Section 1001

GENERAL INFORMATION

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CASE CORPORATION

Rac 8-91581

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January, 1988 (Revised February, 1991

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Section

2004

TRACTOR SPLIT
Between Flywheel Housing and Speed Transmission

7100 Series Transmission Serial
Number AJB0055133 and After

All 7200 Series Models

2004

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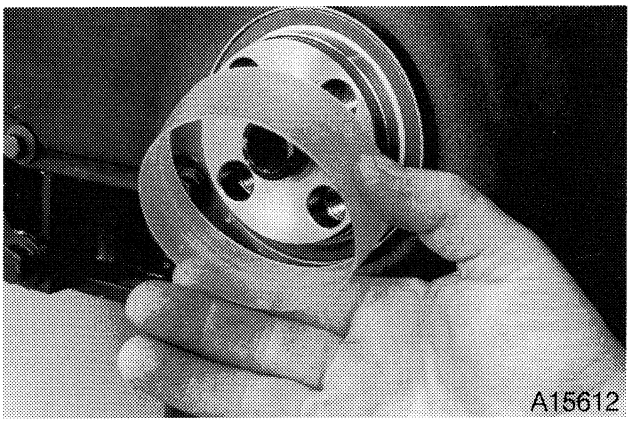
CASE CORPORATION

Rac 7-61090

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February, 1994

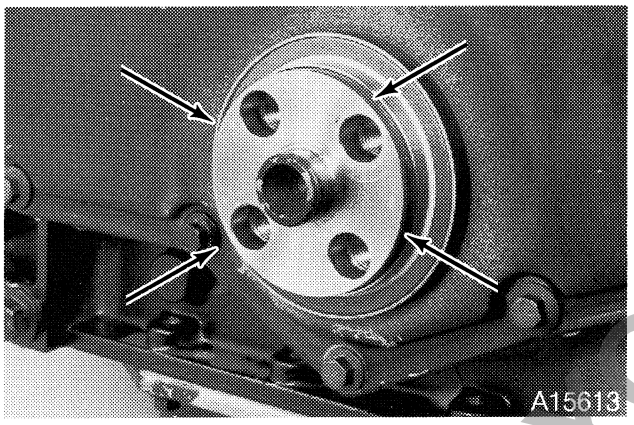
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STEP 48



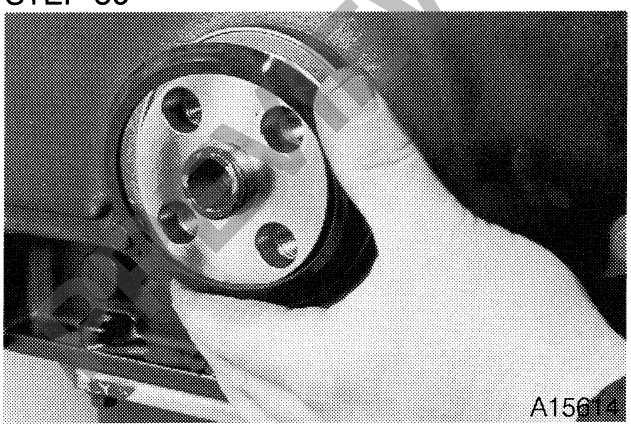
Remove the protective sleeve from the crankshaft.

STEP 49



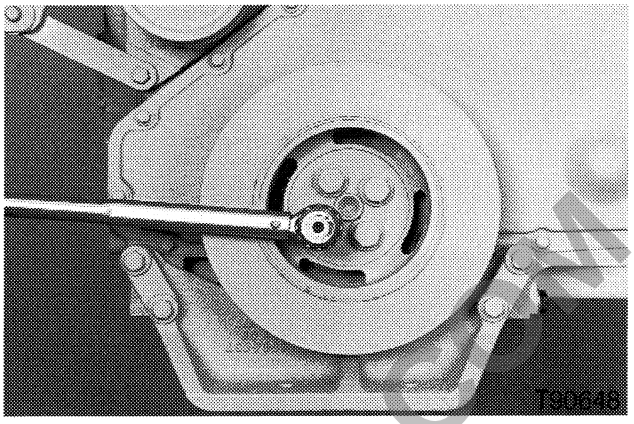
Measure the distance from the crankshaft end to the oil seal in four positions. The measurement must be the same in all positions.

STEP 50



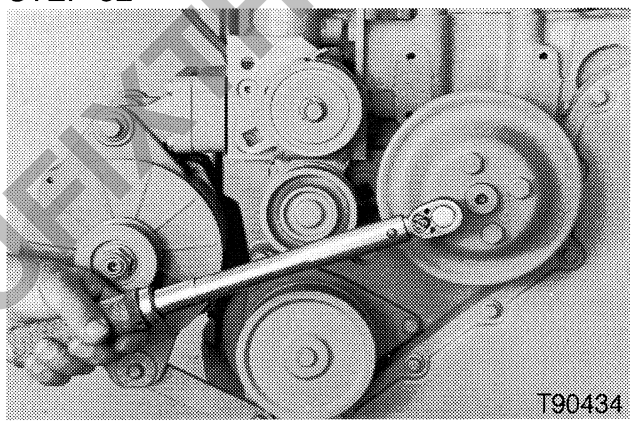
Install the crankshaft dust seal.

STEP 51



Install the crankshaft pulley. Tighten the bolts to a torque of 188 to 212 Nm.

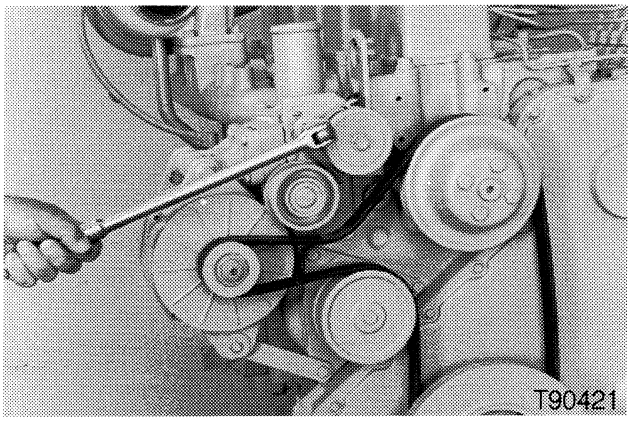
STEP 52



Install the fan pulley and tighten the fan pulley bolts to a torque of:

Grade 8.8 Size M8	21 to 31 Nm
Grade 10.9 Size M8	37 to 43 Nm
Grade 8.8 Size M10	51 to 62 Nm
Grade 10.9 Size M10	51 to 62 Nm

STEP 53

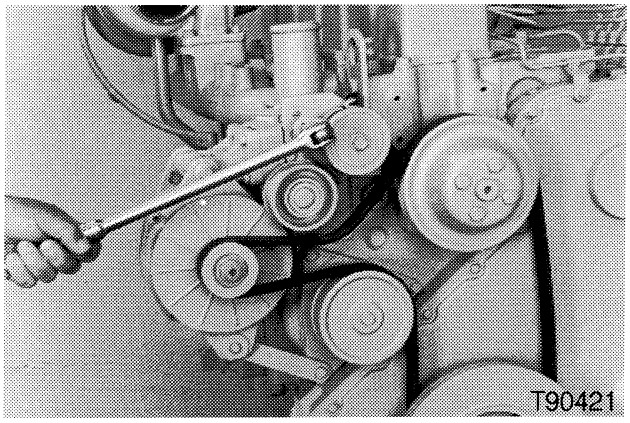


Lift the belt tensioner and install the fan belt.

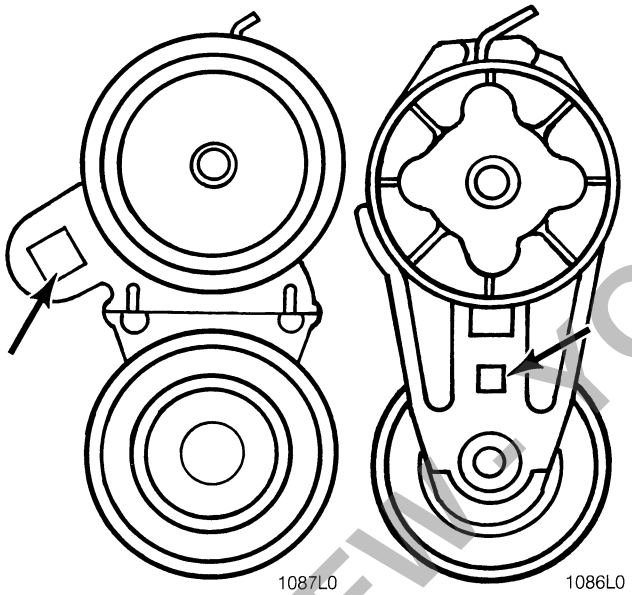
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BELT TENSIONER SERVICE
Belt Tensioner Check and Removal

STEP 29

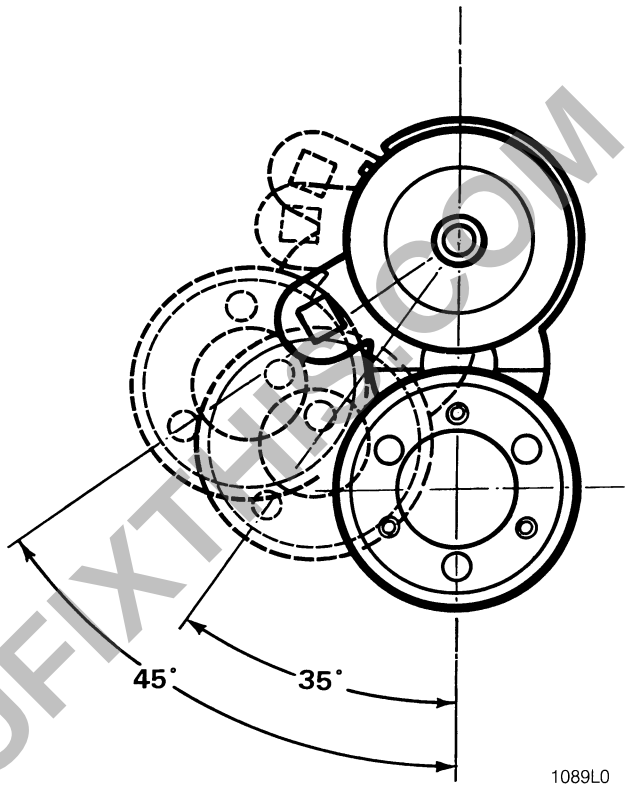


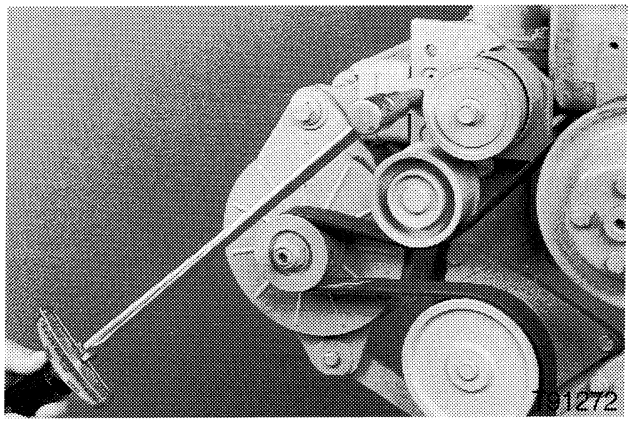
Lift the belt tensioner pulley and remove the fan belt.



