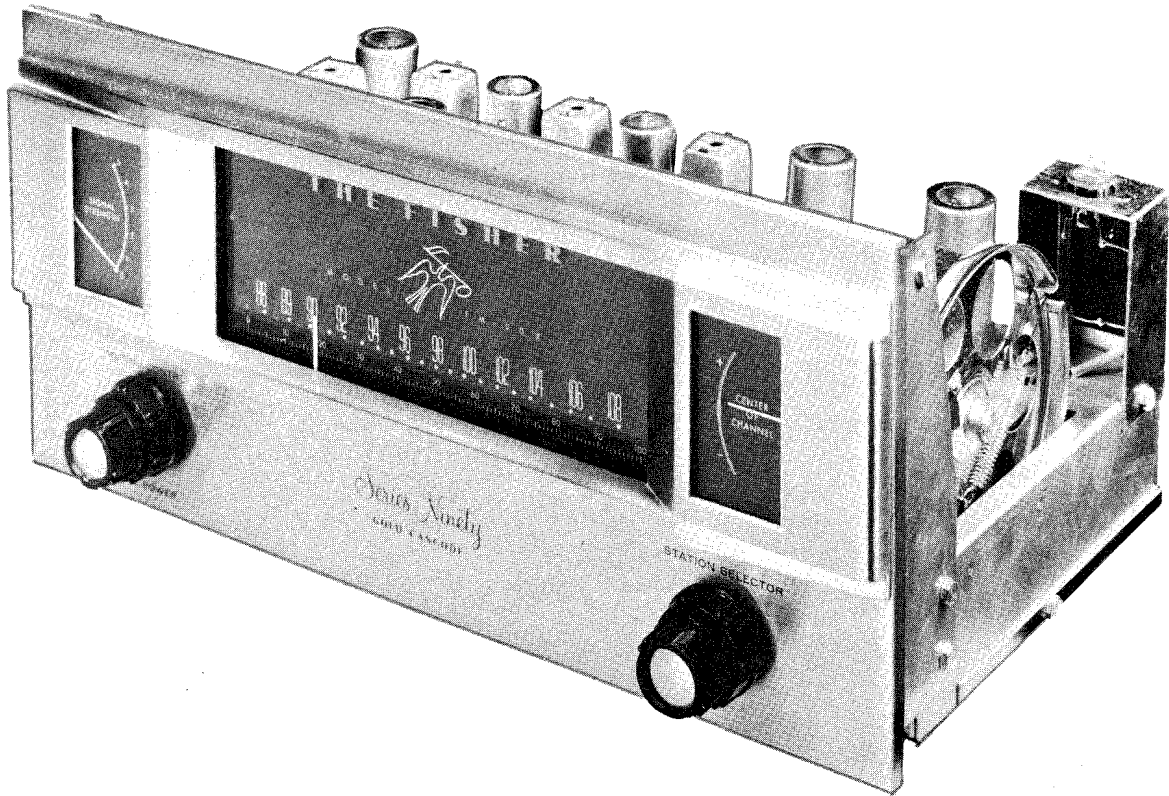


PHOTOFACT\* Folder



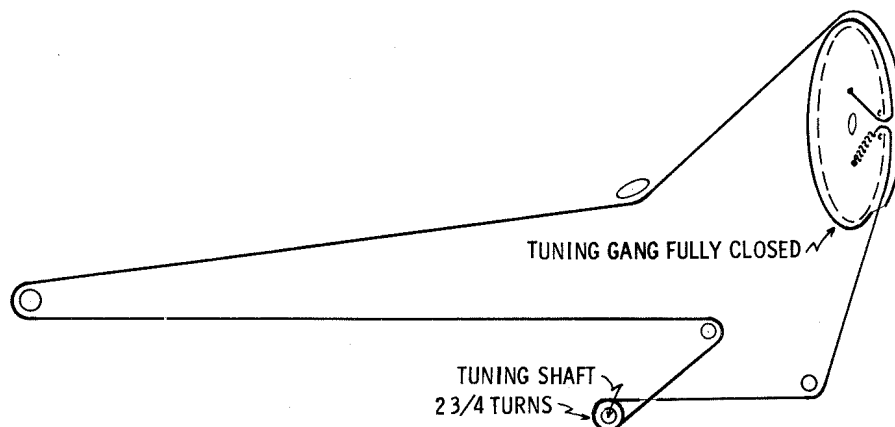
FISHER  
MODEL FM-90X

FISHER  
MODEL FM-90X



|                        |   |        |                                    |
|------------------------|---|--------|------------------------------------|
| TRADE NAME             | Fisher Model FM-90X   |        |                                    |
| MANUFACTURER           | Fisher Radio Corp., 21-21 44th Drive, Long Island City 1, N. Y.   |        |                                    |
| TYPE SET               | AC Operated FM Tuner  |        |                                    |
| TUBES (Nine)           | Types V50064, RF Amplifier, 6BK7A Mixer-Osc., 6BH6 1st IF Amplifier, 6BH6 2nd IF Amplifier, 6AM8 3rd IF Amp.-Squelch Diode, 12AX7 Squelch Amp.-AF Amp., 6BH6 Limiter, 12AU7 AF Amp. - Meter Amp., 6X4 Rectifier |        |                                    |
| POWER SUPPLY           | 105-125 Volts AC - 50/60 Cycles   | RATING | .46 Amp. @ 117 Volts AC (46 Watts) |
| TUNING RANGE—FREQ.MOD. | 88 - 108MC  |        |                                    |

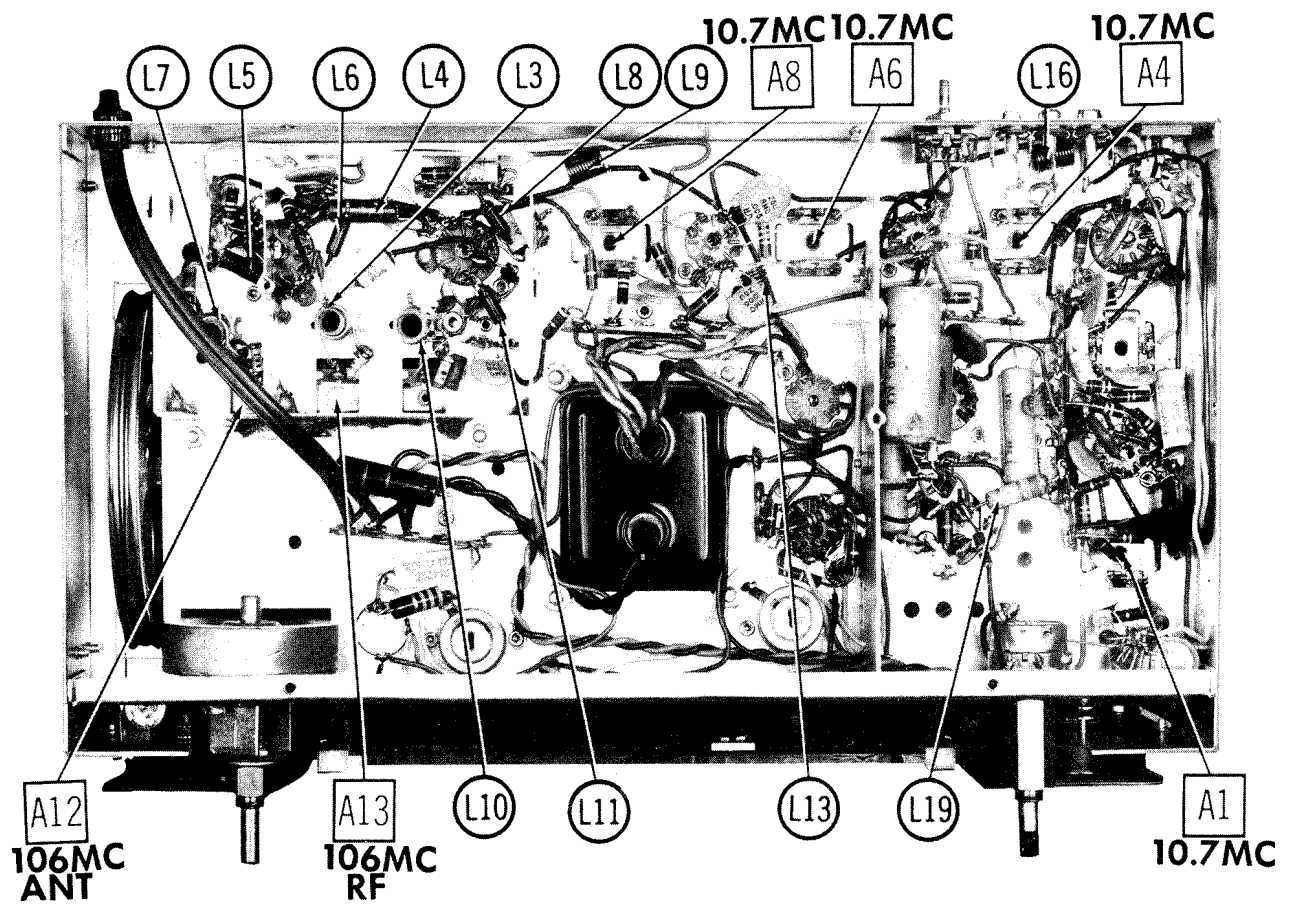
FISHER  
MODEL FM-90X



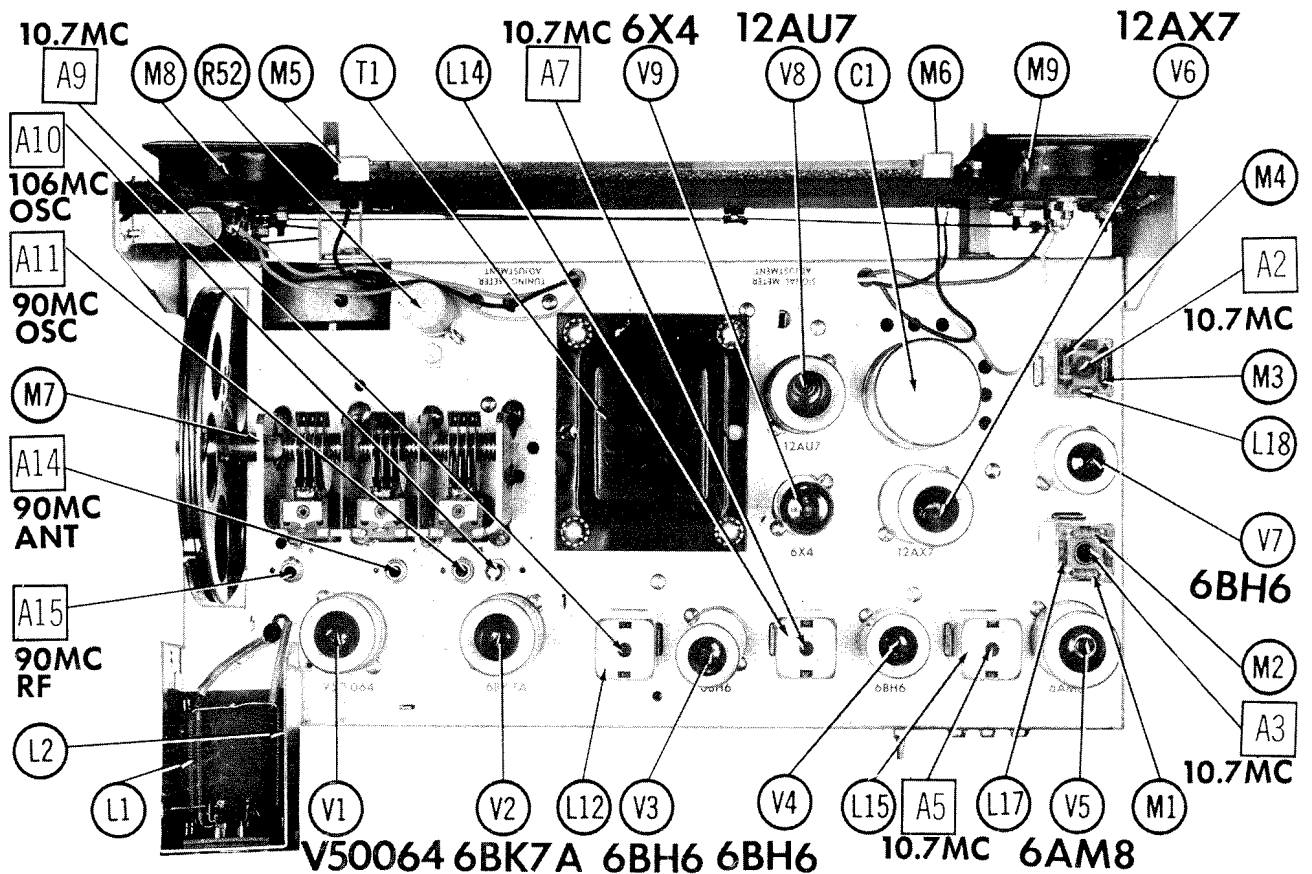
HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of H382

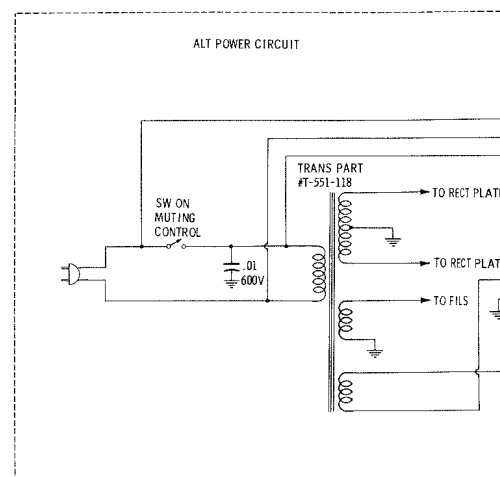
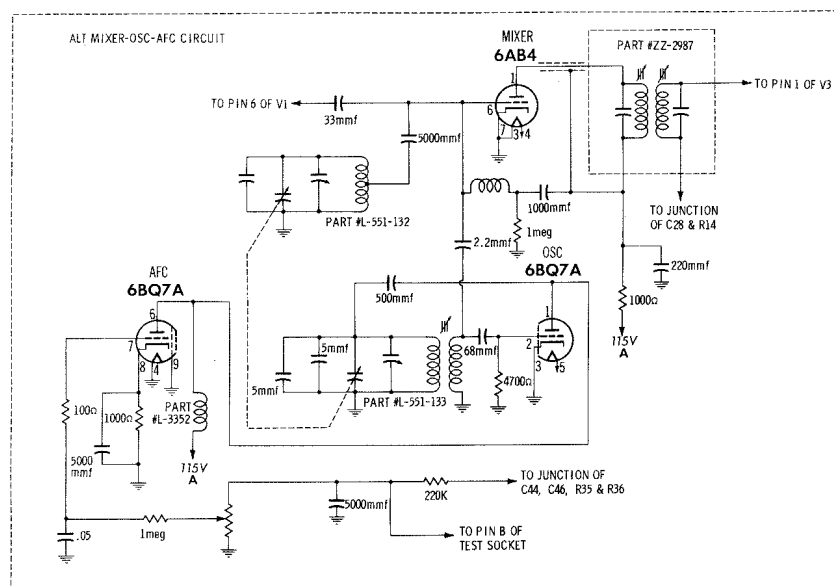
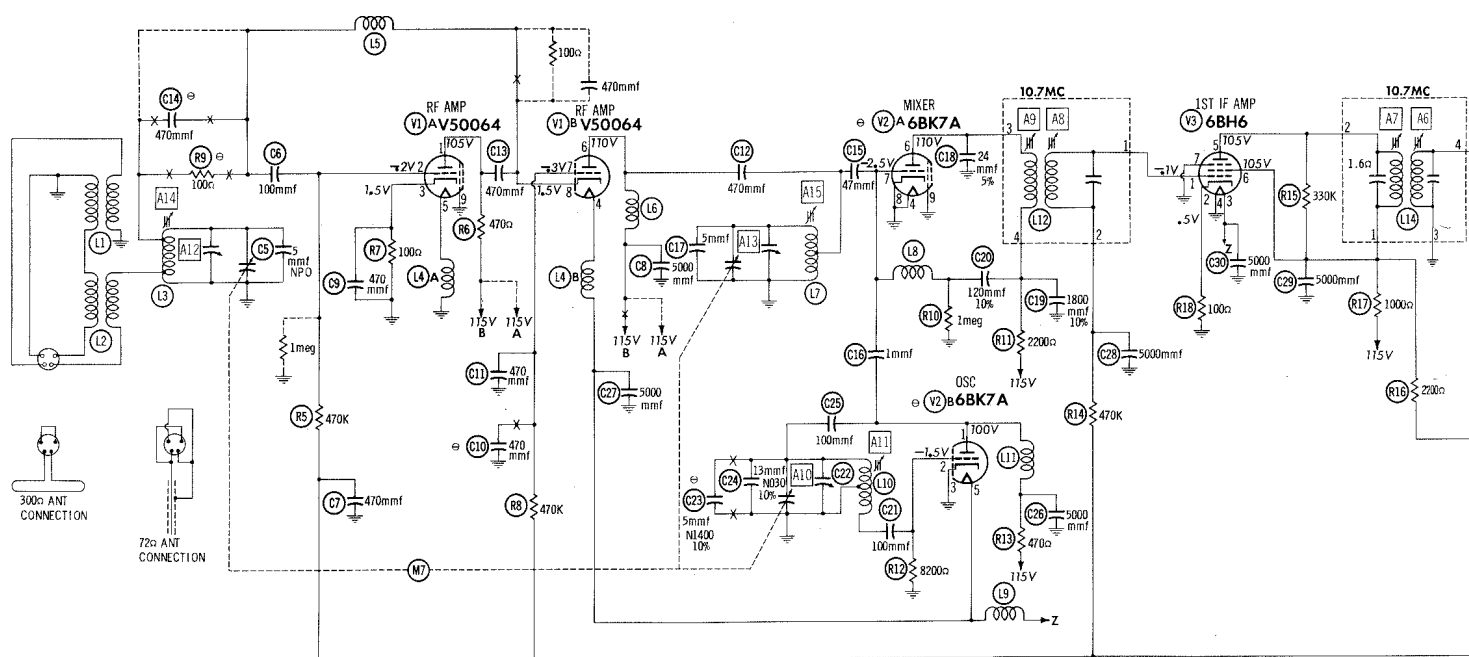
the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1958 Howard W. Sams & Co., Inc., Indianapolis 5, Indiana. Printed in U.S. of America



CHASSIS BOTTOM VIEW- INDUCTOR AND ALIGNMENT IDENTIFICATION



CHASSIS TOP VIEW



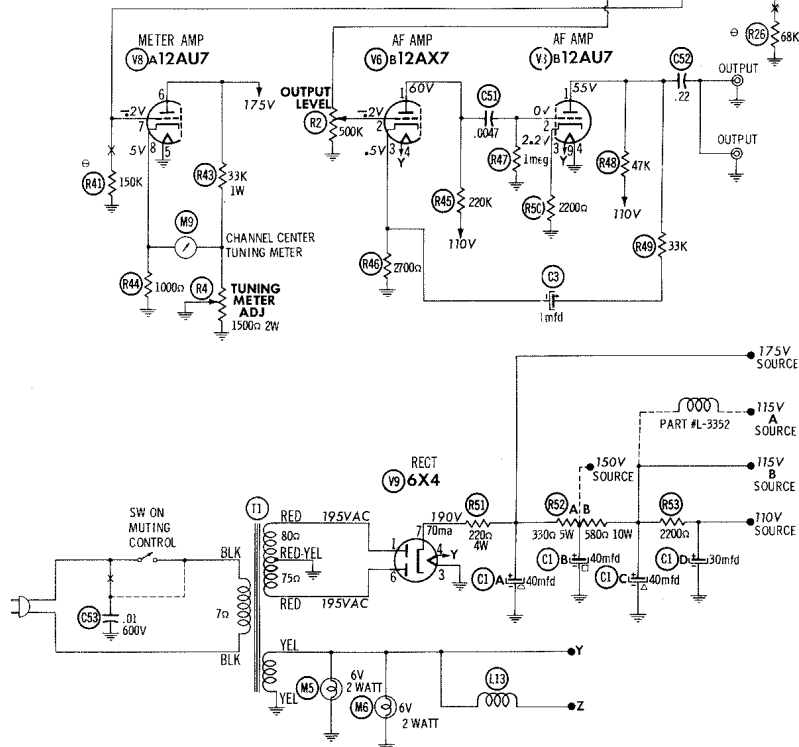
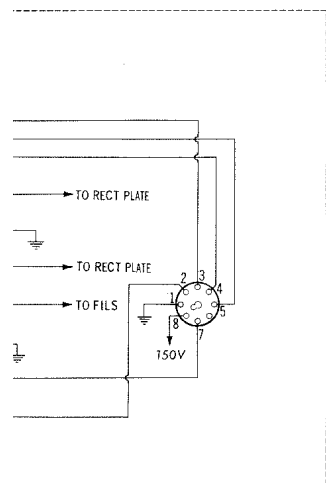
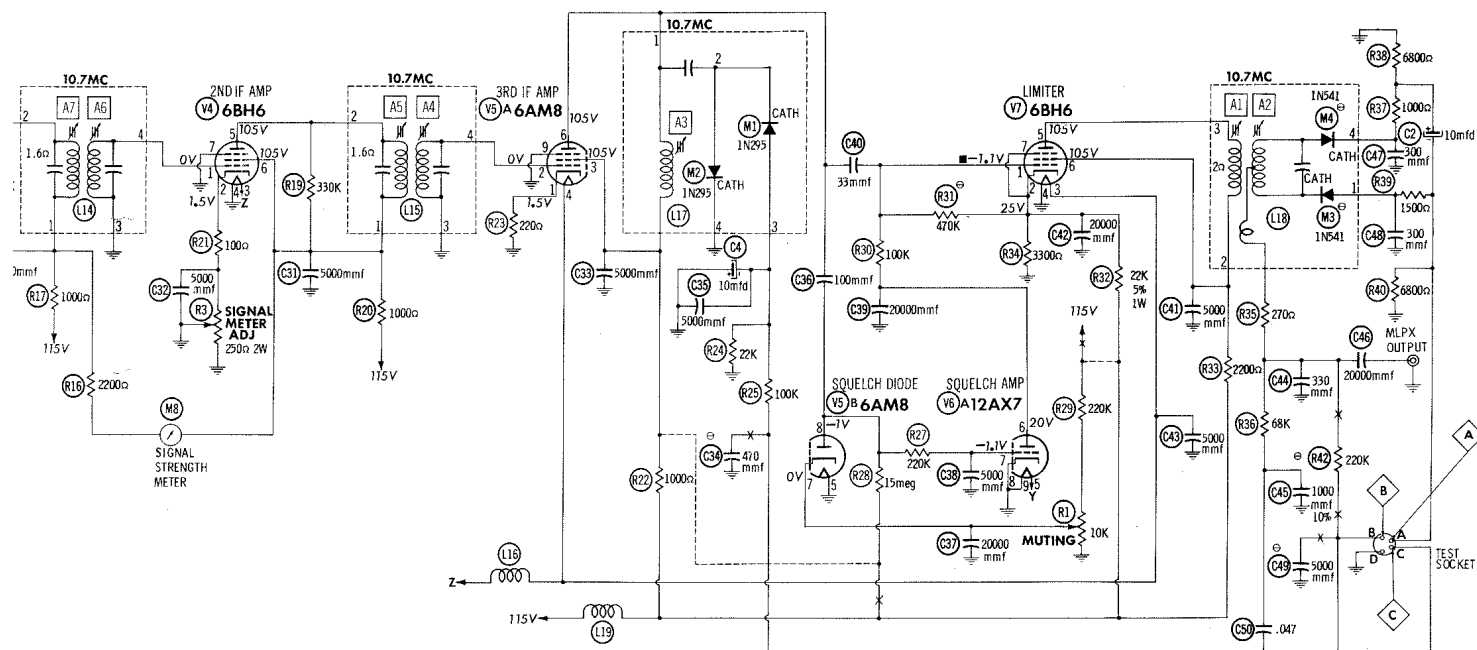
1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of  $\pm 15\%$  in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION  
DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
Howard W. Sams & Co., Inc. 1958

| ITEM | TUBE   | Pin 1            | Pin           |
|------|--------|------------------|---------------|
| V1   | V50064 | $\pm 1700\Omega$ | 330K          |
| V2   | 6BK7A  | $\pm 1700\Omega$ | 8200 $\Omega$ |
| V3   | 6BH6   | 530K             | 100 $\Omega$  |
| V4   | 6BH6   | .4 $\Omega$      | 370 $\Omega$  |
| V5   | 6AM8   | 220 $\Omega$     | .4 $\Omega$   |
| V6   | 12AX7  | $\pm 220K$       | 240K          |
| V7   | 6BH6   | 470K             | 3300 $\Omega$ |
| V8   | 12AU7  | $\pm 51K$        | 1meg          |
| V9   | 6X4    | 80 $\Omega$      | NC            |

† MEASURED FROM P  
■ MEASURED FROM P  
NC NO CONNECTION



| RESISTANCE READINGS |        |       |        |       |        |        |          |       |       |
|---------------------|--------|-------|--------|-------|--------|--------|----------|-------|-------|
| TUBE                | Pin 1  | Pin 2 | Pin 3  | Pin 4 | Pin 5  | Pin 6  | Pin 7    | Pin 8 | Pin 9 |
| 50064               | †1700Ω | 530K  | 100Ω   | .1Ω   | .1Ω    | †1200Ω | 530K     | 100Ω  | 0Ω    |
| BK7A                | †1700Ω | 820Ω  | 0Ω     | .1Ω   | .1Ω    | †3300Ω | 1meg     | 0Ω    | 0Ω    |
| BH6                 | 530K   | 100Ω  | .1Ω    | 0Ω    | †2100Ω | †2100Ω | 0Ω       |       |       |
| BH6                 | .4Ω    | 37Ω   | .1Ω    | 0Ω    | †2100Ω | †2100Ω | 0Ω       |       |       |
| AM8                 | 220Ω   | .4Ω   | †2100Ω | .1Ω   | 0Ω     | †2100Ω | 0Ω       | 15meg | 0Ω    |
| 2AX7                | †220K  | 240K  | 2700Ω  | .1Ω   | .1Ω    | 570K   | 15meg    | 0Ω    | 0Ω    |
| BH6                 | 470K   | 330Ω  | .1Ω    | 0Ω    | †3300Ω | †3300Ω | 3300Ω    |       |       |
| 2AU7                | †151K  | 1meg  | 2200Ω  | 0Ω    | 0Ω     | †220Ω  | 90K      | 600Ω  | .1Ω   |
| X4                  | 80Ω    | NC    | 0Ω     | .1Ω   | NC     | 75Ω    | 20K(Min) |       |       |

† MEASURED FROM PIN 7 OF V9  
 ■ MEASURED FROM PIN 2 OF V7  
 NC NO CONNECTION

# ALIGNMENT INSTRUCTIONS

## ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.  
Set muting control to MINIMUM.  
With tuning capacitor fully closed, set dial pointer to zero mark on logging scale.

### IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING   | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING        | CONNECT VTVM   | ADJUST                     | REMARKS  |
|---------------|---|----------------------------|---------------------------|--|----------------------------|--|
| 1. .01mfd     | High side to pin 1 (grid) of 6BH6 (V7).<br>Low side to chassis.             | 10.7MC (Unmod)             | Point of non-interference | DC probe to point <b>(A)</b> .<br>Common to chassis. | A1                         | Adjust for maximum deflection.   |
| 2. "          | "   | "                          | "                         | DC probe to point <b>(B)</b> .<br>Common to chassis. | A2                         | Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. |
| 3.            | High side to un-grounded tube shield on 6BK7A (V2).<br>Low side to chassis. | "                          | "                         | DC probe to point <b>(C)</b> .<br>Common to chassis. | A3, A4, A5, A6, A7, A8, A9 | Adjust for maximum deflection.   |

### IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

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

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING                                       | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING        | CONNECT SCOPE  | ADJUST                     | REMARKS   |
|---------------|---|----------------------------|---------------------------|--|----------------------------|---|
| 1. .01mfd     | High side to pin 1 (grid) of 6BH6 (V7).<br>Low side to chassis. | 10.7MC (450KC Swp)         | Point of non-interference | Vert. Amp. to point <b>(A)</b> .<br>Low side to chassis. | A1                         | Disconnect stabilizing capacitor (C2). Adjust for curve of maximum amplitude and symmetry similar to Fig. 1.  |
| 2. "          | "   | "                          | "                         | Vert. Amp. to point <b>(B)</b> .<br>Low side to chassis. | A2                         | Reconnect C2. Adjust so that 10.7MC occurs at center of crossover lines similar to Fig. 2. SLIGHTLY retouch A1 for maximum amplitude and straightness of crossover lines. |
| 3.            | High side to un-grounded shield (V2).<br>Low side to chassis.   | "                          | "                         | Vert. Amp. to point <b>(C)</b> .<br>Low side to chassis. | A3, A4, A5, A6, A7, A8, A9 | Adjust for curve of maximum amplitude and symmetry similar to Fig. 1.   |

### RF ALIGNMENT

| DUMMY ANTENNA                | SIGNAL GENERATOR COUPLING                | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING | CONNECT VTVM   | ADJUST   | REMARKS   |
|------------------------------|--|----------------------------|--------------------|--|----------|---|
| 4. Two 120Ω Carbon Resistors | To antenna leads with 120Ω in each side. | 106MC (Unmod)              | 106MC              | DC probe to point <b>(C)</b> .<br>Common to chassis. | A10      | Adjust for maximum deflection.                        |
| 5. "                         | "  | 90MC                       | 90MC               | "  | A11      | "   |
| 6. "                         | "  | 106MC                      | 106MC              | "  | A12, A13 | "   |
| 7. "                         | "  | 90MC                       | 90MC               | "  | A14, A15 | Adjust for maximum deflection. Repeat steps 4 thru 7. |

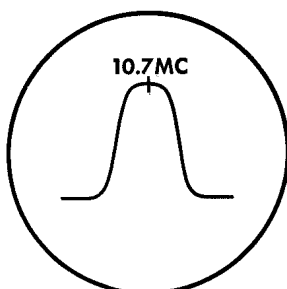


FIG. 1

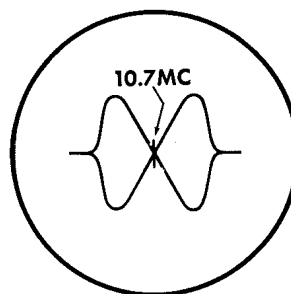
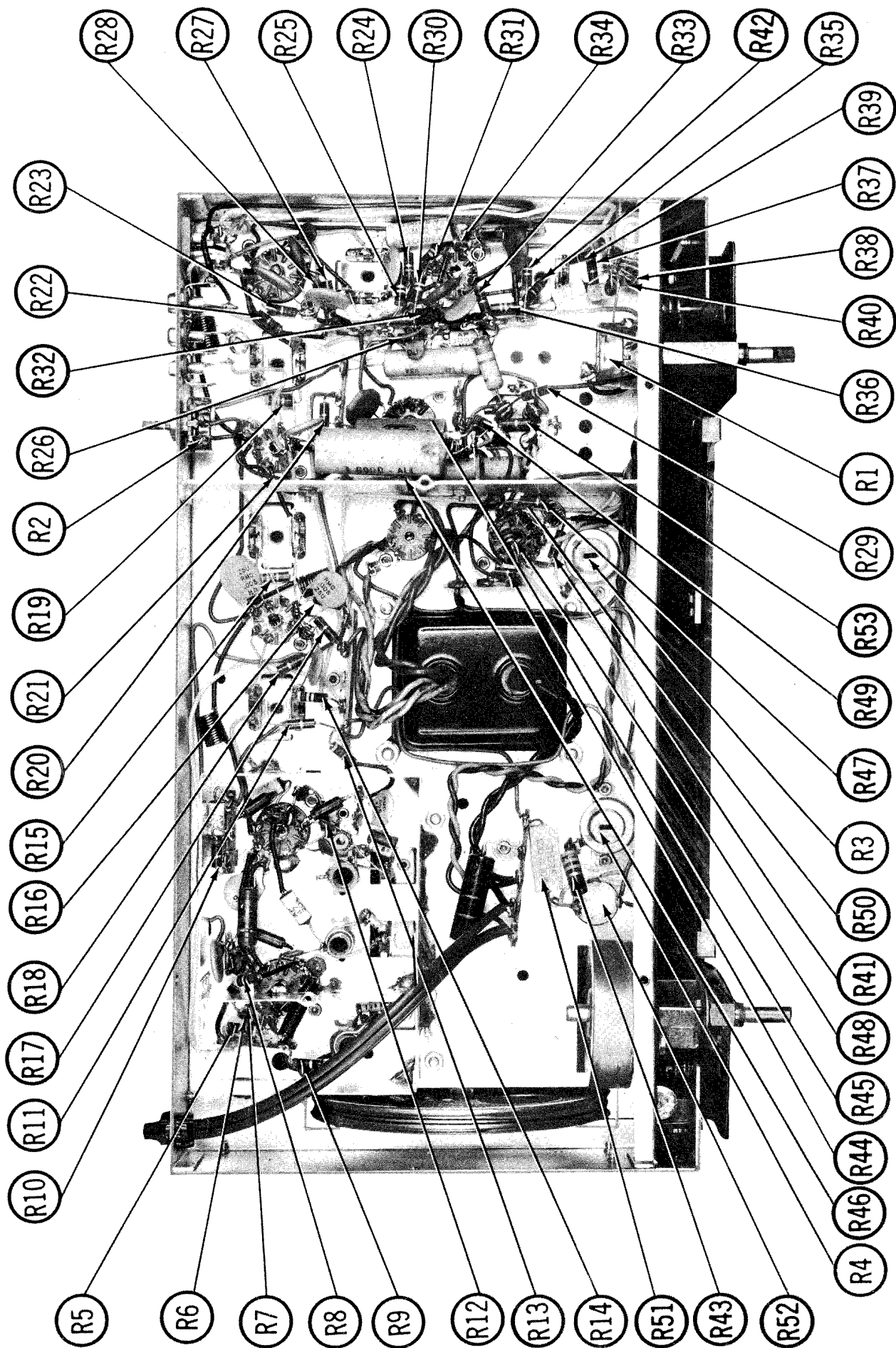
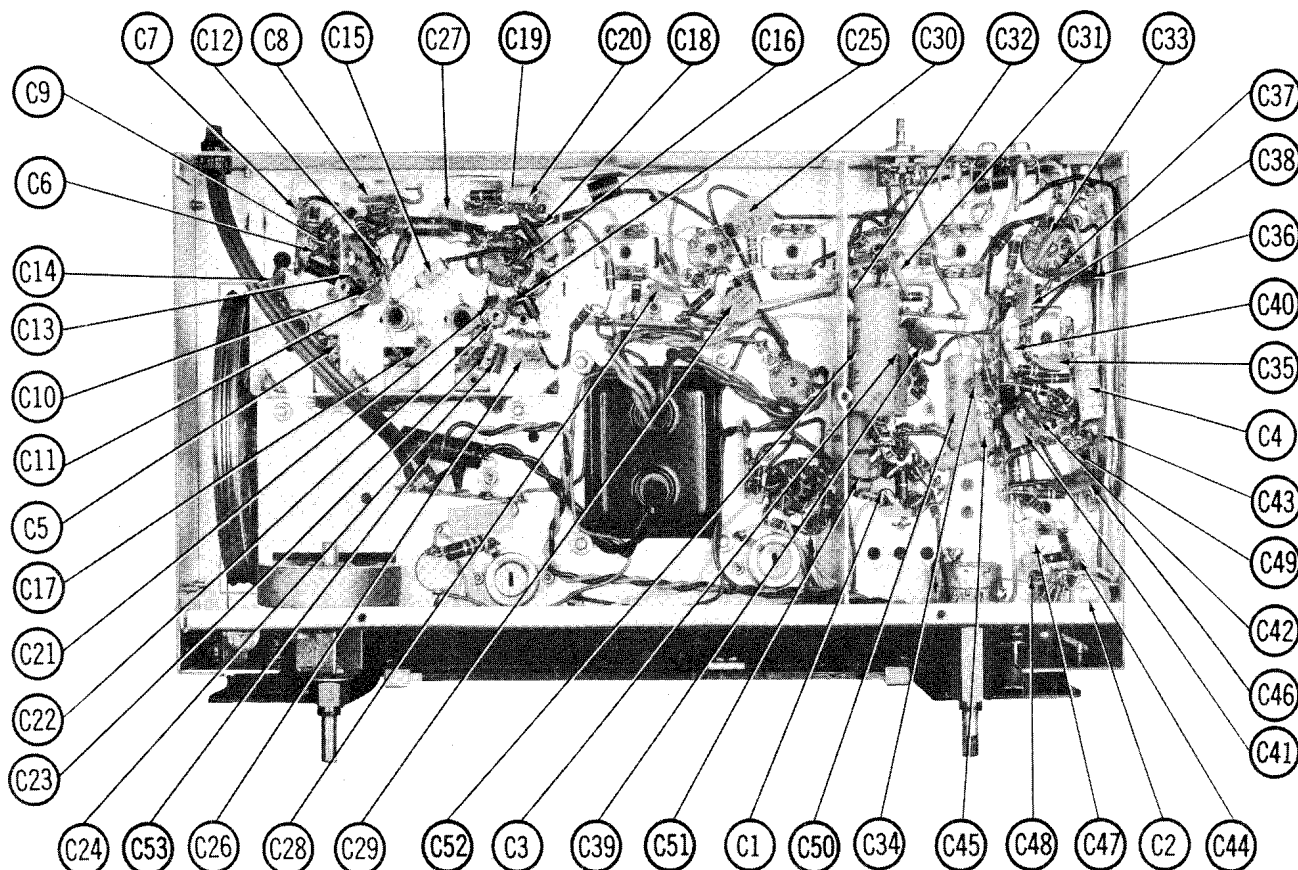


