Group 20 - Operation
Section 256 - DRIVE TRAIN (WITHOUT TRANSMISSION)
Group 10 - Operational Checks
Group 15 - Tests and Adjustments
Group 20A - Front-Wheel Drive Clutch
Group 20B - Differential
Group 20C - Final Drives
Group 20D - Rear PTO Options
Section 260 - STEERING AND BRAKES
Group 05 - Introductory Checks
Group 10 - Operational Checks
Group 15 - Tests and Adjustments
Group 20A - Hydrostatic Steering
Group 20B - Brake Valve
Group 20C - Rear Brakes
Group 20D - Handbrake
Group 20E - Hydraulic Trailer Brake
Group 20F - Air-Brake System
Section 270 - HYDRAULIC SYSTEM
Group 10 - Operational Checks
Group 15 - Tests and Adjustments
Group 20 - Operation
Group 20A - Oil Filter, Charge Pump and Hydraulic Pump
Group 20B - Hitch
Group 20C - Selective Control Valves (SCVs)
Group 20D - Independent Control Valves (ICVs)
Group 20E - Hydraulic block
Section 280 - MISCELLANEOUS
Group 10 - Operational Checks
Group 15 - Tests and Adjustments
Group 20 - Operation
Section 290 - OPERATOR´S CAB
Group 10 - Operational Checks
Group 15 - Tests and Adjustments
Group 20A - Ventilation/Heating
Group 20B - Air Conditioning System
Section 299 - SPECIAL TOOLS
Group 05 - Special Tools (Dealer-Fabricated)
Group 10 - Special Tools (Available as Spare Parts)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Result:

YES: Diagnostics completed.

NO: Modify setting, and confirm.

BCU 522451.04- Non-Existent Function Activated

06

This diagnostic trouble code is triggered if the control unit recognizes an open circuit when a non-existent function is activated in address BCU071.

Diagnostics

Reaction of control unit: No restriction on functionality.

(1) Verify diagnostic trouble codes

Action:

1. Delete diagnostic trouble code.
2. Switch main (key) switch off, wait for at least 5 seconds, then switch it on again.
3. Access the diagnostic trouble codes again.

Result:

YES: If the diagnostic trouble code is no longer displayed: Diagnostics completed.

NO: If the diagnostic trouble code is displayed again after being deleted: GO TO 2.

(2) Check input address BCU071

Action:

Access addressBCU 071 and make sure that the display complies with the following:

Item	Measurement	Specification
BCU071: Basic functions, input address of steering angle sensor:	Input value	always 0

Result:

YES: Diagnostics completed.

NO: Modify setting, and confirm.

BCU 522451.14- Non-Existent Function Activated

06

This diagnostic trouble code is triggered if the control unit recognizes an open circuit when a non-existent function is activated in address BCU071.

Diagnostics

Reaction of control unit: No restriction on functionality.

(1) Verify diagnostic trouble codes

Action:

1. Delete diagnostic trouble code.
2. Switch main (key) switch off, wait for at least 5 seconds, then switch it on again.
3. Access the diagnostic trouble codes again.

Result:

YES: If the diagnostic trouble code is no longer displayed: Diagnostics completed.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ECU 003511.03- Sensor Supply Voltage 3 Too High

17

The ECU detects a supply voltage above specification (above 5.26 V) in the 5 volt supply circuit for the hand throttle potentiometer (B96).

Diagnostics

Alarm level: CAUTION.

(1) Verify diagnostic trouble codes

Action:

→NOTE:

Delete the diagnostic trouble codes and carry out an operational check or a test-drive. Thereafter refresh diagnostic trouble codes.

For more information on how to process diagnostic trouble codes, see "Operation and General Information on Diagnostics - Access the Addresses and Diagnostic Trouble Codes" in Section 245, Group 05.

Result:

YES: Diagnostic trouble code is ACTIVE: GO TO 2 .

NO: The diagnostic trouble code is STORED:• Other active diagnostic trouble codes must be processed first.• If no other active diagnostic trouble codes exist and the code appears repeatedly during operational check: GO TO 2 .

(2) Check supply voltage

Action:

- Ignition ON.
- Access addressECU011.
- Make sure that the information displayed at address ECU011 complies with the following:

Item	Measurement	Specification
ECU011: Supply voltage for the hand throttle potentiometer (B96), displayed in volts	valid voltage range	between 4.60 - 5.25 volts

Result:

YES: GO TO 4 .

NO: GO TO 3 .

(3) Check the circuit

Action:

Check leads 5093 and 5068 between ECU control unit and hand throttle potentiometer (B96).

- For details of location and information on components, see "B96 - Hand Throttle Potentiometer" in Section 240, Group 115.
- For a summary of the layout of leads, see:
  - "Diagnostic Schematic, SE23 - Level 16 ECU (Electronic Engine Control)" in Section 240, Group SE23.
  - Diagnostic Schematic, SE23 - Level 16 ECU (Electronic Engine Control) (Open Operator's Station) in Section 240, Group SE23.
- For a summary of the wiring harnesses, see "Component Information - Wiring Harnesses - Summary of References" in Section 240, Group 110.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

NO: Repair as required and do an operational check; see "B105 - Enable Pressure Sensor, Operational Check" in Section 245, Group EPC.

(6) Checks for faults that only occur intermittently

Action:

Type of error indicates a loose contact:

- Check the plug connections. For a summary of the layout of leads, see "Diagnostic Schematic, SE26A - EPC Control Unit (Transmission Control with PowrQuad Plus Transmissions)" in Section 240, Group SE26A.
- For back-up, see also additional references for circuit checks: "Test Procedure in the Event of Occasional Malfunctions in the EPC Circuits (EPC Beep Mode)" in Section 240, Group SE26A.

Result:

YES:• See "General Information - Electrical System, Troubleshooting Unsolved Problems" in Section 210, Group 10.• Check DTAC to find out whether there is any more information on this diagnostic trouble code.

NO: Repair as required and do an operational check; see "B105 - Enable Pressure Sensor, Operational Check" in Section 245, Group EPC.

(7) System check

Action:

Perform a "PowrQuad Transmission - System Check".