NOTE: *Your engine can be equipped with one of the belt tensioners shown above. The lift holes are as shown.*

STEP 30





Use a precision type torque wrench to lift the belt tensioner to a 45 degree angle. Lower the belt tensioner to a 35 degree angle. The spring tension must not be less than 24 Nm. If the spring tension is less than 24 Nm the belt tensioner must be replaced.

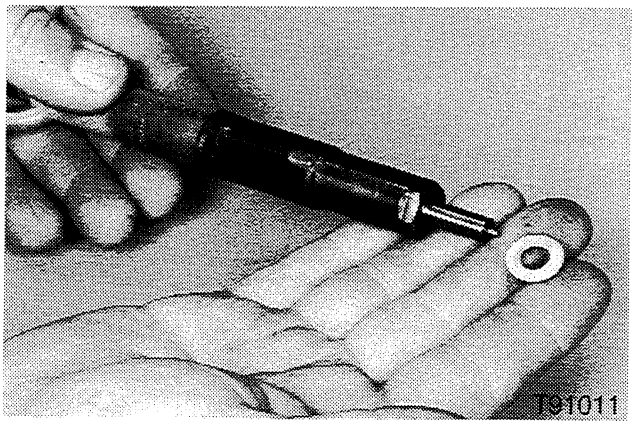
NOTE: *Do not use a clik type torque wrench to measure the spring tension.*

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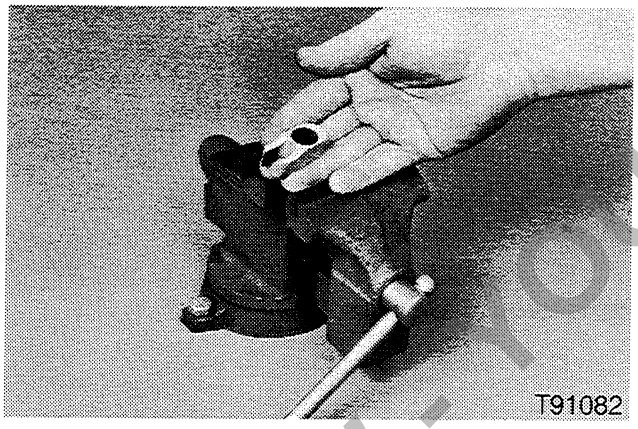
MAINTENANCE OF THE INJECTOR
Disassembly

STEP 15



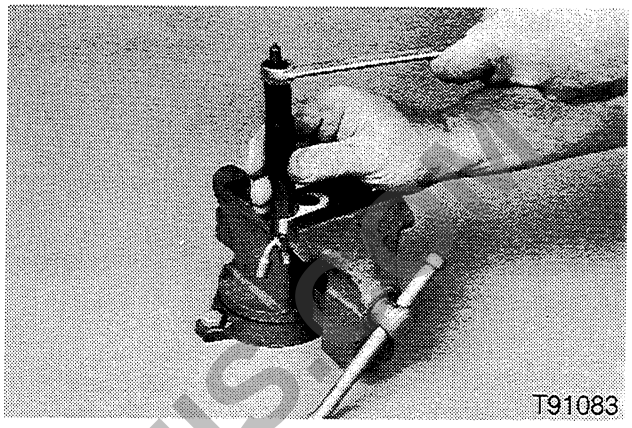
Remove the sealing gasket if not already removed.

STEP 16



Install an injector holder in the vise.

STEP 17



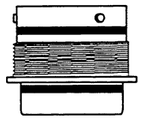
NOTE: *Wet the nozzle and the holder assembly in a cleaning solution that will remove carbon. Use Gunk, Bende's Kleaner or a solution that is the same as these. The cleaning solution will help free the cap nut.*

Use a small amount of force to turn the cap nut. Check the nozzle when there is a small amount of movement. Look to see if the nozzle turns with the cap nut. If the nozzle turns with the cap nut, see below.

IMPORTANT: *The nozzle is being held in position with the cap nut. If the nozzle turns with the cap nut, there is carbon deposits between the two parts. Do not loosen the cap nut. This will cause damage to the dowel pins, valve stop and holder body pressure face. Wet the nozzle and the holder assembly in cleaner solution that removes carbon, until the nozzle is free in the cap nut. Replace the valve stop assembly if there is damage to the dowel pins or valve stop.*

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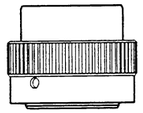


CAVITY#--COLOR	CAVITY#--COLOR
A----W/622	M----LB/541
B----P/784	N----Y/262
C----O/835	P----Y/239
D----T/481	R----Y/265
E----Y/285	S----Y/267
F----B/216	T----B/W/115
G----B/285	U----Y/216
H----B/215	V----Y/234
J----Y/215	V----B/W/238
K----LB/532	X----T/483
L----Y/233	

CAB MAIN HARNESS CONNECTOR
TO TRANSMISSION HARNESS

CONNECTOR #3

672L03

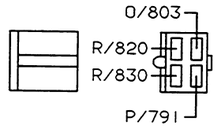


CAVITY#--COLOR	CAVITY#--COLOR
A----W/622	M----LB/541
B----P/784	N----Y/262
C----O/835	P----Y/239
D----T/481	R----Y/265
E----Y/285	S----Y/267
F----B/216	T----B/W/115
G----B/285	U----Y/216
H----B/215	V----Y/234
J----Y/215	V----B/W/262
K----LB/532	X----T/483
L----Y/233	

TRANSMISSION HARNESS TO
CAB MAIN HARNESS CONNECTOR

CONNECTOR #4

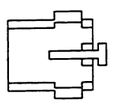
672L04



MAIN CAB HARNESS
TO CAB ROOF
CONNECTOR

CONNECTOR #29

668L029

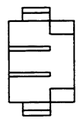


CAVITY#--COLOR
A----O/835
B----R/715
C----R/870
D----P/757
E----P/710
F----P/756
G----O/802
H----O/804
J----OPEN

MAIN CAB HARNESS
TO CAB ROOF
HARNESS CONNECTOR

CONNECTOR #7

666L07

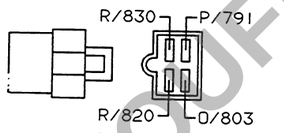


CAVITY#--COLOR
A----O/835
B----R/871,715
C----R/870
D----P/757
E----P/110
F----P/756
G----O/804
H----O/802
J----OPEN

CAB ROOF HARNESS
TO CAB MAIN
HARNESS CONNECTOR

CONNECTOR #8

666L08



CAB ROOF HARNESS
TO MAIN CAB
HARNESS CONNECTOR

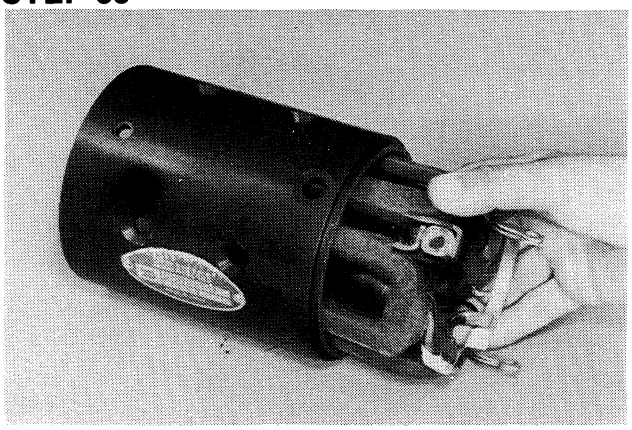
CONNECTOR #32

668L032

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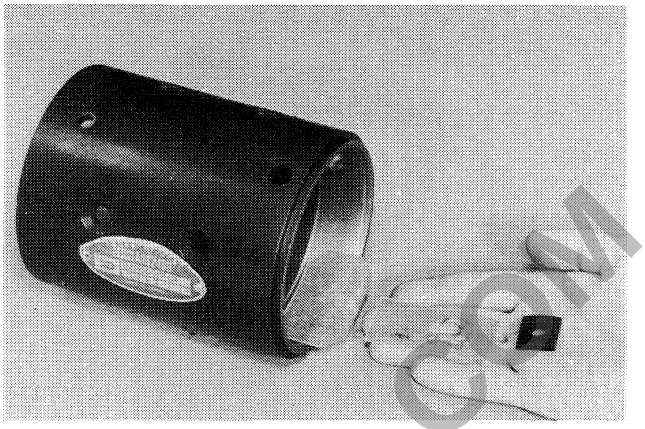
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STEP 55



Remove the field coil assembly from the field frame.

STEP 56



Remove the field coil insulators.

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Section 5003

5003

STEERING AXLE AND LINES

Adjustable Axle Only

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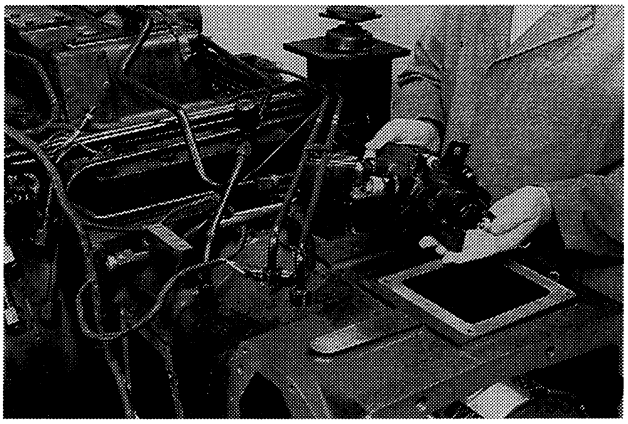
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Rac 8-91840

Printed in U.S.A.
September, 1987

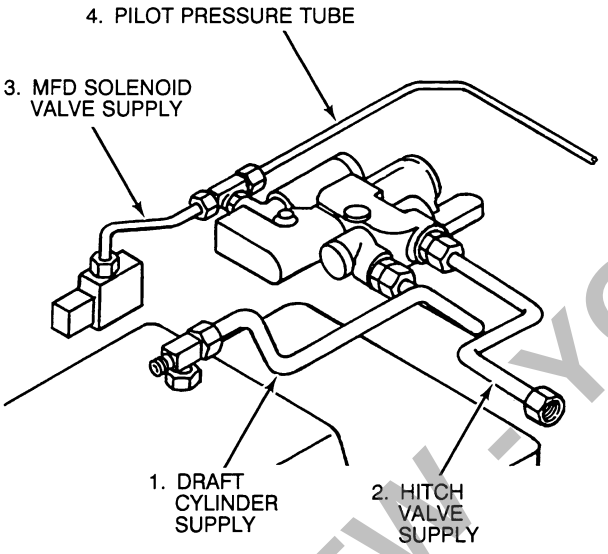
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STEP 67



Install the hitch control valve. See Section 8011 in this service manual for installing the valve.

