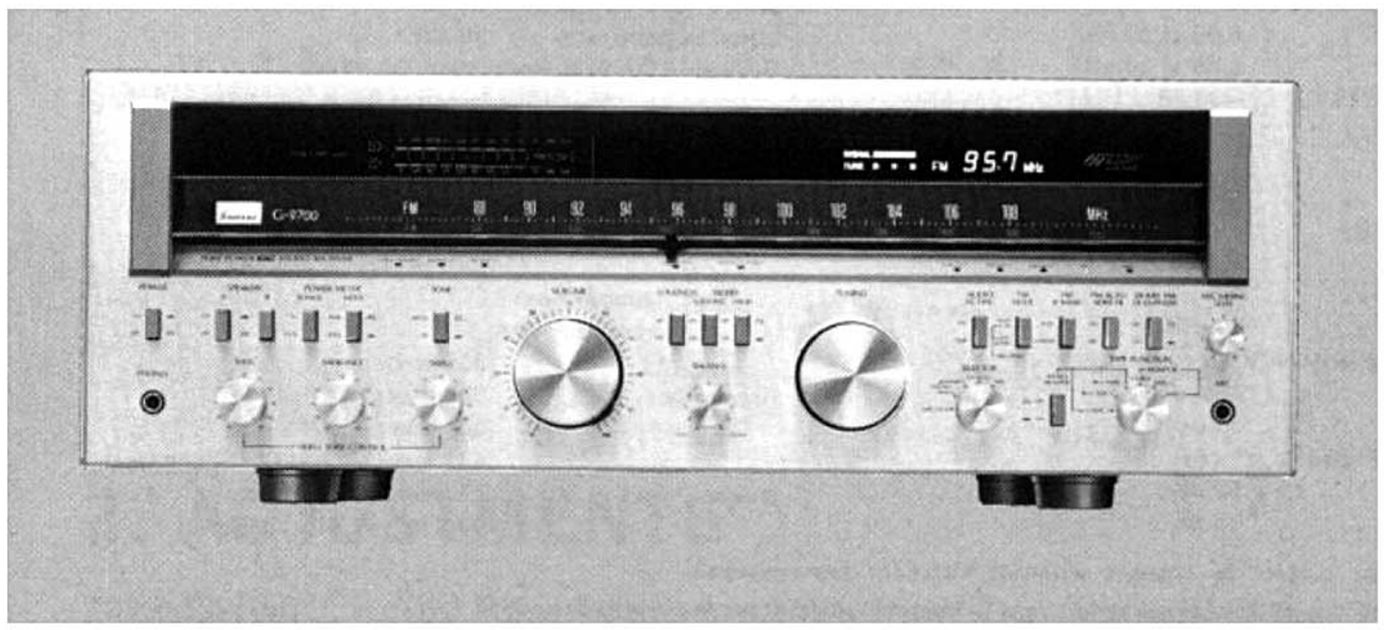
# SERVICE MANUAL

PURE POWER DC STEREO RECEIVER

# SANSUI G-9700/971
# G-8700DB/871DB



Sansui

SANSUI ELECTRIC CO., LTD.



## SPECIFICATIONS

### ● G-9700/971

**Audio section**

**Power output**
Min. RMS, both channels driven, from 20 to 20,000 Hz with no more than 0.02 % total harmonic distortion.
200 watts per channel into 8 ohms
**Load impedance** . . . . 8 ohms
**Total harmonic distortion**
. . . . . less than 0.02 % at or below rated min. RMS power output
**Intermodulation distortion** (70 Hz : 7 kHz = 4:1 SMPTE method) . . . . . less than 0.02 % at rated power output
**Rise time** . . . . . 1.4 μsec
**Slew rate** . . . . . 80 V/μsec
**Frequency response** (at 1 watt)
Overall (from TAPE/AUX)
. . . . . 5 to 80,000 Hz +0.2 dB, −2.0 dB
Power amplifier . . . DC to 200 kHz, +0 dB, −3.0 dB
**RIAA curve deviation** (PHONO, 20 Hz to 20 kHz)
. . . . . +0.2 dB, −0.2 dB
**Damping factor** (20 Hz to 20 kHz, both channels driven)
. . . . . 60 into 8 ohms
**Input sensitivity and impedance** (at 1 kHz)
PHONO-1, 2 . . . . 2.5 mV/47 kilohms
(Max. input capability: 280 mV at 1 kHz, less than 0.1 % total harmonic distortion)
MIC . . . . . 6 mV/10 kilohms
TAPE-1, 2 PLAY, TAPE/AUX
. . . . . 150 mV/47 kilohms
**Output level** (at 1 kHz)
TAPE-1, 2 REC . . . 150 mV
**Hum and noise** (short-circuit, A-network)
PHONO-1, 2 . . . . 78 dB
TAPE-1, 2 PLAY, TAPE/AUX
. . . . . 95 dB
**Channel separation** (at 1 kHz)
PHONO-1, 2 . . . . 60 dB
TAPE-1, 2 PLAY, TAPE/AUX
. . . . . 70 dB
**Controls**
BASS . . . . . ±10 dB at 50 Hz
MIDRANGE . . . . ±5 dB at 1.5 kHz
TREBLE . . . . . ±10 dB at 10 kHz
SUBSONIC FILTER
. . . . . −3 dB at 16 Hz (6 dB/oct)
HIGH FILTER . . . −3 dB at 3 kHz (6 dB/oct)
LOUDNESS (VOLUME control: −30 dB position)
. . . . . 8 dB at 50 Hz
6 dB at 10 kHz
AUDIO MUTING . −20 dB

**FM section**

**Tuning range** . . . . . 88 to 108 MHz
**Usable sensitivity**
Mono IHF . . . . . 9.8 dBf (1.7 μV)
DIN . . . . . 1.0 μV
Stereo IHF . . . . . 17 dBf
**50 dB quieting sensitivity**
Mono . . . . . 12.5 dBf
Stereo . . . . . 35 dBf
**Signal to noise ratio** (at 65 dBf)
Mono . . . . . 82 dB
Stereo . . . . . 76 dB
**Distortion** (at 65 dBf)
Mono . . . . . less than 0.05 % at 100 Hz
less than 0.05 % at 1,000 Hz
less than 0.08 % at 6,000 Hz
Stereo . . . . . less than 0.1 % at 100 Hz
less than 0.07 % at 1,000 Hz
less than 0.08 % at 6,000 Hz
**Alternate channel selectivity** (at 400 kHz)
WIDE . . . . . 60 dB
NARROW . . . . . 80 dB
**Capture ratio** . . . . . 1.0 dB
**Image response ratio** . . 90 dB
**Spurious response ratio**
. . . . . 95 dB
**IF response ratio** . . . . 95 dB
**Stereo separation** . . . . 40 dB at 100 Hz
45 dB at 1,000 Hz
35 dB at 10,000 Hz
30 dB from 30 to 15,000 Hz
**Frequency response** . . 30 to 15,000 Hz
+0.2 dB, −1.0 dB
**Antenna input impedance**
. . . . . 300 ohms balanced
75 ohms unbalanced

to be continued ▶

Specifications

## AM section

Tuning range . . . . . 530 to 1,600 kHz
Usable sensitivity (bar antenna)
. . . . . 50 dB/m (300 μV/m)
Selectivity . . . . . 30 dB
Signal to noise ratio . . 50 dB
Distortion (at 30 % Modulation, 80 dB/m)
. . . . . less than 0.5 %

## Others

Power requirements
Power voltage . . . . 100, 120, 220, 240 V (50/60 Hz)
For U.S.A. and Canada
. . . . . 120 V (60 Hz)
Power consumption
Rated consumption
. . . . . 600 watts 750 VA
Dimensions . . . . . 560 mm (22-1/16") W
201 mm (7-15/16") H
495 mm (19-1/2") D
Weight . . . . . 22.2 kg (48.9 lbs) net
24.8 kg (54.7 lbs) packed

# ● G-8700DB/871DB

## Audio section

Power output
Min. RMS, both channels driven, from 20 to 20,000 Hz with no more than 0.025 % total harmonic distortion.
160 watts per channel into 8 ohms
Load impedance . . . . 8 ohms
Total harmonic distortion
. . . . . less than 0.025 % at or below rated min. RMS power output
Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method) . . . . . less than 0.025 % at rated power output
Rise time . . . . . 1.4 μsec
Slew rate . . . . . 76 V/μsec
Frequency response (at 1 watt)
Overall (from TAPE/AUX)
. . . . . 5 to 80,000 Hz
+0.2 dB, −2.0 dB
Power amplifier . . . DC to 200 kHz,
+0 dB, −3.0 dB
RIAA curve deviation (PHONO, 30 Hz to 20 kHz)
. . . . . +0.2 dB, −0.2 dB
Damping factor (20 Hz to 20 kHz, both channels driven)
. . . . . 60 into 8 ohms
Input sensitivity and impedance (at 1 kHz)
PHONO-1, 2 . . . . 2.5 mV/47 kilohms
(Max. input capability: 250 mV at 1 kHz, less than 0.1 % total harmonic distortion)
MIC . . . . . 6 mV/10 kilohms
TAPE-1, 2 PLAY, TAPE/AUX
. . . . . 150 mV/47 kilohms
Output level (at 1 kHz)
TAPE-1, 2 REC . . . 150 mV
Hum and noise (short-circuit, A-network)
PHONO-1, 2 . . . . 78 dB
TAPE-1, 2 PLAY, TAPE/AUX
. . . . . 95 dB
Channel separation (at 1 kHz)
PHONO-1, 2 . . . . 60 dB
TAPE-1, 2 PLAY, TAPE/AUX
. . . . . 70 dB
Controls
BASS . . . . . ±10 dB at 50 Hz
MIDRANGE . . . . ±5 dB at 1.5 kHz
TREBLE . . . . . ±10 dB at 10 kHz
SUBSONIC FILTER
. . . . . −3 dB at 16 Hz (6 dB/oct)
HIGH FILTER . . . −3 dB at 3 kHz (6 dB/oct)
LOUDNESS (VOLUME control: −30 dB position)
. . . . . 8 dB at 50 Hz
6 dB at 10 kHz
AUDIO MUTING . −20 dB

## FM section

Tuning range . . . . . 88 to 108 MHz
Usable sensitivity
Mono IHF . . . . . 9.8 dBf (1.7 μV)
DIN . . . . . 1.0 μV
Stereo IHF . . . . . 17 dBf
50 dB quieting sensitivity
Mono . . . . . 12.5 dBf
Stereo . . . . . 35 dBf
Signal to noise ratio (at 65 dBf)
Mono . . . . . 82 dB
Stereo . . . . . 76 dB
Distortion (at 65 dBf)
Mono . . . . . less than 0.08 % at 100 Hz
less than 0.07 % at 1,000 Hz
less than 0.08 % at 6,000 Hz
Stereo . . . . . less than 0.1 % at 100 Hz
less than 0.1 % at 1,000 Hz
less than 0.15 % at 6,000 Hz
Alternate channel selectivity (at 400 kHz)
. . . . . 70 dB
※ Dolby Noise Reduction Effect
. . . . . 10 dB
Capture ratio . . . . . 1.0 dB
Image response ratio . . 90 dB
Spurious response ratio
. . . . . 95 dB
IF response ratio . . . . 95 dB
Stereo separation . . . . 40 dB at 100 Hz
45 dB at 1,000 Hz
35 dB at 10,000 Hz
30 dB from 30 to 15,000 Hz
Frequency response . . 30 to 15,000 Hz
+0.2 dB, −1.0 dB
Antenna input impedance
. . . . . 300 ohms balanced
75 ohms unbalanced

## AM section

Tuning range . . . . . 530 to 1,600 kHz
Usable sensitivity (bar antenna)
. . . . . 50 dB/m (300 μV/m)
Selectivity . . . . . 30 dB
Signal to noise ratio . . 50 dB
Distortion (at 30 % Modulation, 80 dB/m)
. . . . . less than 0.5 %

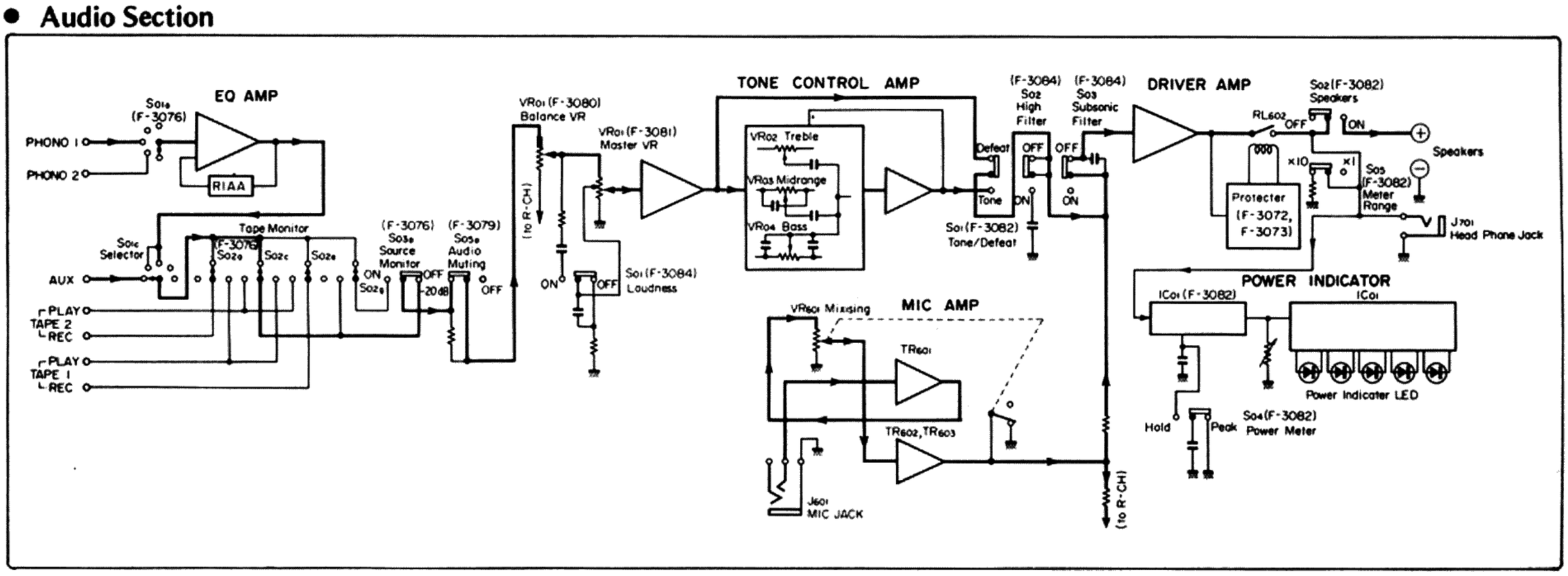
## Others

Power requirements
Power voltage . . . . 100, 120, 220, 240 V (50/60 Hz)
Power consumption
Rated consumption
. . . . . 500 watts
Dimensions . . . . . 560 mm (22-1/16") W
201 mm (7-15/16") H
475 mm (18-3/4") D
Weight . . . . . 21.0 kg (46.3 lbs) net
23.7 kg (52.2 lbs) packed

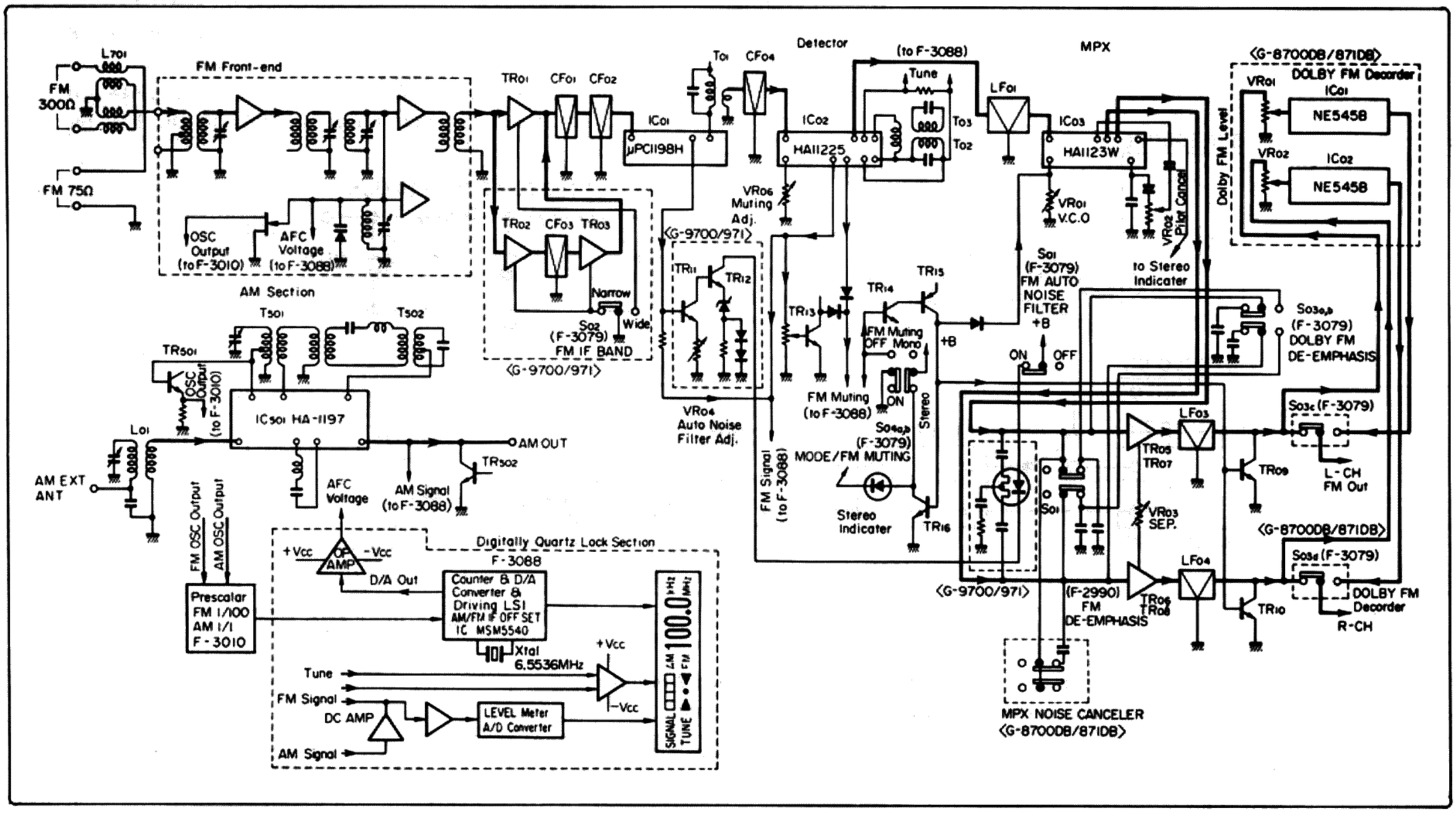
* Design and specifications subject to changes without notice for improvements.
* In order to simplify the explanation illustrations may sometimes differ from the originals.
※ Dolby is a trademark of Dolby Laboratories, Inc.

# 1. BLOCK DIAGRAM

## ● Audio Section



## ● Tuner Section




# 2. ADJUSTMENTS

## 2-1. Driver Circuit Board Adjustments (See Top View on Page 13 & 14)

Note: 1. Master Volume . . . . . Minimum
2. Room Temperature . . . 18°C ~ 28°C (65°F ~ 83°F)
3. For Adjustment, run the unit for more than 5 minutes after the power is switched on.

| STEP | SUBJECT | MEASURE OUTPUT | ADJUST | ADJUST FOR | REMARKS |
|---|---|---|---|---|---|
| 1. | DC 0V Adj. L-CH | Speaker terminal (L-CH) | VR01 (L-CH) F-3074 | DC 0V ±5 mV | Before turning ON power switch, set VR to center position. |
| 2. | DC 0V Adj. R-CH | Speaker terminal (R-CH) | VR01 (R-CH) F-3074 | | |
| 3. | Bias Current Adj. L-CH | Between emitter terminals of TR02 and TR03 on F-3114 (As shown Ⓔ in Figs. 4-1 & 4-3 on page 13 & 14) | VR03 (L-CH) F-3074 | DC ±5 mV | • Before turning ON power switch, turn VR03 fully counterclockwise. This bias current adjustment converts current value into voltage by Ohms law. |
| 4. | Bias Current Adj. R-CH | Between emitter terminals of TR02 and TR03 on F-3115 (As shown Ⓔ in Figs. 4-1 & 4-3 on page 13 & 14) | VR03 (R-CH) F-3074 | | |

## 2-2. Power Meter Adjustment (See Top View on Page 13 & 14)

Note: 1. For adjustment, run the unit for more than 4 minutes after the power is switched ON.
2. Input . . . . . AUX
3. Input Signal . . . . . Sine Wave (1 kHz)
4. Speaker load . . . . . 8Ω
5. Meter Range . . . . . X1
6. Master Volume . . . . . Maximum

### <G-9700/971 Only>

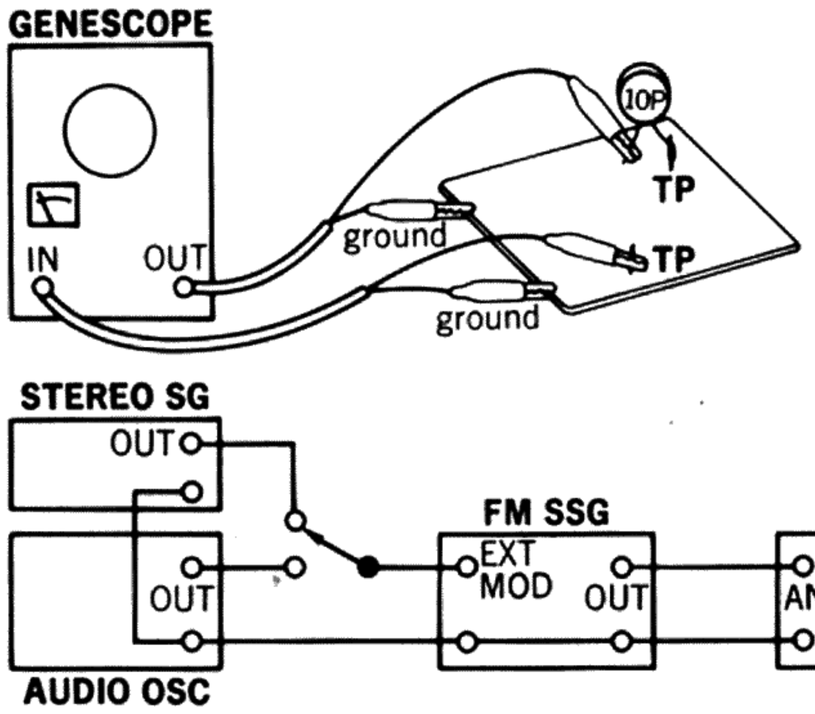
| STEP | MEASURE OUTPUT | OUTPUT LEVEL | ADJUST | ADJUST FOR |
|---|---|---|---|---|
| 1. | Speaker Terminal L-CH AC Volt Meter | 14.1V (25W) | VR01 F-3082 | Make every 10 lamps lighting |
| 2. | Speaker Terminal R-CH AC Volt meter | Same as above | VR02 F-3082 | |

### <G-8700DB/871DB Only>

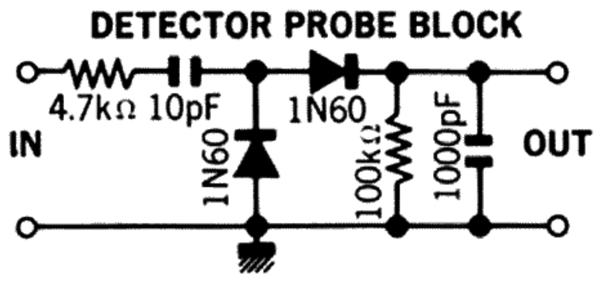
| STEP | MEASURE OUTPUT | OUTPUT LEVEL | ADJUST | ADJUST FOR |
|---|---|---|---|---|
| 1. | Speaker Terminal L-CH AC Volt Meter | 12.6V (20W) | VR01 F-3082 | Make every 10 lamps lighting |
| 2. | Speaker Terminal R-CH AC Volt Meter | Same as above | VR02 F-3082 | |

## 2-3. FM Adjustment (See Top View on Page 13 & 14)

**Note:** 1. Selector . . . . . FM
2. FM Muting Switch . . . . . OFF

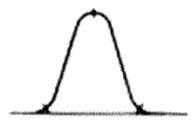
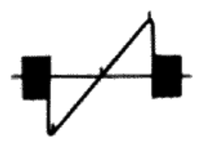
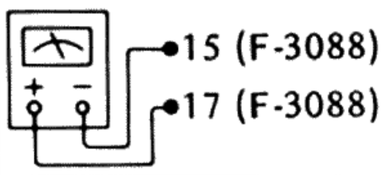
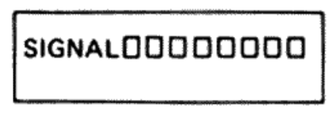
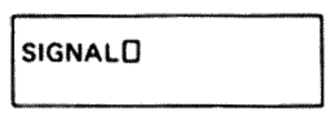



3. Connection . . Connect the output of genescope to TP through 100 pF ceramic capacitor.
4. Confirm the voltage, DC 12.5 ~ 13.5V at TP44 on F-2990. If not, set the voltage at TP44 to DC 13V by VR601 on F-3071.




### (1) FM IF, RF Adjustment and Dial Calibration

*** Before making adjustments of steps 2 ~ 5, run the unit for more than 2 minutes and make the dial pointer go round on the dial scale at once by tuning knob.**

| STEP | SUBJECT | FEED SIGNAL | | MEASURE OUTPUT | ADJUST | ADJUST FOR | REMARKS |
|---|---|---|---|---|---|---|---|
| | | FROM | TO | | | | |
| 1. | IF Coil | Output 50 ~ 60 dB Genescope | TC03 (Front-end) | Lead wire of R32 (Point Ⓑ) Use Detector Probe | T01 (Front-end) T01 (F-2990) | Max. IF waveform |  |
| 2. | Discriminator Coil In case of using Genescope | Output 80 dB Genescope | TC03 (Front-end) | TP52 (F-2990) | T02, T03 (F-2990) | Steep linearity of S curve Make symmetrical S curve |  |
| | Discriminator Coil In case of using Dist meter | 98 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG | ANT terminal 300Ω | REC OUT L or R-CH Dist Meter VTVM & Scope | T02, T03 (F-2990) T01 (Front-end) T01 (F-2990) | Min. THD | |
| 3. | Tune Indicator Adj. | Receive the nearest FM station | | Between Terminal 15 & 17 of F-3088 DC Volt Meter | T02 (F-2990) | DC 0V ±5 mV |  |
| 4. | AFC Voltage Adj. | | | 25 Terminal of F-3088 DC Volt Meter | VR03 (F-3088) | DC 7V ±0.2V | Note: Steps 4 & 5 should be performed after grounding the collector of TR15 on F-3088 |
| 5. | 98 MHz Dial Calibration | No Input | | Dial Pointer | Tuning knob | 98 MHz | |
| | | Same as above | | Indication of Display unit | TC04 (Front-end) | 98 MHz | |
| 6. | 98 MHz RF Adj. | 98 MHz ANT Input Minimum value with sine wave 1000 Hz (100% MOD) FM SSG | ANT terminal 300Ω | REC OUT L or R-CH VTVM & Scope | TC01, TC02 TC03 (Front-end) | Max. Output | |
| 7. | Signal Indicator Adj. | 98 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG | Same as above | Signal indicator lamp | VR04 (F-3088) | Make every 8 lamps lighting |  |
| | | No ANT Input | | Same as above | VR04 (F-3088) | Make only one lamp lighting |  |

**Note:** Confirm the Dial Calibration on the frequencies of 90 MHz & 106 MHz in step 5.

## (2) FM STEREO Adjustment

Note: 1. Selector . . . . . FM AUTO  2. FM MODE Switch . . . . . AUTO

| STEP | SUBJECT | | FEED SIGNAL FROM | FEED SIGNAL TO | MEASURE OUTPUT | ADJUST | ADJUST FOR | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1. | PLL VCO Adj. | | 98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R (or L) Mode 1 kHz + Pilot (100% MOD) STEREO SG | ANT terminal 300Ω | Stereo indicator | VR01 (F-2990) | Light indicator | Adjust the VR within center of lighting level. |
| | PLL VCO Adj. In case of using Freq. Counter | | 98 MHz ANT Input 65 dBf (59.8 dB) FM SSG (No MOD) | Same as above | TP53 (F-2990) Use Freq. counter | VR01 (F-2990) | 76 kHz ±150 Hz | |
| 2. | PILOT cancel Adj. | | 98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) | Same as above | REC OUT L or R-CH VTVM & Scope | VR02 (F-2990) | Min. Output | Confirm Both Channel |
| | PILOT cancel Adj. In case of Dist. meter | | 98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) L-CH or R-CH MODE 1 kHz + Pilot (100% MOD) | Same as above | Same as above | VR02 (F-2990) | Min. Distortion | |
| 3. | Separation | | 98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R Mode 1 kHz + Pilot (100% MOD) STEREO SG | Same as above | REC OUT L-CH VTVM & Scope | VR03 (F-2990) | OUT −45 dB | Confirm separation L-CH → R-CH (−45 dB) Auto Noise Filter or MPX Noise Canceler Switch . . . OFF |
| 4. | Muting level | 1 | 98 MHz ANT Input 0 dBf (−5.2 dB) FM SSG Pilot 19 kHz (9% MOD) SUB 1 kHz + Pilot (100% MOD) STEREO SG | Same as above | REC OUT L or R-CH VTVM & Scope | VR06 (F-2990) | Muting level 0 dBf (−5.2 dB) | Turn VR05 fully clockwise, FM MUTING Switch . . . ON |
| | | 2 | 98 MHz ANT Input 15 dBf (9.8 dB) FM SSG Pilot 19 kHz (9% MOD) SUB 1 kHz + Pilot (100% MOD) STEREO SG | Same as above | Same as above | VR05 (F-2990) | Muting level 15 dBf (9.8 dB) | FM MUTING Switch . . . ON |
| 5. | Auto Noise Filter Adj. (G-9700/ 971 only) | 1 | 98 MHz ANT Input 45 dBf (39.8 dB) 10 kHz (100% MOD) FM SSG | Same as above | REC OUT L or R-CH VTVM & Scope | | Read the indication on VTVM | Auto Noise Filter Switch . . . OFF |
| | | 2 | Same as above | Same as above | Same as above | VR04 (F-2990) | −3 dB from the indication above | Auto Noise Filter Switch . . . ON |
| 6. | DOLBY FM Volume (G-8700DB/ 871DB only) | | 98 MHz ANT Input 65 dBf (59.8 dB) 100 Hz (100% MOD) FM SSG | Same as above | REC OUT L-CH VTVM | VR01 (F-2688) | Output level 560 mV | DOLBY FM DE-CODER Switch . . . ON Use VTVM (100kΩ/V) |
| | | | | | REC OUT R-CH VTVM | VR02 (F-2688) | | |

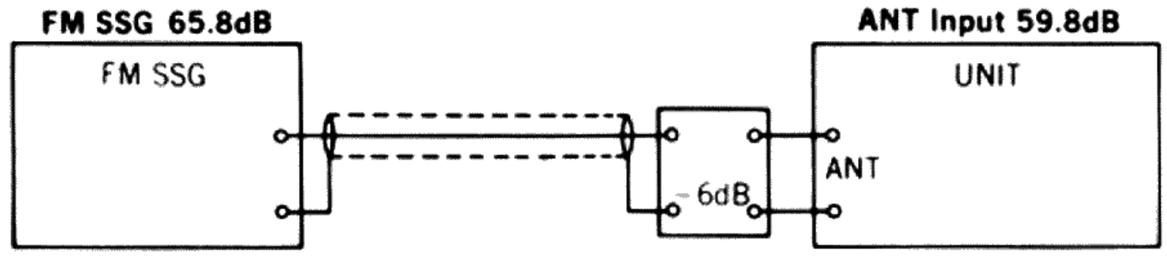
### • NEW MEASUREMENT FOR FM.

Input signal level under the provision of IHFM-T-200, a new measurement method is indicated by available power ratio "dBf" To obtain approximate available power ratio "dBf", abstract 0.8 from attenuater indication of general FMSG (open load indication type); however, the former measurement, IHFM-T-100 is designated together too.

The way of modulation of IHFM-T-200 is shown below.

| | modulation frequency | modulation mode | modulation factor |
|---|---|---|---|
| FM MONO | 1000 Hz | | 100% |
| FM STEREO | 1000 Hz | SUB | Pilot 9%<br>Pilot + SUB 100% |

• The relation between the standard input 65 dBf of IHFM-T-200 and the former indication "dB" is shown below.

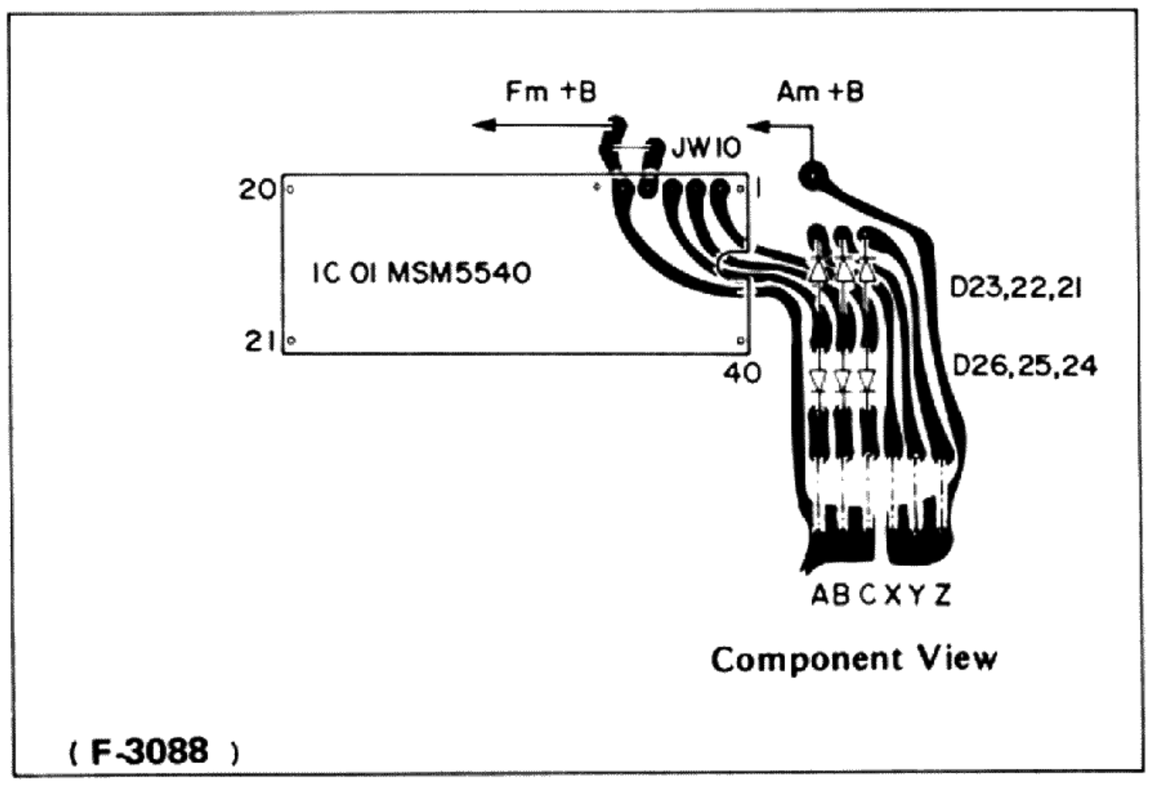


- **Selection of Intermediate Frequencies (FM) (Refer to parts location F-3088 on page 9)**

The digital locking point differs with the frequency rank of the ceramic filter used in the F-2990. When the central frequency (shown by a color) of the ceramic filter is changed, the following connection must be made by using jumper wires:

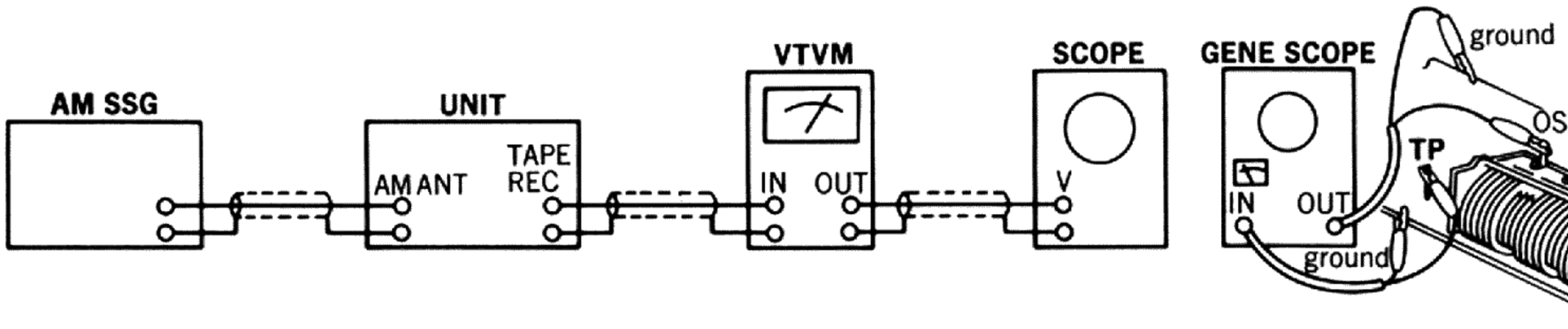
- Unify the color marks of the FM ceramic filters (CF01 ~ CF05) on the F-2990 with the same color.
- Select the joints A, B, and C of F-3088 according to color marks as shown in the following table:

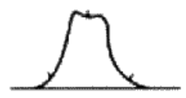
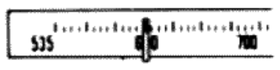
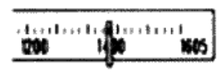
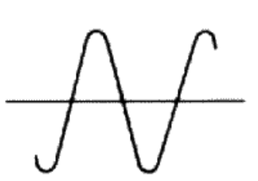
| Colouring | Intermediate frequency | Connecting Position of Jumper wire on F-3088 | | | | Connecting Position of Diode on F-3088 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | Jumper wire Total Q'ty | D26 | D25 | D24 | Diode Total Q'ty |
| Black | 10.64MHz | | | ● | 1 | | | ● | 1 |
| Brown | 10.66MHz | | ● | | 1 | | ● | | 1 |
| Blue | 10.68MHz | | ● | ● | 2 | | ● | ● | 2 |
| Red | 10.70MHz | ● | | | 1 | ● | | | 1 |
| Orange | 10.72MHz | ● | | ● | 2 | ● | | ● | 2 |
| Gray | 10.74MHz | ● | ● | | 2 | ● | ● | | 2 |
| White | 10.76MHz | ● | ● | ● | 3 | ● | ● | ● | 3 |




## 2-4. AM IF Adjustment and Dial Calibration (See Top View on Page 13 & 14)

**Note:** 1. Selector . . . . . AM



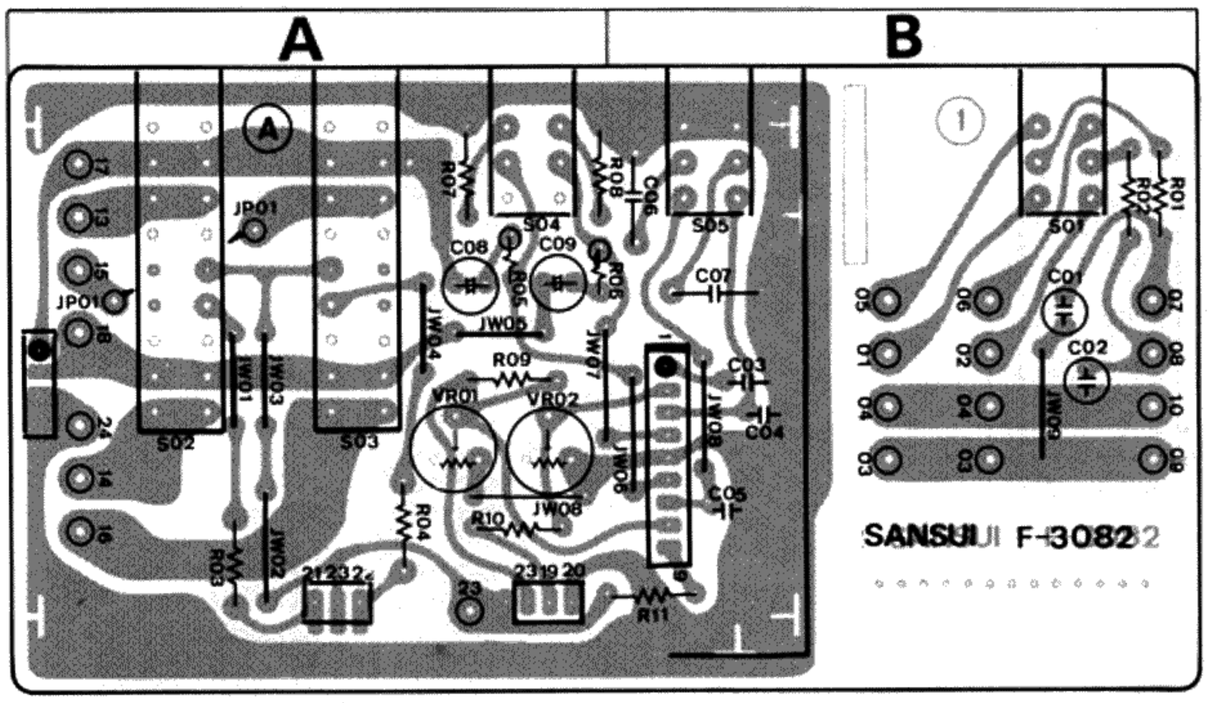

| STEP | SUBJECT | FEED SIGNAL FROM | FEED SIGNAL TO | MEASURE OUTPUT | ADJUST | ADJUST FOR | REMARKS |
|---|---|---|---|---|---|---|---|
| 1. | IF Coil | Genescope Output 70 dB | TC06 (Front-end) | TP11 F-2990 | T502, T504 (F-2990) | Max. Output |  |
| 2. | 600 kHz Dial Calibration | No Input | | Dial Pointer | Tuning knob | 600 kHz |  |
| | | Same as above | | Indication of digital display unit | T501 (F-2990) | 600 kHz | |
| | 1400 kHz Dial Calibration | Same as above | | Dial Pointer | Tuning knob | 1400 kHz |  |
| | | Same as above | | Indication of digital display unit | TC06 (Front-end) | 1400 kHz | |
| 3. | 600 kHz RF Adj. | 600 kHz ANT Input 50 dB 400 Hz (MOD 30%) AM SSG | ANT terminal | REC OUT L or R-CH VTVM & Scope | Bar Antenna L01 (F-3048) | Max. Output |  |
| | 1400 kHz RF Adj. | 1400 kHz ANT Input 50 dB 400 Hz (MOD 30%) AM SSG | Same as above | Same as above | TC05 (Front-end) | Same as above | |
| 4. | Signal Indicator Adj. | 1000 kHz ANT Input 80 dB 400 Hz (MOD 30%) AM SSG | Same as above | Signal indicator lamp | VR02 (F-3088) | Make every 8 lamps lighting | SIGNAL□□□□□□□□ |
| | | No Input | | Same as above | VR02 (F-2088) | Make only one lamp lighting | SIGNAL□ |

# 3. PARTS LOCATION & PARTS LIST

- Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

## 3-1. F-3082 Power Indicator Circuit Board (Stock No. 7598411 = G-9700/971) (Stock No. 7598591 = G-8700DB/871DB)

**Conductor Side**



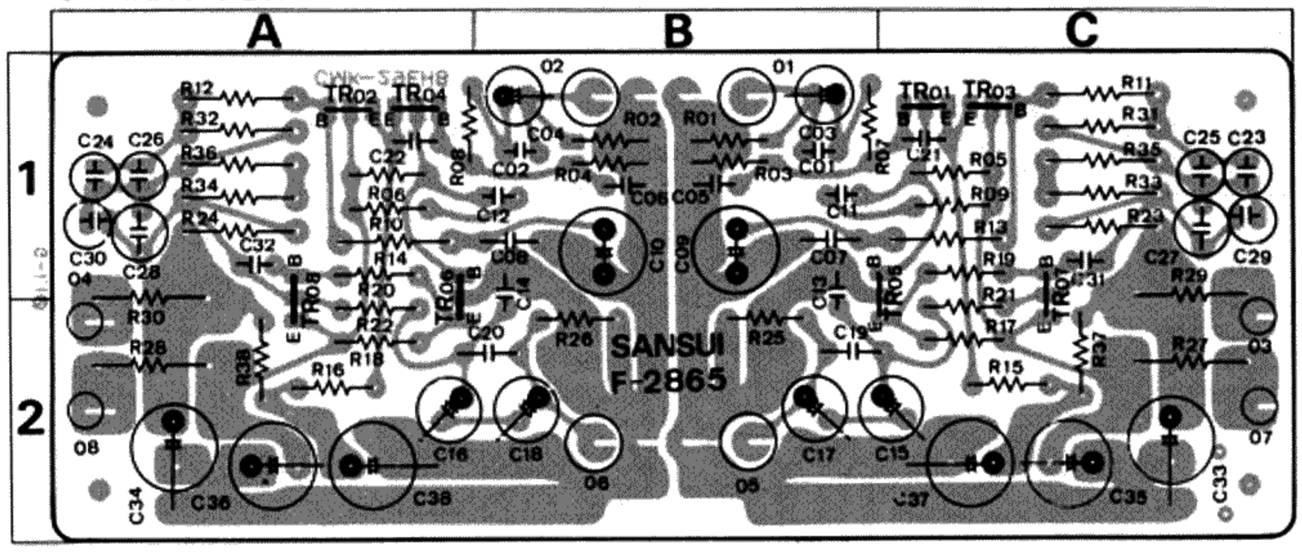

**Parts List**

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| •IC | | | |
| IC 01 | 0361000 | TA7318P | |
| C 01, 02 | 0620221 | 220pF 50V P.C. | B |
| R 03, 04 | 0210273 | 27kΩ 1/2W N.I.R. | A |
| VR01, 02 | 1035100 | 3.3kΩ (B) Volume, Power Indicator Level Adj. | A |
| S 01 ~ 05 | 1132190 | Push Switch Ass'y, Tone, Speaker A, B, Power Meter, Meter Range | A,B |

