

marantz SERVICE BULLETIN

model number 15	bulletin number 69-10/15-1	date 8/25/69
for serial numbers 10000	to 14600	
subject INSTALLATION OF SPKR PROTECTION RLYS.		

In order to provide speaker protection for model 15 amplifiers prior to serial #14600, the following modification is recommended.

Speaker protection kits should be installed in each channel.

INSTALLATION PROCEDURE: (For one module)

- 1) Remove the perforated bottom panel and the two SIDE screws on the heat sinks that retain the rear panel assembly. Turn the unit over and remove the top perforated panel and then the two remaining SIDE screws that also retain the rear panel assembly.
- 2) Carefully pull the rear panel assembly away from the main chassis heat sinks in order to expose the screws that retain the diode bridge board which is located in the center between the overload lights DS101 and DS102.
- 3) Remove the two screws that secure the bakelite diode board to the mounting bracket.
- 4) Move the diode board slightly towards the back of the amplifier and insert the one-inch screws (supplied with the relay mounting kit) into the board and then through the two spacers (also included). Insert the screws into the relay mounting block and then into the mounting bracket as illustrated in Figure 1.
- 5) After the mounting has been completed, the wiring procedure is as follows:
 - a) The BLACK wire from the relay coil should be soldered to a nearby GND point. (See Figure 1)
 - b) Turn the unit over and remove the WHITE wire that connects the positive speaker output terminal and the output terminal strip. (See Figure 2)