For information on test ports, see "PowrQuad Transmission - Test Ports".

Result:

YES: All pressures within specifications: Diagnostics completed.

NO: Repair as needed and carry out an operational check.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TSC 523847.06- Y69 - Solenoid Valve for Building Up Pressure (TLS), Current Too High

211

This diagnostic trouble code is generated when the control unit measures too high a current at the signal input of the solenoid valve for building up pressure (Y69). This indicates a short to ground in the circuit.

Diagnostic procedure

Alarm level: Caution.

(1) Verify diagnostic trouble code

Action:

→NOTE:

Delete the diagnostic trouble codes and do an operational check on faulty component/function, or do a test drive. Thereafter refresh diagnostic trouble codes.

For more information on how to process diagnostic trouble codes, see Operation and General Information on Diagnostics - Accessing Addresses and Diagnostic Trouble Codes in Section 245.

→NOTE:

This diagnostic trouble code is stored immediately, but displayed to the operator only after several malfunctions have occurred.

Result:

YES: Diagnostic trouble code is ACTIVE: GO TO 2 .

NO: The diagnostic trouble code is STORED:• Other active diagnostic trouble codes take priority.• If no other active diagnostic trouble codes exist and the code appears repeatedly during operational check: GO TO 2 .

(2) Check the solenoid valve for building up pressure (TLS)

Action:

IMPORTANT:

Make sure that the tractor is not running (ignition OFF) and that park lock is engaged.

Remove the solenoid valve for building up pressure (Y69) and check the resistance between pins A and B on the solenoid valve:

Item	Measurement	Specification
Y69 - Solenoid valve for building up pressure (TLS), resistance	Solenoid resistance	10.2 +/-0.4 ohms at 20°C (68°F)

For details of location and information on components, see Y69 - Solenoid Valve for Building Up Pressure (TLS) in Section 240.

Result:

YES: GO TO 3 .

NO: Replace the solenoid valve for building up pressure (TLS) with a new one. Delete the diagnostic trouble code and do an operational check; see Y69 - Solenoid Valve for Building Up Pressure (TLS), Operational Check in Section 245.

(3) Check the component

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

NO: Repair as needed and carry out an operational check.

(6) Ascertaining and verifying the status of the software

Action:

1. Ascertain the current status of the EPC control unit's software, and make a note of its status:
   - EPC: Ascertain software status via addressesEPC233 andEPC234 , and make a note of status.
2. Check whether more up-to-date**EPC** reprogramming software can be downloaded via John Deere Intranet (John Deere Custom Performance).

IMPORTANT: Before programming a control unit with more up-to-date software, always check with DTAC whether there is information concerning the new software.
→NOTE: For more information, go to DTAC and see the summary of software for 6030 Series tractors.

Result:

YES: If there is more up-to-date software: GO TO 7 .

NO: If no more up-to-date software is available: GO TO 8 .

(7) Reprogramming of control unit

Action:

Download the current software for reprogramming the control unit from John Deere Intranet (John Deere Custom Performance). Reprogram the control unit with the current software file.

Result:

YES: If more up-to-date software solves the problem: Diagnostics completed.

NO: GO TO 8 .

(8) Checks for faults that only occur intermittently

Action:

Do a visual inspection on the EPC control unit, all the components that can be related to the problem and all their associated connectors.

1. Check for signs of damage or dirt.
2. Check the electrical connections for bad, loose, widened, slid-back or corroded contacts; also check the leads.
   - For back-up, see also additional references for circuit checks: "Test procedure in the event of occasional malfunctions in the EPC circuits (EPC beep mode)" in Section 240, Group SE26A.

For a summary of the layout of leads (cross-references to details of location and component information), see "Diagnostic Schematic, SE26A - EPC Control Unit (Transmission Control on PowrQuad Plus Transmission)" in Section 240, Group SE26A.

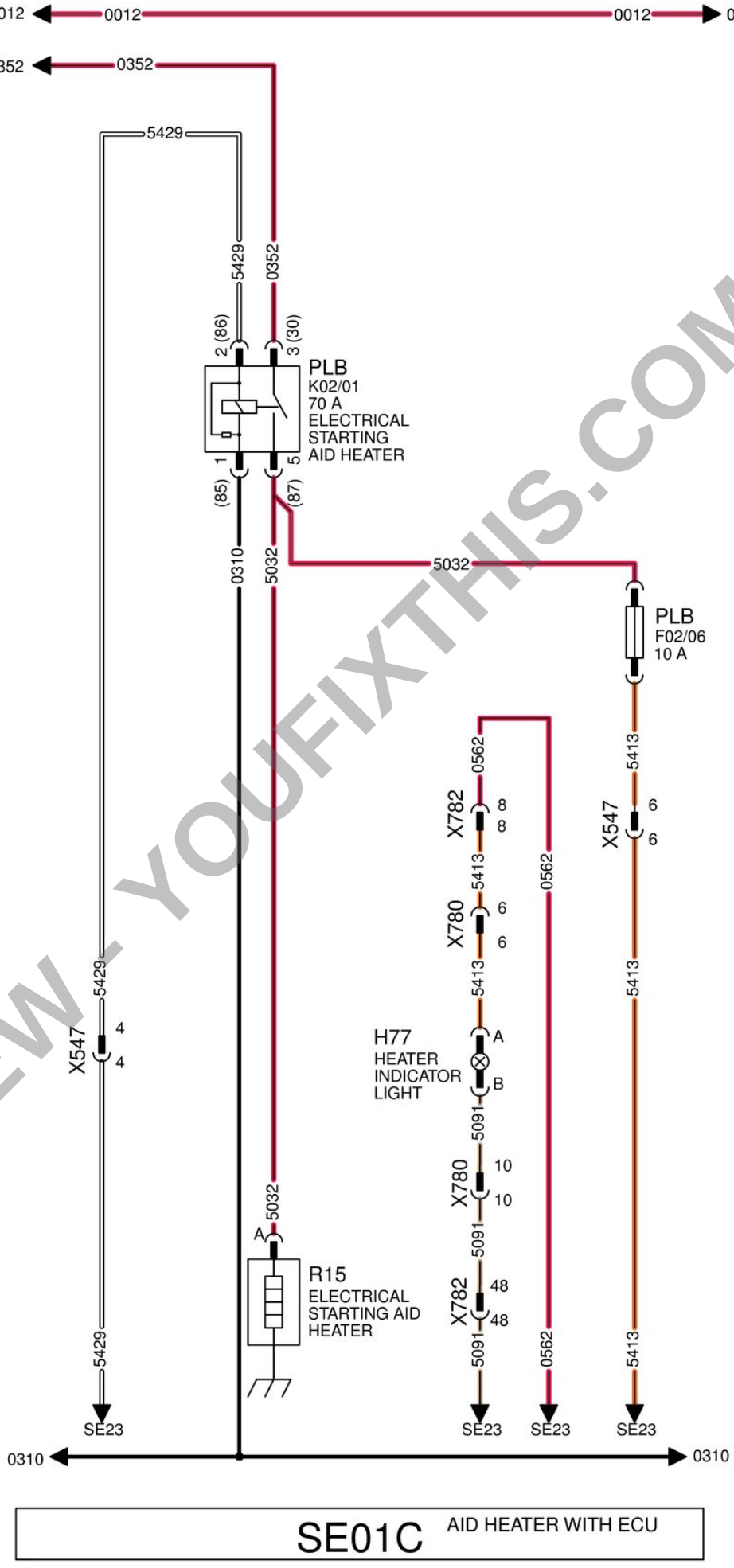
Result:

YES:• See "General Information - Electrical System, Troubleshooting Unsolved Problems" in Section 210, Group 10.• Check DTAC to find out whether there is any more information on this problem.

NO: Repair as needed and carry out an operational check.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



SE01C AID HEATER WITH ECU

LX1047567

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. X430M - Connecting Point between Harnesses W21 and W63
4. X287F - Connecting Point between Harnesses W63 and W21
5. X287M - Connecting Point between Harnesses W21 and W63
6. X616F-1 - Plug of BCU Control Unit (Cab)
7. X616F-1 - Plug of BCU Control Unit (Open Operator's Station)

→NOTE:

For assistance with the circuit test, see the worksheet for circuit diagnostics in General Information - Electrical System, Worksheet for Circuit/Harness Test in Section 210.

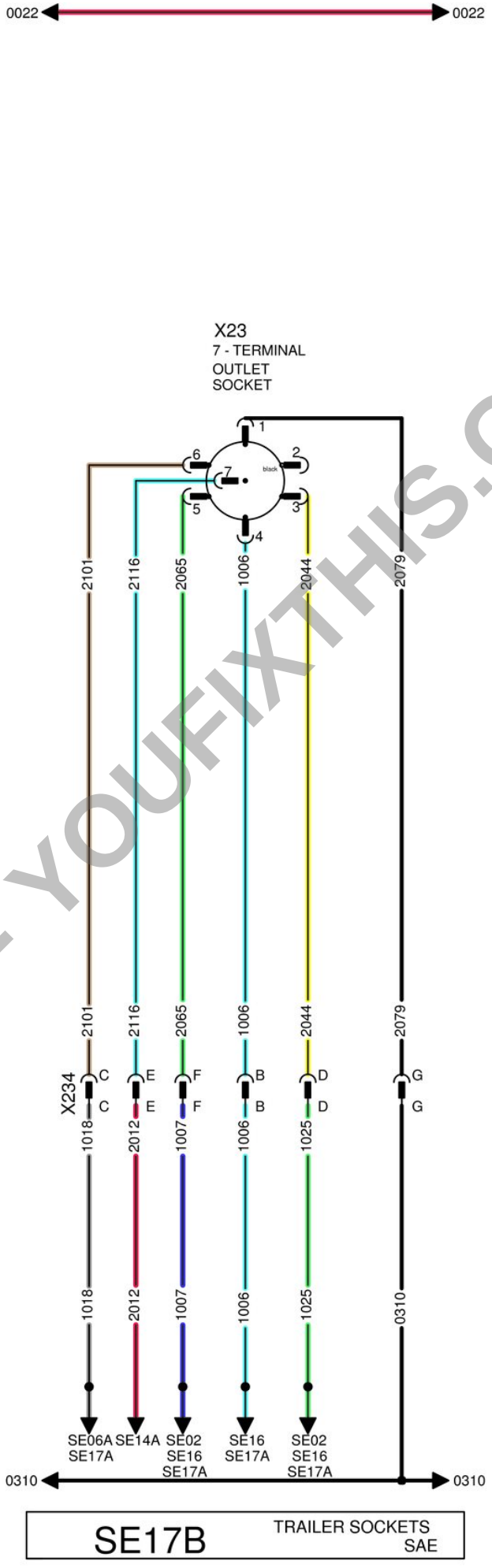
Result:

YES: If there are diagnostic trouble codes that indicate a problem with the circuit:• Check the leads and connecting points for bad, widened, slid-back or corroded (**loose**) contacts.• Check DTAC to find out whether there is any more information on this diagnostic trouble code.

NO: Repair as required and do an operational check; see B19 - R.h. Draft Sensor, Operational Check in Section 245.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



LX1044488

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Item	Measurement	Specification
A82 - Reverse drive lever, supply voltage	Voltage	12 volts

Result:

YES: Check signal leads, GO TO 4 .

NO:• Check fuse F04/09.• Fuse is OK: GO TO 2.2.

Action:

2.2 - Check the ground lead:

- Use a JT05791A or JDG1478 multimeter to check the power supply to plug X767F between pin H (positive lead 0582) and any defined ground connection:

Item	Measurement	Specification
A82 - Reverse drive lever, supply voltage	Voltage	12 volts

Result:

YES: Check ground lead 0050: GO TO 4 .

NO: GO TO 4 .

(3) Check the component

Action:

For component check, see "A82 - Reverse Drive Lever" in Section 240, Group 115.

Result:

YES: If there are diagnostic trouble codes that indicate a problem with the circuit: Check the leads and connecting points for bad, widened, slid-back or corroded (**loose**) contacts: GO TO 4 .

NO: Replace the component and do an operational check; see "A82 - Reverse Drive Lever (PRC), Operational Check" in Section 245, Group PRC.

