

Ticket Booth System

Kit Contains: User Station, Control Unit, Speaker Driver, Mic Tube, Acoustic Tubing, Power Supply
Additional Equipment: Proximity Sensor, Paging Speaker

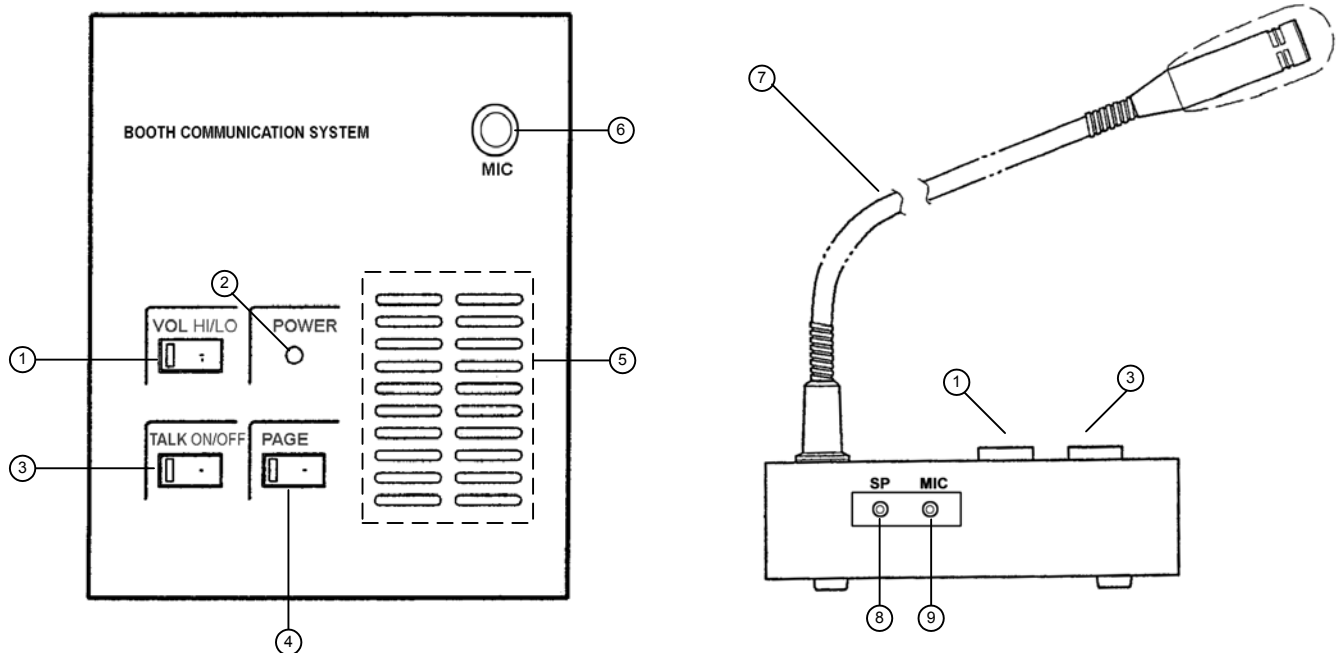
- INSTRUCTIONS -

The Aiphone ticket booth system provides VOX operated hands-free communication between a customer and an employee who are on opposite sides of bullet proof glass. The system uses a speaker driver and acoustic tubing to provide communication without compromising the integrity of the bullet proof glass. A microphone mounted within the acoustic tubing provide incoming voice. In addition to communication, the system can be proximity activated and features ambient noise and voice volume controls. An additional overhead paging speaker may also be connected to provide general announcements.

