

PROTE	CH [®]
MODELS COVERED	
5053B	
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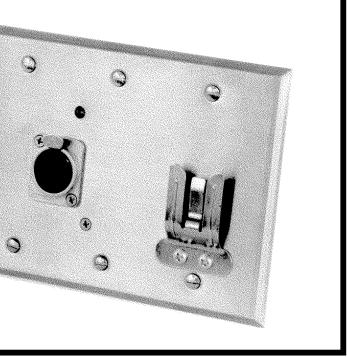
The Model 5053B Remote Microphone Station is designed The XLR audio input connects to the low impedance for use in engineered sound systems. The 5053B allows microphone input transformer. The Model 5053B has the audio to be amplified at the source, and prevents the provision to allow strapping of the center-tap on the serious degradation of signal-to-noise ratios normally transformer primary, to the 24VDC, to provide phantom found when microphone level signals are caried over long power to microphones requiring that feature. The gain of distances. Typical installations include airport terminals, the opamp section is adjustable with a small screwdriver, convention centers, and sports arenas. thru the small hole located in the upper left hand of the The Model 5053B incorporates a number of features that front panel. The unit has been shipped from the factory allow it to perform in a variety of venues. The unit has a with the gain adjusted to 45dB, into a 600 ohm load. The transformer balanced input, a transformer balanced outminimum recommended gain setting is 35dB.

put, adjustable gain, phantom power capability, and a busy buss indicator.

The input section starts with the panel mounted 5 pin female XLR Connector. The connector allows wiring of any low impedance microphone with a push-to-talk switch. Pressing the push-to-talk switch activates an internal relay, which connects the output transformer to the output wiring. By disconnecting the output from the load, many units can be wired to a single receiving device, without the problem of loading the line. The XLR connector can be shipped from the factory wired with pin #I = shield, pin #2= Audio Hi, pin #3= Audio Lo, and pins 4 & 5= audio For additional information, contact: output switch closure.

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REMOTE MICROPHONE STATION INSTALLATION & OPERATION MANUAL



The output section consists of a high quality audio output transformer, followed by a double-pole, double-throw relay. Pressing the push-to-talk switch activates the relay, and connects the output transformer to the audio output wiring. The only other wiring required is for the 24VDC power.

One additional conductor may be used to connect the optional busy buss. When the push-to-talk switch is activated, the front panel busy indicator will illuminate. By wiring the buss pins together, all busy indicators wired configured to accept prewired microphones. The unit is together will illuminate when any push to talk switch is activated.

APPLICATIONS ASSISTANCE

INSTALLATION

The Model 5053B Remote Microphone Station is designed to be mounted in a standard triple gang electrical box at least two (2) inches deep. Wiring to the box must include;

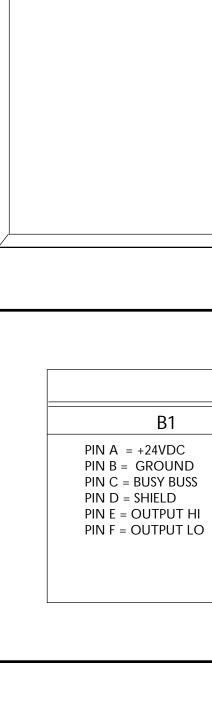
1 - A two-conductor, shielded cable, 24AWG or heavier

- 2 A 24 volt DC power connection, with the low side of the power supply connection providing a good EARTH ground. The minimum recommended gauge is 22AWG.
- 3 (Optional) A single conductor, 24AWG minimum, for the busy buss

- Step 1- Mount the microphone mounting clip on the front panel
- Step 1A- (Optional) Strap unit for phantom power (See Wiring Diagram On Facing Page).
- Step 2- Wire one of the microphones to be used, and test several Model 5053B units for correct operation with the test microphone. It is recommended that this step be done in the shop, before mounting the units in the field.
- Step 3- Wire the audio output and 24VDC to one unit (See Wiring Diagram On Facing Page), mount the unit in the electrical box, plug-in microphone, and test for audio outpt at the receiving device.

ALIGNMENT

The alignment of the Model 5053B is a one step procedure. The gain of the unit is factory adjusted for 45dB. This will usually achieve proper level at the receiving device. It is not recommended that the gain of the 5053B be lowered, since this will result in a lower signal-to-noise ratio. If additional gain is needed, simply turn the gain trimpot, accessible thru the front panel, until the desired output level is achieved.

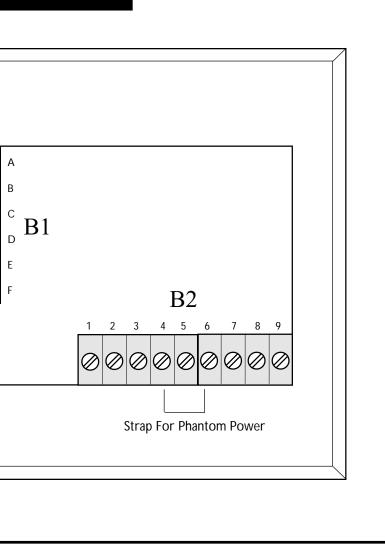


REAR VIEW

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WIRING TABLE		
	B2	
	 PIN 1 Switch Closure PIN 2 Switch Closure GND PIN 3 N/A PIN 4 +24VDC PIN 5 N/A PIN 6 Phantom Power Connection PIN 7 GND PIN 8 Audio Input LO PIN 9 Audio Input HI 	