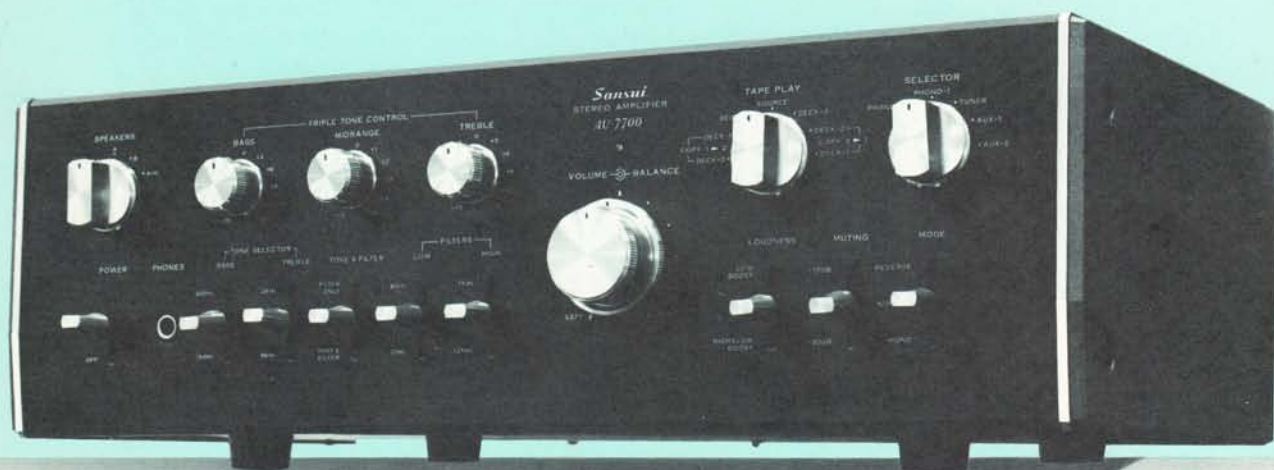


SERVICE MANUAL

STEREO AMPLIFIER

SANSUI AU-7700



Sansui

SANSUI ELECTRIC CO., LTD.

This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the AU-7700 correctly. When ordering the parts, use the stock number and parts name specifically referring to the Parts Locations & Parts Lists. For general usage and maintenance of the unit, please refer to the Operating Instructions attached with the unit.

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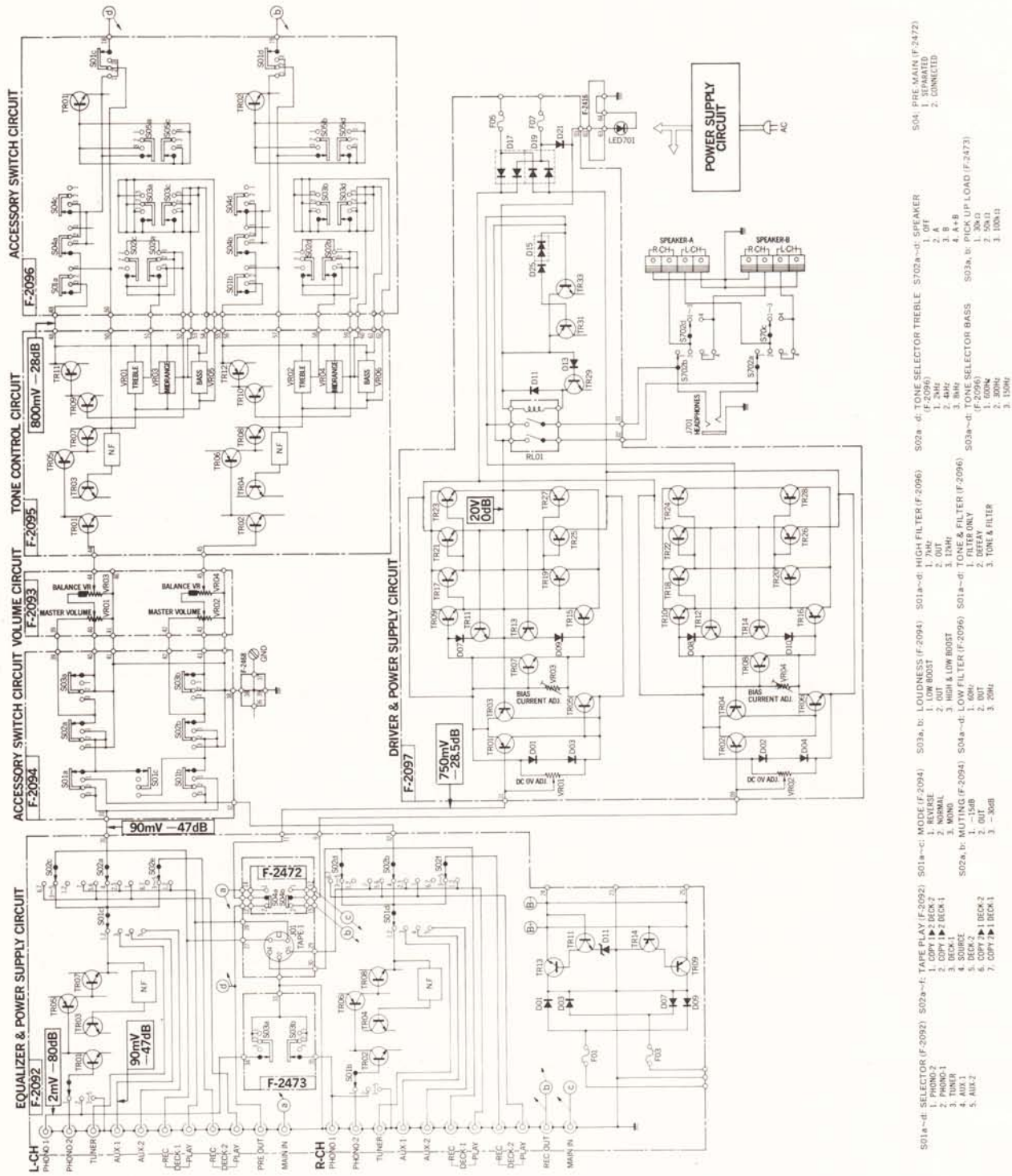
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1. SPECIFICATIONS

| | |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| POWER OUTPUT (at rated distortion) | |
| CONTINUOUS RMS POWER OUTPUT | 54 Watts per channel × 2 (both channels driven) |
| LOAD IMPEDANCE | 8Ω |
| POWER BAND | 20 to 20,000Hz |
| TOTAL HARMONIC DISTORTION | less than 0.1% (from AUX) |
| Music power (IHF) | 250W (4Ω 1,000Hz) 140W (8Ω 1,000Hz) |
| Continuous rms power output | 55+55W (8Ω 1,000Hz) |
| INTERMODULATION DISTORTION (at rated power output 70Hz: 7,000Hz=4: 1 SMPTE method) | |
| OVERALL | less than 0.15% |
| PREAMPLIFIER ONLY | less than 0.1% |
| POWER (MAIN) AMPLIFIER ONLY | less than 0.1% |
| FREQUENCY RESPONSE (at 1 Watt output) | |
| OVERALL | 10 to 50,000Hz ± 0.5 dB |
| POWER (MAIN) AMPLIFIER ONLY | 5 to 50,000Hz ± 0.5 dB |
| EQUALIZATION (RIAA curve) | 30 to 15,000Hz ± 0.5 dB |
| DAMPING FACTOR | 30 (8Ω) |
| INPUT SENSITIVITY AND INPEDANCE (1kHz, for rated power output) | |
| PHONO-1 | 2.5mV 30kΩ, 50kΩ, 100kΩ adjustable |
| PHONO-2 | 2.5mV 50kΩ (Max. input capability: 300mV at 0.2% total harmonic distortion) |
| TUNER | 100mV 50kΩ |
| AUX-1 & -2 | 100mV 50kΩ |
| TAPE DECK-1 & -2 (Pin Jacks) | 100mV 50kΩ |
| TAPE DECK-1 (DIN Socket) | 100mV 50kΩ |
| MAIN IN | 800mV 50kΩ |
| OUTPUT LEVEL (1kHz) | |
| TAPE DECK-1 & -2 (Pin Jacks) | 100mV |
| TAPE DECK-1 (DIN Socket) | 30mV |
| PRE OUT | 800mV (Max. output level: 5V at 0.5% total harmonic distortion) |
| CROSSTALK (1kHz, for rated power output) | |
| PHONO-1 & -2 | better than 50dB |
| TUNER | better than 50dB |
| AUX-1 & -2 | better than 55dB |
| TAPE DECK-1 & -2 | better than 55dB |
| MAIN IN | better than 60dB |
| HUM AND NOISE (IHF) | |
| PHONO-1 & -2 | better than 75dB |
| TUNER | better than 85dB |
| AUX-1 & -2 | better than 85dB |
| TAPE DECK-1 & -2 | better than 85dB |
| MAIN IN | better than 100dB |
| SWITCHES AND CONTROLS | |
| BASS (± 5 steps) | ± 13 dB at 50Hz |
| TONE SELECTOR (TURNOVER FREQUENCIES) | 150Hz, 300Hz, 600Hz |
| MIDRANGE (± 5 steps) | ± 5 dB at 1kHz |
| TREBLE (± 5 steps) | ± 13 dB at 15kHz |
| TONE SELECTOR (TURNOVER FREQUENCIES) | 2kHz, 4kHz, 8kHz |
| LOUDNESS (Volume Control: -30dB) | |
| LOW BOOST | +10dB at 50Hz |
| HIGH & LOW BOOST | +10dB at 50Hz +8dB at 10kHz |
| LOW FILTER | -3dB at 20Hz (12dB/oct.) -3dB at 60Hz (12dB/oct.) |
| HIGH FILTER | -3dB at 7kHz (6dB/oct.) -3dB at 12kHz (12dB/oct.) |
| MUTING | -30dB, -15dB |
| OTHERS | |
| TRANSISTORS | 57 |
| DIODES | 22 |
| ZENER DIODES | 3 |
| LED | 1 |
| POWER REQUIREMENTS | 100, 117, 220, 240V, 50/60Hz |
| POWER CONSUMPTION | 120W (rated), 350W (max.) |
| DIMENSIONS | 434mm (17 $\frac{1}{8}$ ") W 130mm (5 $\frac{1}{8}$ ") H 315mm (12 $\frac{7}{16}$ ") D |
| WEIGHT | 12.3kg (27.1 lbs) Net, 14.0kg (30.9 lbs) Packed |

* Design and specification subject to change without notice for improvements.

2. BLOCK DIAGRAM AND VALUE OF EACH LEVEL



Condition of Level Measuring

*Value of each level in block diagram was measured by the followings.

1. MASTER VOLUME control ... Maximum
2. BASS, MIDRANGE, TREBLE & BALANCE volume controls ... Center

3. TONE & FILTER switch controls TONE & FILTER

4. Input PHONO-1, 2 2mV 1kHz Sine Wave
AUX-1, 2 90mV 1kHz Sine Wave

(output impedance of 600Ω at an audio oscillator)

5. Output ... 20V (50W) 8Ω

Note: Each voltage value is for reference and measured by a VTVM. In some recorders, the actual voltage value is in minor difference from the reference value.

3. ADJUSTMENT

3-1. Driver Circuit Board Adjustment (See Fig. 3-1, 3-2 and 3-3)

- Note: 1. Confirm the AC power supply voltage.
 2. MASTER VOLUME Minimum
 3. SPEAKERS Selector..... A
 4. Make the SP terminals free (no load).

