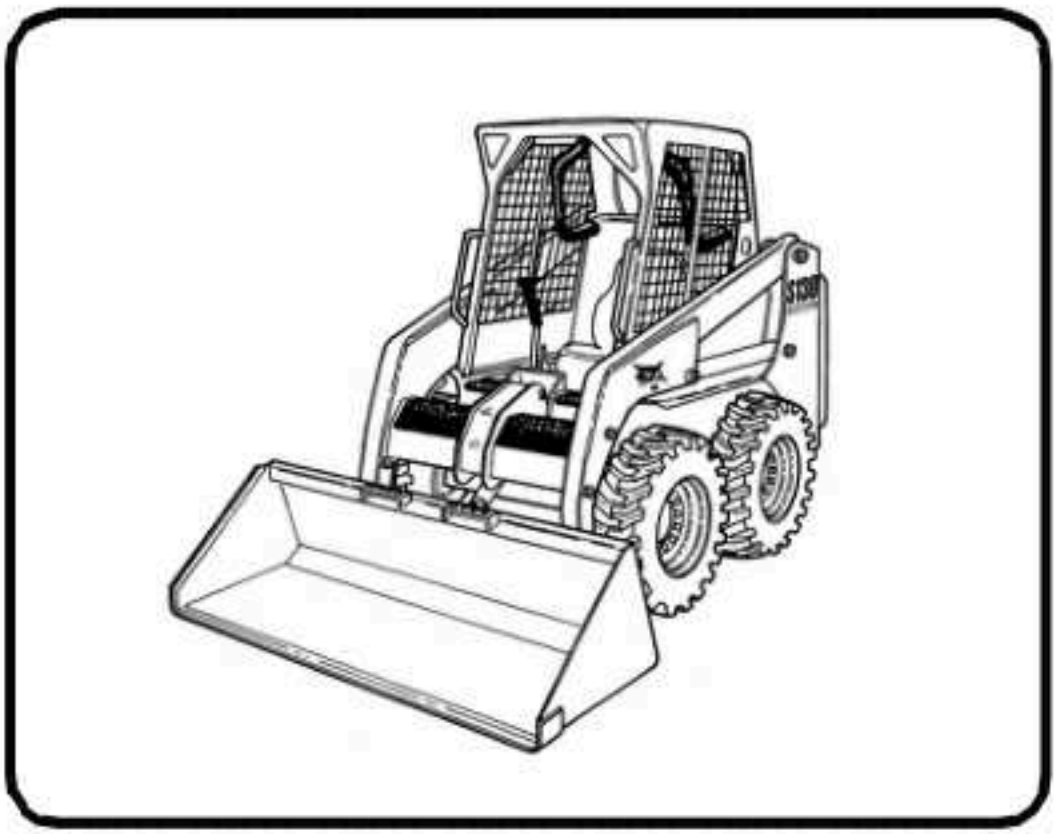
Bobcat®

Service Manual
S130 Skid-Steer Loader

S/N A3KY11001 - A3KY19999



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

6986565 (7-09)

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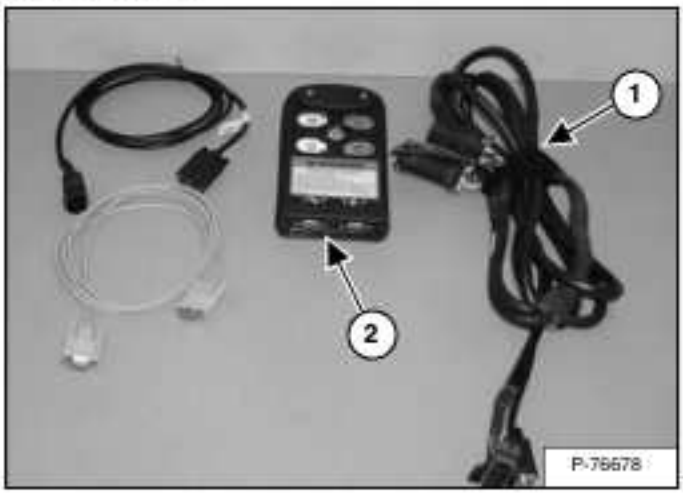
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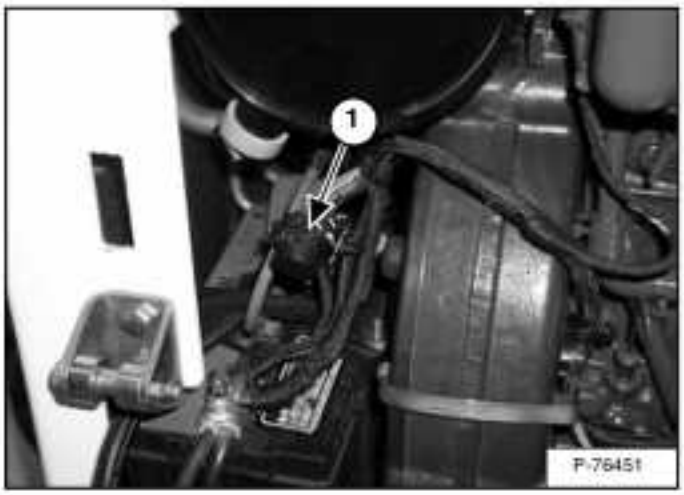
Loader Service Tool Harness - 6689747

