

# Admiral

## MODEL IDENTIFICATION CHART

MODEL	FINISH	RECORD CHANGER	CHASSIS
YG1571	Walnut	RC7F5M-71AN or RC7W5Q-71AN or RC7W5Q-87AN	22C5A
YG8001	Walnut	RC7F4E-70AN	*20C5
YG8002	Mahogany		
YG8001M	Walnut	RC7W4N-94AN or RC7W4N-70AN	22C5
YG8002M	Mahogany		
YG8011	Walnut	RC7F4E-70AN	22C5
YG8012	Mahogany		
YG8025	Maple	RC7F4F-87AN or RC7F4F-71AN	22C5
YG8031	Walnut		
YG8045	Maple	RC7W4N-94AN or RC7W4N-70AN	22C5
YG8051	Walnut		
YG8061	Walnut	RC7W4N-94AN or RC7W4N-70AN	22C5
YG8075	Maple		
YG8011M	Walnut	RC7W4N-94AN or RC7W4N-70AN	22C5
YG8012M	Mahogany		
YG8025M	Maple	RC7W4N-70AN or RC7W4N-86AN	22C5
YG8031M	Walnut		
YG8045M	Maple	RC7W4P-87AN or RC7W4P-71AN	22C5A
YG8051M	Walnut		
YG8061M	Walnut	RC7W4P-87AN	22C5A
YG8075M	Maple		
Radio Information for the Following Stereo Theater Models			
SMG3001	Walnut	RC7F4F-71AN or RC7F4F-87AN	22C5
SMG3002	Mahogany		
SMG3701	Walnut	RC7W4P-71AN or RC7W4P-87AN	22C5A
SMG3705	Maple		
SMG3711	Walnut	RC7W4P-71AN or RC7W4P-87AN	22C5A
SRG2201	Walnut		
SMG2201	Walnut	RC7W4P-71AN or RC7W4P-87AN	22C5A
SMG2205	Maple		

\*FM-AM, no provisions for FM Stereo

### GENERAL

Model YG1571 is a table or wall mount unit, while the others are console models of walnut, mahogany or maple finish. An 11" turntable, 4-speed automatic phonograph with a complete system shut-off is used in each model.

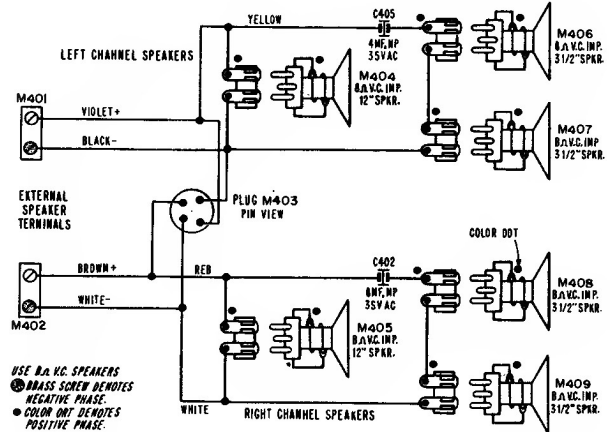
The various chassis are completely transistorized and are in one unit. The chassis are basically identical except that the 20C5 and 20C5A chassis do not have FM stereo circuits. No provisions are available for adding this service to the 20C5 and 20C5A chassis. The 22C5 and 22C5A chassis include the necessary circuitry for FM stereo.

The FM and AM, RF and IF sections are all on one precision wired board. FM Stereo and stereo audio circuits are on a second precision wired board. The FM circuit consists of RF, mixer, oscillator, three IF and a ratio detector stage. The AM consists of an auto-dyne converter, two IF and a diode detector stage. The FM stereo section consists of a 19KC amplifier, 38KC doubler, indicator control stage, and four diodes for FM Stereo detection. Six transistors are used for each stereo audio amplifier section. Attenuator type bass and treble controls along with loudness and balance controls are part of each stereo amplifier. The last three stages are direct coupled for both AC and DC current. Negative feedback is provided from the output to the base of the predriver. The output circuit is complementary symmetry type.