1 NAMES, FUNCTIONS & MOUNTING

Names & Functions

-User Station -



NAMES & FUNCTIONS:

1. Vol button (Hi/Lo)
2. Power LED
3. Talk Button (On/Off)
4. Page Button

5. Speaker
6. Gooseneck Mic Socket
7. Gooseneck Mic (Approx. 24')
8. Headset Speaker Output (3.5mm Jack)
9. Headset Microphone Input (3.5mm Jack)

Mounting

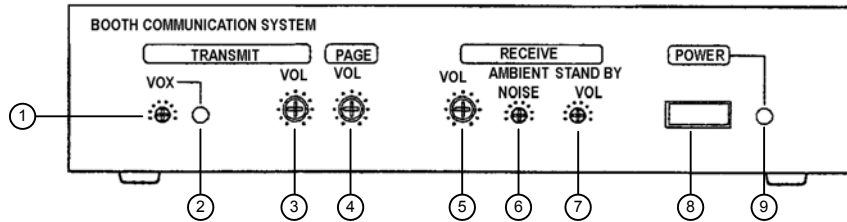
- User Station -

The User Station is designed for desk mounting. Its rubber feet will grip to most surfaces and prevent the unit from slipping or moving unnecessarily. The flexible gooseneck microphone allows individual adjustments after installation. The User Station must be mounted within six feet of the Control Unit and is connected via the supplied connector.

1 NAMES, FUNCTIONS & MOUNTING (Cont.)

Names & Functions

- Control Unit (Front) -



NAMES & FUNCTIONS:

- | | |
|----------------------------------|------------------------------------|
| 1. VOX Sensitivity Adjustment | 5. Receive Volume Control |
| 2. VOX operation LED | 6. Ambient Noise Canceling Control |
| 3. Transmit Volume Control | 7. Standby Volume Control |
| 4. Paging Speaker Volume Control | 8. Power Button |
| | 9. Power LED |

Mounting

- Control Unit -

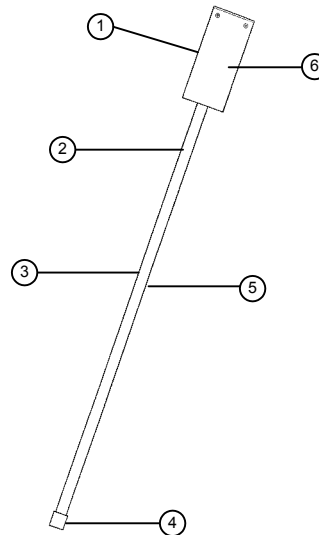
The Control Unit can be desk or under-counter mounted using the supplied bracket. Its rubber feet will grip to most surfaces and prevent the unit from slipping or moving unnecessarily. *The Control Unit must be mounted within 6 feet of the User Station.* Wiring to the Control Unit is via positive grip push connectors, located on the back of the unit.

Names & Functions

- Speaker Driver, Mic Tube and Acoustic Tubing -

NAMES & FUNCTIONS:

1. Speaker Driver
2. Acoustic Tubing
3. Mic Tube (Typical)
4. End Cap
5. Mounting Rail (Under acoustic tube)
6. Driver Access Panel

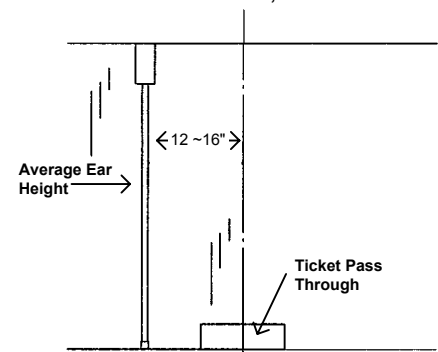


Mounting

- Speaker Driver, Mounting Rail, Mic Tube and Acoustic Tubing -

Typically the speaker driver is mounted either directly to or in the ceiling above the ticket window. Optimum acoustic pipe location is 12 ~ 16 inches from the center of the ticket pass through. For smaller windows, the acoustic pipe may be mounted at the junction of the window and frame.

1. Determine mounting location on the customer side of the window.
2. Thoroughly clean glass.
3. Using an erasable pen, draw a guide line where the acoustic pipe will be mounted.
4. Mark in the guide line where average person's ear will be while they are standing in front of the window.



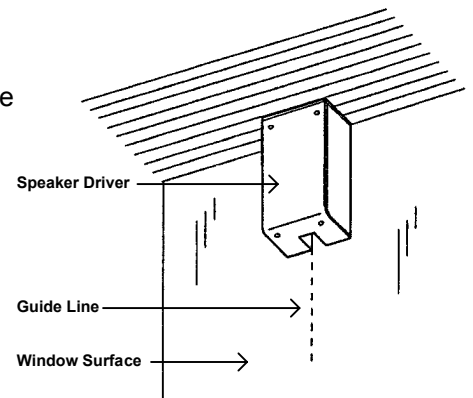
1 NAMES, FUNCTIONS & MOUNTING (Cont.)