STEP 68

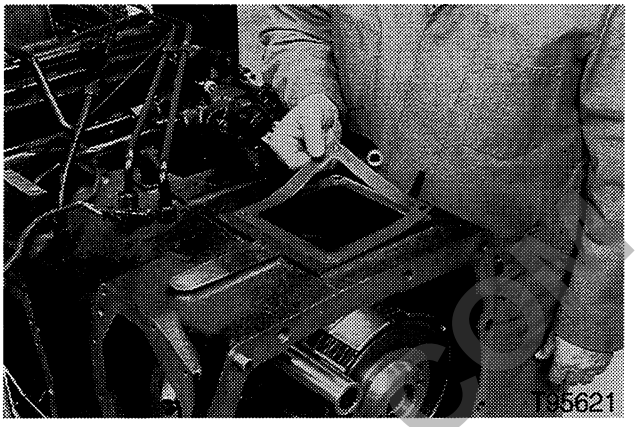


981L93

Install the hydraulic lines shown onto hitch valve and MFD solenoid valve if equipped.

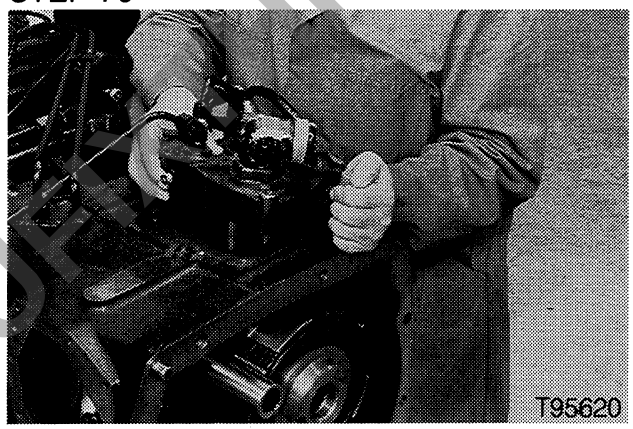
Connect the hitch valve signal line (not shown).

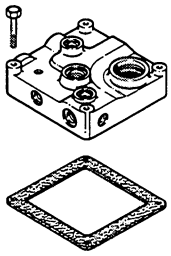
STEP 69

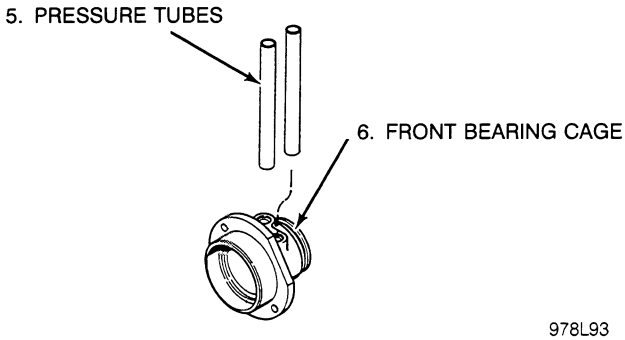


Clean the lubrication manifold mounting surface and install a new gasket.

STEP 70







978L93

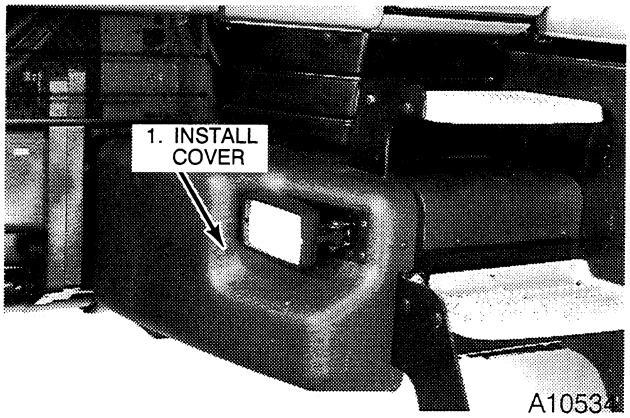
Install the master clutch pressure tubes into the lubrication manifold. Align the pressure tubes with the bores in the front bearing cage. Push the lubrication manifold down onto the transmission case.

Install the mounting bolts and tighten to a torque of 38 to 45 lb ft (52 to 61 Nm).

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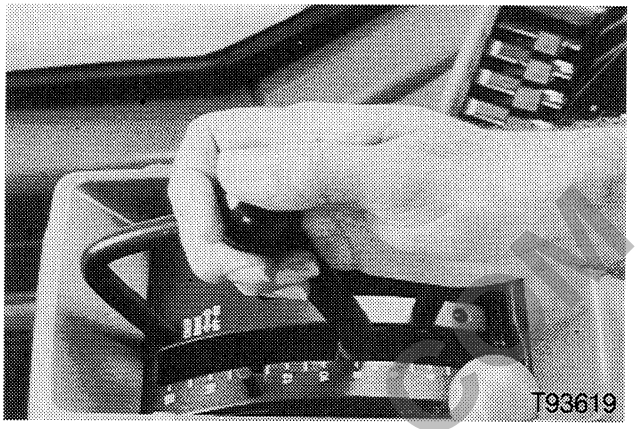
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STEP 243



Connect the front battery cover lamp harness. Install the front battery covers.

STEP 244

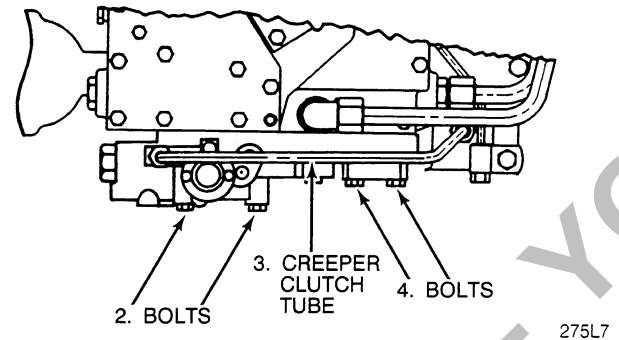


Drive the tractor shifting through all of the speed ranges to check the operation of the transmission valve.

MASTER CLUTCH PRESSURE ADJUSTMENT

IMPORTANT: *Full master clutch pressure can not be reached if regulated pressure is not within specifications. To set regulated pressure see Section 8002 PTO Valve.*

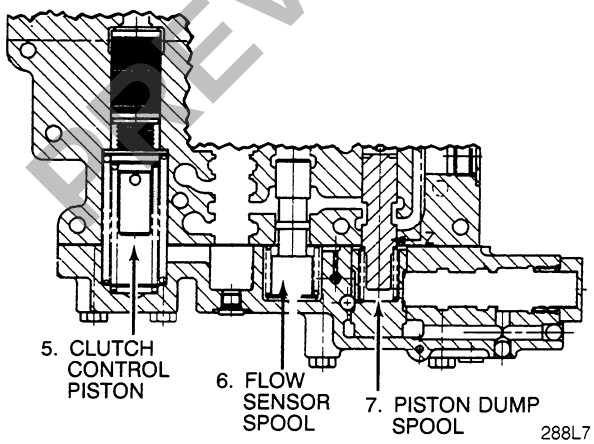
STEP 245



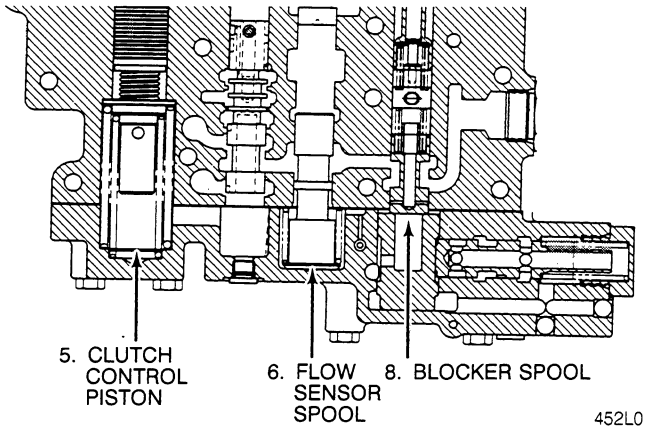
Remove the creeper clutch tube if equipped and six cover retaining bolts.

NOTE: *The cover will have spring pressure on it from valve spool springs. Oil will drain from the valve when the cover bolts are loosened.*

STEP 246



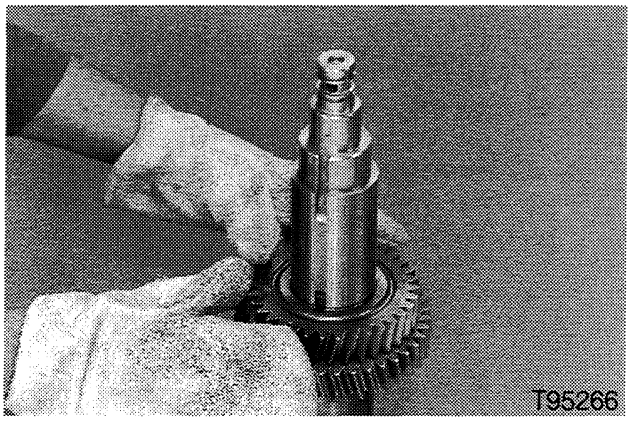
Remove the lower cover, clutch control piston and springs, flow sensing spool and spring and the piston



dump spool and spring (if equipped) or the blocker spool (if equipped).

