

# RADIO CORPORATION PTY. LTD.

DIVISION OF ELECTRONIC INDUSTRIES LTD.

126-130 GRANT STREET, SOUTH MELBOURNE, S.C.4.

## TECHNICAL BULLETIN

Bulletin: NM-1.
File: Receivers AC.
29-10-52.
Page 1.

## TABLEGRAM MODEL—"NM"

An Automatic 3 Speed Record Changer (78, 45, 33 r.p.m.) and a 5 Valve Superheterodyne Broadcast Receiver.

#### FOR OPERATION FROM:-

200-250 Volts 50 Cycle AC. Supply Mains. Power Trans. Primary Mains Taps: 200-220V. and 221-250V.

#### POWER CONSUMPTION:—

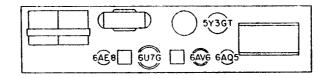
Radio Operation:-55 Watts.-approx. Gramo Operation:-75 Watts.-approx.

#### TUNING RANGE:-

535-1610 Kc/s. - 560.7-186.3 Metres.

#### THIS BULLETIN CONTAINS:-

- 1. Alignment Instructions.
- 2. Circuit Diagram.
- 3. Component Parts List.
- 4. Connections for IF. and RF. Transformers.
- 5. Dial Drive Cording Diagram.
- 6. Valve Placement Diagram.

