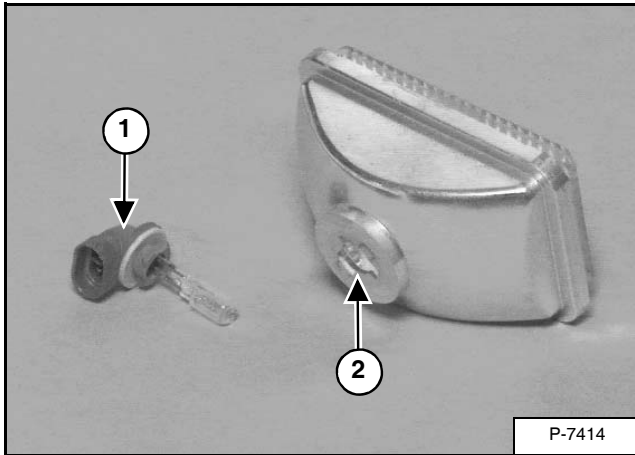


## LIGHTS (CONT'D)

### Front Lights Removal And Installation (Cont'd)

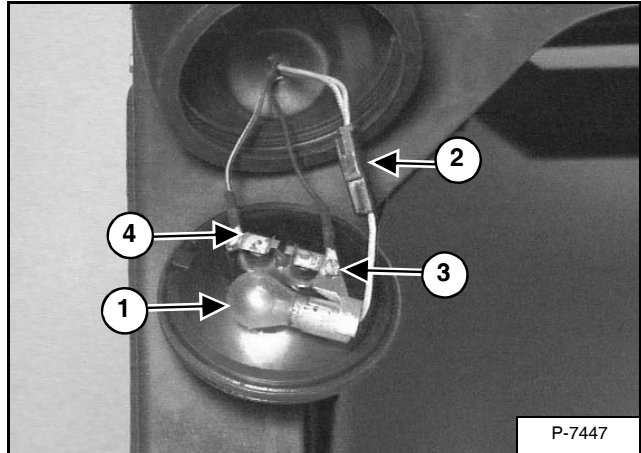
Figure 60-60-5



Turn the bulb (Item 1) [Figure 60-60-5] and remove it from the cover (Item 2) [Figure 60-60-5].

### Rear Lights Removal And Installation

Figure 60-60-6



Remove the light from the rubber mount.

Push the work bulb (Item 1) [Figure 60-60-6] in and turn it counterclockwise to remove it from the socket.

Disconnect the electrical connector (Item 2) [Figure 60-60-6] from the cab harness.

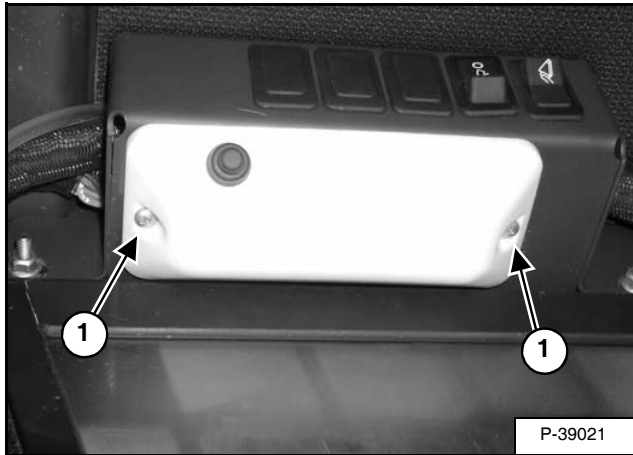
Remove the screw (Item 3) [Figure 60-60-6] to remove the work light socket from the rear light.

Remove the screws (Items 3 & 4) [Figure 60-60-6] to remove the rear light.

