



GAI-TRONICS® CORPORATION
A HUBBELL COMPANY

Tone Generator/Speech Board Front Panel Assembly Upgrade Kit

Model 12959-001

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General Information

The Model 12959-001 Front Panel Assembly Kit is used to upgrade a TS958 Tone/Speech Generator to a Model TS959 Tone/Speech Generator *and* add speech messages. With the speech PCBA installed, the unit is capable of generating speech messages in addition to the tones.

The kit includes an improved No. 69107-003 speech printed circuit board assembly (PCBA) that is factory-programmed to include the customer-specified speech messages. Because the customer-specified speech messages are added to the kit's speech PCBA at the factory, the speech PCBA does not require any additional installation or wiring.

NOTE: The speech messages must be specified by the customer at the time of order.

Installation



WARNING

- **Under no circumstance should the older generation speech PCBA 69107-001 be installed in this kit or equipment damage will occur.**
- **Disconnect ac power during this installation procedure. The Model TS959 Tone/Speech Generator can present a 110-220 V ac shock hazard. Please use care when handling this device.**



Warning: Observe precautions for handling electrostatic sensitive devices.

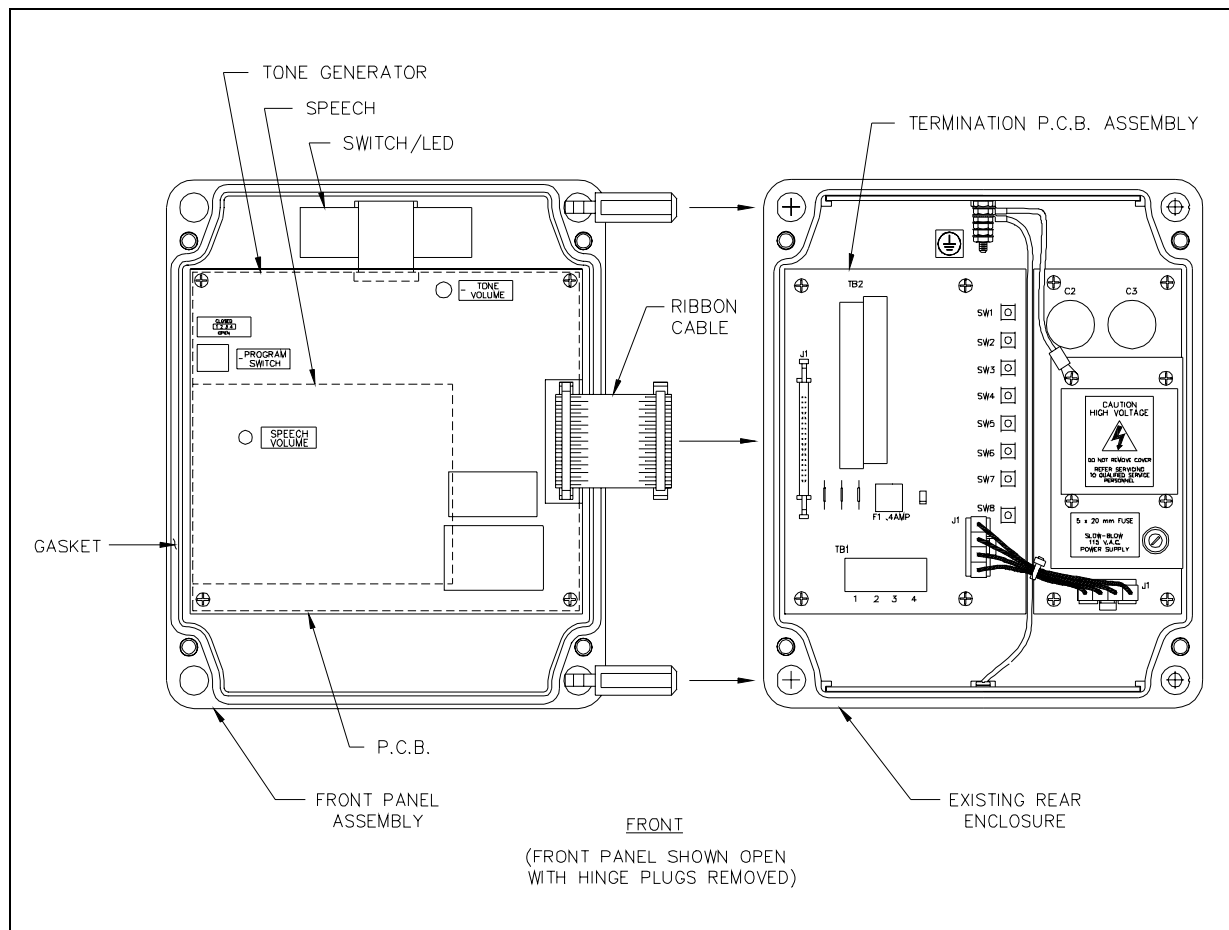


Figure 1. Front Cover Assembly

Instructions

1. Remove the ac power from the Model TS958.
2. Loosen the four captive screws from the front cover of the TS958.
3. Swing the cover open and remove the ribbon cable from J1 on the 69105-004 Termination PCBA. To remove the ribbon cable from J1, push the latch eject levers on each side of the connector. Refer to Figure 1.
4. Remove the TS958 front cover by pulling the hinges out of the hole in the rear enclosure.
5. Attach the new front panel assembly, 12959-001, by pushing the new hinge pins into the appropriate rear enclosure holes and connecting the ribbon cable to the termination PCBA J1 in the rear section of the TS958 enclosure.

6. Program as required for your specific application.

NOTE: This equipment is programmed with factory default settings. For programming information, refer to the TS959 Instruction Manual, GAI-Tronics' publication 42004-278 (provided in this kit).

7. Close the front cover, and secure the front panel using the captive screws provided.

NOTE: The TS958 has now been upgraded to a Model TS959 Tone/Speech Generator with speech message capabilities.

Reference Documentation

The tone generator includes several user-programmable options including tone selection and signal duration. Please refer to Publication 42004-278 for programming instructions and the custom manual provided with the speech board.

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.