

## PHOTOFACT® Folder



**RCA VICTOR MODELS KS11, KS12,  
PM17, PM18, TPM11, TPM12  
(Ch. RC-1192, RS-177A, RS-179)**

**RCA VICTOR MODELS KS11, KS12,  
PM17, PM18, TPM11, TPM12  
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MODEL TPM11



MODEL KS11

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PM17, PM18, TPM11, TPM12  
(Ch. RC-1192, RS-177A, RS-179)**

|                         |                                                                                                                                                                                      |            |                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------|
| TRADE NAME              | RCA Victor Models PM17, PM18 (Preamp. Ch. RS-179, Amp. Ch. RS-177A)<br>TPM11, TPM12 (Tuner Ch. RC-1192, Preamp. Ch. RS-179, Amp. Ch. RS-177A)<br>KS11, KS12 (External Speaker Units) |            |                                            |
| MANUFACTURER            | RCA Victor Radio & "Victrola" Div., Radio Corp. of America, Camden 8, N. J.                                                                                                          |            |                                            |
| TYPE SET                | AC Operated 8 Tube FM-AM Tuner, 2 Tube Stereo Preamplifier, 7 Tube Stereo Amplifier<br>and 4 Speed Automatic Record Changer                                                          |            |                                            |
| POWER SUPPLY            | 110-120 Volts AC, 60 Cycles                                                                                                                                                          | RATING     | 173 Watts, 1.6 Amp. @ 117 Volts AC (FM-AM) |
| TUNING RANGES—BROADCAST | 535-1620KC                                                                                                                                                                           | FREQ. MOD. | 88-108MC                                   |

FOR SERVICE INFORMATION ON RECORD CHANGER — SEE RCA RP-211-1 — PHOTOFACT SET 475 FOLDER 7

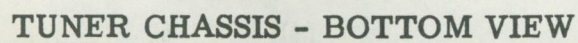
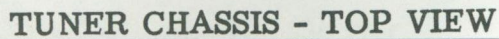
**HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana**



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# ALIGNMENT INSTRUCTIONS

## ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.

Suggested alignment tools:

|                          |                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------|
| A1 thru A4, A8 thru A10. | GENERAL CEMENT #5097, 8727<br>WALSCO #2515                                                       |
| A5, A6.....              | GENERAL CEMENT #5004, 5008, 5009<br>WALSCO #2520                                                 |
| A7.....                  | GENERAL CEMENT #8721, 8722<br>WALSCO #2519                                                       |
| A11, A12.....            | GENERAL CEMENT #5009, 8195, 8274, 8275, 8728, 8729, 8987, 8988, 8989<br>WALSCO #2515, 2531, 2532 |
| A15, A16.....            | GENERAL CEMENT #5000, 5003, 5066, 8276, 8290, 9087, 9089<br>WALSCO #2512, 2525, 2528             |

### AM ALIGNMENT — SELECTOR IN AM POSITION

|    | SIGNAL GENERATOR COUPLING                                                   | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING           | CONNECT VTVM                                             | ADJUST         | REMARKS                                                                                                    |
|----|-----------------------------------------------------------------------------|----------------------------|------------------------------|----------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------|
| 1. | High side thru .01mfd to pin 7 (grid) of AM Converter. Low side to chassis. | 455KC (400% Mod.)          | (AM) Tuning gang fully open. | DC probe to point $\textcircled{A}$ . Common to chassis. | A1, A2, A3, A4 | Adjust for maximum deflection.                                                                             |
| 2. | Loop                                                                        | 1620KC                     | "                            | "                                                        | A5             | Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output. |
| 3. | "                                                                           | 1400KC                     | Tune to 1400KC signal.       | "                                                        | A6             | Adjust for maximum deflection.                                                                             |
| 4. | "                                                                           | 600KC                      | Tune to 600KC Signal.        | "                                                        | A7             | Adjust for maximum deflection while rocking tuning gang.                                                   |

### FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM—SELECTOR IN FM POSITION

|    | SIGNAL GENERATOR COUPLING                                                  | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING              | CONNECT VTVM                                                         | ADJUST   | REMARKS                                                                                                          |
|----|----------------------------------------------------------------------------|----------------------------|---------------------------------|----------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------|
| 5. | High side thru .001mfd to pin 1 (grid) of FM Limiter. Low side to chassis. | 10.7MC (Unmod.)            | (FM) Point of non-interference. | DC probe to point $\textcircled{B}$ . Common to chassis.             | A8       | Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. |
| 6. | "                                                                          | "                          | "                               | DC probe thru 1meg to point $\textcircled{C}$ . Common to chassis.   | A9       | Adjust for maximum deflection.                                                                                   |
| 7. | High side thru .001mfd to pin 1 (grid) of 2nd FM IF. Low side to chassis.  | "                          | "                               | DC probe thru 270K to pin 1 (grid) of FM Limiter. Common to chassis. | A10      | "                                                                                                                |
| 8. | High side thru .001mfd to pin 1 (grid) of 1st FM IF. Low side to chassis.  | "                          | "                               | "                                                                    | A11, A12 | "                                                                                                                |
| 9. | Across FM antenna terminals.                                               | "                          | "                               | "                                                                    | A13, A14 | "                                                                                                                |

### FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE—SELECTOR IN FM POSITION

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection.

|    | SIGNAL GENERATOR COUPLING                                                  | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING              | CONNECT SCOPE                                                            | ADJUST   | REMARKS                                                                    |
|----|----------------------------------------------------------------------------|----------------------------|---------------------------------|--------------------------------------------------------------------------|----------|----------------------------------------------------------------------------|
| 5. | High side thru .001mfd to pin 1 (grid) of FM Limiter. Low side to chassis. | 10.7MC (450KC Swp)         | (FM) Point of non-interference. | Vert. amp. to point $\textcircled{B}$ . Low side to chassis.             | A8       | Adjust to place marker at the center of crossover lines similar to Fig. 1. |
| 6. | "                                                                          | "                          | "                               | Vert. amp. thru 27K to point $\textcircled{C}$ . Low side to chassis.    | A9       | Adjust for maximum gain and symmetry of response similar to Fig. 2.        |
| 7. | High side thru .001mfd to pin 1 (grid) of 2nd FM IF. Low side to chassis.  | "                          | "                               | Vert. amp. thru 270K to pin 1 (grid) of FM Limiter. Low side to chassis. | A10      | "                                                                          |
| 8. | High side thru .001mfd to pin 1 (grid) of 1st FM IF. Low side to chassis.  | "                          | "                               | "                                                                        | A11, A12 | "                                                                          |
| 9. | Across FM Antenna terminals.                                               | "                          | "                               | "                                                                        | A13, A14 | "                                                                          |

