Bexel/ASG Products

Falcon

Sportscaster/Announcer Unit

1 *If the microphone path is passive, why does the Falcon need power?*

Power is required for the ear-piece and talk-back amplifier circuitry.

2 *How does the Falcon get power for its active circuitry?*

Power is provided by the supporting IFB or Intercom power supply through the IFB connection.

3 *Can the Falcon accept external power from a separate DC power source or does it have to be from the IFB or intercom power supply?*

For now, the Falcon can only be powered by the IFB connection from an IFB or Intercom power source.

Pin-1 is Ground/Common
Pin-2 is Left Ear (Interrupt) & 25-30V DC
Pin-3 is Right Ear (Non-Interrupt)

4 *Why do the* COUGH *and Talk-back switches cause a click-noise sometimes, but other times they are silent?*

The passive nature of the microphone path causes greater sensitivity to outside factors. The click is caused by a capacitor inside the Falcon which needs to be discharged when the switch is depressed. The click-noise is eliminated by connecting a microphone to the input connector and waiting a few minutes. The resistive load of the microphone serves as a discharge path for the capacitor. Leave the microphone plugged in while testing for switch-contact noise.

Also, the mute function is an instant on/off state change. If any form of audio, particularly test-tone, is routed through the microphone signal path of the Falcon, a click-noise is inevitable since the switch is not always pressed at the zero-crossing of the program source. If no audio is present and the units have been on for a few minutes with a microphone connected, there should be no perceptible noise.

5 *I want to use my own custom booth-harness like I do with other announcer units. Because of the D-SUB-15 connector/cable assembly I can't. Is an XLR version available?*

Yes, an XLR version is available. The D-SUB-15 equipped Falcon is the Low-Profile version for situations where space is at a premium. An XLR equipped rear-connector assembly is available which provides standard 3-pin XLR connectors for the audio circuits.

6 *I see the thumb screws on the rear panel…why would I need to get inside the unit?*

The D-SUB-15 connector assembly is able to change to a left or right hand cable exit orientation. This is the same reason that a Power indicator is on both the top and bottom of the assembly.

Also inside the chassis is a jumper that defeats the Talk-Back Limiter function. Remove the jumper and the limiter is bypassed.

Note The jumper is not a commonly found zero-ohm shut but rather a 10k Ω resistor which sets a moderate limiting ratio. If a zero-ohm shunt is used, the limiting will be very aggressive and the Talk-back output level will drop by approximately 15dbu.

7 *Can the Talk-back outputs of several units be connected using"daisy-chain" wiring or "Y" cables?*

Yes, the Talk-back outputs are transformer isolated, balanced line level so a simple "Mult-Box" or "Y" cable solution will work.