PAGE 1

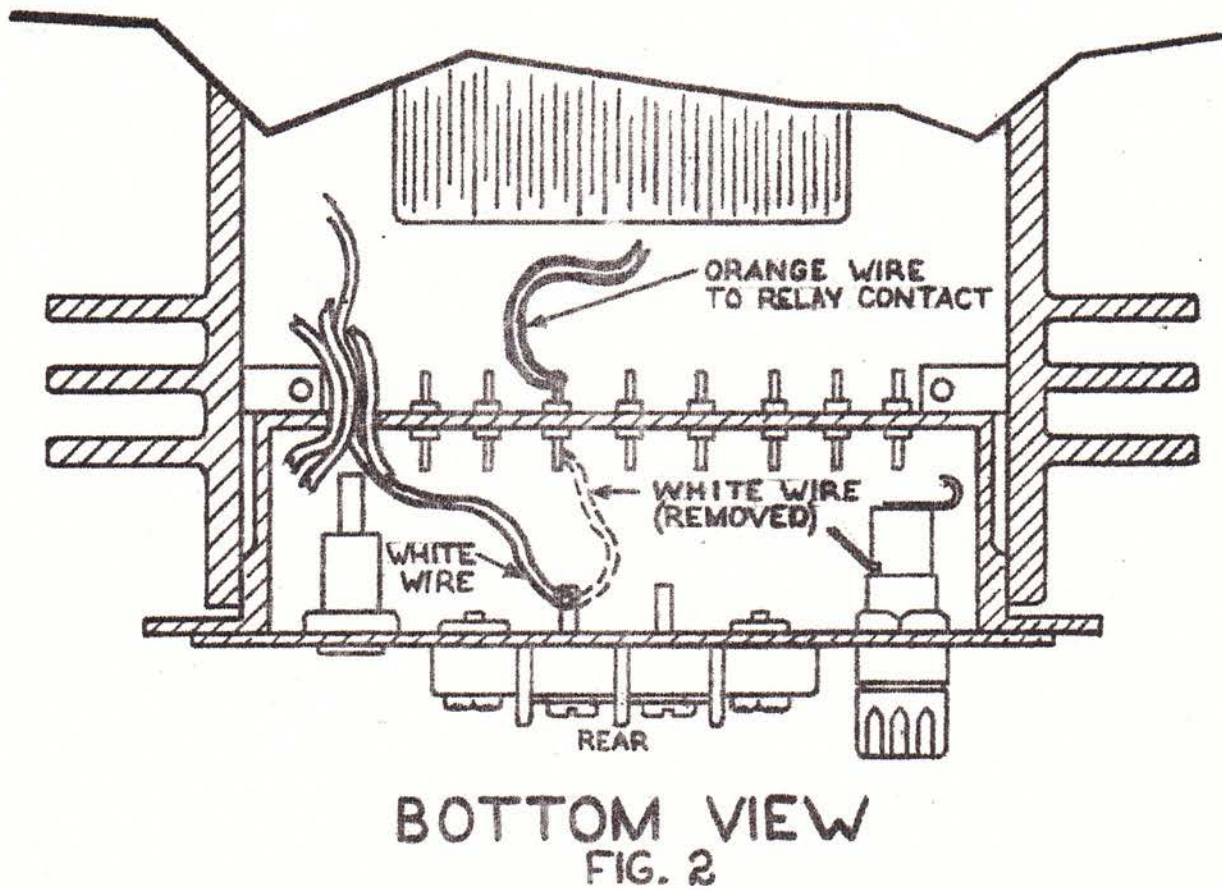
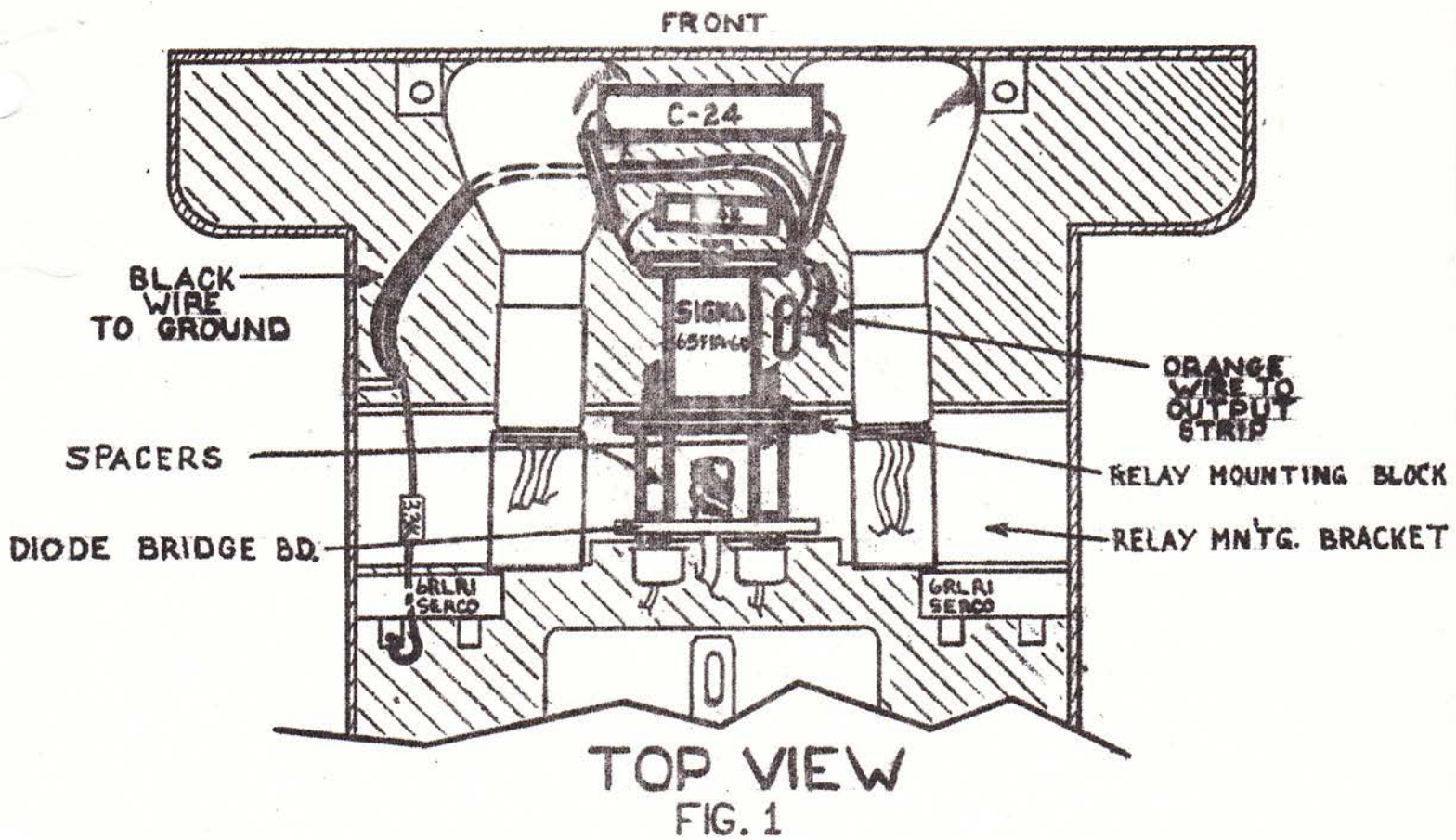
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- c) Solder the WHITE wire from the relay contact to the positive speaker output terminal as shown in Figure 2.
- d) Solder the ORANGE wire from the other side of the relay contact to the positive terminal on the output strip. (See Figure 2)
- 6) The modification has now been completed. Before reassembling the unit refer to service number 15-2/69-11 for an additional modification that should be performed at this point.

PARTS REQUIRED FOR MODIFICATION

Quantity Required for Each Channel	Description	Part Numbers
1	Relay Assy	11-1068
2	Mounting Screws	73-1080
2	Spacers	79-1020



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model number 15	bulletin number 69-14/15-2	date 8/25/69
for serial numbers	to	
subject REPLACEMENT OF REFERENCE DIODES		

The reference diode CR110 in each channel (module) is being replaced with a more reliable type. The location of this diode is shown on page 11 of the model 14/15 service manual. The old type can be identified by the Marantz name printed on them and their small size as compared to the replacement diodes.

