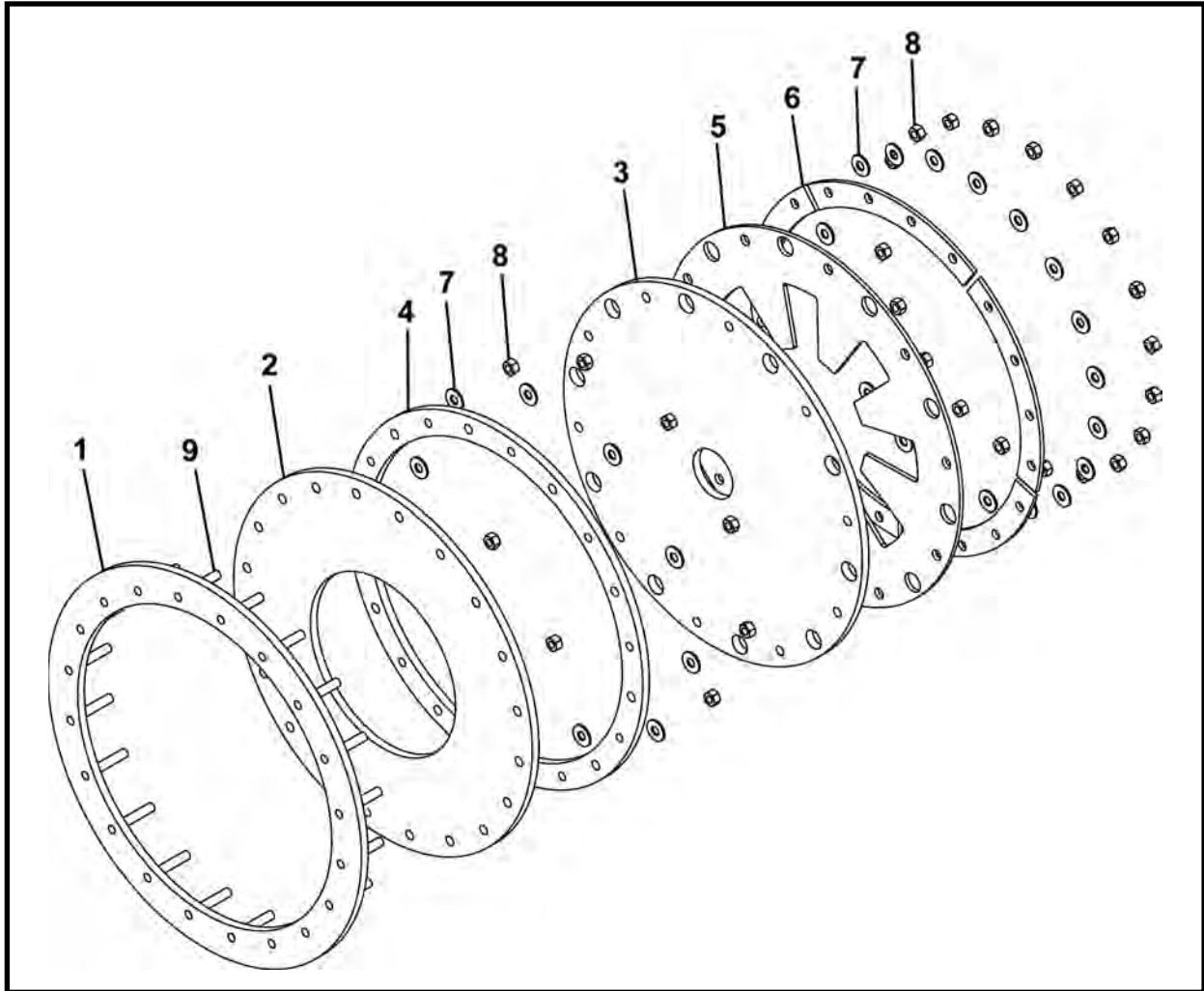
DRILLING SEAL ASSEMBLY - 18" VCP, F42214F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42214F	DRILLING SEAL ASSEMBLY - 18" VCP
1	1	A42216P	RING, STEEL SUPPORT
2	1	A42217P	SEAL, Drilling, Rubber-18" VCP
3	1	A42218P	SEAL, Drilling, Rubber-Pilot Tube
4	1	A42219P	PLATE, Drilling Seal Base
5*	18	P0001-08-006	BOLT, 1/2-13 x 1.5
6	18	P0040-008	WASHER, Flat 1/2

