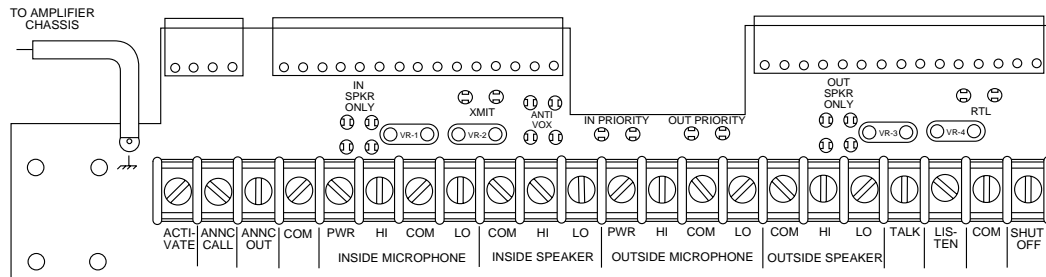


WIRING TERMINAL BOARD

IC-28 WTB



DESCRIPTION

The Model IC-28WTB is an easy programming and wiring option to the IC-28 Programmable Dual Channel Amplifier. The IC-28WTB is a plug-in printed circuit board that provides solder-in programming jumpers with complete screw terminal inputs and outputs for easy wiring to the IC-28 Amplifier.

The IC-28WTB also provides complete lightning protection with varistors mounted on the circuit board.

SPECIFICATIONS

Type: Programming wiring terminal board for the Model IC-28 dual channel amplifier.

Lightning Protection: Varistors installed across the output of each amplifier to chassis U ground connection.

Connectors: 1 each 4 circuit and 2 each 15 circuit Molex right angle mount P.C. board connectors that mate with the Molex KK156 connections on the IC-28 amplifier.

Programming Connections: Solder type, stak-on fork termination.

Input/Output Termination Strip: 22 position, .325 centers, with captive screws and SEMS for easy bare wire insertion.

PROGRAMMING

The programming of the Wiring Terminal Board is accomplished with a soldering iron and #22 gauge buss wire. The following explains the method of programming the IC-28WTB to your specifications.

IN SPKR ONLY



OUT SPKR ONLY



XMIT



ANTI VOX



IN PRIORITY



OUT PRIORITY



RTL



Inside Speaker Only straps. When these two straps are installed the Wiring Terminal Board programs the IC-28 Amplifier to have a speaker inside to both act as a speaker and a microphone. The speaker is connected to the HI-LO terminals of the Inside Speaker terminal screws. If these straps are omitted the WTB is programmed to have separate speaker and microphone inside.

Outside Speaker Only straps. This applies exactly the same as the Inside Speaker Only straps above.

Transmit strap. This strap is installed when both amplifiers are to be turned on at the same time, such as in the full duplex type system.

Anti-Vox straps. These two straps should be installed in all vox systems using a separate microphone and speaker inside.

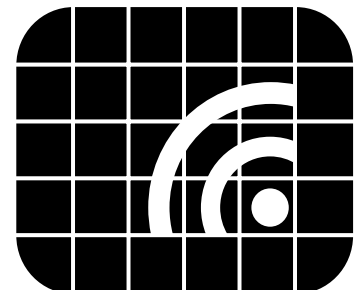
Inside Priority straps. This is the logic connection between amplifiers, when this strap is normally installed the the inside will have break-in priority over the outside.

Outside Priority. This is the reverse logic connection between amplifiers, when this strap is installed the outside will have break-in priority over the inside.

Return to listen. This strap will program the the inside station to automatically return to listen after T/L or Vox actions. If this strap is not used the Vox control on the A amplifier will have to be adjusted to the ON position.

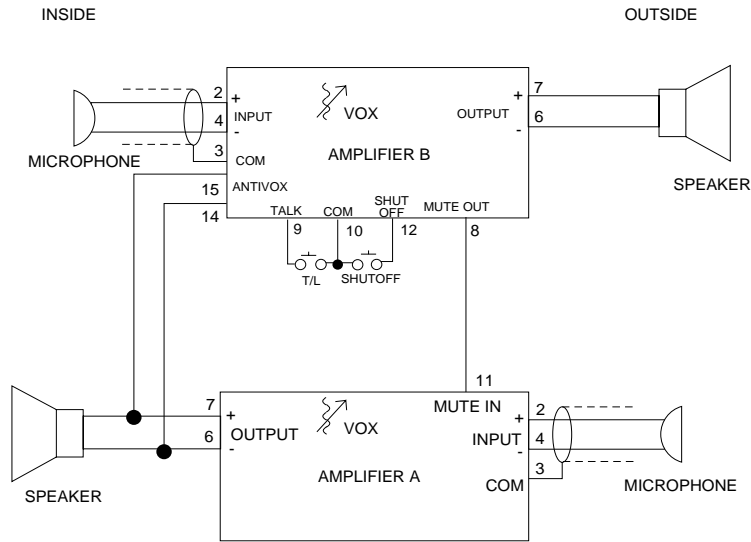
All of the logic control terminations are provided as indicated on the IC-28 amplifier with the exception of LISTEN which is the Mute Input to the B amplifier. When this terminal is held to common on a Vox System the Vox function is turned off leaving the system in the listen mode.

COMMUNICATIONS COMPANY inc.