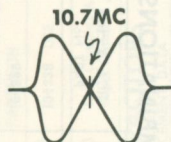


FIG. 1

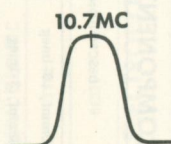


FIG. 2

### FM RF ALIGNMENT—SELECTOR IN FM POSITION

|     | SIGNAL GENERATOR COUPLING              | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING       | CONNECT VTVM                                                         | ADJUST                       | REMARKS                        |
|-----|----------------------------------------|----------------------------|--------------------------|----------------------------------------------------------------------|------------------------------|--------------------------------|
| 10. | Across FM antenna terminals thru 270K. | 87.5MC (Unmod.)            | (FM) Low Freq. End Stop. | DC probe thru 270K to pin 1 (grid) of FM Limiter. Common to chassis. | FM Tuner String Drive Collar | Adjust for maximum deflection. |
| 11. | "                                      | 108.5MC                    | High End Stop.           | "                                                                    | A15                          | "                              |
| 12. | "                                      | 95MC                       | Tune to 95MC signal.     | "                                                                    | A16                          | "                              |

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FOLDER 12



## TUNER PARTS LIST AND DESCRIPTIONS

## TUBES

| CBS      |                      |       | GENERAL ELECTRIC |                         |       | RAYTHEON |     |      | SYLVANIA |     |      |
|----------|----------------------|-------|------------------|-------------------------|-------|----------|-----|------|----------|-----|------|
| ITEM No. | USE                  | TYPE  | ITEM No.         | USE                     | TYPE  | ITEM No. | USE | TYPE | ITEM No. | USE | TYPE |
| V1       | FM RF Amp. -FM Conv. | 12DT8 | V5               | Discriminator-AM Det. - | 19T8  |          |     |      |          |     |      |
| V2       | 1st FM IF Amp.       | 12BA6 | V6               | AM Converter            | 12BE6 |          |     |      |          |     |      |
| V3       | 2nd FM IF Amp.       | 12BA6 | V7               | AM IF Amp.              | 6BA6  |          |     |      |          |     |      |
| V4       | FM Limiter           | 12AU6 | V8               | Rectifier               | 35W4  |          |     |      |          |     |      |

## ELECTROLYTIC CAPACITORS

| ITEM No. | RATING |       | REPLACEMENT DATA    |                  |                           |                  |                  |                  | NOTES |
|----------|--------|-------|---------------------|------------------|---------------------------|------------------|------------------|------------------|-------|
|          | CAP.   | VOLT. | RCA Victor PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | PYRAMID PART No. | SPRAGUE PART No. |       |
| C1A      | 80     | 150   | 73520               | AFH2-19          | XB0181                    | FP216            | TMD-17           | TVL-2442.1       |       |
| B        | 150    | 150   |                     |                  |                           |                  |                  |                  |       |

## FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

| ITEM No. | RATING          | REMARKS | REPLACEMENT DATA |                    |                           |                  |                  |                  |
|----------|-----------------|---------|------------------|--------------------|---------------------------|------------------|------------------|------------------|
|          |                 |         | AEROVOX PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | ELMENCO PART No. | MALLORY PART No. | SPRAGUE PART No. |
| C2       | 6 5%            | Note 1  | N750-SI 10       | TCN-10             | C10V8C                    | CCTN-100         | CN7-410          | 10TCU-Q10        |
| C3       | 10 N750 + 1mmf  |         | SI 1000          | DD-102             | C10Q1U                    | CCD-102          | GP210            | 5HK-D10          |
| C4       | 1000            |         | SI 1000          | DD-102             | BYA10D1                   | CCD-102          | GP210            | 5HK-D10          |
| C5       | 1000            |         | NPO-SI 20        | TCZ-20             | C10Q2C                    | CCTO-200         | CNO-422          | 10TCC-Q20        |
| C6       | 20 NPO          |         | NPO-SI 20        | TCZ-20             | C10Q2C                    | CCTO-200         | CNO-422          | 10TCC-Q20        |
| C7       | 20 NPO          |         |                  |                    |                           |                  |                  |                  |
| C8       | 2-6             |         |                  |                    |                           |                  |                  |                  |
| C9       | 10 N470 + 1mmf  |         | NPO-SI 15        | TCZ-15             | C10Q15C                   | CCTO-150         | CNO-415          | 10TCC-Q15        |
| C10      | 15 NPO 10%      |         | BPD-001          | DD-102             | BYA10D1                   | CCD-102          | GP210            | 5HK-D10          |
| C11      | 1000            |         |                  |                    |                           |                  |                  |                  |
| C12      | 8.2 P100 + 1mmf |         | N750-SI 68       | TCN-68             | C10Q68U                   | CCTN-680         | CN7-468          | 10TCU-Q68        |
| C13      | 68 N750 5%      |         | BPD-01           | DD-103             | BYA10S1                   | CCD-103          | GP110            | 5HK-S10          |
| C14      | 10000           |         | BPD-0022         | DD-222             | BYA10D22                  | CCD-222          | GP222            | 5HK-D22          |
| C15      | 2200            |         | BPD-0047         | DD-472             | BYA10D47M                 | CCD-472          | GP247            | 5HK-D47          |
| C16      | 4700            |         | BPD-0047         | DD-472             | BYA10D47M                 | CCD-472          | GP247            | 5HK-D47          |
| C17      | 4700            |         | BPD-0047         | DD-472             | BYA10D47M                 | CCD-472          | GP247            | 5HK-D47          |
| C18      | 4700            |         | BPD-00047        | DD-471             | BYA10T47                  | CCD-471          | GP347            | 10TS-T47         |
| C19      | 470             |         |                  | DD-681             | 1R5T68                    | CCD-681          | GP368            | 10TS-T68         |
| C20      | 680 10%         |         |                  | DD-203             | CUB4S22                   | 4DP-2-223        | GEM-4122         | 4TM-S22          |
| C21      | .022 200V       |         |                  | 829-10             |                           |                  |                  |                  |
| C22      | 2-10            |         | P488N-047        | DD-503             | CUB4S47                   | 4DP-473          | GEM-4147         | 4TM-S47          |
| C23      | .047 400V       |         | N750-SI 56       | TCN-56             | C10Q56U                   | CCTN-560         | CNO-456          | 10TCU-Q56        |
| C24      | 56 N750 10%     |         | BPD-01           | DD-103             | BYA10S1                   | CCD-103          | GP110            | 5HK-S10          |
| C25      | 10000           |         | BPD-0047         | DD-472             | BYA10D47M                 | CCD-472          | GP247            | 5HK-D47          |
| C26      | 4700            |         | BPD-01           | DD-103             | BYA10S1                   | CCD-103          | GP110            | 5HK-S10          |
| C27      | 10000           |         | P684CM-057       |                    |                           | 4DP-3-563        | GEM-6156         | 2WF-S56          |
| C28      | .056 200V       |         | P684CM-057       |                    |                           | 4DP-3-563        | GEM-6156         | 2WF-S56          |
| C29      | .056 200V       |         | P688N-047        | DD-503             | CUB6S47                   | 6DP-3-473        | GEM-6147         | 6TM-S47          |
| C30      | .047 600V       |         | P688N-0047       | D6-472             | CUB6D47                   | 6DP-3-473        | GEM-6247         | 6TM-D47          |
| C31      | .0047 600V      |         | BPD-01           | DD-103             | BYA10S1                   | CCD-103          | GP110            | 5HK-S10          |
| C32      | 10000           |         | BPD-01           | DD-103             | BYA10S1                   | CCD-103          | GP110            | 5HK-S10          |
| C33      | 10000           |         | BPD-01           | DD-103             | BYA10S1                   | CCD-103          | GP110            | 5HK-S10          |
| C34      | 10000           |         | BPD-01           | DD-103             | BYA10S1                   | CCD-103          | GP110            | 5HK-S10          |

