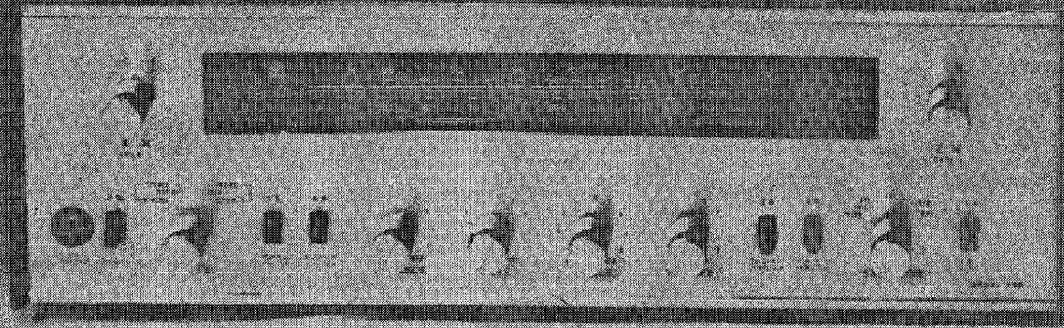
Sansui

# SANSUI FM-MULTIPLEX STEREOPHONIC AMPLIFIER



# SERVICE MANUAL

# PARTS LIST

| Part No | Nomenclature |
|---|---|
| $R_1$ | 150KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_2$ | 47KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_3$ | 10KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_4$ | 68Ω ¼Watt 10% Carbon Fixed Resistor |
| $R_5$ | 5KΩ 1Watt 10% Carbon Fixed Resistor |
| $R_6$ | 4KΩ 2Watt 10% Carbon Fixed Resistor |
| $R_7$ | 68Ω ¼Watt 10% Carbon Fixed Resistor |
| $R_8$ | 4KΩ 2Watt 10% Carbon Fixed Resistor |
| $R_9$ | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{10}$ | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{11}$ | 15KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{12}$ | 15KΩ 1Watt 10% Carbon Fixed Resistor |
| $R_{13}$ | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{14}$ | 1KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{15}$ | 1KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{16}$ | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{17}$ | 250KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{18}$ | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{19}$ | 500KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{20}$ | 500KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{21}$ | 20KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{22}$ | 50Ω ¼Watt 10% Carbon Fixed Resistor |
| $R_{23}$ | 68Ω ¼Watt 10% Carbon Fixed Resistor |
| $R_{24}$ | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{25}$ | 5KΩ 1Watt 10% Carbon Fixed Resistor |
| $R_{26}$ | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{27}$ | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{28}$ | 250KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{29}$ | 1MΩ ½Watt 10% Carbon Fixed Resistor |
| $R_{30}$ | 1MΩ ½Watt 10% Carbon Fixed Resistor |
| $R_{31}$ | 100KΩ 1Watt 10% Carbon Fixed Resistor |
| $R_{32}$ | 10KΩ ½Watt 10% Carbon Fixed Resistor |
| $R_{33}$ | 5KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{34}$ | 10KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{35}$ | 2Ω 2Watt 10% Carbon Fixed Resistor |
| $R_{36}$ | 2.5KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{37}$ | 3KΩ 20Watt 10% Wire Winding Resistor |
| $R_{38}$ | 2 MΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{39}$ | 10MΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{40}$ | 5KΩ ½Watt 10% Carbon Fixed Resistor |
| $R_{41}$ | 3KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{42}$ | 5KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{43}$ | 15KΩ ½Watt 10% Carbon Fixed Resistor |
| $R_{44}$ | 15KΩ ½Watt 10% Carbon Fixed Resistor |
| $R_{45}$ | 15KΩ ½Watt 10% Carbon Fixed Resistor |
| $R_{46}$ | 15KΩ ½Watt 10% Carbon Fixed Resistor |
| $R_{47}$ | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{48}$ | 10MΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{49}$ | 1KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{50}$ | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{51}$ | 1KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{52}$ | 500KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{53}$ | 10KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{54}$ | 8KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{55}$ | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{56}$ | 30KΩ ¼Watt 10% Carbon Fixed Resistor |

| Part No | Nomenclature |
|---|---|
| $R_{57}$ | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{58}$ | 10KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{59}$ | 8KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{60}$ | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{61}$ | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{62}$ | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{63}$ | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{64}$ | 5KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{65}$ | 5KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{66}$ | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{67}$ | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{68}$ | 170KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{69}$ | 170KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{70}$ | 100KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{71}$ | 100KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{72}$ | 15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{73}$ | 15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{74}$ | 7.5KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{75}$ | 7.5KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{76}$ | 8KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{77}$ | 8KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{78}$ | 15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{79}$ | 15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{80}$ | 250Ω ¼Watt 10% Carbon Fixed Resistor |
| $R_{81}$ | 250Ω ¼Watt 10% Carbon Fixed Resistor |
| $R_{82}$ | 120KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{83}$ | 120KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{84}$ | 30KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{85}$ | 30KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{86}$ | 6.5KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{87}$ | 6.5KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{88}$ | 15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{89}$ | 15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less) |
| $R_{90}$ | 100Ω ¼Watt 10% Carbon Fixed Resistor |
| $R_{91}$ | 100Ω ¼Watt 10% Carbon Fixed Resistor |
| $R_{92}$ | 20KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{93}$ | 20KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{94}$ | 2KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{95}$ | 2KΩ ¼Watt 10% Carbon Fixed Resistor |
| $R_{96}$ | 2KΩ 1Watt 10% Carbon Fixed Resistor |