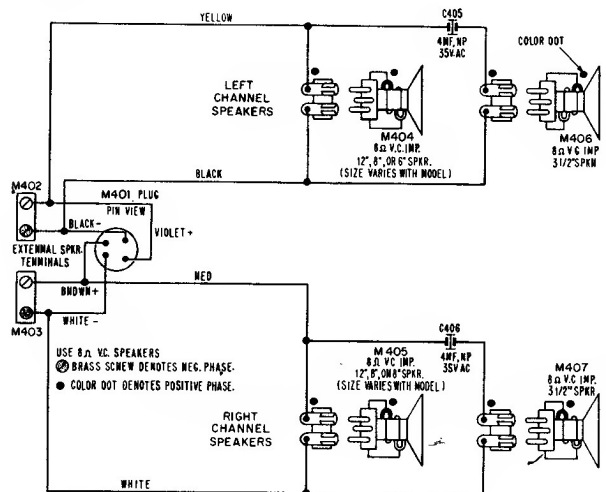
Chassis 22C5, A, 20C5, A

Circuit diagram on pages 8 and 9; other service material on page 10.

## SPEAKER WIRING SCHEMATICS



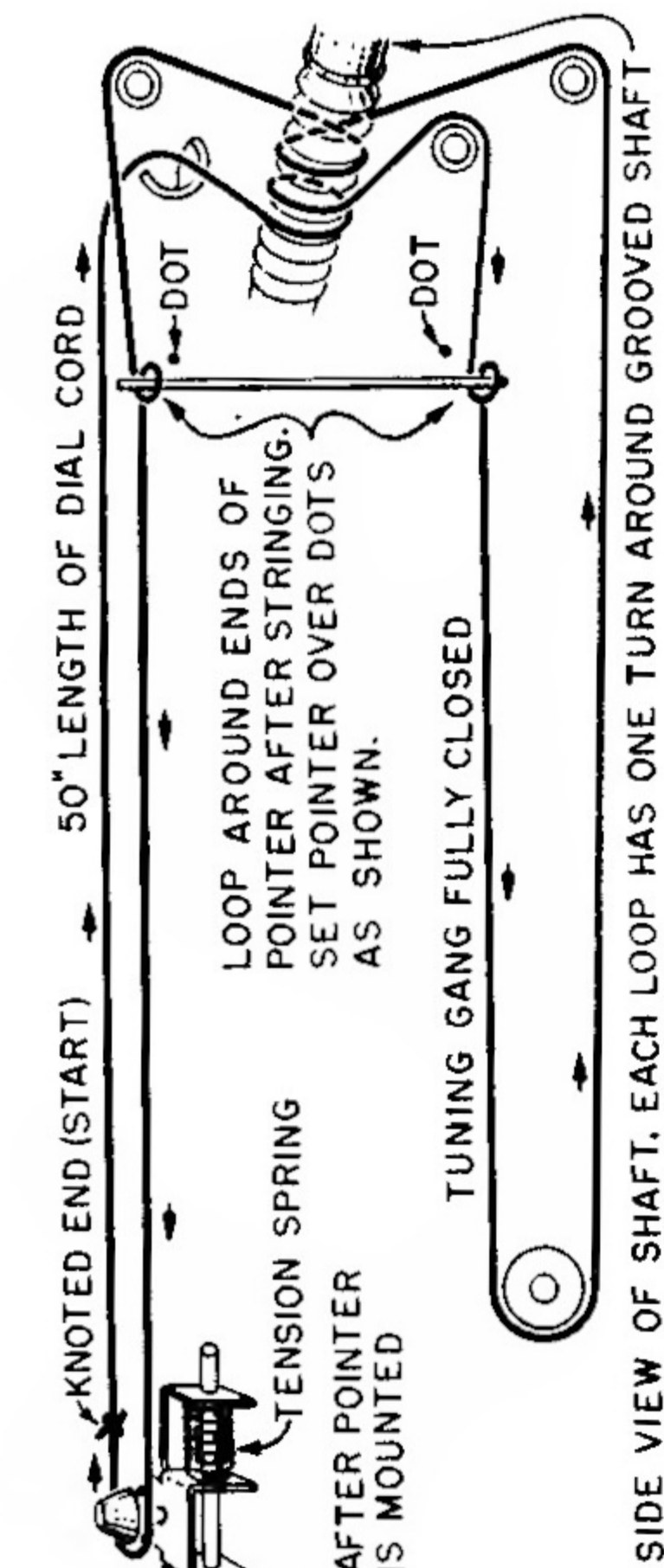
SPEAKER WIRING FOR 'G8031 & M, 45 & M, 51 & M, 61 & M, 75 & M.



