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Loctite Product Chart	

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Section

4001

ELECTRICAL SPECIFICATIONS AND TROUBLESHOOTING - 570LXT SERIES 2

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94 Loader Lever Differential Lock Engage Switch

Check Points	Reading	Possible Cause of Bad Readings
Terminal for wire 10 to ground	Continuity	Bad ground circuit.
NOTE: *Turn the key switch to ON.*		
Terminal for wire 7 to ground	Continuity	Check the circuit between the loader lever differential lock engage switch and loader lever differential lock enable relay (93). Also check the loader lever differential lock enable relay (93).
NOTE: *Disconnect the wires from the loader lever differential lock engage switch. Make sure the loader lever differential lock engage switch is in the DISENGAGED position.*		
Between the terminals of the loader lever differential lock engage switch	Open	Bad loader lever differential lock engage switch.
NOTE: *Have another person hold the loader lever differential lock engage switch in the ENGAGED position*		
Between the terminals of the loader lever differential lock engage switch.	Continuity	Bad loader lever differential lock engage switch.

95 Differential Lock Solenoid

Check Points	Reading	Possible Cause of Bad Readings
Terminal for wire 30 to ground	Continuity	Bad ground circuit.
NOTE: *Turn the key switch to ON. Hold differential lock engage switch in the ENGAGED position.*		
Terminal for wire 25S to ground	12 volts	Check the circuit between the differential lock solenoid and the differential lock engage switch (92). Check the differential lock engage switch (92). Also check the diode, see diode check on page 50.
NOTE: *With the key switch in the ON position. Hold loader lever differential lock engage switch in the ENGAGED position.*		
Terminal for wire 25S to ground	12 volts	Check the circuit between the differential lock solenoid and the loader lever differential lock enable relay (93). Check the loader lever differential lock enable relay (93). Also check the diode, see diode check on page 50.

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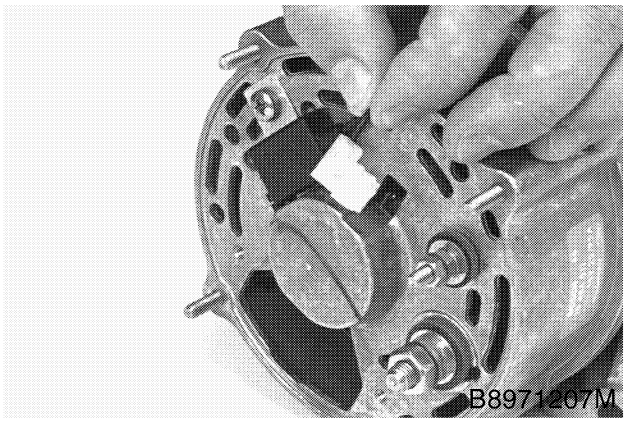
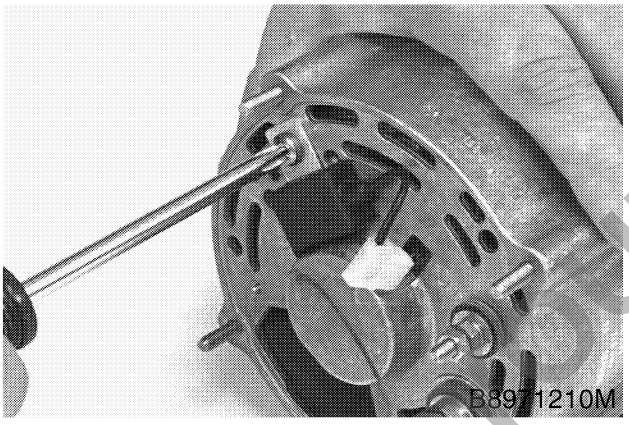
STEP 7



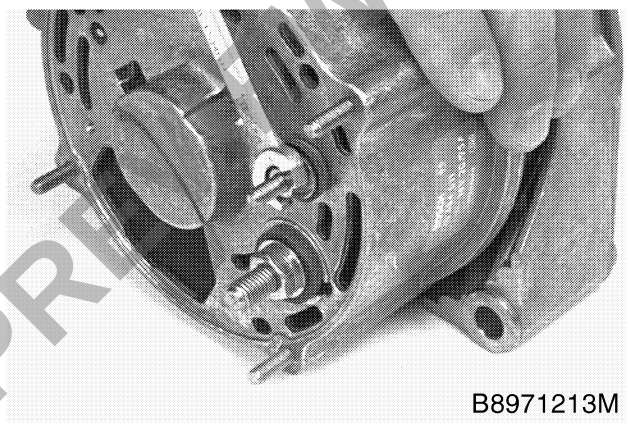
Disconnect the lead for the capacitor.

STEP 8



Loosen and remove the screw and remove the capacitor.

STEP 9

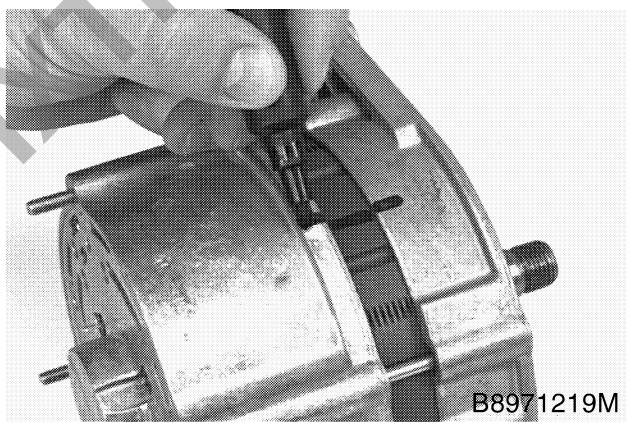


Loosen and remove the nut, flat washer, and fiber washers from the D+ terminal.

STEP 10

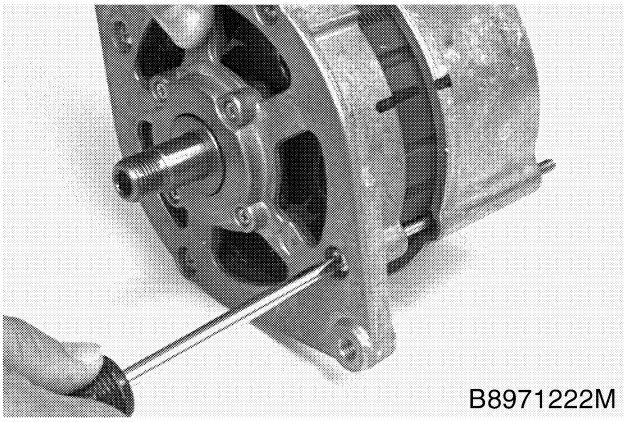
Loosen and remove the nut, flat washer, and fiber washers from the B+ terminal.

STEP 11



Make an alignment mark on the cover, the stator, and the housing.

STEP 12



Loosen and remove the screws that fasten the cover, stator, and housing together.

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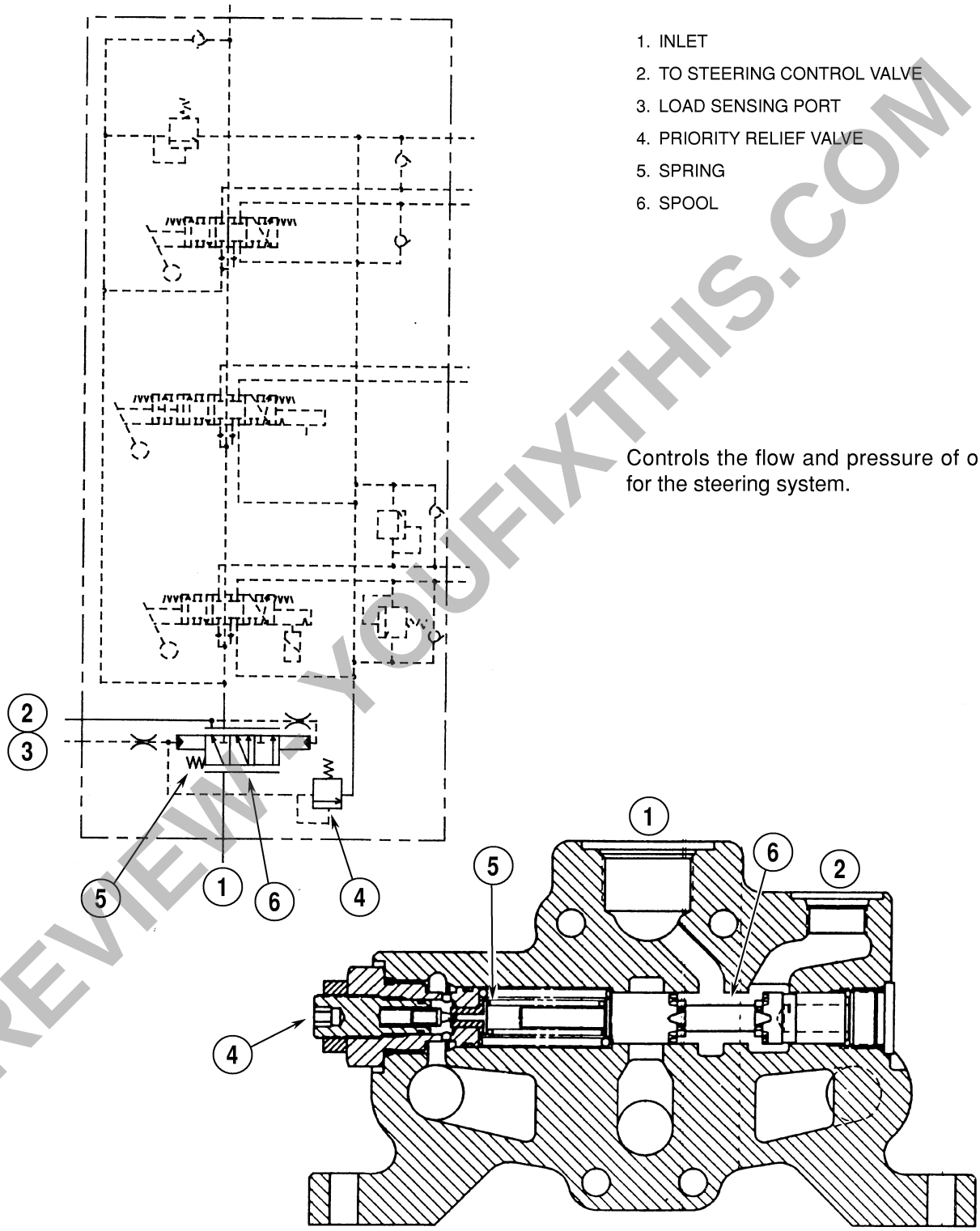
❷ INLET SECTION OF LOADER CONTROL VALVE AND FLOW CONTROL VALVE



Controls the flow and pressure of oil for the steering system.