# PARTS LIST

| Part No | Nomenclature |
|---|---|
| R | 150KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 150KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 15KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 15KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 100KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 1KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 50KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 3KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 3KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 150KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 150KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 1MΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 1MΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 10KΩ 1Watt 10% Carbon Fixed Resistor |
| R | 2KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 2KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 250KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 250KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 10KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 10KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 150KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 150KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 150KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 150KΩ ½Watt 10% Carbon Fixed Resistor |
| R | 15KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 15KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 1.5KΩ 2Watt 10% Carbon Fixed Resistor |
| R | 500KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 500KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 500KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 500KΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| R | 2MΩ ¼Watt 10% Carbon Fixed Resistor |
| R40A | 700Ω 10Watt 10% Wire wound Resistor |
| R40B | 500Ω 10Watt 10% Wire wound Resistor |
| R41 | 400Ω 2Watt 10% Carbon Fixed Resistor |
| R42 | 400Ω 2Watt 10% Carbon Fixed Resistor |
| VR- | HUM Balancer 100Ω |
| VR- | HUM Balancer 100Ω |
| VR- | Variable Resistor type 24φ 5KΩ(B) |
| VR- | Variable Resistor type 24φ 50KΩ(A) |
| VR- | Variable Resistor type 24φ 500KΩ(A) (Loudness. tap～120KΩ) |
| VR- | Variable Resistor type 24φ 1MΩ(N) (Tone control) |
| VR- | Variable Resistor type 24φ 1MΩ(N) (Tone control) |
| VR- | Variable Resistor type 24φ 500KΩ(A.C) (Balance Control) |

| Part No | Nomenclature |
|---|---|
| C | 10pF 250WV 10% Ceramic tubular |
| C | 0.02μF 250WV 10% Ceramic tubular |
| C | 10pF 250WV 10% Ceramic tubular |
| C | 13.5pF 250WV 10% Ceramic tubular |
| C | 100pF 250WV 10% Ceramic tubular |
| C | 18pF 250WV 10% Ceramic tubular |
| C | 0.002μF 250WV 10% Ceramic tubular |
| C | 12pF 250WV 10% Ceramic tubular |
| C | 7pF 250WV 10% Ceramic tubular |
| C | 0.002μF 250WV 10% Ceramic tubular |
| C | 0.01μF 250WV 10% Ceramic tubular |
| C | 20μF 300WV electrolytic tLug terminal |
| C | 0.002μF 250WV 10% Ceramic tubular |
| C | 0.002μF 250WV 10% Ceramic tubular |
| C | 0.01μF 250WV 10% Ceramic tubular |
| C | 0.01μF 250WV 10% Ceramic tubular |
| C | 0.002μF 250WV 10% Ceramic tubular |
| C | 50pF 250WV 10% Ceramic tubular |
| C | 0.01μF 250WV 10% Ceramic tubular |
| C | 0.002μF 250WV 10% Ceramic tubular |
| C | 50pF 250WV 10% Ceramic tubular |
| C | 750pF 250WV 10% Mica tubular |
| C | 0.01μF 250WV 10% Ceramic tubular |
| C | 50pF 250WV 10% Ceramic tubular |
| C | 0.01μF 400WV 10% Oil tubular |
| C | 15pF 250WV 10% Ceramic tubular |
| C | 350pF 200WV 5% Mica tubular |
| C | 50pF 250WV 10% Ceramic tubular |
| C | 0.05μF 400WV 10% Oil tubular |
| C | 0.05μF 400WV 10% Oil tubular |
| C | 0.05μF 250WV 10% Ceramic tubular |
| C | 100pF 250WV 10% Ceramic tubular |
| C | 50pF 250WV 10% Ceramic tubular |
| C | 0.02μF 400WV 10% Oil tubular |
| C | 200μF 180WV electrolytic Lug terminal |
| C | 200μF 180WV electrolytic Lug terminal |
| C37 | 25μF 50WV electrolytic tubular |
| C38 | 200μF 25WV electrolytic tubular |
| C | 200μF 25WV electrolytic tubular |
| C40 | 25μF 25WV electrolytic tubular |
| C41 | 50μF 50WV electrolytic tubular |
| C42 | 0.005μF 400WV 10% Oil tubular |
| C43 | 0.01μF 400WV 10% Oil tubular |
| C44 | 0.001μF 400WV 10% Oil tubular |
| C45 | 300pF 50WV 5% Styrene tubular |
| C46 | 300pF 500WV 5% Mica tubular |
| C47 | 200pF 250WV 5% Mica tubular |
| C48 | 50pF 250WV 10% Ceramic tubular |
| C49 | 0.001μF 400WV 10% Oil tubular |

