



GAI-TRONICS® CORPORATION
A HUBBELL COMPANY

Speaker Assembly Replacement Kit

MODEL 12522-003

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General Information

This kit is to be used in the following GAI-Tronics Emergency phones:

- 293-003 • 294AL-003 • 298-003 • 293AL-001 • 297-001
- 293AL-003 • 297-003 • 293-001 • 294AL-001 • 298-001

This kit contains the following:

Qty	Description
1	Weatherproof speaker, 3.5-inch, 45-ohm, with connector
1	Tie wrap

The following tools are required:

- ¼-inch hex nut driver or socket wrench
- Model 233 Tamper-Resistant Screwdriver
- #2 Phillips screwdriver

Installation (Models 297-00x and 298-00x)

Removing the Old Speaker Assembly



Warning: Observe precautions for handling electrostatic sensitive devices.



CAUTION **Disconnect the phone line.**

1. Use a Model 233 Tamper-resistant Screwdriver to remove the screws securing the front panel assembly to the back box. Save these screws for re-assembly.

2. If necessary, snip the tie wrap securing the following wires to each other: speaker, push button(s), LED indicator, and in some cases, microphones.
3. Record the location of each connection to the PCBA (to aid in the connection of the replacement PCBA) as you unplug all the connectors.
4. Remove the 4 screws holding the PCBA, and set the PCBA to the side.
Note: These models each have a shield that first must be removed.
5. Remove the four 6-32 Keps nuts attaching the speaker to the speaker-mounting plate. Refer to Figure 1.
6. Remove the speaker and discard.

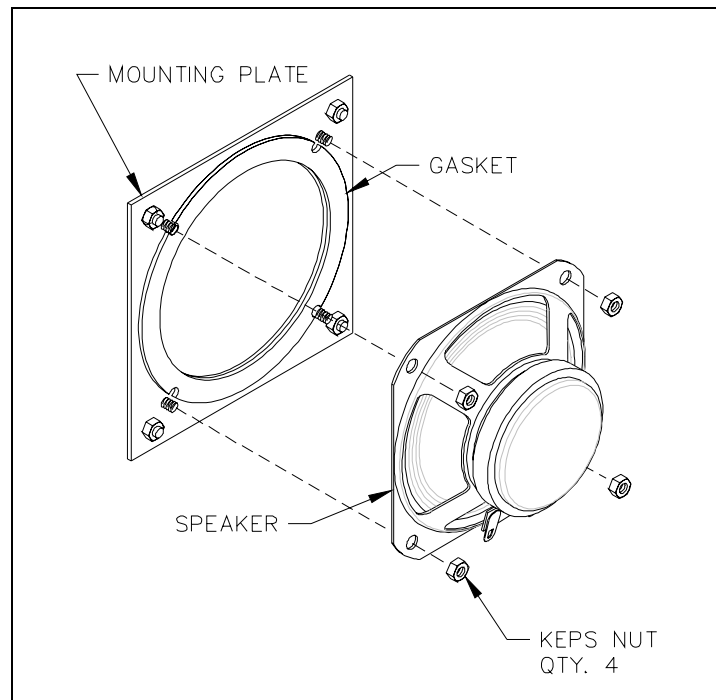


Figure 1. Models 297-xxx and 298-xxx

Installing the New Speaker Assembly

1. Attach the new speaker assembly with the original 6-32 Keps nuts, carefully applying equal pressure to all four corners of the speakers.
2. Reattach the PCBA and shield using the original screws.
3. Plug in all of the connectors to the PCBA in their original locations.
4. Use the supplied tie wrap to secure the speaker assembly wire, as necessary.
5. Reattach the front cover.

Installation (Models 293-00x, 293AL-00x, & 294AL-00x)

Removing the Old Speaker Assembly



Warning: Observe precautions for handling electrostatic sensitive devices.



CAUTION  **Disconnect the phone line.**

1. Use a Model 233 Tamper-resistant Screwdriver to remove the screws securing the front panel assembly to the back box. Save these screws for re-assembly.
2. If necessary, snip the tie wrap securing the following wires to each other: speaker, push button(s), LED indicator, and in some cases, microphones.
3. Record the location of each connection to the PCBA (to aid in the connection of the replacement PCBA) as you unplug all the connectors.
4. Remove the 4 screws holding the PCBA, and set the PCBA to the side.
5. Remove the four #6 screws attaching the speaker to the speaker-mounting plate. Refer to Figure 2.
6. Remove the speaker and discard.

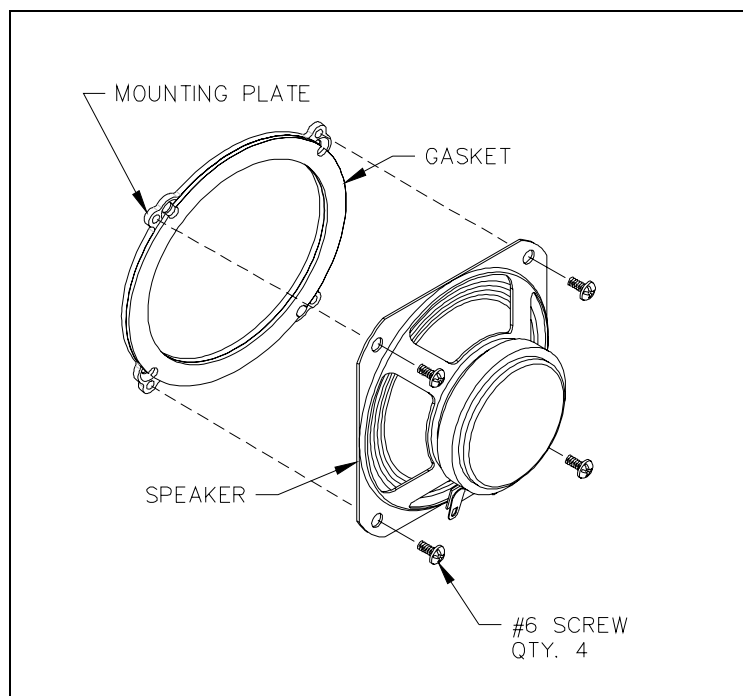


Figure 2. Models 293-xxx, 293AL-xxx, and 294AL-xxx

Installing the New Speaker Assembly

1. Attach the new speaker assembly with the original #6 screws, carefully applying equal pressure to all four corners of the speakers.
2. Reattach the PCBA and shield using the original screws.
3. Plug in all of the connectors to the PCBA in their original locations.
4. Use the supplied tie wrap to secure the speaker assembly wire, as necessary.
5. Reattach the front cover.

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.