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Filling Fuel Tank

CAUTION:

Fill Fuel Tank Safely

Tier 2 Early Models

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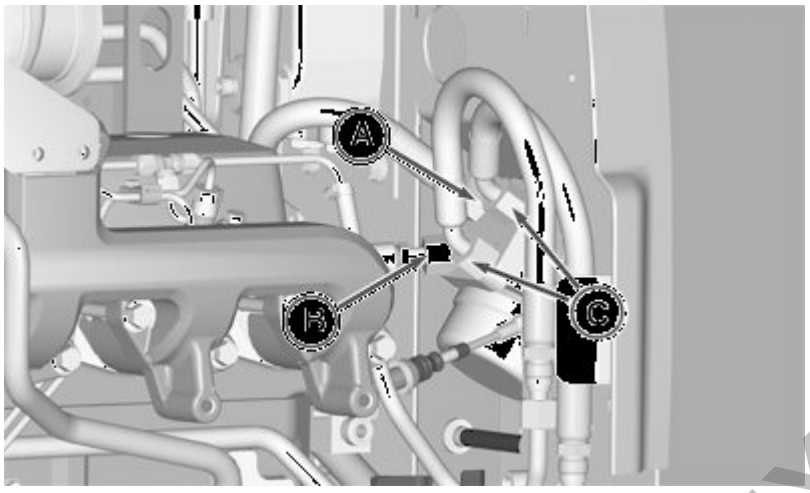
LEGEND:

A	Main Wiring Harness Connector
B	Wiring Harness Connectors

Disconnect wiring harness connectors (A and B).

[18] -



Steering Lines

LEGEND:

A	Steering Return Line
B	Steering Supply Line
C	Steering Line

Disconnect steering supply line (B), steering return line (A) and steering lines (C).

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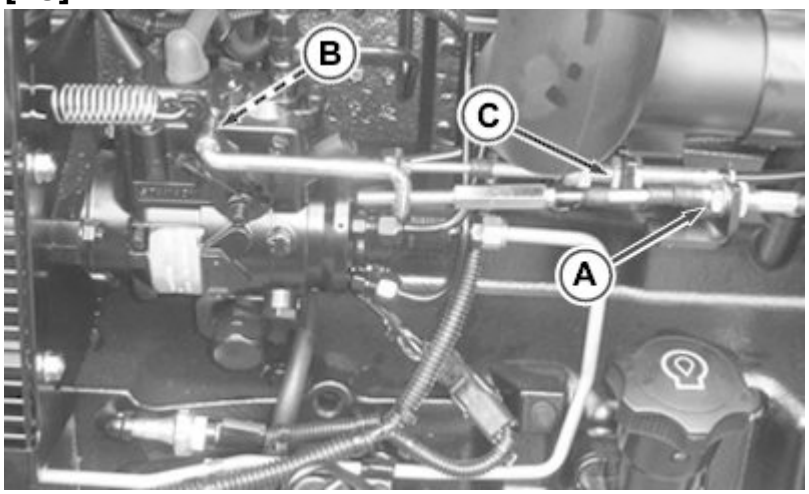
[18] -



Throttle Cable

LEGEND:

A	Nut—PTO Cable
B	Cotter Pin
C	Nut—Throttle Linkage

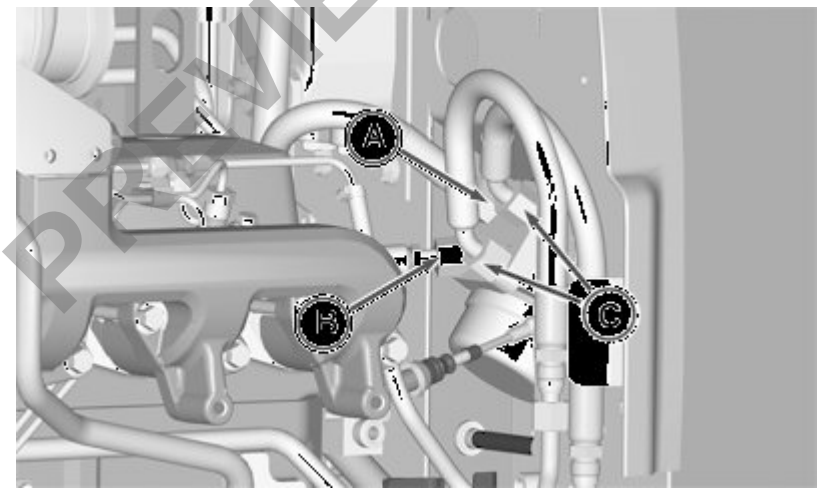
Install throttle linkage and tighten nut (C), and install cotter pin (B).

If equipped, install PTO cable and tighten nut (A).

[19] -

→NOTE:

Replace all O-rings and seals. Used or damaged O-rings and seals will leak.



