Wherever there's a show...

Production Intercom

Operating Instructions

AS-100
Announcer's Station

Description: The AS-100 is intended as an all-purpose announcer's station which can control and/or access an IFB circuit and an intercom circuit while also providing broadcast quality output, all from one professional quality headset. Where an existing IFB system or intercom system exists and has its own power supply, the AS-100 will be powered as soon as it is connected to either. If neither exists, the AS-100 can be powered from its own external AC adapter. It will then power up to 10 intercom or IFB packs in any combination, connected directly to it. The production version of the AS-100 is compatible with Production Intercom®, Clear-Com®, and other similar 200Ω unbalanced intercom and IFB systems. A modified version can be custom assembled, at moderate additional cost, to match RTS® on a single channel. The AS-100 is NOT compatible with Telex Audiocom® unless the Telex Audiocom® is operated in its Clear-Com® (i.e: unbalanced) mode (if available).

Set-up

Rear Panel:

Caution! Do **NOT** connect the supplied AC adapter to the 24VDC jack if power is already being supplied by an intercom or IFB system. IFB and intercom XLRs provide for running signal into or out of the AS-100. The studio IFB feed can be plugged into one of the IFB jacks, with local IFB talent receivers connected to the other. The same is true for the intercom jacks. The broadcast quality output generated by the microphone of the headset is provided by the 3-pin male XLR jack marked "MIC OUT". This output is transformer balanced, 600Ω, and may be either at line or mic level determined by relocating an internal Molex® plug. The output level is -10dB nominally but may be adjusted from 0dB to -50dB by means of internal jumpers and plugs. (See section on output level changing below.) The termination circuit switch is provided so that when the AS-100 functions as the "master" for an intercom circuit, the proper termination circuit will be in place. When an existing intercom system with its own master station or power supply is connected to the AS-100, the termination circuit must be switched out since termination is already being provided by the intercom system.

Front Panel:

The only connection to the front panel is the headset. The jacks are the conventional professional types, 3-pin female XLR for a balanced microphone and tip/ring/sleeve ¼" phone plug for the right and left earspeakers. The headset microphone may be either dynamic or condenser, for which phantom power is supplied. **Caution:** Always reduce the volume level, both left and right, before putting on a headset.

Functions

The first button (**Send Audio**) on the right side of the panel mutes the microphone feed to the AS-100's output. It glows **RED** when active. An internal jumper allows the technician to choose between momentary and latching operation. (PUSH/RELEASE OR PUSH/PUSH). The Left volume control regulates the level of the IFB/program feed heard in the left ear. The minimum level is NOT completely off but is set by internal jumpers at 5, 12 or 28% of full volume. The Right volume control regulates the level of the intercom feed heard in the right ear. This control operates in the conventional manner and CAN be turned all the way off.

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Printed in USA

Orig. 05/07

The next button (**Talk**) connects the headset microphone to the intercom system and automatically mutes the signal to the AS-100's broadcast output. It is always momentary. It glows **GREEN** when activated. The **Intercom Signal** button lights the signal lights on intercom stations connected to the AS-100. The **RED** LED above it lights when the button is pressed or whenever any intercom beltpack connected to the AS-100 has its signal button pressed.

Internal Adjustments

Output Level Changing:
The AS-100 offers a range of output levels. As shipped from the factory the output level is -10dB.
To make changes, remove the top cover. The following chart shows the jumper positions and output socket choices to achieve various output levels.

	0dB	-10dB	-20dB	-30dB	-40dB	-50dB
Output from	SKT2	SKT2	SKT2	SKT1	SKT1	SKT1
J5 Select	Open	2 - 3	1 - 2	Open	2 - 3	1 - 2

Adjusting the microphone gain and removing phantom power:

	J3	J4
Dynamic Mic -50dB	1 - 2	1 - 2
Condenser Mic -40dB	2 - 3	1 - 2
Condenser Mic -30dB	2 - 3	2 - 3

To disable phantom power, remove the plug with the jumper from SKT6.

Changing the IFB input from unbalanced to balanced: The selection is made at J14. Choices are marked.

Changing the function of the SEND AUDIO button:
Move the jumper in J8 from latching (Lat) to momentary (Mom) or vice versa.

Changing the minimum headphone level on the IFB circuit: The jumpers for accomplishing this are on the small board, second from the left when facing the front of the unit. The jumper is near the front, right side of the board and is marked 5%, 12% and 28%. Select the percentage of the normal level that you wish to be the minimum that will be heard on the IFB side of the headset.

Changing the ground preference: The ground preference is changed from circuit to chassis (or vice-versa) by moving the jumper on J13. The rearward position is circuit ground.

Specifications: (Subject to change without notice.)

Microphone preamp: Max.gain: 50 dB; Gain adjustment: 30dB in 10dB increments; Input impedance 1KΩ.
Headphone amplifier: Max.gain: ??? ; Frequency response: ??? Hz to ??? Hz ± 3dB; Impedance: ? to ? Ω; Level: ?W into ?Ω.
Output: