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NO: Check for properly tensioned fan belt. (See Check and Adjust Alternator Belt Tension .) Find and repair the cause of cooling system malfunction.

(6) Step 6

Action:

Is cylinder compression within specification? (See Test Cylinder Compression .)

Result:

YES: Go to next step.

NO: Repair or replace engine as necessary. (See Remove and Install Cylinder Head , Recondition Cylinder Head , and Cylinder Bore .)

(7) Step 7

Action:

Are valves properly adjusted? (See Adjust Valve Clearance .)

Result:

YES: Go to next step.

NO: Adjust valve clearance.

(8) Step 8

Action:

Are carburetor and intake manifold flanges properly sealed - no air leaks?

Result:

YES: Go to next step.

NO: Seal flanged surfaces as required. (See Remove and Replace Carburetor and Remove and Install Intake Manifold .)

(9) Step 9

Action:

Is carburetor clean and free of any build-up in fuel and air passages? (See Remove and Replace Carburetor .)

Result:

NO: Clean carburetor as necessary.

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Remove and Install Cylinder Head

Removal

[1] - Park machine safely.

[2] - Stop engine.

[3] - Remove engine cover.

[4] - Tilt seat forward.

[5] - Disconnect battery negative (-) cable from battery.

[6] - Allow engine to cool, and cooling system pressure to return to zero.

[7] - Drain coolant from radiator and engine block drain valves.

[8] - Remove air cleaner. (See Air Cleaner Removal.)

[9] - Remove carburetor. (See Carburetor Removal.)

[10] - Remove alternator belt.

[11] - Remove upper exhaust pipe from exhaust manifold.

[12] - Remove exhaust manifold. (See Remove and Install Exhaust Manifold .)

[13] - Disconnect spark plug wires from spark plugs.

[14] - Remove ignition coil bracket.

[15] - Remove intake manifold. (See Remove and Install Intake Manifold .)

[16] - Disconnect coolant temperature sensor.

[17] - Remove upper and lower coolant hoses from water pump and radiator.

[18] - Remove water pump.

[19] - Remove rocker arm cover. (See Remove and Install Rocker Arm Cover .)

[20] - Remove rocker arm assembly, push rods, and valve caps from cylinder head. (See Rocker Arm and Push Rod .)

[21] -

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IMPORTANT:

Rotating the crankshaft will cause Plastigage® to smear, resulting in a false reading. Do not allow crankshaft to rotate after installing bearing cap.

→NOTE:

Lightly lubricate bolts with engine oil before installing.

Install main bearing cap and bolts. Tighten bolts to specification.

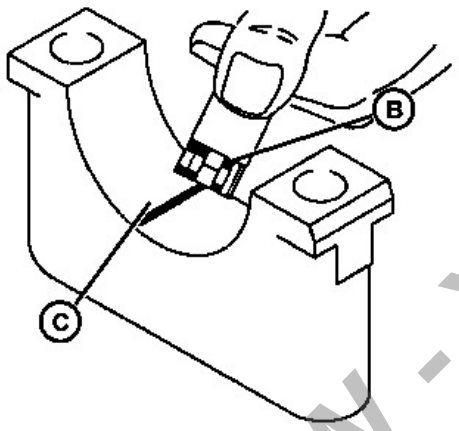
Item	Measurement	Specification
Main Bearing Cap Screw	Torque	79—83 N·m (58—62 lb-ft)

[6] - Remove bolts and main bearing cap.

[7] -

→NOTE:

The flattened Plastigage® will be found on either the bearing insert or crankshaft journal.



LEGEND:
B Envelope
C Plastigage®

Determine Main Bearing Clearance

Use the graduation marks on the envelope (B) to compare the width of the flattened Plastigage® (C) at its widest point. The number within the graduation marks indicates the bearing clearance in inches or millimeters depending on which side of the envelope is used.

[8] - Main bearing clearance must be to specification.

Item	Measurement	Specification
Main Bearing	ID (Standard)	43.93 mm (1.729 in.)
Main Bearing	Oil Clearance	0.12 mm (0.005 in.)

[9] - Remove Plastigage® .

Results:

If the clearance exceeds maximum specification, replace the bearing inserts.

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Test Engine Oil Pressure

Reason

To determine if the engine bearings or the lubrication system components are worn.

→NOTE:

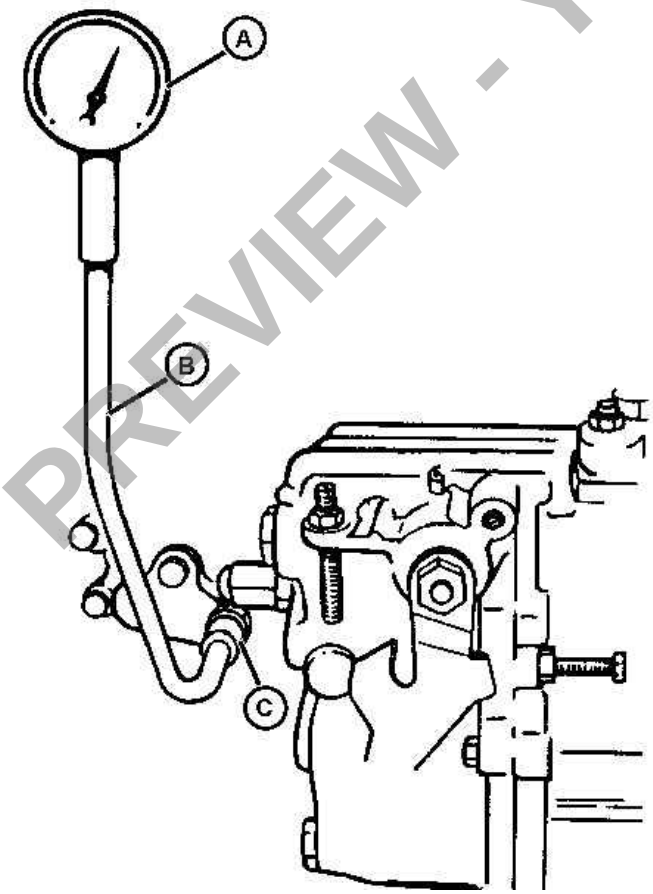
The connector, hose assembly, and gage are found in other SERVICEGARD ™ test kits.