5. For adjustment, run the unit for more than 3 minutes after the power is switched ON.
 6. Room temperature should be 18~28°C (65~83°F) for bias current adjustment.

| STEP | SUBJECT | EQUIPMENT | MEASURE OUTPUT | ADJUST | ADJUST FOR | CONDITION |
|---------------------------------------------|-------------------|-----------------|---------------------------------------------------------------------|----------------|---------------|--------------------------------------|
| 1 | DC 0V L-ch | DC volt meter | SP terminal L-ch (See Fig. 3-3) | F-2097 VR01 | 0V ±10mV | ◦Turn volumes of VR03, VR04 CCW |
| 2 | DC 0V R-ch | Same as above | SP terminal R-ch (See Fig. 3-3) | F-2097 VR02 | Same as above | |
| The unit installing quick acting fuses | | | | | | |
| 3-1 | Bias current L-ch | DC milliammeter | F-2097 F01 | F-2097 VR03 | 45 ±10mA | ◦Step down meter's range accordingly |
| 4-1 | Bias current R-ch | Same as above | F-2097 F02 | F-2097 VR04 | Same as above | |
| ※The unit not installing quick acting fuses | | | | | | |
| 3-2 | Bias current L-ch | DC milliammeter | Between a red wire & plus side of C602 on F-2416 (See Fig. 3-2) | F-2097 VR03 | 45 ±10mA | ◦Step down meter's range accordingly |
| 4-2 | Bias current R-ch | Same as above | Between other red wire & plus side of C602 on F-2416 (See Fig. 3-2) | F-2097 VR04 | Same as above | |

⚡ Bias current adjustment on the unit not installing quick acting fuses.

- 1) Disconnect a red wire (plus side) from C602 on F-2416 which goes to driver & power supply circuit board, F-2097, then confirm that collector voltage +41V of power transistor, TR23 (L-ch) or TR24 (R-ch) on F-2097 is not supplied.

- 2) Adjust VR03 (L-ch) or VR04 (R-ch) so that bias current on one channel at the disconnected points between A and B (see Fig. 3-2) is 45±10mA.
 3) After connecting the red wire again, adjust it on another channel as same as steps 1) and 2).

Fig. 3-1

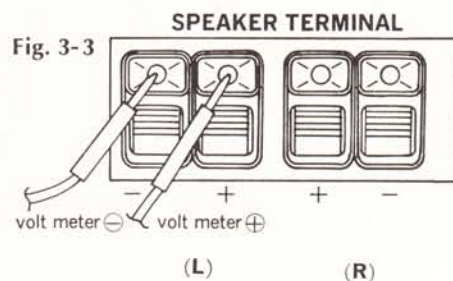
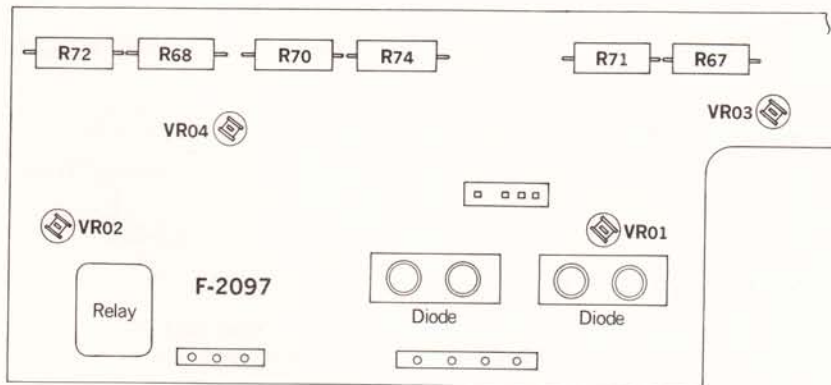
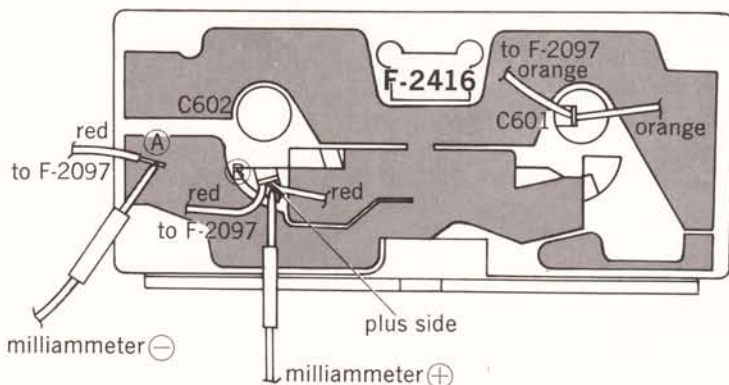


Fig. 3-2



4. TROUBLESHOOTING CHART

4-1. Troubleshooting on Power Supply Section

| Symptom | Check Point | Cause & What to Do |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. No power supplied to each section | | |
| 1-1. Indicator lamp for power not lighted | | <ul style="list-style-type: none"> 1. Power supply cord open 2. Imperfect contact of power switch, S701 3. Power fuse, F701 open 4. Defective power transformer, T701 5. F07 on F-2097 open 6. Defective D21 on F-2097 7. Imperfect contact of voltage selector, PU01 |
| 1-2. Indicator lamp for power lighted | | |
| | 1) $\pm 41V$ not supplied to collector on each power transistors (+41V, TR21~TR24, -41V, TR25~TR28) | <ul style="list-style-type: none"> 8. F05 or F07 on F2097 open 9. Defective D17 or D19 on F-2097 |
| | 2) +24V not supplied to terminal 24 and -25V not supplied to terminal 25 on F-2092 | <ul style="list-style-type: none"> 10. Defective power transformer, T701 11. F01 (or F03) on F-2092 open 12. Defective D01, D03, D07 or D09 on F-2092 13. Defective TR09, TR11, TR13 or TR15 on F-2092 |

4-2. Troubleshooting on Audio Section

| | | |
|----------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Relay, RL01 inoperative (protector circuit inoperative) | | |
| | | <ul style="list-style-type: none"> 1. F07 on F-2097 open 2. Defective D21 on F-2097 3. Defective D13, D15 or D25 on F-2097 4. Defective TR29, TR31 or TR33 on F-2097 5. Defective relay, RL01 on F-2097 6. Defective TR21 or TR23 (TR22 or TR24) on F-2097 7. Defective TR25 or TR27 (TR26 or TR28) on F-2097 |
| 2. Bias current not adjustable to +45mA by VR03 (L-ch) or VR04 (R-ch) on F-2097 | | |
| | | <ul style="list-style-type: none"> 8. Defective TR05 or TR07 (TR06 or TR08) on F-2097 9. Defective VR03 (VR04) on F-2097 |
| 3. Center Voltage not adjustable to 0V by VR01 (L-ch) or VR02 (R-ch) on F-2097 | | |
| | | <ul style="list-style-type: none"> 10. Defective TR05 (TR06) on F-2097 11. Defective VR01 (VR02) on F-2097 |

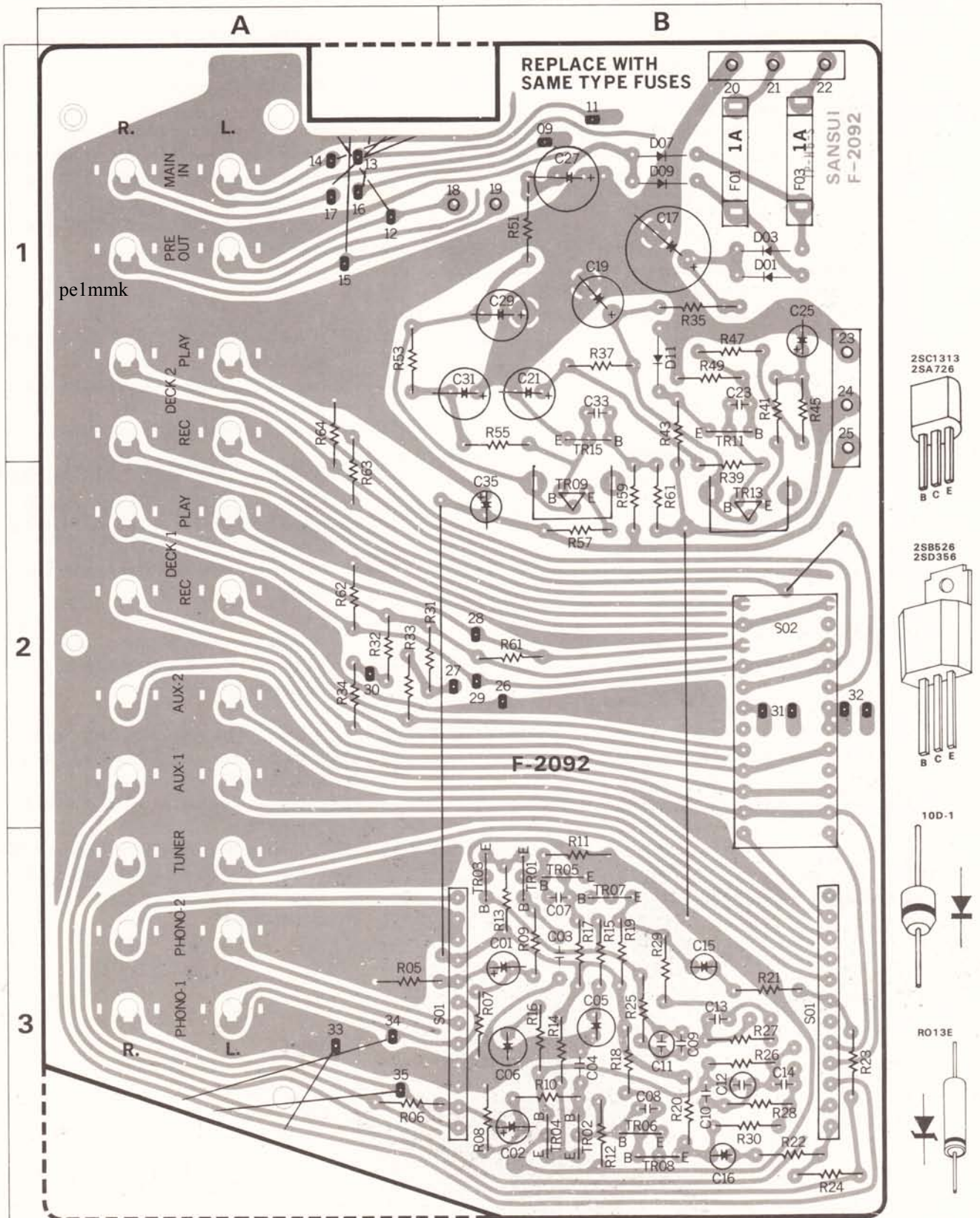
| Symptom | Check Point | Cause & What to Do |
|------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. TUNER or AUX input inoperative | | |
| 4-1. Both channels inoperative | | <ul style="list-style-type: none"> 1. Imperfect contact of speakers switch, S702a, c (S702b, d) 2. Defective Power Supply Section |
| 4-2. One channel inoperative | | |
| | * Set MODE switch to REVERSE | |
| | 1) Inoperative channel reverses | <ul style="list-style-type: none"> 3. Tuner connected from this set has faulty 4. Imperfect contact of SELECTOR switch, S01c (S01d) 5. Imperfect contact of TAPE PLAY switch, S02a (S02b) |
| | 2) Inoperative channel not reverses | |
| | * Set TONE & FILTER switch to DEFEAT | |
| | 2-1) The inoperative channel becomes operating | <ul style="list-style-type: none"> 6. Defective TR09 or TR11 (TR10 or TR12) on F-2095 7. Imperfect contact of LOW FILTER switch, S04a, c (S04b, d) 8. Defective TR01 (TR02) on F-2096 |
| | 2-2) The inoperative channel is still not operating | <ul style="list-style-type: none"> 9. Defective TR01, TR03, TR05 or TR07 (TR02, TR04, TR06 or TR08) on F-2095 10. Imperfect contact of PRE-MAIN switch, S04a (S04b) 11. Defective Driver & Power Supply Circuit Board |
| 5. PHONO inoperative | | |
| 5-1. Both channels inoperative | | 1. Refer to 4-1. of 4. Both channels inoperative |
| 5-2. One channel inoperative | | |
| | * Set MODE switch to REVERSE | |
| | 1) Inoperative channel reverses | <ul style="list-style-type: none"> 2. Turntable connected from this set has faulty 3. Imperfect contact of SELECTOR switch, S01a (S01b) 4. Defective TR01, TR03, TR05 or TR07 (TR02, TR04, TR06 or TR08) on F-2092 |
| | 2) Inoperative channel not reverses | 5. Refer to 4-2. of 4. One channel inoperative |

5. PARTS LOCATIONS AND PARTS LISTS

5-1. F-2092 Equalizer & Power Supply Circuit Board

(Stock No. 7550580 Complete Circuit Board F-2092)

Conductor Side



Parts List

| Parts No. | Stock No. | Description | Position |
|-----------|------------|-------------------------|------------------------|
| TR01, 02 | 0306071, 2 | 2SC1313 (R) (G, H) | } Transistor |
| TR03, 04 | 0306071, 2 | 2SC1313 (R) (G, H) | |
| TR05, 06 | 0300470, 1 | 2SA726 (W) (F, G) | |
| TR07, 08 | 0306070-2 | 2SC1313 (R) (F, G, H) | |
| TR09 | 0303280-2 | 2SB526 (C, D, E) | |
| TR11 | 0306070-2 | 2SC1313 (R) (F, G, H) | |
| TR13 | 0308450-2 | 2SD356 (C, D, E) | |
| TR15 | 0300470, 1 | 2SA726 (W) (F, G) | 1 B |
| D01 | 0310340 | 10D-1 | } Diode |
| D03 | 0310340 | 10D-1 | |
| D07 | 0310340 | 10D-1 | |
| D09 | 0310340 | 10D-1 | |
| D11 | 0316310 | RO13E(B) Zener Diode | 1 B |
| C01, 02 | 0519103 | 0.47 μ F 50V E.C. | 2 B |
| C03, 04 | 0660330 | 33pF 50V C.C. | 2 B |
| C05, 06 | 0532100 | 10 μ F 16V E.C. | 2 B |
| C07, 08 | 0660470 | 47pF 50V C.C. | 2 B |
| C09, 10 | 0600826 | 0.0082 μ F 50V M.C. | 2 B |
| C11, 12 | 0621561 | 560pF 50V P.C. | 2 B |
| C13, 14 | 0600276 | 0.0027 μ F 50V M.C. | 2 B |
| C15, 16 | 0533339 | 3.3 μ F 25V E.C. | 2 B |
| C17 | 0515221 | 220 μ F 50V E.C. | 1 B |
| C19 | 0514101 | 100 μ F 35V E.C. | 1 B |
| C21 | 0515470 | 47 μ F 50V E.C. | 1 B |
| C23 | 0660221 | 220pF 50V C.C. | 1 B |
| C25 | 0513100 | 10 μ F 25V E.C. | 1 B |
| C27 | 0515101 | 100 μ F | 1 B |
| C29 | 0515470 | 47 μ F | 50V E.C. |
| C31 | 0515470 | 47 μ F | 1 A, B |
| C33 | 0660221 | 220pF 50V C.C. | 1 B |
| C35 | 0513479 | 4.7 μ F 25V E.C. | 2 B |
| C901, 902 | 0601107 | 0.01 μ F | } 50V M.C. |
| C903 | 0515339 | 3.3 μ F | |
| C904, 905 | 0657223 | 0.022 μ F | } 50V C.C. |
| C906, 907 | 0660101 | 100 pF | |
| R01, 02 | 0107563 | 56k Ω | } $\frac{1}{4}$ W C.R. |
| R03, 04 | 0107473 | 47k Ω | |
| R05, 06 | 0107224 | 220k Ω | |
| R07, 08 | 0107224 | 220k Ω | |
| R09, 10 | 0107152 | 1.5k Ω | |
| R11, 12 | 0107822 | 8.2k Ω | |
| R13, 14 | 0107124 | 120k Ω | |
| R15, 16 | 0107821 | 820 Ω | |
| R17, 18 | 0107223 | 22k Ω | |
| R19, 20 | 0107472 | 4.7k Ω | |
| R21, 22 | 0107101 | 100 Ω | |
| R23, 24 | 0107563 | 56k Ω | |
| R25, 26 | 0107474 | 470k Ω | |
| R27, 28 | 0107273 | 27k Ω | |
| R29, 30 | 0107561 | 560 Ω | |
| R31, 32 | 0107104 | 100k Ω | 2 A |
| R33, 34 | 0107224 | 220k Ω | 2 A |
| R35 | 0104181 | 180 Ω 1W C.R. | 1 B |
| R37 | 0107272 | 2.7k Ω | 1 B |
| R39 | 0107821 | 820 Ω | 2 B |
| R41 | 0107220 | 22 Ω | 1 B |
| R43 | 0107821 | 820 Ω | } $\frac{1}{4}$ W C.R. |
| R45 | 0107392 | 3.9k Ω | |
| R47 | 0107471 | 470 Ω | |
| R49 | 0107682 | 6.8k Ω | |

Parts List

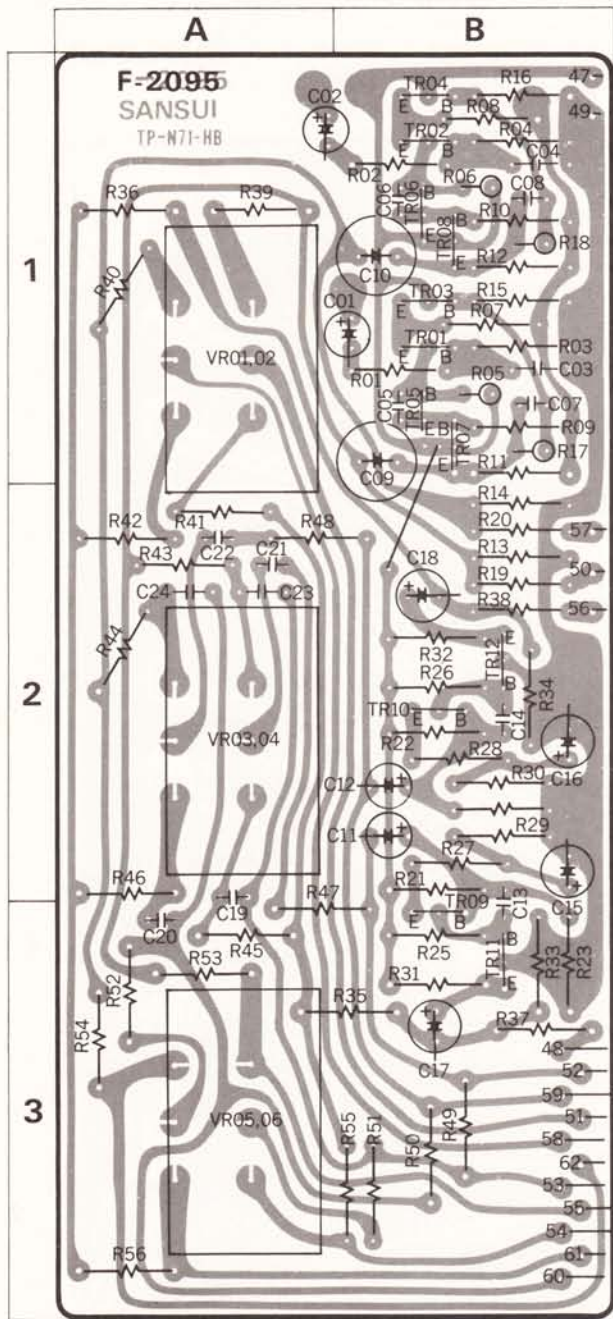
| Parts No. | Stock No. | Description | Position |
|-----------|-----------|-----------------------------------|------------------------|
| R51 | 0103331 | 330 Ω $\frac{1}{2}$ W C.R. | 1 B |
| R53 | 0107392 | 3.3k Ω | } 1 A |
| R55 | 0107122 | 1.2k Ω | |
| R57 | 0107330 | 33 Ω | 2 B |
| R59 | 0107153 | 15k Ω | 2 B |
| R60 | 0107153 | 15k Ω | } $\frac{1}{4}$ W C.R. |
| R61 | 0107474 | 470k Ω | |
| R62 | 0107474 | 470k Ω | |
| R63 | 0107474 | 470k Ω | |
| R64 | 0107474 | 470k Ω | 1, 2 A |
| R901, 902 | 0107104 | 100k Ω | 1, 2 A |
| S01 | 1102550 | SRE2-4-5 | } Rotary Switch |
| S02 | 1102560 | SRE2-6-7 | |
| F01 | 0430830 | 1A (20m/m) | } Fuse |
| F03 | 0430830 | 1A (20m/m) | |
| | 2310150 | Fuse Holder | |
| | 2430250 | Pin Jack | |
| | 5936691 | Heat Sink | |

Abbreviations

| | |
|----------------------------------------|--------------------------------------------------|
| C.R. : Carbon Resistor | B.P.E.C.: Bi-Polar Electrolytic Capacitor |
| S.R. : Solid Resistor | C.C. : Ceramic capacitor |
| Ce.R. : Cement Resistor | O.C. : Oil Capacitor |
| M.R. : Metallized Film Resistor | Mi.C. : Mica Capacitor |
| M.C. : Mylar Capacitor | P.C. : Polystyrene Capacitor |
| E.C. : Electrolytic Capacitor | T.C. : Tantalum Capacitor |

5-2. F-2095 Tone Control Circuit Board (Stock No. 7560820 Complete Circuit Board F-2095)

Conductor Side



2SC1313
2SA726

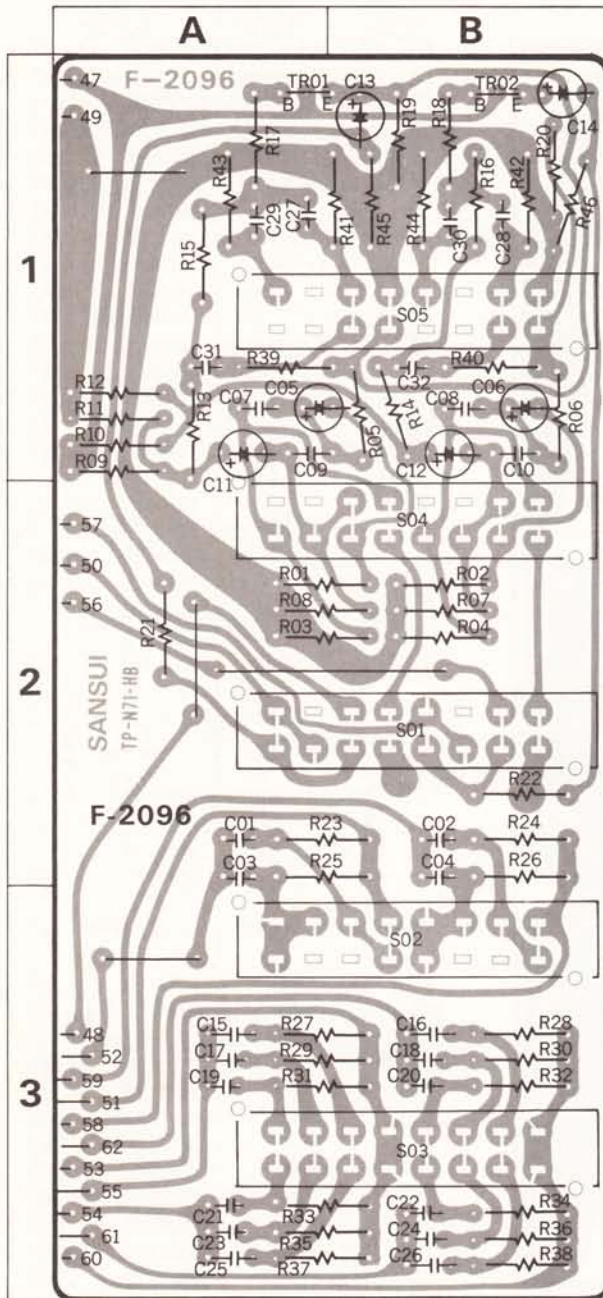


Parts List

| Parts No. | Stock No. | Description | Position | |
|-----------|------------|-----------------------------|----------------------------------|-----------|
| TR01, 02 | 0306070, 1 | 2SC1313 (R) (F, G) | Transistor 1 B | |
| TR03, 04 | 0306070, 1 | 2SC1313 (R) (F, G) | | 1 B |
| TR05, 06 | 0300470, 1 | 2SA726 (W) (F, G) | | 1 B |
| TR07, 08 | 0306070, 1 | 2SC1313 (R) (F, G) | | 1, 2B, 1B |
| TR09, 10 | 0306070, 1 | 2SC1313 (R) (F, G) | | 3 B, 2 B |
| TR11, 12 | 0300470, 1 | 2SA726 (W) (F, G) | | 3 B |
| C01, 02 | 0519103 | 0.47 μ F 50V E.C. | 1 A, B | |
| C03, 04 | 0660330 | 33pF | 1 B | |
| C05, 06 | 0660470 | 47pF 50V C.C. | 1 B | |
| C07, 08 | 0660680 | 68pF | 1 B | |
| C09, 10 | 0533100 | 10 μ F 25V B.P.E.C. | 1, 2B, 1B | |
| C11, 12 | 0519105 | 2.2 μ F 50V E.C. | 2 B | |
| C13, 14 | 0660100 | 10pF 50V C.C. | 2, 3B, 2B | |
| C15, 16 | 0510100 | 10 μ F 16V E.C. | 2 B | |
| C17, 18 | 0519001 | 10 μ F 25V E.C. | 3 B, 2 B | |
| C19, 20 | 0601686 | 0.0068 μ F | 2 A, 3 A | |
| C21, 22 | 0601476 | 0.0047 μ F 50V M.C. | | 2 A |
| C23, 24 | 0601686 | 0.0068 μ F | 2 A | |
| C901, 902 | 0601107 | 0.01 μ F | | |
| C903 | 0657223 | 0.022 μ F 50V C.C. | | |
| R01, 02 | 0107222 | 2.2k Ω | 1/4W C.R. | |
| R03, 04 | 0107124 | 120k Ω | | 1 B |
| R05, 06 | 0106822 | 8.2k Ω | 1/4W C.R. (E.L.R.) | |
| R07, 08 | 0107124 | 120k Ω | 1 B | |
| R09, 10 | 0107223 | 22k Ω | 1 B | |
| R11, 12 | 0107472 | 4.7k Ω | 1/4W C.R. | |
| R13, 14 | 0107104 | 100k Ω | 2 B | |
| R15, 16 | 0107222 | 2.2k Ω | 1 B | |
| R17, 18 | 0106183 | 18k Ω | 1/4W C.R. (E.L.R.) | |
| R19, 20 | 0107101 | 100 Ω | 2 B | |
| R21, 22 | 0107824 | 820k Ω | 2 B | |
| R23, 24 | 0107154 | 150k Ω | 3 B, 2 B | |
| R25, 26 | 0107123 | 12k Ω | 3 B, 2 B | |
| R27, 28 | 0107121 | 120 Ω | 2 B | |
| R29, 30 | 0107332 | 3.3k Ω | 2 B | |
| R31, 32 | 0107332 | 3.3k Ω | 3 B, 2 B | |
| R33, 34 | 0107104 | 100k Ω | 2 B, 2 B | |
| R35, 36 | 0107101 | 100 Ω | 3A, B, 1A | |
| R37, 38 | 0107101 | 100 Ω | 1/4W C.R. | |
| R39, 40 | 0107272 | 2.7k Ω | | 1 A |
| R41, 42 | 0107272 | 2.7k Ω | 2 A | |
| R43, 44 | 0107472 | 4.7k Ω | 2 A | |
| R45 | 0107472 | 4.7k Ω | 3 A | |
| R46 | 0107472 | 4.7k Ω | 2 A | |
| R47, 48 | 0107273 | 27k Ω | 3A, B | |
| R49, 50 | 0107223 | 22k Ω | 3 B | |
| R51, 52 | 0107222 | 2.2k Ω | 3 B, 3 A | |
| R53, 54 | 0107822 | 8.2k Ω | 3 A | |
| R55, 56 | 0107822 | 8.2k Ω | 3 B, 3 A | |
| VR01, 02 | 1060060, 1 | 50k Ω (B) \times 2 | Variable Resistor (Stop Type) | |
| VR03, 04 | 1060060, 1 | 50k Ω (B) \times 2 | | 1 A |
| VR05, 06 | 1060060, 1 | 50k Ω (B) \times 2 | | 2 A |

5-3. F-2096 Accessory Switch Circuit Board (Stock No. 7592130 Complete Circuit Board F-2096)

Conductor Side



Parts List

| Parts No. | Stock No. | Description | Position |
|-----------|------------|----------------------------------------|-----------|
| TR01,02 | 0306070, 1 | 2SC1313 [®] (F, G) Transistor | 1A, B, 1B |
| C01, 02 | 0621821 | 820 pF 50V P.C. | 2A, 2B |
| C03, 04 | 0601156 | 0.0015 μ F 50V M.C. | 2A, 2B |
| C05, 06 | 0573228 | 0.22 μ F 25V T.C. | 1A, B, 1B |
| C07, 08 | 0601687 | 0.068 μ F 50V M.C. | 1A, 1B |
| C09, 10 | 0601277 | 0.027 μ F 50V M.C. | 1A, B, 1B |
| C11, 12 | 0519101 | 1 μ F 50V E.C. | 1A, 1B |
| C13, 14 | 0519105 | 2.2 μ F 50V E.C. | 1B |
| C15, 16 | 0601687 | 0.068 μ F 50V M.C. | 3A, 3B |
| C17, 18 | 0601227 | 0.022 μ F 50V M.C. | 3A, 3B |
| C19, 20 | 0601686 | 0.0068 μ F 50V M.C. | 3A, 3B |
| C21, 22 | 0601686 | 0.0068 μ F 50V M.C. | 3A, 3B |
| C23, 24 | 0601227 | 0.022 μ F 50V M.C. | 3A, 3B |
| C25, 26 | 0601687 | 0.068 μ F 50V M.C. | 3A, 3B |
| C27, 28 | 0601106 | 0.001 μ F 50V M.C. | 1A, 1B |
| C29, 30 | 0601156 | 0.0015 μ F 50V M.C. | 1A, 1B |
| C31, 32 | 0601276 | 0.0027 μ F 50V M.C. | 1A, 1B |
| R01, 02 | 0107474 | 470k Ω | 2A, B, 2B |
| R03, 04 | 0107474 | 470k Ω | 2A, B, 2B |
| R05, 06 | 0107393 | 39k Ω | 1B |
| R07, 08 | 0107394 | 390k Ω | 2B, 2A, B |
| R09, 10 | 0107274 | 270k Ω | 1A |
| R11, 12 | 0107274 | 270k Ω | 1A |
| R13, 14 | 0107472 | 4.7k Ω | 1A, 1B |
| R15, 16 | 0107123 | 12k Ω | 1A, 1B |
| R17, 18 | 0107102 | 1k Ω | 1A, 1B |
| R19, 20 | 0107682 | 6.8k Ω | 1B |
| R21, 22 | 0107101 | 100 Ω | 2A, 2B |
| R23, 24 | 0107105 | 1M Ω | 2A, B, 2B |
| R25, 26 | 0107105 | 1M Ω | 2A, B, 2B |
| R27, 28 | 0107105 | 1M Ω | 3A, B, 3B |
| R29, 30 | 0107105 | 1M Ω | 3A, B, 3B |
| R31, 32 | 0107105 | 1M Ω | 3A, B, 3B |
| R33, 34 | 0107105 | 1M Ω | 3A, B, 3B |
| R35, 36 | 0107105 | 1M Ω | 3A, B, 3B |
| R37, 38 | 0107105 | 1M Ω | 3A, B, 3B |
| R39, 40 | 0107105 | 1M Ω | 1A, B, 1B |
| R41, 42 | 0107105 | 1M Ω | 1B |
| R43, 44 | 0107105 | 1M Ω | 1A, 1B |
| R45, 46 | 0107104 | 100k Ω | 1B |
| S01 | 1170500 | SLC14351 | 2A, B |
| S02 | 1170490 | SLC14301 | 3A, B |
| S03 | 1170490 | SLC14301 | 3A, B |
| S04 | 1170490 | SLC14301 | 2A, B |
| S05 | 1170490 | SLC14301 | 1A, B |