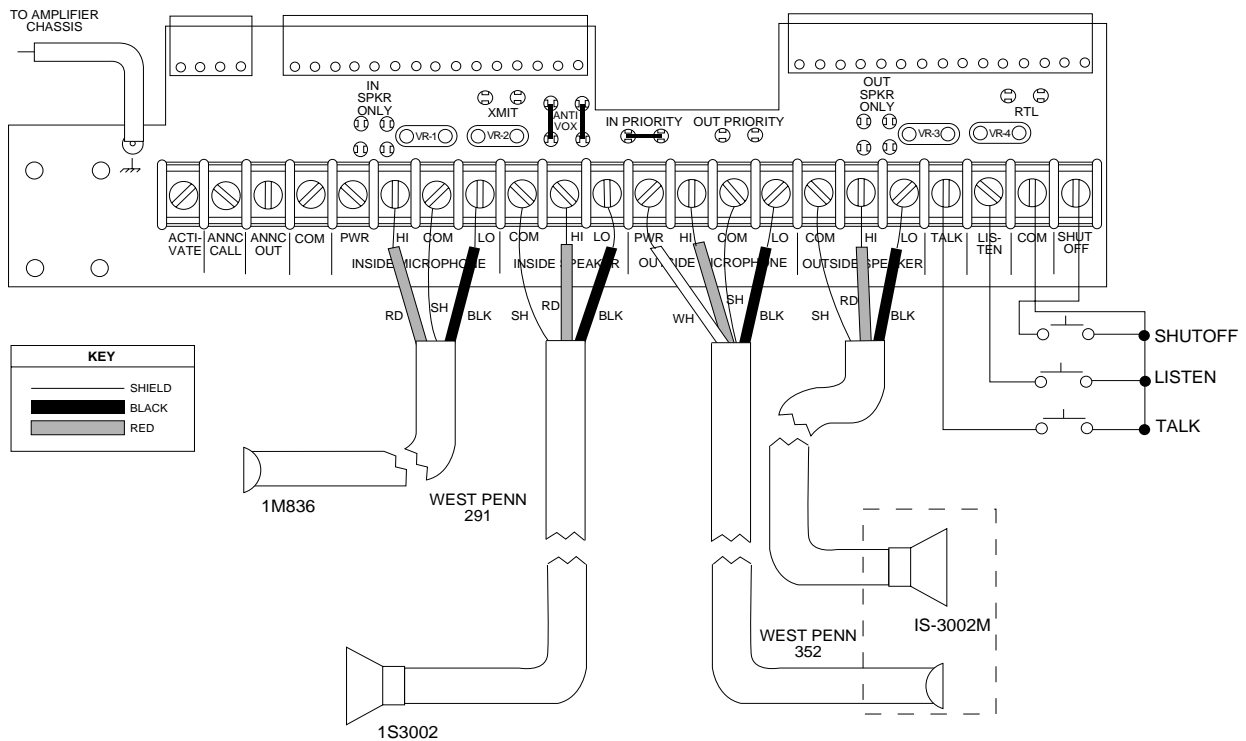
TYPICAL APPLICATIONS & HOOK-UP DIAGRAMS FOR THE IC-28 WIRING TERMINAL BOARD

The following applications and hook-up diagrams show the versatility the IC-28 and IC-28 WTB can provide for your intercommunications needs. It should be noted that any of the options seen on the hook-up diagrams can be applied to another hook-up.



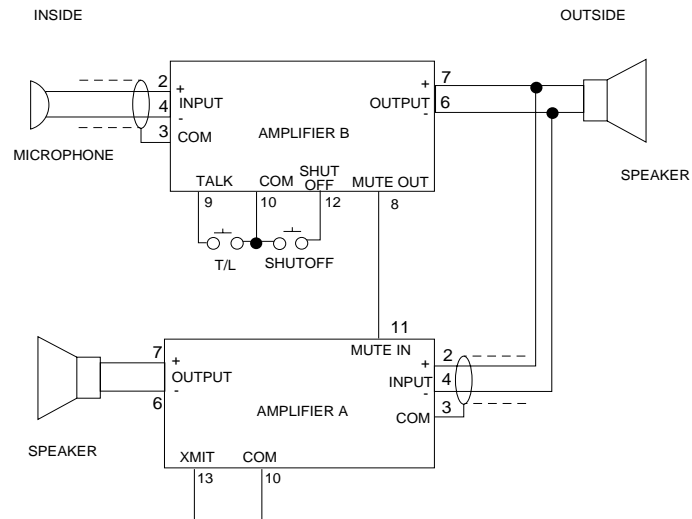
TYPE 1 /

Typical ticket window system using a microphone and speaker with anti-vox inside, microphone and speaker outside. Two-way vox with quieting when both sides are quiet. This system includes shutoff and forced talk and listen for complete control under any circumstance.



