1150K CRAWLER
Series 3

Service Manual

Bur 5-4110

CASE

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1150K CRAWLER
Repair Manual
Bur 87364101
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26 – Right Pump Solenoid

Right pump.		
Check Points	**Reading**	**Possible Cause of Bad Reading**
NOTE: *Disconnect the connector at the right pump solenoid, on connector to the main harness.*		
Terminal for wire 0, pin 1 and 4, to ground.	Less than 10 Ohm at 25° C (77° F)	Bad ground circuit.
NOTE: *On connector to the solenoid.*		
Between terminals 1 and 2	5.75 ±0.75 Ohm at 25° C (77° F)	Bad forward solenoid
Between terminals 3 and 4	5.75 ±0.75 Ohm at 25° C (77° F)	Bad reverse solenoid

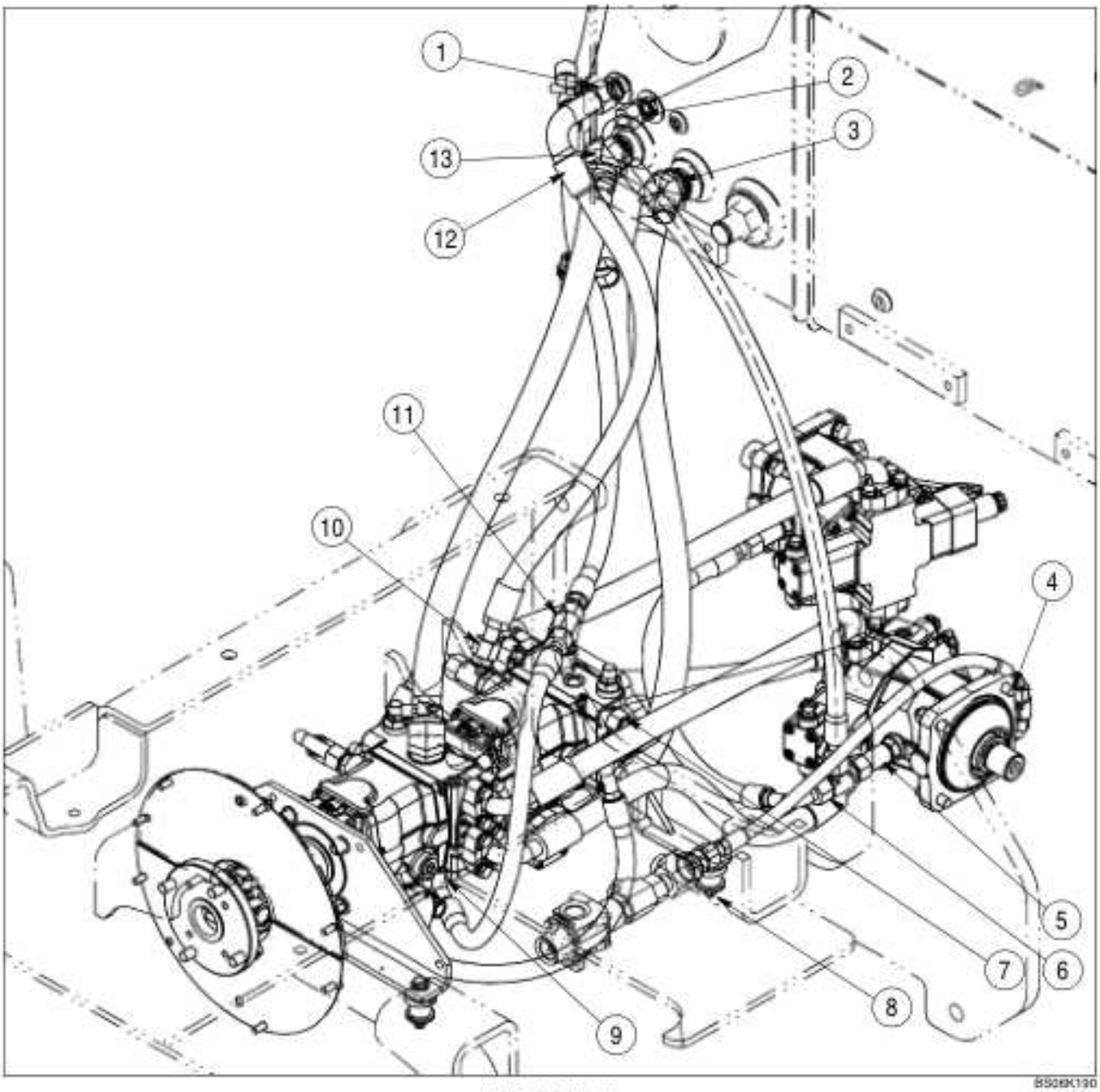
27 – Left Motor Solenoid

Left motor.		
Check Points	**Reading**	**Possible Cause of Bad Reading**
NOTE: *Disconnect the connector at the left motor solenoid, on connector to the main harness.*		
Terminal for wire 0, pin 2, to ground.	Less than 10 Ohm at 25° C (77° F)	Bad ground circuit.
NOTE: *On connector to the solenoid.*		
Between terminals 1 and 2	5.75 ±0.75 Ohm at 25° C (77° F)	Bad solenoid