**Note:** Parts marked X, Y or without marks indicate as follow:
1. Parts marked X in parts list . . . . . for G-9700/971 Only
2. Parts marked Y in parts list . . . . . for G-8700DB/871DB Only
3. Parts without marks in parts list. . . for both G-9700/971 and G-8700DB/871DB

## 3-2. F-2865 Equalizer Circuit Board (Stock No. 7551601 = G-9700/971) (Stock No. 7551611 = G-8700DB/871DB)

**Conductor Side**




**Parts List**

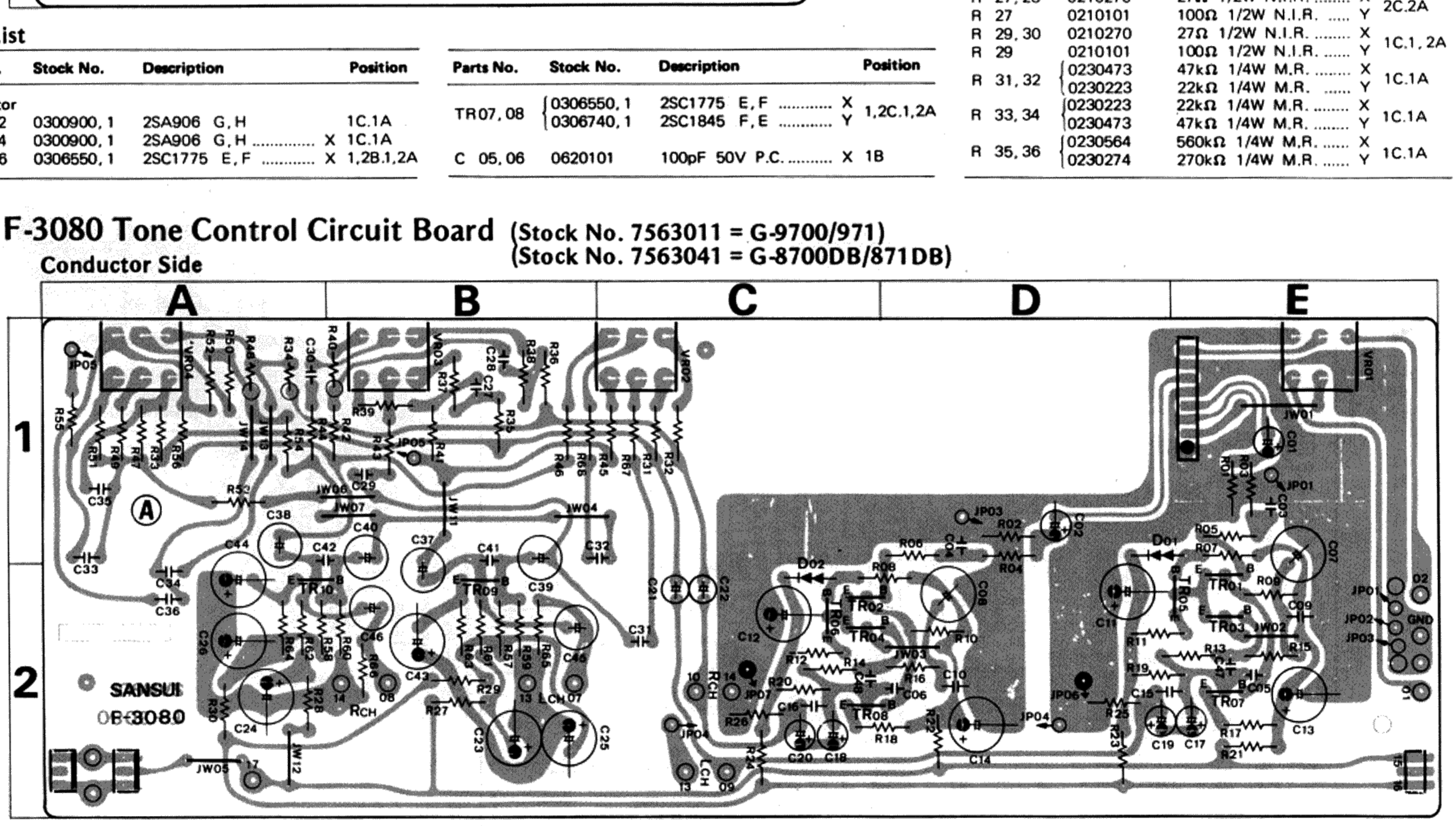
| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| •Transistor | | | |
| TR01, 02 | 0300900, 1 | 2SA906 G, H | 1C.1A |
| TR03, 04 | 0300900, 1 | 2SA906 G, H ..... X | 1C.1A |
| TR05, 06 | 0306550, 1 | 2SC1775 E, F ..... X | 1,2B.1,2A |

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| TR07, 08 | 0306550, 1 | 2SC1775 E, F ..... X | 1,2C.1,2A |
| | 0306740, 1 | 2SC1845 F, E ..... Y | |
| C 05, 06 | 0620101 | 100pF 50V P.C. ..... X | 1B |

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| C 23, 24 | 0625122 | 1200pF 50WV P.C. | 1C.1A |
| C 25, 26 | 0620391 | 390pF 50V P.C. ..... X | 1C.1A |
| C 27, 28 | 0625562 | 5600pF 50V P.C. | 1C.1A |
| C 29, 30 | 0620101 | 100pF 50V P.C. ..... X | 1C.1A |
| | 0622121 | 120pF 125V P.C. ..... Y | |
| R 11, 12 | 0230101 | 100Ω 1/4W M.R. | 1C.1A |
| R 13, 14 | 0210562 | 1kΩ 1/4W M.R. | 1C.1A |
| R 23, 24 | 0230102 | 5.6kΩ 1/2W N.I.R. | 1C.1A |
| R 27, 28 | 0210270 | 27Ω 1/2W N.I.R. ..... X | 2C.2A |
| R 27 | 0210101 | 100Ω 1/2W N.I.R. ..... Y | |
| R 29, 30 | 0210270 | 27Ω 1/2W N.I.R. ..... X | 1C.1, 2A |
| R 29 | 0210101 | 100Ω 1/2W N.I.R. ..... Y | |
| R 31, 32 | 0230473 | 47kΩ 1/4W M.R. ..... X | 1C.1A |
| | 0230223 | 22kΩ 1/4W M.R. ..... Y | |
| R 33, 34 | 0230223 | 22kΩ 1/4W M.R. ..... X | 1C.1A |
| | 0230473 | 47kΩ 1/4W M.R. ..... Y | |
| R 35, 36 | 0230564 | 560kΩ 1/4W M.R. ..... X | 1C.1A |
| | 0230274 | 270kΩ 1/4W M.R. ..... Y | |

## 3-3. F-3080 Tone Control Circuit Board (Stock No. 7563011 = G-9700/971) (Stock No. 7563041 = G-8700DB/871DB)

**Conductor Side**




**Parts List**

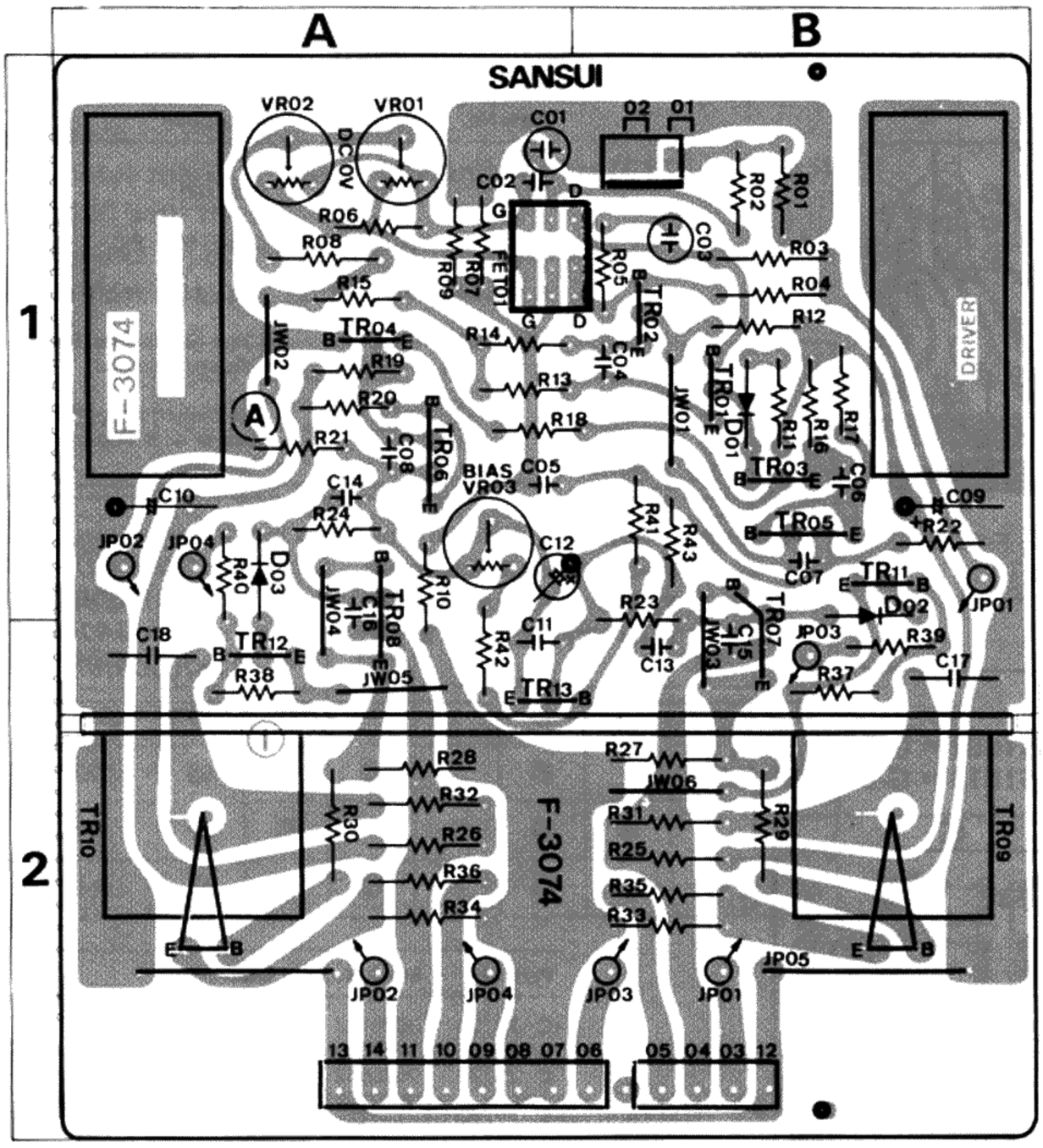
| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| •Transitor | | | |
| TR01, 02 | 0306070, 1 | 2SC1313 F, G | 2E.2C |
| | 0306740, 1 | 2SC1845 F, E | |
| TR03, 04 | 0306070, 1 | 2SC1313 F, G | 2E.2C |
| | 0306740, 1 | 2SC1845 F, E | |
| TR05, 06 | 0306070, 1 | 2SC1313 F, G | 2D,E.2C |
| | 0306740, 1 | 2SC1845 F, E | |
| TR07, 08 | 0301090, 1 | 2SA992 F, E | 2E.2C |

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| TR09, 10 | 0306070, 1 | 2SC1313 F, G | 2B.2A |
| | 0306740, 1 | 2SC1845 F, E | |
| •Varistor | | | |
| D 01, 02 | 0340120 | VD1212 | 1D.2C |
| | 0340150 | MV-12 | |
| R 19, 20 | 0210392 | 3.9kΩ 1/2W N.I.R. | 1D.2C |

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| VR01 | 1015340, 1 | 250kΩ (MN) x 2 Balance Volume | 1E |
| VR02 | 1015200, 1 | 100kΩ (B) x 2 Treble Volume | 1C |
| VR03 | 1015200, 1 | 100kΩ (B) x 2 Midrange Volume | 1B |
| VR04 | 1015200, 1 | 100kΩ (B) x 2 Bass Volume | 1A |

## 3-4. F-3074 Driver Amp. Circuit Board (Stock No. 7572421 = G-9700/971) (Stock No. 7572441 = G-8700DB/871DB)

Conductor Side

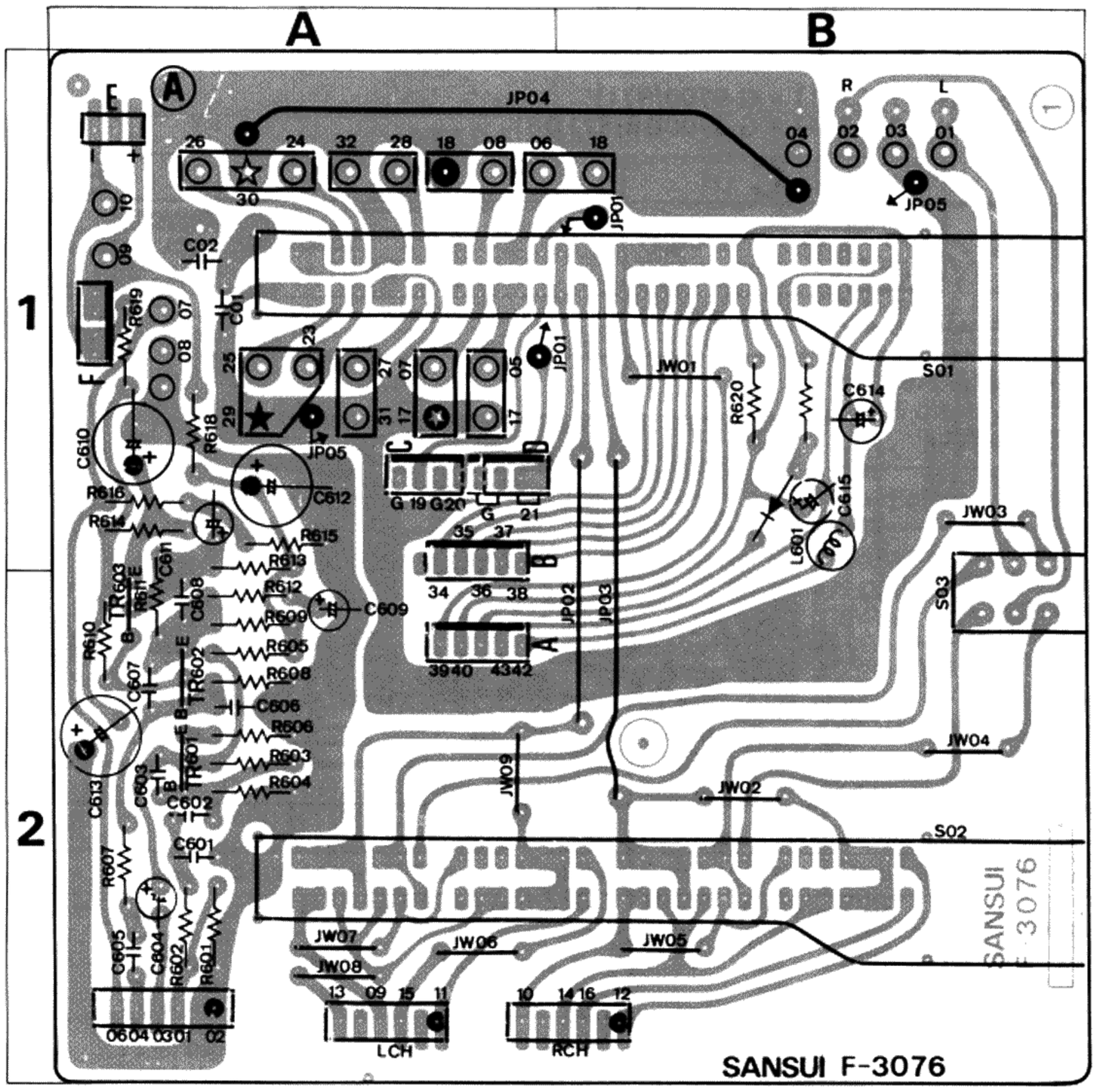



### Parts List

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| ●Transistor | | | |
| TR01 | 0306550, 1 | 2SC1775 E, F | 1B |
| TR02 | 0306550, 1 | 2SC1775 E, F | 1B |
| TR03 | 0300930, 1 | 2SA872 D, E | 1B |
| TR04 | 0300930, 1 | 2SA872 D, E | 1A |
| TR05 | 0301030, 1 | 2SA939 B, V | 1B |
| TR06 | 0306680, 1 | 2SC2071 B, V | 1A |
| TR07 | 0306680, 1 | 2SC2071 B, V | 1, 2B |
| TR08 | 0301030, 1 | 2SA939 B, V | 1, 2A |
| TR09 | 0306960, 1 | 2SC2238B-LB O, Y | 2B |
| TR10 | 0301260, 1 | 2SA968B-LB O, Y | 2A |
| TR13 | 0306401, 2 | 2SC1904 B, V | 2A |
| ●FET | | | |
| FET01 | 0370251, 2 | 2SK97-2, 3 | 1A |
| ●Diode | | | |
| D 01 | 0311160 | 1S2473D | 1B |
| | 0311180 | 1S1588 | |
| C 01 | 0620101 | 100pF 50V P.C. | 1A |
| C 03 | 0620151 | 150pF 50V P.C. | 1B |
| C 17 | 0655223 | 22000pF 500V C.C. | 2B |
| C 18 | 0655223 | 22000pF 500V C.C. | 2A |
| R 03 | 0230332 | 3.3kΩ 1/4W M.R. | 1B |
| R 04 | 0230332 | 3.3kΩ 1/4W M.R. | 1B |
| R 08 | 0210392 | 3.9kΩ 1/2W N.I.R. | 1A |
| R 17 | 0191151 | 150Ω 1/4W F.R. | 1B |
| R 20 | 0191151 | 150Ω 1/4W F.R. | 1A |
| R 23 | 0210391 | 390Ω 1/2W N.I.R. | 1, 2B |
| R 24 | 0210391 | 390Ω 1/2W N.I.R. | 1A |
| R 25 | 0210470 | 47Ω 1/2W N.I.R. | 2B |
| R 26 | 0210470 | 47Ω 1/2W N.I.R. | 2A |
| R 27 | 0210561 | 560Ω 1/2W N.I.R. | 2B |
| R 28 | 0210561 | 560Ω 1/2W N.I.R. | 2A |
| R 29 | 0210479 | 4.7Ω 1/2W N.I.R. | 2B |
| R 30 | 0210479 | 4.7Ω 1/2W N.I.R. | 2A |
| R 31 | 0210229 | 2.2Ω 1/2W N.I.R. | 2B |
| R 32 | 0210229 | 2.2Ω 1/2W N.I.R. | 2A |
| R 33 | 0211560 | 56Ω 1W N.I.R. | 2B |
| R 34 | 0211560 | 56Ω 1W N.I.R. | 2A |
| R 35 | 0210479 | 4.7Ω 1/2W N.I.R. | 2B |
| R 36 | 0210479 | 4.7Ω 1/2W N.I.R. | 2A |
| VR01 | 1033570 | 100Ω (B) Volume, DC 0V Adj. | 1A |
| VR03 | 1033630 | 1kΩ (B) Volume, Bias current Adj. | 1A |