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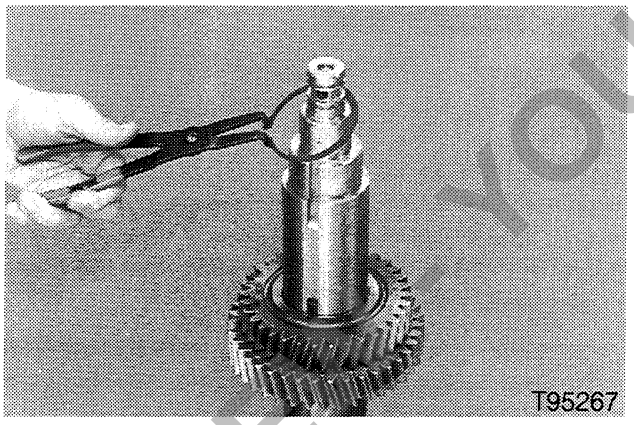
STEP 58



Heat the (3rd-4th) speed driver gear in a bearing oven. Do not heat the gear beyond a temperature of 350°F (177°C). Install the gear over the shaft and against the (1st-3rd-5th) speed driven gear.

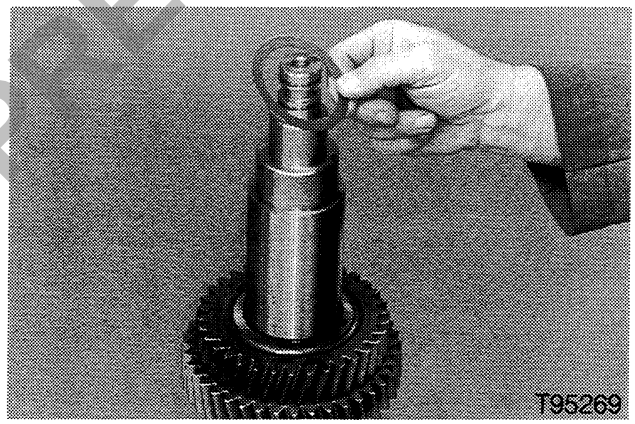
Always wear heat protective gloves to prevent burning your hands when handling heated parts. SM121

STEP 59



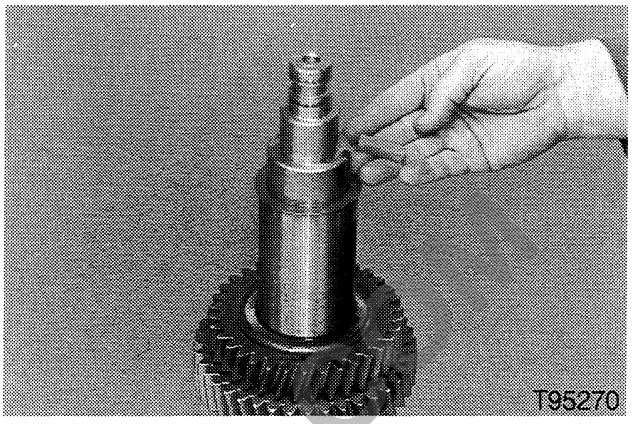
Install the snap ring. The flat side of the snap ring must be away from the gear.

STEP 60



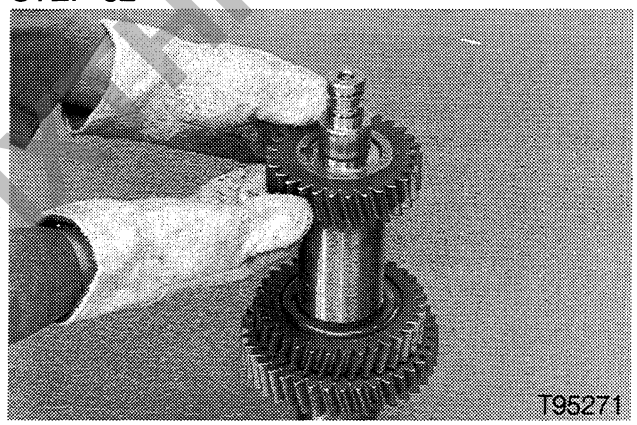
Install the thrust washer.

STEP 61



Install the gear key.

STEP 62



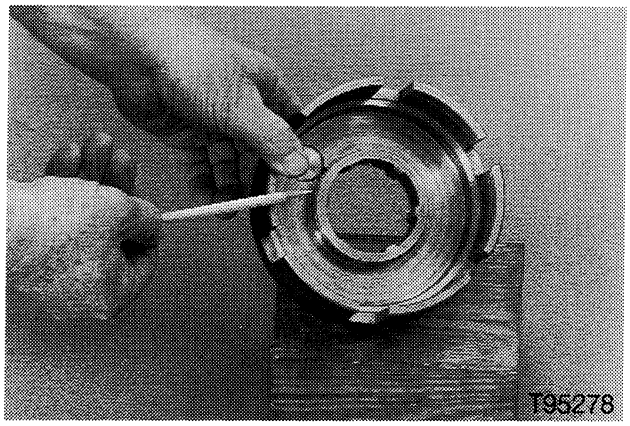
Heat the (1st-2nd) speed driver gear in a bearing oven. Do not heat the gear beyond a temperature of 350°F (177°C). Install the gear over the shaft and against the thrust washer.

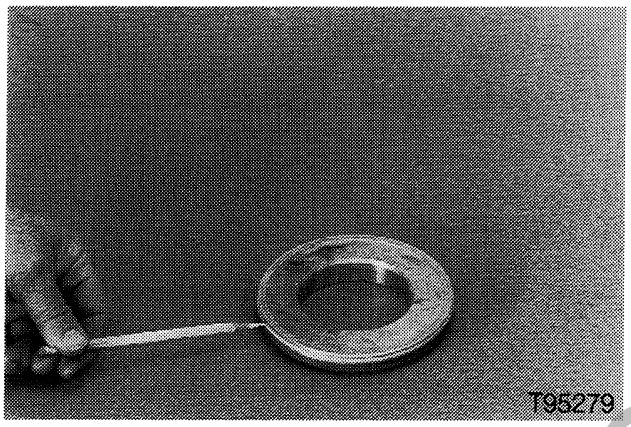
Always wear heat protective gloves to prevent burning your hands when handling heated parts. SM121

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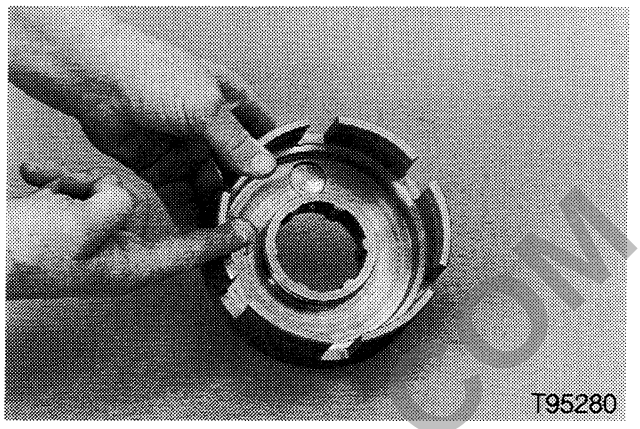
STEP 37





Replace the teflon ring and o-ring on the carrier and piston. Install the o-ring in the groove. Install the teflon ring over the o-ring.

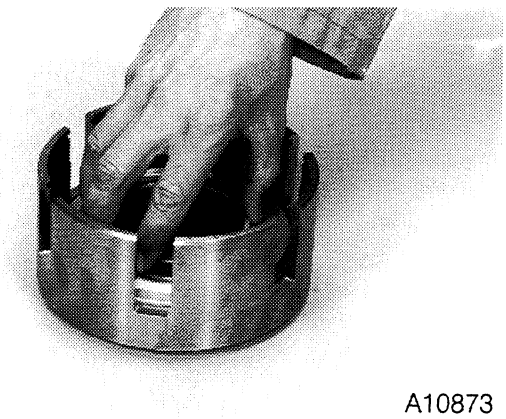
STEP 38





Put petroleum jelly on the teflon rings.

STEP 39



A10873

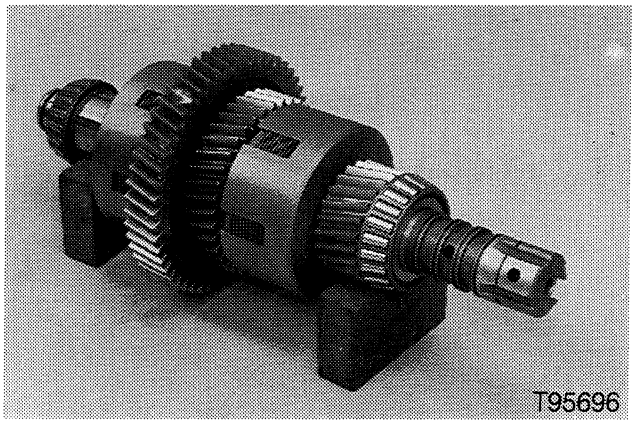
Install the clutch piston into the carrier the flat side of the piston must be down. Push the piston into the carrier by hand.

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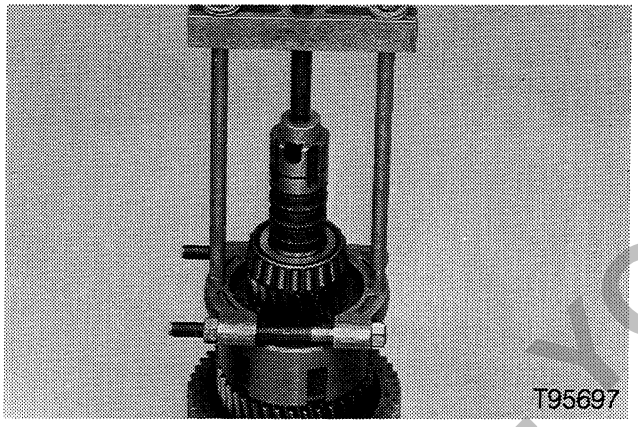
Disassembling the Range Transmission Input Shaft

STEP 82



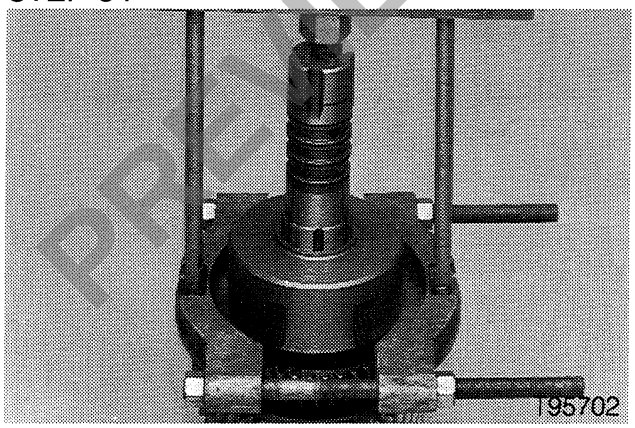
Put the input shaft on a clean work bench.

