



# B.A.S.I.S. Locks Magnetic Stripe Control Electronics Board Replacement Kit Instructions

## Overview

These instructions describe how to replace the magnetic stripe control electronics board in your B.A.S.I.S. Mortise Lock (35HG or 35HBV) Cylindrical Lock (93KG–95KG or 93KBV–95KBV), or Exit Hardware Trim (EXG or EXBV).

## Components checklist

In addition to these instructions, this kit (part number 1833529 or 1833487) contains:

- 1 B.A.S.I.S. G magnetic stripe control electronics board  
*or*
- 1 B.A.S.I.S. V magnetic stripe control electronics board
- 2 Outside escutcheon gaskets (one for mortise or cylindrical locks and one for exit hardware trim (EHT))
- 1 Temporary operator card
- 5 Screws (used only for EHT)
- 1 Lift finger screw (used only for EHT)
- 1 Jumper

## Tasks to perform for cylindrical or mortise electronic locks

**Note:** For tasks to perform on EX Series exit hardware trim, see page 3.

### A Remove inside and outside escutcheons from door

For instructions, see the *B.A.S.I.S. G Service Manual* (T63300) or the *B.A.S.I.S. V Service Manual* (T61805).

### B Remove old escutcheon gasket and electronics board

**Caution:** Before you handle the electronics board or any component connected to it, make sure that you are properly grounded using an electrostatic discharge (ESD) protection kit! Touching the board without proper grounding can damage sensitive electronics components—even if you don't notice any static discharge!

- 1 Remove the gasket from the outside escutcheon and discard the gasket.

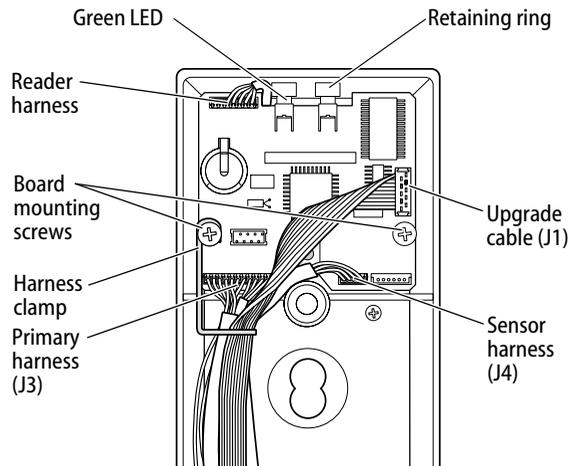


Figure 1 Disconnecting and reconnecting the wire harnesses

- 2 Loosen the electronics board mounting screw that holds the harness clamp and remove the clamp. Save the clamp.
- 3 Disconnect the upgrade cable, sensor harness (EV, FV, and LV function mortise locks), and primary harness from the electronics board (Figure 1).
- 4 Remove and save the electronics board mounting screws.
- 5 Disconnect the reader harness from the electronics board. Set aside the electronics board.

**C Install new electronics board and escutcheon gasket**

- 1 Remove the backup battery tab to turn on the backup battery.

**Caution 1: For the lock to operate properly, you must remove the backup battery tab.**

**Caution 2: Do not connect the battery pack before you have removed the backup battery tab. Doing so may cause the lock to malfunction.**

- 2 Firmly connect the reader harness to the connector on the upper-left corner of the new electronics board. The connector should snap into place (Figure 1).
- 3 Route the reader harness so it fits to the side of the green LED.
- 4 Position the electronics board in the escutcheon so the LEDs fit into the retaining rings.
- 5 Install the two electronics board mounting screws, but do not tighten the screw for the harness clamp.
- 6 Connect the wire harnesses to the electronics board (Figure 1):
  - a Connect the primary wire harness to the J3 connector.
  - b Connect the sensor harness to the J4 connector (EV, FV, and LV function mortise locks).
  - c Connect the upgrade cable to the J1 connector.
- 7 Slide the harness clamp under the loosened electronics board mounting screw.
- 8 Position the primary harness, sensor harness, and upgrade cable under the clamp (Figure 1).
- 9 Tighten the electronics board mounting screw.
- 10 Slide the new escutcheon gasket onto the upper escutcheon post. Press the gasket into place on the

edge of the escutcheon so the electronics board is covered.

**D Reinstall inside and outside escutcheons on door**

For instructions, see the *B.A.S.I.S. G Service Manual* or the *B.A.S.I.S. V Service Manual*.

**Note:** Skip to page 5, Test lock for proper operation.

**Tasks to perform for EX Series Exit Hardware Trim**

**A Remove the escutcheon from door**

For instructions, see the *B.A.S.I.S. G Service Manual* (T63300) or the *B.A.S.I.S. V Service Manual* (T61805).

**B Remove old escutcheon gasket, mounting plate, lift finger, and electronics board**

**Caution:** Before you handle the electronics board or any component connected to it, make sure that you are properly grounded using an electrostatic discharge (ESD) protection kit! Touching the board without proper grounding can damage sensitive electronics components—even if you don't notice any static discharge!

- 1 Unscrew the six mounting plate standoffs from the mounting plate (Figure 2).
- 2 Remove the gasket from the escutcheon and discard the gasket.
- 3 Remove the lift finger:
  - a Note the orientation of the lift finger.
  - b Remove the lift finger screw and discard.
  - c Remove the washer and lift finger.
- 4 Remove the mounting plate (Figure 3):
  - a Cut the cable tie and discard.
  - b Remove the five screws and discard.
  - c Carefully remove the mounting plate.
- 5 Disconnect the primary harness from the electronics board (Figure 1).
- 6 Remove and save the electronics board mounting screws.
- 7 Disconnect the reader harness from the electronics board. Set the electronics board on a surface protected from electrostatic discharge.

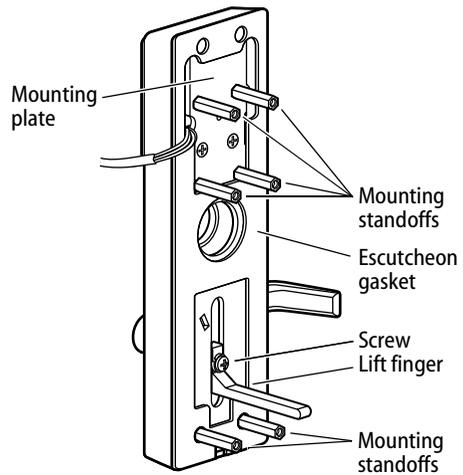


Figure 2 Removing and reinstalling the mounting standoffs, gasket, and lift finger

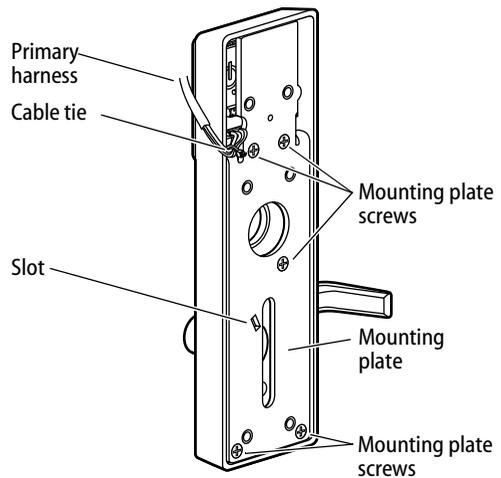
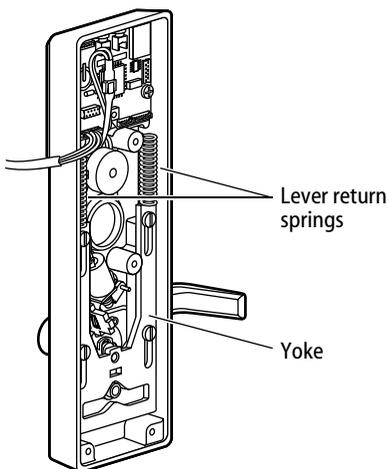


Figure 3 Removing and reinstalling the mounting plate



**Figure 4** Removing and reinstalling lever return springs

### **C Install new electronics board and escutcheon gasket**

1 Remove the backup battery tab to turn on the backup battery.

**Caution 1: For the lock to operate properly, you must remove the backup battery tab.**

**Caution 2: Do not connect the battery pack before you have removed the backup battery tab. Doing so may cause the lock to malfunction.**

2 Firmly connect the reader harness to the connector on the upper-left corner of the new electronics board. The connector should snap into place (Figure 1).

3 Route the reader harness so it fits to the side of the green LED.

4 Position the electronics board in the escutcheon so the LEDs fit into the retaining rings.

5 Install the two electronics board mounting screws, but do not tighten the screw for the harness clamp.

6 Reconnect the primary harness to the J3 connector (Figure 1).

7 Tighten the electronics board mounting screw.

8 With posts on the mounting plate inserted in the lever return springs, slide the mounting plate into the escutcheon. See Figure 4. Make sure that the locking plate fits into the slot in the mounting plate. Secure with the five new screws. Route the primary harness against the mounting plate post and secure the harness to the post with a cable tie. See Figure 3.

9 Position the lift finger on the escutcheon in the orientation noted in step 3a on page 3.

10 Position the washer on the lift finger screw. Tightly secure the lift finger with the lift finger screw (25–30 foot-pounds of torque).

11 Starting at the bottom of the gasket, peel away the protective backing a small amount at a time while unrolling the gasket into position on the escutcheon. Press the gasket into place.

12 Screw the six mounting standoffs onto the mounting plate (Figure 2).

### **D Reinstall the escutcheon on door**

For instructions, see the *B.A.S.I.S. G Service Manual* or the *B.A.S.I.S. V Service Manual*.

## **Tasks to perform for all B.A.S.I.S. locks and EX Series Exit Hardware Trim**

### **E Test lock for proper operation**

To test the lock for proper operation before the lock is programmed, use the temporary operator card that came with the lock. This card is for temporary use only. After permanent cards have been programmed for the lock, the temporary card should be deleted.

- 1 Use the temporary operator card to activate the lock.

When the lock detects the presence of a card for the first time, the lock performs a series of diagnostic self-tests. If no problem is detected, the lock responds with 4 red LED flashes, simultaneous with 4 green LED flashes and 4 short tones.

If a problem is detected, the lock's red LED and green LED simultaneously flash in a repeating pattern (and no tones sound). The lock's control electronics board must be replaced. For instructions, see the *B.A.S.I.S. G Service Manual* or the *B.A.S.I.S. V Service Manual*.

- 2 Use the temporary operator card to access the lock. The green light flashes and the locking mechanism unlocks.
- 3 Turn the lever and open the door.

**If the mechanism doesn't unlock, refer to the following table.** For additional troubleshooting instructions, see the *B.A.S.I.S. G Service Manual* or the *B.A.S.I.S. V Service Manual*.

<b>LEDs</b>	<b>Sounder</b>	<b>You should</b>
Single red flash	—	Use the card at a moderate speed.
Red flashes	3 short tones	Use the temporary operator card provided with the lock.
Green flashes	—	Check the motor connection.
—	—	Check the battery connection.

### **For locks with key override**

Insert and turn the key to unlatch the door.

### **For locks with deadbolt**

From the inside of the door, turn the turn knob and make sure that the deadbolt operates properly.





