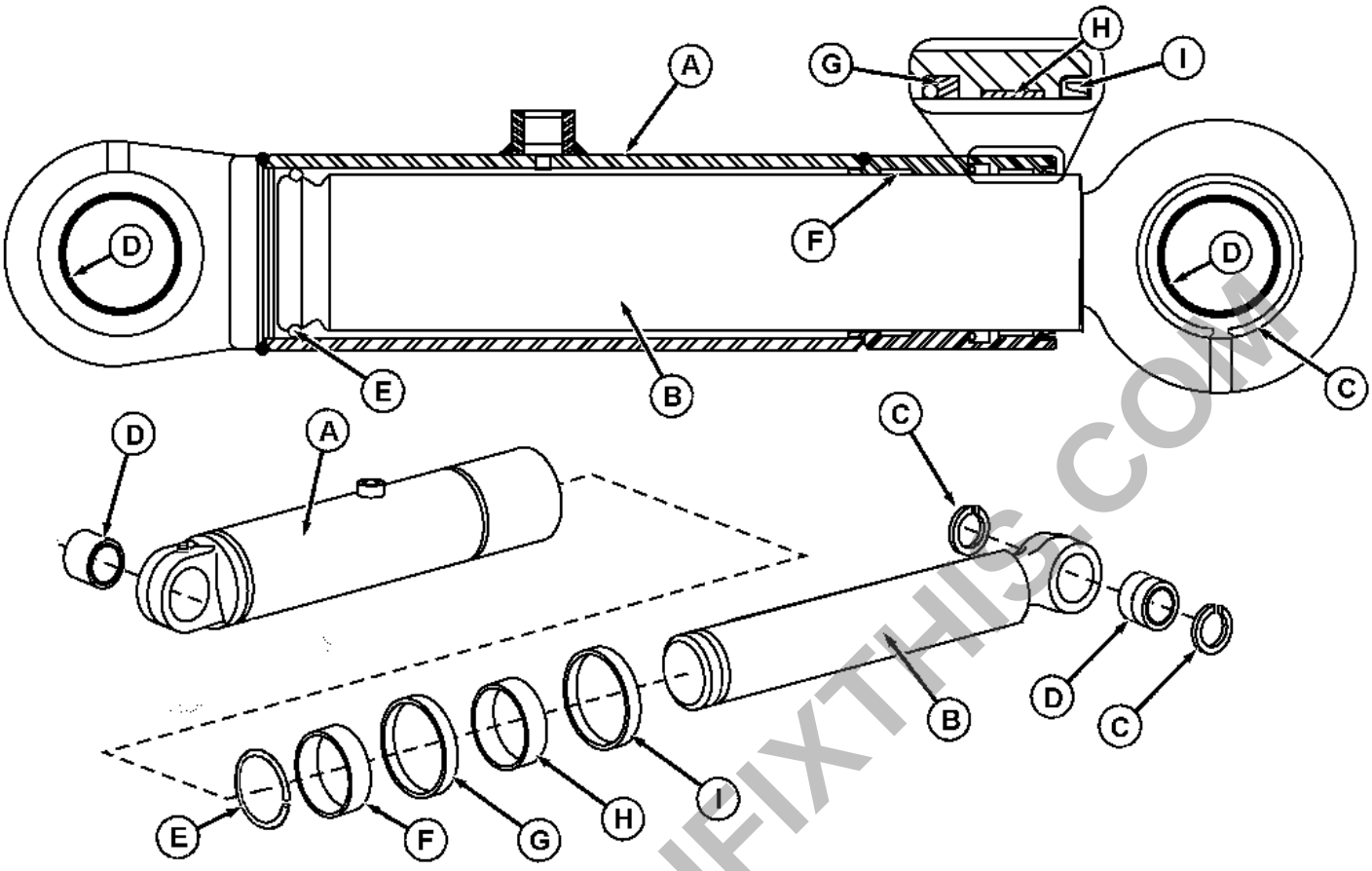
# Cross-Sectional and Exploded View—Track Tension Cylinder




*Track Tension Cylinder Exploded View*

**LEGEND:**

| | |
|---|---|
| A | Barrel |
| B | Rod |
| C | Snap Rings |
| D | Bearing |
| E | Snap Ring |
| F | Wear Ring |
| G | Seal |
| H | Wear Ring |
| I | Wiper Seal |

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***Lift Strap***

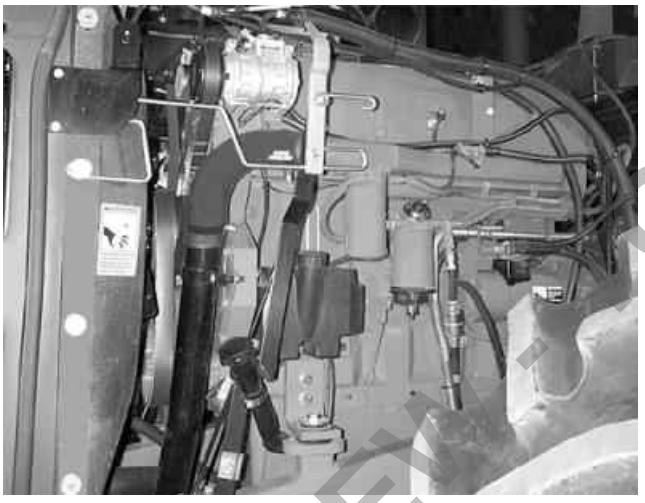
R128000

Remove and install 12.5L engine.

## Specifications

| Item | Measurement | Specification |
|---|---|---|
| Engine Lift Bracket Cap Screws (10.5 L and 12.5 L) | Torque | 90 N·m (66 lb-ft) |
| Engine Mounts-to-Engine Cap Screws | Torque | 300 N˙m (230 lb-ft) |
| Engine Mounts-to-Frame Cap Screws | Torque | 325 N˙m (240 lb-ft) |
| Transmission Drive Shaft-to-Engine Coupler Cap Screws | Torque | 210 N˙m (155 lb-ft) |
| Fan Drive Hub-to-Viscous Drive Cap Screws | Torque | 70 N˙m (52 lb-ft) |
| Fan-to-Viscous Drive Nuts | Torque | 35 N˙m (26 lb-ft) |

## Engine Identification



***Dual-Rail Engine***



***Single-Rail Engine***

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# Group 10 - General Information