STEP 83



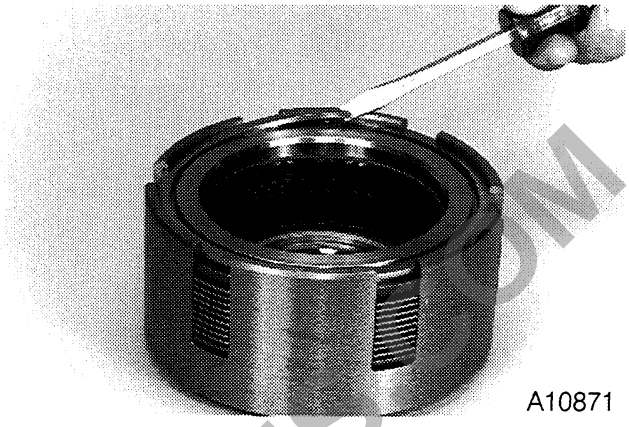
Remove the four seal rings on the front end of the shaft. Use a puller to remove the low range drive gear and front bearing cone.

STEP 84



Use a puller to remove the medium range clutch pack assembly.

STEP 85



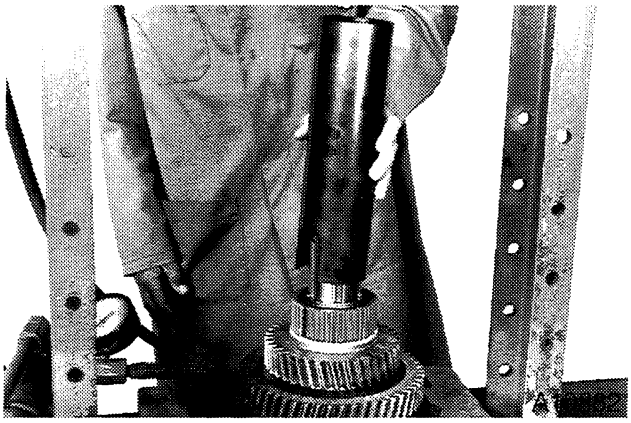
Remove the retaining ring from the clutch pack assembly.

STEP 86



Turn the assembly over and remove the clutch plate carrier.

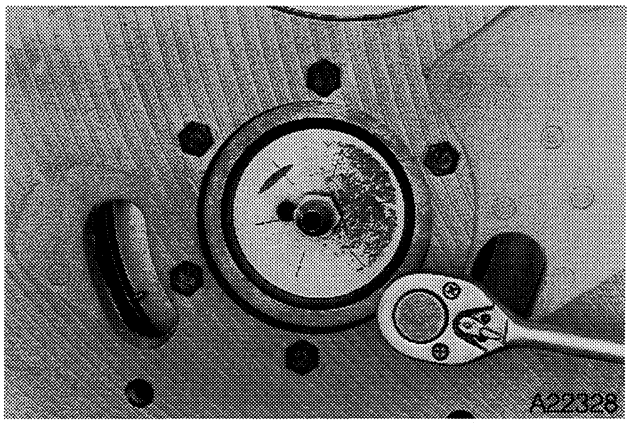
STEP 87



Install the compression sleeve with the notch over the shaft to remove the retaining ring for the piston return Belleville washers. See The Special Tools page in this section.

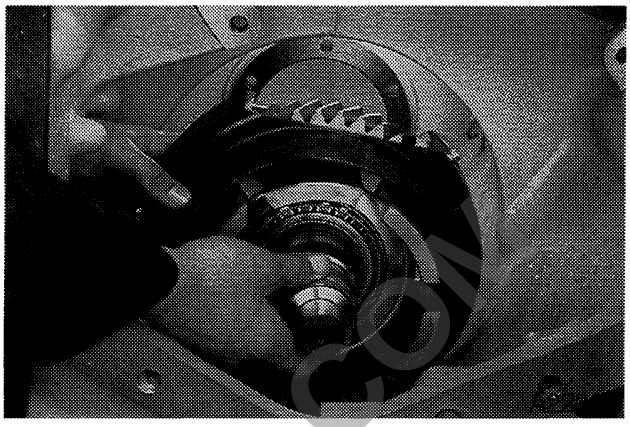
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STEP 24



Remove the six mounting bolts for the MFD shaft rear bearing cage.

STEP 25

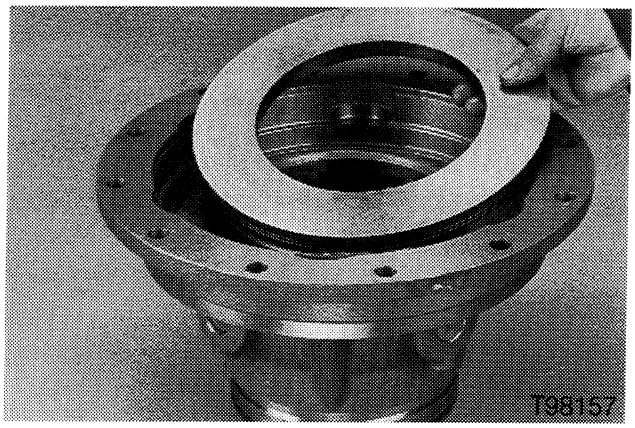


Remove the MFD shaft assembly from the range transmission.

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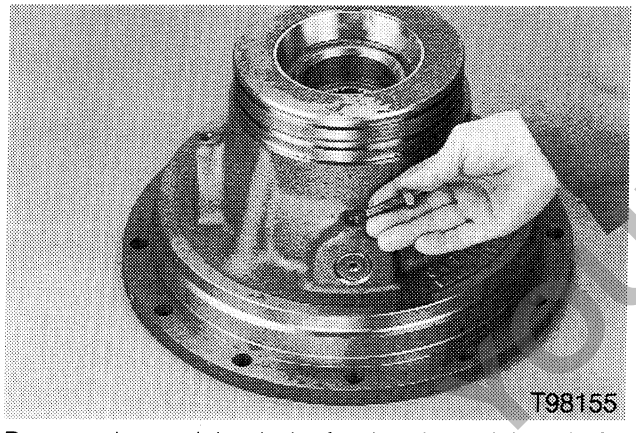
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STEP 37



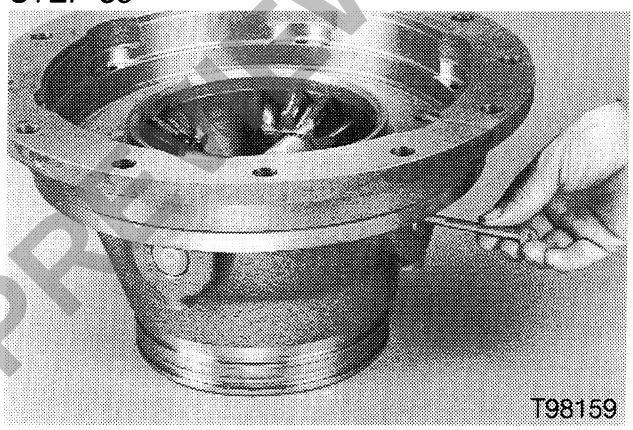
Remove the piston and, if equipped, the large inner piston o-ring from the housing.

STEP 38



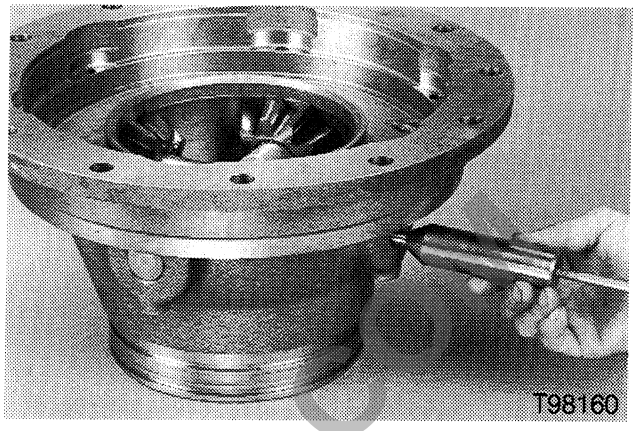
Remove the retaining bolts for the short pinion shafts from the housing.

STEP 39



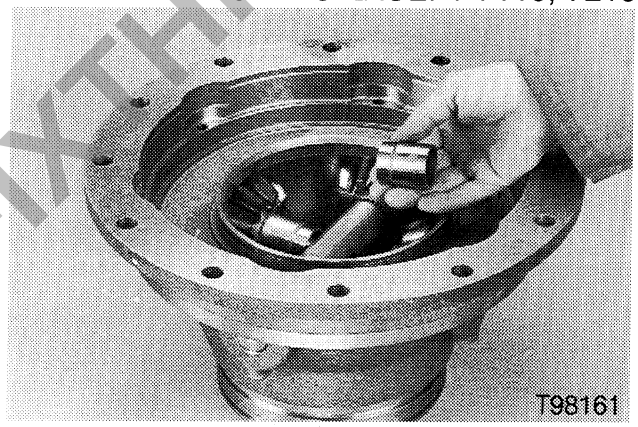
Insert a M8 bolt into the short pinion shaft hole.

STEP 40



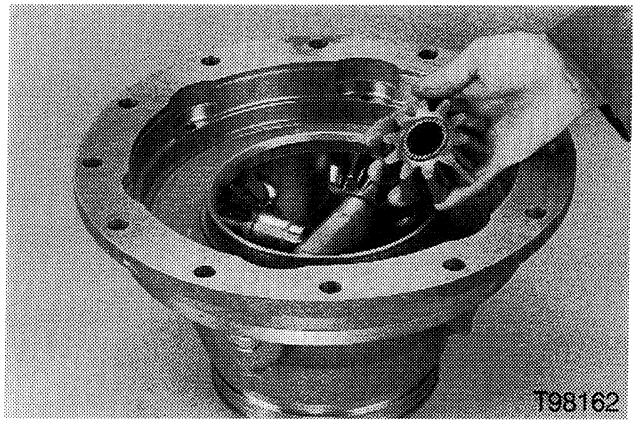
Remove both short pinion shafts from the housing.

STEP 41 All MODELS EXCEPT 7110, 7210



Remove the short spacers from the housing.

