



GAI-TRONICS®

A HUBBELL COMPANY

# Zone 2/22 ICS 70V/100V Upgrade Kit

## Model 12832-002

## Confidentiality Notice

This manual is provided solely as an operational, installation, 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 12832-002 Zone 2/22 ICS 70V/100V Upgrade Kit is designed to be used in Zone 2/22 ICS Stations. This kit provides all components required to upgrade the station to connect 70-volt or 100-volt speakers and daisy-chain multiple speakers to a single ICS Page/Party® station.

This kit provides the following components:

Qty	Description
1	Toroid transformer assembly with terminal block and bracket
4	Nut, 4-40 keps
4	Standoff, ¼-inch hex 4-40 × 1 3/16-inches
1	Tie wrap
1	Label, Upgrade Kit

## Installation

 **WARNING**  **EXPLOSION HAZARD** – Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.

### Opening the Station

Remove the four screws from the front panel and turn it to the right so that the interior surface faces you. Allow the wiring and ribbon cables to remain connected. The front panel can be hung from the front door by hooking a small piece of wire in the mounting holes of the panel. The front panel interior surface and the back box interior now face you. This configuration presents the easiest access for troubleshooting and setting adjustments. See Figure 1.

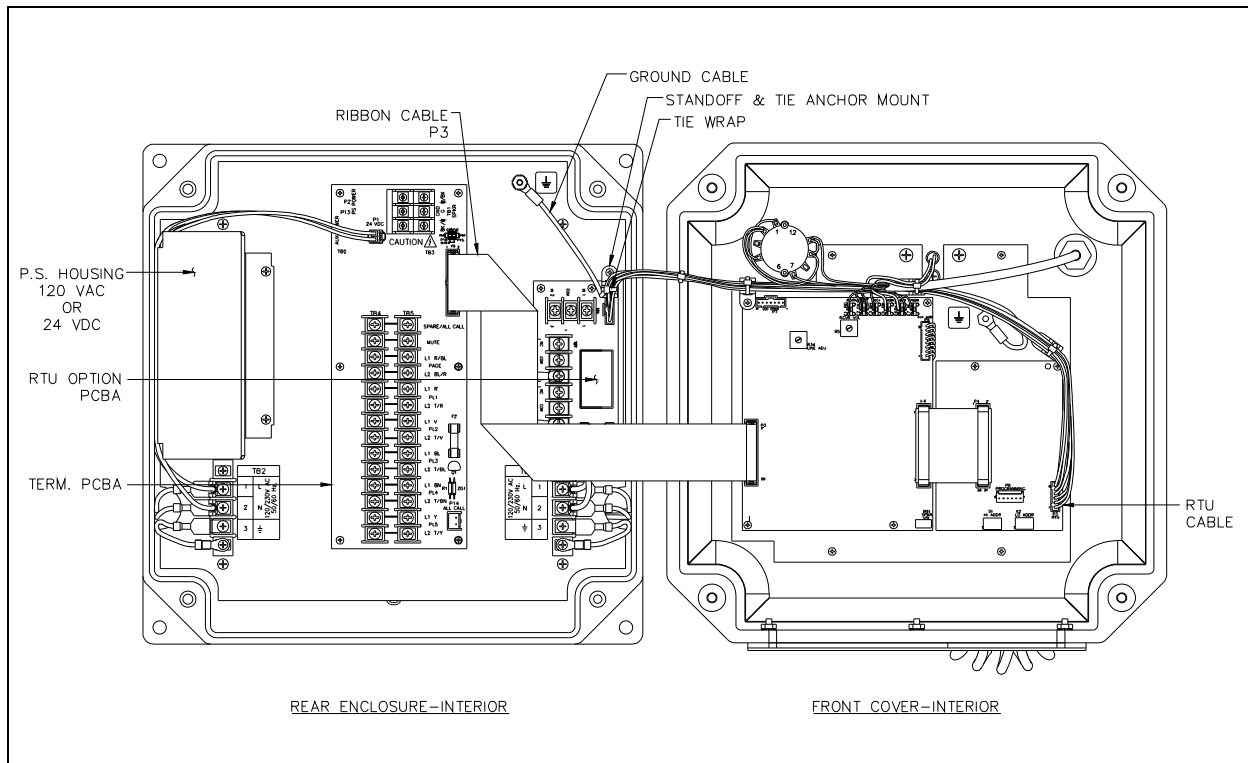


Figure 1. ICS Zone 2/22 Station – Interior View

## Installing the 70V/100V Option

1. Cut the tie wrap that is securing the ground wire and RTU cable assembly (when applicable).
2. Remove standoff and tie anchor mount by removing the screw.
3. On the Termination PCBA, unplug the ribbon cable at P3 for easier access to the rear mounting plate.
4. When applicable, remove the four 4-40 screws that secure the RTU PCBA, the RTU PCBA and the four 4-40 × 7/16-inch female/female standoffs from the rear mounting panel. Set these aside.
5. Attach two of the 4-40 × 1-3/16-inch male/female standoffs to the rear mounting panel. Attach the bracket and toroid assembly to the rear mounting panel using the four 4-40 keps nuts if there is no RTU option. See Figure 2.
6. If there is an RTU option, attach the bracket with two more 4-40 × 1-3/16-inch male/female standoffs. Use the four 4-40 × 7/16-inch female/female standoffs to secure the bracket. Re-attach the RTU PCBA to the standoffs and bracket using the 4-40 screws. See Figure 2.

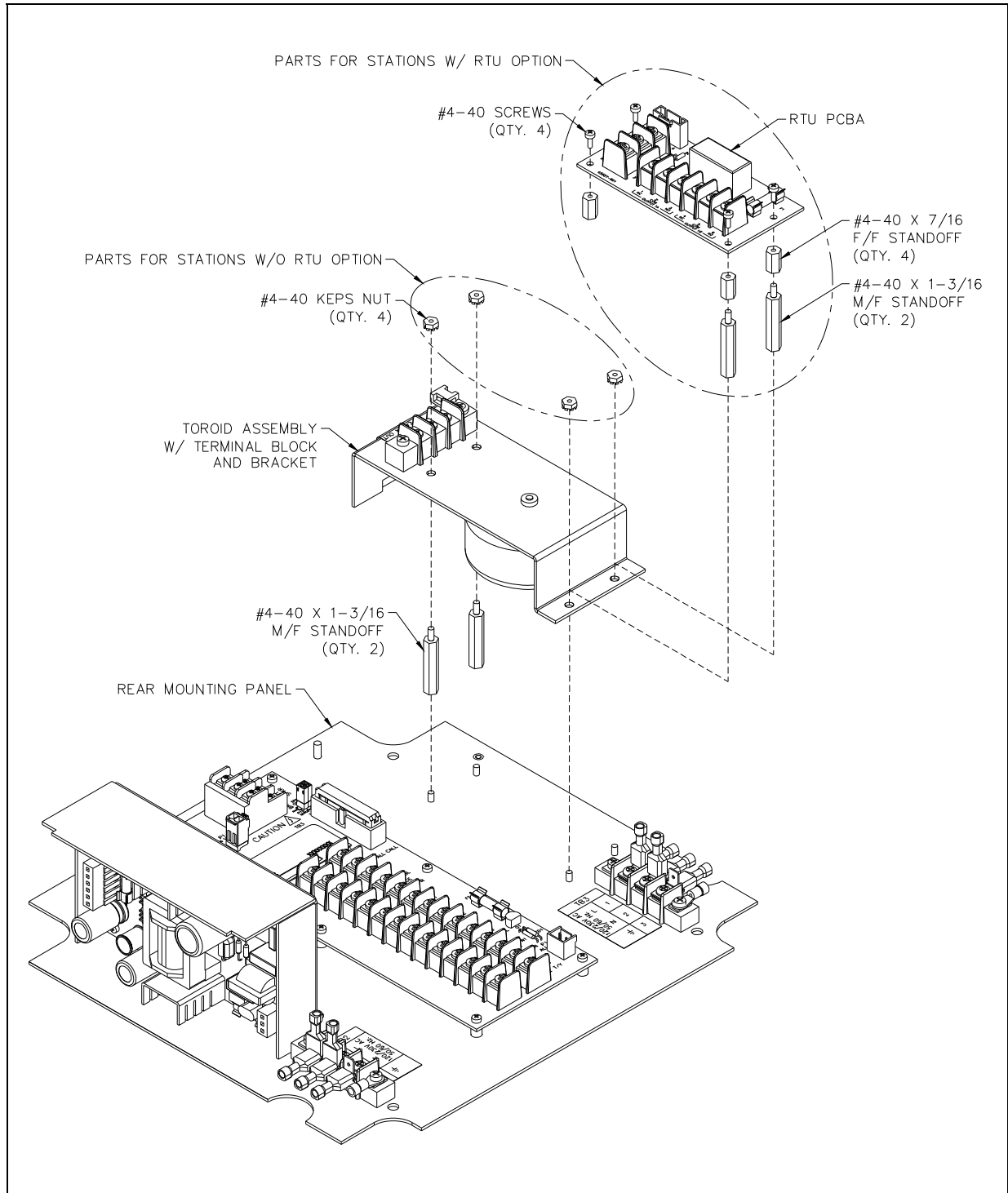


Figure 2. 70V/ 100V Assembly

7. Plug the ribbon cable back into P3 of the Termination PCBA.
8. Tie down the ground cable and RTU cable (when applicable) to the tie anchor mount on the terminal block.
9. Place the Upgrade Kit label on the power supply housing as shown in Figure 3.