## General Specifications

### General Specifications

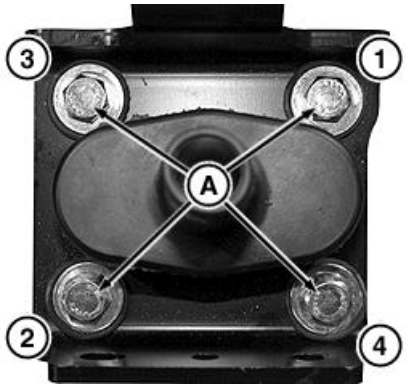
| 9300T, 9400T, 9320T, 9420T, 9520T and 9620T |
|---|
| **Power:** |
| |
| Engine (Factory Observed) |
| —9300T ..... 268 kW (360 hp) |
| —9320T ..... 280 kW (375 hp) |
| —9400T, 9420T ..... 316 kW (425 hp) |
| —9520T ..... 336 kW (450 hp) |
| —9620T ..... 373 kW (500 hp) |
| PTO (Power limited to 9320T levels for stationary operation) ..... 225 kW (302 hp) |
| Rated Speed ..... 2100 rpm |
| Governed Speed ..... 900±10–2200±25 rpm |
| Operating Speed ..... 1600–2100 rpm |
| |
| **Engine:** |
| |
| Type ..... In-line 6-Cylinder, Wet Sleeve, Valve-in-Head, Turbocharged, and Air-to-Air Aftercooled Diesel |
| Displacement ..... 12.5 L (766 $in.^3$ ) |
| Bore ..... 127 mm (5.00 in.) |
| Stroke ..... 165 mm (6.50 in.) |
| Compression Ratio ..... 9300, 9400, 9320, 9420, and 9520—17.0:1 |
| 9620—14.8:1 |
| Lubrication ..... Combination Bypass Full Flow Filtration |
| |
| **Fuel System:** |
| |
| Injection Pump Type ..... Unit Electronic Injectors–Electronically Governed |
| Air Cleaner ..... Dry-Type with Safety Element |
| |
| **Cooling System:** |
| |
| Type ..... Liquid with Gear-driven Centrifugal Pump and Enclosed Recovery Tank |
| |
| **Electrical System:** |
| |
| Type ..... 12 volt |
| Alternator ..... 140 amp |
| Batteries ..... 3 |
| Cold Cranking Amps ..... 2775 |

### Capacities

| 9300T, 9400T, 9320T, 9420T, 9520T and 9620T |
|---|
| **Capacities:** |
| |
| Fuel Tank ..... 1211 L (320 gal) |
| Cooling System ..... 60 L (16 gal) |
| Crankcase ..... 42 L (11 gal) |
| Rear Axle (S.N. -902087) ..... 178 L (47 gal) |
| MST Transmission (S.N. -902087): |
| —Without PTO ..... 64 L (17 gal) |

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**LEGEND:**

| | |
|---|---|
| A | Cap Screws |

***Top of Valve***

Tighten cap screws (A) to specification, in order shown.

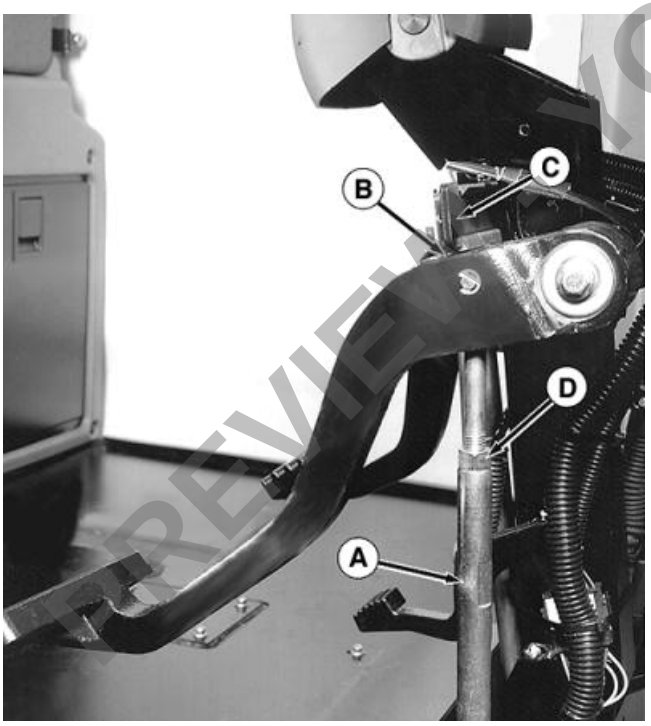
| Item | Measurement | Specification |
|---|---|---|
| Brake Valve Mounting Bracket-to-Valve Cap Screws | Torque | 25 N·m (18 lb-ft) |

***IMPORTANT:***

***Cap screws must be tightened a second time to ensure uniform torque is obtained.***

Repeat tightening procedure, in order shown.

## Adjust Brake Pedal




**LEGEND:**

| | |
|---|---|
| A | Actuator Rod |
| B | Pedal Arm |
| C | Stop |
| D | Nut |

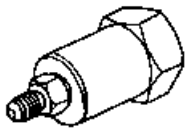
***Actuator Rod, Pedal Arm, Stop, and Nut***

Check and adjust brake rod actuators (A) until a 0.025—1.3 mm (0.001—0.05 in.) gap exists between pedals (B) and upper stop (C).

Tighten lock nut (D).

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***JDG789***

Test hitch surge relief valve

Operate hand pump and record pressure when oil starts to come out the test adapter drain port (C).

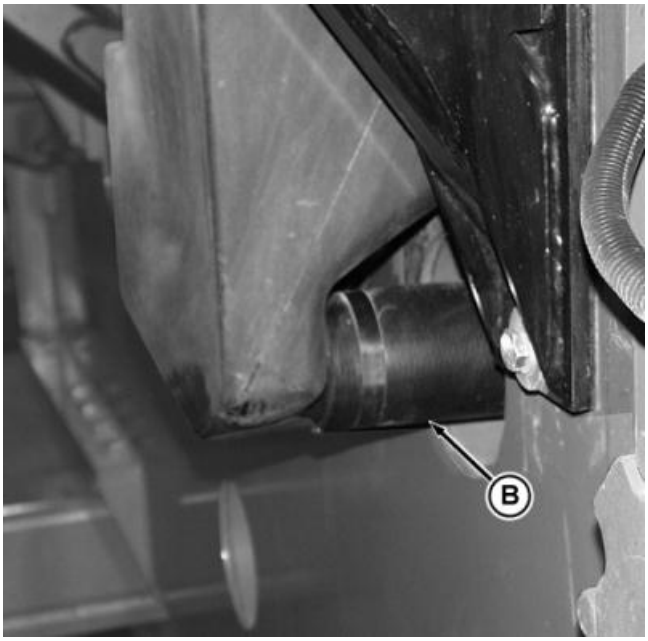
| Item | Measurement | Specification |
|---|---|---|
| **Surge Relief Valve** | | |
| | Pressure | 24 000—26 000 kPa (240—260 bar) (3500—3750 psi) |

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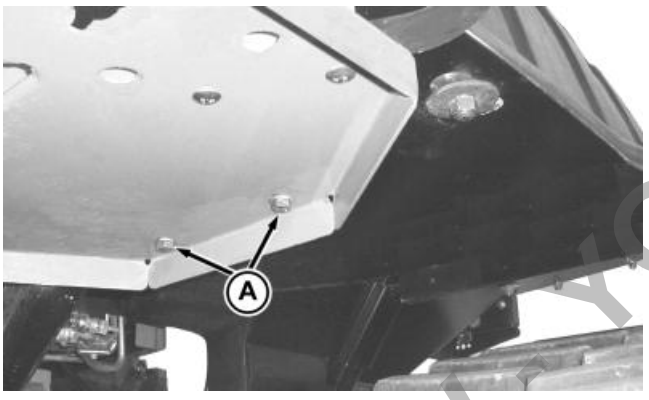
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***LH Lower Fuel Hose***

Remove fuel tank support (A), and lower fuel hose (B).



