

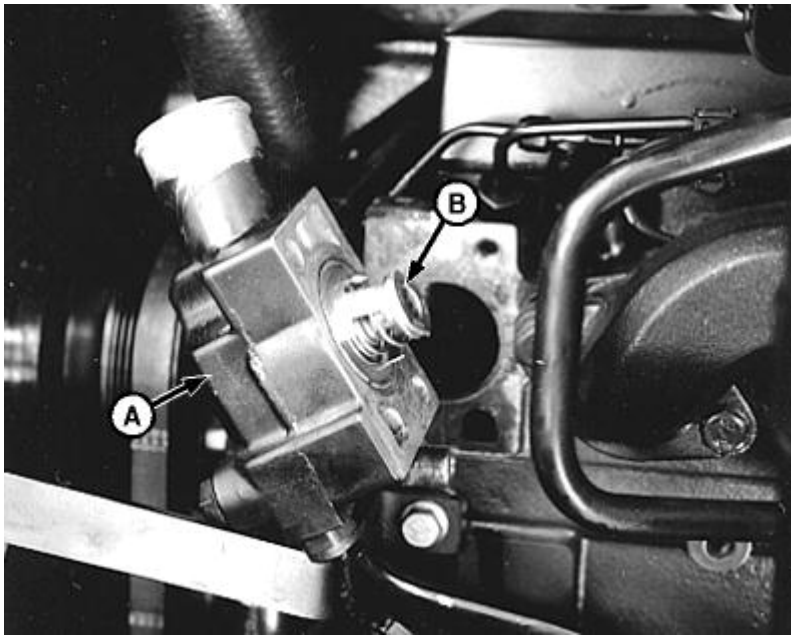
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Freeze Protection

The relative concentrations of glycol and water in the engine coolant determine its freeze protection limit.

Freeze protection

Ethylene Glycol	Freeze Protection Limit
40%	-24°C (-12°F)
50%	-37°C (-34°F)
60%	-52°C (-62°F)
Propylene Glycol	Freeze Protection Limit
40%	-21°C (-6°F)
50%	-33°C (-27°F)
60%	-49°C (-56°F)



Remove Housing

LEGEND:

- A Thermostat Housing
- B Thermostat

Remove thermostat housing (A) and thermostat (B).

[8] - Clean mating surfaces of thermostat housing (A) and cylinder head.

[9] -

→NOTE:

Install new thermostat with jiggle pin at top to improve de-aeration of coolant.

Replace thermostat (B) and install new gasket.

[10] -

necessary.

[11] - Install air cleaner in reverse order of removal.

[12] - Fully seat air cleaner canister (F).

[13] - Install cap screws (D) and clamps. Tighten to specification.

Item	Measurement	Specification
Cap Screw	Torque	30 N·m (22.12 lb-ft)

[14] - Connect air cleaner restriction sensor connector (A).

[6] - Replace light switch.

[7] - Install lock washer and nut (C).

[8] - Install knob (B) and screw (A).

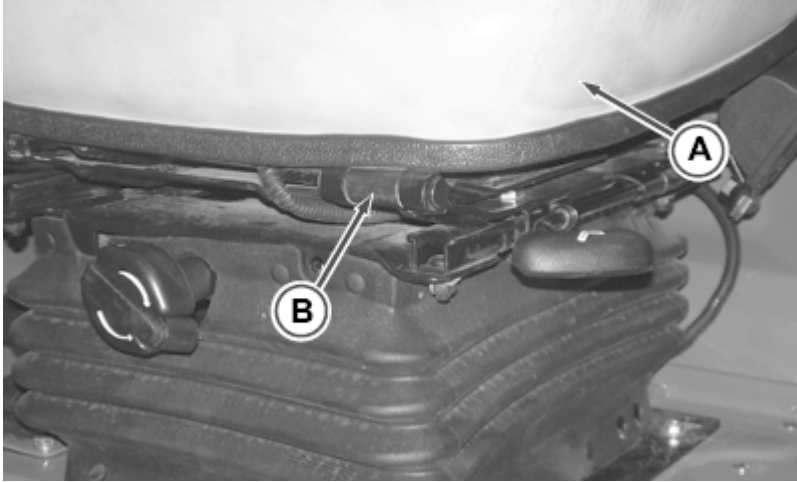
[9] - Connect wires to terminals (D—I).

[10] - Install cowl cover. (See [Remove and Install Cowl Cover](#) in Section 90, Group 10.)

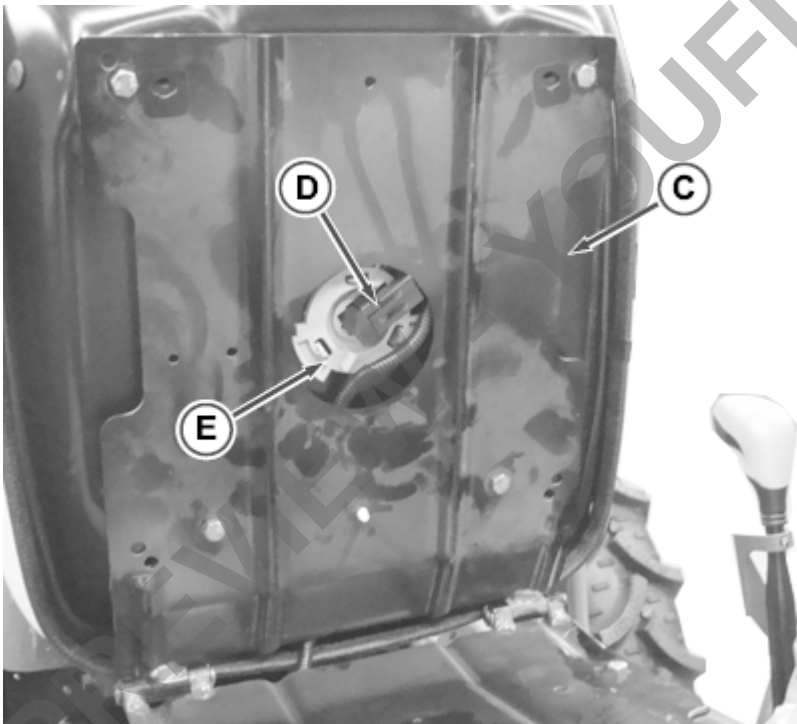
[11] - Connect battery negative (—) cable.

