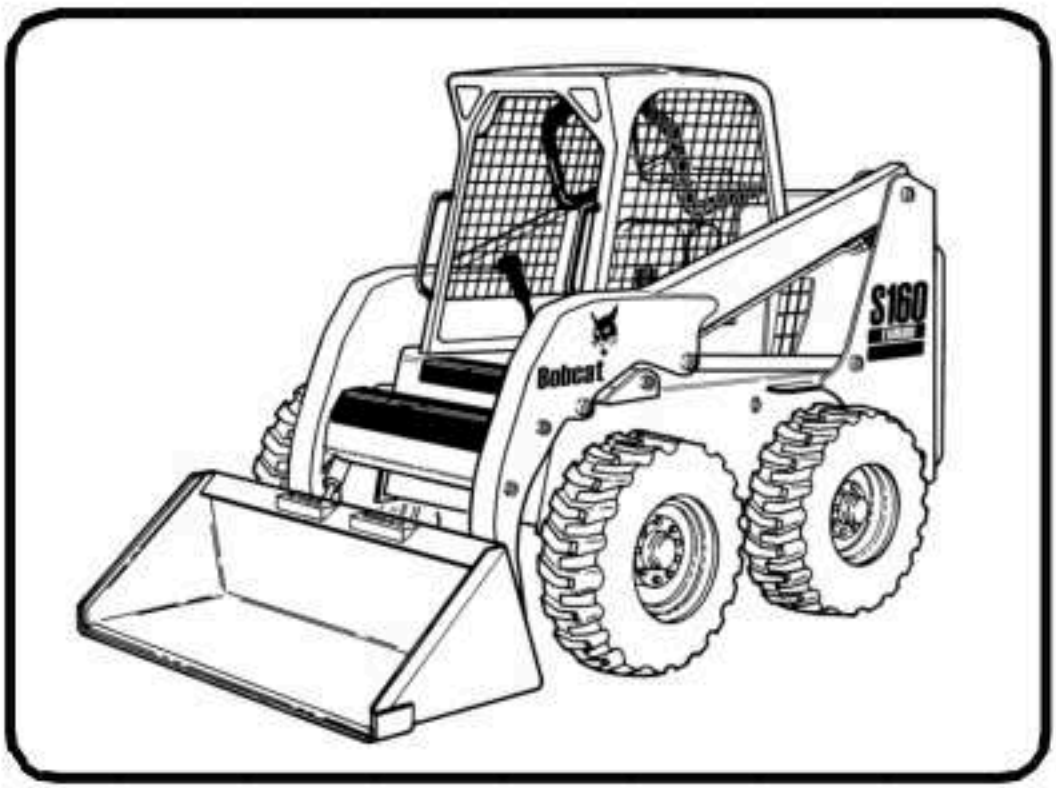
Bobcat®

Service Manual

S150, S160 Turbo Skid-Steer Loader

S/N 526611001 & Above
S/N 526711001 & Above
S/N 526811001 & Above
S/N 526911001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

6902730 (5-11)