# PARTS LIST

| Part No | Nomenclature |
|---|---|
| $C_{50}$ | 0.1 μF 400WV 10% Oil tubular |
| $C_{51}$ | 0.003 μF 400WV 10% Oil tubular |
| $C_{52}$ | 150pF 250WV 10% Ceramic tubular |
| $C_{53}$ | 1500pF 250WV 10% Ceramic tubular |
| $C_{54}$ | 80pF 50WV 5% Styrene tubular |
| $C_{55}$ | 50pF 250WV 10% Ceramic tubular |
| $C_{56}$ | 500pF 50WV 5% Styrene tubular |
| $C_{57}$ | 1 μF 150WV electrolytic tubular |
| $C_{58}$ | 1000pF 250WV 10% Ceramic tubular |
| $C_{59}$ | 430pF 50WV 5% Styrene tubular |
| $C_{60}$ | 0.003 μF 400WV 10% Oil tubular |
| $C_{61}$ | 0.01 μF 75WV 10% mylar tubular |
| $C_{62}$ | 3000pF 500WV 5% Mica tubular |
| $C_{63}$ | 80pF 50WV 5% Styrene tubular |
| $C_{64}$ | 500pF 50WV 5% Styrene tubular |
| $C_{65}$ | 430pF 50WV 5% Styrene tubular |
| $C_{66}$ | 30 μF 10WV electrolytic tubular |
| $C_{67}$ | 30 μF 10WV electrolytic tubular |
| $C_{68}$ | 0.01 μF 75WV 10% mylar tubular |
| $C_{69}$ | 0.01 μF 75WV 10% mylar tubular |
| $C_{70}$ | 30 μF 12WV electrolytic tubular |
| $C_{71}$ | 30 μF 12WV electrolytic tubular |
| $C_{72}$ | 30 μF 10WV electrolytic tubular |
| $C_{73}$ | 30 μF 10WV electrolytic tubular |
| $C_{74}$ | 0.04 μF 75WV 10% mylar tubular |
| $C_{75}$ | 0.04 μF 75WV 10% mylar tubular |
| $C_{76}$ | 0.013 μF 75WV 10% mylar tubular |
| $C_{77}$ | 0.013 μF 75WV 10% mylar tubular |
| $C_{78}$ | 0.05 μF 75WV 10% mylar tubular |
| $C_{79}$ | 0.05 μF 75WV 10% mylar tubular |
| $C_{80}$ | 30 μF 10WV electrolytic tubular |
| $C_{81}$ | 30 μF 10WV electrolytic tubular |
| $C_{82}$ | 10 μF 12WV electrolytic tubular |
| $C_{83}$ | 10 μF 12WV electrolytic tubular |
| $C_{84}$ | 150pF 500WV 5% Mica tubular |
| $C_{85}$ | 150pF 500WV 5% Mica tubular |
| $C_{86}$ | 0.02 μF 75WV 10% mylar tubular |
| $C_{87}$ | 0.02 μF 75WV 10% mylar tubular |
| $C_{88}$ | 20 μF 300WV electrolytic tubular |
| $C_{89}$ | 30 μF 6WV electrolytic tubular |
| $C_{90}$ | 30 μF 6WV electrolytic tubular |
| $C_{91}$ | 40 μF 300WV electrolytic tubular |
| $C_{92}$ | 0.03 μF 400WV 10% Oil tubular |
| $C_{93}$ | 0.03 μF 400WV 10% Oil tubular |
| $C_{94}$ | 150pF 500WV 5% Mica tubular |
| $C_{95}$ | 150pF 500WV 5% Mica tubular |
| $C_{96}$ | 0.001 μF 400WV 10% Oil tubular |
| $C_{97}$ | 0.001 μF 400WV 10% Oil tubular |
| $C_{98}$ | 0.003 μF 400WV 10% Oil tubular |
| $C_{99}$ | 0.003 μF 400WV 10% Oil tubular |
| $C_{100}$ | 0.02 μF 75WV 10% mylar tubular |
| $C_{101}$ | 0.02 μF 75WV 10% mylar tubular |
| $C_{102}$ | 20 μF 300WV electrolytic tubular |
| $C_{103}$ | 200pF 500WV 5% Mica tubular |
| $C_{104}$ | 200pF 500WV 5% Mica tubular |
| $C_{105}$ | 200pF 500WV 5% Mica tubular |

| Part No | Nomenclature |
|---|---|
| $C_{106}$ | 200pF 500WV 5% Mica tubular |
| $C_{107}$ | 0.01 μF 400WV 10% Oil tubular |
| $C_{108}$ | 0.01 μF 400WV 10% Oil tubular |
| $C_{109}$ | 0.02 μF 400WV 10% Oil tubular |
| $C_{110}$ | 0.02 μF 400WV 10% Oil tubular |
| $C_{111}$ | 0.015 μF 75WV 10% mylar tubular |
| $C_{112}$ | 0.015 μF 75WV 10% mylar tubular |
| $C_{113}$ | 0.003 μF 400WV 10% Oil tubular |
| $C_{114}$ | 0.003 μF 400WV 10% Oil tubular |
| $C_{115}$ | 0.003 μF 400WV 10% Oil tubular |
| $C_{116}$ | 0.003 μF 400WV 10% Oil tubular |
| $C_{117}$ | 20 μF 350WV electrolytic Lug terminal |
| $C_{118}$ | 150pF 500WV 5% Mica tubular |
| $C_{119}$ | 150pF 500WV 5% Mica tubular |
| $C_{120}$ | 40 μF 350WV electrolytic Lug terminal |
| $C_{121}$ | 0.1 μF 400WV 10% Oil tubular |
| $C_{122}$ | 0.1 μF 400WV 10% Oil tubular |
| $C_{123}$ | 0.1 μF 400WV 10% Oil tubular |
| $C_{124}$ | 0.1 μF 400WV 10% Oil tubular |
| $C_{125}$ | 25pF 500WV 10% Mica tubular |
| $C_{126}$ | 25pF 500WV 10% Mica tubular |
| $C_{127}$ | 20 μF 350WV electrolytic Lug terminal |
| $C_{128}$ | 20 μF 350WV electrolytic Lug terminal |

| | |
|---|---|
| $T_1$ | MFC-1 19Kc/s 46mH ± 20% |
| $T_2$ | MPT-2A 19Kc/s 7mH ± 20% |
| $T_3$ | MPT-2B 38Kc/s 7mH ± 20% |
| $T_4$ | MFC-2 67Kc/s 25mH ± 20% |
| $T_5$ | 1st FM IF transformer 10.7Mc/s |
| $T_6$ | 2nd FM IF transformer 10.7Mc/s |
| $T_7$ | 3rd FM IF transformer 10.7Mc/s |
| $T_8$ | FM. Discriminator transformer (10.7Mc/s) |
| $T_9$ | 1st AM IF transformer 455Kc/s |
| $T_{10}$ | 2nd AM IF transformer 455Kc/s |
| $T_{11}$ | Out put transformer primary 4.3KΩ Secondry 8Ω 16Ω 32Ω |
| $T_{12}$ | Out put tramsformer Primary 4.3KΩ Secondary 8Ω 16Ω 32Ω |
| $T_{13}$ | Power transformer |
| $L_1$ | FM. antenna coil |
| $L_2$ | FM. Plat-coil |
| $L_3$ | FM. oscillator coil |
| $L_4$ | AM. Loopstick antenna coil |
| $L_5$ | AM. oscillator |
| $V_1$ | Vacuum tube 6AQ8 |
| $V_2$ | Vacuum tube 6BA6 |
| $V_3$ | Vacuum tube 6BA6 |
| $V_4$ | Vacuum tube 6BA6 |
| $V_5$ | Vacuum tube 6BE6 |
| $V_6$ | Vacuum tube 6BA6 |
| $V_7$ | Vacuum tube 6GE12A |
| $V_8$ | Vacuum tube 12AT7 |