Replace Seat Switch—OOS

[1] -



Seat Switch

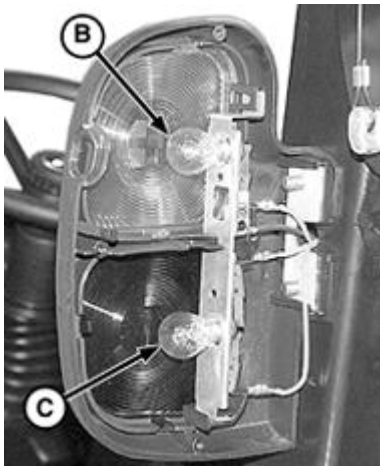


Seat Switch

LEGEND:

- A Seat
- B Pivot
- C Cover
- D Wire Connector
- E Switch

Disconnect battery negative (—) cable.



Bulb

LEGEND:

- A Lens Housing
- B Warning Light Bulb
- C Tail Light Bulb

Remove screws and lens housing (A).

[2] - Push and twist bulb (B or C) to remove from socket.

[3] - Install new bulb, lens housing and screws.

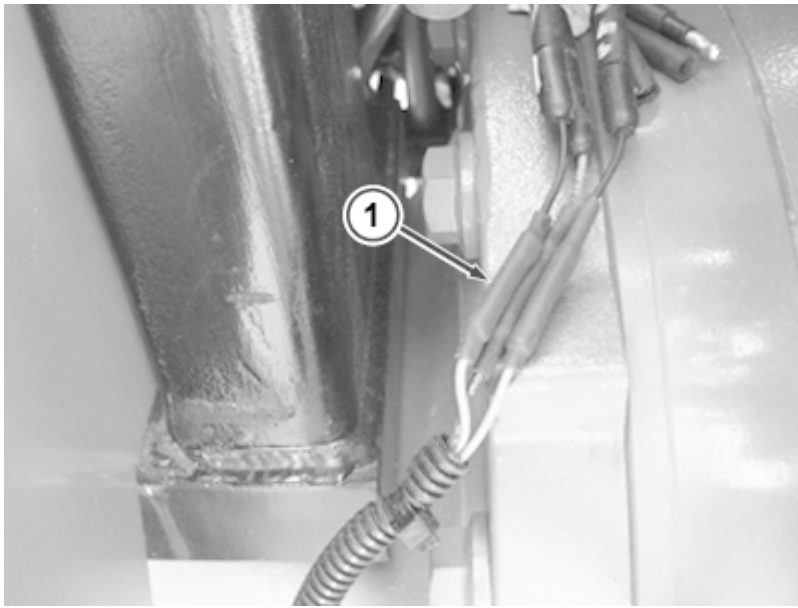
Replace Turn/Warning Light and/or Clearance Light Bulb—Open Operator's Station (Europe)

[1] -

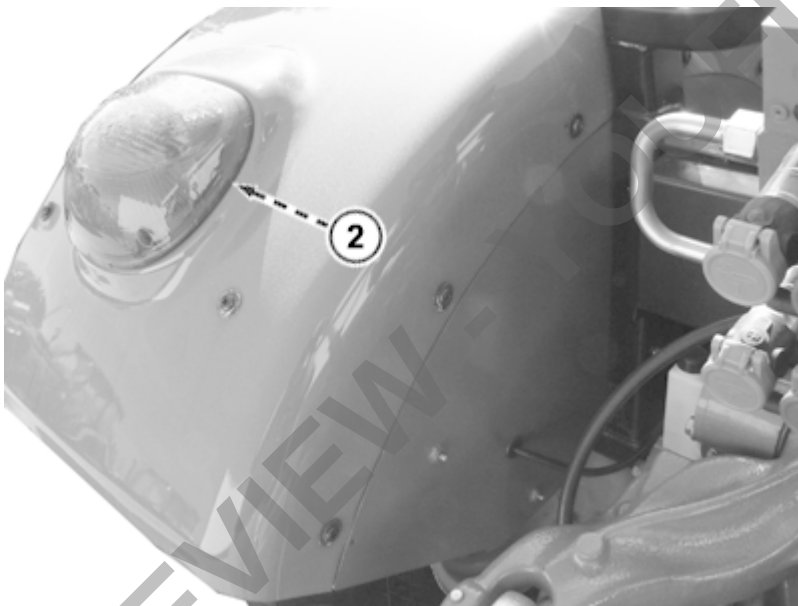
→NOTE:

Bulb replacement is the same for turn/warning light and/or clearance light. Left side shown.

Replace Left Rear Tail Light Harness (W117)



X116 Chassis to Left Rear Tail/Turn Light Harness Connector



E04 Left Rear Tail/Rear Turn Light

LEGEND:

- 1 X116 Chassis to Left Rear Tail/Turn Light Harness Connector
- 2 E04 Left Rear Tail/Rear Turn Light

[1] - Disconnect battery negative (—) cable.