B9409056J

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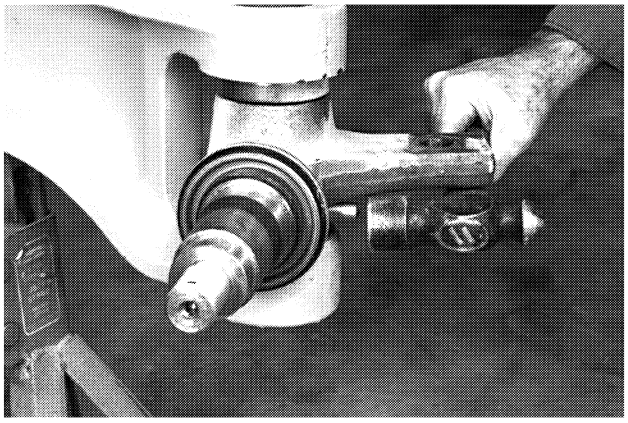
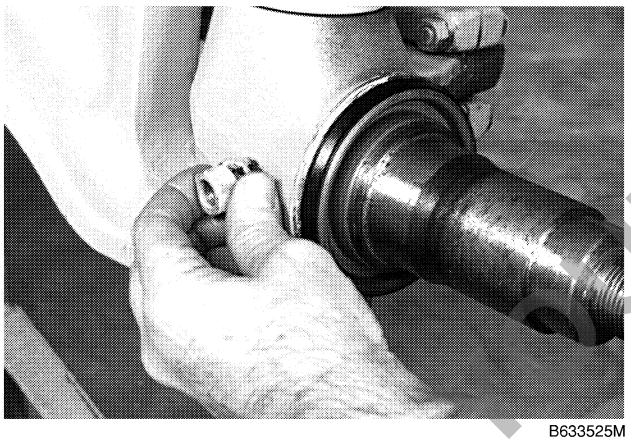
STEP 68



B634026M

Install the lock pin.

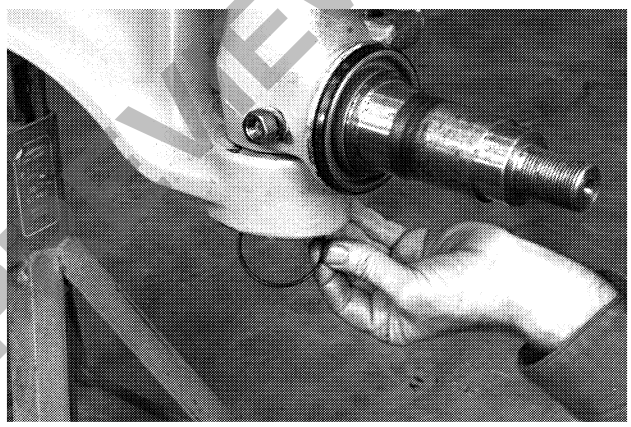
STEP 69



B633525M

Install the lock washer and the nut but do not tighten the nut now.

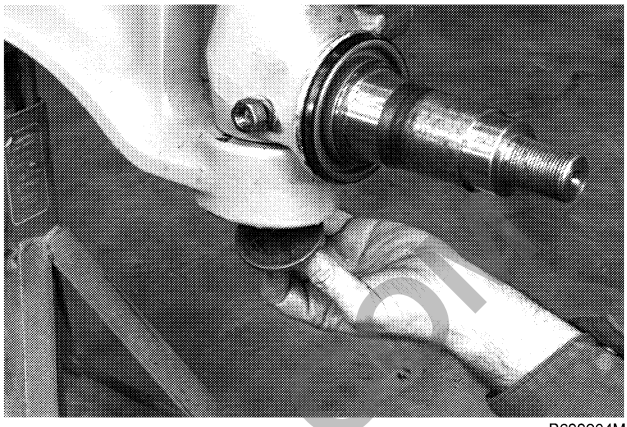
STEP 70



B633902M

Install a new O-ring in the bottom boss. Use grease to hold the O-ring in position.

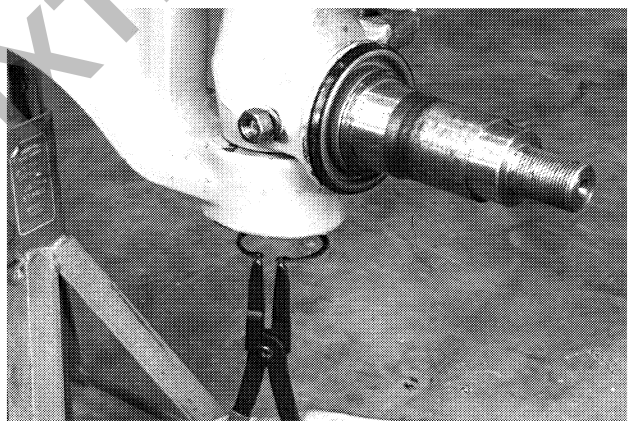
STEP 71



B633904M

Apply a small amount of grease to a spacer and install the spacer so that the grease fitting is toward the center of the machine.

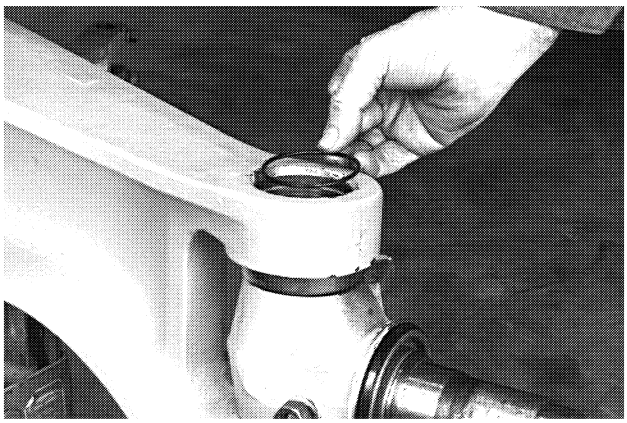
STEP 72



B633907M

Install the snap ring. Hit the spacer and the snap ring to make sure that the snap ring is in the groove.

STEP 73



B633909M

Install a new O-ring in the top boss.

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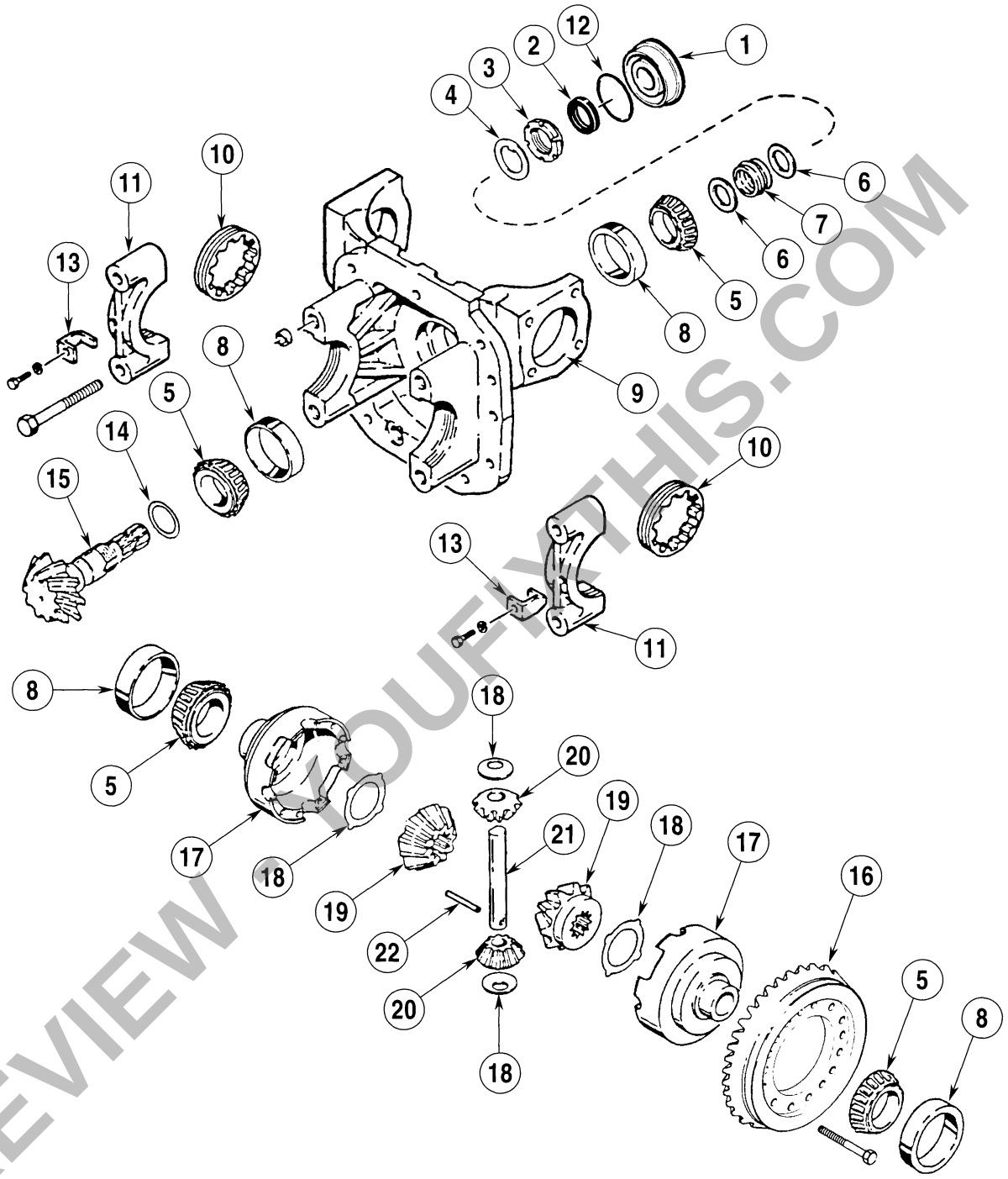

BS98D118

1 COVER	7 SPACER	13 LOCK	18 THRUST WASHER
2 SEAL	8 BEARING CUP	14 SHIM	19 SIDE GEAR
3 PINION NUT	9 DIFFERENTIAL CARRIER	15 PINION GEAR	20 PINION GEAR
4 WASHER	10 ADJUSTING RING	16 RING GEAR	21 PINION SHAFT
5 BEARING	11 BEARING CAP	17 CASE HALF	22 DOWEL PIN
6 FLAT WASHER	12 O-RING		

EXPOLDED VIEW OF DIFFERENTIAL FOR STANDARD (CARRARO) TRANSMISSION

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Loss of Power

Is oil level correct? Add oil as required. Is there still a problem?