## 3-5. F-3076 Mic Amp Circuit Board (Stock No. 7563001 = G-9700/971) (Stock No. 7563031 = G-8700DB/871DB)

Conductor Side



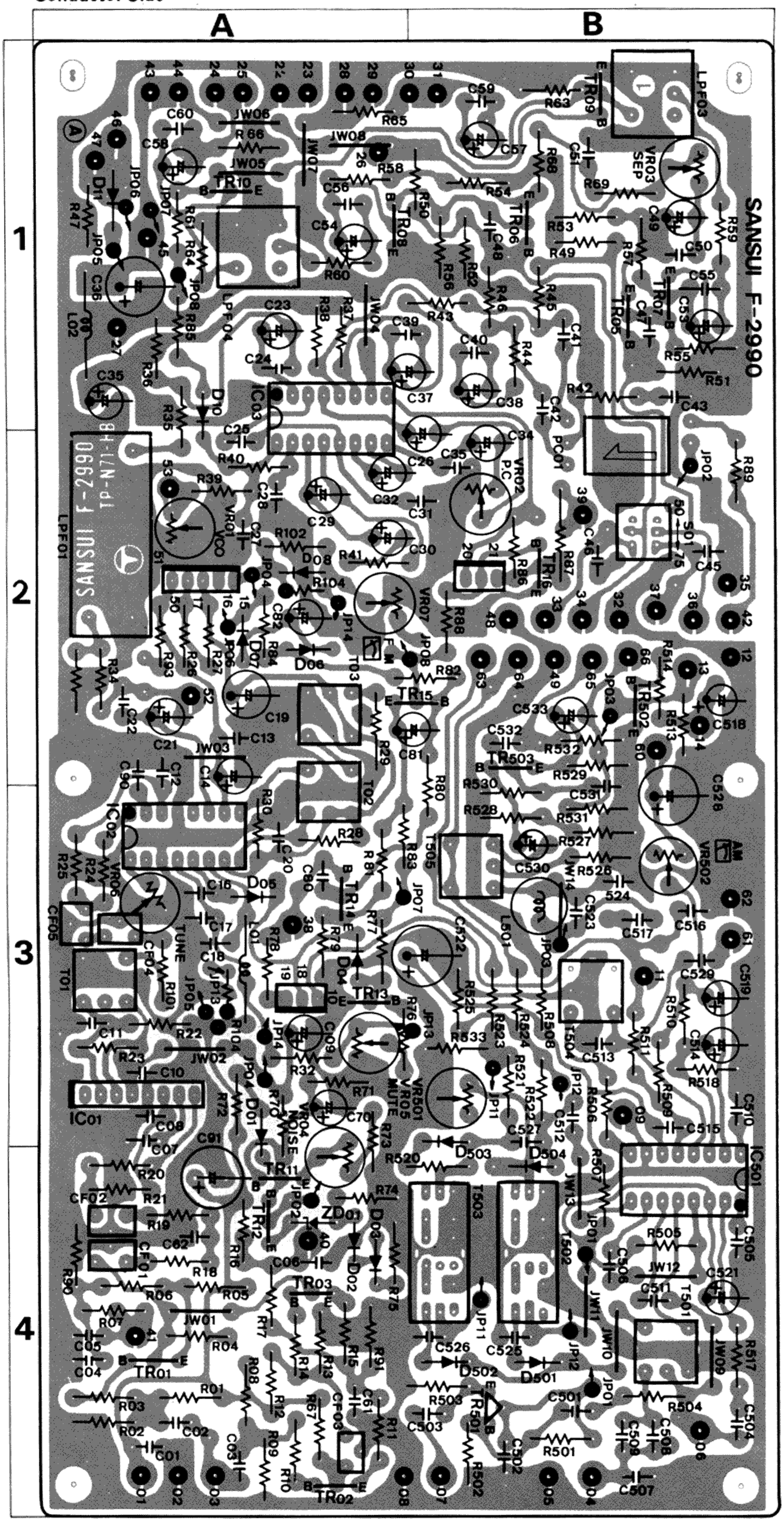

### Parts List

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| ●Transistor | | | |
| TR601 | 0306550, 1 | 2SC1775 E, F | 2A |
| TR602 | 0301090, 1 | 2SA992 F, E | 2A |
| TR603 | 0306550, 1 | 2SC1775 E, F | 2A |
| C 608 | 0620681 | 680pF 50V P.C. | 2A |
| L 601 | 4900090 | 2.2mH Inductor | 1B |
| S 01 | 1190750 | Selector Switch | 1A, B |
| S 02 | 1190740 | Tape Monitor Switch | 2A, B |
| S 03 | 1131550 | Source Monitor Switch | 1, 2B |

# 3-6. F-2990 Tuner Circuit Board

(Stock No. 7522291 = G-9700/971)
(Stock No. 7522301 = G-8700DB/871DB)

Conductor Side



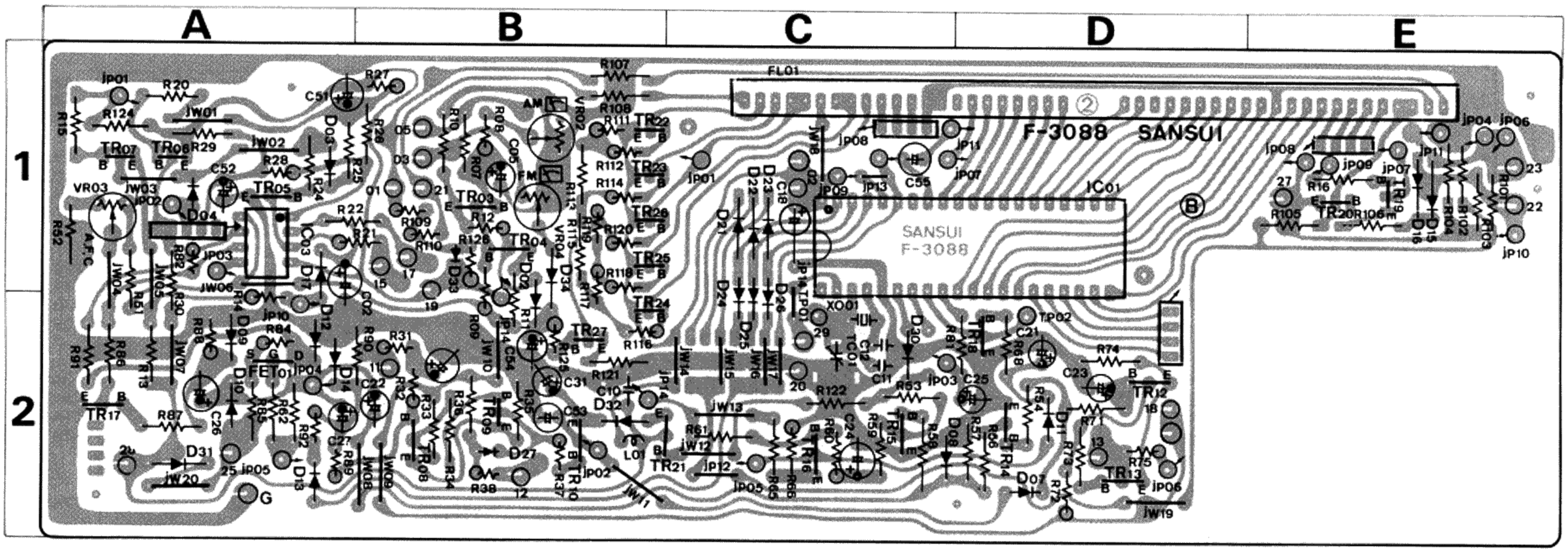

## Parts List

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| **•Transistor** | | | |
| TR01 | 0306340 ~ 2 | 2SC1674 M, L, K | 4A |
| TR02 | 0306340 ~ 2 | 2SC1674 M, L, K ... X | 4A |
| TR03 | 0306340 ~ 2 | 2SC1674 M, L, K ... X | 4A |
| TR05, 06 | 0300470, 1 | 2SA726 F, G | 1B |
| TR07, 08 | 0306070 ~ 2 | 2SC1313 F, G, H | 1B.1A |
| TR09, 10 | 0305951 ~ 3 | 2SC945 Q, P, K | 1B.1A |
| TR11 | 0305951 ~ 3 | 2SC945 Q, P, K ... X | 4A |
| TR12 | 0305951 ~ 3 | 2SC945 Q, P, K ... X | 4A |
| TR13 | 0305951 ~ 3 | 2SC945 Q, P, K | 3A |
| TR14 | 0305951 ~ 3 | 2SC945 Q, P, K | 3A |
| TR15 | 0300510 ~ 2 | 2SA733A P, Q, R | 2B |
| TR16 | 0305951 ~ 3 | 2SC945 Q, P, K | 2B |
| TR501 | 0306240 ~ 2 | 2SC1675 M, L, K | 4B |
| TR502 | 0305951 ~ 3 | 2SC945 Q, P, K | 2B |
| **•IC** | | | |
| IC 01 | 0361240 | μPC1198H | 3A |
| IC 02 | 0360930 | HA11225 | 3A |
| IC 03 | 0360680 | HA11223W | 1A |
| IC 501 | 0360390 | HA1197 | 4B |
| **•Diode** | | | |
| D 01 | 0311160 | 1S2473D ..... X | 3A |
| | 0311180 | 1S1588 ..... X | |
| D 04 | 0311160 | 1S2473D | 3A |
| | 0311180 | 1S1588 | |
| D 05 | 0311160 | 1S2473D | 3A |
| | 0311180 | 1S1588 | |
| D 06 | 0311160 | 1S2473D | 2A |
| | 0311180 | 1S1588 | |
| D 07 | 0311160 | 1S2473D | 2A |
| | 0311180 | 1S1588 | |
| D 10 | 0311160 | 1S2473D | 1A |
| | 0311180 | 1S1588 | |
| D 11 | 0310340 | 10D1 | 1A |
| **•Varistor** | | | |
| D 02 | 0340120 | VD1212 ..... X | 4A |
| | 0340150 | MV-12 ..... X | |
| D 03 | 0340120 | VD1212 ..... X | 4A |
| | 0340150 | MV-12 ..... X | |
| **•Zener Diode** | | | |
| ZD01 | 0316390 | RD6.2E B ..... X | 4A |
| | 0316400 | RD6.2E C ..... X | |
| PC 01 | 0920080 | P873-G35-911 ... X | 1, 2B |
| C 26 | 0573338 | 0.33μF 35V Ta.C. | 2B |
| C 27 | 0620102 | 1000pF 50V P.C. | 2A |
| C 28 | 0620222 | 2200pF 50V P.C. | 2A |
| C 29 | 0573478 | 0.47μF 35V Ta.C. | 2A |
| C 30 | 0573339 | 3.3μF 35V Ta.C. | 2A |
| C 32 | 0573339 | 3.3μF 35V Ta.C. | 2A |
| C 34 | 0573338 | 0.33μF 35V Ta.C. | 2B |
| C 62 | 0661150 | 15pF 50V C.T. | 4A |
| C 509 | 0625391 | 390pF 50V P.C. | 4B |
| C 524 | 0620271 | 270pF 50V P.C. | 3B |
| R 29 | 0231222 | 2.2kΩ 1/2W M.R. | 2A |
| R 87 | 0211221 | 220Ω 1W N.I.R. | 2B |
| L 01 | 4900100 | 3.3μH Peaking Coil | 3A |
| L 02 | 4900100 | 3.3μH Peaking Coil | 1A |
| L 501 | 4900220 | Inductor, 10μH | 3B |
| T 01 | 4235930 | IF Coil, 10.7 MHz | 3A |
| T 02 | 4236230 | FM Detector Coil | 3A |
| T 03 | 4236240 | FM Detector Coil | 2A |
| T 501 | 4220710 | OSC Coil | 4B |
| T 502 | 4230680 | AM IF Coil, 455 kHz | 4B |
| T 504 | 4230620 | AM IF Coil, 455 kHz | 3B |
| LF 01 | 0910590 | Low Pass Filter | 2A |
| LF 03, 04 | 0910530 | Low Pass Filter | 1B.1A |
| VR01 | 1034240 | 3.3kΩ (B) Volume<br>VCO Free Run Freq. Adj. | 2A |
| VR02 | 1035190 | 100kΩ (B) Volume<br>Pilot Canceler Adj. | 2B |
| VR03 | 1035090 | 2.2kΩ (B) Volume<br>Separation Adj. | 1B |
| VR04 | 1035110 | 4.7kΩ (B) Volume<br>Auto Noise Canceler Adj.<br>..... X | 4A |
| VR05 | 1035130 | 10kΩ (B) Volume<br>Muting Level Adj. | 3A |
| VR06 | 1035150 | 22kΩ (B) Volume<br>Muting Level (15 dBf) Adj. | 3A |
| S 01 | 1110270 | DE-EMPHASIS Switch | 2B |
| CF | 0990050 | Ceramic Filter Ass'y ..... Y<br>(CF01, CF02, CF04, CF05) | |
| | 0990020 | Ceramic Filter Ass'y ..... X<br>(CF01 ~ CF04) | |

## 3-7. F-3088 Digitally Display Circuit Board

(Stock No. 7598351 = G-9700/971)
(Stock No. 7598541 = G-8700DB/871DB)

**Conductor Side**




### Parts List

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| •Transistor | | | |
| TR03 | 0305951 ~ 3 | 2SC945 Q, P, K | 1B |
| TR04 | 0300510 ~ 2 | 2SA733A P, Q, R | 1B |
| TR05 | 0305951 ~ 3 | 2SC945 Q, P, K | 1A |
| TR06 | 0305951 ~ 3 | 2SC945 Q, P, K | 1A |
| TR07 | 0300510 ~ 2 | 2SA733A P, Q, R | 1A |
| TR08 | 0305951 ~ 3 | 2SC945 Q, P, K | 2B |
| TR09 | 0305951 ~ 3 | 2SC945 Q, P, K | 2B |
| TR10 | 0300510 ~ 2 | 2SA733A P, Q, R | 2B |
| TR12 | 0305951 ~ 3 | 2SC945 Q, P, K | 2D |
| TR13 | 0305951 ~ 3 | 2SC945 Q, P, K | 2D |
| TR14 | 0305951 ~ 3 | 2SC945 Q, P, K | 2D |
| TR15 | 0305951 ~ 3 | 2SC945 Q, P, K | 2C |
| TR16 | 0305951 ~ 3 | 2SC945 Q, P, K | 2C |
| TR17 | 0305951 ~ 3 | 2SC945 Q, P, K | 2A |
| TR18 | 0305951 ~ 3 | 2SC945 Q, P, K | 2D |
| TR19 | 0300510 ~ 2 | 2SA733A P, Q, R | 1E |
| TR20 | 0300510 ~ 2 | 2SA733A P, Q, R | 1E |
| TR21 | 0305951 ~ 3 | 2SC945 Q, P, K | 2B |
| TR22 | 0300510 ~ 2 | 2SA733A P, Q, R | 1B |
| TR23 | 0300510 ~ 2 | 2SA733A P, Q, R | 2B |
| TR24 | 0300510 ~ 2 | 2SA733A P, Q, R | 1B |
| TR25 | 0300510 ~ 2 | 2SA733A P, Q, R | 1B |
| TR26 | 0300510 ~ 2 | 2SA733A P, Q, R | 1B |
| TR27 | 0305951 ~ 3 | 2SC945 Q, P, K | 2B |

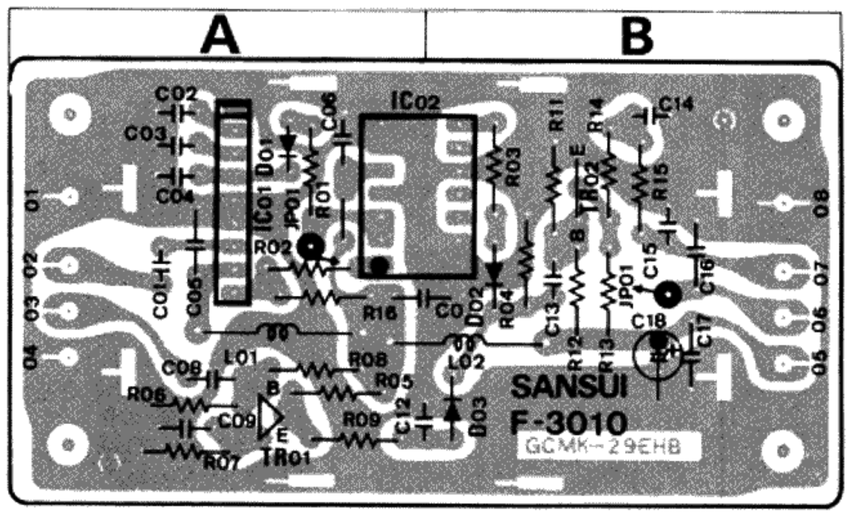
| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| •IC | | | |
| IC 01 | 0360910 | MSM5540RS | 1C, D |
| IC 03 | 0360770 | NJM4558D | 1A |
| •FET | | | |
| FET01 | 0370300 ~ 3<br>0370340 ~ 7 | 2SK117 O, Y, GR, BL<br>2SK163-K1, K2, L1, L2, M1, M2, N1, N2 | 2A |
| •Diode | | | |
| D 02 | 0311160 | 1S2473D | 2B |
| D 03 | 0311160 | 1S2473D | 1A |
| D 04 | 0311160 | 1S2473D | 1A |
| D 07 | 0311160 | 1S2473D | 2D |
| D 08 | 0311160 | 1S2473D | 2C |
| D 09 | 0311160 | 1S2473D | 2A |
| D 10 | 0311160 | 1S2473D | 2A |
| D 11 | 0311160 | 1S2473D | 2D |
| D 12 | 0311160 | 1S2473D | 2A |
| D 13 | 0311160 | 1S2473D | 2A |
| D 14 | 0311160 | 1S2473D | 2A |
| D 15 | 0311160 | 1S2473D | 1E |
| D 16 | 0311160 | 1S2473D | 1E |
| D 17 | 0311160 | 1S2473D | 1A |
| D 23 | 0311160 | 1S2473D | 1C |
| D 26 | 0311160 | 1S2473D | 1, 2C |

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| D 27 | 0311160 | 1S2473D | 2B |
| D 30 | 0311160 | 1S2473D | 2C |
| D 31 | 0311160 | 1S2473D | 2A |
| D 32 | 0311160 | 1S2473D | 2B |
| D 34 | 0311160 | 1S2473D | 1B |
| D 35 | 0310340 | 10D-1 | 2B |
| •Varistor | | | |
| D 33 | 0340170 | MV-103 | 1B |
| C 11 | 0669508 | 8pF 50V C.T. | 2C |
| C 12 | 0661220 | 22pF 50V C.T. | 2C |
| L 01 | 4290011 | 3.5μF Choke Coil | 2B |
| VR02 | 1035190 | 100kΩ (B) VR, AM meter Adj. | 1B |
| VR03 | 1035110 | 4.7kΩ (B) VR, AFC Bias Adj. | 1A |
| VR04 | 1035130 | 10kΩ (B) VR, FM meter Adj. | 1B |
| TC01 | 1230150 | 30pF Trimmer Capacitor | 2C |
| XO01 | 0930040 | Xtal, 6.5536 MHz | 2C |
| FL01 | 0030060 | Fluorescent Display Tube | 1C, D, E |

## 3-8. F-3010 Pre Scaler Circuit Board

(Stock No. 7598361 = G-9700/971)
(Stock No. 7598551 = G-8700DB/871DB)

**Conductor Side**



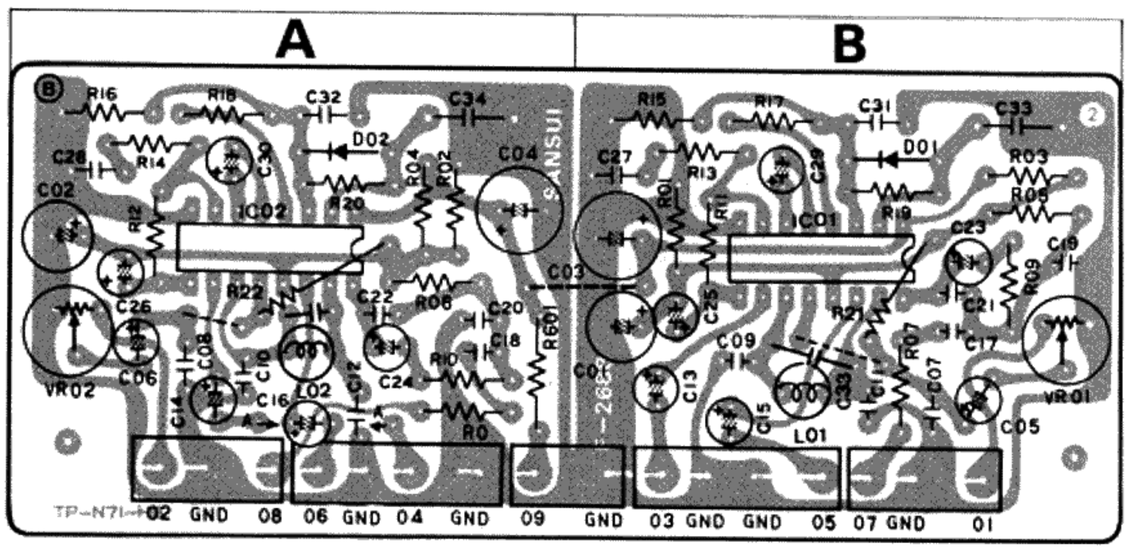

### Parts List

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| •Transistor | | | |
| TR01 | 0306341, 2 | 2SC1674 L, K | A |
| TR02 | 0306341, 2 | 2SC1674 L, K | B |
| •IC | | | |
| IC 01 | 0361130 | AN6821 | A |
| IC 02 | 0361120 | SN74LS90N | A, B |
| •Diode | | | |
| D 01 | 0311160 | 1S2473D | A |
| D 02 | 0311160 | 1S2473D | B |
| D 03 | 0311160 | 1S2473D | B |
| L 01 | 4290011 | 3.5μH Choke Coil | A |
| L 02 | 4290011 | 3.5μH Choke Coil | B |

## 3-9. F-2688 Dolby NR Circuit Board

(Stock No. 7660171 = G-8700DB/871DB)

**Conductor Side**

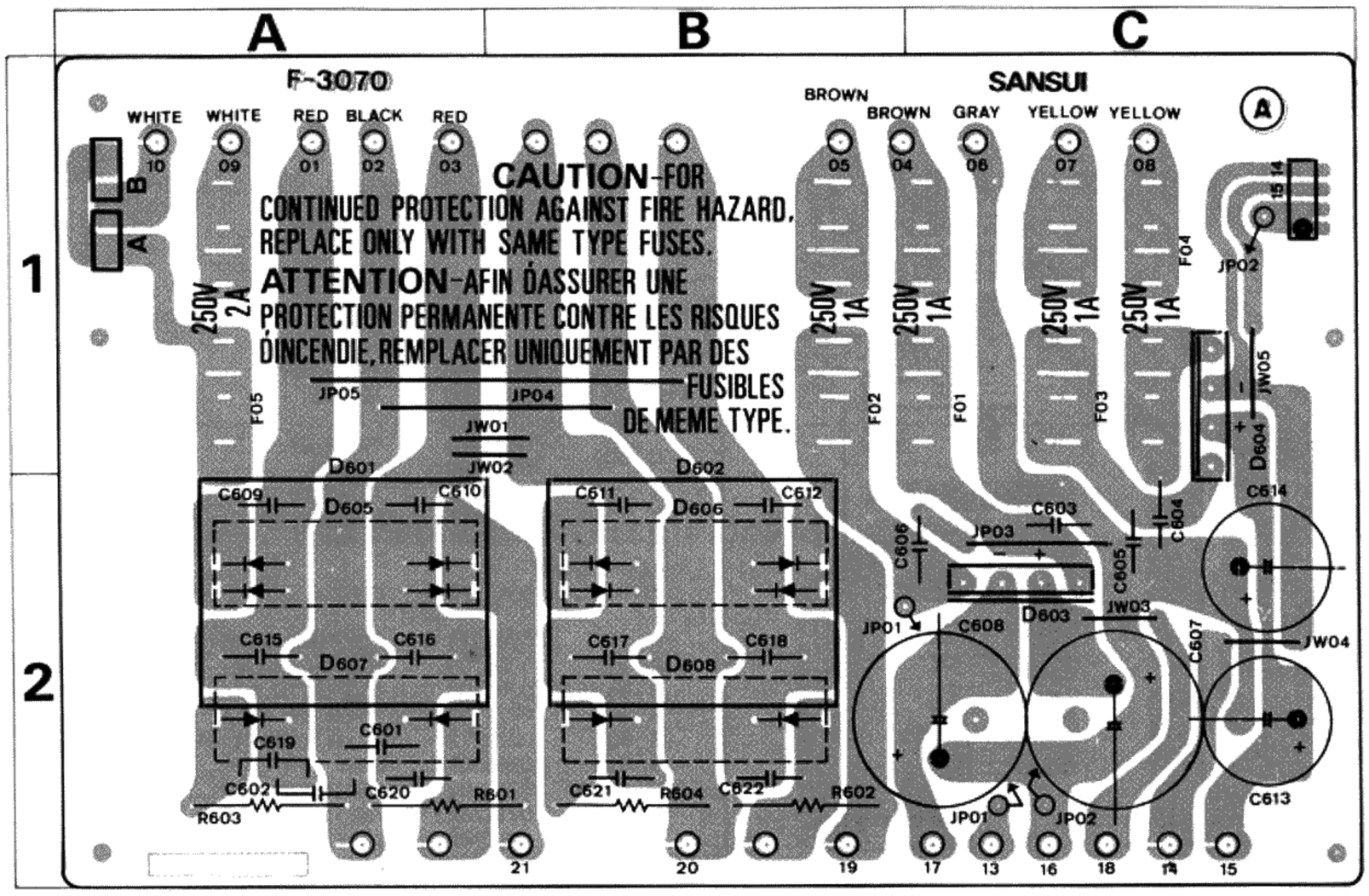



### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| •IC | | |
| IC 01, 02 | 0360340 | NE545B |
| •Diode | | |
| D 01, 02 | 0310400 | 1N34A |
| L 01, 02 | 4900260 | Inductor, 10 mH |
| VR01, 02 | 1035430 | 100kΩ (B) Dolby Level Adj. |

## 3-10. F-3070 Power Supply Circuit Board (Stock No. 7503591 = G-9700/971) (Stock No. 7503621 = G-8700DB/871DB)

Conductor Side

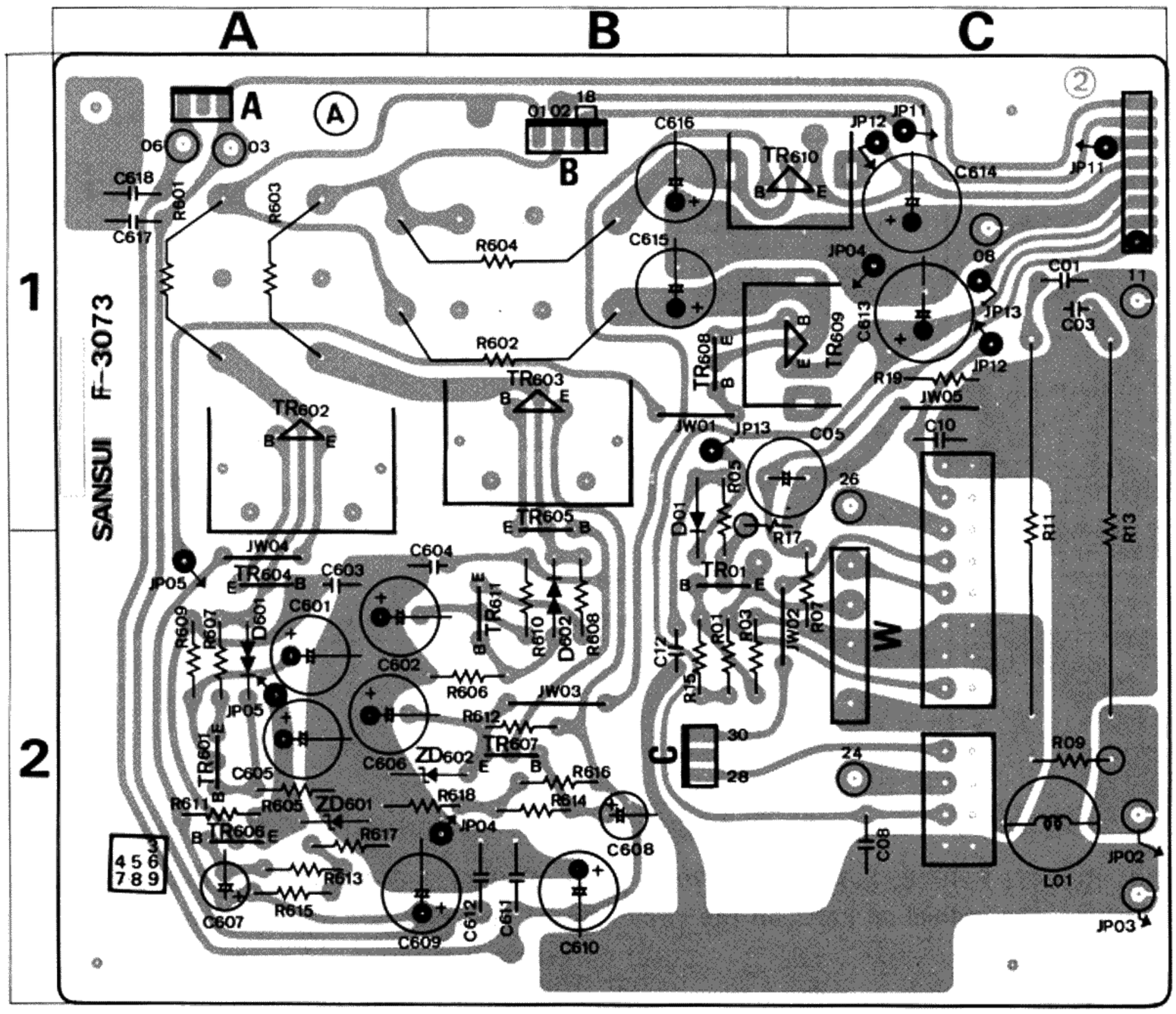



### Parts List

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| ●Diode | | | |
| D 601 | 0311670 | SS-7 | 2A |
| D 602 | 0311680 | SS-7R | 2B |
| D 603 | 0311700 | RB-152 | 2C |
| D 604 | 0311700 | RB-152 | 1C |
| C 601 | 0655223 | 22000pF 500V C.C. | 2A |
| C 602 | 0655223 | 22000pF 500V C.C. | 2A |
| C 603 | 0655103 | 10000pF 500V C.C. | 2C |
| C 604 | 0655103 | 10000pF 500V C.C. | 2C |
| C 605 | 0655103 | 10000pF 500V C.C. | 2C |
| C 606 | 0655103 | 10000pF 500V C.C. | 2C |
| C 607 | 0549207 | 1000μF 63V E.C. | 2C |
| C 608 | 0549207 | 1000μF 63V E.C. | 2C |
| C 609 | 0655103 | 10000pF 500V C.C. | 2A |
| C 610 | 0655103 | 10000pF 500V C.C. | 2A |
| C 611 | 0655103 | 10000pF 500V C.C. | 2B |
| C 612 | 0655103 | 10000pF 500V C.C. | 2B |
| R 601 | 0212822 | 8.2kΩ 2W N.I.R. | 1A |
| R 602 | 0212822 | 8.2kΩ 2W N.I.R. | 2B |
| F 01 | 0432220 | 1A 250V AC Fuse | 1B, C |
| F 02 | 0432220 | 1A 250V AC Fuse | 1B |
| F 03 | 0432220 | 1A 250V AC Fuse | 1C |
| F 04 | 0432220 | 1A 250V AC Fuse | 1C |
| F 05 | 0432230 | 1.5A 250V AC Fuse | 1A |

## 3-11. F-3073 Pre Power Supply (Stock No. 7503611 = G-9700/971) (Stock No. 7503641 = G-8700DB/871DB)

Conductor Side

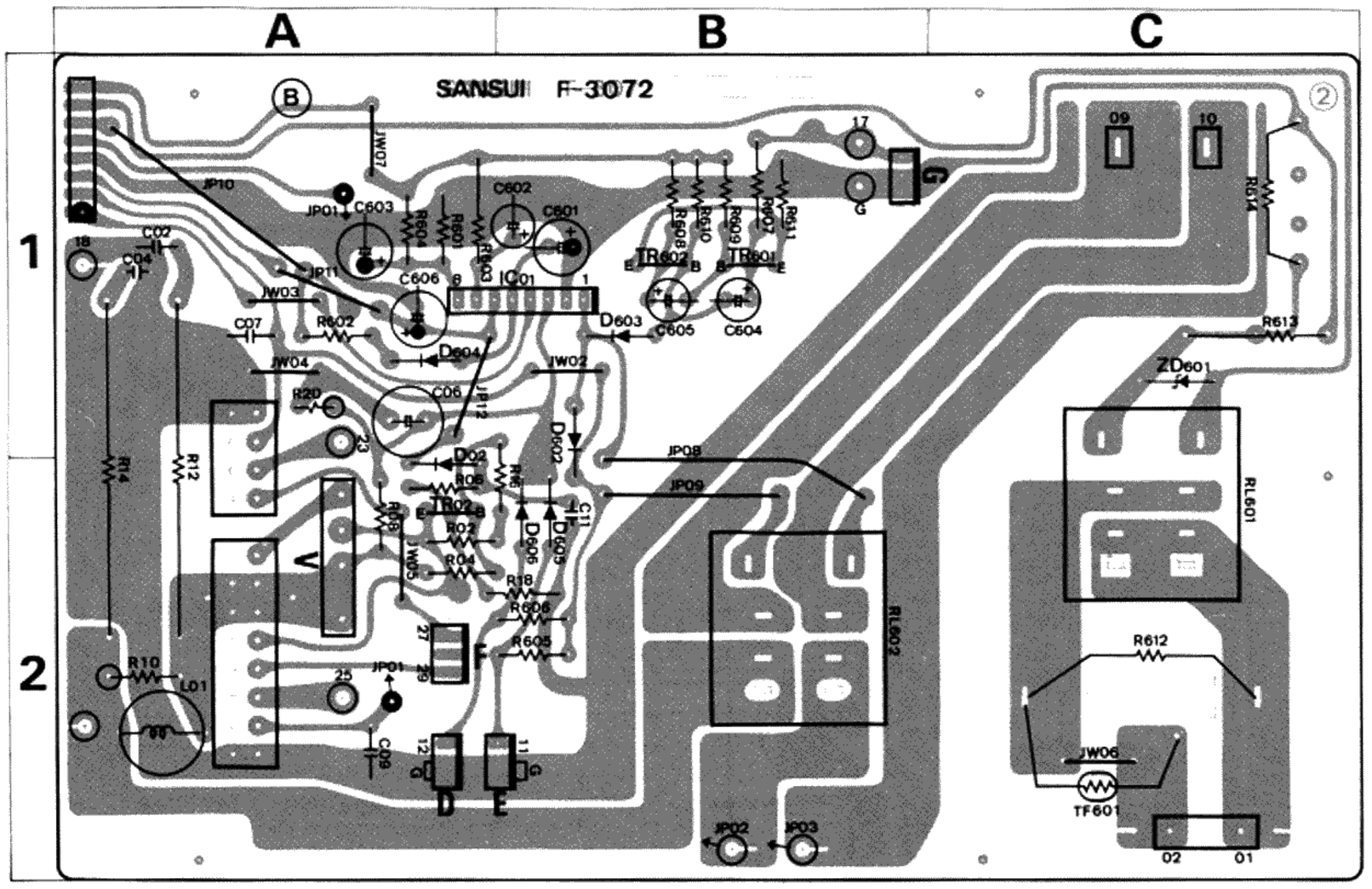



### Parts List

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| ●Transistor | | | |
| TR01 | 0301030, 1 | 2SA939 B, V | 2B |
| TR601 | 0300470, 1 | 2SA726 F, G | 2A |
| TR602 | 0308611, 2 | 2SD357 D, E | 1A |
| TR603 | 0303441, 2 | 2SB527 D, E | 1B |
| TR604 | 0306070, 1 | 2SC1313 F, G | 2A |
| TR605 | 0300470, 1 | 2SA726 F, G | 1, 2B |
| TR606 | 0306070, 1 | 2SC1313 F, G | 2A |
| TR607 | 0300470, 1 | 2SA726 F, G | 2B |
| TR608 | 0305950 ~ 2 | 2SC945 R, Q, P | 1B |
| TR609 | 0308611, 2 | 2SD357 D, E | 1B, C |
| TR610 | 0303441, 2 | 2SB527 D, E | 1B, C |
| TR611 | 0306070, 1 | 2SC1313 F, G | 2B |
| ●Diode | | | |
| D 01 | 0311160 / 0311180 | 1S2473D / 1S1588 | 1, 2B |
| ●Varistor | | | |
| D 601 | 0340120 / 0340150 | VD1212 / MV-12 | 2A |
| D 602 | 0340120 / 0340150 | VD1212 / MV-12 | 2B |
| ●Zener Diode | | | |
| ZD601 | 0316510 | RD24E B | 2A |
| ZD602 | 0316510 | RD24E B | 2A, B |
| R 09 | 0212229 | 2.2Ω 2W N.I.R. | 2C |
| R 11 | 0205100 | 10Ω 5W N.I.R. | 1, 2C |
| R 13 | 0205100 | 10Ω 5W N.I.R. | 1, 2C |
| R 601 | 0212820 | 82Ω 2W N.I.R. | 1A |
| R 602 | 0183271 | 270Ω 3W Ce.R. | 1B |
| R 603 | 0212151 | 150Ω 2W N.I.R. | 1A |
| R 604 | 0212102 | 1kΩ 2W N.I.R. | 1B |
| L 01 | 4290370 | 1μH Filter Coil | 2C |

## 3-12. F-3072 Protector Circuit Board (Stock No. 7572411 = G-9700/971) (Stock No. 7572431 = G-8700DB/871DB)

Conductor Side

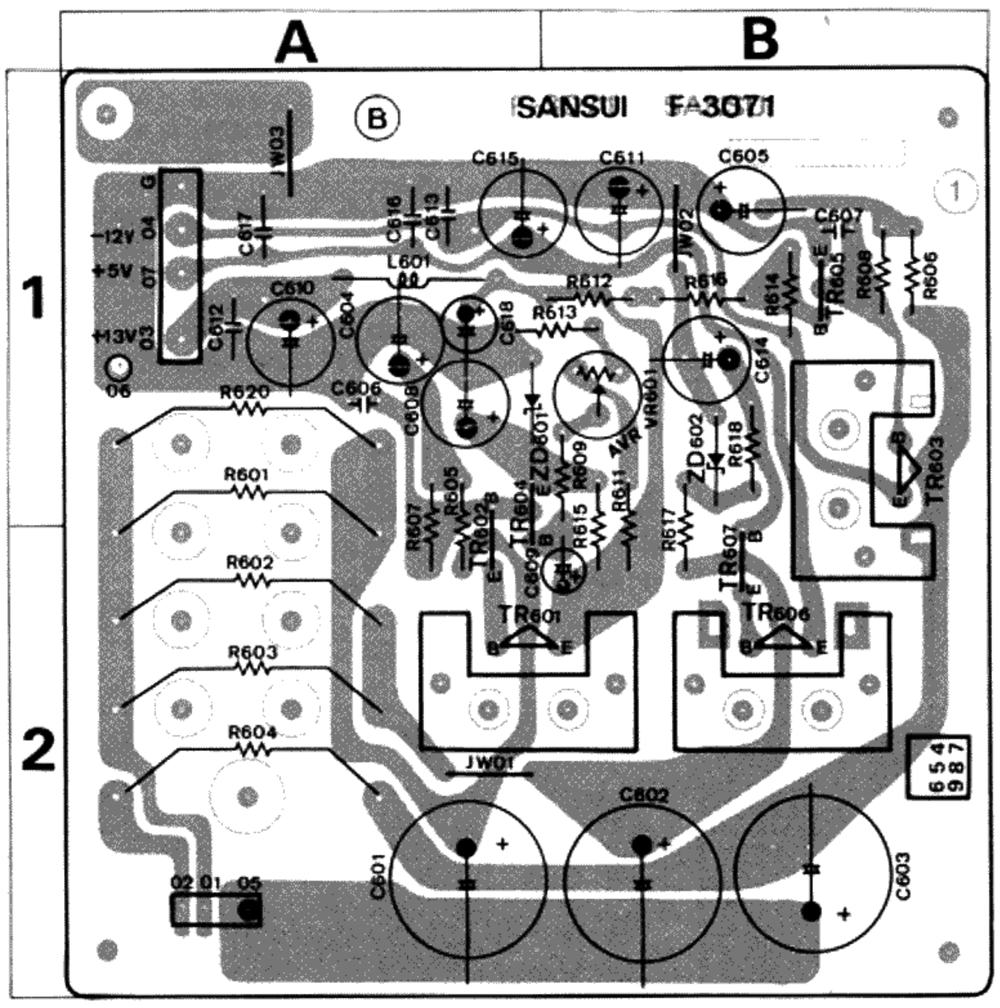



### Parts List

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| ●Transistor | | | |
| TR02 | 0301030, 1 | 2SA939 B, V | 2A |
| TR601 | 0305950 ~ 2 | 2SC945 R, Q, P | 1B |
| TR602 | 0305950 ~ 2 | 2SC945 R, Q, P | 1B |
| ●IC | | | |
| IC 01 | 0360900 | HA12002 | 1A, B |
| ●Diode | | | |
| D 02 | 0311160 | 1S2473D | 2A |
| | 0311180 | 1S1588 | |
| D 602 | 0310340 | 10D1 | 1, 2B |
| D 603 | 0311160 | 1S2473D | 1B |
| | 0311180 | 1S1588 | |
| D 604 | 0310340 | 10D1 | 1A |
| D 605 | 0311160 | 1S2473D | 2B |
| | 0311180 | 1S1588 | |
| D 606 | 0311160 | 1S2473D | 2B |
| | 0311180 | 1S1588 | |
| ●Zener Diode | | | |
| ZD601 | 0317170 | RD-24F (B) | 1C |
| R 10 | 0202229 | 2.2Ω 2W N.I.R. | 2A |
| R 12 | 0205100 | 10Ω 5W N.I.R. | 1, 2A |
| R 14 | 0205100 | 10Ω 5W N.I.R. | 1, 2A |
| R 603 | 0211152 | 1.5kΩ 1W N.I.R. | 1A |
| R 607 | 0210272 | 2.7kΩ 1/2W N.I.R. | 1B |
| R 612 | 0259399 | 3.9Ω 15W Ce.R. | 2C |
| R 613 | 0212182 | 1.8kΩ 2W N.I.R. .... Y | 1C |
| R 614 | 0212182 | 1.8kΩ 2W N.I.R. .... Y | 1C |
| R 615 | 0212182 | 1.8kΩ 2W N.I.R. .... X | |
| R 616 | 0212182 | 1.8kΩ 2W N.I.R. .... X | |
| L 02 | 4290370 | 1μH Filter Coil | |
| RL601 | 1150360 | Relay, AC | 1, 2C |
| | 1150540 | Relay, AC | |
| RL602 | 1150410 | Relay, Speaker | 2B |

## 3-13. F-3071 RF Power Supply Circuit Board (Stock No. 7503601 = G-9700/971) (Stock No. 7503631 = G-8700DB/871DB)

Conductor Side



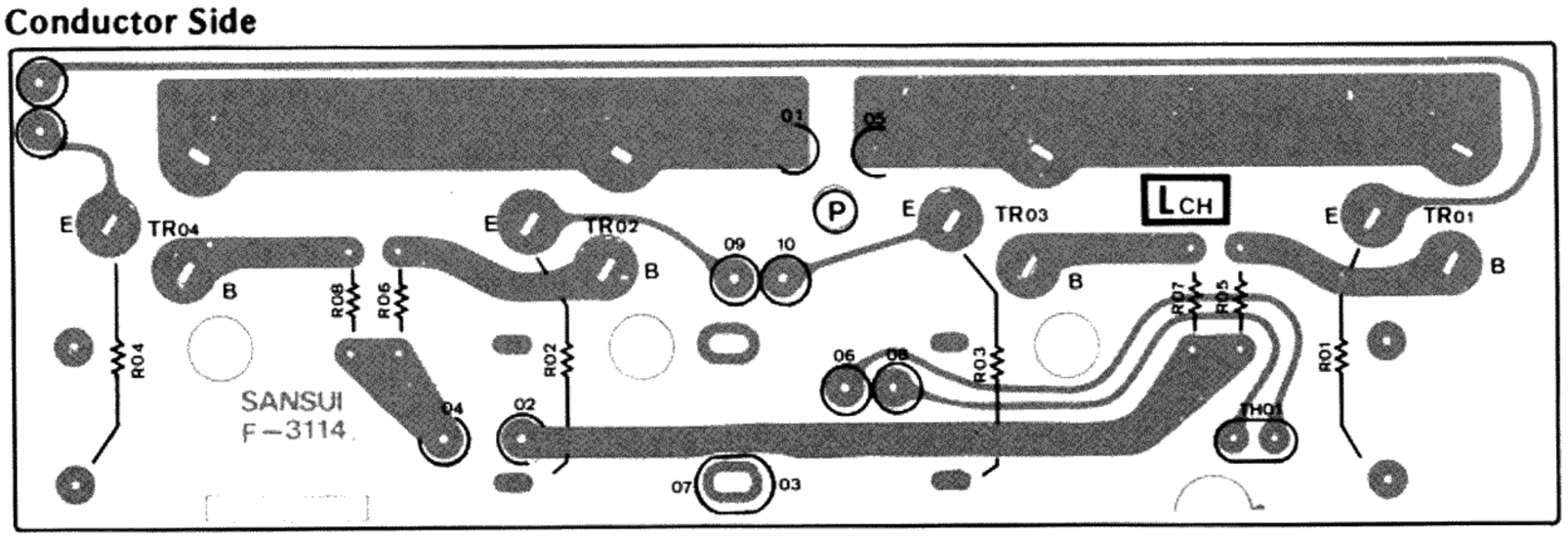

### Parts List

| Parts No. | Stock No. | Description | Position |
|---|---|---|---|
| ●Transistor | | | |
| TR601 | 0308391, 2 | 2SD313AL D, E | 2A |
| TR602 | 0305950 ~ 2 | 2SC945 R, Q, P | 2A |
| TR603 | 0303441, 2 | 2SB527 D, E | 1B |
| TR604 | 0305950 ~ 2 | 2SC945 R, Q, P | 1A |
| TR605 | 0300510 ~ 2 | 2SA733A P, Q, R | 1B |
| TR606 | 0308611, 2 | 2SD357 D, E | 2B |
| TR607 | 0305950 ~ 2 | 2SC945 R, Q, P | 2B |
| ●Zener Diode | | | |
| ZD601, 602 | 0316390 | RD6.2E B | 1A.1B |
| R 601 | 0212330 | 33Ω 2W N.I.R. ..... X | 1A |
| | 0212270 | 27Ω 2W N.I.R. ..... Y | |
| R 602 | 0213221 | 220Ω 3W N.I.R. | 2A |
| R 604 | 0213121 | 120Ω 3W N.I.R. | 2A |
| R 620 | 0212330 | 33Ω 2W N.I.R. ..... X | 1A |
| | 0212270 | 27Ω 2W N.I.R. ..... Y | |
| L 601 | 4290011 | 3.5μH | |
| VR601 | 1035070 | 1kΩ (B) Volume AVR | 1B |

- Note: The circuit boards, F-3114, F-3115, F-3047, F-3048, F-3077, F-3079, F-3081, F-3083, F-3084, F-3085, F-3086, F-3075 & F-3087 are not supplied as the assembled, the individual parts on the circuit board, however, are provided for orders.

## 3-14. F-3114 L-ch Power Transistor Circuit Board

Conductor Side

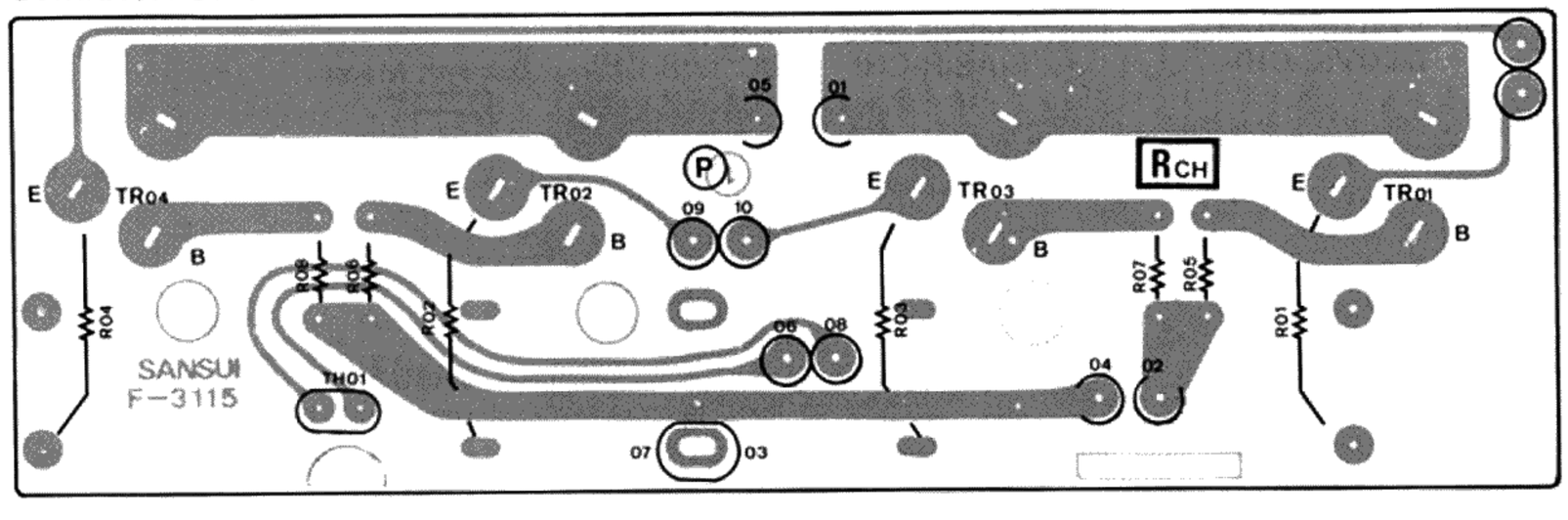



### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| ●Transistor | | |
| TR01 | 0306990, 1 | 2SC2607 O, Y ..... X |
| | 0308630, 1 | 2SD551 R, O ..... Y |
| TR02 | 0301300, 1 | 2SA1116 O, Y ..... X |
| | 0303460, 1 | 2SB681 R, O ..... Y |
| TR03 | 0306990, 1 | 2SC2607 O, Y ..... X |
| | 0308630, 1 | 2SD551 R, O ..... Y |
| TR04 | 0301300, 1 | 2SA1116 O, Y ..... X |
| | 0303460, 1 | 2SB681 R, O ..... Y |
| ●Thermistor | | |
| TH01 | 0320130 | PTH487A |
| R 01 ~ 04 | 0159130 | 0.33Ω 5W Ce.R. |
| R 05 ~ 08 | 0210479 | 4.7Ω 1/2W N.I.R. |

## 3-15. F-3115 R-ch Power Transistor Circuit Board

### Conductor Side




### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| ●Transistor | | |
| TR01 | 0306990, 1 | 2SC2607 O, Y ..... X |
| | 0308630, 1 | 2SD551 R, O ..... Y |
| TR02 | 0301300, 1 | 2SA1116 O, Y ..... X |
| | 0303460, 1 | 2SB681 R, O ..... Y |
| TR03 | 0306990, 1 | 2SC2607 O, Y ..... X |
| | 0308630, 1 | 2SD551 R, O ..... Y |
| TR04 | 0301300, 1 | 2SA1116 O, Y ..... X |
| | 0303460, 1 | 2SB681 R, O ..... Y |
| ●Thermistor | | |
| TH01 | 0320130 | PTH487A |
| R 01 ~ 04 | 0159130 | 0.33Ω 5W Ce.R. |
| R 05 ~ 08 | 0210479 | 4.7Ω 1/2W N.I.R. |

## 3-16. F-3047 FM Front-end Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| | 7510761 | FM Front-end ... X |
| | 7510821 | FM Front-end ... Y |

## 3-17. F-3048 Bar Antenna Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| C 01 | 0621682 | 6800pF 50V P.C. |
| L 01 | 4201021 | Bar Antenna |

## 3-18. F-3077 Mic Jack Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| VR601 | 1090270, 1 | 20kΩ (A) Volume, Mixing |
| J 601 | 2430400 | Mic Jack |

## 3-19. F-3079 Audio Muting Switch Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| S 02 | 1132180 | Push Switch Ass'y ..... Y<br>FM Mode, DOLBY FM, Audio Muting, MPX Noise Canceler |
| S 05 | 1132200 | Push Switch Ass'y ..... X<br>FM Auto Noise Filter, FM IF Band, DOLBY FM De-emphasis, FM-Mode, Audio Muting |

## 3-20. F-3081 Master Volume Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| VR01 | 1011160, 1 | 150kΩ (B) x 2 Volume |

## 3-21. F-3083 Head Phone Jack Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| R 01, 02 | 0183221 | 220Ω 3W Ce.R. |
| J 01 | 2430400 | Head Phone Jack |

## 3-22. F-3084 Loudness Switch Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| C 01, 02 | 0620511 | 510pF 50V P.C. |
| S 01 ~ 03 | 1131540 | Push Switch Ass'y, Loudness, High Filter Subsonic Filter |

## 3-23. F-3085 Selector Indicator Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| LD01 | 0319060 | SG2-12C (RED) |
| LD02 | 0319060 | SG2-12C (RED) |
| LD03 | 0319060 | SG2-12C (RED) |
| LD04 | 0319060 | SG2-12C (RED) |
| LD05 | 0319060 | SG2-12C (RED) |

## 3-24. F-3086 Stereo Indicator Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| LD01 | 0319060 | SG2-12C (RED) FM Stereo |
| LD02 | 0319050 | SG2-13C (GREEN) Quartz Locked |

## 3-25. F-3087 Speaker Indicator Circuit Board

### Parts List

| Parts No. | Stock No. | Description |
|---|---|---|
| LD01 | 0319050 | SG2-13C, Safety Operate (GREEN) |
| LD02 | 0319060 | SG2-12C, Speaker A (RED) |
| LD03 | 0319060 | SG2-12C, Speaker B (RED) |

## 3-26. F-3075 Input Terminal Circuit Board

### Parts List

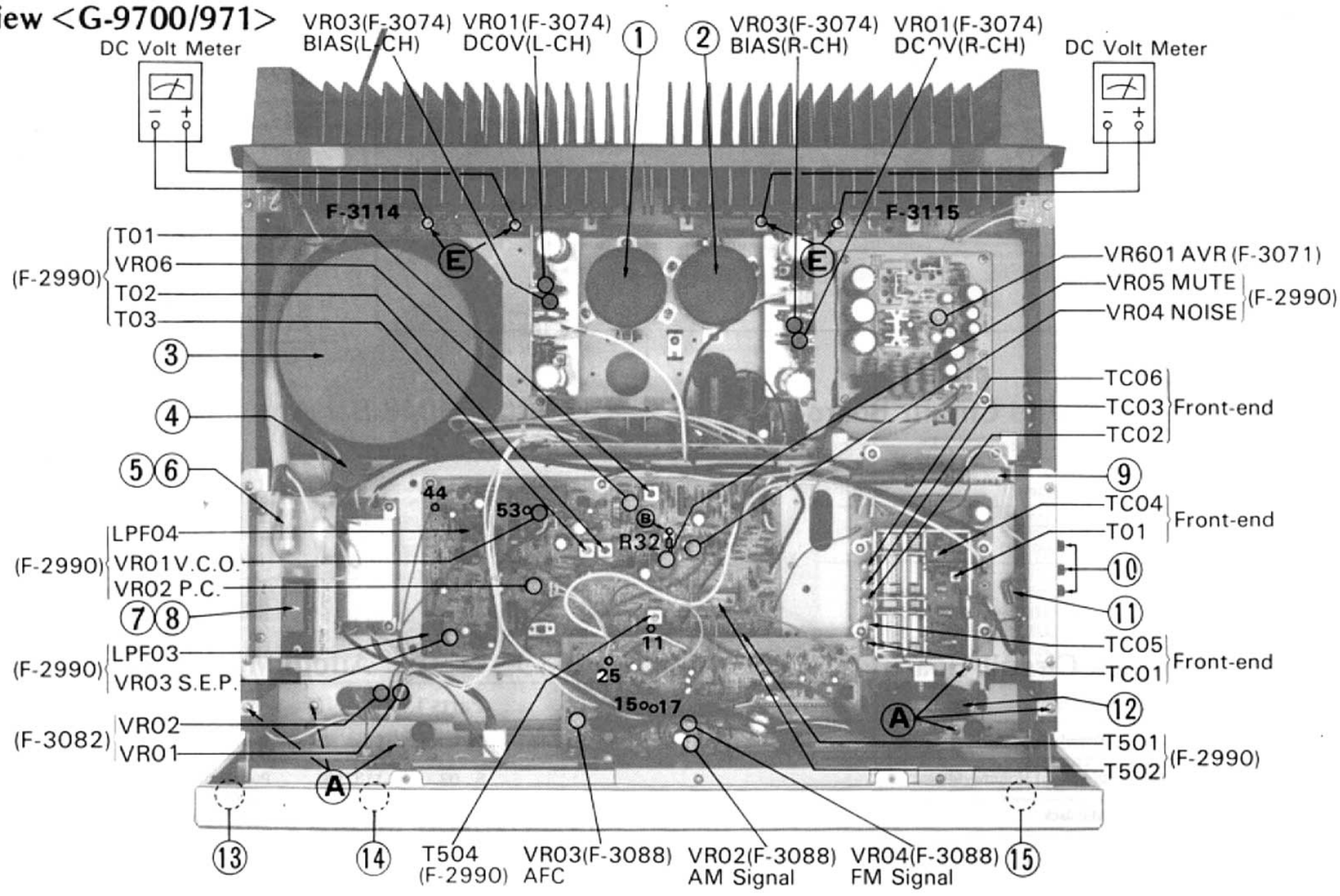
| Parts No. | Stock No. | Description |
|---|---|---|
| | 2200600 | 2P Input Terminal, Phono 1 |
| | 2200620 | 4P Input Terminal, Phono 2, AUX |
| | 2200650 | 4P Input Terminal, Tape 1, Tape 2 |

● Abbreviations

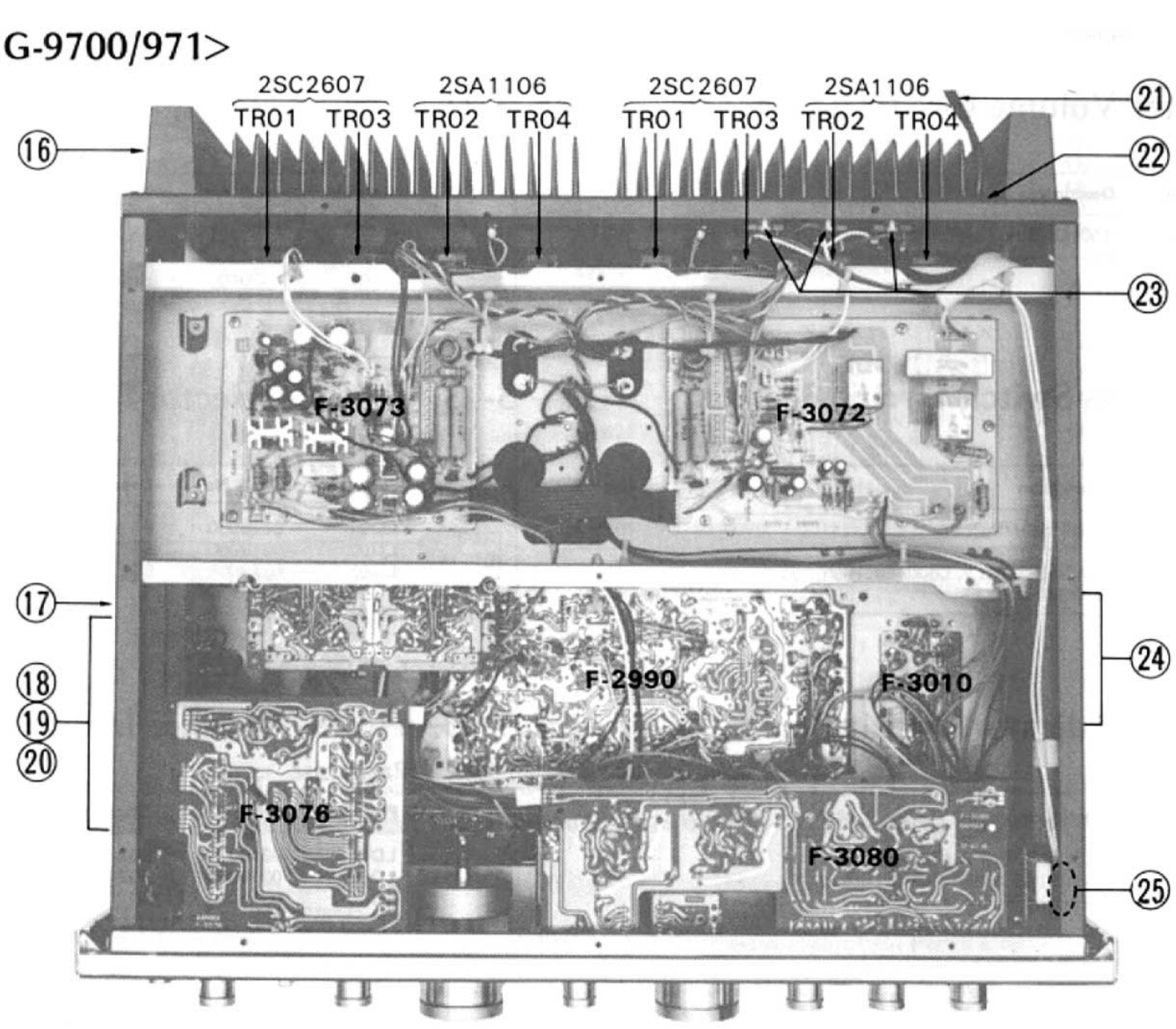
| | | | |
|---|---|---|---|
| C.R. | Carbon Resistor | E.L. | Low Leak Electrolytic Capacitor |
| S.R. | Solid Resistor | E.B. | Bi-Polar Electrolytic Capacitor |
| Ce.R. | Cement Resistor | E.BL. | Low Leak Bi-Polar Electrolytic Capacitor |
| M.R. | Metal Film Resistor | Ta.C. | Tantalum Capacitor |
| F.R. | Fusing Resistor | F.C. | Film Capacitor |
| N.I.R. | Non-Inflammable Resistor | M.P. | Metalized Paper Capacitor |
| C.C. | Ceramic Capacitor | P.C. | Polystyrene Capacitor |
| C.T. | Ceramic Capacitor, Temperature Compensation | G.C. | Gimmic Capacitor |
| E.C. | Electrolytic Capacitor | | |

# 4 OTHER PARTS

## 4-1. Top View <G-9700/971>




## 4-2. Bottom View <G-9700/971>



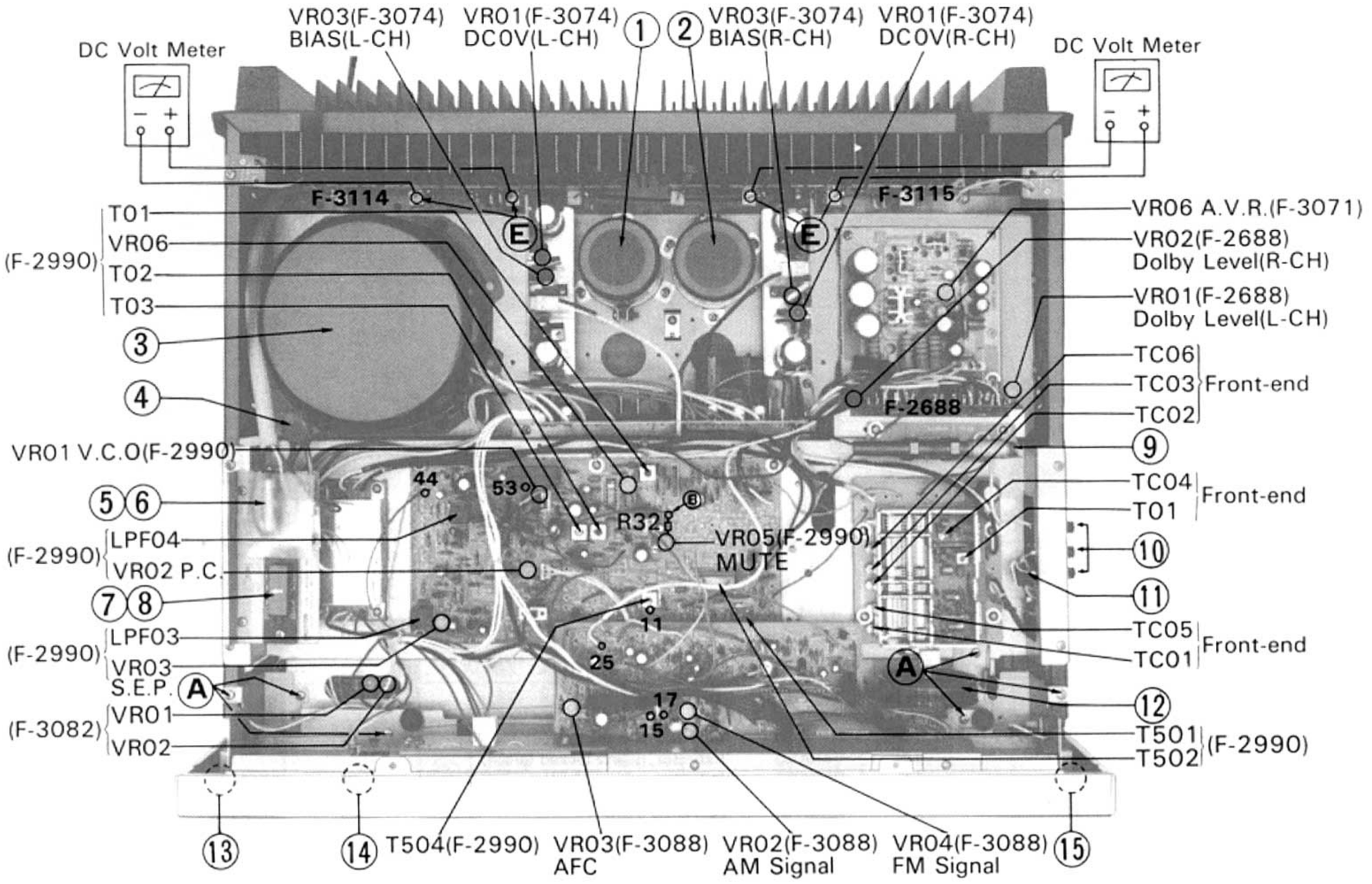

### Parts List (Top & Bottom View) <G-9700/971>

| No. | Parts No. | Stock No. | Description |
|---|---|---|---|
| 1 | C 703 | 0519853 | 12000μF 100V E.C. |
| | C 705 | 0681014 | 0.047μF 400V F.C. |
| 2 | C 704 | 0519853 | 12000μF 100V E.C. |
| | C 706 | 0681014 | 0.047μF 400V F.C. |
| 3 | T 701 | 4003180 | Power Transformer |
| 4 | C 702 | 0659802 | 0.0047μF 150V C.C. |
| 5 | F 701 | 0432300 | Power Fuse 6A 125V |
| | | 0434100 | Power Fuse 12A 125V |
| 6 | | 2310250 | Power Fuse Holder |