2SC1313

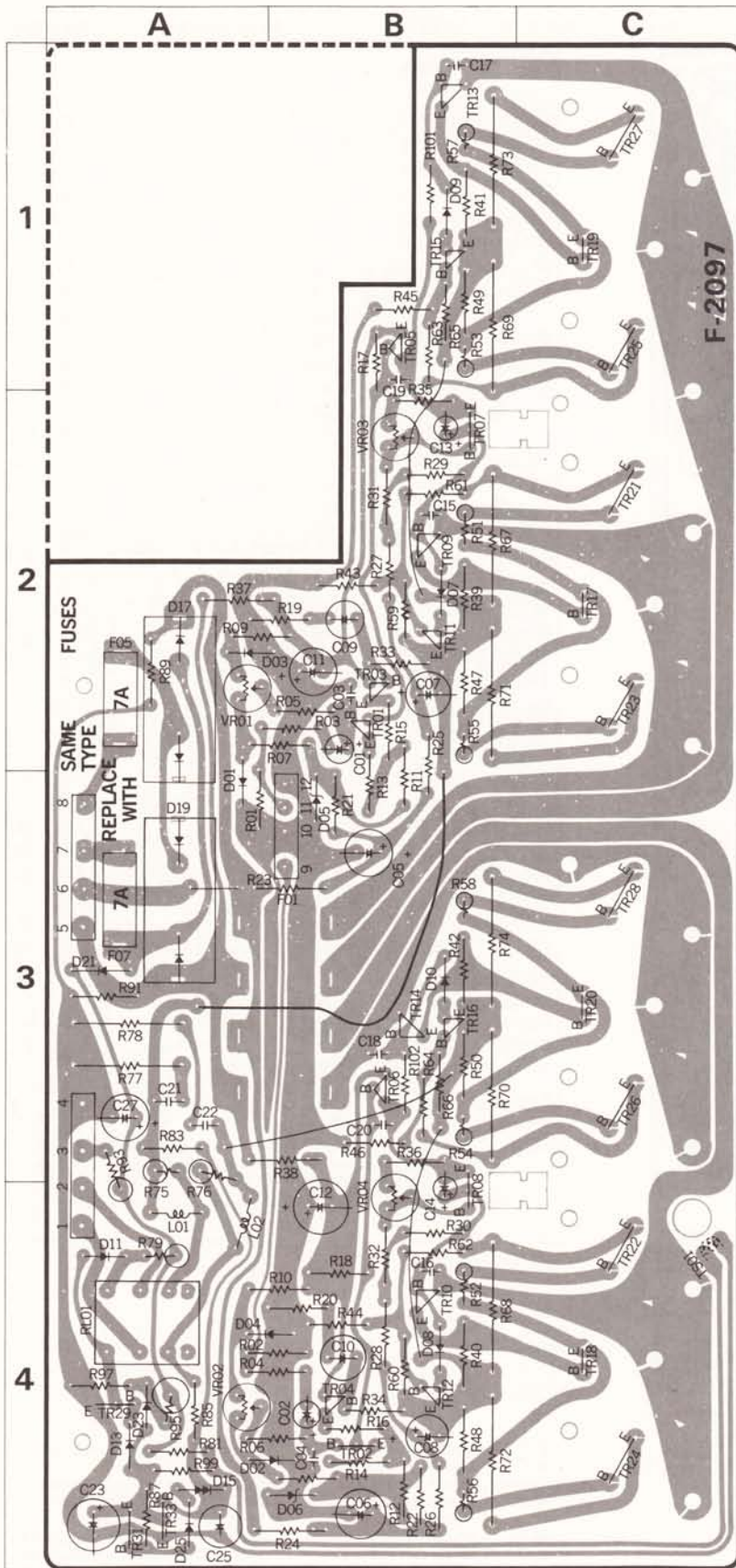


Abbreviations

| | |
|---------------------------------|------------------------------------------|
| C.R. : Carbon Resistor | BP.E.C.: Bi-Polar Electrolytic Capacitor |
| S.R. : Solid Resistor | C.C. : Ceramic capacitor |
| Ce.R. : Cement Resistor | Mi.C. : Mica Capacitor |
| M.R. : Metallized Film Resistor | O.C. : Oil Capacitor |
| M.C. : Mylar Capacitor | P.C. : Polystyrene Capacitor |
| E.C. : Electrolytic Capacitor | T.C. : Tantalum Capacitor |

5-4. F-2097 Driver & Power Supply Circuit Board (Stock No. 7570910 Complete Circuit Board F-2097)

Conductor Side



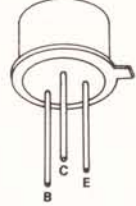
2SA726
2SC711



2SC735
2SA662



2SA606
2SC959



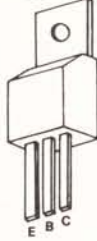
RD-9.1E



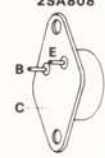
2SC1364
2SA733
2SC945



2SC1124



2SC1619
2SA808



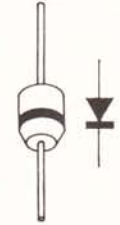
2SD382
2SB537



1S953



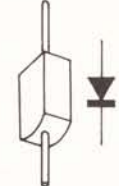
10D-1



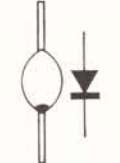
1N-60



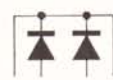
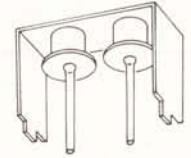
SV-02



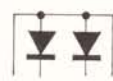
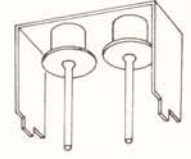
DS-430



SS-5



SS-5R



Parts List

| Parts No. | Stock No. | Description | Position |
|-----------|------------|--------------------------------------|-------------|
| TR01, 02 | 0300470, 1 | 2SA726 (F, G) | Transistor |
| TR03, 04 | 0300470, 1 | 2SA726 (F, G) | |
| TR05, 06 | 0305900, 1 | 2SC1124 (1, 2) | |
| TR07, 08 | 0305731-3 | 2SC711 (E, F, G) | |
| TR09, 10 | 0305742, 3 | 2SC959 (L, K) | |
| TR11, 12 | 0305640, 1 | 2SC735 (O, Y) | |
| TR13, 14 | 0300212, 3 | 2SA606 (L, K) | |
| TR15, 16 | 0300220, 1 | 2SA562 (O, Y) | |
| TR17, 18 | 0308441, 2 | 2SD382 (M, L) | |
| TR19, 20 | 0303271, 2 | 2SB537 (M, L) | |
| TR21, 22 | 0306190-3 | 2SC1619 (R, O, Y) | |
| TR23, 24 | 0306190-3 | 2SC1619 (R, O, Y) | |
| TR25, 26 | 0300630-3 | 2SA808 (R, O, Y) | |
| TR27, 28 | 0300630-3 | 2SA808 (R, O, Y) | |
| TR29 | 0306130-2 | 2SC1364 (5, 6, 7) | |
| TR31 | 0300510-2 | 2SA733 (P, Q, R) | |
| TR33 | 0305950-2 | 2SC945 (R, Q, P) | |
| D01, 02 | 0340090 | DS-430 | 2,3A,4A,B |
| D03, 04 | 0340090 | DS-430 | 2A,B,4A,B |
| D05, 06 | 0316230 | RD-9.1E(B) | 3 B . 4 B |
| D07, 08 | 0311050 | 1S953 | 2 B . 4 B |
| D09, 10 | 0311050 | 1S953 | 1 B . 3 B |
| D11 | 0310340 | 10D-1 | 4 A |
| D13 | 0311050 | 1S953 | 4 A |
| D15 | 0310490 | SV-02 | 4 A |
| D17 | 0311310 | SS-5 | 2 A |
| D19 | 0311320 | SS-5R | 3 A |
| D21 | 0310340 | 10D-1 | 3 A |
| D23 | 0310331 | 1N60 | 4 A |
| D25 | 0340090 | DS-430 | 4 A |
| D27 | 0310331 | 1N60 | |
| D28 | 0310031 | 1N60 | |
| TS01 | 0320110 | TS3-85 Thermistor | 4 C |
| C01, 02 | 0519105 | 2.2 μ F 50V E.C. | 2 B . 4 B |
| C03, 04 | 0660470 | 49pF 50V C.C. | 2 B . 4 B |
| C05, 06 | 0515101 | 100 μ F } 50V E.C. | 3 A . 4 B |
| C07, 08 | 0515470 | 47 μ F } 50V E.C. | 2 B . 4 B |
| C09, 10 | 0530470 | 47 μ F 6.3V E.C. | 2 B . 4 B |
| C11, 12 | 0515101 | 100 μ F } 50V E.C. | 2 B . 4 B |
| C13, 14 | 0515109 | 1 μ F } 50V E.C. | 2 B . 4A, B |
| C15, 16 | 0660100 | 10pF } 50V C.C. | 2 B . 4 B |
| C17, 18 | 0660100 | 10pF } 50V C.C. | 1 B . 3 A |
| C19, 20 | 0660220 | 22pF } 50V C.C. | 1 B . 3 A |
| C21, 22 | 0601687 | 0.068 μ F 50V M.C. | 3 A |
| C23 | 0510471 | 470 μ F 6.3V E.C. | 4 A |
| C25 | 0531101 | 100 μ F 10V E.C. | 4 A |
| C27 | 0515330 | 33 μ F 50V E.C. | 3 A |
| C901 | 0601106 | 0.001 μ F } 50V M.C. | |
| C903, 904 | 0601107 | 0.01 μ F } 50V M.C. | |
| R01, 02 | 0107474 | 470k Ω } $\frac{1}{4}$ W C.R. | 3 A . 4A,B |
| R03, 04 | 0107103 | 10k Ω } $\frac{1}{4}$ W C.R. | 2A,B,4A,B |
| R05, 06 | 0107104 | 100k Ω } $\frac{1}{4}$ W C.R. | 2 B . 4A,B |
| R07, 08 | 0107822 | 8.2k Ω } $\frac{1}{4}$ W C.R. | 2A, B . 4 B |
| R09, 10 | 0107393 | 39k Ω } $\frac{1}{4}$ W C.R. | 2A,B,4A,B |
| R11, 12 | 0107472 | 4.7k Ω } $\frac{1}{4}$ W C.R. | 2, 3B . 4 B |
| R13, 14 | 0107220 | 22 Ω } $\frac{1}{4}$ W C.R. | 2, 2B . 4 B |
| R15, 16 | 0107220 | 22 Ω } $\frac{1}{4}$ W C.R. | 2 B . 4 B |
| R17, 18 | 0107821 | 820 Ω } $\frac{1}{4}$ W C.R. | 1, 2 B . 4B |
| R19, 20 | 0107332 | 3.3k Ω } $\frac{1}{4}$ W C.R. | 2A, B . 4B |

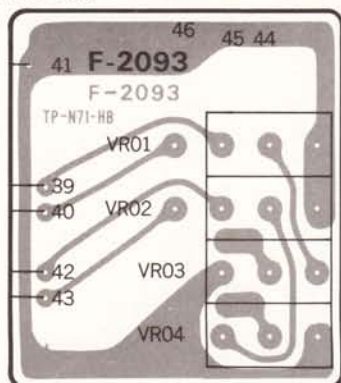
| Parts No. | Stock No. | Description | Position |
|-----------|-----------|--------------------------------------------|-------------|
| R21, 22 | 0103472 | 4.7k Ω } $\frac{1}{2}$ W C.R. | 3 B . 4 B |
| R23, 24 | 0103181 | 180 Ω } $\frac{1}{2}$ W C.R. | 3A,B,4A,B |
| R25, 26 | 0103102 | 1k Ω } $\frac{1}{2}$ W C.R. | 2,3 B . 4 B |
| R27, 28 | 0103472 | 4.7k Ω } $\frac{1}{2}$ W C.R. | 2 B . 4 B |
| R29, 30 | 0107390 | 39 Ω } $\frac{1}{4}$ W C.R. | 2 B . 4 B |
| R31, 32 | 0107682 | 6.8k Ω } $\frac{1}{4}$ W C.R. | 2 B . 4 B |
| R33, 34 | 0107104 | 100k Ω } $\frac{1}{4}$ W C.R. | 2 B . 4 B |
| R35, 36 | 0107122 | 1.2k Ω } $\frac{1}{4}$ W C.R. | 2 B . 3 B |
| R37, 38 | 0103101 | 100 Ω } $\frac{1}{2}$ W C.R. | 2A,B,3AB |
| R39, 40 | 0103102 | 1k Ω } $\frac{1}{2}$ W C.R. | 2 B . 4 B |
| R41, 42 | 0103102 | 1k Ω } $\frac{1}{2}$ W C.R. | 1 B . 3 B |
| R43, 44 | 0107183 | 18k Ω } $\frac{1}{4}$ W C.R. | 2 B . 4 B |
| R45, 46 | 0107183 | 18k Ω } $\frac{1}{4}$ W C.R. | 1 B . 3 B |
| R47, 48 | 0103101 | 100 Ω } $\frac{1}{2}$ W C.R. | 2 B . 4 B |
| R49, 50 | 0103101 | 100 Ω } $\frac{1}{2}$ W C.R. | 1 B . 3 B |
| R51, 52 | 0103100 | 10 Ω } $\frac{1}{2}$ W C.R. | 2 B . 4 B |
| R53, 54 | 0103100 | 10 Ω } $\frac{1}{2}$ W C.R. | 1 B . 3 B |
| R55, 56 | 0103100 | 10 Ω } $\frac{1}{2}$ W C.R. | 2 B . 4 B |
| R57, 58 | 0103100 | 10 Ω } $\frac{1}{2}$ W C.R. | 1 B . 3 B |
| R59, 60 | 0107102 | 1k Ω } $\frac{1}{4}$ W C.R. | 2 B . 4 B |
| R61, 62 | 0107471 | 470 Ω } $\frac{1}{4}$ W C.R. | 2 B . 4 B |
| R63, 64 | 0107471 | 470 Ω } $\frac{1}{4}$ W C.R. | 1 B . 3 B |
| R65, 66 | 0107102 | 1k Ω } $\frac{1}{4}$ W C.R. | 1 B . 3 B |
| R67, 68 | 0133478 | 0.47 Ω } 3W Ce.R. | 2 B . 4 B |
| R69, 70 | 0133478 | 0.47 Ω } 3W Ce.R. | 1,2 B . 3B |
| R71, 72 | 0133478 | 0.47 Ω } 3W Ce.R. | 2 B . 4 B |
| R73, 74 | 0133478 | 0.47 Ω } 3W Ce.R. | 1 B . 3 B |
| R75 | 0104479 | 4.7 Ω } 1W C.R. | 3 A |
| R76 | 0104479 | 4.7 Ω } 1W C.R. | 3 A |
| R77 | 0105100 | 10 Ω } 2W C.R. | 3 A |
| R78 | 0105100 | 10 Ω } 2W C.R. | 3 A |
| R79 | 0104181 | 180 Ω } 1W C.R. | 4 A |
| R81 | 0107823 | 82k Ω } $\frac{1}{4}$ W C.R. | 4 A |
| R83 | 0107823 | 82k Ω } $\frac{1}{4}$ W C.R. | 3 A |
| R85 | 0107104 | 100k Ω } $\frac{1}{4}$ W C.R. | 4 A |
| R87 | 0107473 | 47k Ω } $\frac{1}{4}$ W C.R. | 4 A |
| R89 | 0103682 | 6.8k Ω } $\frac{1}{2}$ W C.R. | 2 A |
| R91 | 0103682 | 6.8k Ω } $\frac{1}{2}$ W C.R. | 3 A |
| R93 | 0105182 | 1.8k Ω } 2W C.R. | 3, 4 A |
| R95 | 0105182 | 1.8k Ω } 2W C.R. | 4 A |
| R97 | 0107221 | 220 Ω } $\frac{1}{4}$ W C.R. | 4 A |
| R99 | 0107223 | 22k Ω } $\frac{1}{4}$ W C.R. | 4 A |
| R100, 101 | 0107102 | 1k Ω } $\frac{1}{4}$ W C.R. | 1 B |
| RL01 | 1150251 | RABK-2B Relay | 4 A |
| L01, 02 | 4290210 | 2.5 μ H Micro Inductor | 4 A, B |
| F05, 07 | 0430920 | 7A (20m/m) Fuse | 2 A . 3 A |
| VR01, 02 | 1035110 | 4.7k Ω (B) } Semi Variable Resistor | 2 A |
| VR03, 04 | 1035070 | 1k Ω (B) } Semi Variable Resistor | 2 B . 3, 4B |
| | 2310150 | Fuse Holder | |
| | 5937061 | Heat Sink | |

