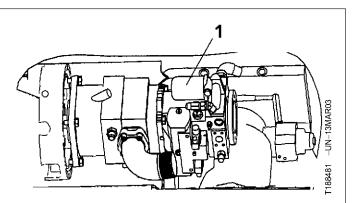
# Renew the pressure filter of the drive hydraulic system

- 1. Lift the cabin. The transmission filter is located above the transmission pump.
- 2. Turn filter counterclockwise to remove.
- 3. Clean mounting surface. Apply thin film of oil to gasket of new filter.
- Install new filter. Turn the filter by hand until the seal makes contact with the base. Use a filter wrench to turn the filter 30° further.
- 5. Start engine. Check for leaks around the filter base. Tighten filter only enough to stop leaks.
- 6. Stop engine.

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0320

 Check oil level at sight glass on hydraulic tank. Add oil, if necessary. See Section 6-1, for recommended hydraulic fluids.



1—Pressure filter

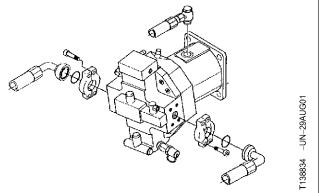
EL62757,0000117 -19-10APR02-1/1

### **Drive Motor Removal And Installation**

- CAUTION: Ensure that the engine is stopped and the main switch is in the 'OFF' position. Remove handle from the main switch before disconnecting any hydraulic components. Securely block the wheels to prevent machine movement. Failure to observe proper safety precautions can lead to risk of personal injury.
- NOTE: Following service instructions are general only. For detailed instructions for each Forwarder model, see group 0020 page 13 and enclosed Rexroth manuals.

#### To remove the Hydrostatic Drive Motor:

- 1. Tag and disconnect the hoses from the hydrostatic drive motor.
- 2. Attach a suitable lifting device to the Hydrostatic Drive Motor.



Hydrostatic Drive Motor, Hoses

TM2328 (15JAN05)

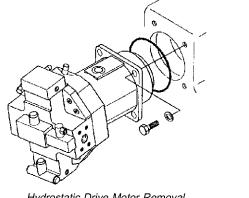
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OUTJ003,0000304 -19-18JAN01-1/3

John Deere 1490D Energy Wood Harvester

3. To remove the hydrostatic motor from the transfer case, remove the four socket head capscrews and slide the motor back 75 mm (3") to clear the spline. When the bolts are removed, ensure that the motor is adequately supported at all times to prevent damage to the spline and seals.

### To install the hydrostatic Drive Motor:



Hydrostatic Drive Motor Removal

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T138835 -UN-29AUG01

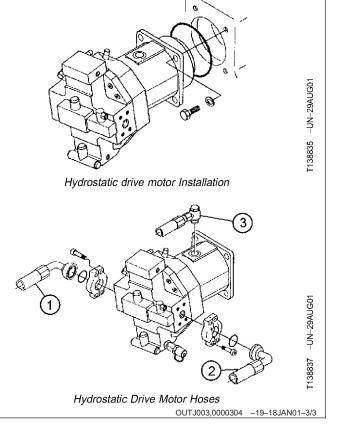
OUTJ003,0000304 -19-18JAN01-2/3

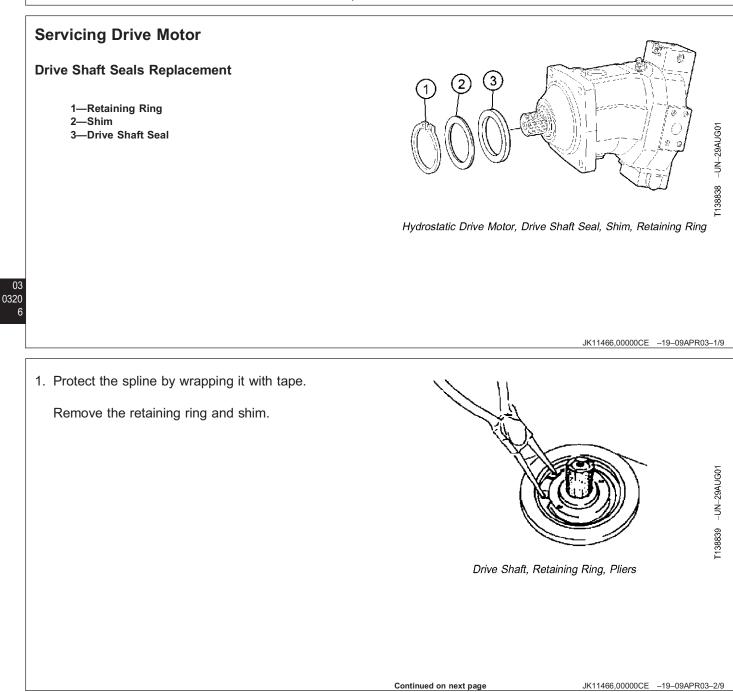
1. Replace O-ring before assembly.