(4) Check the leads and plug connections

Action:

Check the leads and plug connections from reverse drive lever (A82) to PRC control unit, fuse F04/09 and ground connection XGND43A:

For a summary of the layout of leads, see:

- "Diagnostic Schematic, SE26B - PRC Control Unit (Transmission Control with Electrically Actuated PowrReverser Transmission)" in Section 240, Group SE26B.

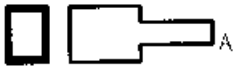
Checks:

1. Check positive lead 0582.
2. Check ground lead 0050.
3. Check signal lead 6000 (forward).
4. Check signal lead 6109 (reverse).
5. Check signal lead 6051 (not-neutral).
6. Check signal lead 6014 (neutral).

PREVIEW - YOUFIXTHIS.COM

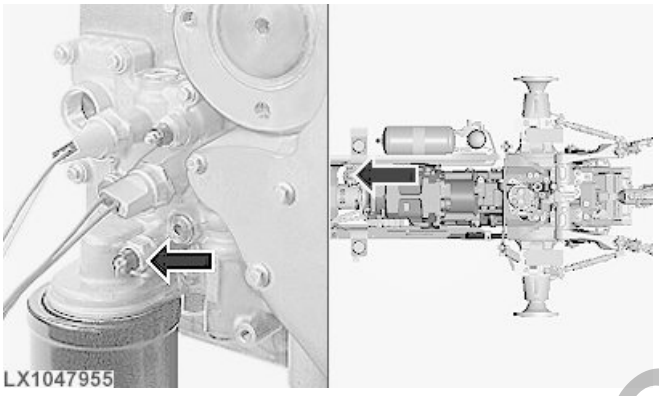
Download full manual at youfixthis.com

X81F - Terminal with Ring, Low-Temperature Switch (Transmission Oil)

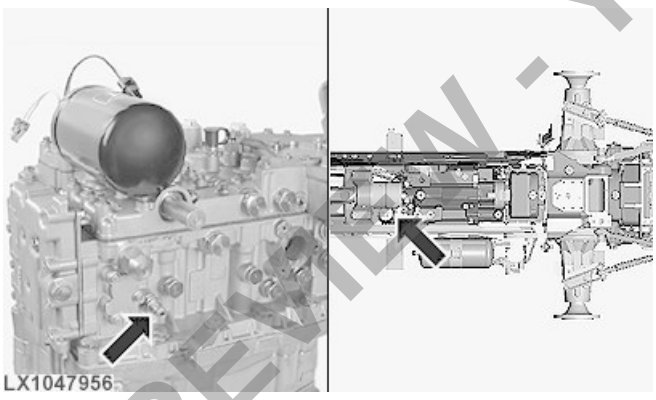


LX1017944

X81F



X81F (SyncroPlus or PowrReverser Transmission)



X81F (PowrQuad Transmission)

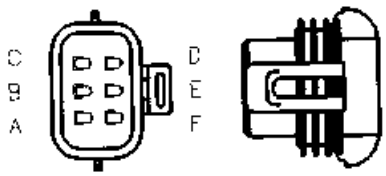
Component information

Component information	
Number of pins:	1
Spare part number:	57M7210
Manufacturer / repair information:	AMP For repair information, see Section 40, Group 05 of the relevant repair manual.
Connection point:	Components B29, see Component Information - Electrical Parts/Components - Summary of References in Section 240, Group 115.
Wiring harness:	W61, see Component Information - Wiring Harnesses - Summary of References in Section 240, Group 110.

PREVIEW - YOUFIXTHIS.COM

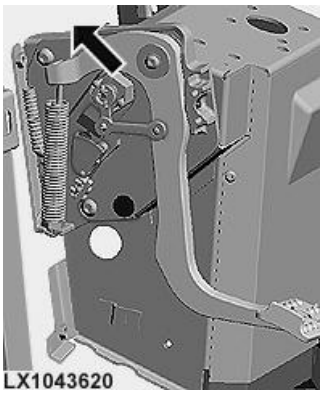
Download full manual at youfixthis.com

X322F - Connecting Point between Harnesses W22 and W27



LX1017894

X322F



X322F

Component information

Component information	
Number of pins:	6
Spare part number:	57M7260
Manufacturer / repair information:	METRI PACK For repair information, see Section 40, Group 05 of the relevant repair manual.
Connection point:	X322M, see Section 240, Group 105.
Wiring harness:	W22, see Component Information - Wiring Harnesses - Summary of References in Section 240, Group 110.
Circuit:	SE26A - EPC Control Unit (Transmission Control with PowrQuad Plus Transmission) - Summary of References in Section 240, Group SE26A.

Connector layout

Connector layout		
Pin no.	**Lead no.**	**Wire color**
A	6004A	yellow
B	0582AB	red
C	6007A	purple
D	6031A	brown
E	6114A	yellow
F	6033A	orange

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Connector layout up to Serial Number Break 2009		
Pin no.	**Lead no.**	**Wire color**
G	-	-
H	-	-
J	-	-
K	-	-