Abbreviations

| | |
|---------------------------------|-------------------------------------------|
| C.R. : Carbon Resistor | B.P.E.C.: Bi-Polar Electrolytic Capacitor |
| S.R. : Solid Resistor | C.C. : Ceramic capacitor |
| Ce.R. : Cement Resistor | Mi.C. : Mica Capacitor |
| M.R. : Metallized Film Resistor | O.C. : Oil Capacitor |
| M.C. : Mylar Capacitor | P.C. : Polystyrene Capacitor |
| E.C. : Electrolytic Capacitor | T.C. : Tantalum Capacitor |

5-5. F-2093 Volume Circuit Board

Conductor Side



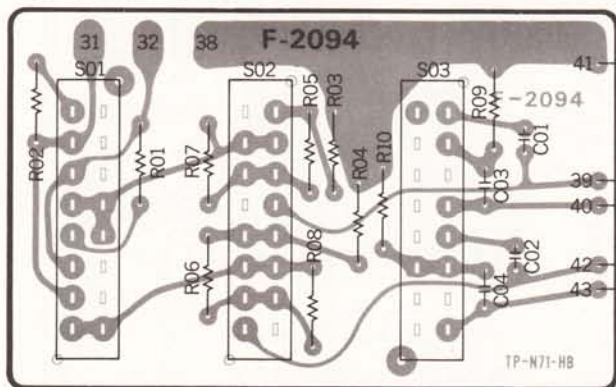
Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|----------------------------------|
| VR01-04 | 1060320 | 250kΩ (MN,B)×4 Variable Resistor |

5-6. F-2094 Accessory Switch Circuit Board

(Stock No. 7592120 Complete Circuit Board F-2094)

Conductor Side



Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|------------------|
| C01, 02 | 0660391 | 390pF 50V C.C. |
| C03, 04 | 0601227 | 0.022μF 50V M.C. |
| R01, 02 | 0107103 | 10kΩ |
| R03, 04 | 0107103 | 10kΩ |
| R05, 06 | 0107823 | 82kΩ |
| R07, 08 | 0107184 | 180kΩ |
| R09, 10 | 0107223 | 22kΩ |
| S01 | 1170500 | SLC14351 |
| S02 | 1170490 | SLC14301 |
| S03 | 1170490 | SLC14301 |

} 1/4 W C.R.
} Lever Switch

5-7. Other Parts (Front Side)

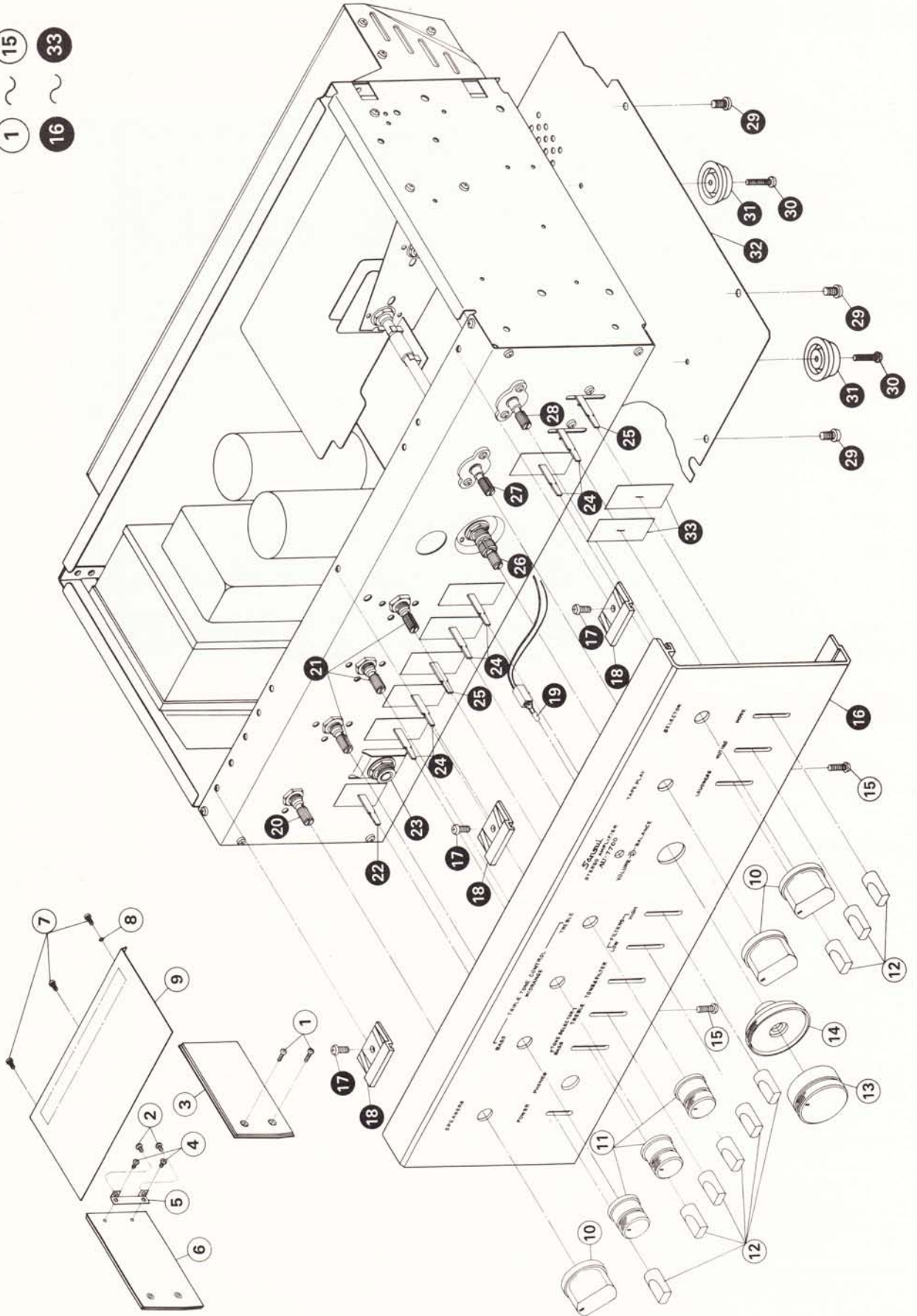
Parts List

| Parts No. | Stock No. | Description |
|-----------|------------|----------------------------------------|
| 1 | 5101161 | Binding Head Screw, M4×6 |
| 2 | 5109222 | Binding Head Tapping Screw, M3×8 |
| 3 | 5309270 | Side Panel (Right) |
| 4 | 5109121 | Binding Head Tapping Screw, M3×6 |
| 5 | 5269830 | Side Panel Retainer |
| 6 | 5309260 | Side Panel (Left) |
| 7 | 5109222 | Binding Head Tapping Screw, M3×8 |
| 8 | 5122540 | Toothed Lock Washer (External), 3φ |
| 9 | 5006340 | Metal Bonnet |
| 10 | 5317880 | S-5 Type Knob |
| 11 | 5318040 | S-5 Type Knob (Tone Control) |
| 12 | 5326460 | E-1 Type Knob (Lever Switch) |
| 13 | 5318001 | W0-3 Type Knob (Volume) |
| 14 | 5318080 | U-5 Type Knob (Balance) |
| 15 | 5109222 | Binding Head Tapping Screw, M3×8 |
| 16 | { 5309210 | Front Panel |
| | { 5269800 | Holder (Light Emitted Diode) |
| 17 | 5109222 | Binding Head Tapping Screw, M3×8 |
| 18 | 5269880 | Stopper (Front Panel) |
| 19 | 7726080 | Light Emitted Diode (SDB-501A-RD) |
| 20 | 1101560, 1 | Rotary Switch Y-1-4-4 (Speaker) |
| 21 | 1090060, 1 | 50kΩ (B)×2 Tone Control Volume |
| 22 | 1170330 | Lever Switch (Power) |
| 23 | 2430190 | Headphone Jack |
| 24 | 1170490 | Lever Switch (Control) |
| 25 | 1170500 | Lever Switch (Control, Mode) |
| 26 | 1060320 | 250kΩ (MN, B)×4 Volume, Balance Volume |
| 27 | 1102560 | Rotary Switch SRE2-6-7 (Tape Play) |
| 28 | 1102550 | Rotary Switch SRE2-4-5 (Selector) |
| 29 | 5109222 | Binding Head Tapping Screw, M3×8 |
| 30 | 5166520 | Washer Head Tapping Screw, M3×12 |
| 31 | 5516940 | Foot |
| 32 | 5058220 | Bottom Plate |
| 33 | 5047470 | Masking (Lever Switch) |

