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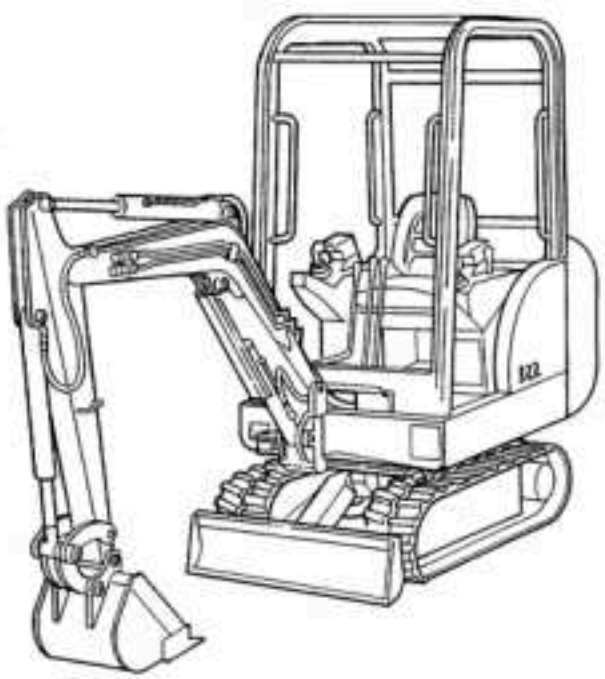
Bobcat®

Service Manual

320/320L (S/N 223811001 & Above)

322 (S/N 223511001 & Above)

(D Series)



Bobcat

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Troubleshooting Chart (Cont'd)

TROUBLESHOOTING THE CYLINDER CIRCUIT		
PROBLEM	**CAUSE**	**CORRECTION**
Cylinder inoperable.	Control console(s) raised.	Lower control console.
	Loose fittings or broken hoses.	Repair or replace.
	Lever linkage misadjusted.	Readjust.
	Control console lockout switch.	Readjust or replace.
	Cylinder internal leakage excessive.	Repair or replace.
	Control lever (joystick) manifold solenoid coil defective.	Test, repair or replace.
	Control lever (joystick) manifold solenoid valve defective.	Test, repair or replace.
	Control lever (joystick) manifold pressure reducing valve defective.	Test, repair or replace.
	Control lever (joystick) internal leakage excessive.	Repair or replace.
Cylinder Force insufficient.	Main relief valve pressure too low.	Readjust or replace.
	Work port relief pressure too low.	Readjust or replace.
Cylinder speed too slow.	Lever linkage misadjusted.	Readjust.
	Cylinder internal leakage excessive.	Repair or replace.
	Control lever (joystick) manifold solenoid valve defective.	Repair or replace.
	Control lever (joystick) manifold pressure reducing valve defective.	Repair or replace.
	Control valve internal leakage excessive.	Repair or replace.
	Control lever (joystick) internal leakage excessive.	Repair or replace.
Cylinder drift excessive.	Cylinder internal leakage excessive.	Repair or replace.
	Work port relief valve seals leaking.	Test, repair or replace.
	Control valve internal leakage excessive.	Repair or replace.

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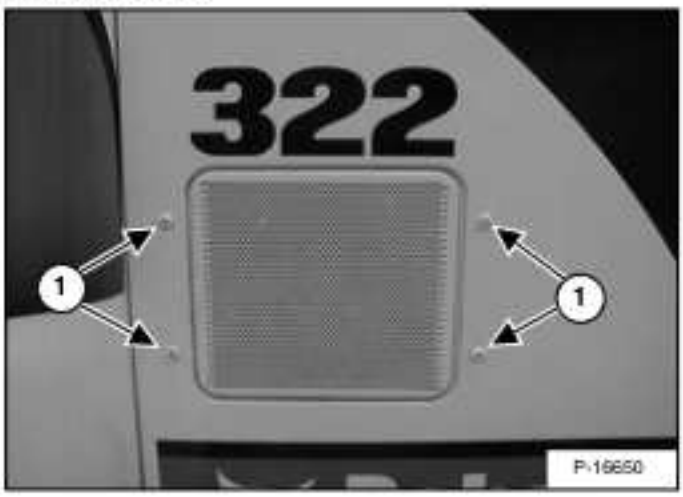
Removal And Installation (Cont'd)

Figure 60-40-12



Move the wire harness and battery cable down below the radiator bracket **[Figure 60-40-12]**. This allows the radiator and oil cooler assembly to pass over the harness and cable during removal.

Figure 60-40-13

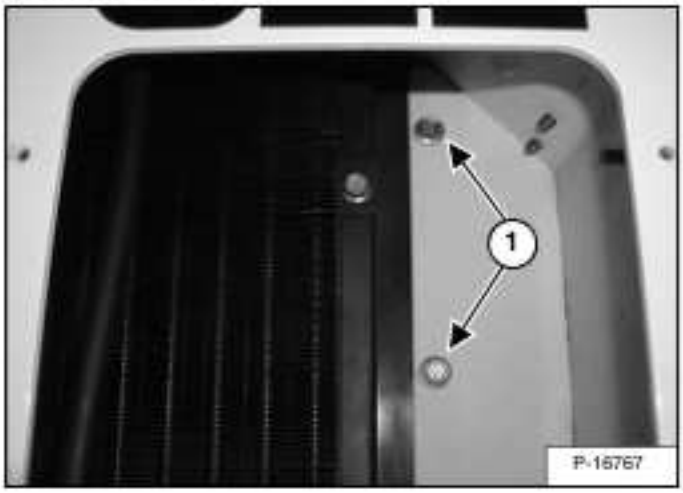


Remove the four screws (Item 1) **[Figure 60-40-13]** holding the grill to the side frame.

