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GAI-TRONICS® CORPORATION

A HUBBELL COMPANY

Ring Detect Relay Kits

Models 12565-009 & 12565-010

Confidentiality Notice

General Information

The Model 12565-009 Ring Detect Relay Kit is for use in the Models 354-001 NEMA 4X Industrial Telephone and 276-001 Flush-Mount Handset Telephone with Keypad.

The Model 12565-010 Ring Detect Relay Kit is for use in Models 246-001 Indoor Industrial Telephone and 256-001 Outdoor Industrial Telephone.

These Ring Relay Kits allow the telephone to activate a peripheral device, such as a beacon or sounder, when ring voltage is present. The kit includes a PCBA, mounting hardware and USOC RJ11C Module connector cord.

When installed the Ring Relay PCBA is connected to the Industrial Telephone PCBA via the USOC RJ11C modular connector cord. This allows the telephone input wiring to be connected directly to the Ring Relay PCBA. The Ring Relay PCBA is installed on the back of the front panel for all models. Please see the mounting details for individual models.

The Model 12565-009 Kit includes the following:

Qty	Description
1	Ringer Relay PCBA
2	Standoffs, 6-32 × 1.00 inch, F/F
2	Standoffs, 6-32 × 1.25 inches, F/F
2	Phillips head machine screws, 6-32 × 5/16-inch
1	Modular connector cord, USOC RJ11C

The Model 12565-010 Kit includes the following:

Qty	Description
1	Ringer Relay PCBA
2	Standoffs, 4-40 × 1.18 inches, M/F
2	Standoffs, 4-40 × 1.25 inches, M/F
6	Phillips head machine screws, 4-40 × 5/16-inch
1	PCBA mounting plate
1	Modular connector cord, USOC RJ11C

Model 354-001 Installation

Using the parts provided in the Model 12565-009 Ring Detect Relay Kit:

1. Remove the four 10-32 security screws from the front cover of the telephone. Pull the cover away from the back box/enclosure. Retain the screws.

2. Disconnect the incoming subscriber line; red (ring) and green (tip) from TB1 on the Industrial Telephone PCBA.

3. Install the two 6-32 × 1.00 inch F/F standoffs (provided) onto the two weld studs on the back of the panel. See Figure 1.

4. Align the Ring Relay PCBA with the two standoffs. Make note of the PCBA orientation in Figure 1.

5. Secure using two #6-32 screws provided.

6. Connect the incoming subscriber telephone line to TB1 on the Ring Relay PCBA as shown in Figure 2.

7. Connect the external sounder or beacon to TB2 on the Ring Relay PCBA for activation with an incoming telephone call. See Figure 2 and Figure 3.

8. Before reattaching the panel assembly, connect the USOC RJ11C modular connector cord (provided) from the Industrial Telephone PCBA shown in Figure 4 to the Ring Relay PCBA shown in Figure 2.