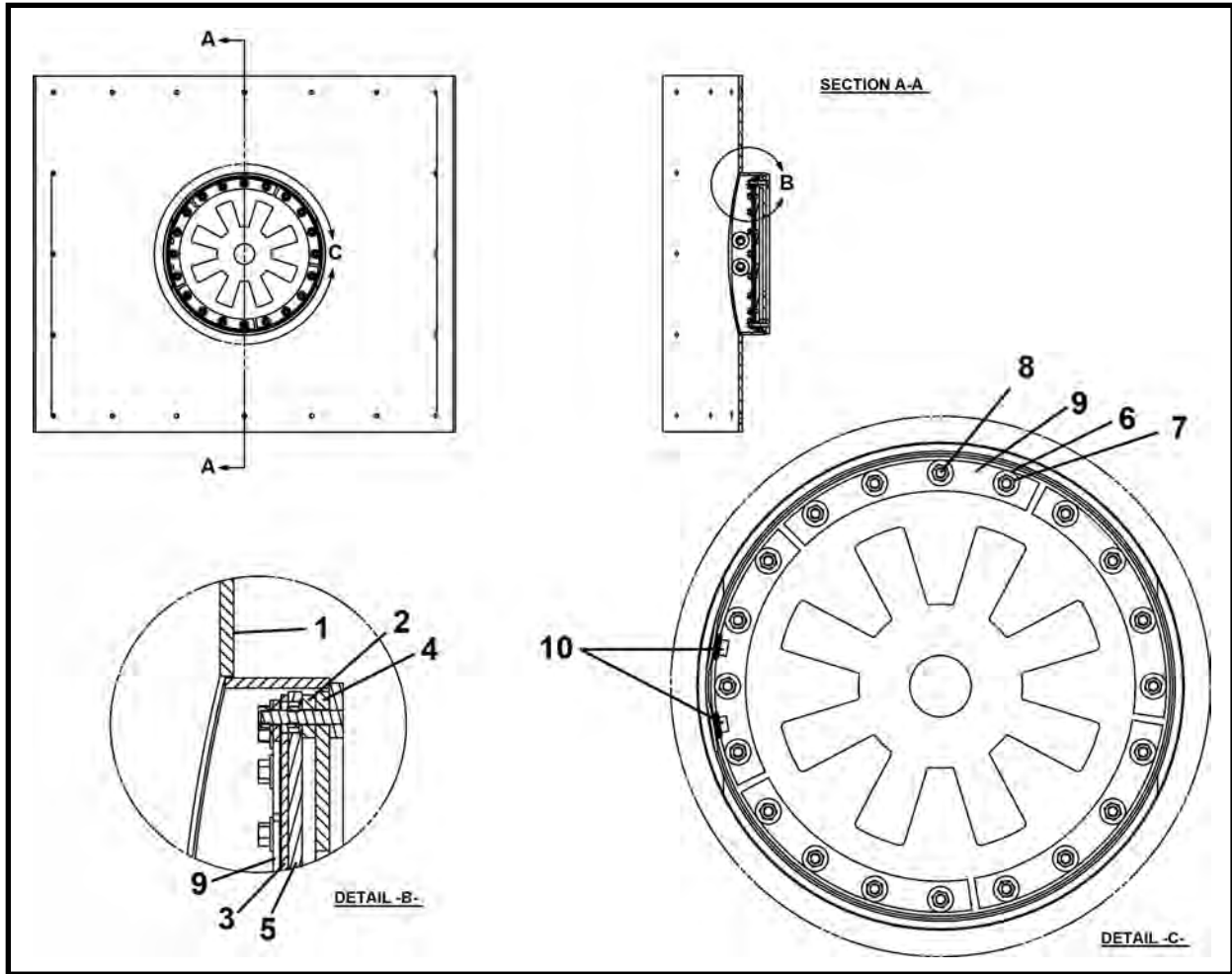
* Use anti-seize on all bolts.