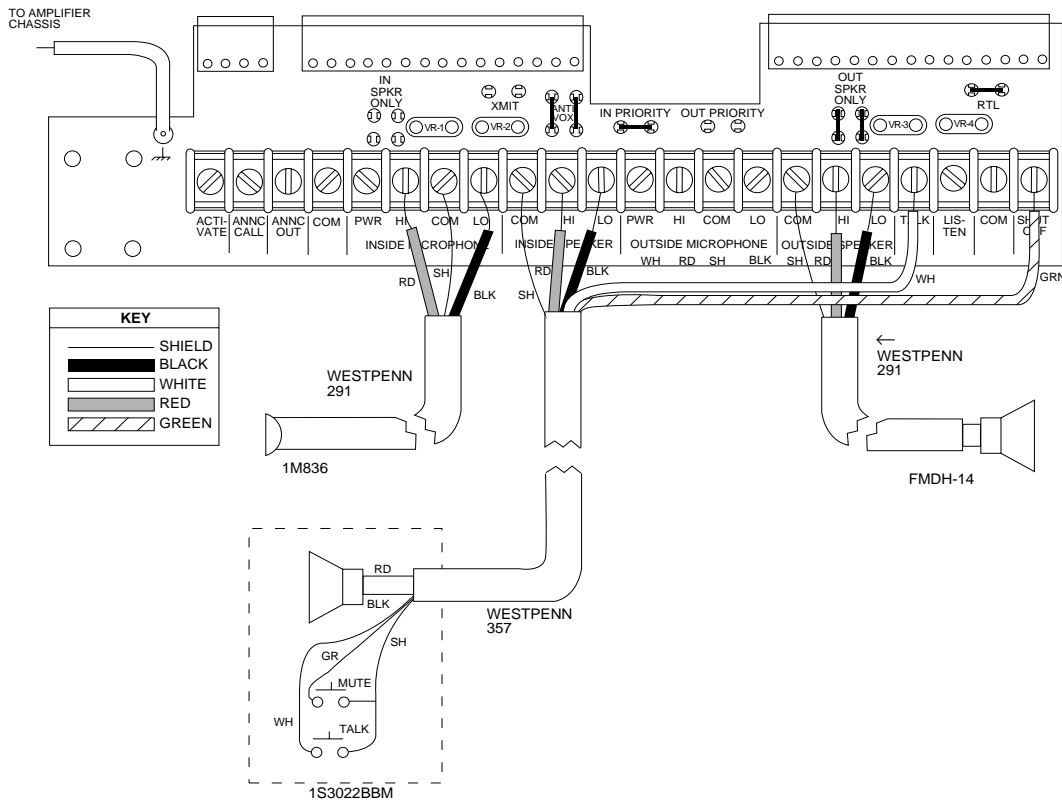
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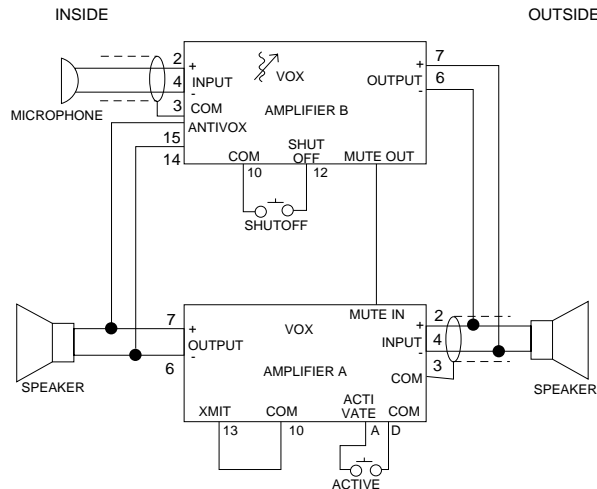
TYPE 1A /

Typical ticket window system using the IS3022BB and IM836 microphone inside and the FMDH-14 window speaker/microphone outside. The IS3022BB is used as the inside speaker for control of shutoff and force talk to the outside. The system is shown as vox control from the inside with return to listen.



