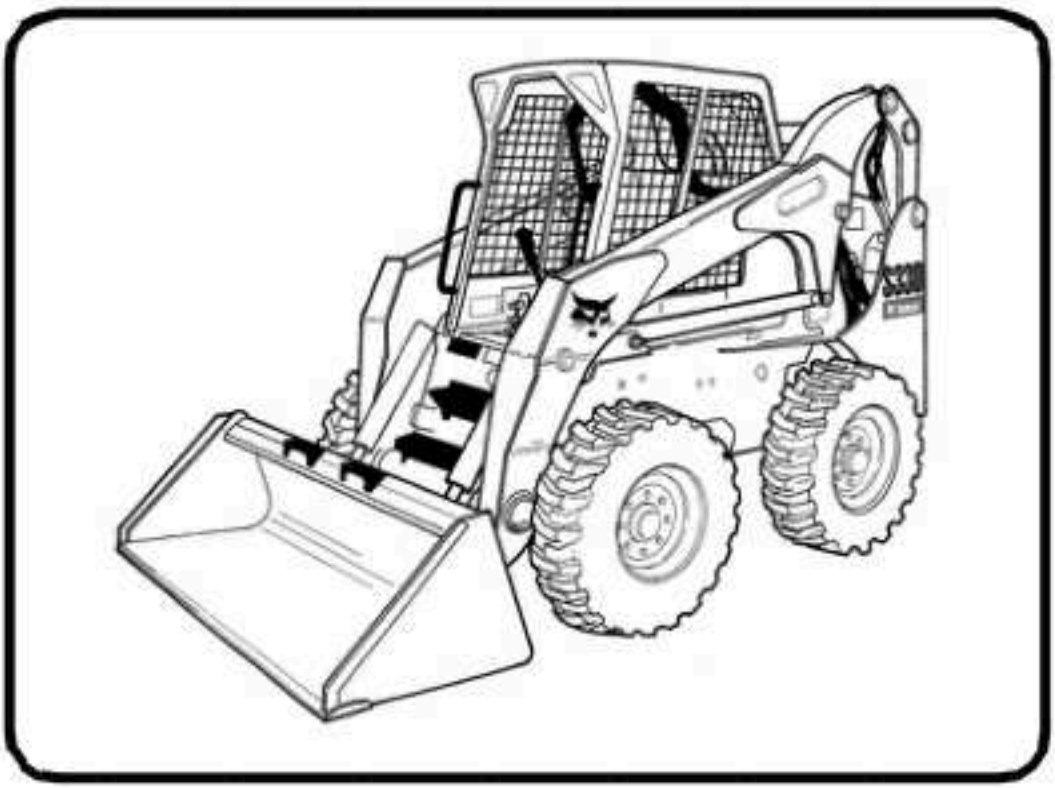
Bobcat®

Service Manual
S330 Skid-Steer Loader

S/N A02060001 & Above
S/N A02160001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6986681 (3-09)

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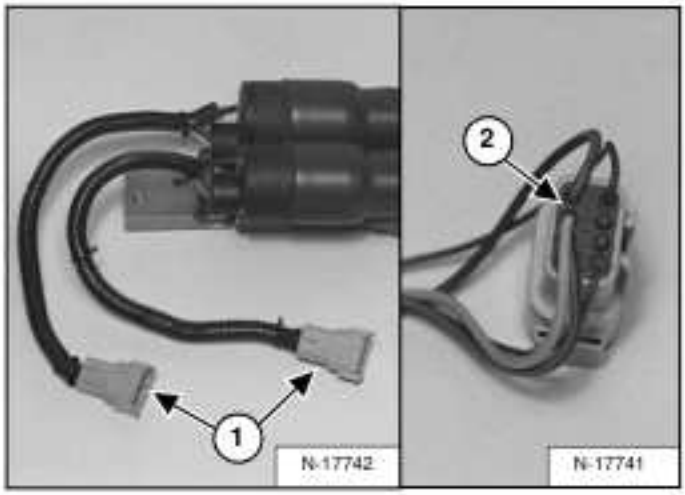
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Actuator Connector Disassembly And Assembly (Cont'd)

Figure 60-130-23



Check the actuator wiring harness connector (Item 1) **[Figure 60-130-23]** and replace if broken.

