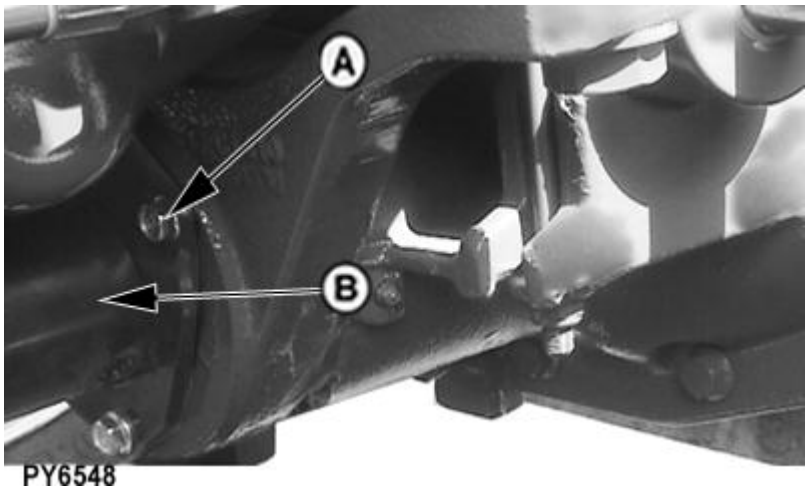
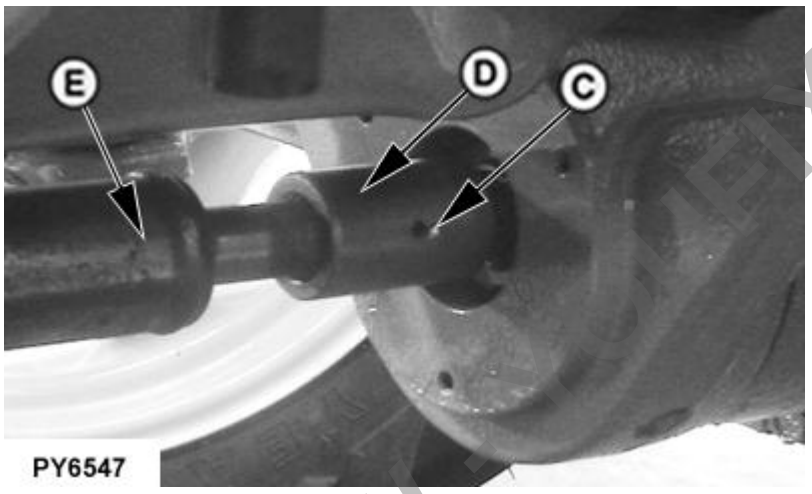
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[22] - If equipped with MFWD , remove three cap screws (A) and pull cover (B) in backward direction.



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LEGEND:

A	Cap Screw
B	Cover
C	Cotter Pin
D	Coupler
E	Shaft

[23] - Remove cotter pin (C) , coupler (D) and shaft (E).

[24] - Install lifting brackets such as JDG19 or JT01748 Lifting Brackets.

[25] - Install jack stand under transmission.

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Install Cylinder Liners

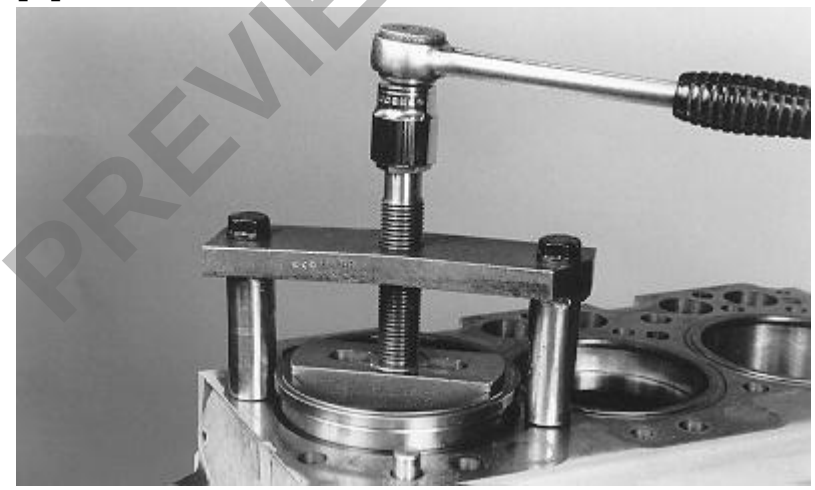


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[1] - Blunt the sharp edge on liners with a honing stone or emery cloth.

[2] - Slide liner together with shim (when needed) and packing into its bore in cylinder block.

[3] -



Installation with KCD10001

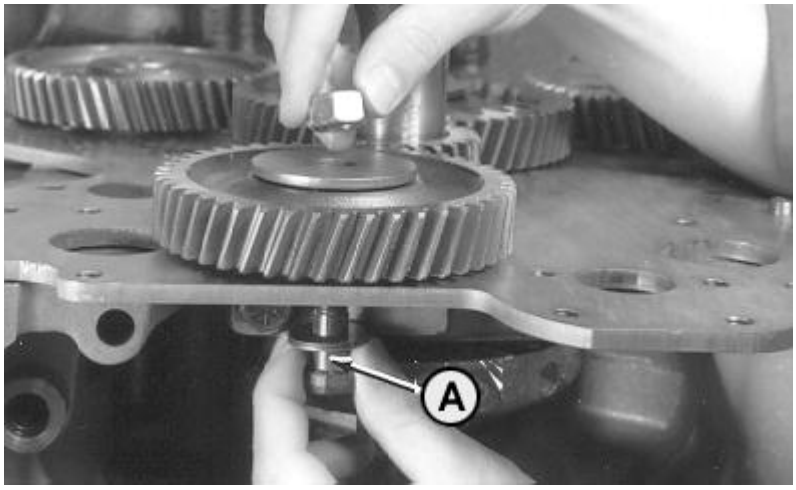
Seat liners using KCD10001 special tool.

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[8] - Recheck gear timing to make sure it is correct.

Install Lower Timing Gear Train



Install New Bolt with Washer

LEGEND:

A	Washer

[1] - Install oil pump and lower idler gear.

[2] - Install new bolt with washer (A) from oil pump side. Install thrust washer, with sharp edge toward timing cover, and new nut then tighten to specification.