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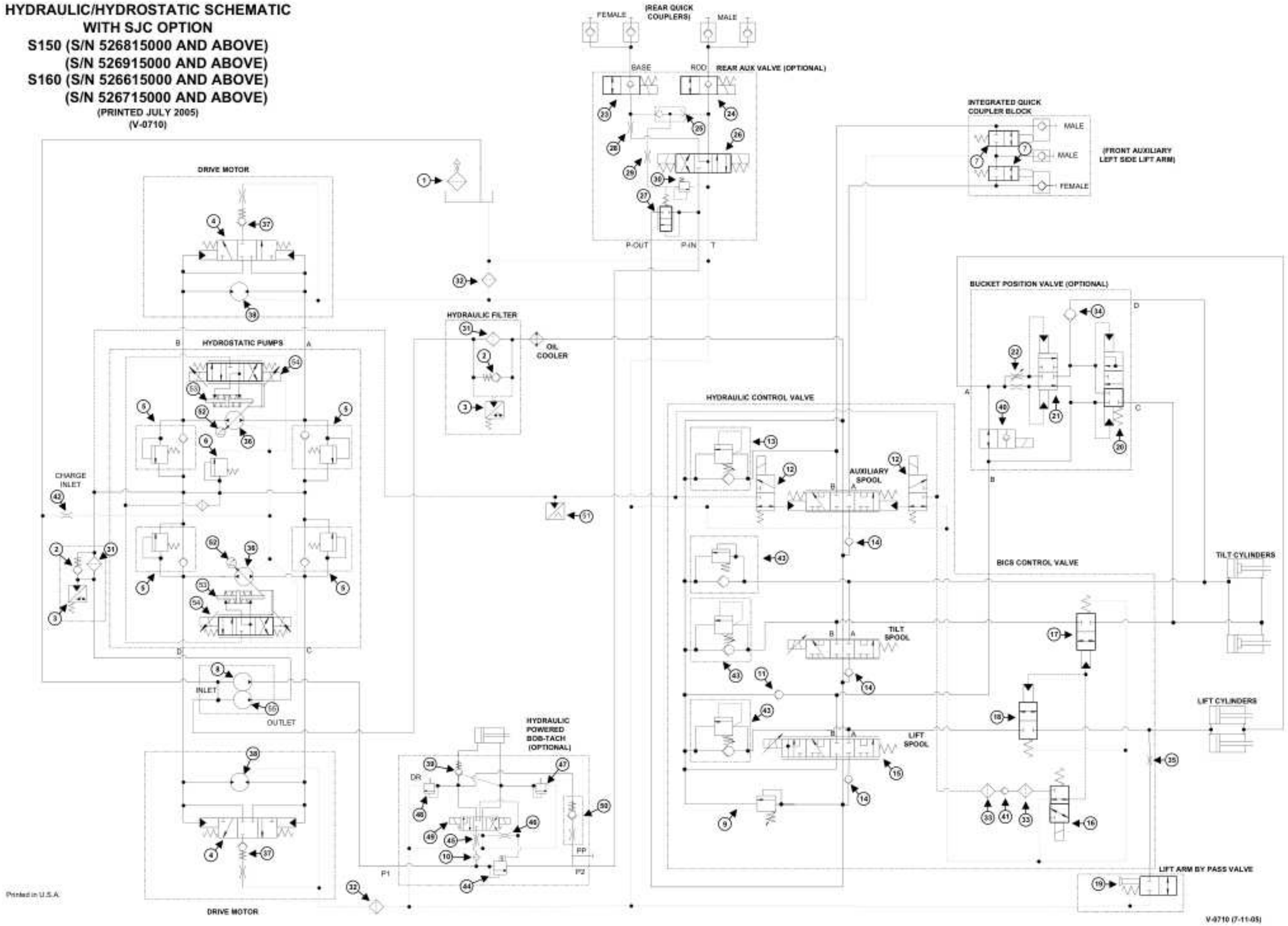
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HYDRAULIC/HYDROSTATIC SCHEMATIC
WITH SJC OPTION
S150 (S/N 526815000 AND ABOVE)
(S/N 526915000 AND ABOVE)
S160 (S/N 526615000 AND ABOVE)
(S/N 526715000 AND ABOVE)

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(V-0710)



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Troubleshooting Chart

The following troubleshooting chart is provided for assistance in locating and correcting problems which are most common. Many of the recommended procedures must be done by authorized Bobcat Service Personnel only.

⚠ WARNING

AVOID INJURY OR DEATH

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0807

PROBLEM	CAUSE
Battery will not take a charge.	1, 2, 3, 4, 5
Alternator will not charge.	1, 2, 5
Starter will not turn the engine.	2, 3, 4, 6, 7, 8, 9

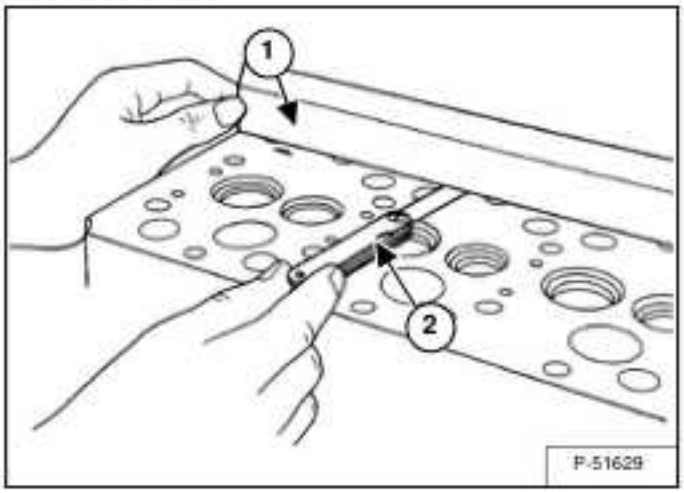
KEY TO CORRECT THE CAUSE
1. Alternator belt is loose or damaged.
2. Battery connections are dirty or loose.
3. Battery is damaged.
4. The ground connection is not making a good contact.
5. The alternator is damaged.
6. The engine is locked.
7. The starter is damaged.
8. The wiring or solenoid is damaged.
9. Check the fuses.

