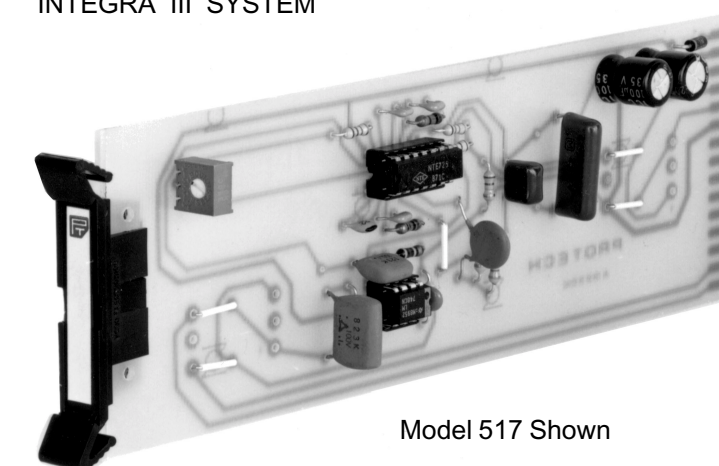


INTEGRA III SYSTEM

MODELS COVERED

517B

Model 517 Shown

www.protechaudio.com

The Model 517B Notch Filter Card is designed for use in professional audio applications, which require constant, automatic supervision of audio equipment and circuits.

The Model 517B Notch Filter is used in conjunction with the Model 562B 25Hz Oscillator card and the Model 685 Tone Supervisor card.

The Model 517B Notch Filter card is used to remove any 25Hz content from program or page material. The program material is fed thru the notch filter card. The notch filter allows all of the program material to pass thru, without distortion, except the 25Hz content. The 25Hz content is attenuated 50dB. This insures that no out-of-phase 25Hz audio can cause false triggering at the Model 685 Tone Supervisor card.

The Model 685 Tone Supervisor card is designed to detect the presence of a 25Hz signal in a complex audio program. If the 25Hz tone should stop, or fall below a certain level, the detector card will deactivate a relay, which is wired to an alarm device.

The Model 562B provides a constant level 25 Hz signal at +4dBm. The frequency and level are fixed via circuit design, in order to allow the Model 562B to serve as both a signal source, and a reference level. Typical applications are multi-zone public address systems, intercoms, paging systems, training systems, and monitoring systems.

The actual application is found in buildings such as airports, factories, courthouses, casinos, convention centers, libraries, military facilities, race-tracks, and corporate boardrooms.

The INTERGRA III card frame system also features mixers, power amplifiers, remote level controls, distribution amplifiers, and switching cards, to facilitate complete system design. Application notes showing typical system layouts are available for all INTERGRA III modules.

For additional information, or applications assistance, contact:

SALES ENGINEERING

INSTALLATION

The 517B is designed to be mounted in the Model 857B or Model 858B Card Frame Package. The Model 857B Card Frame Package will accommodate up to 10 cards, using an external power supply (Model 66708). The Model 858B Card Frame Package will accommodate 9 cards, and is supplied with a plug-in power supply card.

The determination as to which backplane assembly to use in your project, was made prior to our factory receiving the order. The backplane assembly you have received will accommodate the group of cards you or your designer have specified.

The actual steps necessary for installation of the 517B Notch Filter card, are comparable to those necessary for and of the 600 series cards. They are as follows:

1 - Mount the card frame in an appropriate EIA 19" width rack, using 4 screws of sufficient strength to provide secure mounting.

2 - A determination has been made as to which type of power supply will be used on your system. Follow the instructions for the type of power supply you will be installing.

EXTERNAL POWER SUPPLY. If an external power supply is to be used, terminate the proper supply connections to pins 1, 2 & 3, of card slot No. 10, as shown in the card frame layout drawing, and the card connection drawing shown on the facing page. Turn on the power supply, and using a DC voltmeter, check for correct voltage and polarity at pins 1, 2, & 3 of card slot number 1.

INTERNAL POWER SUPPLY. If a plug-in power supply card is to be used, plug in the supply card, and check for proper illumination of the two green LEDs on the front of the power supply card.

3 - Terminate all audio input and output connections, using the card connection drawing on the facing page. Double conductor shielded cable is recommended for all audio connections.

4- Unpack each individual card, inspect for shipping damage, and assuming none is found, slide the card half-way into the appropriate slot. After all cards have been installed half-way into the card frame, plug in one card at a time and turn on the power supply, unplug the card and recheck terminations. If no loading is noticed, continue inserting each card in the card frame, checking power supply loading as each card is plugged in. When all the cards have been plugged in, the installation is complete, and all that remains is the alignment.

ALIGNMENT

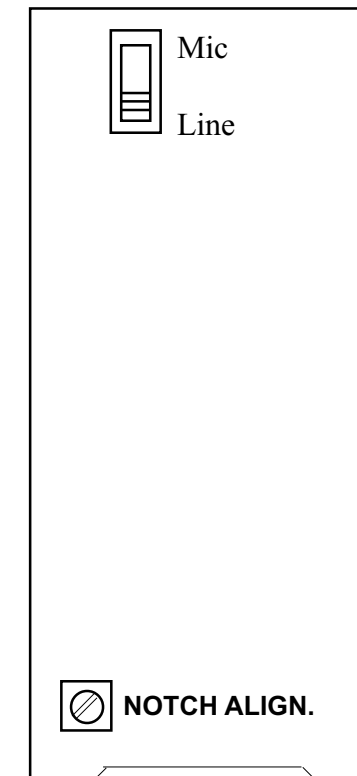
There are no field adjustments necessary to operate the Model 517B Notch Filter card. The operation of the card is automatic. The notch alignment trimpot on the card is adjusted at the factory prior to shipment. This adjustment determines the amount of attenuation provided by the notch filter circuit. The card has been shipped with the notch aligned for maximum attenuation.

The alignment procedures for Integra III System cards, differ from card type to card type. Therefore it is necessary to consult the alignment procedure for each type of card being installed, to properly align a card frame using different card types.

PROTECH®

INTEGRA III SYSTEM
CONNECTOR & TRIMPOT DRAWING
MODEL 517B 25Hz NOTCH FILTER

857B & 858B BACKPLANE CONNECTIONS



⊘	1	INPUT LO
⊘	2	INPUT HI
⊘	3	GROUND *
⊘	4	
○	5	
○	6	
○	7	
○	8	
○	9	
○	10	
○	11	
○	12	
○	13	
○	14	OUTPUT HI
○	15	OUTPUT LO