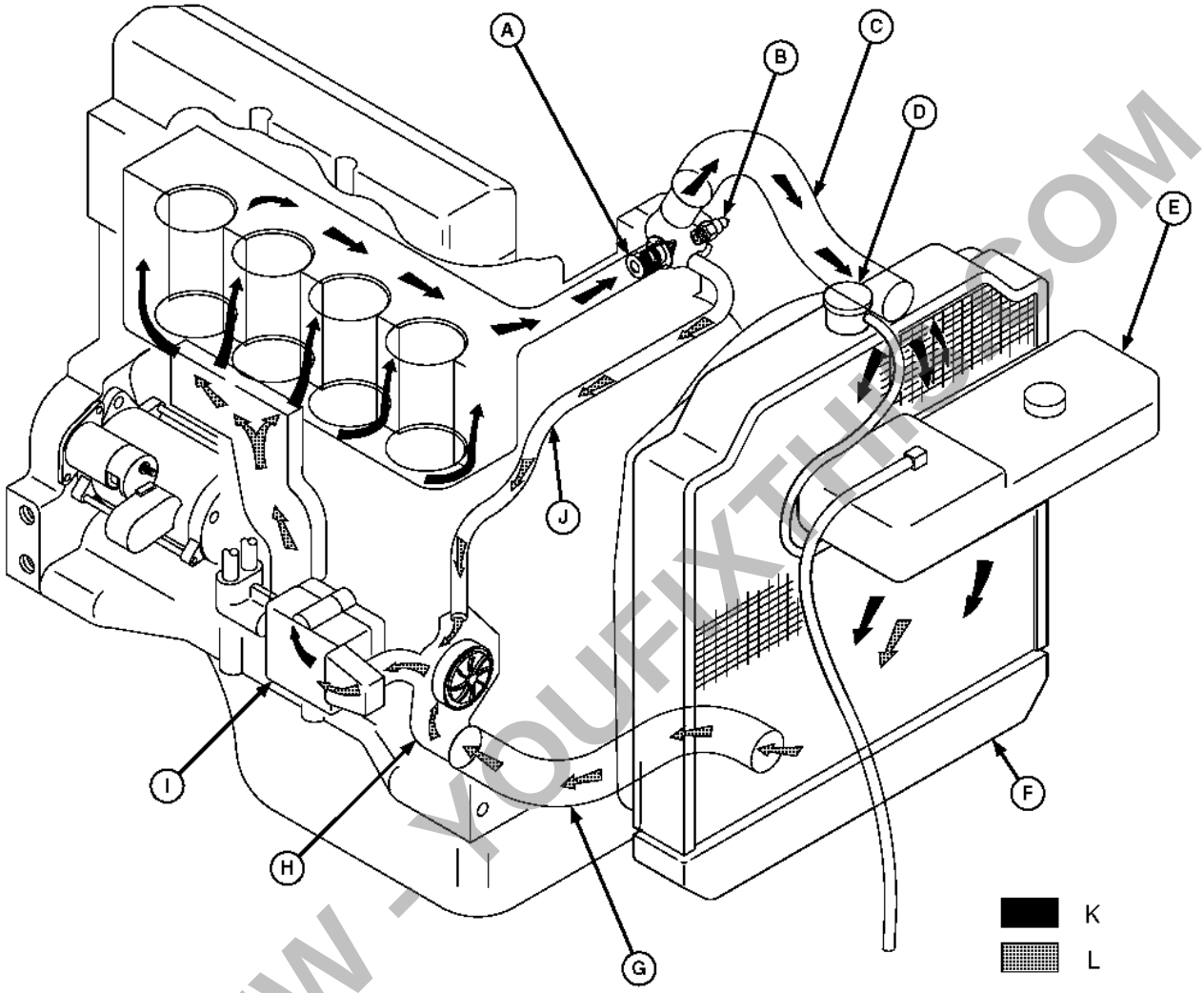
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Cooling System Operation—4-Cylinder Engine



Cooling System Operation—4-Cylinder Engine

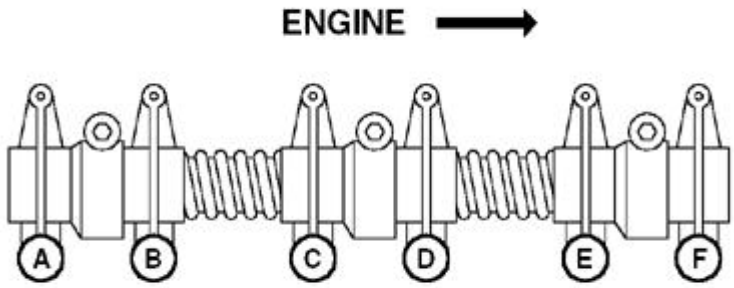
LEGEND:

A	Thermostat
B	Coolant Temperature Sensor
C	Radiator Upper Hose
D	Radiator Cap
E	Coolant Recovery Tank
F	Radiator
G	Lower Radiator Hose
H	Water Pump
I	Oil Radiator
J	Jumper Hose
K	High Temperature

