

# REMOTE LEVEL CONTROLS

## ARCHITECT'S & ENGINEER'S SPECIFICATION

The remote level control shall be constructed as a plug-in printed circuit board module. It shall be designed to allow up to 10 modules to fit in a rack mount card frame, requiring no more than 3.5 inches of vertical rack space. The remote level control shall be unpluggable from the front of the card frame, without the need to disconnect wires attached to the rear connector.

The remote level control shall have [balanced bridging transformer isolated input(s), or transformer isolated microphone input(s)]. The gain of each input channel shall be individually adjustable, and shall be independent of the VCA element control setting.

Each line output shall be transformer isolated, and capable

of delivering +18dBm.

The remote level control shall be capable of being controlled by a remote potentiometer, or a "piggyback" preset board. The preset board shall be capable of providing 3 levels for each input channel, activated by ground closure.

The remote level control shall have provision for a link input and/or link output. The remote level control shall have provision for PRE/POST VCA sends on each input.

The mixed output of the remote level control shall be configurable, independent of other outputs, for PRE/POST VCA operation.

The Remote Level Control shall be Protech Audio Corp. Model (891, 892, 893, 894, 895, 896, 897, 898)

## SPECIFICATIONS, REMOTE LEVEL CONTROLS

### INPUT SECTION

Input Impedance.....	Line Input = 10K Ohms, Nominal Mic Input = 150 Ohms, Nominal
Maximum Input Level.....	Line Input = +18dBv Mic Input = -5dBv
Input Gain.....	Line Input = 0-15dB, Adjustable Mic Input = 35-55dB, Adjustable

### VCA SECTION

Attenuation Range.....	0-100dB
Control Pot Requirement.....	10K Ohms, Minimum

### OUTPUT SECTION(S)

Maximum Output Level.....	+18dBv
Frequency Response.....	30Hz - 20KHZ, ±0.5dB
Distortion.....	0.25% Maximum @ +14dBm Out.
Noise.....	-79dB Below +4dBm Out, And 10dB of Gain.

### CONTROLS

Gain Control.....	0-15dB Line, 35-55dB Mic, Each Input.
Attenuation Limit Range.....	Factory Adjusted
PRE/POST VCA Jumpers.....	One Set Per Output.
Presets.....	With Preset Board, Ground Closure Activated.
Distortion Null.....	Factory Adjusted

### OPERATING

Operating Temperature.....	0-70 Degrees C.
Power Requirement.....	80ma @ ±15-18VDC
Dimensions.....	2.5"H x 8"D x 1.1"W
Shipping Weight.....	Approx. 2 Lbs.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## ACCESSORIES

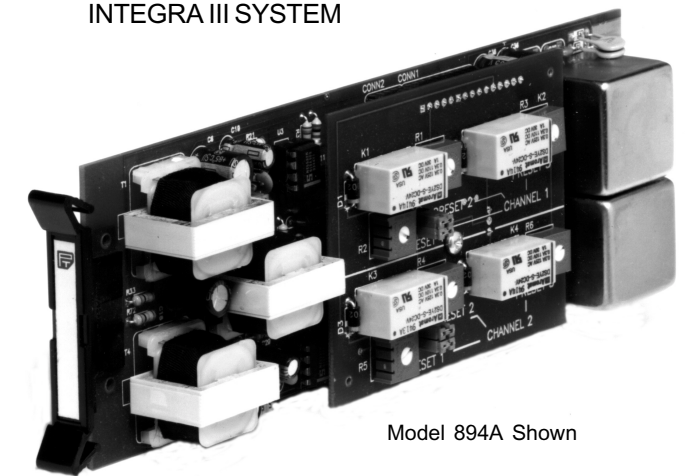
CARD FRAME PACKAGE.....Model 858B Includes Card Frame, Backplane, and Plug-In Power Supply Card. Allows mounting of up to 9 audio cards.	CARD FRAME PACKAGE.....Model 857B Includes Card Frame and Backplane Assembly. For use with external power supply Model 66708. Allows mounting of up to 10 audio cards.
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Indian Lake, New York 12842  
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Web - [www.protechaudio.com](http://www.protechaudio.com)

**AUTHORIZED DEALER**

- MICROPHONE OR LINE LEVEL INPUTS
- SINGLE OR DUAL CHANNEL, AND MIXING CAPABILITY.
- REMOTE POTENTIOMETER OR SWITCH CONTROLLED PRESETS.
- PRE AND POST VCA OUTPUTS.
- LINKABLE FOR LARGER SYSTEMS.
- TRANSFORMER ISOLATED IN & OUT.