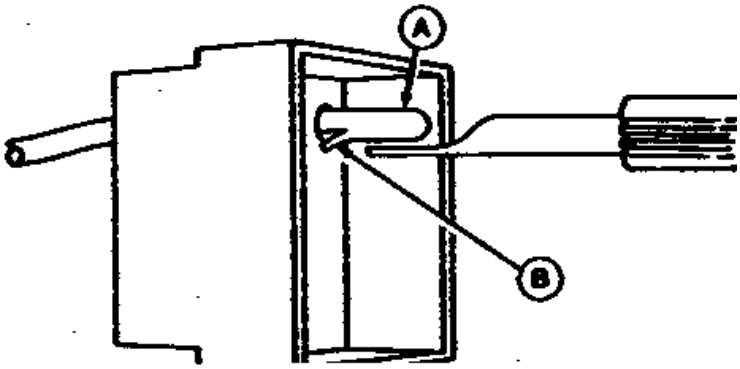

**LEGEND:**

| | |
|---|---|
| A | Cap Screws |
| B | Cap Screws |

***Front Platform Arm***

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**LEGEND:**

| | |
|---|---|
| A | Contact Pin |
| B | Locking Lance |

Push contact pin (A) from wire side into connector as far as possible.

***IMPORTANT:***

***DO NOT pry on extraction tool.***

Put tip of JDG142 Extraction Tool

[ Included in JDG155 Electrical Repair Tool Kit ]
against locking lance (B) and depress lance.

Pull wire to remove contact from connector body.

Remove old contact and strip 6 mm (1/4 in.) of insulation from wire using JDG145 Universal Electrical Pliers

[ Included in JDG155 Electrical Repair Tool Kit ]
.

Crimp new contact on wire using JDG144 Crimping Pliers

[ Included in JDG155 Electrical Repair Tool Kit ]
.

Spread contact pin locking lance and insert wire in correct terminal of new connector.

Remove remaining wires and install in correct terminal of new connector.

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F29 Front Grille Floods and Beacon Light
F30 Roof Floods (Option)
F31 7-Way Accessory Outlet (Floods)
F32 Warning Lights and Switch, Turn Signal Lights
F33 Not Used
F34 Powershift Control Unit (PCU)
F35 Left Tail Light (North American)
F36 Right Tail Light (North American)
F37 Brake Lights (European)
F38 Operator Presence Switch, Ride Zone Protector
F39 7-Way Accessory Outlet
F40 Powershift Control Unit (PCU)
F41 Convenience Outlets and Junction Blocks, Field Office, Auxiliary Power Strip, and Lighter
F42 High/Low Beam Lights
F43 Engine Control Unit (ECU)
F44 Rear Fender Flood Lights
F45 Seat Control Power, Radio Clock (North American), Clock (European)
F46 Not Used
F47 Convenience Outlets and Junction Blocks (Left Side), Business Band Prewire, Field Office
F48 Convenience Outlets and Junction Blocks (Right Side), Auxiliary Power Strip

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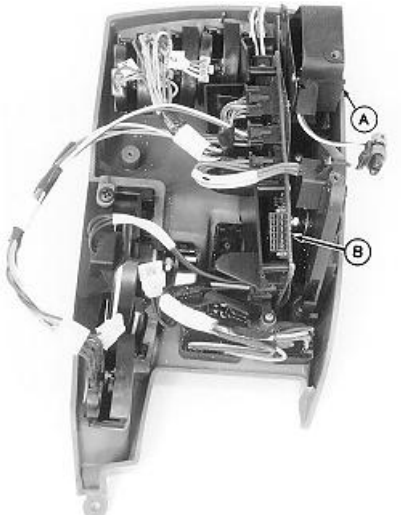

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Remove three screws (A) and screw (B).

Disconnect three connectors (C) and remove top cover to access the armrest controls.

Install in reverse order.

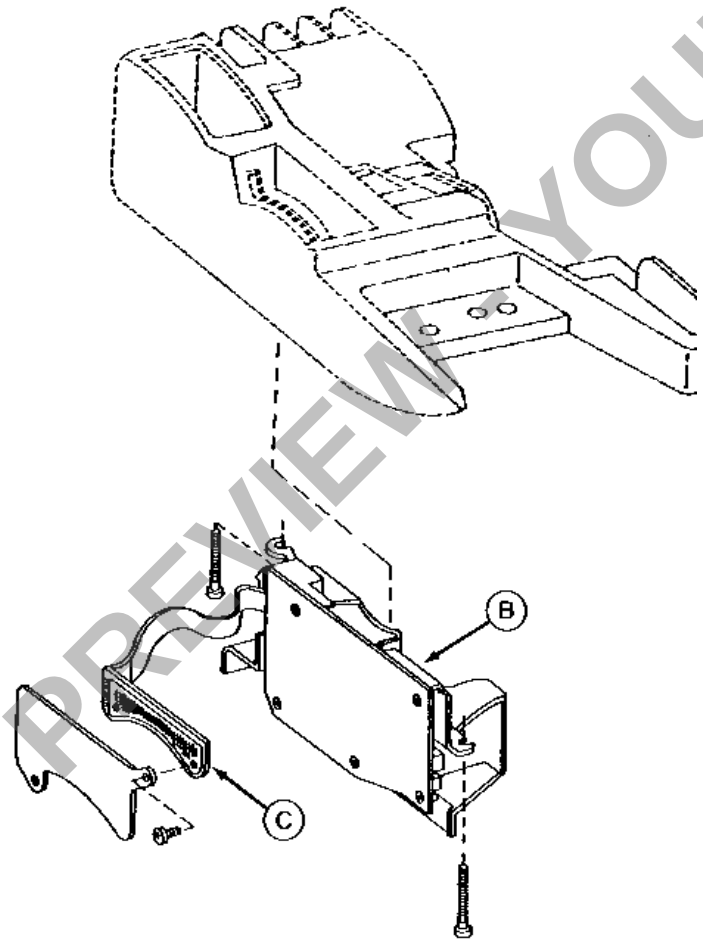
## Replace Armrest Control Unit (ACU)




**LEGEND:**

| | |
|---|---|
| A | Shifter Control Assembly |
| B | ACU |
| C | Circuit Board |

***Armrest Control Unit***




***Armrest Control Unit—Exploded View***

Remove armrest control assembly from the seat. (See REPLACE ARMREST CONTROL ASSEMBLY in this group.)

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***CAUTION:***

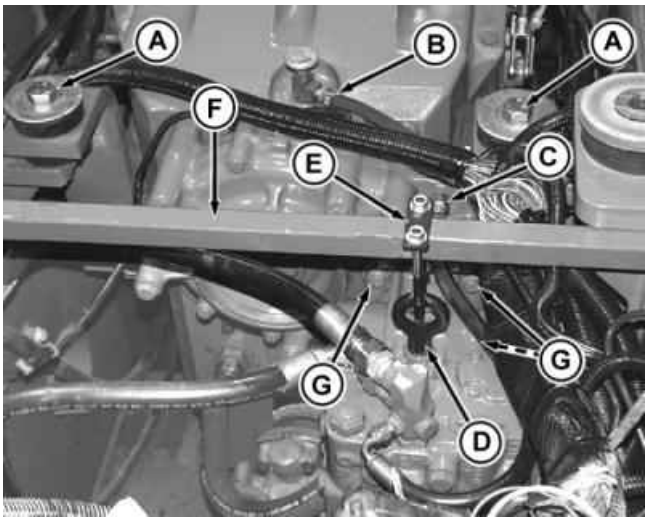
***Shift bell crank can come loose from plate and fall.***

Remove plate (B) with shift bell crank.