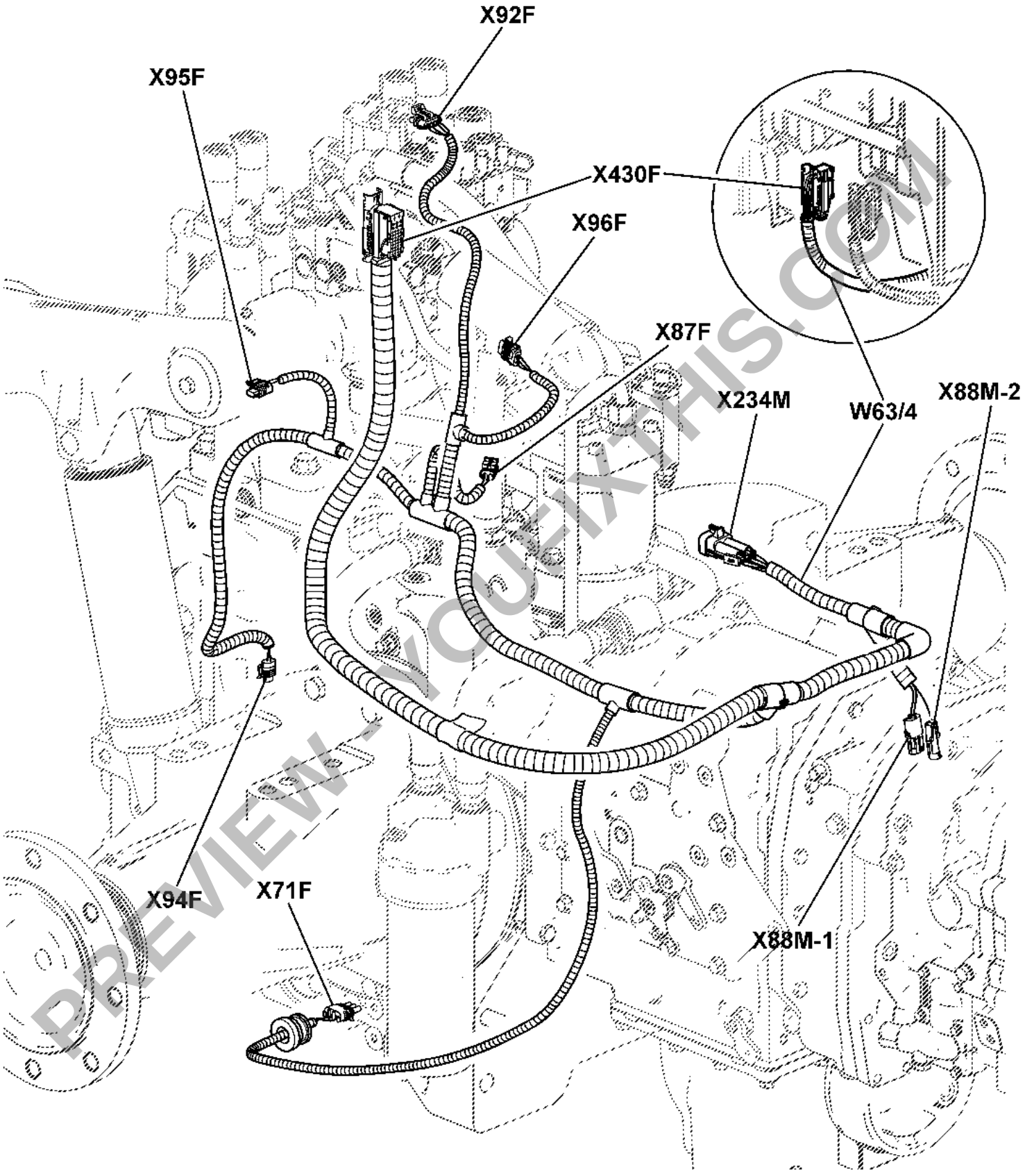
Connector layout from Serial Number Break 2009

Connector layout from Serial Number Break 2009		
Pin no.	**Lead no.**	**Wire color**
A	0402A	red
B	2109A	white
C	2073A	orange
D	2035A	dark green
E	2049A	white
F	2024AC	yellow
G	1043AB	orange
H	7145A	dark green
J	-	-
K	-	-

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

W63/4: Rear Transmission Wiring Harness (Tractor Models EAME 6830-6930; NA 7330) (Cab)



PREVIEW - YOUFIXTHIS.COM

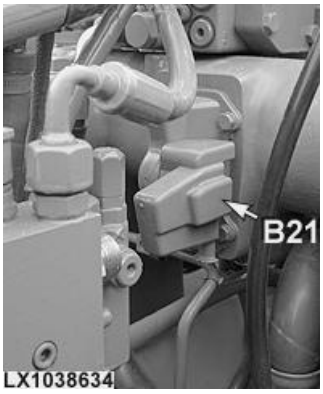
W63/4: Rear Transmission Wiring Harness (Tractor Models EAME 6830-6930; NA 7330) (Cab)

LEGEND:

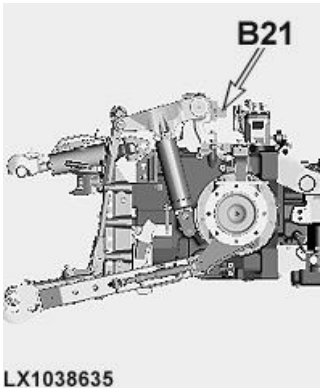
X71F	X71F - Plug of Draft Sensor
X87F	X87F - Plug of Differential Lock Solenoid Valve (Cab)

Download full manual at youfixthis.com

B21 - Hitch Position Sensor



B21 - Hitch Position Sensor



B21 - Hitch Position Sensor

Component information

Component information	
Type:	Potentiometer
Location:	Center of rockshaft housing
Connector:	X96F - Connector of Hitch Position Sensor (Cab) in Section 240, Group 105. X96F - Connector of Hitch Position Sensor (Open Operator's Station) in Section 240, Group 105.
Wiring harness:	W63, see Component Information - Wiring Harnesses - Summary of References (Cab) in Section 240, Group 110. W21, see Component Information - Wiring Harnesses - Summary of References (Open Operator's Station) in Section 240, Group 110.
Circuit:	SE15 - BCU Control Unit (Electronic Hitch Control) - Summary of References in Section 240, Group SE15.
Specifications:	Resistance: 5000 ohms Nominal voltage: 4.8 - 5.2 volts Transmittable power: 0.13 watts For more information, see: • Component check • B21 - Hitch Position Sensor, Operational Check in Section 245, Group BCU
Components:	Compact component
Task:	Registers hitch position

Component check

(1) Check the hitch position sensor (B21)

Action:

Perform a visual inspection of the hitch position sensor (B21) and of the connectors associated with it:

1. Check for signs of damage or dirt.
2. Check the electrical connections for bad, loose, widened, slid-back or corroded contacts; also check the leads.
3. Use JT05791A or JDG1478 multimeter to measure resistance at the hitch position sensor between pin C and pin B:

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

→NOTE:

The gear selector switch must be disconnected from the electrical circuit when performing continuity tests.