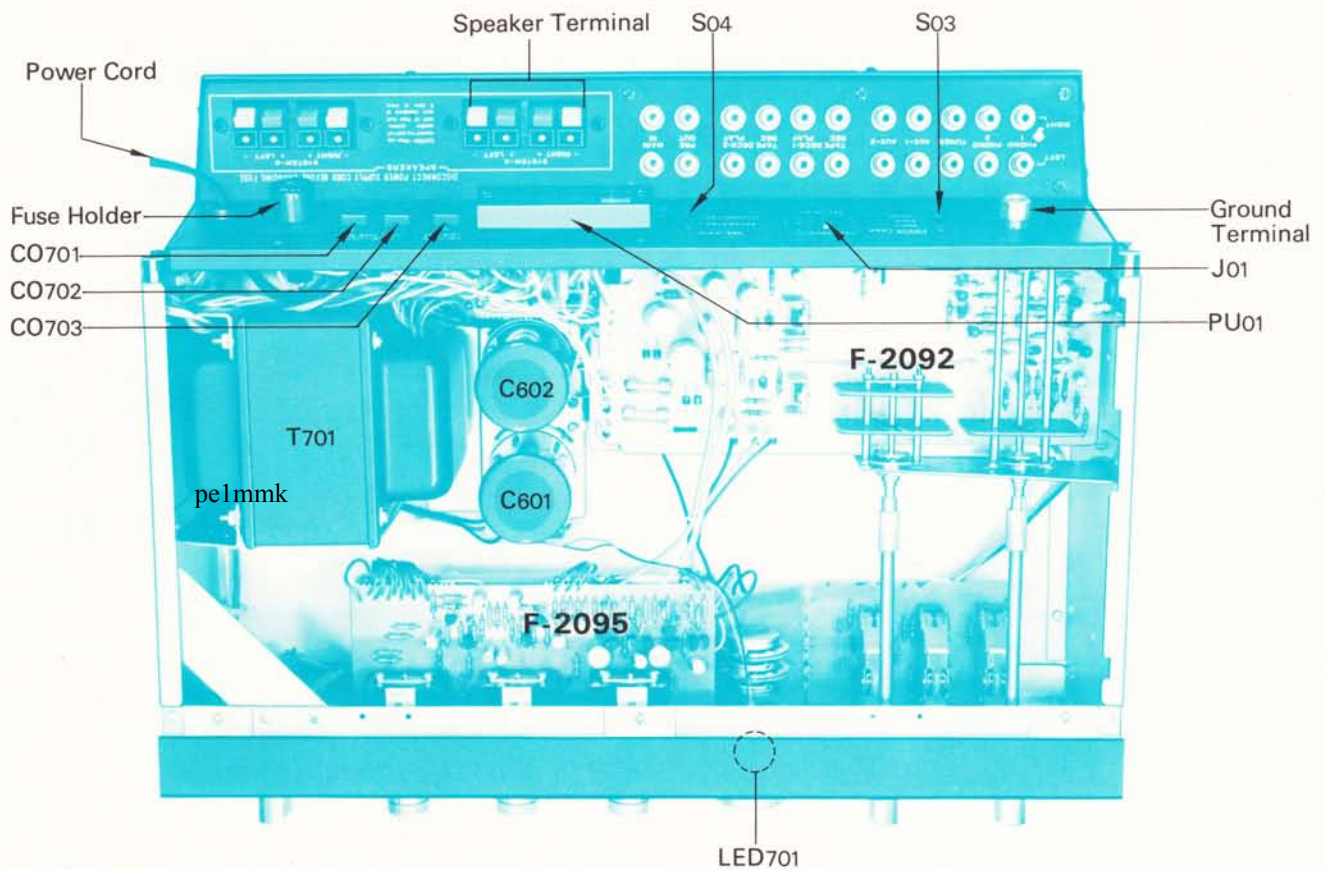
Abbreviations

| | |
|----------------------------------------|-------------------------------------------------|
| C.R. : Carbon Resistor | BP.E.C.: Bi-Polar Electrolytic Capacitor |
| S.R. : Solid Resistor | C.C. : Ceramic capacitor |
| Ce.R. : Cement Resistor | Mi.C. : Mica Capacitor |
| M.R. : Metallized Film Resistor | O.C. : Oil Capacitor |
| M.C. : Mylar Capacitor | P.C. : Polystyrene Capacitor |
| E.C. : Electrolytic Capacitor | T.C. : Tantalum Capacitor |

- 1 ~ 15
- 16 ~ 33



5-8. Other Parts (Top Side)

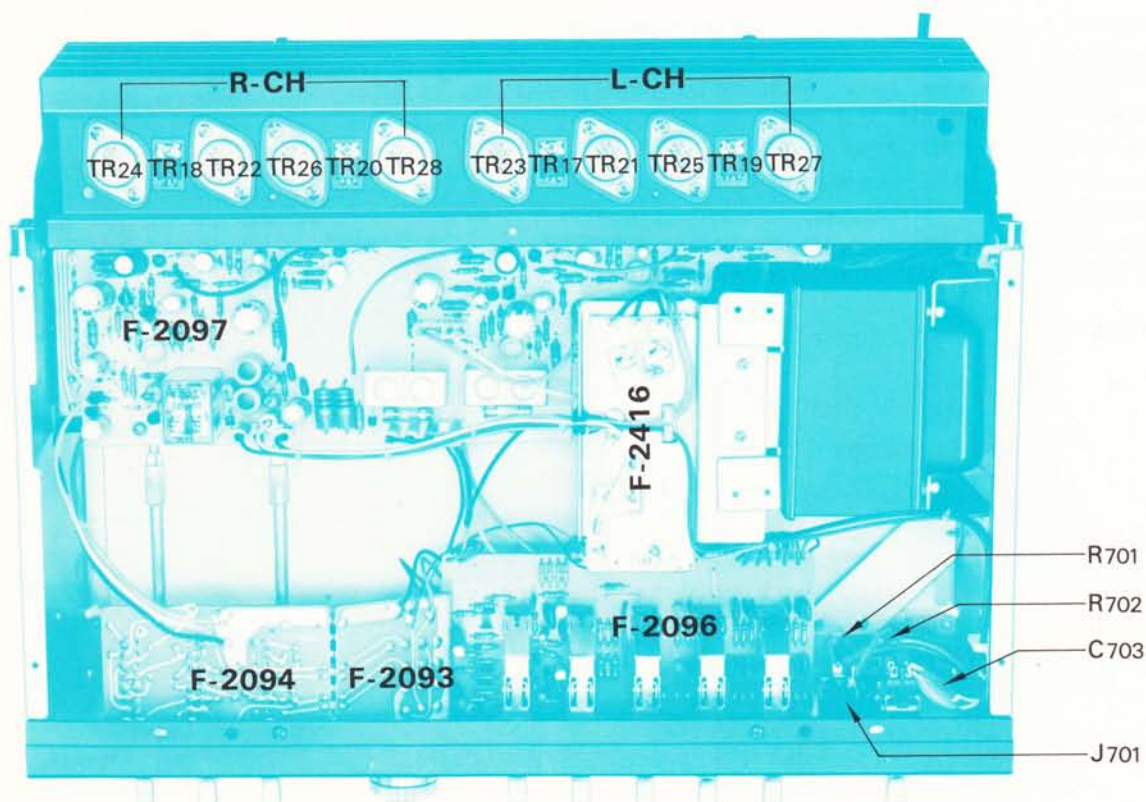


Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|---------------------------------|
| C601 | 0559360 | 10000 μ F } 50V E.C. |
| C602 | 0559360 | |
| LED701 | 7726080 | SDB-501A-RD Light Emitted Diode |
| J01 | 2090040 | DIN Jack |
| S03 | 1110290 | SSB02332 } Slide Switch |
| S04 | 1110280 | |
| CO701-703 | 2450050 | AC Outlet |
| F701 | 0431290 | 6A Power Fuse (100~117V) |
| | 0431260 | 3A Power Fuse (220~240V) |
| | 2300060 | Fuse Holder |
| T701 | 4002110 | Power Transformer |

| Parts No. | Stock No. | Description |
|-----------|-----------|--------------------------|
| PU01 | 2410080 | Voltage Selector, socket |
| | 2410090 | Voltage Selector, plug |
| | 2290100 | 4P Speaker Terminal |
| | 3800020 | Power Cord (KP-200) |
| | 2230050 | Ground Terminal |

5-9. Other Parts (Bottom Side)



Parts List

| Parts No. | Stock No. | Description |
|-----------|------------|-------------------------|
| TR17 | 0308441, 2 | 2SD382 (M, L) |
| TR18 | 0308441, 2 | 2SD382 (M, L) |
| TR19 | 0303271, 2 | 2SB537 (M, L) |
| TR20 | 0303271, 2 | 2SB537 (M, L) |
| TR21 | 0306190~3 | 2SC1619 (R, O, Y) |
| TR22 | 0306190~3 | 2SC1619 (R, O, Y) |
| TR23 | 0306190~3 | 2SC1619 (R, O, Y) |
| TR24 | 0306190~3 | 2SC1619 (R, O, Y) |
| TR25 | 0300630~3 | 2SA808 (R, O, Y) |
| TR26 | 0300630~3 | 2SA808 (R, O, Y) |
| TR27 | 0300630~3 | 2SA808 (R, O, Y) |
| TR28 | 0300630~3 | 2SA808 (R, O, Y) |
| | | } Transistor |
| C703 | 0659801 | 0.01 μ F 1.4kV C.C. |
| R701 | 0104221 | 220 Ω } 1W C.R. |
| R702 | 0104221 | 220 Ω } |
| J701 | 2430190 | Headphone Jack |

Abbreviations

- C.R. : Carbon Resistor
- S.R. : Solid Resistor
- Ce.R. : Cement Resistor
- M.R. : Metallized Film Resistor
- M.C. : Mylar Capacitor
- E.C. : Electrolytic Capacitor
- BP.E.C.: Bi-Polar Electrolytic Capacitor
- C.C. : Ceramic capacitor
- Mi.C. : Mica Capacitor
- O.C. : Oil Capacitor
- P.C. : Polystyrene Capacitor
- T.C. : Tantalum Capacitor

6. REPLACEMENT OF POWER TRANSISTORS

- 1) Remove 4 pcs-screws installing on left (or right) side panel.
- 2) Remove 11 pcs-screws installing on bottom plate.
- 3) Remove all connectors and screws, ① and ② (see Fig. 6-1) installing on F-2097.
- 4) Remove screw, ③, ④, ⑤ and ⑥ (see Fig. 6-2) installing heat sink.
- 5) Remove driver & power supply circuit board ass'y (F-2097), then replace the transistors with new ones.