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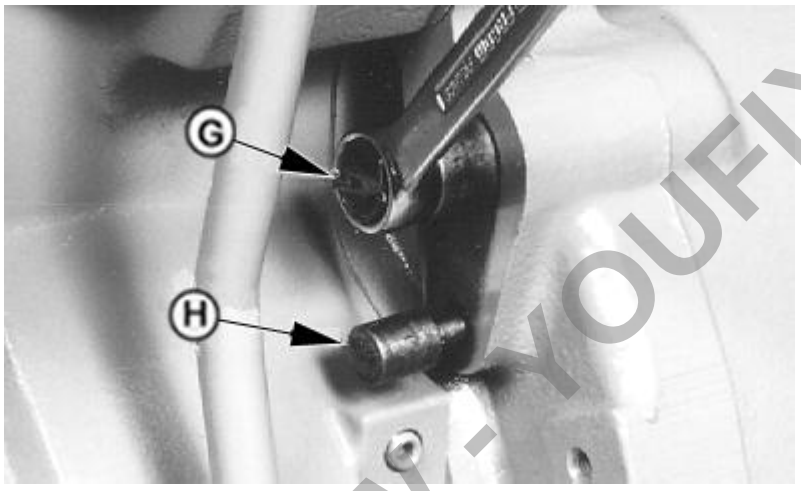
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Adjusting Valve Play—3-Cylinder Engine

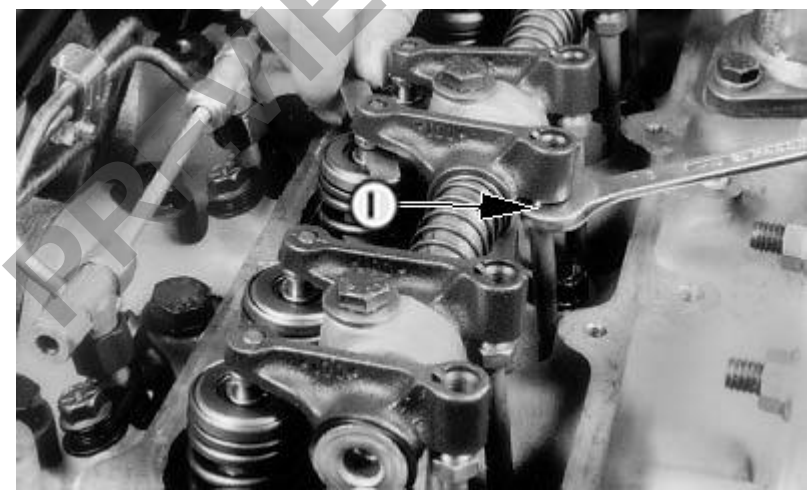


PY6276

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LEGEND:

A Cylinder no. 3 Exhaust Valve

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Diagnostic Diagram and Information on Symbols in Diagram

How to use an Electrical Diagram

All electrical systems of this machine are divided into systems. Each system has an associated Electrical Diagram that gives a complete view of all associated components, connectors, terminal numbers, wiring harnesses and grounding points. There is an example below.

Electrical Diagrams are supplied to give the technician access to all electrical components associated to a specific system of the machine.

This diagram allows following a component's wiring through all associated wiring harnesses up to its final point of use.

Only used connector terminals are shown.

Only components used in a system are shown.

Every power grounding point on the machine received an identification number and location information is available in Section 240 - Group Connector Data, in this Technical Manual.

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Diagram

LEGEND:

A01	Fuse Box
A02	Diode Module
A03	Junction Box
A04	Instrument Panel
E01	Left-Hand Headlight Connector
E02	Right-Hand Headlight Connector
F01	20 A Fuse
F02	20 A Fuse
F03	20 A Fuse
F04	10 A Fuse
F06	10 A Fuse
F07	10 A Fuse
F08	10 A Fuse
F09	10 A Fuse
F13	General Fuse
G01	Battery
G02	Alternator Connector
K01	Position Lights Relay
K03	Rear Presence Lights Relay
K100	Turn Signal Relay
S01	Starter Switch
S02	PTO Switch
S04	Reverse Travel Switch
S05	Hazard Warning Lights Switch
S06	Brake Switch
S07	Turn Signal Switch
S09	Lights Switch
W1	Rear Wiring Harness
X06	Ground Connector

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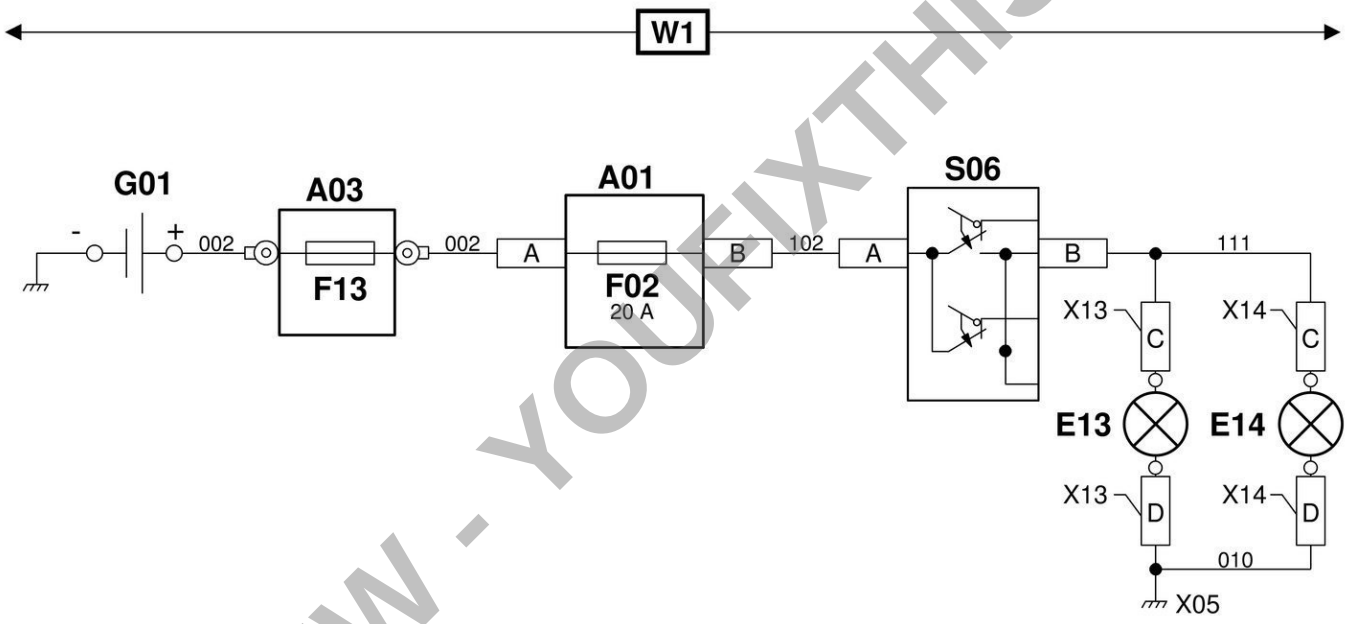
Group 15I - Brake Lights