Mounting

- Speaker Driver -

The Speaker Driver is mounted above the Ticket Window and is connected to the Acoustic Tube through the output opening. The Speaker Driver can be mounted directly to or in the ceiling above the window. The Driver Access Panel must remain accessible for future maintenance.

1. Remove the Drive Access Panel.
2. Center the output opening of the speaker driver over the guide line.
3. If mounting directly to the window surface, mount the speaker driver using the supplied epoxy tape.
4. If mounting the Speaker Driver in the ceiling above the window, fabricate a mounting plate and use it to secure the speaker driver.
5. After connecting and wiring the mic tube, replace the Driver Access Panel.

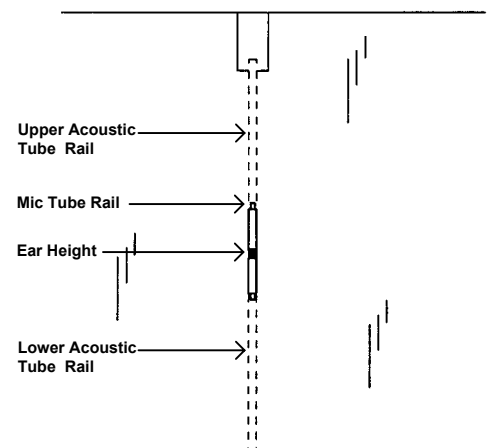


Mounting

- Mounting Rail -

The Mounting Rail is connected to the surface of the ticket window using the included double sided epoxy tape. It should be assembled in three sections: The Mic tube rail and the upper and lower acoustic tube mounting rail.

1. Center the Mic Tube rail at the "Ear height" marking on the guide line. This should also center it under the output opening of the Speaker Driver.
2. Mount the Mic tube rail using the supplied epoxy tape with the short side of the base pointing up.
3. Measure and cut pieces of the acoustic tube mounting rail. The upper piece should be inside the output opening of the Speaker Driver. The lower piece should reach the bottom of the window frame.
4. Mount the pieces to the surface of the window using the supplied epoxy tape.

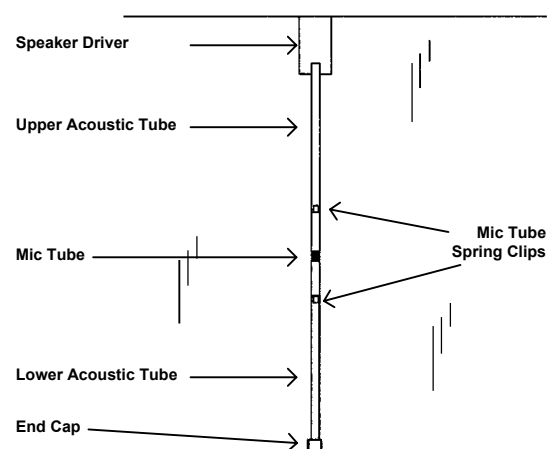


Mounting

- Mic Tube, Acoustic Tubes and End Cap -

The Mic and Acoustic Tubes are mounted to their appropriate Mounting Rails and held in place by spring clips attached to the Mic Tube.

1. Cut the Upper Acoustic Tube so that the top reaches inside the output opening of the Speaker Driver.
2. Cut the Lower Acoustic Tube so that the bottom reaches the bottom of the window frame.
3. Feed the five Mic/Speaker wires from the Mic Tube through the Acoustic Tube and out the top of the Speaker Driver.
4. Attach the Acoustic Tubes to the Mic Tube by depressing the spring clip of the Mic Tube. The components should fit together snugly.
5. Attach the End Cap to the lower Acoustic Tube



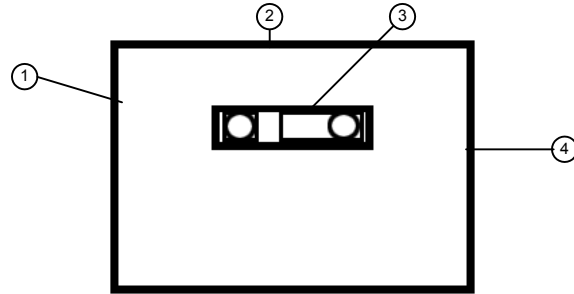
1 NAMES, FUNCTIONS & MOUNTING (Cont.)

Names & Functions

- Proximity Sensor (Front) -

NAMES & FUNCTIONS:

1. Faceplate
2. Power LED
3. Proximity Sensor
4. Proximity Adjustment



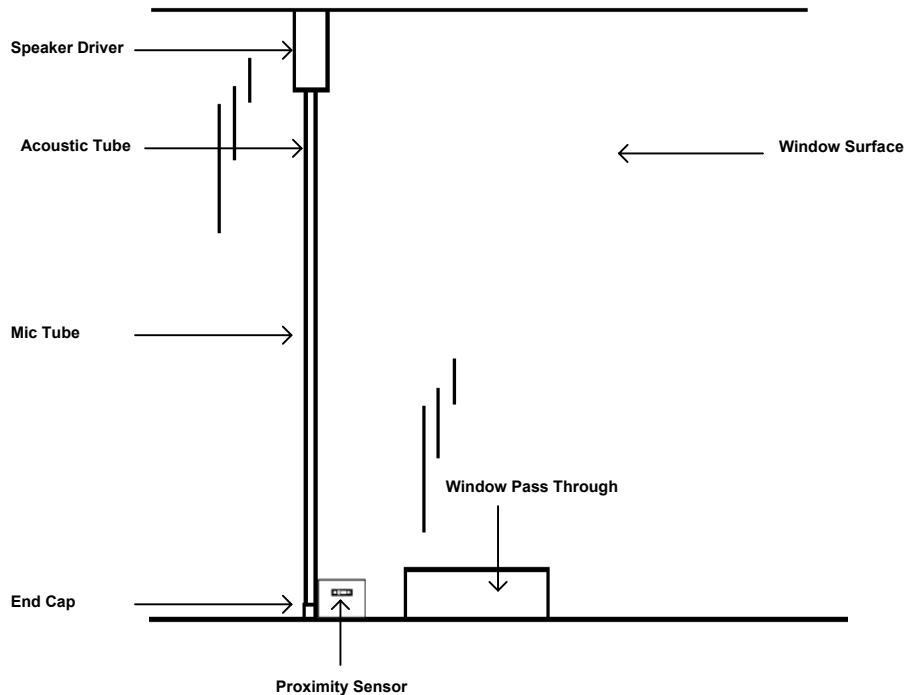
Mounting

- Proximity Sensor -

The Proximity Sensor is connected to the surface of the ticket window using the included epoxy. Mount the Proximity Sensor in the approximate center of where the customer will be standing. Ensure that the Proximity Adjustment is accessible after mounting. Proximity Sensor is typically mounted on the inside of the ticket window.

Names & Functions

- Component Layout-



2 COMPONENTS & WIRING

TERMINAL DEFINITIONS:

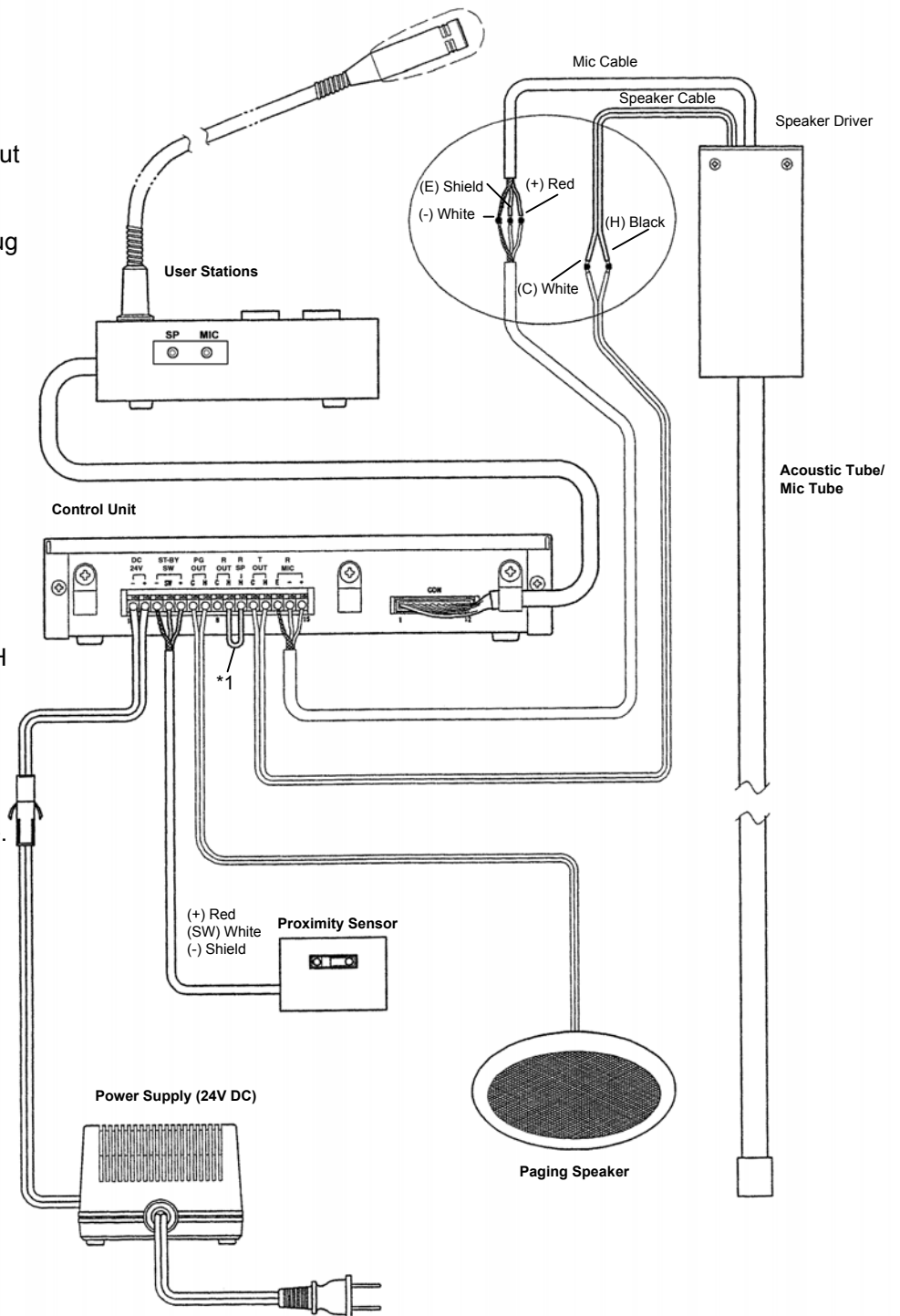
CONTROL UNIT

DC 24V	24V DC Power
ST-BY SW	Proximity Sensor Input
PG OUT	Paging Speaker Output
R OUT	Receive Speaker Output
R SP	User Station Speaker Input
T OUT	Speaker Driver Output
R MIC	Microphone Input
CON	Desk Unit Connecting Plug

USER STATION

SP	Headset Speaker Output
MIC	Headset Mic Input

*1 Remove jumper between "R OUT" H and "R SP" H terminal if an overhead speaker is used for incoming voice. External 8 Ohm, 5 Watt speaker connects to R Out "H" and "C" terminals. If User Station Speaker or Headset is used, leave jumper in place.

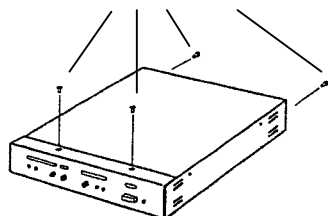


3 Adjustments

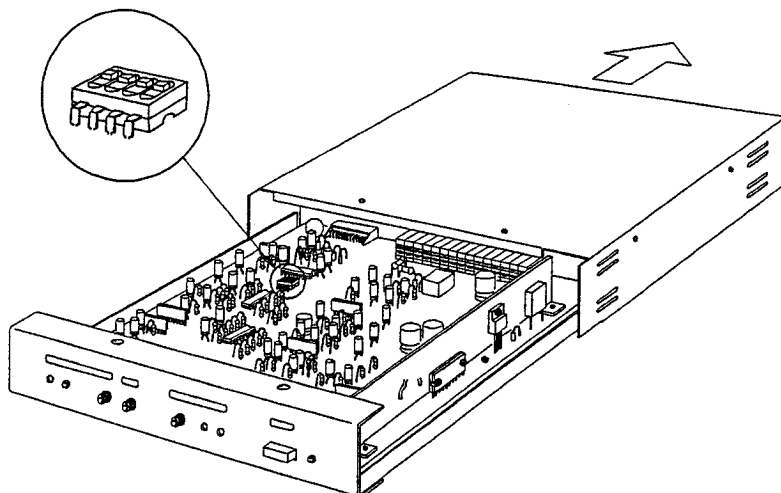
Talk Switch and Volume Switch Settings

Using the dip switches within the Control Unit, both the "TALK" and "Volume" switches on the User Station can be set to function in varying ways. Use the table below to determine the best settings for the application. Switches are located inside the Control Unit and are accessed by removing the four screws that attach the main cover (See Illustration below) and sliding off the cover.

Remove these screws
to access the Switches



Slide the cover back .
Switches are located here:



Talk Button Operation Settings

Switch			Function	Talk Switch	
Switch 1	Switch 2			On	Off
ON	ON		Transmit	Normal	Off
			Receive	Normal	Reduce
ON	OFF		Transmit	Normal	Off
			Receive	Normal	Normal
OFF	ON		Transmit	Normal	Normal
			Receive	Normal	Reduce
OFF	OFF		Transmit	Normal	Normal
			Receive	Normal	Normal

Volume Button Operation Settings

Switch			Function	Volume Switch	
Switch 3	Switch 4			On	Off
ON	ON		Transmit	Normal	50%
			Receive	Normal	50%
ON	OFF		Transmit	Normal	50%
			Receive	Normal	Normal
OFF	ON		Transmit	Normal	Normal
			Receive	Normal	50%
OFF	OFF		Transmit	Normal	Normal
			Receive	Normal	Normal

4 Specifications

SPECIFICATIONS:

Power Source: 24V DC, 500 mA. Use PS-2410A
Communication: VOX controlled at User Station
Hands free from mic tube.
Activation: By proximity Sensor or User Station
Wiring: User Station to Control Unit: Supplied cable with connector
Speaker Driver to Control Unit: 2 Conductor Shielded
Mic Tube to Control Unit: 2 Conductor Shielded
Proximity Sensor to Control Unit: 2 Conductor Shielded
Paging Speaker to Control Unit: 2 Conductor Shielded
Power Supply to Control Unit: 2 Conductor Shielded
Distance: User Station to Control Unit: 6' using supplied cable with connector
Speaker Driver to Control Unit: 15' using 22 AWG Mic Cable
Mic Tube to Control Unit: 15' using 22 AWG Mic Cable
Proximity Sensor to Control Unit:
Paging Speaker to Control Unit:
Power Supply to Control Unit:
Supplied Cable Length: 6' (User Station to Control Unit)
Paging Speaker Out: 2.5W, 8 Ohms
Headset Connection: 3.8mm jacks
Operating Temp: 14 ~ 140 Degrees F
Proximity Range: 4" ~ 5' (Adjustable)

WARRANTY

Aiphone warrants its products to be free from defects of material and workmanship under normal use and service for a period of one year after delivery to the ultimate user and will repair free of charge or replace at no charge, should it become defective upon which examination shall disclose to be defective and under warranty. Aiphone reserves unto itself the sole right to make the final decision whether there is a defect in materials and/or workmanship; and whether or not the product is within the warranty.

This warranty shall not apply to any Aiphone product that has been subjected to misuse, neglect, accident, or to use in violation of instructions furnished, nor extended to units which have been repaired or altered outside of the factory. This warranty covers bench repairs only, and any repairs must be made at the shop or place designated in writing by Aiphone.

Aiphone will not be responsible for any costs incurred involving on-site service calls.