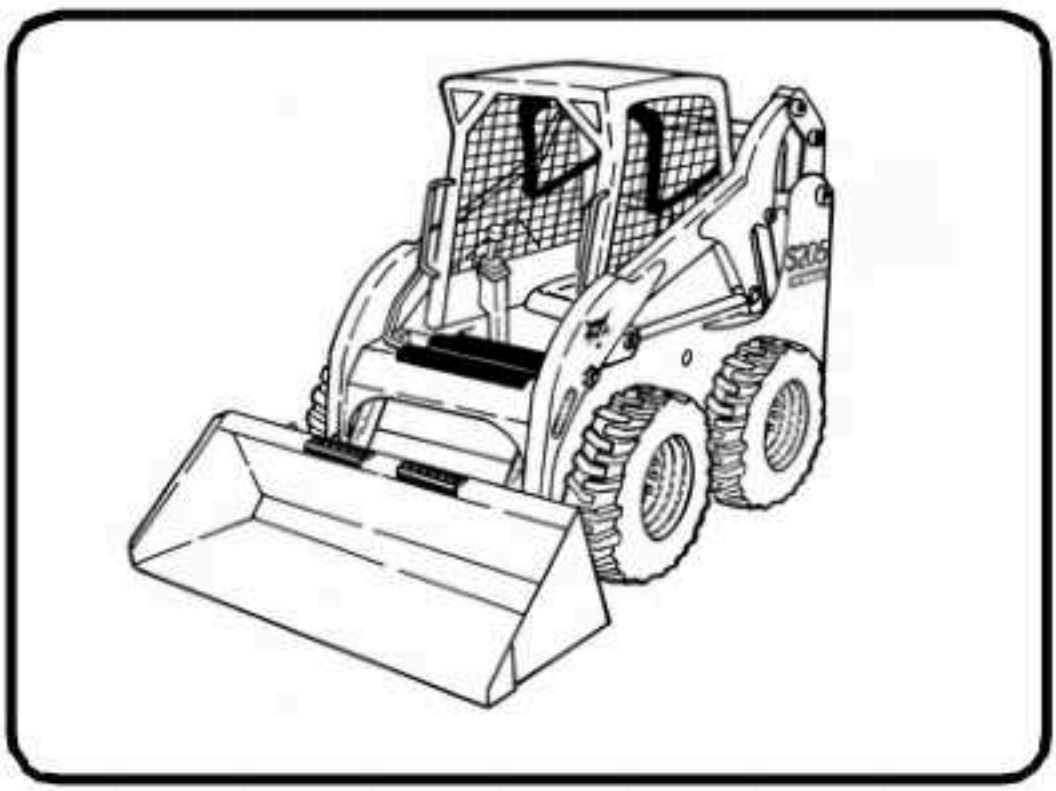
Bobcat®

Service Manual
S205 Skid-Steer Loader

S/N 530560001 & Above
S/N 530660001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6987037 (7-09)

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Troubleshooting (Joystick)

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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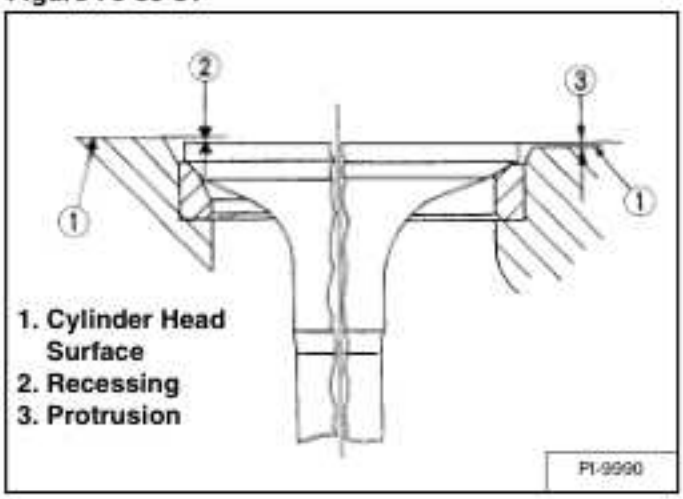
PROBLEM	CAUSE
Back-up alarm will not sound when the operator moves joystick(s) in the reverse position.	1, 2, 3, 4, 5, 6
Back-up alarm sounds when joystick(s) in neutral / forward position.	5, 6

KEY TO CORRECT THE CAUSE
1. The ground connection is not making a good contact.
2. The alarm is damaged.
3. The alarm wires are disconnected.
4. Check the fuses.
5. The wiring is damaged.
6. The joystick controller is not working correctly.

