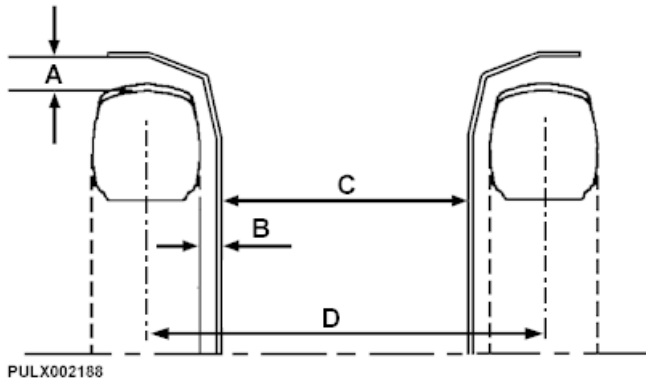
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Observe Rear Wheel Tread Width Limitations

IMPORTANT:



Tire-to-fender clearance

When changing rear tires, check clearance (A) and (B) between tires and fenders.

Depending on the tractor version, tires must clear the fenders by at least:

.

Tire Size	Standard Tractors			
	Minimum Values			
	A	B	C	D
14.9 R28 (380/85 R28)	152 mm (6 in.)	68 mm (3 in.)	895 mm (35 in.)	1418 mm (56 in.)
420/70 R28	149 mm (6 in.)	98.5 mm (4 in.)	895 mm (35 in.)	1522 mm (60 in.)
14.9 R30 (380/85 R30)	126 mm (5 in.)	59 mm (2 in.)	895 mm (35 in.)	1400 mm (55 in.)
16.9 R30 (420/85 R30)	89 mm (4 in.)	81 mm (3 in.)	895 mm (35 in.)	1504 mm (59 in.)
480/70 R30	82 mm (3 in.)	57 mm (2 in.)	895 mm (35 in.)	1504 mm (59 in.)
540/65 R30	91 mm (4 in.)	86 mm (3 in.)	895 mm (35 in.)	1598 mm (63 in.)
12.4 R36 (320/85 R360)	101 mm (4 in.)	84.5 mm (3 in.)	895 mm (35 in.)	1384 mm (54 in.)
23.1-26	62 mm (2 in.)	160 mm (6 in.)	895 mm (35 in.)	1780 mm (70 in.)
13.6 R36	72 mm (3 in.)	67.5 mm (3 in.)	895 mm (35 in.)	1384 mm (54 in.)

.

Tire Size	F-Type Tractors			
	Minimum Values			
	A	B	C	D
320/85 R24	163 mm (6 in.)	67.5 mm (3 in.)	540 mm (21 in.)	1004 mm (40 in.)
340/85 R24	146 mm (6 in.)	62.5 mm (3 in.)	540 mm (21 in.)	1004 mm (40 in.)
360/70 R24	166.5 mm (7 in.)	51.5 mm (2 in.)	540 mm (21 in.)	1004 mm (40 in.)
380/70 R24	143.5 mm (6 in.)	35 mm (1 in.)	540 mm (21 in.)	1004 mm (40 in.)

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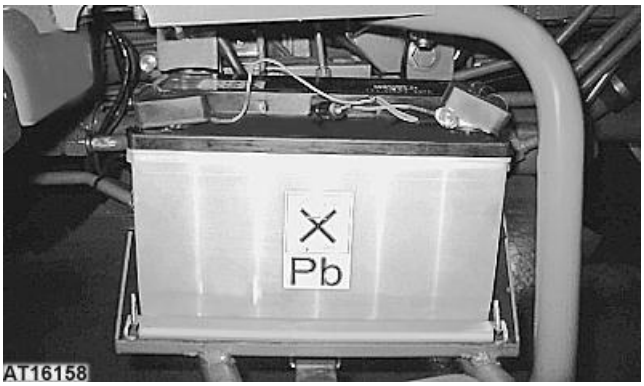
Operate the hand primer on fuel transfer pump until fuel appears at the opening, then tighten fuel return line.

Starting Motor

If the starting motor fails to operate after the starter switch has been operated, the complete starter system must be thoroughly checked. Check specific gravity of battery with an hydrometer and make sure that none of the cables are broken or worn through and that none of the cable connections are loose or corroded.

If the above checks fail to improve the operation of the starting motor, see your John Deere dealer.

Battery - Checking Specific Gravity



Checking specific gravity of the electrolyte

Use an hydrometer to check the specific gravity of the electrolyte in each battery cell.

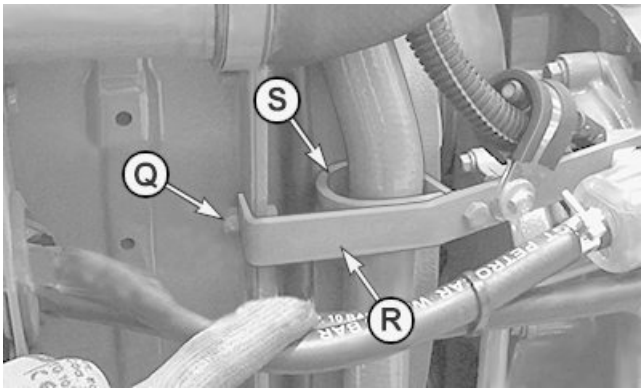
A fully charged battery should have a specific gravity reading of 1.28. Recharge battery if reading drops below 1.20.

→NOTE:

In tropical regions, the battery is fully charged when the reading is 1.23.

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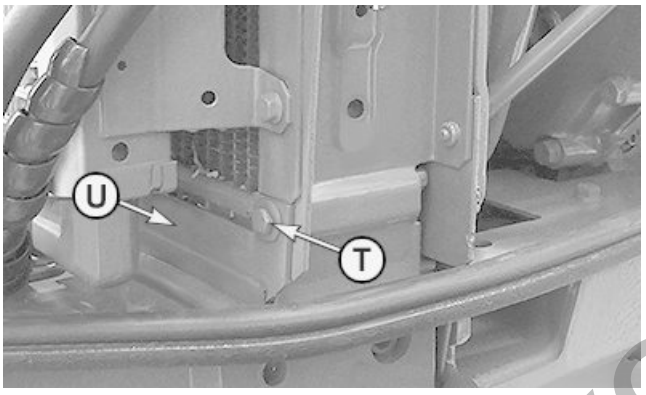
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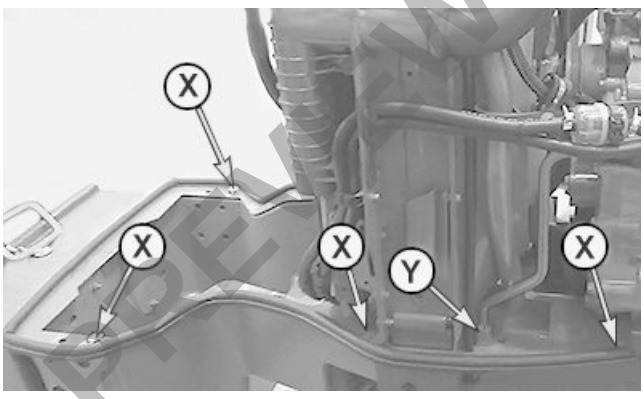
[17] - Remove clamp (S).

[18] - Unscrew the bolts (T) from both sides end remove the protection (U).



.

[19] - Remove the screws (X) on both sides.



.