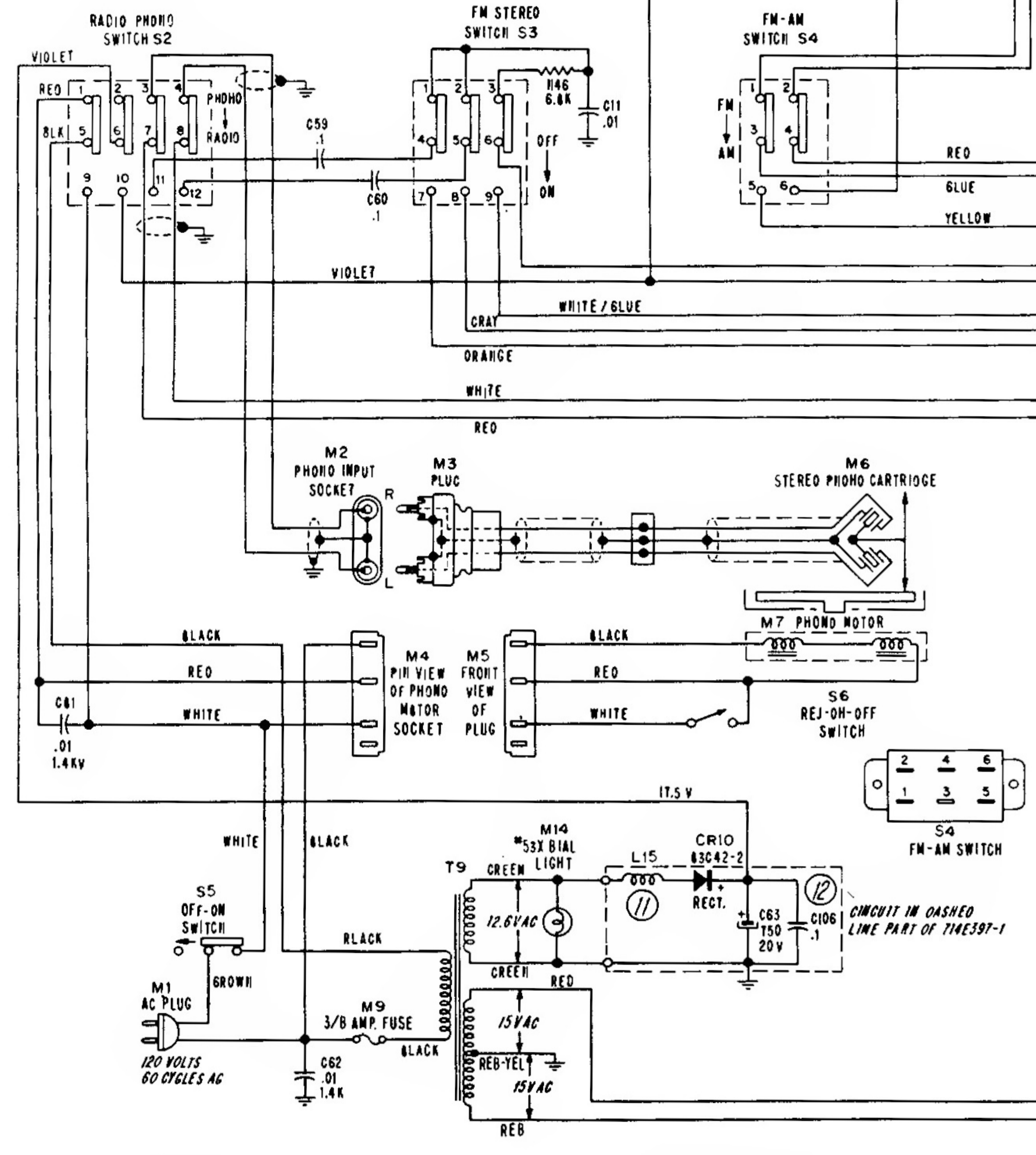
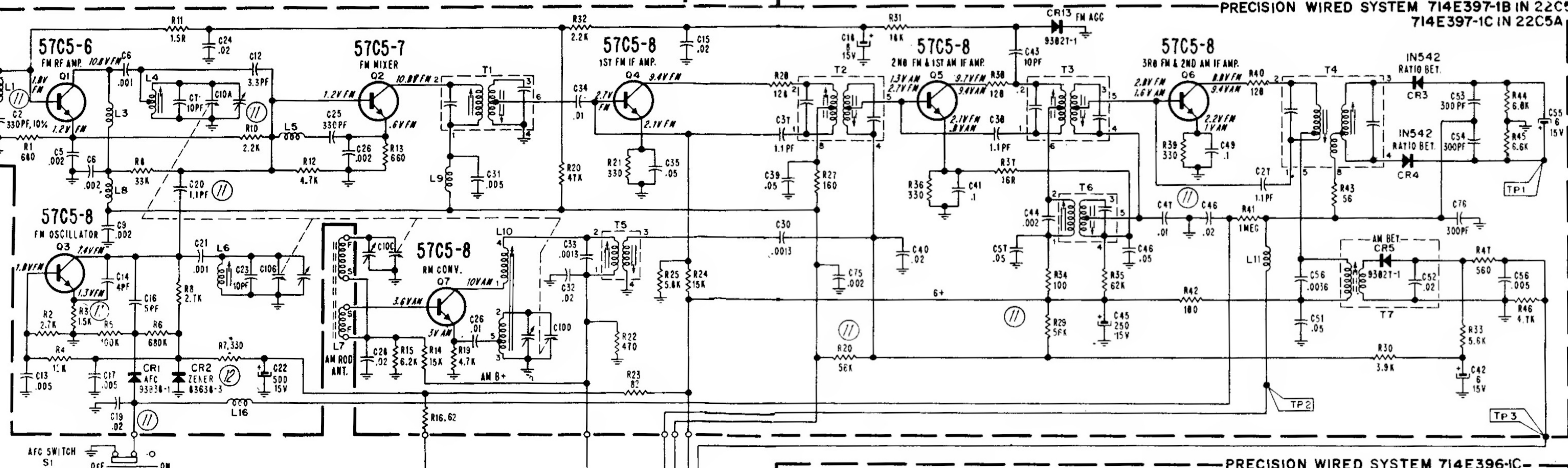
SPEAKER WIRING FOR YG1571, YG800 & M, YG8010 & M, YG8020 & M SERIES.

