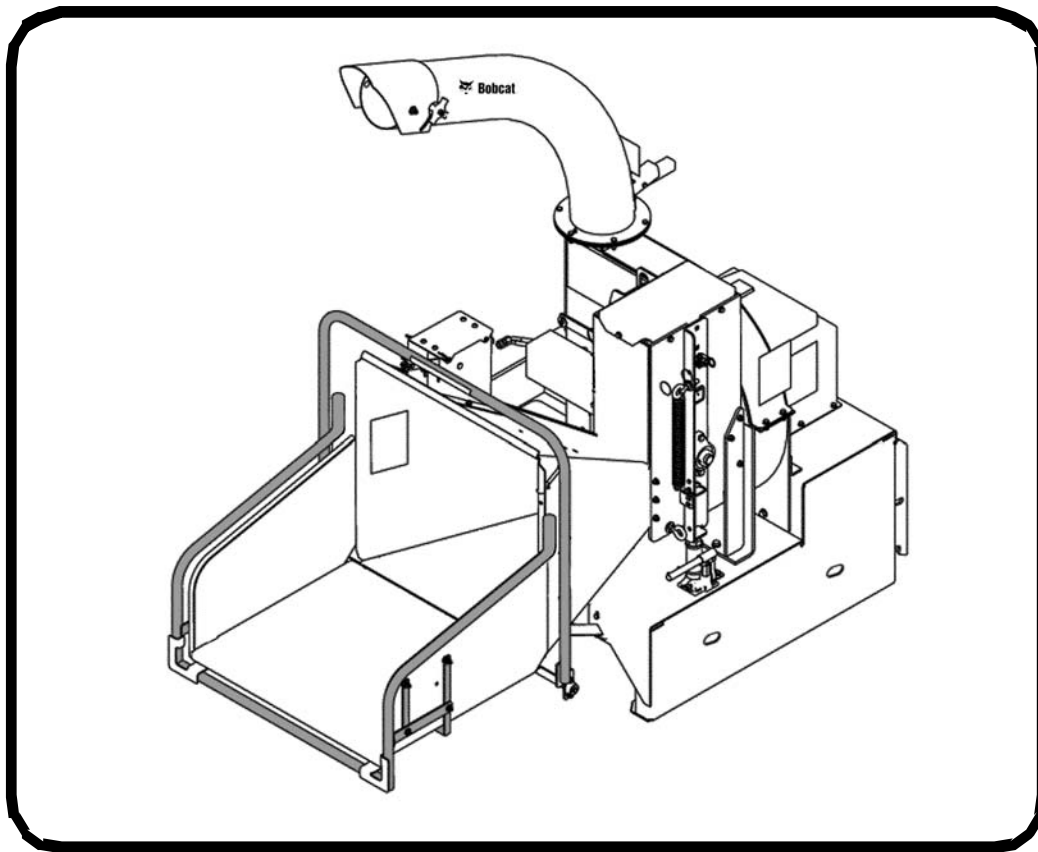




Bobcat®

Service Manual Chipper

(WC-5A Chipper) S/N 912900101 & Above
(WC-8A Chipper) S/N 739500101 & Above
(WC-8B Chipper) S/N A02B00101 & Above



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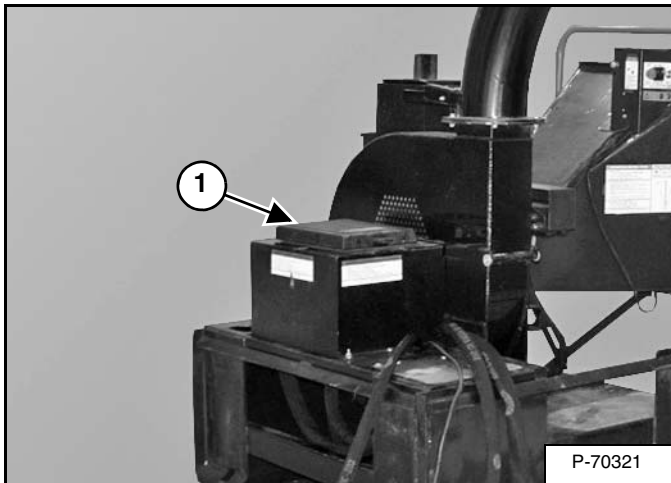
- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

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MANUAL STORAGE LOCATION

Read and understand the Operation & Maintenance Manual before operating the chipper.

Figure 3



The Operation & Maintenance Manual and Safety Manual(s) are stored in a container (Item 1) **[Figure 3]** located on the chipper.

LUBRICATION

Lubrication Locations

IMPORTANT

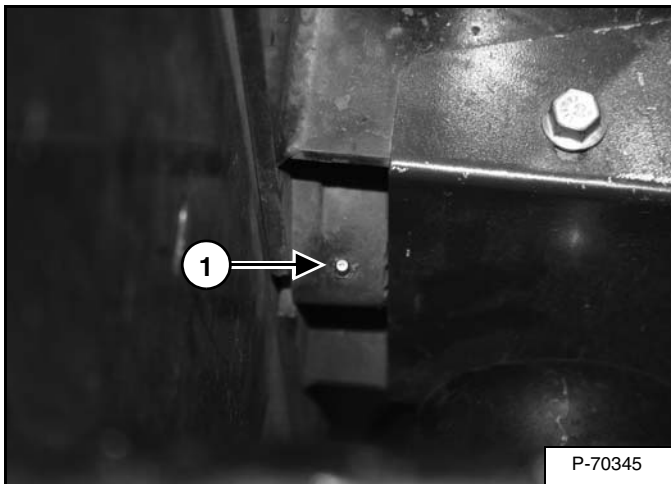
Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

Always use a good quality lithium base grease when lubricating the chipper. Apply the lubricant until extra grease shows.

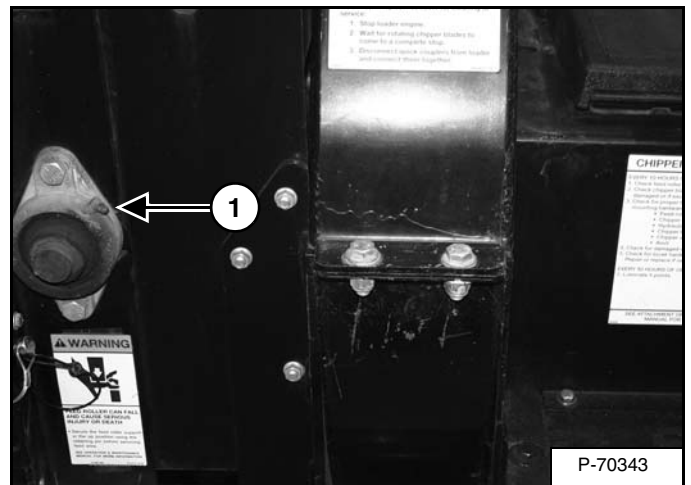
Lubricate the following five areas with grease. **EVERY 50 HOURS:**

Figure 10-30-1



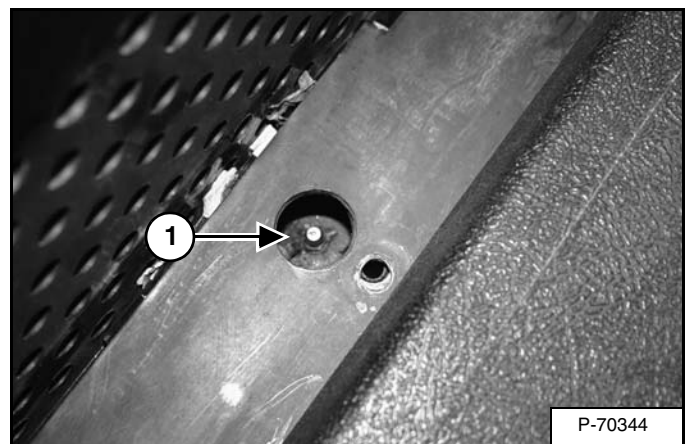
Feed roller bearing (Item 1) [Figure 10-30-1].

Figure 10-30-2



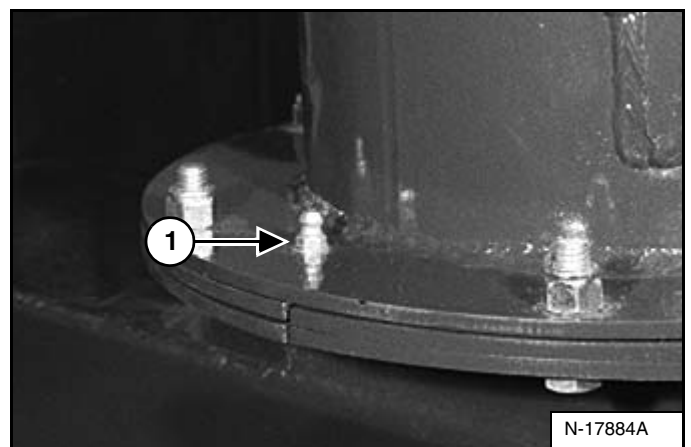
Feed roller bearing (Item 1) [Figure 10-30-2] both sides.

Figure 10-30-3



Shaft (Item 1) [Figure 10-30-3].

Figure 10-30-4



Chute (Item 1) [Figure 10-30-4].

FEED ROLLER SUPPORT

Procedure

Figure 10-70-1



AVOID INJURY OR DEATH

Secure the feed roller support in the up position using the retaining pin before servicing feed area.

