

## *ICW-3 Window Intercom*

### *Installation and Operation Instructions*



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## **WARRANTY NOTICE**

See the enclosed warranty card for further details.

## **CUSTOMER SUPPORT**

Technical questions should be directed to:

Customer Service Department  
RTS/Telex Communications, Inc.  
12000 Portland Avenue South  
Burnsville, MN 55337 USA  
Telephone: 800-392-3497  
Fax: 800-323-0498  
Factory Service: 800-553-5992

## **RETURN SHIPPING INSTRUCTIONS**

Customer Service Department  
Telex Communications, Inc. (Lincoln, NE)  
Telephone: 402-467-5321  
Fax: 402-467-3279  
Factory Service: 800-553-5992

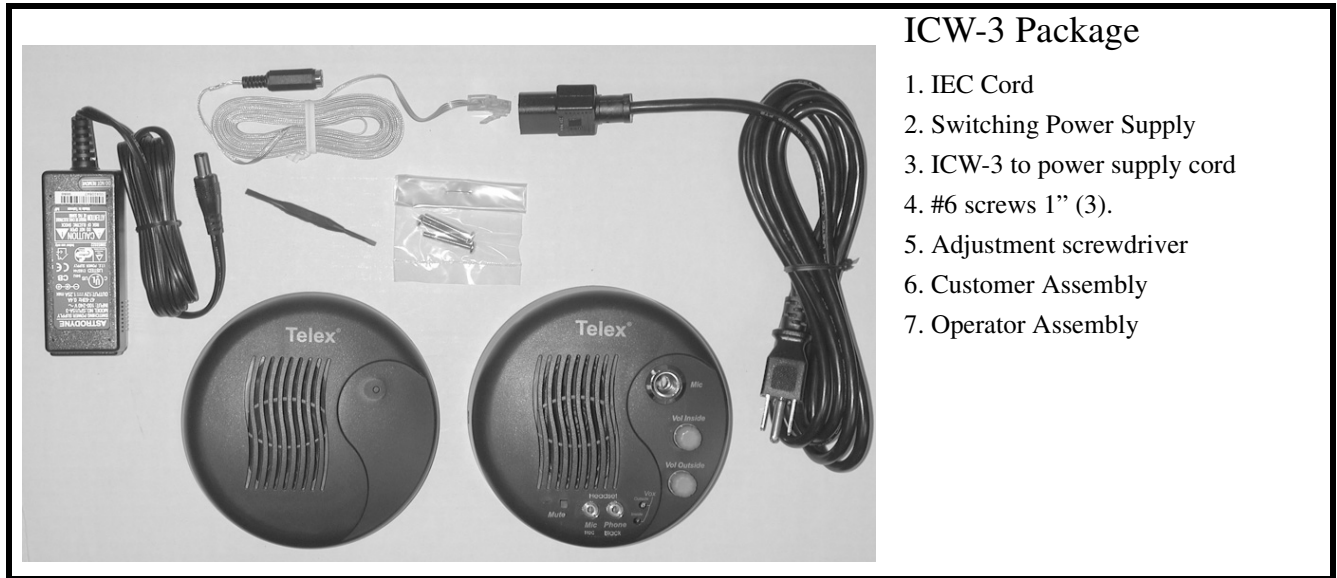
Please include a note in the box which supplies the company name, address, phone number, a person to contact regarding the repair, the type and quantity of equipment, a description of the problem and the serial number(s).

## **SHIPPING TO THE MANUFACTURER**

All shipments of product should be made via UPS Ground, prepaid (you may request from Factory Service a different shipment method). Any shipment upgrades will be paid by the customer. The equipment should be shipped in the original packing carton. If the original carton is not available, use any suitable container that is rigid and of adequate size. If a substitute container is used, the equipment should be wrapped in paper and surrounded with at least four (4) inches of excelsior or similar shock-absorbing material. All shipments must be sent to the following address and must include the Proof of Purchase for warranty repair. Upon completion of any repair the equipment will be returned via United Parcel Service or specified shipper, collect.

Factory Service Department  
Telex Communications, Inc.  
8601 East Cornhusker Hwy.  
Lincoln, NE 68507 U.S.A.  
Attn: Service

## *Unpacking and Inspection*



### **ICW-3 Package**

1. IEC Cord
2. Switching Power Supply
3. ICW-3 to power supply cord
4. #6 screws 1" (3).
5. Adjustment screwdriver
6. Customer Assembly
7. Operator Assembly

**FIGURE 1. ICW-3 System Components**

Unpack the equipment from the shipping case and inspect for missing or damaged components. You should have all of the items listed in Figure 1 .

## *Recommended Items*

1. No.1 Phillips screwdriver
2. Equipment for cutting/drilling hole(s) for mounting (See Installation section for details)
3. 1" wide transparent tape
4. Scissors (For cutting the mounting template from the last page).

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## Specifications

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### General

#### Power Requirement

12 to 15 VDC, 150 mA nominal

#### System Frequency Response

200 to 4.5 kHz  $\pm 3$  dB

#### Environmental

-20° C to 55° C, 0% to 90% humidity, non-condensing

### Outputs

#### External Speaker

2W: 100dB SPL at 1ft. at 1 kHz, C weighting

#### Internal Speaker

2W: 100dB SPL at 1ft. at 1 kHz, C weighting

**Note:** These are sine wave maximums. Voice measurements will range 70 to 90 dB SPL.

#### Headphones

80 mW: 100dB peak SPL

Voice Range: 84 to 104 dB SPL

Impedance: 25 ohms

### Inputs

#### Internal Panel Microphone

Electret: 15 mv at 1kHz, typical into 1000 ohms source impedance

#### External Headset Microphone

Dynamic: range 2 mv at 1kHz, typical into 200 ohms

Source Impedance Dynamic: 200 ohms

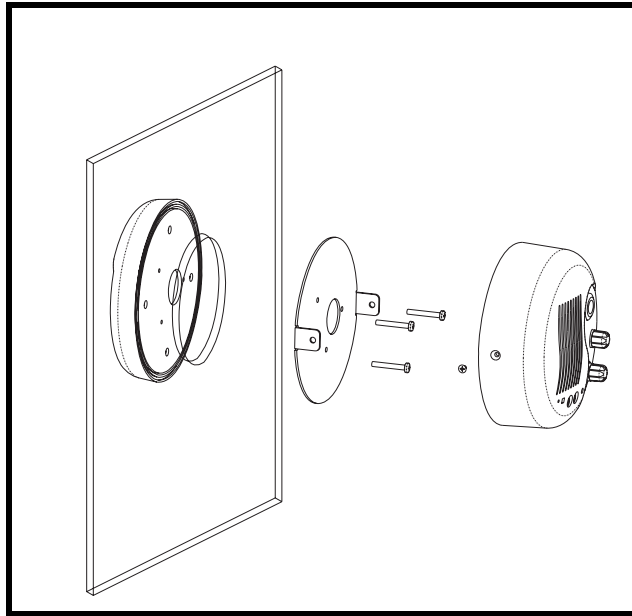
### Options

#### Gooseneck Microphone

MCP-90-3, MCP-90-8, MCP-90-12, MCP-90-18

#### Headsets

PH-44-IC3 (Dual Headphone), PH-88-IC3 (Single Headphone)



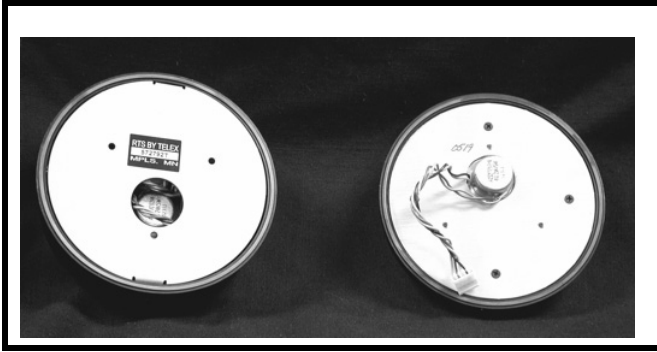
**FIGURE 2. ICW-3 Assembly Detail**

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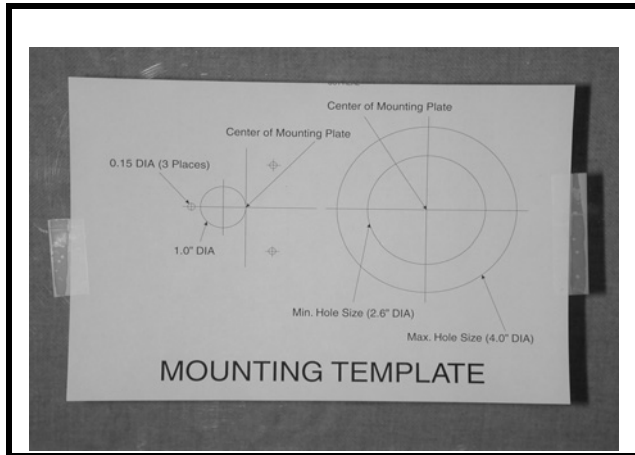
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## *Installation*

