

DIV 2 Relay PCBA Field Install Kit

Model 12551-007

Confidentiality Notice

This manual is provided solely as an installation, operation, 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

The Model 12551-007 Division 2 Relay PCBA kit is for use in Model 351-XXXXXX Division 2 VoIP Telephones and Division 2 VoIP Page Phones. The relay PCBA provides two remote outputs for customer use (see <u>Table 1</u>). The relay contact ratings are 5 A at 30 V dc or 120 V ac.

PinLabelDescription1C2Common Output Two2NO2Normally Open Output Two3C1Common Output One

Normally Open Output One

Table 1. Output Contacts—P2

The function of each output is configurable. Outputs can be configured for one of the following modes:

- on off pulse mute ring
- call connect hook in use ring cadence

NO₁

• ring out • page • registered • emergency

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The duration of the activation or on/off times can also be set in some modes. Refer to the Logic Settings section of Pub. 42004-481, VoIP Telephone Basic Programming Guide for more details.

Refer to Pub. 42004-500 (Division 2 VoIP Page Phones) or Pub. 42004-501 (Division 2 VoIP Telephones) for complete installation, operation, testing, and maintenance information of these phones.

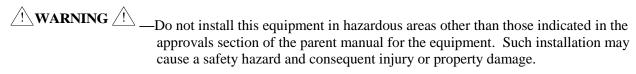
Important Safety Instructions

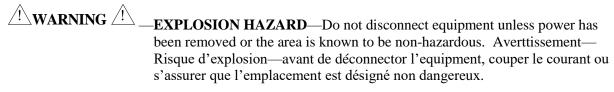
- Read, follow, and retain instructions—All safety and operating instructions should be read and followed before operating the unit. Retain instructions for future reference.
- **Heed warnings**—Adhere to all warnings on the unit and in the operating instructions.
- **Attachments**—Attachments not recommended by the product manufacturer should not be used, as they may cause hazards.

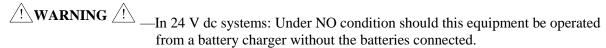


Install equipment without modification and according to all applicable local, national, and international electrical codes. North America—Consult the National Electrical Code (NFPA 70), Canadian Standards Association (CSA 22.1), and local codes for specific requirements regarding your installation. Class 2 circuit wiring must be performed in accordance with NEC 725.55.

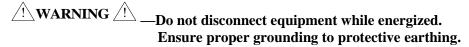
This equipment is suitable for use in Class I Division 2 Groups A, B, C and D, Class II Division 2 Groups F and G, Class III, OR non-hazardous locations only. Combinations of equipment in your system are subject to investigation by the local authority having jurisdiction at the time of installation.







In 24 V dc systems, most chargers have an unloaded output of 35 to 45 volts that can quickly damage the equipment designed for nominal 24 volts. The maximum battery voltage should never exceed the maximum specified input voltage.



These enclosures must be installed by trained, qualified, and competent personnel. Installation must comply with state and national regulations, as well as safety practices for this type of equipment.

Installation

The Model 12551-007 Kit includes the following components:

Oty Description 1 VoIP Telephone Relay PCBA 1 relay PCBA cable assembly 4 #4-40 screws 2 cable ties

Install the Model 12551-007 Field Installation Division 2 Relay PCBA Kit as follows:

- 1. Existing installations: Disconnect the power source from the unit.
- 2. Remove the four screws from the front panel and set aside.
- 3. Turn the front panel to the right so that the interior surfaces face you. Keep the wiring connected (see Figure 1).
- 4. Hang the front panel from the front door by hooking a small piece of wire through the mounting holes of the panel and back box.
- 5. Align the relay PCBA with the four PEM standoffs at the top of the mounting plate inside the rear enclosure. Make note of the PCBA orientation (see <u>Figure 1</u>).
- 6. Secure the relay PCBA using the four #4-40 screws provided.
- 7. Connect the cable assembly from P1 on the relay PCBA on the rear enclosure to P10 on the main PCBA on the front panel. Use the two cable ties provided to route wires (see <u>Figure 1</u>).
- 8. Replace the front panel on the rear enclosure.
- 9. Secure the front panel using the four screws and washers retained in Step 1. Torque the screws to 10–12 in lb (1.13–1.36 Nm).

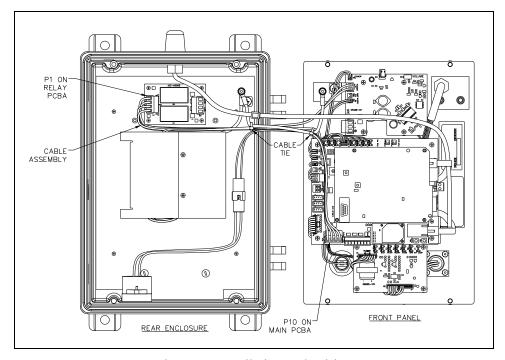


Figure 1. Installation and Wiring

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.

<u>Services.</u> 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.

<u>Warranty Periods.</u> 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.

<u>Limitations / Exclusions.</u> 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.