W-2532-0706

Figure 10-70-2

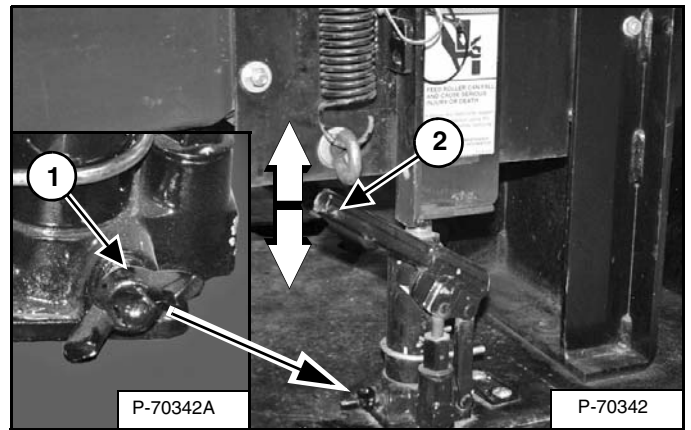
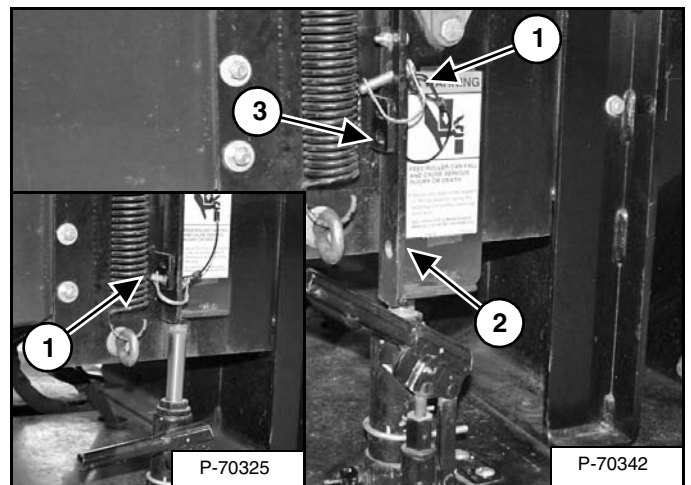


Figure 10-70-3



Feed Roller Support Operation

To Raise:

1. Remove retaining pin (Item 1) [Figure 10-70-3] from storage location.
2. Turn valve (Item 1) [Figure 10-70-2] clockwise to close.
3. Move handle (Item 2) [Figure 10-70-2] up and down to raise the Feed Roller Support until the hole (Item 2) [Figure 10-70-3] is aligned with the support bracket (Item 3) [Figure 10-70-3].
4. Install retaining pin (Item 1) (inset) [Figure 10-70-3] through the support bracket and housing.

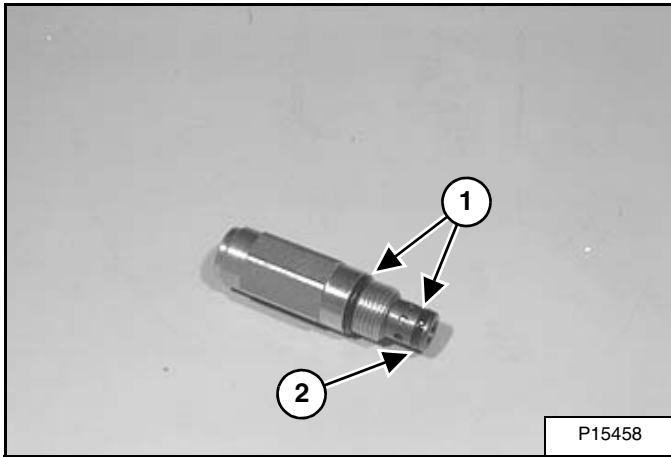
To Lower:

1. Remove retaining pin (Item 1) [Figure 10-70-3] from storage location.
2. Slowly turn valve (Item 1) [Figure 10-70-2] counter-clockwise to lower Feed Roller Support.
3. Install retaining pin (Item 1) [Figure 10-70-3] in the storage position.

HYDRAULIC CONTROL VALVE (S/N 912900101 & ABOVE, S/N 739500101 & ABOVE) (CONT'D)

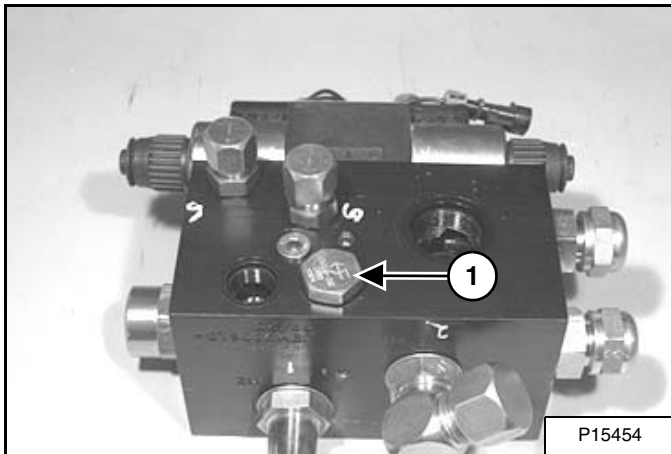
Disassembly (Cont'd)

Figure 20-10-10



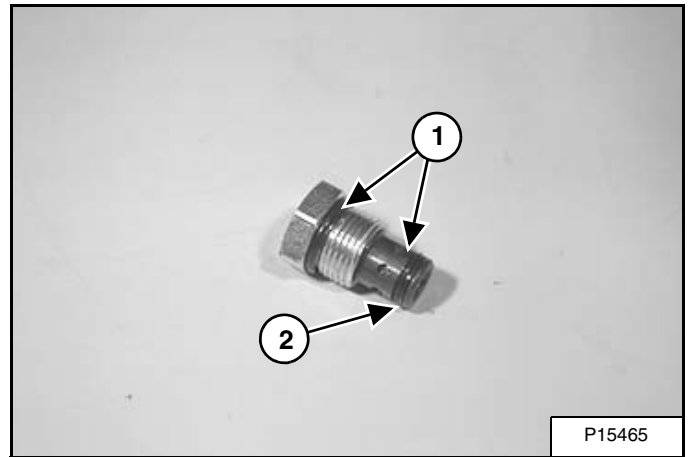
Remove the O-rings (Item 1) and back-up ring (Item 2) [Figure 20-10-10] from the relief valve.

Figure 20-10-11



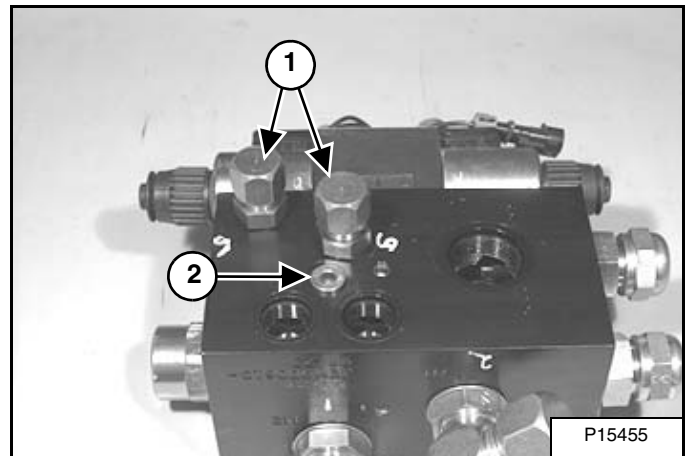
Remove the check valve (Item 1) [Figure 20-10-11] from the control valve.

Figure 20-10-12



Remove the O-rings (Item 1) and back-up ring (Item 2) [Figure 20-10-12] from the check valve.

Figure 20-10-13

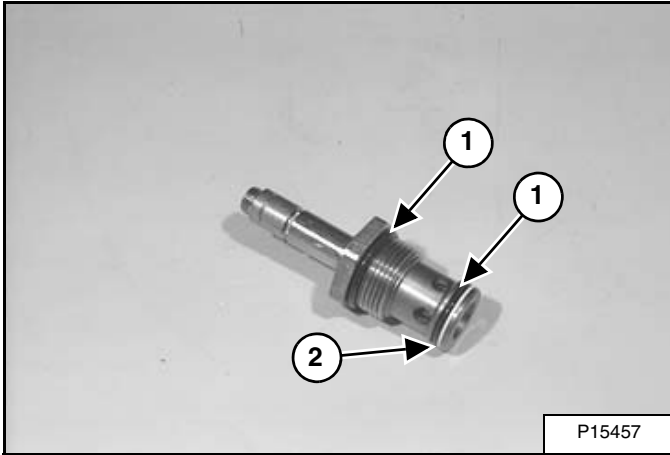


Remove the fittings (Item 1) and plug (Item 2) [Figure 20-10-13] from the control valve.

HYDRAULIC CONTROL VALVE (S/N 912900101 & ABOVE, S/N 739500101 & ABOVE) (CONT'D)

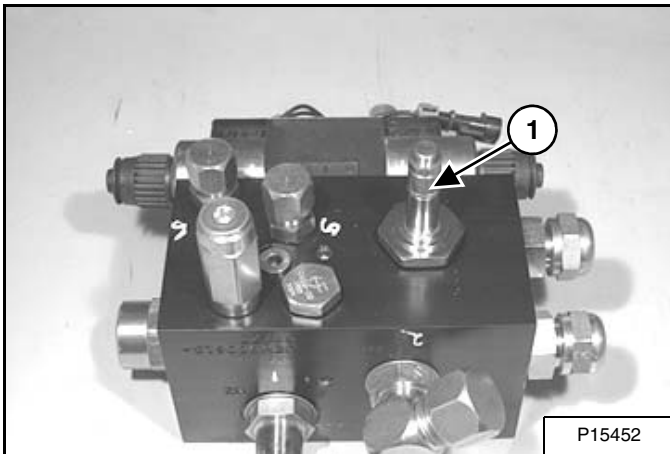
Assembly (Cont'd)

Figure 20-10-49



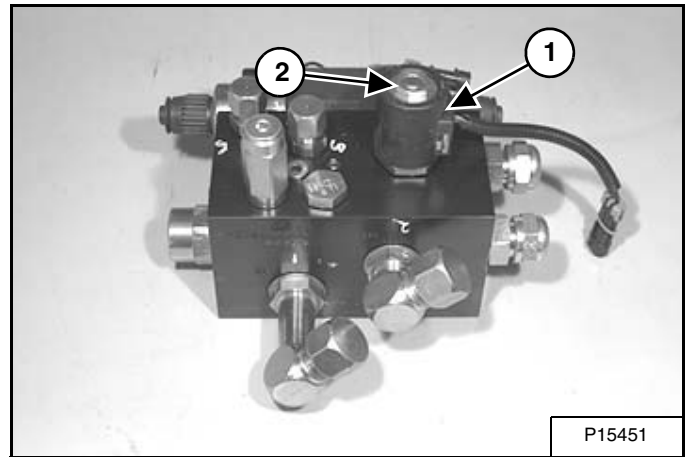
Install the O-rings (Item 1) and back-up ring (Item 2) [Figure 20-10-49] on the spool.

