

# Plate Compactor

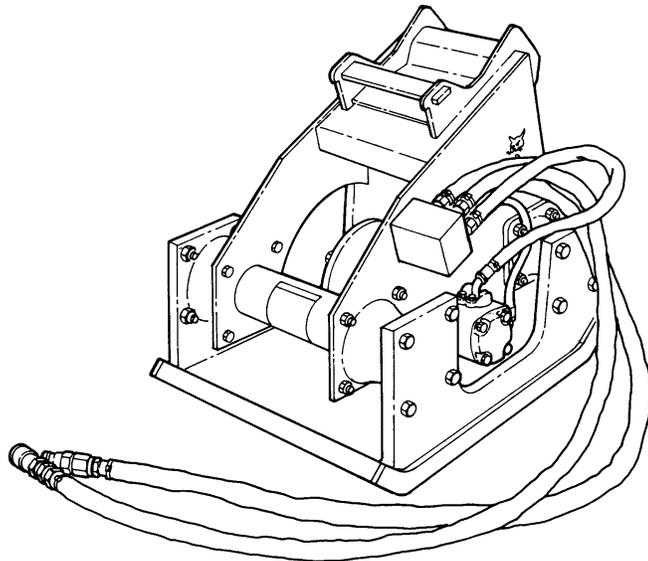
PC 30  
PC 60  
PC 62



# Bobcat®

# Service Manual

PC 30 S/N 769500101 & Above  
PC 60 S/N 608500101 & Above  
PC 62 S/N 608600101 & Above



Product: Bobcat Plate Compactor PC 30/PC 60/PC 62 Service Repair Workshop Manual

Full Download: <https://www.arepairmanual.com/downloads/bobcat-plate-compact>

[or-pc-30-pc-60-pc-62-service-repair-workshop-manual/](https://www.arepairmanual.com/downloads/bobcat-plate-compact-or-pc-30-pc-60-pc-62-service-repair-workshop-manual/)

Sample of manual. Download All 64 pages at:

<https://www.arepairmanual.com/downloads/bobcat-plate-compact-or-pc-30-pc-60-pc-62-service-repair-workshop-manual/>

# MAINTENANCE SAFETY



## WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903



**Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



B-10731a

-  Never service attachments without instructions. See Operation & Maintenance Manual and Attachment Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment with the engine running unless instructed to do so in manual.
-  Always lower the attachment to the ground before lubricating or servicing.
-  Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.
-  Stop, cool and clean engine of flammable materials before checking fluids.
-  Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.
-  Safety glasses are needed for eye protection from electrical arcs, battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.



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**SAFETY AND  
MAINTENANCE**

**HYDRAULIC  
SYSTEM**

**MAIN FRAME**

**SPECIFICATIONS  
AND SCHEMATICS**

**CALIFORNIA  
PROPOSITION 65 WARNING**  
Diesel engine exhaust and some of its  
constituents are known to the State of California  
to cause cancer, birth defects and other  
reproductive harm.



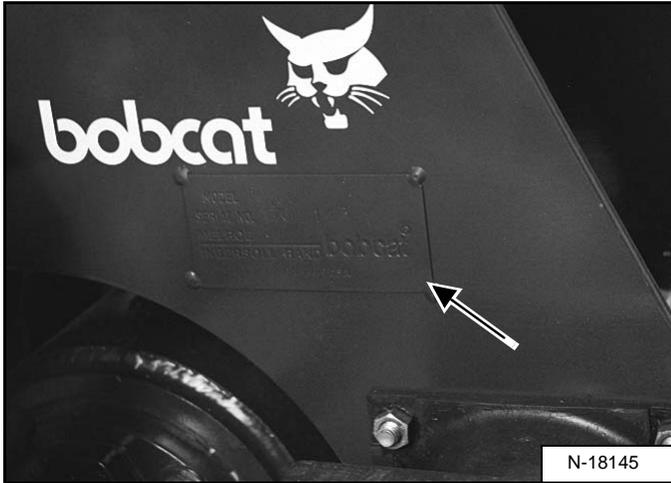
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## SERIAL NUMBER LOCATIONS

Always use the serial number of the Plate Compactor when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

### Plate Compactor Serial Number

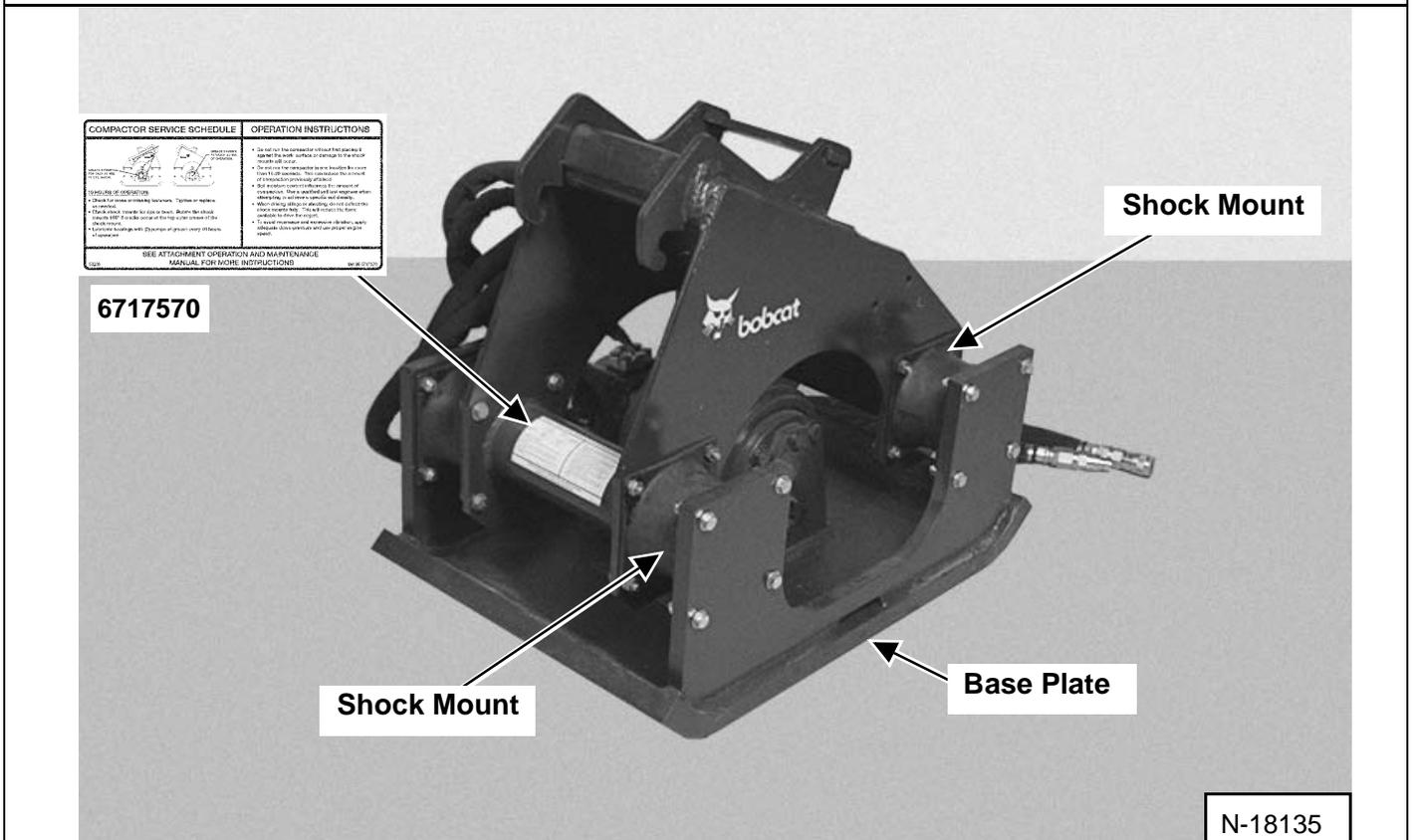
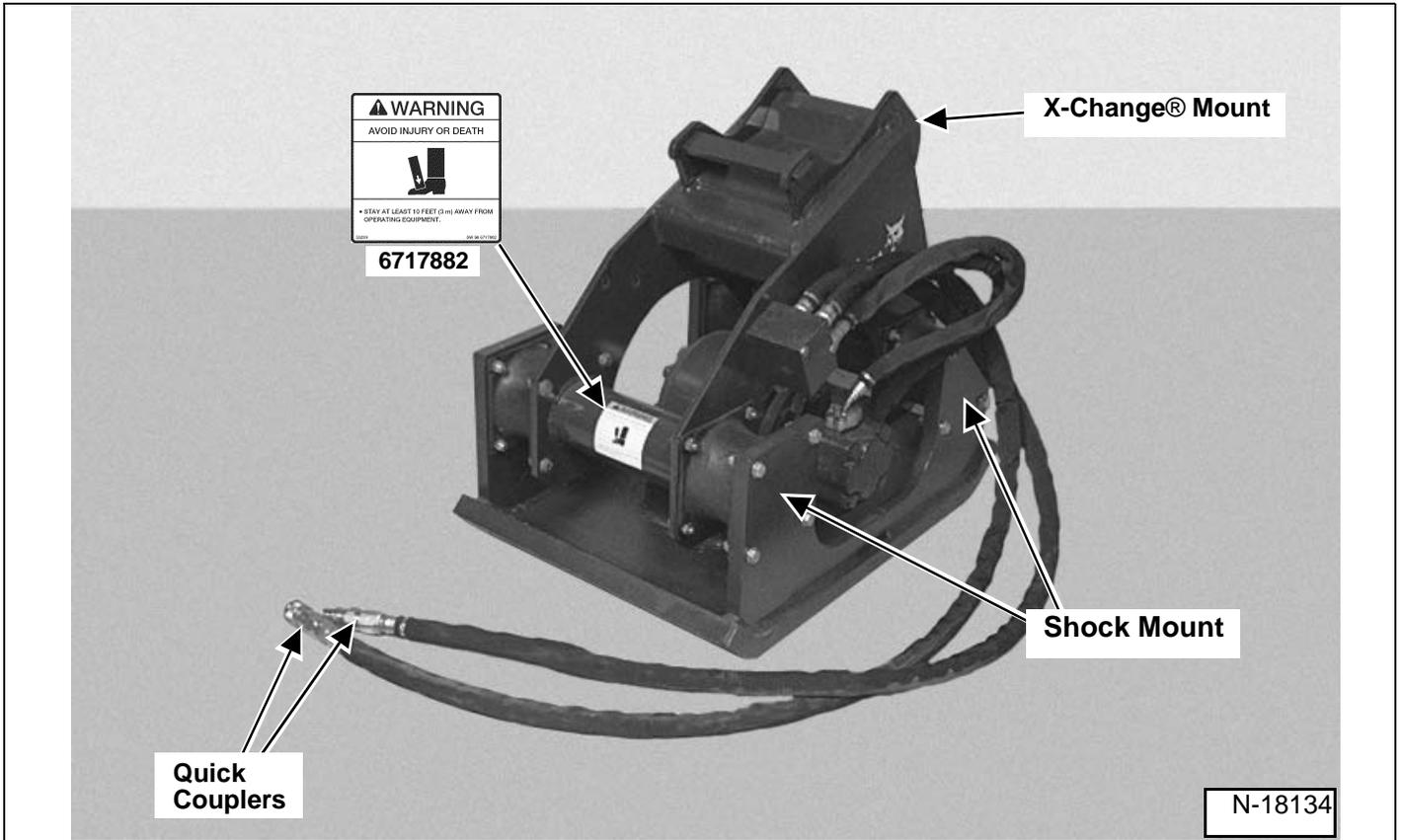
Figure 1