[2] - Disconnect wire connectors (1 and 2).

[5] - Replace wire harness.

[6] - Connect wire connectors and leads (1—31).

[7] - Install hold-down clamps.

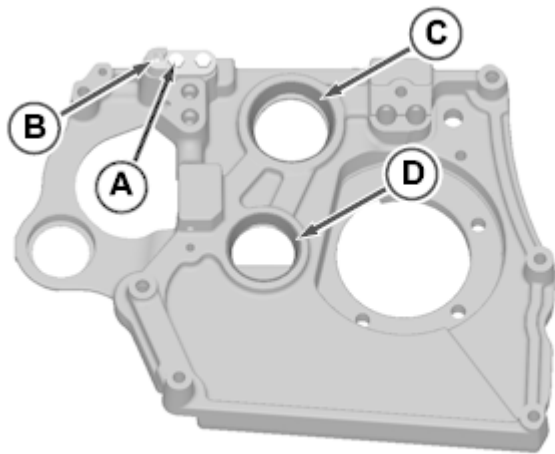
[8] - Install tie straps as necessary.

[9] - Connect battery negative (—) cable.

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Remove, Inspect and Install Creeper Control Lever and Cable—SS PlusTransmission (Cab)	508
Remove, Inspect and Install Creeper Control Lever and Cable—SR/PR/PR Plus Transmission (Cab)	510
Remove, Inspect and Install Creeper Gear Assembly	512
Creeper Interlock Shimming Procedure	530

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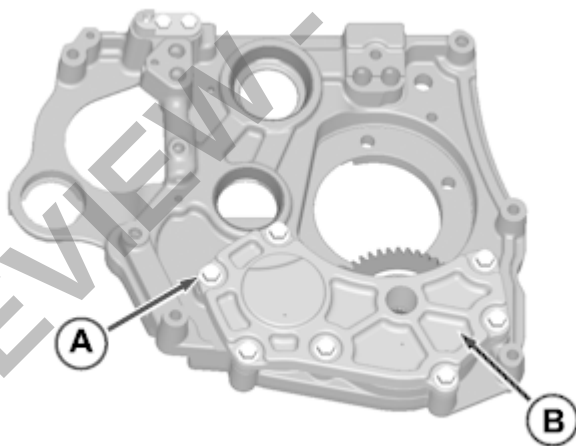
Mid-Wall Assembly without GD PTO and Creeper Gear

LEGEND:

- A Cap Screw
- B Gate Plate
- C Bearing Cup
- D Bearing Cup

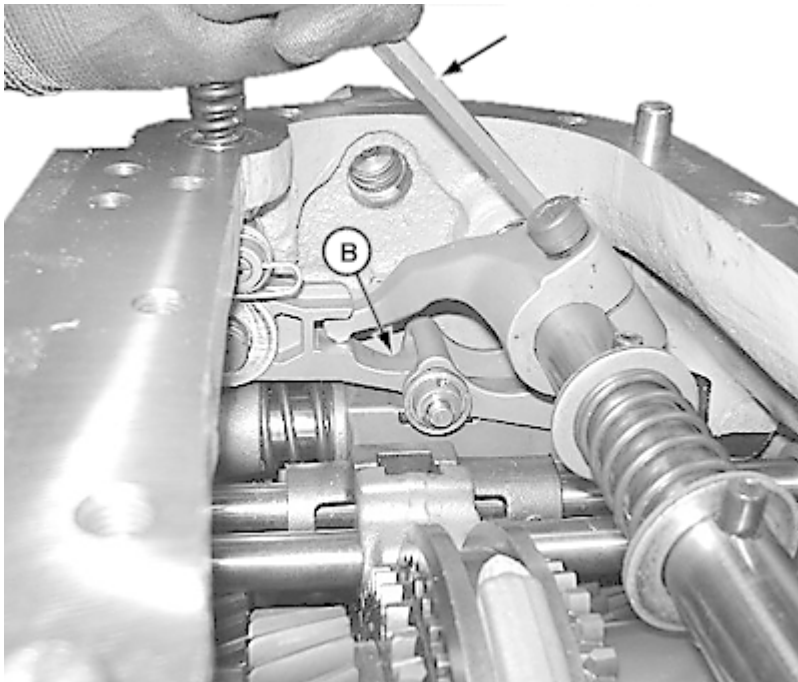
Disassemble mid-wall assembly if necessary.

- a. **Tractor without ground drive PTO and creeper gear:** If necessary, remove cap screws (A), gate plate (B) and bearing cups (C and D).

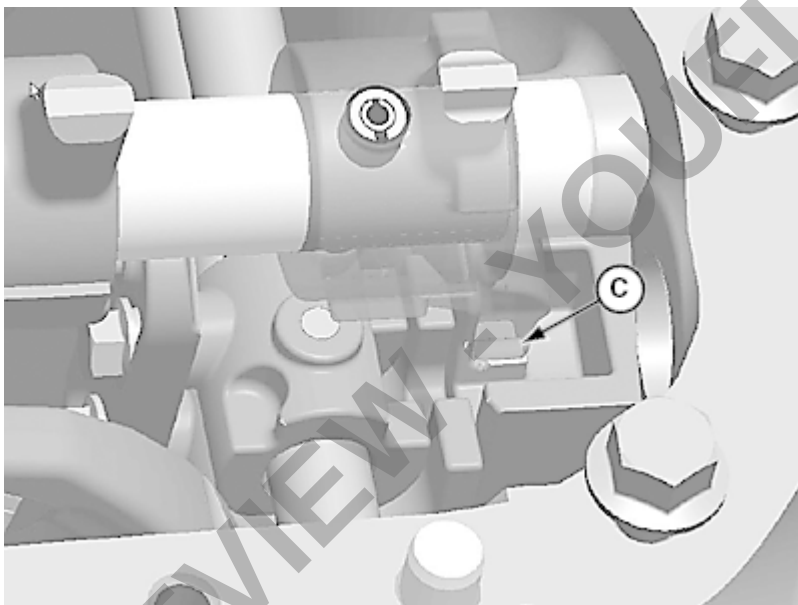


b.