28 – Right Motor Solenoid

Right motor.		
Check Points	**Reading**	**Possible Cause of Bad Reading**
NOTE: *Disconnect the connector at the right motor solenoid, on connector to the main harness.*		
Terminal for wire 0, pin 2, to ground.	Less than 10 Ohm at 25° C (77° F)	Bad ground circuit.
NOTE: *On connector to the solenoid.*		
Between terminals 1 and 2	5.75 ±0.75 Ohm at 25° C (77° F)	Bad solenoid

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LEFT SIDE VIEW

1. CONNECTOR TORQUE TO 75 - 108 NM (55 - 80 FT-LBS)
2. CONNECTOR TORQUE TO 75 - 108 NM (55 - 80 FT-LBS)
3. STEM 45° TORQUE TO 163 - 224 NM (120 TO 165 FT-LBS)
4. BOLT APPLY LOCTITE 243 TORQUE TO 250 - 280 NM (183 - 210 FT-LBS)
5. CONNECTOR LONG TORQUE TO 75 - 108 NM (55 - 80 FT-LBS)
6. 'T' FITTING TORQUE TO 90 - 95 NM (65 - 70 FT LBS)
7. CONNECTOR TORQUE TO 35 - 54 NM (25 - 40 FT-LBS)
8. MOUNTING NUTS TORQUE TO 68 - 81 NM (50 - 60 FT-LBS)
9. CHARGE PUMP OUT TORQUE TO 90 - 95 NM (65 - 70 FT LBS)
10. HOSE CASE DRAIN TORQUE TO 90 - 95 NM (65 - 700 FT-LBS)
11. 'T' FITTING TORQUE TO 90 - 95 NM (65 - 700 FT-LBS)
12. HOSE FLANGE TORQUE TO 125 - 135 NM (92 - 100 FT-LBS)

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FAULT 4522

Bump Down Switch Stuck On at Power Up

Condition:

The Instrument Cluster is indicating that the Maximum Speed setting is decreasing, when Bump Down Switch is not being commanded.

Possible Failure Modes:

1. Connectors not mated fully, pins not pushed into connector fully, bent pin or broken wire at rear of connector.
2. Button is mechanically stuck
3. Wiring or switch circuits shorted
4. Failed Drivetrain Control Module

NOTE: *Go to the Electrical Schematic for a complete view of the controller circuit.*

STEP 1

Find out if the fault code is still active.

A. Turn ignition switch to RUN position to power drivetrain controller.

B. Clear all fault codes from the controller.

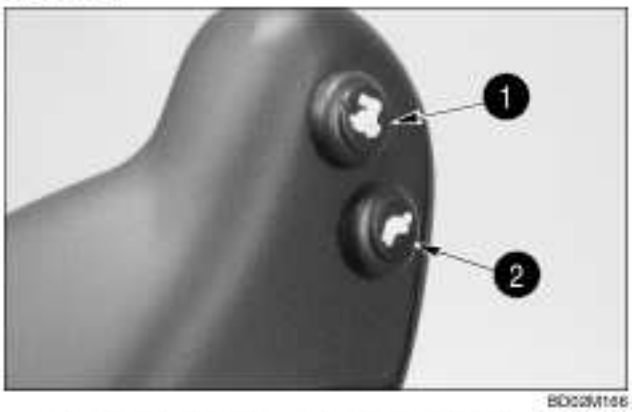
NOTE: *Prior to clearing fault codes write down all fault codes, number of occurrences, and engine hours at last occurrence.*

C. To check for fault code: Move directional control to neutral, ignition switch to run (engine does not need to be running), move both parking levers to down position, move hand throttle to high idle position, and push directional control to forward position.

NOT OK – Fault code 4522 is recorded again. Go to Step 2.

OK – Fault is not recorded again. Ok for return to service.

STEP 2



BDC2M166

1. BUMP UP SWITCH 2. BUMP DOWN SWITCH

Inspect the Bump Down Switch Connection.

A. Turn ignition switch and master disconnect off.

B. Check for button mechanically stuck.

C. Clear buttons of any foreign debris.

NOT OK – Return to Step 1 to confirm elimination of fault.

OK – Go to Step 3.

STEP 3

Check for open circuit in the Bump Down Switch.

A. Disconnect the Bump Down Switch Connector.

B. Check wiring and connector for Bump Down Switch.

NOT OK – Replace handle and button, and return to Step 1 to confirm elimination of fault.

OK – Go to Step 4.

STEP 4

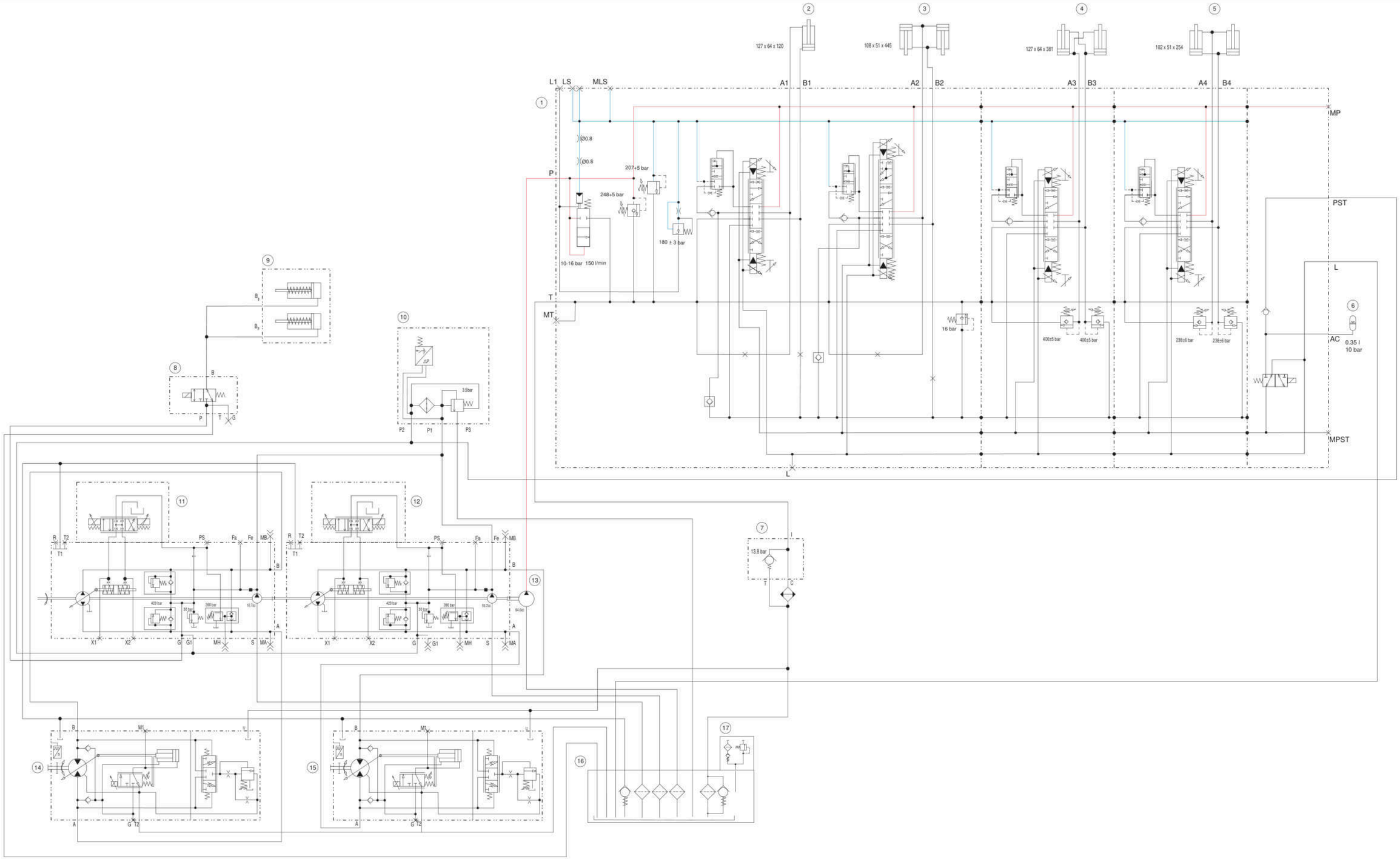
Replace the Drivetrain Control Module.

A. Remove and replace Drivetrain Control Module.

B. Write symptom on failed Drivetrain Control Module.

C. Install program with Electronic Service Tool (EST) and recalibrate system.

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COMPONENTS

1. FOUR-SPOOL VALVE
2. TILT CYLINDER
3. LIFT CYLINDERS
4. ANGLE CYLINDERS
5. RIPPER CYLINDERS
6. ACCUMULATOR
7. COOLER BYPASS VALVE
8. BRAKE SOLENOID VALVE ASSEMBLY
9. FINAL DRIVE BRAKE ASSEMBLIES
10. HYDROSTATIC FILTER ASSEMBLY
11. HYDROSTATIC PUMP ASSEMBLY LEFT
12. HYDROSTATIC PUMP ASSEMBLY RIGHT
13. EQUIPMENT PUMP
14. LEFT HYDROSTATIC MOTOR
15. RIGHT HYDROSTATIC MOTOR
16. RESERVOIR
17. BREATHER

NOTES

1. HYDRAULIC AND HYDROSTATIC SYSTEMS USE ONE COMMON RESERVOIR.

HYDRAULIC SYMBOLS

COMPONENT
CROSSING LINES
CHECK VALVE
FILTER OR SCREEN
HYDRAULIC PRESSURE
PILOT PRESSURE
LINE CONNECTION
RESTRICTOR
OIL COOLER

HYDRAULIC SCHEMATIC
1150K SERIES 3 DOZER

Additional copies of this Hydraulic and Electrical Schematic can be ordered through Technical Publications Distribution System. The Part Number is 5-4550

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