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Reconditioning The Valve And Valve Seat (Cont'd)

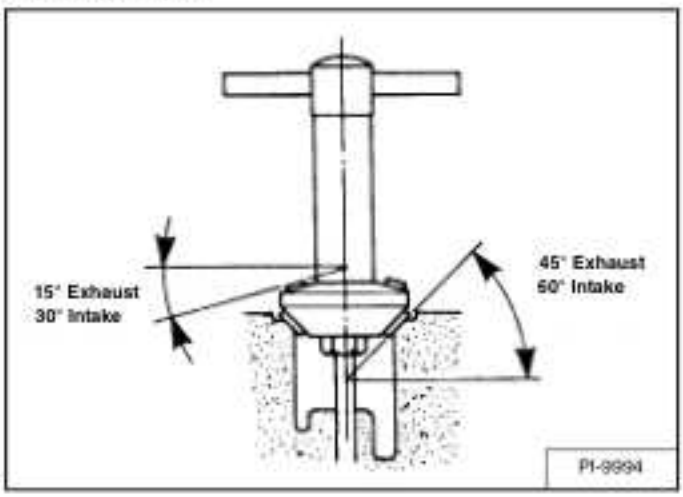
Figure 70-80-31



If the measurement exceeds the allowable limit, replace the valve or cylinder head **[Figure 70-80-31]**.

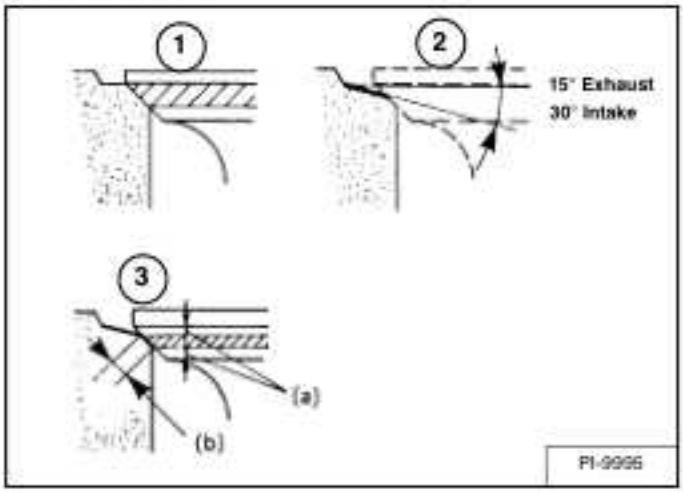
Protrusion	0.002 in. (0,5 mm)
Recessing	0.006 in. (0,15 mm)
Allowable Limit (Recessing)	0.016 in. (0,4 mm)

Figure 70-80-32



Grind the valve seat surface in the cylinder head to the correct angle **[Figure 70-80-32]**.

Figure 70-80-33



Check the seat surface and valve face (Item 1) **[Figure 70-80-33]**.

(a) identical dimensions above and below the valve seat

If the seat surface (b) is too wide, use a 30 degree cutter (Item 2) on the intake, and a 15 degree cutter on the exhaust to get the correct width (Item 3) **[Figure 70-80-33]**.