With GD PTO



Linkage in Engaged Position



Speed Shift Arm in Park Position of Ground Block

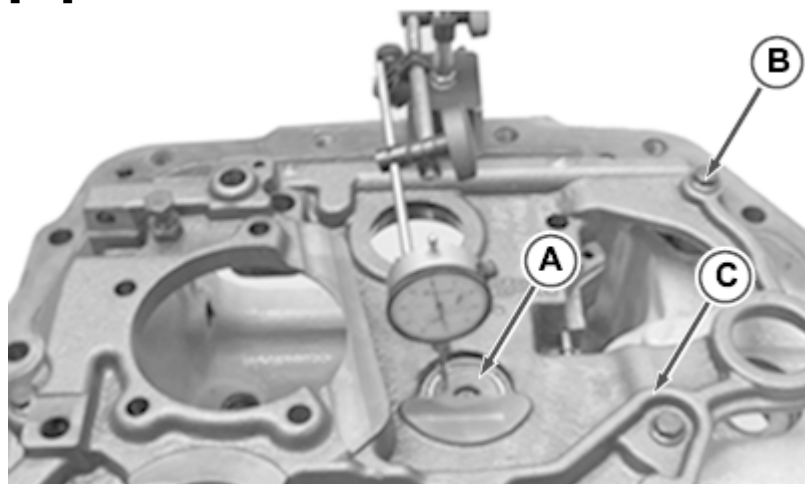
LEGEND:

- A Disengaged Park Position
- B Engaged Park Position
- C Speed Shift Arm in Park Position

Using a punch, as shown, move the linkage from the disengaged park position (A) to the engaged park position (B).

[2] - Place speed shift arm into park position (C) of ground block.

[10] -



Countershaft - End Play

LEGEND:

- A Countershaft Assembly
- B Mid-wall
- C Cap Screws

Install mid-wall (B) and cap screws (C). Tighten cap screws.

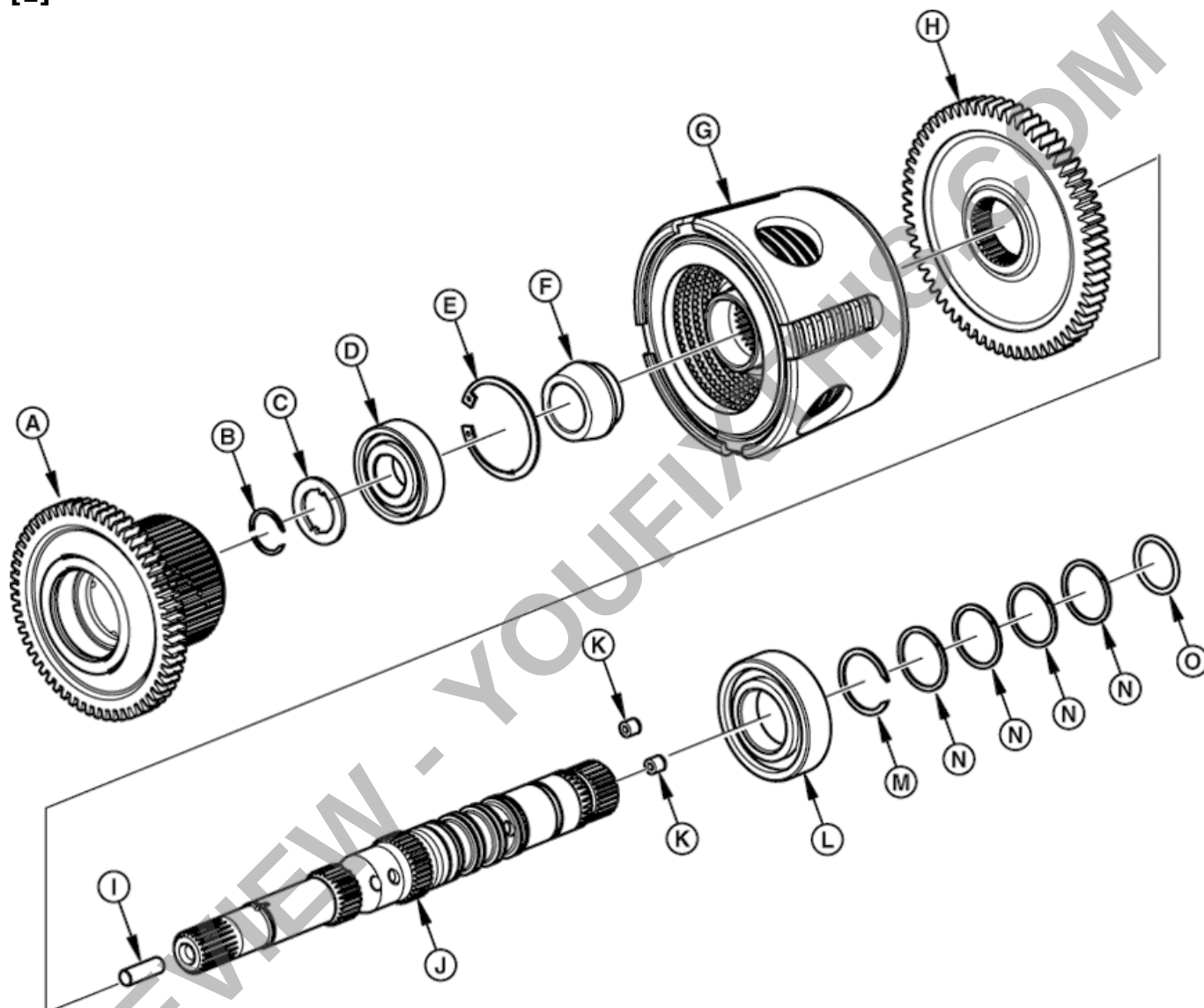
[11] - Attach dial indicator on transmission case with contact point positioned on countershaft (A).

[12] - Measure end play. Add or deduct shims (K—M) as required to meet specification.

Item	Measurement	Specification
Countershaft	End Play	0—0.10 mm (0—0.0045 in.)

Disassemble, Inspect and Assemble Low Clutch Shaft Assembly—PowrReverser Plus™ Transmission

[1] -



Low Clutch Shaft Assembly

LEGEND:

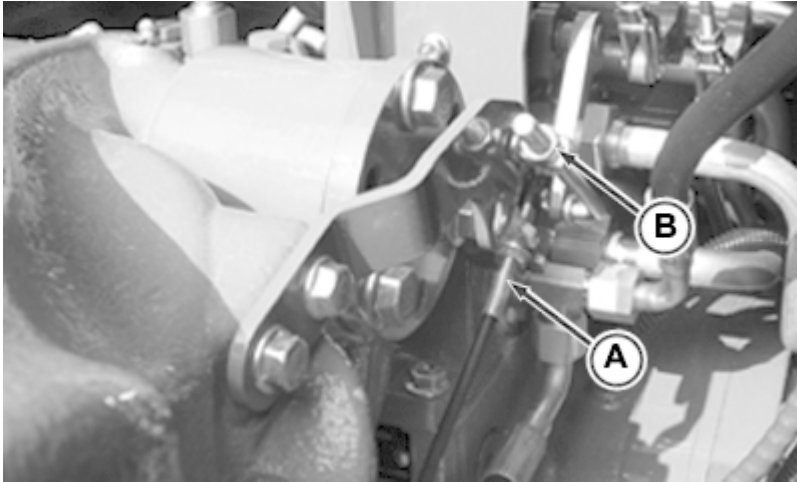
- A Hub
- B Snap Ring
- C Thrust Washer
- D Bearing
- E Snap Ring
- F Spacer
- G Clutch Pack
- H Gear
- I Oil Tube
- J Low Clutch Shaft

Disassemble, Inspect and Repair Control Valve - SR, PR and PR Plus Transmission

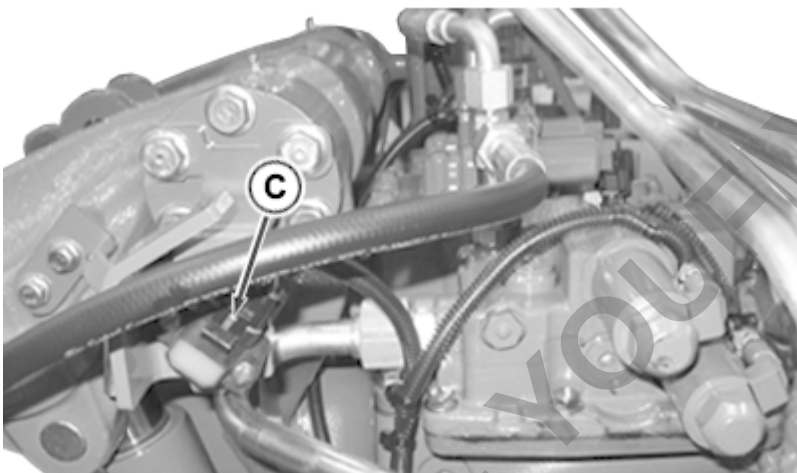
[1] -

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[69] -



Mechanical Hitch



Electro-Hydraulic Hitch

LEGEND:

- A Cable
- B Linkage
- C Wire Connector

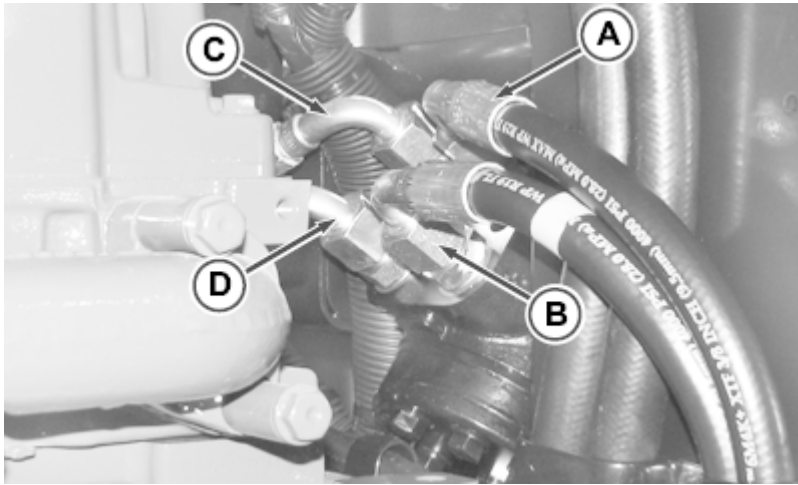
Tractors with Mechanical Hitch : Connect cable (A) and linkage (B).

[70] - Tractors with Electro-Hydraulic Hitch : Connect wire connector (C).

