Pub. 42003-274B

GAI-TRONICS®
A HUBBELL COMPANY

Ring Detect Relay Kit

Models 12565-009 and 12565-010

Confidentiality Notice

General Information

The ring detect relay kit activates a peripheral device, such as a beacon or sounder, when ring voltage is present at the telephone. The kit includes a PCBA, mounting hardware and a USOC RJ11C modular connector cord.

Use the Model 12565-009 Kit with the Model 354-001 NEMA 4X Industrial Telephone or Model 276-001 Flush-Mount Handset Telephone with Keypad. Use the Model 12565-010 Kit with the Model 246-001 Indoor Industrial Telephone or Model 256-001 Outdoor Industrial Telephone.

The ring relay PCBA connects to the industrial telephone PCBA via the USOC RJ11C modular connector cord. This connects the telephone input wiring directly to the ring detect relay PCBA. Install the ring detect relay PCBA on the back of the front panel in all applicable models (see the Model 354-001, Model 276-001, or Models 246-001 and 256-001 installation section).

The kits include the following components:

Table 1. Model 12565-009 Components

Qty	Description
1	ringer relay PCBA
2	standoffs, #6-32 ×1.00-inches, 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

Table 2. Model 12565-010 Components:

Qty	Description
1	ringer relay PCBA
2	standoffs, 4-40 × 1.18 inches, M/F
2	standoffs, 4-40 × 1.25 inches, M/F
4	Phillips head machine screws, 4-40 × 5/16-inch
1	PCBA mounting plate
1	modular connector cord, USOC RJ11C
2	Phillips head machine screws, 6-32 × 5/16-inch

Installation

Model 354-001

Use the parts 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 telephone line; red (ring) and green (tip) from terminal block TB1, of the industrial telephone PCBA.
3. Install two (provided) 6-32 × 1.0-inch F/F standoffs onto the weld studs on the back of the front panel (see Figure 1).
4. Align the ring relay PCBA with the two standoffs.

   Note the orientation of the ring relay PCBA (see Figure 1).
5. Secure using two #6-32 screws provided.
6. Connect the incoming telephone line to terminal block TB1, on the ring relay PCBA (see Figure 2).
7. Connect the external sounder or beacon to terminal block TB2, on the ring relay PCBA (see Figure 2 and Figure 3).
8. Connect the (provided) USOC RJ11C modular connector cord from the industrial telephone PCBA (see Figure 4) to the ring relay PCBA (see Figure 2).
9. Place the front cover onto the back box/enclosure. Secure the front cover to the back box/enclosure using the four 10-32 security screws, retained in step one.