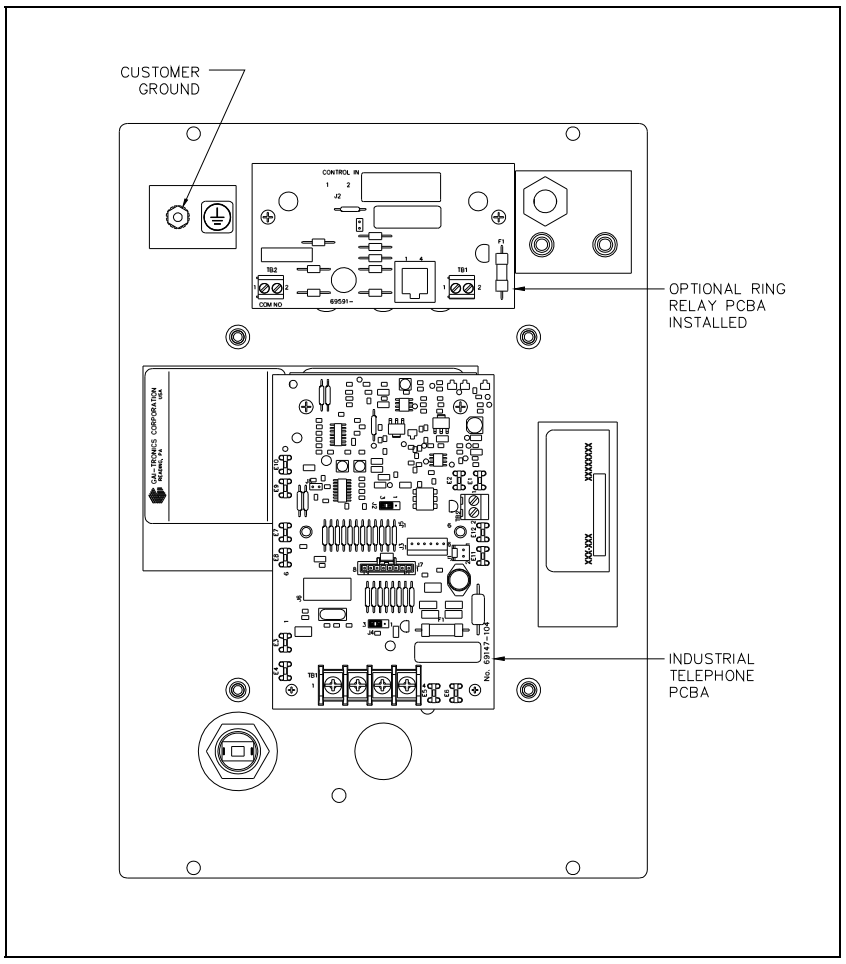

Figure 1. Interior of the Front Panel

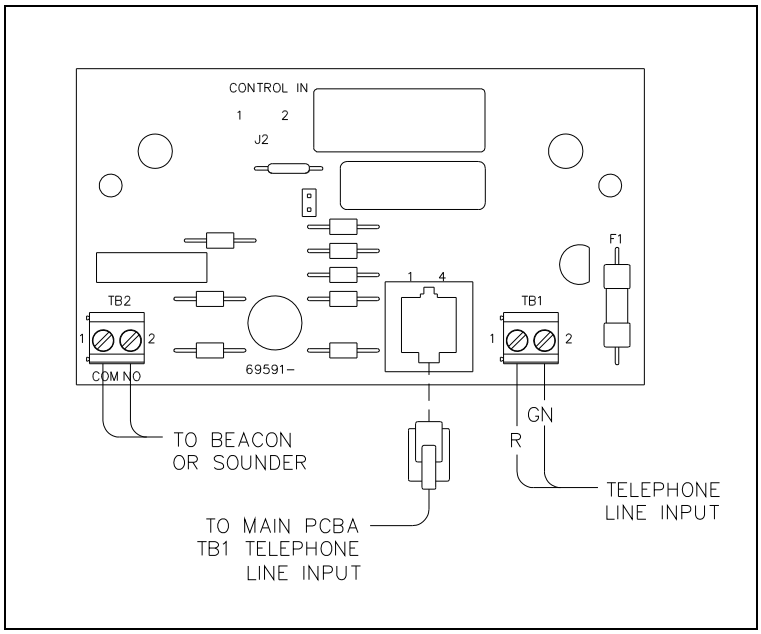

Figure 2. Ring Relay PCBA Wiring

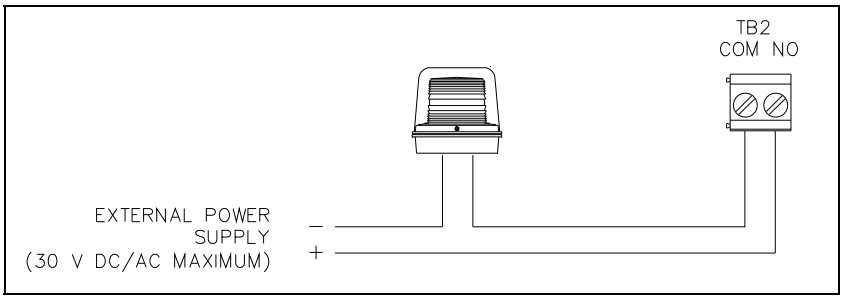

Figure 3. Device Interconnection

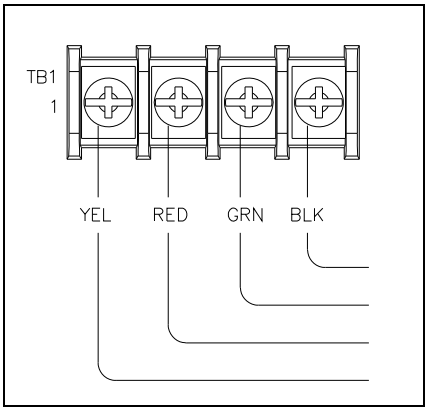

Figure 4. TB1 Terminal Block on Industrial Telephone PCBA

Model 276-001 Installation

Using the parts provided in the Model 12565-009 Ring Detect Relay Kit:

1. Remove six 10-32 security screws from front cover of telephone. Pull cover away from the back box/enclosure. Retain the screws.

2. Disconnect the incoming subscriber telephone line; red (ring) and green (tip) from TB1 on the Industrial Phone PCBA.

3. Install the two 6-32 × 1.25-inches F/F standoffs (provided) onto the two weld studs on the back of the panel. See Figure 5.

4. Align the Ring Relay PCBA with the two standoffs. (Note the PCBA orientation in Figure 1).

5. Secure using two #6-32 screws provided.

6. Connect the incoming subscriber telephone line to TB1 on the Ring Relay PCBA as shown on Figure 2.

7. Connect the external sounder or beacon to TB2 on the Ring Relay PCBA for activation with an incoming telephone call. See Figure 2 and Figure 3.

8. Before reattaching the panel assembly, connect the USOC RJ11C modular connector cord (provided) from the Industrial Phone PCBA shown in Figure 4 to the Ring Relay PCBA shown in Figure 2.