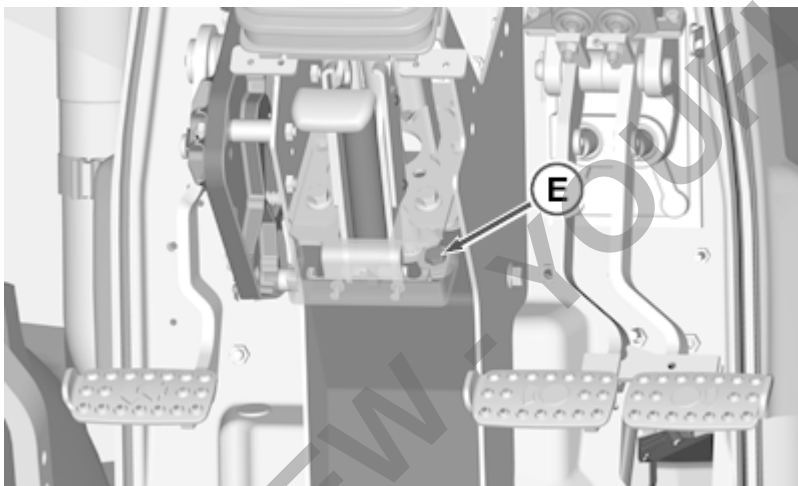
[71] -

Relieve any pressure in the system.

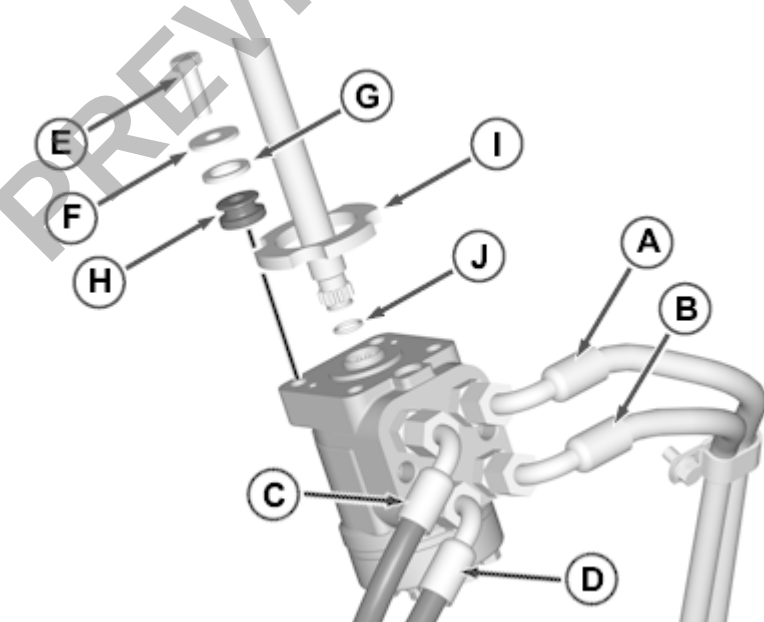
[3] -



Steering Lines



Control Support



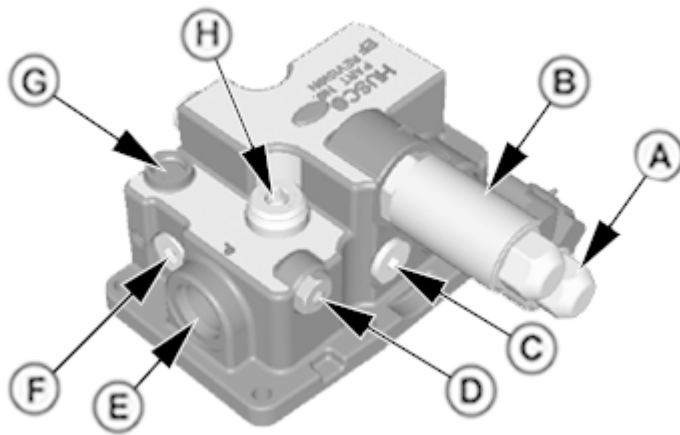
Item	Measurement	Specification
Rear Wheel-to-Axle Cap Screw M20	Torque	600 N·m (442 lb-ft)

[5] - Bleed brakes. (See [Bleed Brakes](#), in this Group.)

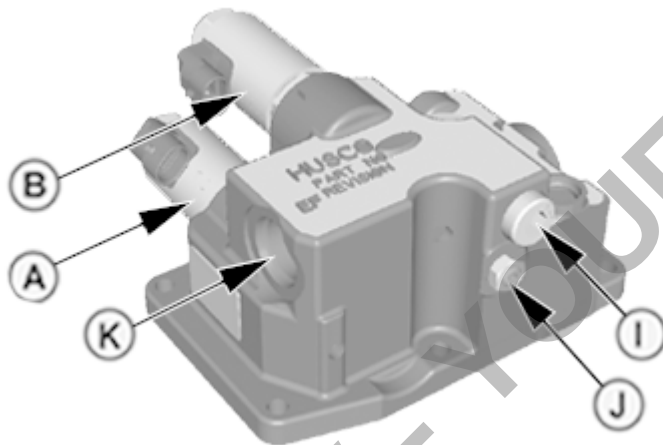
[6] - Check and adjust transmission/hydraulic oil level.