16" CASINGS PIT SEAL ASSEMBLY, FA45444F



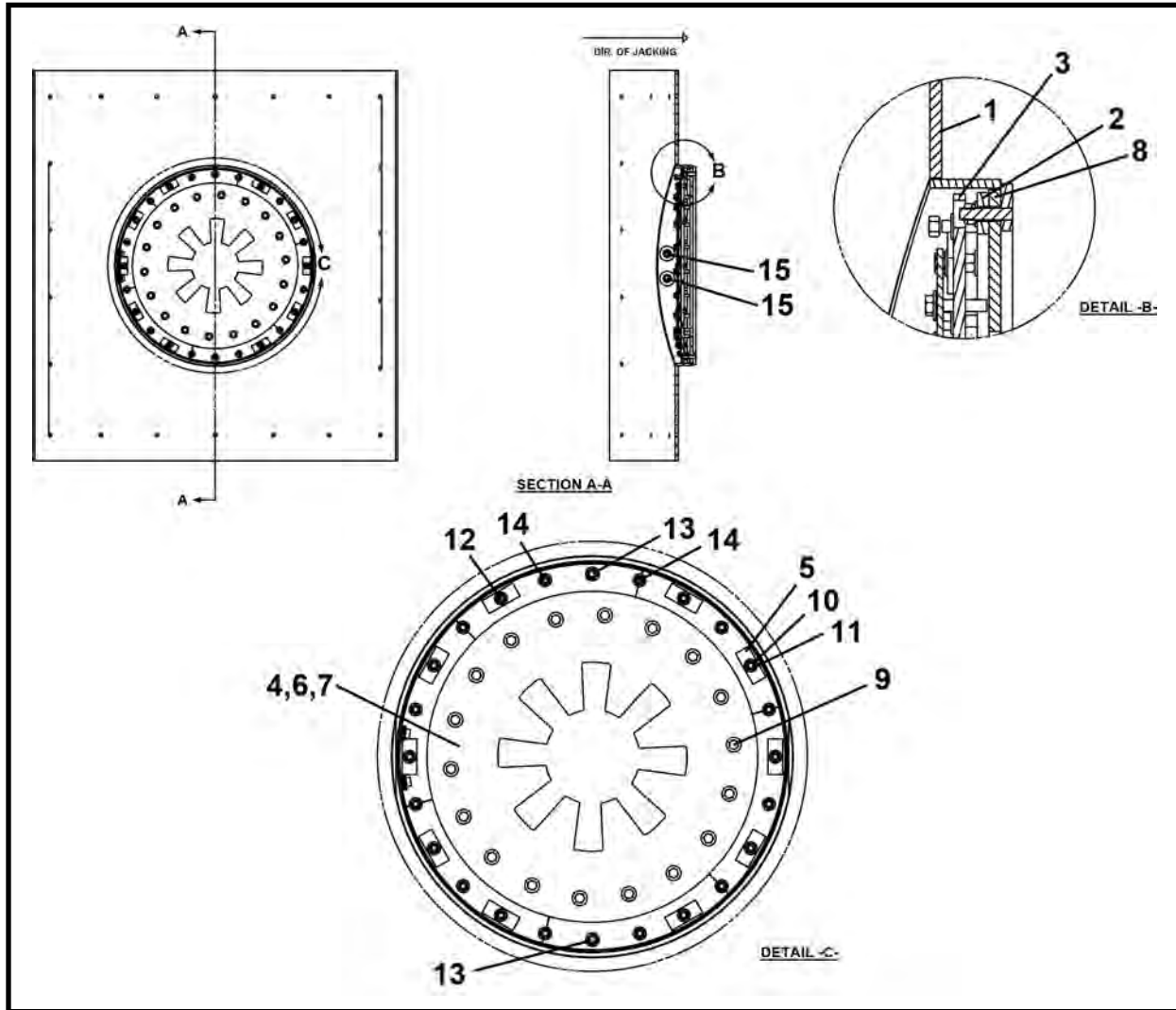
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45444F	PIT SEAL ASSEMBLY, 16" Casings
1	1	A45443P	PLATE, Threaded Ring
2	1	A45312P	RUBBER, Pit Seal
3	1	A45313P	RUBBER, Pilot Tube Seal
4	1	A45347P	RETAINER, Pipe Seal Plate
5	1	A45346P	SUPPORT, Seal Plate
6	5	A45348P	PLATE, Seal Support Retainer
7	30	P0040-008	WASHER, Hardened Flat 1/2
8	30	P0003-08-000	NUT, 1/2
9	20	P0025-005A	STUD