Move steering and washer harnesses (C) to the side frame.

Disconnect and plug brake hose (D).

Disconnect input shaft (E) from transmission and slide toward engine.




**LEGEND:**

| | |
|---|---|
| A | Transmission Mounts |
| B | Vent Hose |
| C | Return Hose |
| D | JDG1401 Lift Bracket |
| E | JDG1245 Lift Hook Adaptor |
| F | JDG1079 Lifting Bar |

***Remove Steering Pump***

Remove upper transmission mount cap screws (A).

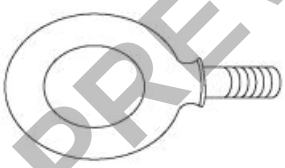
Disconnect and plug vent hose (B) and return hose (C).

Remove plug from top of pump and install JDG1401 Lift Bracket (D) into hole and hand tighten.

Lift Bracket

JDG1401

[ Recommended Tool ]



***JDG1401***

Remove and install Steering Pump

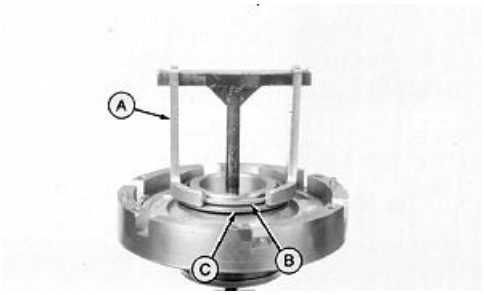
Remove plates from JDG1245 Lift Hook Adaptor (E) and install through lift bracket (D) and over JDG1079 Lifting Bar (F). Tighten nuts of JDG1245 Lift Hook Adaptor to support steering pump.

Lifting Bar Adaptor

JDG1245

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**LEGEND:**

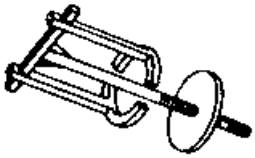
| | |
|---|---|
| A | JDT24A Spring Washer Compressor |
| B | Retaining Ring |
| C | Springs |

***Clutch Drum Piston Return Springs***

Compress clutch drum piston return springs (C) using a JDT24A Spring Washer Compressor (A). Push retaining ring (B) down enough to remove snap ring. Carefully release tension to remove spring washers and clutch piston.

Spring Washer Compressor

JDT24A



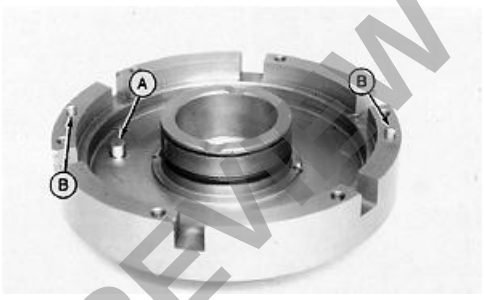
***JDT24A***

Remove and install clutch spring washers.

Inspect piston for unusual or excessive wear or damage.

Replace clutch piston packing. Coat with clean hydraulic oil after installation.

**→NOTE:**




***Clutch Drum***

**LEGEND:**

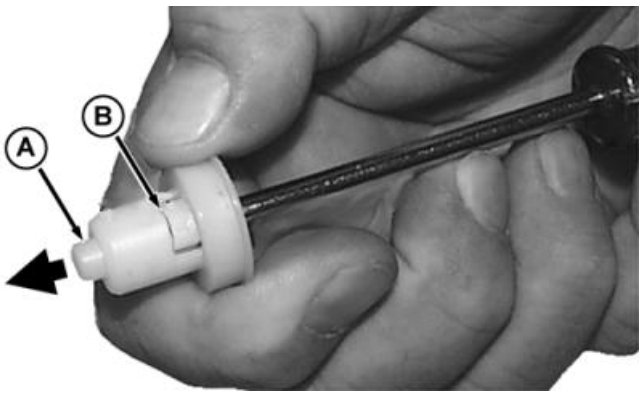
| | |
|---|---|
| A | Anti-Rotation Pin |
| B | Dowel Pins |

**Anti-rotation pin (A) and dowel pins (B) are serviced as part of the clutch drum.**

Inspect clutch drum for wear or damage and replace as necessary.

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**LEGEND:**

| | |
|---|---|
| A | Adjusting Gauge Inner Pin |
| B | Pin Indicator |

***Adjusting Gauge***

Use RE37996

Neutral Start Switch Gauge

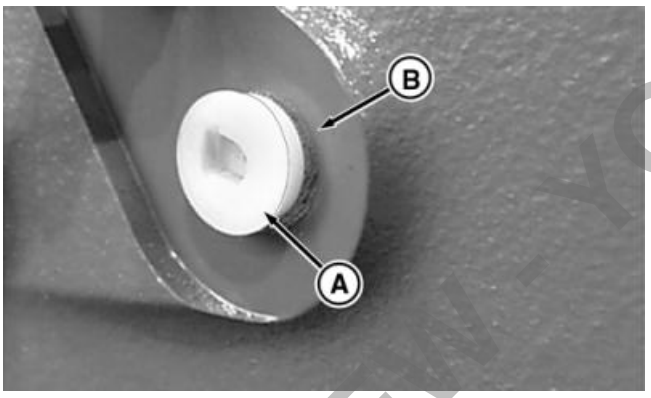
RE37996

Adjust neutral start switch

Neutral Start Switch Adjusting Gauge.

**[5] -** Press inner pin (A) until no gap exists at pin indicator (B).

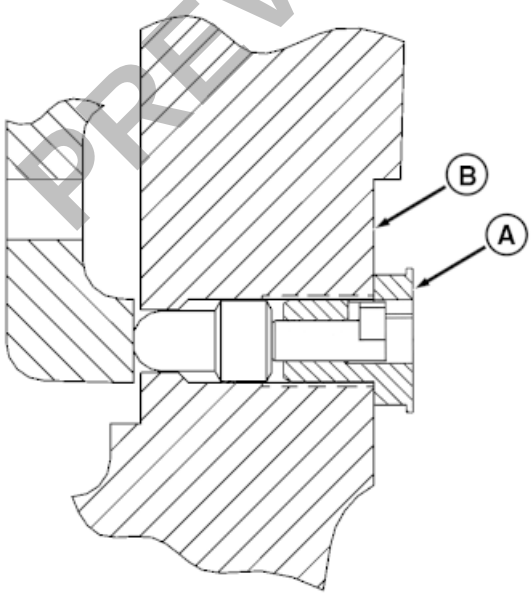
**[6] -**




**LEGEND:**

| | |
|---|---|
| A | Neutral Start Switch Adjusting Gauge |
| B | Transmission Case Spotface |

***Install Adjusting Gauge***



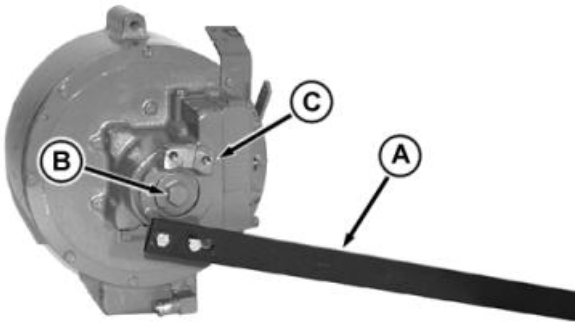

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# Disassemble, Inspect, and Assemble PTO Clutch

**LEGEND:**

| | |
|---|---|
| A | Yoke Holding Tool |
| B | Yoke Retaining Cap Screw |
| C | Output Yoke |




***PTO Clutch Yoke Holding Tool***

Remove PTO clutch assembly from tractor. (See Remove and Install PTO Clutch in Group 00.)