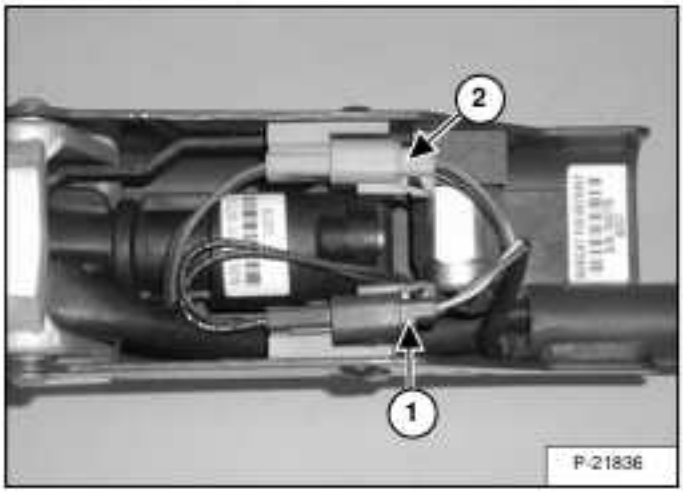
Installation: Install the wires into the connector as listed below. The terminal numbers are written on the back of the connector (Item 2) **[Figure 60-130-23]**.

Lift and Tilt Actuator
1 - Terminal-Black/Green-Larger dia. wire (16 gauge)
2 - Terminal-Green-Larger diameter wire (16 gauge)
3 - Terminal-Red/Green-Larger diameter wire (16 gauge)
4 - Terminal-Open
5 - Terminal-Red-Smaller diameter wire (18 gauge)
6 - Terminal-Open
7 - Terminal-Open
8 - Terminal-Black-Smaller diameter wire (18 gauge)

NOTE: The calibration procedure must be followed when replacing a handle sensor, foot pedal sensor, actuator or ACS Controller. (See Lift And Tilt Calibration (ACS) on Page 60-160-11.)

Handle Lock Solenoid Removal And Installation

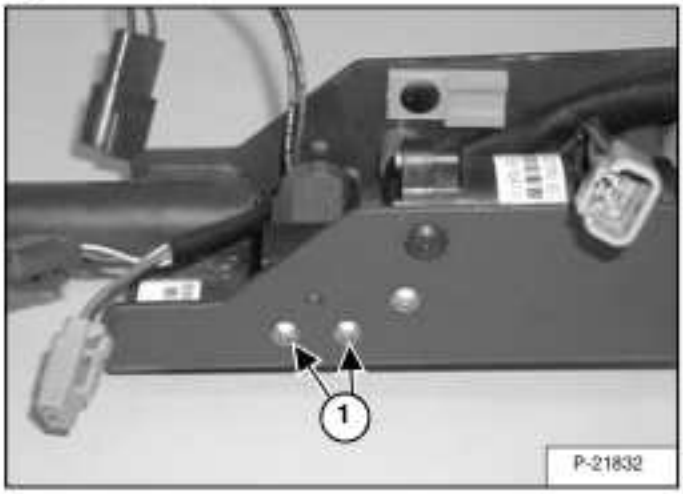
Figure 60-130-24



Disconnect the harness connector (Item 1) **[Figure 60-130-24]** from the handle sensor connector.

Disconnect the harness connector (Item 2) **[Figure 60-130-24]** from the handle lock solenoid connector.

Figure 60-130-25



Remove the two screws (Item 1) **[Figure 60-130-25]** holding the handle lock solenoid to the handle.