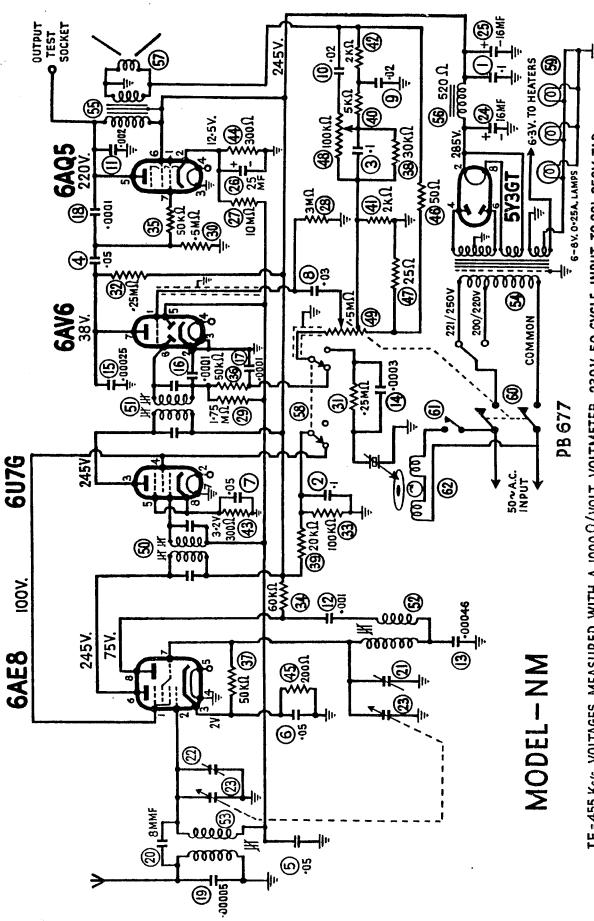


VALVE PLACEMENT DIAGRAM 910/279

## ALIGNMENT PROCEDURE

#### ALIGNMENT CONDITIONS **EQUIPMENT** Load Impedence: 5.000 ohms. Signal Generator: Output Level: 50 Milliwatts. Output Meter: Max. Vol. fully Vol. Control: O.OlMF. (for IF. Mica Capacitor: clockwise. trans. alignment) Intermed. Freq.: 455 Kc/s. 200MMF. Mica Dummy Antenna: Input Voltage: 230 Volts 50 Cycle Capacitor AC. input to trans. 221-250 volt pri. tap. Alignment Tools: Type M195 and Tone Control: Treble position. PM581. Instructions Dummy Opera- Generator Generator Antenna tion Connection Frequency No. Remove chassis from cabinet. Leave grid 0.01MF. Mica 455 Kc/s. 1. To control cap on valve. Peak 2nd I.F. trans. pri. capacitor in grid of series with and sec. for max. output. 6U7G I.F. generator valve Turn cond. gang plates fully out of O.OlMF. Mica 2. To control 455 Kc/s. mesh. Leave grid wire attached to valve capacitor in grid of socket. Peak 1st I.F. trans. pri. and series with 6AE8 valve sec. for max. output. generator (pin No. 2) Repeat operations No. 1 and 2. 3. 4. Fully mesh the cond. gang plates. Set the centre of the dial pointer to align with the centre of the end of travel mark on the dial reading near 540 Kc/s. Turn cond. gang and dial pointer until 200MMF. Mica 5. To antenna 600 Kc/s. centre of dial pointer aligns with capacitor in lead centre of 600Kc/s. spot on dial reading. series with from Leave the gang and pointer set in this generator receiver position and peak the oscl. coil inductance trim (iron core) for max. output. Turn cond. gang and dial pointer until 200MMF. Mica 6. To antenna 1400 Kc/s. centre of dial pointer aligns with capacitor in lead centre of 1400Kc/s. spot on dial reading. series with from Adjust oscl. coil trim condenser for generator receiver logging and peak antenna trans. trim. condenser for max. output. Turn cond. gang and dial pointer until 200MMF. Mica 7. To antenna 600 Kc/s. centre of dial pointer aligns with capacitor in lead centre of 600Kc/s. spot on dial reading. series with from Leave the gang and pointer set in this generator receiver position. Re-peak oscl. coil ind. trim. (iron core) and then peak the antenna trans. ind. trim. (iron core) for max. output. Do not rock the gang or dial pointer to and fro through the signal while adjusting or move them until after the inductance trimmer (iron core) of both of these transformers has been peaked for max. output. Turn cond. gang and dial pointer until 8. To antenna 1400 Kc/s. 200MMF. Mica centre of dial pointer aligns with capacitor in lead centre of 1400Kc/s. spot on dial reading. series with from Adjust oscl. coil trim condenser for generator receiver logging and repeak antenna trans. trim. condenser for max. output.

Tuning range after alignment: 535-1610 Kc/s.