Install JDG924

Yoke Holding Tool

JDG924

[ RECOMMENDED TOOL—May be fabricated—See Section 99, DFRW103 ]



***JDG924***

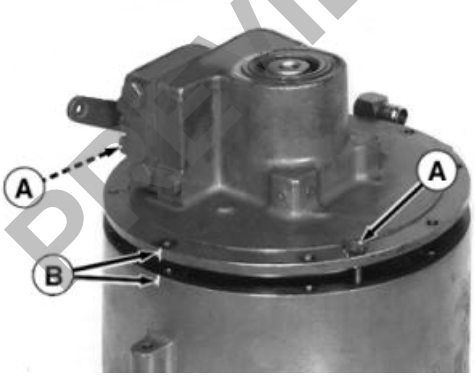
Remove and install yoke retaining nut or cap screw

(DFRW103) Yoke Holding Tool (A) and remove cap screw (B) and washer and O-ring.

Remove output yoke (C).

**LEGEND:**

| | |
|---|---|
| A | Jack Screw Holes |
| B | Marks |




***PTO Clutch Housing Rear Cover***

Remove cap screws from rear cover. Use two of the cap screws in jack screw holes (A) to aid removal of rear cover.

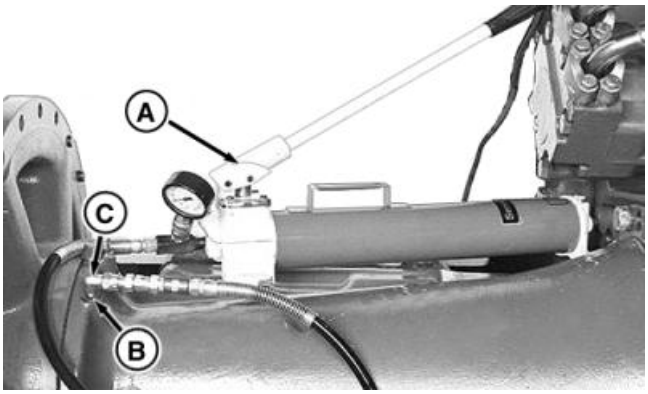
**→NOTE:**

**Avoid rotating rear cover 180° during reassembly by placing marks on cover and housing.**

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# Remove and Install Sun Gear/Axle Shaft




**LEGEND:**

| | |
|---|---|
| A | Hydraulic Hand-Operated Pump |
| B | Service Brake Pressure Port |
| C | DR |

***Apply Pressure to Brake Pack***

**→NOTE:**

**On tractors with MST, it is NOT necessary to remove ring gear or brake components for sun gear/brake hub/axle shaft removal and installation, if pressure is applied to the brake pack to keep brake disks in position.**

**Applying pressure to the brake pack will allow the brake disks to stay in position while the sun gear and brake hub are removed and installed.**

Connect D01019AA Hydraulic Hand Pump

Hydraulic Hand-Operated Pump

D01019AA

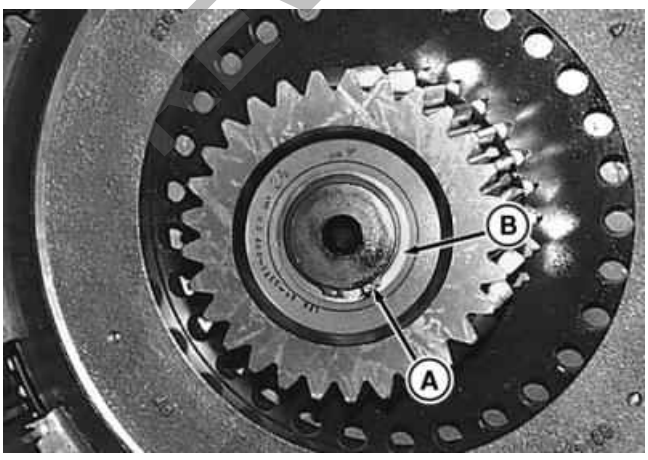
[ Recommended Tool ]

Apply pressure to brake pack to remove sun gear

(A) equipped with a 7000 kPa (70 bar) (1000 psi) gauge and a shut-off valve to axle housing service brake pressure port (B) using a DR (C) installed in pressure port.

Operate hand pump to apply 3500-4000 kPa (35-40 bar) (500-600 psi).

Close the shut-off valve.




**LEGEND:**

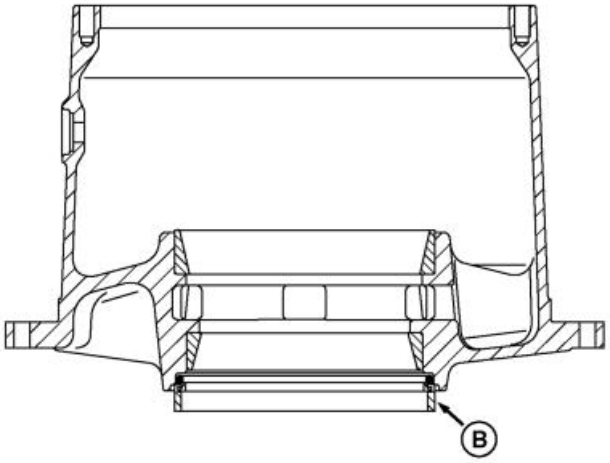
| | |
|---|---|
| A | Sun Gear-to-Axle Shaft Retaining Snap Ring |
| B | Washer |

***Remove Sun Gear Retaining Snap Ring***

Remove sun pinion-to-axle shaft retaining snap ring (A) and washer (B).

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***Wheel Hub Face Seal Installation***

***IMPORTANT:***

***Install NEW face seals.***

***Face seal contacting surfaces must be free of grease, oil, dirt, and scale. No contamination is permitted.***

Clean seal and contacting surfaces with a 50-50 alcohol and water solution.

**[28] -** Wet the seal and seal seat with alcohol cleaning solution for ease of installation.

**[29] -** Avoid touching face seal metal sealing surfaces with bare hands.

**[30] -** Install face seal (A) into housing using JDG1414

Face Seal Installer

JDG1414

Install face seals to wheel hub and axle housing

Face Seal Installer (B), making sure that housing surface is parallel with seal face.