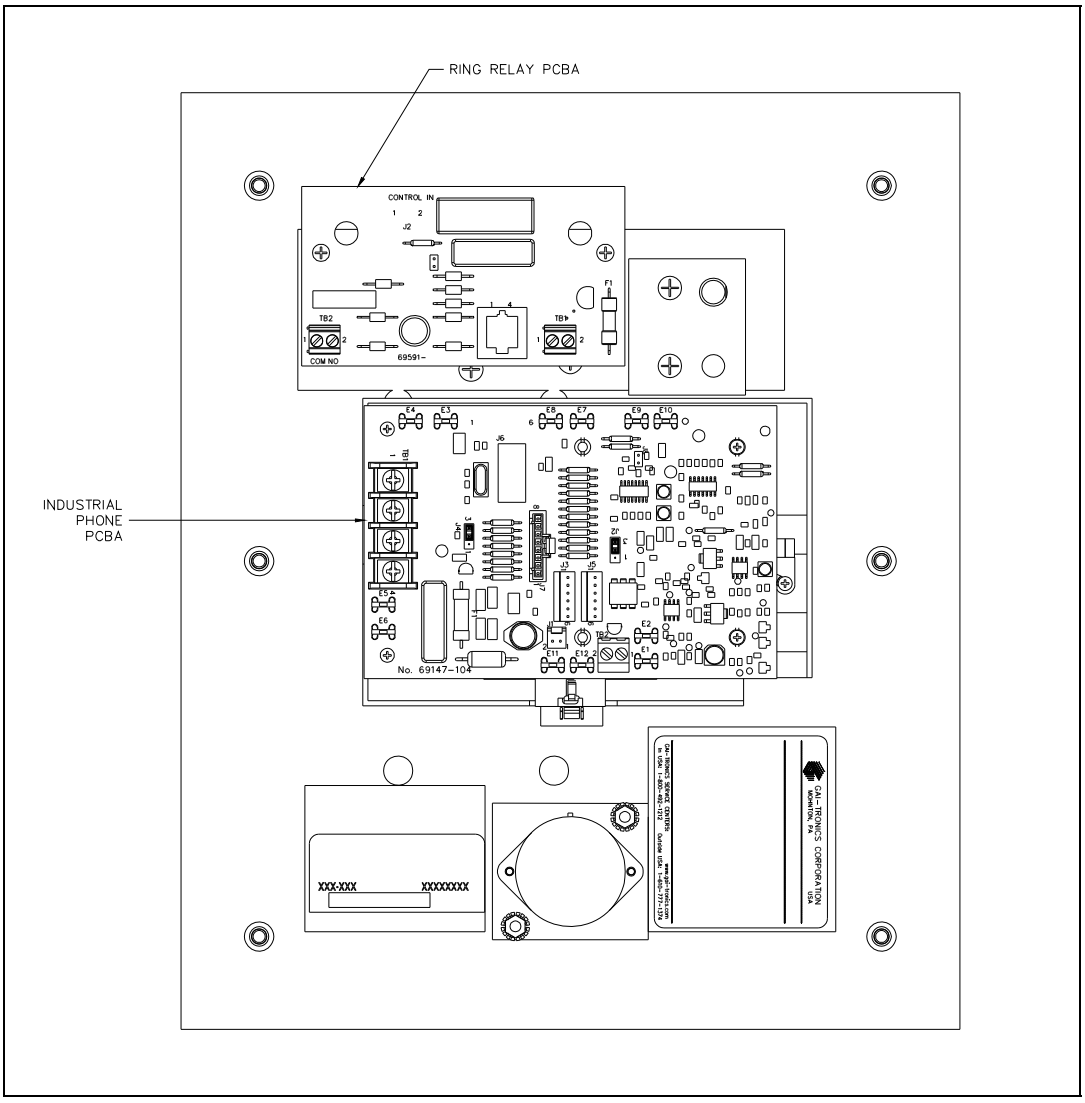
RING RELAY PCBA
INDUSTRIAL PHONE PCBA
CONTROL IN
J2
TB2
COM NO
69591-
TB1
F1
No. 69147-104
XXX-XXX
XXXXXXXX
GAI-TRONICS CORPORATION
USA

Figure 5.

Model 246-001 and 256-001 Installation

Using the parts provided in the Model 12565-010 Ring Detect Relay Kit:

1. Remove four 10-32 screws from front cover of telephone. Pull cover away from the back box/enclosure. Retain the screws.

2. Disconnect the incoming subscriber telephone line; red (ring) and green (tip) from TB1 on the Industrial Phone PCBA.

3. Remove two #4-40 screws installed above ringer. See Figure 6. Replace with two #4-40 × 1.18-inches M/F standoffs (provided).

4. Install two #4-40 × 1.25-inches M/F standoffs (provided) into front cover inserts located below ringer.

5. Align Ringer Relay PCBA mounting plate (provided) to four standoffs. Note orientation of plate.

6. Secure with four #4-40 screws (provided).

7. Align the Ring Relay PCBA with the two standoffs (part of the Ringer Relay Mounting Plate). (Note the PCBA orientation in Figure 7).

8. Secure using two #4-40 screws provided.

9. Connect the incoming subscriber telephone line to TB1 on the Ring Relay PCBA as shown on Figure 2.

10. Connect the external sounder or beacon to TB2 on the Ring Relay PCBA for activation with and incoming telephone call. See Figure 2 and Figure 3.

11. Before reattaching the panel assembly, connect the USOC RJ11C modular connector cord (provided) from the Industrial Phone PCBA shown in Figure 4 to the Ring Relay PCBA shown in Figure 2.