Steering Return Line

LEGEND:

A	Steering Return Line

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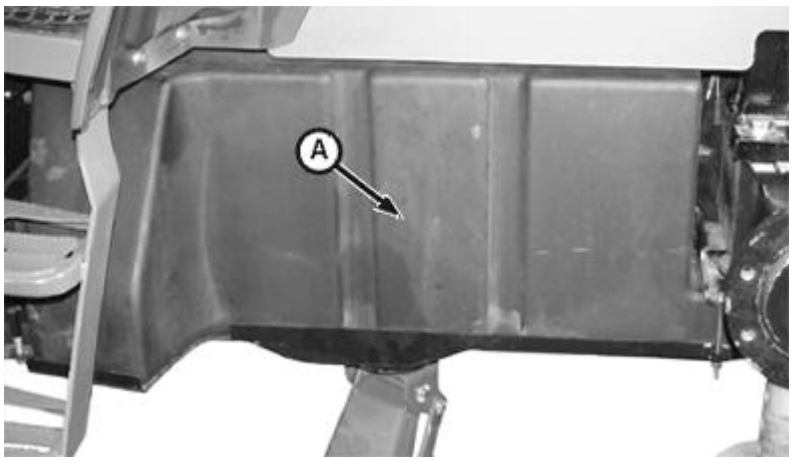


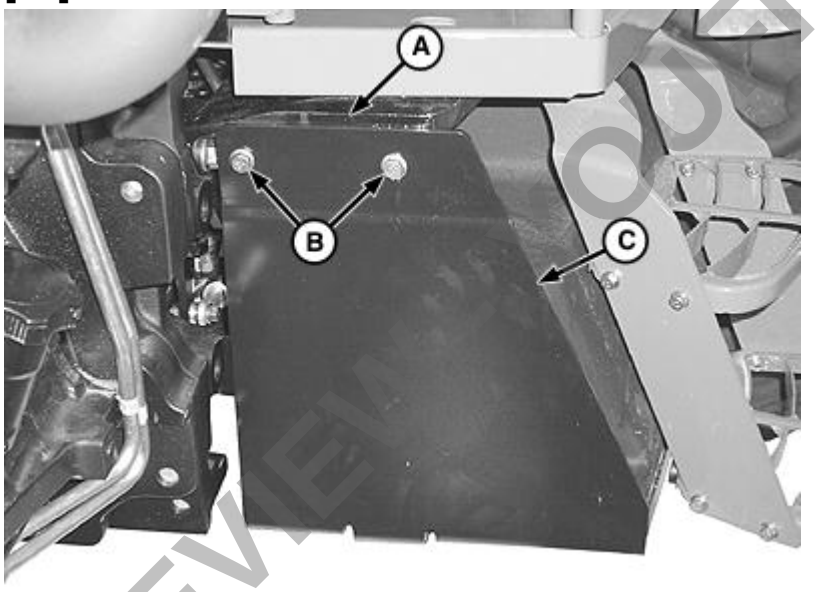
Fuel Tank

LEGEND:

A	Fuel Tank

Use a floor jack to support fuel tank (A).

[11] -



Fuel Tank Front Bracket

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[2] - Crank engine over with starting motor for 10 seconds. DO NOT crank engine longer than 30 seconds at a time to avoid damage to starting motor.

[3] - Connect wire lead (A) to fuel shutoff solenoid at injection pump.

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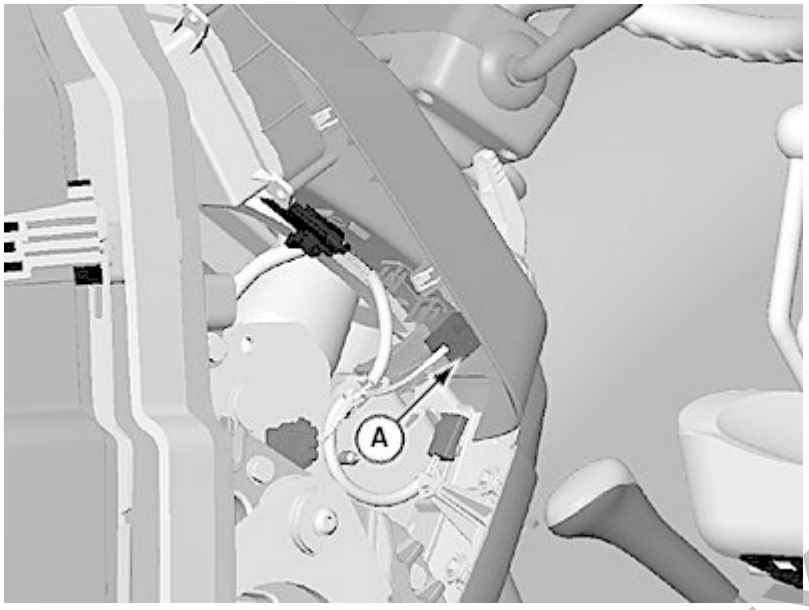
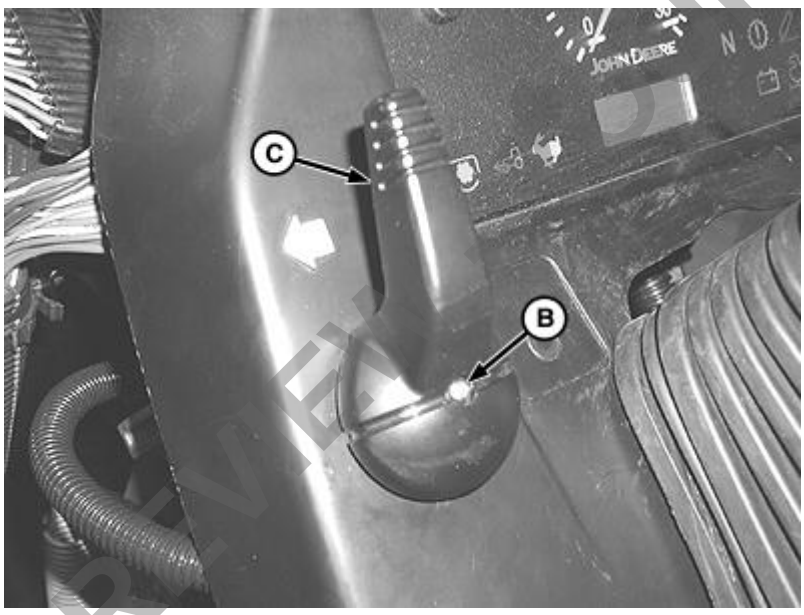
Replace Turn Signal Switch—Open Operator Station