NO → Troubleshooting complete. Find cause for loss of oil.

YES ↓

Is there a build up of mud or other foreign material on inside of wheel wells or along drive train? Clean or remove material. Is there still a problem?

NO → Troubleshooting complete.

YES ↓

Do stall test according to instructions in Section 2002. Is the engine good.

NO → Repair engine as required.

YES ↓

Check regulated clutch pressure. See pages 15 and 16. Is the pressure as specified on page 3?

NO → Inspect input shaft sealing rings and clutch piston seals. Also inspect forward and reverse clutch friction discs. See Section 6007 to repair as required.

YES ↓

Check torque converter for damage. See Section 6007 to repair or replace as required.

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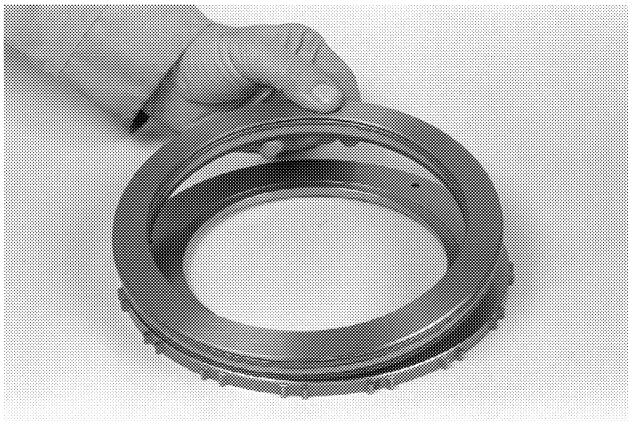
STEP 154



BK98J307

Remove the piston from the inner reaction plate.

STEP 155

BK98J306

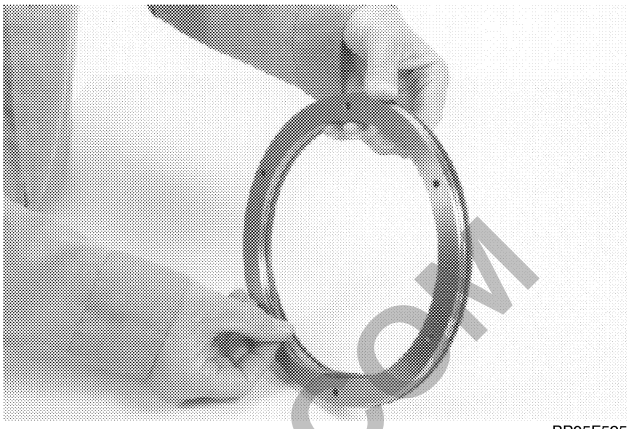
Remove the isolator ring from the piston.

STEP 156

BP95F524

Remove the O-ring from the outside of the piston.

STEP 157

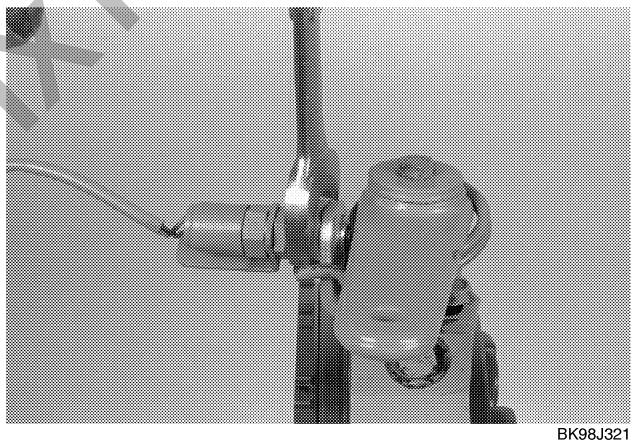


BP95F525

Remove the O-ring from the inside of the piston.

NOTE: *The following photos are for reference only. The photos show the inner reaction plate, isolator ring and piston installed. The procedure is the same.*

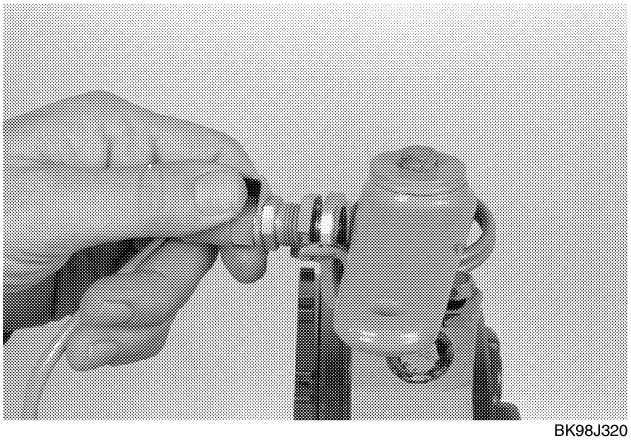
STEP 158



BK98J321

Loosen the jam nut on the brake switch.

STEP 159



BK98J320

Remove the brake switch.

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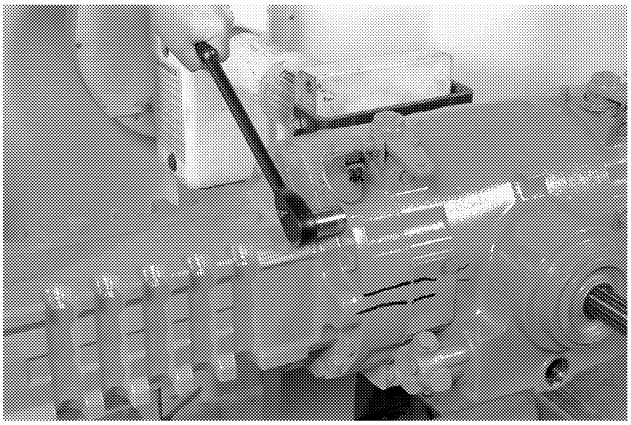
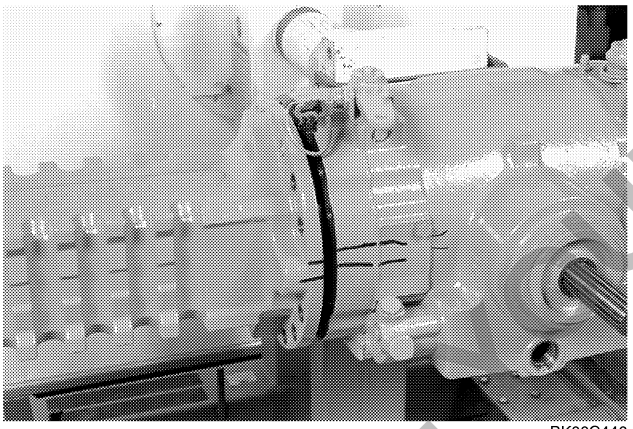
STEP 11



BK00C442

Loosen and remove all but one top cap screw. Slowly loosen the top cap screw. Adjust the lifting equipment as required to balance the axle housing. Remove the cap screw.

STEP 12

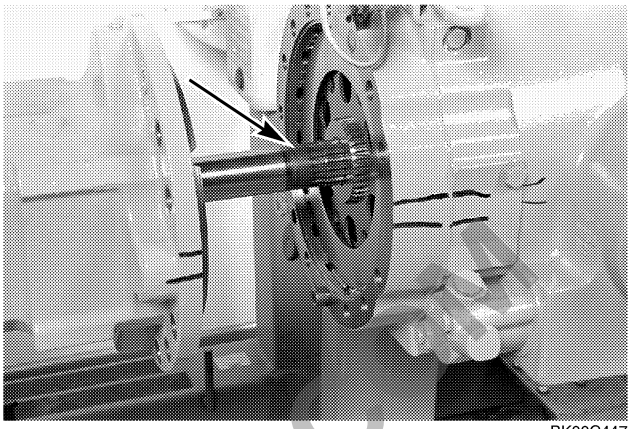


BK00C446

Keep the axle housing level and move the axle housing away from the brake assembly.

NOTE: *If possible, the axle shaft should stay with the center section. The axle shaft will keep the brake plates and discs together. Hold the axle shaft in place as the axle housing is removed from the center section. If required, carefully move the axle housing back and forth as the axle housing is removed.*

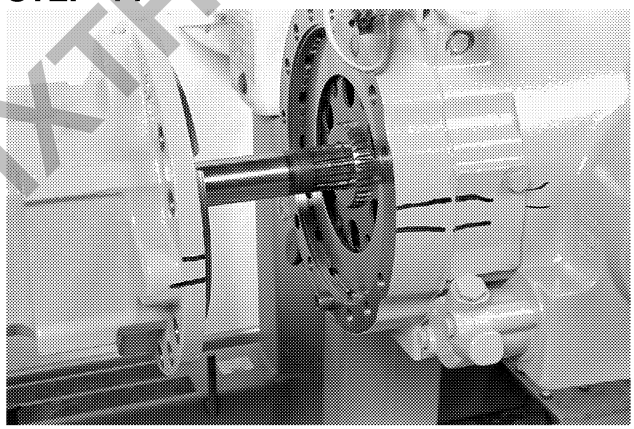
STEP 13



BK00C447

Make sure the axle shaft stays with the center section. If required hold the axle shaft in place as the axle housing is removed.

