For installation assistance, contact SARGENT at 800-810-WIRE (9473)
# Table of Contents

1. Warning ................................................................. 4
2. Replacement Instructions ........................................... 5
3. 57- Troubleshooting ................................................ 8
4. 59- Troubleshooting .................................................. 11
Changes or modifications to this device not expressly approved by ASSA ABLOY could void the user’s authority to operate the equipment.

FCC:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada:
This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

‘This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.’

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d’Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d’un type et d’un gain maximal (ou inférieur) approuvé pour l’émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l’intention des autres utilisateurs, il faut choisir le type d’antenne et son gain de sorte que la puissance isotope rayonnée équivalente (p.i.r.e.) ne dépasse pas l’intensité nécessaire à l’établissement d’une communication satisfaisante.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and SARGENT Manufacturing makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.
1. Ensure power to device is disconnected.
2. Carefully disconnect all connectors (Fig. 1).
3. Remove insert assembly from rail mounting assembly.
4. Loosen set screw by turning counter-clockwise using 5/64" allen wrench.
5. Extract and slide cylinder through spring and collar.

When replacing cylinder, slide cylinder through spring then collar, taking care to orient cylinder as shown.

**Cylinder Orientation**

See illustration on circuit board for correct orientation of cylinder/cam when installing.
Note that proper position of cam allows for removal of key.

**NOTE:** Use caution when removing insert assembly to avoid damaging the rail harness connected to the PCB module assembly.

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Part Number</th>
<th>Description</th>
<th>PCB Module Assembly Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>59-</td>
<td>52-4837</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>59- BC-</td>
<td>52-4838</td>
<td>BOCA (30 seconds)</td>
<td></td>
</tr>
<tr>
<td>57-</td>
<td>52-4830</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>57- BC-</td>
<td>52-4831</td>
<td>BOCA (30 seconds)</td>
<td></td>
</tr>
</tbody>
</table>
NOTES:

With Rim, Mortise and Vertical Rod Exit Devices:

When jumper is missing or in wrong position, the Yellow Diagnostic LED turns ON. To locate (J5) jumper, remove Insert Assembly and Insert Assembly Plate:

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>JUMPER</th>
</tr>
</thead>
<tbody>
<tr>
<td>57-</td>
<td>J5-1 &amp; J5-2</td>
</tr>
<tr>
<td>59-STD</td>
<td>J5-2 &amp; J5-3</td>
</tr>
</tbody>
</table>

Dip Switch Settings

Installer should note DIP switch settings of module being replaced to ensure same settings are made for replacement module.

NOTE: Use caution when removing insert assembly to avoid damaging the rail harness connected to the PCB module assembly.
__Replacement Instructions (Continued)\

S2-1  **Nuisance Delay** - (Field selectable 0 or 1 second) A one second nuisance delay can be enabled by setting Dip Switch (S2-1) to the “On” position. When nuisance delay is enabled, the unit will require the push bar to be depressed for more than one second in order to trigger an irreversible alarm condition. If the push bar is released before the 1 second has elapsed, the unit will go back into the “delayed egress mode” and the alarm will not sound. Nuisance delay is set to “On” position at factory.

If the Dip Switch S2-1 is in the “Off” position, there will be no nuisance delay and alarm horn will sound immediately when the push bar is depressed.

S2-2  **Nuisance Audible** - (Field selectable on or off) An audible horn is enabled by setting Dip Switch S2-2 to the “On” position. The internal horn will sound as soon as the push bar is depressed, signaling that the device is armed. If the pushbar is held down for more than 1 second, an irreversible alarm condition begins. If Dip Switch S2-2 is in the “Off” position, the horn will not sound during nuisance delay.

Nuisance audible is set to “On” position at factory to sound horn when rail is depressed during nuisance delay.

S2-3 & S2-4  **Momentary Egress Time** - Used to select the momentary egress time of 5, 10, 20 or 40 seconds. This switch is preset at the factory for five seconds.

S2-5  **Reverse LED** - Field selectable green or red. When S2-5 is “Off” the exit device LED is green when in armed mode (default) and red when in maintained or momentary egress mode. When S2-5 is “On” the exit device LED is red when in armed mode and green when in maintained or momentary egress.

S2-6  **Handing** - Field selectable LHRB or RHRB. For a LHRB exit device S2-6 is “Off” for the top LED on the insert to be used when the device is armed. For a RHRB exit device S2-6 is “On” for the top LED on the insert to be used when the device is armed.
3 57- Troubleshooting

The tables below are provided to assist in the installation and troubleshooting of the 57- exit device.

The following table lists the status and function of the (2) Green/Red LEDs located on the rail insert.

<table>
<thead>
<tr>
<th>Visible Insert LEDs</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green (Default) or Red ON only</td>
<td>Rail is Armed - Delayed Egress Mode</td>
</tr>
<tr>
<td>Red (Default) or Green ON only</td>
<td>Rail is Disarmed – Maintained (Free) Egress Mode</td>
</tr>
<tr>
<td>Red (Default) or Green &quot;Flashing&quot;</td>
<td>Rail is in Momentary Egress Mode</td>
</tr>
<tr>
<td>Green and Red &quot;Alternate&quot;, Rail Horn is ON</td>
<td>Rail is in violation</td>
</tr>
</tbody>
</table>

**IMPORTANT:** Always remove power to the rail before disconnecting or reconnecting connectors at the 57- PCB module assembly. Disconnect the 24VDC Power Supply or remove the Red (+24VDC) power wire at the rail.

The diagnostic LEDs are visible after install with end cap removed.

Refer to the following table and notes for an explanation of each LED’s function.

<table>
<thead>
<tr>
<th>Diagnostic LEDs</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>ON – “Jumper is missing or in wrong position</td>
</tr>
<tr>
<td></td>
<td>OFF – should always be OFF</td>
</tr>
<tr>
<td>Green (Magnet)</td>
<td>ON – External Magnet is energized (+24VDC from main board)</td>
</tr>
<tr>
<td></td>
<td>OFF – External Magnet is de-energized</td>
</tr>
<tr>
<td>Red (Push Rail Switch)</td>
<td>ON – Rail Push Bar is depressed</td>
</tr>
<tr>
<td></td>
<td>OFF – Rail Push Bar is released</td>
</tr>
<tr>
<td>Orange (Door Status Switch)</td>
<td>ON – Door Status Switch is open. Door is open/violated.</td>
</tr>
<tr>
<td></td>
<td>OFF – Door Status Switch is closed. Door is closed and secure.</td>
</tr>
</tbody>
</table>

*See Jumper position and function table on following page
3 57- Troubleshooting (Continued)

NOTES
With Rim, Mortise and Vertical Rod Exit Devices:
When jumper is missing or in wrong position, the Yellow Diagnostic LED turns ON. To locate (J5) jumper, remove Insert Assembly and Insert Assembly Plate:

1. When the rail is armed (in Delayed Egress Mode) and the door is closed and latched, the Green (default) or Red LED and the Green Diagnostic LED should be ON only. All other diagnostic LEDs should be OFF.
2. With the rail armed, depressing the rail push bar slightly will turn the Red Diagnostic LED ON. The rail should go into alarm immediately (no nuisance delay) or after being pressed in for 1 second (1-second nuisance delay). The rail will be in the irreversible alarm mode – Insert Green and Red LED flash and the rail horn sounds. After a standard delay of 15 seconds (or 30-second optional delay), the external magnet de-energizes and passage is allowed. The rail horn will continue to sound until the rail is reset either with a key or remotely.
3. When a Door Status switch is used and the door is opened the Orange Diagnostic LED will turn ON, which indicates that the door is not secure. When NOT using a Door Status switch, the Blue wire should be connected to Black (-Return). In this case, the LED will always be OFF.

MINIMUM REQUIREMENTS FOR ARMING RAIL (DELAYED EGRESS MODE)

* To Arm 57- Rail– The Blue Door Status Switch (DSS) wire must be connected directly to the Black wire (-Return) or the contacts must be closed as shown. The White wire (formerly Green) must be connected to the Black wire (-Return) as shown.

* Only these (3) wires are needed to arm rail along with the correct LBM switch and Push Rail Switch position as shown before

** Fire Alarm Contact (if required)
3 57- Troubleshooting (Continued)

Symptom / Failure
* Refer to Diagnostic LED Table/Description and Minimum Requirements to Arm Rail sections.

A. Rail won’t arm - (Armed LED won’t turn ON / Horn sounds immediately or after a delay) -
When trying to arm, the rail goes into alarm immediately after momentary egress times out or after a short delay after the momentary egress times out.

- Are the Yellow, Red and Orange Diagnostic LEDs OFF?
  **YES** – Replace defective PCB module assembly.
  **NO** – All of these LEDs should be OFF. Troubleshoot according to which LED is ON. If any LED stays ON after troubleshooting, consult 1-800-810-WIRE

B. Rail won’t arm - (Armed LED won’t turn ON / Horn stays OFF) -
- The rail is receiving an external inhibit signal
- The Orange wire is connected to Black wire (-Return) through external device or directly
- The rail is in fire alarm condition

C. Rail arms, but the external electromagnet is not energized when pushbar is depressed - (Armed LED and Green Diagnostic LED are ON) -
- Troubleshoot external electromagnet or external wiring. If wires can’t be repaired, consult 1-800-810-WIRE

D. Rail Arms, but will not go into alarm when depressing push bar -
- Does the Red Diagnostic LED turn ON when depressing push bar?
  **YES** – Replace defective PCB module assembly.
  **NO** – The push rail hall switch is defective or out of activation range. If wires can’t be repaired or if switch can’t be adjusted (on rails which allow adjustment), consult 1-800-810-WIRE.

E. Horn sounds / LEDs flash RED then GREEN and sequence every second. No diagnostic LEDs are on -
- Rail may or may not arm prior to this error code
- Check harnesses are connected to controller PCBs
- Push rail hall switch circuit defective or out of activation range. Consult 1-800-810-WIRE

**IMPORTANT:** RAIL IS NOT ARMED WHEN IN THIS CONDITION!

**ATTENTION:**
Electrified Trim applications require a separate raceway & power transfer device. Installation of conductors or harnesses (by others) through the exit device rail is prohibited as it could lead to product performance issues up to and including product failure.
### 59- Troubleshooting

The tables below are provided to assist in the installation and troubleshooting of the 59- Electroguard™ exit device.

The following table lists the status and function of the (2) Green/Red LEDs located on the rail insert.

<table>
<thead>
<tr>
<th>Visible Insert LEDs</th>
<th>Function</th>
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<tbody>
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<td>Red (Default) or Green “Flashing”</td>
<td>Rail is in Momentary Egress Mode</td>
</tr>
<tr>
<td>Green and Red “Alternate”, Rail Horn is ON</td>
<td>Rail is in violation</td>
</tr>
</tbody>
</table>

**IMPORTANT:** Always remove power to the rail before disconnecting or reconnecting connectors at the 59- PCB module assembly. Disconnect the 24VDC Power Supply or remove the Red (+24VDC) power wire at the rail.

The diagnostic LEDs are visible after install with end cap removed.

Refer to the following table and notes for an explanation of each LED’s function.

<table>
<thead>
<tr>
<th>Diagnostic LEDs</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow (Latch Bolt/Rod Monitor)</td>
<td>ON – Latch Bolt or Vertical Rods are retracted</td>
</tr>
<tr>
<td></td>
<td>OFF – Latch Bolt or Vertical Rods are extended/latched</td>
</tr>
<tr>
<td>Green (Magnet)</td>
<td>ON – Rail Magnet is energized (+24VDC from main board)</td>
</tr>
<tr>
<td></td>
<td>OFF – Rail Magnet is de-energized</td>
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<tr>
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<tr>
<td>Orange (Door Status Switch)</td>
<td>ON – Door Status Switch is open. Door is open/violated</td>
</tr>
<tr>
<td></td>
<td>OFF – Door Status Switch is closed. Door is closed and secure</td>
</tr>
</tbody>
</table>
### 59- Troubleshooting (Continued)

**NOTES**

1. **With Rim and Mortise type exit devices** - When the latch bolt is retracted about half-way, the **Yellow Diagnostic LED** turns ON. The LED will be ON from half-way to the fully retracted position; otherwise the LED will be OFF.

2. **With Vertical Rod type exit devices** – When the rods are retracted and the door is opened, the Rod Monitor Switch is activated and the **Yellow Diagnostic LED** turns ON. The LED will remain ON until the door closes and the rods are reset and engaged.

3. **When the rail is armed (in Delayed Egress Mode) and the door is closed and latched, the **Green (default) or Red LED** and the **Green Diagnostic LED** should be ON only. All other LEDs should be OFF.

4. **With the rail armed, depressing the rail push bar slightly will turn the Red Diagnostic LED ON. The rail should go into alarm immediately (no nuisance delay) or after being pressed in for 1 second (1-second nuisance delay). The rail will be in the irreversible alarm mode – **Insert Green and Red LED** and the rail horn sounds. After a standard delay of 15 seconds (or 30-second optional delay), the rail magnet de-energizes and passage is allowed. The rail horn will continue to sound until the rail is reset with a key.

5. **When a Door Status switch is used and the door is opened the Orange Diagnostic LED will turn ON, which indicates that the door is not secure. When NOT using a Door Status switch, the Blue wire should be connected to Black (-Return). In this case, the LED will always be OFF.**

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**MINIMUM REQUIREMENTS FOR ARMING RAIL (DELAYED EGRESS MODE)**

* **To Arm 59- Rail** – The **Blue Door Status Switch (DSS)** wire must be connected directly to the Black wire (-Return) or the contacts must be closed as shown. The White wire (formerly Green) must be connected to the Black wire (-Return) as shown.

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**FUNCTION** | **JUMPER**
--- | ---
59-STD | J5-2 & J5-3
57- | J5-1 & J5-2
Symptom / Failure

* Refer to Diagnostic LED Table/Description and Minimum Requirements to Arm Rail sections.

A. Rail won’t arm - (Armed LED won’t turn ON / Horn sounds immediately or after a delay) -
When trying to arm, the rail goes into alarm immediately after momentary egress times out or after a short delay after the momentary egress times out.

- Are the Yellow, Red and Orange Diagnostic LEDs OFF?
  \*YES – Replace defective PCB module assembly.
  \*NO – All of these LEDs should be OFF. Troubleshoot according to which LED is ON. If any LED stays ON after troubleshooting, consult 1-800-810-WIRE

B. Rail won’t arm - (Armed LED won’t turn ON / Horn stays OFF) -
- The rail is receiving an external inhibit signal
- The Orange wire is connected to Black wire (-Return) through external device or directly
- The rail is in fire alarm condition

C. Rail Arms, but the push bar does not guard (hold back) when depressed - (Armed LED and Green Diagnostic LED are ON) -
- Defective push mechanism, rail magnet or open magnet wires. If wires can’t be repaired, consult 1-800-810-WIRE

D. Rail Arms, but will not go into alarm when depressing push bar -
- Does the Red Diagnostic LED turn ON when depressing push bar?
  \*YES – Replace defective PCB module assembly.
  \*NO – The push rail hall switch is defective or out of activation range. If wires can’t be repaired or if switch can’t be adjusted (on rails which allow adjustment), consult 1-800-810-WIRE

E. Horn sounds / LEDs flash RED then GREEN and sequence every second. No diagnostic LEDs are on -
- Check harnesses are connected to controller PCBs
- Push rail hall switch circuit defective or out of activation range. Consult 1-800-810-WIRE

\*IMPORTANT: RAIL IS NOT ARMED WHEN IN THIS CONDITION!

\*ATTENTION:
Electrified Trim applications require a separate raceway & power transfer device. Installation of conductors or harnesses (by others) through the exit device rail is prohibited as it could lead to product performance issues up to and including product failure.
Notes:

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