Continuity table, with switch at various positions

Switch not actuated	No continuity between pin A and pin B No continuity between pin A and pin C
Switch position TURTLE actuated	No continuity between pin A and pin B Continuity between pin A and pin C
Switch position HARE actuated	Continuity between pin A and pin B No continuity between pin A and pin C

Pins A and B should never indicate continuity.

Result:

YES: Test completed.

NO: Replace the component and perform an operational check.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Battery checks (G01)



JT05791A/JDG1478

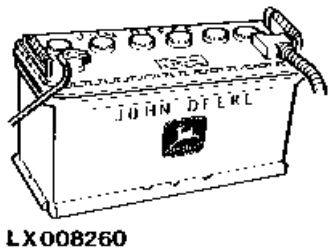
Multimeter

JT05791A/JDG1478

Testing electrical circuits and components.

(1) Check battery (G01)

Action:



Battery

CAUTION:

Read battery safety instructions in Section 210 before checking or charging the battery.

Check battery for:

- cracked case
- corroded terminals
- loose terminals or battery posts
- dirt
- moisture

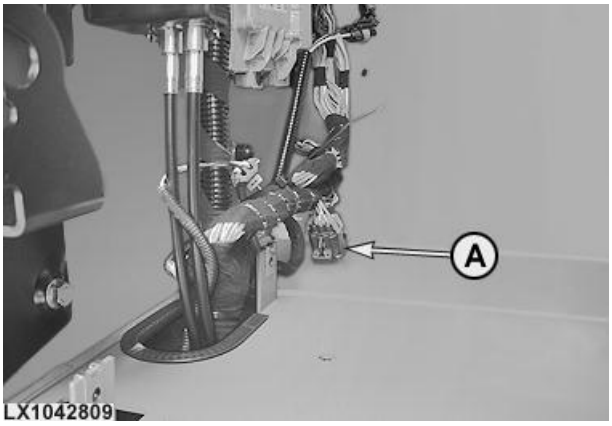
Result:

NO: Correct all abnormal conditions, then GO TO 2

(2) Check electrolyte level of all cells

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

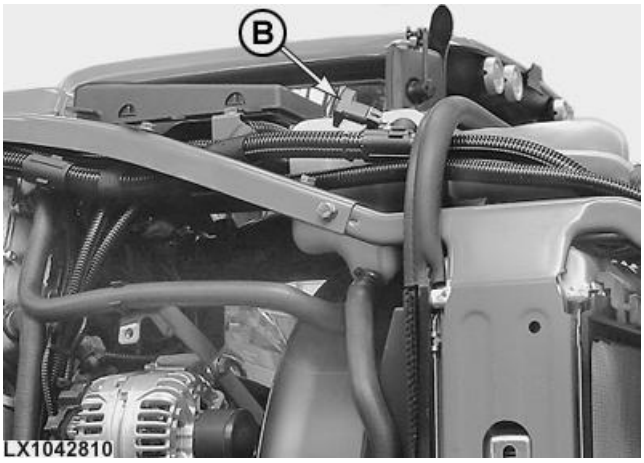


LEGEND:

A CAN BUS terminating resistor (A62) in wiring harness (W21)

B CAN BUS terminating resistor (A84) in wiring harness (W51)

6-pin terminating resistor in cab (A62)



6-pin terminating resistor above engine (A84)

For removal of terminating resistors, see “CAN BUS System” in Section 45 of the relevant Repair Manual.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CAUTION:

Perform the test only while the engine is running and with range and gear shift levers in neutral.

→NOTE:

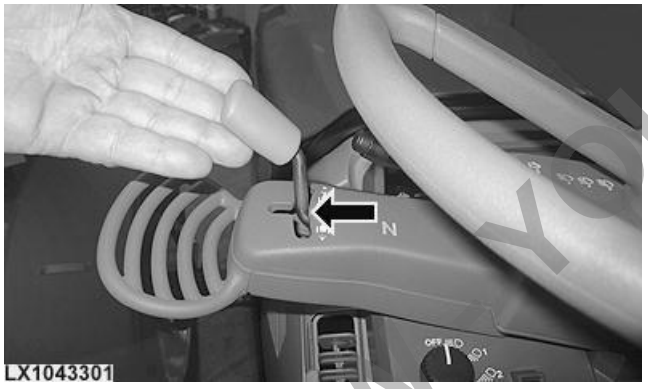
Faults in the circuit of the transmission enable solenoid valve (Y100) are displayed in address PRC006 as follows:

- **5 = open circuit**
- **6 = shorted circuit**

- Move the range-shift lever to neutral.
- Move the gear shift lever to neutral.
- Engine running.
- Access addressPRC006 .
- Make sure that the information displayed at address PRC006 complies with the following.
- Reverse drive lever in neutral position:

Item	Measurement	Specification
PRC006: Y100 - Transmission enable solenoid valve, status	Solenoid valve deactivated	0XX

- Pull reverse drive lever upward:



Pull reverse drive lever upward

Item	Measurement	Specification
PRC006: Y100 - Transmission enable solenoid valve, status	Solenoid valve activated	1XX

Result:

YES: Diagnosis completed.

NO:• Process the diagnostic trouble codes that relate to a problem in the relevant circuit.• If there are no diagnostic trouble codes, see: Y100 - Transmission Enable Solenoid Valve, Circuit/Harness Test in Section 240.

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

→NOTE:

This test can also be done using the FKM10470 pressure measurement system (stage 1).

Pressure measuring system (stage 1)

FKM10470



FKM10470 pressure measuring system (stage 1)

Pressure tests

[2] - Heat hydraulic oil to 45°C (113°F).

[3] - Close shut-off cock (B) and open shut-off cock (A).

[4] - Run the engine at 2300 rpm.

[5] - Read the pressure at the “SYSTEM” port.

[6] - Close shut-off cock (A) and open shut-off cock (B).