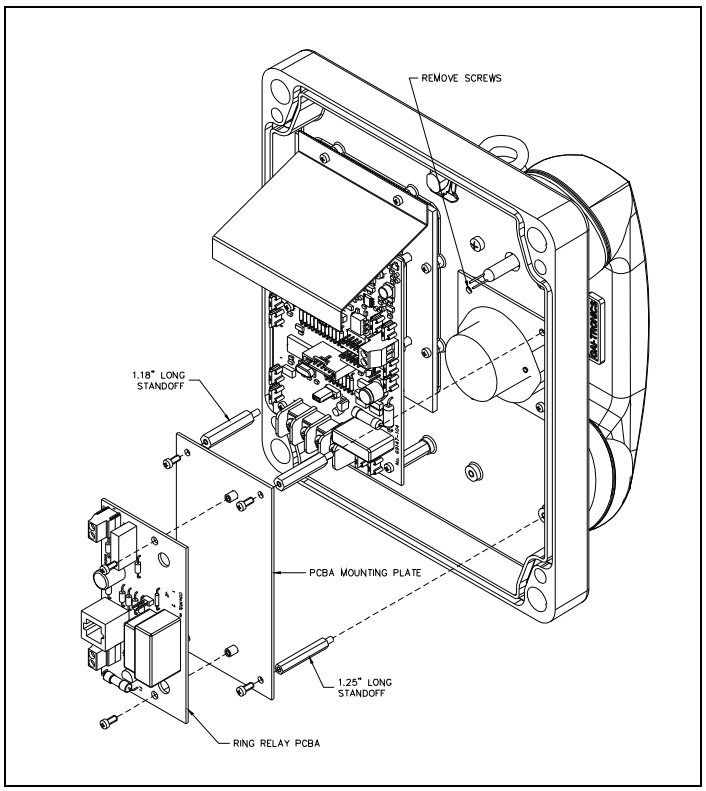

Figure 6.

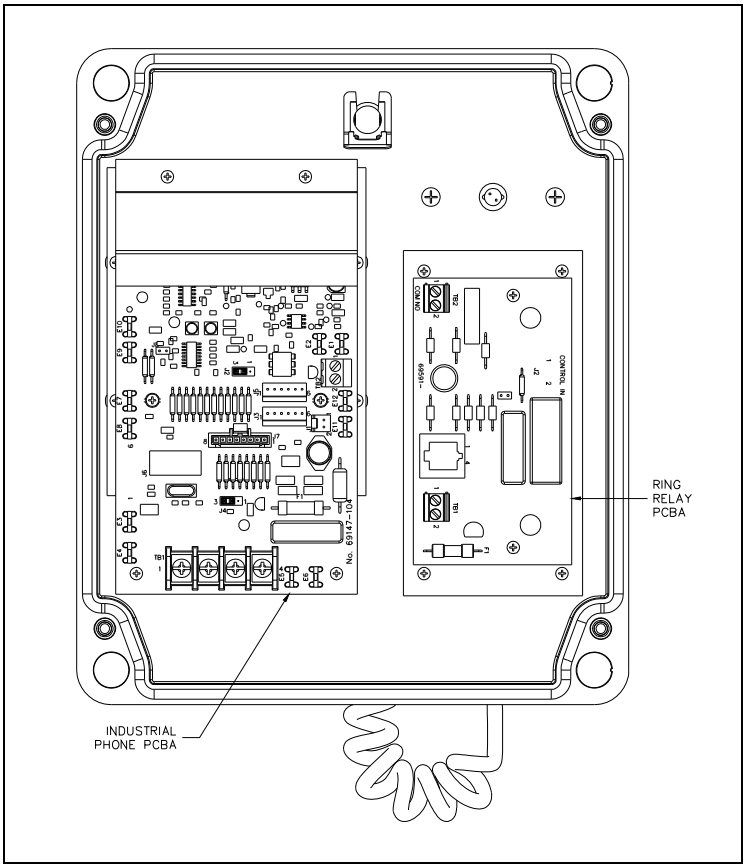

Figure 7.

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.