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Electro-Hydraulic Hitch Valve Components



Valve Components - Front



Valve Components - Back

LEGEND:

- A Raise Solenoid Valve
- B Lower Solenoid Valve
- C Compensator / Priority Valve
- D Manual Override Valve
- E Supply Port
- F Load Check Valve
- G Work Port
- H System Relief Valve
- I Work Port Pressure Relief Valve
- J Load Sense Relief Valve
- K Excess Flow Port

LEGEND:

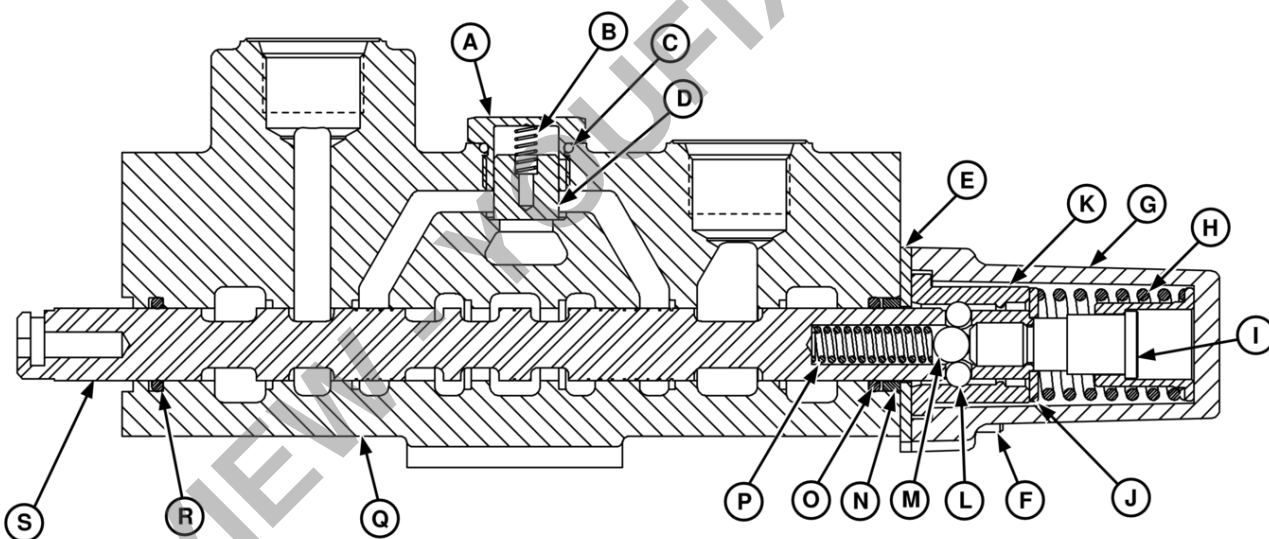
- A Allen Key
- B Detent
- C Detent Ball (4 used)
- D Float Detent

Place detent on spool.

[15] - Using a small Allen key (A) gently push in pilot ball and detent spring.

[16] - Carefully slide detent (B) over detent balls (C).

[17] -



SCV Cutaway - OOS and Cab

LEGEND:

- A Cap
- B Spring
- C O-Ring
- D Load Check Valve
- E Seal Plate
- F Socket Head Screw (2 used)
- G Cap
- H Spring
- I Plug

H	Spring
I	Plug
J	Spacer
K	Washer
L	Detent (Float Shown)
M	Detent Ball (4 used)
N	Pilot Ball
O	Back-Up Ring
P	O-Ring
Q	Detent Spring
R	Housing
S	O-Ring
T	Spool

Install parts (H—K). Tighten plug (I) to specification.

Item	Measurement	Specification
Plug (Internal Hex)	Torque	26—30 N·m (19—22 lb-ft)

[16] -

IMPORTANT:

Always use new seals and O-rings. Damaged or used seals and O-rings will leak.

Apply clean hydraulic oil to all internal parts before assembly.

Install new O-rings (S and P) and back-up ring (O).

[17] - Install seal plate (E).

[18] - Coat spool and bore with clean transmission/hydraulic oil.

[19] - Install spool.

[20] - Lightly coat detent assembly with multipurpose grease.

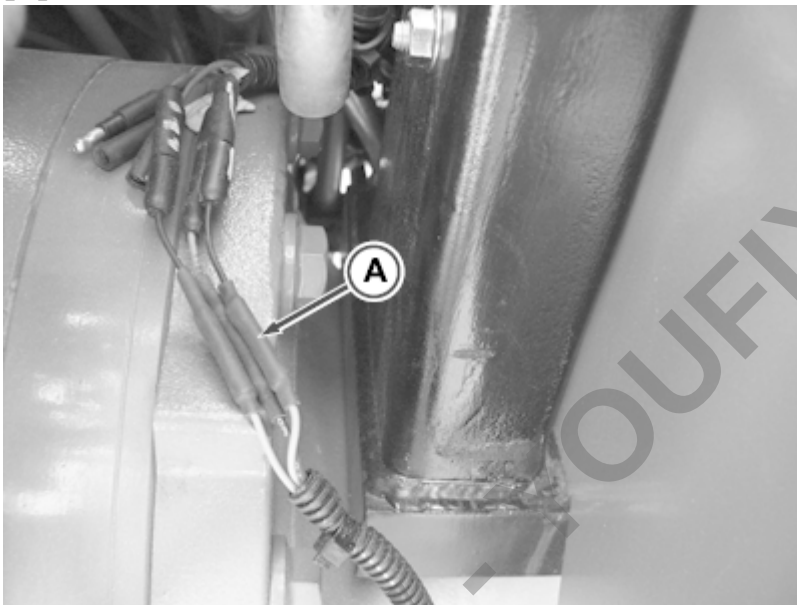
[21] - Apply Medium Strength Locking Liquid MT1247, to threads of socket head cap screws

Remove and Install Fenders—Low Profile

[1] - Remove rear wheels.