## PARTS LIST

| Part No | Nomenclature |
|---|---|
| | Vacuum tube |
| $V_{9}$ | Vacuum tube 6BL8 |
| $V_{10}$ | Vacuum tube 12AU7 |
| $V_{11}$ | Vacuum tube 6AQ8 |
| $V_{12}$ | Vacuum tube 6BM8 |
| $V_{13}$ | Vacuum tube 6BM8 |
| $V_{14}$ | Vacuum tube 6AQ8 |
| $V_{15}$ | Vacuum tube 6BM8 |
| $V_{16}$ | Vacuum tube 6BM8 |
| S.D. | Si. diode input AC 120V<br>outout DC 500mA -55°C~+150°C |
| OA-81 | Ge. Diode-VDM 115V ID 50mA<br>+75°C-55°C |
| D | Selenium Rectifier |
| IS-352 | Variable capacitor |
| $Tr_{1}$ | transistor 2SB-381-2A |
| $Tr_{2}$ | transistor 2SB-381-2B |
| $Tr_{3}$ | transistor 2SB-381-2A |
| $Tr_{4}$ | transistor 2SB-381-2B |
| $JC_{1}$ | Power Switch connecter for<br>100V/114V/240V |
| $JC_{2}$ | D. I. N Jack (tape Recoder connector) |

| Part No | Nomenclature |
|---|---|
| JC. 3 | Headset Jack |
| PL | pilot Lamp 6.3V 0.15A |
| RELAY | 587-313-MB DC 6mA |
| $SS_{1}$ | AFC Switch Slide type |
| $SS_{2}$ | Power Switch Slide type |
| $SS_{3}$ | MAG, X-TAL Change over Switch<br>Slide type |
| $SS_{4}$ | Tape Monitor Switch Slide type |
| $SS_{5}$ | Loudness Switch Slide type |
| $SS_{6}$ | Scratch Switch Slide type |
| $SS_{7}$ | Rumble Switch Slide type |
| $S_{1}$ $S_{2}$ $S_{3}$ | Selector Switch |
| $S_{4}$ $S_{5}$ | Mode Switch |
| F | FUSE |
| $VC_{1}$ | Variable Capacity (FM. Tuning) |
| $VC_{2}$ | Variable Capacity (FM. oscillator) |
| $VC_{3}$ | Variable Capacity (AM. Tuning) |
| $VC_{5}$ | Variable Capacity (AM. oscillator) |
| $TC_{1}$ | trimmer condenser |
| $TC_{2}$ | trimmer condenser |
| $TC_{3}$ | trimmer condenser |
| $TC_{4}$ | trimmer condenser |
| $TC_{5}$ | patting condenser |

## AM ALIGNMENT PROCEDURE

| STEP | ALIGN. | GENERATOR | FEED SIGNAL | OUTPUT INDICATOR | DIAL SETTING | ADJUST | ADJUST FOR |
|---|---|---|---|---|---|---|---|
| 1. | IF Transformer | 455 KC<br>± 30KC sweep | Pin 7 6BE6 | oscilloscope at ③ | | 1st I.F.T--<br>Primary & secondary<br>2nd I.F.T--<br>Primary & secondary | Best I.F.T Wave form |
| 2. | OSC. | 600 KC<br>400c/s 30%<br>Modulation | Antenna Terminals | oscilloscope & VTVM at output load | 600KC | OSC. coil | Maximum |
| 3. | OSC. | 1400 KC<br>400c/s 30%<br>Modulation | Same | Same | 1400KC | OSC. Trimmer | Maximum |
| 4. | | Reiterate 2. 3. | | | | | |
| 5. | RF Amp. | 600KC<br>400c/s 30%<br>Modulation | Antenna Terminals | oscilloscope & V.T.V.M at output load | 600 KC | RF coil | Maximum |
| 6. | RF Amp. | 1400 KC<br>400c/s 30%<br>Modulation | Same | Same | 1400 KC | RF Trimmer | Maximum |