Figure 20-10-50



Install the spool (Item 1) [Figure 20-10-50]. Tighten to 50 N•m (37 ft-lb) torque.

Figure 20-10-51



Install the coil (Item 1) over the spool. Install the nut (Item 2) [Figure 20-10-51].

Tighten the nut to 4 - 5 N•m (3 - 4 ft-lb) torque maximum.

HYDRAULIC CONTROL VALVE (S/N A02B00101 & ABOVE) (CONT'D)

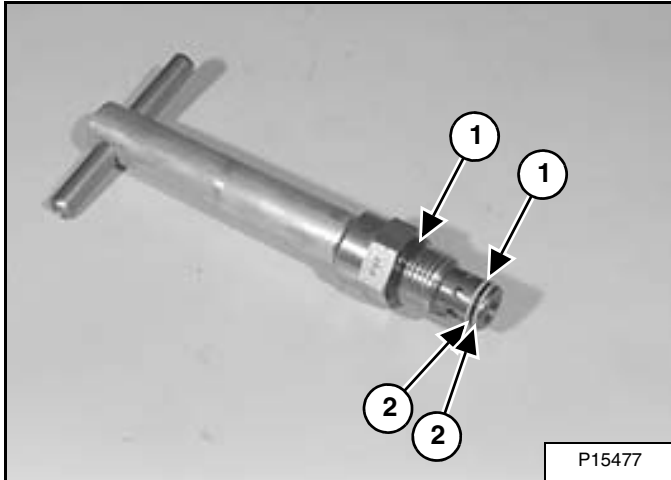
Assembly

Clean all components with clean solvent and dry with compressed air.

Use new O-rings and back-up rings.

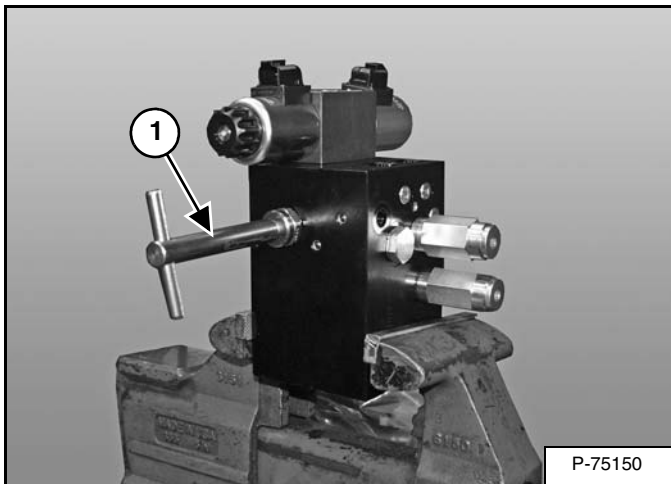
Apply oil to all new O-rings and back-up rings before assembly.

Figure 20-11-28



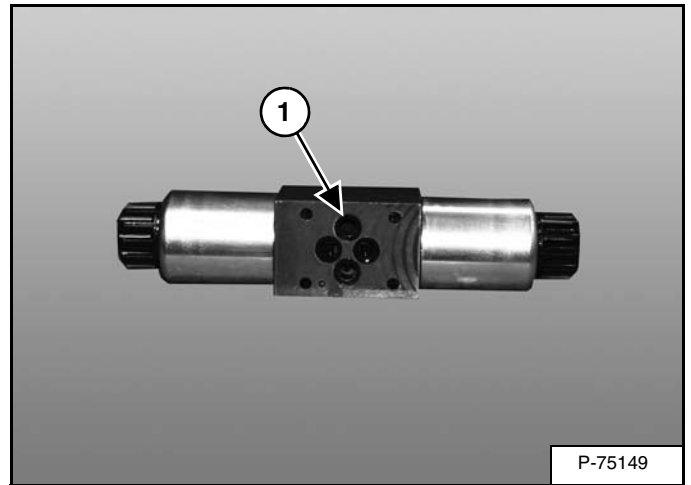
Install the O-rings (Item 1) and back-up rings (Item 2) [Figure 20-11-28] on the "T" valve.

Figure 20-11-29



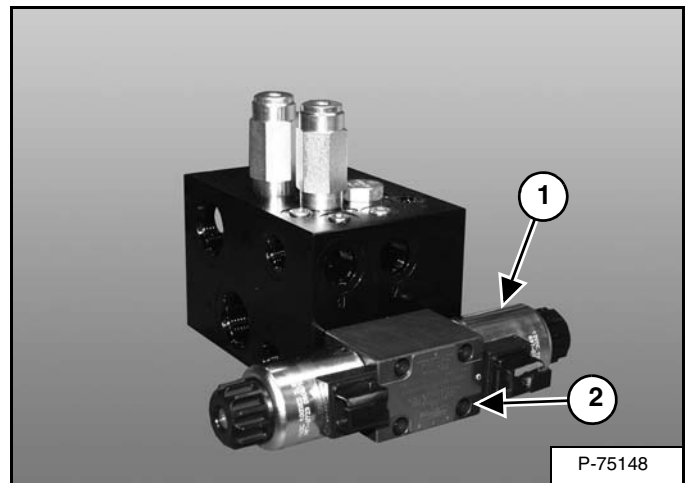
Install the "T" valve (Item 1) [Figure 20-11-29]. Tighten to 10 N•m (7 ft-lb) torque.

Figure 20-11-30



Install the O-rings (Item 1) [Figure 20-11-30] on the valve.

Figure 20-11-31



Install the valve (Item 1) to the control valve using four screws (Item 2) [Figure 20-11-31]. Tighten to 5 N•m (4 ft-lb) torque.

**SHUT-OFF VALVE (S/N A02B00101 & ABOVE)
(CONT'D)**

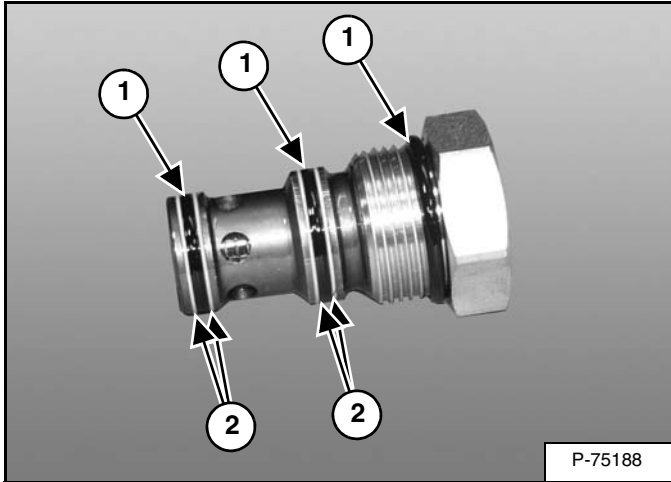
Assembly

Clean all components with clean solvent and dry with compressed air.

Use new O-rings and back-up rings.

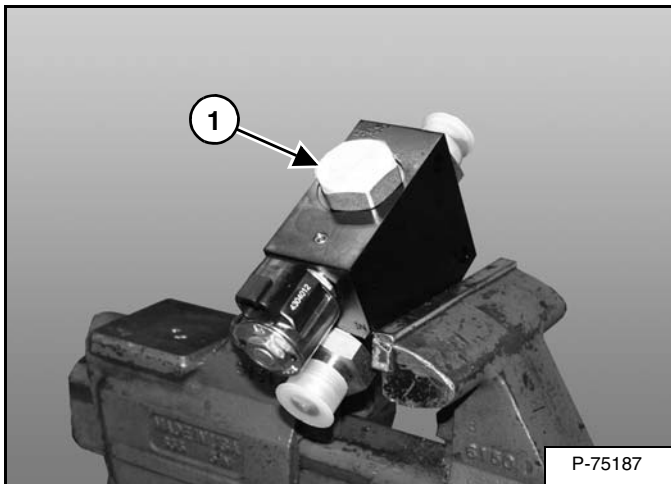
Apply oil to all new O-rings and back-up rings before assembly.

Figure 20-20-11



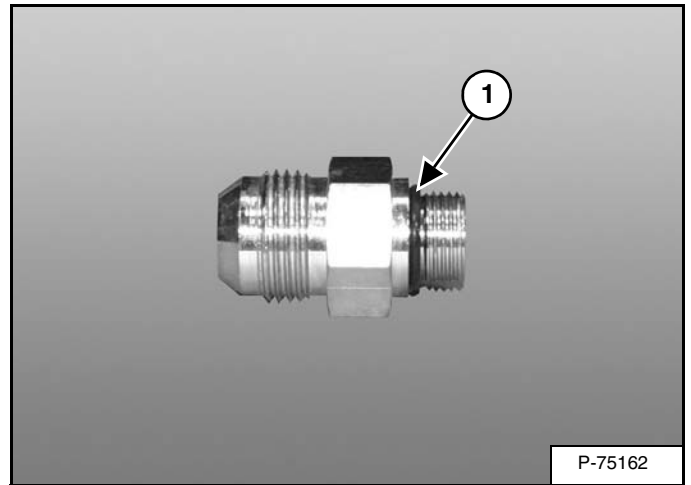
Install the O-rings (Item 1) and back-up rings (Item 2) [Figure 20-20-11] on the check valve.