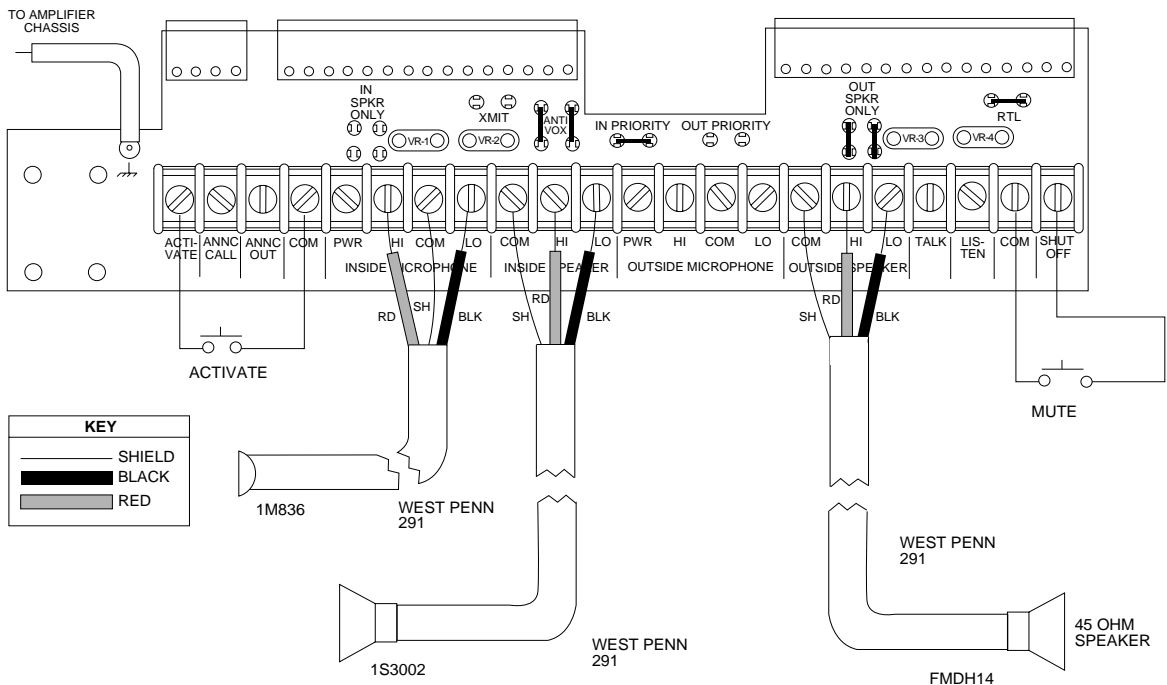
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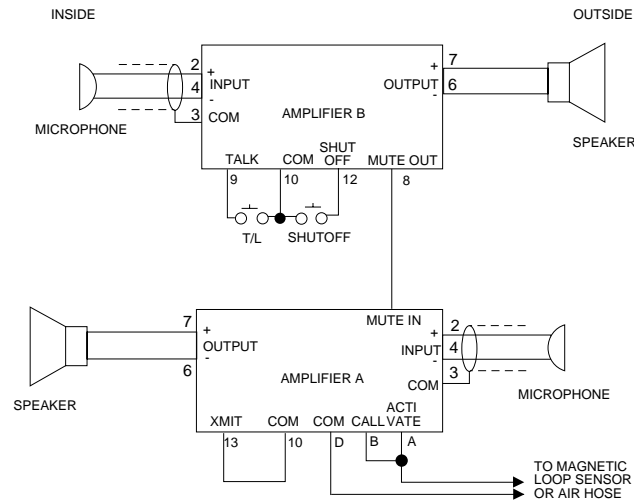
TYPE 2 /

This system is used frequently as a ticket window system where the FMDH-14 is used as a microphone and speaker to the outside. Using the FMDH-14 as a speaker limits the levels outside allowing a more personal conversation. This application is shown using a microphone and speaker inside with anti-vox, and a single speaker outside. The system will be vox controlled with inside priority that returns to listen. Shut-off and activate switches are also shown, but the pushbutton control shown in type 1 could also be used.



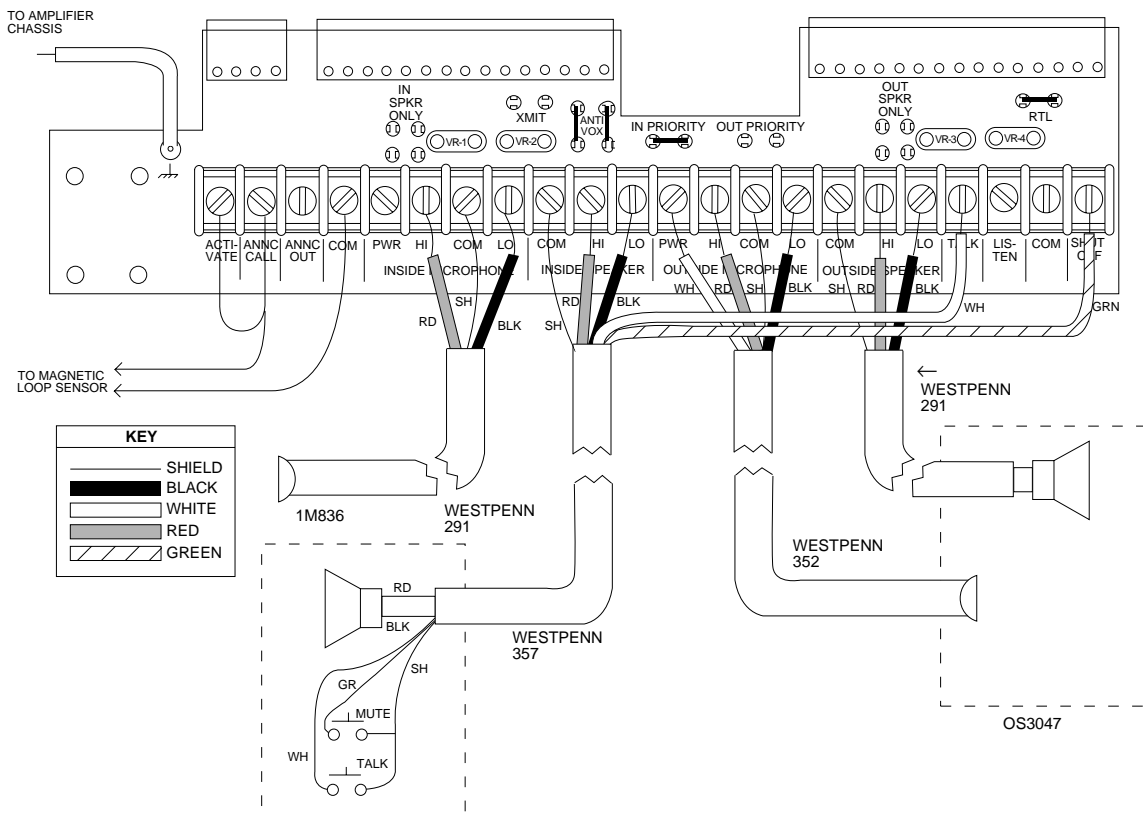
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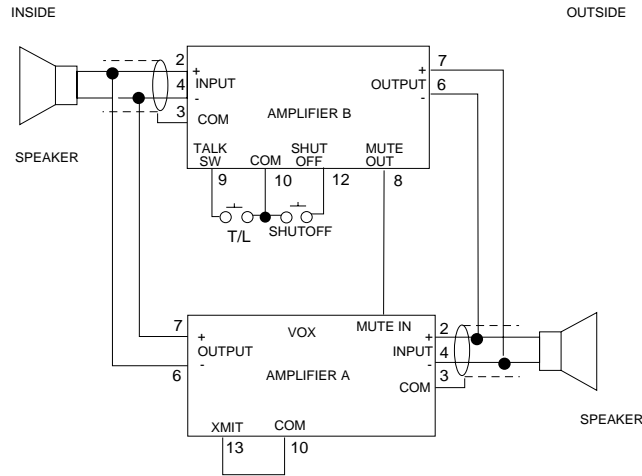
TYPE 3 /