Note 1. Not used in some versions.

\* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

## COMPONENT COMBINATIONS

| ITEM No. | USE               | DESCRIPTION     | RCA Victor PART No. | REPLACEMENT DATA                  |
|----------|-------------------|-----------------|---------------------|-----------------------------------|
| K1       | FM Antenna Filter | 470mmf, .3-1meg | 104328              | Centralab RC-471<br>Sprague AC1-1 |
| K2       | FM Antenna Filter | 470mmf, .3-1meg | 104328              | Centralab RC-471<br>Sprague AC1-1 |

## RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

| ITEM No. | RATING | REMARKS | ITEM No. | RATING | REMARKS | ITEM No. | RATING   | REMARKS |
|----------|--------|---------|----------|--------|---------|----------|----------|---------|
| R1       | 1000Ω  |         | R10      | 10K    |         | R19      | 100K     |         |
| R2       | 1meg   |         | R11      | 120Ω   |         | R20      | 390K     |         |
| R3       | 3300Ω  |         | R12      | 100K   |         | R21      | 100K     |         |
| R4       | 33K    |         | R13      | 100K   |         | R22      | 390K     |         |
| R5       | 220Ω   |         | R14      | 100K   |         | R23      | 2.2meg   |         |
| R6       | 150Ω   |         | R15      | 22meg  |         | R24      | 10meg    |         |
| R7       | 100K   |         | R16      | 22meg  |         | R25      | 1200Ω 2W |         |
| R8       | 82Ω    |         | R17      | 33K    |         |          |          |         |
| R9       | 470K   |         | R18      | 220Ω   |         |          |          |         |

## COILS (RF-IF)

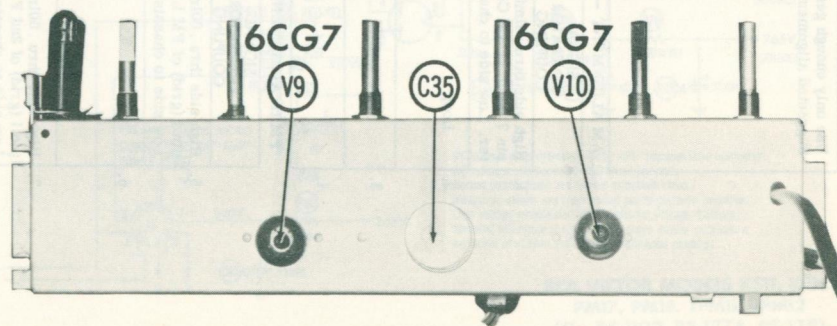
| ITEM No. | USE              | REPLACEMENT DATA    |                 |                   |                |                 |              | NOTES |
|----------|------------------|---------------------|-----------------|-------------------|----------------|-----------------|--------------|-------|
|          |                  | RCA Victor PART No. | Gramer PART No. | Meissner PART No. | Merit PART No. | Miller PART No. | Ram PART No. |       |
| L1       | 2nd FM IF Trans. | 77513               | 16-3472         | 16-3472           |                | 1461            |              |       |
| L2       | 3rd FM IF Trans. | 77512               |                 |                   |                |                 |              |       |
| L3       | Discriminator    | 77511               | 17-3494         | 17-3494           | FM-253         | 1464            |              |       |
| L4       | Loopstick        | 108411              | 14-7002         | 14-7002           | BC-418         | 705-A           |              |       |
| L5       | AM Osc. Coil     | 79057               |                 |                   | BC-393         | 71-OSC          |              |       |
| L6       | 1st AM IF Trans. | 77416               | 16-6758         | 16-6758           | BC-352         | 12-C1           | RF-1         |       |
| L7       | 2nd AM IF Trans. | 76328               | 16-6770         | 16-6770           | BC-355         | 12-C2           |              |       |

## TRANSFORMER (POWER)

| ITEM No. | RATING      |                                | REPLACEMENT DATA    |                     |                |              |                  |                     |
|----------|-------------|--------------------------------|---------------------|---------------------|----------------|--------------|------------------|---------------------|
|          | PRI.        | SEC. 1                         | RCA Victor PART No. | Halldorson PART No. | Merit PART No. | Ram PART No. | Stancor PART No. | Thordarson PART No. |
| T1       | 117V @ .34A | 115V @ .220A Tap @ 6.3V @ .45A | 104609              |                     |                |              |                  |                     |

## MISCELLANEOUS

| ITEM No. | PART NAME   | RCA Victor PART No. | NOTES                                                                                   |
|----------|-------------|---------------------|-----------------------------------------------------------------------------------------|
| M1       | FM Tuner    | 107004              | Complete, Less Tube<br>AM, 2 Gang (Ant. 10, 7-301, 5mmf, Osc. 12-129, 8mmf)<br>Selector |
| M2       | Tuning Cap. | 108407              |                                                                                         |
| M3       | Switch      | 108408              |                                                                                         |



PREAMP CHASSIS—TOP VIEW



## PREAMP PARTS LIST AND DESCRIPTIONS

### TUBES

| CBS      |                                                 |  | GENERAL ELECTRIC |  |  | RAYTHEON |                                                 |  | SYLVANIA |  |  |
|----------|-------------------------------------------------|--|------------------|--|--|----------|-------------------------------------------------|--|----------|--|--|
| ITEM No. | USE                                             |  | TYPE             |  |  | ITEM No. | USE                                             |  | TYPE     |  |  |
| V9       | Left Channel Preamp. -<br>Right Channel Preamp. |  | 6CG7             |  |  | V10      | Left Channel AF Amp. -<br>Right Channel AF Amp. |  | 6CG7     |  |  |

### ELECTROLYTIC CAPACITORS

| ITEM No. | RATING |       | REPLACEMENT DATA    |                  |                           |                  |                  |                  | NOTES |
|----------|--------|-------|---------------------|------------------|---------------------------|------------------|------------------|------------------|-------|
|          | CAP.   | VOLT. | RCA Victor PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | PYRAMID PART No. | SPRAGUE PART No. |       |
| C35A     | 50     | 10    | 108497              | AFH2-06          | B0080                     | WP202.1          | TMD-5            | TVL-2320         |       |
| B        | 50     | 10    |                     |                  |                           |                  |                  |                  |       |

### FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

| ITEM No. | RATING |      | REMARKS | REPLACEMENT DATA |                    |                           |                  |                  |                  |
|----------|--------|------|---------|------------------|--------------------|---------------------------|------------------|------------------|------------------|
|          |        |      |         | AEROVOX PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | ELMENDO PART No. | MALLORY PART No. | SPRAGUE PART No. |
| C36      | .047   | 400V |         | P488N-047        | DD-503             | CUB4S47                   | 4DP-3-473        | GEM-4147         | 4TM-847          |
| C37      | .022   | 200V |         | P288N-022        | DD-203             | CUB4S22                   | 4DP-2-223        | GEM-4122         | 2TM-S22          |
| C38      | .047   | 200V |         | P288N-047        | DD-503             | CUB2S47                   | 4DP-3-473        | GEM-4147         | 2TM-S47          |
| C39      | .047   | 400V |         | P488N-047        | DD-503             | CUB4S47                   | 4DP-3-473        | GEM-4147         | 4TM-S47          |
| C40      | .047   | 400V |         | P488N-047        | DD-503             | CUB4S47                   | 4DP-3-473        | GEM-4147         | 4TM-S47          |
| C41      | .022   | 200V |         | P288N-022        | DD-203             | CUB4S22                   | 4DP-2-223        | GEM-4122         | 2TM-S22          |
| C42      | .047   | 200V |         | P288N-047        | DD-503             | CUB4S47                   | 4DP-3-473        | GEM-4147         | 2TM-S47          |
| C43      | .047   | 400V |         | P488N-047        | DD-503             | CUB4S47                   | 4DP-3-473        | GEM-4147         | 4TM-S47          |

### CONTROLS

| ITEM No. | RATING     |       | REPLACEMENT DATA    |                    |                    |                  |                  | INSTALLATION NOTES                                                    |
|----------|------------|-------|---------------------|--------------------|--------------------|------------------|------------------|-----------------------------------------------------------------------|
|          | RESISTANCE | WATTS | RCA Victor PART No. | CENTRALAB PART No. | CLAROSTAT PART No. | CTS-IRC PART No. | MALLORY PART No. |                                                                       |
| R26A     | 500K *     |       | 108485              |                    |                    |                  |                  | Loudness, Right Channel<br>Loudness, Left Channel<br>Push-Pull Off-On |
| B        | 500K *     |       |                     |                    |                    |                  |                  |                                                                       |
| C        | Switch     |       |                     |                    |                    |                  |                  |                                                                       |
| R27A     | 500K       |       | 108476              | B-60               |                    |                  |                  | Bass, Right Channel                                                   |
| B        | 500K       |       |                     | SR-60              |                    |                  |                  | Bass, Left Channel                                                    |
| C        | Bushing    |       |                     | AK-31              |                    |                  |                  |                                                                       |
| R28A     | 500K       |       | 108475              | B-59               |                    |                  |                  | Treble, Right Channel                                                 |
| B        | 500K       |       |                     | SR-59              |                    |                  |                  | Treble, Left Channel                                                  |
| C        | Bushing    |       |                     | AK-31              |                    |                  |                  |                                                                       |
| R29A     | 90Ω        | 2(WW) | 108493              |                    |                    |                  |                  | Balance Indicator Control                                             |
| B        | 1meg       |       |                     |                    |                    |                  |                  | Balance                                                               |

\* Taps @ 84K & 168K.

### RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

| ITEM No. | RATING | REMARKS | ITEM No. | RATING | REMARKS | ITEM No. | RATING | REMARKS |
|----------|--------|---------|----------|--------|---------|----------|--------|---------|
| R30      | 8200Ω  |         | R37      | 8200Ω  |         | R44      | 100K   |         |
| R31      | 100K   |         | R38      | 47K    |         | R45      | 330K   |         |
| R32      | 2.7meg |         | R39      | 100K   |         | R46      | 22K    |         |
| R33      | 100K   |         | R40      | 1500Ω  |         | R47      | 8200Ω  |         |
| R34      | 1500Ω  |         | R41      | 1meg   |         | R48      | 100K   |         |
| R35      | 22K    |         | R42      | 8200Ω  |         | R49      | 47K    |         |
| R36      | 330K   |         | R43      | 2.7meg |         | R50      | 100K   |         |

### COMPONENT COMBINATIONS

| ITEM No. | USE        | DESCRIPTION                                   | RCA Victor PART No. | REPLACEMENT DATA |
|----------|------------|-----------------------------------------------|---------------------|------------------|
| K3       | Tone Comp. | 470mmf, 1000mmf, 4700mmf, 10000mmf, 22K, 220K | 106457              | Sprague TC-13    |
| K4       | Tone Comp. | 470mmf, 1000mmf, 4700mmf, 10000mmf, 22K, 220K | 106457              | Sprague TC-13    |

### PHONO CARTRIDGE

| ITEM No. | RCA Victor PART No. | REPLACEMENT DATA |        | ELECTRO-VOICE PART No. | JENSEN PART No. |        | SONOTONE PART No. |          |
|----------|---------------------|------------------|--------|------------------------|-----------------|--------|-------------------|----------|
|          |                     | CARTRIDGE        | NEEDLE |                        | CARTRIDGE       | NEEDLE | CARTRIDGE         | NEEDLE   |
| M4       | 106960A             | 13TBX            |        | 26S                    | S3-3            | D1-1   | 8TA4-SD           | N-8TA-SD |

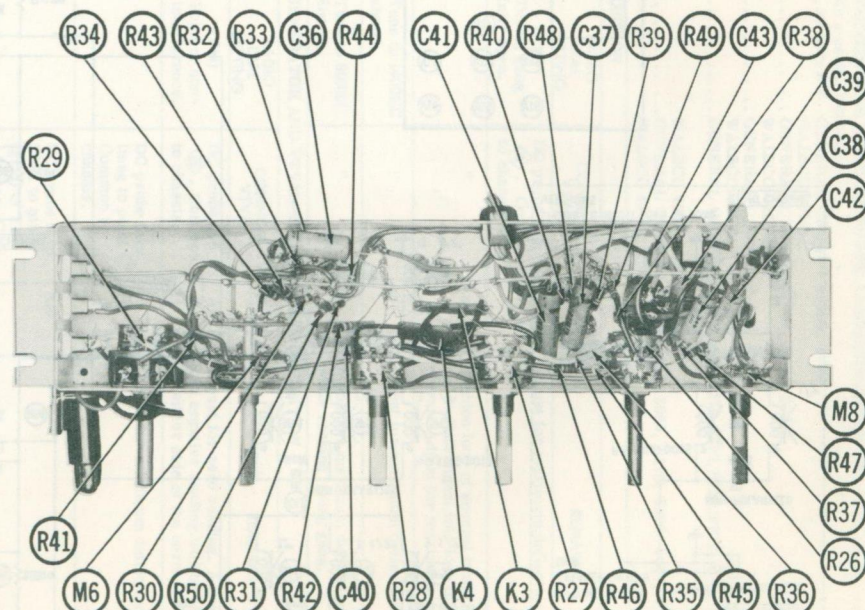
### PHONO NEEDLE

(FOR REPLACEMENT IN ORIGINAL EQUIPMENT CARTRIDGE)

| ITEM No. | RCA Victor PART No. | REPLACEMENT DATA              |  | JENSEN PART No.                         | REMARKS           |
|----------|---------------------|-------------------------------|--|-----------------------------------------|-------------------|
|          |                     | CLEVITE WALCO PART No.        |  |                                         |                   |
| M5       | 108215              | W-103STD5 † or<br>W-103STSS † |  | M-77X † or<br>M-77XSD † or<br>M-77XDD † | † Jewel † Diamond |