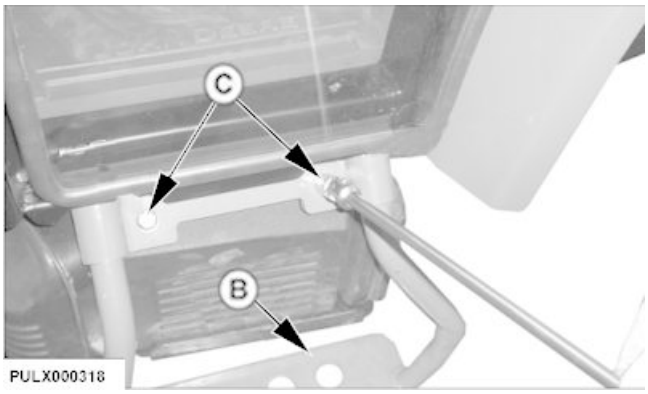
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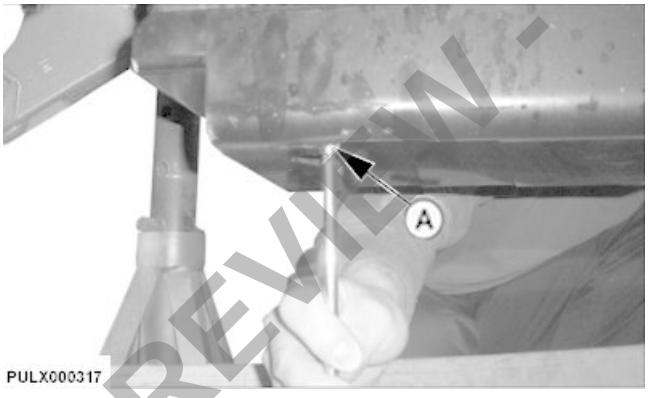
.

[13] - Install stairs (B) and screws (C).

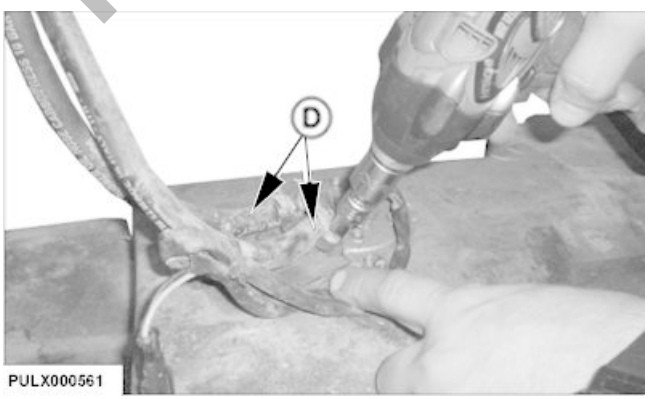


.

[14] - Install drain plug (A).



Drain Plug



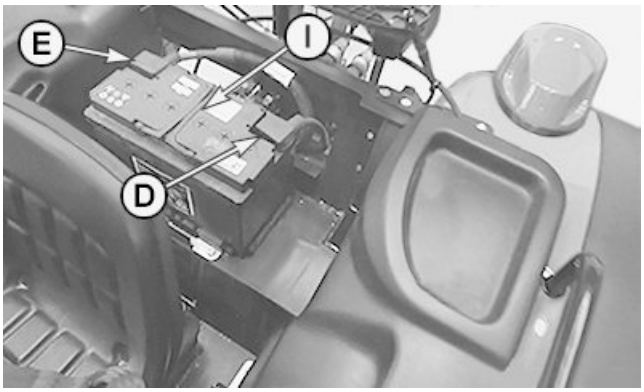
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[2] - Remove knobs mounting (B).

[3] - Remove battery cover (C).

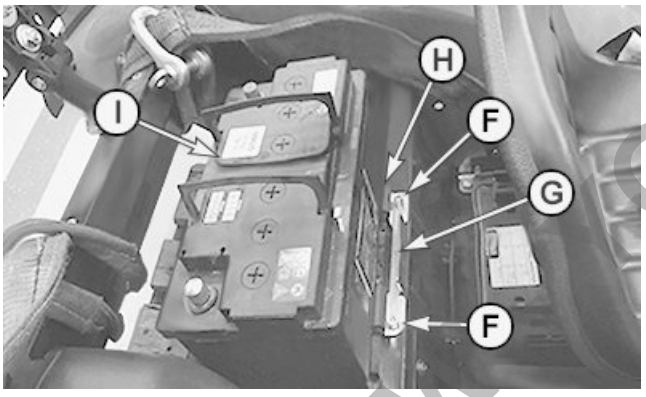
[4] - Disconnect ground (—) cable (E) from battery (I).



.

[5] - Disconnect positive (+) cable (D) from battery (I).

[6] - Remove screws (F).



.

[7] - Remove metal bracket (G) and rubber elements (H).

[8] - Remove battery (I) from battery tray.

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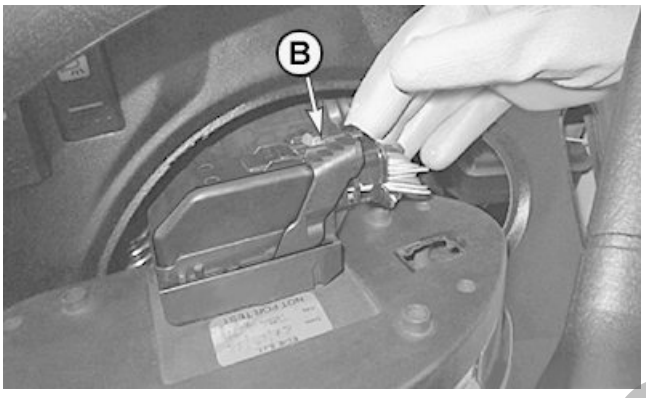
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Replace Dashboard

5G-5GH MODELS



.



.

[1] - Disconnect battery negative (—) cable. See Disconnect battery in this Section

[2] - Lift the dashboard (A) from instrument panel.

[3] - Extract the dashboard from instrument panel.

[4] - Disconnect the connector (B) from instrument

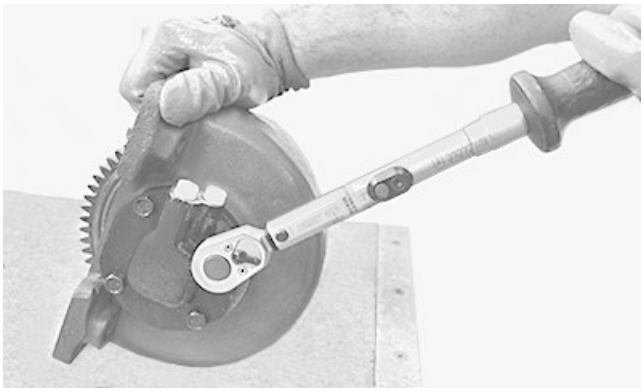
[5] - Replace the dashboard.

[6] - Install all parts in reverse order.

5GL MODELS

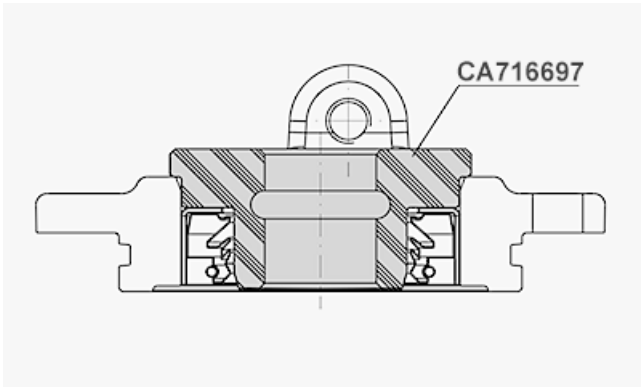
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[22] - Assemble a new seal ring (L) to the cover (U) using the prescribed special tool.