Special or Required Tools

- JT03349 Connector
  Connector
  JT03349
  Used to connect gage to oil pressure switch port.
- JT03017 Hose Assembly
  Hose Assembly
  JT03017
  Used to connect gage to oil pressure switch port.
- JT07034 0—700 kPa (0—100 psi) Gage
  0—700 kPa (0—100 psi) Gage
  JT07034
  Used to measure engine oil pressure.

Procedure

[1] -

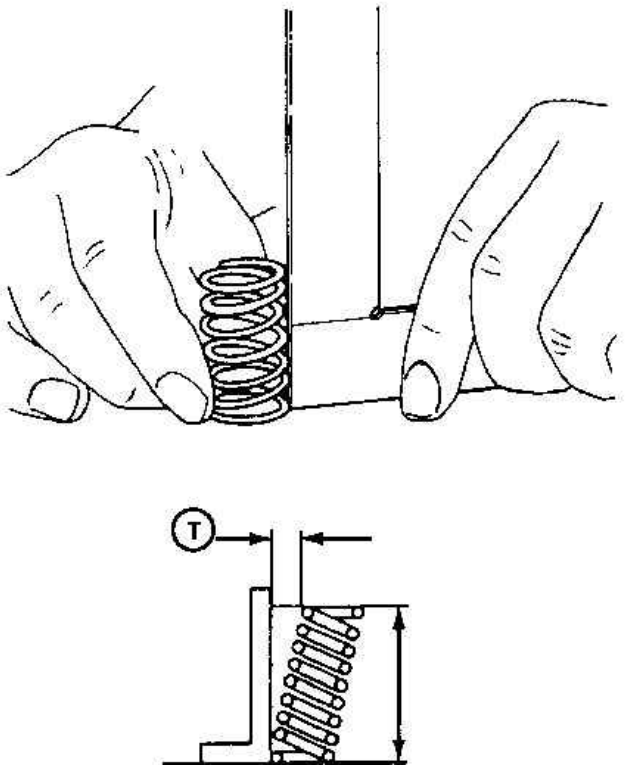


LEGEND:

A	JT07034 Gage
B	JT03017 Hose Assembly
C	JT03349 Connector

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LEGEND:
T Valve Spring Inclination

Measure valve spring inclination.

Measure spring inclination (T). Replace spring if measurement exceeds specification.

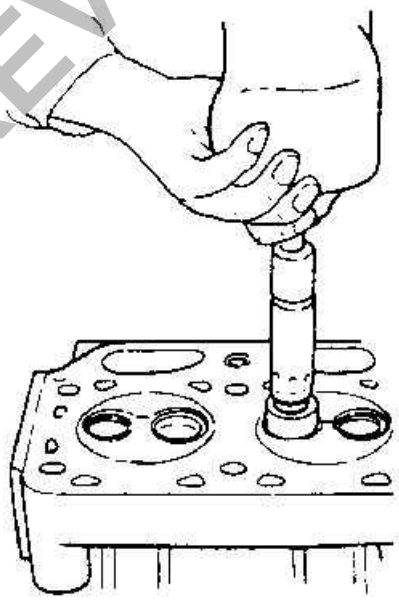
Item	Measurement	Specification
Valve Spring (3TNE74)	Inclination (Maximum)	1.0 mm (0.039 in.)
Valve Spring (3TNV76, 3TNV80)	Inclination (Maximum)	1.3 mm (0.051 in.)

Valve Seat Grinding

→NOTE:

Lightly grind valve seats for only a few seconds to avoid excessive valve seat width. If valve guide is to be replaced, always replace guide before grinding valve seat, as seat grinder pilot is centered by guide.

[1] -



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Remove and Install Water Pump (Thermostat Included)

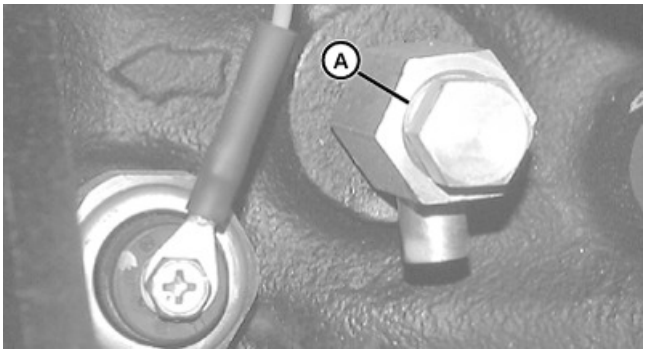
Removal

[1] - Park machine on level surface with park brake locked.

[2] - Allow engine to cool and pressure in cooling system to drop before working on water pump.

[3] - Disconnect battery negative (-) cable from battery.

[4] -



LEGEND:

A	Engine Drain Valve

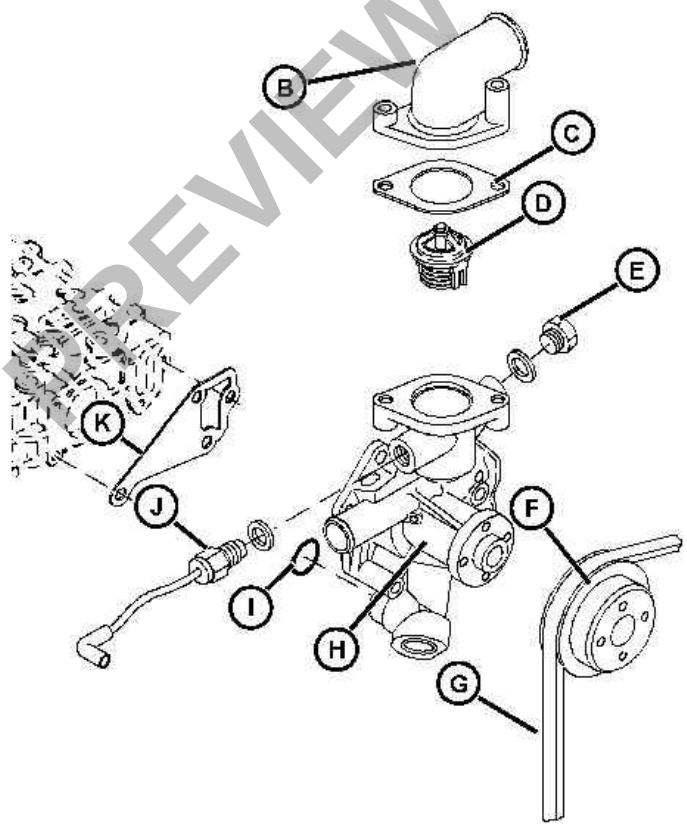
Engine Drain Valve

Open engine drain valve (A) to drain coolant from cylinder block.

[5] - Disconnect upper and lower radiator hoses from water pump.

[6] - Loosen alternator mounting cap screws and remove water pump/alternator drive belt.

[7] -



LEGEND:

A	Thermostat Housing
B	Gasket
C	Thermostat
D	Plug
E	Sheave
F	Belt
G	Water Pump
H	O-Ring
I	Coolant Switch
J	Gasket

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(2) Step 2

Action:

Even volume of fuel injected?

Result:

YES: Go to next step.

NO: Replace faulty fuel injector pump or fuel injectors.

(3) Step 3

Action:

Intake and exhaust valve clearance correct?

Result:

YES: Go to next step.

NO: Adjust valve clearance. (See Valve Clearance Adjustment .)

(4) Step 4

Action:

Proper spray pattern from injectors?

Result:

YES: Go to next step.

NO: Clean or replace fuel injector nozzles. (See Fuel Injection Nozzle Test .)

(5) Step 5

Action:

Intake or exhaust valves not seized?

Result:

YES: Go to next step.

NO: Replace valve and check valve guide. (See Cylinder Head Inspection/Replacement under Cylinder Head and Valves Disassembly and Assembly and Intake and Exhaust Valves .)

(6) Step 6

Action:

Piston rings not broken or seized?

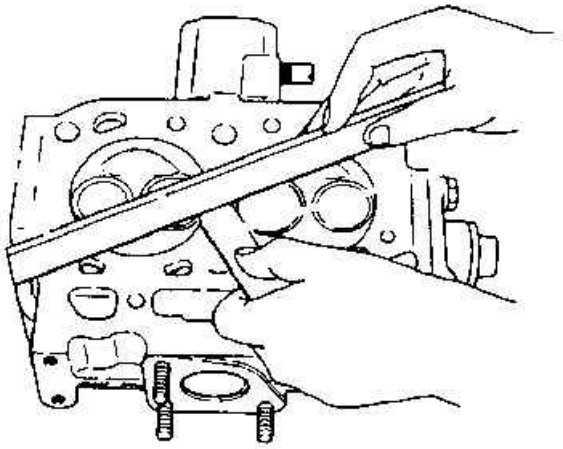
Result:

NO: Replace rings. Replace pistons if damaged. Bore cylinder if damaged. (See Piston and Connecting Rod and Cylinder Bore (3TNV82A, 3TNV88) .)

Symptom: Engine Runs Rough - Engine Surges UNDER LOAD

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Measuring Flatness

[1] - Measure the cylinder head flatness. Place a straightedge along each of the four sides and each diagonal. Measure clearance between straightedge and gasket surface with a feeler gage.

- If the distortion exceeds specification, but is less than wear limit, resurface the cylinder head.

Item	Measurement	Specification
Cylinder Head Distortion	Out-of-Flat	0.0—0.05 mm (0.0—0.002 in.)

- If the distortion is in excess of wear limit, replace the cylinder head.

Item	Measurement	Specification
Cylinder Head Distortion	Out-of-Flat (Maximum)	0.15 mm (0.006 in.)

[2] - Inspect for cracks or other damage.

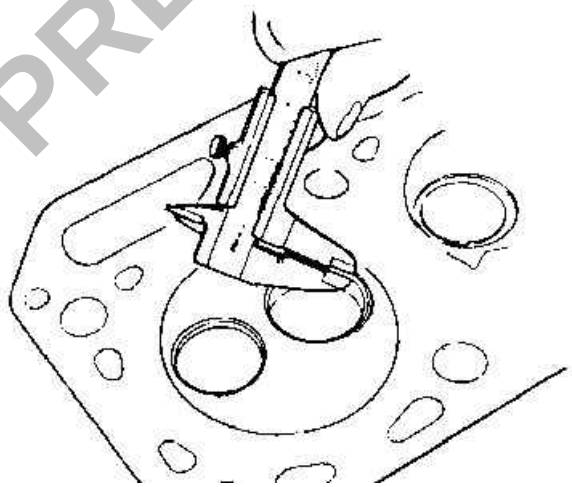
[3] - Inspect condition of valve seats and measure valve seat width. (See Valve Seats .)

[4] - If the cylinder head was resurfaced, measure valve recession. (See Valve Recession .)