### MISCELLANEOUS

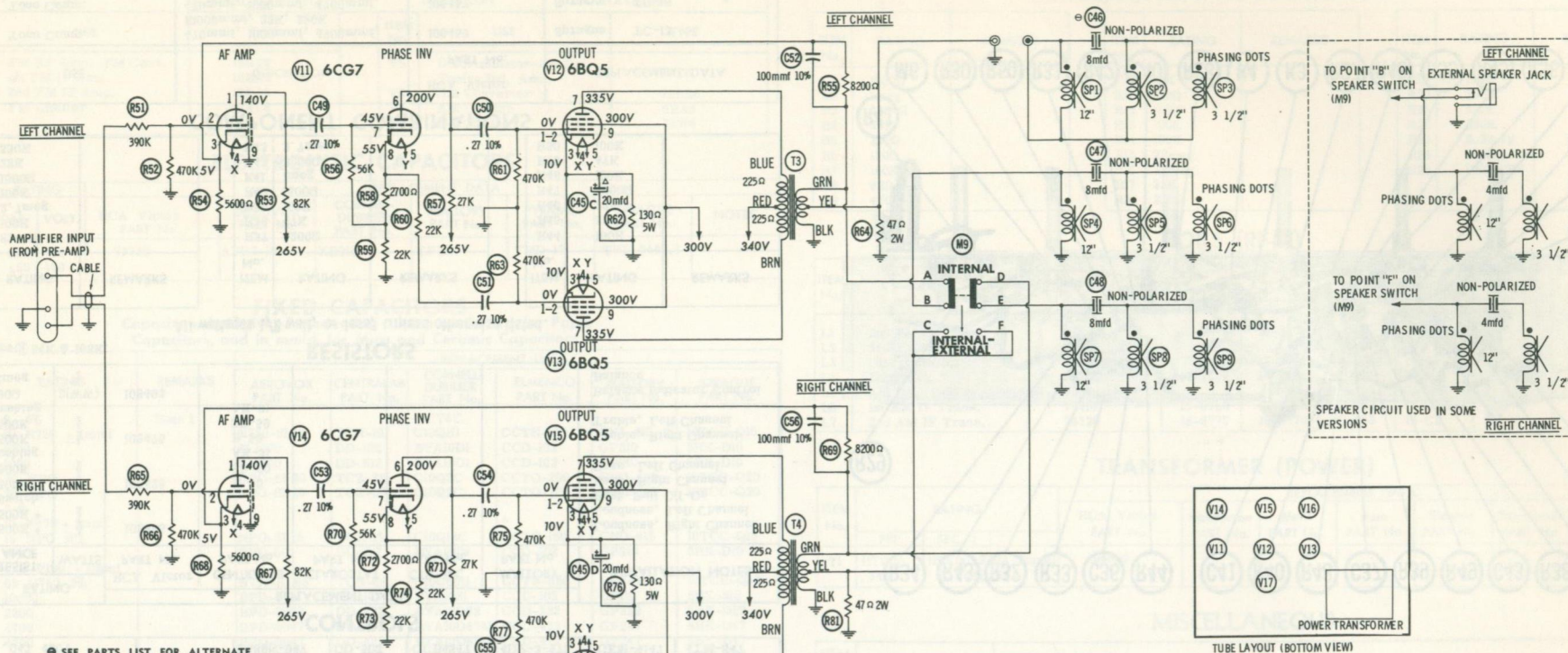
| ITEM No. | PART NAME | RCA Victor PART No. | NOTES                    |
|----------|-----------|---------------------|--------------------------|
| M6       | Switch    | 108473              | Function Selector        |
| M7       | Switch    | 108457              | Off-On (Part of Changer) |
| M8       | Switch    | 108494              | Speaker Reversing        |



PREAMP CHASSIS—BOTTOM VIEW

(Ch. RC-1192, RS-177A, RS-179)  
PM17, PM18, TPM11, TPM12  
RCA VICTOR MODELS KS11, KS12,





SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

RESISTANCE READINGS (CONT.)

| ITEM | TUBE  | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7  | Pin 8 | Pin 9   |
|------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|
| V11  | 6CG7  | ††85K | 470K  | 3800Ω | .1Ω   | .1Ω   | ††30K | 78K    | 25K   | 0Ω      |
| V12  | 6BQ5  | 470K  | 470K  | 130Ω  | .1Ω   | .1Ω   | NC    | ††225Ω | NC    | ††1200Ω |
| V13  | 6BQ5  | 470K  | 470K  | 130Ω  | .1Ω   | .1Ω   | NC    | ††225Ω | NC    | ††1200Ω |
| V14  | 6CG7  | ††85K | 470K  | 3800Ω | .1Ω   | .1Ω   | ††30K | 78K    | 25K   | 0Ω      |
| V15  | 6BQ5  | 470K  | 470K  | 130Ω  | .1Ω   | .1Ω   | NC    | ††225Ω | NC    | ††1200Ω |
| V16  | 6BQ5  | 470K  | 470K  | 130Ω  | .1Ω   | .1Ω   | NC    | ††225Ω | NC    | ††1200Ω |
| V17  | 5A54A | NC    | †     | NC    | 40Ω   | NC    | 45Ω   | NC     | †     |         |

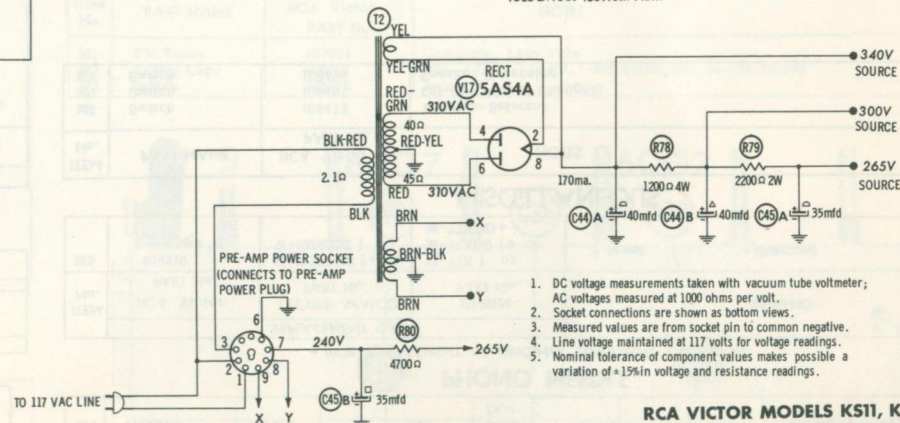
† THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.

†† MEASURED FROM PIN 8 OF V17.

NC NO CONNECTION

A PHOTOFAC STANDARD NOTATION SCHEMATIC

©Howard W. Sams & Co., Inc. 1960



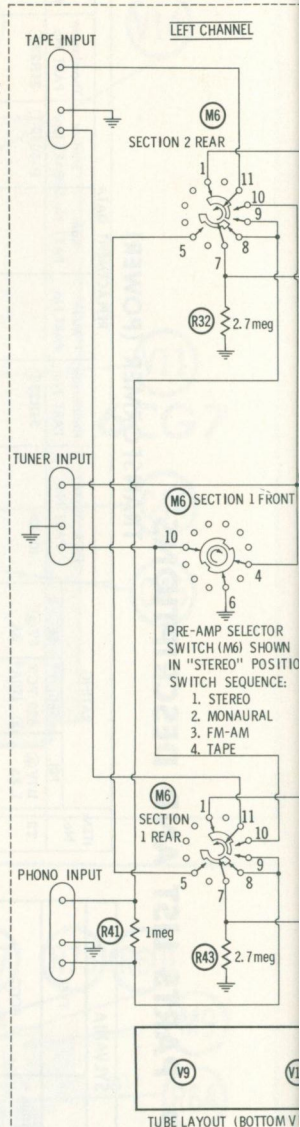
- DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common negative.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance of component values makes possible a variation of ±15% in voltage and resistance readings.

