

Standel®

Solid State Music Systems

P. O. BOX 709
4918 DOUBLE DRIVE
EL MONTE, CALIFORNIA 91734
686-0850 (213) 442-0301



STANDEL SERVICE INFORMATION

1968

PR4 MASTER CONTROL

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CIRCUIT DESCRIPTION

A modular design concept has been utilized throughout the amplifier in order to provide a unit that may be serviced with a minimum of individual component measurements.

The blue modules are high input impedance pre-amplifiers which amplify the signal from the microphone to a level which is compatible with the tone and volume control circuitry associated with each channel. The signals from the separate channels are mixed at the output of the individual volume controls and the composite signal is fed through the Master Volume Control to the Bass and Treble control section. The components of this section are mounted directly on the terminals of the associated controls. Its output signal is mixed with the output of the reverb section at the input to the green module. This module provides the signal level amplification and impedance conversion necessary to drive the line to a PB column.

The yellow module in conjunction with the reverb control, reverb circuitry, and reverb spring, provides the amplifier reverb capabilities. The yellow module has two separate functions. One section serves as a reverb drive pre-amplifier, while the other section provides amplification for the signal from the reverb spring. The circuit components for the reverb drive adjustment are located on a terminal board mounted near the yellow module.

The power supply consists of a stepdown isolation transformer, a rectifier bridge, a capacitive input filter and resistance capacitance filtering as required for the various stages of the amplifier.

TROUBLE SHOOTING

Signal tracing methods may be used to isolate the trouble to a module or component. The signal levels indicated at various points on the circuit should result from a 100 mv RMS input of approximately 300 cycles/second.

The signal levels associated with the blue and yellow leads of the yellow module are not indicated, because the impedance of the reverb spring is extremely variable and cannot be specified. But, the signal level on the yellow lead should be approximately 20 times the signal level on the blue lead. (10 mv on blue should cause approximately 200 mv on yellow.) For the same reason, the signal level indicated at the collector of Q1 is valid only if the cable to the reverb spring is disconnected.

PARTS REPLACEMENT AND BIAS SETTINGS

If reverb drive transistor or associated components must be replaced, it may be necessary to replace R 27 with a value as indicated on the schematic. The reverb drive transistor Q1 may be removed by disconnecting its leads and unscrewing the top of the heatsink. Silicon grease should be applied to a new transistor prior to installation in the heatsink.

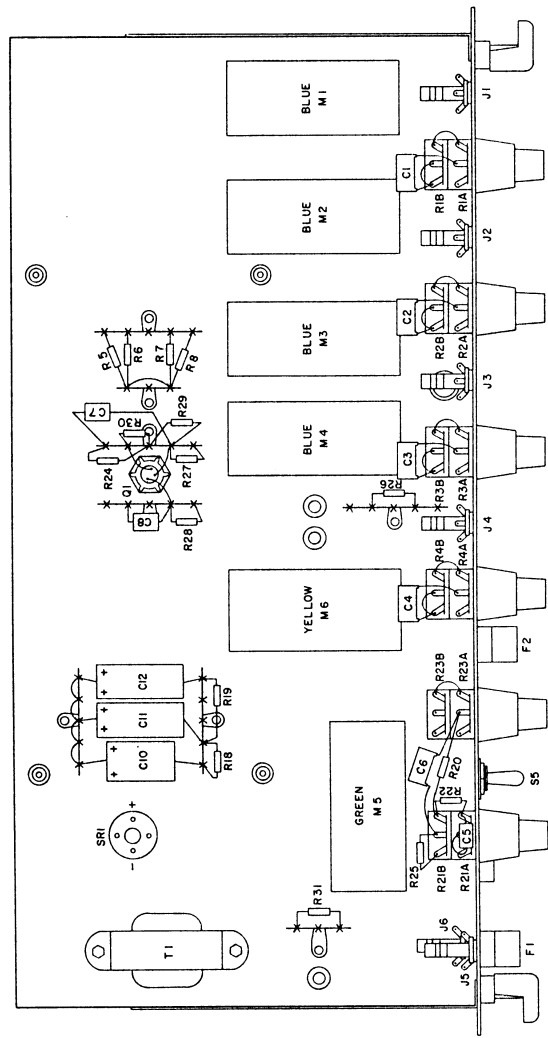
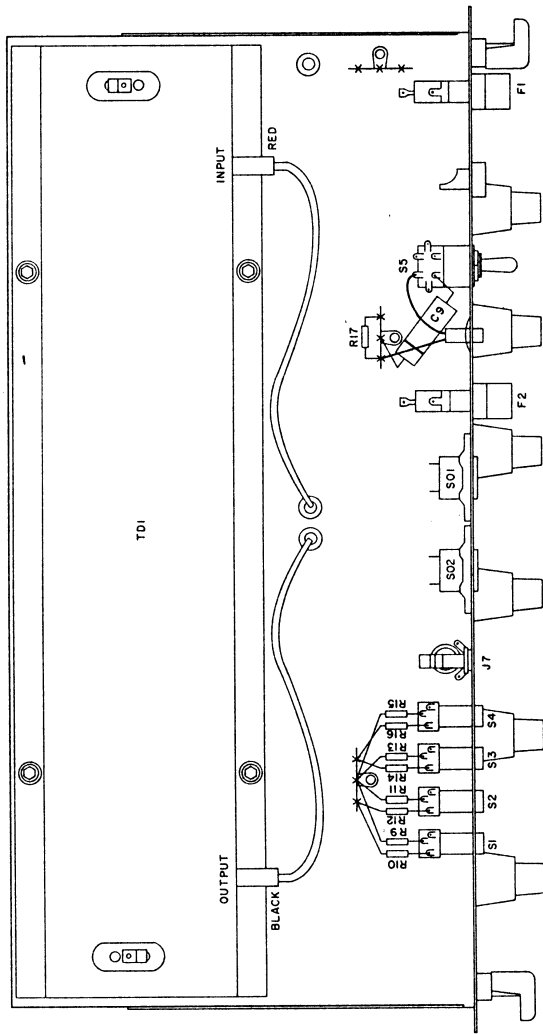
Replacements for faulty modules or components may be ordered from the factory.

When ordering replacement parts, please specify the Standel part number of the required parts, as well as the model and year of the unit for which they are required.

If further information is required, contact factory Service Department at the following address:

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PICTORIAL DIAGRAM
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PRA MASTER CONTROL

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