Theory of Operation

Brake switch (S06) receives power from battery via fuse (F02) and via general fuse (F13).

When brake is depressed, switch (S06) closes contact, current flows to circuit 111 and engages right-hand brake light (E13) and left-hand brake light (E14).

Electrical Diagram



Diagram

LEGEND:

A01	Fuse Box
A03	Junction Box
E13	R.H. Brake Light
E14	L.H. Brake Light
F02	20 A Fuse
F13	General Fuse
G01	Battery
S06	Brake Switch
W1	Rear Wiring Harness
X05	Ground Connector
X13	Brake Lights, Turn Signal Light and Right-Hand Rear Position Light
X14	Brake Lights, Turn Signal Lights and Left-Hand Rear Position Light

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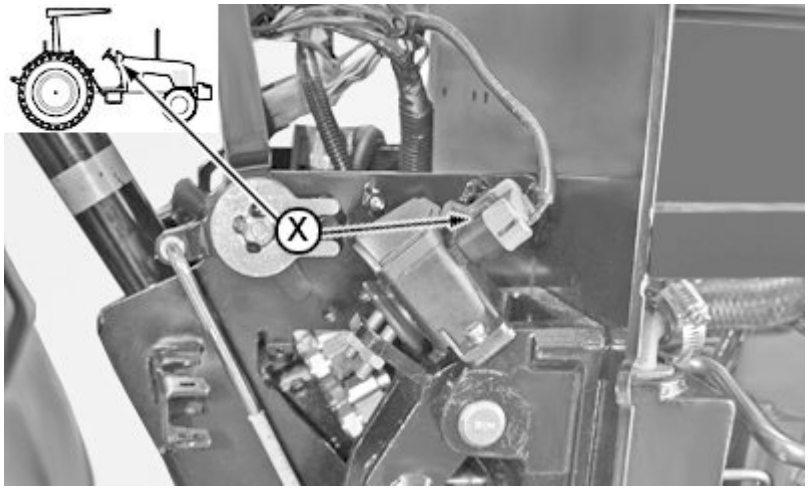
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If in doubt regarding the numbering of wires see " Wire Colors and Code Numbers ", at the beginning of this Section.

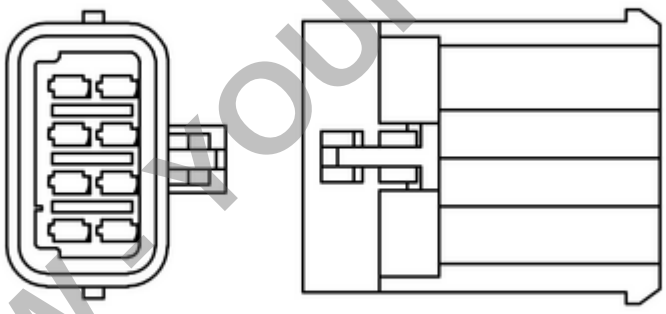
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S06 - Brake Switch



S06



Brake Connector

S06

Pin Code	Wire number
A	102
B	111
C	—
D	—
E	—
F	—

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Group 10 - Electrical Components Test

Battery Test



Battery

Step 1 – Visual inspection:

Check for any obvious damage, such as cracks in the case or broken covers, that can allow a loss of electrolyte. If there is any physical damage, replace the battery. Determine the cause of the damage or corrosion.

Step 2 – Checking the Test Indicator. Observe test indicator and proceed as recommended:
A — GREEN: sufficient charge for test.
B — DARK: charge insufficient for test. Recharge battery (see Recharging Battery) until green point is visible.
C — CLEAR: Indicates a low electrolyte level. Replace battery and check tractor electrical system.