INTEGRA III SYSTEM



Model 894A Shown

[www.protechaudio.com](http://www.protechaudio.com)

The remote control cards are designed to provide remote control of audio levels in professional, fixed installations. Each card can be used with either a remote potentiometer, or a "Preset Board" option. Typical applications allow level control, combining, and switching of audio signals, from remote locations. There are eight different versions;

- Model 891 = 2 X 1 Mixer, Line Inputs.
- Model 892 = Single Channel Line Amp.
- Model 893 = Dual Channel Line Amp.
- Model 894 = Dual Channel Line Amp, Plus Summed Output.
- Model 895 = 2 X 1 Mixer, Mic Inputs.
- Model 896 = Single Channel Mic Preamp.
- Model 897 = Dual Channel Mic Preamp.
- Model 898 = Dual Channel Mic Preamp, Plus Summed Output.

On the single and dual channel units, each input has two outputs. There is a direct, transformer isolated output, and a link output for combining signals. The link output is designed to be fed to one of the remote level controls with mixed output. The link feature allows

larger remotely controlled mixers to be created. Each of the two outputs can be configured independently, to be either PRE or POST VCA. This allows one output to be level controlled while the other output level is constant (for recording, etc.). Or, both may be level controlled. On the two versions with mixed output, both have a mixed output and a link output for each input. Again, each output can be PRE or POST VCA. The dual channel with mixed output, has three outputs for each input, Link Out, Direct Channel Out, and Mixed Out. The additional discrete outputs can also be configured for PRE or POST VCA sends. A piggyback "Preset Board" is available for all four models. The preset board allows for 3 preset levels on each input channel. Each preset level is user adjustable. A dry switch closure to ground controls the preset circuits. The switch closures may be controlled by any of the computer control systems now on the market. By adding the suffix "A" to the original model number, the units are shipped with the preset board already mounted.