[2] - Remove right side control console. (See [Remove and Install Right-Side Control Console — Low Profile](#), in Section 90.)

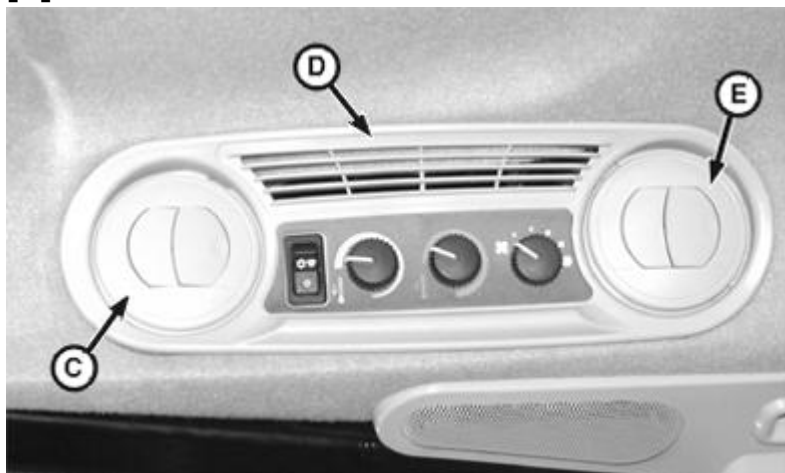
[3] -



Tail Light Harness Connector

[7] - Remove headliner from tractor. Repair or replace headliner as necessary.

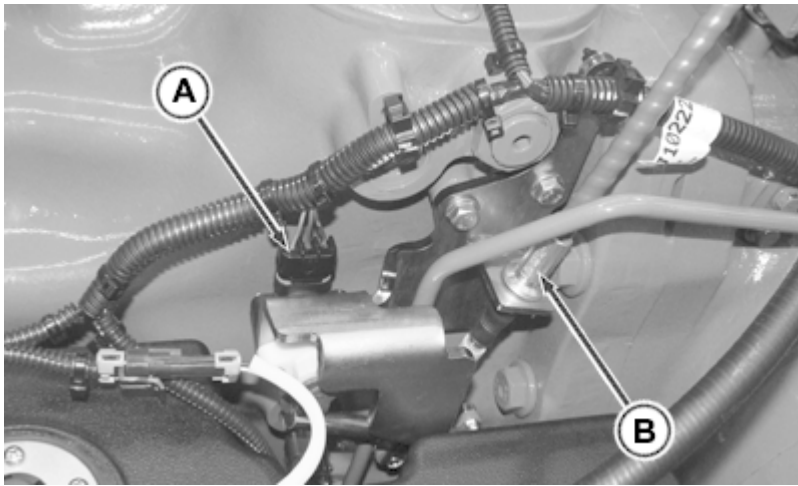
[8] -



Cab control console



Console light assembly



Creeper Control Cable

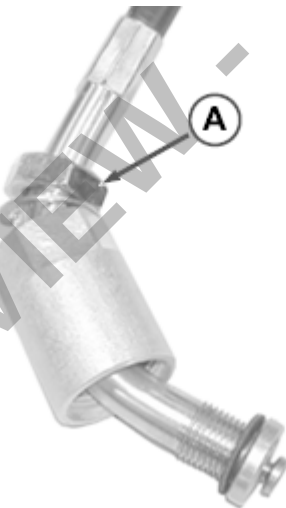
LEGEND:

- A Harness Connector
- B Creeper Control Cable

If equipped, connect harness connector (A) and control cable (B).

[22] - Adjust cables and linkage as necessary.

[23] -

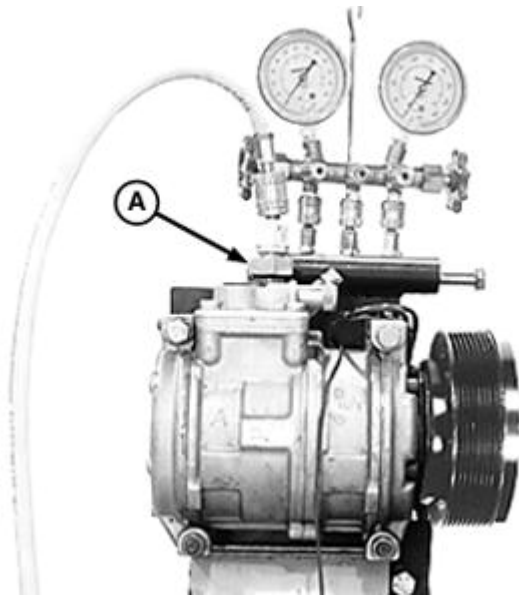


SCV Cable Retaining Nut

LEGEND:

- A Retaining Nut

Before installing SCV cables, inspect retaining nut (A). If loose, apply high strength Loctite 271 and tighten securely without damaging outer edge of retaining nut.



A/C compressor volumetric test

LEGEND:

A Discharge Port

Connect gauge set suction hose to discharge port (A) using Adapters JT02100 and JT02121, and JT02109 Hose.

[12] - Close gauge set suction side valve.

[13] - Rotate drive shaft no faster than two turns per second for six turns.

[14] - Record pressure after six complete turns. Pressure should be 380 kPa (3.8 bar) (55 psi) minimum.

[15] -

→NOTE:

Pressure normally leaks down when rotation stops.

Continue to rotate compressor at a uniform speed to obtain peak pressure. Compression pressure should increase smoothly and should not vary more than 34 kPa (0.34 bar) (5 psi) at peak pressure. Bleed off pressure and repeat steps 12, 13, 14, and 15 four times.

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