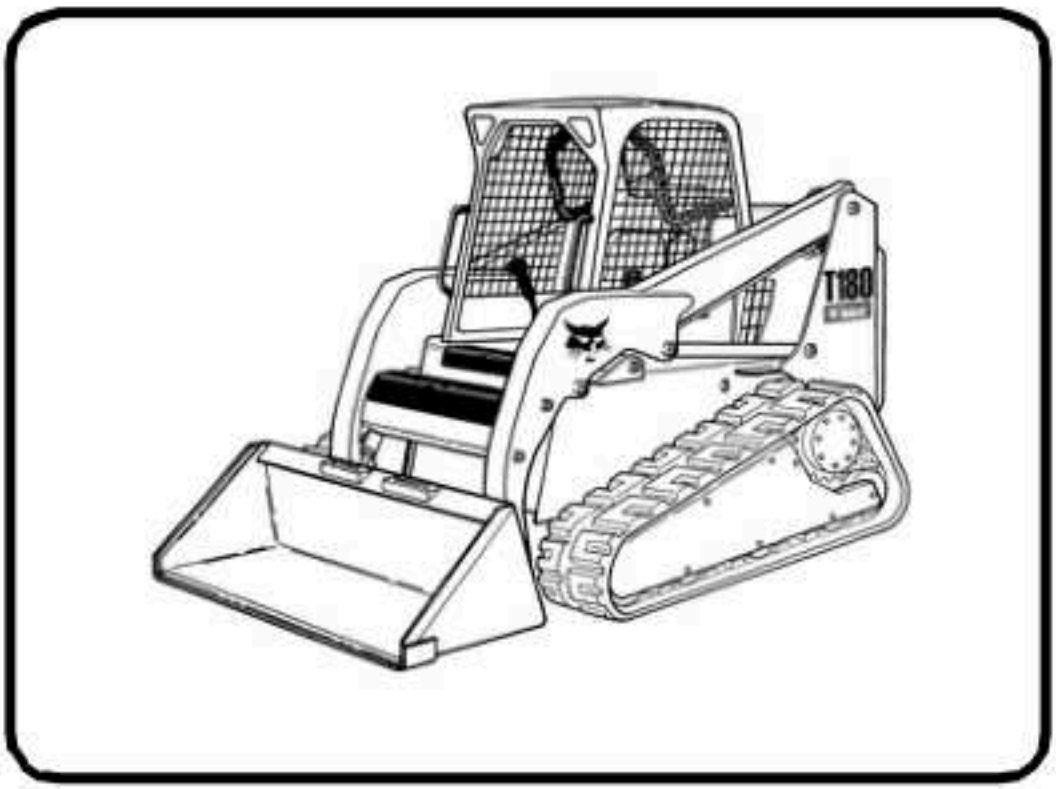
Bobcat®

Service Manual
T180 Compact Track Loader

S/N 531411001 - 531459999
S/N 531511001 - 531559999



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS)

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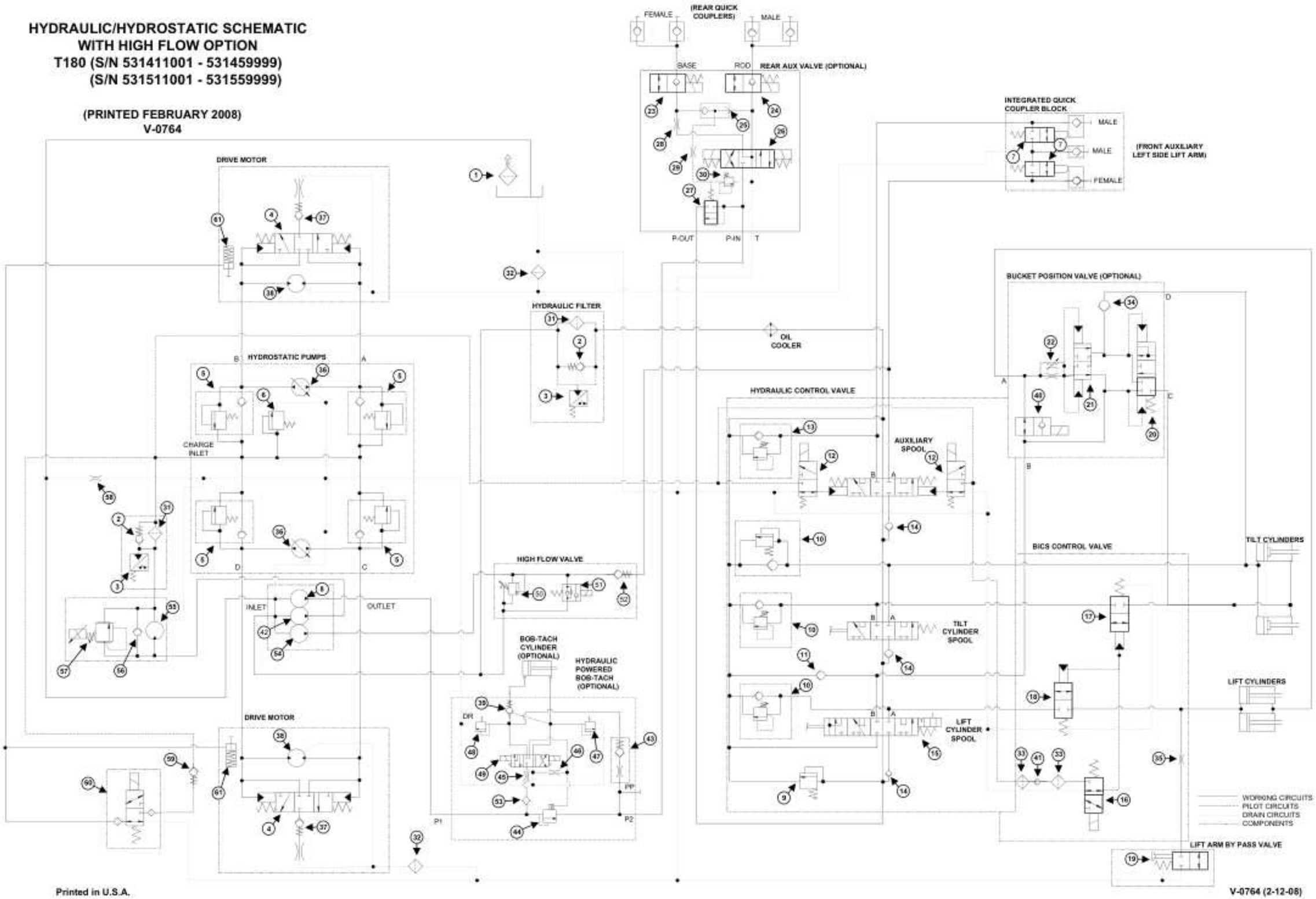
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HYDRAULIC/HYDROSTATIC SCHEMATIC
WITH HIGH FLOW OPTION
T180 (S/N 531411001 - 531459999)
(S/N 531511001 - 531559999)

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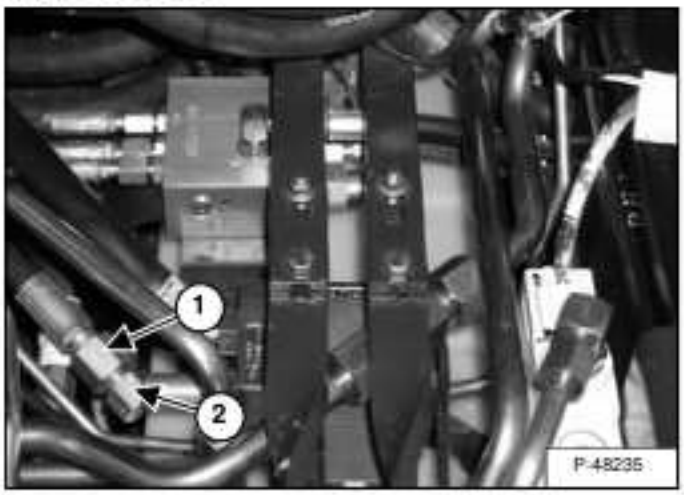
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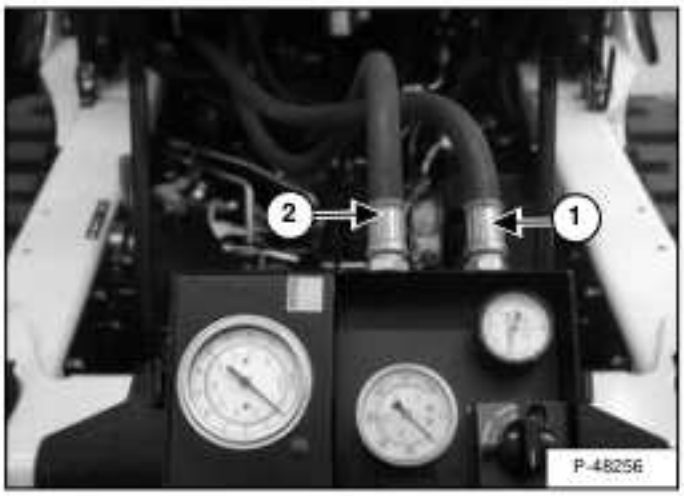
Direct Pump Test (High Flow Section) (Cont'd)

Figure 20-71-166



Disconnect the high flow pump OUTLET hose (Item 1) from the high flow valve INLET fitting (Item 2) **[Figure 20-71-166]**.

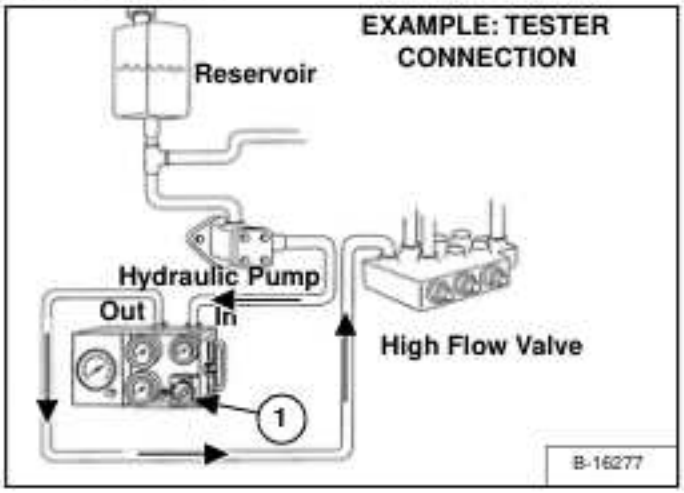
Figure 20-71-167



Connect the INLET hose (Item 1) **[Figure 20-71-167]** from the tester, to the high flow pump OUTLET hose (Item 1) **[Figure 20-71-166]**. Connect the OUTLET hose (Item 2) **[Figure 20-71-167]** from the tester, to the high flow valve INLET fitting (Item 2) **[Figure 20-71-166]** on the High Flow valve.

Lower the cab.

Figure 20-71-168



Sample tester connection shown **[Figure 20-71-168]**.

Start the engine and run at low idle RPM. Press the front auxiliary button. Press the High Flow button. Push the button (on the right control lever) for fluid flow to the quick coupler. Make sure the tester is connected correctly. If no flow is indicated on the tester, the hoses are connected wrong. With the hoses connected correctly, increase the engine speed to full RPM*.

Warm the fluid to 140°F. (60°C.) by turning the restrictor control (Item 1) **[Figure 20-71-168]** on the tester to about 1000 PSI (6895 kPa).

NOTE: DO NOT EXCEED 3300 PSI.

Open the restrictor control and record the free flow (GPM) at full RPM. Turn the restrictor control on the tester to 3300 PSI and the flow should go to zero GPM.

If pressure readings are not obtained go to the High Flow Valve, relief valve adjustment procedure.(See High Flow Relief Valve Adjustment on Page 20-150-2.)

Record the highest pressure (PSI) and flow (GPM). The high pressure flow must be at least 80% of free flow.

$$\%= \frac{\text{HIGH PRESSURE FLOW (GPM)}}{\text{FREE FLOW (GPM)}} \text{ X100}$$

A low percentage may indicate a failed pump.

*Refer to *Hydraulic Schematics* Legend for system relief pressure and full RPM.

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Troubleshooting

The following troubleshooting chart is provided for assistance in locating and correcting BICS system problems. It is recommended that these procedures be done by authorized Bobcat Service Personnel only.

⚠ WARNING

Check for correct function after adjustments, repairs or service. Failure to make correct repairs or adjustments can cause injury or death.

W-2004-1285

PROBLEM	SOLUTION#
Traction lock stays engaged.	1, 2, 3, 4, 5, 6,7,11
Intermittent activation of traction lock.	8, 9,10,11

SOLUTION SUGGESTIONS

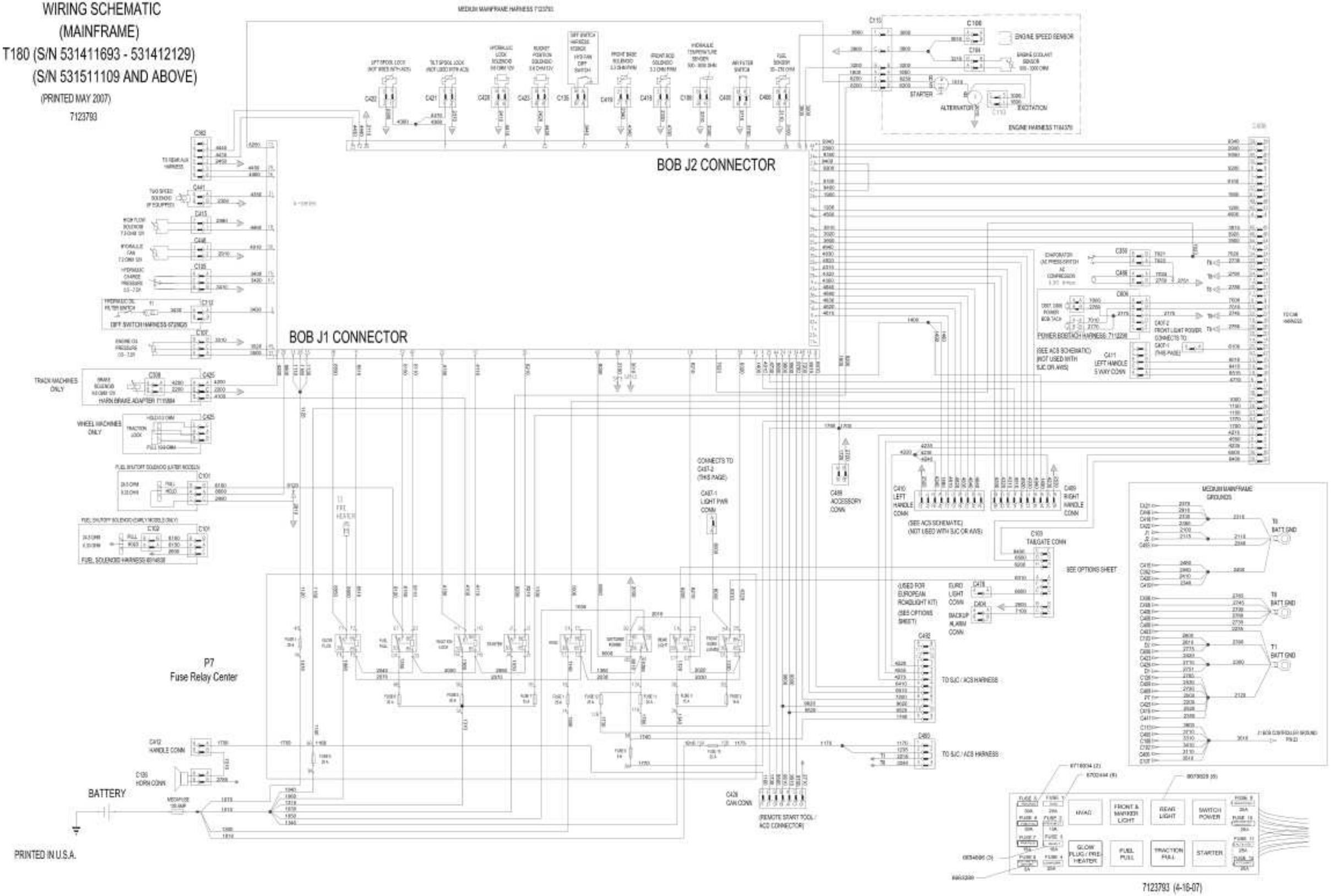
1. Make sure brake switch is not engaged.
2. Check the dash display for an error code. (See Electircal System Service Manual.)
3. If all the lights indicate the brake should be released, but it doesn't, check the brake 30 amp. fuse.
4. When checking the fuse, also check other fuses. Check the fuse block for correct orientation and location of fuses. (See Electrical System Service Manual)
5. Test the solenoid, the coil should be about 9.8 ohms.
6. Check brake solenoid wiring voltage, solenoid wiring should read 12 volts.
7. Check the brake solenoid mounting nut for correct torque.
8. Check wire connections for loose connector body.
9. Check for loose or bent pins in connectors.
10. Check for loose spade connectors in fuse holder.
11. Check flywheel RPM Sensor and wiring.

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WIRING SCHEMATIC
(MAINFRAME)
T180 (S/N 531411693 - 531412129)
(S/N 531511109 AND ABOVE)

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