IF.=455 Kc/s. VOLTAGES MEASURED WITH A 1000 1/2 VOLT VOLTMETER 230 V. 50 CYCLE INPUT TO 221-250 V. TAP

| 21 MF " " 20% 400V DCW   | PC103<br>PC103<br>PC103<br>PC218<br>PC109<br>PC102<br>PC102<br>PC102<br>PC303<br>PC111<br>PC111<br>PC111<br>PC112<br>PC128<br>PC212<br>PC126<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636 |
|--|---|
| 21 MF " " 20% 400V DCW 31 MF " " 20% 400V DCW 405 MF " " 20% 200V DCW 505 MF " " 20% 200V DCW 605 MF " " 20% 200V DCW 705 MF " " 20% 200V DCW 803 MF " " 20% 200V DCW 902 MF " " 20% 400V DCW 1002 MF " " 20% 400V DCW 11002 MF " " 20% 600V DCW 12001 MF Mica Condenser 10% 1000 VT 1300046 MF " " 22% 1000 VT 140003 MF " " 10% 1000 VT 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV Composite 26. 25 MF " " 20% 40 PV type 27. 10 megohm Carbon Resistor 10% 10%   | PC103<br>PC218<br>PC109<br>PC102<br>PC102<br>PC102<br>PC303<br>PC111<br>PC111<br>PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636          |
| 21 MF " " 20% 400V DCW 31 MF " " 20% 200V DCW 405 MF " " 20% 200V DCW 505 MF " " 20% 200V DCW 605 MF " " 20% 200V DCW 705 MF " " 20% 200V DCW 803 MF " " 20% 200V DCW 902 MF " " 20% 400V DCW 1002 MF " " 20% 400V DCW 11002 MF " " 20% 600V DCW 12001 MF Mica Condenser 10% 1000 VT 1300046 MF " " 2½% 1000 VT 140003 MF " " 10% 1000 VT 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV Composite 25. 16 MF " " 20% 40 PV Type 27. 10 megohm Carbon Resistor 10% 10% 1000 VT 20. 20% 40 PV Type 27. 10 megohm Carbon Resistor 10% 10% 1000 VT 20% 40 PV Type | PC218<br>PC109<br>PC102<br>PC102<br>PC102<br>PC303<br>PC111<br>PC111<br>PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636                   |
| 31 MF " " 20% 200V DCW 405 MF " " 20% 400V DCW 505 MF " " 20% 200V DCW 605 MF " " 20% 200V DCW 705 MF " " 20% 200V DCW 803 MF " " 20% 200V DCW 902 MF " " 20% 400V DCW 1002 MF " " 20% 600V DCW 11002 MF " " 20% 600V DCW 12001 MF Mica Condenser 10% 1000 VT 1300046 MF " " 2½% 1000 VT 140003 MF " " 10% 1000 VT 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV 10% 10% 10% 10% 10% 10% 10% 10% 10% 10%   | PC109<br>PC102<br>PC102<br>PC102<br>PC303<br>PC111<br>PC111<br>PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636                                     |
| 405 MF " " 20% 400V DCW 505 MF " " 20% 200V DCW 605 MF " " 20% 200V DCW 705 MF " " 20% 200V DCW 803 MF " " 20% 200V DCW 902 MF " " 20% 400V DCW 1002 MF " " 20% 600V DCW 11002 MF " " 20% 600V DCW 12001 MF Mica Condenser 10% 1000 VT 1300046 MF " " 2½% 1000 VT 140003 MF " " 10% 1000 VT 1500025 MF " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV 1000 VT 26. 25 MF " " 20% 40 PV 1000 VT 27. 10 megohm Carbon Resistor 10% 1000 VT  | PC102<br>PC102<br>PC102<br>PC303<br>PC111<br>PC111<br>PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636  |
| 505 MF " " 20% 200V DCW 605 MF " " 20% 200V DCW 705 MF " " 20% 200V DCW 803 MF " " 20% 200V DCW 902 MF " " 20% 400V DCW 1002 MF " " 20% 600V DCW 11002 MF " " 20% 600V DCW 12001 MF Mica Condenser 10% 1000 VT 1300046 MF " " 2½% 1000 VT 140003 MF " " 10% 1000 VT 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV 100  | PC102<br>PC102<br>PC303<br>PC111<br>PC111<br>PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636  |
| 605 MF " " 20% 200V DCW 705 MF " " 20% 200V DCW 803 MF " " 20% 200V DCW 902 MF " " 20% 400V DCW 1002 MF " " 20% 600V DCW 11002 MF " " 20% 600V DCW 12001 MF Mica Condenser 10% 1000 VT 1300046 MF " " 10% 1000 VT 140003 MF " " 10% 1000 VT 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV Composite type 26. 25 MF " " 20% 525PV Type 27. 10 megohm Carbon Resistor 10% 10% 10%  | PC102<br>PC303<br>PC111<br>PC111<br>PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636   |
| 705 MF " " 20% 200V DCW 803 MF " " 20% 200V DCW 902 MF " " 20% 400V DCW 1002 MF " " 20% 600V DCW 11002 MF " " 20% 600V DCW 12001 MF Mica Condenser 10% 1000 VT 1300046 MF " " 2½% 1000 VT 140003 MF " " 10% 1000 VT 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV 1000 Site type 26. 25 MF " " 20% 40 PV 1000 Site type 27. 10 megohm Carbon Resistor 10% 10% 10% 1000 Site type   | PC303<br>PC111<br>PC111<br>PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636  |
| 803 MF " " 20% 200V DCW 902 MF " " 20% 400V DCW 1002 MF " " 20% 600V DCW 11002 MF " " 20% 600V DCW 12001 MF Mica Condenser 10% 1000 VT 1300046 MF " " 2½% 1000 VT 140003 MF " " 10% 1000 VT 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV type 27. 10 megohm Carbon Resistor 10% 10%  | PC111<br>PC111<br>PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636   |
| 902 MF " " 20% 400V DCW  1002 MF " " 20% 400V DCW  11002 MF " " 20% 600V DCW  12001 MF Mica Condenser 10% 1000 VT  1300046 MF " " 2½% 1000 VT  140003 MF " " 10% 1000 VT  1500025 MF " " 10% 1000 VT  160001 MF " " 10% 1000 VT  170001 MF " " 10% 1000 VT  180001 MF " " 10% 1000 VT  1900005 MF " " 10% 1000 VT  20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53)  21. 0-30MMF W.W. Trimmer  22. 1.5-18 MMF Trimmer  23. 2 Gang Varb. Cond.  24. 16 MF E'lytic Cond.  25. 16 MF " " 20% 525PV type  26. 25 MF " " 20% 40 PV type  27. 10 megohm Carbon Resistor 10% 10%  | PC111<br>PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636  |
