ABS HOPPER LID SWITCH KIT ASSEMBLY

Installation Instructions

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Revision: C

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Contact Information:

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This document contains the original instructions for the unit described.

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Printed in U.S.A.

ABS Hopper Lid Switch Kit Assembly

Safety

WARNING:
Before starting installation, read and understand all safety label and warnings on the machine. Also review and understand all safety instructions in the owners, installation and service manuals.

Failure to comply could result in serious injury, death or damage to the equipment.

Qualified Service Personnel

WARNING:
Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.

Safety Precautions

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

WARNING:
Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

Failure to comply could result in serious injury, death or damage to the equipment.

CAUTION:
Always be sure to keep area around the unit clean and free of clutter. **Failure to keep this area clean may result in injury or equipment damage.**

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ASSEMBLY INSTRUCTIONS:

Refer to Figure 1 for a photo of the Hopper Lid Switch kit.

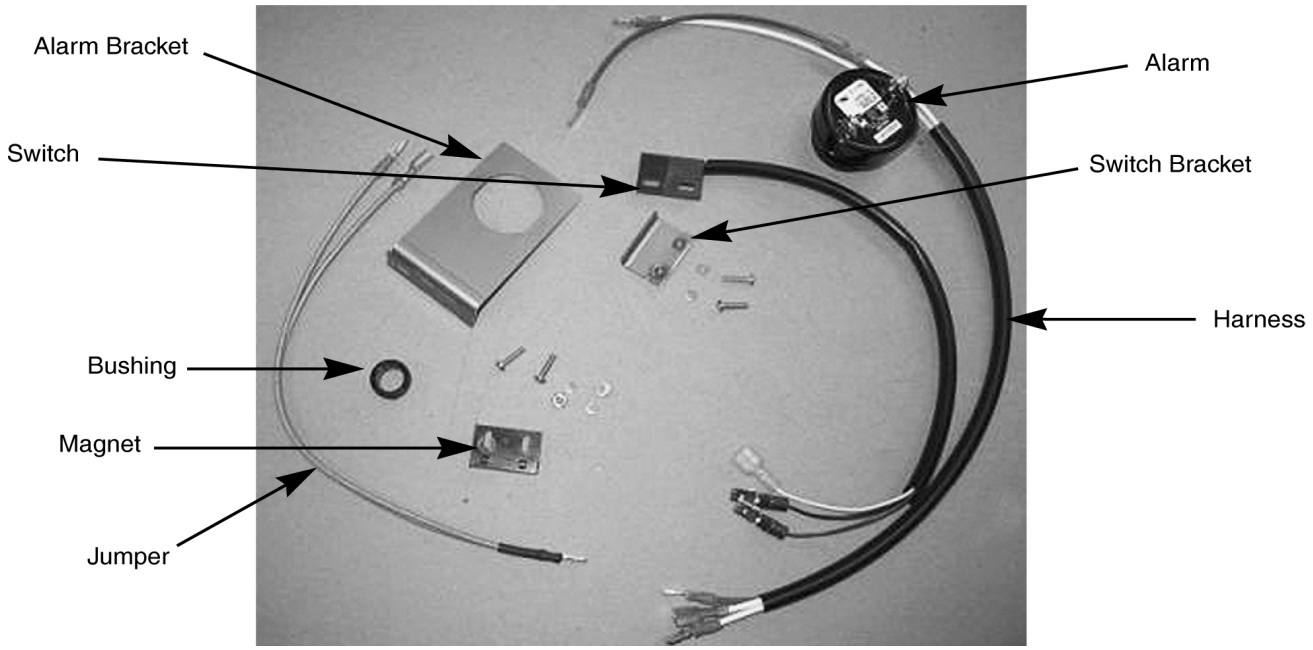

Figure 1.

Perform the following procedure to assemble the kit.

1. Turn off power and remove the lid holder. (See Figure 2.)

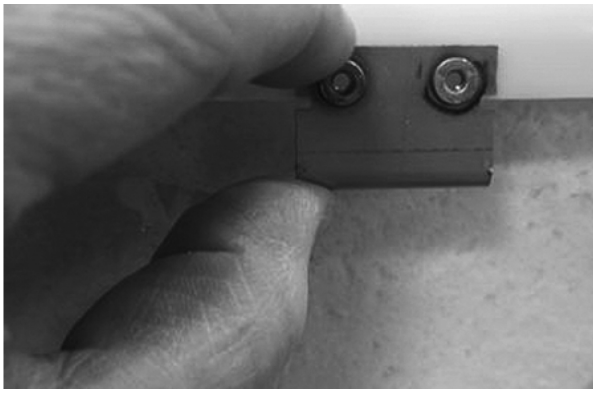

Figure 2.

