

Mapletree Audio Design *Special Red* ST-70 Driver Board

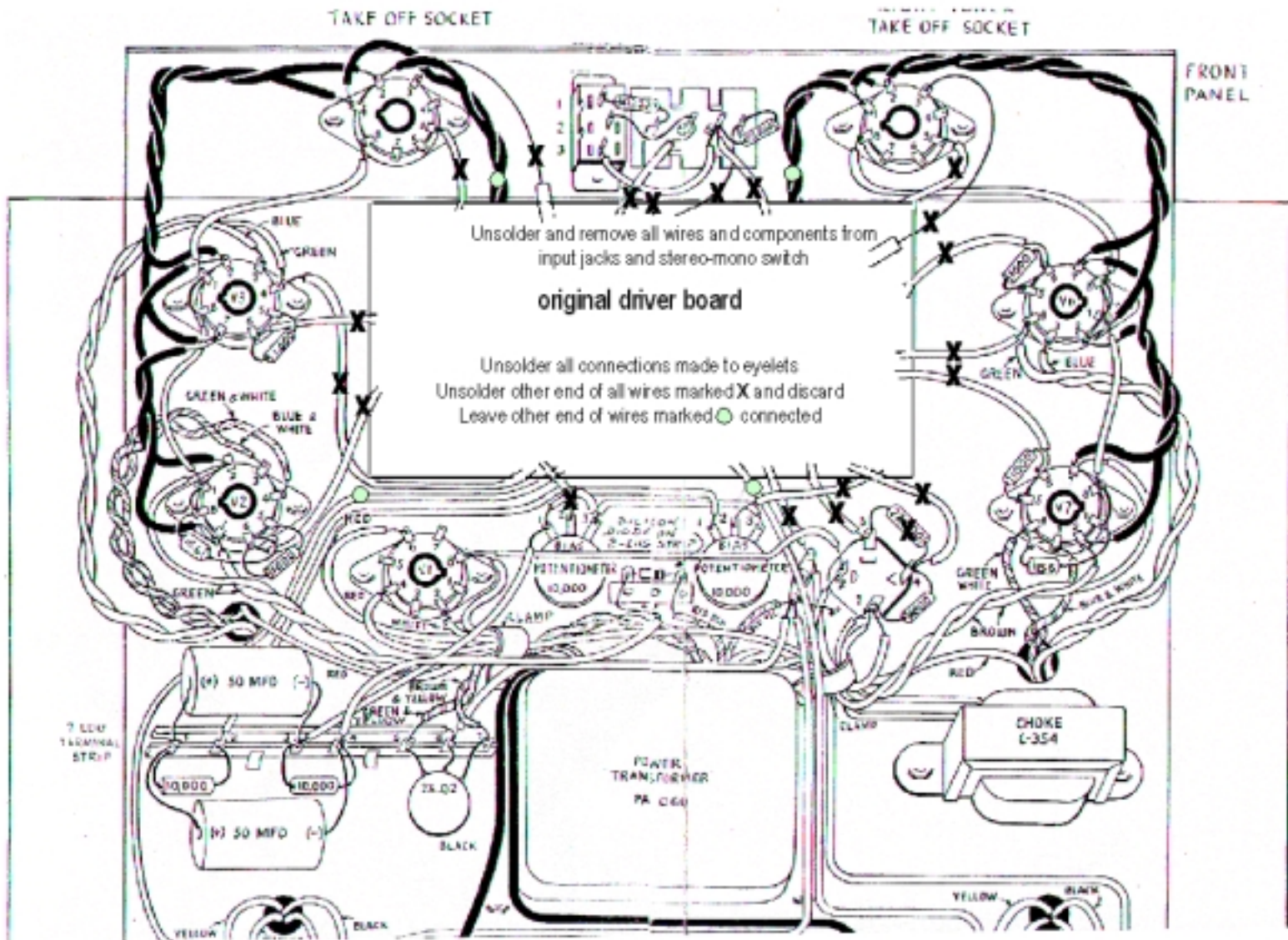
Installation instructions



The *Special Red* (*SR70*) driver board is designed to be a drop in replacement for the original driver board of the Dynaco ST-70 power amplifier. Unlike the original, all wiring on the *SR70* is point-to-point with connections to the amplifier made to silver-plated turrets. The schematic diagram of the *SR70* board identifies the labels on all the turret connections. The instructions identify which of the original wires and components are to be removed and discarded and how the new wiring is to be done using the silver-plated Teflon wire supplied. When making a new connection from one of the *SR70* turrets to a point in the amplifier, first route the wire as shown in the diagram in order to obtain the correct length. Then strip $\frac{1}{4}$ inch of insulation from each end and melt a small amount of solder on the exposed wire by heating it with your soldering iron and melting the solder on to the wire (pre-tinning).

Refer to the wiring diagram showing the original wiring from the amplifier to the eyelets on the original driver board (Figure 1).

1. Unsolder all the connection wires from the eyelets on the original board.
2. Unsolder all wires marked with an “X” from their connections to the amplifier.
3. Leave the wires marked with an “O” connected to the amplifier circuitry. These are the twisted wires coming from the power takeoff sockets on the front panel, and the wires connected to the 16 Ohm taps on the speaker terminal strips.
4. Remove the original board from the chassis.
5. Unsolder all wires and resistors from the input RCA jacks and stereo-mono switch on the front panel. The stereo-mono switch will not be used.
6. Install the *SR70* board using the new 4-40 screws and hex nuts supplied.
7. Unsolder the 22K resistor between lugs 3 and 4 of the original filter capacitor. Trim the leads of the 220K resistor supplied (red-red-yellow-gold) to 1 inch and solder the resistor between pins 3 and 4 of the filter capacitor.



SR Board Installation Figure 1

Refer to the wiring diagram for the SR board connections (Figure 2).

1. Solder the twisted pairs of wires coming from the power takeoff sockets on the front panel to pins 7 and 8 of the 6SL7 tubes V4 (left) and V5 (right) on the SR70 board.
2. Solder the wires coming from the 16 Ohm speaker terminals on the rear panel to the FBL and FBR turrets on the SR70 board.
3. Measure, cut, and strip silver-plated Teflon wire lengths and make the following connections:
 - i. RCA left input jack ground lug to GL turret
 - ii. RCA right input jack ground lug to GR turret
 - iii. RCA left input signal lug to INL turret
 - iv. RCA right input signal lug to INR turret
 - v. Filter capacitor lug 4 to turret B1
 - vi. Filter capacitor lug 3 to turret B2
 - vii. Ground lug (next to filter capacitor) to the ground bus on the SR70

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