DN300 PIPE PIT SEAL ASSEMBLY, FA45196F



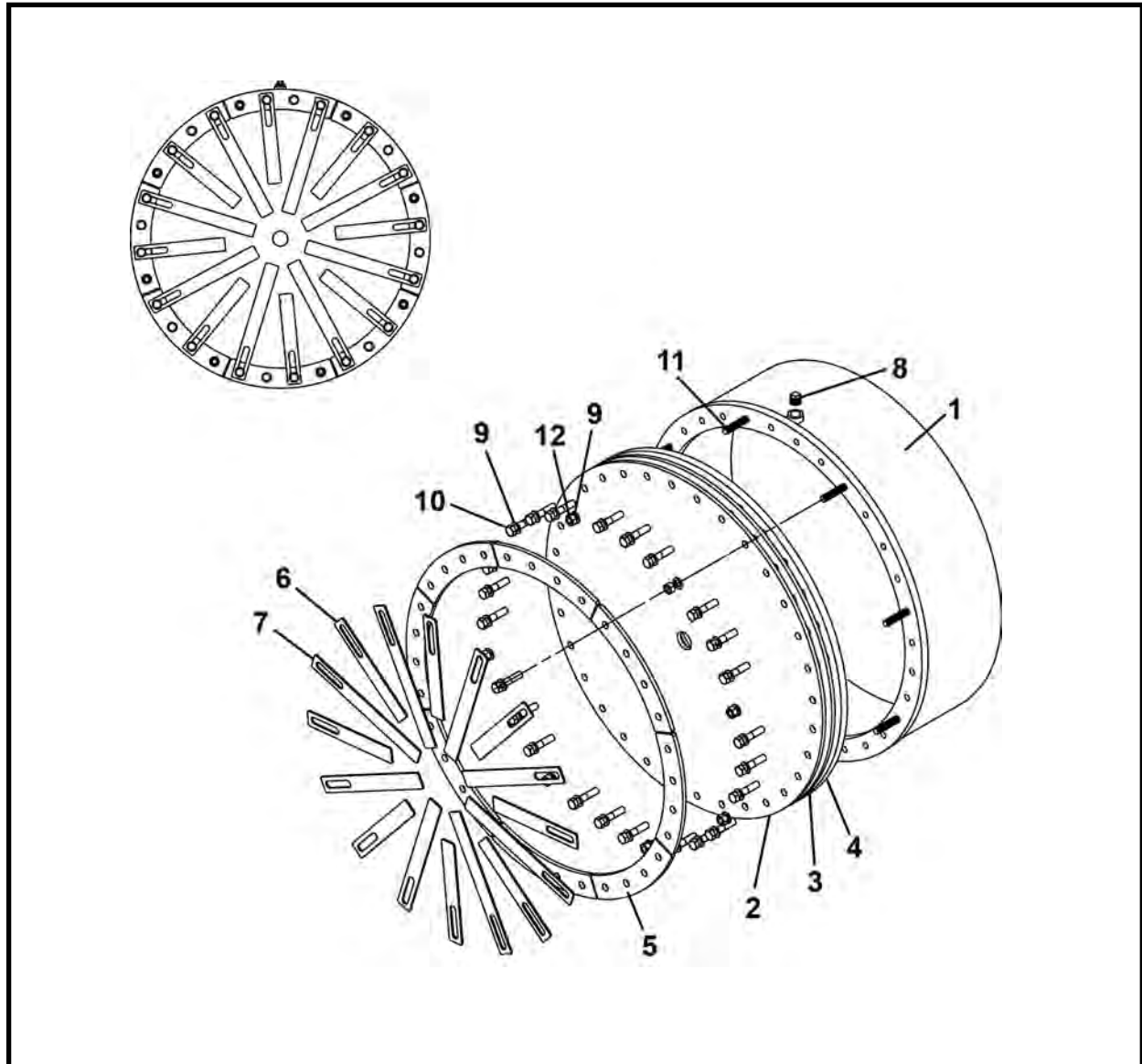
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45196F	PIT SEAL ASSEMBLY - DN300 PIPE
1	1	A45345A	WELDMENT, DN300 Pit Seal
2	1	A45347P	PLATE, Pipe Seal Retainer
3	1	A45346P	PLATE, Seal Support
4	1	A45312P	RUBBER, Pit Seal Pipe
5	1	A45313P	RUBBER, Pilot Tube Seal
6	30	P0040-008	WASHER, Hardened Flat 1/2
7	30	P0003-08-000	NUT, Hex 1/2
8	20	P0025-005A	STUD
9	5	A45348P	PLATE, Seal Support Retainer
10	2	P0416-005	PLUG, Square Head 1

DN500 PIPE PIT SEAL ASSEMBLY, FA45197F



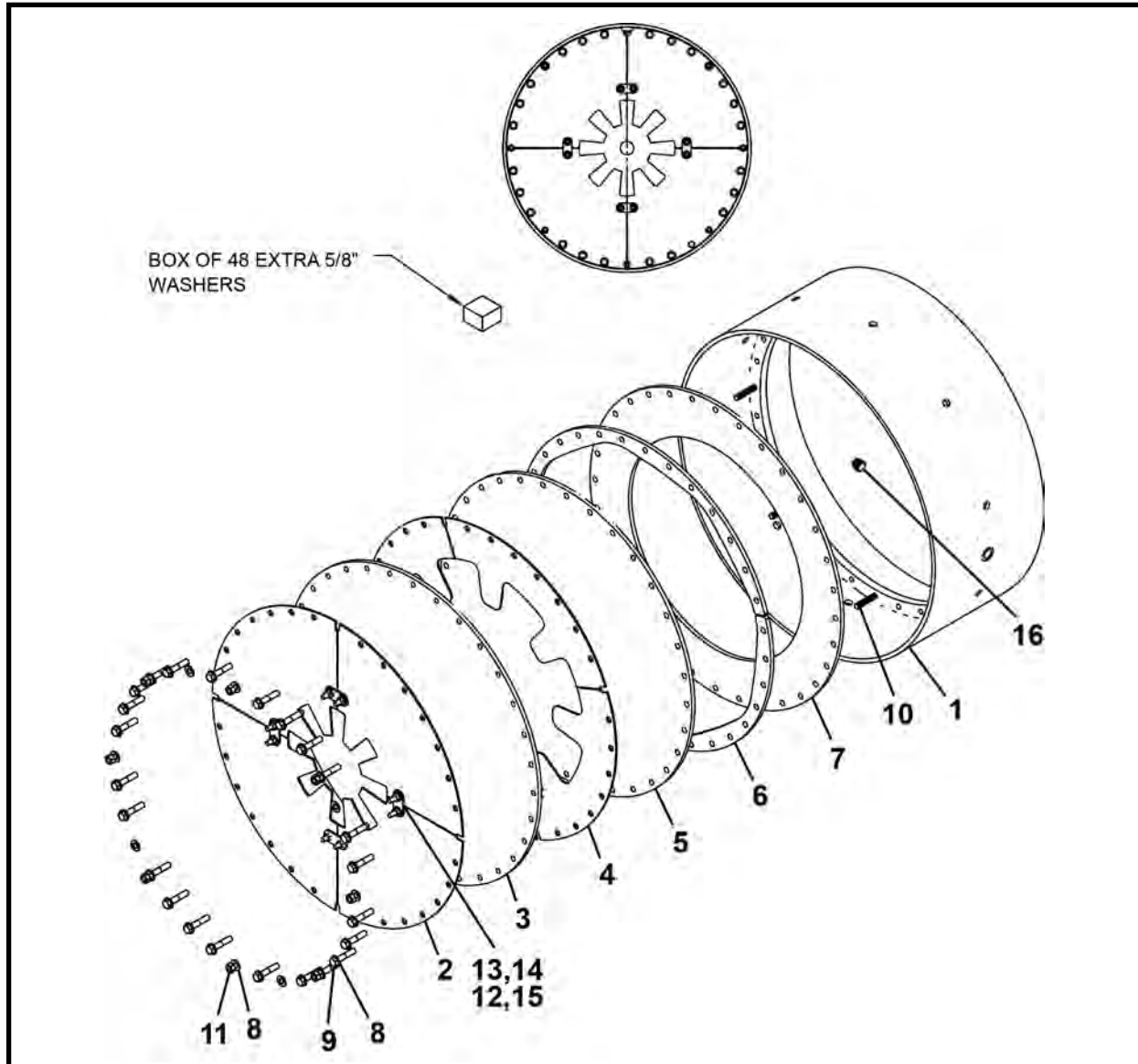
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA45197F	PIT SEAL ASSEMBLY - DN500 PIPE
1	1	A45319A	WELDMENT, Pit Seal Body 500 mm Pipe
2	1	A45317P	PLATE, Pipe Seal Retainer
3	1	A45311P	PLATE, Casing Seal Support
4	1	A45310P	PLATE, Seal Support
5	10	A45318P	PLATE, Pit Seal Retainer
6	1	A45314P	RUBBER, Pilot Tube Seal
7	1	A45315P	RUBBER, Pit Seal
8	1	A45316P	RUBBER, Pit Seal Pipe
9	18	P0001-08-009	BOLT, 1/2 UNC x 2.25
10	54	P0040-008	WASHER, Flat Hardened 1/2
11	36	P0003-08-000	NUT, Hex 1/2
12	10	P0025-005B	STUD
13	2	P0025-005	STUD
14	12	P0025-005A	STUD
15	2	P0416-005	PLUG, Square Head 1