STEP 42



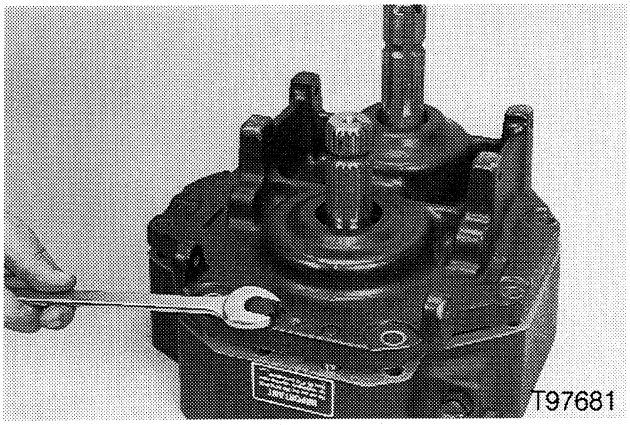
Remove the pinion gears for the short shafts from the housing.

NOTE: *For all models except 7110 and 7210, remove the thrust ring and needle bearings from both short shaft pinion gears.*

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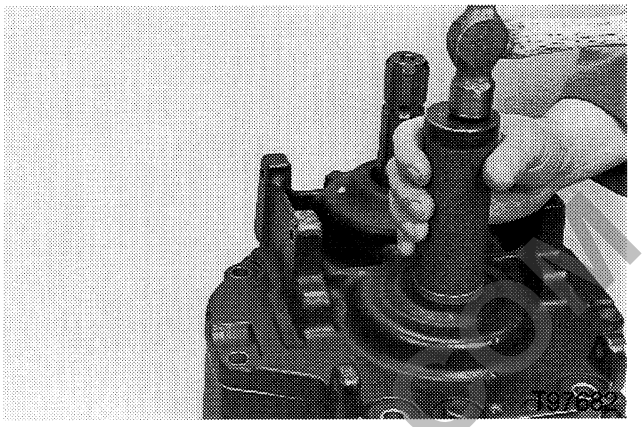
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STEP 113

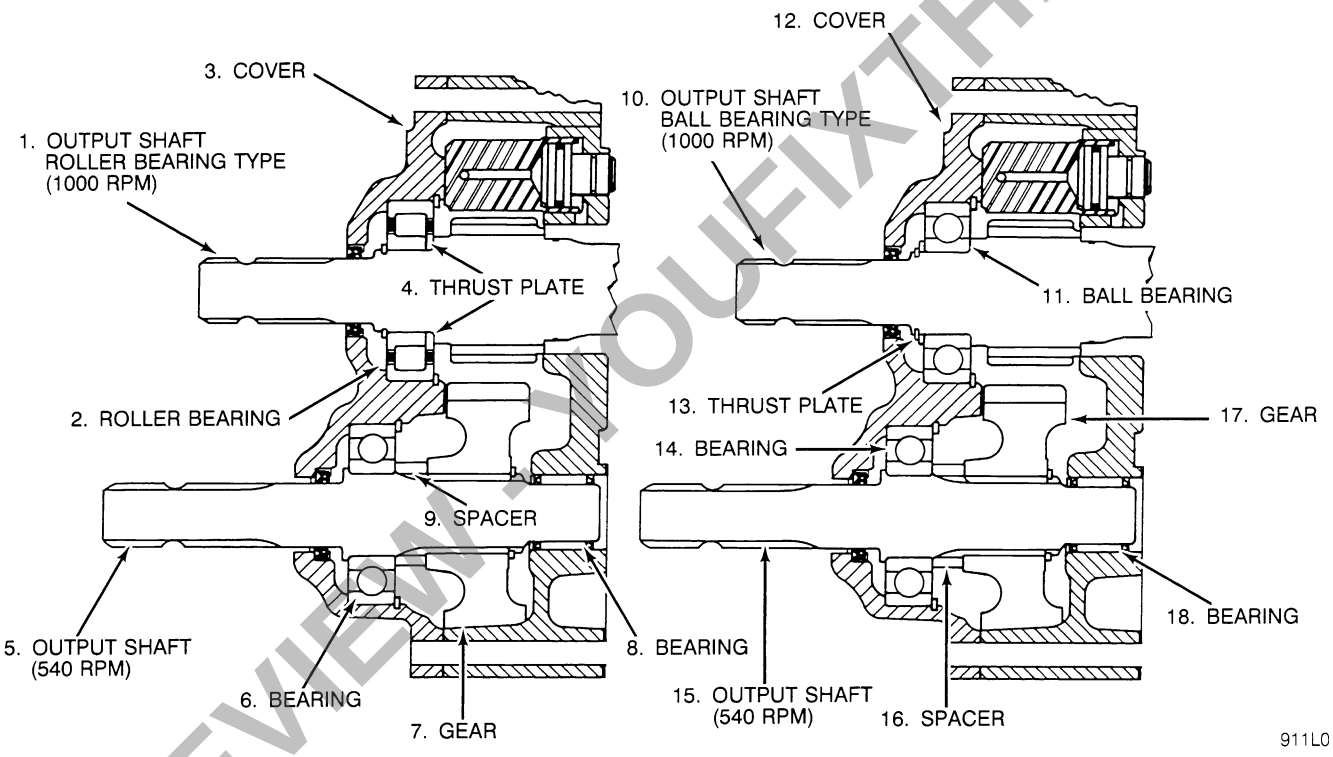


Install and tighten the two cover bolts.

STEP 114



Install the output shaft (1000 RPM) seal.



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Section 6012

MFD DIFFERENTIAL

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CASE CORPORATION

Rac 8-91961

Printed in U.S.A.
January, 1988 (Revised August, 1990)

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Section 8001

HYDRAULIC TROUBLESHOOTING

7100 Series Tractor

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Use this section with section 8012 Hydraulic Schematics.

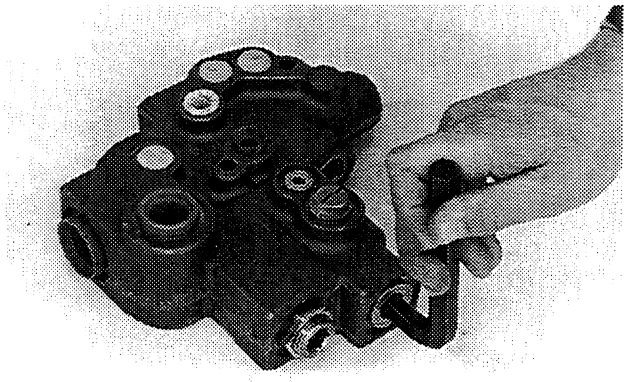
CASE CORPORATION

Rac 8-92013

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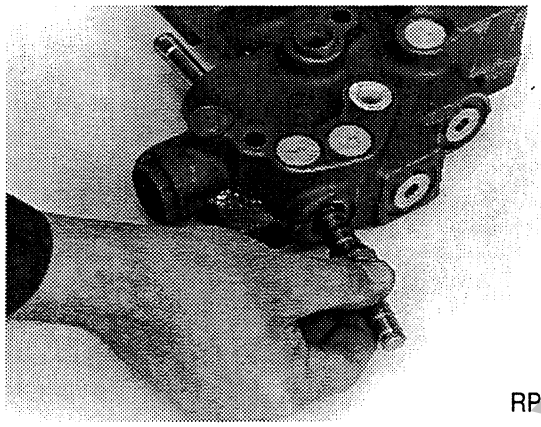
STEP 34



RP95M267

Install the plug.

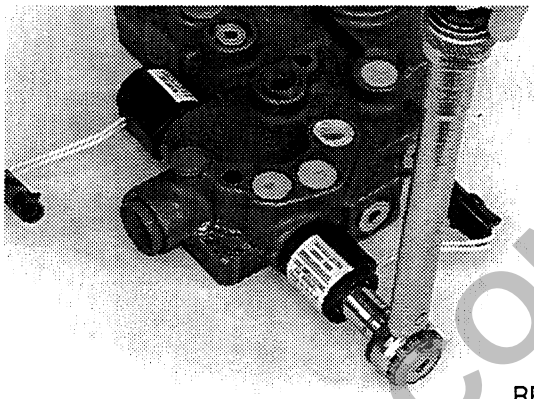
STEP 35



RP95M266

Lubricate the new o-ring seals on both the PTO solenoid and dif. lock solenoid assemblies. Install the solenoid assemblies and torque to 14 to 18 ft lbs (19 to 25 Nm).

STEP 36

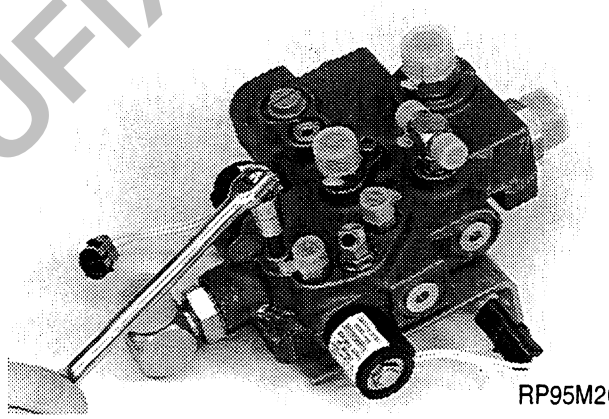


RP95M264

Install the coil assemblies onto the PTO solenoid and dif lock valve assemblies. Torque the retaining nuts to 4 to 6 ft lbs (5 to 6 Nm).

NOTE: *Excessive torque may damage the coil assemblies.*

STEP 37



RP95M261

Install the fittings with new o-rings into valve assembly. Mount the valve assembly onto the bracket. Torque the Allen bolts to 20 to 30 ft lbs (27 to 41 Nm).