# ALIGNMENT

## FM ALIGNMENT PROCEDURE

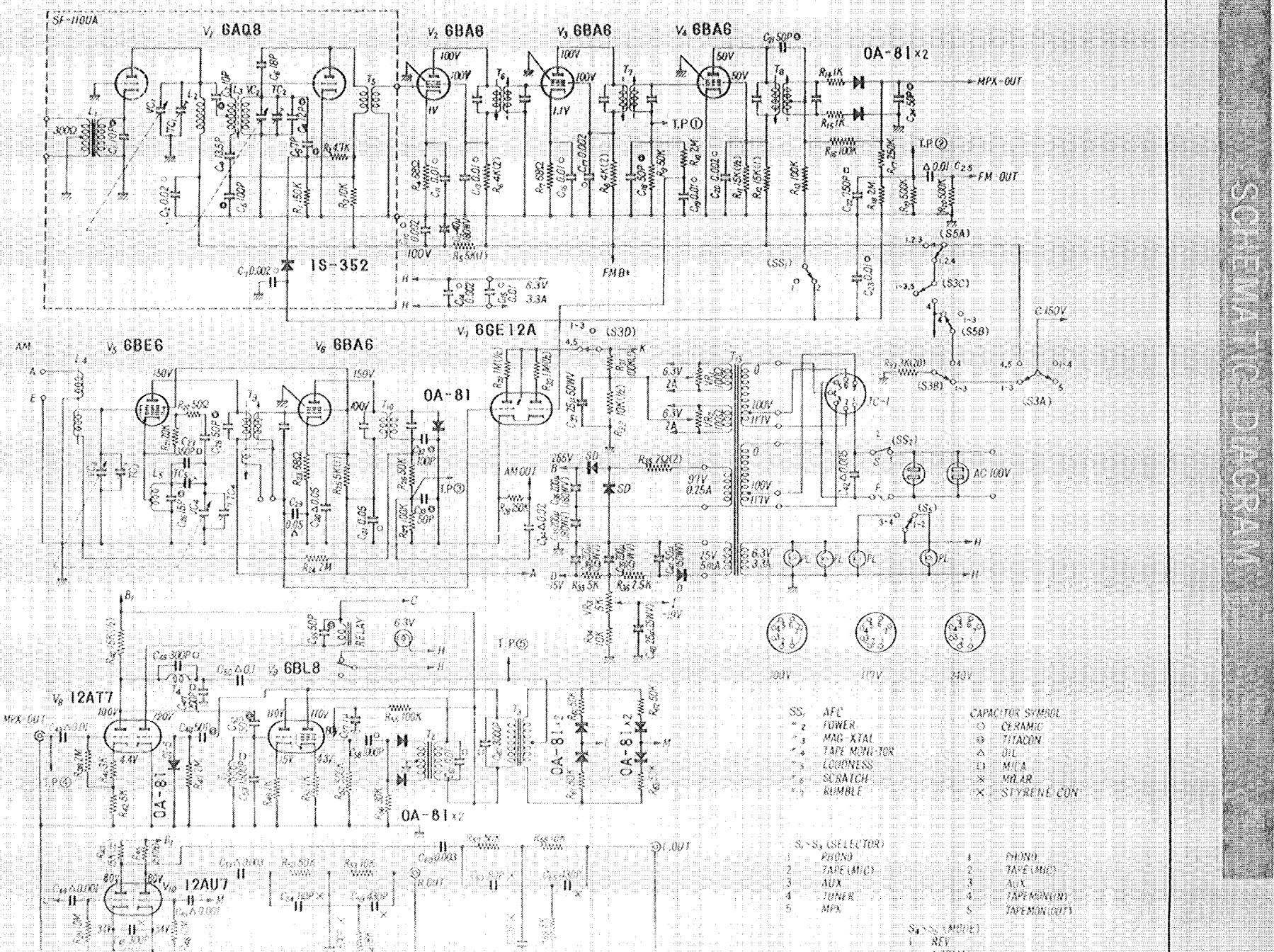
1. AFC-OFF  2. Turn tuning gang fully  Center carrier wave.  Set pointer at reference mark.

| STEP | ALIGN. | GENERATOR | FEED SIGNAL | OUTPUT INDICATOR | DIAL SETTING | ADJUST | ADJUST FOR |
|---|---|---|---|---|---|---|---|
| 1. | IF Transformer | 10.7 MC ±400 KC sweep | Couple sweep signal by a round tube (6AQ8) | oscilloscope at ① | | 1st IFT Secondary 2nd IFT Primary & 3rd IFT Primary & secondary | Best IFT Wave form |
| 2. | Discriminator | Same | Same | oscilloscope at ② | | Discriminator Transformer | S Curve |
| 3. | OSC. | 90 MC 400c/s 30% Modulation | Antenna Terminals | oscilloscope & V.T.M. at oscillo load | 90 MC | OSC. coil | Maximum |
| 4. | OSC. | 104 MC 400c/s 30% Modulaton | Same | Same | 104 MC | OSC. Trimmer | Maximum |
| 5. | | Reiterate 3. 4 | | | | | |
| 6. | RF Amp. | 90 MC 400c/s 30% Modulation | Antenna Terminal | oscilloscope & V.T.V.M at oscillo. load | 90 MC | RF Amp. coil | Maximum |
| 7. | RF Amp. | 104 MC 400c/s 30% | Same | Same | 104 MC | RF trimmer | Maximum |
| 8. | | Reiterate 6 7 | | | | | |