PIT SEAL 32 OD ASSEMBLY, FA48096F



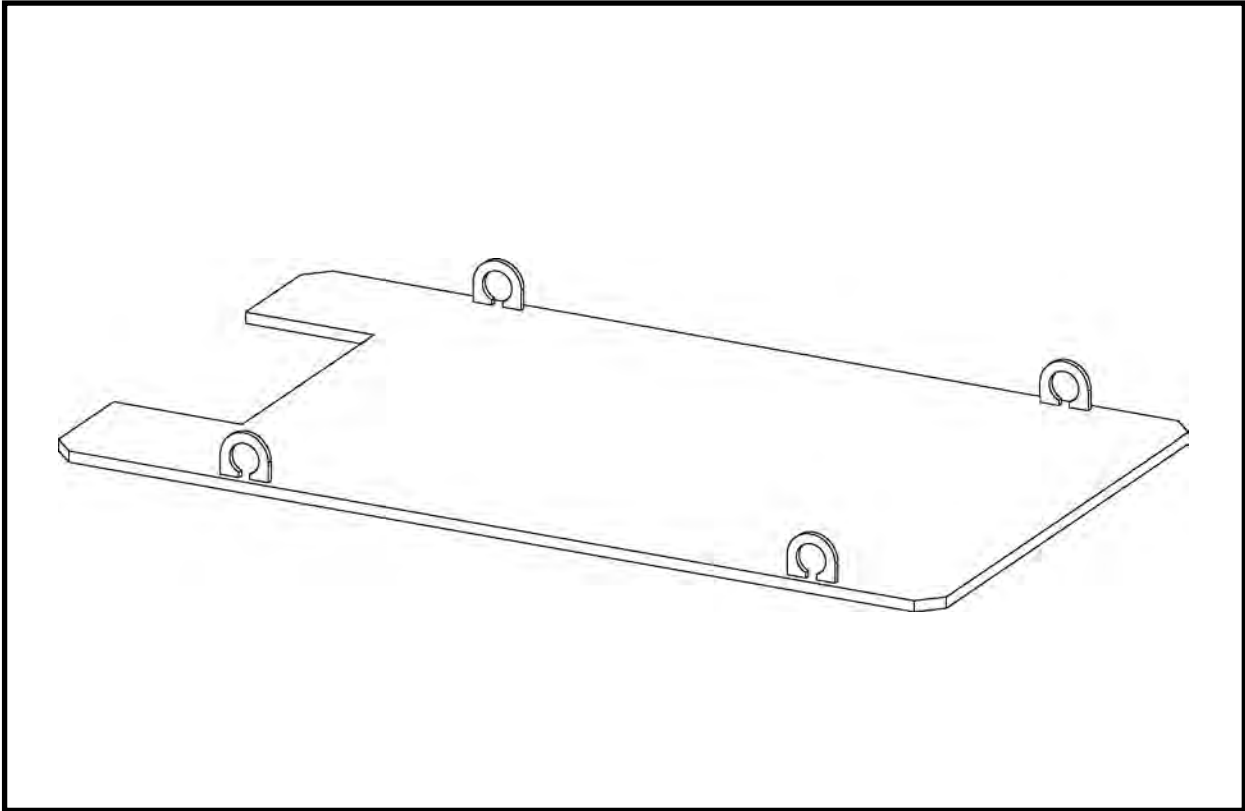
ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA48096F	PIT SEAL ASSEMBLY - 32 OD
1	1	A48095A	SEAL, PIT
2	1	A48091P	SEAL
3	1	A48092P	SEAL
4	1	A48093P	SEAL
5	8	A48094P	RETAINER, Pit Seal
6	8	A44396P	SUPPORT, Seal
7	8	A48090P	SUPPORT, Seal
8	1	P0416-005	PLUG, Square Head 1
9	32	P0040-012	WASHER, Hardened Flat 3/4
10	24	P0001-12-014	BOLT, Hex 3/4 UNC x 3.5
11	8	A07441P	ROD, Threaded
12	8	P0003-12-000	NUT, 3/4 UNC

