



GAI-TRONICS®
A HUBBELL COMPANY

Reed Switch Replacement Kit for Hazardous Area ICS & SP2 Stations

Model 12833-001

Confidentiality Notice

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General Information

The Model 12833-001 reed switch assembly replacement kit is designed to replace a damaged reed switch in a Hazardous area ICS or SP2 station. This kit includes the following components:

Qty	Description
1	Reed switch assembly
1	#6-32 set screw

Installation

Important Safety Instructions

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

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



Attachments—Attachments not recommended by the product manufacturer should not be used, as they may cause hazards.

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**  **Do not disconnect equipment while energized.**

Opening the Station

Refer to Pub. 42004-723L2 (Hazardous ICS stations) or Pub. 42004-782L2 (Hazardous SP2 stations) for additional information about the internal components in these units.

 **WARNING**  **Before performing any of the following settings and adjustments, remove all power from the station.**

 **WARNING**  **To reduce the risk of hazardous atmospheres, disconnect the equipment from the supply circuit before making any adjustments to the amplifier's handset level.**

1. Remove all cover bolts from the enclosure.
2. Swing the front door open to access the internal PCBAs.

Installing the Reed Switch Assembly

The reed switch assembly is located beneath the PCBAs on the front cover.

1. Unplug the reed switch cable assembly at J3 and J4 on the Main PCBA (SP2) or E5 and E6 on the Main PCBA (ICS).
2. Unplug any cable assemblies as needed to remove the PCBAs from the front cover.
3. Remove the PCBAs from the front cover and set aside.
4. Loosen the #6-32 set screw in the side of the assembled bushing to remove the reed switch assembly.
5. Slide the new reed switch assembly into the bushing, ensuring it is fully seated in the bushing.
6. Tighten the set screw in the bushing.
7. Reattach the PCBAs to the front cover and plug in any cable assemblies that were removed.
8. Plug the new reed switch cable assembly into the Main PCBA.

Attaching the Front Cover

1. After all adjustments have been completed, inspect and clean the machined flange surfaces of the cover and the box. The surfaces must be smooth, free of nicks, scratches, dirt, or any other foreign particle build-up that may prevent a proper seal. Surfaces must seat fully against each other to provide a proper explosion-proof joint. Clean the surfaces by wiping them with a clean lint-free cloth.
2. Apply a light coating of Killark "LUBG" lubricant to the flange surfaces and close the cover. Install and tighten all cover bolts to 30 lb-ft (40.67 N·m). Make certain that no cover bolts are omitted. Use only those bolts that were supplied with the enclosure.
3. Reapply power to the station.

Please refer to the Killark Installation, Operation, and Maintenance Data Sheet enclosed with the unit for additional information. The Killark enclosures used in these products are EXB-8106 N34 series enclosures.

Warranty

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.

Services. Any services GAI-Tronics provides hereunder, whether directly or through subcontractors, shall be performed in accordance with the standard of care with which such services are normally provided in the industry. If the services fail to meet the applicable industry standard, GAI-Tronics will re-perform such services at no cost to buyer to correct said deficiency to Company's satisfaction provided any and all issues are identified prior to the demobilization of the Contractor's personnel from the work site. Re-performance of services shall be Buyer's sole and exclusive remedy, and in no event shall GAI-Tronics warranty obligations with respect to services exceed 100% of the total cost of the services provided hereunder.

Warranty Periods. Every claim by Buyer alleging a defect in the goods and/or services provided hereunder shall be deemed waived unless such claim is made in writing within the applicable warranty periods as set forth above. Provided, however, that if the defect complained of is latent and not discoverable within the above warranty periods, every claim arising on account of such latent defect shall be deemed waived unless it is made in writing within a reasonable time after such latent defect is or should have been discovered by Buyer.

Limitations / Exclusions. The warranties herein shall not apply to, and GAI-Tronics shall not be responsible for, any damage to the goods or failure of the services supplied hereunder, to the extent caused by Buyer's neglect, failure to follow operational and maintenance procedures provided with the equipment, or the use of technicians not specifically authorized by GAI-Tronics to maintain or service the equipment. **THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES AND REMEDIES, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

Return Policy

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.