RCA VICTOR MODELS KS11, KS12,  
PM17, PM18, TPM11, TPM12  
(Ch. RC-1192, RS-177A, RS-179)

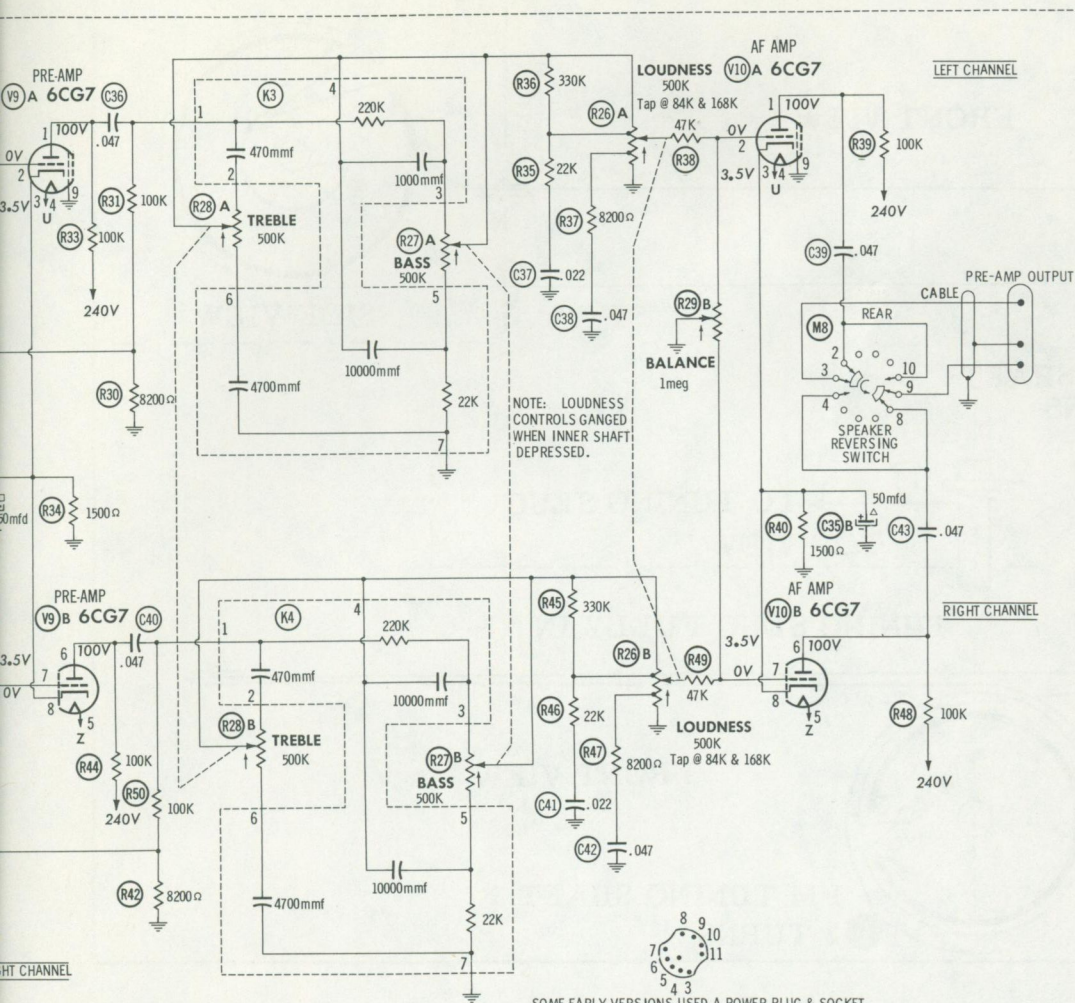




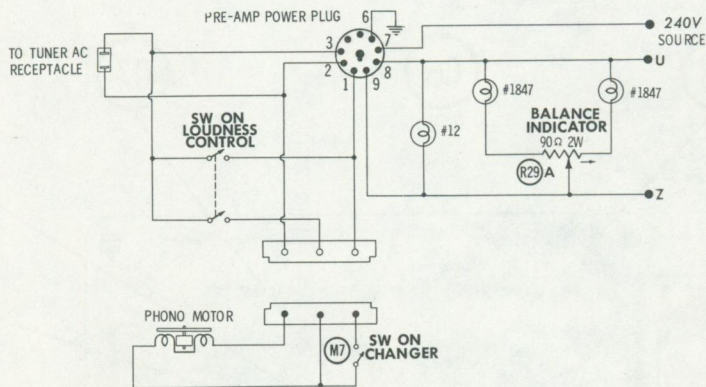








SOME EARLY VERSIONS USED A POWER PLUG & SOCKET OF THE TYPE SHOWN HERE.



RCA VICTOR MODELS KS11, KS12, PM17, PM18, TPM11, TPM12 (Ch. RC-1192, RS-177A, RS-179)



# DIAL CORD STRINGING

AM TUNING GANG FULLY CLOSED

FRONT VIEW

SIDE VIEW

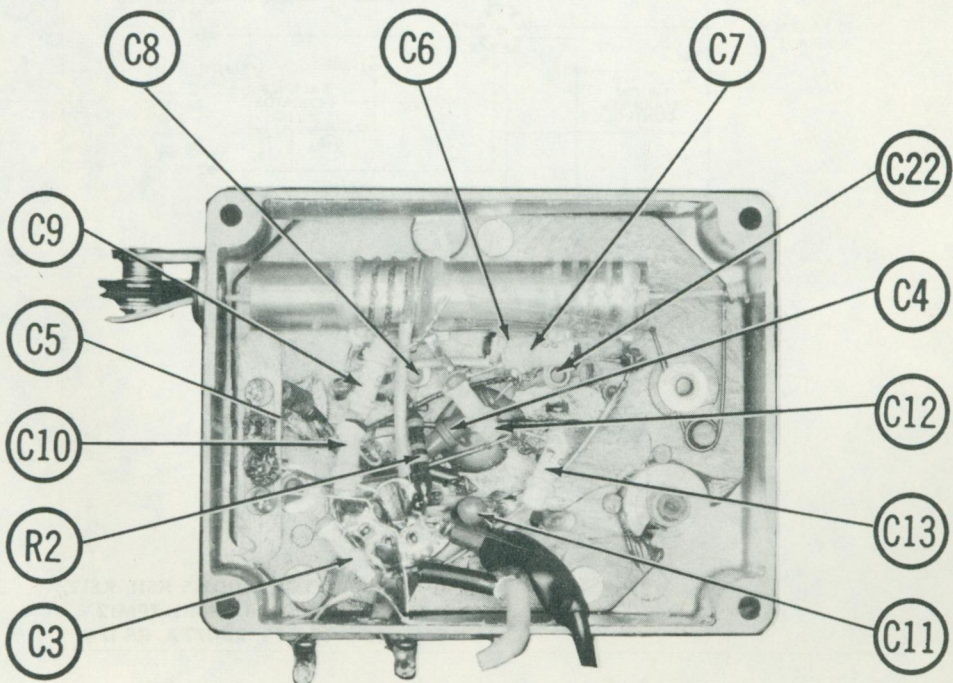
AM TUNING SHAFT  
3 1/2 TURNS

TO TUNING SLUG  
TOP VIEW

TUNING SLUG FULLY IN

FRONT VIEW

FM TUNING SHAFT  
3 TURNS



FM RF SUBCHASSIS



**PAGE 11**

## ELECTROLYTIC CAPACITORS

| ITEM No. | RATING |       | REPLACEMENT DATA    |                  |                           |                  |                  |                  | NOTES    |
|----------|--------|-------|---------------------|------------------|---------------------------|------------------|------------------|------------------|----------|
|          | CAP.   | VOLT. | RCA Victor Part No. | AEROVOX Part No. | CORNELL-DUBILIER Part No. | MALLORY Part No. | PYRAMID Part No. | SPRAGUE Part No. |          |
| C44A     | ▲40    | 450   | 102913              | AFH2-57          | B0450                     | FP238            | TMD-54           | TVL-2764         | * Note 1 |
| B        | ▲40    | 450   |                     |                  |                           |                  |                  |                  |          |
| C45A     | ▲35    | 400   | 108423              | AFH4-79          | D0663                     | FP431.2          | TMQ-87           | TVL-4737         |          |
| B        | ■35    | 400   |                     |                  |                           |                  |                  |                  |          |
| C        | ▲20    | 25    |                     |                  |                           |                  |                  |                  |          |
| D        | 20     | 25    |                     |                  |                           |                  |                  |                  |          |
| C46      | 8      | 10NP  | 100509              | PRS-AC6200       | BBR16-90 ↑                | TCN108           |                  | TVANS-1112 *     |          |
| C47      | 8      | 10NP  | 100509              | PRS-AC6200       | BBR16-90 ↑                | TCN108           |                  | TVANS-1112 *     |          |
| C48      | 8      | 10NP  | 100509              | PRS-AC6200       | BBR16-90 ↑                | TCN108           |                  | TVANS-1112 *     |          |

**FIXED CAPACITORS**  
Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

## RESISTORS

| ITEM No. | RATING | REMARKS |
|----------|--------|---------|
| R51      | 390K   |         |
| R52      | 470K   |         |
| R53      | 82K    |         |
| R54      | 5600Ω  |         |
| R55      | 8200Ω  |         |
| R56      | 56K    |         |
| R57      | 27K    |         |
| R58      | 2700Ω  |         |
| R59      | 22K    |         |
| R60      | 22K    |         |
| R61      | 470K   |         |

| ITEM No. | RATING   | REMARKS |
|----------|----------|---------|
| R73      | 22K      |         |
| R74      | 22K      |         |
| R75      | 470K     |         |
| R76      | 130Ω 5W  |         |
| R77      | 470K     |         |
| R78      | 1200Ω 4W |         |
| R79      | 2200Ω 2W |         |
| R80      | 4700Ω    |         |
| R81      | 47Ω 2W   |         |

### TRANSFORMER (AUDIO OUTPUT)

| ITEM No. | IMPEDANCE |             | REPLACEMENT DATA    |                     |                |              |                  |                     |                | NOTES |
|----------|-----------|-------------|---------------------|---------------------|----------------|--------------|------------------|---------------------|----------------|-------|
|          | PRI.      | SEC.        | RCA Victor PART No. | Halldorson PART No. | Merit PART No. | Ram PART No. | Stancor PART No. | Thordarson PART No. | Triad PART No. |       |
| T3       | 6600Ω CT  | 8Ω Tap @ 4Ω | 108421              |                     | A-3028         |              |                  |                     |                |       |
| T4       | 6600Ω CT  | 8Ω Tap @ 4Ω | 108421              |                     | A-3028         |              |                  |                     |                |       |

## MISCELLANEOUS

## CABINETS & CABINET PARTS

| NAME         | PART NO. | DESCRIPTION                      |
|--------------|----------|----------------------------------|
| Knob         | 108505   | Tuning FM & AM                   |
| Knob         | 108506   | Loudness, Bass, Treble, Function |
| Knob         | 108559   | Stereo Balance                   |
| Dial Pointer | 108413   | FM                               |
| Dial Pointer | 108414   | AM                               |

|                                                |                                                                                                |
|------------------------------------------------|------------------------------------------------------------------------------------------------|
| General-use Unshielded Hook-up Wire .....      | Use BELDEN No. 8530 (Solid) Available in Ten Colors<br>8524 (Stranded) Available in Ten Colors |
| Power Cord .....                               | Use BELDEN No. 1765-B (6 Ft. Length)<br>1725-K (7½ Ft. Length)                                 |
| Low-Loss Shielded Lead (Interconnecting) ..... | Use BELDEN No. 8401                                                                            |
| Phono Pick-up Arm Cable .....                  | Use BELDEN No. 8430 (Two Conductor - Twisted)                                                  |