2. Measure 50.8 mm (2 in.) from the wrapper edge; this is the center of the lid switch. (See Figure 3.)

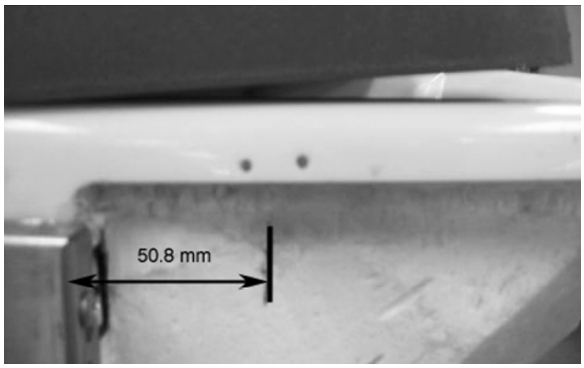

Figure 3.

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3. Use the switch bracket as a template. Drill two clearance holes for 4-40 screws. The notches in the bracket can be used as a guide and should be located on the bottom edge of the hopper. (For easy of drilling use a right angle drill or loosen the clamps on the turret shaft and remove the turret.)
4. Install the switch and bracket with the wires towards the front of the unit then run the harness behind the switch and into the corner of the wrapper. A bead of RTV will help secure the harness and help to prevent the lid from cutting the wires when it is installed or removed. (See Figure 4.)

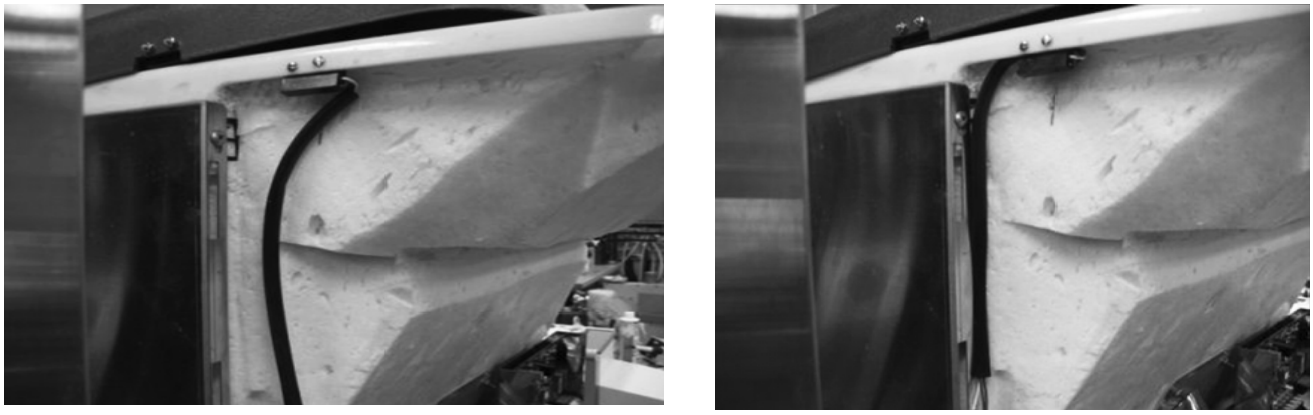

Figure 4.

5. Place the end of the harness with the two male and one female quick connects through the opening in the rear of the solid state relay electric box. (See Figure 5.)

Figure 5.

6. Connect the harness to the lid switch, white wire to white wire, blue to blue and the remaining white and black wires together. (See Figure 6.)

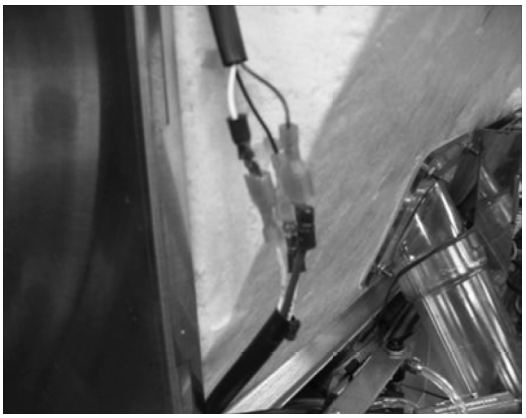

Figure 6.