Valve Seats

→NOTE:

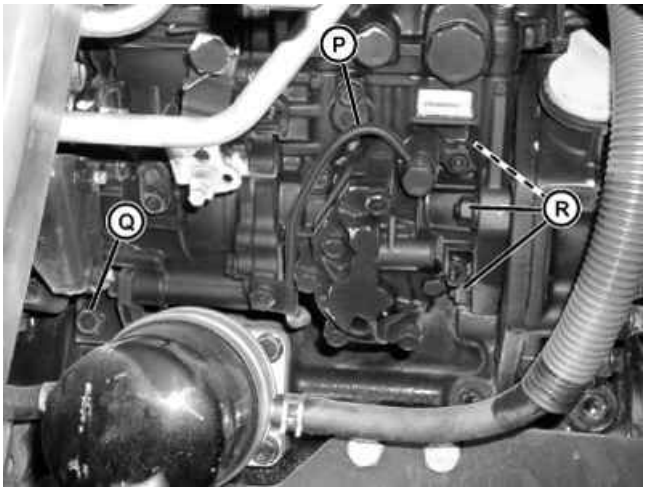
The valve seats are not replaceable. If inspection of the cylinder head reveals valve seats that are damaged or worn beyond repair, the cylinder head must be replaced.



Measure Valve Seat Width

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Pump Connections

Note the position of timing marks on gear cover mounting plate (N) and injection pump (O).

IMPORTANT:

Pump must be installed at exact location from which it was removed.

[14] - Remove lube line (P) from pump.

[15] - Remove cap screw (Q) from bracket.

[16] -

IMPORTANT:

Do not attempt to service the injection pump or governor. If unit is in need of repair, it must be serviced by a qualified fuel injection repair shop. If replacement is necessary, replace the entire unit.

Remove three pump mounting nuts (R) and remove pump.

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Circuit Number	Wire Size (mm2)	Wire Color	Termination Points
830	1.0	Pnk	X40 (B), X12 (B)
831	1.0	Pnk	X46 (B), X12 (B)
832	1.0	Pnk	X12 (D), X14 (A)
833	1.0	Pnk	X14 (B), X44 (87)
834	1.0	Pnk	X44 (30), Splice 6
835	0.8	Pnk	X44 (85), X13 (A)
836	1.0	Pnk	X13 (A), Splice 6
837	1.0	Pnk	X14 (C), Splice 6
838	1.0	Pnk	X40 (B), X46 (B)
840	1.0	Gry	X16 (D), Splice 6
900	3.0	Wht	X27, X19 (87)
910	3.0	Wht	X29 (B), Splice 9
911	3.0	Wht	X18 (87), Splice 9
912	3.0	Wht	X16 (F), Splice 9

Main Wiring Harness (W4) - 1435 Diesel Engine (1 of 4)

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IMPORTANT:

Do not insert any test probes into female terminals of METRI-PACK™ connectors. Damage to terminals may occur. Touch terminals lightly with probes when testing.

→NOTE:

If a wire is determined to be faulty, the only recommended repair is to replace the entire wiring harness.

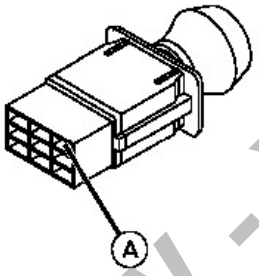
Cranking Circuit Diagnosis - 1435, 1445, 1545, 1565 Diesel Engine: Test Procedure A

(1) Step 1

Action:

Test Conditions

- Machine parked safely.
- Key switch in START position.
- PTO switch in DISENGAGED position.
- Brake applied (brake switch in BRAKES LOCKED position).



LEGEND:

A	410 Yellow Wire

410 Yellow Wire of PTO Switch (S3)

Is there 11.8-13.2 VDC measured at 410 Yel wire (A) of PTO switch (S3)?

Result:

YES: Go to next step.

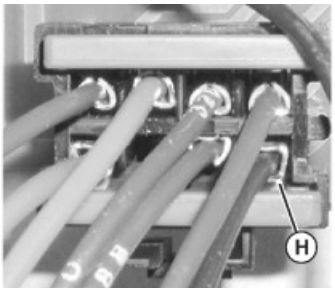
NO: Check power circuit. (See System: Power Circuit Diagnosis - 1435, 1445, 1545, 1565 Diesel Engine .)

(2) Step 2

Action:

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LEGEND:
H 195 Black Wire

195 Black Wire of Control Module Connector (X40)

With diode pack (V1) connected, connect 195 Blk wire (H) of control module connector (X40) to ground with a jumper wire. Does PTO shutdown relay (K4) energize?

Result:

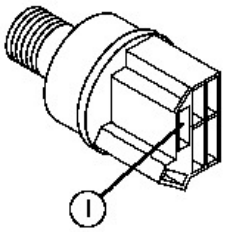
YES: Go to next step.

NO: Replace control module.

(8) Step 8

Action:

LEGEND:
I 190 Black Wire



190 Black Wire of Key Switch Connector (X4)

Is there less than 0.1 ohm of resistance measured between 190 Blk wire (I) of key switch connector (X4) and ground?

Result:

YES: Go to next step.

NO: Check 190 Blk wire, 110 Blk wire, 100 Blk wire, and connections.

(9) Step 9

Action:

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System: Engine Ignition Circuit Diagnosis - 1420 Gas Engine

65

Test Procedure A

(1) Step 1

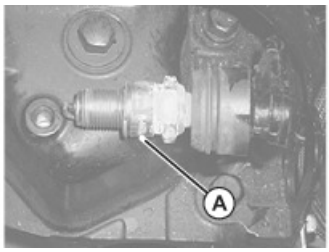
Action:

CAUTION:

To avoid electric shock, use an insulated pliers to hold plug when performing spark test.

Test Conditions

- Machine parked safely.
- Park brake LOCKED.
- PTO switch at the DISENGAGED position.
- Key switch in START position (engine cranking).
- Meter or test light negative (-) lead on battery negative (-) terminal or chassis ground.
- Check connections for corrosion and looseness when testing.
- Spark plug wire disconnected from spark plug of cylinder being tested.
- Spark plug wire being tested hooked up to a known good spark plug.
- Spark plug grounded against engine block.
- Disconnect Org/Blk wire from ignition coil positive (+) terminals of cylinders not being tested.



LEGEND:

A Grounded Plug

Grounded Plug

While cranking the engine, is a sharp blue spark present at the grounded plug (A) being tested?

Result:

YES: Repeat test for remaining cylinders.

