

G A I - T R O N I C S C O R P O R A T I O N

PARTS REPLACEMENT KIT

**Model 12563-001
Power Supply/Terminal Board Kit**

This kit is for use on the Model TS958 Tone/Speech Generator. This kit is used on models of the TS958 built with the terminal strip and power supply mounted on the same board. Current models use two separate boards. Installation of this kit will upgrade the performance of this TS958 Tone/Speech Generator. To fully explain the new features, and to instruct the programmer, refer to Publication 42004-070, shipped with this kit. The TS958 manual that you received with your original product will no longer be valid and should be discarded. **Refer to the new manual for wiring and programming details.**

This kit contains the following parts:

- (1) Power Supply Shield
- (1) Grounding Plate (Top)
- (2) Grounding Wires
- (1) Cable Assembly
- (1) Power Supply Assembly
- (1) Terminal Board
- (1) Installation Manual for TS958 - Pub. 42004-070

Packet of Hardware containing:

- (8) 6-32 x 1/4 Screws (machine thread)
- (8) 6-32 x 1/4 Screws (thread cutting)
- (3) Labels
- (2) 7/8" Screws
- (6) KEP Nuts

Make sure power to the unit is disconnected BEFORE beginning installation of this kit. Failure to do so may result in serious injury.

Removal of old power supply and terminal board:

1. Loosen the four screws securing the front panel of the unit to the back box. Open the unit to access the power supply/termination board.
2. Disconnect the ribbon connector at J1.
3. Pull firmly on the front panel to disengage hinges and set aside.
4. Disconnect all system wiring from the termination board. Ensure that the wire ends do not touch one another because this could cause other system problems.



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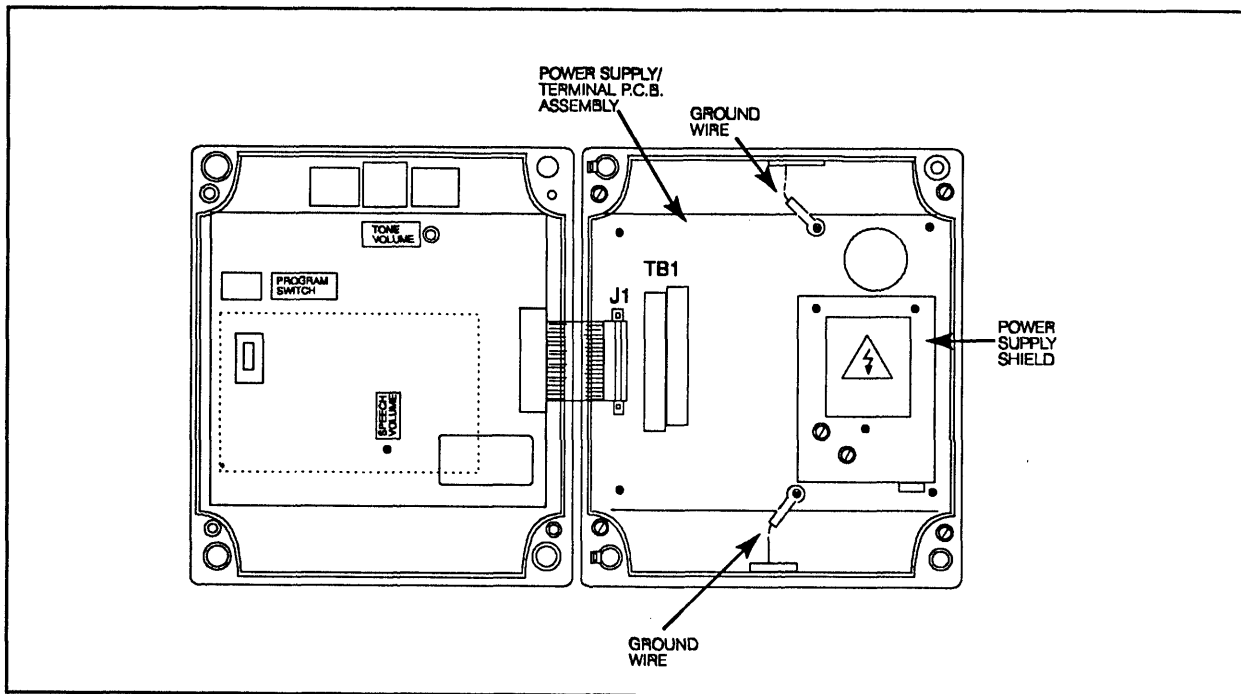


Figure 1. Removal of old power supply and terminal board

5. Disconnect the green/yellow ground wire(s) from the PC Board. Some older models of the TS958 have a different top grounding plate, like the one shown in Figure 1. Other units have the type of top ground plate shown in Figure 2.
6. Slide the ground plate at the top of the unit up and out of the tracks.
7. Remove the six screws securing the power supply/terminal assembly to the back box.
8. Discard old power supply/termination board.