Figure 20-20-12



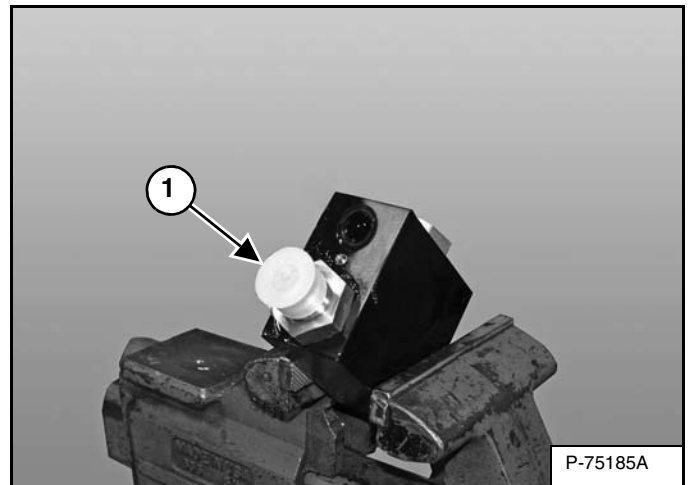
Install the check valve (Item 1) [Figure 20-20-12].

Figure 20-20-13



Install the O-ring (Item 1) [Figure 20-20-13] on the fitting.

Figure 20-20-14



Install the fitting (Item 1) [Figure 20-20-14].

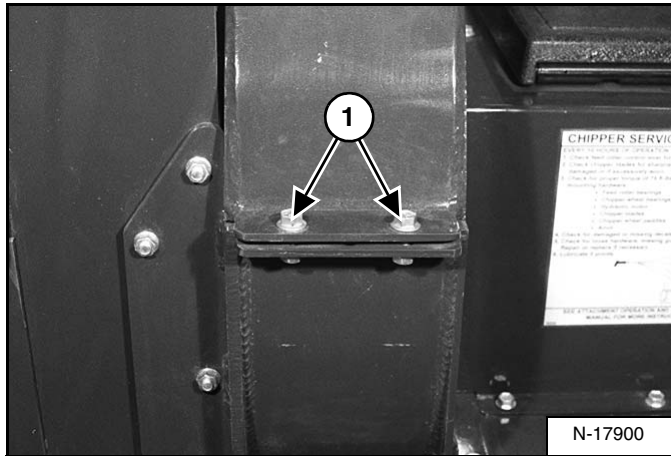
HYDRAULIC MOTOR (CHIPPER WHEEL) (S/N 739500101 & ABOVE)

Removal And Installation

Remove the chipper attachment from the loader.

Position the discharge chute to the right side of the chipper.

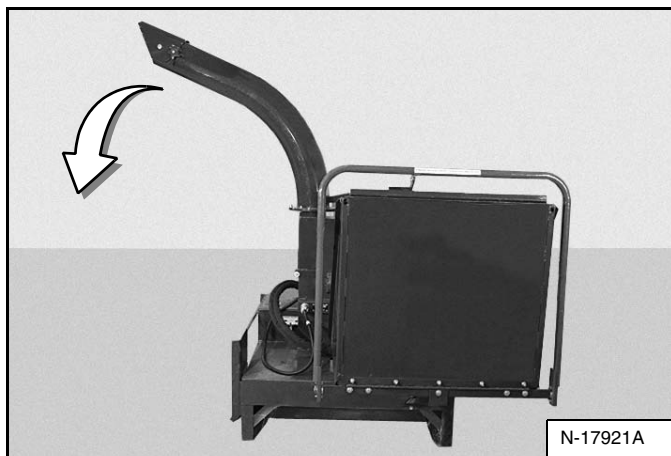
Figure 20-31-1



Remove the two bolts (Item 1) [Figure 20-31-1] and nuts.

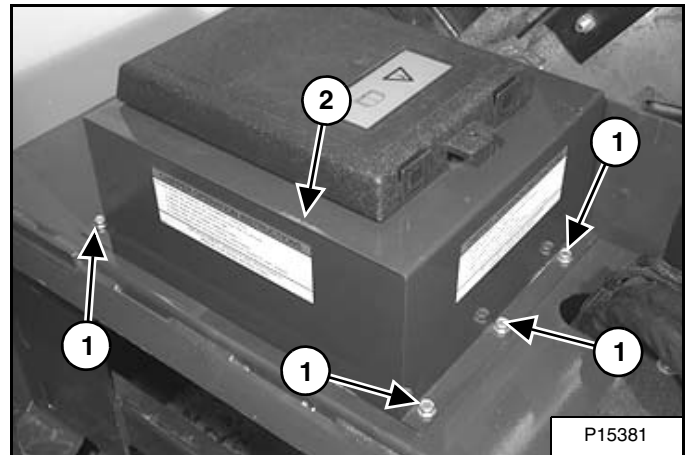
Installation: Tighten the bolts to 34 - 38 N•m (25 - 28 ft-lb) torque.

Figure 20-31-2



Tip the chute away from the chipper to raise the housing for access [Figure 20-31-2].

Figure 20-31-3



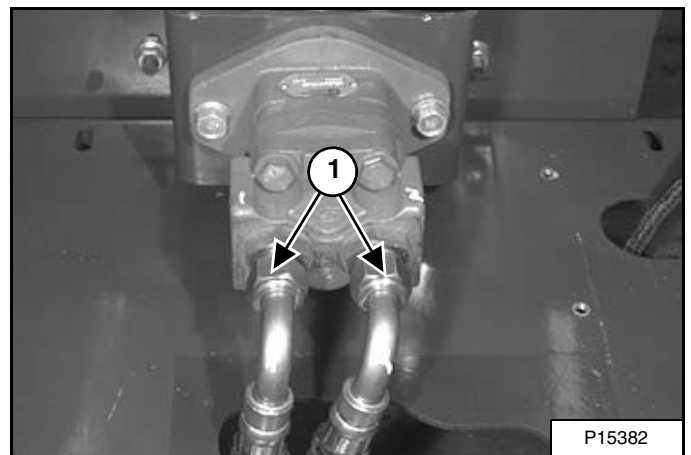
Remove the six bolts (Item 1). Remove the chipper wheel hydraulic motor cover (Item 2) [Figure 20-31-3].

IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

I-2003-0888

Figure 20-31-4



Mark and remove the hydraulic hoses (Item 1) [Figure 20-31-4].

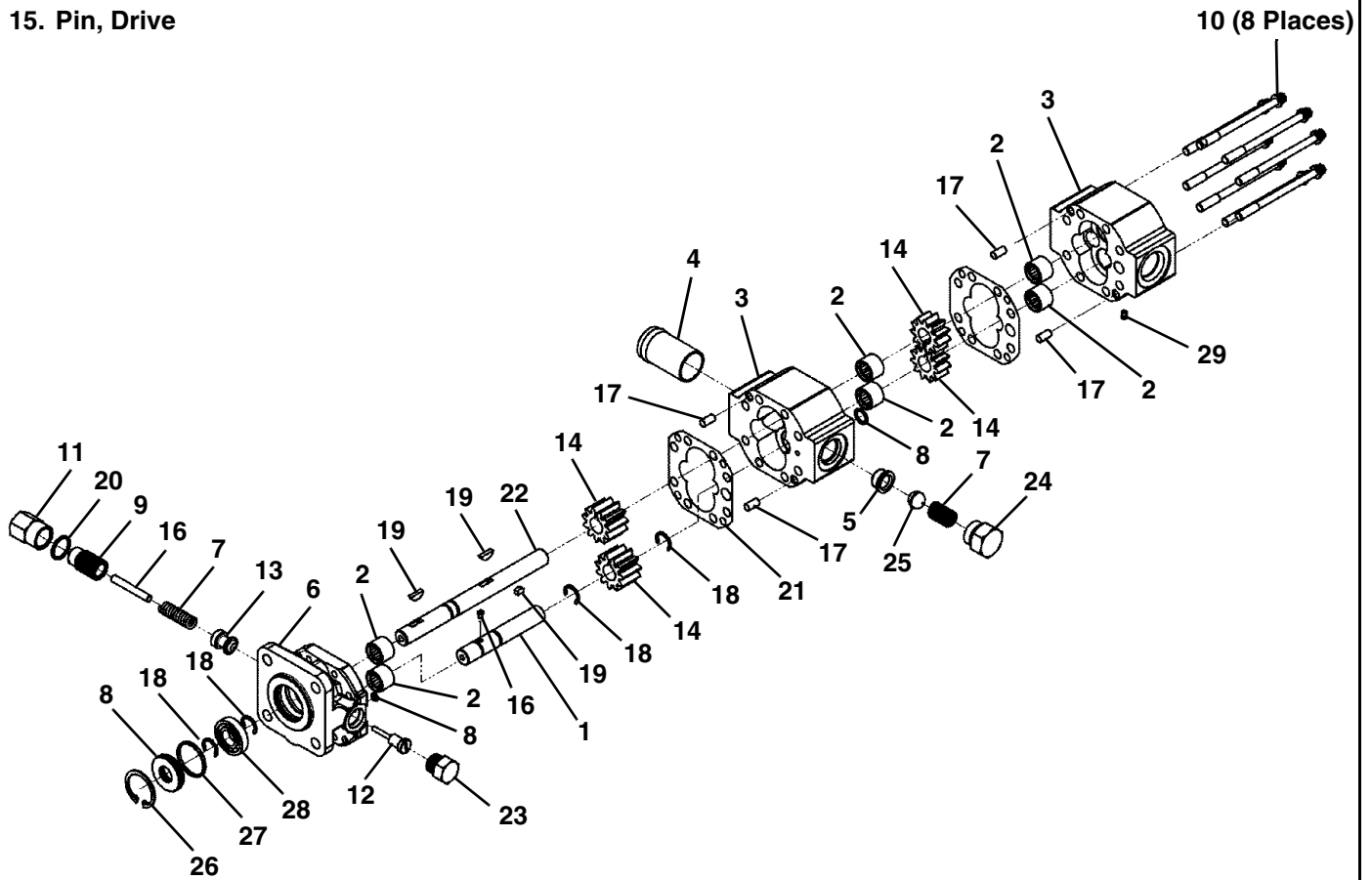
Model WC-8A S/N 739500413 & Above: Remove the case drain hydraulic hose from the hydraulic motor.