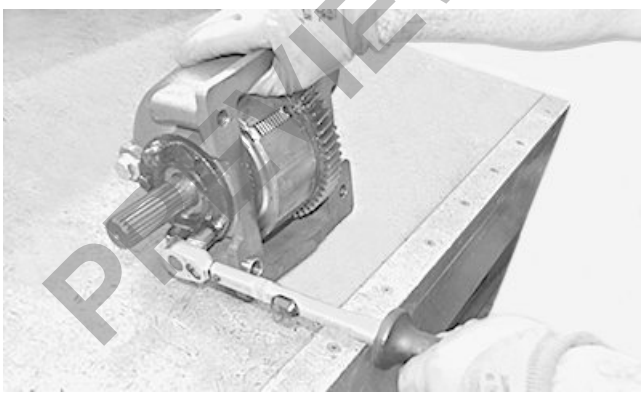


.

→NOTE:

Respect indicated assembly direction.

[23] - Assemble the cover (U).



.

[24] - Assemble the bolts (V) to the prescribed torque.

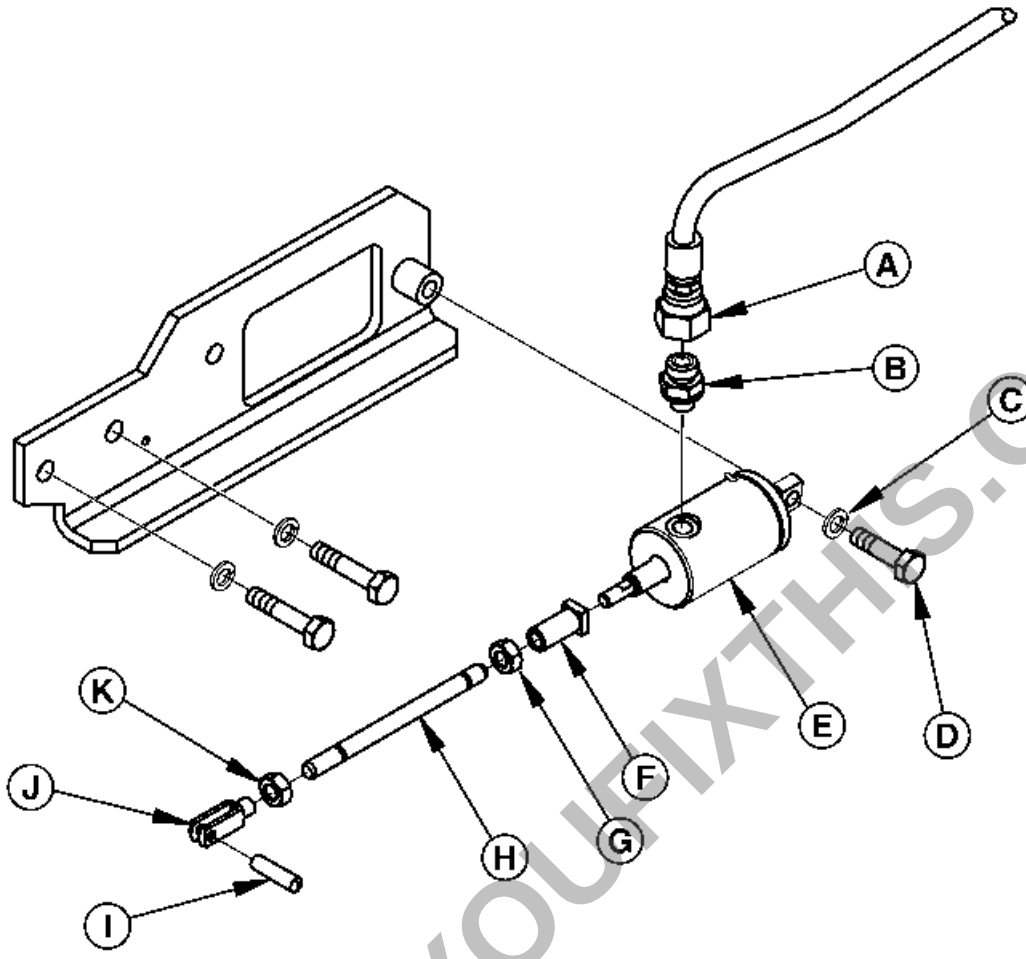
[25] - Assemble the drop box to transmission with bolts (Q) and (S).

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Remove, Inspect and Install Hydraulic PTO Clutch Cylinder Assembly

[1] -



PULX000812

.

LEGEND:

A	Hose
B	Nipple
C	Washer
D	Screw
E	Cylinder
F	Nut
G	Nut
H	Stud
I	Pin
J	Fork
K	Nut

Remove fuel tank. See Remove, Inspect and Install Fuel Tank (Standard Tractors) or Remove, Inspect and Install Fuel Tank (F and V Tractors) in Section 30.

[2] -

→NOTE:

Close opening with cap and plug.

Remove hose (A).

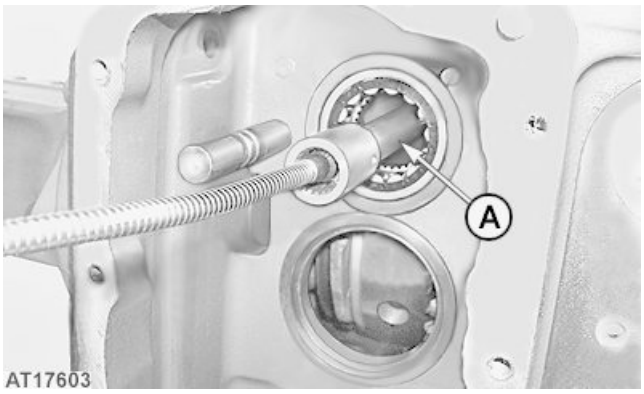
[3] - Remove screw (D) and washer (C).

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[1] - Remove the rear PTO drive shaft, see Remove Electro-Hydraulic Rear PTO Drive Shaft in this Group.

[2] -



.

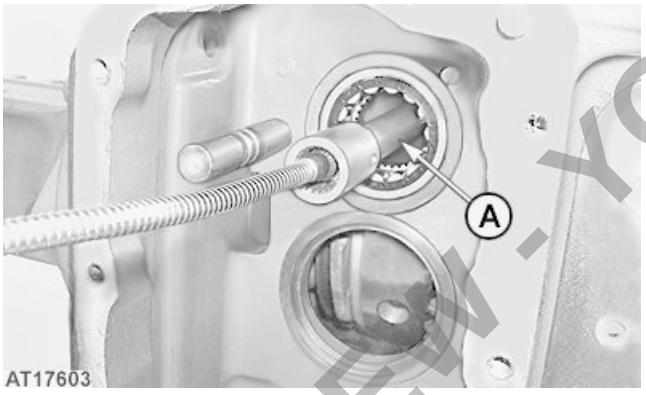
Remove PTO input shaft (A).

[3] - Inspect all parts for wear or damage and replace as necessary.

For further information, see Disassemble and Assemble Electro-Hydraulic Rear PTO Input Shaft in this Group.