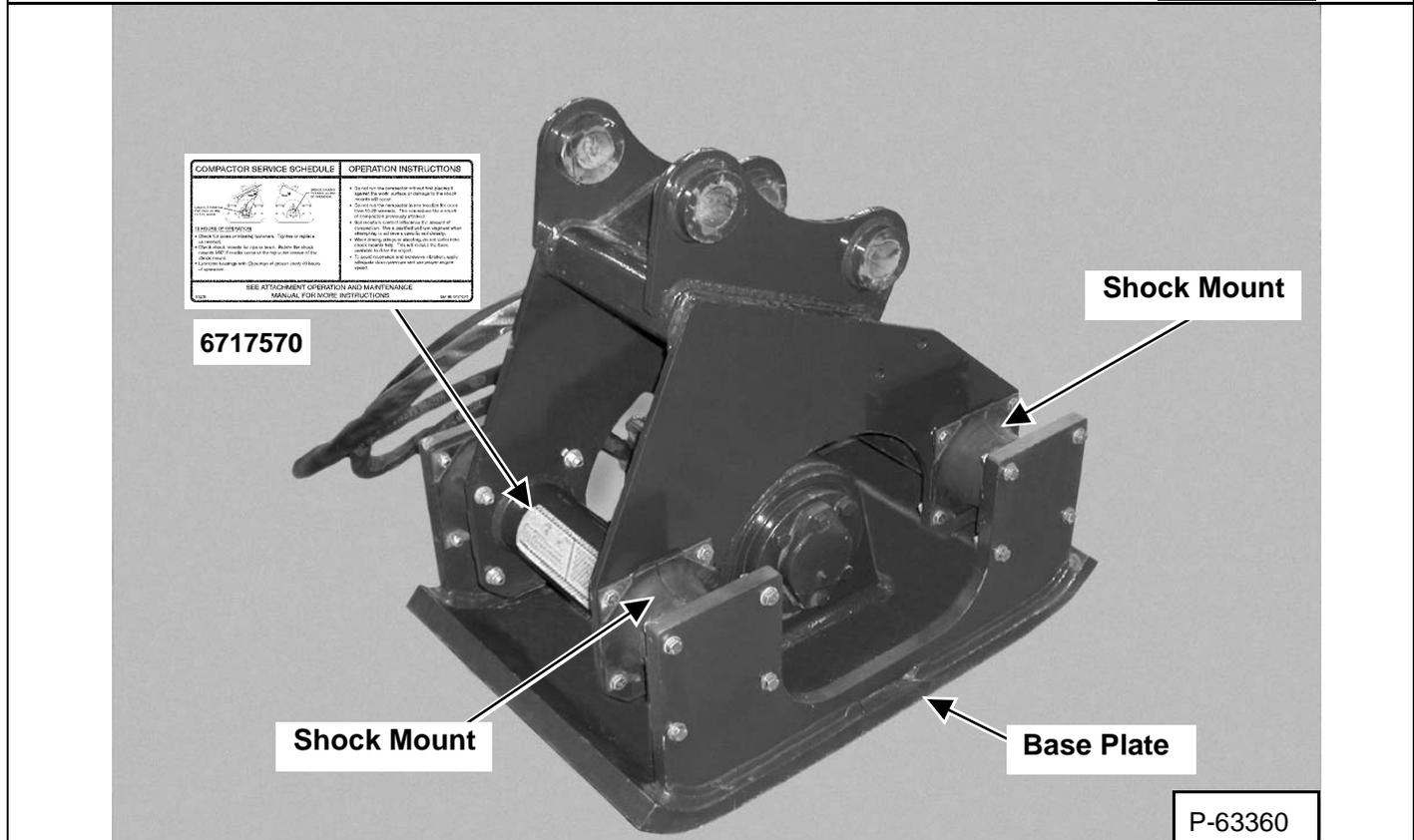
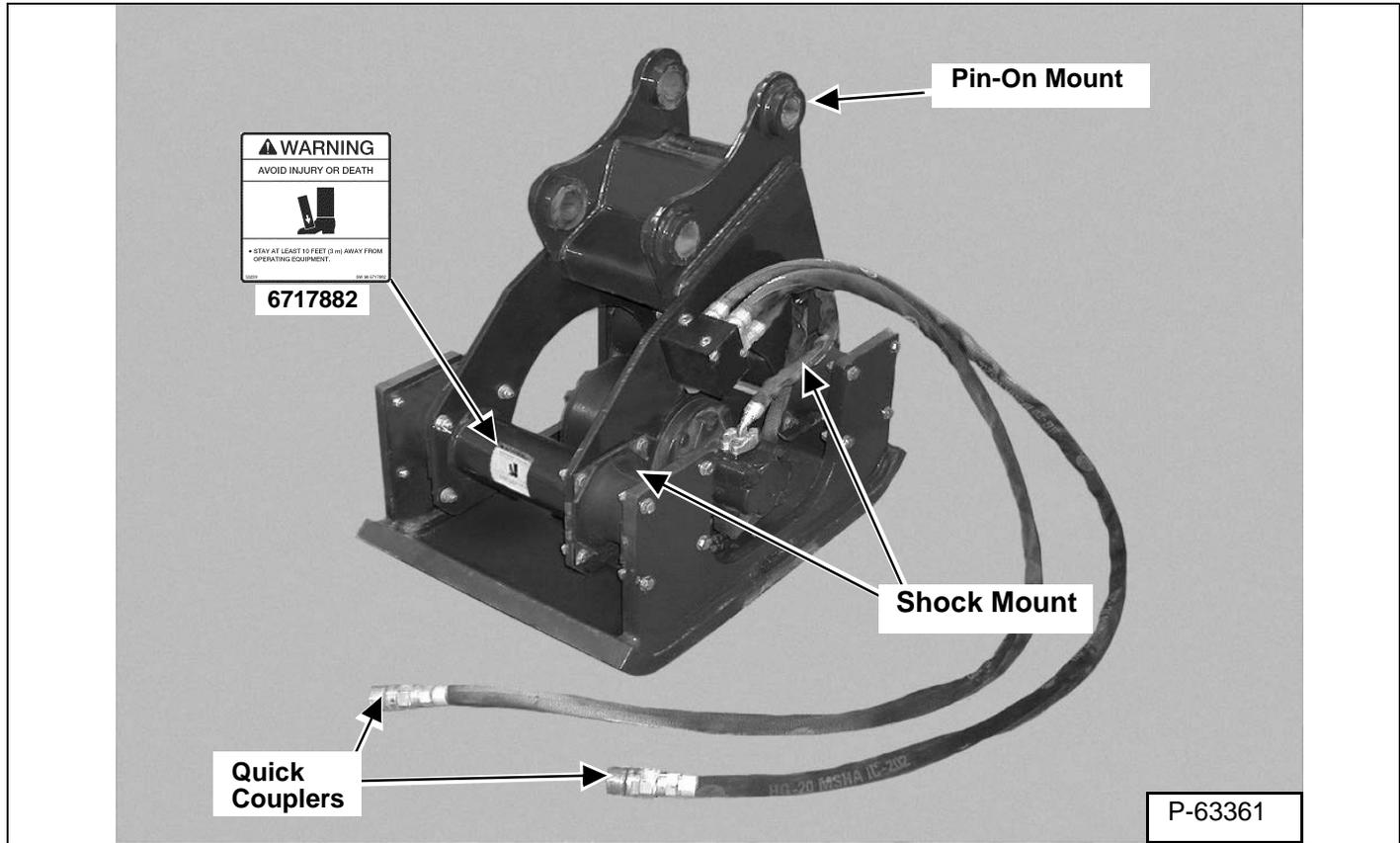
IDENTIFICATION AND MACHINE SIGNS (DECALS) (CONT'D)

