



GAI-TRONICS® CORPORATION
A HUBBELL COMPANY

Field Maintenance Bulletin

Handset/Cord Replacement Procedure

Part No. 10108-107, 10108-10715 & 10108-10725

FOR MODEL 780 AND 7805 SERIES DIV. 1 HAZARDOUS AREA STATIONS

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Tools Required

- 7/16-inch hex socket or combination wrench
- Phillips screwdriver
- Pipe wrench or channel-lock pliers
- Hammer
- Nail set or hardened 1/8-inch diameter rod, approximately 4 inches long
- Torque wrench

Liability Disclaimer

NOTICE: Follow all the steps in the procedure outlined below to ensure personnel safety, to avoid equipment damage, and to maintain agency approvals.

Procedure

⚠ WARNING ⚠ **Disconnect power before making any repairs to a hazardous area station.**

NOTE: The internal outer edge of the front cover is machined. Take precautions to ensure that the finish is preserved. If damaged, the explosion-proof integrity can be lost.

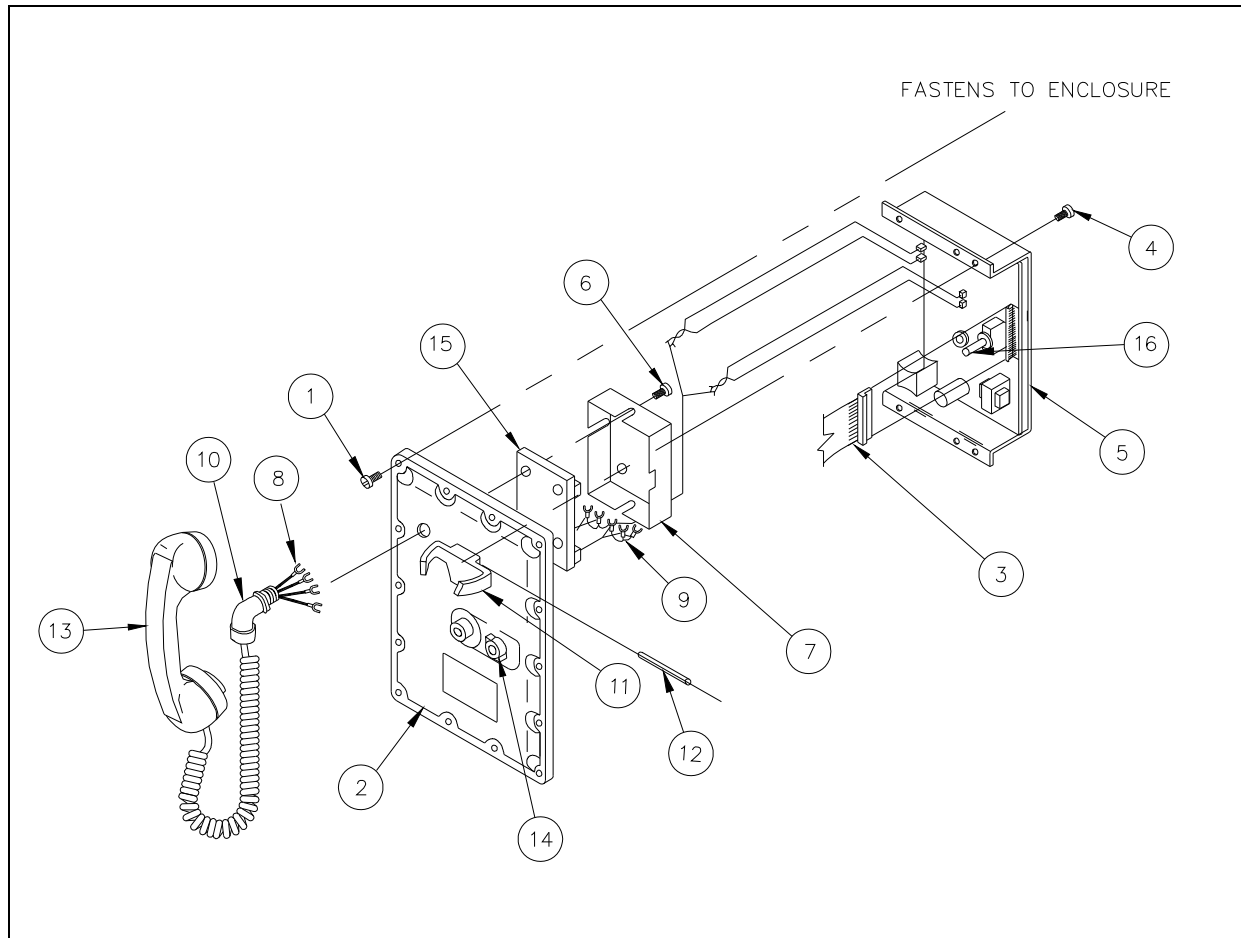


Figure 1. Replacement Handset with Cord and Amplifier Assembly

1. Turn off power.
2. Remove the 14 bolts (Ref. 1 typ.) from the front cover (Ref. 2) using a socket or a combination wrench.
3. Lift off the front cover, and disconnect the flat ribbon cable (Ref. 3).
4. Remove the four screws (Ref. 4) that hold the amplifier assembly (Ref. 5) to the front cover (Ref. 2).

5. Remove the four screws (Ref. 6 typ.) that hold the cover (Ref. 7) on the safety barrier (Ref. 15). Remove the cover. Disconnect the four wires from the safety barrier to the amplifier assembly (Ref. 9) and the four handset cord wires (Ref. 8) from the safety barrier.
6. In order to rotate and remove the elbow (Ref. 10), the station handset hook (Ref. 11) must be removed by driving out the metal retaining pin (Ref. 12).
NOTE: The pin is tapered and can only be removed in one direction by driving it from the elbow side of the hookswitch (when viewed from the front) using a nail set or 1/8-inch diameter rod.
7. Using a pipe wrench or channel-lock pliers, unscrew the elbow (Ref. 10) of the broken handset assembly (Ref. 13).
8. Install the new handset assembly by feeding the wires on the elbow end of the handset assembly through the threaded hole.
9. Secure the elbow (Ref. 10) to the front cover (Ref. 2) with a wrench. The handset elbow bushing must be secured with 5 to 7 full threads. This is critical to the explosion-proof integrity. When complete, the elbow should point downward.
10. Reconnect the four handset wires (Ref. 8) on the safety barrier inside the front cover to the terminals labeled **HANDSET TERMINALS**. Reconnect the amplifier assembly wires (Ref. 9) to the terminals labeled **AMPLIFIER TERMINALS**. Ensure that the wire colors match the terminal markings.
11. Replace the safety barrier cover (Ref. 7) and secure with the four screws (Ref. 6 typ.).
12. Replace the amplifier assembly (Ref. 5) on the front cover, aligning the flat of the party line knob shaft (Ref. 14) with the switch shaft (Ref. 16). Replace the four screws (Ref. 4 typ.).
13. Replace the handset hook and pin (Ref 11 and 12).
14. Carefully inspect the front cover's machined edge for chips or gouges that could compromise explosion-proof integrity.
15. Connect the flat ribbon cable (Ref. 3) and mount the station's front cover (Ref. 2) onto the enclosure and replace the 14 bolts (Ref. 1 typ.). Tighten each to a torque of 8 ft-lb.
16. Restore power and test for proper operation.

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.

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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.