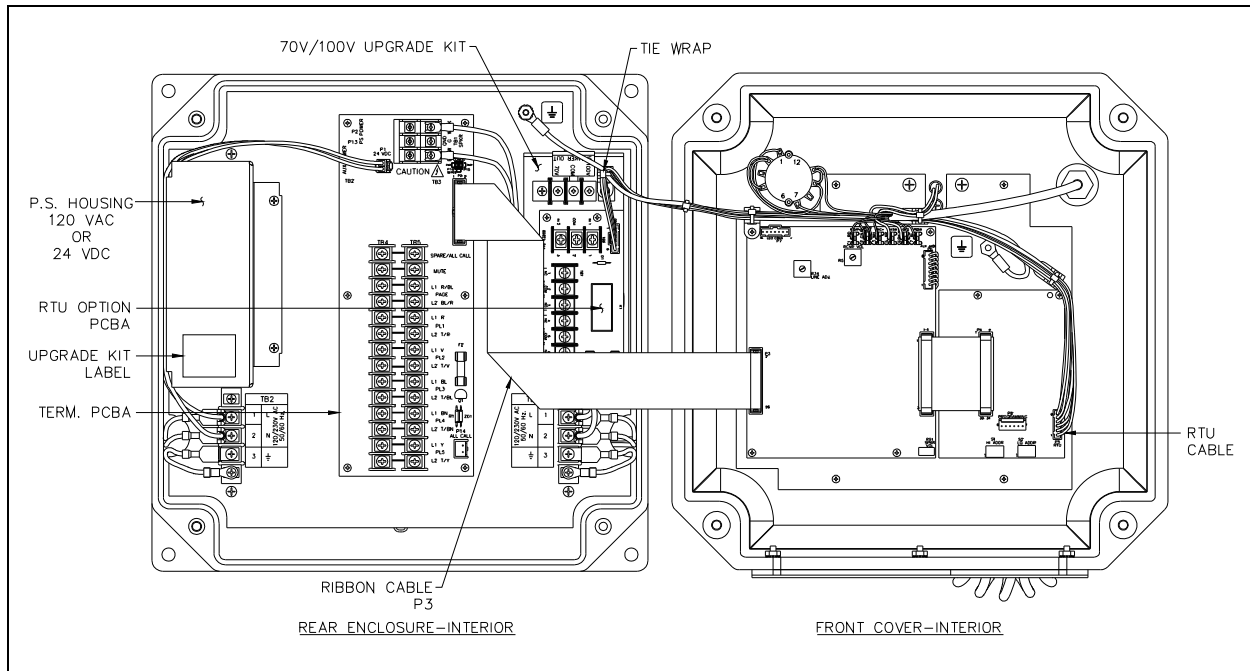


Figure 3. Upgraded ICS Zone 2/22 Station – Interior View

### Field Wiring

For 100V speakers, connect the wires to the terminal block TB8-100V and COM. For the 70V speakers, connect the wires to the terminal block TB8-70V and COM.