Fig. 6-1

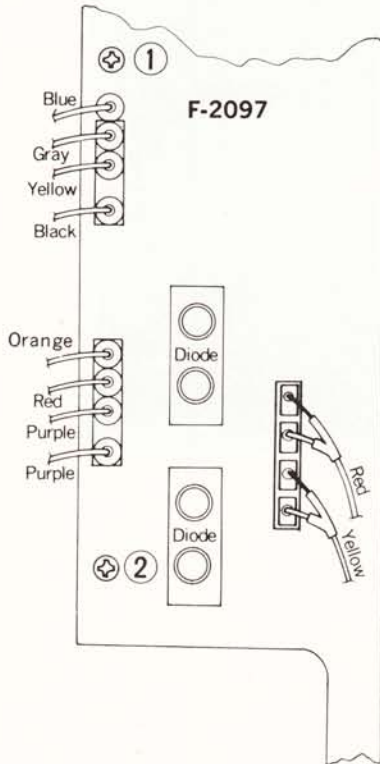
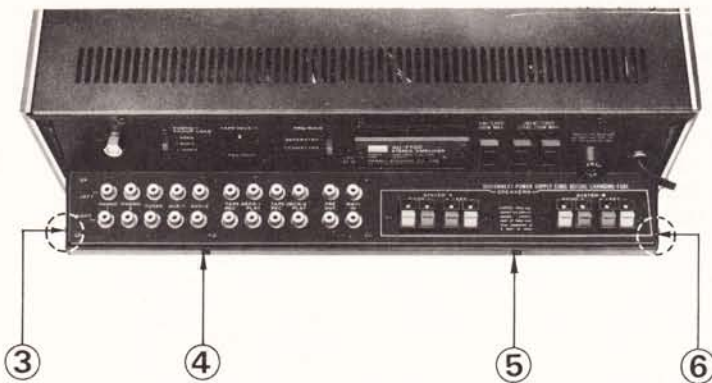
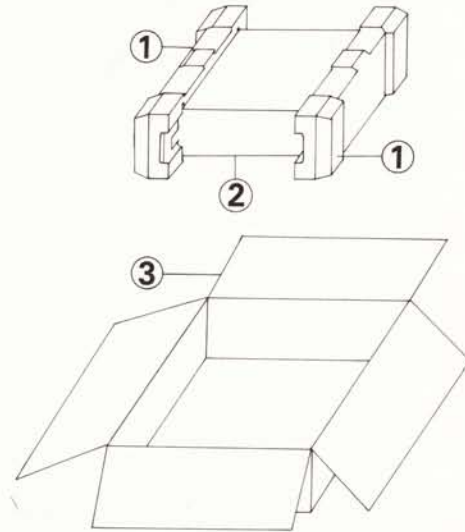


Fig. 6-2



7. PACKING LIST

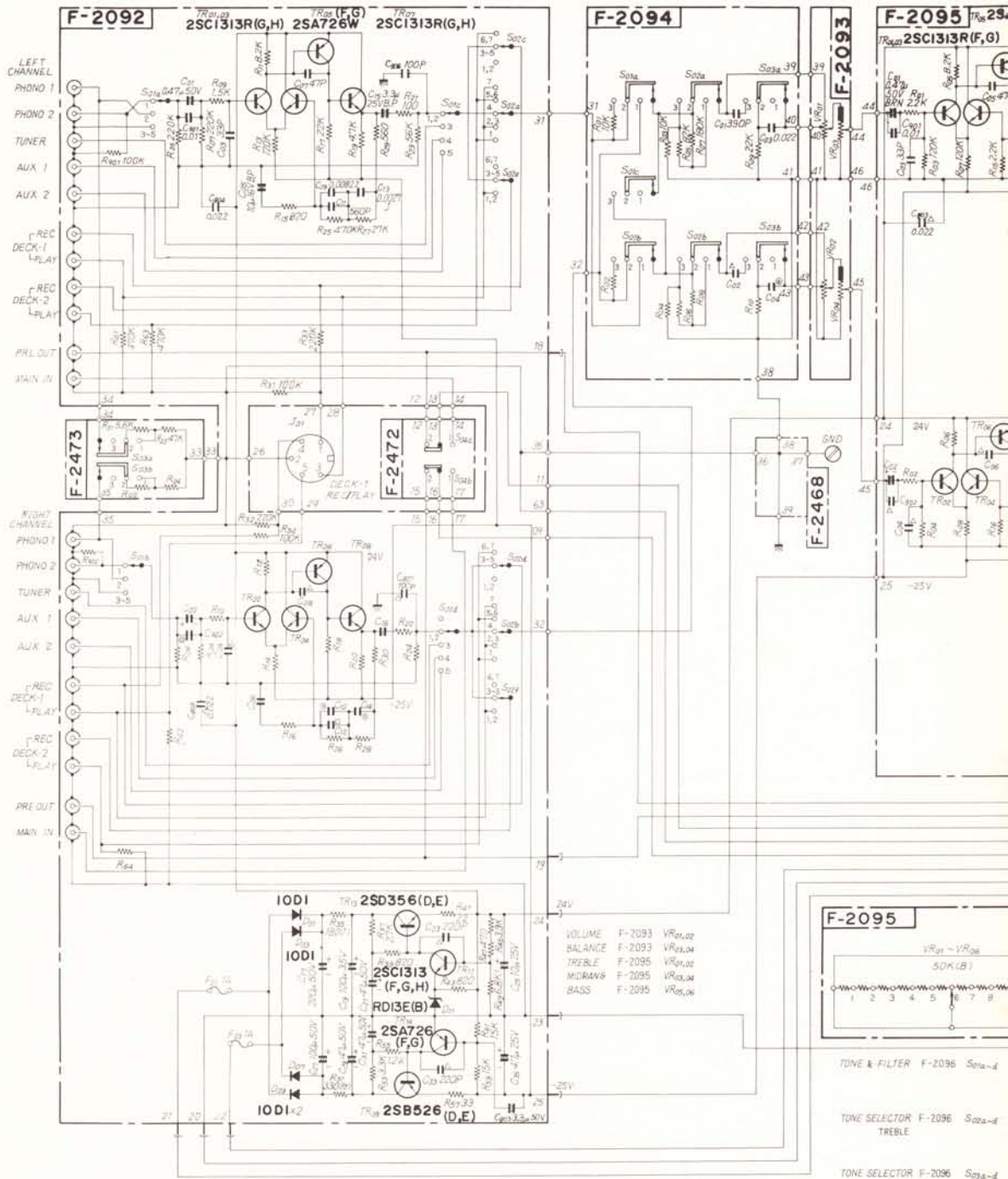
| Parts No. | Stock No. | Description |
|-----------|-----------|-------------------|
| 1 | 9027810 | Stylofoam Packing |
| 2 | 9116152 | Vinyl Cover |
| 3 | 9008051 | Carton Case |



8. ACCESSORY PARTS LIST

| Stock No. | Description |
|-----------|-----------------------------|
| 5066250 | Pin Plug Cover |
| 9208250 | Operating Instructions |
| 9228250 | Operating Instruction Sheet |

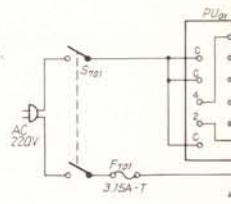
9. SCHEMATIC DIAGRAM



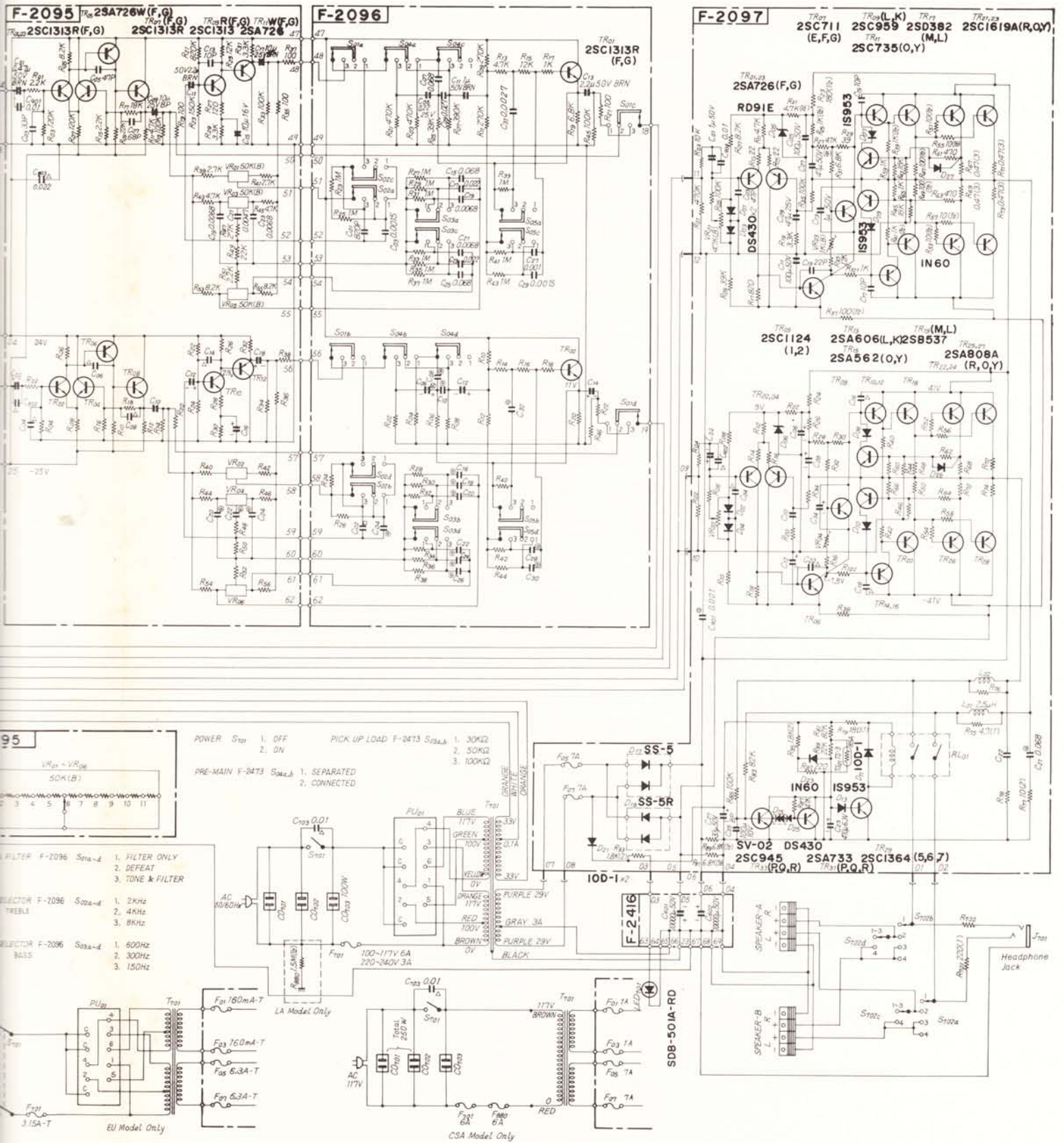
- | | | | |
|-------------------------------------|--------------------|----------------------------------------|---------------------|
| SELECTOR F-2092 S _{01a-d} | 1. PHONO 2 | MODE F-2094 S _{01a-c} | 1. REVERSE |
| | 2. PHONO 1 | | 2. NORMAL |
| | 3. TUNER | | 3. MONO |
| | 4. AUX 1 | MUTING F-2094 S _{02a,b} | 1. -15dB |
| | 5. AUX 2 | | 2. OUT |
| | | | 3. -30dB |
| TAPE PLAY F-2092 S _{02a-f} | 1. COPY 1-2 DECK-2 | LOUDNESS F-2094 S _{03a,b} | 1. LOW BOOST |
| | 2. " DECK-1 | | 2. OUT |
| | 3. DECK-1 | | 3. HIGH & LOW BOOST |
| | 4. SOURCE | FILTERS HIGH F-2096 S _{04a-d} | 1. 7KHz |
| | 5. DECK-2 | | 2. OUT |
| | 6. COPY 2-1 DECK-2 | | 3. 12KHz |
| | 7. " DECK-1 | FILTERS LOW F-2096 S _{04a-d} | 1. 60Hz |
| | | | 2. OUT |
| SPEAKERS S _{05a-d} | 1. OFF | | 3. 20Hz |
| | 2. A | | |
| | 3. B | | |
| | 4. A+B | | |

SYMBOL
 ▲ CERAMIC
 ● MYLAR
 ⊙ STYROL
 ⊛ TANTALUM

ALL RESISTORS 1/4 WATTS
 UNLESS OTHERWISE NOTED.



* Design and specifications subject to change without notice for improvements.





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