Item	Measurement	Specification
Lower Idler Gear Nut	Torque	110 N˙m (80 lb-ft).

[3] - Install oil pump gear on pump shaft, tighten hex. nut to specification and secure with three center punch marks.

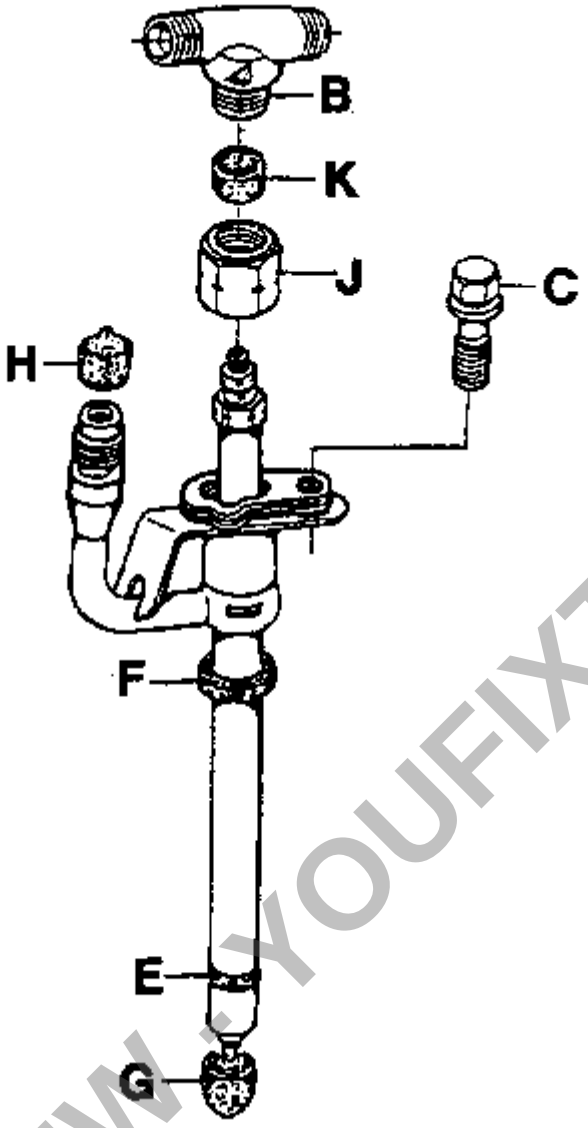
Item	Measurement	Specification
Oil Pump Drive Gear Nut	Torque	75 N˙m (55 lb-ft)

Install Oil Deflector

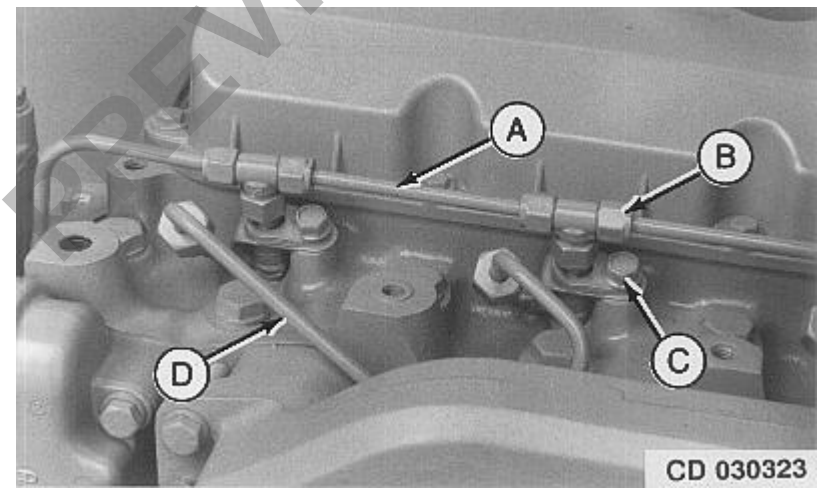
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Install Fuel Injection Nozzle



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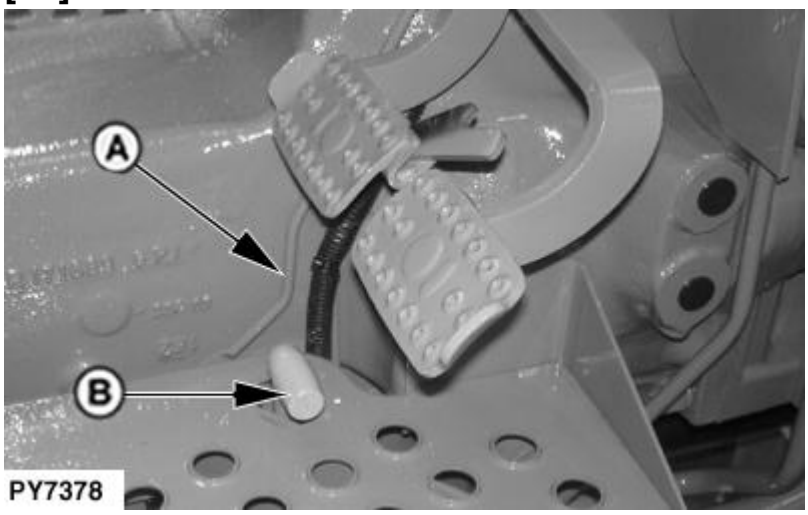


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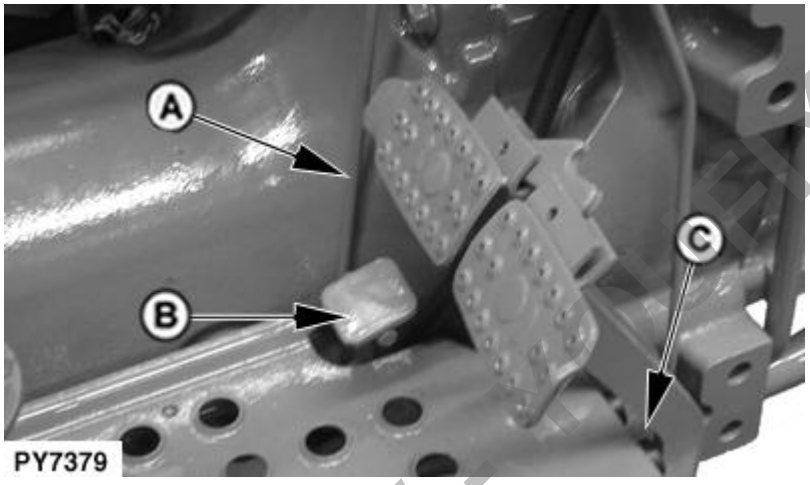
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[11] -