PC 60



IDENTIFICATION AND MACHINE SIGNS (DECALS) (CONT'D)

PC 62



## **SAFETY & MAINTENANCE**

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**SAFETY &  
MAINTENANCE**



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## TROUBLESHOOTING



Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903

If the Compactor is not working correctly, check the hydraulic system of the Bobcat® machine thoroughly before making any repairs on the Compactor. Compactor problems can be affected by a hydraulic system that is not operating to specifications.

If the Bobcat® machine operation is found to be correct, use the following troubleshooting chart to locate and correct problems with the Compactor.

PROBLEM	CAUSE	CORRECTION
Compactor does not operate.	No hydraulic flow to the compactor.	Check the hydraulic flow to the compactor.
	Damaged quick couplers or hoses.	Replace quick couplers or hoses.
	Machine fluid reservoir is low.	Add hydraulic fluid to the reservoir on the machine.
	Compactor bearings seized.	Replace bearings.
	Machine main relief valve set too low.	Adjust main relief valve to correct setting.
	Machine hydraulic pump not working.	Check flow of hydraulic pump. Repair or replace as needed.
	Hydraulic flow to compactor in wrong direction (check valve in system).	Change flow direction with auxiliary hydraulic pedal.
Rapid bearing failure.	lack of lubrication	Lubricate both bearings every 40 hours.
Rapid shock mount failure.	Excessive down pressure.	Stretch shock mounts no more than 2.0-2,500 inches (51-64 mm) during operation.
	Cold weather operation.	Warm up according to WARM UP procedure. See Operation and Maintenance Manual.
Failure to achieve required compaction specifications.	Incorrect use.	See OPERATION section of the Operation and Maintenance Manual.
	Moisture/soil content incorrect for specified density.	Correct condition of soil or compactor specifications are not reasonable for conditions.

## INSPECTION

### Daily Inspection

Check for loose or missing fasteners and replace as needed.

Figure 10-10-1

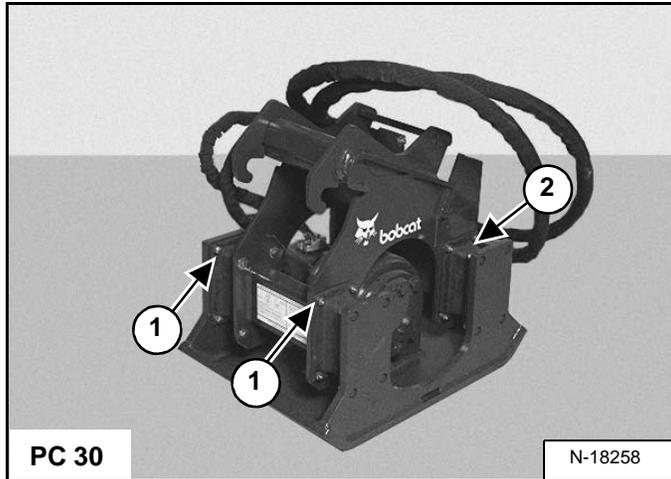
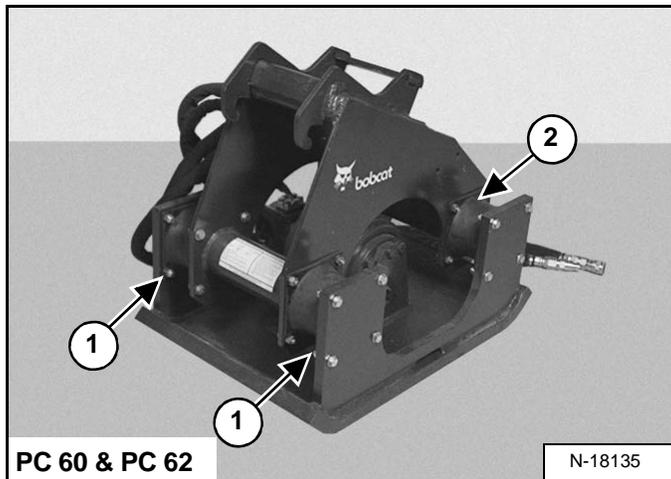


Figure 10-10-2



Check the 4 shock mounts (Item 1) [Figure 10-10-1] & [Figure 10-10-2] for cracks or tears.

Figure 10-10-3

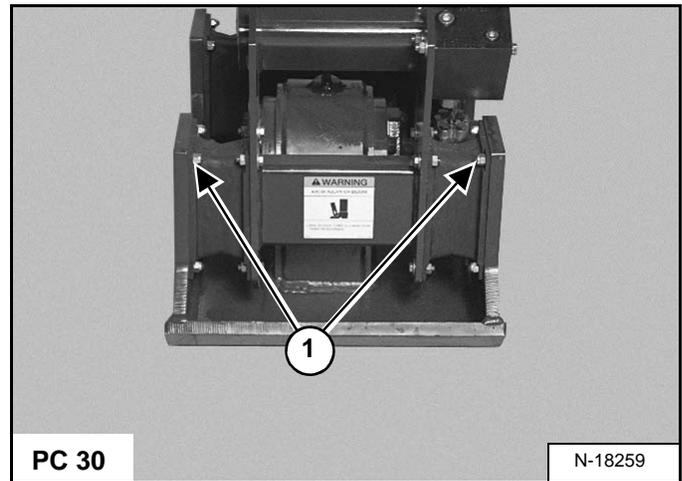
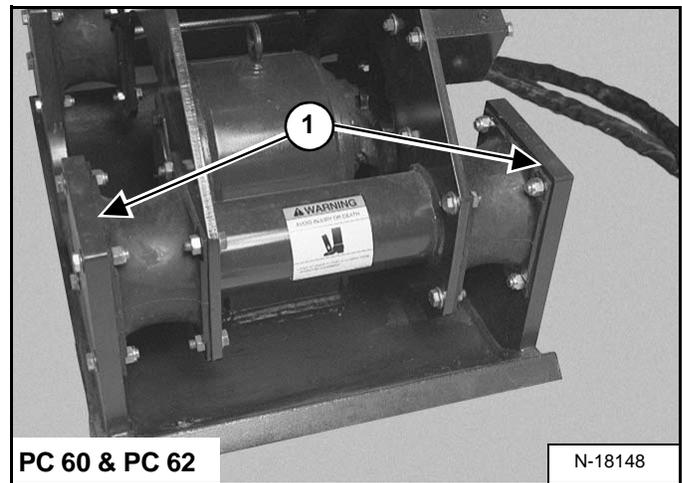


Figure 10-10-4



Rotate the shock mounts 180° when fatigue tears begin to show at the top outer crease (Item 1) [Figure 10-10-3] & [Figure 10-10-4] of the shock mount.