After installing the new diodes, readjust the bias on each channel as shown on page 5 of the service manual.

Please note that this modification should be performed in conjunction with the speaker protection relay modification as described in service bulletin number 15-1/69-10.

Part Numbers:

CR110 35-1024

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COMPANY, INC.

INTER-OFFICE MEMORANDUM

P.O. BOX 99, SUN VALLEY, CALIFORNIA 91352

37-04 57TH STREET, WOODSIDE, NEW YORK 11377

REPLY TO: Executive Offices

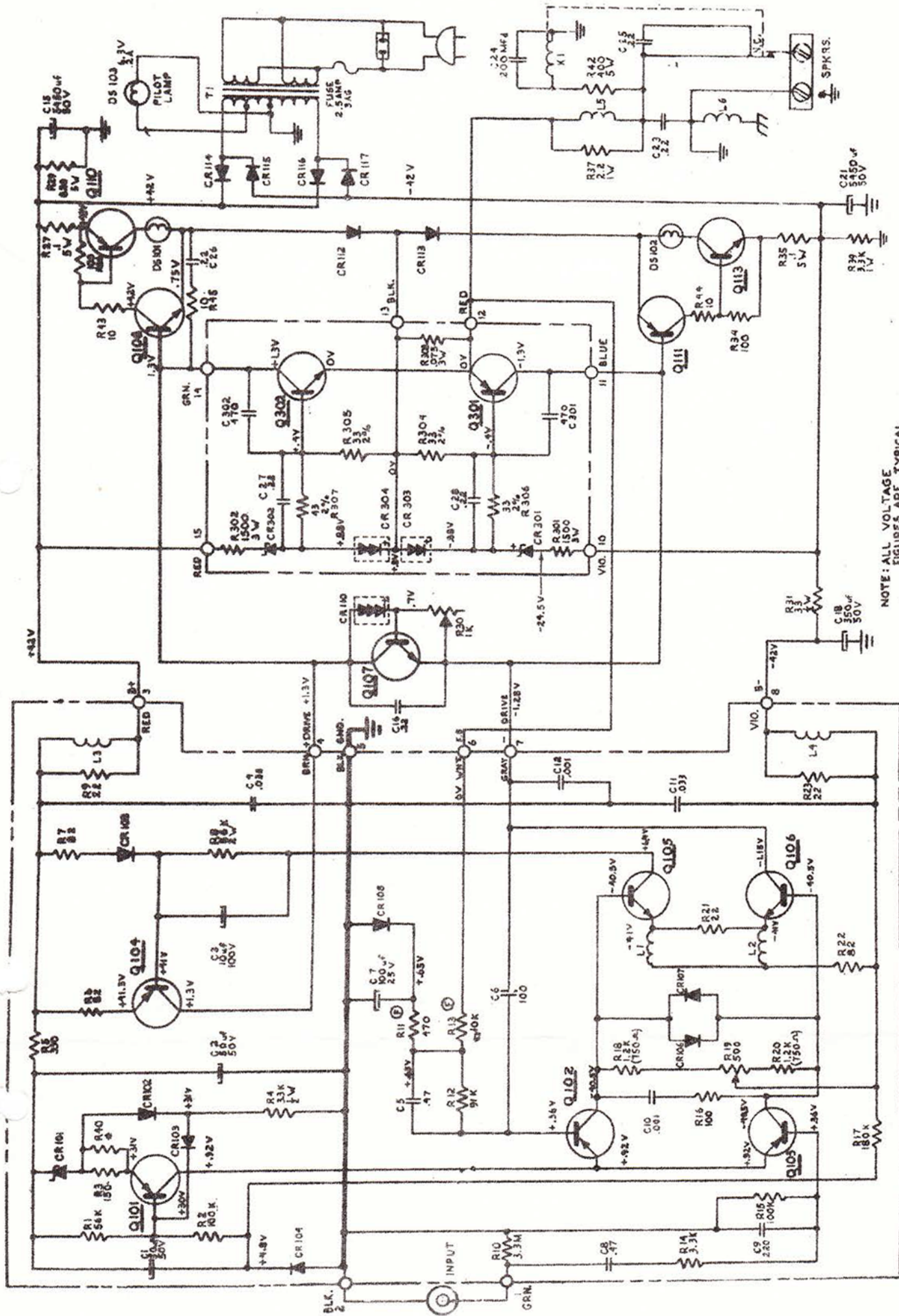
DATE: October 7, 1969

TO: All Authorized Service Stations

SUBJECT: Revised Schematic

Enclosed for your reference is a completely revised schematic for later Model 14/15 amplifiers which includes voltage measurements. These later units can be identified by the single power transistor located externally on each side of the heat sink.

This diagram also illustrates all modifications that have been incorporated in these units to date. For more information on these modifications, refer to service bulletins 69-11/15-1 and 69-14/15-2.



NOTE: ALL VOLTAGE FIGURES ARE TYPICAL

MODEL 14
SCHEMATIC DIAGRAM