´S´ Transmission



´AA´ Transmission

LEGEND:

A	Throttle Linkage Rod
B	Foot Throttle
C	Park Brake Spring

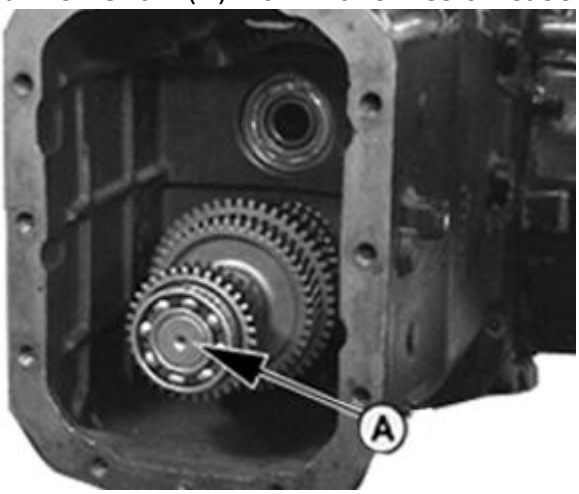
Connect throttle linkage rod (A) to foot throttle (B).

[12] - Connect park brake spring (C) for ´**AA**´ **transmission** .

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[14] - Remove driven Shaft (A) from transmission case.



PY5882

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PY5883

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LEGEND:

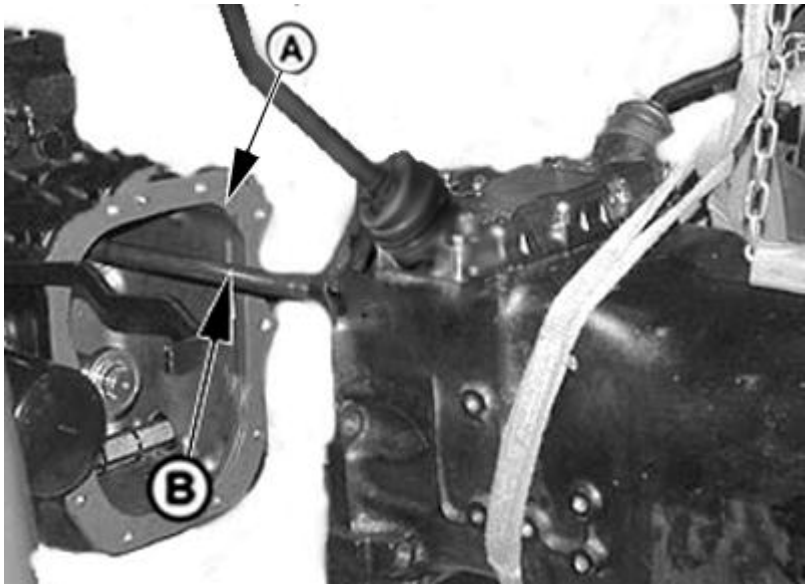
A	Driven Shaft

[15] - Disassemble and inspect parts as necessary.

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Install Transmission



Install Transmission

LEGEND:

A	Gasket
B	PTO Drive Shaft

IMPORTANT:

Make sure differential and transmission are level during installation of transmission to prevent damage.

[1] - Clean mating surfaces of differential and transmission housings.

[2] - Apply LOCTITE ™ 515 on mating surface of differential and transmission housing

[3] - Install new gasket (A) on differential housing.

→NOTE:

PTO drive shaft (B) must be installed in transmission as shown, to allow proper installation of transmission. Apply oil to seal and shaft seal landing prior to installation.

[4] - Slowly align transmission to differential housing.

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[3] -

→NOTE:

Close all openings using caps and plugs.

Hydraulic line (B) is on left side only.

Disconnect lines (A and B).

[4] - Attach lifting chains or strap to final drive housing.

[5] - Remove twelve cap screws (C).

[6] - Remove final drive assembly.

→NOTE:

To inspect or replace final drive pinion shaft, brakes must be removed.

[7] - Make repairs as necessary.

[8] - Clean mating surfaces of final drive and differential casings using Clean and Cure Primer. Apply a coat of Flexible Form-In-Place Gasket or an equivalent to mating surfaces.

Number	Name	Use
• 515 Loctite ™ (loctite)	Flexible Form-In-Place Gasket	Apply between mating surfaces of final drive and differential casings.

[9] - Install final drive assembly. Tighten cap screws to specification.

Item	Measurement	Specification
Final Drive Assembly Cap Screw	Torque	136 N·m

IMPORTANT:

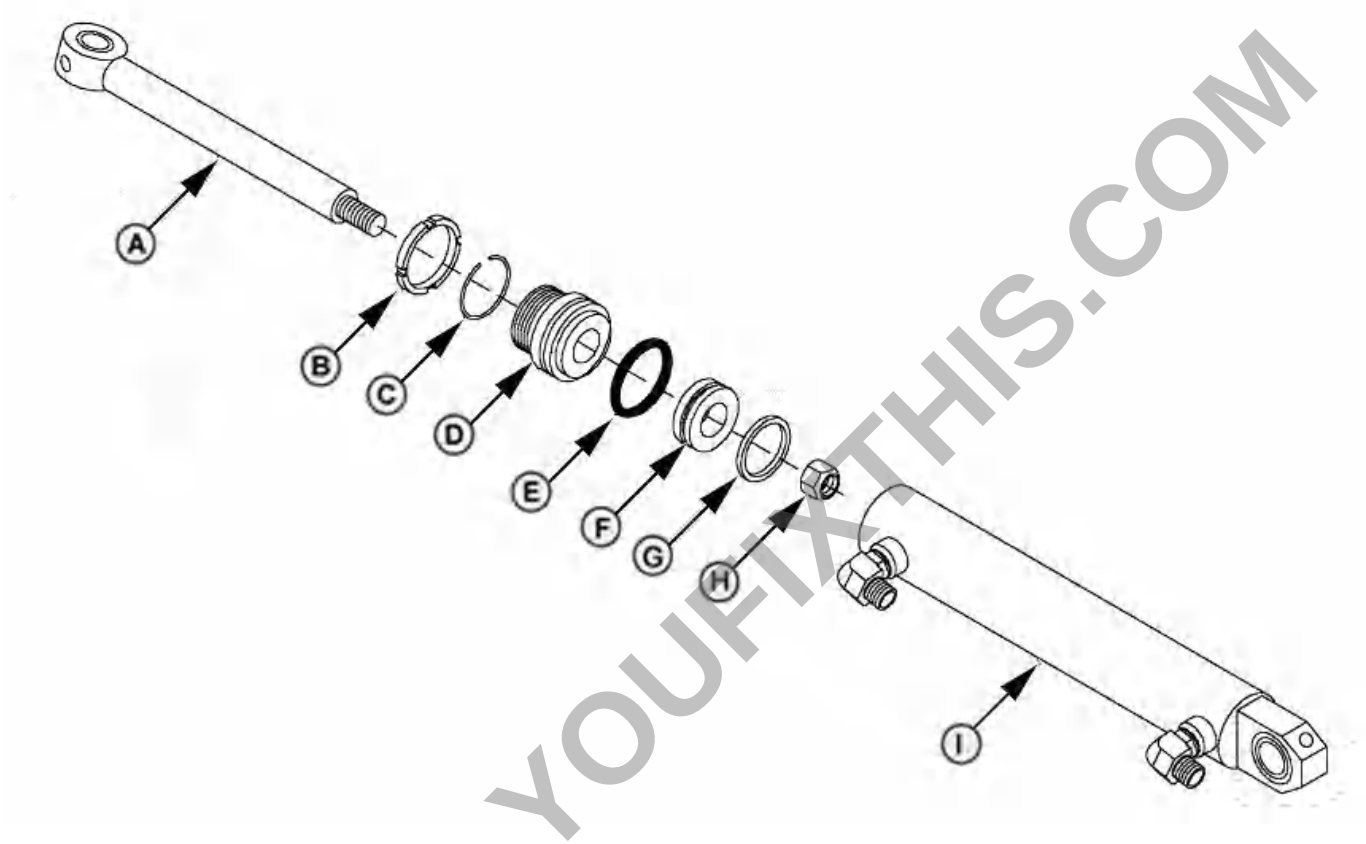
Always use new O-rings. Damaged or used O-rings will leak.

[10] - Install new O-rings and connect hydraulic lines (B and A).

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Disassemble, Inspect and Assemble Steering Cylinder (Fixed Front Axle)

[1] -



Steering Cylinder

LEGEND:

A	Rod
B	Rod Guide
C	Snap Ring
D	Piston
E	Piston Seal
F	Plunger
G	Plunger Seal
H	Lock Nut
I	Cylinder Barrel

Remove steering cylinder. (See procedure in this group.)

[2] -

→NOTE:

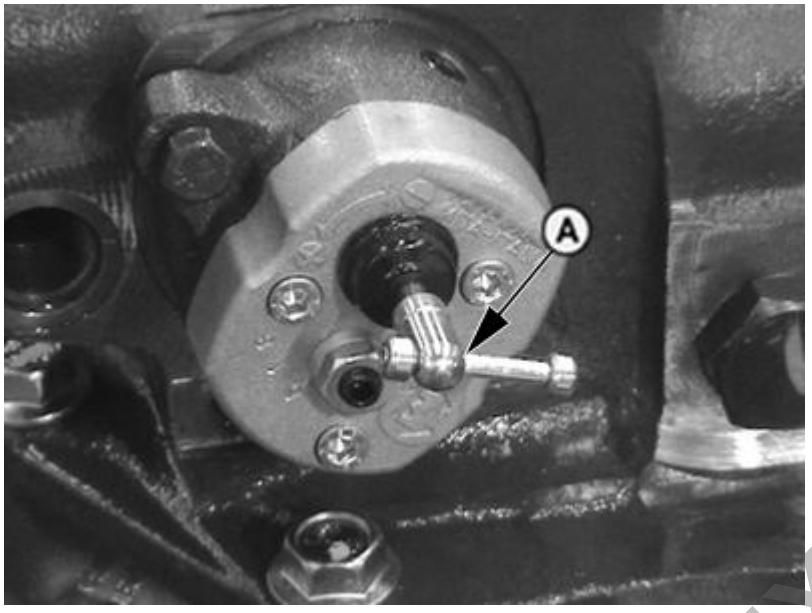
Place steering cylinder assembly in a soft-jawed vice to aid during disassembly and assembly.

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Remove, Inspect and Install Rate-of-Drop Valve

[1] -



Remove Rate-of-Drop-valve

LEGEND:

A	Rate-of-Drop Valve

Open rate-of-drop valve and lower rockshaft arms completely.

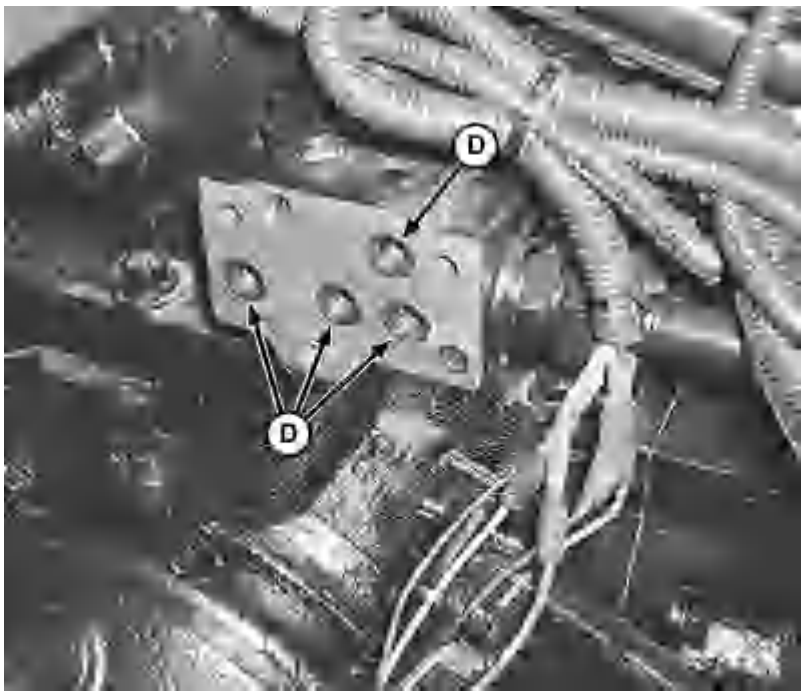
[2] - Remove seat and support.