Disassemble and Assemble Electro-Hydraulic Rear PTO Input Shaft

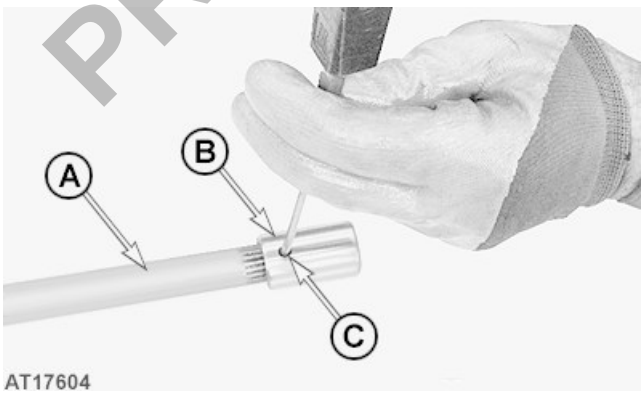
[1] -



.

Remove the rear PTO input shaft, see Remove Electro-Hydraulic Rear PTO Input Shaft in this Group.

[2] -

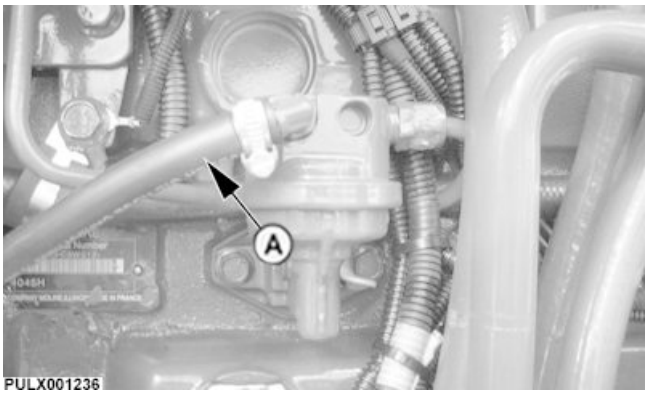


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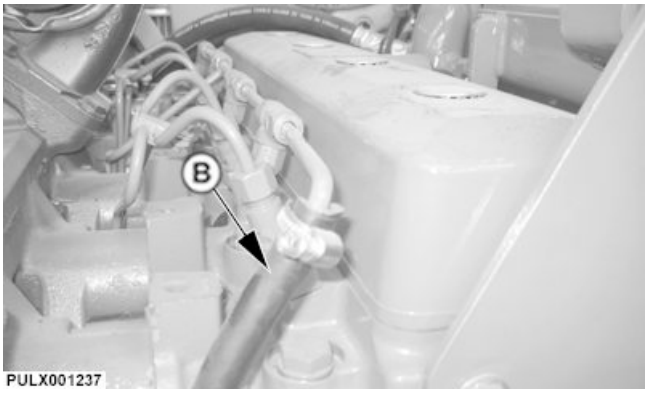
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Separate Clutch Housing from Transmission - not for 24/12 Speed Transmission



Fuel Supply Line



Fuel Return Line

[1] - Remove the cab or the open operator′s station, see Remove Operator′s Cab or Remove Open Operator′s Station in Section 90, Group 00.

[2] -

CAUTION:

Never perform work on the fuel system next to open flames or sparks. See safety note Handle Fluids Safely—Avoid Fires in Section 05.

→NOTE:

Close all openings using caps and plugs.

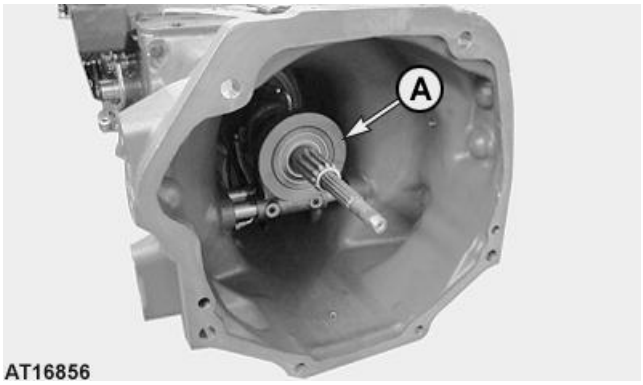
Loosen clamp and disconnect fuel supply line (A).

[3] - Loosen clamp and disconnect fuel return line (B).

[4] - Remove front axle drive shaft, if equipped. See Remove, Inspect and Install Front Axle Drive Shaftin Section 80.

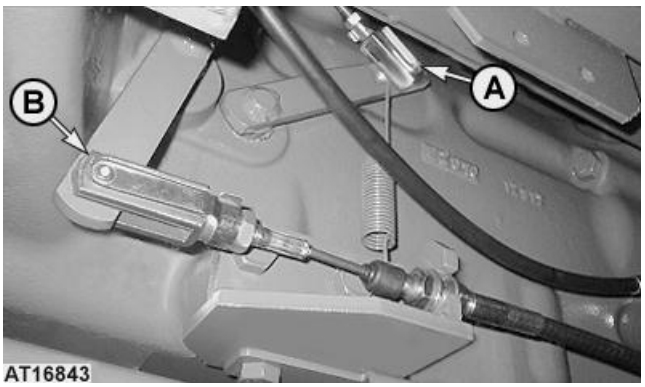
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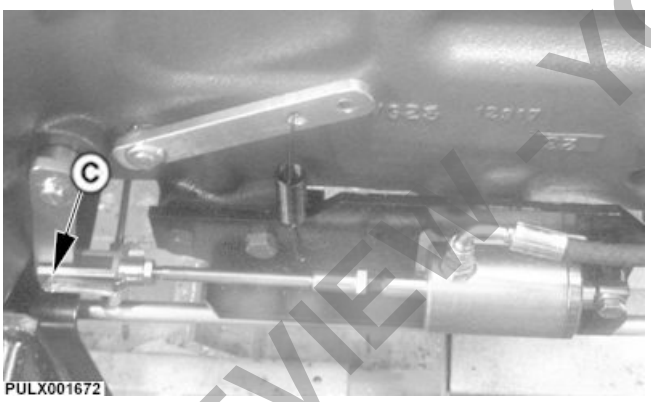


.

[16] - Connect traction clutch cable (A) and PTO clutch control cable (B).



Traction and PTO clutch rods



.

→NOTE:

For tractors equipped with servo-assisted PTO, connect PTO control lever (C).

[17] - Install Engine on Clutch Housing as described in this Section.

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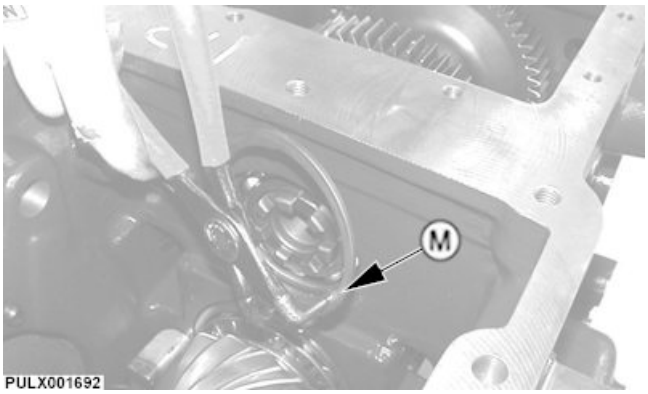
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G	Spring pin
H	Plug
I	Shaft
J	Shift fork
K	Yoke

[4] - Disassemble parts (C) to (F).

[5] - Remove parts (G) to (K).