NO: If there is no spark from all cylinders: Go to Test Procedure B. If there is no spark from one cylinder: Go to Test Procedure C) If the spark is weak and/or yellow: Go to Test Procedure D.

Test Procedure B

(1) Step 1

Action:

IMPORTANT:

Do not insert any test probes into female terminals of METRI-PACK™ connectors. Damage to terminals may occur. Touch terminals lightly with probes when testing.

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Procedure:

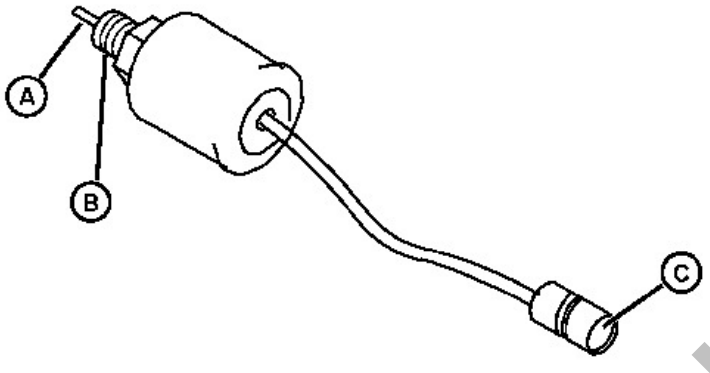
CAUTION:

Keep gasoline away from sparks, flame, or hot engine parts or personal injury can result.

[1] - Disconnect fuel shutoff solenoid connector.

[2] - Remove fuel shutoff solenoid, washer and float bowl.

[3] -



LEGEND:

A	Push Plunger
B	Solenoid Threads
C	Solenoid Terminal

Fuel Shutoff Solenoid Shown Removed for Testing

Connect a jumper wire from the battery positive (+) terminal to solenoid terminal (C).

[4] -

→NOTE:

It may be necessary to push plunger (A) inward slightly for plunger to retract.

Connect a jumper wire from the battery negative (-) terminal to solenoid threads (B). Plunger should now retract with the solenoid energized.

[5] - Remove jumper wire from the battery negative (-) terminal. Plunger should extend.

Results:

If plunger does not move, replace solenoid.

HVAC Switch Test

Reason:

To verify proper HVAC switch operation.

Special or Required Tools

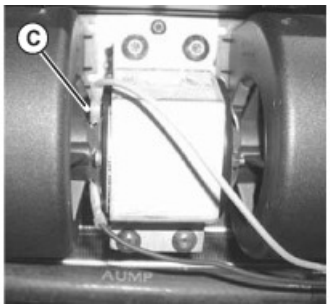
- Ohmmeter or Continuity Tester

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(3) Step 3

Action:



LEGEND:
C Orange-2 Wire

Orange-2 Wire of Blower Motor (M2)

Is there 11.8-13.2 VDC measured at Org-2 wire (C) of blower motor (M2)?

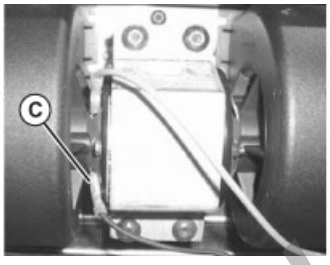
Result:

YES: Go to next step.

NO: Check Org-2 wire and connections between blower motor resistors and blower motor.

(4) Step 4

Action:



LEGEND:
C Black-2 Wire

Black-2 Wire of Blower Motor (M2)

Is there less than 0.1 ohm of resistance measured between Blk-2 wire (C) of blower motor (M2) and ground?

Result:

YES: Replace blower motor.

NO: Check Blk-2 wire and connections.

Cab Blower Circuit Operation

Function:

Provides power to 2-speed blower motor circuit.

Operating Conditions:

- Key switch in the RUN position.

Theory of Operation:

When the key switch is in the RUN position, voltage is available to blower motor switch (S9) Red wire through the harness

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LEGEND:

BB	Motor Thrust Plate
BC	Lower Swash Plate Bearing
BD	Snap Ring
BE	Cap Seal

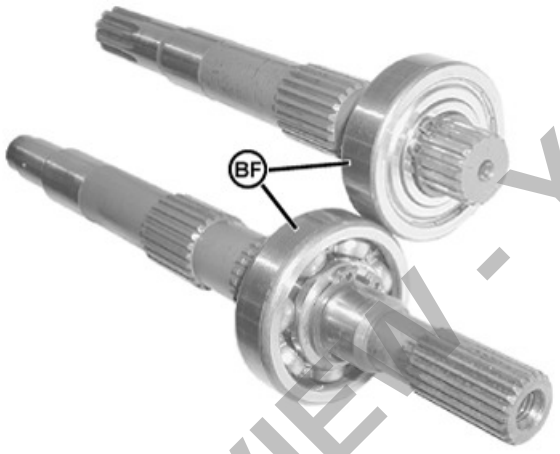
Hydro Case Interior

Remove motor thrust plate (BB) using a brass O-ring pick.

[43] - Inspect lower swash plate bearing (BC) for excessive wear or scoring.

[44] - If excessive wear or scoring is detected, remove snap ring (BD) and cap seal (BE) and replace lower swash plate bearing.

[45] -



LEGEND:

BF	Motor Shaft Bearings

Hydro Motor Shaft Bearings

Inspect input shaft and motor shaft bearings (BF). Replace as necessary.

[46] - If repairing or inspecting PTO, see (Disassemble, Inspect, and Assemble PTO).

[47] - If repairing or inspecting 4WD gear case, see (Disassemble, Inspect, and Assemble 4WD Gear Case).

[48] - Remove all gaskets and clean all gasket surfaces.

Assembly

[1] - Clean and dry all parts.

[2] -

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[8] - Install needle bearing (K), washer (L) and bearing (M).

4WD Gear Case Assembly

IMPORTANT:

Press on inner race only to avoid damaging bearing.

→NOTE:

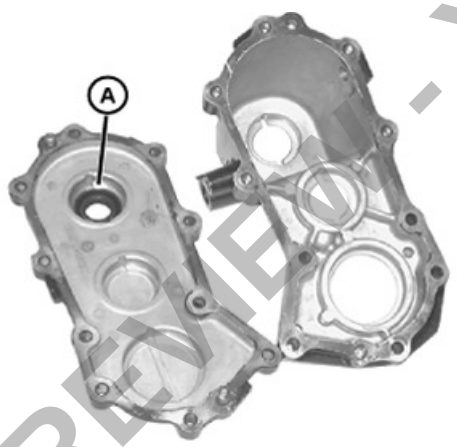
Steps for installing bearings on idler gear and drive gear are the same.



Install Bearings

[1] - Install bearings by pressing on inner race until tight against shoulder of gear.

[2] -



LEGEND:
A Oil Seal

Install Oil Seal

Install new oil seal (A) in cover. Be sure spring side of seal is toward inside of case. Push seal into bore is specified distance below top surface of bore.

Item	Measurement	Specification
4WD Gear Case Oil Seal	Installation Depth (Approximate)	3 mm (0.12 in.)

[3] -

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Removal, Disassembly, Inspection, and Assembly of Hydraulic Pump

Removal

IMPORTANT:

Absolute cleanliness is essential when working on hydraulic components. Contamination can result in serious damage or inadequate operation.

DO NOT use shop towels or rags to dry cleaned parts. Lint will clog passages in the hydraulic/hydrostatic system and cause damage.

→NOTE:

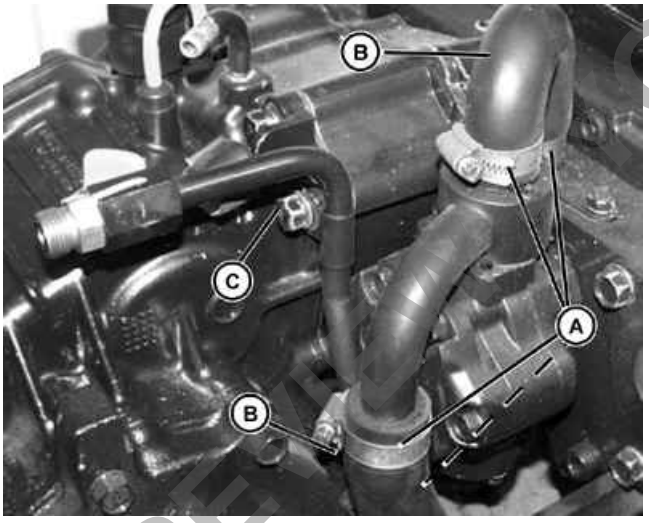
It is not necessary to remove transaxle to repair hydraulic pump only. Hydraulic pump can be removed without disassembly of transaxle.

Transaxle is shown removed for clarity.

Use shop cloths or paper towels to immediately catch and clean up any spilled oil. Close all ports and lines using caps or plugs.

[1] - If transaxle is in machine, drain transaxle. (See Changing the Transaxle Oil and Filter in the operator's manual.)

[2] -



LEGEND:

A	Hose Clamps (4 used)
B	Hoses
C	Bolt

Loosen the Hose Clamps and Remove the Hoses from the Intake Manifold

Loosen the four hose clamps (A) and remove the two hoses (B) from the intake manifold.

[3] - Remove bolt (C) holding the hydraulic line support bracket.

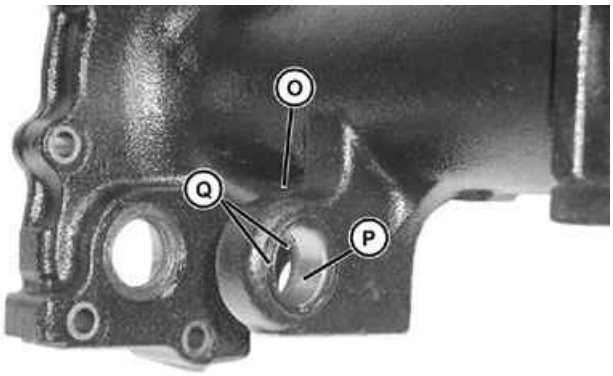
[4] -

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Turn axle shaft housing over and remove oil seal (N).

[13] -



LEGEND:

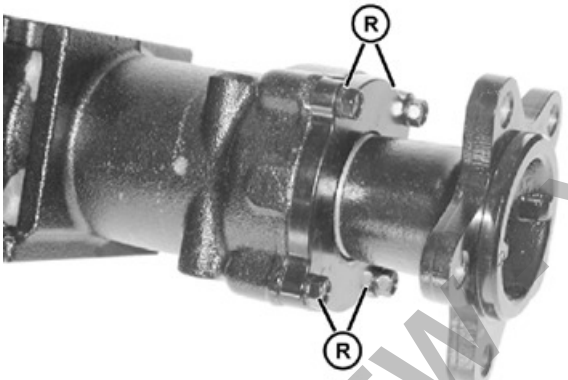
O	Support Hanger
P	Bushing
Q	Oil Seals

Bushing and Seals in Support Hanger for Camshaft Arm in Left Axle Housing Shown

The left axle housing has an extra support hanger (O) for the camshaft arm with a bushing (P) and seals (Q). If the bushing requires replacement, remove the seals to access the bushing.

[14] - Remove oil seals (Q) and bushing (P).

[15] -



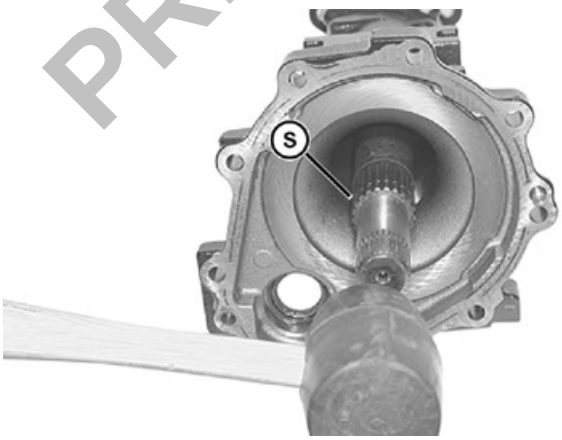
LEGEND:

R	Cap Screws (4 used)

Cap Screws

Remove four cap screws (R).

[16] -



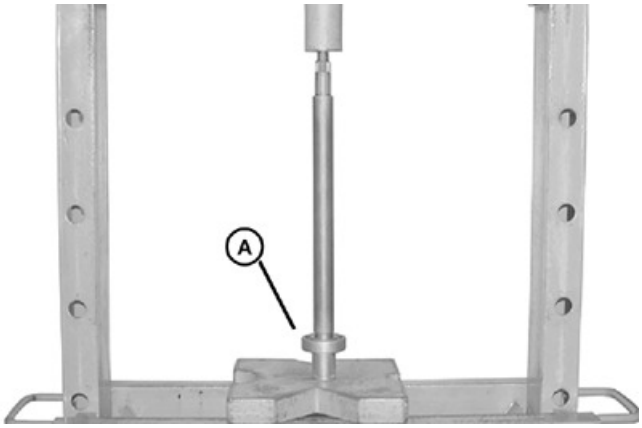
LEGEND:

S	Axle

Drive Axle Out of Housing

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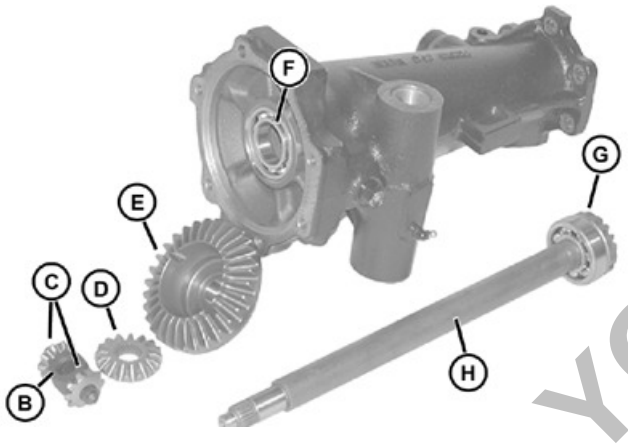


LEGEND:
A Outer Bearing

Outer Bearing being Installed on Left Axle Shaft

[1] - Install new outer bearing (A) on left axle, if removed. Support inner race of bearing and press axle into bearing until tight against axle shoulder.

[2] -



LEGEND:
B Pinion Shaft
C Pinion Gears
D Axle Inner Gear
E Ring Gear
F Bearing
G Axle Outer Gear
H Left Axle Assembly

Left Side Axle Housing Components Shown for Assembly

Install axle outer gear (G).

[3] - Install bearing (F) and ring gear (E) in axle housing.

[4] - Install left axle assembly (H) in housing.

[5] - Install axle inner gear (D), pinion gears (C) and pinion shaft (B).

Assembly Differential and 4WD Axle Housing

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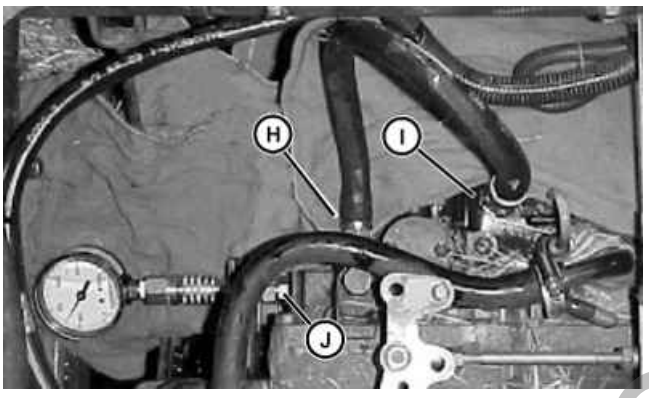


LEGEND:
G Steering Valve Hose

Steering Valve Hose Disconnected from Charge Pump Outlet and place in Oil Pan

Disconnect steering valve hose (G) from charge pump outlet and place in oil pan.

[6] -



LEGEND:
H Charge Pump Outlet
I Transaxle Vented Cap Port
J Charge Pump Test Port

Test Hose Connected to Charge Pump Outlet and Transaxle Vented Cap Port

Connect test hose to charge pump outlet (H) and transaxle vented cap port (I).

[7] - Connect test gage assembly to charge pump test port (J).

[8] - Tighten all fittings.

[9] - Start engine and run at fast idle.

[10] - Bring hydraulic oil to operating temperature.

[11] - Pull lift control lever back and hold.

[12] - Check gage reading and record results.

Item	Measurement	Specification
Implement Relief	Pressure at Fast Idle	6895 ± 500 kPa (1000 ± 73 psi)

[13] - Reduce engine to slow idle.

[14] - Check gage reading and record results.

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Group 15 - Theory of Operation

Brake System Operation

Function

To provide a means of stopping the machine and to prevent the machine from moving when not in use.

Theory of Operation

The brake system consists of plates and disks located inside the axle housing on each side of the transaxle assembly.

The brakes are activated by a common pedal hooked to linkage connected to the individual brake assemblies located in each of the axle shaft housings. The brakes may be activated individually by depressing either the left turn brake pedal or the right turn brake pedal.

Inside each axle shaft housing, the brake components consist of a brake actuator lever/cam, actuator plate, and pairs of alternating friction disks and separator plates.

The brake actuator plate is mounted on six steel balls, which ride inside pockets with ramps on the actuator plate.

The brake friction disks are splined to the axle shafts. The separator plates are keyed to the brake actuator lever/cam shaft and cannot move.