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Diagram

LEGEND:

A01	Fuse Box
A02	Diode Module
A03	Junction Box
A04	Instrument Panel
E01	Left-Hand Headlight Connector
E02	Right-Hand Headlight Connector
F01	20 A Fuse
F02	20 A Fuse
F03	20 A Fuse
F04	10 A Fuse
F05	10 A Fuse
F06	10 A Fuse
F07	10 A Fuse
F08	10 A Fuse
F09	10 A Fuse
F10	10 A Fuse
F13	Main Fuse
G01	Battery
G02	Alternator Connector
K01	Position Lights Relay
K02	Fuel Cut-Off Relay
K03	Rear Presence Lights Relay
K06	Fuel Transfer Pump Relay
K100	Turn Signal Relay
S01	Starter Switch
S02	PTO Switch
S04	Reverse Travel Switch
S05	Hazard Warning Lights Switch
S06	Brake Switch
S07	Turn Signal Switch
S09	Lights Switch
W1	Rear Wiring Harness
X06	Ground Connector

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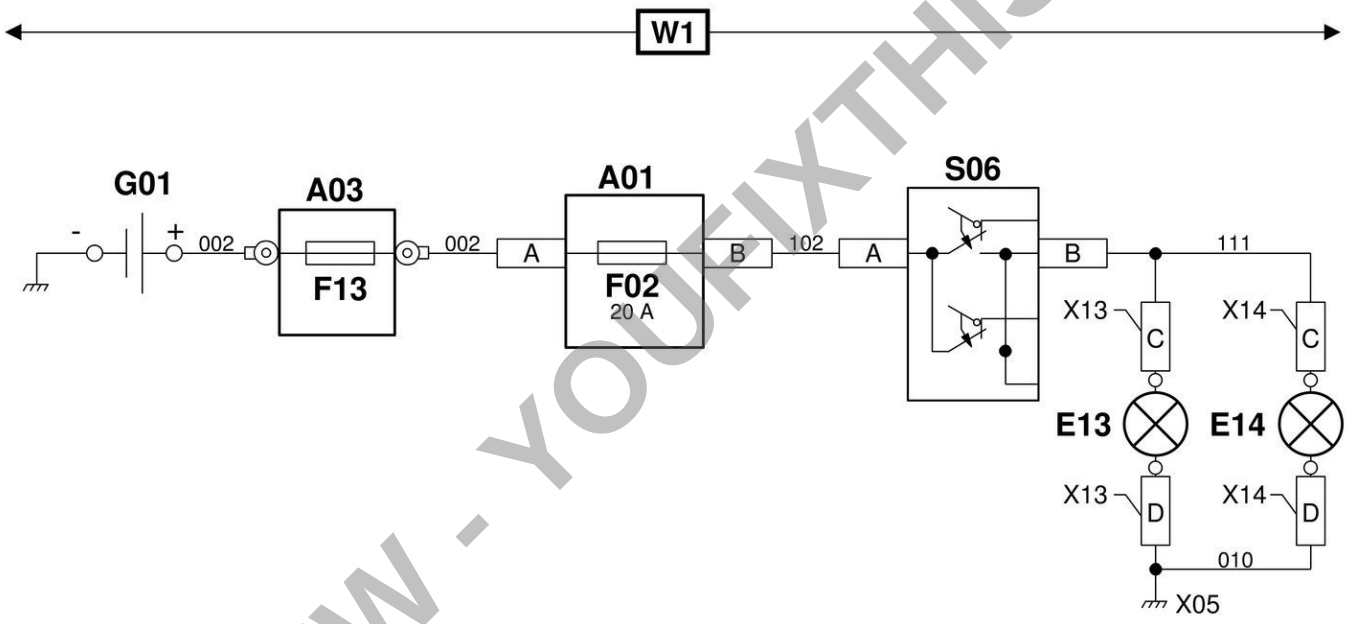
Group 15K - Brake Lights

Theory of Operation

Brake switch (S06) receives power from battery via fuse (F02) and via general fuse (F13).

When brake is depressed, switch (S06) closes contact, current flows to circuit 111 and engages right-hand brake light (E13) and left-hand brake light (E14).

Electrical Diagram



Diagram

LEGEND:

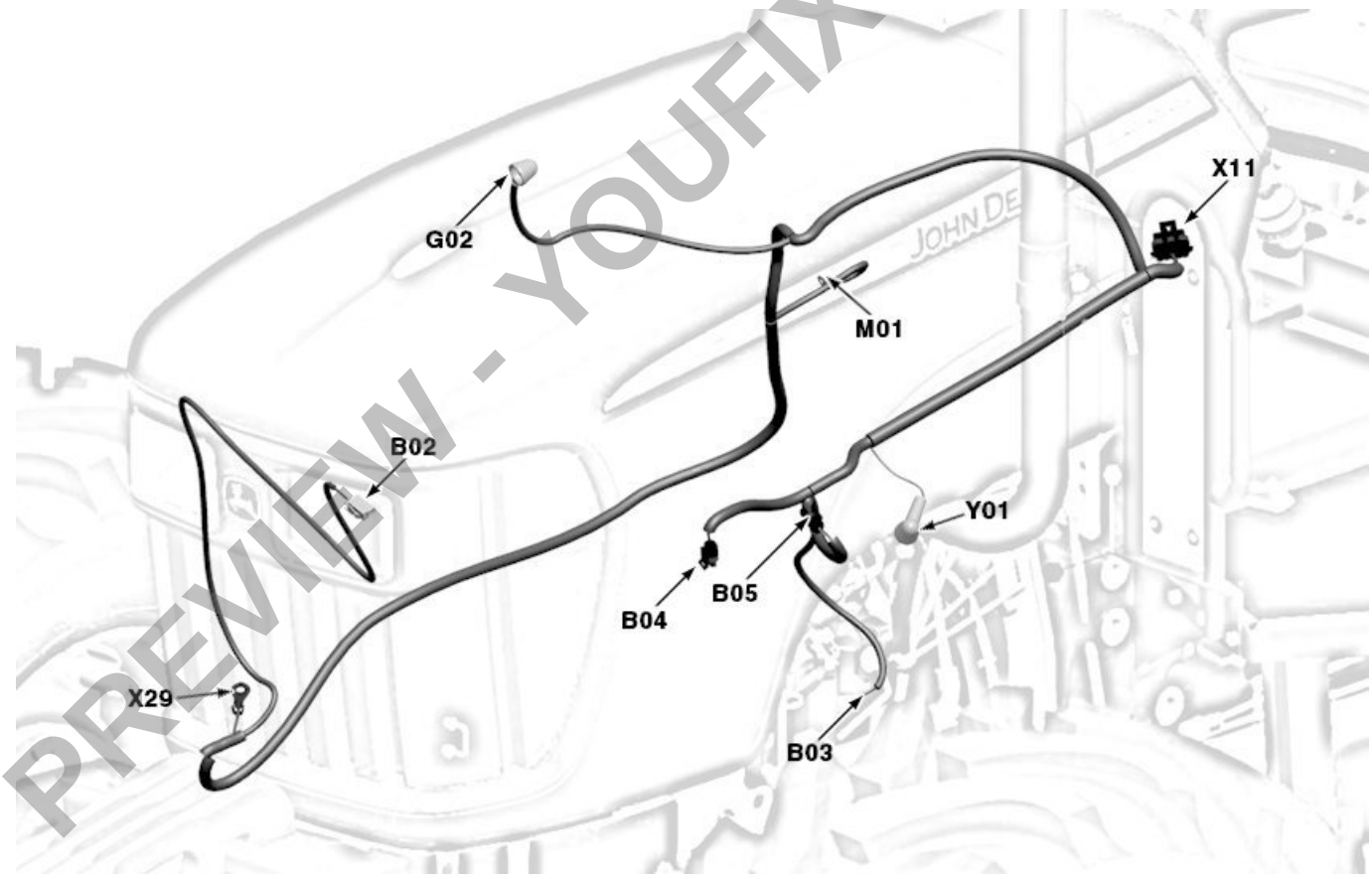
A01	Fuse Box
A03	Junction Box
E13	R.H. Brake Light
E14	L.H. Brake Light
F02	20 A Fuse
F13	General Fuse
G01	Battery
S06	Brake Switch
W1	Rear Wiring Harness
X05	Ground Connector
X13	Brake Lights, Turn Signal Light and Right-Hand Rear Position Light
X14	Brake Lights, Turn Signal Lights and Left-Hand Rear Position Light

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S03 Horn Switch
S04 Reverse Travel Switch
S05 Hazard Warning Lights Switch
S06 Brake Switch
S07 Turn Signal Switch
S09 Lights Switch
X05 Ground Connector
X06 Ground Connector
X10.1 Instrument Panel Connector
X10.2 Instrument Panel Connector
X11 Connector Between Front Wiring Harness and Rear Wiring Harness
X12 Connector between Cowl Wiring Harness and Rear Wiring Harness
X13 Brake Lights, Turn Signal Light and Right-Hand Rear Position Light
X14 Brake Lights, Turn Signal Lights and Left-Hand Rear Position Light
X15 Right-Hand Front Turn Signal and Position Light
X16 Left-Hand Front Turn Signal and Position Light

Front Wiring Harness (W02)



Front Wiring Harness

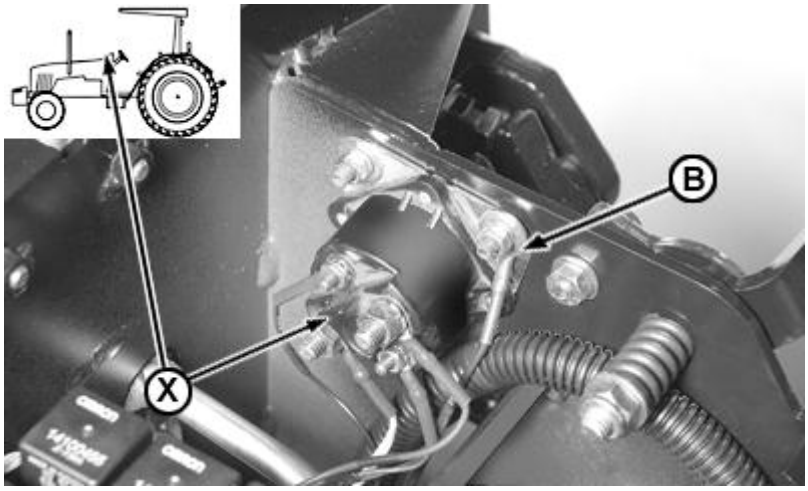
LEGEND:

B02 Air Filter Restriction Sensor
B03 Engine Oil Pressure Sensor
B04 Engine Speed Sensor
B05 Coolant Temperature Sensor

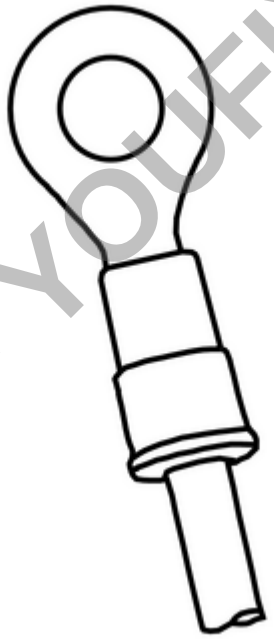
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KST - Starter Relay



Starter Relay



Terminal wires

LEGEND:

B Ground terminal

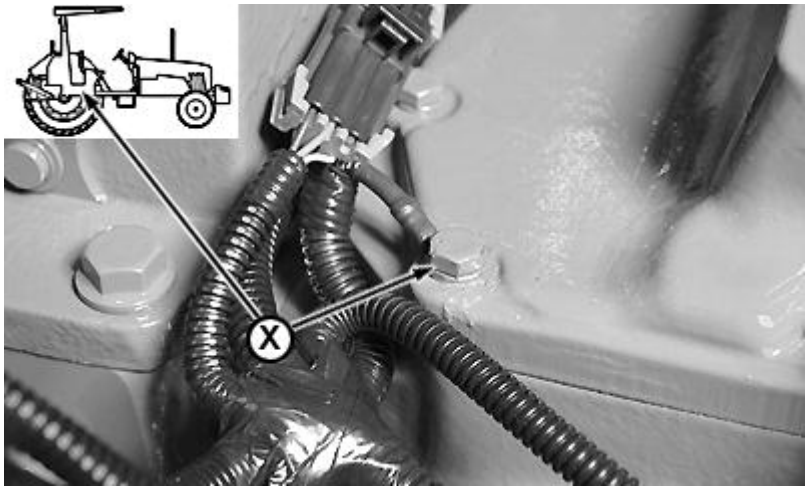
KST

Pin Code	Wire Number
—	301
—	010

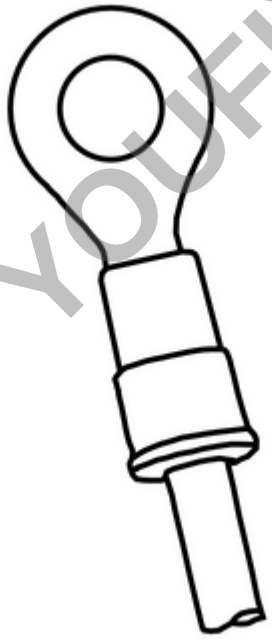
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X05 - Ground Connector



X05



X05 - Ground terminal

X05

Pin Code	Wire number
A	010

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(1) Checking Lamp

Action:

Check under what conditions the alternator does not charge. Charge indicator light at instrument panel goes off?

Result:

YES: Go to step 3.

NO: Go to step 2.

(2) Alternator

Action:

Check instrument panel lamp connections. Connections are correct?

Result:

YES: Check alternator and replace if necessary.

NO: Repair connections.

(3) Alternator

Action:

Check alternator terminals (loose cables, grounding and corrosion). Terminals are correct?

Result:

YES: Go to step 4.

NO: Repair connection.

OK: Check if alternator charges correctly, if not, go to step 4.

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Diagnosing

Instrument Panel Malfunction

(1) Power Supply - Fuse

Action:

Check fuse (F06). Fuse is OK?

Result:

YES: Go to 2.

NO: Replace fuse.

(2) Power Supply

Action:

Measure voltage at terminal A of connector X10.1 at instrument panel. Terminal has 12 V?

Result:

YES: Go to 2.

NO: Go to 4.

(3) Grounding

Action:

Check instrument panel ground wire. Grounding is OK?

Result:

YES: Check panel, replace if necessary.

NO: Repair grounding.

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Electrical Diagram

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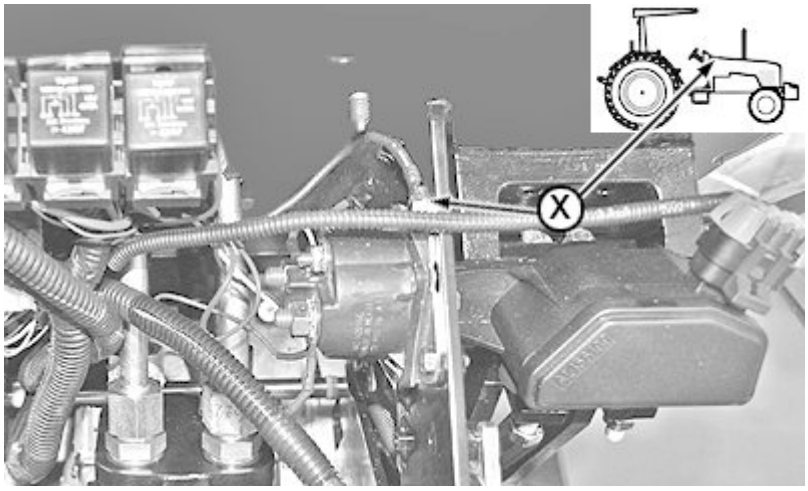
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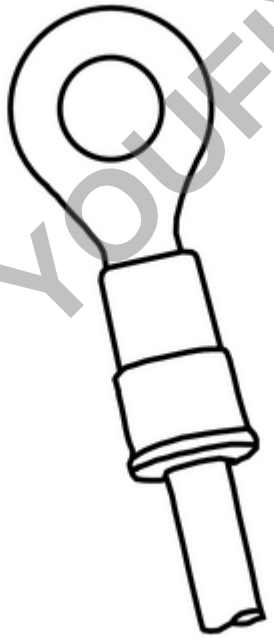
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X06 - Ground Connector



X06



X06 - Ground terminal

X06

Pin Code	Wire number
A	010

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E PTO Clutch Engagement Finger
F Traction Clutch Release Bearing
G PTO Clutch Engagement Bearing
H Clutch Pedal Linkage
I Traction Clutch Shaft
J PTO Clutch Shaft
K Traction Clutch Armshaft
L Traction Clutch Release Finger
M Traction Clutch Disk
N PTO Clutch Disk
O PTO Clutch
P Traction clutch

Depressing the clutch pedal moves clutch pedal linkage (H) upward, causing the traction clutch armshaft (K) to rotate and force traction clutch release bearing (F) against traction clutch release fingers (L). The clutch release bearing depresses the release fingers, causing traction clutch pressure plate (D) to move forward against spring washer (C), compressing the spring washer.

Since pressure plate (D) is no longer held against traction clutch disk (M) by the clamping force of spring washer (C), the traction clutch disk is no longer forced to turn with flywheel (A). The traction clutch shaft (I) stops turning.

The PTO clutch power transmittal is uninterrupted by the traction clutch disengagement.

Traction Clutch Disengaged and PTO Clutch Disengaged

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Transmission Noisy

CONDITIONS:

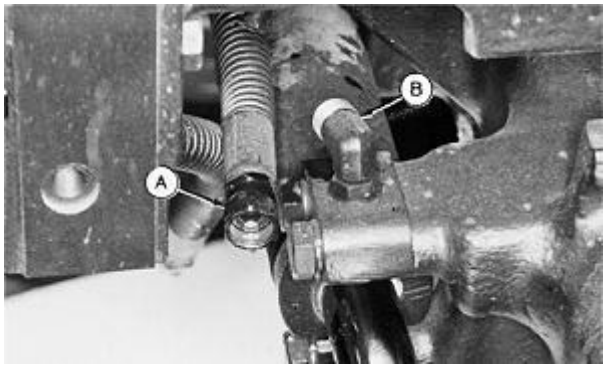
Transmission Noisy

Test Location	Normal	If Not Normal
1. Transmission shafts.	Shafts and shaft bearings spin freely and without noise. No evidence of wear or damage to shaft splines or bearings.	Replace worn or damaged components.
2. Transmission gears.	Gears that are splined to shafts are not loose. Gears that float on shafts turn freely. Shift collars and/or synchronizers slide freely between gears with no binding. No evidence of wear or damage to gear teeth or splines.	Clean and lubricate any binding parts. Replace worn or damaged components.
3. Speed and range shift forks.	No evidence of wear, damage, or bent condition.	Replace worn or damaged components.
4. Park pawl assembly.	Park pawl retracts fully when disengaged.	Replace worn or damaged linkage or springs.

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Steering Cylinder Leakage Test



Steering Cylinder Leakage Test

LEGEND:

A Hydraulic Hose
B Cylinder Fitting

REASON:

To determine if leakage exists in steering cylinder.

PROCEDURE:

[1] - Turn steering wheel to full left position to fully extend cylinder end.

[2] - Shut off engine.

[3] - Disconnect hydraulic hose (A) from right-hand side of steering cylinder (extended end).

[4] - Start engine and run at high idle.

[5] - Continue to turn steering wheel to the left.

[6] - Watch for any flow of oil out of cylinder at fitting (B).

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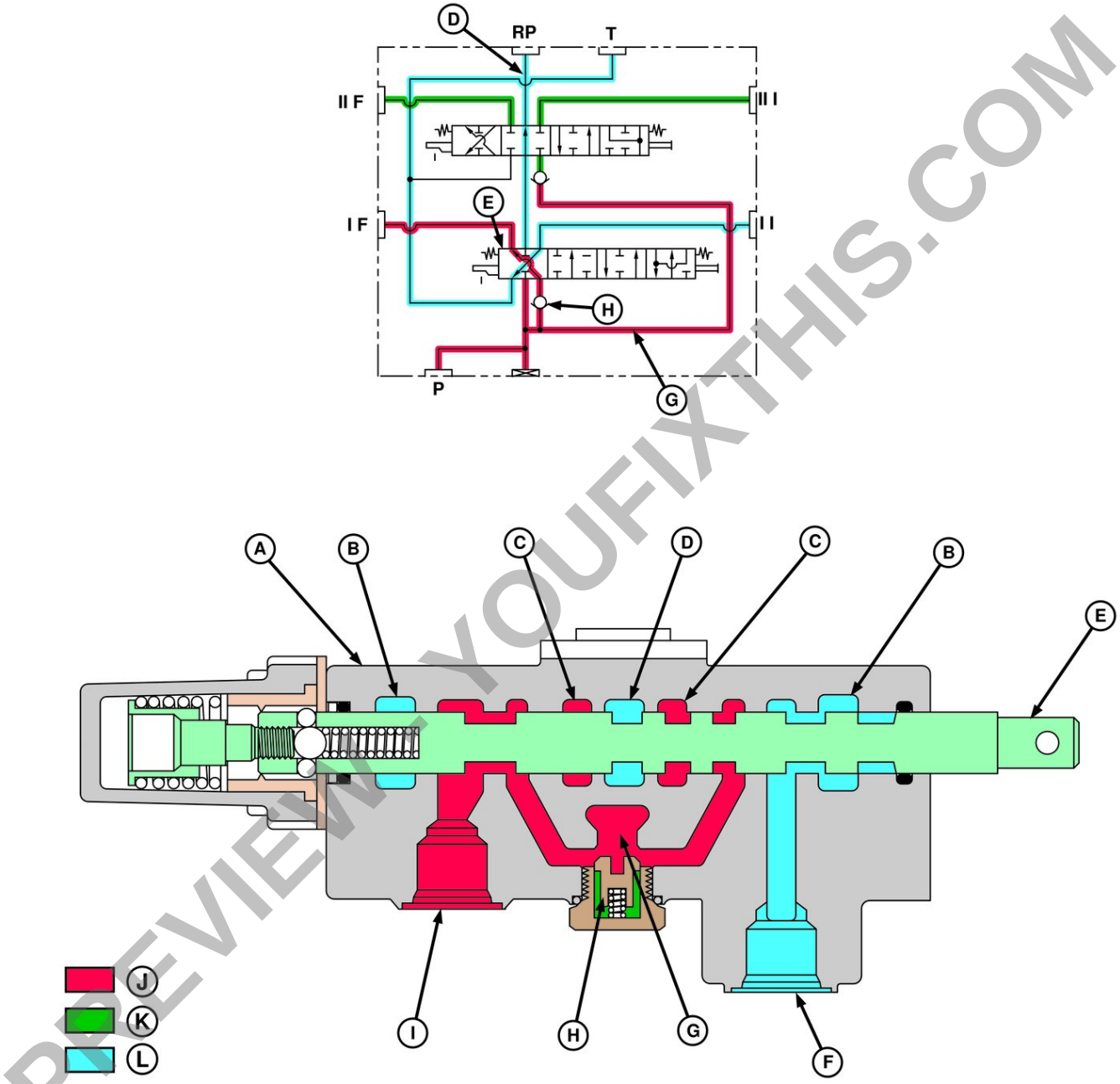
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Rockshaft Control Valve Operation—Neutral Position (Early Model Straddle Mount)