Typical fast food system using a microphone and speaker both inside and outside for optimum quality. The inside station is shown using the IS-3022BBM that provides shutoff and talk/listen pushbutton control. The magnetic loop sensor is shown wired to the system so that the system will be turned on in the listen mode when the annunciator is activated. Be sure both vox threshold controls are turned to full counterclockwise position.



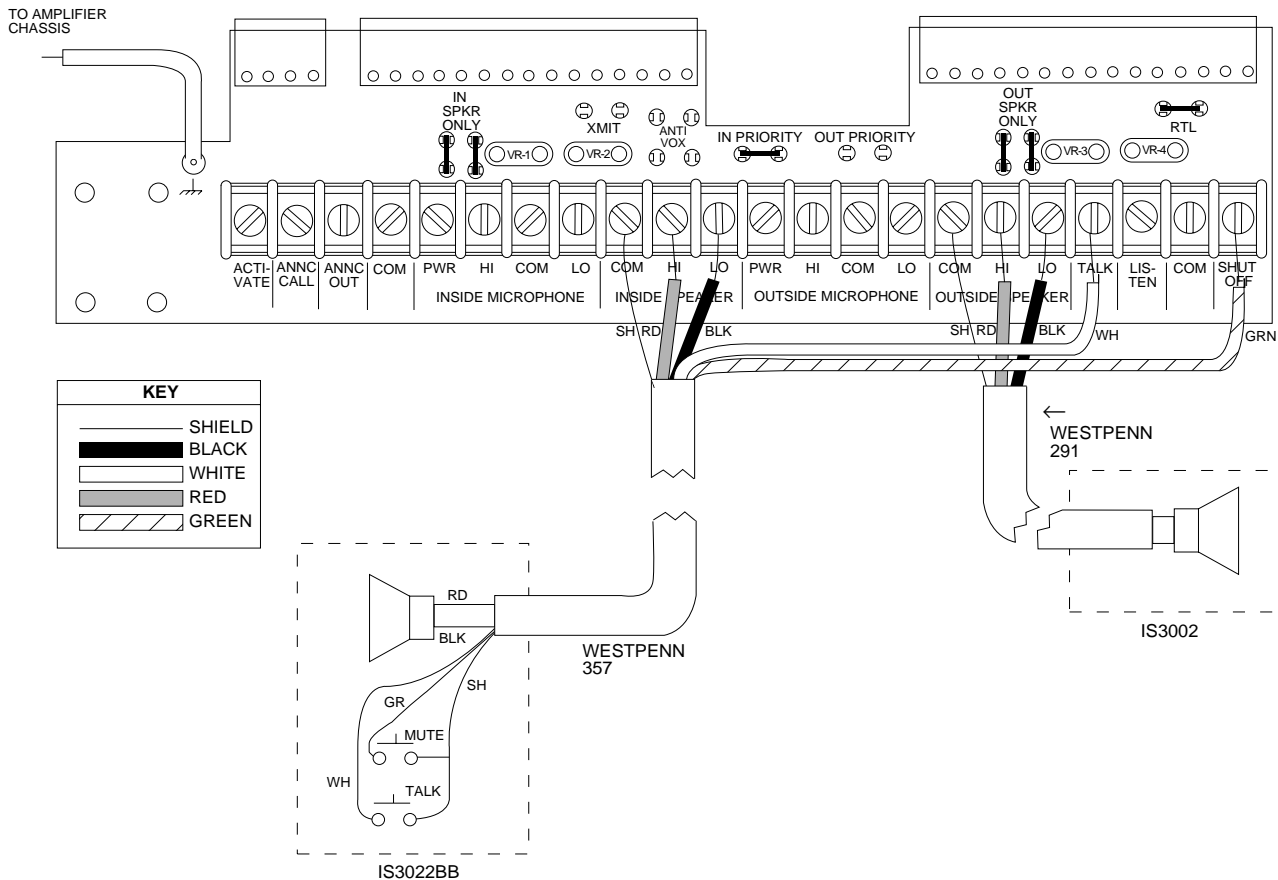
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TYPE 4 /