| 1002 MF " " 20% 400V DCW  11002 MF " " 20% 600V DCW  12001 MF Mica Condenser 10% 1000 VT  1300046 MF " " 2½% 1000 VT  140003 MF " " 10% 1000 VT  1500025 MF " " 10% 1000 VT  160001 MF " " 10% 1000 VT  170001 MF " " 10% 1000 VT  180001 MF " " 10% 1000 VT  1900005 MF " " 10% 1000 VT  20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53)  21. 0-30MMF W.W. Trimmer  22. 1.5-18 MMF Trimmer  23. 2 Gang Varb. Cond.  24. 16 MF E'lytic Cond.  25. 16 MF " " 20% 525PV type  26. 25 MF " " 20% 40 PV type  27. 10 megohm Carbon Resistor   | PC112<br>PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636   |
| 11002 MF " " 20% 600V DCW  12001 MF Mica Condenser 10% 1000 VT  1300046 MF " " 2½% 1000 VT  140003 MF " " 10% 1000 VT  1500025 MF " " 10% 1000 VT  160001 MF " " 10% 1000 VT  170001 MF " " 10% 1000 VT  180001 MF " " 10% 1000 VT  1900005 MF " " 10% 1000 VT  20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53)  21. 0-30MMF W.W. Trimmer  22. 1.5-18 MMF Trimmer  23. 2 Gang Varb. Cond.  24. 16 MF E'lytic Cond.  25. 16 MF " " 20% 525PV type  26. 25 MF " " 20% 40 PV type  27. 10 megohm Carbon Resistor 10% 1W  | PC108<br>PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636  |
| 12001 MF Mica Condenser  10% 1000 VT  1300046 MF " " 2½% 1000 VT  140003 MF " " 10% 1000 VT  1500025 MF " " 10% 1000 VT  160001 MF " " 10% 1000 VT  170001 MF " " 10% 1000 VT  180001 MF " " 10% 1000 VT  1900005 MF " " 10% 1000 VT  20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53)  21. 0-30MMF W.W. Trimmer  22. 1.5-18 MMF Trimmer  23. 2 Gang Varb. Cond.  24. 16 MF E'lytic Cond.  25. 16 MF " " 20% 525PV type  26. 25 MF " " 20% 40 PV type  27. 10 megohm Carbon Resistor   | PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636   |
| 1300046 MF " " 2½% 1000 VT 140003 MF " " 10% 1000 VT 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV type 27. 10 megohm Carbon Resistor 10% 1W  | PC728<br>PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636   |
| 140003 MF " " 10% 1000 VT 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV 27. 10 megohm Carbon Resistor 10% 1W  | PC212<br>PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636  |
| 1500025 MF " " 10% 1000 VT 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV 27. 10 megohm Carbon Resistor 10% 1W  | PC126<br>PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636   |
| 160001 MF " " 10% 1000 VT 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV 27. 10 megohm Carbon Resistor 10% 1W   | PC110<br>PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636  |
| 170001 MF " " 10% 1000 VT 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV 27. 10 megohm Carbon Resistor 10% 1W   | PC110<br>PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636   |
| 180001 MF " " 10% 1000 VT 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV 27. 10 megohm Carbon Resistor 10% 1W   | PC571<br>PC141<br>PC832<br>PC663<br>PC737<br>PC636  |
| 1900005 MF " " 10% 1000 VT 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV 27. 10 megohm Carbon Resistor 10% 1W   | PC141<br>PC832<br>PC663<br>PC737<br>PC636   |
| 20. 8 MMF Silvered Mica Cond. (Part of ant. trans. circuit 53) 21. 0-30MMF W.W. Trimmer 22. 1.5-18 MMF Trimmer 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV 27. 10 megohm Carbon Resistor 10% 1W  | PC832<br>PC663<br>PC737<br>PC636  |
| 21. 0-30MMF W.W. Trimmer  22. 1.5-18 MMF Trimmer  23. 2 Gang Varb. Cond.  24. 16 MF E'lytic Cond.  25. 16 MF " 20% 525PV type  26. 25 MF " 20% 40 PV type  27. 10 megohm Carbon Resistor   | PC663<br>PC737<br>PC636   |
| 22. 1.5-18 MMF Trimmer  23. 2 Gang Varb. Cond.  24. 16 MF E'lytic Cond.  25. 16 MF " 20% 525PV type  26. 25 MF " 20% 40 PV type  27. 10 megohm Carbon Resistor 10% 1W  | PC737<br>PC636  |
| 23. 2 Gang Varb. Cond. 24. 16 MF E'lytic Cond. 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV Type 27. 10 megohm Carbon Resistor 10% 1W  | PC636   |
| 24. 16 MF E'lytic Cond. 20% 525PV Composite 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV Type 27. 10 megohm Carbon Resistor 10% 1W   | Э   |
| 25. 16 MF " " 20% 525PV type 26. 25 MF " " 20% 40 PV 27. 10 megohm Carbon Resistor 10% 1W  |   |
| 26. 25 MF " " 20% 40 PV V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | PC760   |
| 26. 25 MF " " 20% 40 FV) 27. 10 megohm Carbon Resistor 10% 1W  | 10700   |
| 27. 10 megohm Carbon Resistor 10% 1W   |   |
|  | PR236   |
|  | PR282   |
| 29. 1.75 " " " 10% <del>\delta</del> W   | FR248   |
| 305 megohm " " 10% ½W  | PR245   |
| 3125 " " " 10% ½W  | PR249   |
| 32. 25 " " " 10% 1W  | PR496   |
| 33. 100,000 ohm " " 10% 1W   | PR165   |
| 34. 60,000 ohm " " 10% 1W  | PR415   |
| 35. 50,000 ohm " " 10% ½W  | PR160   |
| 36. 50,000 ohm " " 10% \( \frac{1}{2}\text{W} \)   | PR160   |
| 37. 50,000 ohm " " 10%   | PR160   |
| 38. 30,000 ohm " " 10% 1W  | PR151   |
| 30 20 000 ohm " " 10% 1W   | PR171   |
| 40. 5,000 ohm " " 10% ½W   | PR250   |
| 100 0,000 1111   | PR253   |
| 1000 1111  | PR253   |
| 100/ 100   | PR258   |
| 40. 000 olim Willo Would India   | PR122   |
| 44. 300 dim  | PR176   |
| 49. 200 Olim   | PR280   |
| 40. 00 0mm   | PR281   |
| 47. 20 VIIII   | PR720   |
| 48. 100,000 ohm Carbon Potentiometer 20%   | ,   |
| 495 megohm Carbon Potentiometer, tapped at 40 K. ohms.   | PR671   |
| DP. ST. switch attached 20%  | PT869   |
| 50. No. 1 I.F. Trans., 455 Kc/s.   | PT869   |
| 51. No. 2 I.F. Trans., 455 Kc/s.   | PT860   |
| 52. Osc. Trans.  |   |

