



GAI-TRONICS CORPORATION

Field Maintenance Bulletin

Handset/Cord Repair Procedure

Part# 10108-007, 10108-008 and 10108-009

FOR MODELS 780 AND 7805 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
- Nailset 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.

1. Turn off power.
2. Remove the 14 bolts from the cover using a socket or a combination wrench.
3. Lift off the cover, and disconnect the flat ribbon cable.
4. Remove the 4 screws which hold the amplifier assembly to the cover.

5. Remove the 4 screws that hold the cover on the safety barrier. Remove the cover. Disconnect the 4 handset cord wires from the safety barrier.

6. Remove the pin holding the handset hook and remove the handset hook.

Note: The pin is tapered and can only be removed one way. Strike from the non-splined end.

7. Using a pipe wrench or channel lock pliers, remove the elbow of the broken handset cord.

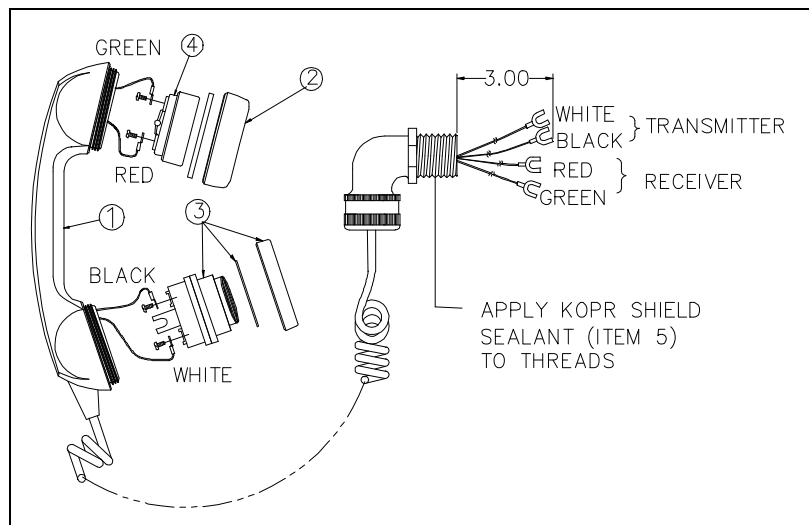


Figure 1. Replacement Handset with Cord

8. Feed wires on the elbow end of the handset cord assembly through the threaded hole. Apply weatherproof sealing material (customer-supplied) to the threads of front cover after wires are fed through the hole.
9. Secure the elbow to the front cover with a wrench. The handset 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 4 handset wires on the barrier inside the front cover. Be certain to match the wire color to the terminal marking. See Figure 1.
11. Replace the cover over the safety barrier. Replace the 4 screws.
12. Reconnect the 4 handset cord wires from the safety barrier to the amplifier assembly.
13. Replace the amplifier assembly on the cover, aligning the flat of the party line knob shaft with the switch shaft. Replace the 4 screws.
14. Replace the handset hook and pin.
15. Inspect the front cover (machined edge) for explosion-proof integrity.
16. Connect the flat ribbon cable and mount the front cover to the enclosure and replace the 14 bolts.
17. Tighten to a torque of 8 ft-lb.
18. Restore power and test for proper operation.

Replacement Handset with Cord		
Parts List for 10108-007, 10108-008, and 10108-009		
Ref. Designator	Part No.	Description
1	13201-002	Handset Handle
2	13204-001	Receiver Cap, Gray
3	12511-001	Dynamic Transmitter and Cap
4	13205-006	Receiver