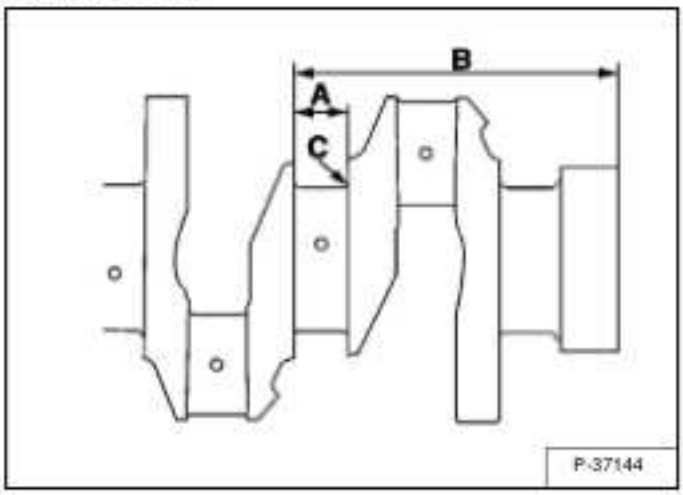
Installation: Tighten the screws to 32 - 38 in.-lb. (3,6 - 4,3 N•m) torque.

Remove handle lock solenoid assembly from handle.

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Crankshaft And Bearings - Servicing (Cont'd)

Figure 70-90-38



If the same size bearing can not be used because of the crankshaft journal wear, replace it with an oversized one referring to the table and **[Figure 70-90-38]**.

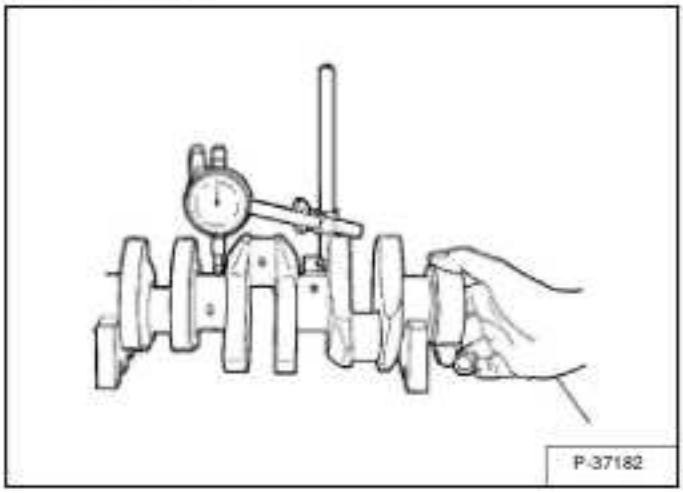
Oversize thrust bearing

Oversize	Bearing	Code Number	Marking
0.008 in. (0,2 mm)	Thrustbearing 1 02	1C010-23951	020 OS
	Thrustbearing 2 02	1C010-23971	020 OS
0.016 in. (0,4 mm)	Thrustbearing 1 04	1C010-23961	040 OS
	Thrust bearing1 04	1C010-23981	040 OS

Oversize dimensions of crankshaft journal.

Oversize	0.008 in. (0,2 mm)	0.016 in. (0,4 mm)
Dimension A	1.1496 - 1.1515 in. (29,20 - 29,25 mm)	1.1574 - 1.1594 in. (29,40 - 29,45 mm)
Dimension B	6.6575 - 6.6594 in. (169,1 - 169,15 mm)	6.6614 - 6.6634 in. (169,2 - 169,25 mm)
Dimension C	0.1102 - 0.1260 in. radius (2,8 - 3,2 mm radius)	0.1102 - 0.1260 in. radius (2,8 - 3,2 mm radius)
The crankshaft journal must be fine-finished to higher than (0.8-S)		

Figure 70-90-39



Support the crankshaft with V block on the surface plate and set a dial indicator with its tip on the intermediate journal at right angle **[Figure 70-90-39]**.

Rotate the crankshaft on the V block and get the misalignment (half of the measurement).

If the misalignment exceeds the allowable limit, replace the crankshaft.

Crankshaft alignment	Allowable limit	0.00079 in. (0.02 mm)

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Poor A/C Performance

Start the loader, lock the park brake, and engage the A/C system with the blower fan on High. Run the loader at full throttle for approximately 15 minutes, with the loader cab door closed.