REMOTE LEVEL CONTROLS

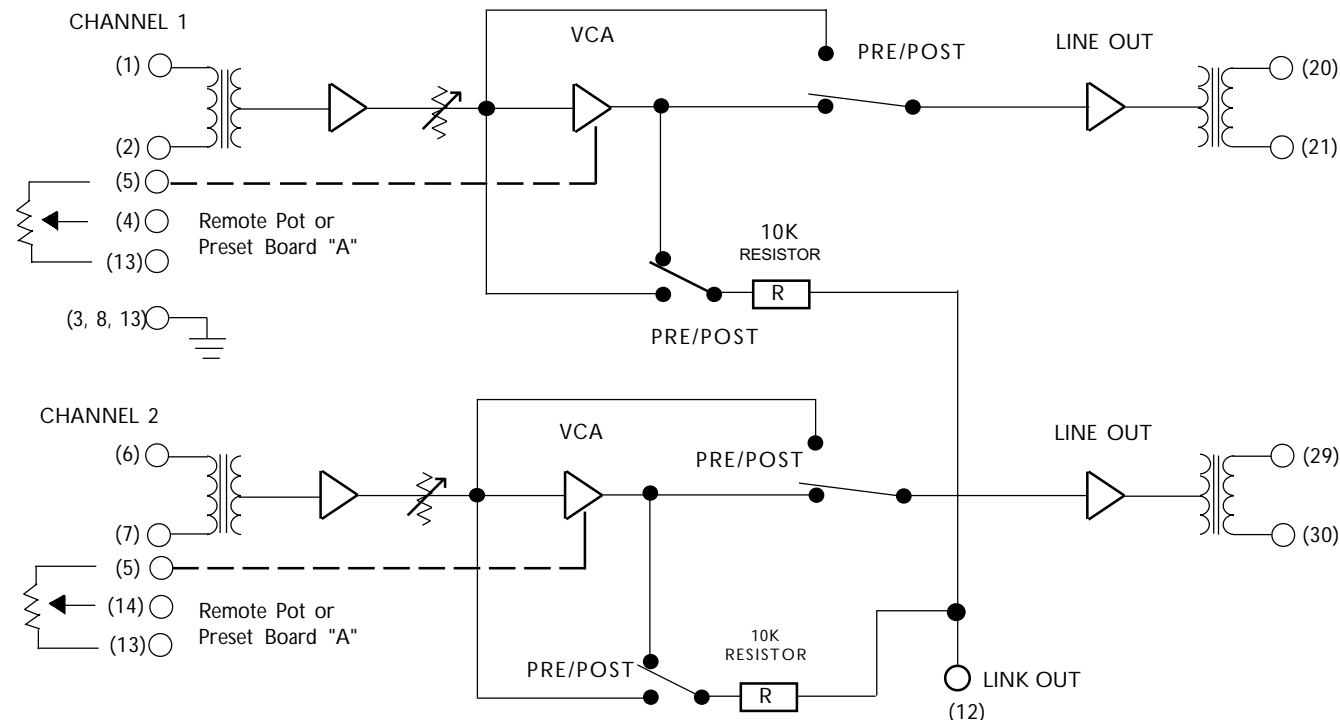
**PROTECH**®

Engineering Data

1/03

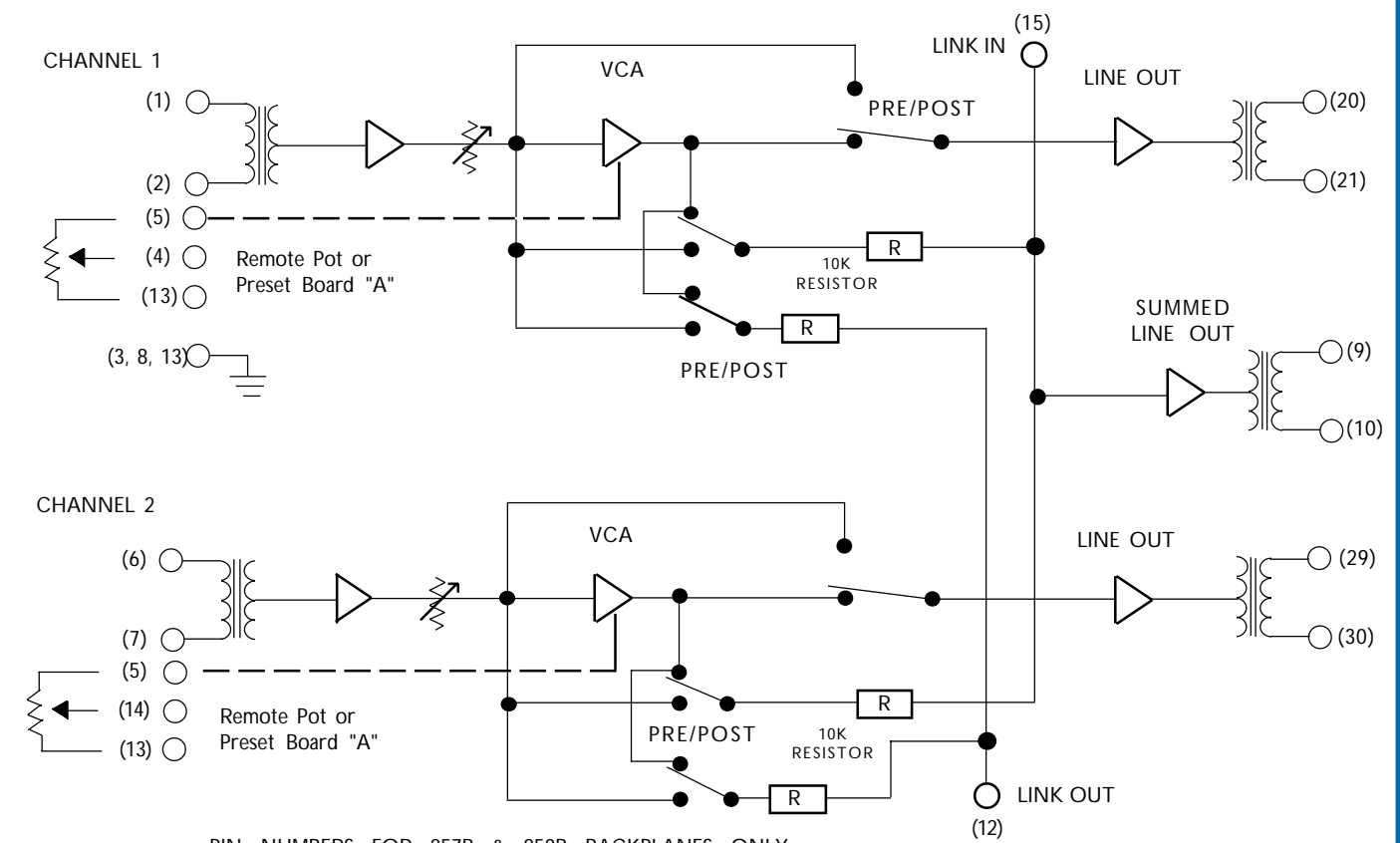
Single Channel Line Amp = Model 892  
 Dual Channel Line Amp = Model 893  
 Single Channel Mic Preamp = Model 896  
 Dual Channel Mic Preamp = Model 897

Used As Standalone, or, to Add inputs To Mixer.