Push the grill in and slide the grill out the back of the excavator.

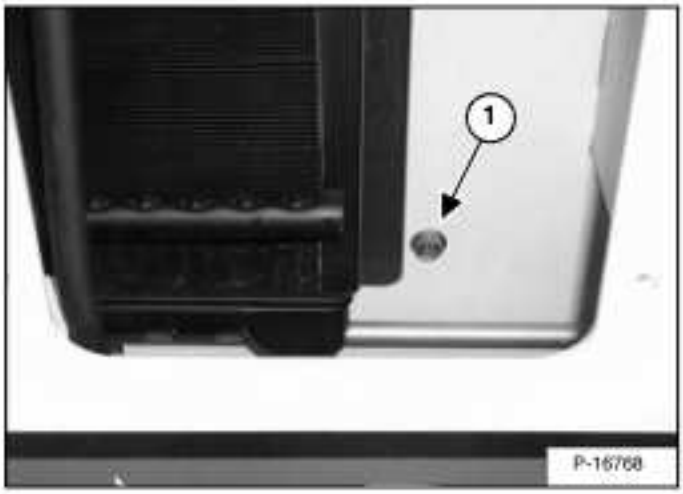
NOTE: Use a magnet or hook pick to prevent the grill from dropping and being scratched or damaged.

Figure 60-40-14



Remove the top two bolts (Item 1) **[Figure 60-40-14]** mounting the radiator to the frame.

Figure 60-40-15

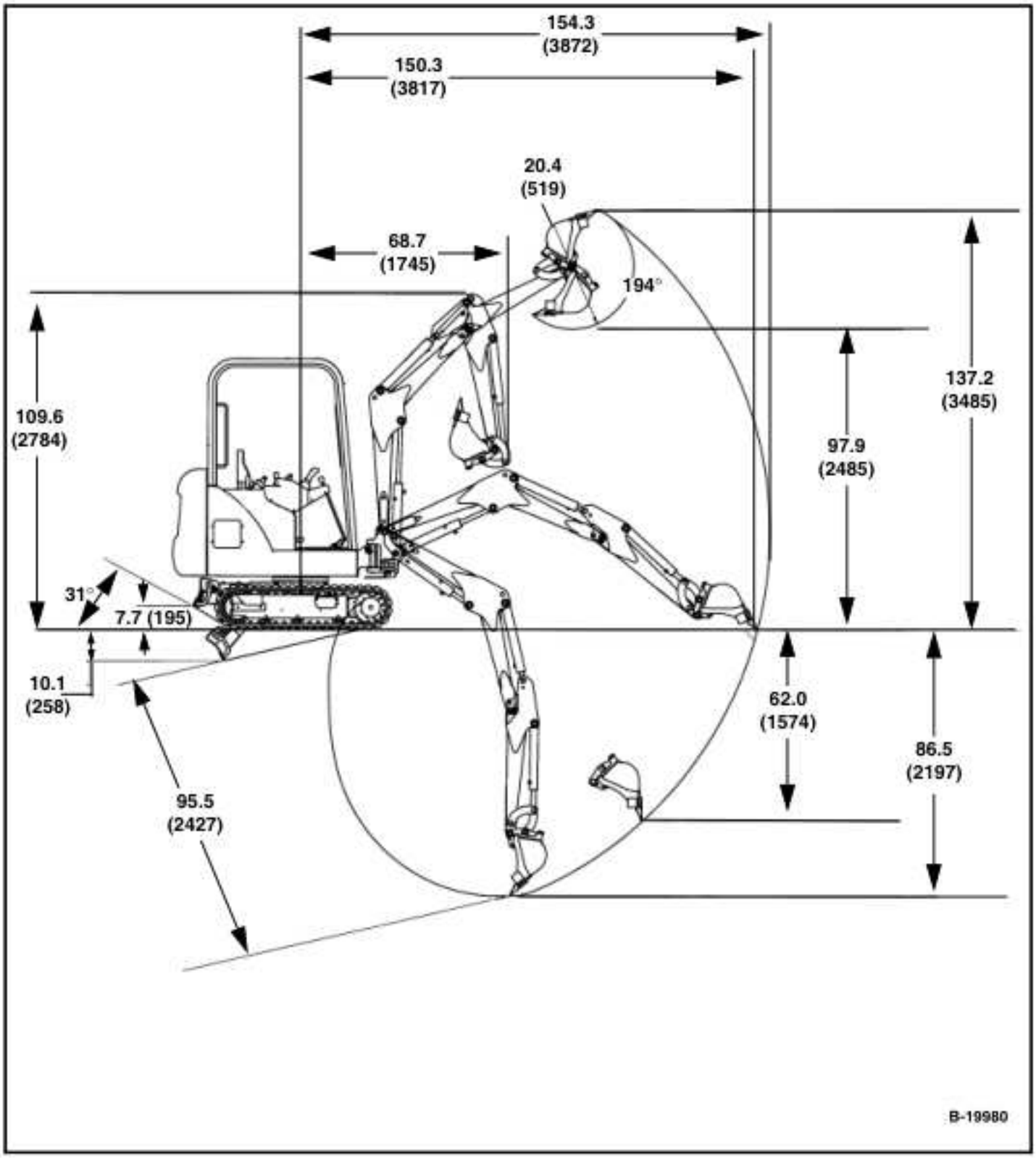


Remove the bottom bolt (Item 1) **[Figure 60-40-15]** mounting the radiator to the frame.

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Machine Dimensions (Cont'd)

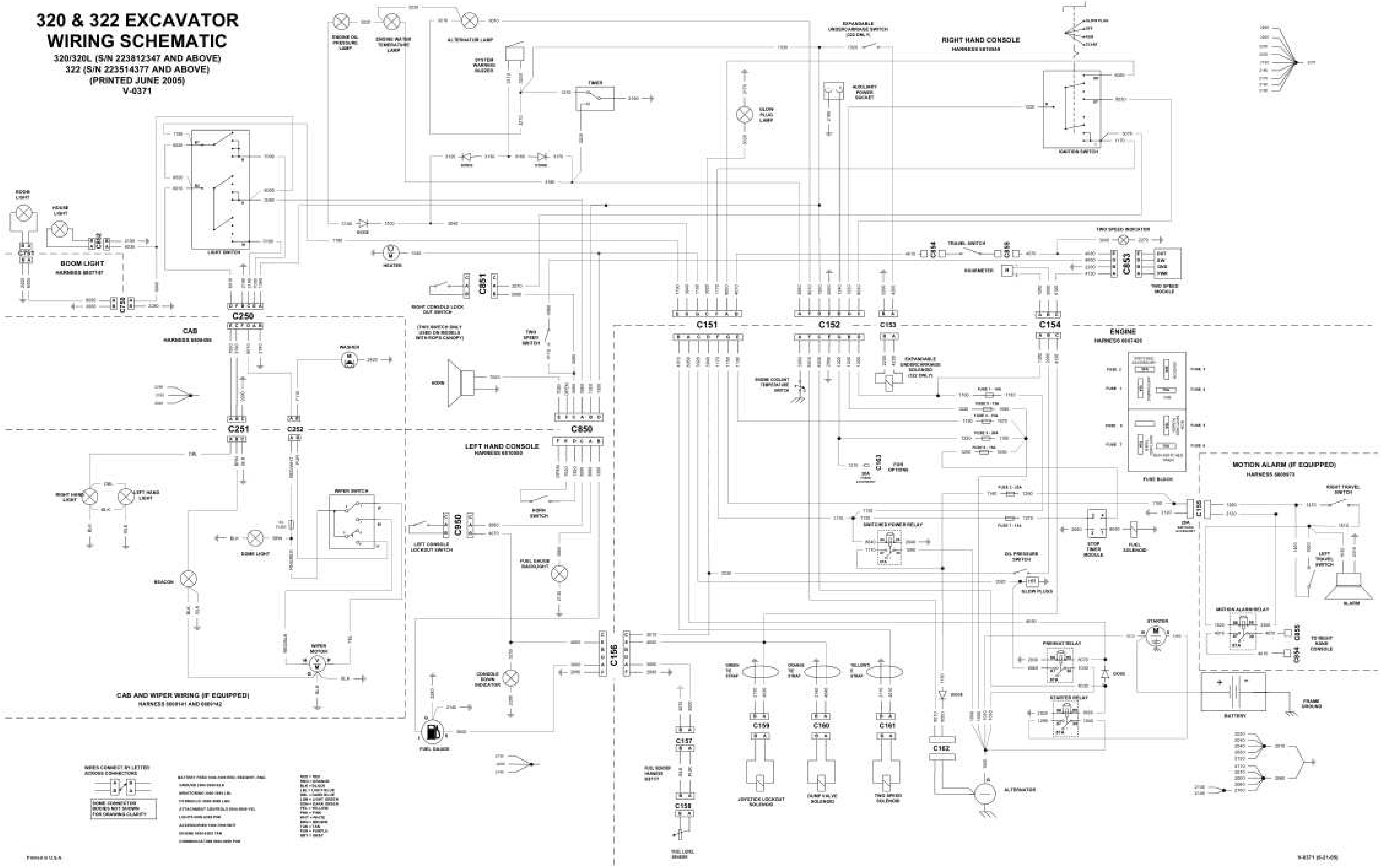
- All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specifications conform to SAE or ISO standards. Specifications are subject to change without notice.



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320 & 322 EXCAVATOR WIRING SCHEMATIC

320/320L (S/N 223812347 AND ABOVE)
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(PRINTED JUNE 2005)
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