Figure 80-30-1

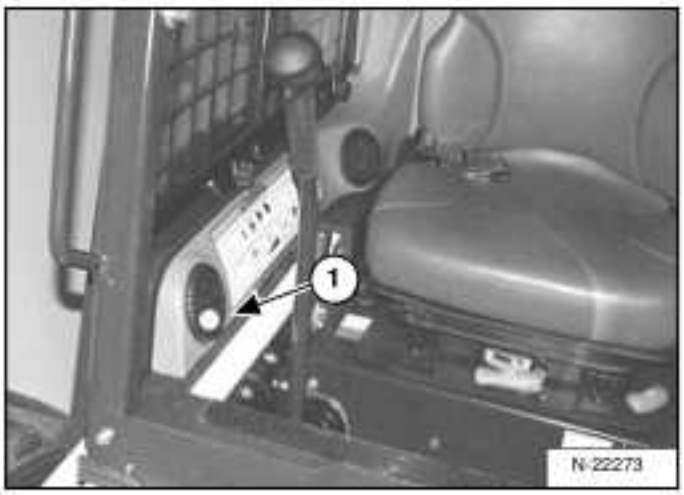
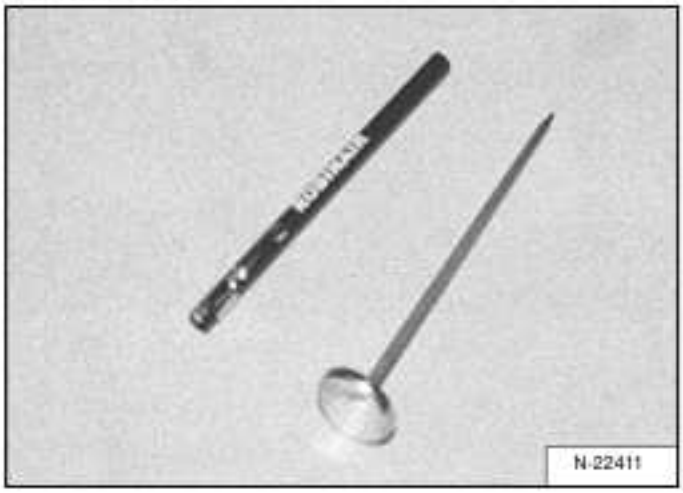


Figure 80-30-2



Check the temperature at the louvers (Item 1) **[Figure 80-30-1]** with a thermometer **[Figure 80-30-2]**.

The louver temperature should be between 45-53° F. (2,2-11,6° C) depending on the amount of humidity in the air and ambient temperature.

If louver temperature is too high. (See Troubleshooting Tree on Page 80-30-4.)

Check the blower for proper operation, or noise, and replace if necessary. (See Removal And Installation on Page 80-130-1.)

Check the belt tension on the A/C compressor. (See REGULAR MAINTENANCE on Page 80-20-1.)

Check the A/C condenser for dirt or mud and clean if necessary. (See Removal And Installation on Page 80-60-1.)

Check the A/C evaporator coil for dirt or mud and clean if necessary. (See Removal And Installation on Page 80-110-1.)

Check the engine coolant to see if it is bypassing the heater valve. (See Engine Coolant Bypassing The Heater Valve on Page 80-30-19.)