PIT SEAL 41.5 OD ASSEMBLY, FA48087F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA48087F	PIT SEAL ASSEMBLY - 41.5 OD
1	1	A48084A	CAN, Pit Seal
2	4	A48083P	SUPPORT, Outer
3	1	A48079P	SEAL
4	4	A48082P	SUPPORT, Inner
5	1	A48078P	SEAL
6	1	A48081P	RETAINER, Seal
7	1	A48077P	SEAL
8	80	P0040-010	WASHER, Hardened Flat 5/8
9	24	P0001-10-012	BOLT, Hex 5/8 UNC x 3
10	8	A48076P	STUD
11	8	P0003-10-000	NUT, 5/8 UNC
12	8	P0025-002A	STUD
13	8	P0040-008	WASHER, Hardened Flat 1/2
14	8	P0003-08-000	NUT, 1/2 UNC
15	4	A48080P	STRAP, Seal Support
16	1	P0416-005	PLUG, Square Head 1

GBM PIT FLOOR ASSEMBLY, F42138F
LATCHING FRAME



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42138F	GBM PIT FLOOR ASSEMBLY

LUBRICATION 225 PUMP, FA42109F



ITEM	QTY	PART NO.	DESCRIPTION
0	1	FA42109F	LUBRICATION 225 PUMP
1	1	P0303-248	PUMP, Lubrication (Includes items 1a - 1z)
1a*	1	P0303-248A	SWITCH, Fuel, Engine
1b*	1	P0303-248B	BATTERY
1c*	1	P0303-248C	REGULATOR, Voltage, Engine
1d*	1	P0303-248D	HOUSING
1e*	1	P0303-248E	GASKET
1f*	1	P0303-248F	GASKET
1g*	1	P0303-248G	PUMP, Discharge
1h*	1	P0303-248H	STRAINER
1i*	1	P0303-248I	GAUGE W/ISOLATOR
1j*	1	P0303-248J	SEAL, Mixer Pump
1k*	1	P0303-248K	CLUTCH, Throw Out System
1l*	1	P0303-248L	SHROUD, Clutch
1m*	1	P0303-248M	GUARD, Bearing
1n*	1	P0303-248N	PLATE, Valve
1o*	1	P0303-248O	MANIFOLD
1p*	1	P0303-248P	ORING
1q*	1	P0303-248Q	ORING
1r	1	P0303-248R	TIMER, Lube Pump
1s	1	P0303-248S	RELIEF, Cross Over
1t	1	P0303-248T	CAP, Mixing Pump Flange
1v	1	P0303-248V	REMOTE with 50' Cord
1w	1	P0303-248W	KIT, Diaphragm
1x	1	P0303-248X	FILTER, Air (For Diesel Engine)
1y	1	P0303-248Y	FUEL SHUT OFF, Electric
1z	1	P0303-248Z	CLUTCH, Electric
2	1	P0200-103	ASSEMBLY, Hose 5/8 x 25'

* Not Shown

gbmpm-mvc-076trans

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