[1] -



Turn Signal Switch Wiring Connector



Turn Signal Lever

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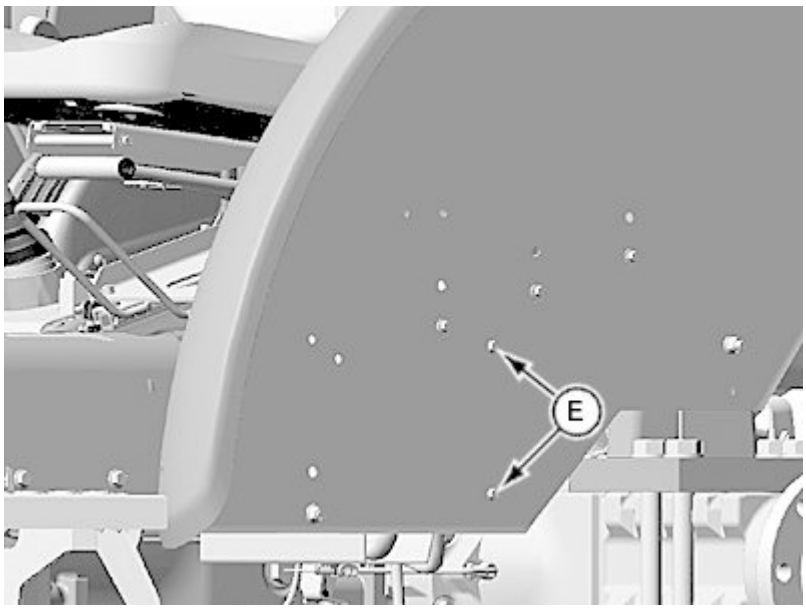

Remove Upper and Lower Cap Screws

LEGEND:

A	Wing Screw (2 used)
B	Load Center Cover
C	Electro-Hydraulic Wire Connectors
D	Electro-Hydraulic Controller
E	Cap Screw (2 used)

Disconnect battery negative (—) cable.

[2] - Remove wing screws (A) and load center cover (B).

[3] - Disconnect electro-hydraulic wire connectors (C).

[4] -

→NOTE:

Left rear tire not shown for clarity.

Remove upper and lower cap screws (E) and replace electro-hydraulic controller (D).

[5] - Install new electro-hydraulic controller (D), with cap screws (E).

[6] - Connect electro-hydraulic wire connectors (C).

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[12] -

Metri-Pack® Tab

LEGEND:

A	Locking Tab

Make sure locking tab (A) on new terminal is in outward position.

[13] - Push terminal into connector body socket until terminal locks.

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Group 11 - Clutch Assembly

Essential Tools

→NOTE:

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

Service Equipment and Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD ™ Catalog or from the European Microfiche Tool Catalog (MTC). Some tools may be available from a local supplier.

Other Material

Number	Name	Use
• TY6333 (us) • CXTY6333 (canadian)	Moly High Temperature EP Grease	Apply to PTO and traction clutch armshafts, clutch yoke shoes and clutch release bearing guide.
• PM37509 (us) • PM38611 (canadian) • 7649 Loctite ™ (loctite)	Cure Primer	Cleans parts and speeds cure of sealant on traction clutch yoke-to-armshaft cap screw threads.
• PM37477 (us) • 242 Loctite ™ (loctite)	Thread Lock and Sealer (Medium Strength)	Apply to PTO and traction clutch yoke-to-armshaft cap screw threads.