Valve Seat Width

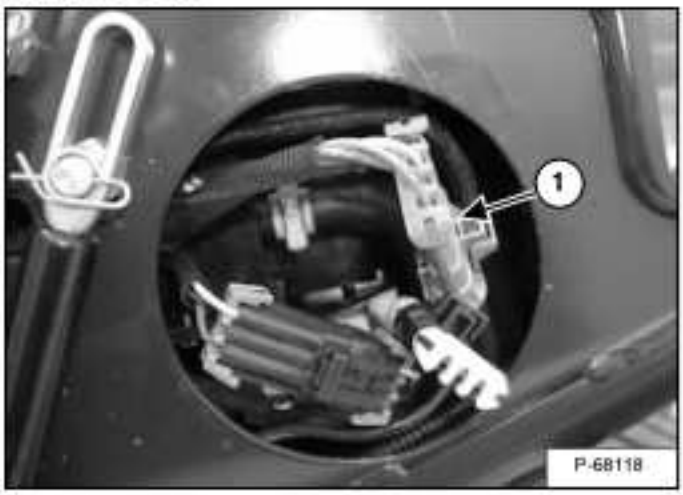
Intake	0.0835 in. (2,12 mm)
Exhaust	0.0835 in. (2,12 mm)

Valve Seat & Face Angle

Intake	60 degrees
Exhaust	45 degrees

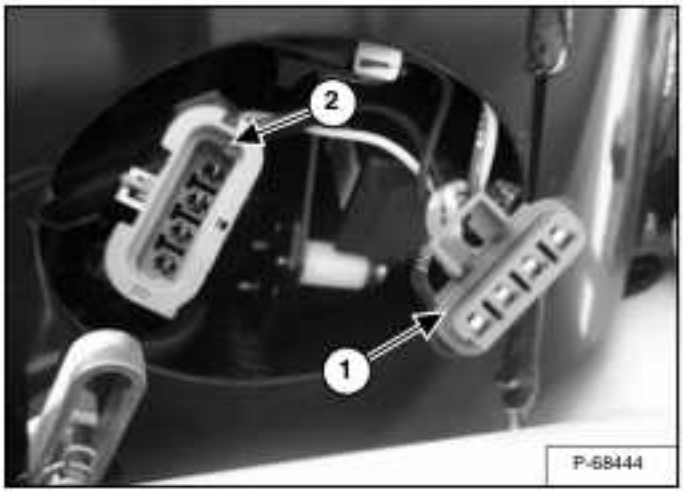
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Figure 80-30-15



Disconnect the blower fan wiring connector (Item 1) **[Figure 80-30-15]** from the loader wiring harness.

Figure 80-30-16



Check the loader harness (Item 1) **[Figure 80-30-16]** for voltage. The voltage should be 12 volts.

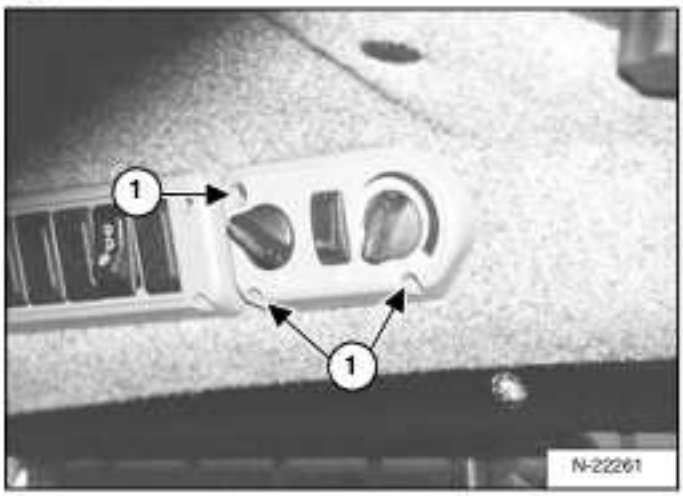
If there is no voltage at the wiring harness, check the harness for broken wires.

If there is voltage at the wiring harness, check the resistance to the blower fan at the blower fan wiring connector (Item 2) **[Figure 80-30-16]**.

If there is no resistance value replace the blower fan. (See Removal And Installation on Page 80-130-1.)

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

Figure 80-30-17



Remove the three mount screws (Item 1) **[Figure 80-30-17]** from the cab control panel.