| Circu<br>No.  | Description  |  | ]   | Го1.  | ± .   | Rating   | Part   | No.           |
|---|--|--|---|---|---|--|--|---------------|
| 53. Antenna Trans. 54. {Power Transformer, 200-250 volt, 50 cycle |  |  |   |   |   | PT905<br>PT807<br>PT809<br>PT848<br>PT806<br>K166<br>S176<br>PM678 |  |               |
| 02.   | crystal cartridge, 200-250V. 50 cycle operation Replacement turnover type head (includes needles) 40 Cycle Drive Bush Special Grub-Screw for 40 cycle drive bush 231/524   |  |   |   |   |  | M292<br>230/524<br>231/524<br>194/415  |               |
| 8 * 9 * Valve Valve Spine Dial Brass Rubb Dial Lamp Swit Lid !    | e Shield — 6U7G e Shield Earth Contact (6Udle Bearing Spring on Swite Pulley, 3" dia. ey Stud s Bush Gang Mtg. er Grommet Gang Mtg. Reading Socket Assy. ch Coupling Crank ch Spindle Extension Hinge Assy. Mount Foot Assy. |  | Dial Pull<br>Dial Poin<br>Tuning Sp<br>Valve Shi<br>Clip — I.<br>Clip — Os<br>Astor Bad<br>Astor Bad<br>Dial Drum<br>Knob Spri<br>Cabinet E | iter indl ield F. T: ic. C ige ige T m Ass ings | Assy. e Assy. – 6AV6 rans. M oil Mtg ransfer y. (4) | tg.  | A104/58<br>PM532<br>279/250<br>PM217<br>22/30C<br>24/754-1<br>13/613<br>A103/763<br>A116/698<br>38/635<br>7/670<br>6/622<br>295/250<br>274/250<br>A102/617<br>22/755<br>A114/763 | 3<br>3-1<br>7 |