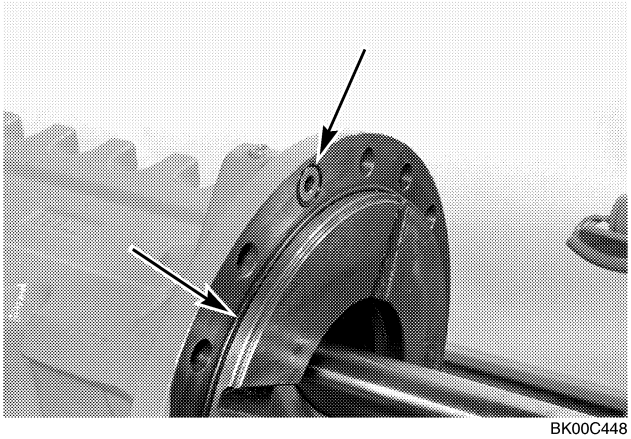
STEP 14



BK00C447

Keep the axle housing level and move the axle housing away from the brake assembly. Remove the axle housing.

STEP 15



BK00C448

After removing the axle housing from the shaft, remove and discard the large and the small O-rings from the housing.

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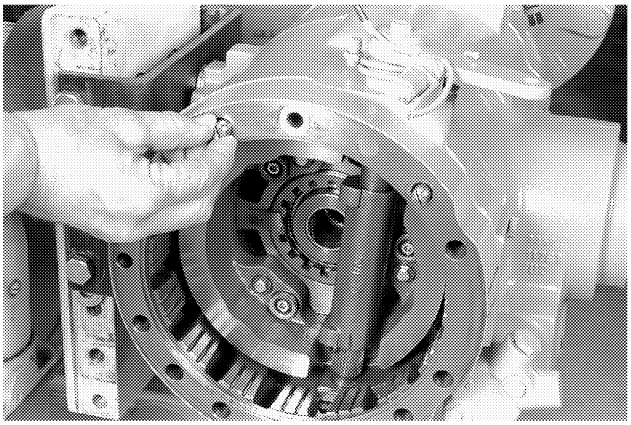
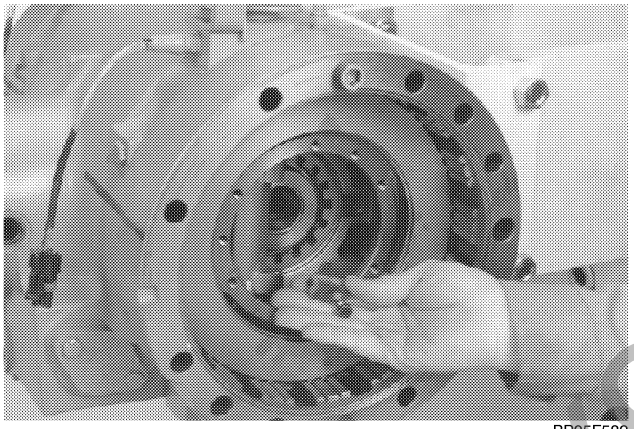
STEP 202



BK00C461

Remove the guide pins from the center section.

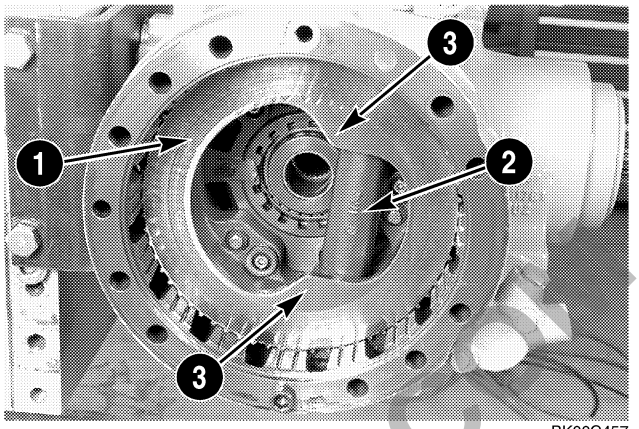
STEP 203



BP95F582

Install the adjusting ring lock and cap screw on the adjusting ring on both sides of the center section. Tighten the cap screw to 13 Nm (114 pound-inches).

STEP 204

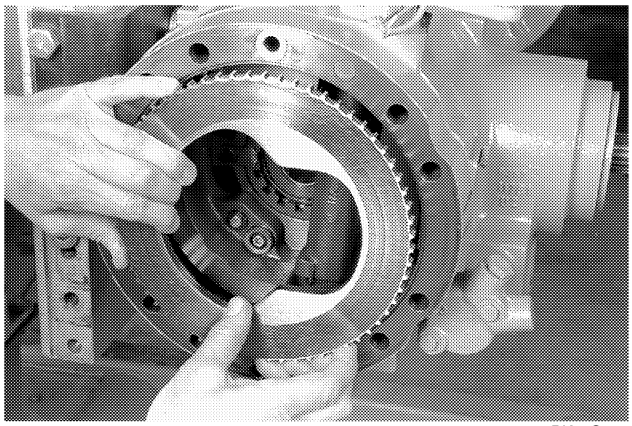


BK00C457

1. PISTON PLATE 2. CAM 3. LOBES

IMPORTANT: *The lobes on the side of plate that bears against the park brake cam is induction hardened. It will be stamped with a K or C and the induction hardened zone will be visible on the edge of the lobes. Before installing the piston plate (1) note the orientation of the lobes (3) on the piston plate (1) in relation to the lobes on the cam (2). When the brakes are applied and the cam (2) rotates, the lobes on the cam (2) must contact the lobes (3) on the piston plate (1). The piston plate (1) must be installed in the correct position during re-assembly.*

STEP 205



BK00C459

Install the piston plate.

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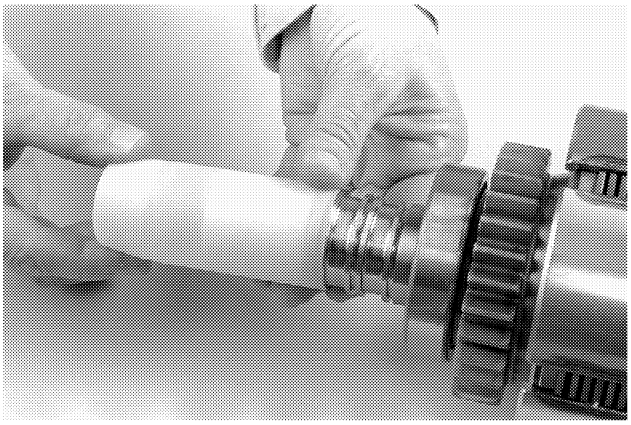
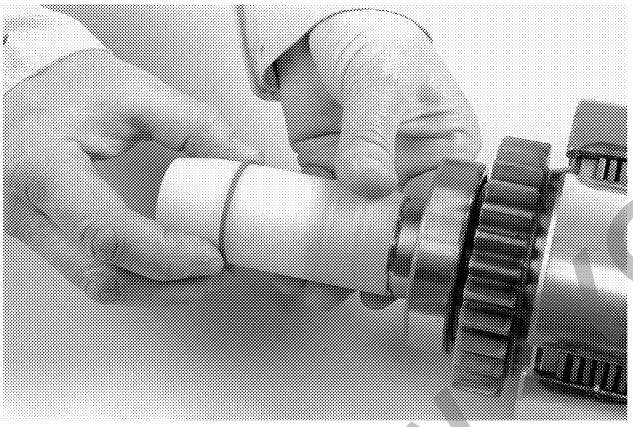
STEP 161



BK00E033

Slide the CAS2771-2 expander/protector and the spacer onto the shaft. The expander/protector will stop in the correct position to install the sealing ring in the groove.

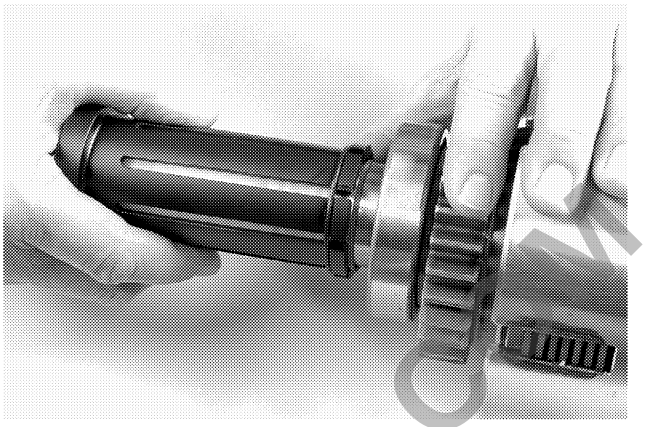
STEP 162



BK00E034

Heat the Teflon sealing ring to 80° to 100° C (176° to 212° F). Install the Teflon sealing ring onto the expander/protector.

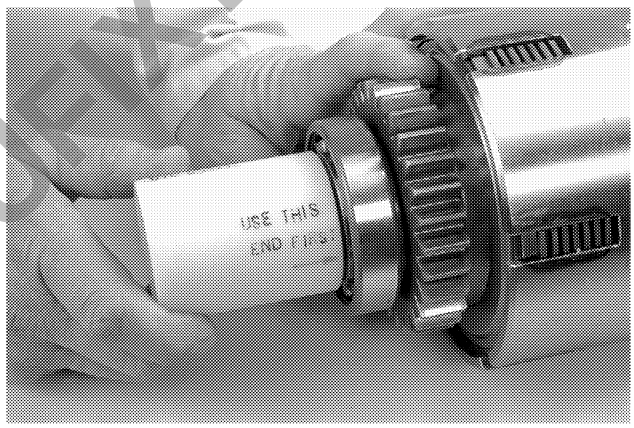
STEP 163



BK00E036

Install the CAS2327 pusher over the expander/protector and slide the sealing ring until it reaches the groove in the shaft. Remove the pusher, protector, and spacer from the shaft.

STEP 164



BK00E037

Install the end of the CAS2771-1 seal compressor with the deep chamfer onto the shaft and over the sealing ring. Use a back and forth twisting motion to allow the seal compressor to slip over the top of the sealing ring and seat the sealing ring into the groove. Be careful not to damage the sealing ring. After the sealing ring is seated in the groove, remove the seal compressor from the shaft.