Attach the hydrostatic motor to the transfer case with the four socket head capscrews. Tighten screws to specified torque.

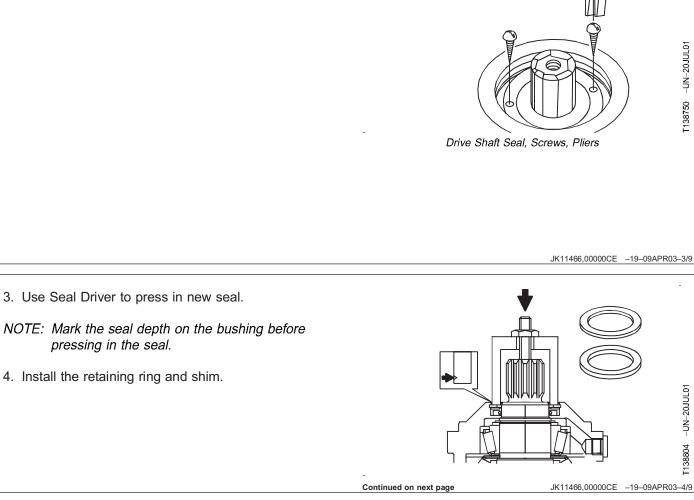
- 2. Connect the hoses to the hydrostatic motor.
- NOTE: After re-installing or replacing motor, see Hydrostatic Drive Motor Start-up procedure in Section 03, Group 0320 page 47.

1—Drive Pressure Hose 2—Drive Pressure Hose 3—Case Drain Hose





2. Insert two sheet metal screws into the rubber showing at the two holes in the metal backing of the seal. Use the screws as handles to lift out the seal.



### Constant Pressure Control Valve or Valve Seals Replacement

- 1. Remove mounting screws to remove valve.
- NOTE: Use care when removing valve. Valve is under spring load.

Note the length of the adjustment screw.

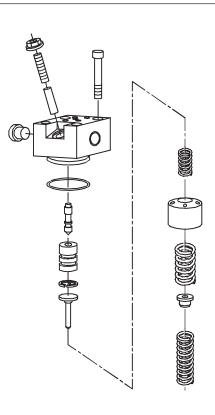
NOTE: Do not remove adjustment screw.

2. Replace the o-ring.

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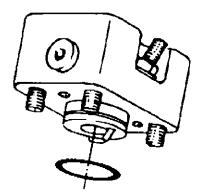
- 3. Lubricate the alignment pin with grease. Install pin on valve.
- 4. Install valve on Hydrostatic Drive Motor.



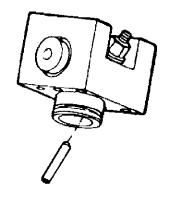
T138843 -UN-20JUL01

T138844 -UN-29AUG01

Constant pressure control valve, O-ring



Constant Pressure Control Valve



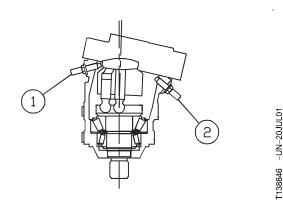
age JK11466,00000CE -19-09APR03-5/9 John Deere 1490D Energy Wood Harvester

T138845 -UN-29AUG01

### Port Plate Seal Replacement

- NOTE: In order to disassemble the motor, the rotary group must be swiveled to line up with the output shaft (zero position).
- 1. Measure and record the setting of the Displacement Limiter Adjustment Screws.

1—Minimum Displacement Limiter Screw 2—Maximum Displacement Limiter Screw



Hydrostatic Drive Motor Section View, Displacement Limiter Screws

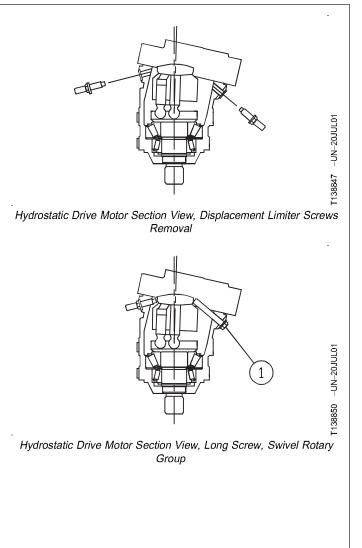
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2. Remove the Minimum Displacement Limiter Screw and plug the port.

Remove the Maximum Displacement Limiter Adjustment Screw.

3. Install a long screw in the maximum displacement limiter port and swivel the rotary group to the zero position.



Continued on next page 03-0320-9 Jc JK11466,00000CE -19-09APR03-7/9

Drive Hydraulics Service

4. Mark the position of the port plate to ease re-assembly.

Remove the mounting screws.