Replace the shock mounts when fatigue tears show on both sides of the mounts.

## INSPECTION (CONT'D)

### Compactor Mount Inspection

Figure 10-10-5

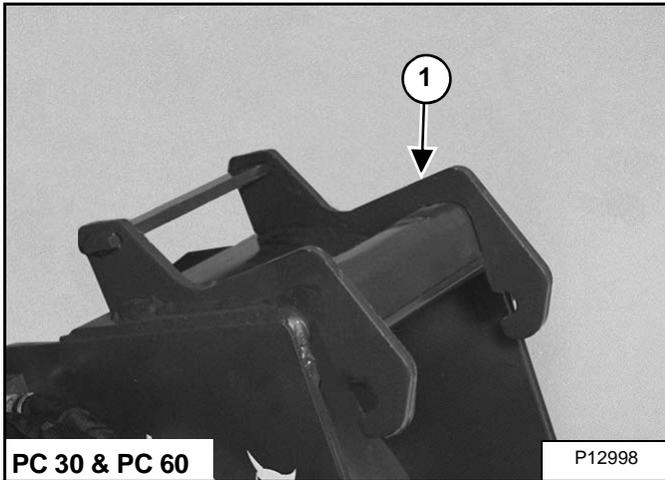
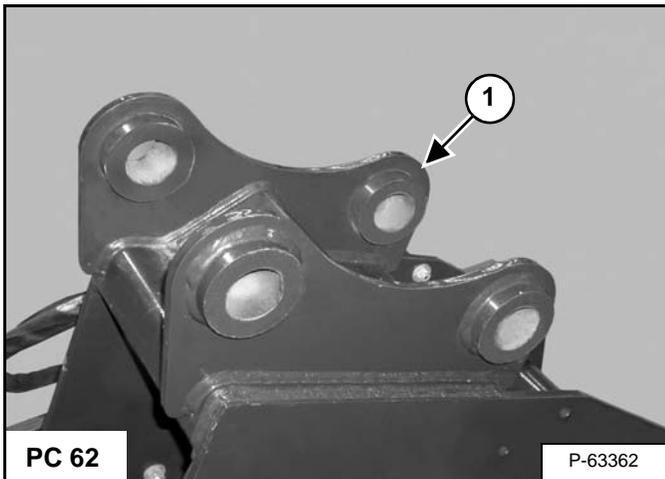


Figure 10-10-6



Inspect the compactor mount (Item 1) [Figure 10-10-5] & [Figure 10-10-6] and all welds on the mount for wear and damage each time the compactor is removed from the machine.

### X-Change® Inspection

Inspect the X-Change® (Item 1) [Figure 10-10-5] for damage or wear. Clean all dirt and debris from the X-Change® latch.

## LUBRICATION

Always use a good quality lithium based multi-purpose grease when lubricating the Plate Compactor.

Figure 10-10-7

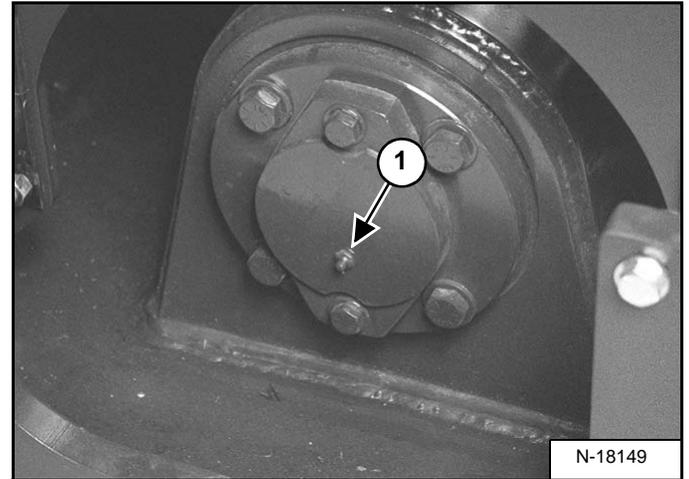
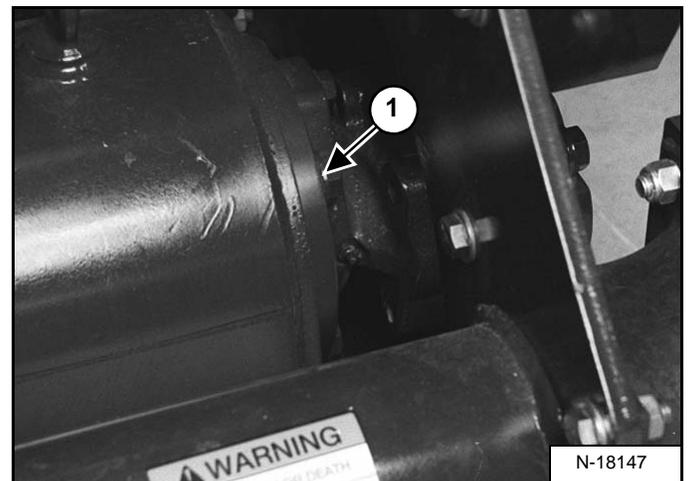


Figure 10-10-8



Lubricate the bearings (Item 1) [Figure 10-10-7] & [Figure 10-10-8] every forty hours.



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## HYDRAULIC SYSTEM

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## HYDRAULIC SYSTEM



**Bobcat®**

## HYDRAULIC CONTROL VALVE (MODEL PC 30/60 & PC 62)

### Removal And Installation

# ! WARNING

Hydraulic fluid escaping under pressure can have sufficient force to enter a person's body by penetrating the skin. This can cause serious injury and possible death if proper medical treatment by a physician familiar with this injury is not received immediately.

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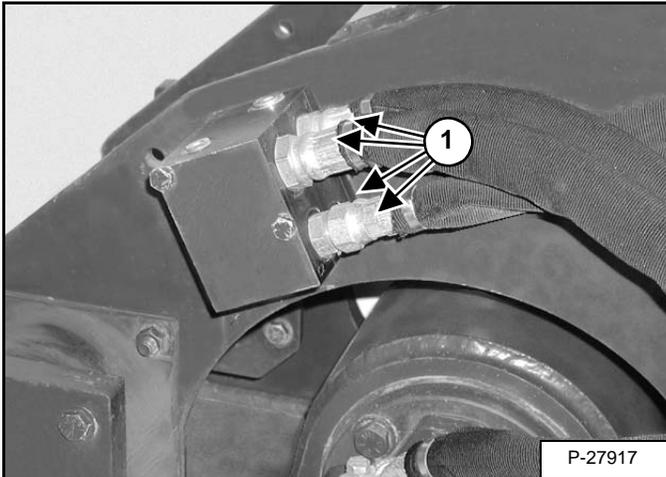
# IMPORTANT

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

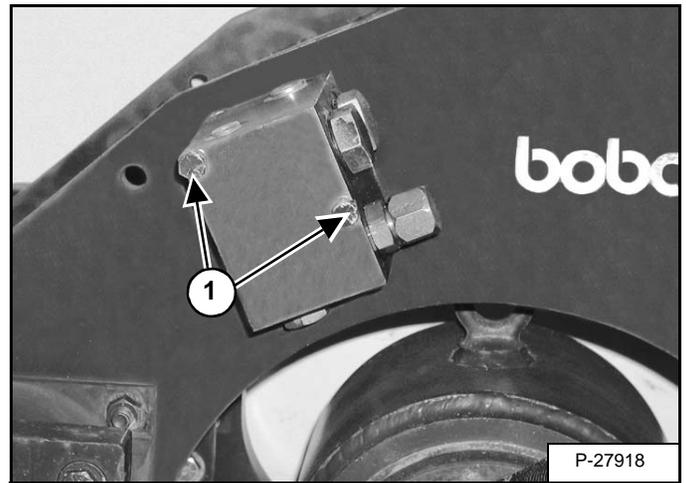
Mark the hoses for correct installation.

