IS Barrier Replacement Kit
for Ex d ib ICS Stations

Model 12823-001

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General Information

The Model 12823-001 IS (Intrinsically Safe) Barrier Replacement Kit is intended for use in replacing the handset IS Barrier assembly on GAI-Tronics Ex d ib ICS Stations. This kit consists of the following components:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Handset Safety Barrier PCBA Assembly</td>
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<tr>
<td>2</td>
<td>Screw, 6-32 × 5/16-inch PHMS</td>
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Installation

⚠️ WARNING ⚠️ Disconnect the equipment from the supply circuit before opening.

Important Safety Instructions

1. Read, follow and retain instructions. – All safety and operating instructions should be read and followed before opening the unit. Retain the instructions for future reference.

2. Heed warnings – Adhere to all warnings on the unit and in the operating instructions.

3. Servicing – Do not attempt to service this unit by yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

⚠️ WARNING ⚠️ Before performing any of the following adjustments, remove all power from the station.
Removing the Old Handset Safety IS Barrier Assembly PCBA

1. Remove all cover bolts from the enclosure. Swing the front door open to access the internal printed circuit board assemblies (PCBAs).

2. Disconnect the connection between the Handset IS Barrier and the Main PCBA on the front cover. Remove the two screws holding the handset barrier assembly to the front cover. Set the screws aside for re-assembly. See Figure 1.

3. Disconnect the four handset wires from the IS Barrier assembly and make note of the connection locations.

Figure 1.
Installing the New Handset Safety IS Barrier Assembly PCBA

1. Connect the handset wires to the new IS Barrier assembly. See the connection detail in Figure 2 below.

![Figure 2. Connection Detail](image)

2. Place the new IS Barrier assembly into position on the front cover. Secure using the existing screws.

3. Plug the IS Barrier assembly into the mating connector attached to the Main PCBA.

4. Inspect and clean the machined flange joint surfaces of both the cover and the box. Surfaces must be smooth, free of nicks, scratches, dirt or any foreign particle build-up that would prevent a proper seal. Surfaces must seat fully against each other to provide a proper explosion-proof joint. Clean surfaces by wiping with a clean, lint-free cloth.

5. Apply a light coat of Killark “LUBG” lubricant to flange surfaces and close the cover. Install and tighten all cover bolts to 30 ft-lbs. Make certain no cover bolts are omitted. Use only those bolts supplied with the enclosure.

6. Insure proper grounding to protective earth.

7. Reapply power to the station.
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**Equipment.** GAI-Tronics warrants for a period of one (1) year from the date of shipment, that any GAI-Tronics equipment supplied hereunder shall be free of defects in material and workmanship, shall comply with the then-current product specifications and product literature, and if applicable, shall be fit for the purpose specified in the agreed-upon quotation or proposal document. If (a) Seller’s goods prove to be defective in workmanship and/or material under normal and proper usage, or unfit for the purpose specified and agreed upon, and (b) Buyer’s claim is made within the warranty period set forth above, Buyer may return such goods to GAI-Tronics’ nearest depot repair facility, freight prepaid, at which time they will be repaired or replaced, at Seller’s option, without charge to Buyer. Repair or replacement shall be Buyer’s sole and exclusive remedy. The warranty period on any repaired or replacement equipment shall be the greater of the ninety (90) day repair warranty or one (1) year from the date the original equipment was shipped. In no event shall GAI-Tronics warranty obligations with respect to equipment exceed 100% of the total cost of the equipment supplied hereunder. Buyer may also be entitled to the manufacturer’s warranty on any third-party goods supplied by GAI-Tronics hereunder. The applicability of any such third-party warranty will be determined by GAI-Tronics.

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If the equipment requires service, contact your Regional Service Center for a return authorization number (RA#). Equipment should be shipped prepaid to GAI-Tronics with a return authorization number and a purchase order number. If the equipment is under warranty, repairs or a replacement will be made in accordance with the warranty policy set forth above. Please include a written explanation of all defects to assist our technicians in their troubleshooting efforts.

Call 800-492-1212 (inside the USA) or 610-777-1374 (outside the USA) for help identifying the Regional Service Center closest to you.