[3] - Remove three socket head screws. Firmly grab tee handle and pull straight out, removing rate-of-drop valve (A) from rockshaft control valve.

[4] -

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Single Selective Control Valve

LEGEND:

A	Cap Screw and Washer
B	End Cap
C	Single SCV
D	O-Ring (4 used)

Remove three cap screws and washers (A). Discard three cap screws (A) only.

[9] - Remove end cap (B) and lay single SCV (C) aside.

[10] - Inspect O-rings (D) on inlet housing of rockshaft case. Replace if necessary.

[11] -

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Remove and Install Seat and Support (For 5103, 5203, 5303, 5403, 5045E, 5055E, 5065E and 5075E Tractors)

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- Move control lever (A) forward and rearward.
- Move control lever (B) forward and rearward.

NORMAL:

- Moving control lever (A) forward and rearward should extend and retract a cylinder attached to outlets (D).
- Moving control lever (B) forward and rearward should extend and retract a cylinder attached to outlets (C).
- Lever(B) should return to Park position (centered) position when released. Lever (A) will not return to Park position when in float position (lever fully forward).

IF NOT NORMAL:

- See diagnosis, tests and adjustments Section 270 for hydraulic diagnosis, tests and adjustments.

Miscellaneous Checks

CONDITIONS:

- Key switch in OFF position.
- Range shift lever in Park position.
- Park brake engaged.

NORMAL:

- Tires in good condition, properly inflated.
- Seat and safety belt in good condition.
- Directional lights functional.
- ROPS securely fastened.
- Wheel cap screws and nuts tight.
- 3-point hitch in good condition.
- Equipment fluid levels at proper fill marks.

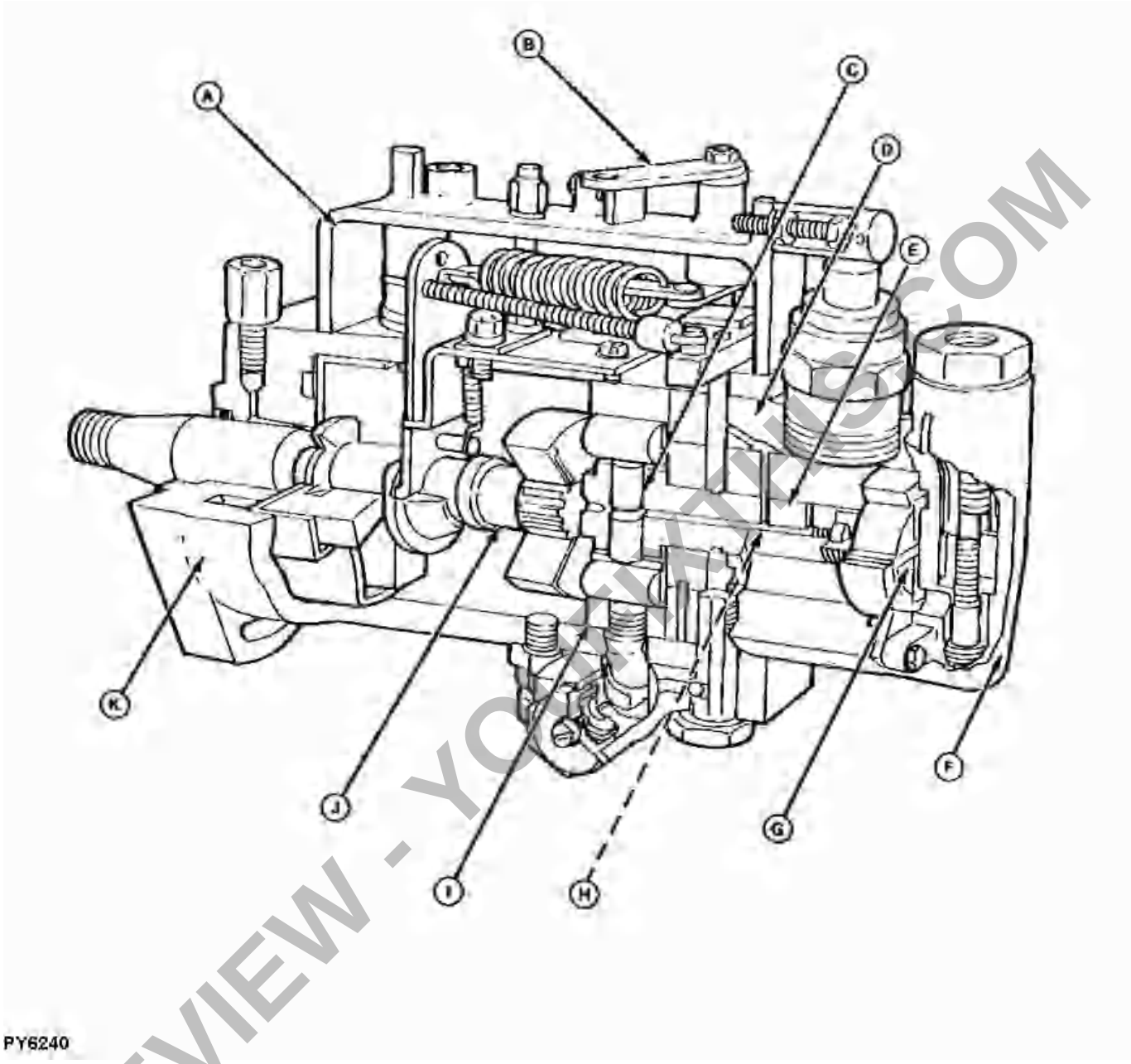
IF NOT NORMAL:

- Replace or tighten hardware.
- Repair, replace, or adjust as necessary.