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Essential Tools

→NOTE:

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

Service Equipment and Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD ™ Catalog or from the European Microfiche Tool Catalog (MTC). Some tools may be available from a local supplier.

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Number	Name	Use
• TY6333 (us) • CXTY6333 (canadian)	Lithium Grease with Molybdenum Disulphide	Apply to ID of MFWD and range gear shifter collar.

[5] - Install all parts (A—K).

[6] - Install transmission.

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Disassemble, Inspect, and Assemble Rear 540/540E Electro-Hydraulic PTO Output Shaft Assembly

[1] -

→NOTE:

Shaft assemblies are slip fit in cover.

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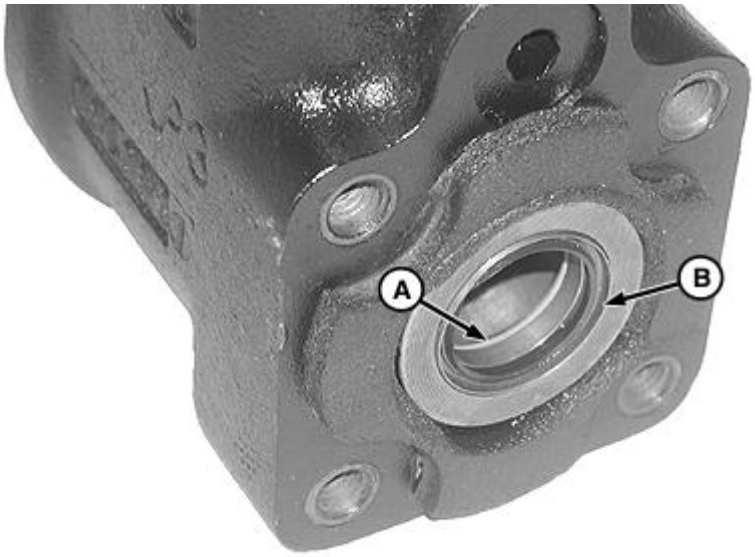
Install parts (A—I). Turn locking screw (G) the same number of turns in, as needed to remove.

[2] -



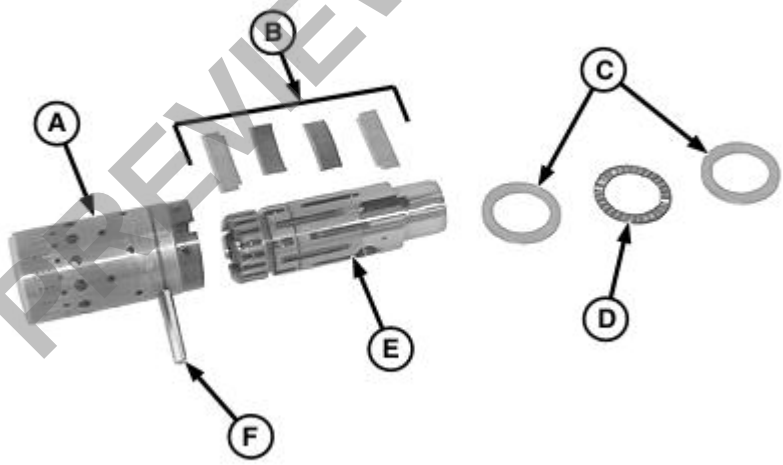
Install Seals

LEGEND:

A	Seal
B	Dust Seal

Install seal (A) and dust seal (B).

[3] -



Assemble Spool Valve

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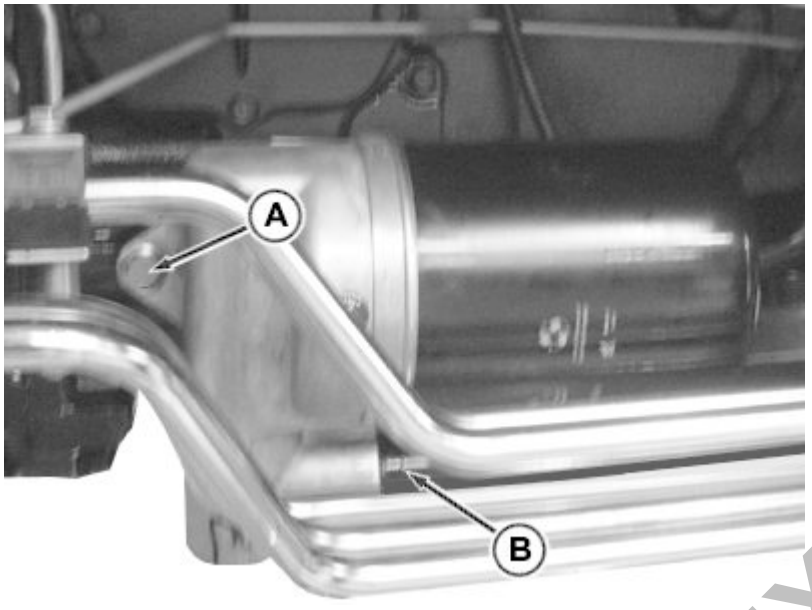
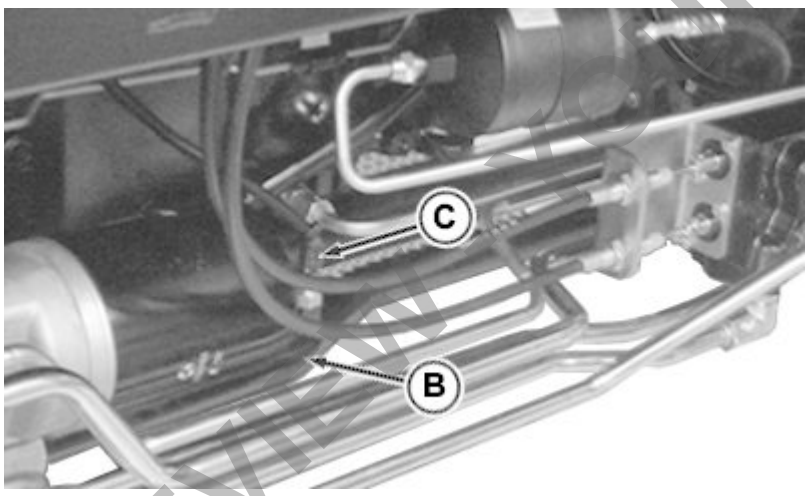
Remove and Install Hydraulic Oil Filter/Manifold