When the brake pedal is depressed, the brake actuator lever/cams rotate, forcing the brake actuator plate to rotate.

As the actuator plate rotates, the ramps on the plate will allow the plate to ride up, forcing the plate against the friction disks and separator plates, causing drag and slowing the machine.

When the pedal is released, the return springs return the brake actuator lever/cams to the rest position, allowing the actuator plates to release the pressure on the friction disks and separator plates.

The machine is equipped with a park brake lock. When the brake pedal is depressed and held, and the park brake lock lever is pulled up, a pawl engages with the teeth on the pivot shaft, locking the brake linkage.

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Rotate 72-Inch (Rear Discharge) Mower Deck S.N. (215001 -)

Rotate Mower Deck for Service

[1] - Raise the mower deck completely.

[2] - Park machine on a level surface.

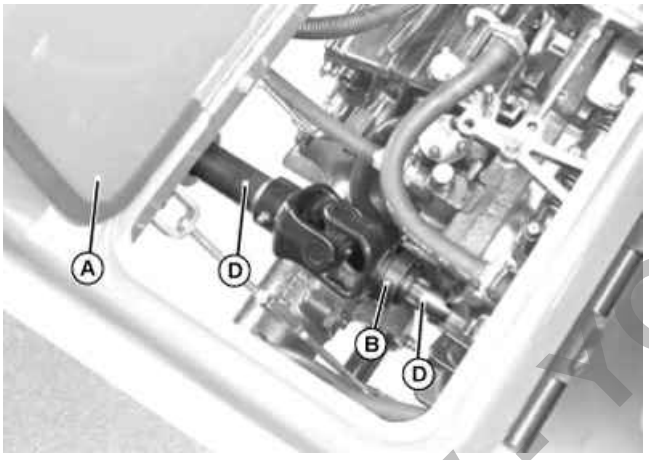
[3] - Lock the park brake.

[4] - Stop the engine and remove the key.

[5] - Wait for all moving parts to stop before you leave the operator's seat.

[6] - Engage the service latches.

[7] -



LEGEND:

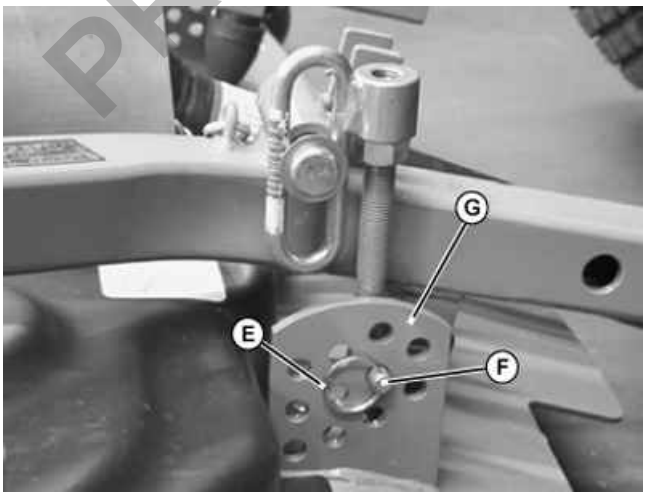
A	Service Hatch
B	Coupler Ring
C	PTO Driveshaft
D	PTO Output Shaft

PTO Shafts

Unlock and open service hatch (A) on machine.

[8] - Pull forward on the coupler ring (B) located on the mower deck PTO driveshaft (C). Pull the driveshaft off of machine PTO output shaft (D).

[9] -

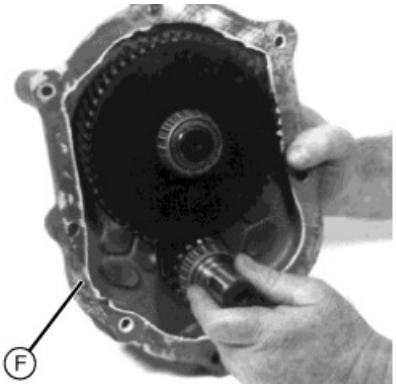


LEGEND:

E	Retaining Ring
F	Hanger Pin
G	Adjustment Plate

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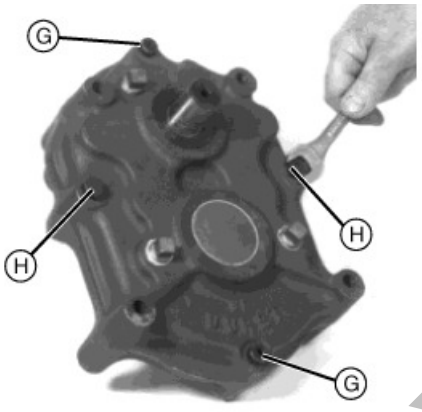
LEGEND:
F RTV Sealant

Apply RTV

Apply RTV sealant (F) evenly around sealing surface of each case half.

Number	Name	Use
• NA (us)	RTV Sealant	Used to seal snowblower main case.

[12] -



LEGEND:
G Socket Head Screws
H Cap Screws

Gear Case Halves

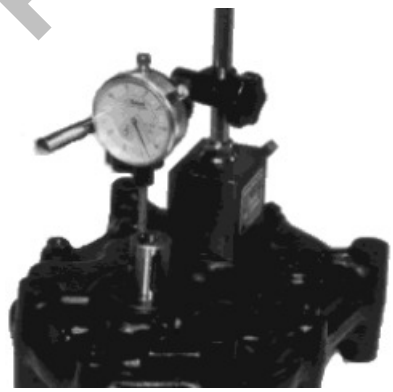
Put gear case halves together and install two socket head screws (G) and cap screws (H). Tighten socket head screws to specifications.

Item	Measurement	Specification
Snowblower Gear Case Socket Head Screw	Torque	26 N·m (228 lb-in.)

Tighten cap screws to specifications.

Item	Measurement	Specification
Snowblower Gear Case Cap Screw	Torque	41 N·m (34 lb-ft)

[13] -



Shaft End Play

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