FIG. 2



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

# CHASSIS BOTTOM VIEW



FISHER  
MODEL FM-90X

## PARTS LIST AND DESCRIPTIONS TUBES (GENERAL ELECTRIC, SYLVANIA)

| ITEM No. | USE                  | TYPE  | NOTES |
|----------|----------------------|-------|-------|
| V6       | Squelch Amp.-AF Amp. | 12AX7 |       |
| V7       | Limiter              | 6BH6  |       |
| V8       | AF Amp. - Meter Amp. | 12AU7 |       |
| V9       | Rectifier            | 6X4   |       |

Note 1. In some versions, the mixer is a 6AP4. A 6BQ7A is used for the oscillator-AFC tube.

## ELECTROLYTIC CAPACITORS

| ITEM No. | RATING CAP. | VOLT. | FISHER PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | MAILORY PART No. | PYRAMID PART No. | SANCAMO PART No. | SPRAGUE PART No. |
|----------|-------------|-------|-----------------|------------------|---------------------------|------------------|------------------|------------------|------------------|
| C1A      | 40          | 250   | C550-130        | AFH4-04-50       | D0034                     | FP420.33         | TMQ-120          | Q-012            | TVL-4635.3       |
| C1B      | 40          | 200   |                 |                  |                           |                  |                  |                  |                  |
| C1C      | 40          | 200   |                 |                  |                           |                  |                  |                  |                  |
| C1D      | 30          | 200   |                 |                  |                           |                  |                  |                  |                  |
| C2       | 10          | 250   | C551-128        | PRS50V10         | BBR10-50                  | TC32             | TD-10-50         | MT-0510          | TVA-1304         |
| C3       | 1           | 250   | C546-126        | PRS450V1         | BRI45                     | TT250X1          | ML10-50          | MMT-4501         | R2622 *          |
| C4       | 10          | 50    | C551-146        | PWE50010         | NLI0-50                   | TT50X10          |                  | MMT-0510         | TE-1304          |

\* Non Catalog Item

## 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 CAP. | VOLT. | FISHER PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | MAILORY PART No. | SPRAGUE PART No. | NOTES |
|----------|-------------|-------|-----------------|------------------|---------------------------|------------------|------------------|-------|
| C5       | 5           | 500   | CC20CH050F5     | NPO-SI 5         | TCZ-4R7                   | CTA8V47C         | 5TCCB-V47        | NPO   |
| C6       | 100         | 800   | C-577-121       | BPD-0001         | DD-101                    | L10T1            | 5GA-T1           |       |
| C7       | 470         | 500   | CC20CH050F5     | BPD-00047        | DD-471                    | UC-5347          | 5GA-T47          |       |
| C8       | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C9       | 470         | 500   | CC20CH050F5     | BPD-00047        | DD-471                    | UC-5347          | 5GA-T47          |       |
| C10      | 470         | 500   | CC20CH050F5     | BPD-00047        | DD-471                    | UC-5347          | 5GA-T47          |       |
| C11      | 470         | 500   | CC20CH050F5     | BPD-00047        | DD-471                    | UC-5347          | 5GA-T47          |       |
| C12      | 470         | 500   | CC20CH050F5     | BPD-00047        | DD-471                    | UC-5347          | 5GA-T47          |       |
| C13      | 470         | 500   | CC20CH050F5     | BPD-00047        | DD-471                    | UC-5347          | 5GA-T47          |       |
| C14      | 470         | 500   | CC20CH050F5     | BPD-00047        | DD-471                    | UC-5347          | 5GA-T47          |       |
| C15      | 47          | 500   | CC21GP470M5     | NPO-SI 1         | TCZ-47                    | LI0Q47           | 5GA-T47          |       |
| C16      | 1           | 500   | CC20CH050F5     | NPO-SI 1         | TCZ-47                    | CTA8V47C         | 5TCCB-V47        |       |
| C17      | 5           | 500   | CC20CH050F5     | NPO-SI 5         | TCZ-47                    | CTA8V47C         | 5TCCB-V47        |       |
| C18      | 24          | 500   | CC20CH050F5     | NPO-SI 120       | TCZ-24                    | CTA8V47C         | 5TCCB-V47        |       |
| C19      | 1800        | 500   | CC20CH050F5     | NPO-SI 120       | TCZ-24                    | CTA8V47C         | 5TCCB-V47        |       |
| C20      | 120         | 500   | CC21GP120K5     | NPO-SI 120       | D6-121                    | CTA8V47C         | 5TCCB-V47        |       |
| C21      | 100         | 800   | C-577-121       | BPD-0001         | DD-101                    | L10T1            | 5GA-T1           |       |
| C22      | 5           | 500   | CC20CH050F5     | NPO-SI 5         | TCZ-47                    | CTA8V47C         | 5TCCB-V47        |       |
| C23      | 13          | 500   | CC20HG130K5     | NPO-SI 13        | TCZ-13                    | CTA8V47C         | 5TCCB-V47        |       |
| C24      | 100         | 800   | C-577-121       | BPD-0001         | DD-101                    | L10T1            | 5GA-T1           |       |
| C25      | 100         | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C26      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C27      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C28      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C29      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C30      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C31      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C32      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C33      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C34      | 470         | 500   | CC20CH050F5     | BPD-00047        | DD-471                    | UC-5347          | 5GA-T47          |       |
| C35      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C36      | 100         | 800   | C-577-121       | BPD-0001         | DD-101                    | L10T1            | 5GA-T1           |       |
| C37      | 20000       | 800   | C-556-122       | BPD-002          | DD-203                    | BYA10S2          | 5GA-T1           |       |
| C38      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C39      | 20000       | 800   | CK62GP502V6     | BPD-002          | DD-203                    | BYA10S2          | 5HK-S2           |       |
| C40      | 33          | 500   | CC21GP330M5     | SI 33            | D6-330                    | LT6Q33           | 5GA-Q33          |       |
| C41      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C42      | 20000       | 800   | CK62GP502V6     | BPD-002          | DD-203                    | BYA10S2          | 5HK-S2           |       |
| C43      | 5000        | 800   | CK62GP502V6     | BPD-005          | DD-502                    | DC525            | 5HK-D5           |       |
| C44      | 300         | 500   | CC21GP300M5     | SI 300           | D6-301                    | LT6T3            | 5GA-T3           |       |
| C45      | 1000        | 500   | CC21GP100K5     | SI 100           | D6-101                    | LT6T1            | 5GA-T1           |       |
| C46      | 1000        | 500   | CC21GP100K5     | SI 100           | D6-101                    | LT6T1            | 5GA-T1           |       |
| C47      | 20000       | 800   | C-556-122       | BPD-002          | DD-203                    | BYA10S2          | 5HK-S2           |       |



## PARTS LIST AND DESCRIPTIONS (Continued)

## CAPACITORS (cont)

| ITEM No. | REPLACEMENT DATA |      |                 |                          | NOTES |
|----------|------------------|------|-----------------|--------------------------|-------|
|          | RATING CAP.      | VOLT | FISHER PART No. | CORNELL-DUBILER PART No. |       |
| C47      | 300              | 500  | CC21GP301M5     | D6-301                   | ①     |
| C48      | 300              | 500  | CC21GP301M5     | L76T3                    |       |
| C49      | 5000             | 600  | CR62GP502V6     | D6-301                   |       |
| C50      | .047             | 200  | C862P473M2      | BYA10D5                  |       |
| C51      | .0047            | 200  | C862P473M2      | DD-502                   |       |
| C52      | .22              | 200  | C862P473M2      | DF-503                   |       |
| C53      | .01              | 600  | C862P473M2      | CU6BDA7                  |       |
|          |                  |      |                 | GEM-2022                 |       |
|          |                  |      |                 | GEM-611                  |       |
|          |                  |      |                 | GEM-611                  |       |

① Not used in some versions.

② Chassis with serial numbers 10001-19999 use three 5mmf capacitors in parallel: N1400

(Part #CC20V0K50F5), N330 (Part #CC20SK50F5), NPO (CC20C4050F5).

Chassis with serial numbers 30001-39999 use 5mmf N750 (Part #CC20U050F5) and

13mmf N030 (Part #CC20HG130K5) in parallel.

## CONTROLS

| ITEM No. | REPLACEMENT DATA   |       |                 |                    | INSTALLATION NOTES |
|----------|--------------------|-------|-----------------|--------------------|--------------------|
|          | RATING RESIST-ANCE | WATTS | FISHER PART No. | CLAROSTAT PART No. |                    |
| R1A      | 10K                | 1/2   | R551-182        | Q11-116            | Muting             |
| R2       | 500K               | 1/2   | R550-139        | FS-3               | Power On-Off       |
| R3       | 250K               | 2(WW) | R550-135-2      | Not Req.           | Output Level       |
| R4       | 1500K              | 2(WW) | R550-149        | US-26              | Signal Meter Adj.  |

\* Use KR with CRL "red label" controls and KB with "blue label" controls.

## RESISTORS

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

| ITEM No. | RATING |      | FISHER PART No. | RATING |       | FISHER PART No. | NOTES  |
|----------|--------|------|-----------------|--------|-------|-----------------|--------|
|          | OHMS   | WATT |                 | OHMS   | WATT  |                 |        |
| R5       | 470K   |      | RC20BF474K      | 100K   |       | RC20BF04K       | Note 2 |
| R6       | 470K   |      | RC20BF474K      | R31    | 470K  | RC20BF474K      |        |
| R7       | 100K   |      | RC20BF010K      | R32    | 22K   | RC20BF222K      |        |
| R8       | 470K   |      | RC20BF474K      | R33    | 5%    | RC20BF222K      |        |
| R9       | 100K   |      | RC20BF010K      | R34    | 2200K | RC20BF222K      |        |
| R10      | 100K   |      | RC20BF010K      | R35    | 3300K | RC20BF222K      |        |
| R11      | 100K   |      | RC20BF010K      | R36    | 270K  | RC20BF272K      |        |
| R12      | 2200K  |      | RC20BF222K      | R37    | 68K   | RC20BF682K      | Note 1 |
| R13      | 8200K  |      | RC20BF822K      | R38    | 1000K | RC20BF102K      |        |
| R14      | 470K   |      | RC20BF474K      | R39    | 8800K | RC20BF882K      |        |
| R15      | 330K   |      | RC20BF334K      | R40    | 1500K | RC20BF152K      |        |
| R16      | 2200K  |      | RC20BF222K      | R41    | 150K  | RC20BF154K      |        |
| R17      | 1000K  |      | RC20BF102K      | R42    | 220K  | RC20BF224K      |        |
| R18      | 100K   |      | RC20BF010K      | R43    | 33K   | RC20BF333K      |        |
| R19      | 330K   |      | RC20BF334K      | R44    | 1000K | RC20BF102K      | Note 1 |
| R20      | 1000K  |      | RC20BF102K      | R45    | 220K  | RC20BF224K      |        |
| R21      | 100K   |      | RC20BF010K      | R46    | 2700K | RC20BF272K      |        |
| R22      | 1000K  |      | RC20BF102K      | R47    | 1Meg  | RC20BF102K      |        |
| R23      | 220K   |      | RC20BF222K      | R48    | 47K   | RC20BF473K      |        |
| R24      | 22K    |      | RC20BF223K      | R49    | 33K   | RC20BF333K      |        |
| R25      | 100K   |      | RC20BF104K      | R50    | 2200K | RC20BF222K      |        |
| R26      | 68K    |      | RC20BF682K      | R51    | 220K  | RC20BF222K      | Note 1 |
| R27      | 220K   |      | RC20BF224K      | R52    | 330K  | RC20BF333K      |        |
| R28      | 150K   |      | RC20BF154K      | R53    | 580K  | RC20BF582K      |        |
| R29      | 220K   |      | RC20BF224K      |        |       |                 |        |

Note 1. Not used in some versions.

Note 2. Some versions may use 560K in this application (Part #RC20BF564K).

## TRANSFORMER (POWER)

| ITEM No. | RATING |         |        |  | REPLACEMENT DATA |                      |                |                      |
|----------|--------|---------|--------|--|------------------|----------------------|----------------|----------------------|
|          | PRI.   | SEC. 1  | SEC. 2 |  | FISHER PART No.  | Holliderson PART No. | Merit PART No. | Thornderson PART No. |
| T1       | 117V   | 375VCT  | 6.3V   |  | T-630-113        |                      |                |                      |
|          | ③ .46A | ③ .070A | ③ 3.2A |  |                  |                      |                |                      |

## PARTS LIST AND DESCRIPTIONS (Continued)

## COILS (RF-IF)

| ITEM No. | USE                | REPLACEMENT DATA |                   |                 |              | NOTES  |
|----------|--------------------|------------------|-------------------|-----------------|--------------|--|
|          |                    | FISHER PART No.  | Meissner PART No. | Miller PART No. | Ram PART No. |  |
| L1       | Ant. Matching Coil | L-509-139        | 15-1082           | 6202            | BC-501       | * Use two.<br>2 Microhenries<br>2.2 Microhenries |
| L2       | Ant. Matching Coil | L-509-139        | TV-172            | 6202            | BC-501       |  |
| L3       | Antenna Coil       | L-551-131        | TV-172            |                 |              |  |
| L4       | Fil. Choke         | L-509-140        | BC-563 *          | 4606            |              |  |
| L5       | Neutr. Coil        | L-520-178        | 19-1002           | BC-563          |              |  |
| L6       | RF Choke           | L-50066-6        | 19-1002           | BC-563          |              |  |
| L7       | RF Coil            | L-551-187        |                   |                 |              |  |
| L8       | RF Choke           | L-50066-6        | 19-1002           | BC-563          |              | 2.2 Microhenries<br>1.25 Microhenries            |
| L9       | Fil. Choke         | L-520-156        | 19-1000           | BC-561          |              |  |
| L10      | Osc. Coil          | L-551-191        |                   |                 |              | 2.2 Microhenries                                 |
| L11      | RF Choke           | L-50066-6        | 19-1002           | BC-563          |              |  |
| L12      | 1st FM IF          | ZZ-630-114       | 18-3487           |                 |              | 1.25 Microhenries                                |
| L13      | Fil. Choke         | L-520-156        | 19-1000           | BC-561          |              |  |
| L14      | 2nd FM IF          | ZZ-509-130       | 18-3487           |                 |              | L. 25 Microhenries                               |
| L15      | 3rd FM IF          | ZZ-509-130       | FM-254            | 1463            |              |  |
| L16      | Fil. Choke         | L-520-156        | 19-1000           | BC-561          |              | L. 25 Microhenries                               |
| L17      | FM Limiter Ass'y   | L-551-121        |                   |                 |              |  |
| L18      | Ratio Det. Ass'y   | ZZ-592-170       |                   |                 |              | 2.2 Microhenries; IRC Part #CLA                  |
| L19      | RF Choke           | L-3352           | 19-1002           | BC-563          |              |  |

## CRYSTAL DIODES

| ITEM No. | ORIG. TYPE | REPLACEMENT DATA |              |                   | NOTES  |
|----------|------------|------------------|--------------|-------------------|--|
|          |            | FISHER PART No.  | CBS PART No. | SYLVANIA PART No. |  |
| M1       | 1N295      |                  | 1N60         | 1N295             | Limiter Rect. (Pigtail)<br>Limiter Rect. (Pigtail)<br>Ratio Det. (Pigtail) Note 1<br>Ratio Det. (Pigtail) Note 1 |
| M2       | 1N295      |                  | 1N60         | 1N295             |  |
| M3       | 1N541      |                  | 1N67         | 1N295             |  |
| M4       | 1N541      |                  | 1N67         | 1N295             |  |

Note 1. Some versions may use 1N542 in this application.

## MISCELLANEOUS

| ITEM No. | PART NAME   | FISHER PART No. | NOTES                  |
|----------|-------------|-----------------|------------------------|
|          |             |                 |                        |
| M5       | Lamp        | J-520-137       | 6 Volt, 2 Watt         |
| M6       | Lamp        | J-520-137       | 6 Volt, 2 Watt         |
| M7       | Tuning Cap. | C-551-119       | FM, 3 Gang             |
| M8       | Meter       | M-551-134       | Signal Strength        |
| M9       | Meter       | M-551-168       | Tuning, Channel Center |

## CABINETS &amp; CABINET PARTS

(When Ordering Cabinets &amp; Cabinet Parts, Specify Model, Chassis &amp; Color)

| NAME         | PART NO.   | DESCRIPTION           |
|--------------|------------|-----------------------|
|              |            |                       |
| Knob         | E-50049-5  | Tuning                |
| Knob         | E-50049-3  | On-Off, Muting        |
| Panel        | AS-630-104 | Includes Escutcheon   |
| Panel        | AS-630-109 | Less Escutcheon       |
| Dial Pointer | A-551-125  |                       |
| Dial Glass   | N-551-117  |                       |
| Meter Glass  | N-551-193  | Signal Strength       |
| Meter Glass  | N-551-194  | Center Channel Tuning |

## WIRING DATA

General-use Unshielded Hook-up Wire ..... Use BELDEN No. 8530 (Solid) Available in Ten Colors  
Power Cord ..... Use BELDEN No. 8524 (Stranded) Available in Ten Colors  
Low-Loss Shielded Lead (Interconnecting) ..... Use BELDEN No. 1725-K (7 1/2 Ft. Length)  
Phono Pick-up Arm Cable ..... Use BELDEN No. 8401  
..... Use BELDEN No. 8430 (Two Conductor - Twisted)