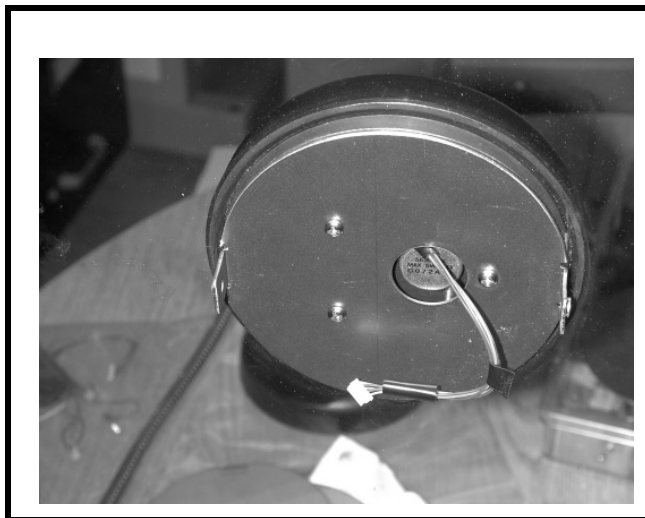
1. Remove the two screws (one on each side) holding the mounting plate to the operator assembly. (See Figure 2 .)
2. Measure and identify the location where the intercom is to be mounted.
3. Attach the mounting template to the window (customer assembly side) being sure to center the appropriate guide in the location identified in step 2. Note, there are two guides provided on the last page of these instructions. Use either the single large hole, or multiple small holes depending on which method you choose. Using the multiple small hole method with bullet-proof glass will afford maximum operator protection (Figure 4 on page 6).
4. Cut and/or drill the hole(s) from the customer assembly side.
5. Have an assistant place the customer assembly against the window. Make sure the holes line up correctly. Attach the mounting plate removed from the operator assembly (see step 1) using the three supplied mounting screws. (See Figure 5 on page 6).
6. Attach the cable harness from the customer assembly to the connector on the operator assembly (See Figure 6 on page 6).
7. Attach the operator assembly to the mounting plate using the screws removed in Step 1.
8. Plug the RJ-45 end of the ICW-3 power supply interface cord into the ICW-3. the connector is located on the bottom of the ICW-3 on the operator assembly side. Secure the cord to the glass using wide clear adhesive tape.
9. Connect the power supply to AC power using the supplied IEC cord. Attach the ICW-3's power cord to the power supply.



**FIGURE 3. Operator and Customer assemblies**



**FIGURE 4. Mounting Template**



**FIGURE 5. Customer Side Mounted**



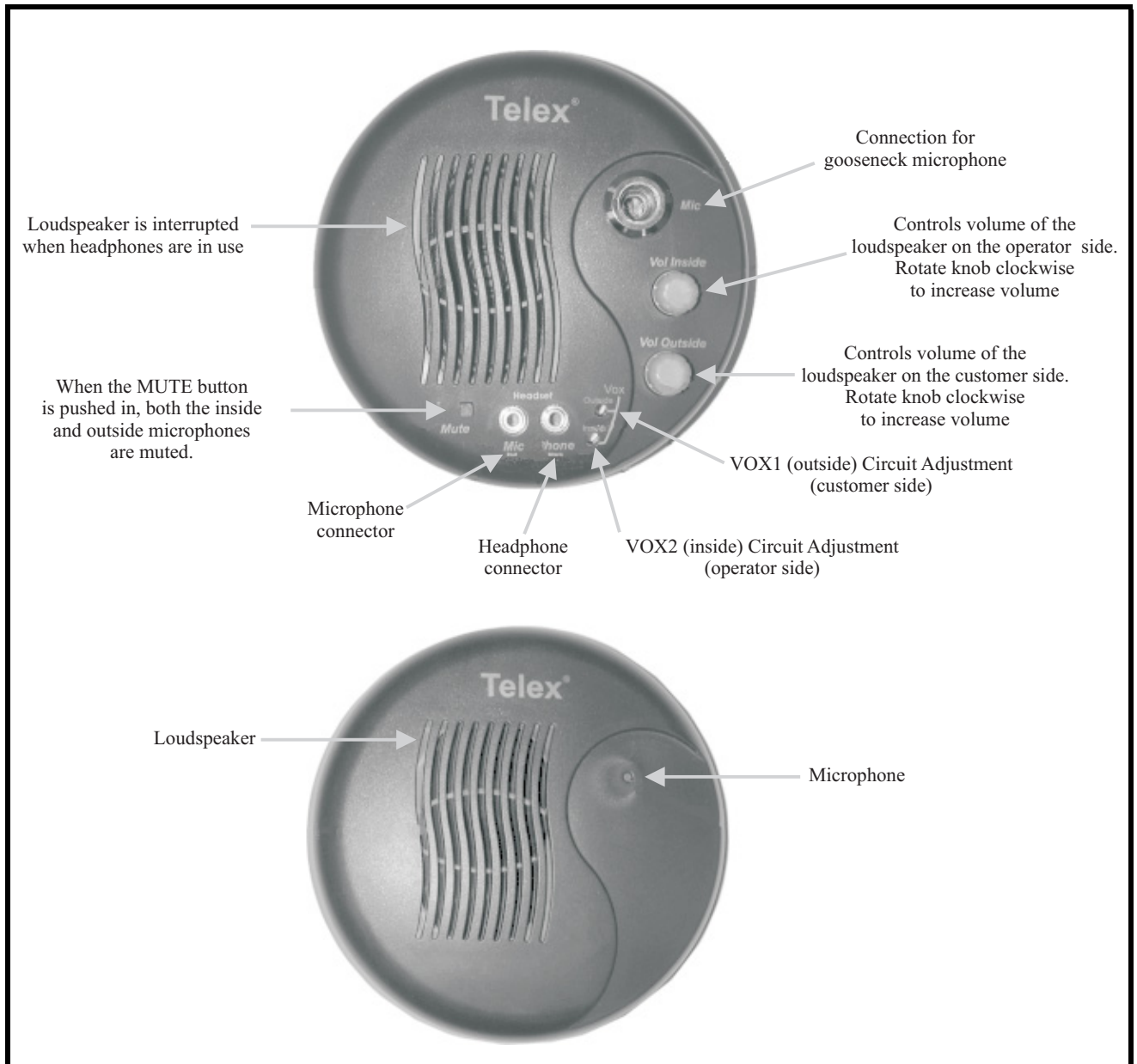
**FIGURE 6. Connecting customer and operator assemblies prior to final mounting.**

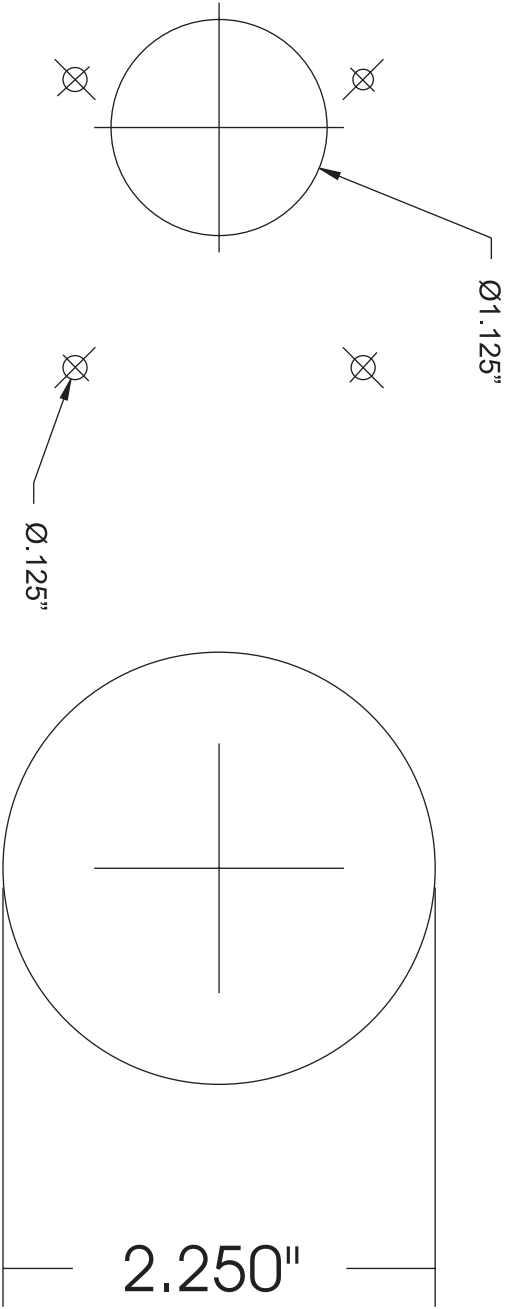
### *Vox Circuit Adjustment*

**NOTE:** The unit is shipped from the factory with the VOX circuit pre-adjusted. Use this procedure only if you encounter a problem where the VOX circuit does not properly switch between the operator and customer when they are talking. In some situations, particularly when ambient noise levels vary over time, it may be necessary to “touch up” the VOX adjustments.

1. Locate the two VOX pots: VOX1 and VOX2. They are located on the operator assembly side of the unit.
2. Set VOX1 (top hole) all the way clockwise. Set VOX2 (bottom hole) all the way clockwise
3. Locate the customer and operator volume controls. they are located on the operator side of the unit. Set each of them to the middle of their adjustment range.
4. Have an assistant talk on the outside microphone and using the included screwdriver adjust VOX2 (bottom hole) so that the VOX just triggers and you can be heard by your assistant on the speaker on the customer side. Then turn the pot just a little further.
5. Talk back and forth and adjust VOX1 (top hole) and VOX2 (bottom hole) very carefully to get the proper VOX switching action. Be sure to talk directly into the microphones because they are close talking.

## Operation





# MOUNTING TEMPLATE