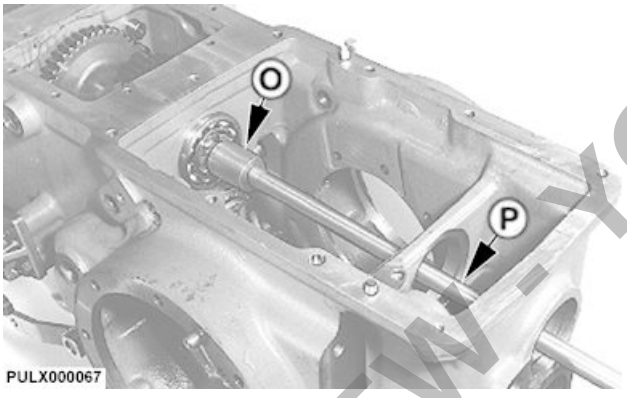
[6] -



LEGEND:

M	Snap ring
N	Range shaft flat side
O	Adapter
P	Slide hammer D01210AA

.



Adapter and slide hammer



Flat side of range shaft

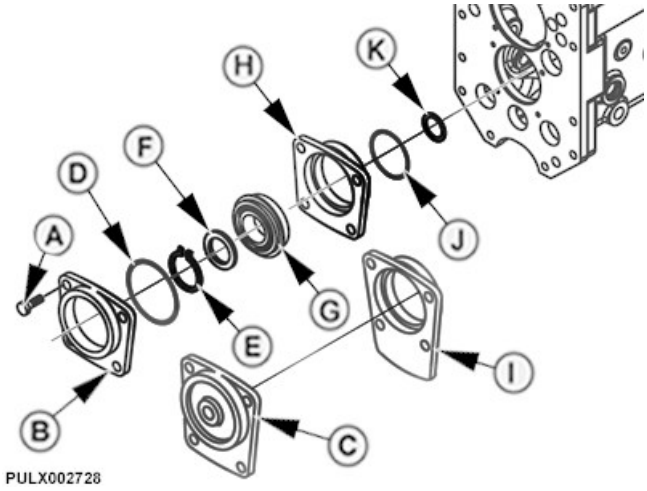
Remove snap ring (M).

[7] -

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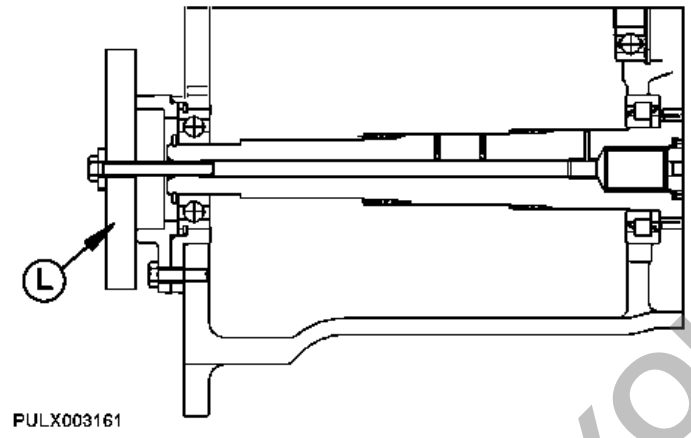
Secondary Shaft End Play Adjustment



LEGEND:

A	Cap Screw
B	Cover (24/24 and 24/12 Speed Transmission)
C	Cover (12/12 Speed Transmission)
D	O-Ring (12/12 and 24/24 Speed Transmission)
E	Snap Ring
F	Shim
G	Bearing
H	Cover (24/24 Speed Transmission)
I	Cover (12/12 and 24/12 Speed Transmission)
J	O-Ring (12/12 and 24/12 Speed Transmission)
K	Shim
L	Special Tool KJD715805

.



.

→NOTE:

Before adjusting end play on secondary shaft, pinion shaft must be installed.

[1] - Remove four cap screws (A) and remove cover (B)

[24/24 speed transmission]
[24/12 speed transmission]
or (C)
[12/12 speed transmission]
.

[2] - Remove snap ring (E) and shims (F).

[3] - Remove cover (H)

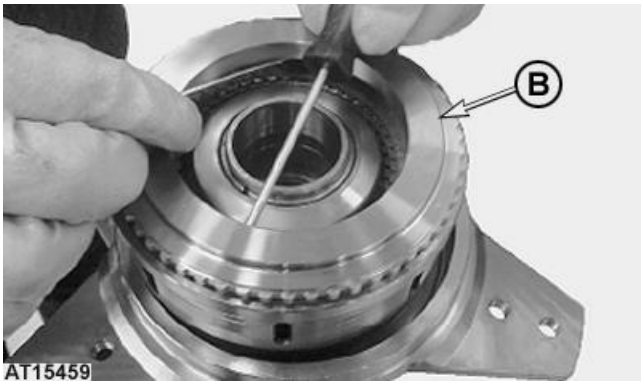
[24/24 speed transmission]
or (I)
[24/12 speed transmission]
[12/12 speed transmission]
along with bearing (G) from transmission housing.

[4] - If equipped, remove shims (K) and install shim of 0.5 mm (0.02 in.) thickness.

[5] - Install cover (H)

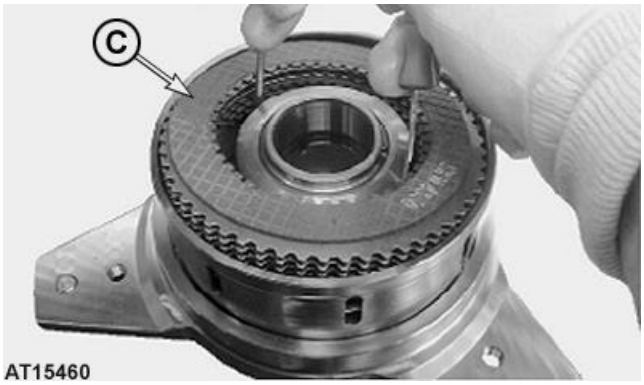
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Remove Flange

[5] - Remove friction-disk assembly (C).



Remove Friction-Disk Assembly

[6] - Place the top plate of tensioning tool KJD10494 on the studs and turn the knobs to compress the clutch spring in order to dismount the snap ring (D).



Install Top Plate

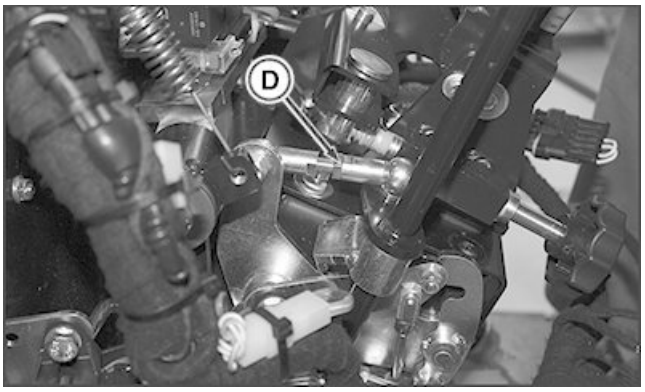


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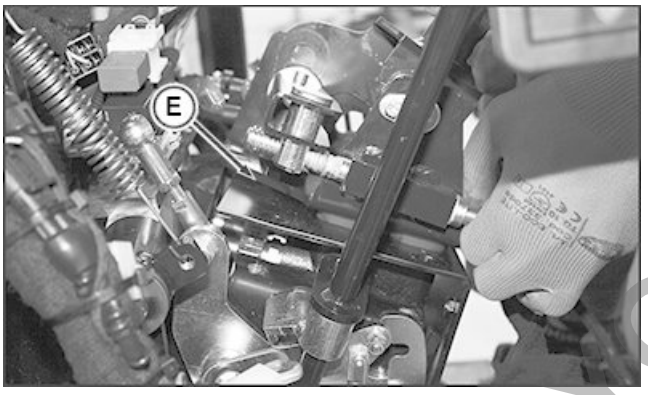
[8] - Unhook joint (D).