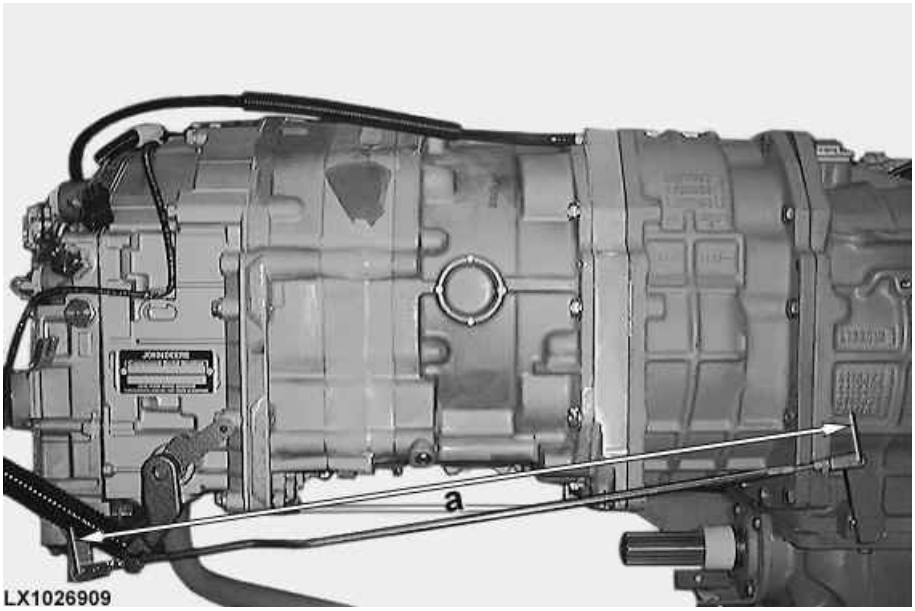
[7] - Read the pressure at the temperature sensor port.

• The difference in pressure between the two must not exceed 300 kPa (3 bar; 43.5 psi).

Item	Measurement	Specification
Difference in pressure, filter bypass valve	Difference in pressure with engine at 2300 rpm	300 kPa 3 bar 43.5 psi

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



Adjusting the reverse drive linkage

Measure the length (a) of the reverse drive linkage.

[2] - Adjust the reverse drive linkage to the specified length using the yokes as required.

Item	Measurement	Specification
Adjust reverse drive linkage, 6130-6430 Tractors without creeper or option transmission	Specified length (a)	544 mm 21.42 in.
Adjust reverse drive linkage, 6130-6430 Tractors with creeper or option transmission	Specified length (a)	711 mm 28.00 in.
Adjust reverse drive linkage, 6530-6630 Tractors without creeper or option transmission	Specified length (a)	561 mm 22 in.
Adjust reverse drive linkage, 6530-6630 Tractors with creeper or option transmission	Specified length (a)	728 mm 28.66 in.

PREVIEW - YOUFIXTHIS.COM

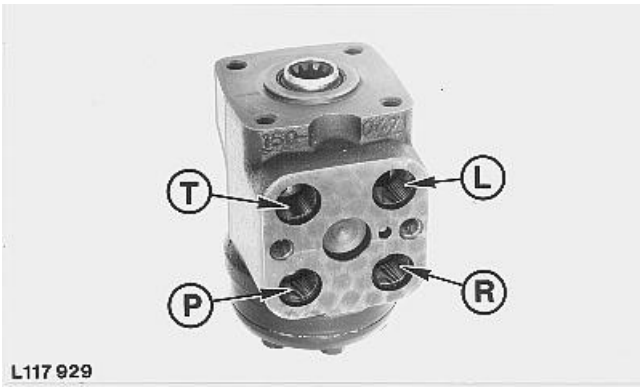
Download full manual at youfixthis.com

- OSPF 125 LS
  [See the steering valve identification plate]
  (Danfoss): 4.5 turns
- OSPF 200 LS
  [See the steering valve identification plate]
  (Danfoss): 4 turns

If the number of turns exceeds the value given above, the steering valve should be repaired. See Section 60 of the relevant Repair TM.

If the number of turns does not exceed the value given above, the steering cylinder should be repaired. See Section 60 of the relevant Repair TM or the Front-Wheel Drive Axle CTM.

Steering valve hydraulic connections



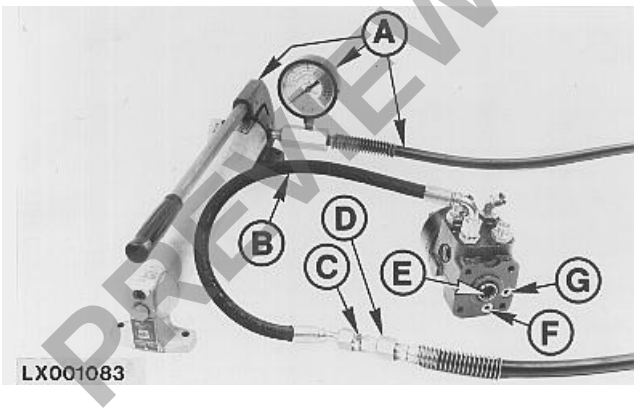
LEGEND:
P Pressure oil connection
T Return oil connection
L Connection, steering cylinder l.h. side
R Connection, steering cylinder r.h. side

Steering valve hydraulic connections

→NOTE:

For the following check it is important that connections are not mixed up.

Checking the shock valves



LEGEND:
A Hand pump D01019AA with gauge and hydraulic hose
B Hydraulic hose of steering valve
C Fitting L38860
D Fitting JT03248
E Spool
F Shock valve (right-hand lock)
G Shock valve (left-hand lock)

Checking the shock valves

Attach fittings (D) and (C) to hydraulic hose of hand pump (A). Attach hydraulic hose (B) to “R” or “L” connection of steering valve and to fitting (C).

Operate the hand pump to obtain the pressure specified below:

Item	Measurement	Specification
Checking the shock valves	Pressure	23500 - 25500 kPa 235 - 255 bar

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Result:

NO: Repair as required and carry out an operational check. ThenGO TO: 9

Action:

9.3 Priority circuit 2, maximum oil pressure too low

Possible causes:

Priority 2 valve (priority 2 control block) dirty or defective.

1. Check the priority 2 valve, see Reconditioning the Valves - Summary of References in Section 70 of the relevant Repair Manual.

TLS control block dirty or defective.

1. Check the TLS control block, see Section 80 of the relevant Repair Manual.

Shuttle valves (priority 3 control block) dirty or defective.