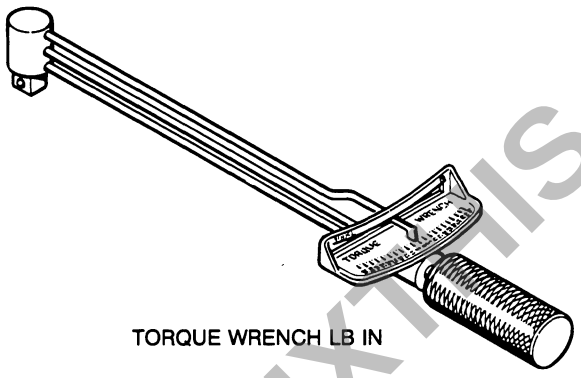
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SPECIAL TORQUES

	Decimal Value	Metric Value
Cartridge into the Valve Body	180 lb in	20 Nm
Solenoid Coil Jam Nut	30 to 40 lb in	3.4 to 4.5 Nm

SPECIAL TOOL



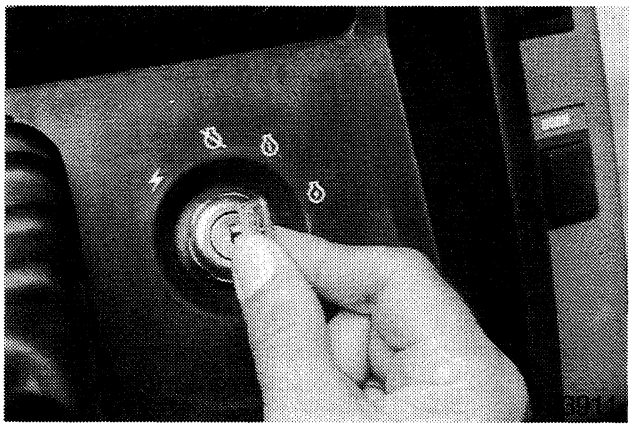
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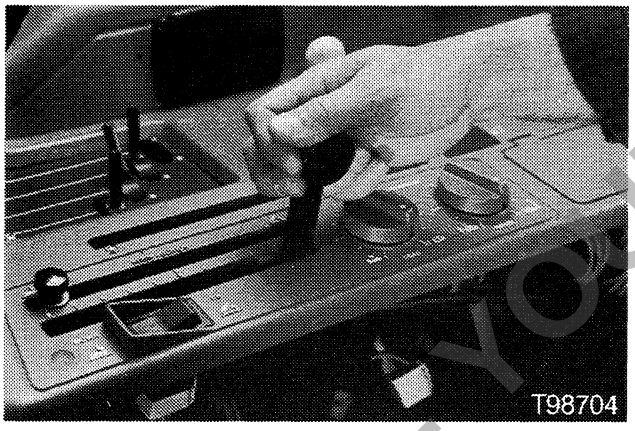
Hitch Free Travel Adjustment

STEP 45



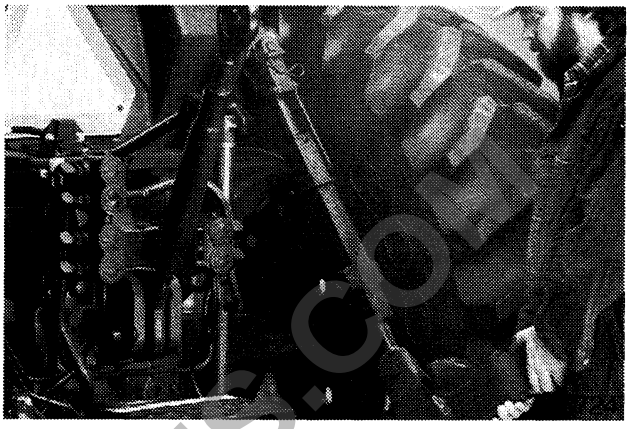
Turn the key switch and start the engine.

STEP 46



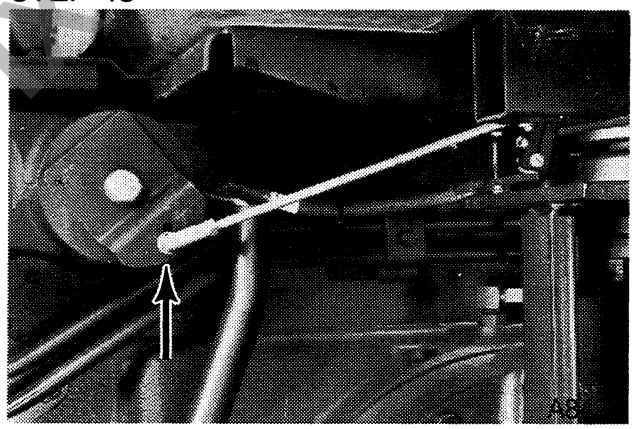
Slowly move the hitch control lever to the full raise position. The hitch cylinders must not be fully extended against the internal stop. The hitch valve solenoid must not be energized when the hitch is fully raised.

STEP 47



Manually lift the hitch. There must be approximately one inch of free travel as measured from the draft arm ball to the ground.

STEP 48



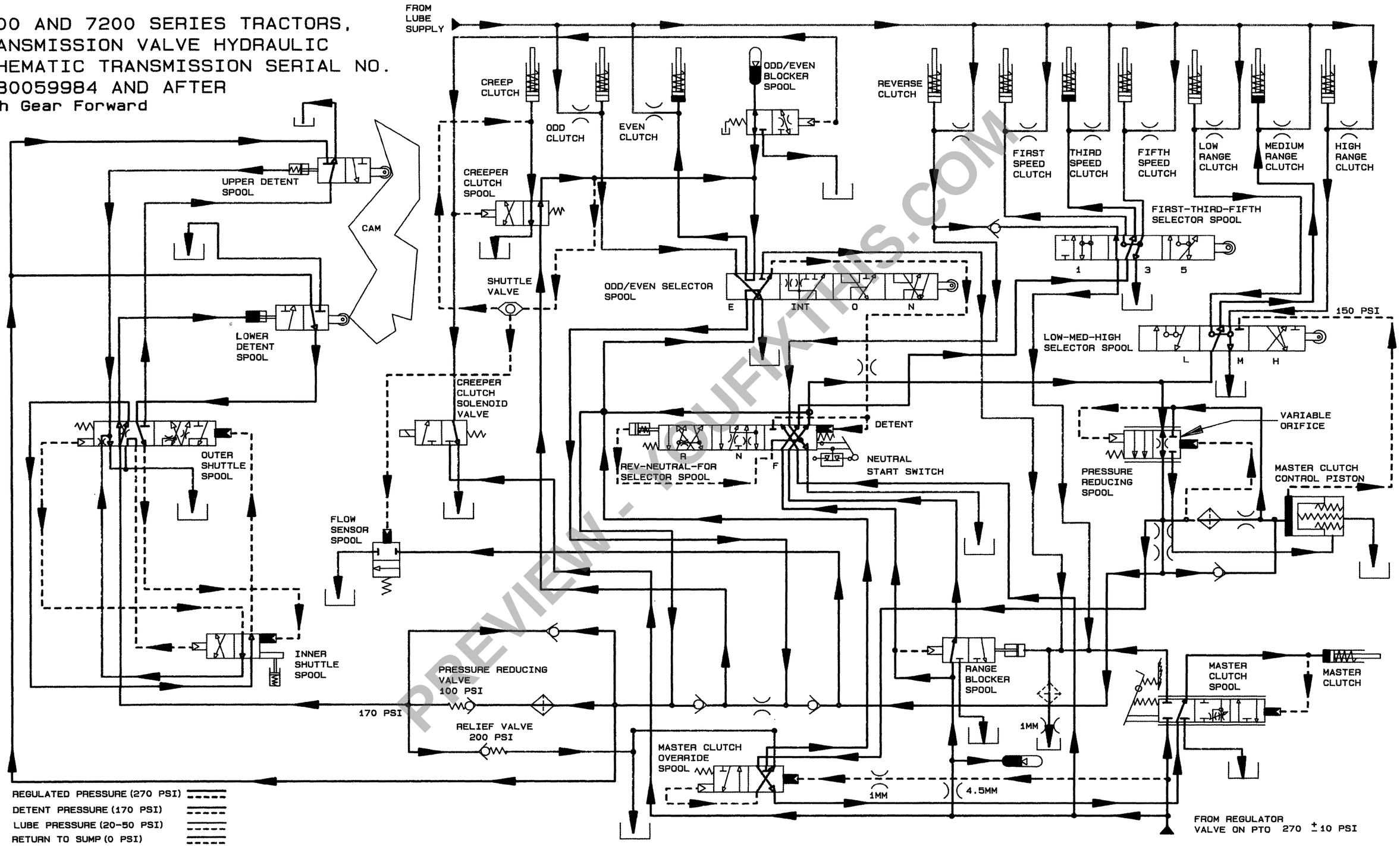
If there is more than one inch of free travel, move the link rod ball joint up in the rockshaft lever bracket slot. Tighten the ball joint retaining nut when the correct free travel is reached.

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7100 AND 7200 SERIES TRACTORS, TRANSMISSION VALVE HYDRAULIC SCHEMATIC TRANSMISSION SERIAL NO. AJB0059984 AND AFTER

10th Gear Forward



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(Not Enough Cooling Continued)

Thermostat Sensing Tube Low On Charge or out of Calibration - Indications:

A. Eccessive or incorrect compressor cycling.

B. Compressor clutch not engaging.

1. Inspect and repair the thermostat sensing tube. See Section 9001.

(Air in the System Continued)

