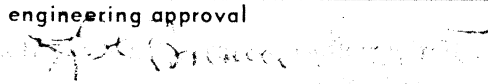
 SERVICE BULLETIN SS-MAR0234	model number 4220	bulletin number M-4220-1
	for serial numbers ALL	
	subject DRIVER IC REPLACEMENT	
	engineering approval 	date 11-25-75

A new driver IC, TA 7109 AP, is now incorporated in current production of the Model 4220. This new IC replaces the TA 7109 P formerly used.

<u>NEW</u>			<u>FORMER</u>	
<u>Ref. Desig.</u>	<u>Part No.</u>	<u>Description</u>	<u>Part Number</u>	<u>Description</u>
H703, H704 H705, H706	HC1-0017-050	TA7109AP	HC1-0004-050	TA7109P

Should it become necessary to replace the driver IC, the applicable replacement procedure described below **MUST** be performed.

I. REPLACEMENT PROCEDURE

For units bearing the following serial numbers and ABOVE;

<u>USA</u>	<u>CANADA</u>	<u>EUROPE</u>
13500	60500	53300

- A. Replace the defective IC with a new IC (TA7109AP) only.
Note: Do not use the TA7109P as a replacement.
- B. Connect a VTVM across the 0.5 ohm emitter resistor of the appropriate channel (R731, R732, R733 or R734).
- C. Slowly rotate the variable resistor of the appropriate channel (R755, R756, R757 or R758) until a VTVM reading of 5mV DC is obtained.
- D. Perform the AUDIO ADJUSTMENT shown on page 6 of the service manual.

II. REPLACEMENT PROCEDURE

For units bearing serial numbers BELOW;

<u>USA</u>	<u>CANADA</u>	<u>EUROPE</u>
13500	60500	53300

- A. Replace the defective IC with the new TA7109AP
- B. **MANDATORY**
Add an 820 ohm, 1/4 watt, fixed resistor between pins 5 and 6 of the new IC.
- C. Connect a VTVM across the 0.5 ohm emitter resistor of the appropriate channel (R731, R732, R733 or R734).

(Cont'd)

- D. A reading of 5mV DC should be obtained.
 - 1. If the voltage measured is more than 5mV, replace the 820 ohm resistor with the next lowest value.
 - 2. If the voltage measured is less than 5mV replace the 820 ohm resistor with the next highest value.
- E. Perform the AUDIO ADJUSTMENT shown on page 6 of the service manual.

Attach this Bulletin in the Model 4220 Service Manual so it remains available for future reference.



Albert Almeida, Manager
Technical Services

marantz

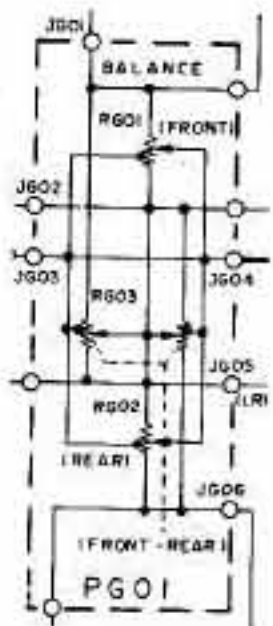
SERVICE BULLETIN

SS-MAR0234

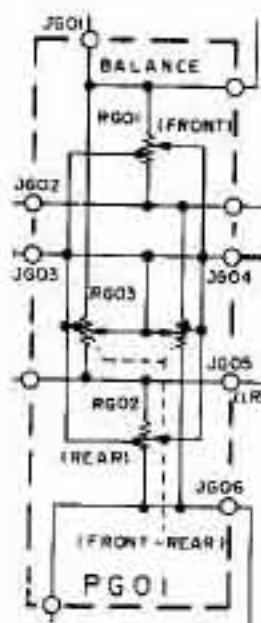
model number 4220	bulletin number M-4220-2
for serial numbers ALL	
subject SERVICE MANUAL CORRECTION	
engineering approval D. Almeida 7-14-76	date 5/20/76

This Service Bulletin corrects an schematic error on page 12 of the Marantz Model 4220 Service Manual.

INCORRECT



CORRECTED



Incorporate this change into your Service Manual to ensure proper reference information.

Almeida
Albert Almeida, Manager
Technical Services