LS pressure relief valve (priority 3 control block) dirty or defective.

1. Check the valves, see Reconditioning the Priority 3 Control Block in Section 70 of the relevant Repair Manual.

Pressure-and-flow regulator of hydraulic pump is dirty or defective.

1. Check the regulator, see Hydraulic Pump - Reconditioning the Pressure-and-Flow Regulator in Section 70 of the relevant Repair Manual.

Hydraulic pump is defective.

1. Check the hydraulic pump, see Hydraulic Pump - Reconditioning the Hydraulic Pump in Section 70 of the relevant Repair Manual.

Result:

NO: Repair as required and carry out an operational check. ThenGO TO: 9

Action:

9.4 Priority circuit 2, maximum oil pressure too high

Possible causes:

Pressure-and-flow regulator of hydraulic pump is dirty or defective.

1. Check the regulator, see Hydraulic Pump - Reconditioning the Pressure-and-Flow Regulator in Section 70 of the relevant Repair Manual.

Hydraulic pump is defective.

1. Check the hydraulic pump, see Hydraulic Pump - Reconditioning the Hydraulic Pump in Section 70 of the relevant Repair Manual.

Result:

NO: Repair as required and carry out an operational check. ThenGO TO: 9

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

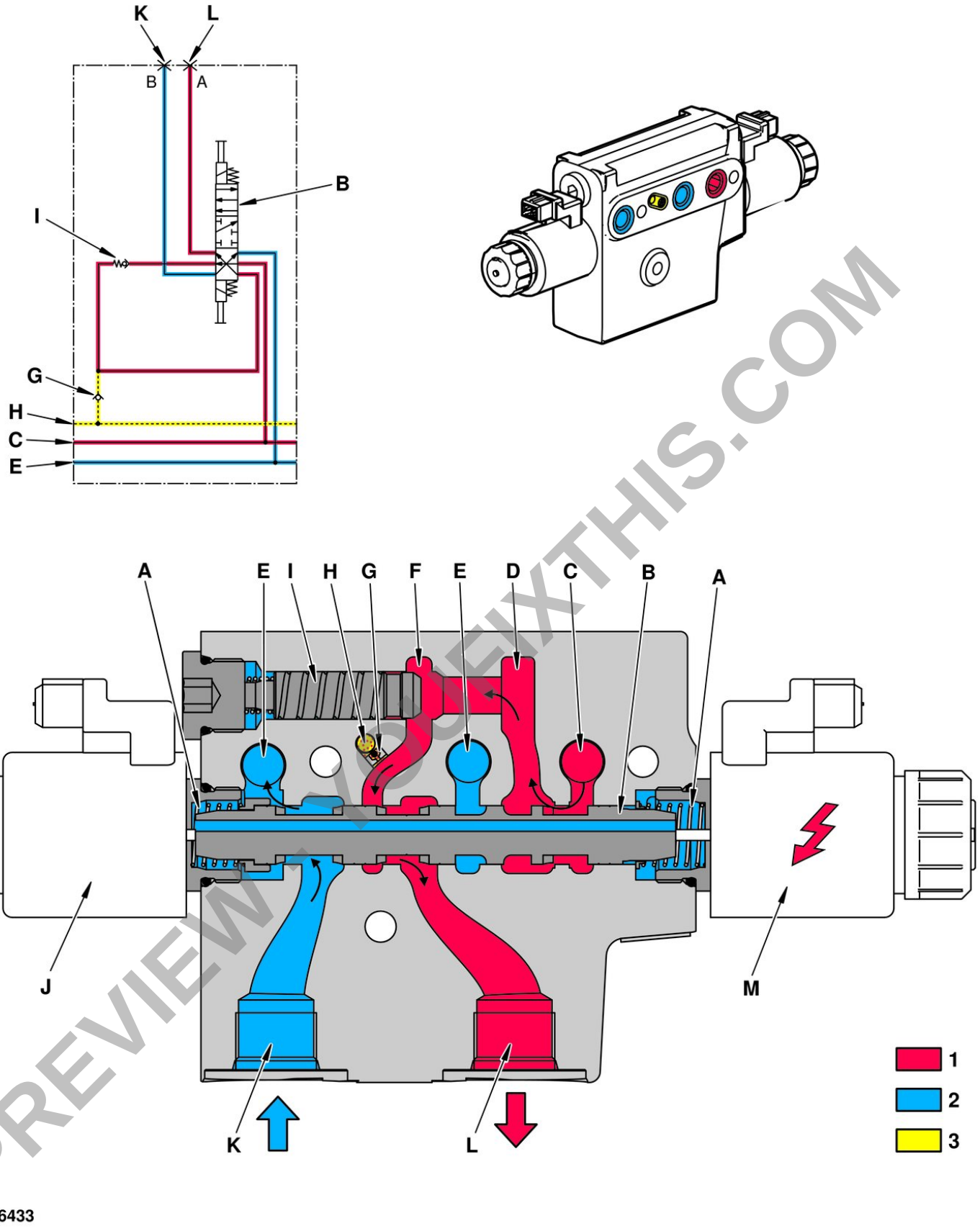
The drive shaft drives gear (F), which in turn drives the other gear (D).

As the gears rotate, the teeth that have just stopped meshing trap the oil between the gears and the housing, and oil is expelled from the outlet side. As the teeth mesh with one another again, they prevent the oil from flowing back to the inlet side.

The pump bearings are balanced hydrostatically. The two bearing plates are supported by system pressure passing through holes; this reduces the axial play of the gears, thus increasing the efficiency of the pump. At the same time, it also lubricates the pump.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



PREVIEW - 10SEIXTHIS.COM

M-ICV control valve 3 - Retract position

LEGEND:

A	Return spring
B	Spool
C	System-pressure passage
D	Connecting passage
E	Return passage
F	Connecting passage
G	Check valve

Download full manual at 10sufixthis.com

PREVIEW ONLY

You're viewing 25 of 3661 pages

The full manual includes:

- All 3661 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

John Deere 6130, 6230, 6330, 6430, 6530, 6534, 6630, 6830, 6930 Diagnostic

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual