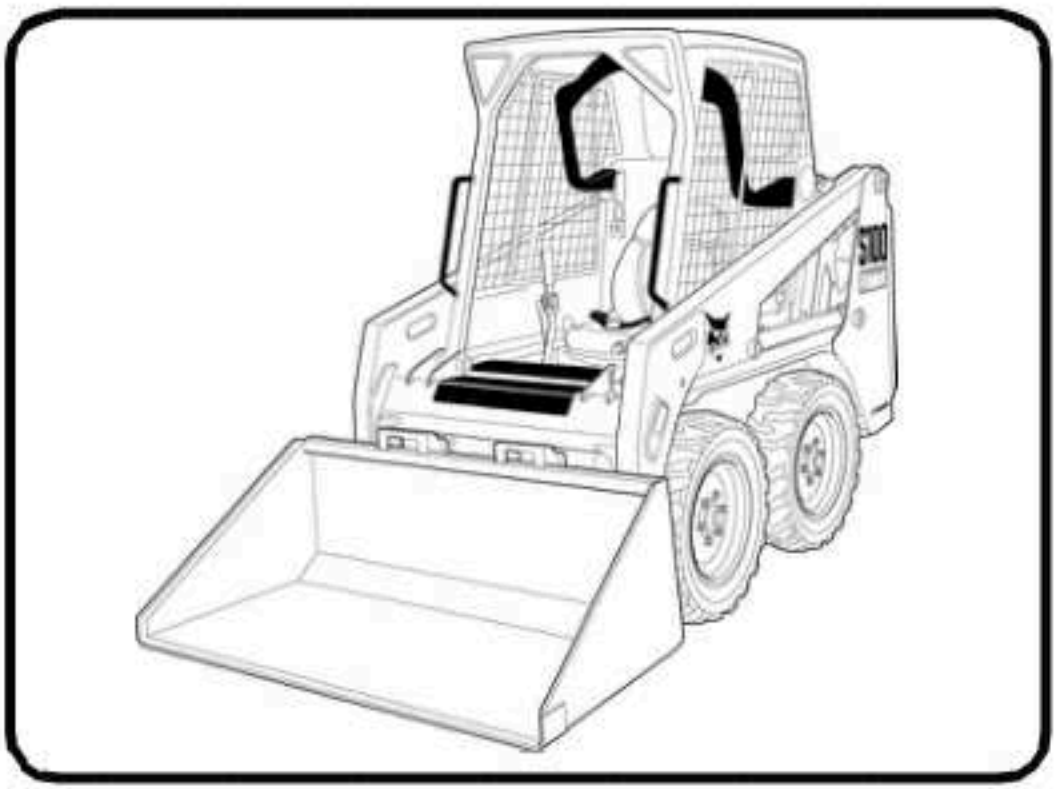
Bobcat®

Service Manual
S100 Skid-Steer Loader

S/N AB6411001 - AB6419999



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

6987131 (4-11)

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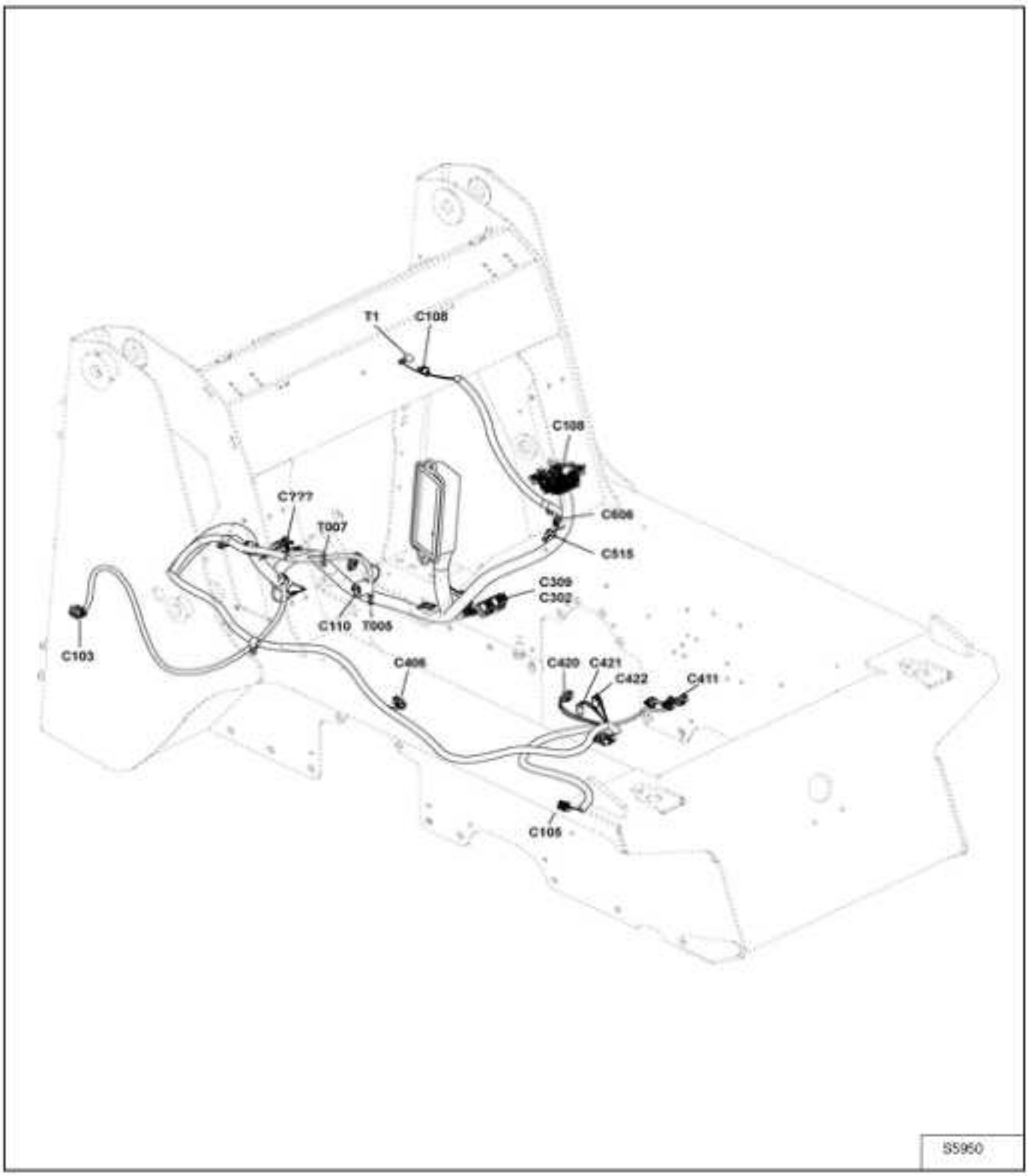
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Mainframe Harness Connectors

Figure 60-10-2



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Specifications (Cont'd)

All dimensions are given in millimeters. Respective imperial dimensions are given in inches enclosed by parentheses.

Crankshaft

Crankshaft Alignment Allowable Limit	0,02 mm (0.0008 in)
Oil Clearance Between Journal And Bearing #1	0,034 -0,114 mm (0.0013 - 0.0045 in)
Allowable Limit	0,2 mm (0.008 in)
Journal O.D. #1	47,934 - 47,950 mm (1.8872 - 1.8877 in)
Bearing I.D. #1	47,984 - 48,048 mm (1.8891 - 1.8917 in)
Oil Clearance Between Journal And Bearing #2	0,034 - 0,095 mm (0.0014 - 0.0037 in)
Allowable Limit	0,2 mm (0.0079 in)
Journal O.D. #2	47,934 - 47,950 mm (1.8872 - 1.8877 in)
Bearing I.D. #2	47,984 - 48,029 mm (1.8892 - 1.8909 in)
Oil Clearance Between Crank Pin And Bearing	0,029 - 0,091 mm (0.0012 - 0.0035 in)
Allowable Limit	0,2 mm (0.0079 in)
Crank Pin O.D.	30,059 - 39,975 mm (1.5732 - 1.5738 in)
Crank Pin Bearing I.D.	40.044 - 40.500 mm (1.5764 - 1.5767 in)
Crankshaft Side Clearance	0,15 - 0,35 mm (0.0059 - 0.012 in)
Allowable Limit	0,5 mm (0.020 in)

Timing Gear

Timing Gear Backlash:	
Crank Gear - Idle Gear	0,032 - 0,115 mm (0.00126 - 0.00452 in)
Idle Gear - Cam Gear	0,036 - 0,114 mm (0.00142 - 0.00448 in)
Idle Gear - Injection Pump Gear	0,034 - 0,116 mm (0.00134 - 0.00456 in)
Crank Gear - Oil Pump Gear	0,042 - 0,109 mm (0.0016 - 0.0043 in)
Allowable Limit	0,15 mm (0.0059 in)
Clearance Between Idle Gear Shaft And Idle Gear Bushing	0,020 - 0,054 mm (0.00079 - 0.0021 in)
Allowable Limit	0,10 mm (0.0039 in)
Idler Gear Side Clearance	0,20 - 0,51 mm (0.0079 - 0.0201 in)

Thermostat

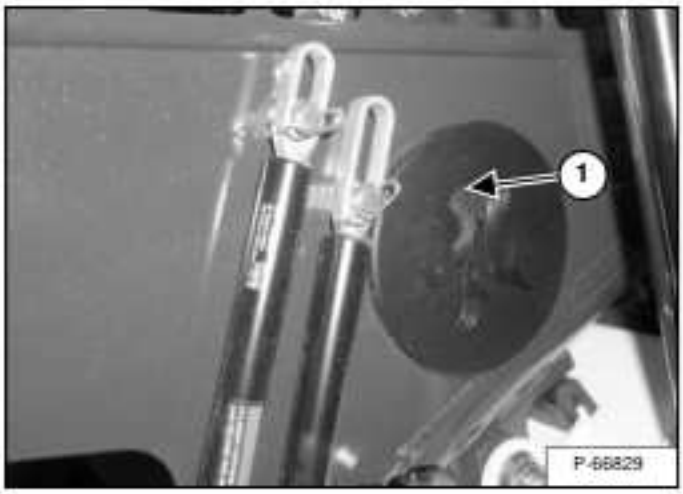
Valve Opening Temperature	69.5 - 72.5°C (157.1 - 162.5°F)
Valve Fully Open	85°C (185°F)

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Electrical System

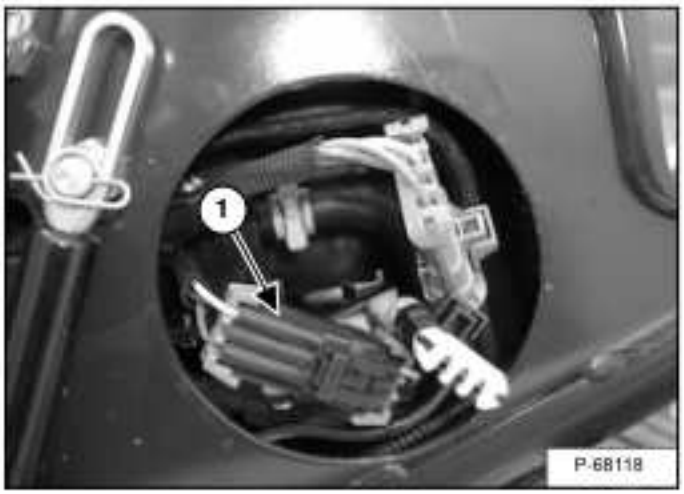
NOTE: The key must be put in the ON position when checking for power in circuits.

Figure 80-30-1



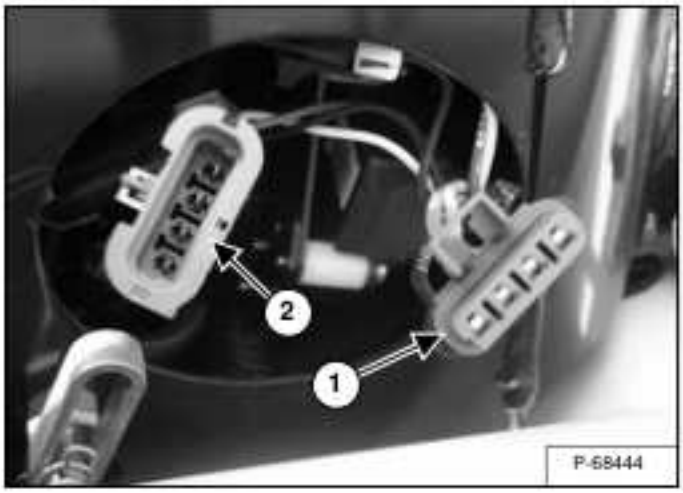
Remove the access cover (Item 1) **[Figure 80-30-1]** from the operator cab.

Figure 80-30-2



Disconnect the blower fan wiring connector (Item 1) **[Figure 80-30-2]** from the loader wiring harness.

Figure 80-30-3



Check the loader harness (Item 1) **[Figure 80-30-3]** for voltage. The voltage should be 12 volts.

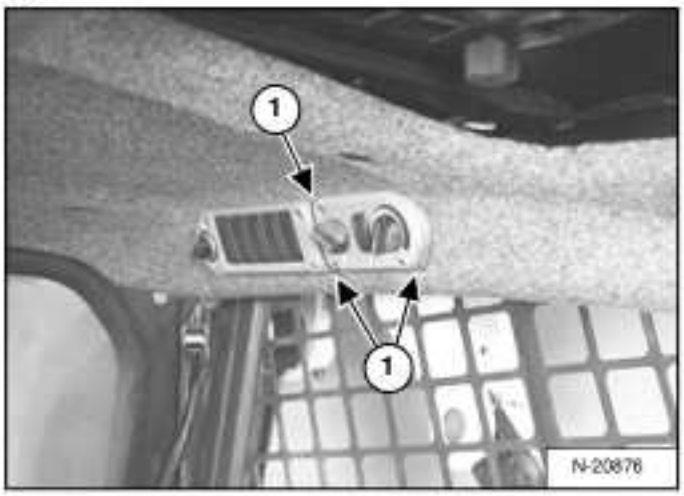
If there is no voltage at the wiring harness, check the harness for broken wires or blown fuse.

If there is voltage at the wiring harness, check the resistance to the blower fan at the blower fan wiring connector (Item 2) **[Figure 80-30-3]**.

If there is no resistance value replace the blower fan.

If there is a resistance value check the climate controls at the control panel inside the loader cab.

Figure 80-30-4



Remove the three mount screws (Item 1) **[Figure 80-30-4]** from the cab control panel.

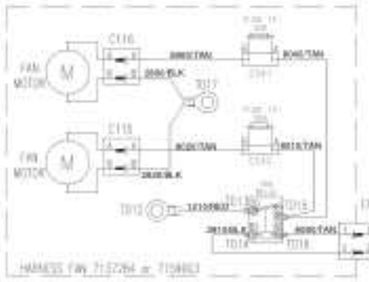
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ELECTRICAL SCHEMATIC

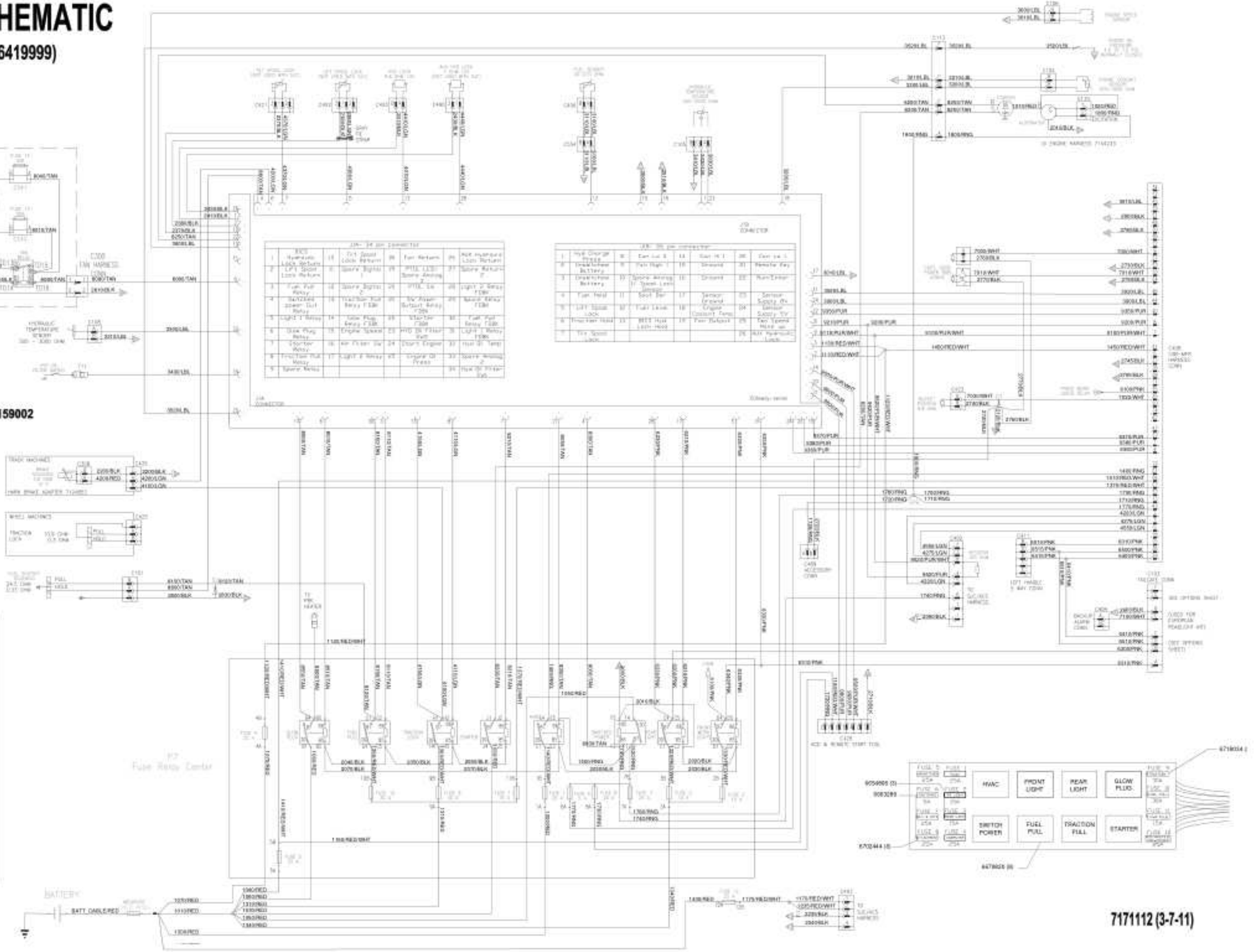
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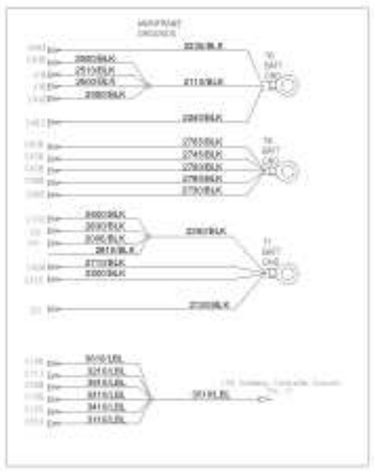
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