**[31] -** Check that face seal O-ring is not rolled and is seated evenly to the bottom of the housing.

**[32] -** Wipe metal seal face with a lint-free cloth and apply a thin film of oil.

**[33] -**

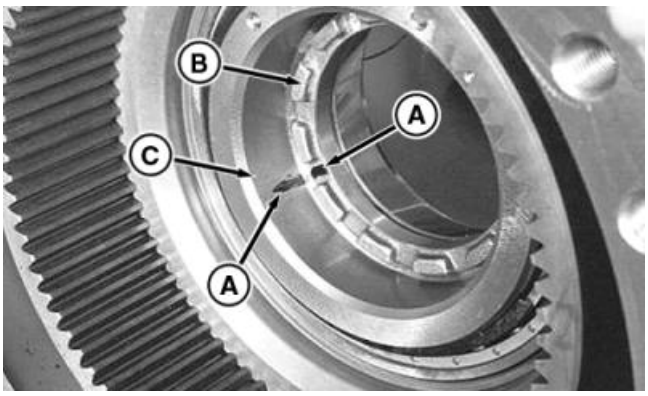



**LEGEND:**

| | |
|---|---|
| A | Inner Backup Ring |
| B | Inner O-Ring Packing |
| C | Outer O-Ring Packing |
| D | Outer Backup Ring |

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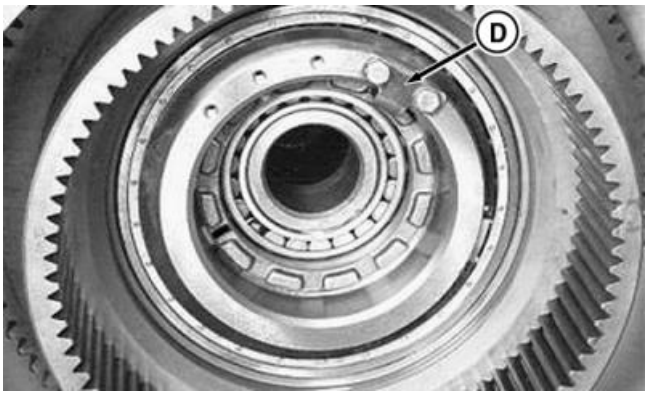

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**LEGEND:**

| | |
|---|---|
| A | Reference Mark |
| B | Adjusting Ring |
| C | Differential Case |
| D | Adjusting Ring Lock Plate |

***Right Adjusting Ring***




***Adjusting Ring Lock Plate***

Place a reference mark (A) on right adjusting ring (B) and differential case (C).

Remove adjusting ring lock plate (D).




**LEGEND:**

| | |
|---|---|
| A | Spanner Wrench |

***Remove Right Adjusting Ring***

Remove adjusting ring, counting the number of turns required, using JDG1403

Spanner Wrench

JDG1403

Remove and install spool/ring gear bearing adjusting rings

Spanner Wrench (A).

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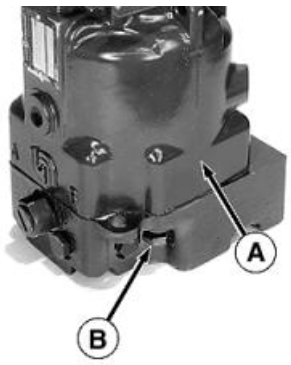

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# Specifications

| Item | Measurement | Specification |
|---|---|---|
| Steering Pump Mounting Cap Screws | Torque | 125 N˙m |
| | | (94 lb-ft) |
| **Steering Pump Control and Charge Pump:** | | |
| Displacement Control Valve-to-Steering Pump Cap Screws | Torque | 16 N˙m |
| | | (144 lb-in.) |
| Electronic Displacement Control-to-Control Valve Cap Screws | Torque | 5.4 N˙m |
| | | (48 lb-in.) |
| Charge Pump Retaining Plate Cap Screws | Torque | 14 N˙m |
| | | (120 lb-in.) |
| **Steering Pump:** | | |
| Multifunction Valves | Torque | 90 N˙m |
| | | (66 lb-ft) |
| End Cap Rotation Plugs | Torque | 5.4 N˙m |
| | | (48 lb-in.) |
| End Cap Servo Relief Valve Passage Plugs | Torque | 12 N˙m |
| | | (108 lb-in.) |
| End Cap-to-Steering Pump Large Cap Screws | Torque | 256 N˙M |
| | | (189 lb-ft) |
| End Cap-to-Steering Pump Small Cap Screws | Torque | 38 N˙m |
| | | (28 lb-ft) |
| Side Cover-to-Pump Housing Cap Screws (Blind Holes) (4 used) | Torque | 32 N˙m |
| | | (24 lb-ft) |
| Side Cover-to-Pump Housing Cap Screws (Through Holes) (2 used) | Torque | 25 N˙m |
| | | (228 lb-in.) |
| Leveler-to-Side Cover Locking Nuts | Torque | 23 N˙m |
| | | (204 lb-in.) |
| Yoke Bearing Hold-Down Screws | Torque | 14 N˙m |
| | | (120 lb-in.) |
| Shaft Seal Carrier Retaining Screws | Torque | 16 N˙m |
| | | (144 lb-in.) |
| Charge Relief Valve Spring | Free Length | 51 mm |
| | | (2.0 in.) |
| | Test Length | 41 mm at 103—125 N |
| | | (1.61 in. at 23—28 lb force) |
| Yoke Leveling Outer Springs | Free Length | 88 mm |
| | | (3.5 in.) |
| | Test Length | 83.3 mm at 144—176 N |
| | | (3.27 in. at 32.4—39.6 lb force) |
| Yoke Leveling Inner Springs | Free Length | 81 mm |
| | | (3.2 in.) |
| | Test Length | 76.2 mm at 71—85 N |
| | | (2.99 in. at 15.75—19.25 lb force) |
| Yoke Hold-Down Spring | Free Length | 24 mm |
| | | (0.94 in.) |
| | Test Length | 24.7 mm at 689—841 N |
| | | (0.97 in. at 155—189 lb force) |

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**LEGEND:**

| | |
|---|---|
| A | Housing |
| B | Short End-Cap Screws |

***Housing and Cap Screws***



***Using a Wrench to Tighten Cap Screws***

Install the housing (A) over the assembled internal parts correctly positioning the housing to the alignment pins in the end cap.

**[46] -** Install and hand tighten the two short end-cap screws (B).

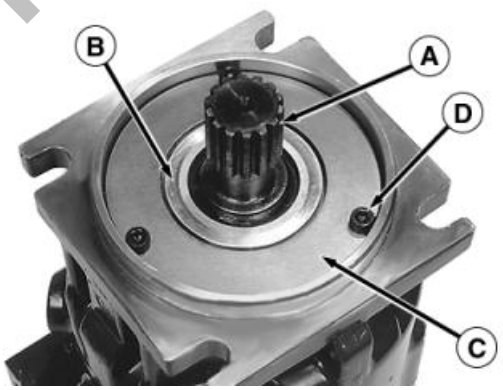
**[47] -** Turn the motor with the end cap up.