Installation of new power supply and terminal board:

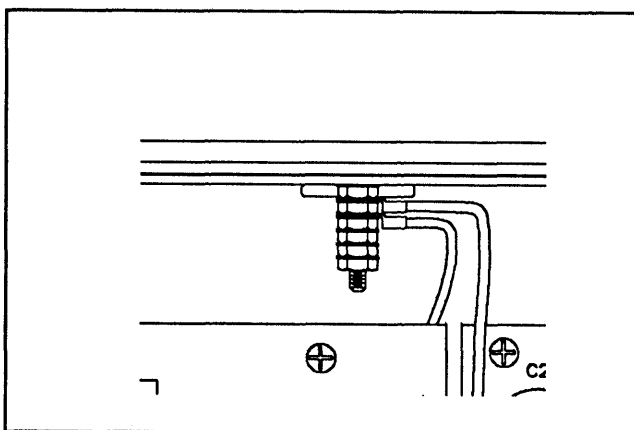


Figure 2. Top plate detail

1. Attach ground wires to top ground plate as shown in Figure 2.
2. Slide the new ground plate into the tracks at the top of the unit.
3. Connect the larger grounding wire to the bottom plate. Ensure that the wire is not pinched under the board. Refer to Figure 3 for details.
4. Use four of the appropriate 6-32 screws to secure the new power supply to the rear of the enclosure. See Figure 3.

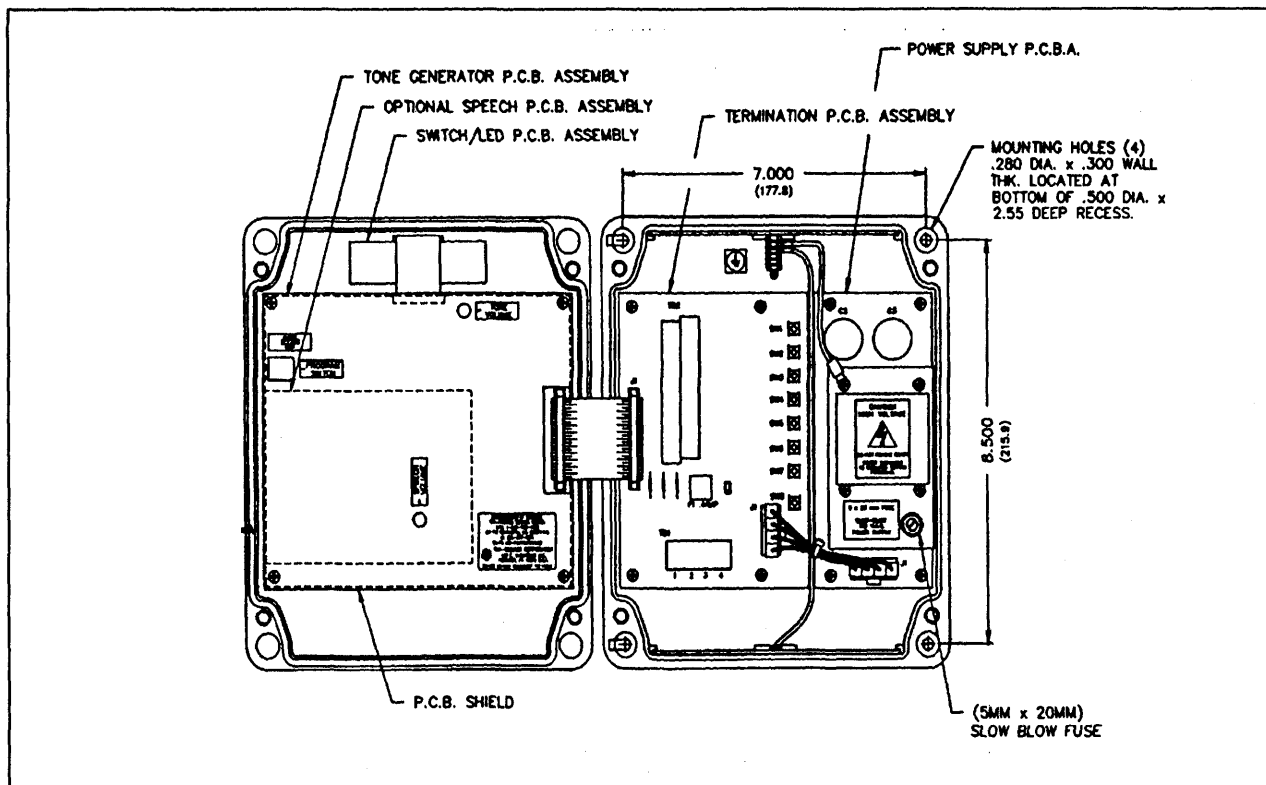


Figure 3. TS958 with new board and power supply

5. Use four screws to secure new termination board to the rear enclosure. See Figure 3.
6. Use the two 7/8" SEMS screws to secure the transformer cover onto the power supply board. The upper left screw will also secure the ground wire connected to the top grounding plate, as shown in Figure 3.
7. Attach the "Caution: High Voltage" label to the front of the shield. Attach "Fuse" label to the shield.
8. Attach the ground symbol label to the enclosure under the stud of the top ground plate.
9. Attach the new moxex-moxex cable assembly from "J1" of the termination board to "J1" of the power supply.
10. Reattach the front panel to the rear enclosure.
11. Reattach the ribbon cable connected to "J2" of the new termination board.
12. Refer to Publication 42004-070, shipped with this kit, for wiring and programming instructions.

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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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.