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Fuel Injection Pump Operation (Rotary Pump)



In-Line Fuel Injection Pump Operation

LEGEND:

A	Governor Housing
B	Control Lever
C	High Pressure Plunger
D	Pump Head
E	Distributor Rotor
F	End Plate
G	Transfer Pump
H	Delivery Valve
I	Internal Cam Ring Pump
J	Drive Shaft
K	Pump Housing

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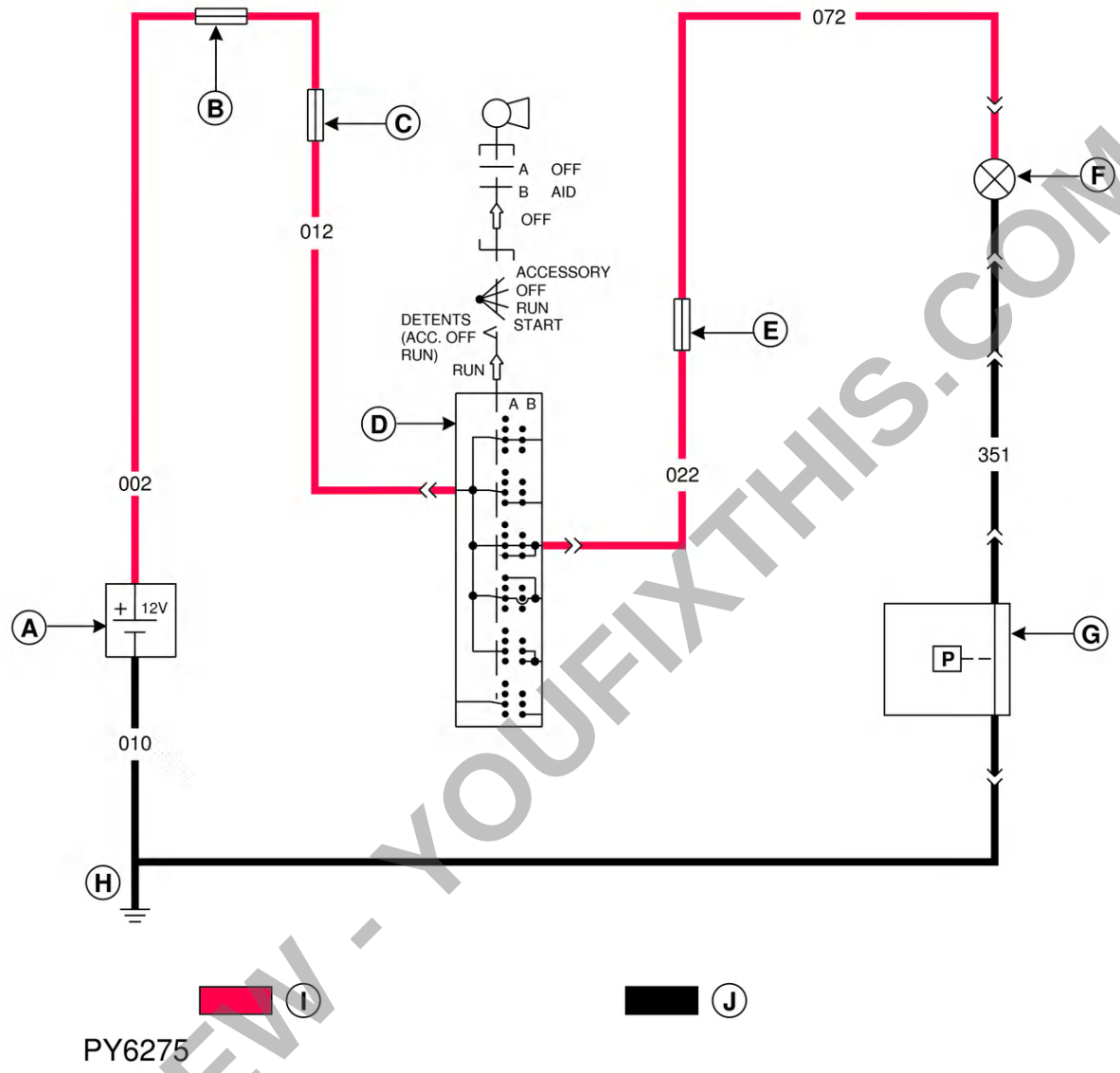
- Fuse Block
- Relays
- Starting Systems
    - Normal Operation
    - Bypass Operation
- Charging System
- Lighting System
    - Turn Signals
    - Warning Lights
    - Tail Light
    - Headlights
    - Instrument Lights
    - 7-Pin Outlet Trailer Connector
- Instrument Panel System
    - Fuel Gauge
    - Temperature Gauge
    - Tachometer/Hourmeter
- PTO Warning System
- Engine Oil Pressure Switch
- Air Filter Restriction Indicator
- Optional Equipment
    - Horn
    - Rear Work Light

Fuse Block and Fuses—Type I

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Air Filter Restriction Indicator Operation—Type I



Air Filter Restriction Indicator Operation

LEGEND:

A	Battery
B	Fuse Link
C	30-amp Fuse
D	Key Switch
E	10-amp Fuse
F	Air Filter Restriction Indicator
G	Air Filter Restriction Switch
H	Ground
I	Power Circuit
J	Ground Circuit

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Test Location	Normal	If Not Normal
16. Terminal 5 of trailer connector.	Battery voltage (pulsing).	Check for corroded connections or break in splice or wire between turn signal terminal 4 and trailer connector terminal 5.

CONDITIONS:

- Move light switch to H_1 high beam position.

Test Location	Normal	If Not Normal
17. Terminal 6 of trailer connector.	Battery voltage.	Check for corroded connections or break in splice or wire between fuse block and trailer connector terminal 6.

CONDITIONS:

- Move light switch to floodlight position.

Test Location	Normal	If Not Normal
18. Terminal 2 of trailer connector.	Battery voltage.	Check for corroded connections or break in splice or wire between fuse block and trailer connector terminal 2.

CONDITIONS:

- Meter on 1X ohms scale.

Test Location	Normal	If Not Normal
19. Terminal 1 of trailer connector.	Maximum 0.5 ohm resistance.	Check for corroded connections or break in wire between trailer connector terminal 1 and connector mounting hardware. Check battery-to-frame ground cable and connections.