## LIGHTS (CONT'D)

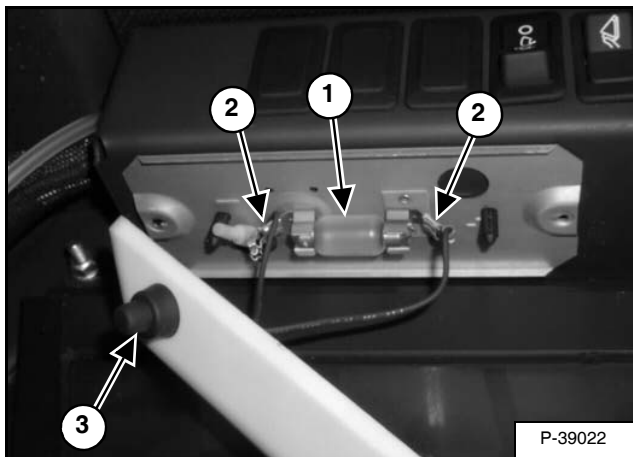
### Cab Light Removal And Installation

Figure 60-60-7



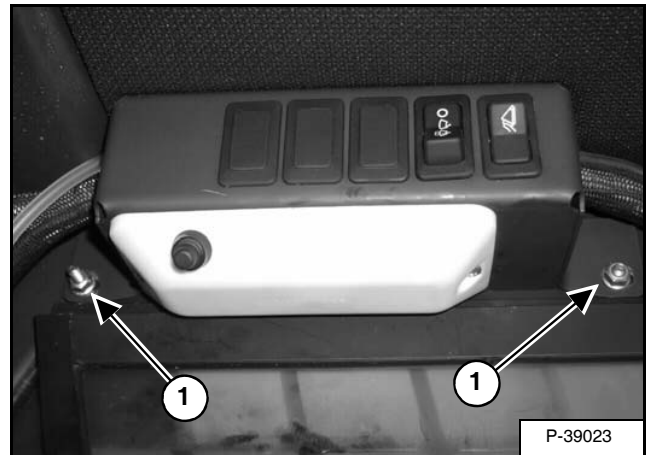
The cab light is mounted in the upper left rear corner of the operator cab [Figure 60-60-7]. Remove the two mounting screws (Item 1) [Figure 60-60-7] to remove the light cover.

Figure 60-60-8



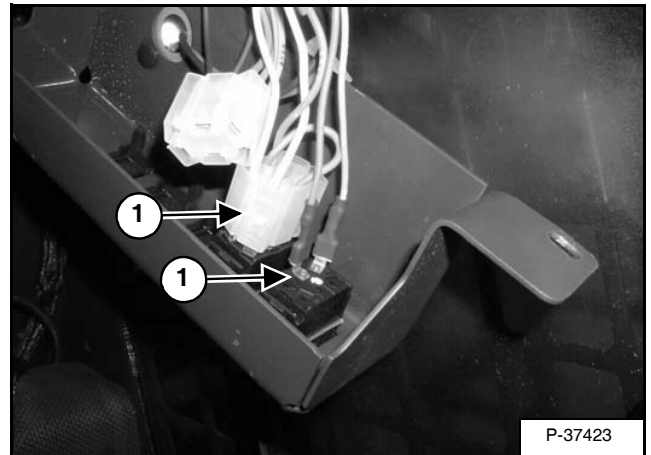
Lower the cover to access the light bulb (Item 1) [Figure 60-60-8]. The switch can be replaced by removing the wires from the terminals (Item 2) [Figure 60-60-8] and unscrewing the switch (Item 3) [Figure 60-60-8] from the light cover.

Figure 60-60-9



Remove the mounting bolts (Item 1) [Figure 60-60-9] to lower the instrument panel.

Figure 60-60-10



Disconnect the electrical connectors (Item 1) [Figure 60-60-10] from any switches in the light housing.



## BICS™ SYSTEM CONTROLLER

### Troubleshooting Guide

The following troubleshooting guide is provided for assistance in locating and correcting BICS system problems. It is recommended that these procedures be done by authorized Bobcat Service Personnel only.



## WARNING

**Check for correct function after adjustments, repairs or service. Failure to make correct repairs or adjustments can cause injury or death.**

W-2004-1285

PROBLEM	SOLUTION #
Power indicator light does not come ON.	1, 2, 3, 6
All indicator lights flashing.	4
One of the indicator lights flashing.	5
Intermittent indicator lights.	6, 7, 8, 9
Key ON, Seat bar down, push the Press to Operate Button. The System Activated, Valve And Traction indicator lights do not come ON.	10

SOLUTION SUGGESTIONS
<ol style="list-style-type: none"><li>1. Check that ignition switch ON.</li><li>2. Check BICS 10 amp. fuse.</li><li>3. Check wiring and connections. Make sure the connector is securely connected to the controller. Pull on connector to check.</li><li>4. Look at indicator light windows, if they are milky white in appearance it is most likely caused by moisture in the controller. Allow to dry or replace the controller.</li><li>5. Refer to BICS controller troubleshooting chart. (See Troubleshooting Chart on Page 60-80-2.)</li><li>6. Check wire connections to make sure connectors are locked into place.</li><li>7. Check pins in connectors for pins pushed back or bent.</li><li>8. Move the system wiring back &amp; forth to try to find area that may be causing the intermittent connection.</li><li>9. Use sensor tester MEL 1428 to isolate problem between sensor and controller and wiring.</li><li>10. Check the wiring connections. Remove the left instrument panel and check the Push to Operate Button with an Ohmmeter at the two pin connector.</li></ol>

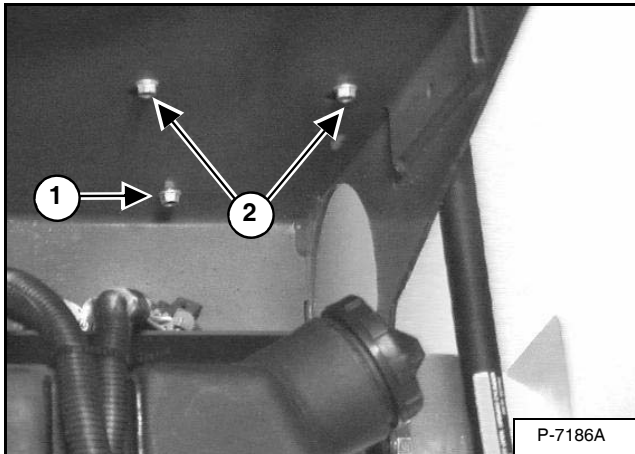
## BICS™ SYSTEM CONTROLLER (CONT'D)

### Removal And Installation

**NOTE:** Photo's may be different but the procedure is the same for all models.

Raise the operator cab. (See Raising The Operator Cab on Page 10-30-1.)

Figure 60-70-1



The controller mounting bolts are located on the back of the operator cab [Figure 60-70-1].

Remove the top mounting bolt (Item 1) [Figure 60-70-1] from the controller.

Loosen the two lower mounting bolts (Item 2) [Figure 60-70-1].

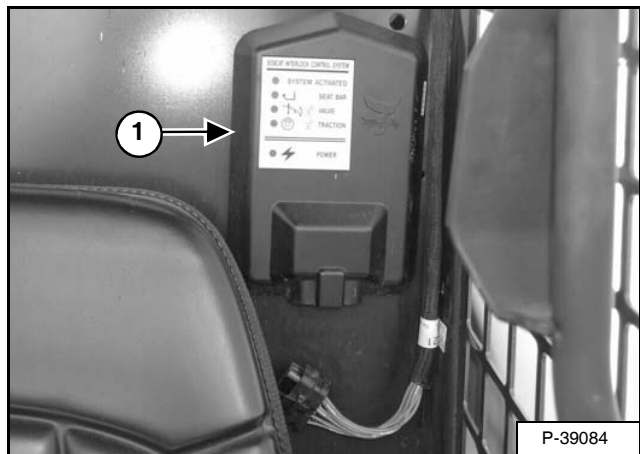
Lower the operator cab.

**NOTE:** The operator seat is removed in photo [Figure 60-70-2] for clarity purposes only. The seat does not need to be removed to remove the controller.

Slide the controller (Item 1) [Figure 60-70-2], up and remove it from the back of the operator cab.

Disconnect the electrical harness from the controller and remove the controller from the loader.

Figure 60-70-2

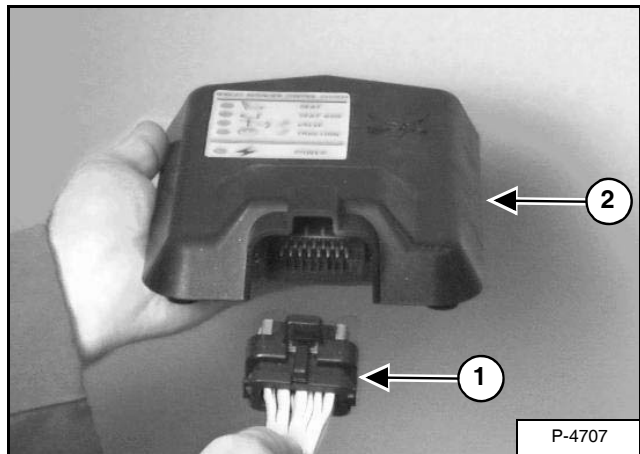


## IMPORTANT

Be sure the connector to the BICS system controller are correctly engaged in the controller when installing the controller. An audible snap can be heard when the connector is correctly installed. Try to pull the connector out of the controller, if it cannot be removed it has been correctly installed [Figure 60-70-3].

I-2087-1095

Figure 60-70-3



**NOTE:** Install the harness connector (Item 1) [Figure 60-70-3] into the controller (Item 2) [Figure 60-70-3] before installing the controller.

**Installation:** Tighten the controller mounting bolts 80-90 in.-lb. (9-10 N•m) torque.

Reverse the procedure to install the controller.