**[48] -** Install the four long 19 mm cap screws and the one 17 mm cap screw.

**[49] -** Tighten the cap screws evenly to the correct specification.

| Item | Measurement | Specification |
|---|---|---|
| Short End Cap-to-Motor Housing Cap Screw | Torque | 52 N·m (38 lb-ft) |
| Long End Cap-to-Motor Housing Cap Screws | Torque | 95 N·m (70 lb-ft) |

**[50] -**

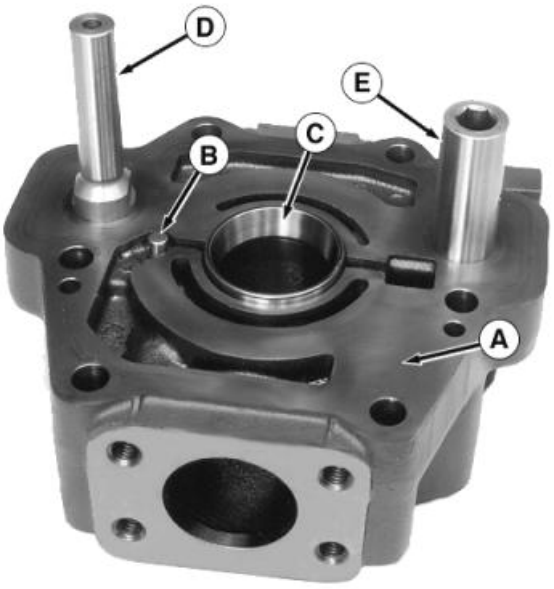



**LEGEND:**

| | |
|---|---|
| A | Shaft Assembly |
| B | Seal Carrier |
| C | Retaining Plate |
| D | 5 mm Hex Screws |

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**LEGEND:**

| | |
|---|---|
| A | Machined Surface |
| B | Pin |
| C | Bearing Cup |
| D | Bias Rod |
| E | Control Rod |

***Pump Valve Block***

Inspect valve block machined surface (A).

***IMPORTANT:***

***Bearing cup (C) must be replaced if the bearing cone is replaced. Be extremely careful that surface of the valve block is not damaged during bearing cup removal or installation.***

Press the new bearing cup until it bottoms in the valve block.

**→NOTE:**

**Bias and control rods are secured with PM38654 Thread Lock and Sealer (High Strength).**

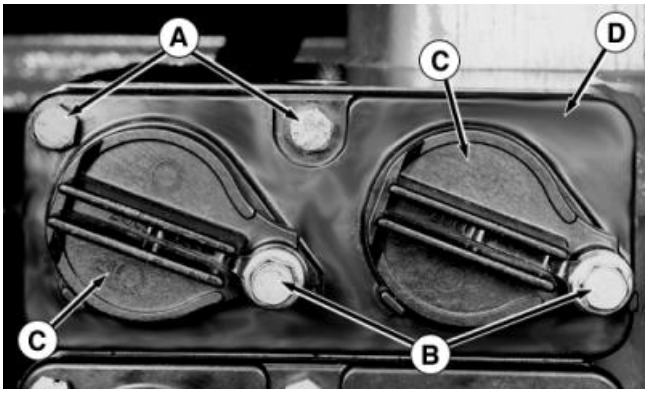
| Number | Name | Use |
|---|---|---|
| • PM38654 (us)<br>• PM38623 (canadian)<br>• 271 LOCTITE ™ (loctite) | Thread Lock and Sealer (High Strength) | Retain Bias and control rods. |

Remove bias rod (D) and control rod (E) only if damaged.

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# Repair SCV Couplers




**LEGEND:**

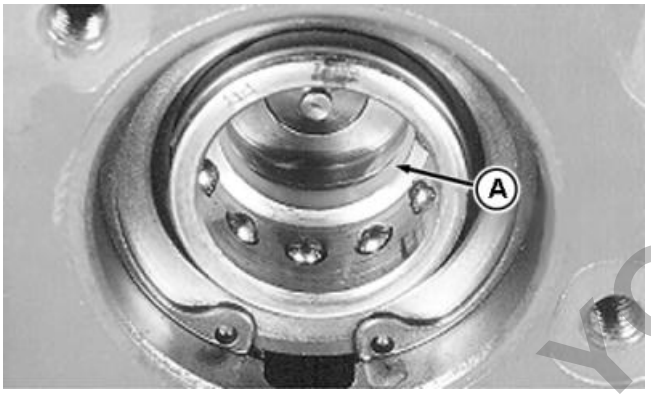
| | |
|---|---|
| A | Cap Screw |
| B | Special Screws with Spring Clips |
| C | Dust Covers |
| D | Coupler Cover |

***Cap Screws and Covers***

Remove 10 mm cap screws (A).

Remove special screws (B) with spring clips and washers.

Remove dust covers (C) and coupler cover (D).




**LEGEND:**

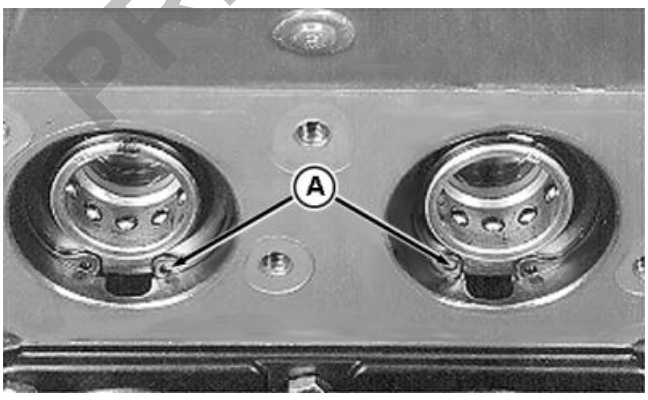
| | |
|---|---|
| A | Seal |

***Seal***

**→NOTE:**

**Coupler does not have to be removed to replace seal.**

Install new seal (A) in couplers.




**LEGEND:**

| | |
|---|---|
| A | Retaining Ring |

***Retaining Snap Rings***

Remove retaining snap rings (A).

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# Group 05 - Hood and Side Panels

## Essential Tools

**→NOTE:**

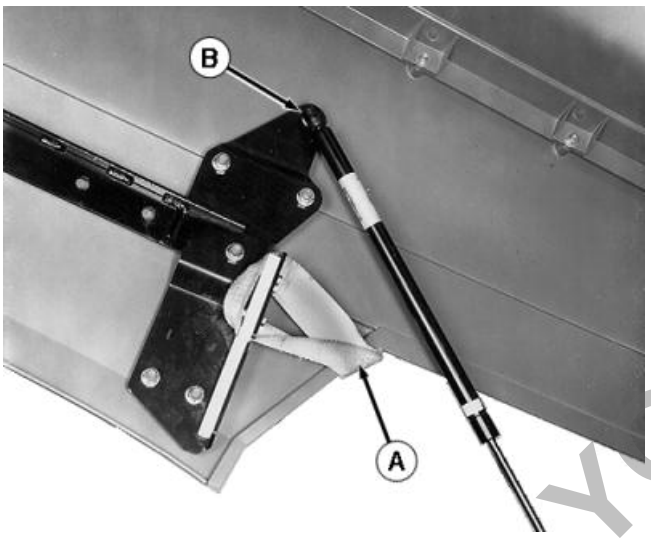
**Order tools according to information given in the U.S. SERVICEGARD ™ Catalog or from the European Microfiche Tool Catalog (MTC).**

Hood Release Tool

JDG1004A

Used to release broken hood latch.

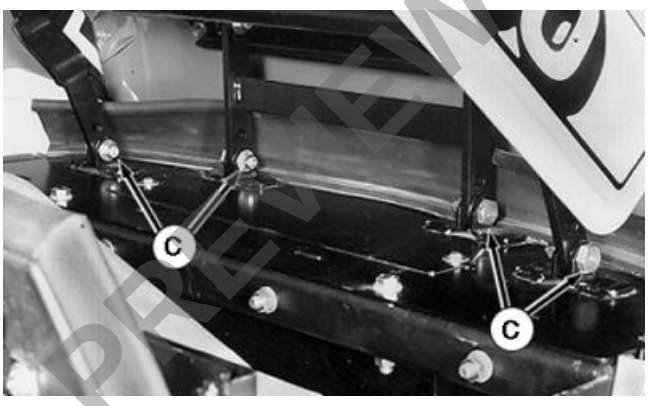
## Remove and Install Hood




**LEGEND:**

| | |
|---|---|
| A | Strap |
| B | Cylinder |
| C | Hinge Cap Screws |

***Hood Cylinders***




***Hood Attaching Screws***

Attach straps (A) to hood and hoist.

Support hood and disconnect cylinders (B).

Remove screws (C).

Carefully remove hood.

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**LEGEND:**

| | |
|---|---|
| A | Inlet Hose Clamp |
| B | Outlet Hose Clamp |
| C | Tabs |
| D | Valve Position Indicator |
| E | Connector With Safety Tab |
| F | Screws |
| G | Closed Valve Indicator Line |
| H | Open Valve Indicator Line |
| I | Screw |
| J | Driver |

Remove rear cab panel with SMV.

Remove small heater valve access panel.

***IMPORTANT:***

***There are three position marks on the housing of the actuator that correspond with the timing notches on the valve shaft (D).***

***DO NOT use the notches to turn the valve; doing so would damage the actuator.***

**→NOTE:**

**The ignition key may have to be left on for a minimum of 30 seconds to allow for the time delay feature built into the ClimaTrak system.**

With ignition key in the ON position, turn the temperature control knob to full HOT (clockwise).

Look through the access hole to verify that the valve position indicator (D) is aligned with the OPEN mark (H).

Drain cooling system at engine block.

Disconnect heater pressure hose at engine and blow air through hose to force remaining coolant out of heater core.

Remove outlet hose clamp (B) and hose.

## Leak Test Valve:

With ignition key in the ON position, turn the temperature control knob to full COLD (counterclockwise).

Look through the access hole to verify that the valve position indicator (D) is aligned with the CLOSED mark (G).

Attach a water hose to pressure hose at rear of engine and apply water pressure to hose.

Check outlet of valve for leakage and replace as necessary.

## To replace valve only, do the following:

Remove inlet clamp (A) and outlet clamp (B).

Remove screws (F) and pull valve from actuator bracket being careful to not break tabs (C).

Pull valve from hoses and replace as necessary.

## To replace actuator only, do the following steps:

Pull off connector safety lock and remove connector (E).

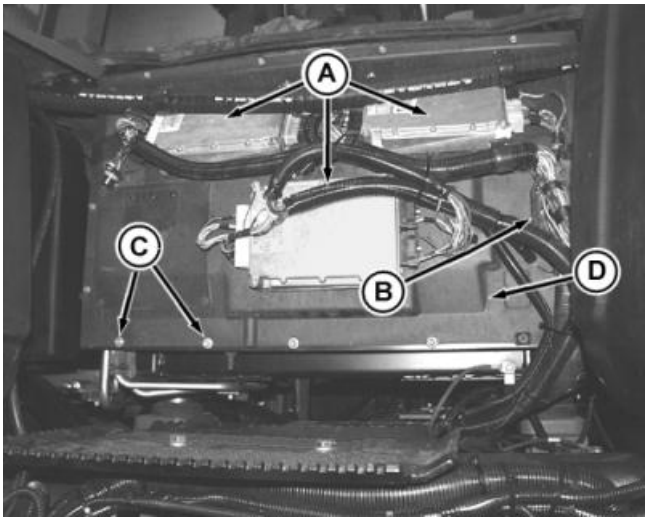
Remove screws (F) and remove actuator from valve, being careful not to break tabs (C).

Inspect and align driver (J) to new motor and install actuator and screws.

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# Remove and Install Expansion Valve




**LEGEND:**

| | |
|---|---|
| A | Tractor Control Units |
| B | Cab Harness Connector |
| C | Machine Screws |
| D | Inner Cab Panel |

***Rear Cab Wall***

Loosen four screws from between cab and fuel tanks and remove rear cab panel with SMV sign.

***IMPORTANT:***

***Do Not disconnect wire harnesses from control units to remove.***

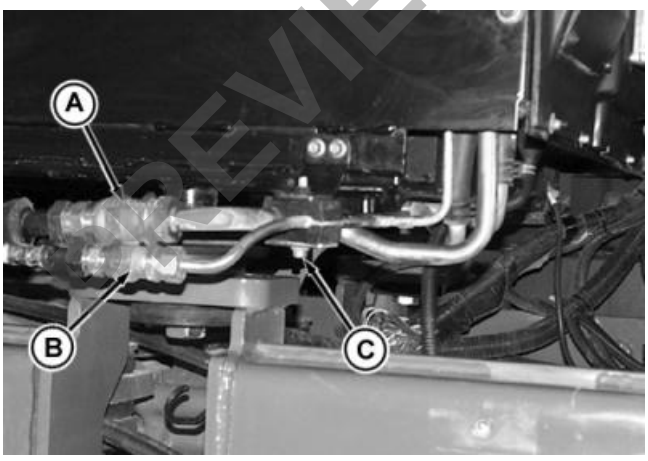
Remove control units (A) from inner cab panel.

Disconnect cab harness connector (B).

***IMPORTANT:***

***The foam seal on the rear panel should be replaced each time the panel is removed.***

Remove machine screws (C) form cab inner panel (D) and remove panel.




**LEGEND:**

| | |
|---|---|
| A | Low-Pressure Line |
| B | High-Pressure Line |
| C | Line Clamp Screw |
| D | Front Clamp Plate Allen-Head Screw |
| E | Back Clamp Plate Screws |
| F | Expansion Valve |

***9000T Series***

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# Group 15 - Track Frame

## Essential or Recommended Tools

**→NOTE:**

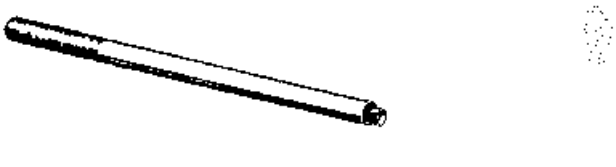
**Order tools from the U.S. SERVICEGARD ™ or European Microfiche Tool Catalogs.**

**ESSENTIAL TOOLS** listed are required to perform the job correctly and are obtainable**only** fromSERVICEGARD orEuropean Tool Catalogs .

**RECOMMENDED TOOLS** , as noted, are suggested to perform the job correctly. Some tools may be available from local suppliers or may be fabricated.

Driver Handle

JDG311



***JDG311***

Install pillow block seals

Driver Handle

JDG537



***JDG537***

Used with bearing and seal installers

Bearing Driver

JDG740



***JDG740***

Install oscillation bearing in track frame

Driver

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