



GAI-TRONICS CORPORATION

# Printed Circuit Board Assembly Replacement Kit

## MODEL 12565-001

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## 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:

<u>Qty</u>	<u>Description</u>
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 4 screws securing the front panel to the chassis.
2. Unplug the 6 handset wires (Model 701-102) or 4 handset and 2 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 2 screws securing it to the chassis. Save the screws. Unplug the transformer from the printed circuit board.
5. Remove the 2 screws which 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 5 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 2 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 2 screws.
4. Plug the violet (antenna) wire onto the printed circuit board as noted on the board.
5. Plug the 6 handset wires, or the 4 handset and 2 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 4 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.