Figure 10-61-18



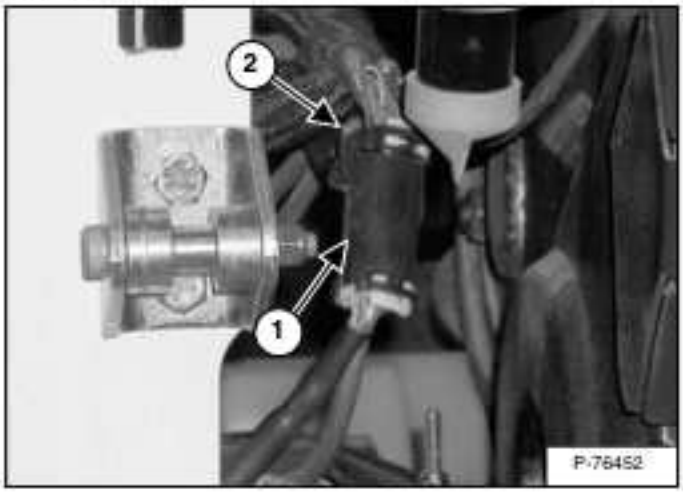
The loader service tool harness (Item 1) **[Figure 10-61-18]** is used to connect the remote start tool (service tool) (Item 2) **[Figure 10-61-18]** to the electrical system on the loader.

Figure 10-61-19



Loaders without an attachment control harness, remove the loader harness cap (Item 1) **[Figure 10-61-19]** and connect the Loader Service Tool Harness from the Remote Start Tool (Service Tool).

Figure 10-61-20



Loaders with an attachment control harness (7 pin or 14 pin), the attachment harness (Item 1) must be disconnected from the loader harness (Item 2) **[Figure 10-61-20]**.

When the remote start procedure is completed, replace the loader connector cap (Item 1) **[Figure 10-61-19]** or reconnect the attachment control harness to the loader harness **[Figure 10-61-20]**.

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Troubleshooting (Standard and ACS)

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.

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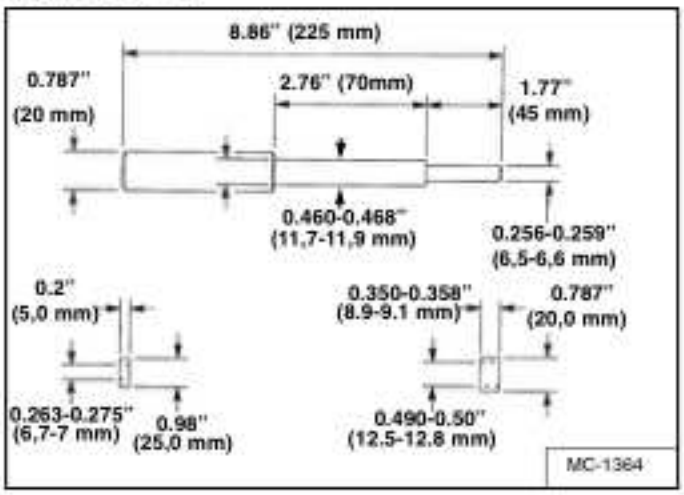
PROBLEM	CAUSE
Back-up alarm will not sound when the operator moves both steering levers in the reverse position.	1, 2, 3, 4, 5, 6, 7
Back-up alarm sounds when steering levers in neutral / forward position.	2, 6, 7

KEY TO CORRECT THE CAUSE
1. The ground connection is not making a good contact.
2. The back-up alarm switches are damaged.
3. The alarm is damaged.
4. The alarm or back-up switch wires are disconnected.
5. Check the fuses.
6. The wiring is damaged.
7. The back-up alarm switches need adjusting.