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SCV Operation—Isolated Open Operator Station and Cab Tractors (Extend and Retract Positions)



SCV Operation-Isolated Open Operator Station and Cab Tractors-Extend and Retract

LEGEND:

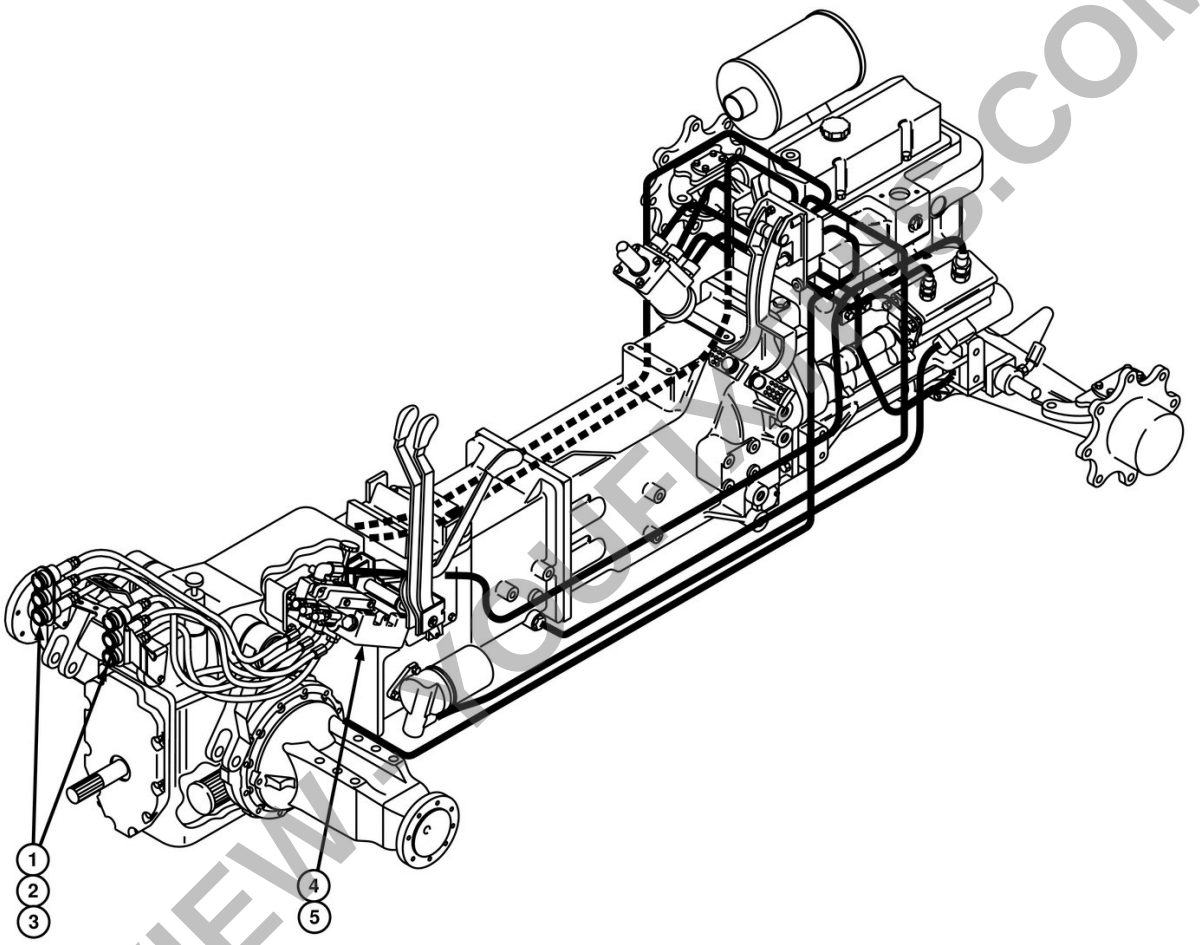
- A Valve Housing
- B Sump Passage
- C Inlet Passages
- D Return Pressure Passage
- E Spool

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Hydraulic System Test—With SCV (Step Platform Tractors)

→NOTE:



Hydraulic System. Tests - With SCV - Step Platform

LEGEND:

1 Rear coupler
2 Rear coupler
3 Rear coupler
4 SCV valves
5 Hydraulic hitch valve

For hydraulic system tests on tractors without SCV, see Hydraulic System Test—Without SCV (Step Platform Tractors), in Group 16.

CONDITIONS:

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