NOTE: WC-5A model shown. WC-8A motor has hoses on the sides of the end housing.

HYDRAULIC MOTOR (CHIPPER WHEEL) (S/N A02B00101 & ABOVE) (CONT'D)

Parts Identification

- | | |
|-------------------|-------------------|
| 1. Idler Shaft | 16. Pin, Dowel |
| 2. Needle Bearing | 17. Pin, Shear |
| 3. Gear Housing | 18. Crescent Ring |
| 4. Tube | 19. Key |
| 5. Seat | 20. Gasket RV |
| 6. Stator | 21. Kit, Gasket |
| 7. Spring | 22. Shaft, Drive |
| 8. Seal | 23. Plug, Steel |
| 9. Screw, Adj | 24. Assembly, Cap |
| 10. Screw | 25. Ball |
| 11. Nut | 26. Snap Ring |
| 12. Valve Stem | 27. Spacer |
| 13. Plunger | 28. Ball Bearing |
| 14. Gear | 29. Plug |
| 15. Pin, Drive | |



P-75642

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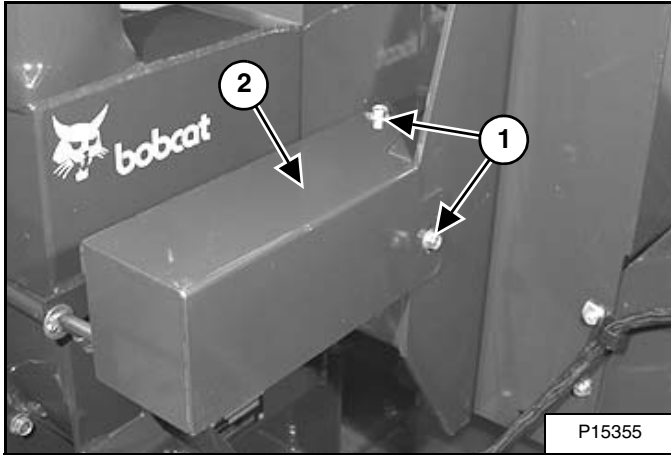
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HYDRAULIC MOTOR (FEED ROLLER) (S/N 912900101 & ABOVE, S/N 739500164 & ABOVE, S/N A02B00101 & ABOVE)

Removal And Installation

Remove the chipper from the loader.

Figure 20-40-1



Remove the three bolts (Item 1) from the shield (Item 2) [Figure 20-40-1].

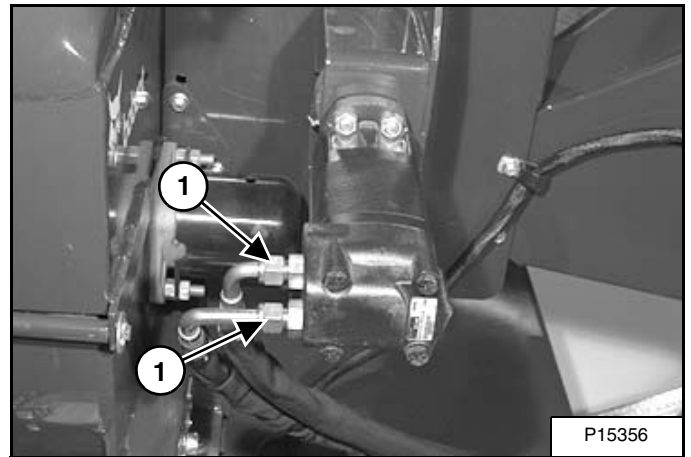
Remove the shield.

IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

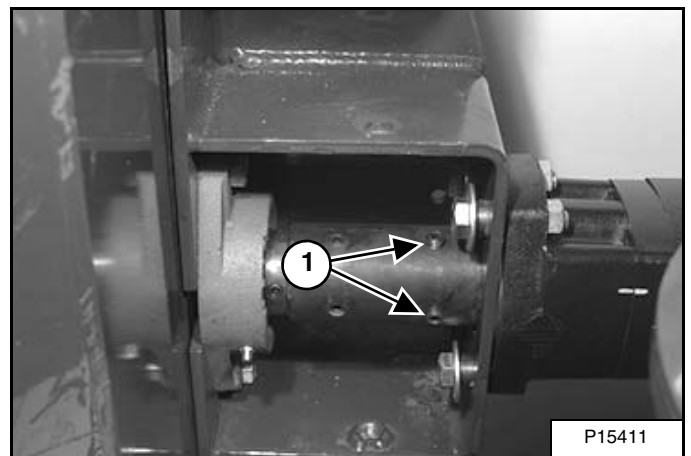
I-2003-0888

Figure 20-40-2



Mark and remove the hydraulic hoses (Item 1) [Figure 20-40-2].

Figure 20-40-3



Loosen the two set screws (Item 1) [Figure 20-40-3].

**HYDRAULIC MOTOR (FEED ROLLER) (S/N 739500163
& BELOW)**

Removal And Installation

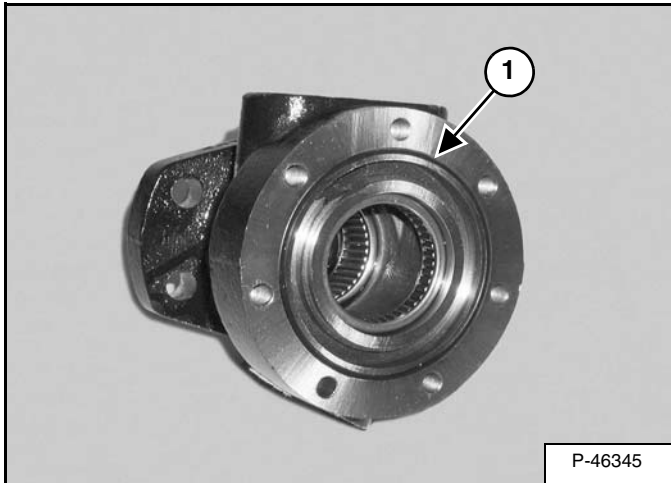
(See Removal And Installation on Page 20-40-1.)

The photos may appear different, the procedure is the same.

HYDRAULIC MOTOR (FEED ROLLER) (S/N 739500163 & BELOW) (CONT'D)

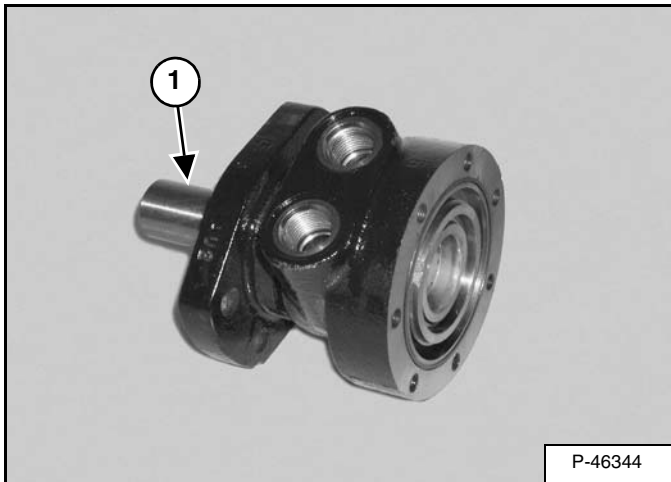
Assembly (Cont'd)

Figure 20-41-32



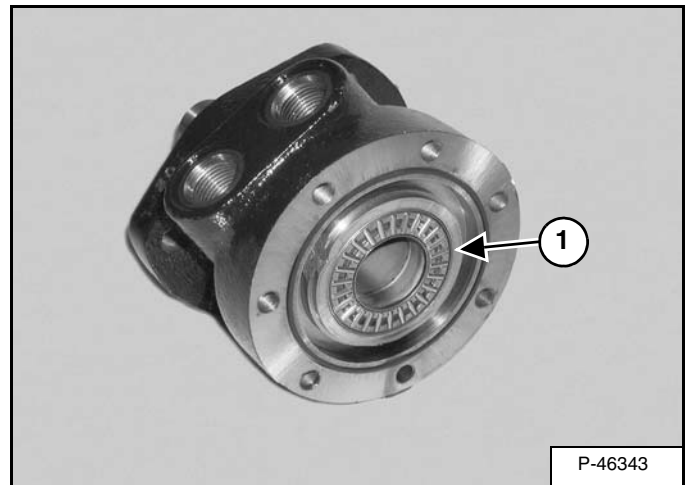
Install the O-ring (Item 1) [Figure 20-41-32].