LEGEND:
D Joint

.

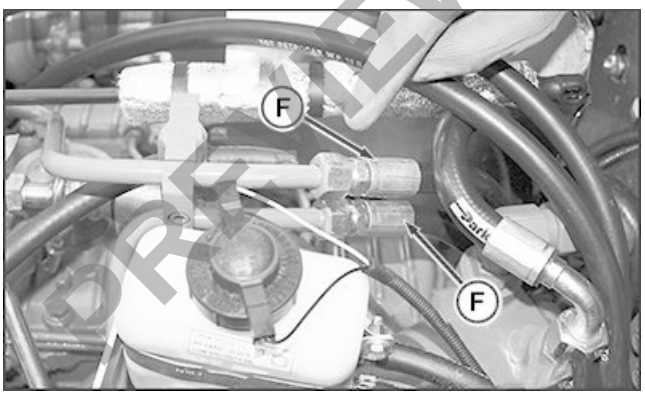
[9] - Lift Pump Assembly (E).



LEGEND:
E Pump Assembly

.

[10] - Disconnect hoses (F).



LEGEND:
F Hoses (4 used)

.

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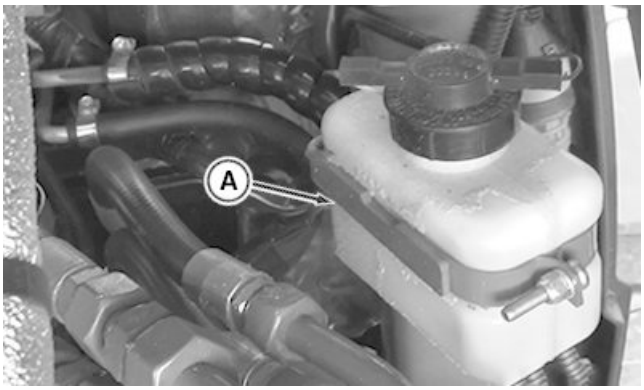
Remove and Install Brake Cylinders and Pedals (5GL)

[1] - Disconnect battery. See Remove Battery .

[2] - Remove Dashboard. See Remove Dashboard.

[3] - Remove Instrument Panel. See Remove Instrument Panel.

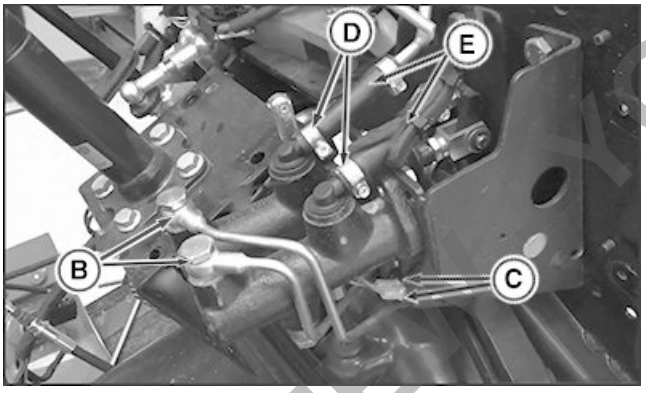
[4] - Drain brake oil from the reservoir (A).



LEGEND:
A Reservoir

.

[5] - Remove hollow screws (B) from both cylinders.



LEGEND:
B Hollow screws (2 used)
C Micro-switches (2 used)
D Clamps (2 used)
E Brake cylinder hoses (2 used)

.

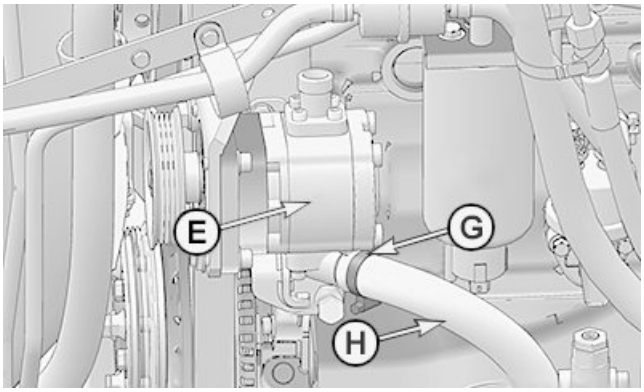
[6] - Disconnect micro-switches (C).

[7] - Remove the clamps (D) and disconnect brake cylinder hoses (E).

[8] - Remove screw (F) and the spacer (G).

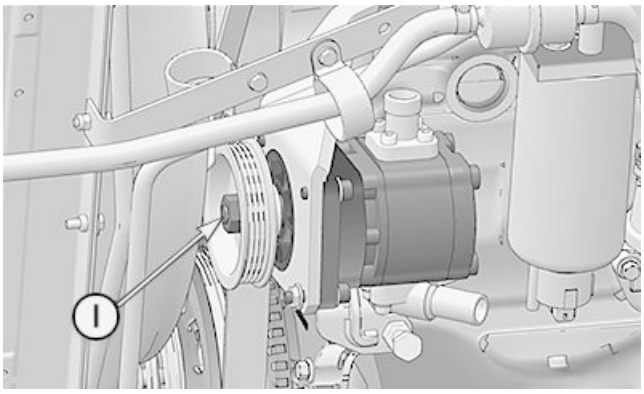
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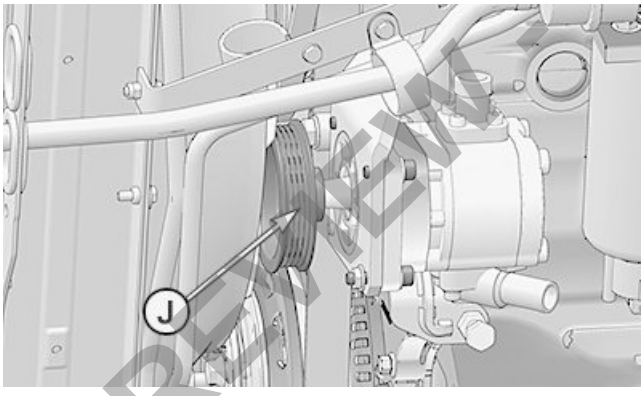
.

[5] - Loosen and remove nut (I).



.

[6] - Remove pulley (J).



.

[7] - Remove fittings (K) (4 used).

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L	Seal
M	Cap screw (8 used)
N	Cylinder
O	O-ring (8 used)
P	Washer (8 used)
Q	Spring pin
R	Rockshaft
S	Seal (2 used)
T	Washer (2 used)
U	Lift arm (2 used)
V	Snap ring (2 used)
W	Copper washer
X	Plug
Y	Bushing (2 used)

[1] - Remove rockshaft assembly, see Remove and Install Rockshaft Assembly in this Group.

[2] - Remove cap screws (M) to remove cylinder (N), piston (K), seal (L), O-ring (O), and washer (P).

[3] -

→NOTE:

Make an alignment mark on lift arms (U) and rockshaft (R) prior to removal.

Remove snap rings (V) to remove lift arms (U), washers (T), and seal (S).

[4] - Remove dowel (H) and slide out rockshaft (R) from right-hand side.

[5] - Remove parts (F), (Q), (I), and (J).

[6] - Remove seals (L).

