S.M.A.R.T. Emergency Telephone PCBA Replacement Kit

MODEL 12562-103

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General Information

This kit contains a printed circuit board assembly (PCBA) to be used in the following GAI-Tronics S.M.A.R.T. Emergency phones:

293-003  293AL-003  294AL-003  297-003  298-003

Electrostatic Discharge (ESD) Protection:

Your telephone may have an earth ground terminal provision. If so, ensure that it is connected to ground in accordance with all local safety regulations and the National Electrical Code (NEC). Grounding has to be ensured for safe and stable communications. Do not use long and coiled ground wires. Trim ground wires to the required length. Use a star configuration whenever possible.

Installation

Models 293-003, 293AL-003, and 294AL-003

Removing the Old PCBA

⚠️ Warning: Observe precautions for handling electrostatic sensitive devices.

1. Use the Model 233-001 Tamper-Resistant Screwdriver to remove the four front panel screws, and remove the panel from the enclosure after disconnecting the telephone line.

2. Disconnect the microphone, speaker, LED indicator, keypad (Model 294AL-003 only), and switch cable(s) from the PCBA. Record the location of each connection for later reconnection.
3. Disconnect the red and green wires from the telephone line connection on the PCBA. Save the modular cord.

4. Unscrew the four corner screws from the PCBA. Save the screws.

**Installing the New PCBA**

1. Align the holes in the four corners of the new PCBA with the standoffs in the telephone, maintaining proper orientation. See Figure 1.

![Figure 1. PCBA Connections for Model 293-003, 293AL-003, and 294AL-003](image)

2. Use the screws (from step 4 in the previous section) to secure the PCBA.

3. Reconnect the red (ring) and green (tip) telephone wires to the PCBA.

4. Reconnect the microphone, speaker, LED indicator, keypad (Model 294AL-003 only) and switch cable(s) to the board.

5. Use the Model 233-001 Tamper-Resistant Screwdriver to install the four front panel screws.
Models 297-003 and 298-003

Removing the Old PCBA
1. Use the Model 233-001 Tamper-Resistant Screwdriver to remove the six front panel screws and remove the panel from its back box after disconnecting the telephone line.

2. Disconnect the microphone, speaker, switches, LED indicator, and keypad cables (Model 298-003 only) from the PCBA. Record the location of each connection for later reconnection.

3. Disconnect the red and green wires from the telephone line connection on the PCBA. Save the modular cord.

4. Unscrew the four screws securing the PCBA. Save the screws.

Installing the New PCBA
1. Align the holes in the four corners of the new PCBA with the standoffs in the telephone, maintaining proper orientation. See Figure 2.

Figure 2. Model 297-003 and 298-003 PCBA Detail
2. Use the screws (from step 4 in the previous section) to secure the PCBA.

3. Reconnect the red (ring) and green (tip) telephone wires to the PCBA.

4. Reconnect the microphone, speaker, switches, LED indicator, and keypad cable (Model 298-003 only) to the board.

5. Use the Model 233-001 Tamper-Resistant Screwdriver to install six front panel screws.
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.

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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.