Figure 20-41-33



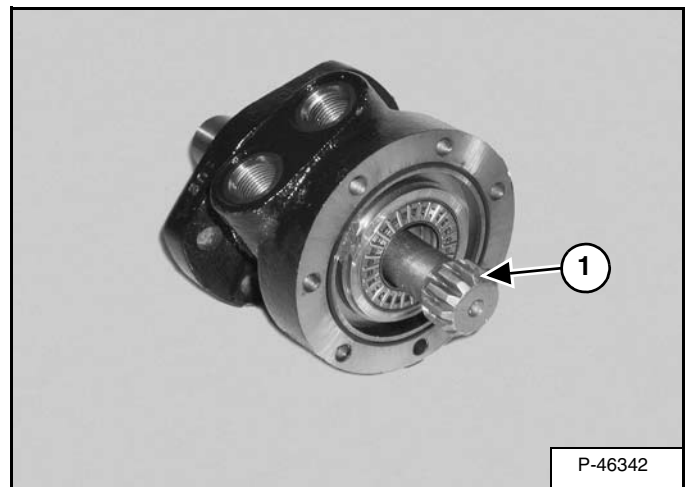
Install the shaft (Item 1) [Figure 20-41-33] in the housing.

Figure 20-41-34



Install the thrust bearing (Item 1) [Figure 20-41-34].

Figure 20-41-35



Install the shaft (Item 1) [Figure 20-41-35].

**HYDRAULIC PUMP (S/N A02B00101 & ABOVE)
(CONT'D)**

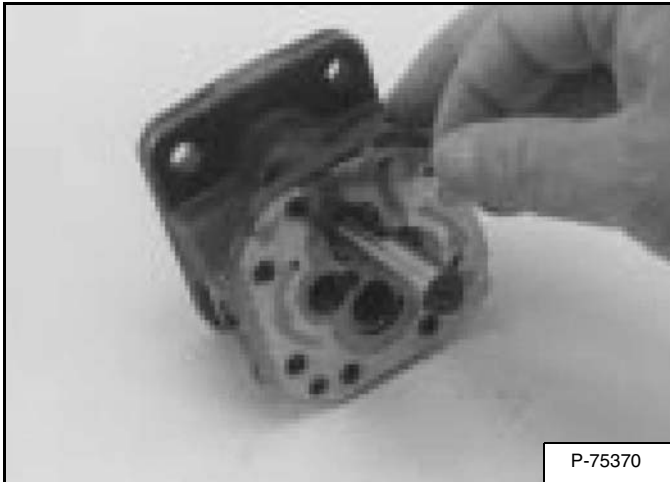
Disassembly (Cont'd)

Figure 20-50-18



Remove the two dowel pins from the gear housing or stator [Figure 20-50-18].

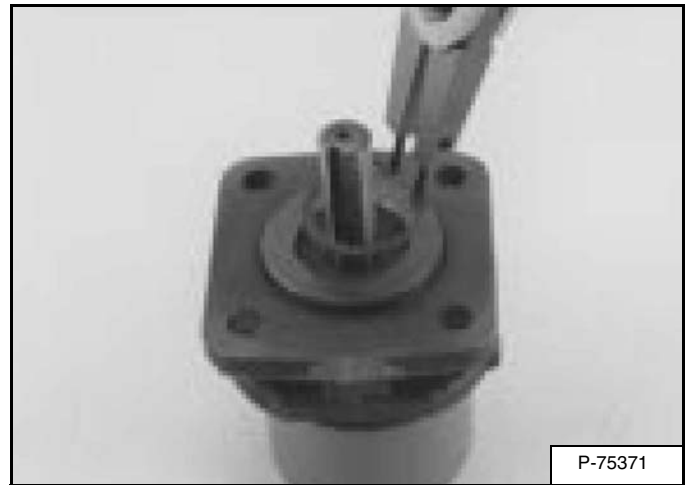
Figure 20-50-19



Remove the plastic gasket from the stator, this gasket may also remain on the gear housing [Figure 20-50-19].

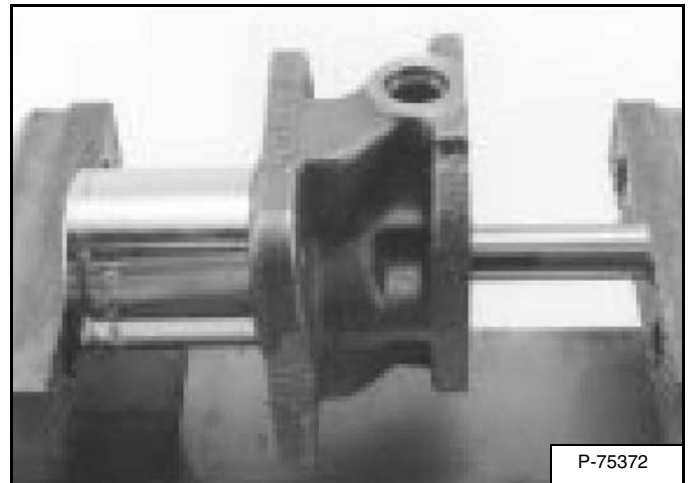
NOTE: The new gasket must be the same color as the gasket being removed when assembling the pump.

Figure 20-50-20



Remove the retaining ring from the shaft seal cavity [Figure 20-50-20].

Figure 20-50-21



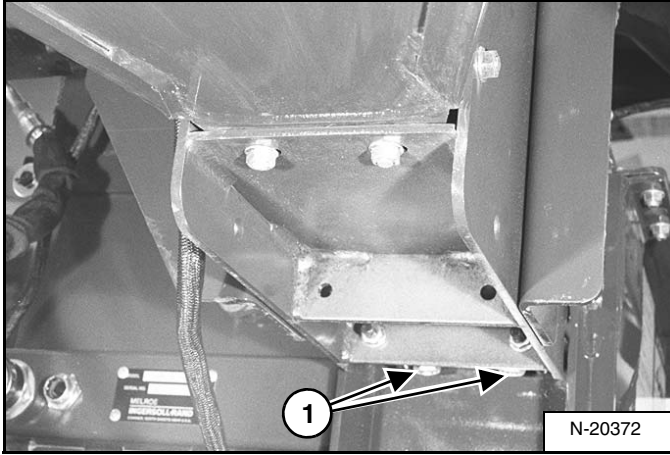
Remove the drive shaft, shaft seal and ball bearing from the stator [Figure 20-50-21].

CHIPPER BLADES (WC-5A) (CONT'D)

Setting Chipper Blade Clearance

The blade to anvil clearance is 1,6 - 4,8 mm (0.0625 - 0.1250 in).

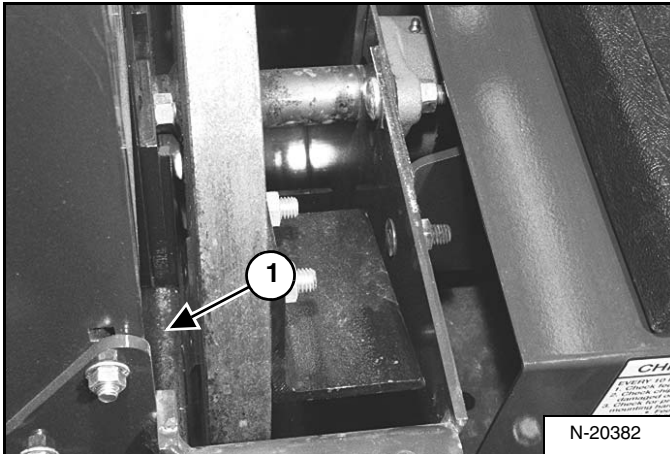
Figure 30-10-8



To adjust the clearance, loosen the two bolts (Item 1) [Figure 30-10-8].

Installation: Tighten the bolts to 88 - 95 N•m (65 - 70 ft-lb) torque.

Figure 30-10-9



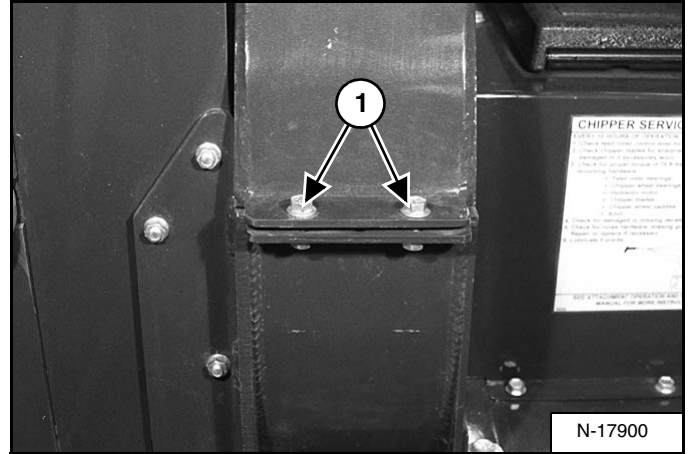
Move the anvil (Item 1) [Figure 30-10-9] until the correct clearance between the anvil and blades is reached.

The anvil can be installed in four different positions.

When the edge of the anvil becomes worn, remove the two bolts (Item 1) [Figure 30-10-8] and turn the anvil over. Install the bolts and set the blade to anvil clearance to the above listed dimensions. Replace the anvil if cracked or excessively worn.

Close the chipper housing using the discharge chute.

Figure 30-10-10



Install the two bolts (Item 1) [Figure 30-10-10] and nuts. Tighten the bolts to 34 - 38 N•m (25 - 28 ft-lb) torque.

WARNING

AVOID INJURY OR DEATH

Rotating chipper blades or flying objects can cause serious injury or death. Never operate the chipper with the housing open or without the housing bolts properly torqued.

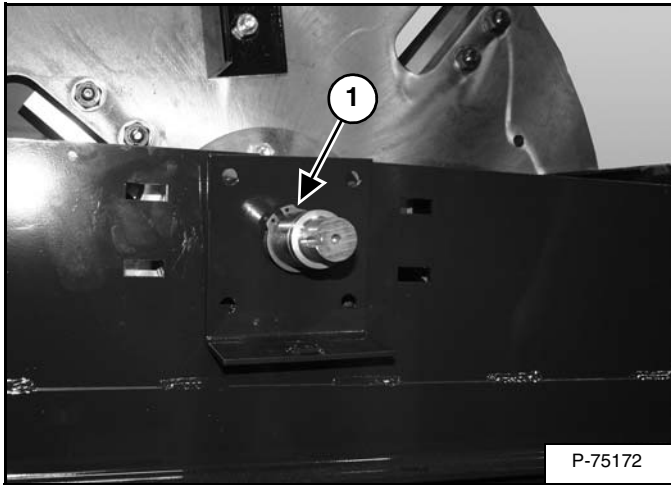
W-2345-0199

CHIPPER WHEEL (CONT'D)

Bearing Removal And Installation (WC-8B) (Cont'd)

Front Bearing (Cont'd)

Figure 30-30-17



Remove snap ring (Item 1) [Figure 30-30-17] from shaft.

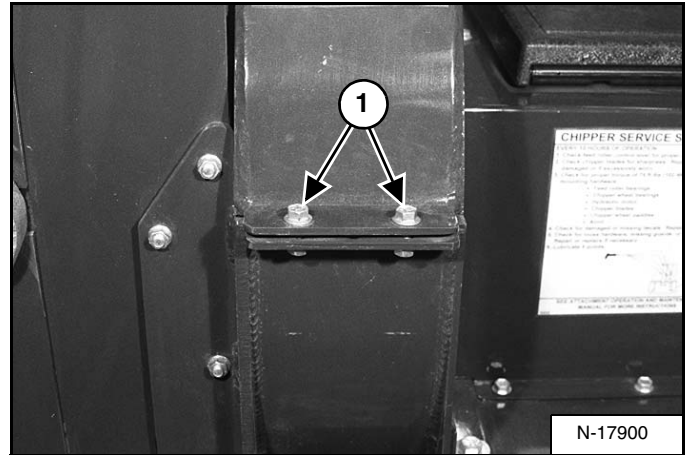
Remove bearing from the rear side of the chipper.

Housing Removal And Installation

Remove the chipper attachment from the loader.

Position the discharge chute to the right side of the chipper.

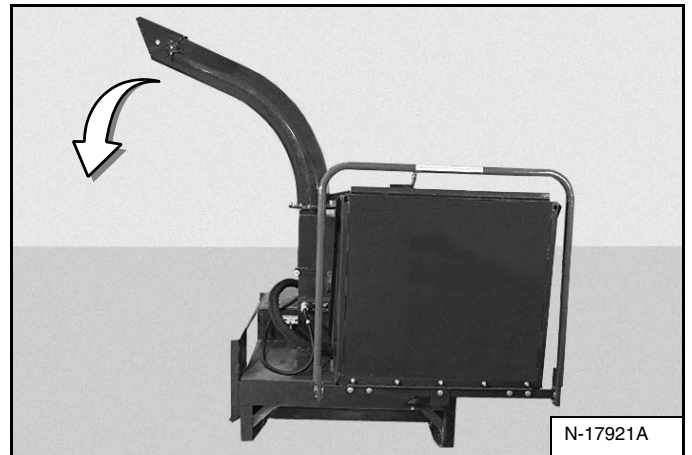
Figure 30-30-18



Remove the two bolts (Item 1) [Figure 30-30-18] and nuts.

Installation: Tighten the bolts to 34 - 38 N•m (25 - 28 ft-lb) torque.

Figure 30-30-19



Tip the chute away from the chipper to raise the housing for access [Figure 30-30-19].

Remove the feed table. (See Removal And Installation on Page 30-70-1.)

Remove the feed roller housing. (See Housing Removal And Installation on Page 30-60-2.)

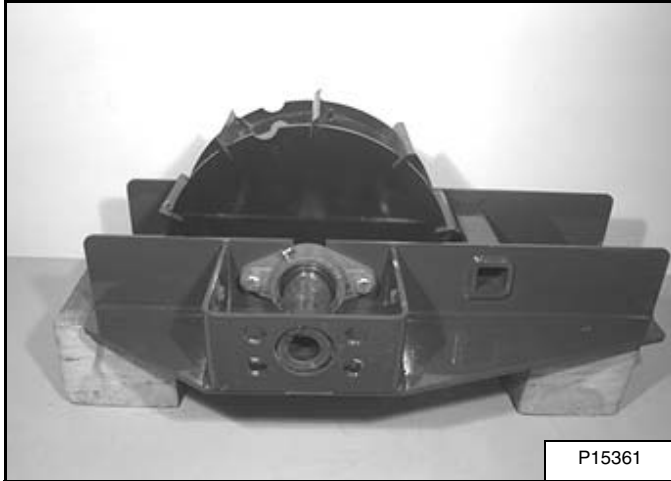
FEED ROLLER (CONT'D)

Disassembly And Assembly

Remove the feed roller. (See Removal And Installation on Page 30-60-1.)

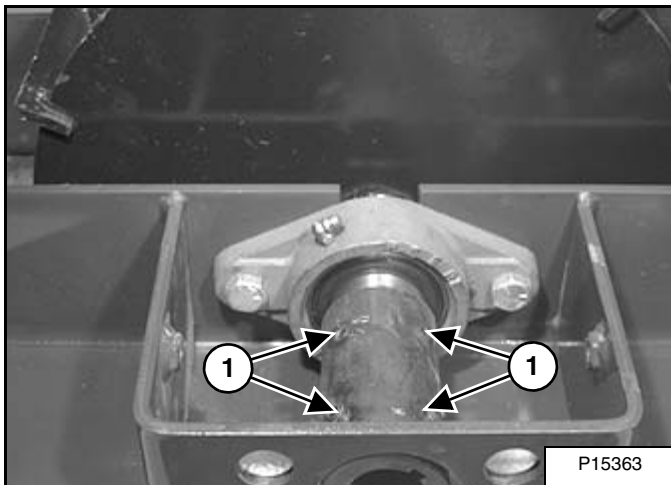
Remove the feed roller housing. (See Housing Removal And Installation on Page 30-60-2.)

Figure 30-60-7



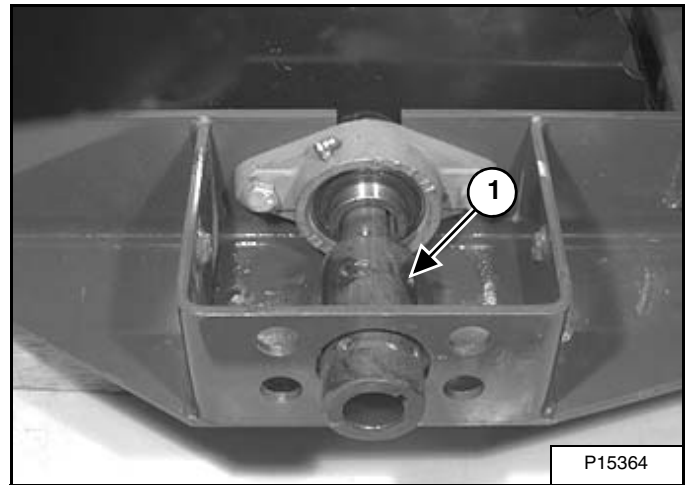
Place the feed roller assembly on a bench supported with blocks as shown [Figure 30-60-7].

Figure 30-60-8



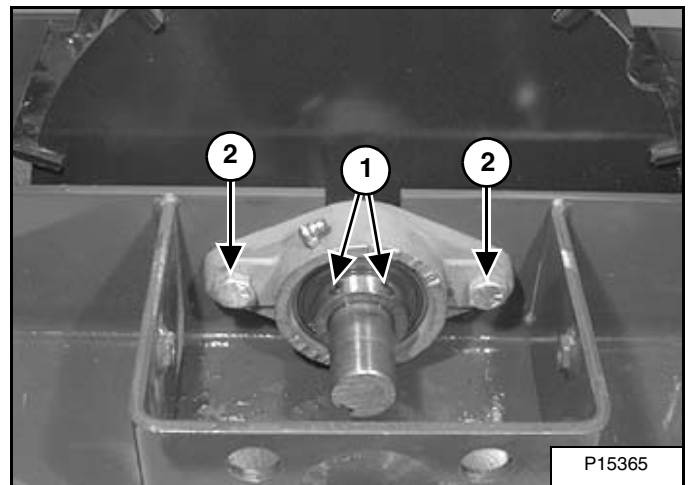
Loosen and remove the four set screws (Item 1) [Figure 30-60-8] from the coupler.

Figure 30-60-9



Remove the coupler (Item 1) [Figure 30-60-9] from the shaft.

Figure 30-60-10



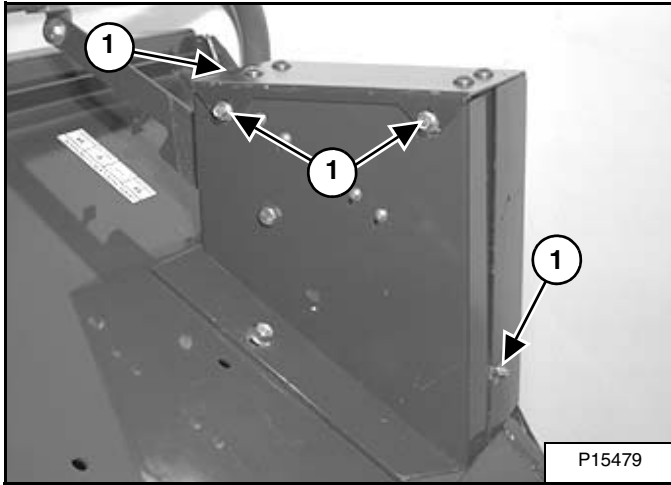
Loosen both set screws (Item 1). Remove both bearing mounting bolts (Item 2) [Figure 30-60-10].

Installation: Tighten the bolts to 88 - 95 N•m (65 - 70 ft-lb) torque.