Figure 20-10-1



Remove the 4 hoses (Item 1) [Figure 20-10-1].

Figure 20-10-2



Remove the 2 bolts (Item 1) [Figure 20-10-2].

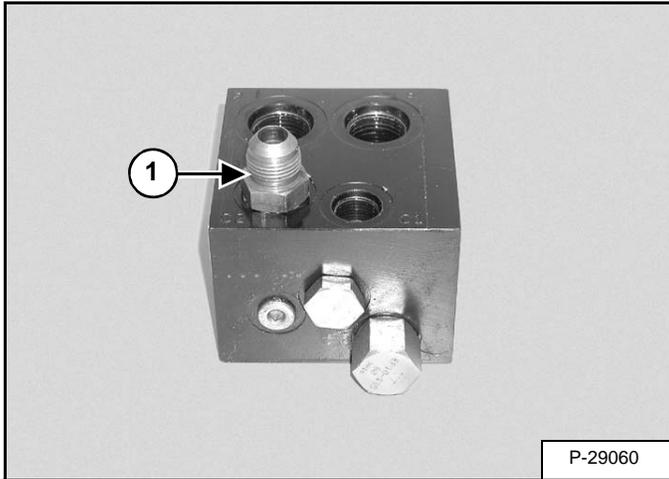
**Installation:** Tighten the bolts to 25-28 ft.-lb. (34-38 N•m) torque.

Remove the control valve.

**HYDRAULIC CONTROL VALVE (MODEL PC 30/60 & PC 62) (CONT'D)**

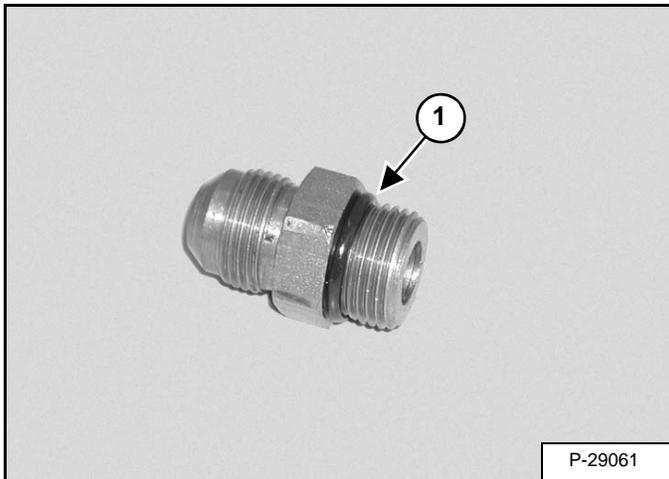
**Disassembly**

**Figure 20-10-3**



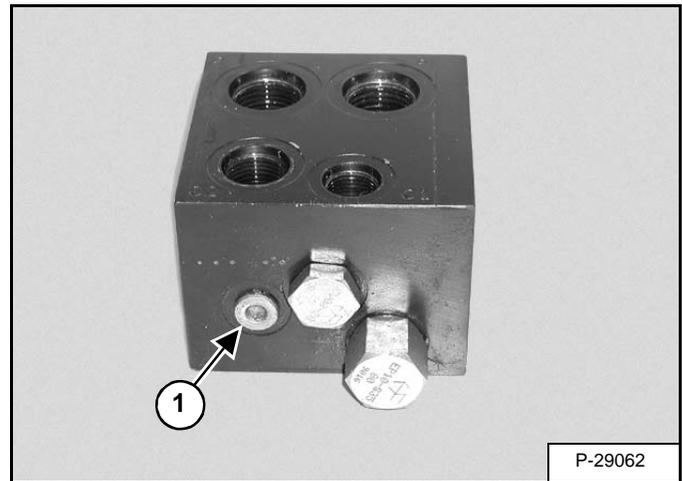
Remove the fitting (Item 1) [Figure 20-10-3].

**Figure 20-10-4**



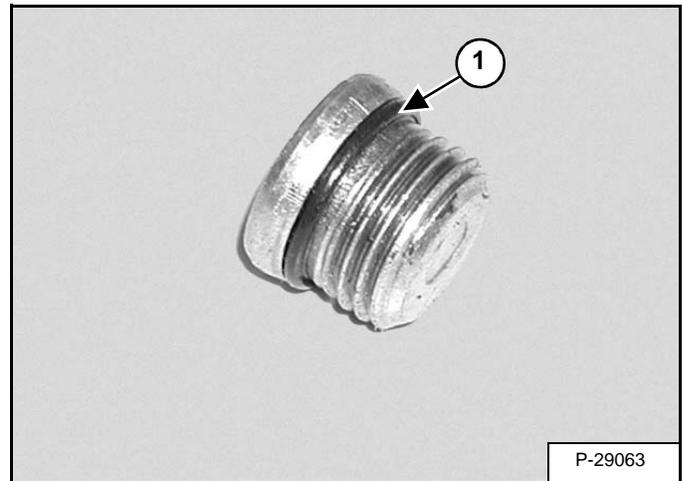
Remove the O-ring (Item 1) [Figure 20-10-4] from the fitting.

**Figure 20-10-5**



Remove the plug (Item 1) [Figure 20-10-5].

**Figure 20-10-6**

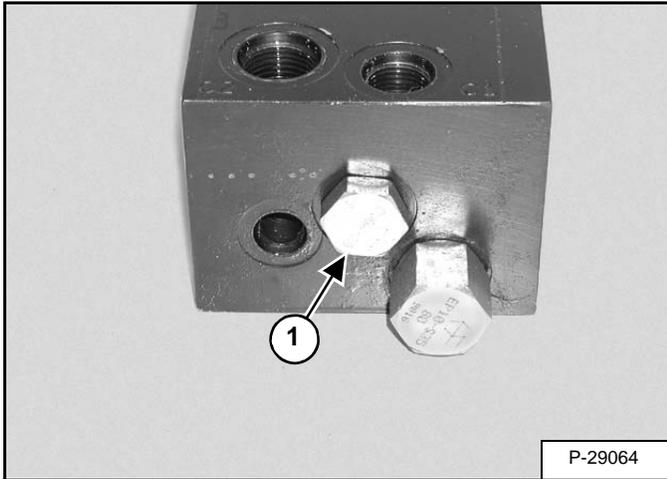


Remove the O-ring (Item 1) [Figure 20-10-6].

**HYDRAULIC CONTROL VALVE (MODEL PC 30/60 & PC 62) (CONT'D)**

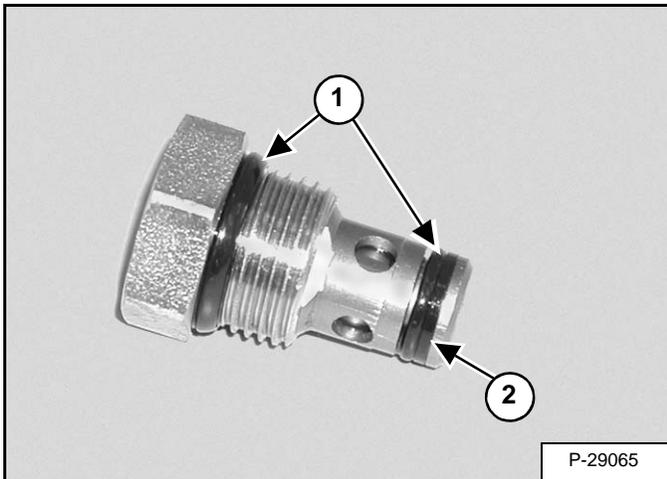
**Disassembly (Cont'd)**

**Figure 20-10-7**



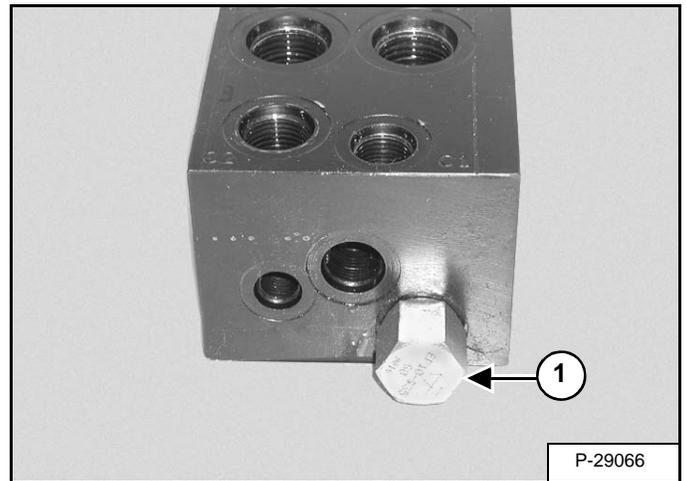
Remove the check valve (Item 1) [Figure 20-10-7].

**Figure 20-10-8**



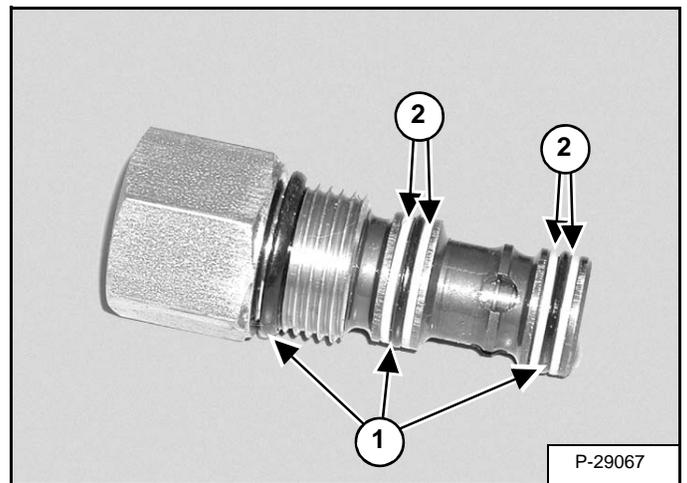
Remove the O-rings (Item 1) and backup ring (Item 2) [Figure 20-10-8] from the check valve.

**Figure 20-10-9**



Remove the flow control valve (Item 1) [Figure 20-10-9].

**Figure 20-10-10**

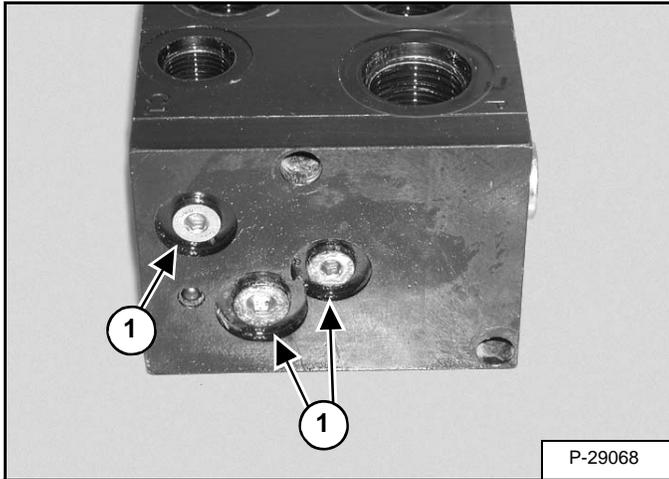


Remove the O-rings (Item 1) and backup rings (Item 2) [Figure 20-10-10] from the flow control valve.

HYDRAULIC CONTROL VALVE (MODEL PC 30/60 & PC 62) (CONT'D)

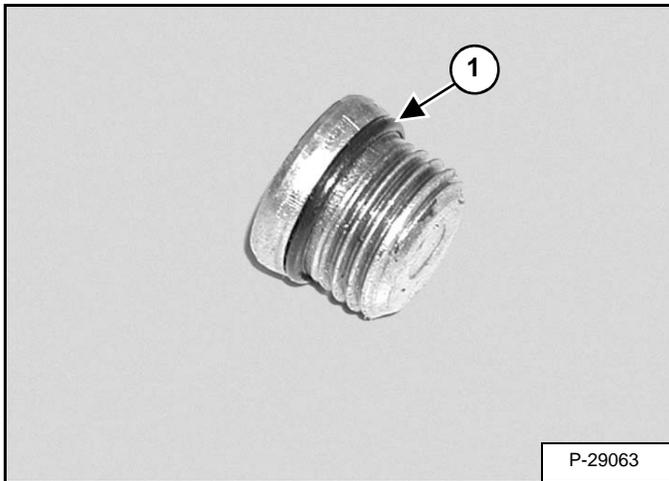
Disassembly (Cont'd)

Figure 20-10-11



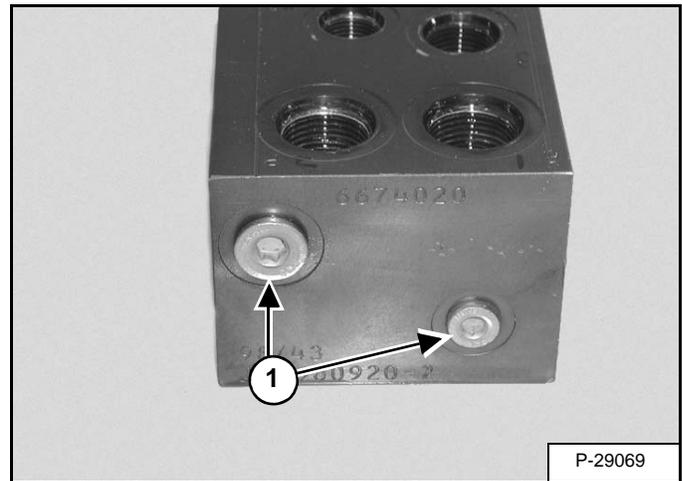
Remove the plugs (Item 1) [Figure 20-10-11].

Figure 20-10-12



Remove the O-ring (Item 1) [Figure 20-10-12] from the plugs.

Figure 20-10-13



Remove the plugs (Item 1) [Figure 20-10-13].

Remove the O-ring (Item 1) [Figure 20-10-12] from the plugs.

## HYDRAULIC CONTROL VALVE (MODEL PC 30/60 & PC 62) (CONT'D)

### Assembly

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

Check the components for wear or scratches.

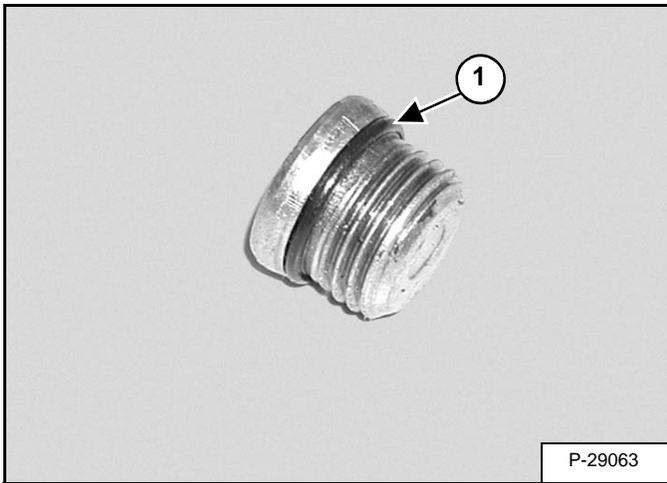
Check that the components are not loose in their ports.

Replace the parts as needed.

Use new O-rings and backup rings.

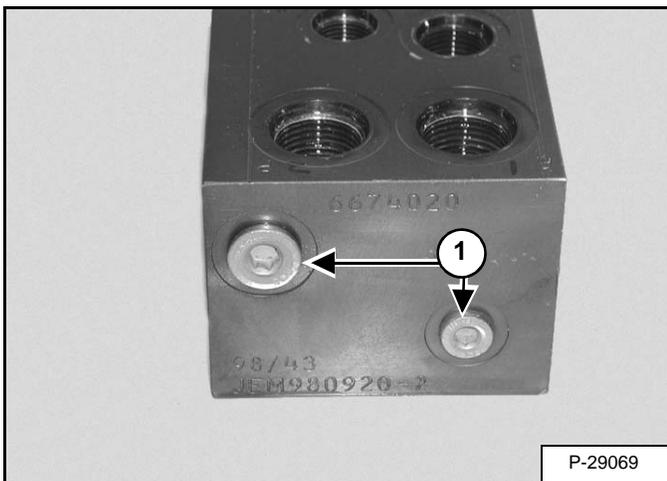
Apply hydraulic oil to the O-rings and backup rings during assembly.

**Figure 20-10-14**



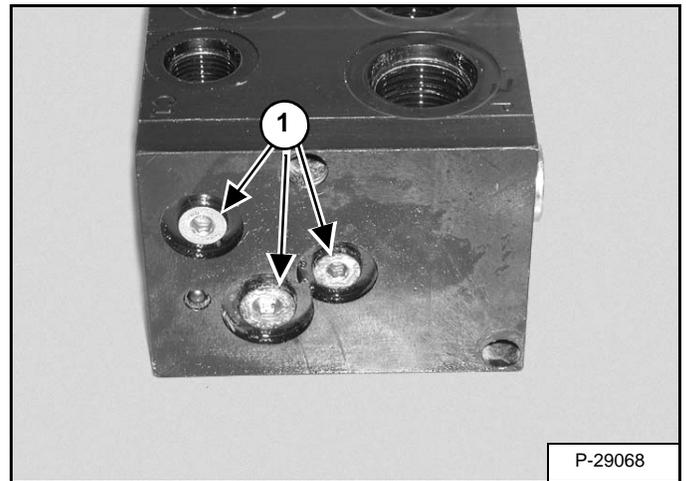
Install the O-ring (Item 1) [Figure 20-10-14] on the plugs.

**Figure 20-10-15**



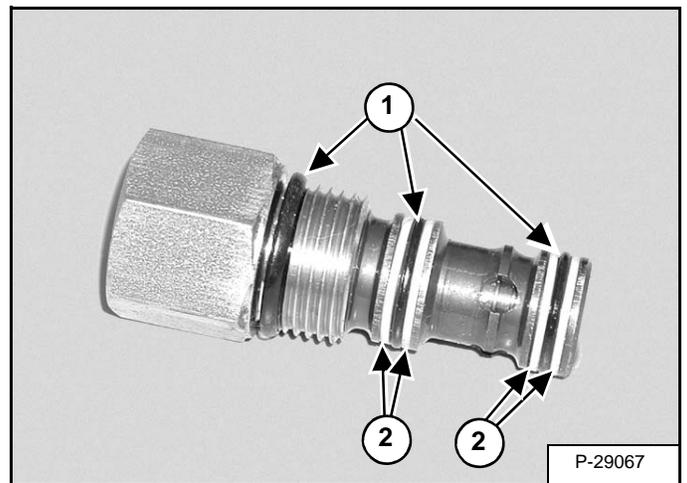
Install the plugs (Item 1) [Figure 20-10-15].

**Figure 20-10-16**



Install the plugs (Item 1) [Figure 20-10-16].

**Figure 20-10-17**

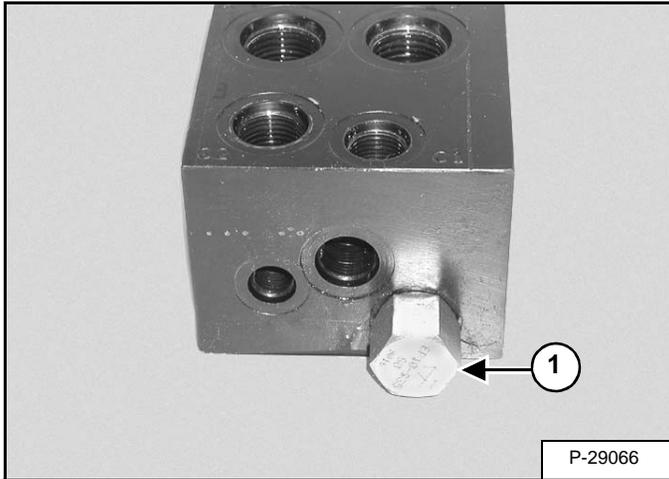


Install the O-rings (Item 1) and backup rings (Item 2) [Figure 20-10-17] on the flow control valve.

HYDRAULIC CONTROL VALVE (MODEL PC 30/60 & PC 62) (CONT'D)

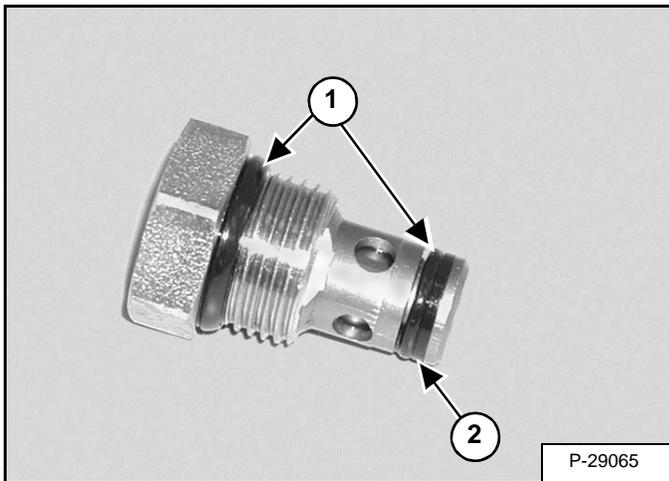
Assembly (Cont'd)

Figure 20-10-18



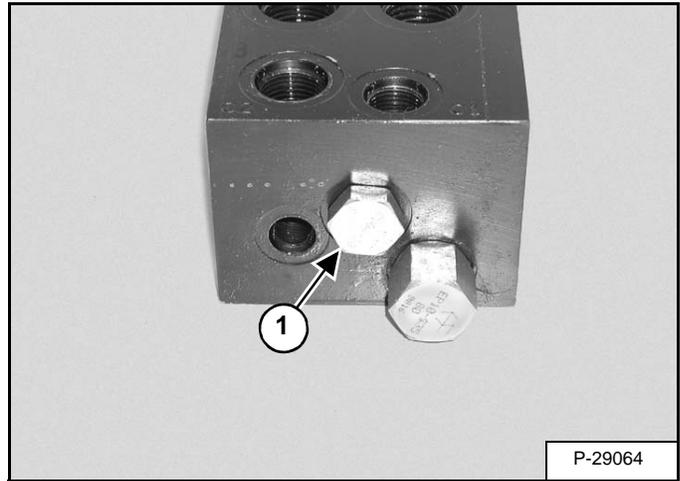
Install the flow control valve (Item 1) [Figure 20-10-18] and tighten to 20 ft.-lb. (27 N•m) torque.

Figure 20-10-19



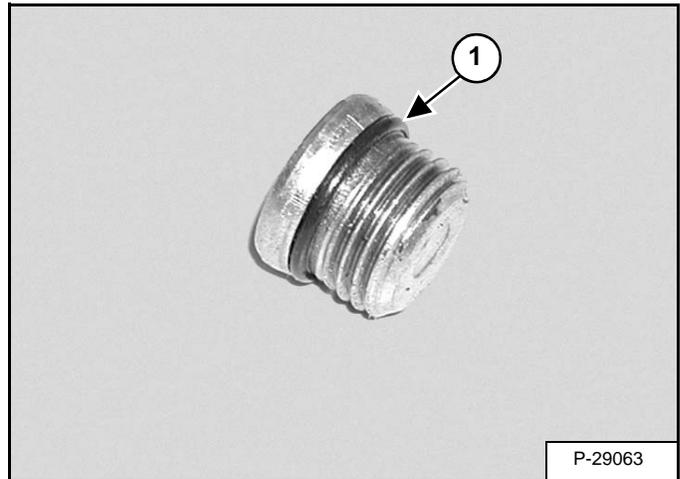
Install the O-rings (Item 1) and backup ring (Item 2) [Figure 20-10-19] on the check valve.

Figure 20-10-20



Install the check valve (Item 1) [Figure 20-10-20] and tighten to 25 ft.-lb. (34 N•m) torque.

Figure 20-10-21

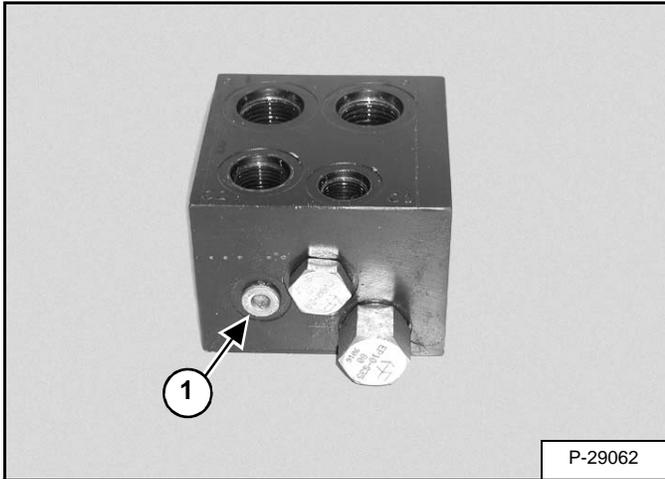


Install the O-ring (Item 1) [Figure 20-10-21] on the plug.

**HYDRAULIC CONTROL VALVE (MODEL PC 30/60 & PC 62) (CONT'D)**

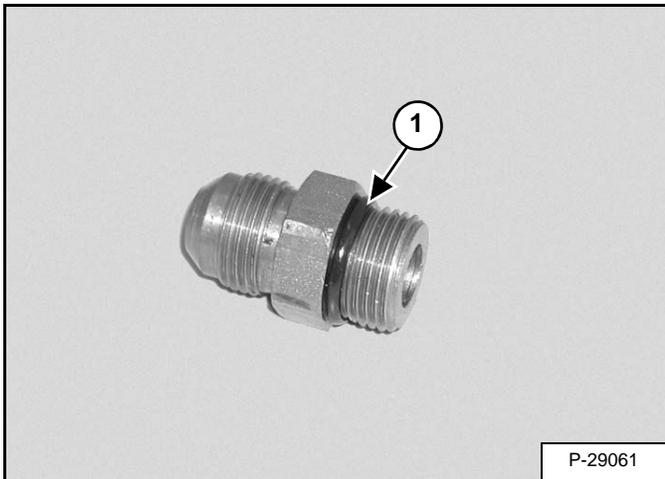
**Assembly (Cont'd)**

**Figure 20-10-22**



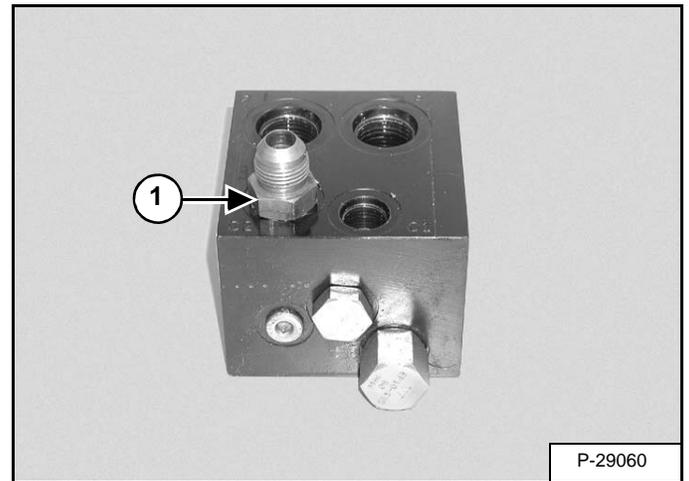
Install the plug (Item 1) [Figure 20-10-22].

**Figure 20-10-23**



Install the O-ring (Item 1) [Figure 20-10-23] on the fitting.

**Figure 20-10-24**



Install the fitting (Item 1) [Figure 20-10-24].



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## HYDRAULIC MOTOR (MODEL PC 30/60 & PC 62)

### Removal And Installation

# ! WARNING

Hydraulic fluid escaping under pressure can have sufficient force to enter a person's body by penetrating the skin. This can cause serious injury and possible death if proper medical treatment by a physician familiar with this injury is not received immediately.

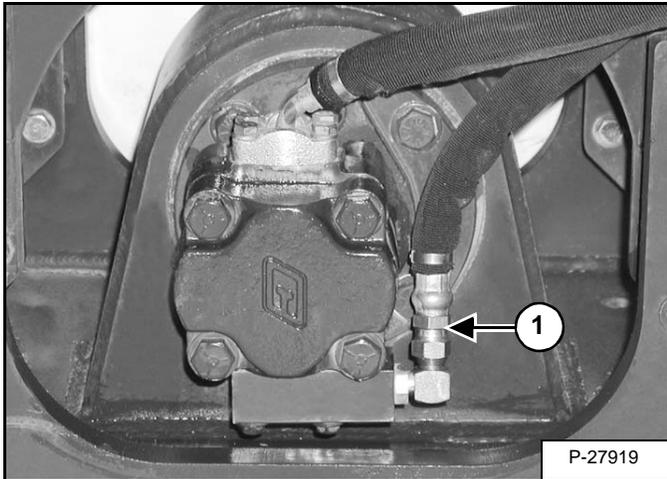
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# IMPORTANT

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.

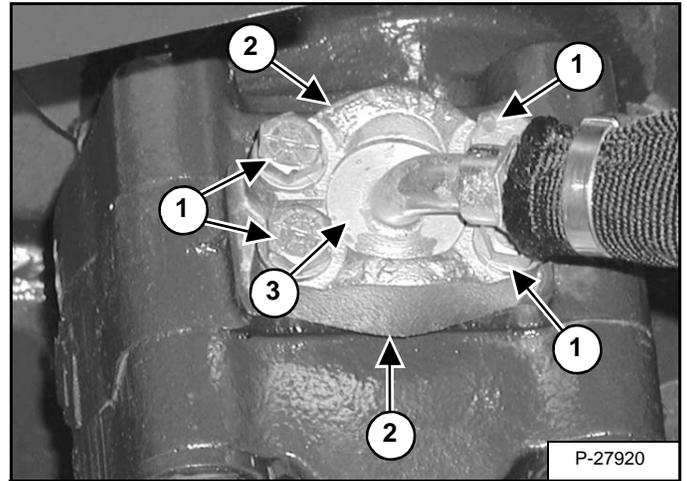
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Figure 20-20-1



Remove the hose (Item 1) [Figure 20-20-1].

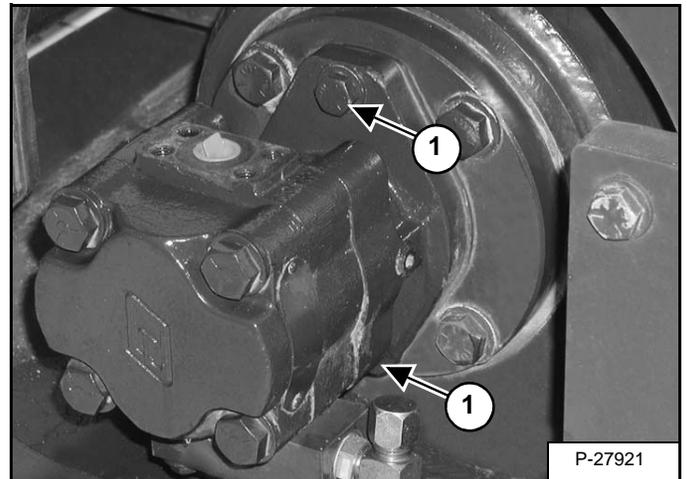
Figure 20-20-2



Remove the bolts (Item 1) from the clamps (Item 2) and remove the hose (Item 3) [Figure 20-20-2].

**Installation:** Tighten the bolts to 35-40 ft.-lb. (47-54 N•m) torque.

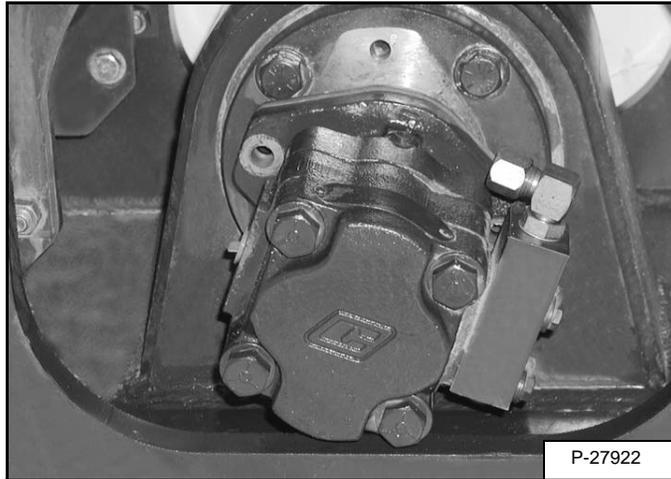
Figure 20-20-3



Remove the 2 bolts (Item 1) [Figure 20-20-3] from the mount flange.

**Installation:** Tighten the bolts to 90-100 ft.-lb. (122-136 N•m) torque.

Figure 20-20-4



Turn the motor as shown in **[Figure 20-20-4]** and remove the motor.