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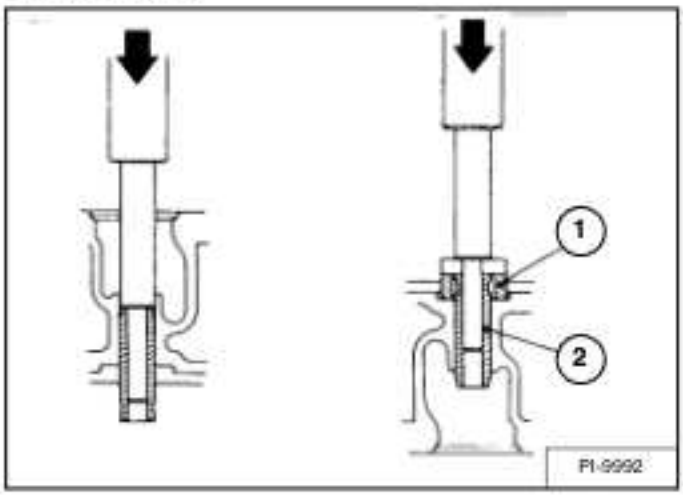
Valve Guide - Checking (Cont'd)

Figure 70-80-27



To remove and replace the valve guide, make the driver tool as shown in figure **[Figure 70-80-27]**.

Figure 70-80-28



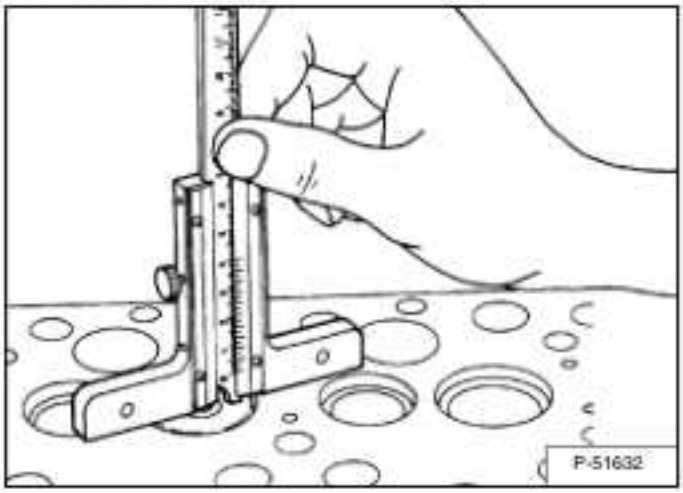
Press the used valve guide out of the cylinder head using the special driver tool **[Figure 70-80-28]**.

Put oil on the outside diameter of the new valve guide. Press the new valve guide into the cylinder head from the top side. Use the special driver tools (Items 1 & 2) **[Figure 70-80-28]**, press the new guide until the tool contacts the cylinder head.

Ream the valve guide to the correct specifications.

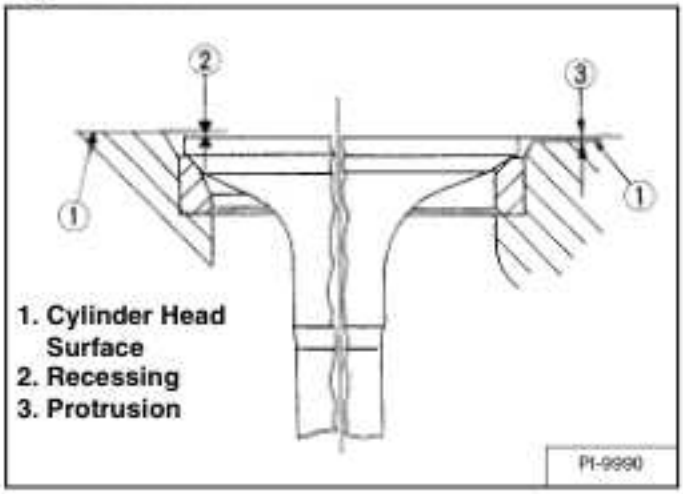
Reconditioning The Valve And Valve Seat

Figure 70-80-29



Install the valve into the guide. Measure the valve recessing or protrusion with a depth gauge **[Figure 70-80-29]**.