[7] -

→NOTE:

Bushings (A), (B), (D), (E) and (Y) are press fit. Remove bushings only if replacement is necessary.

Remove bushings (A), (B), (D), (E), and (Y) using slide hammer puller.

[8] - Inspect all parts for wear or damage. Replace as necessary.

[9] -

IMPORTANT:

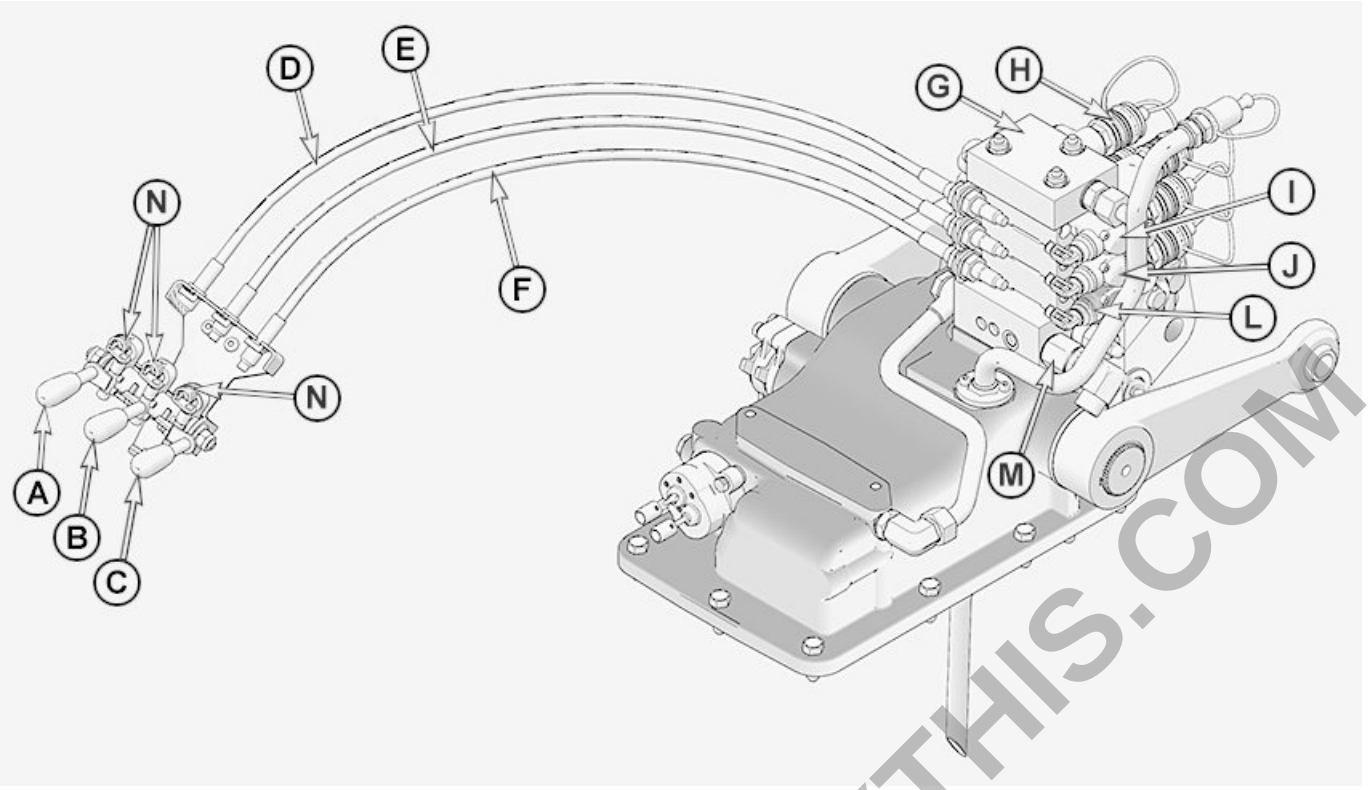
Replace seals and O-rings. Damaged or used seals and O-rings will leak.

Install bushings (A), (B), (D), (E), (Y), and seal (S) using a bearing, bushing and seal driver set.

[10] - Apply multipurpose grease to lips of seals.

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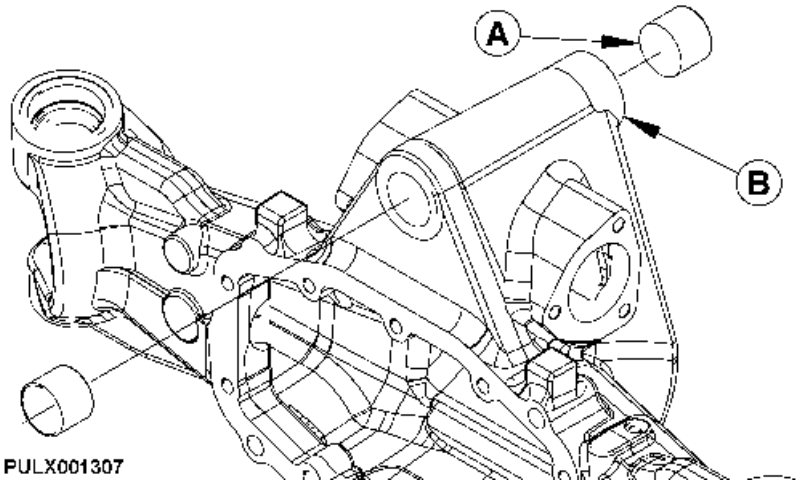
3 SCVs

LEGEND:

A	3rd SCV lever
B	2nd SCV lever
C	1st SCV lever
D	3rd SCV Bowden cable
E	2nd SCV Bowden cable
F	1st SCV Bowden cable
G	End plate
H	Coupler (6 used)
I	3rd SCV
J	2nd SCV
L	1st SCV
M	Base block
N	Lever lock

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Four-Wheel Drive F and V Tractors

[1] - Inspect pivot pin and bushings for wear or damage. Replace if necessary.

[2] - Two-Wheel Drive Standard and HighCrop Tractors:

Remove seal rings (C) from axle pivot (B).

[3] - Remove bushings (A) from axle pivot (B) using a blind hole puller set.

[4] -

→NOTE:

Make sure lubrication holes in bushings (A) align with lubrication holes in axle pivot (B).

Install new bushings (A) using special tool KJD715665

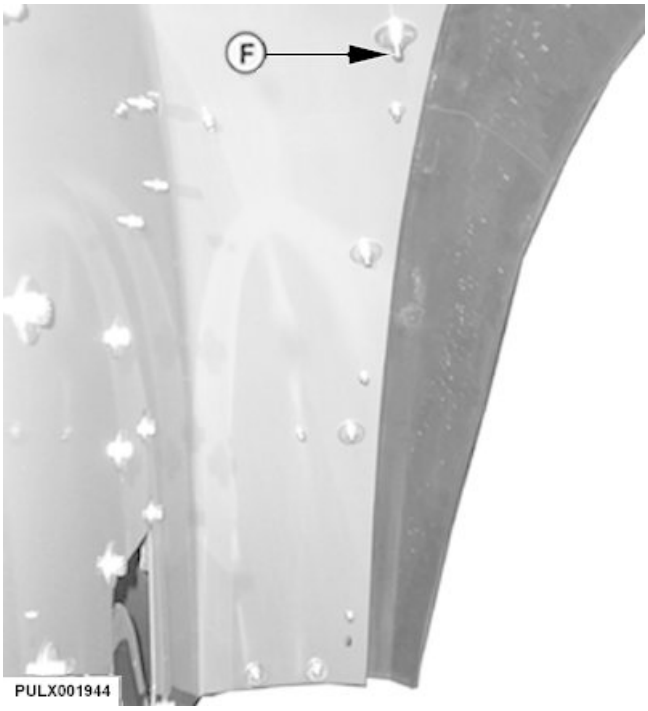
[For two-wheel drive standard and HighCrop tractors.]
or KJD716305
[For CA128971 axle on two-wheel drive F and V tractors.]
or KJD10447
[For CA146262 axle on two-wheel drive tractors and four-wheel drive F and V tractors.]
and hammer.