Remove the port plate.

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- 5. Replace the o-ring. Apply a coating of grease to new o-ring to hold it in place.
- NOTE: Keep the rotary group vertical. The piston rings should project beyond the cylinder bores.
- 6. Inspect the sliding surfaces of the control lens and port plate.
- 7. Install port plate. Use a coating of grease to hold the control lens in position. Install mounting screws.

T138851 -UN-29AUG01 Hydrostatic drive Motor, Alignment Mark T138852 -UN-29AUG01 Hydrostatic Drive Motor Housing, Port Plate Removed, Seal O  $\cap$ T138853 -UN-29AUG01

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JK11466,00000CE -19-09APR03-8/9

063005 PN=202

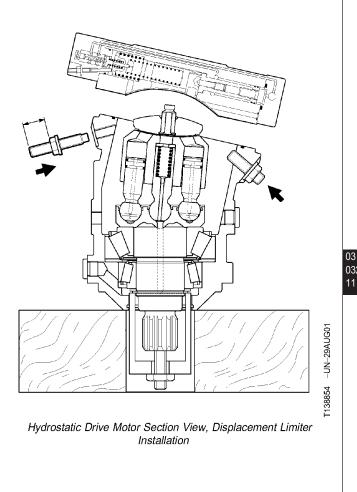


8. Install Minimum Displacement Limiter. Confirm that it is installed to the correct depth.

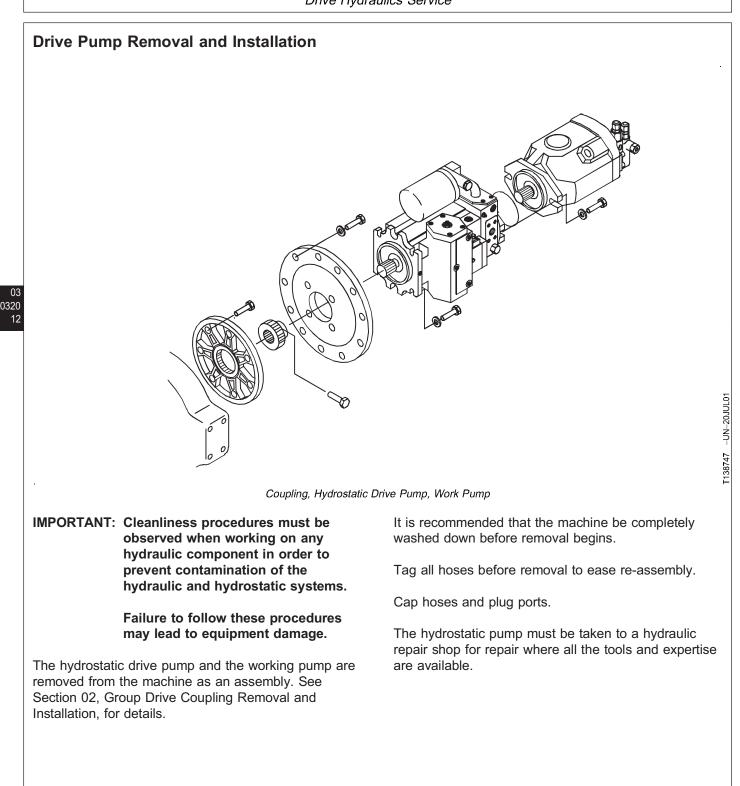
Remove long screw from Maximum Displacement Limiter port. Install Maximum Displacement Limiter. Confirm that it is installed to the correct depth.

NOTE: The start-up procedure should always be followed when the hydrostatic pump or motor has been removed or replaced.

> See the Hydrostatic Pump and Motor Start-up Procedure in Group 0320.

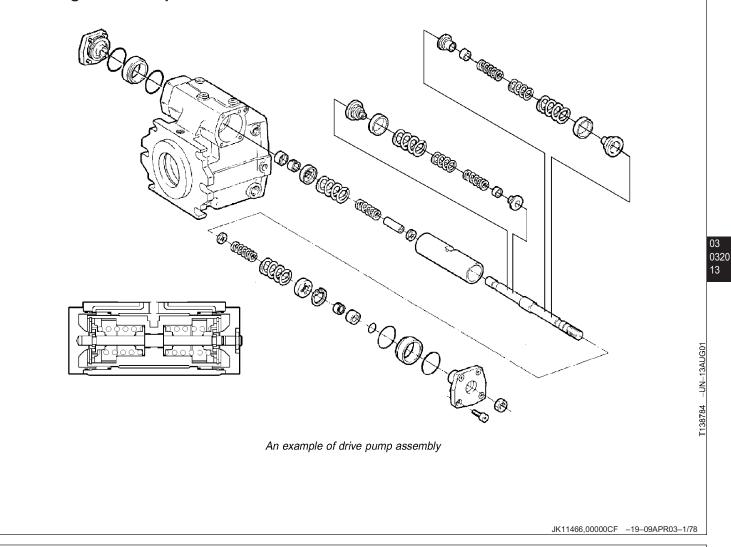


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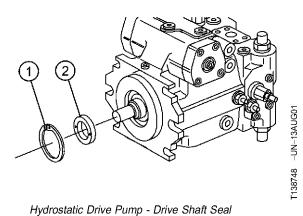
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### **Servicing Drive Pump**



### **Drive Shaft Seal Replacement**

1—Retaining Ring 2—Drive Shaft Seal



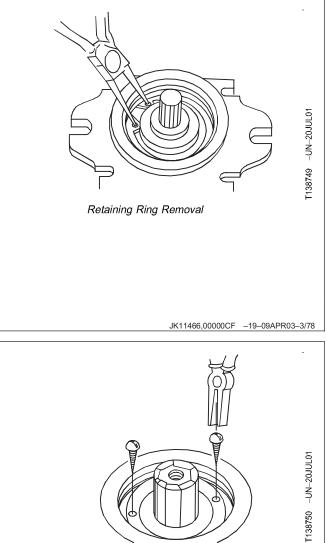
TM2328 (15JAN05)

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JK11466,00000CF -19-09APR03-2/78 John Deere 1490D Energy Wood Harvester

063005 PN=205

- 1. Protect the drive shaft spline by wrapping it with tape.
- 2. Use pliers to remove the retaining ring.

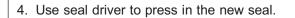


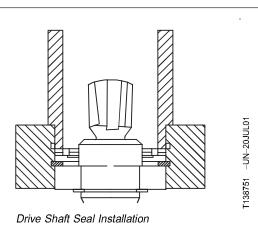
03 0320 14

3. Insert two sheet metal screws into the rubber showing at the two holes in the metal backing of the seal. Use the screws as handles to lift out the seal.

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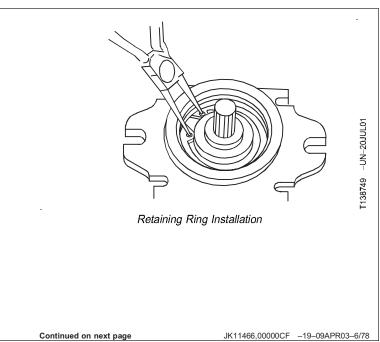




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6. Remove the tape from the drive shaft spline.

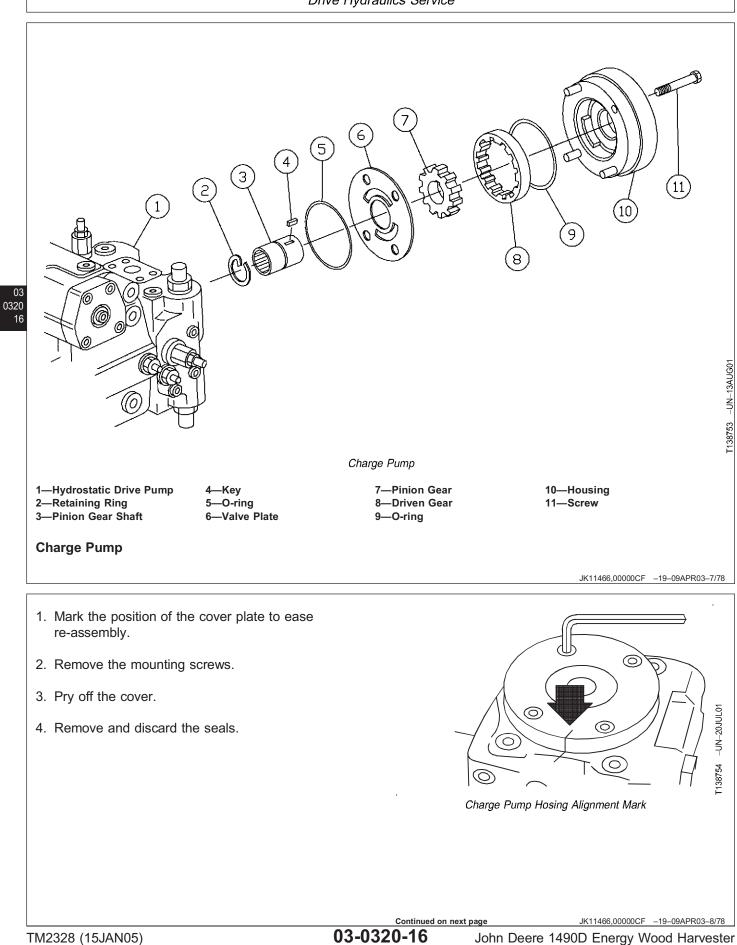


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