[1] -



Hydraulic Oil Filter/Manifold



Hydraulic Oil Temperature Sensor

LEGEND:

A	Cap Screw (3 used)
B	Suction Line
C	Wire Connector

Drain transmission/hydraulic oil.

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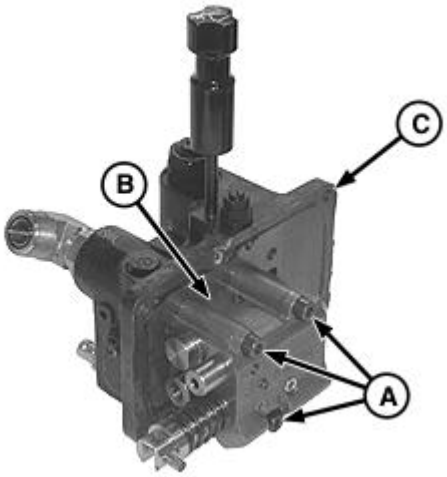
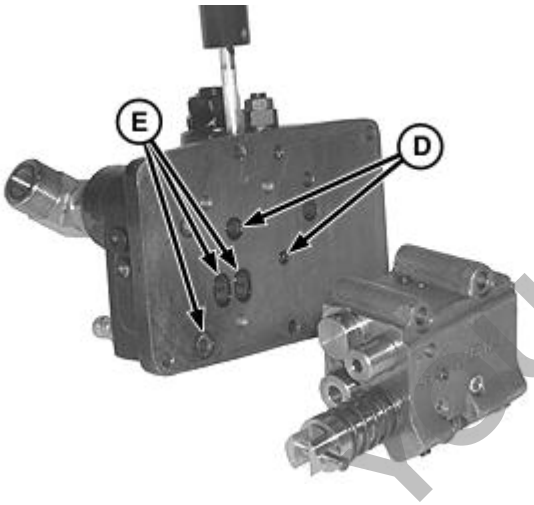


Rockshaft Control Valve



Inlet Housing O-Rings

LEGEND:

A	Socket Head Cap Screws
B	Rockshaft Control Valve
C	Inlet Housing
D	O-Rings
E	O-Rings

Remove cap screws (A) and separate control valve (B) from inlet housing (C).

[9] - Repair as necessary. (See Remove, Inspect, and Install Rate-of-Drop Valve—Later Version in Section 70, Group 10.)

[10] -

IMPORTANT:

Use new O-rings during assembly. Damaged or used O-rings will leak.

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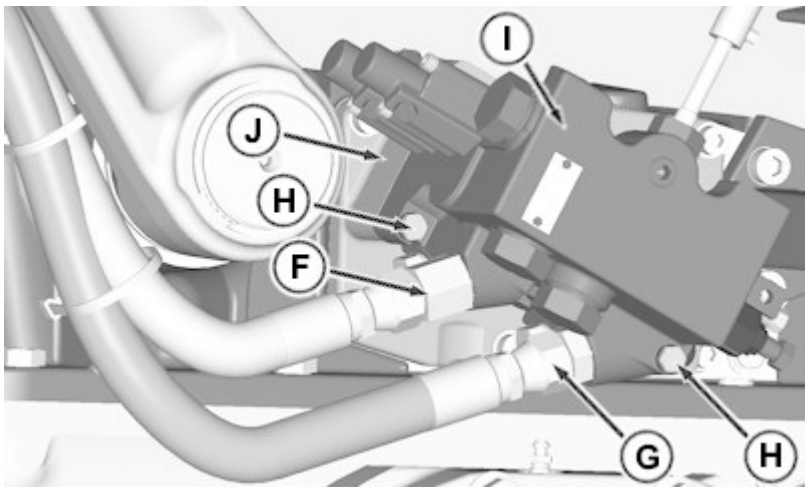