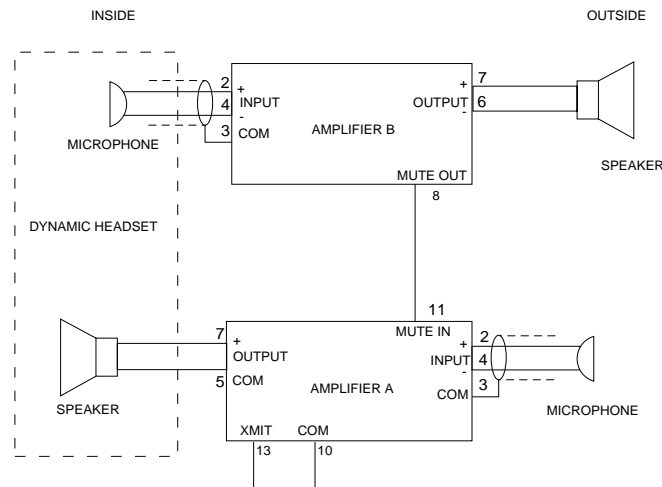
This system shows the simple speaker to speaker application with talk/listen and shutoff, the inside speaker will return to listen. Be sure both vox threshold controls are turned to full counterclockwise position.



KEY	
	SHIELD
	BLACK
	WHITE
	RED
	GREEN

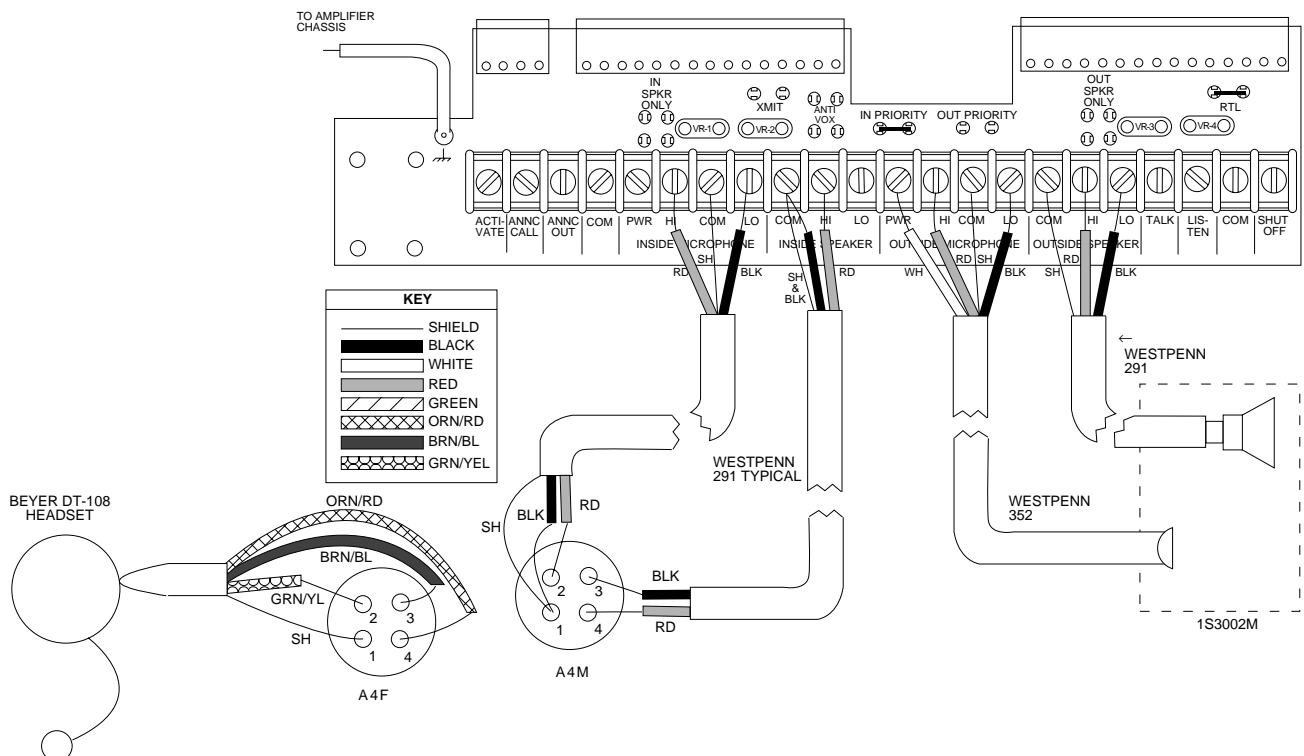
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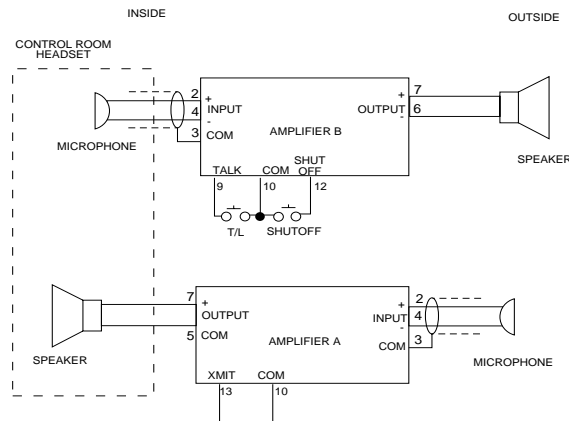
TYPE 5 /

Typical headset system using a headset with a 200 ohm microphone and a 400 ohm receiver to a speaker and microphone station. The outside station is shown using the IS-3002M that provides a speaker and microphone only. The system is shown as vox controlled, adjust the B amplifier's vox control for proper voice switching.