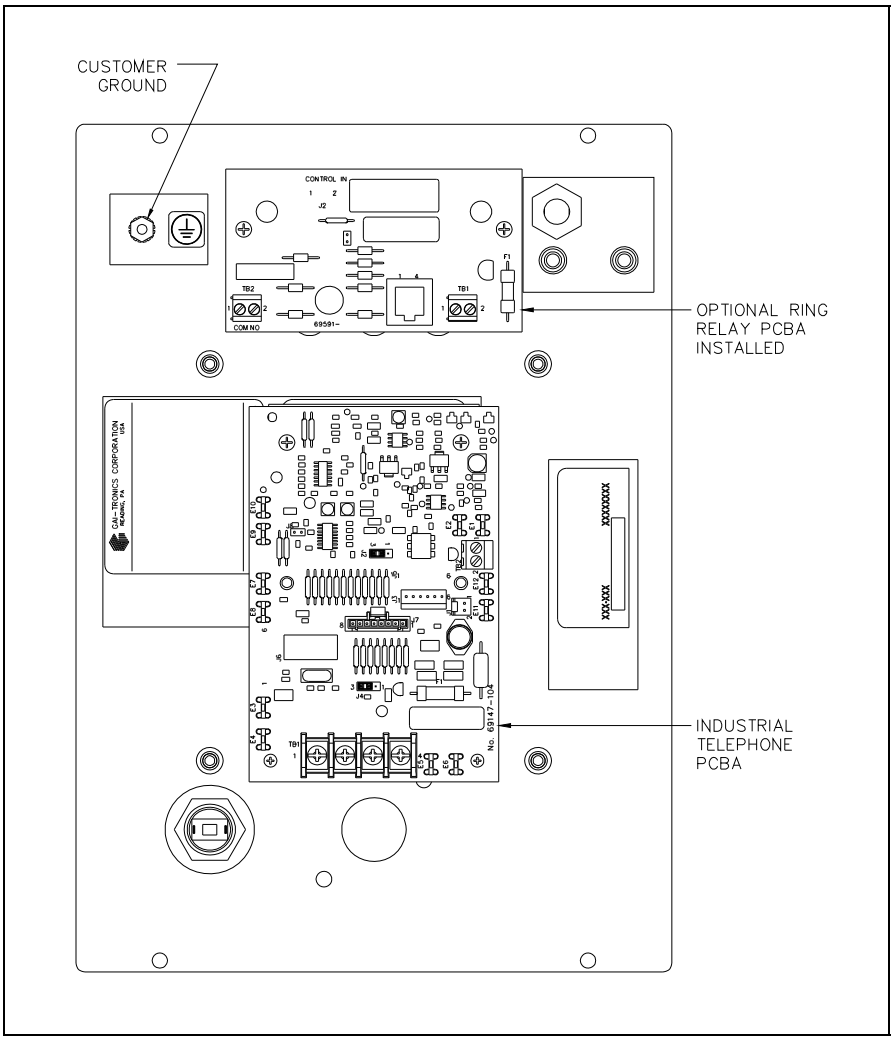

Figure 1. Model 354-001 Front Panel Interior

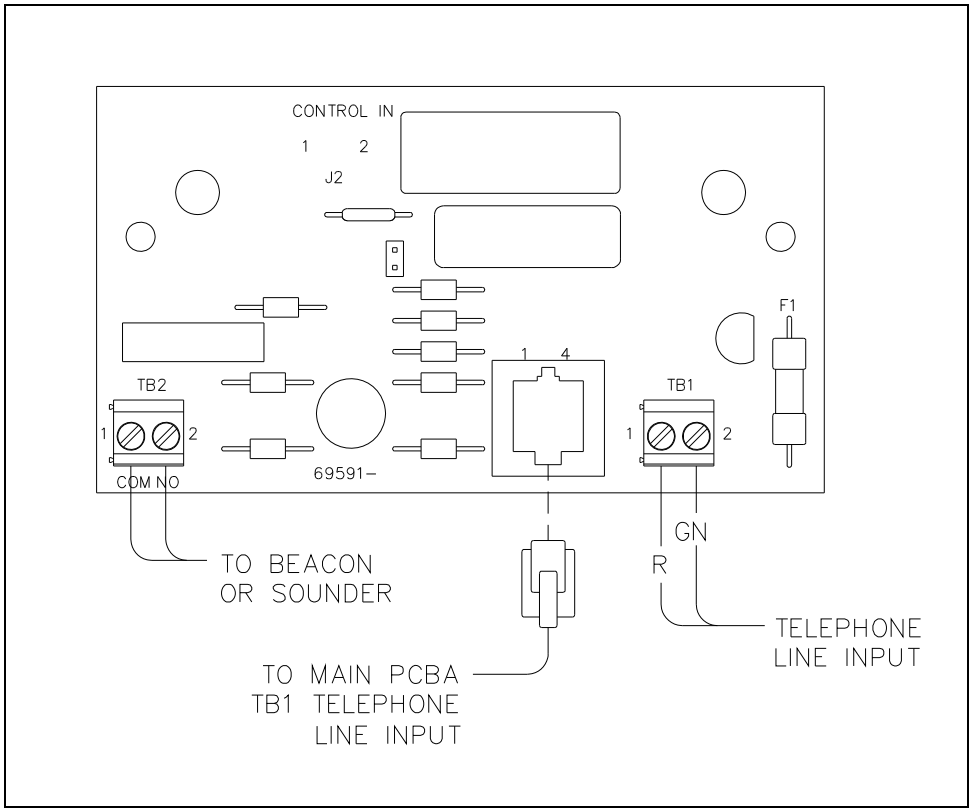

Figure 2. Ring Relay PCBA Wiring

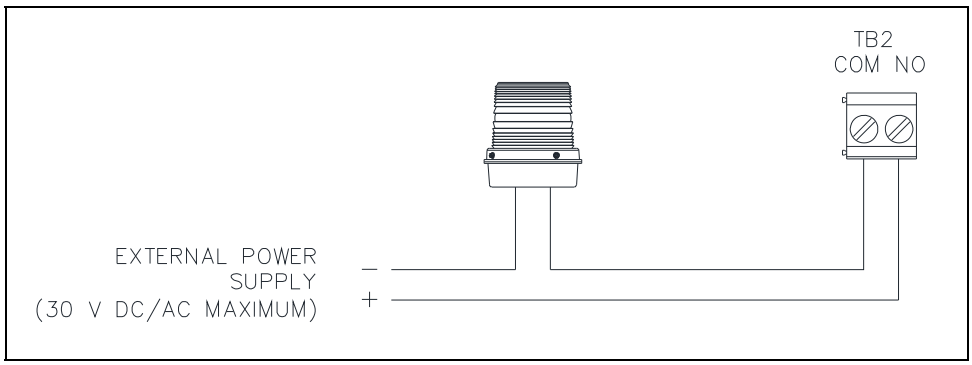

Figure 3. Device Interconnection

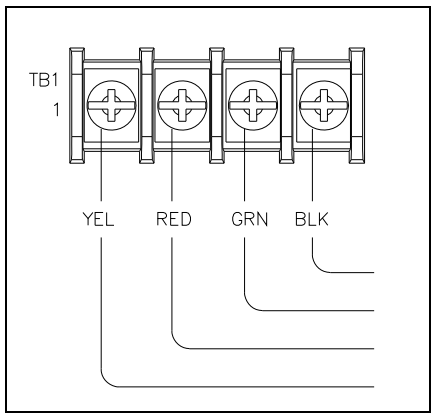

Figure 4. Terminal Block TB1 on the Industrial Telephone PCBA

Model 276-001

Use the parts in the Model 12565-009 Kit:

1. Remove the six #10-32 security screws from front cover of telephone. Pull the cover away from the back box/enclosure. Retain the screws.
2. Disconnect the incoming telephone line; red (ring) and green (tip) from terminal block TB1, on the industrial telephone PCBA.
3. Screw two (provided) 6-32 × 1.25-inch F/F standoffs onto the two weld studs, on the back of the front panel (see Figure 5).
4. Align the ring relay PCBA with the two standoffs.

   Note the orientation of the ring relay PCBA (see Figure 5).
5. Secure the ring relay PCBA, to the back of the front cover, using two (provided) #6-32 screws.
6. Connect the incoming telephone line to terminal block TB1, on the ring relay PCBA (see Figure 2).
7. Connect the external sounder or beacon to terminal block TB2, on the ring relay PCBA (see Figure 2 and Figure 3).
8. Connect the (provided) USOC RJ11C modular connector cord, from the industrial phone PCBA (see Figure 4), to the ring relay PCBA (see Figure 2).
9. Place the front cover onto the back box/enclosure. Secure the front cover to the back box/enclosure using four 10-32 security screws, retained in step one.

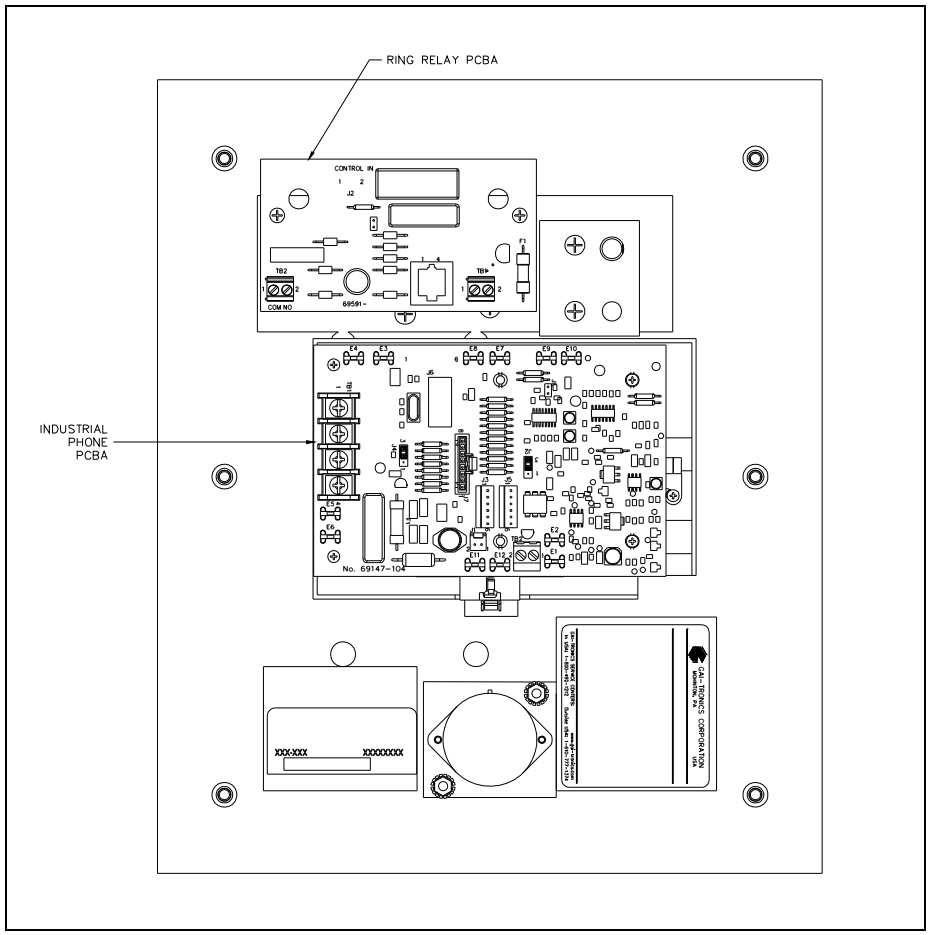

Figure 5. Model 276-001 Front Panel Interior

Models 246-001 and 256-001

Use the parts in the Model 12565-010 Kit:

1. Remove the four #10-32 screws from front cover of telephone. Pull cover away from the back box/enclosure. Retain the screws.
2. Disconnect the incoming telephone line; red (ring) and green (tip), from terminal block TB1, on the industrial telephone PCBA.
3. Remove the two #4-40 screws installed above ringer. Replace with two (provided) #4-40 × 1.18-inch M/F standoffs (see Figure 6).
4. Install two (provided) #4-40 × 1.25-inch M/F standoffs into the front cover inserts, located below ringer.
5. Align the (provided) ring detect relay PCBA mounting plate to the four standoffs.

   Note the orientation of mounting plate (see Figure 6).
6. Secure with four (provided) #4-40 screws.
7. Align the ring relay PCBA with the two standoffs, on the ringer relay mounting plate.

   Note the orientation of the ring relay PCBA (see Figure 7).
8. Secure the ring relay PCBA to the mounting plate using two (provided) #6-32 screws.
9. Connect the incoming telephone line to terminal block TB1, on the ring relay PCBA (see Figure 2).
10. Connect the external sounder or beacon to terminal block TB2, on the ring relay PCBA (see Figure 2 and Figure 3).
11. Connect the (provided) USOC RJ11C modular connector cord from the industrial phone PCBA (see Figure 4) to the ring relay PCBA (see Figure 2).
12. Place the front cover onto the back box/enclosure. Secure the front cover to the back box/enclosure using four 10-32 screws, retained in step one.

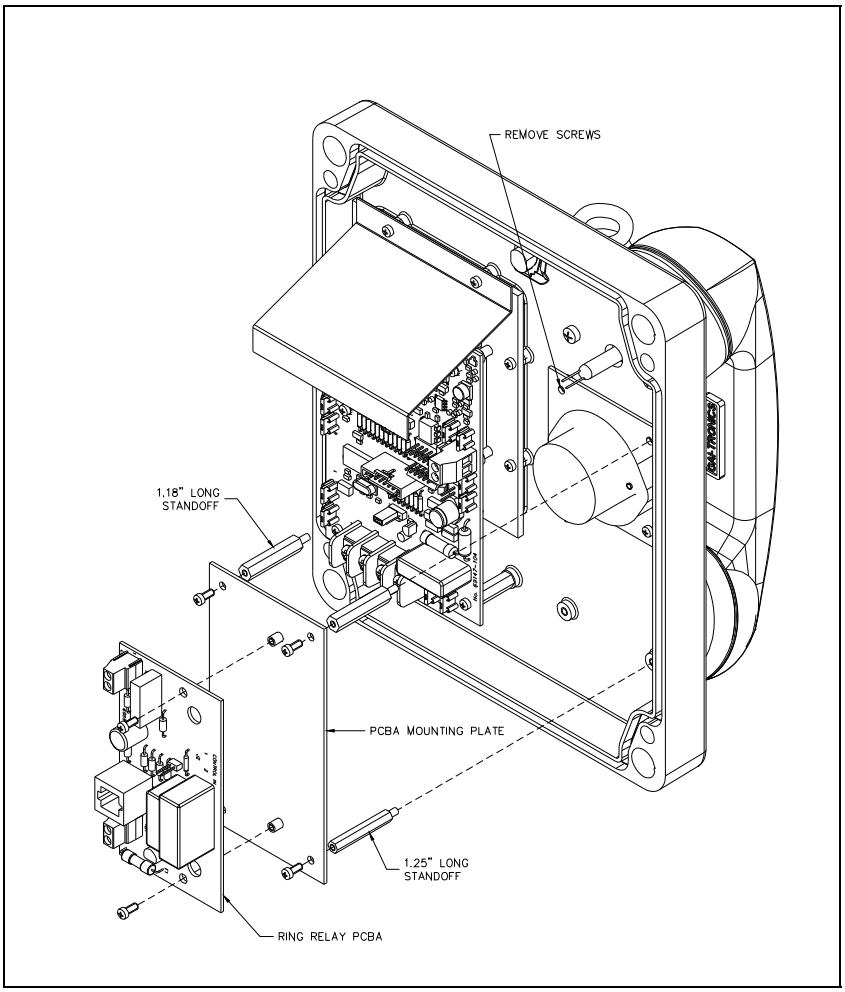

Figure 6. Model 246-001 and 256-001 Exploded View

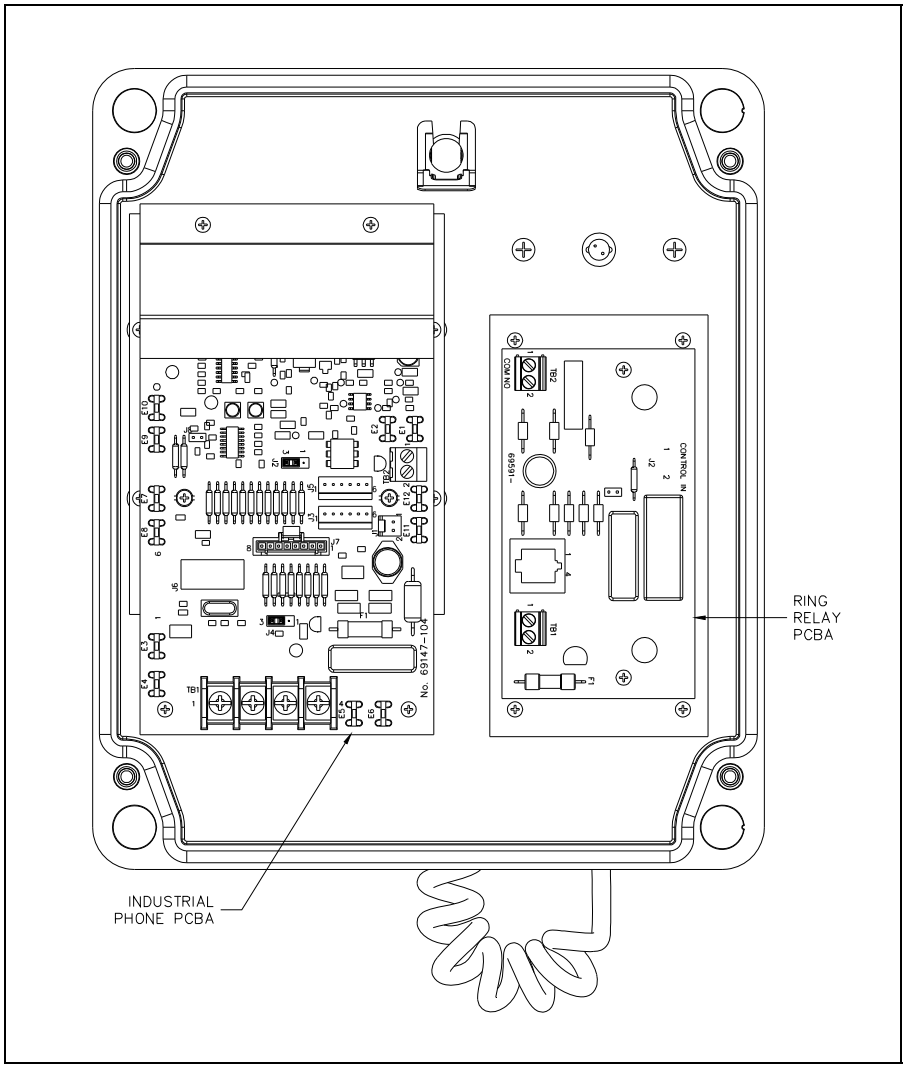

Figure 7 Model 246-001 and 256-001 Front Panel Interior

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.