4. Replace receiver-drier. The moisture removing material in receiver-drier could be full to capacity with moisture.

5. Check oil level in compressor - It is possible for compressor to lose oil. See Section 9004.

6. Remove air and moisture from the system. See Section 9003.

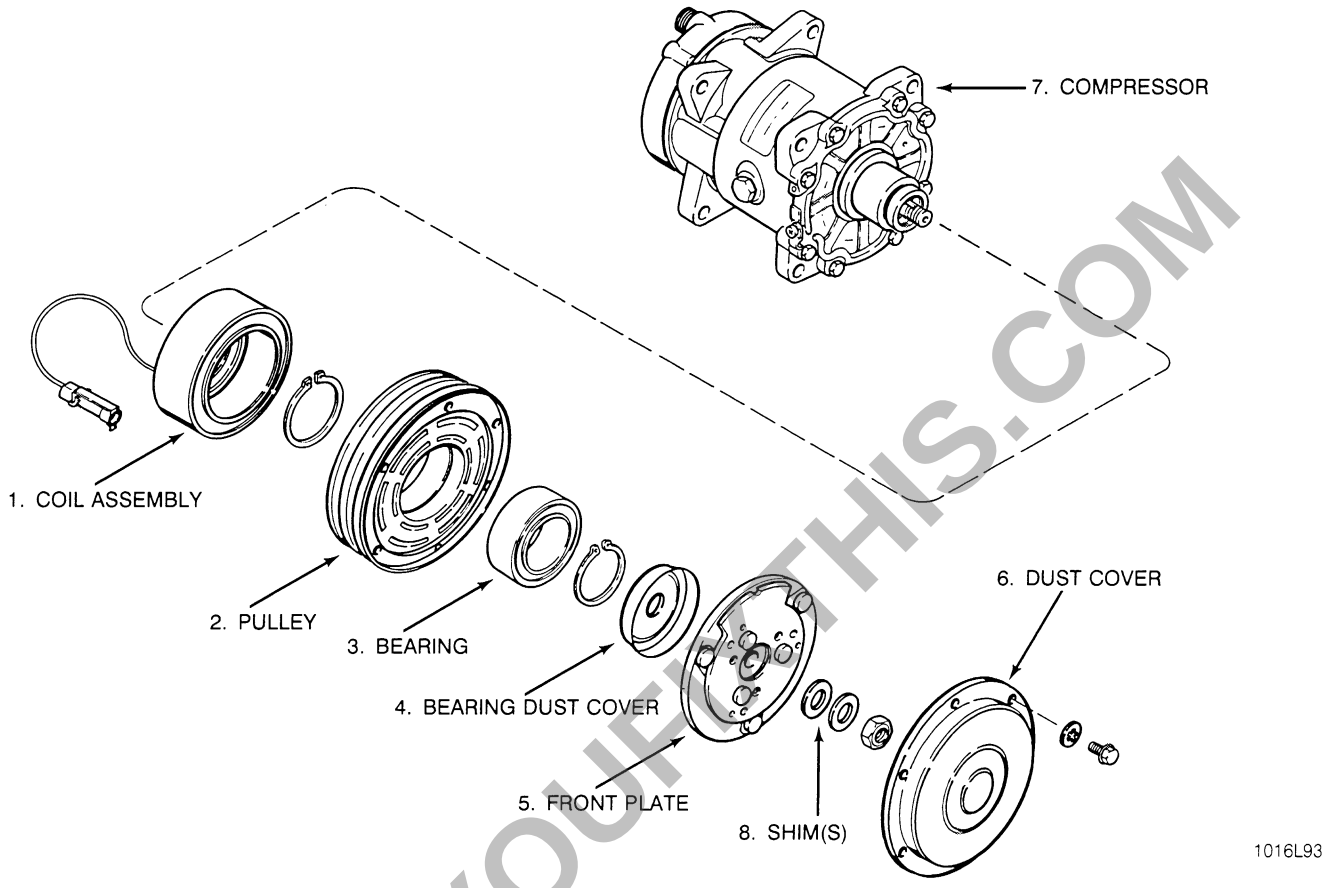
7. Charge system with new refrigerant. See Section 9003.

8. Continue performance test for other possible problems.

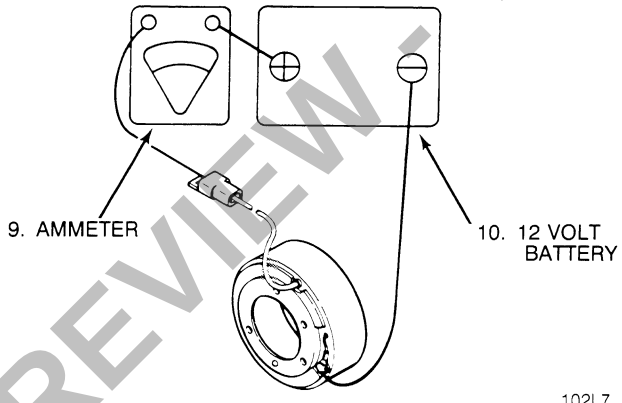
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Clutch Assembly



STEP 27



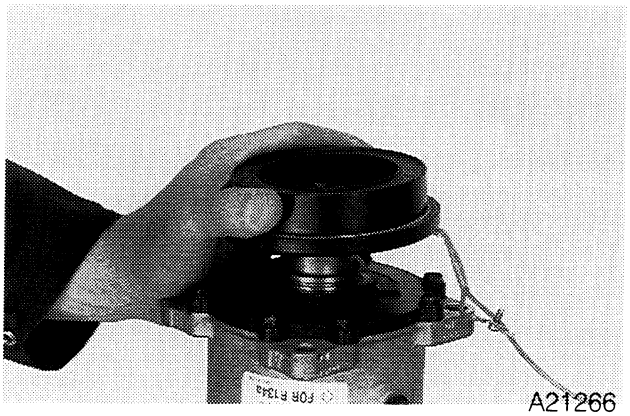
Use an ammeter, voltmeter and a 12 volt battery to check the amperage of the clutch coil. The current draw must be 3.6 to 4.2 amperes at 12 volts.

A reading of more than 4.2 amperes indicates a short within the coil.

No amperage reading indicates an open circuit in the coil.

Replace the clutch coil if the amperage reading is not correct.

STEP 28



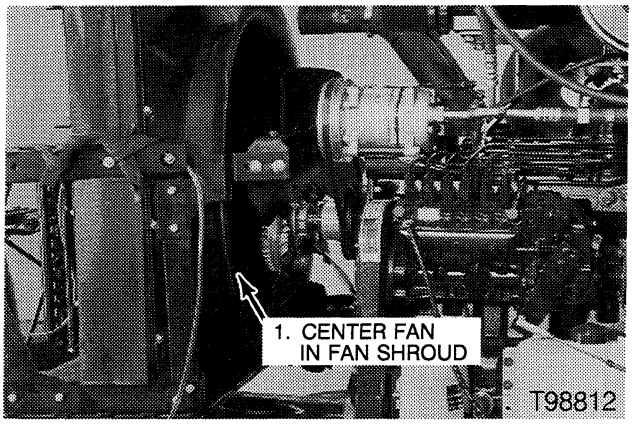
Install the clutch coil assembly. Align the detent ball and socket on the coil and housing.

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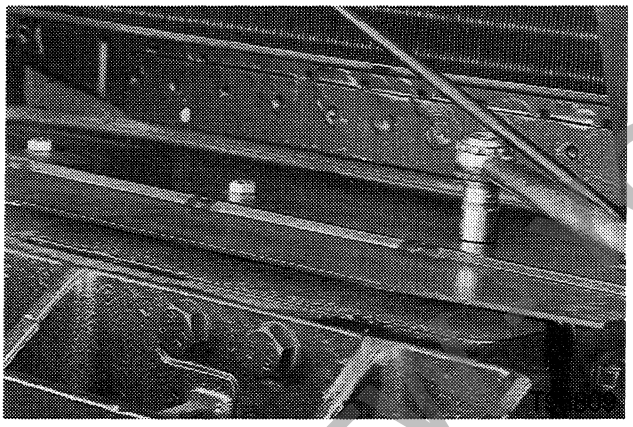
RADIATOR AND SUPPORT ASSEMBLY INSTALLATION

STEP 77



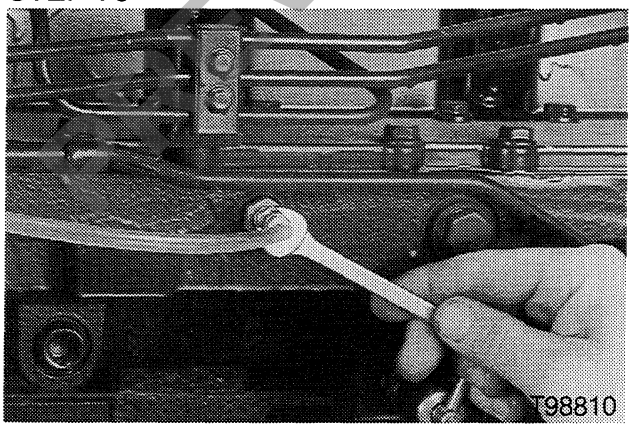
Install the radiator and support on the tractor. Make sure to center the fan. The distances from the fan shroud to the fan blades must not vary by more than 3 mm. Torque the fan shroud bolts to 15 to 17 lb ft (21 to 23 Nm).

STEP 78



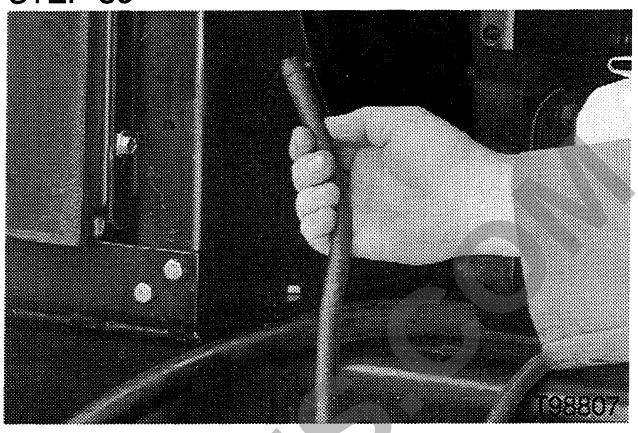
Install the five bolts that hold the radiator and support assembly to the tractor. Tighten the bolts to a torque of 34 to 38 lb ft (46 to 52 Nm).

STEP 79



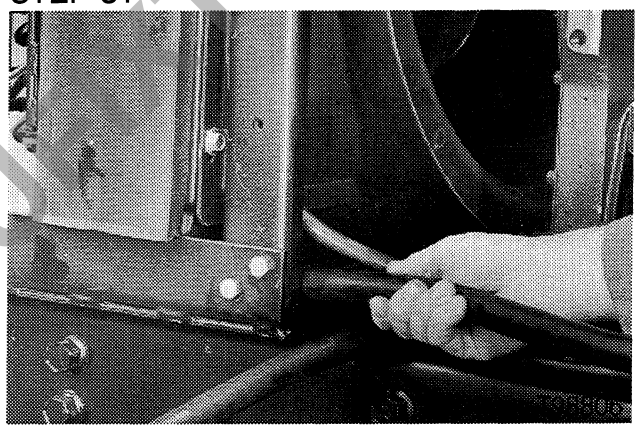
Connect and tighten the ether outlet tube to the nozzle in the intake manifold.

STEP 80



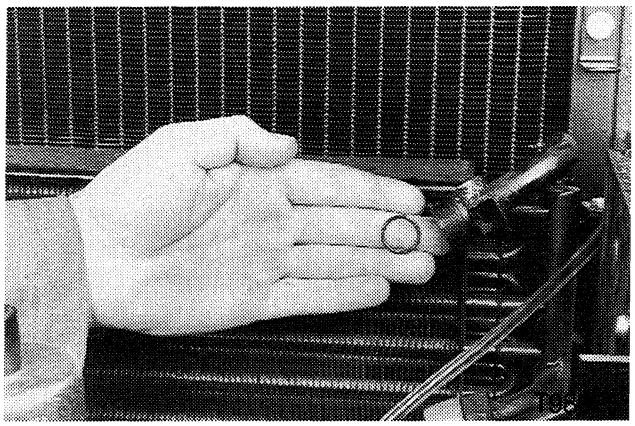
Install the coolant recovery hose into the clamps on the radiator shroud.

STEP 81



Push the oil cooler hoses through the opening between the radiator and support assembly. Install the foam for proper sealing.

STEP 82



Remove the plastic caps and install new o-rings in the fittings on the oil cooler.

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