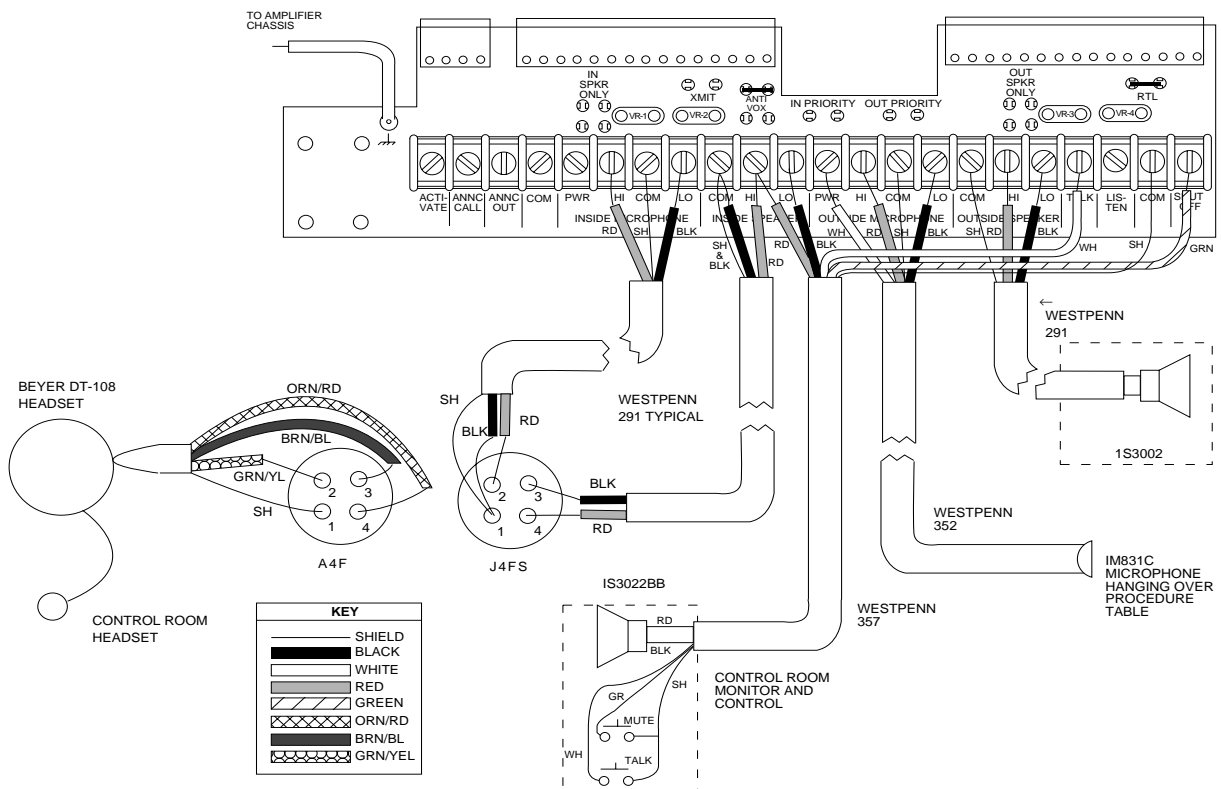
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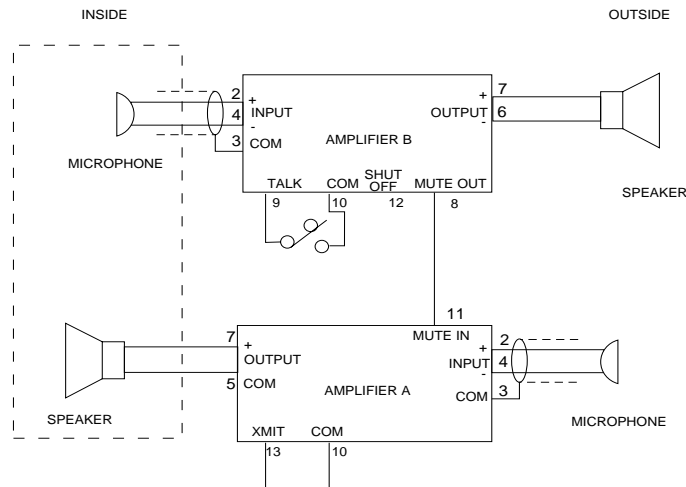
TYPE 6 / CATH LAB, FULL DUPLEX

Typical headset system using a headset with a 200 ohm microphone and a 400 ohm receiver to a speaker and microphone station. The IS3022BB is shown as a control plate with a speaker for monitoring only in the control room. The outside station is shown using the IS-3002 that provides a speaker and a IM831C microphone hanging over a procedure table. The system is shown as full duplex; adjust levels for best operation.