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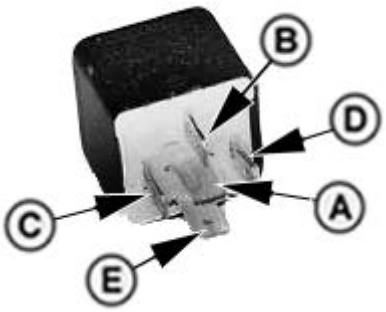
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Test Location	Normal	If Not Normal
11. Terminal warning on back of light switch.	Battery voltage.	Check for failed switch. If switch is good, check for corroded or loose terminals.
12. Bottom terminal of fuse, F11.	Battery voltage.	Check for corroded connections or break in splice or wire between fuse link and fuse F11.
13. Bottom terminal of fuse, F11.	Battery voltage.	Check for failed fuse, F11. If fuse is good, check for corroded or loose terminals.
14. Terminal A of MARCUREX flasher.	Battery voltage.	Check for corroded connections or break in splice or wire between flasher and fuse F11.
15. Terminal H of MARCUREX flasher.	Battery voltage.	Check for flasher. If flasher is good, check for corroded or loose terminals.
16. Terminal D of MARCUREX flasher.	Battery voltage.	Check for flasher. If flasher is good, check for corroded or loose terminals.
17. Terminal C of MARCUREX flasher.	Battery voltage.	Check for flasher. If flasher is good, check for corroded or loose terminals.
18. Bottom terminal of fuse, F6.	Battery voltage.	Check for corroded connections or break in splice or wire between fuse link and fuse F6.
19. Bottom terminal of fuse, F6.	Battery voltage.	Check for failed fuse, F6. If fuse is good, check for corroded or loose terminals.
20. Terminal 86 of right tail/turn relay.	Battery voltage.	Check for corroded connections or break in splice or wire between flasher and right tail/turn relay.
21. Terminal 85 of right tail/turn relay.	Less than 0.2 volt.	Check continuity to ground of black wire. If black wires are good to ground, test flasher relay.
22. Terminal 87 of right tail/turn relay.	Battery voltage.	Check for corroded connections or break in splice or wire between fuse F6 and right tail/turn relay.
23. Terminal 30 of right tail/turn relay.	Battery voltage.	Test relay. If relay is good, check for corroded or loose terminals.
24. Bottom terminal of right warning light.	Battery voltage.	Check for corroded connections or break in splice or wire between right warning light and right tail/turn relay.
25. Top terminal of right warning light.	Battery voltage.	Check for failed light. If light is good check for corroded connections or break in splice or wire.
26. Terminal 86 of right tail/turn relay.	Battery voltage.	Check for corroded connections or break in splice or wire between flasher and right tail/turn relay.
27. Terminal 85 of right tail/turn relay.	Less than 0.2 volt.	Check continuity to ground of black wire. If black wires are good to ground, test flasher relay.
28. Terminal 87 of right tail/turn relay.	Battery voltage.	Check for corroded connections or break in splice or wire between fuse F6 and right tail/turn relay.
29. Terminal 30 of right tail/turn relay.	Battery voltage.	Test relay. If relay is good, check for corroded or loose terminals.
30. Bottom terminal of right warning light.	Battery voltage.	Check for corroded connections or break in splice or wire between right warning light and right tail/turn relay.
31. Top terminal of right warning light.	Battery voltage.	Check for failed light. If light is good check for corroded connections or break in splice or wire.

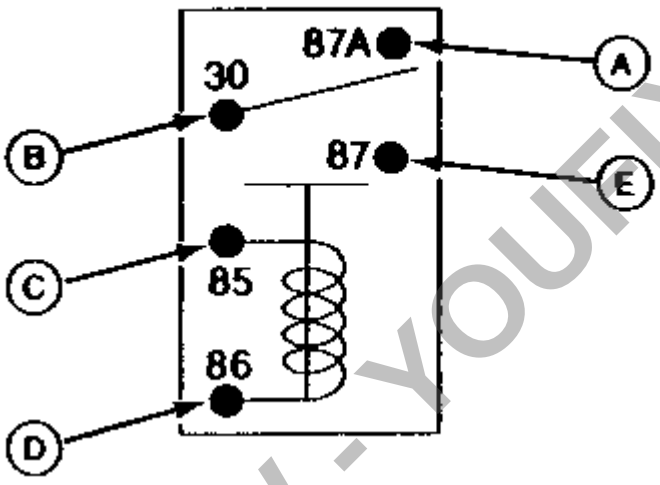
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Plug-In Relay Test



Slide LV061



Slide LV079AE

LEGEND:

A	Terminal 87A
B	Terminal 30
C	Terminal 85
D	Terminal 86
E	Terminal 87

REASON: To check operation of modular relay.

EQUIPMENT:

- Ohmmeter or continuity tester

PROCEDURE:

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EQUIPMENT:

- Ohmmeter or continuity tester

PROCEDURE:

[1] - Remove relay from connector.

[2] - Use ohmmeter or continuity tester to check continuity between relay terminals 87A and 30 (A and B); 85 and 86 (C and D).

[3] - Check for no continuity between terminals 30 and 87 (B and E).

[4] - Connect a jumper wire from battery positive (+) post to relay terminal 85. Connect a jumper wire from relay terminal 86 to ground (—). Continuity should now exist between terminals 30 and 87; no continuity between 30 and 87A.

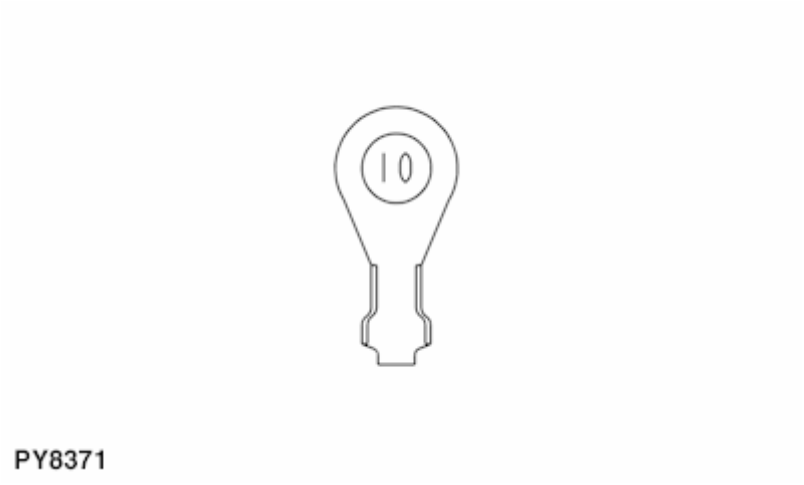
RESULTS:

If continuity is not correct, replace relay.