PIN NUMBERS FOR 857B & 858B BACKPLANES ONLY.

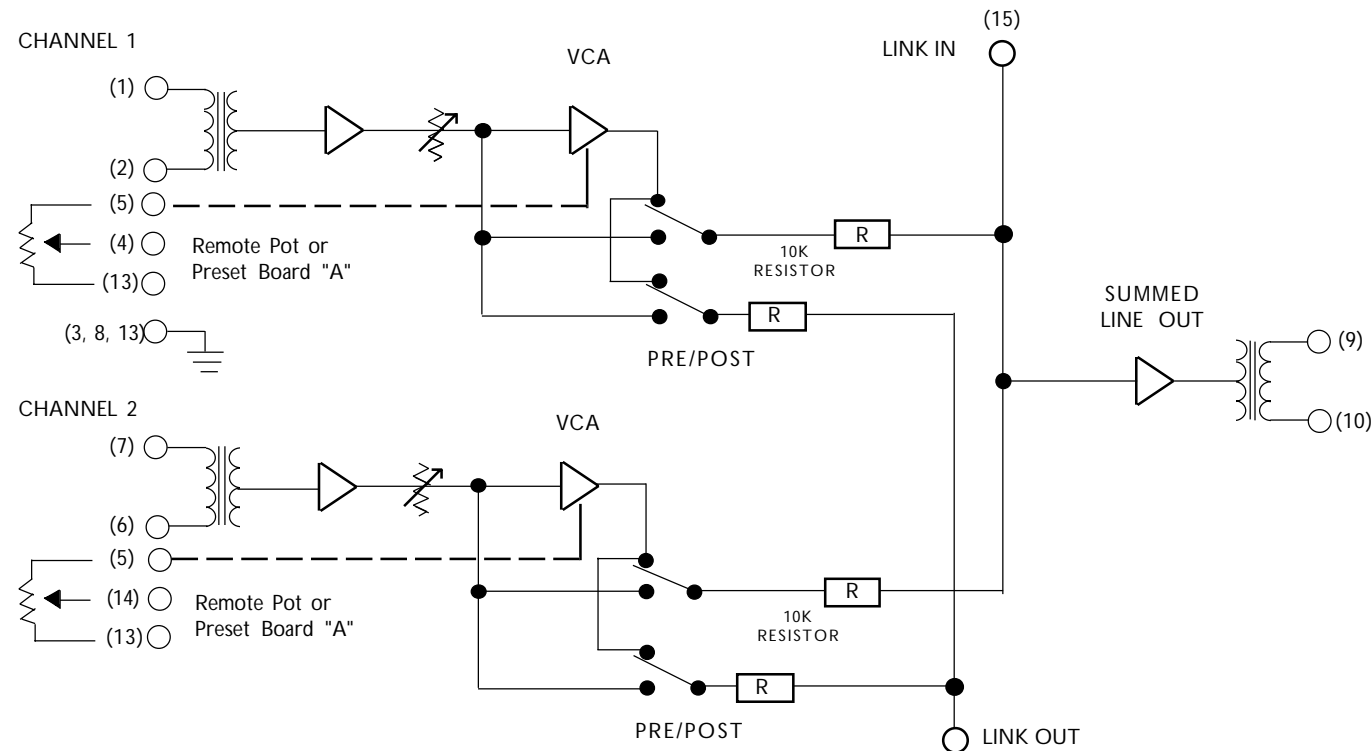
Dual Channel Line Amp, Plus Summed Output = Model 894  
 Dual Channel Mic Preamp, Plus Summed Output = Model 898



PIN NUMBERS FOR 857B & 858B BACKPLANES ONLY.

2 X 1 Mixer, Line Inputs = Model 891  
 2 X 1 Mixer, Mic Inputs = Model 895

Used As Standalone, or, With Other Model 891 - 898 Units



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"PRESET BOARD" piggybacks to all eight models. Allows activation of preset levels by remote ground closure  
 Add Suffix "A" to model number (891A, etc) to order.

