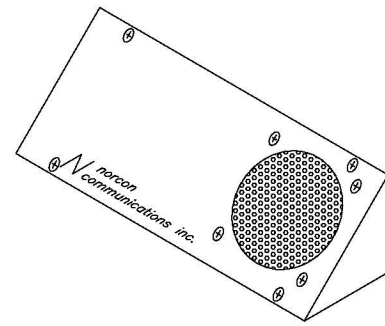




## Norcon TTU@-3X Series

Installation & Operating Instructions.



### TTU@-3X Outside Unit

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### 4. Recommended cables for wiring :

For all Spk /mic connections use West Penn Wire #357. This is a four conductor 22 gauge wire with two wires that are shielded and two are without shield. Use the shielded pair for the mic connection. For power and paging connections use West Penn wire #221. This is a stranded single pair 22 awg, Plenecon -II jacket Rohs cable. Keep Mic/Spk and power cable bundles away from other power cable. Route the two pair cable (with connector on one end) from the inside unit to the outside unit. Make sure the connector is in the inside unit. Attach the cable to the terminal block on the outside unit, color to color. Connect shield to black wire. Join the connector with the wire harness from the printed circuit board so the colors line up.

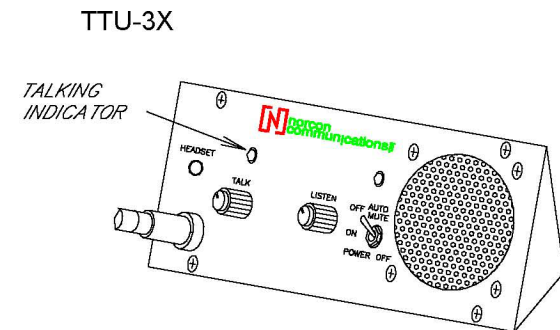
5. For power connection, route one pair cable (with the connector on one end) from the inside unit to the location of the PS-1 Power supply. Connect the conductors to the power supply (RED to +, BLACK to -). Plug the connector to its mate from the printed circuit board.

6. The sound absorbing material in the housing may be removed during installation but should be replaced for normal operation.

7. For best result, maintain maximum separation between inside and outside units.

### HOW TO USE THE TALK-THRU COMMUNICATOR:

1. With power switch off, turn Talk and Listen controls completely counter clockwise.
2. Turn the unit on the unit by switching POWER switch to the up position. In this position the unit also in the AUTO MUTE mode.
3. Adjust the TALK volume control until the attendant is clearly heard by the person outside the window when the attendant is speaking 2" to 4" from the gooseneck microphone at a normal speaking level. The green LED should turn on when attendant starts talking and go off when the attendant stops talking. If the green LED stays lit constantly, it indicates either the TALK volume setting or the ambient noise is too high.
4. Adjust the LISTEN control until the person outside the window is clearly heard when speaking at a normal level. In most situations, both the TALK and LISTEN volume are normally set to 11 to 12 o'clock position.



### TTU@-3X Series 2-Way Talk-Thru Electronic Communication System:

A voice communications system for High-Security and Isolation Booth Situations.

In today's security conscious environment, isolation booths are often the ideal recourse to protect your employees. But does it facilitate and help maintain your very important public image? Not if clerks and customers have to raise their voice and repeat themselves to be heard or understood.

Norcon's Patented TTU@-3X Talk-Thru Communicator is a 2-way, hands-free audio system that provides high-quality personal communication between people separated by security or isolation barriers.

#### FEATURES

- Clear 2-way hands-free voice communication.
- Superior quality electronic design and engineering.
- Avoids raising your voice, repetition, and misunderstanding.
- Simple, one-person installation. No need to cut a hole in the barrier.
- Rugged, tamper-resistant materials. Anodized aluminum
- Removable XLR mic for your convenience.
- Units available for ADA applications.
- Headset jack equipped on all models. Headset can be ordered separately.
- Export models available.

### HOW IT WORKS ...

The Norcon TTU@ system permits hands-free, 2-way communication between the booth attendant and the customer. Unique circuitry facilitates ongoing, clear, 2-way conversation at all times – as if the two parties were together in the same room. The TTU@-3X Talk-Thru Communicator now incorporates circuitry to automatically attenuate the outside channel. If the gooseneck microphone is not used for a period of 30 seconds, the outside channel volume will be reduced approximately 70%. Normal operation is restored as soon as the attendant speaks into the gooseneck microphone. The automatic volume attenuation circuit prevents outside noise from bothering the attendant. The TTU@-3 X provides clear communication even in environments with high ambient noise by shaping the sound for maximum intelligibility. Its compression circuitry decreases loud, annoying sounds.

### HOW TO INSTALL ...

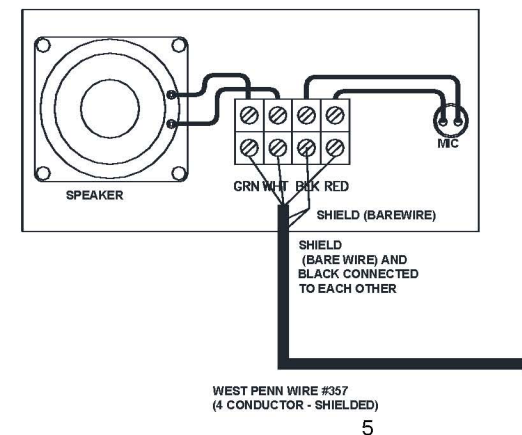
1. Mount the TTU@ unit using the method shown in figure (1).
2. Remove the control panel from the prism-shaped housing. The "Inside" unit houses the circuit board for the system, the gooseneck microphone, volume control, power switch, Power indicator LED and speaker. The "Outside" unit has no electronics. A speaker and a microphone are attached to the "Outside" unit.
3. Use holes on the housing where required for installation.

**Operation Hints:** Increasing the talk volume control allows the attendant to speak further from the gooseneck microphone as well as increasing the talk channel volume. The optimum distance from the gooseneck microphone should be maintained at approximately 3" or conversations not directed to customers may be heard outside the booth.

The unit will decrease the incoming volume level by approximately 70% in about 30 seconds after the attendant stops speaking into the gooseneck microphone. The purpose of this feature is to decrease the amount of extraneous noise entering the booth when no one is at the booth. Normal volume level is restored when the attendant speaks into the gooseneck microphone. The muting function can be defeated by switching the POWER switch to NO MUTE position.

Install a headset into the headset jack will allow communications from the headset and disconnect the gooseneck microphone.

#### TTU-3 OUTSIDE UNIT WIRING



### SPECIFICATIONS:

#### MECHANICAL:

- Outside assembly: machined aluminum, anodized finish, Tamper-resistant.
- Inside assembly: Machined aluminum, anodized finish, Tamper-resistant.
- Size (both assembly): 6" W x 2 3/8" H x 2 3/8" D
- Goose neck microphone length 18"
- Weight: 4 lbs.
- Mounting: Countertop.
- Panel control: Listen volume, Talk volume, power on/off, and LED power indicator.

#### ELECTRONIC:

- Audio frequency response: Selectively shaped for maximum voice intelligibility.
- Audio power: 2 watts per channel.
- Distortion: Less than 2%.
- Listen mode: 20dB compression
- Talk mode: VOX
- Microphones: Electret
- Power supply: Input 90-240V / 60Hz AC
- Output 15V DC, 1A.FCC, UL,CE, level VI.
- Talk-Thru systems are shipped complete with cables, power supply and instruction.

Specifications are subject to change without notice.