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Cylinder Head Servicing

Clean the surface of the cylinder head.

Figure 70-100-15

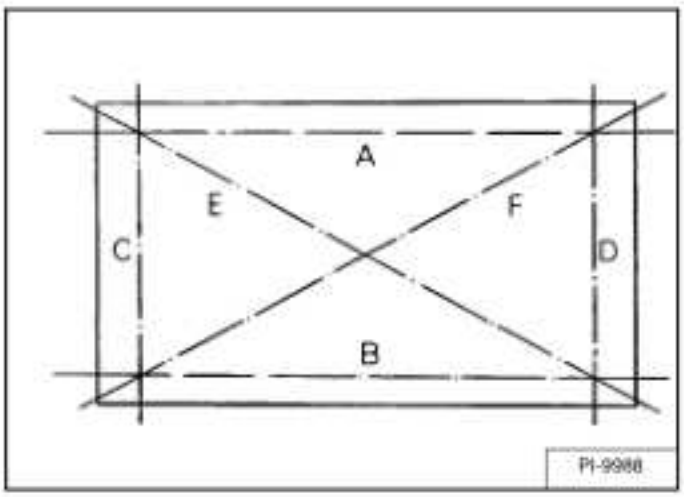


Put a straight edge (Item 1) **[Figure 70-100-15]** on the cylinder head.

NOTE: Do not put the straight edge across combustion chambers.

Put a feeler gauge (Item 2) **[Figure 70-100-15]** between the straight edge and the surface of the cylinder head.

Figure 70-100-16

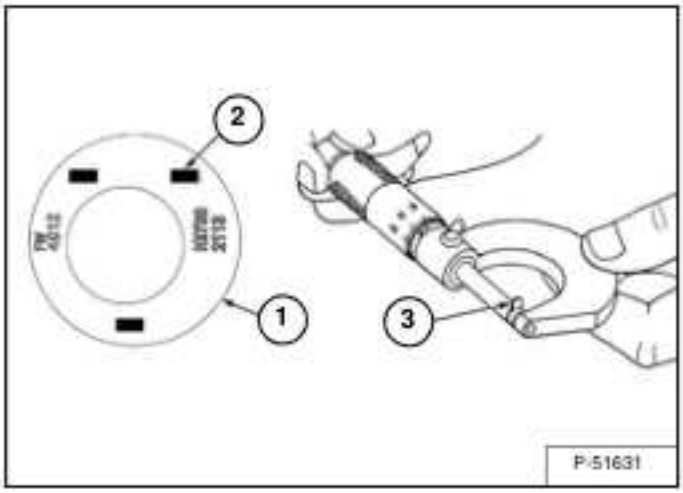


Put the straight edge on the cylinder head's four sides and two diagonal as shown in figure **[Figure 70-100-16]**.

The maximum distortion of the head surface is ± 0.002 in. (± 0,05 mm). If the measurement exceeds the specification, replace the cylinder head.

Cylinder Head Top Clearance

Figure 70-100-17



Install the cylinder head gasket. Put the piston (Item 1) **[Figure 70-100-17]** being checked at T.D.C.

Put 3 pieces of 0.06 in. (1,5 mm) diameter solder (Item 2) **[Figure 70-100-17]** on the top of the piston. Use grease to hold them in position.

NOTE: Put the solder in position so they do not touch the valves.

Turn the piston to bottom dead center.

Install the cylinder head and tighten to the correct torque in the correct sequence. ((See Cylinder Head Removal And Installation on Page 70-100-1.))

Turn the crankshaft until the piston exceeds T.D.C. Remove the cylinder head.