[5] - Two-Wheel Drive Standard and HighCrop Tractors:

Install seal rings (C) using special tool KJD716106 on axle pivot (B).

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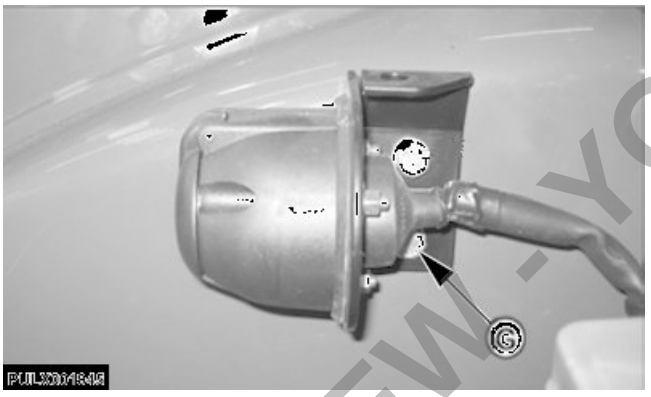
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.

Remove the screws (F) and remove the right-hand side fender.

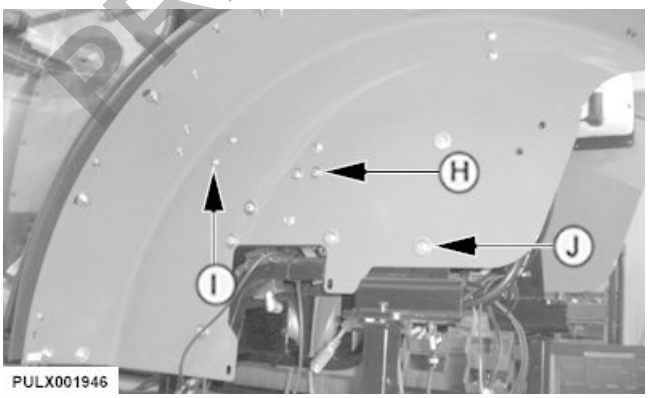
[9] -



.

Remove 7-pin connector fixing screws (G).

[10] -



.

Remove park brake fixing screws (H) and PTO fixing screws (I).

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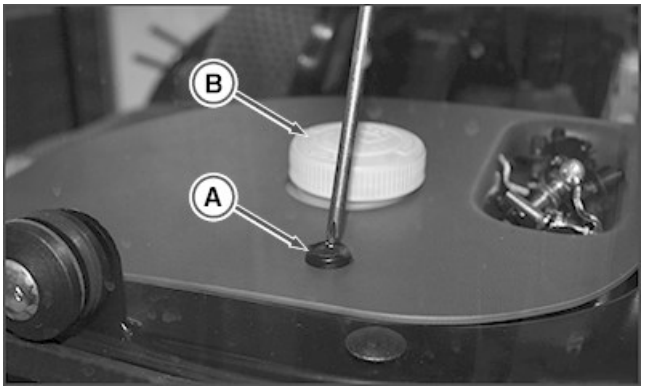
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LEGEND:

A	Screws (3 used)
B	Plug

.



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[3] - Remove PTO knob (C).



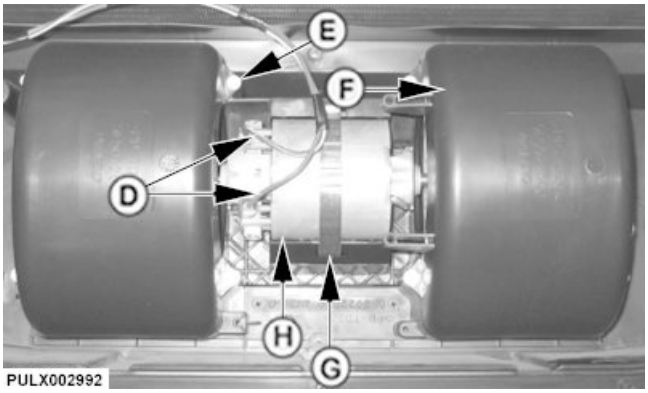
LEGEND:

C	PTO knob

.

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.

Disconnect battery. See Remove and Install Battery (Standard Tractors) or Remove and Install Battery (F and V Tractors) in Section 40.

[2] - Remove caps (A).

[3] - Remove screws (B) and remove the green cover.

[4] - Remove screws (C) and remove the cover.

[5] - Disconnect wires (D) from blower motor (H).

[6] - Remove screws (E) and remove fan covers (F).

[7] - Remove fixing clip (G) from blower motor (H).

[8] - Remove blower motor (H).

[9] - Inspect all parts for wear or damage. Replace as necessary.

[10] - Install all parts in reverse order.

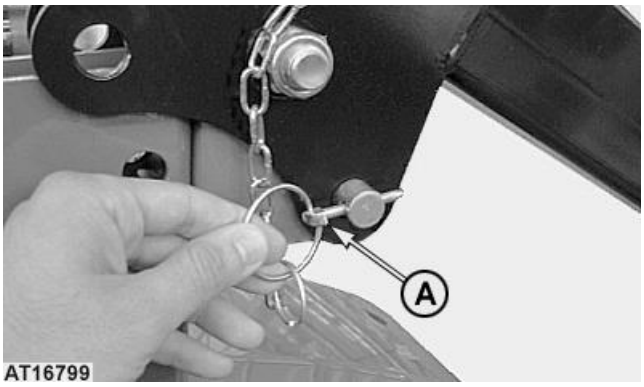
[11] - Perform an operational check.

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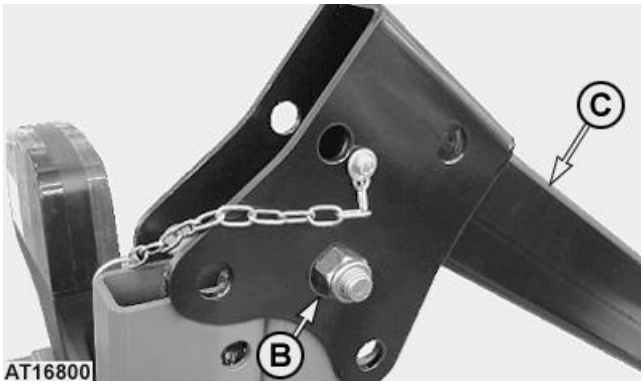
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[5] - Remove screws (F) and bracket (G) with beacon light.

[6] - Remove quick-lock pin (A) on both sides to remove pin and fold down the 2-post ROPS.



Remove quick-lock pin



Remove 2-post ROPS

[7] - Remove nuts and screws (B) on both sides and remove 2-post ROPS (C).

[8] - Inspect all parts for damage. Replace as necessary.

[9] - Install all parts in reverse order.

[10] - Tighten all nuts and screws to specified torque.

Item	Measurement	Specification
Nuts and Screws, 2-Post ROPS to Open Operator′s Station	Torque	96 N•m
		71 lb-ft

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