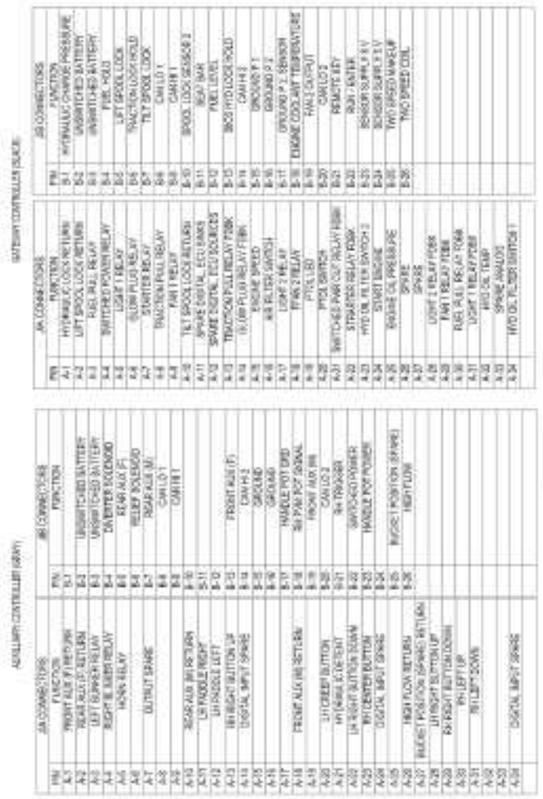
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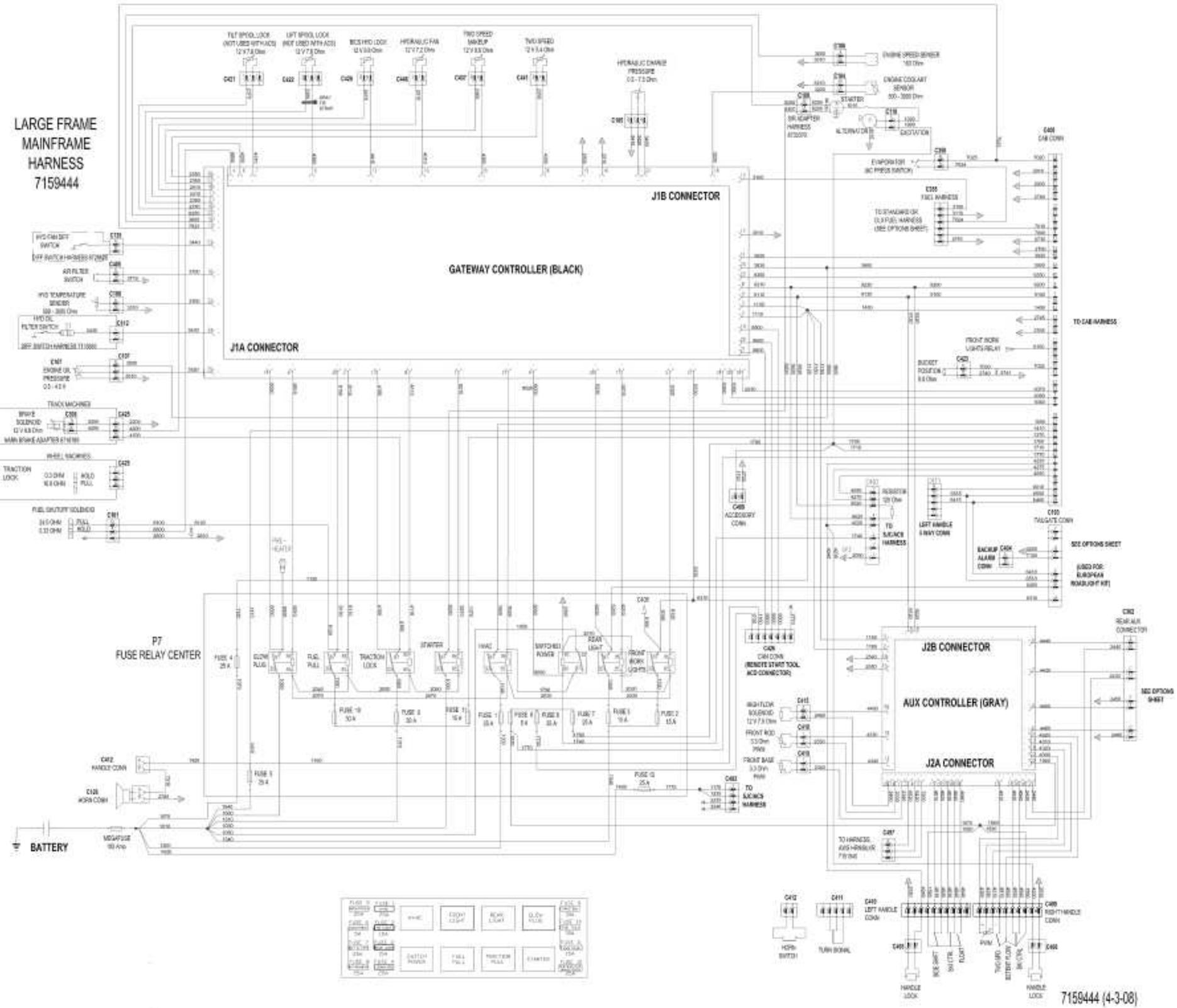
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