SCV

LEGEND:

A	Control Cable
B	RCV Hydraulic Line (Pressure)
C	Mid-Mount Control Valve Hydraulic Line (Return)
D	Mid-Mount Control Valve Hydraulic Line (Power Beyond)
E	Mid-Mount Control Valve Hydraulic Line (Pressure)
F	Hydraulic Hose (Retract)
G	Hydraulic Hose (Extend)
H	Screw (4 used)
I	SCV
J	Inlet Housing

Secure SCV (I) to inlet housing (J) with screws (H) on back side of SCV. Tighten to specification.

Item	Measurement	Specification
SCV Mounting Screws	Torque	12 N·m (106 lb.-in.)

[10] - Connect SCV hydraulic hoses (F and G). Tighten hydraulic hose nuts to specification.

Item	Measurement	Specification
Hydraulic Hoses Nut at SCV End	Torque	50 N·m (37 lb.-ft.)
Hydraulic Hoses Nut at Coupler End	Torque	69 N·m (51 lb.-ft.)

[11] - If equipped, connect hydraulic lines (C, D, and E). Tighten hydraulic hose nuts to specification.

Item	Measurement	Specification
Mid-Mount Control Valve Hydraulic Lines Nuts to RCV End	Torque	69 N·m (51 lb.-ft.)

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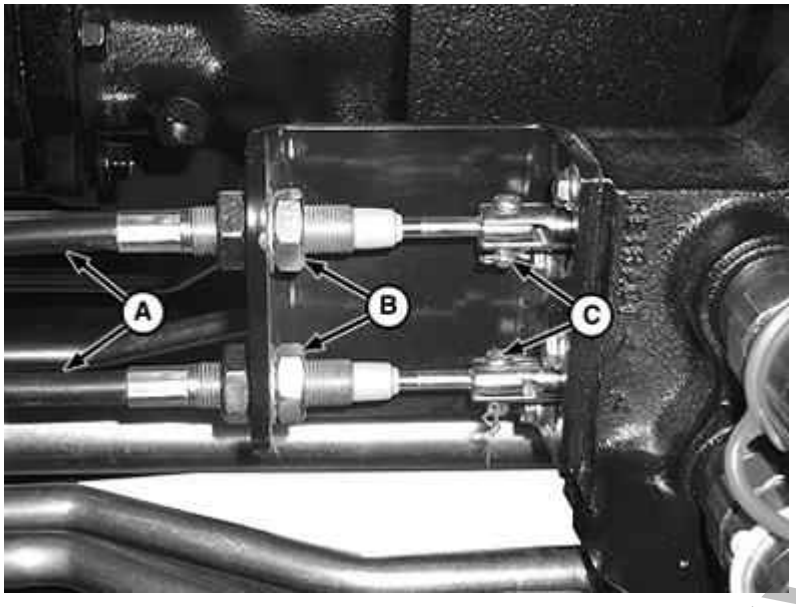
Inspect and Repair Joystick and Linkage

[1] -



Remove Mid-Mount Cables

LEGEND:

A	Control Cable (2 used)
B	Jam Nut (2 used)
C	Pin (2 used)

Remove pins (C).

[2] - Remove jam nuts (B) and control cables (A).

[3] -

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K	Support
L	Cap Screw (6 used)
M	Cap Screw (4 used)
N	Latch
O	Pin

Remove parts (A—E).

[2] - Lift latch (N) and pull pin (O) upward.

[3] - Remove draw bar (J).

[4] -

→NOTE:

Use a floor jack under support (K) to support weight during removal.

Install floor jack under support (K) and remove cap screws (G and M) to remove support assembly.

[5] - Remove cap screws (L) to remove side plates (F).

[6] - Inspect all parts for wear or damage. Replace if necessary.

[7] - Install parts (A—O). Tighten cap screws (L, G and M) to specification.

Item	Measurement	Specification
Draw Bar Support Rear Cap Screw	Torque	200 N˙m (148 lb-ft)
Draw Bar Support Bottom Cap Screw	Torque	310 N˙m (229 lb-ft)
Draw Bar Support Side Cap Screw	Torque	200 N˙m (148 lb-ft)

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[16] - Install auxiliary work lights (A), if equipped.

[17] - Operate windshield wiper and make sure wiper blade is aligned with windshield.