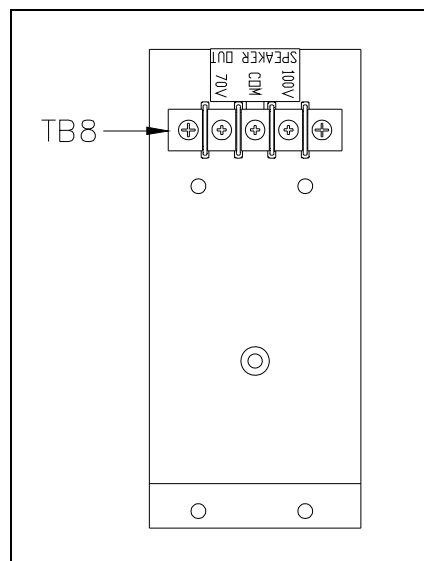


Figure 4. Standard Station 70V/100V Speaker Output Assembly

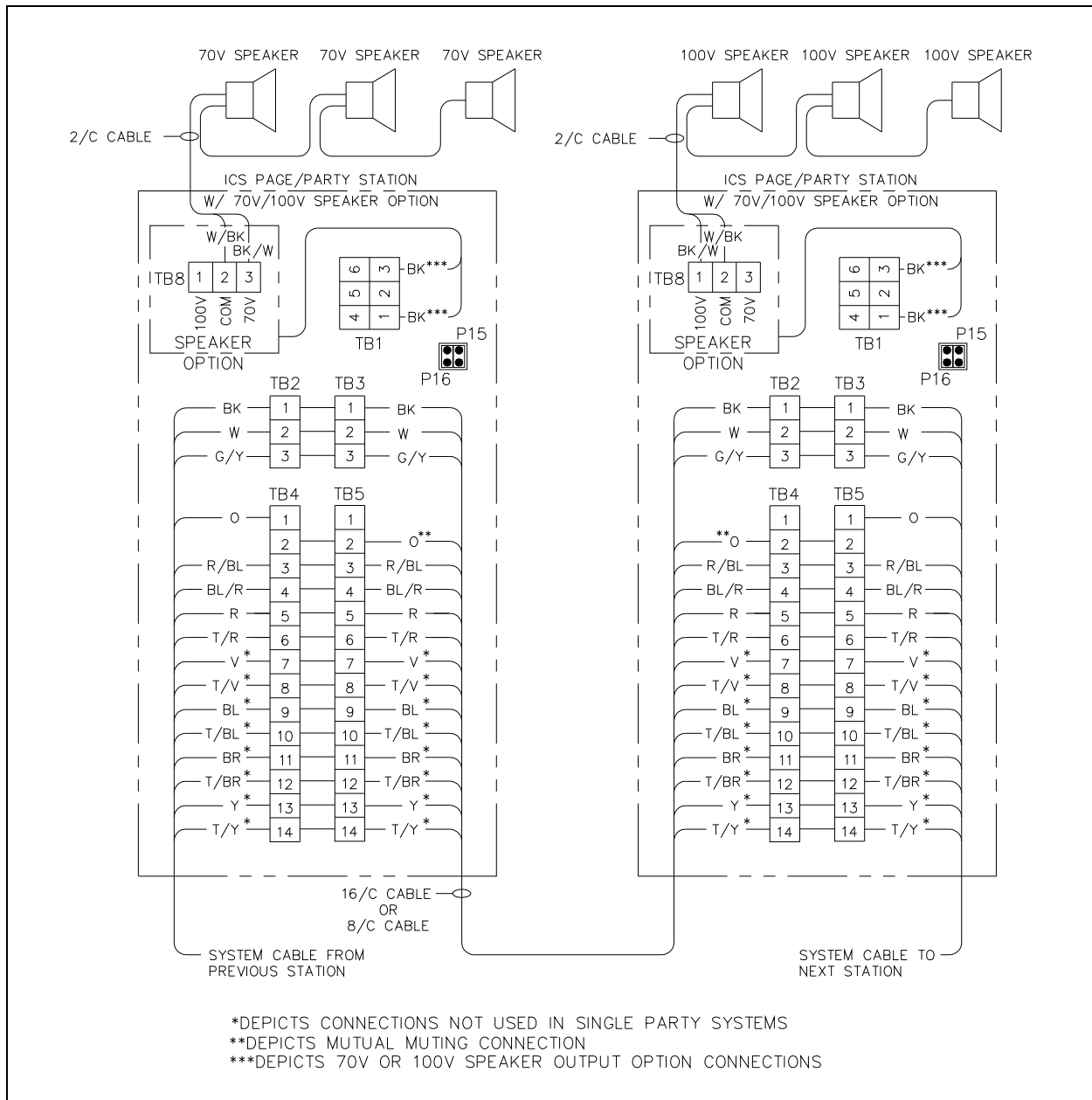


Figure 5. 70V/100V Speaker Connections

### Attaching the Front Panel

After all adjustments have been completed, place the front cover in the rear enclosure, being careful not to pinch any cables. Secure the front cover using the four screws and washers provided. Torque the screws to 50 in-lbs (5.65 n-m).

# 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.