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7. Route and secure the harness so it does not interfere when the lid holder is removed or installed. (See Figure 7.)

Figure 7.

8. Remove the white wire from the solid state relay and connect it to the white wire of the switch harness. (See Figure 8.)

Figure 8.

9. Place the other white wire in the harness onto the solid state relay. (See Figure 9.)

Figure 9.

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10. Remove the gray wire from the solid state relay and connect it to the gray jumper wire with the male quick connector. (See Figure 10.)

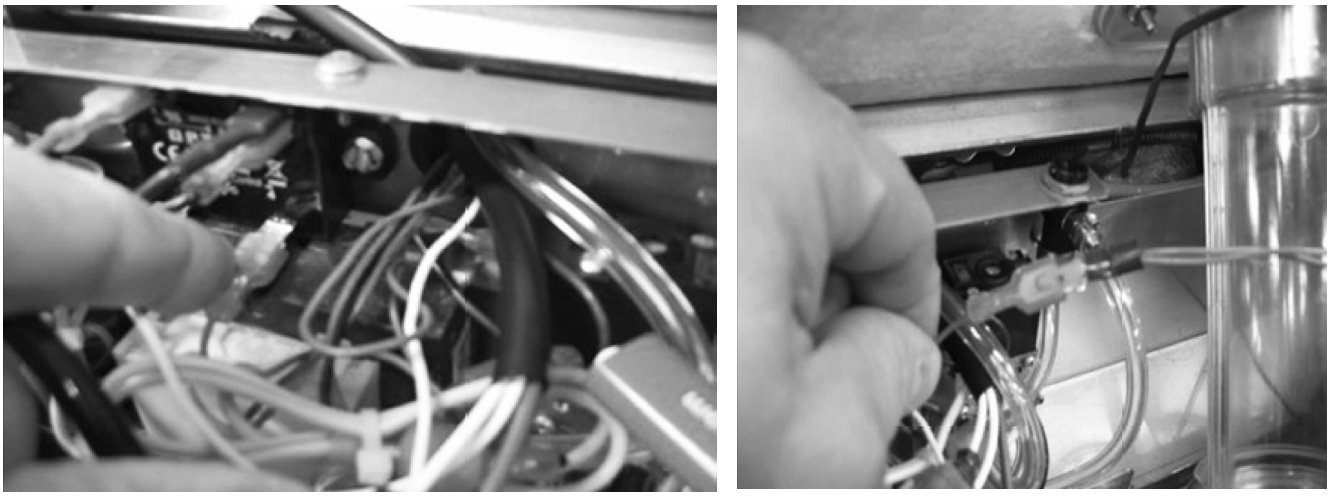

Figure 10.

11. Place the gray wire with the female quick connect on the solid state relay. (See Figure 11.)

Figure 11.

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12. Place the remaining gray wire and the blue wire from the switch harness through the electric box cover. You will need to add a 12.7 mm (0.5 in.) hole in the cover. It will be 25.4 mm (1 in.) down from the top and 76.2 mm (3 in.) over from the right side. (See Figure 12)

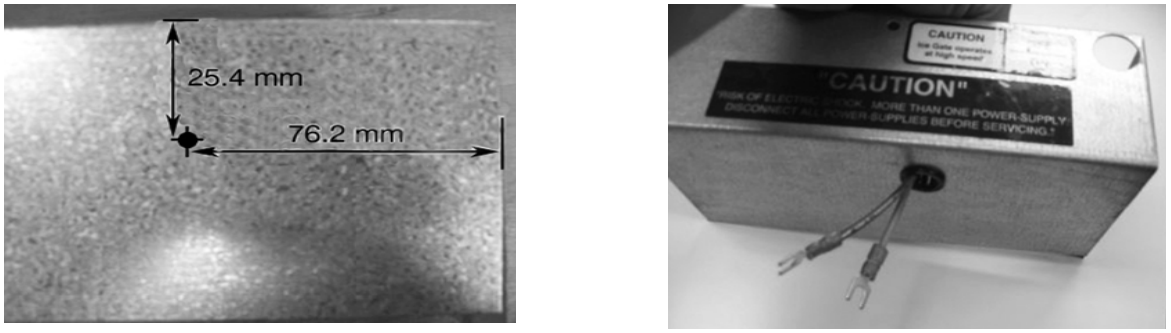

Figure 12.