### RUN CHANGES

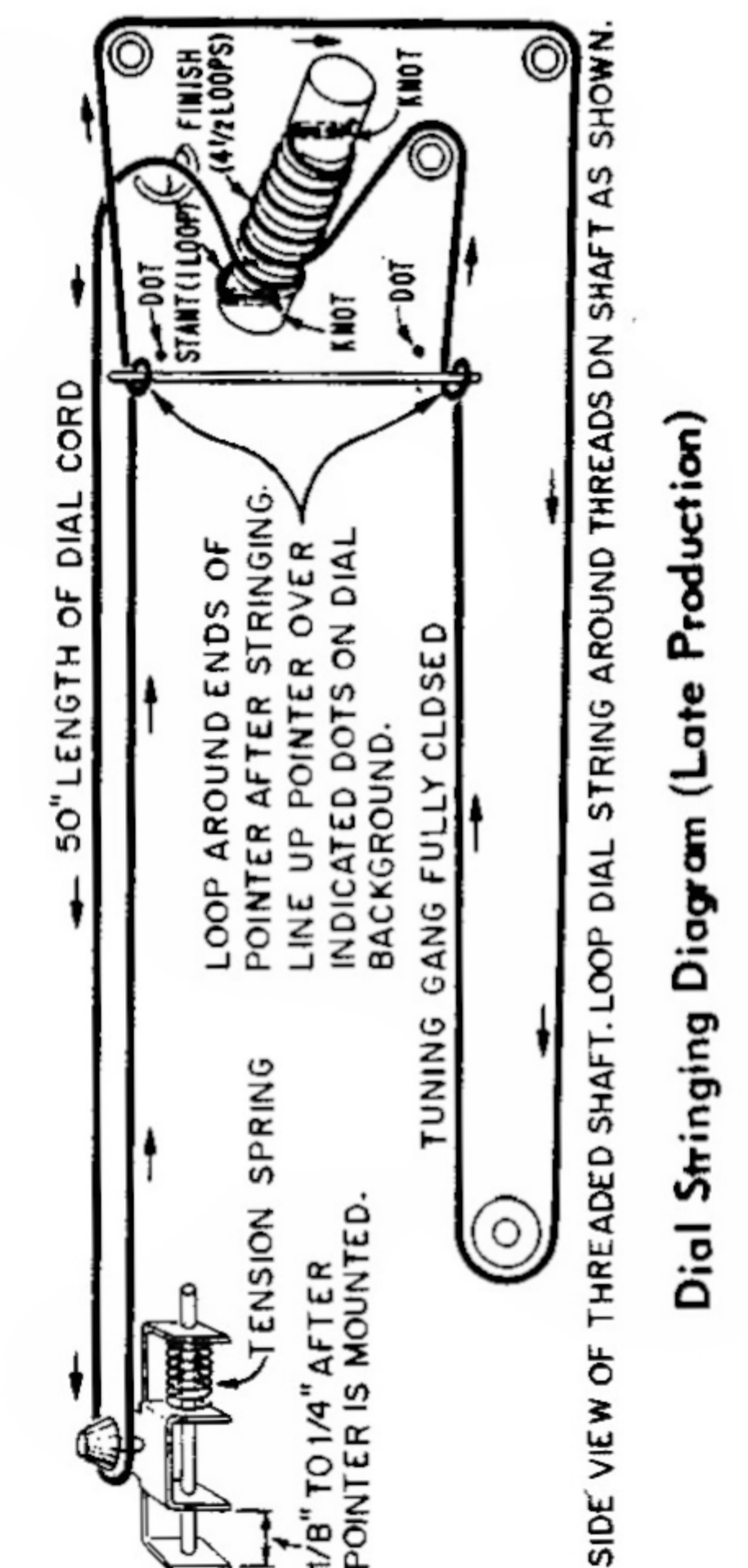
- ⑩ Start of production.
- ⑪ R29 changed from 39k to 56k to reduce noise on AM. Q11 & Q12 change from 57C6-4 to 57C6-9 to reduce noise. R90 & R95 changed from 180 to 220 ohms to reduce cross-modulation. L15 added to reduce buzz. C71 changed from .047mf to .1mf for improving operation of FM stereo indicator lamp. R3 changed from 2.7k to 15k to reduce radiation. C2 lead removed from emitter of Q1 and connected to ground to improve IF rejection. C47 changed from .047mf to .01mf. R59 & R61 changed from 330k to 100k.  
C19 changed from .005mf to .02mf. R10 changed from 1.5k to 2.2k. C20 changed from 2pf to 1.1pf.
- ⑫ R3 changed from 1.5k to 1.1k to improve operation at low line voltage. C106 added across C83 to reduce buzz on FM. Q10 changed from 57C6-7 to 57C6-11 to improve operation of FM stereo indicator lamp. CR2 changed from 93B39-2 to 93B39-3. R7 changed from 150 to 330 ohms. C2 changed from 330pf, 5% to 330pf, 10%. Q19 thru Q22 changed from 57C6-2 to 57C6-8.
- ⑬ R90 & R95 changed from 220 ohm resistor to a Thermistor, for eliminating thermal run-away at high operating temperature and high line voltage.
- ⑭ C96 was changed from 250 to 500mf for reducing hum.



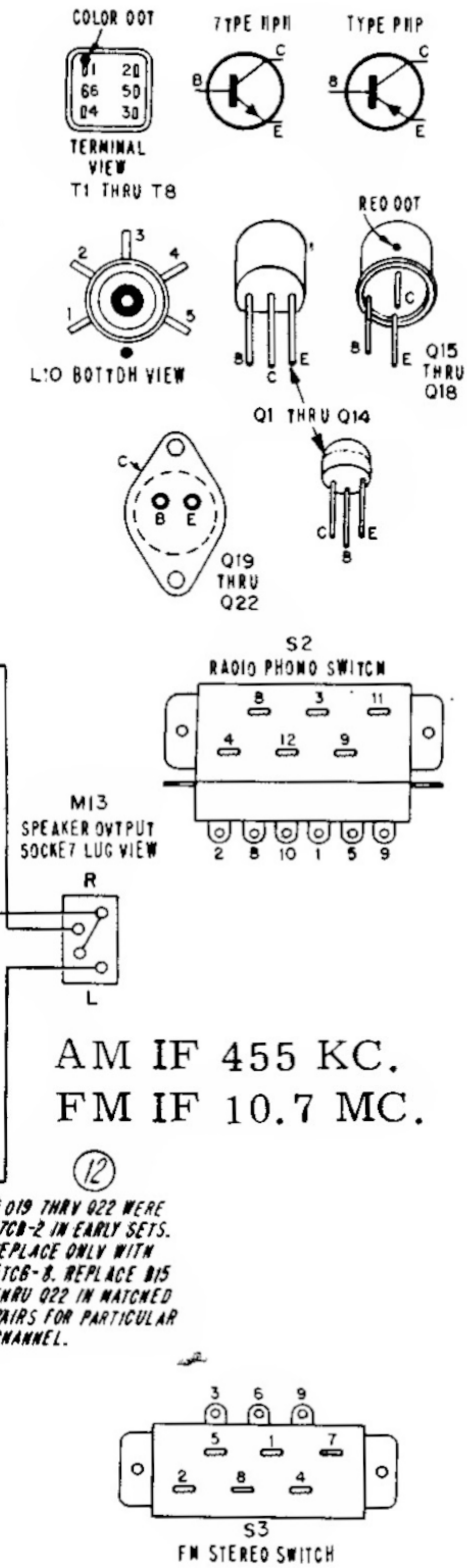
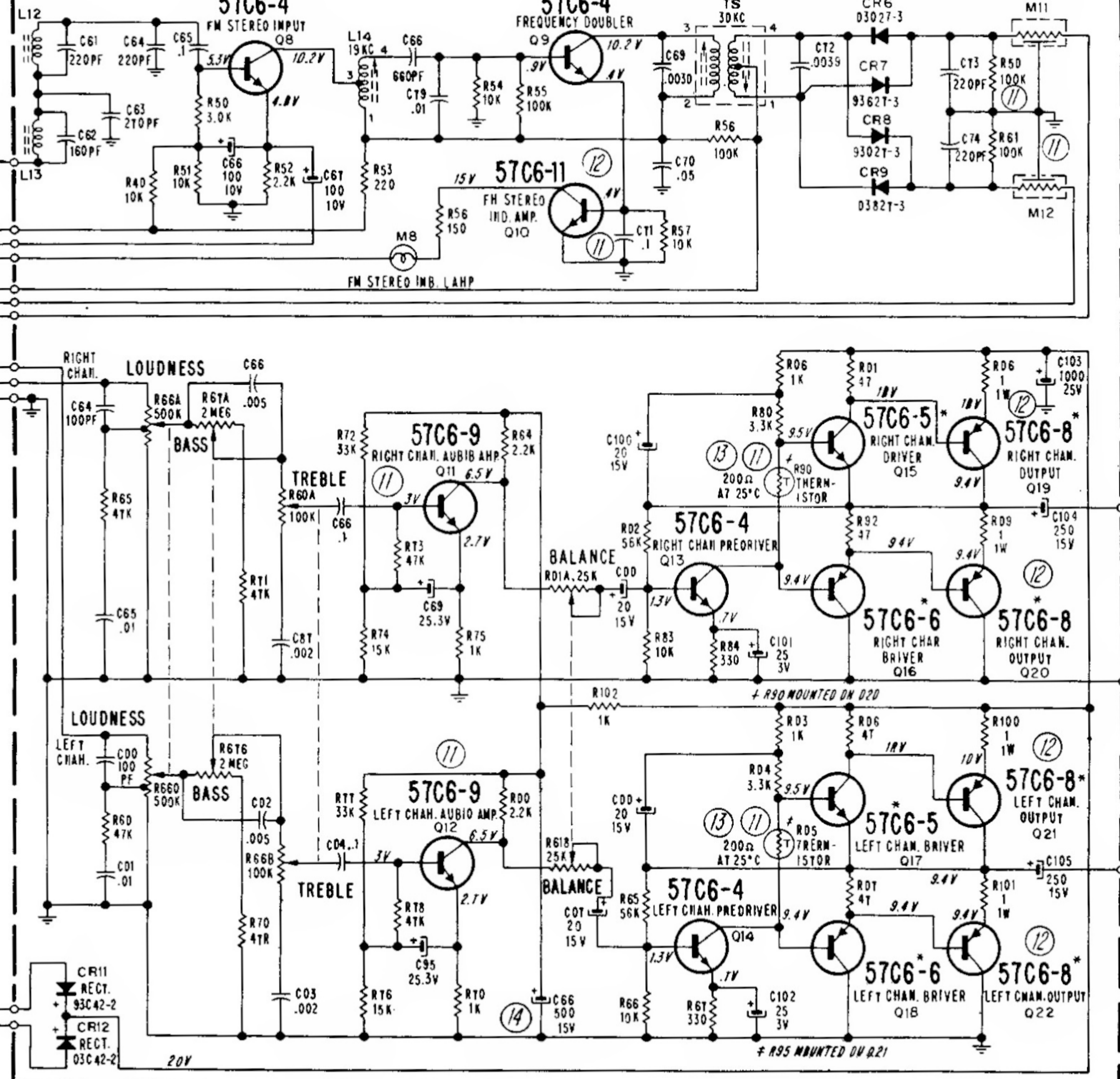
Dial Stringing Diagram (Early Production)



**NOTES:**  
 1. VOLTAGES MEASURED WITH VTVM WITH RESPECT TO CHASSIS GROUND, NO SIGNAL, 120VAC LINE. VOLTAGES AT 1st FM MIXER, 1st & 2nd AM IF STAGES TAKEN WITH REFERENCE VOLTAGE OF 10.4 AT CR2. VOLTAGE MAY VARY BY 10%.  
 2. UNLESS OTHERWISE SPECIFIED CAPACITOR VALUES IN MICROFARADS.  
 3. MOUNT IF A MULTIPLEX TRANSFORMER SO DIMPLE OR RED DOT ON CAN'S FACE REAR OF CHASSIS.  
 4. GREEN DOT ON BOTTOM OF IF & MULTIPLEX TRANSFORMER CASES INDICATES PIN 1.  
 5. ALL RESISTORS ARE 1/2WATT, 10% EXCEPT AS SPECIFIED.



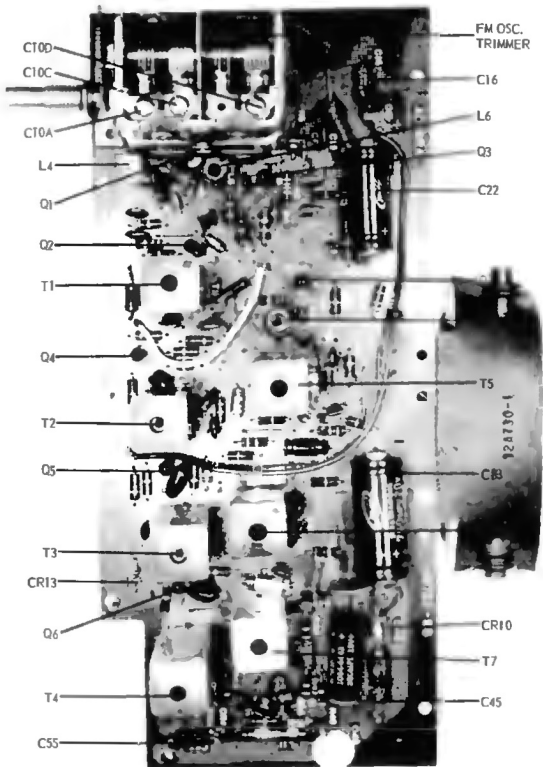
Dial Stringing Diagram (Late Production)



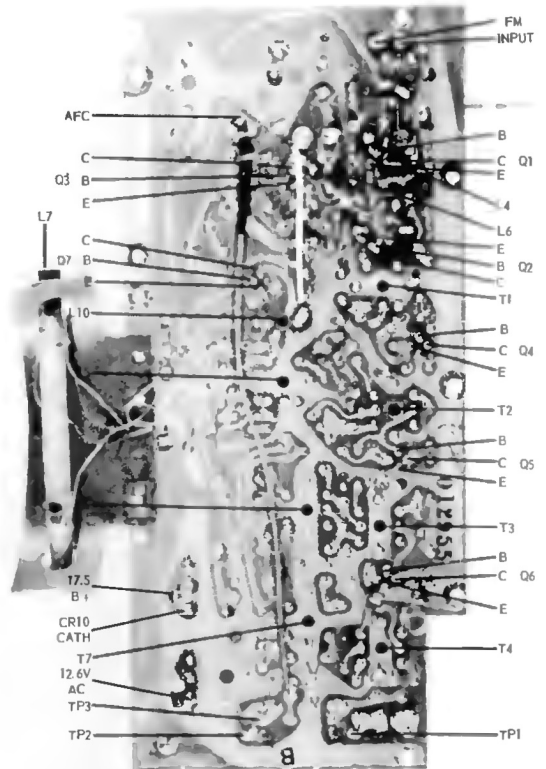
AM IF 455 KC.  
 FM IF 10.7 MC.