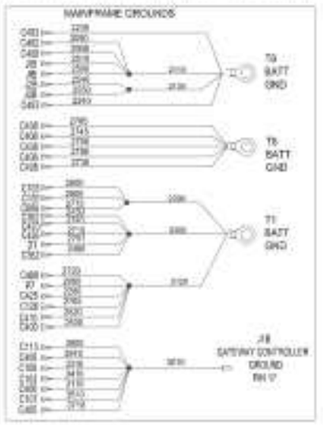
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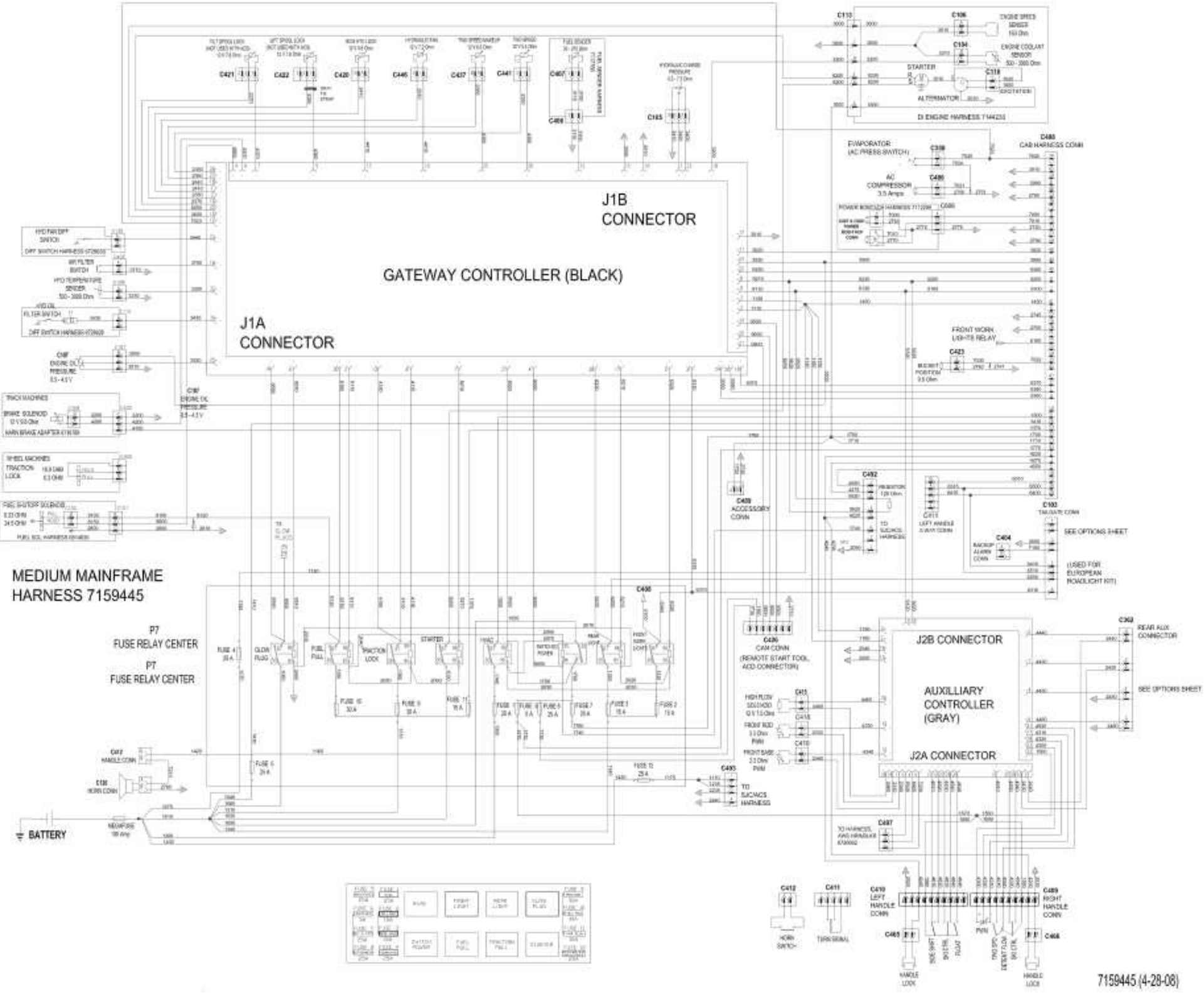
WIRING SCHEMATIC
MAINFRAME
S205 (S/N 530560001 AND ABOVE)
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