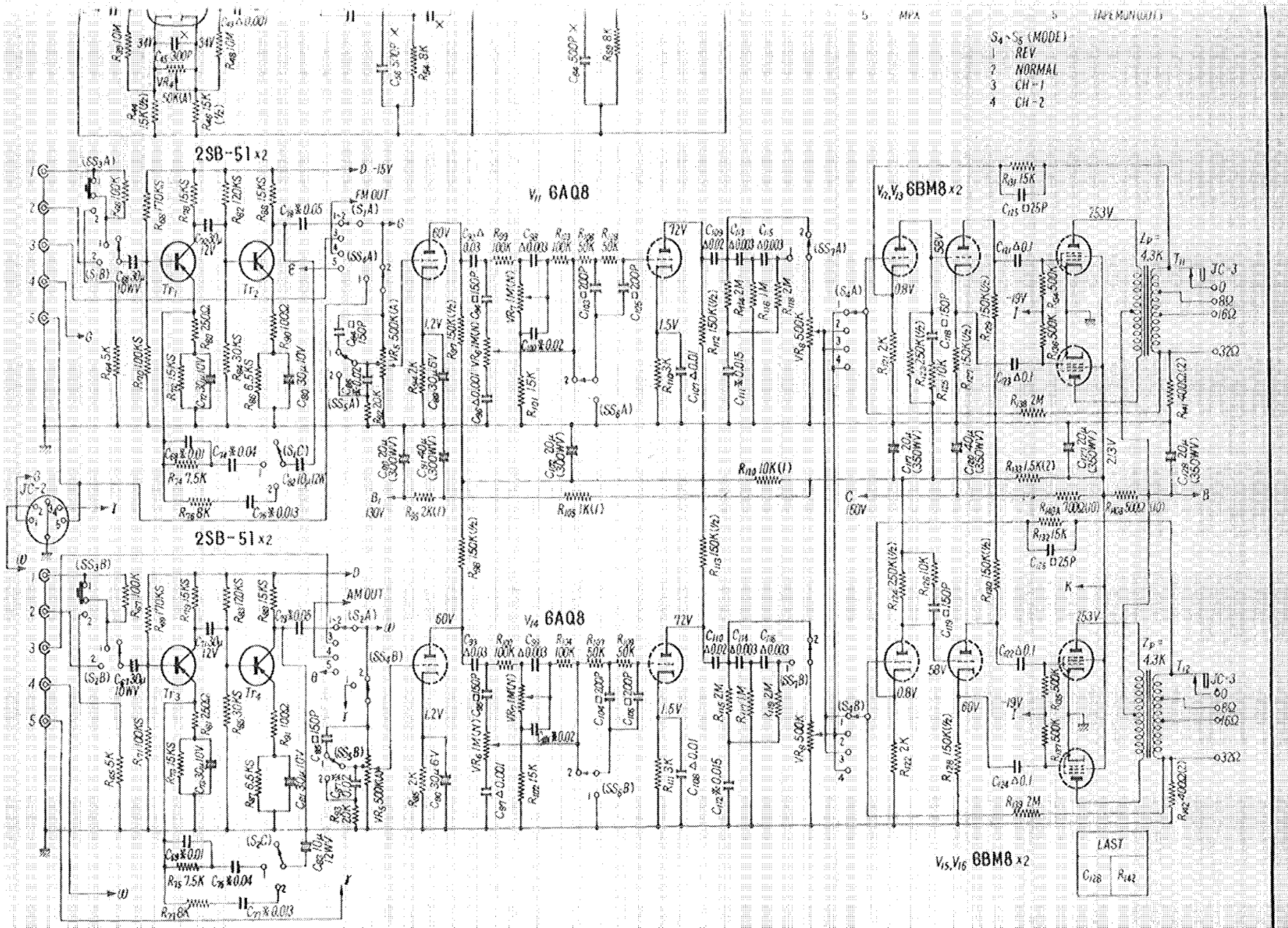
## MULTIPLEX ALIGNMENT PROCEDURE

1. Do not attempt to align the Multiplex Circuit unless the following equipment is available:
   a. Multiplex Stereo Generator
   b. FM Signal Generator
   c. Oscilloscope
   d. Sweep Generator
   e. AC V.T.V.M
   f. Audio oscillator

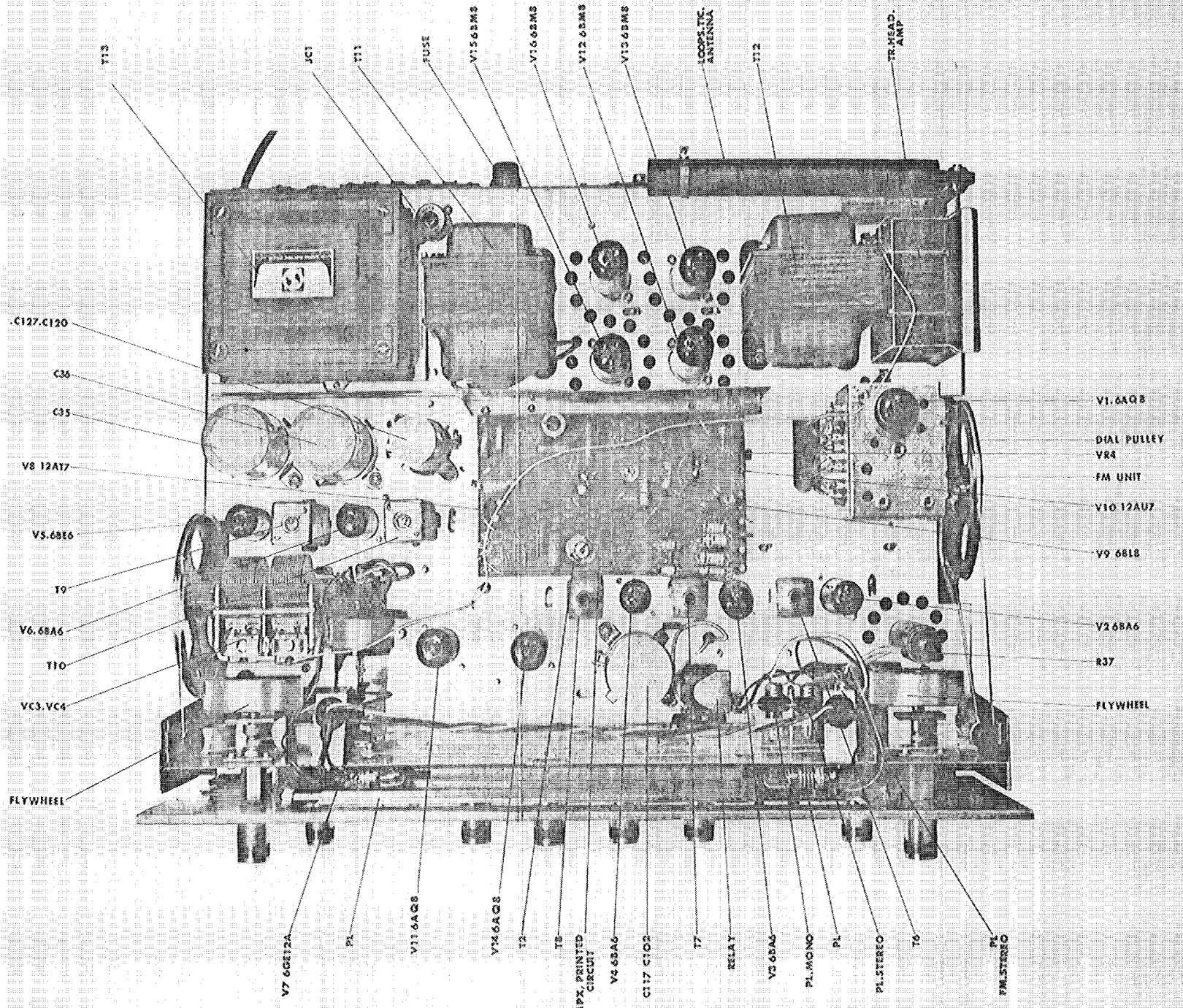
| STEP | ALIGN. | GENERATOR | FEED SIGNAL | OUTPUT INDICATOR | ADJUST | ADJUST FOR |
|---|---|---|---|---|---|---|
| 1. | 67 KC Trap | 67 KC Audio Signal | Connect to ④ | V.T.V.M at ⑤ | T4 | Minimum |
| 2. | 19 KC Transformer | FM Signal Gen. Modulated 30 % by Stereo Gen. sub-Channel | Antenna Terminals Tune to signal | V.T.V.M & oscilloscope at Output load | T1 | Maximum |
| 3. | 19 KC Transformer | same | same | same | T2 | Maximum |
| 4. | 38 KC Transformer | same | same | same | T3 | Maximum |
| 5. | Separation Volume | FM Signal Gen. Modulated 30 % by Stereo Signal Gen. Channel A | Same | V.T.V.M oscilloscope at output load Channel B | Separation Volume | Channel A Minimum |