#### STYLING

WALNUT CABINET

| Cabinet Lid Grille Tone Knob Gramo Knob Volume Knob Tuning Knob | 201/81-2<br>204/81-2<br>210/81-1<br>178/81-2<br>178/81-2<br>228/81-4<br>228/81-5 | Mahogany Ivory Mahogany | 203/81-1<br>204/81-1<br>210/81-1<br>178/81<br>178/81<br>228/81-1<br>228/81-2 | Walnut<br>"<br>Ivory<br>Walnut<br>" |
|---|--|-------------------------|--|-------------------------------------|
|---|--|-------------------------|--|-------------------------------------|

MAHOGANY CABINET

#### ANTENNA TRANS.

## OSCL. COIL

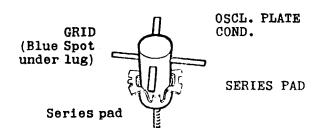


AVC.

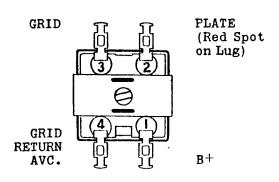


ANTENNA

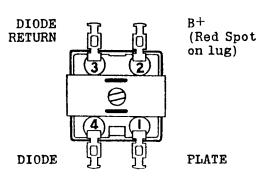
CHASSIS



#### 1st IF. TRANS.



## 2nd IF. TRANS.



## **6AN7 VALVE**

A type 6AN7 valve will be used in place of the type 6AE8 valve in the first production run of the Model "NM" receiver. No circuit component changes are required when using a 6AN7 valve. The wiring connections to the valve socket are different as detailed below. The type 6AE8 valve will burn out if it is plugged into a socket wired for a type 6AN7 valve.

# Pin No. 1. Hexode Screen No. 2. Hexode Control Grid Hexode Control Grid Hexode Control Grid

| 9.9 | 140 • r | , . | Herode  | COLLCIO | Luiiu | 110                          |        |
|-----|---------|-----|---------|---------|-------|------------------------------|--------|
| ,,  | No. 3   | 3.  | Cathode | Э       |       | Ca                           | thode  |
|     | No. 4   | ŀ.  | Heater  |         |       | He                           | ater   |
|     |         |     | Heater  |         |       | He                           | ater   |
|     | No. 6   | 5.  | No Con  | nection |       | He                           | xode P |
|     |         |     | Hexode  |         |       | $\operatorname{\mathtt{Tr}}$ | iode ( |
|     |         |     |         | (oscl)  | Plate | Tri                          | iode ( |
| ••  | No. 9   | ).  | Triode  | (oscl)  | Grid  | No                           | connè  |
| "   | .,      | , - |         | ( ,     |       |                              |        |

Heater
Heater
Hexode Plate
Triode (oscl) Grid
Triode (oscl) Plate
No connection

## CORDING OF DIAL DRIVE

Length of cord required is 5 ft. 6 ins., which includes about 8 ins. to spare for tying to tension spring.

Cord Part No 34/754.

Tension Spring Part No. 27/87.