Figure 70-80-30



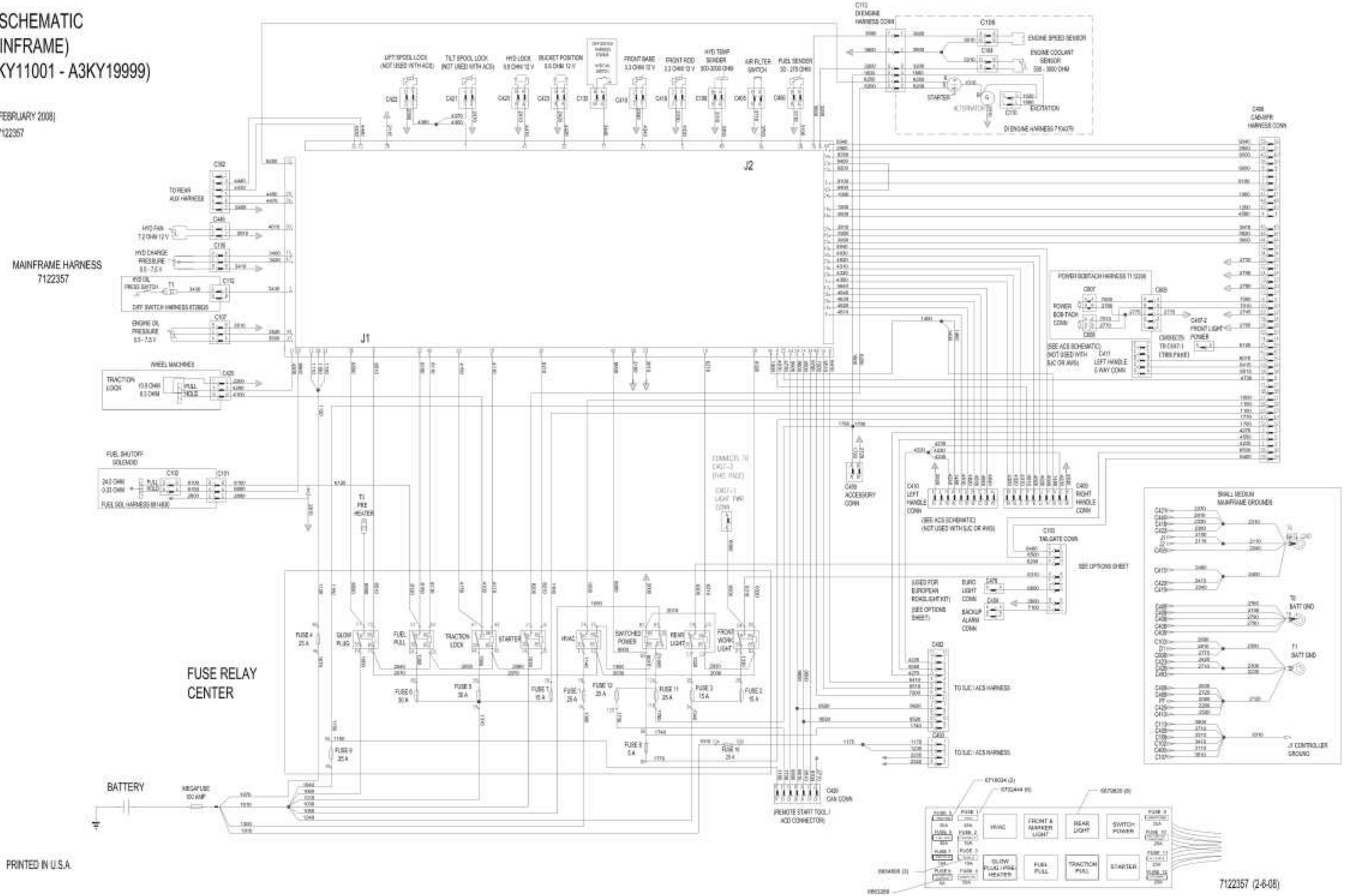
If the measurement exceeds the allowable limit, replace the valve or cylinder head **[Figure 70-80-30]**.

Protrusion	0.002 in. (0,5 mm)
Recessing	0.006 in. (0,15 mm)
Allowable Limit (Recessing)	0.016 in. (0,4 mm)

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WIRING SCHEMATIC
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