REMOTE ATTACHMENT CONTROL (CONT'D)

Indicator Light And Switch Removal And Installation

Figure 30-80-16

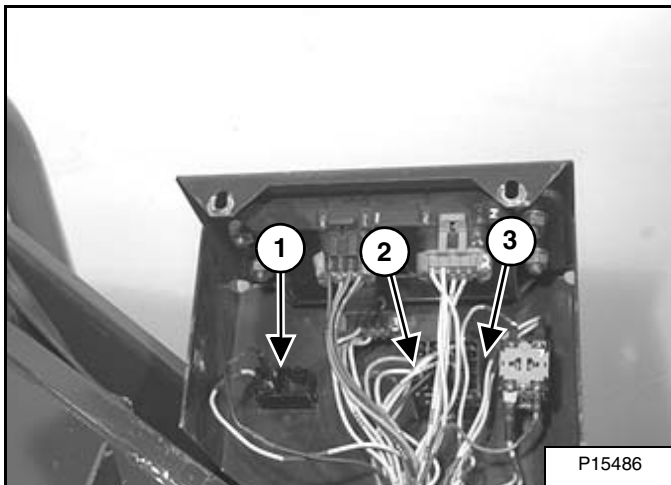


Remove the four mounting bolts (Item 1) [Figure 30-80-16] from the cover.

Lay the top cover to the side.

Mark the wire connectors for proper installation.

Figure 30-80-17

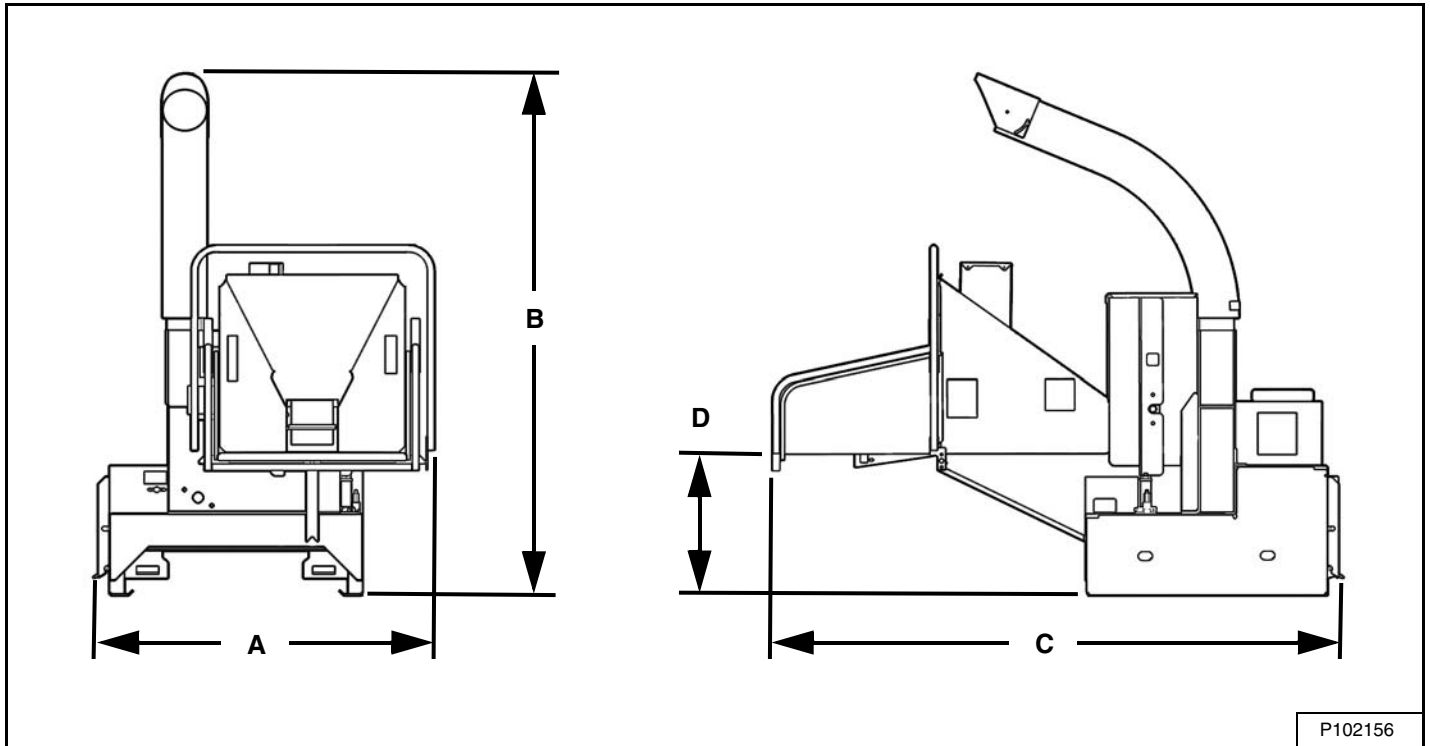


Replacement of the indicator light (Item 1) hydraulic pressure release switch (Item 2) and the attachment ON / OFF switch (Item 3) [Figure 30-80-17] may be done by removing the wire connectors and pushing the light or switch out the front of the cover.

WC-8B SPECIFICATIONS

Dimensions

- Where applicable, specifications conform to **SAE and ISO** standards and are subject to change without notice.



DESCRIPTION	WC-8B
Overall Width (A)	1549 mm (61.0 in)
Overall Height (B)	2369 mm (93.3 in)
Overall Length (C) (Feed Table Open)	2594 mm (102.1 in)
Feed Table Height (D)	645 mm (25.4 in)

Performance

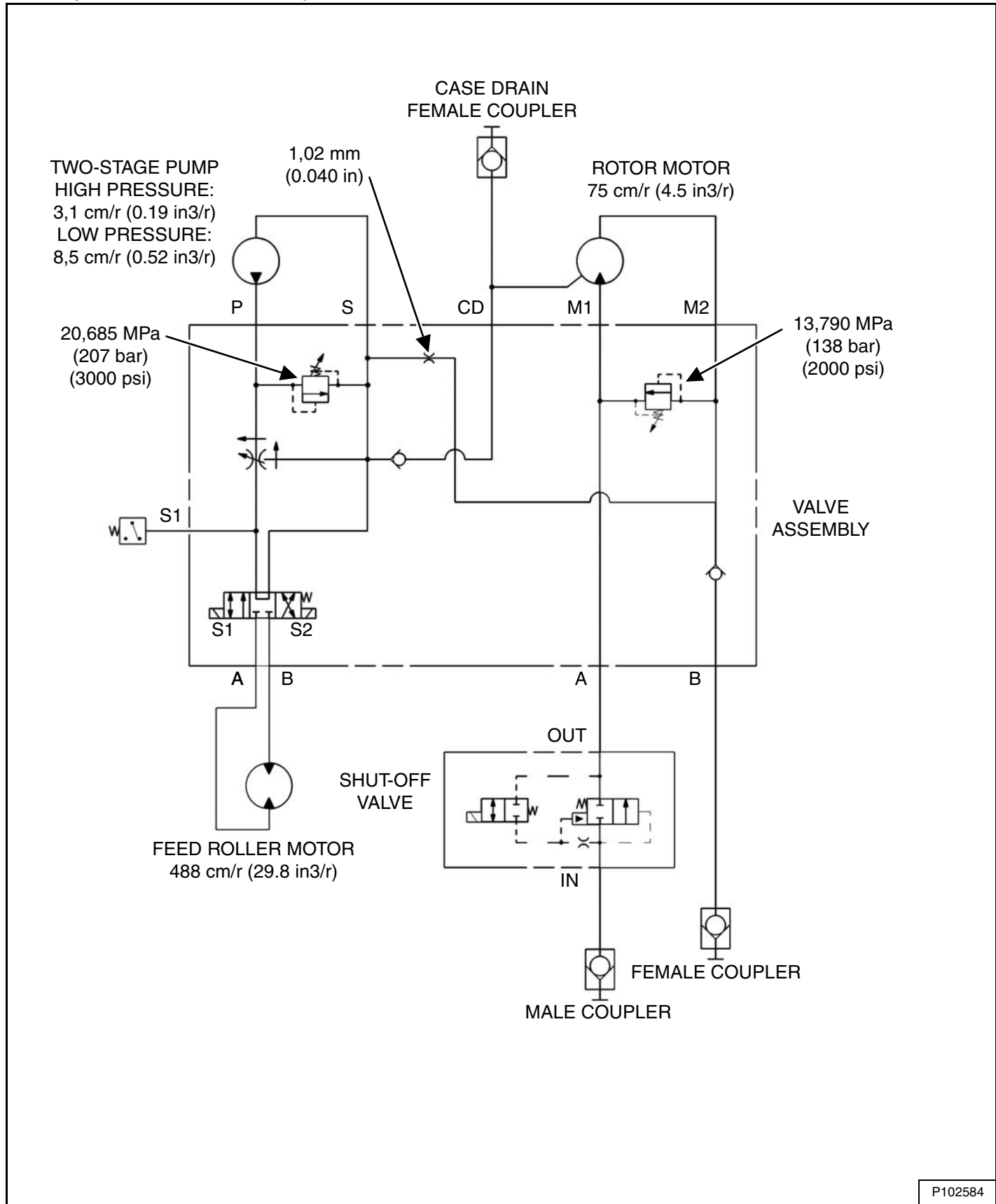
DESCRIPTION	WC-8B
Operating Weight (Approx.)	753 kg (1660 lb)
Hydraulic Flow Range	98 - 151 L/min (26 - 40 U.S. gpm)
Chipper Disk Speed (Maximum)	2025 rpm
Hydraulic Pressure (Maximum)	22,7 MPa (227 bar) (3300 psi)
Chipper Blades	Four Reversible Tool Steel Blades

Capacities

DESCRIPTION	WC-8B
Chipping Capacity	Up to 127 mm (5.0 in) Diameter Brush and Branches Continuous and up to 203 mm (8.0 in) Diameter Brush and Branches Maximum
Dual Mounting Location	Feed Table to Front or Right Side of Machine

HYDRAULIC SCHEMATIC

WC-8B (S/N A02B00101 & ABOVE)



P102584

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