Remove the solder wire (Item 3) **[Figure 70-100-17]** and measure it.

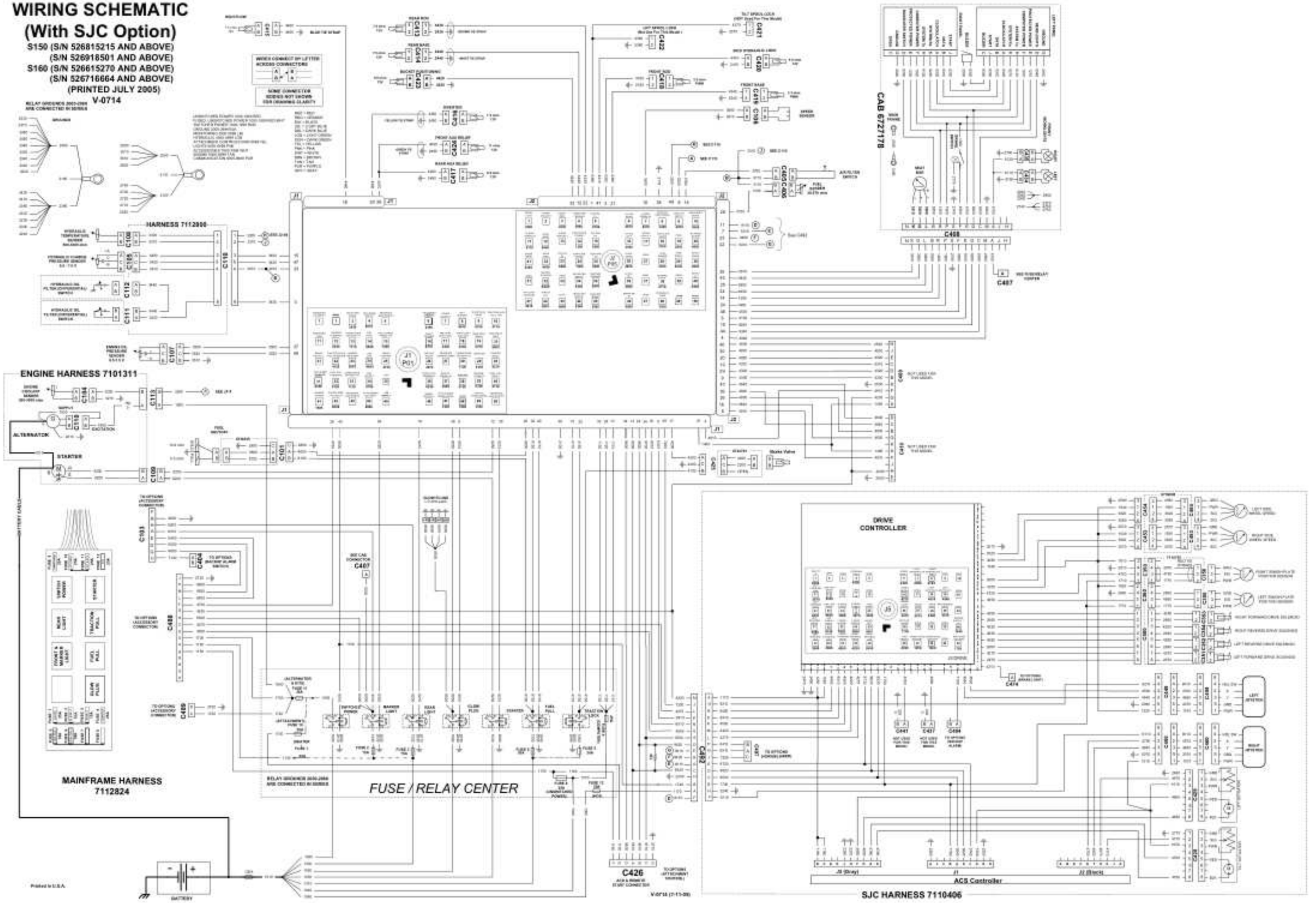
If the measurement exceeds the specifications, check the oil clearance of the crank pin journal or the piston pin.

Top Clearance	0.0236 - 0.0276 in. (0,6 - 0,7 mm)

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WIRING SCHEMATIC
(With SJC Option)

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