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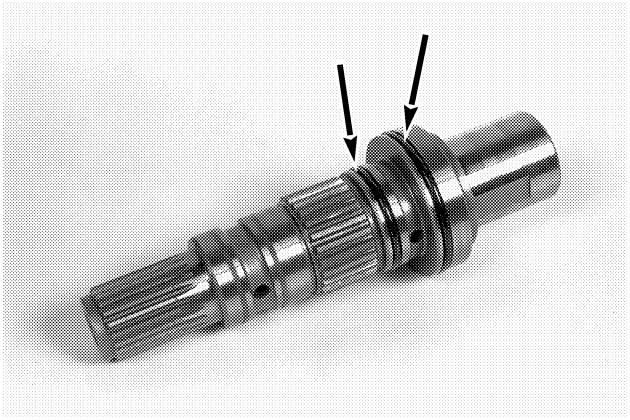
ASSEMBLY OF THE FOUR-WHEEL DRIVE SHAFT

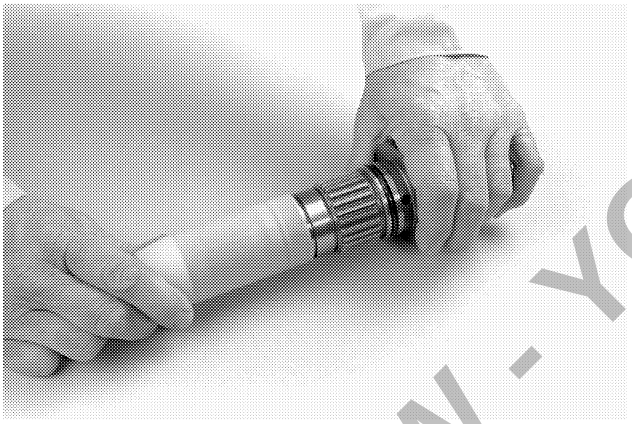
STEP 354



BK00C532

Install new O-rings on the shaft. Use clean transmission oil to lubricate the O-rings.

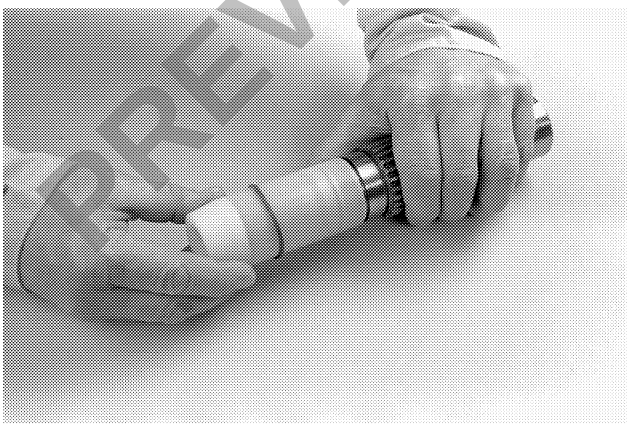
STEP 355



BK00E011

Install the CAS2771-2 expander/protector on the shaft.

STEP 356



BK00E012

Heat the Teflon sealing ring to 80° to 100° C (176° to 212° F). Install the Teflon sealing ring onto the CAS2771-2 expander/protector.

STEP 357

BK00E014

Install the CAS2327 pusher over the expander/protector and slide the sealing ring until it reaches the groove in the shaft. Remove the pusher and expander/protector from the shaft.

STEP 358

BK00E015

Install the end of the CAS2771-1 seal compressor with the deep chamfer onto the shaft and over the sealing ring. Use a back and forth twisting motion to allow the seal compressor to slip over the top of the sealing ring and seat the sealing ring into the groove. Be careful not to damage the sealing ring. After the sealing ring is seated in the groove, remove the seal compressor from the shaft.

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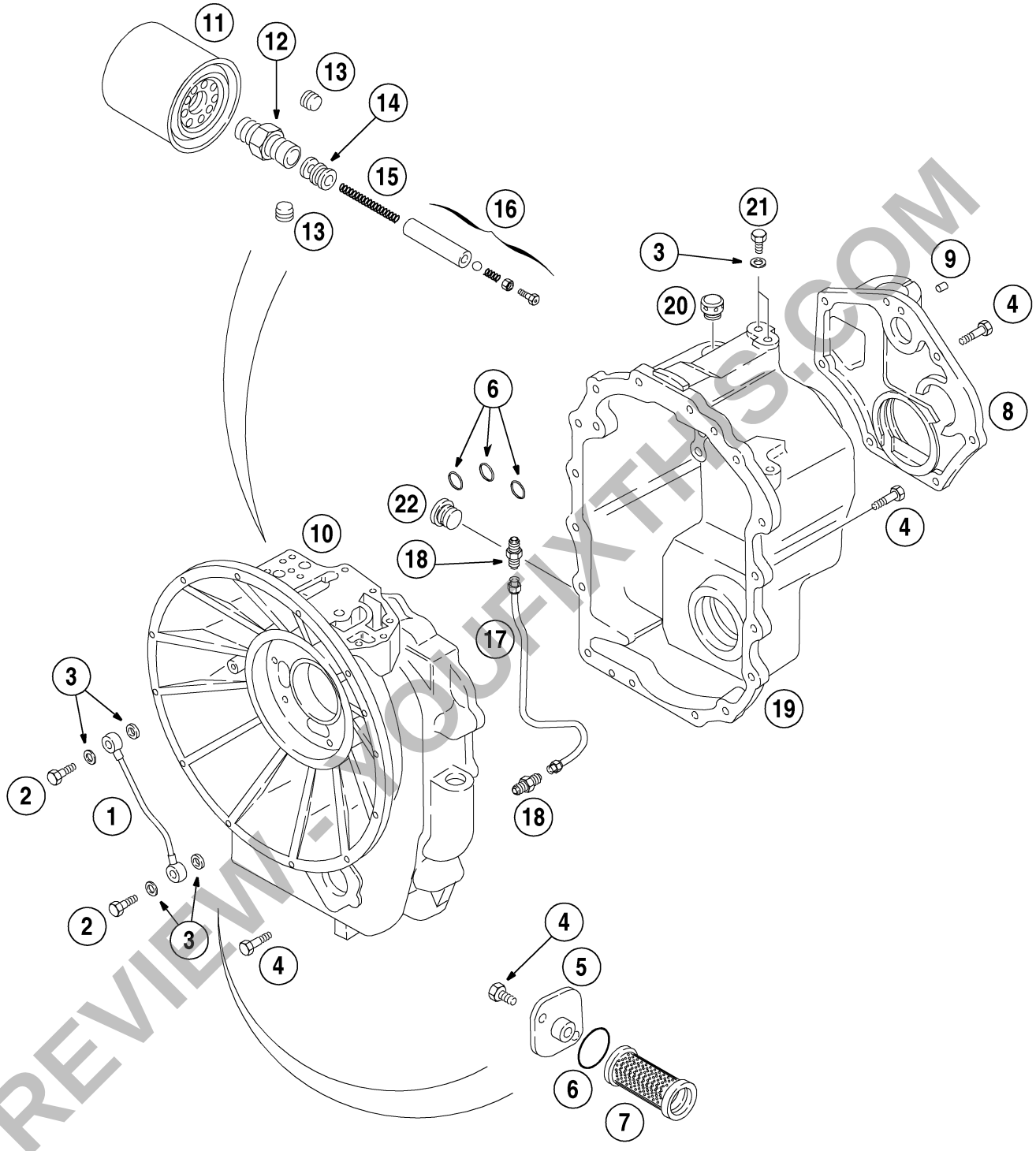

BT98D120

1. TUBE
2. HOLLOW CAP SCREW
3. COPPER WASHER
4. CAP SCREW
5. COVER
6. O-RING
7. OIL SCREEN
8. REAR COVER
9. DOWEL PIN
10. FRONT HOUSING
11. OIL FILTER
12. FITTING
13. PLUG
14. SPOOL
15. SPRING
16. FOUR-WHEEL DRIVE PRIORITY VALVE
17. FOUR-WHEEL DRIVE CLUTCH TUBE
18. FITTING
19. REAR HOUSING
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22. DRAIN PLUG

Four-Wheel Drive Transmission

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  - Adjustment
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  - Adjustment
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  - Pressure Check
  - Adjustment

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CHARGING THE ACCUMULATOR WITH DRY NITROGEN

HYDRAULIC PUMP

FILTER

LOADER CONTROL VALVE

STEERING CONTROL VALVE

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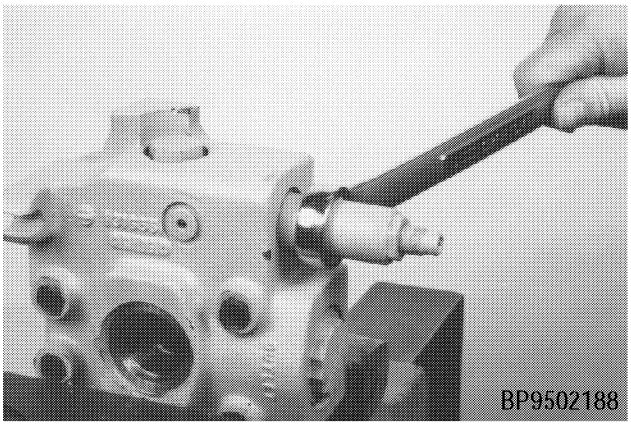
OUTLET SECTION

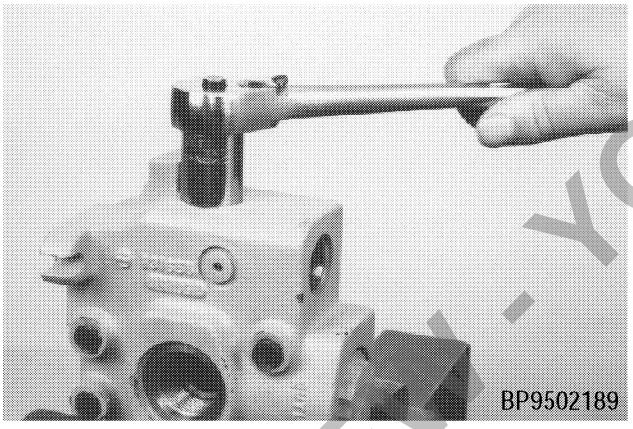
Disassembly

STEP 12



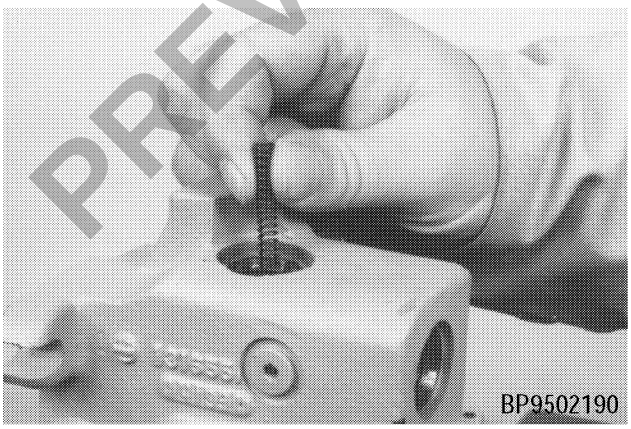
Fasten the outlet section in the vise with soft jaws. Remove the main relief valve.

STEP 13



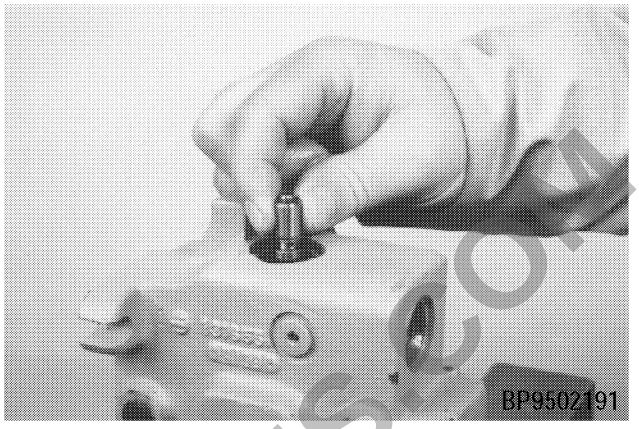
Remove the load check plug.

STEP 14



Remove the spring.

STEP 15



Remove the poppet.

STEP 16

Do not disassemble the main relief valve. None of the internal parts of the main relief valve are available for service.

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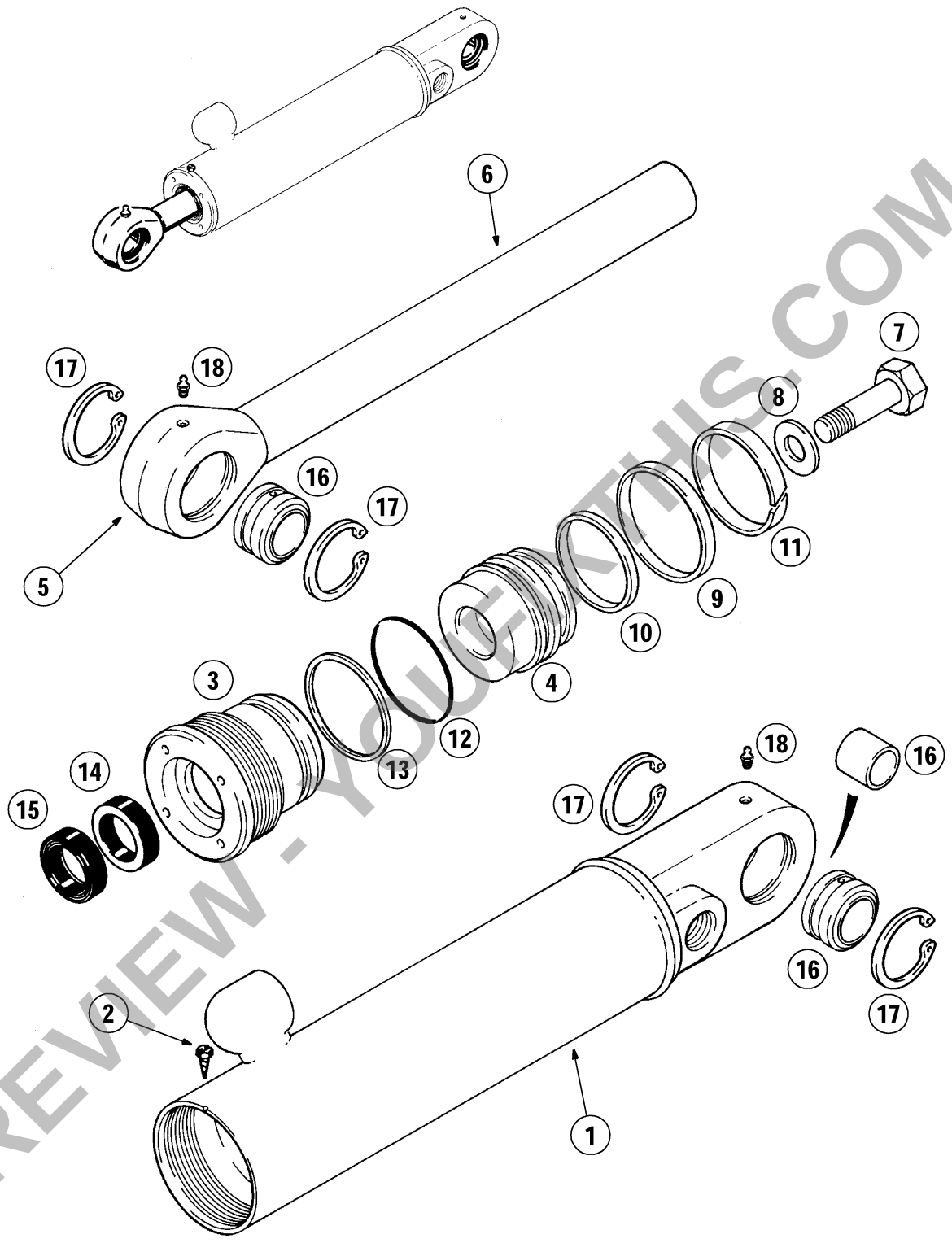

BS95M029

1. Tube
2. Lock Screw
3. Gland
4. Piston
5. Piston Rod Eye
6. Piston Rod
7. Cap Screw
8. Hardened Washer
9. Seal
10. Backup Ring
11. Wear Ring
12. O-Ring
13. Backup Ring
14. Buffer Seal
15. Wiper
16. Bushing
17. Snap Ring
18. Grease Fitting

Pitch and Tilt Cylinder

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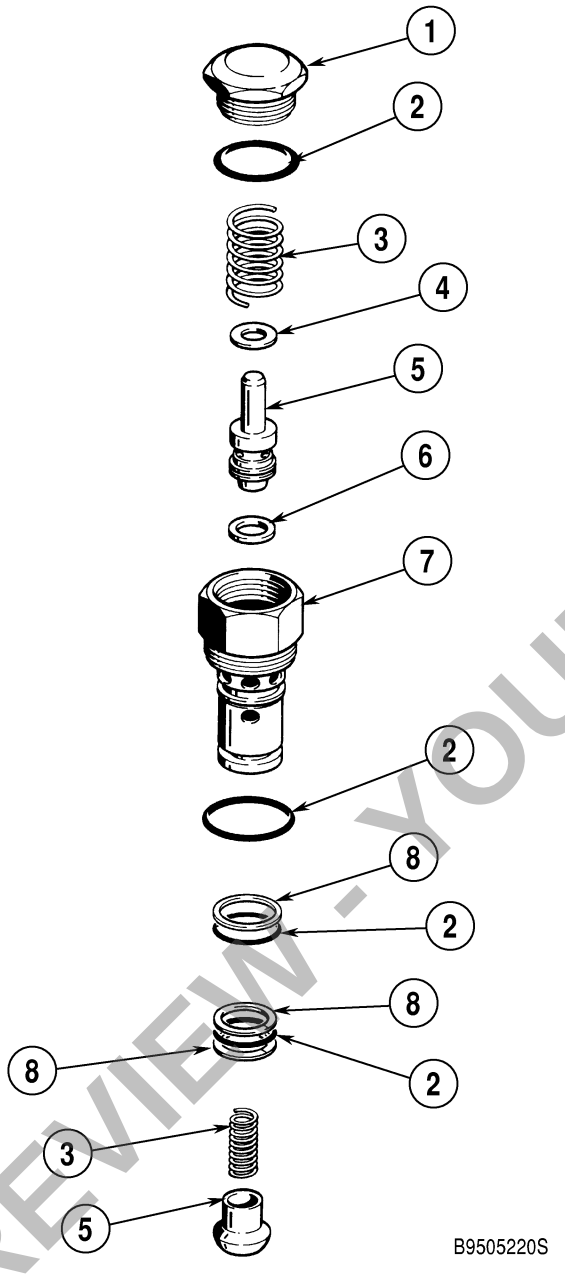
CIRCUIT RELIEF VALVE

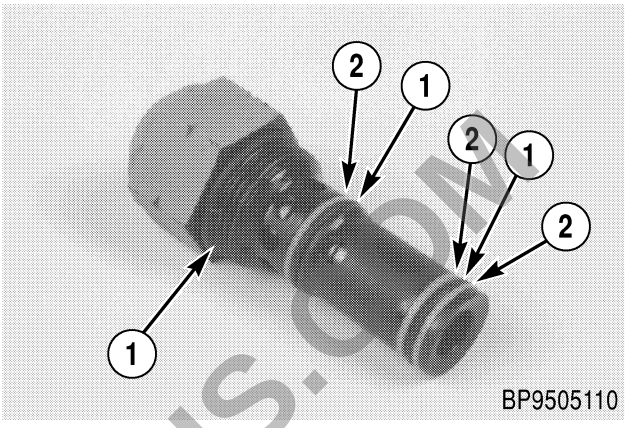
Disassembly



B9505220S

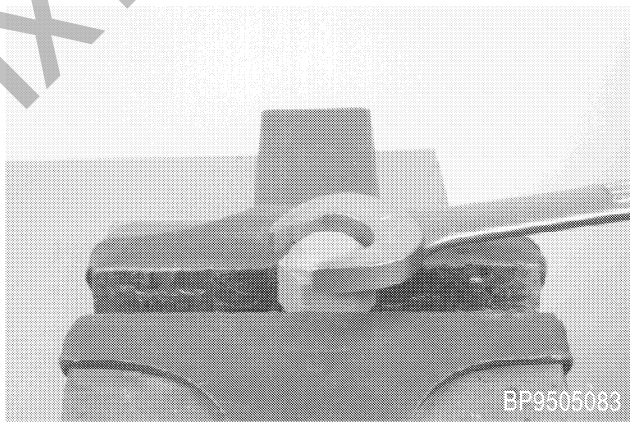
1. PLUG
2. O-RING
3. SPRING
4. SHIM(S)
5. POPPET
6. SEAL
7. BODY
8. BACKUP RING

STEP 184



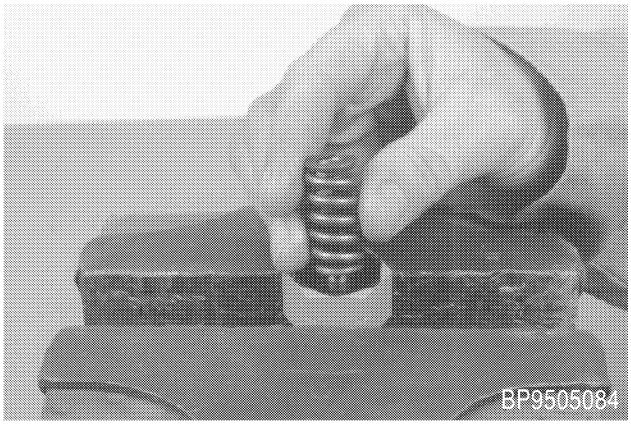
Remove and discard the O-rings (1) and backup rings (2) from the body of the circuit relief valve.

STEP 185



Fasten the circuit relief valve in the vise with soft jaws. Loosen and remove the plug.

STEP 186



Remove the spring.

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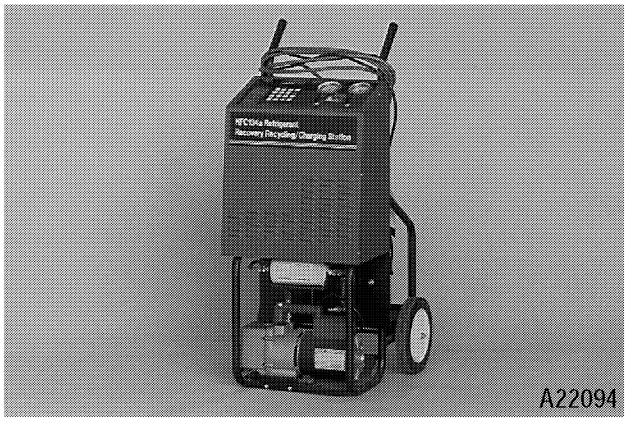
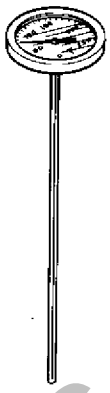
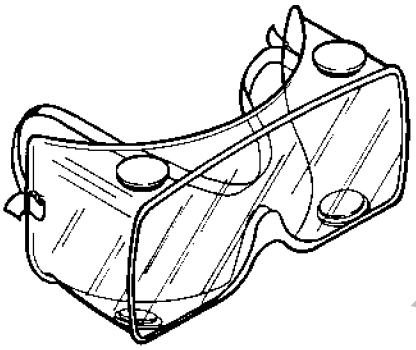
SPECIAL TOOLS



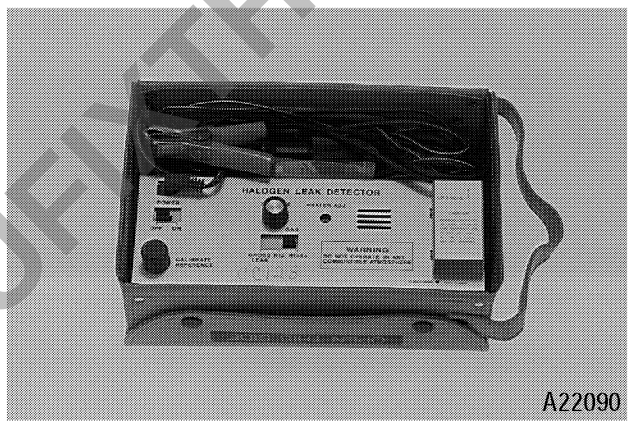
REFRIGERANT RECOVERY,
RECYCLING AND CHARGING
STATION OEM-1418



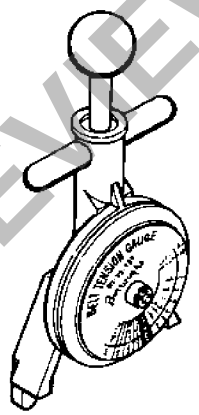
9 INCH STEM TYPE THERMOMETER
0 TO 250° F CAS-10248



SAFETY GOGGLES
CAS-10073-3



ELECTRONIC LEAK DETECTOR OEM-1437



BELT TENSION TOOL
CAS-10808

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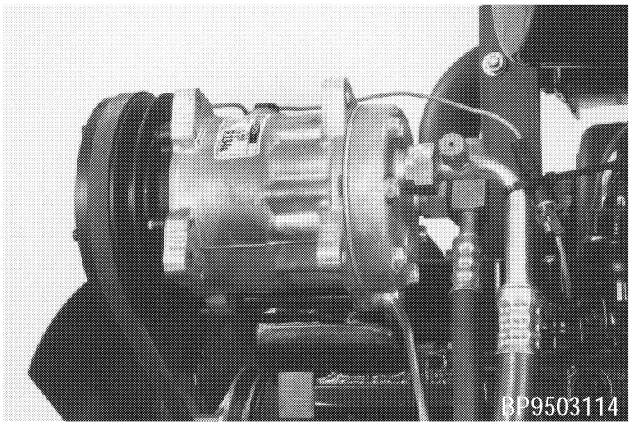
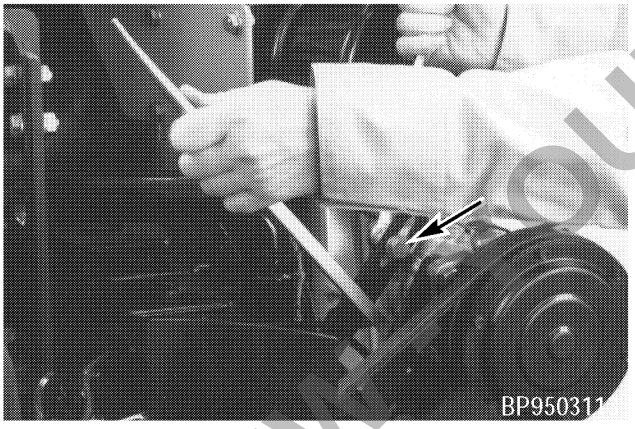
COMPRESSOR INSTALLATION

STEP 16



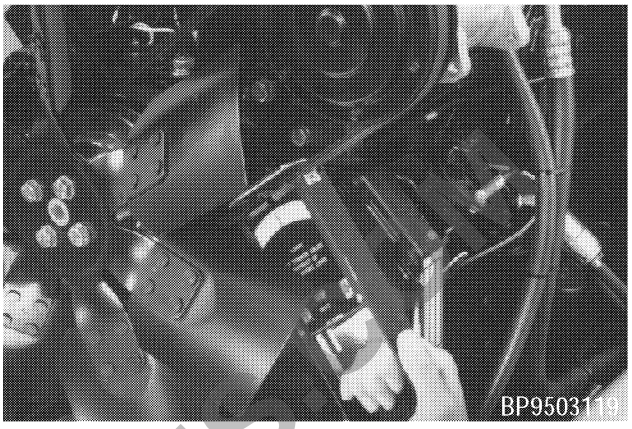
Install the compressor on the tractor. Install three washers on the pivot bolt. Install the pivot bolt and washers into the rear of the compressor. Install a washer, lock washer, and nut on the pivot bolt. Tighten the nut.

STEP 17



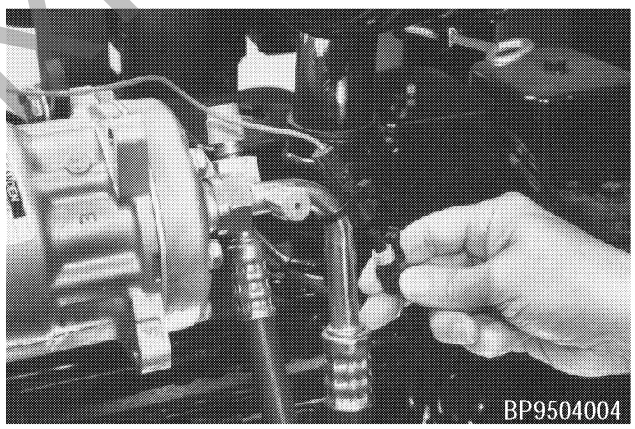
Install the drive belt on the tractor. Install the bolt, lock washer, and washer into the compressor adjusting strap.

STEP 18



Adjust the belt tension. See Section 9005 in this service manual.

STEP 19



Connect the compressor clutch wire to the engine harness assembly.

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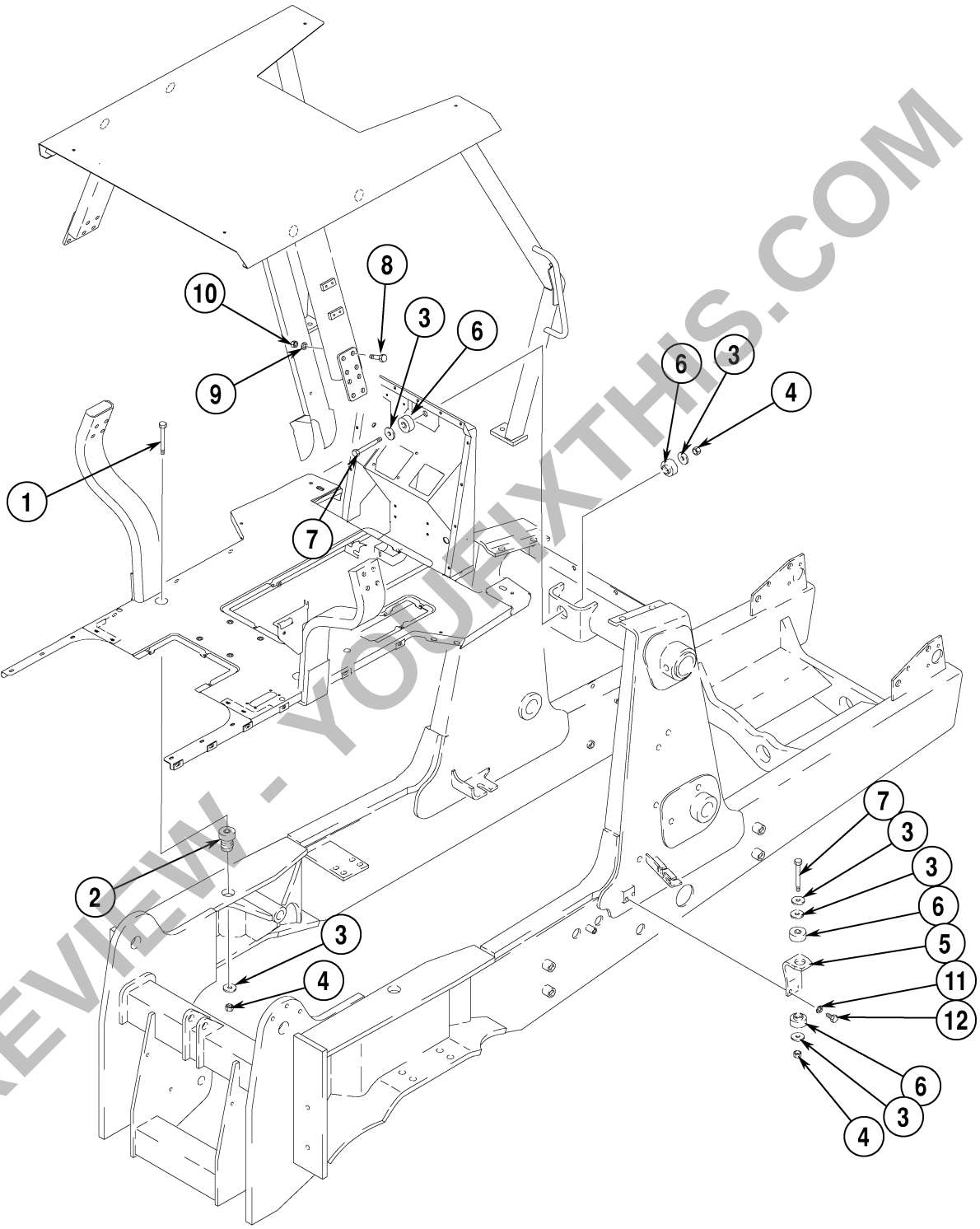
ROPS CANOPY MOUNTING HARDWARE



BT95K166

1.REAR ROPS MOUNTING BOLTS
2.REAR ROPS RUBBER MOUNT
3.FLAT WASHER
4.NUT
5.ROPS MOUNTING BRACKET
6.FRONT ROPS INSULATOR MOUNT
7.FRONT ROPS MOUNTING BOLTS
8.REAR ROPS POST MOUNTING BOLTS
9.FLAT WASHER
10.NUT
11.FLAT WASHER
12.BRACKET MOUNTING BOLT

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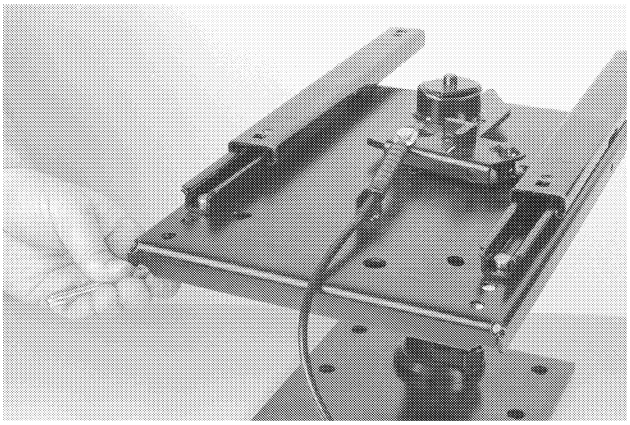
ASSEMBLY

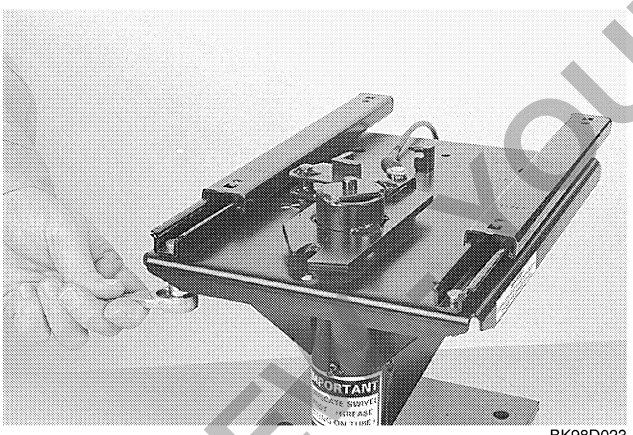
STEP 33



BK98D024

Lubricate the fore/aft adjuster slides with Case NLGI Number 2 grease and place into the proper position on the pedestal. Install and tighten the cap screws in the rear mounting holes of the fore/aft adjuster slides.

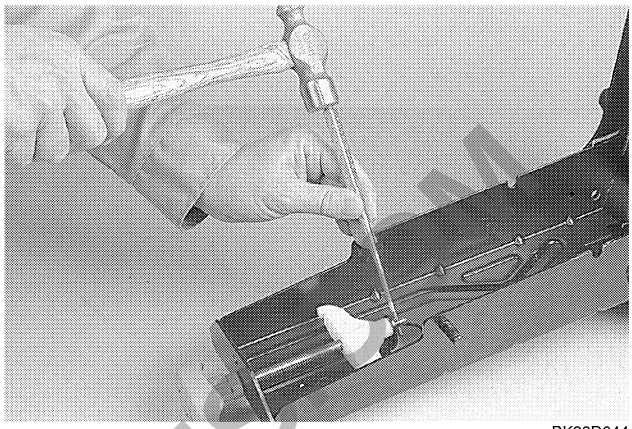
STEP 34



BK98D023

Install and tighten the cap screws in the front mounting holes of the fore/aft adjuster slides.

STEP 35



BK98D044

Install the weight adjustment screw and control knob into the suspension tower. Use acceptable tools and install the roll pin into the weight adjustment screw.

STEP 36

BK98D043

Install the weight adjustment springs into the control tower.

STEP 37

BK98D042

Install the rollers onto the suspension tower.

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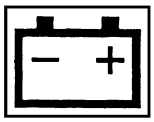
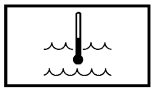


10. **VOLTMETER GAUGE:** This gauge shows the condition of the battery. The battery condition is normal when the gauge needle is in the green area of the gauge when the key switch is in the ON position. If the gauge needle is in the lower red area, the charge of the battery is too low or the alternator is not charging. If the gauge needle moves into the upper red area, the alternator is charging too much. Damage to the battery can result if this condition continues.

NOTE: *When the battery is in good condition and you turn the key switch to the ON position, the gauge needle will move up to the bottom part of the green area. When the engine starts, the needle will move up to the upper part of the green area and stay there. If the gauge needle does not move up after the engine starts, check the condition of the battery/alternator.*

11. **FUEL LEVEL GAUGE:** This gauge shows the amount of fuel that is in the fuel tank.



12. **WATER TEMPERATURE GAUGE:** This gauge shows the temperature of the coolant in the engine cooling system. The temperature of the coolant is normal when the gauge needle is in the green area of the gauge. If the gauge needle goes into the red area, stop the engine and check the level of the coolant, or check for debris on the radiator/oil cooler, or for a thermostat that does not operate correctly.

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LOADER OPERATION

WARNING: *When you lower a loaded bucket, material can spill out if you do not manually roll back the bucket. The self-leveling feature does not roll back the bucket automatically when the loader is lowered. Other persons in the area can be injured if material spills from the bucket when the loader is lowered.*

CM101

This information for loader operation does not include all possible conditions. This is basic information that you need to operate the machine.

If you are a new operator, always operate in a clear area at decreased engine speed.

Safety When You Work

Be a careful operator; you can prevent accidents. Fasten the safety belt before you start the engine.

BP9412013

Operator and Seat in Correct Position for Loader Operation

Clutch Cutout Button

BP97N044

Push the clutch cutout button to give maximum power to the loader hydraulics. When you push the clutch cutout button, the transmission is disengaged from the drive wheels. Release the clutch cutout button to engage the transmission power. The machine can roll free when the clutch cutout button is pushed. If required, use the brakes to stop the machine.

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TRANSMISSION

Service Specifications

Transmission Capacities

2 Wheel Drive
- Total System ..... 18.5 litres (19.5 U.S. quarts)
- Refill Capacity With or Without Filter Change ..... 16.0 litres (16.9 U.S. quarts)

4 Wheel Drive
- Total System ..... 21 litres (22 U.S. quarts)
- Refill Capacity With or Without Filter Change ..... 18.5 litres (19.5 U.S. quarts)

Type of Fluid (Standard Transmission) ..... Case Hy-Tran Plus® (MS-1207)

Fluid Level Check ..... 250 hours
Filter Replacement ..... 1000 hours
Transmission Breather Cleaning ..... 1000 hours
Transmission Fluid Change ..... 1000 hours

Fluid Level

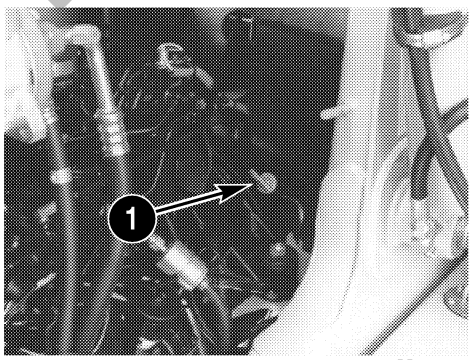
Check the fluid level of the transmission after the first 20 hours of operation with a new machine. Then check the fluid level every 250 hours of operation.

Check the fluid level when the machine is parked on level ground and with the engine running.

WARNING: *Rotating fan and belts: Contact will cause injury. Keep clear.*

SB071

The fluid level must be between the ADD and FULL marks on the dipstick. If the fluid level is at the ADD mark, add fluid as required until the fluid level is at the full mark.



BP9410048

1. TRANSMISSION DIPSTICK

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