13. Insert the bushing into the hole and then place the remaining gray wire with the fork terminal onto the negative side of the alarm and the blue wire from the lid switch harness onto the positive terminal. (See Figure 13.)

Figure 13.

14. Secure the alarm to the bracket. (See Figure 14.)

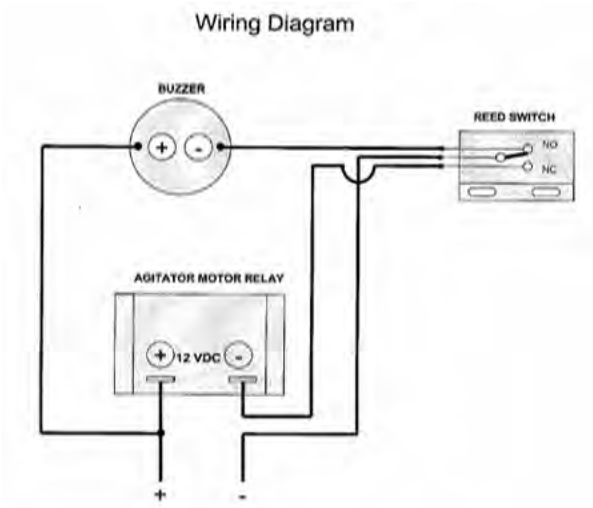

Figure 14.

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15. Refer to Figure 15 for the wiring of the buzzer circuit.

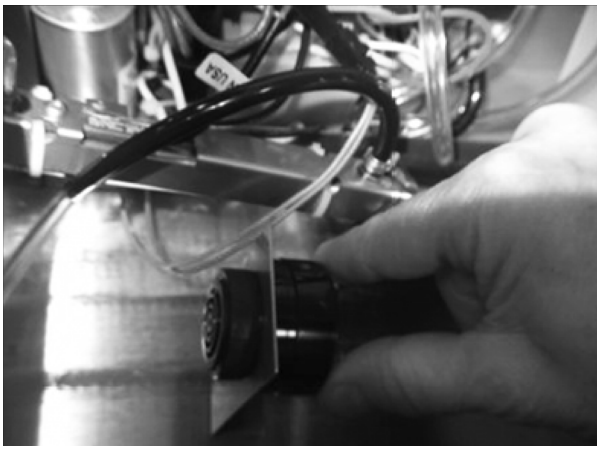

Figure 15.

16. Mount the alarm bracket to the base of the display wrapper (remove red cover from the two face tape).

17. Place a mark on the hopper to show the center line of the switch then place tape on the hopper lid approximately where the magnet will be mounted. (See Figure 16.)

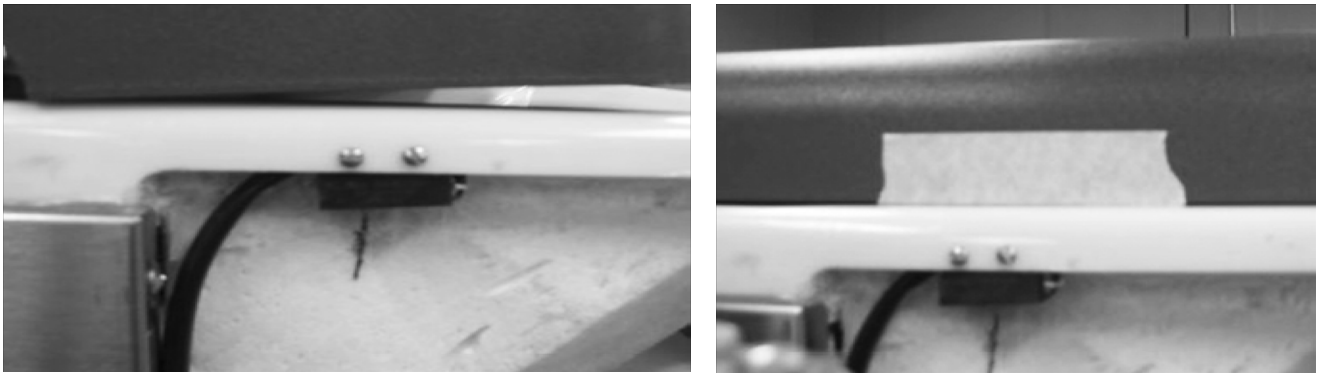

Figure 16.

18. Place the lid on the hopper and slide it forward as far as possible then draw a line even with the line on the hopper. Push the lid to the rear as far as possible and draw a line even with the line on the hopper. The mid-point of these two lines is the center point of the magnet. (See Figure 17.)

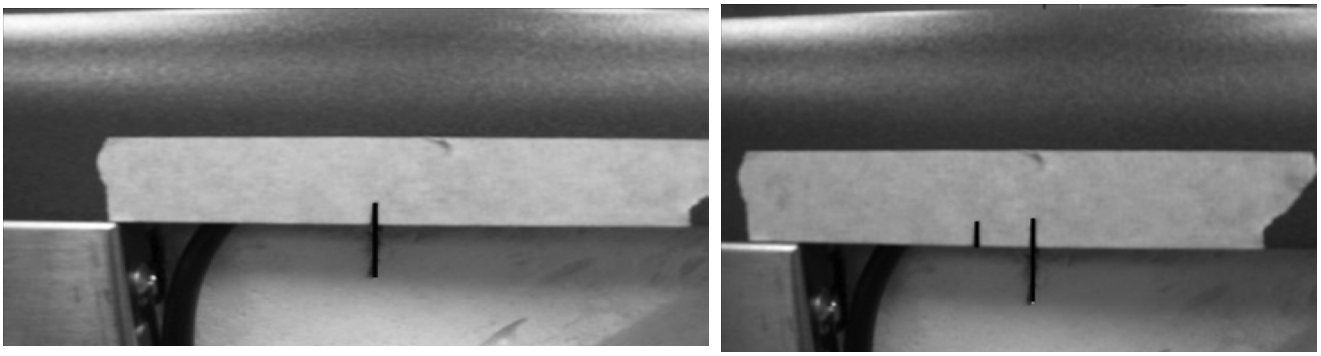

Figure 17.

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19. The magnet is mounted on the inside of the cover and flush to the bottom of the cover and the protruding magnet faces the hopper and switch. (See Figure 18.)

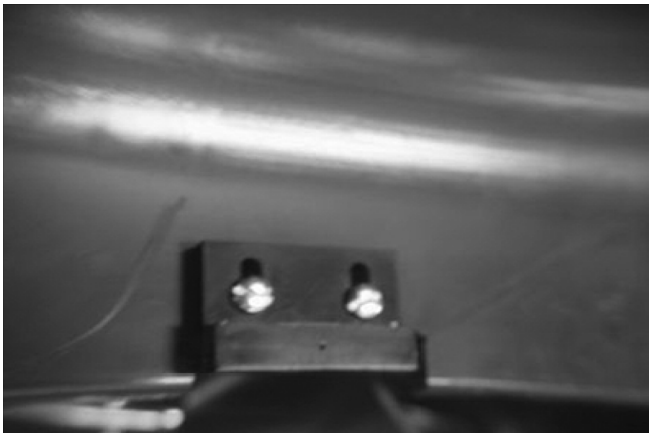

Figure 18.

20. When the ABS is activated the alarm should sound and the agitator is disabled if the lid is removed. With the lid in place the agitator functions normally and the alarm is disabled. Move the lid to the front, rear and side positions to see of any adjustments are required.

21. Prior to installing the lid holder, a notch must be added to the top flange. (See Figure 19.)

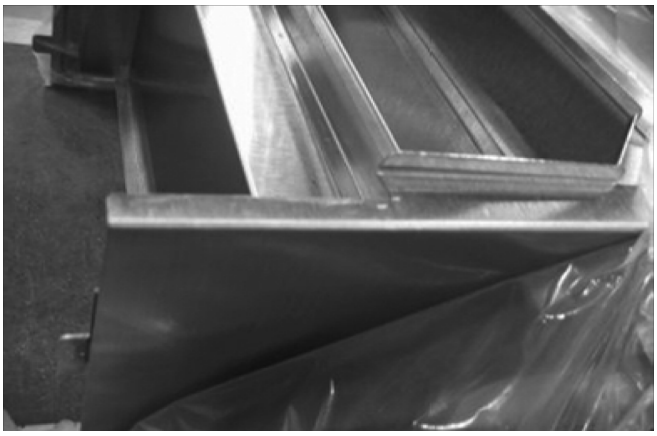

Figure 19.

22. The notch is 12.75 mm (0.5 in.) X 69.85 mm (2.75 in.).

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