⑬ Q19 THRU Q22 WERE 57C6-2 IN EARLY SETS. REPLACE ONLY WITH 57C6-8. REPLACE Q15 THRU Q22 IN MATCHED PAIRS FOR PARTICULAR CHANNEL.

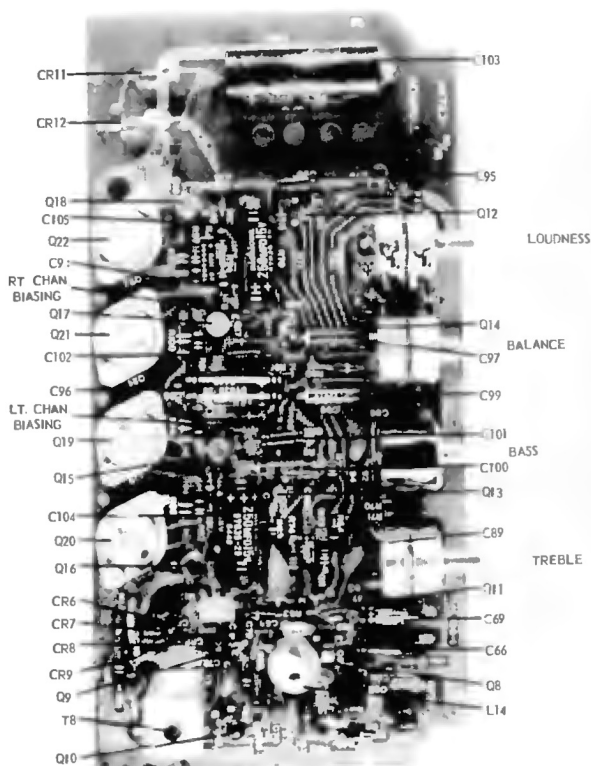
# ADMIRAL Chassis 20C5, A, 22C5, A, Service Information, Continued



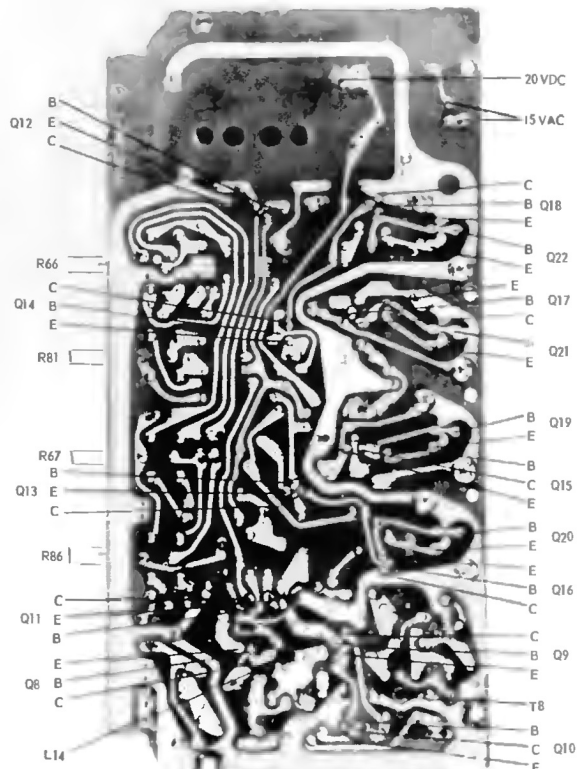
Top View of FM-AM, RF & IF Section



Bottom View of FM-AM, RF & IF Section



Top View of FM Stereo and Stereo Amp Section



Bottom View of FM Stereo and Stereo Amp Section