



GAI-TRONICS®
A HUBBELL COMPANY

Printed Circuit Board Assembly Replacement Kit

MODEL 12565-001

Confidentiality Notice

This manual is provided solely as an operational, installation, and maintenance guide and contains sensitive business and technical information that is confidential and proprietary to GAI-Tronics. GAI-Tronics retains all intellectual property and other rights in or to the information contained herein, and such information may only be used in connection with the operation of your GAI-Tronics product or system. This manual may not be disclosed in any form, in whole or in part, directly or indirectly, to any third party.

General Information

This kit is used on the Model 701-10x Amplifiers. Installation of this kit will upgrade your Model 701-10x Amplifier to a Model 701-20x Amplifier. In the future, you may replace the handset receiver, the handset printed circuit board (Model 12550-001), and the speaker amplifier printed circuit board (Model 69701-007) separately. This kit is a one-time purchase only. This kit includes the following components:

Qty	Description
1	Handset Receiver
1	Handset Printed Circuit Board
1	Handset Speaker Amplifier Printed Circuit Board
1	Label

Installation

Removal of Old Receiver

1. Unscrew the microphone cap, and remove the microphone assembly.
2. Remove the screw securing the black wires. One black wire goes to the handset cord; the other wire connects the microphone and the receiver. This kit requires the removal of the black wire connecting the microphone and receiver. Using the original screw, reconnect the black handset wire to the microphone.
3. Unscrew the receiver cap.
4. Remove the receiver assembly from the handset.

5. Disconnect the red and green wires from the printed circuit board.
6. Locate the black wire that connects the microphone and the receiver. The wire is soldered to the receiver printed circuit board. Pull the black wire through the handset assembly, and discard the old receiver assembly.
7. Replace the microphone assembly, and tighten the microphone cap.
8. Remove the handset assembly label, Model 10105-006, and replace it with the new label, Model 10105-007, included.

Removing the Old Handset Amplifier Board

1. Loosen the four screws securing the front panel to the chassis.
2. Unplug the six handset wires (Model 701-102), or four handset and two page switch wires (Model 701-101) from the printed circuit board.
3. Unplug the violet (antenna) wire from the printed circuit board.
4. Remove the audio output transformer from the enclosure by removing the two screws securing it to the chassis. Save the screws. Unplug the transformer from the printed circuit board.
5. Remove the two screws that secure the top of the printed circuit board.
6. Locate the plastic standoffs securing the board to the chassis. Disconnect the board by pinching the tip of the standoff and feeding it back through the hole in the printed circuit board.
7. Remove and discard the old printed circuit board.

Installing the new handset amplifier board

1. Align the new board with the five plastic standoffs. Align and press the standoffs through the holes on the printed circuit board.
2. Attach the printed circuit board at P1 using the two screws. The grounding wire goes under the right screw.
3. Plug the transformer to the printed circuit board, and secure it to the chassis using the two screws.
4. Plug the violet (antenna) wire onto the printed circuit board as noted on the board.
5. Plug the six handset wires, or the four handset and two page switch wires into the printed circuit board, as noted on the board.
6. Install the front panel on the rear chassis, and tighten the four screws on the front panel brackets to secure the front panel.

Installing the New Receiver

1. Position the receiver with the varistor facing down.
2. Remove the two screws in the receiver.
3. Place the board on the receiver with the antenna pointing up, away from the varistor.
4. Screw the board to the receiver with the green wire under the left screw where indicated.
5. Attach the red wire to the standoff in the center of the board.
6. Bend the antenna so that it is flat against the side of the receiver. Then bend the small end around the corner so it is tight against the front of the receiver.
7. Place the receiver assembly in the handset.
8. Tighten the receiver cap.

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.