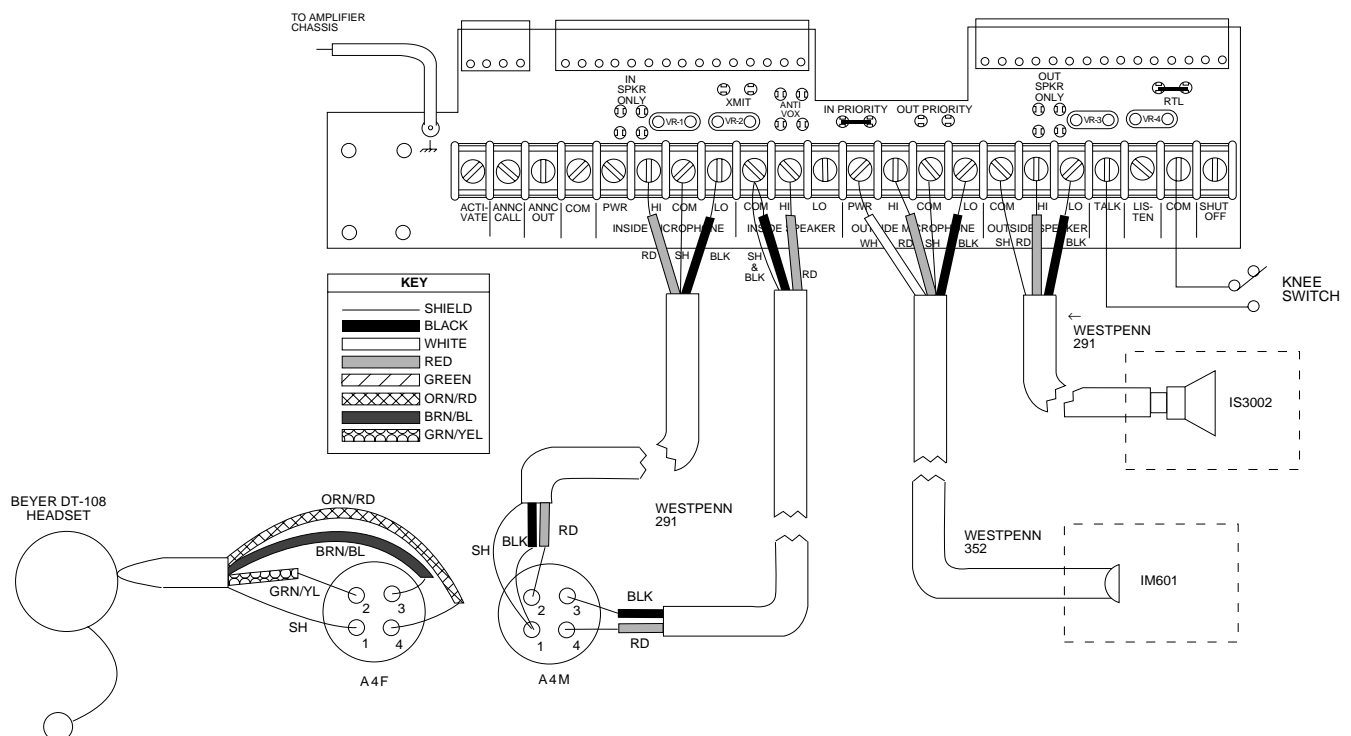
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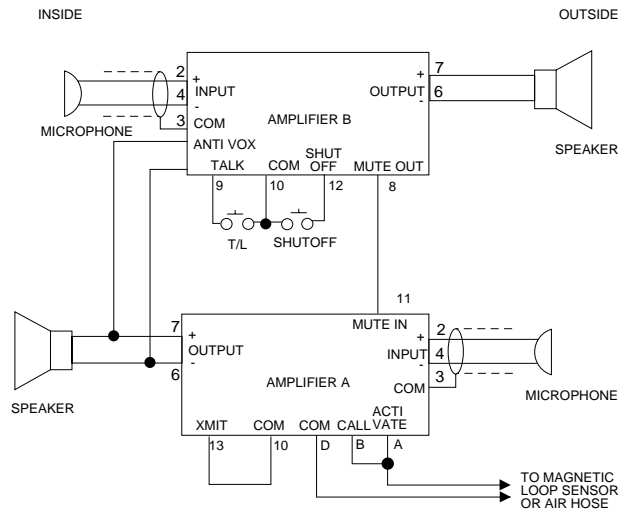


TYPE 6A / CATH LAB, SIMPLEX

Typical headset system using a headset with 200 ohm microphone and a 400 ohm receiver to a speaker and microphone station. The system is shown as simplex with a knee or foot switch used to control the talk path. The outside station is shown using the IS3002 as the speaker and the IM601 as the microphone. The IS3002M could be used for the outside station or the IM3002 / IM831C combination as shown in Type 6.



TYPICAL APPLICATIONS & HOOK-UP DIAGRAMS FOR THE IC-28 WIRING TERMINAL BOARD



TYPE 7 /

Typical headset or speaker microphone system shown with switching between the two. The system is shown using a headset with a 200 ohm microphone and 400 ohm receiver to a speaker and microphone station. The outside station is shown using a IS-3002 speaker and IM601 microphone, but the IS3002M could be used also. The system is shown vox controlled for the headset or the microphone and speaker station. The IM3022BB speaker station controls shutoff and forced talk for additional control of the system.