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X1 - 1-Pin Connector for Ground



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Component Information for X1	
Number of Pins	1
Connection Point	Tractor body frame

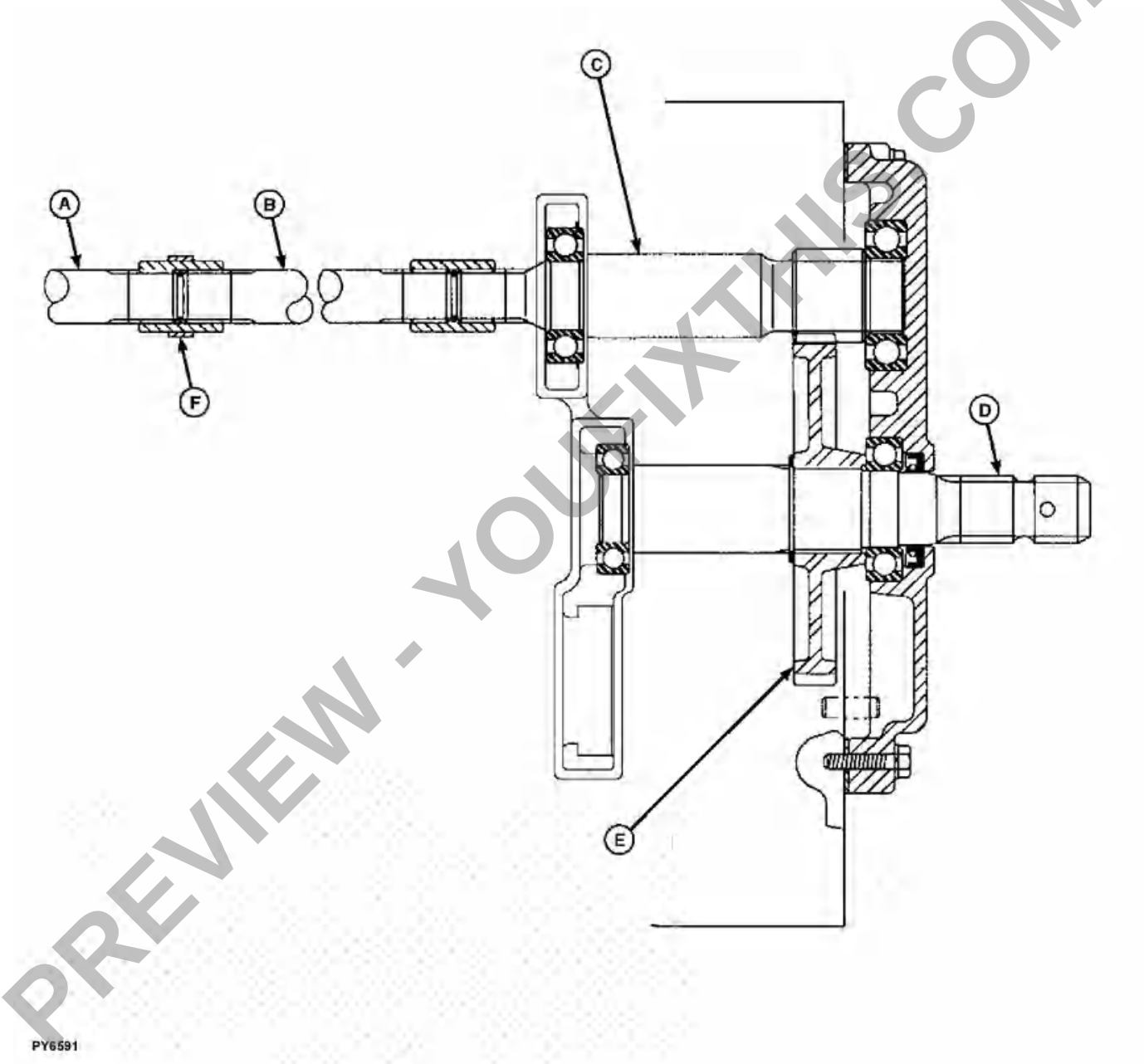
Plug Layout and Wire Connections for X1			
Sr. No.	**Circuit**	**Color**	**Gauge**
1	010A	Black	4.0

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F Final Drive Ring Gear
G Final Drive Pinion Shaft
H Differential Case
I Differential Lock Collar
J Planetary gear

Rear PTO Components



Rear PTO

LEGEND:

A PTO Shaft
B Intermediate Shaft
C PTO Pinion Shaft
D PTO Output Shaft
E PTO Drive Gear

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PTO Hard to Engage

CONDITIONS:

- Adjustments in this group.

Test Location	Normal	If Not Normal
1. PTO lever linkage.	Operates freely with no binding. Linkage adjusted properly.	Adjust linkage.
2. PTO gears.	No wear or damage to gear teeth or splines.	Replace worn or damaged components.

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LEGEND:

A	Spool
B	Spool Step Passage to Differential Valve
C	Differential Valve Port
D	Safety Valve
E	Inlet from Pump
F	Differential Valve
G	Cylinder Passage
H	Differential Valve Spring
I	Discharge Valve
J	Cylinder
K	Cylinder Passage
L	Check Valve
M	Oil from Pump
N	Passage to Spool Step

FUNCTION:

Controls oil flow to the rockshaft cylinder with rockshaft control lever in the raised position.

MAJOR COMPONENTS:

- Rockshaft Cylinder
- Control Spool
- Discharge Valve
- Surge (Safety) Relief Valve

THEORY OF OPERATION:

With the rockshaft control lever in the raise position the rockshaft control valve will direct pressure oil to the rockshaft cylinder (J) to fully raise the rockshaft lift arms.

When the rockshaft control lever is moved rearward, linkage within the rockshaft pushes on control spool (A). Pressure oil from the inlet port (E) opens check valve (L) to deliver oil to the rockshaft cylinder (J).

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