



**GAI-TRONICS® CORPORATION**  
A HUBBELL COMPANY

# EZ Page Speaker Voice Coil Replacement Kit

Model 12703-001

## Confidentiality Notice

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## General Information

The Model 12703-001 EZ Page Speaker Voice Coil Replacement Kit is used with the following EZ Page Intercom models: GC-AC1, GC-DC1, and GC-AC2. Each kit consists of the speaker voice coil element (4-ohm) only—no other parts are required.

### Recommended Tools

- #1 Phillips screwdriver
- #2 Phillips screwdriver
- Flat blade screwdriver (1/4 × 4 min.)
- Long needle nose pliers
- Flat blade screw starter

### Removal of Old Voice Coil Element

 **WARNING**  **Disconnect power from the unit before opening or servicing the unit.**

**NOTE:** For ease of voice coil disassembly and re-assembly, remove the unit from its mounting and place it on a flat surface.

1. Disconnect power from the unit.
2. Using the #2 screwdriver, remove the six front panel screws that secure the front cover to the housing.
3. Slowly pull the front cover assembly from the rear housing and set aside to the left. Be careful not to disconnect the attached wires.
4. Locate and disconnect the P2 connector (2-conductor speaker connection) from the printed circuit board assembly (PCBA).

5. Using the #1 Phillips screwdriver, remove the center screw securing the nameplate on the speaker cone tip and set the screw and nameplate aside.
6. Using the #2 Phillips screwdriver, remove the three screws holding the sound deflector to the speaker driver housing assembly.
7. Using the flat blade screwdriver, remove the three screws located along the rear of the speaker driver housing assembly. Slowly pull the driver assembly and the attached wires out of the enclosure far enough to allow sufficient room to work. Slide the 3-conductor cable through the enclosure casting hole as necessary.
8. Note the location of wire color connection to the two voice coil terminals: black to terminal 1 and yellow to terminal 2. The terminal numbers are identified in the speaker driver housing assembly adjacent to the connection.
9. Place the driver assembly on its nose.



**Complete the remaining steps, being careful not to damage the driver gasket assembly.**

10. Using the long needle nose pliers, gently remove each wire connection by pulling straight upward and set the wire aside.
11. Using the #2 Phillips screwdriver, remove the two screws securing the supporting strap across the permanent magnet. Set the supporting strap and screws aside.
12. Gently grasp the permanent magnet assembly and pull straight upward.
13. Using the long needle nose pliers, gently grasp each terminal and lift upward slightly to separate the defective coil assembly from the speaker driver housing assembly.
14. Gently separate the gasket from the voice coil for reuse.

## Installment of Replacement Voice Coil



***Extreme care must be used while performing the following steps to avoid damaging the replacement voice coil.***

1. Reinsert the previously removed voice coil gasket into the speaker driver housing assembly.
2. Insert the new replacement voice coil into the speaker driver housing assembly.  
**NOTE:** Place the larger (keyed) tab of the voice coil assembly to pin 1 as identified on the speaker driver housing assembly.
3. Ensure that the voice coil is firmly seated into the cavity by pressing around the outer edges of the voice coil assembly.
4. Position the permanent magnet's larger side indentations in line with the two screw holes in the speaker driver housing assembly and the smaller side indentations with the terminal connections.  
**Using extreme care,** center the magnet over the voice coil and *gently* place it into the cavity.

5. Reposition the permanent magnet's indentations, if necessary.
6. Firmly press on the permanent magnet to ensure that it is fully seated into the cavity.
7. Reinstall the supporting strap across the rear of the permanent magnet and tighten securely.
8. Using the long needle nose pliers, reconnect the speaker wire connections to the new voice coil as follows: black to terminal 1, yellow to terminal 2. (Terminals are identified on the speaker driver housing assembly.) Ensure connections are fully seated.
9. As necessary, reposition the driver assembly's large round gasket, ensuring proper alignment with the screw holes in the rear of the upper enclosure section.
10. Gently reposition the speaker driver housing assembly into the rear enclosure housing. Assist the speaker wires back into the electronics cavity, ensuring that the section of protective tubing covering the speaker wires is positioned between the upper and lower cavities correctly.
11. Realign the speaker driver assembly's three mounting holes with the enclosure's rear mounting holes and reinsert the three screws using a flat blade starter screwdriver.
12. Using the flat blade screwdriver, tighten the screws.
13. Using the #2 Phillips screwdriver, reinstall the sound deflector to the speaker driver housing assembly using the three screws previously removed.
14. Using the #1 Phillips screwdriver, reinstall the nameplate onto the speaker cone tip using the screw previously removed.
15. Reconnect the P2 connector (2-conductor speaker connection) to the PCBA's J2.
16. Slowly reinstall the front cover assembly into the rear housing, ensuring that no wires are pinched or stressed.
17. Using the #2 Phillips screwdriver, reinstall the front cover to the housing using the six front panel screws previously removed.
18. Reinstall unit and check for proper operation.

# Warranty

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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.

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.

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## Return Policy

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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.