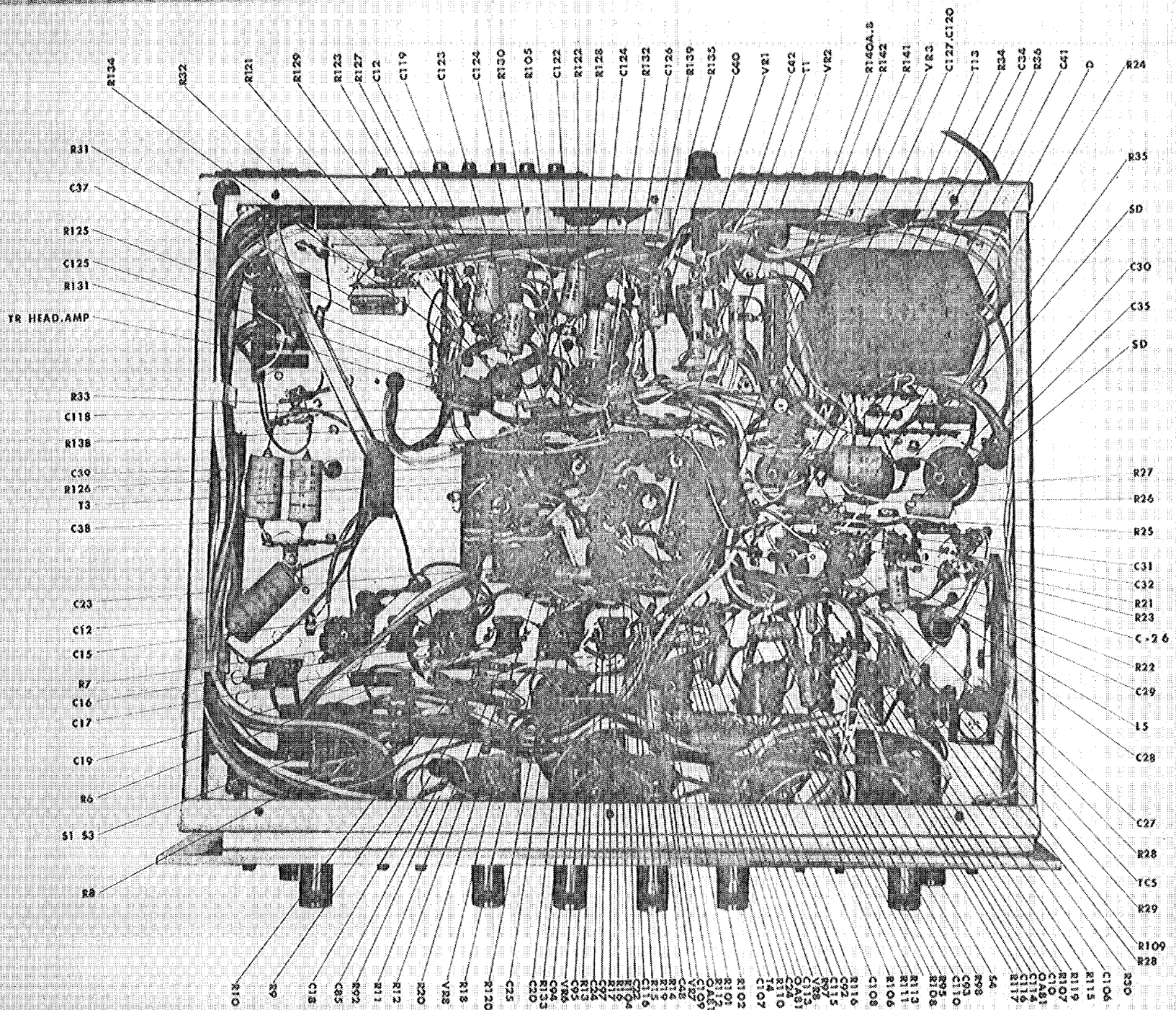

SCHEMATIC DIAGRAM


2SB-51 ×2
2SB-51 ×2
V11 6AQ8
V14 6AQ8
V12,V13 6BM8 ×2
V15,V16 6BM8 ×2
FM OUT
AM OUT
MPX
TAPE MONITOR
S4 ~ S5 (MODE)
1 REV
2 NORMAL
3 CH-1
4 CH-2
LAST
C128 R142

# CHASSIS TOP VIEW



# CHASSIS BOTTOM VIEW



# SPECIFICATIONS

- **Tubes and Semicon Complement :**
  3-6AQ8, 1-6BE6, 4-6BA6, 4-6BM8, 1-12AU7, 1-6BL8, 12AT7, 1-6GE12A 4-2SB-51 (Transistors), 10-OA81 (Ge Diodes), 2-SE-0.5A (Si Diodes), 1-TC-0.2P (Se Rectifier) IS-352 (Variable capacitor)