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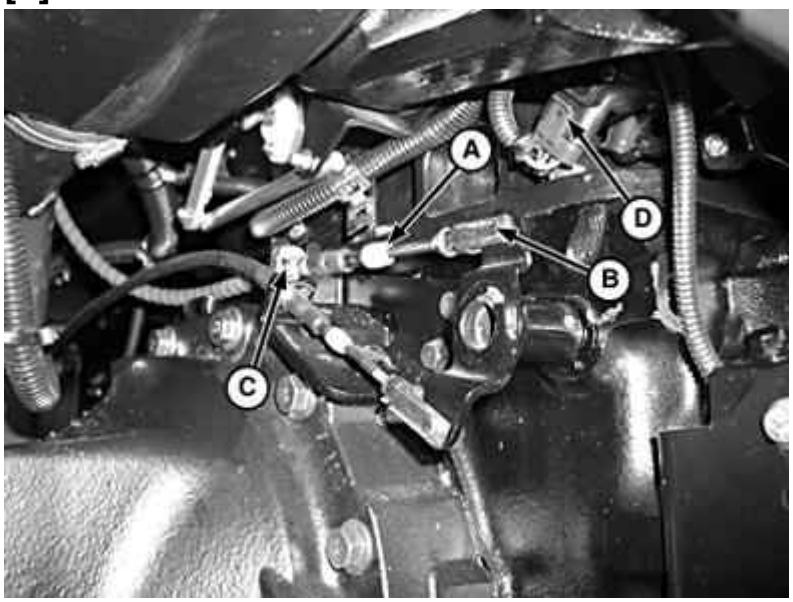
[7] -



PTO Control Cable

LEGEND:

A	PTO Control Cable
B	Locking Spring Pin
C	Retaining Clip
D	Wire Connector

Install PTO control cable (A), retaining clip (C) and locking spring pin (B).

[8] - Check PTO control cable adjustment. (See PTO Lever and Linkage Adjustment in Diagnostic Manual, Section 256, Group 15.)

[9] - Connect wire connector (D).

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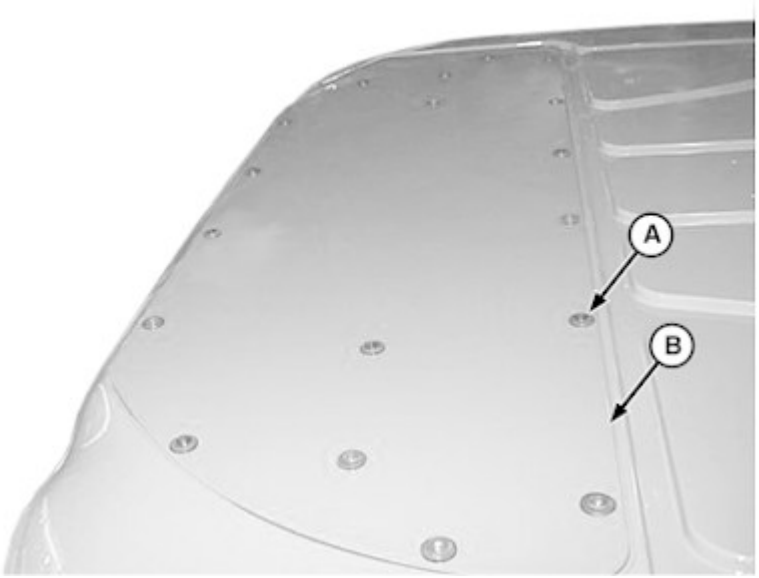
[1] -



HVAC Cover

LEGEND:

A	Screws
B	Cover

Remove screws (A) and cover (B).

[2] - Make repairs as necessary.

[3] - Check HVAC cover seal, replace if needed.

[4] - Install screws (A) and cover (B).

Remove Blower Motors

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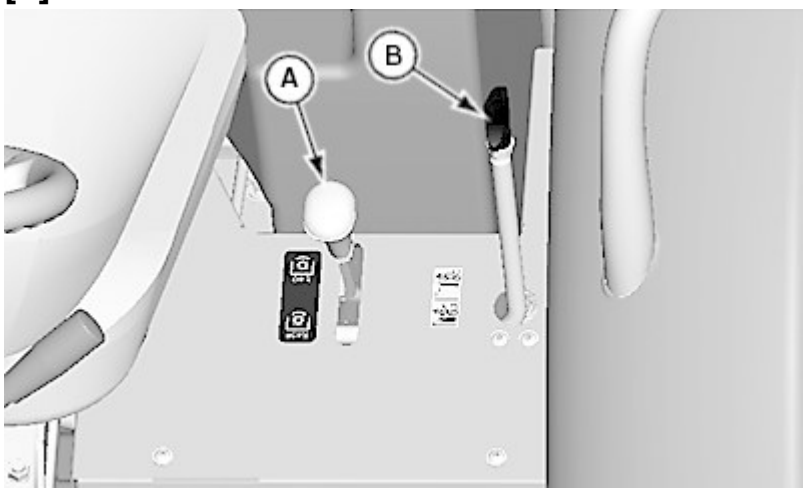
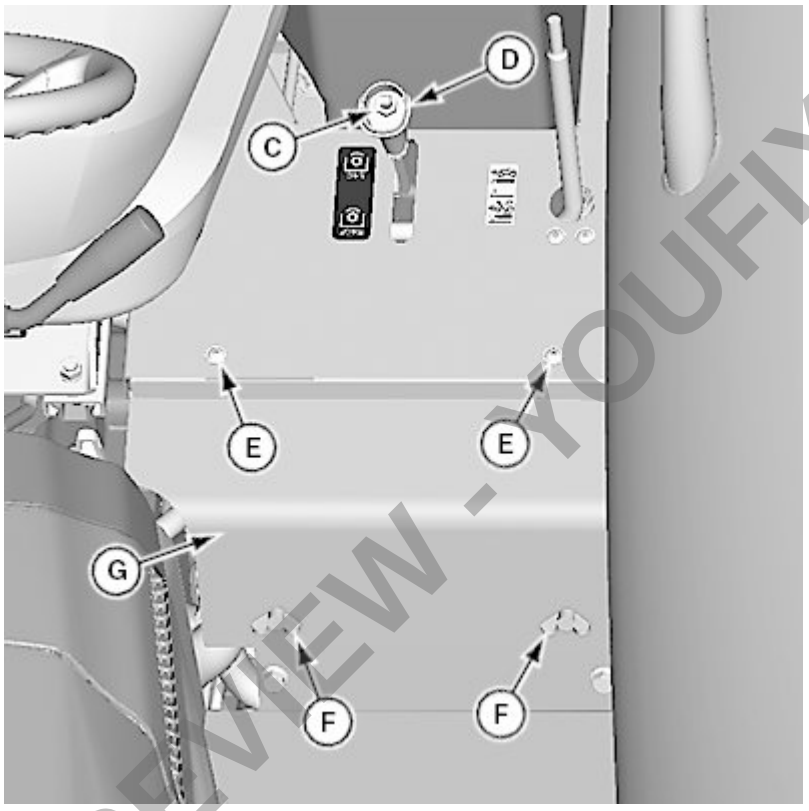
[7] -



Left-Side Control Console



Left-Side Control Console

LEGEND:

A	Cap
B	Knob
C	Nut
D	Knob
E	Screw (2 used)
F	Wing Screw (2 used)
G	Load Center Cover

Install load center cover (G), and wing screws (F).

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Remove Cab

[1] -

⚠ CAUTION:

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Remove filler cap only when cool enough to touch with bare hands. Slowly loosen cap to relieve pressure before removing completely.

Always pay close attention to battery terminals.

If the air conditioning sub-assemblies are not handled correctly, leaks will result. If leaks occur, pressurized refrigerant will escape, possibly leading to severe personal injury. Always wear appropriate safety gear when working on the air conditioning system.

Pressurized fluid safety

Put tractor in parking position.

[2] - Open the hood. Disconnect the negative terminal (—) on the battery.

[3] - Remove hood. (See Remove and Install Hood, in Section 80.)

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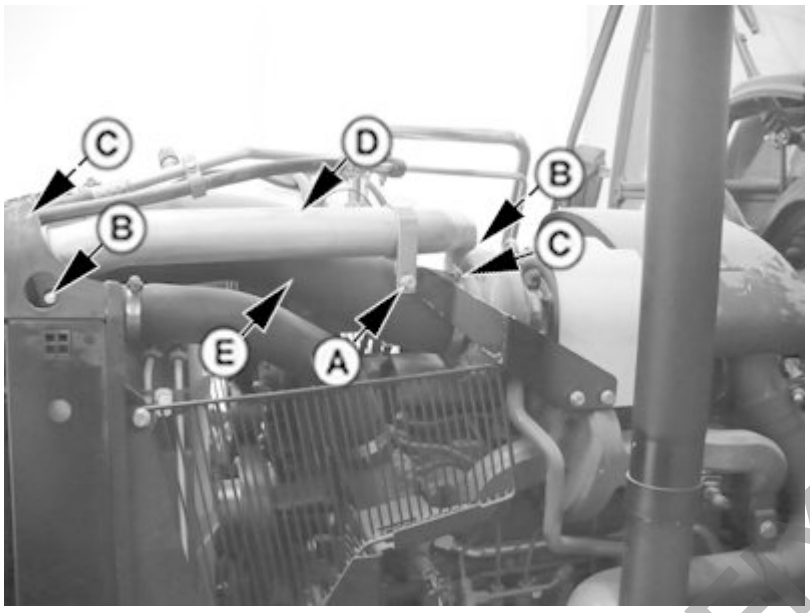
Remove, Inspect, and Install Air Conditioning Compressor

[1] -



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LEGEND:

A	Cap screw
B	Clamp
C	Clamp
D	Pipe
E	Hose

Recover/recycle air conditioning refrigerant. (See Recover/Recycle Air Conditioning Refrigerant in this Group.)

[2] - Remove cap screw (A).

[3] - Remove clamps (B).

[4] - Remove pipe (D).

[5] - Remove clamps (C).

[6] - Remove hose (E).

[7] - Release belt tension and remove belt from compressor pulley.

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