- **Power Amplifier**
  - Output Max.: 46 watts total, 23 watts each channel
  - Frequency Responce: 30 to 70,000 cps ±2 db
  - Harmonic Distortion: less than 1% at 13 watts each channel
  - Output Impedances: 8, 16 and 32 ohms each channel

- **Preamplifier, each channel**
  - Gain: PHONO: [MAG]: 78 db, [X-TAL]: 51.5 db; TAPE(MIC): 83 db; AUX: 49 db
  - Equalizer: NF type: PHONO (RIAA), TAPE (BTS).
  - Tone Control: CR type; at 50 c/s : +12 db to −16 db; at 10Kc/s : +10 db to −14 db
  - Loudness Control: by switch adjustment
  - Rumble filter: by switch adjustment
  - Tape monitor: by switch adjustment

- **FM Tuners**
  - Frequency Range: 88 to 108 MC
  - Band Width: 200 Kc/s (−3 db)
  - IF: 10.7 Mc/s
  - De-Emphasis Characteristics: 75μs IHFM
  - Sensitivity: 1.7μV (at 30db S/N Radio 0.5W)

- **Built-in Multiplex**
  - Frequency Reception: 50 c/s—15Kc/s −2 db
  - Channel Separation: 30 db at 1V input (at 1Kc/s)
  - Distortion: less than 1% at 0.3V input

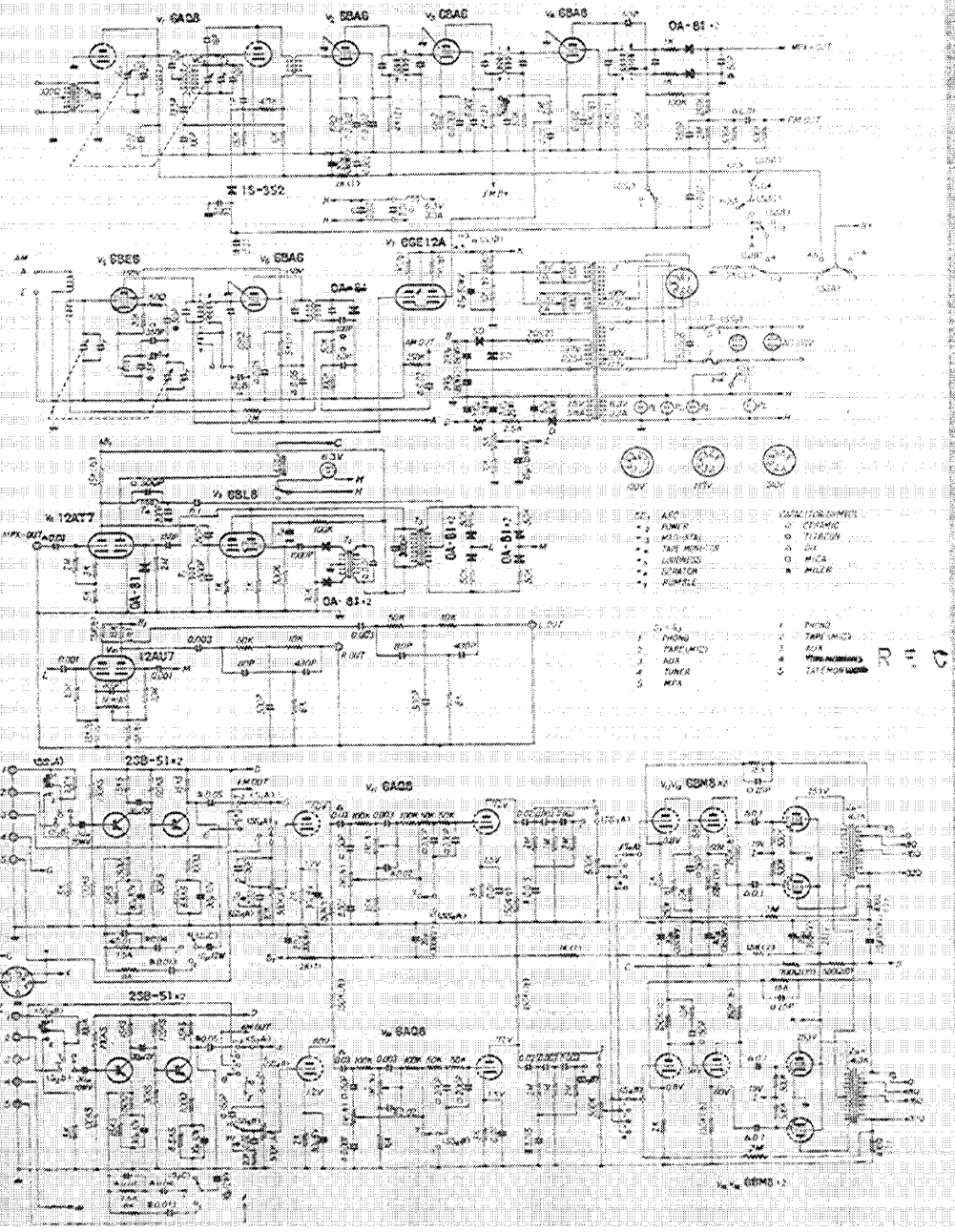
- **AM Tuners**
  - Frequency Range: 535 to 1605Kc/s
  - Band Width: 6K c/s (−3 db)
  - IF: 455Kc/s
  - Sensitivity: 50μV IHFM

- **Power Consumption :** 120VA
  - Power Supply: 117V AC or 240V AC 50—60 c/s

- **Cabinet Dimensions :** 460×362×156 mm, 18 7/8" × 14 1/4" × 6 9/16 inc.

- **Weight :** 36.7 lbs.

# SCHEMATIC DIAGRAM

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