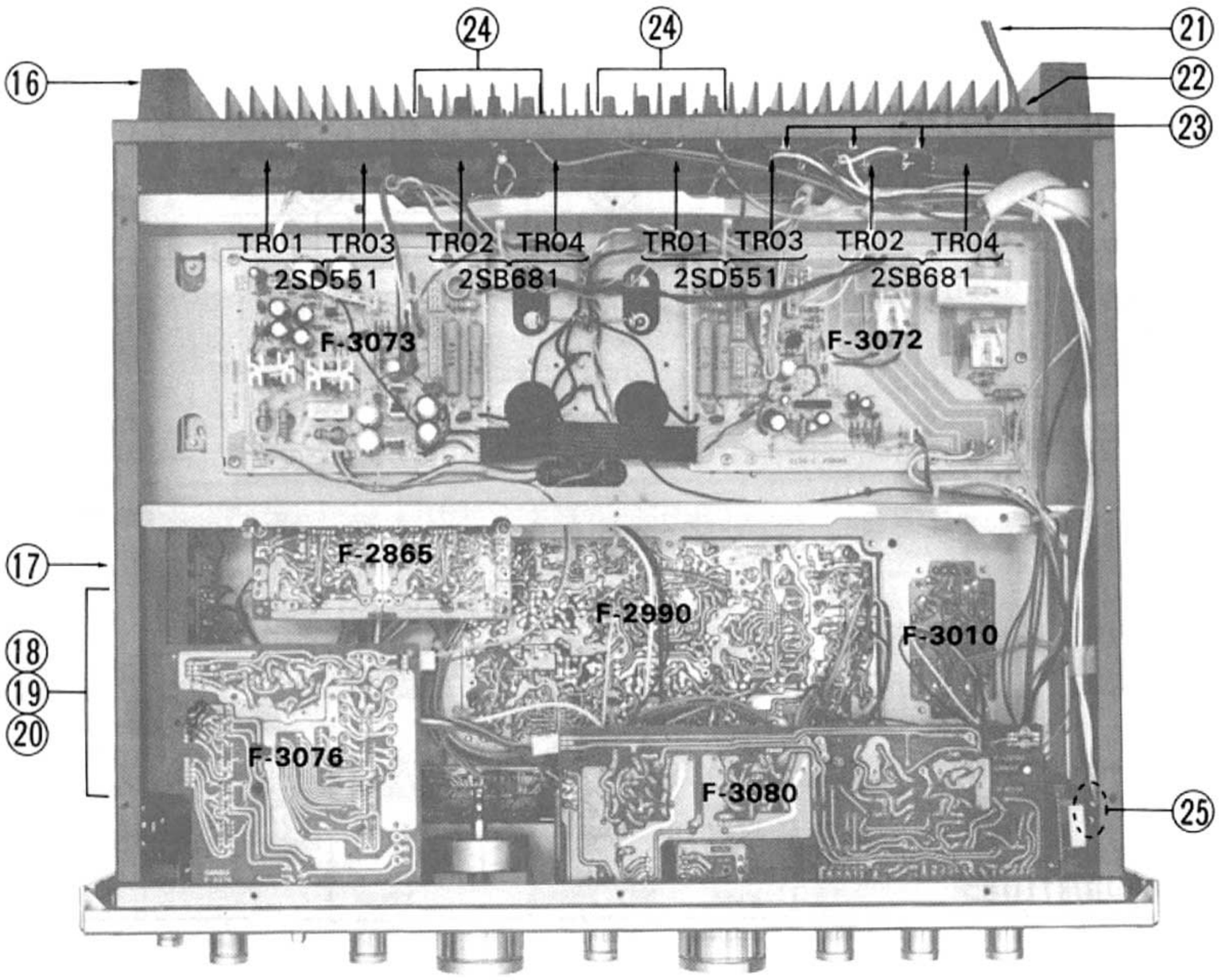
| No. | Parts No. | Stock No. | Description |
|---|---|---|---|
| 7 | | 2410091 | Voltage Selector, plug |
| 8 | | 2410830 | Voltage Selector, socket |
| 9 | | 4201021 | Bar Antenna |
| 10 | | 2210310 | Antenna Terminal |
| 11 | L 701 | 4290023, 4 | Balun |
| 12 | | 6146741 | Pulley |
| 13 | PL 701 | 0400710 | Pilot Lamp |
| 14 | PL 703 | 0400660 | Pilot Lamp |
| 15 | PL 702 | 0400710 | Pilot Lamp |

| No. | Parts No. | Stock No. | Description |
|---|---|---|---|
| 16 | | 5216110 | Back Stand |
| 17 | | 2230190 | Ground Terminal |
| 18 | | 2200600 | 2P Input Terminal, phono 1 |
| 19 | | 2200620 | 4P Input Terminal phono2, aux |
| 20 | | 2200650 | 4P Input Terminal, tape1, tape2 |
| 21 | | 3800490 | Power Cord |
| 22 | | 3910490 | Strain Relief |
| 23 | | 2450070 | AC Outlet |
| 24 | | 2290190 | Speaker Terminal |
| 25 | C 701 | 0659801 | 0.01μF 150V C.C. |

## 4-3. Top View <G-8700DB/871DB>



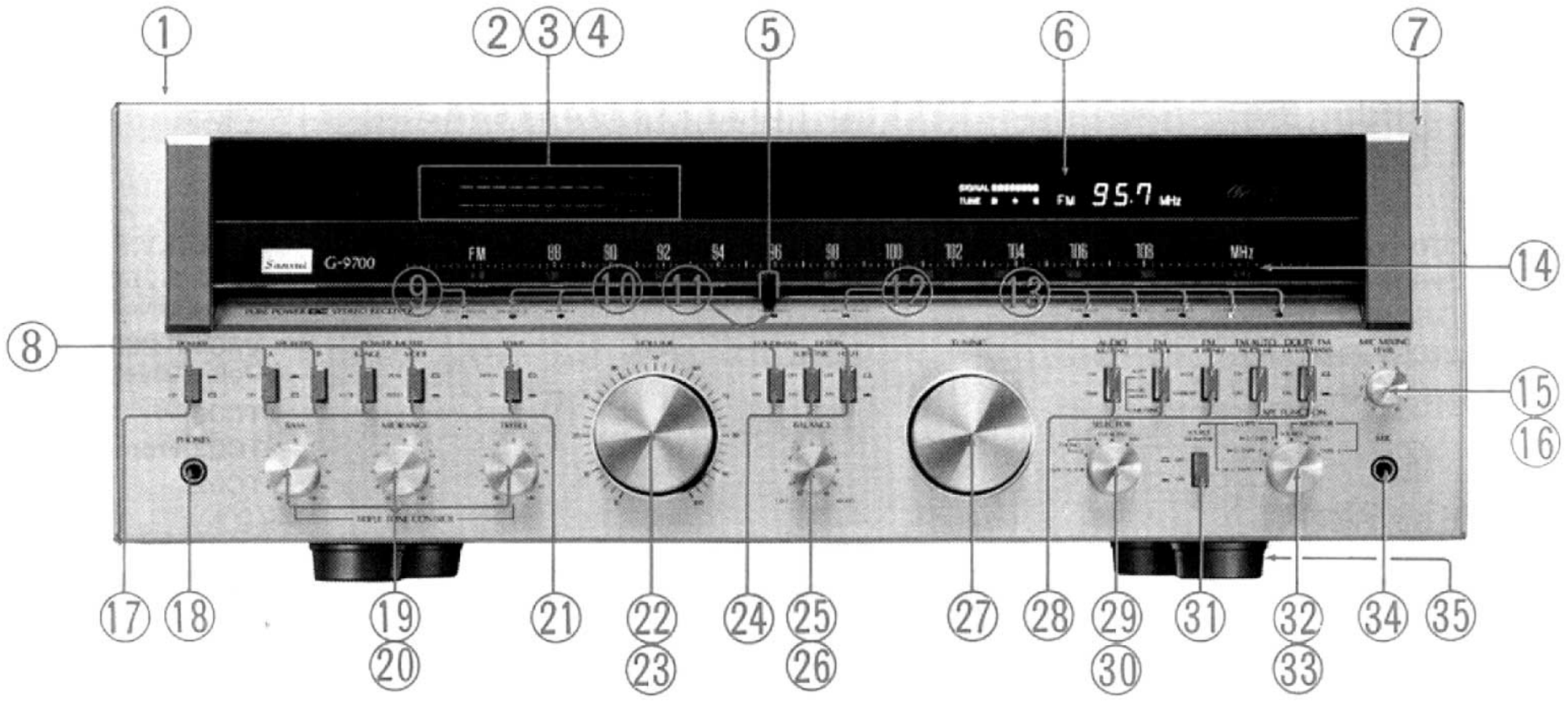

## 4-4. Bottom View <G-8700DB/871DB>




### Parts List (Top & Bottom View) <G-8700DB/871DB>

| No. | Parts No. | Stock No. | Description |
|---|---|---|---|
| 1 | C 703 | 0519853 | 12000μF 100V E.C. |
| | C 705 | 0681014 | 0.047μF 400V F.C. |
| 2 | C 704 | 0519853 | 12000μF 100V E.C. |
| | C 706 | 0681014 | 0.047μF 400V F.C. |
| 3 | T 701 | 4003170 | Power Transformer |
| 4 | C 702 | 0659802 | 0.0047μF 150V C.C. |
| 5 | F 701 | 0432300 | Fuse 6A 125V |
| | | 0434100 | Fuse 12A 125V |
| 6 | | 2310250 | 1P Fuse Holder |
| 7 | | 2410091 | Voltage Selector, Plug |
| 8 | | 2410830 | Voltage Selector, Socket |
| 9 | | 4201021 | Bar Antenna |
| 10 | | 2210310 | Antenna Terminal |
| 11 | L 701 | 4290023, 4 | Balun |
| 12 | | 6146741 | Pulley |
| 13 | PL 701 | 0400710 | Pilot Lamp |
| 14 | PL 703 | 0400660 | Pilot Lamp |
| 15 | PL 702 | 0400710 | Pilot Lamp |
| 16 | | 5216100 | Back Stand |
| 17 | | 2230190 | Ground Terminal |
| 18 | | 2200600 | 2P Input Terminal, Phono 1 |
| 19 | | 2200620 | 4P Input Terminal, Phono 2, AUX |
| 20 | | 2200650 | 4P Input Terminal, Tape 1, Tape 2 |
| 21 | | 3800470 | Power Cord |
| 22 | | 3910600 | Strain Relief |
| 23 | | 2450070 | AC Outlet |
| 24 | | 2210410 | 4P Speaker Terminal |
| 25 | C 701 | 0659801 | 0.01μF 150V C.C. |

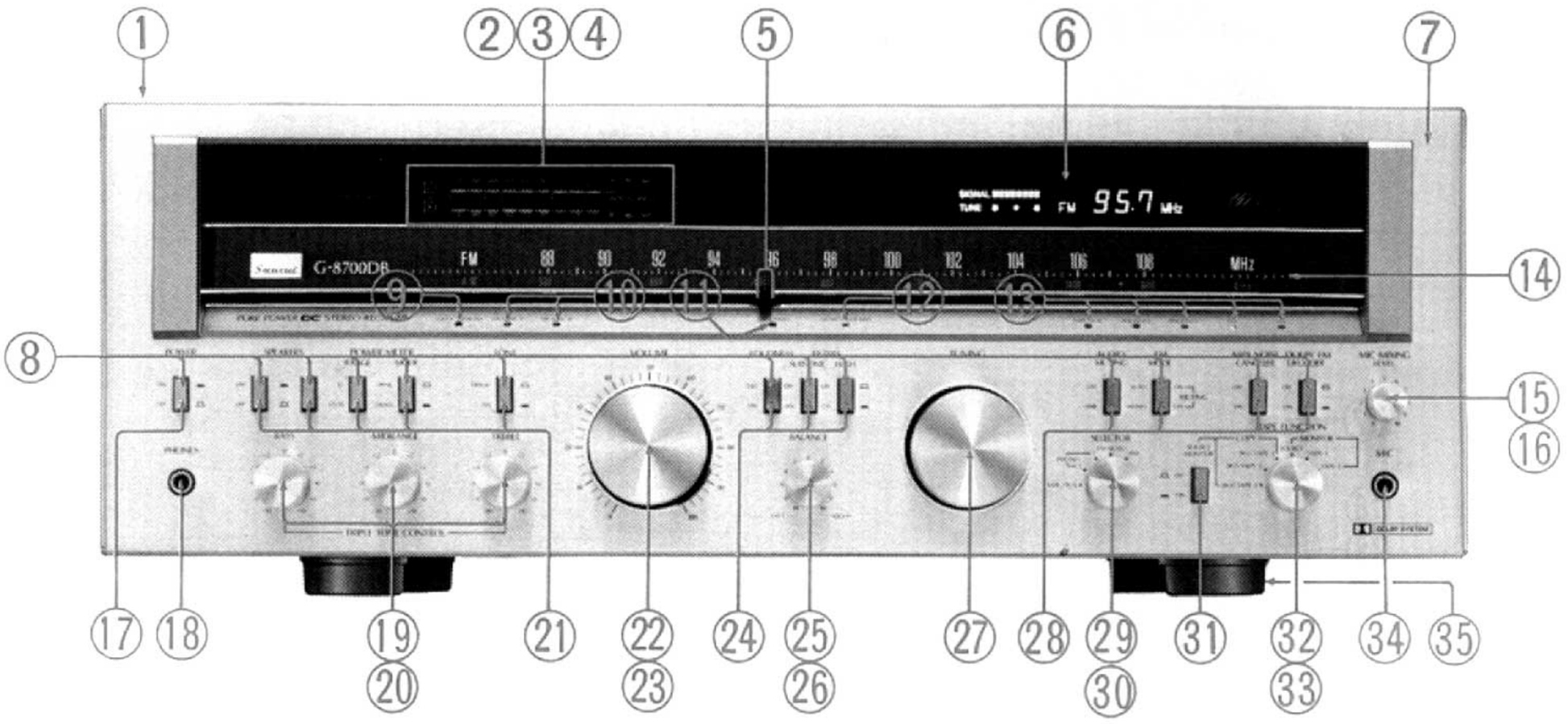
## 4-5. Front View <G-9700/971>




### Parts List (Front View) <G-9700/971>

| Parts No. | Stock No. | Description |
|---|---|---|
| 1 | 5727200 | Wood Bonnet |
| 2 | 5446460 | Smoked Plate |
| 3 | 5426530 | LED Guide Plate |
| 4 | 0319420 | LED Ass'y |
| 5 | 7116101 | Dial Pointer |
| 6 | 0030060 | Display Unit |
| 7 | 7008480 | Front Panel Ass'y <G-9700> |
| | 7008670 | Front Panel Ass'y <G-971> |
| | 5048430 | Masking Plate |
| | 5396781 | Knob Guide <G-9700> |
| | 5396771 | Knob Guide <G-971> |
| | 5446490 | Front Glass |
| | 5458040 | Dial Flame |
| 8 | 5319491 | Push Switch Knob |
| 9 | 0319050 | Indicator, safety operate (green) |
| 10 | 0319060 | Indicator, speaker A, B, (red) |
| 11 | 0319060 | Indicator, FM stereo (red) |
| 12 | 0319050 | Indicator, quartz locked (green) |
| 13 | 0319060 | Indicator, selector (red) |
| 14 | 5408760 | Dial Glass <G-9700> |
| | 5408770 | Dial Glass <G-971> |
| 15 | 5319450 | Knob, mic mixing |
| 16 | 1090270, 1 | Mic, Mixing Volume |
| 17 | 1131650 | Power Switch |
| 18 | 2430400 | Head Phone Jack |
| 19 | 5319470 | Knob, bass, midrange, treble |
| 20 | 1015200, 1 | Bass, Midrange, Treble Volume, 100kΩ (B) x 2 |
| 21 | 1132190 | Push Switch Ass'y, tone, speakers A, B, power meter, meter range |
| 22 | 5319440 | Knob, master |
| 23 | 1011160, 1 | Master Volume, 150kΩ (B) x 2 |
| 24 | 1131540 | Push Switch Ass'y, loudness, high filter, subsonic filter |
| 25 | 5319460 | Knob, balance |
| 26 | 1015340, 1 | Balance Volume, 250kΩ (MN) x 2 |
| 27 | 5319430 | Knob, tuning |
| 28 | 1132200 | Push Switch Ass'y, FM auto noise filter, IF band, dolby FM mode-FM muting, audio muting |
| 29 | 5319470 | Knob, selector |
| 30 | 1190750 | Selector Switch |
| 31 | 1131550 | Source Monitor Switch |
| 32 | 5319470 | Knob, tape monitor |
| 33 | 1190740 | Tape Monitor Switch |
| 34 | 2430400 | Mic Jack |
| 35 | 5517050 | Leg |

## 4-6. Front View <G-8700DB/871DB>




### Parts List (Front View) <G-8700DB/871DB>

| Parts No. | Stock No. | Description |
|---|---|---|
| 1 | 5727210 | Wood Bonnet |
| 2 | 5446460 | Smoked Plate |
| 3 | 5426540 | LED Guide Plate |
| 4 | 0319420 | LED Ass'y |
| 5 | 7116101 | Dial Pointer |
| 6 | 0030060 | Fluorescent Display Unit |
| 7 | 7008490 | Front Panel Ass'y <G-8700DB> |
| | 7008680 | Front Panel Ass'y <G-871DB> |
| | 5048430 | Masking Plate |
| | 5396781 | Knob Guide <G-8700DB> |
| | 5396771 | Knob Guide <G-871DB> |
| | 5446490 | Front Glass |
| | 5458040 | Dial Frame |
| 8 | 5319491 | Push Knob |
| 9 | 0319050 | Indicator, Safety Operate (Green) |
| 10 | 0319060 | Indicator, Speakers A, B (Red) |
| 11 | 0319060 | Indicator, FM Stereo (Red) |
| 12 | 0319050 | Indicator, Quartz Locked (Green) |
| 13 | 0319060 | Indicator, selector (Red) |
| 14 | 5408780 | Dial Glass <G-8700DB> |
| | 5408790 | Dial Glass <G-871DB> |
| 15 | 5319450 | Knob, Mic Mixing |
| 16 | 1090270, 1 | Mic Mixing Volume 20kΩ (A) |
| 17 | 1131650 | Power Switch |
| 18 | 2430400 | Headphone Jack |
| 19 | 5319470 | Knob, Bass, Midrange, Treble 100kΩ (B) x 2 |
| 20 | 1015200, 1 | Bass, Midrange, Treble Volume 100kΩ (B) x 2 |
| 21 | 1132190 | Push Switch Ass'y, Tone, Speakers A, B, Power meter |
| 22 | 5319440 | Knob, Master Volume |
| 23 | 1011160, 1 | Master Volume 150kΩ (B) x 2 |
| 24 | 1131540 | Push Switch Ass'y, Loudness, High Filter, Subsonic Filter |
| 25 | 5319460 | Knob, Balance |
| 26 | 1015340, 1 | Balance Volume 250kΩ (MN) x 2 |
| 27 | 5319430 | Knob, Tuning |
| 28 | 1132180 | Push Switch Ass'y, Audio Muting, FM Mode, MPX Noise Canceler DOLBY FM |
| 29 | 5319470 | Knob, Selector |
| 30 | 1190750 | Selector Switch |
| 31 | 1131550 | Source Monitor Switch |
| 32 | 5319470 | Knob, Tape Function |
| 33 | 1190740 | Tape Function on Switch |
| 34 | 2430400 | Mic Jack |
| 35 | 5517050 | Leg |

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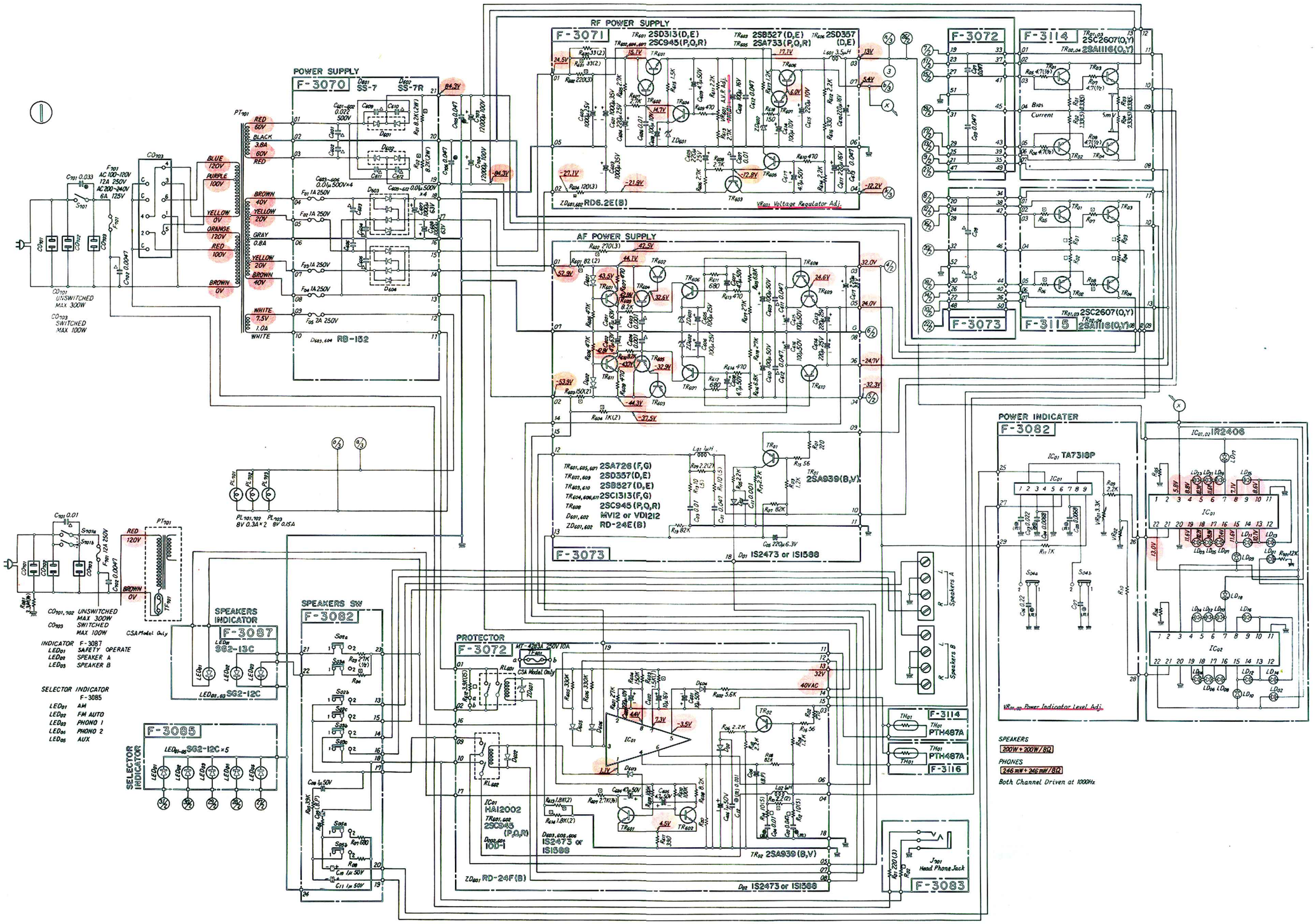
• Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

# 5. SCHEMATIC DIAGRAM

## 5-1. Power Supply Section <G-9700/971>




2SA726 2SA906 2SC1313 — 2SD313 — 2SK117 2SK163

2SA939 2SC1904 2SC2071 — 2SB527 2SD357 — 2SA733 2SA872 2SA992 2SC945 2SC1674 2SC1675 2SC1775 2SC1845

2SA968 2SC2238 — TA7318 — 2SA1116 2SC2607

2SK97 — P873-G35-811

NJM4558D — μPC1198H HA12002

MSM5540RS — HA11223W HA11225 HA1197 NE5458

AN6821 — SN74LS90N

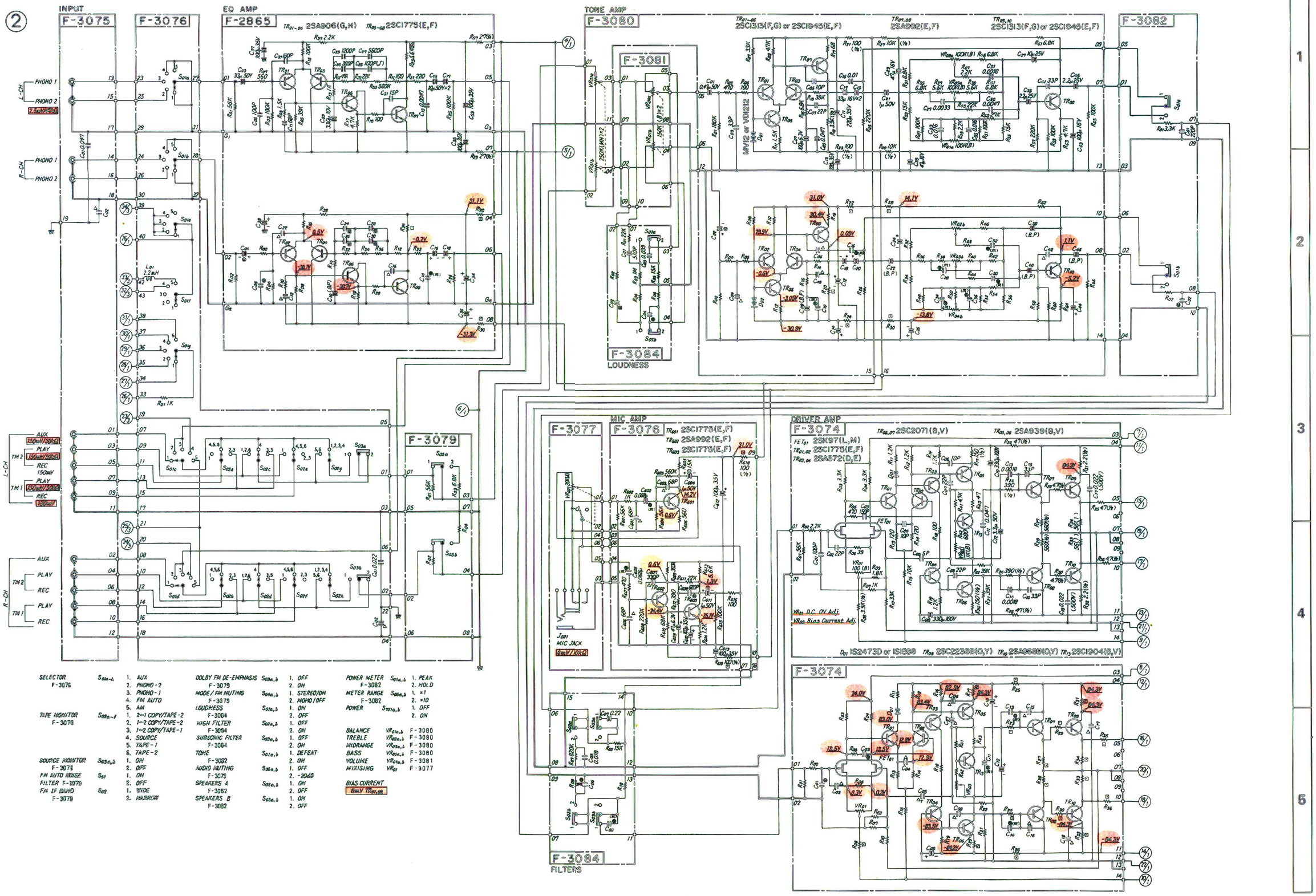
IN34A — RD6.2E RD24F — IS1588 IS2473D IOD-1

VD1212 MV12 — SS-7

RB-152 — SS-7R

1 2 3 4 5

## 5-2. Audio Section <G-9700/971>




| | | | |
|---|---|---|---|
| SELECTOR F-3076 | $S_{301a-h}$ | 1. AUX<br>2. PHONO-2<br>3. PHONO-1<br>4. FM AUTO<br>5. AM | |
| TAPE MONITOR F-3076 | $S_{302a-f}$ | 1. 2→1 COPY/TAPE-2<br>2. 1→2 COPY/TAPE-2<br>3. 1→2 COPY/TAPE-1<br>4. SOURCE<br>5. TAPE-1<br>6. TAPE-2 | |
| SOURCE MONITOR F-3076 | $S_{303a,b}$ | 1. ON<br>2. OFF | |
| FM AUTO NOISE FILTER F-3079 | $S_{93}$ | 1. ON<br>2. OFF | |
| FM IF BAND F-3079 | $S_{92}$ | 1. WIDE<br>2. NARROW | |
| DOLBY FM DE-EMPHASIS F-3079 | $S_{304a,b}$ | 1. OFF<br>2. ON | |
| MODE / FM MUTING F-3079 | $S_{305a,b}$ | 1. STEREO/ON<br>2. MONO / OFF | |
| LOUDNESS F-3084 | $S_{101a,b}$ | 1. ON<br>2. OFF | |
| HIGH FILTER F-3094 | $S_{102a,b}$ | 1. OFF<br>2. ON | |
| SUBSONIC FILTER F-3084 | $S_{103a,b}$ | 1. OFF<br>2. ON | |
| TONE F-3082 | $S_{101a,b}$ | 1. DEFEAT<br>2. ON | |
| AUDIO MUTING F-3079 | $S_{306a,b}$ | 1. OFF<br>2. -20dB | |
| SPEAKERS A F-3052 | $S_{307a,b}$ | 1. ON<br>2. OFF | |
| SPEAKERS B F-3082 | $S_{308a,b}$ | 1. ON<br>2. OFF | |
| POWER METER F-3082 | $S_{309a,b}$ | 1. PEAK<br>2. HOLD | |
| METER RANGE F-3082 | $S_{309a,b}$ | 1. ×1<br>2. ×10 | |
| POWER | $S_{310a,b}$ | 1. OFF<br>2. ON | |
| BALANCE | $VR_{201a,b}$ | F-3080 | |
| TREBLE | $VR_{202a,b}$ | F-3080 | |
| MIDRANGE | $VR_{203a,b}$ | F-3080 | |
| BASS | $VR_{204a,b}$ | F-3080 | |
| VOLUME | $VR_{205a,b}$ | F-3081 | |
| MIXISING | $VR_{01}$ | F-3077 | |

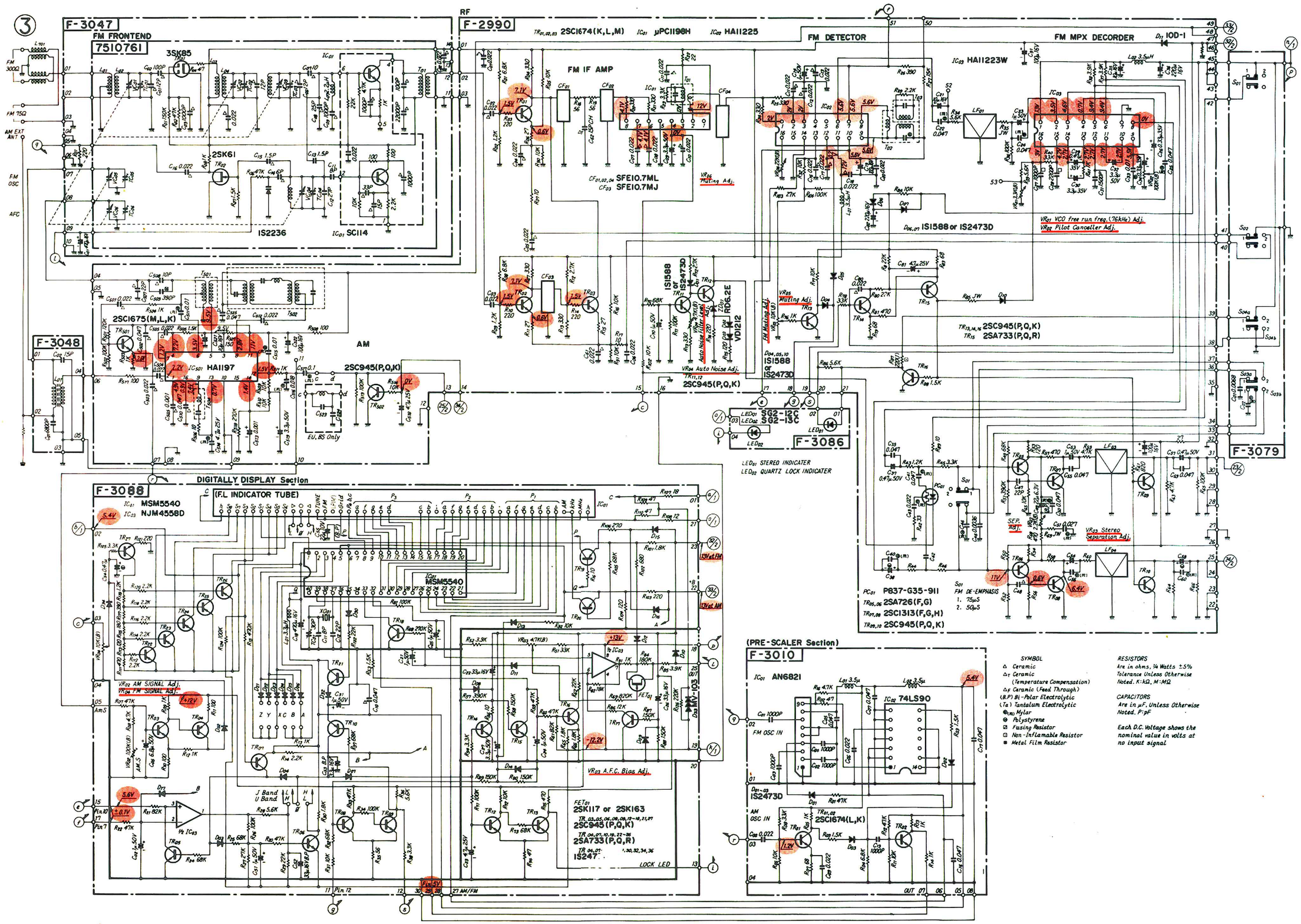
BIAS CURRENT 6mV $TR_{07,08}$

• Design and specifications subject to change without notice for improvement.
• La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
• Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

A | B | C | D | E | F | G | H

1 | 2 | 3 | 4 | 5

## 5-3. Tuner Section <G-9700/971>



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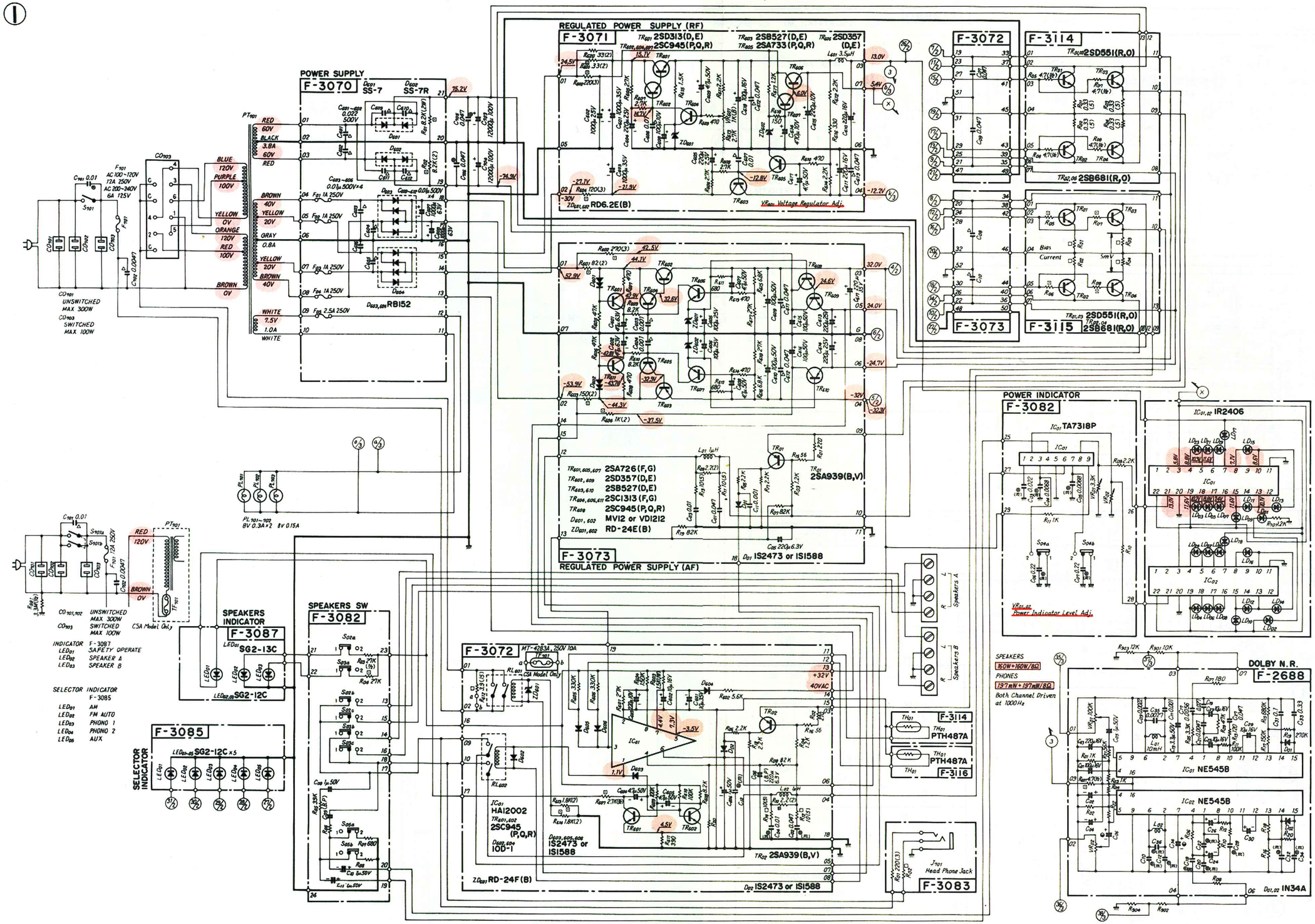
| A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|

## 5-4. Power Supply Section <G-8700DB/871DB>




2SA726 2SA906 2SC1313 · 2SD313 · 2SK117 2SK163
2SA939 2SC1904 2SC2071 · 2SB527 2SD357 · 2SA733 2SA872 2SA992 2SC945 2SC1674 2SC1675 2SC1775 2SC1845
2SA968 2SC2238 · TA7318 · 2SA1116 2SC2607
2SK97 · P873 G35 911
NJM4558D · μPC1198H HA12002
MSM5540RS · HA11223W HA11225 HA1197 NE545B
AN6821 · SN74LS90N
IN34A · RD6.2E RD24F · IS15588 IS2473D IOD 1
VD1212 MV12 · SS 7
RB 152 · SS 7R

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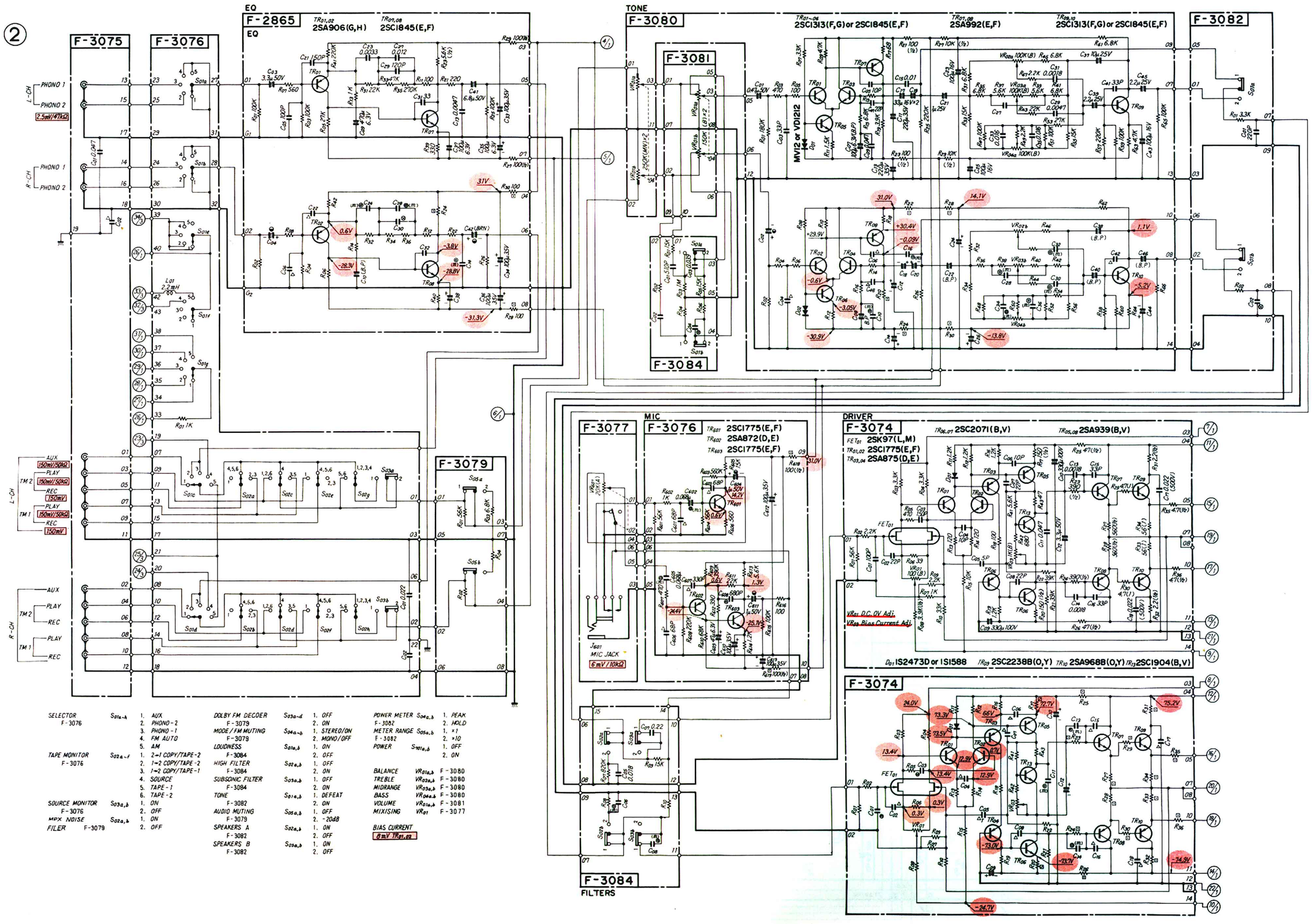
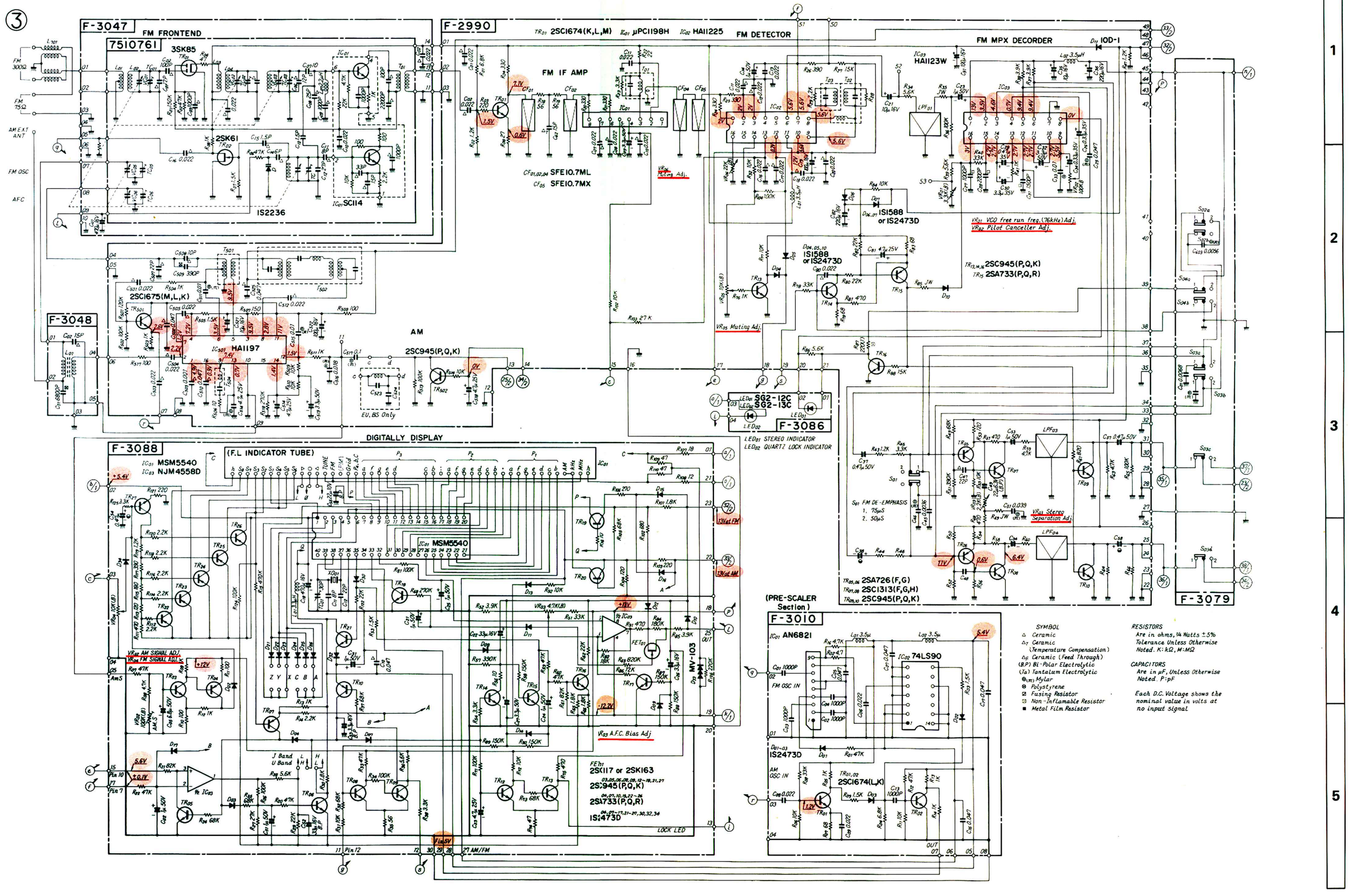
A | B | C | D | E | F | G | H

1 | 2 | 3 | 4 | 5

## 5-5. Audio Section <G-8700DB/871DB>



## 5-6. Tuner Section <G-8700DB/871DB>



# 6. THREADING OF DIAL CORD

- If a dial cord is cut off or slips, replace it by following procedures. As this unit uses 0.5 mm$\phi$ cord, please replace it with the same type certainly.
- The length of dial cord is approximately 200 cm (78.7 inch).

## 1. Threading of Dial Cord

Thread the dial cord in numerical order from ① to ⑬ as Fig. 1.

- Open the variable capacitor completely.

* Dial Cord (0.5 mm$\phi$) . . . . . (Stock No. 6036050)

## 2. Attachment of Dial Pointer

1. After installing the dial string, turn on the power switch. If the digital display is in the "FM Reception" state,turn the tuning knob until the digital display indicates 98.0 MHz. Then, fix the pointer to the dial string, after setting the pointer to the 98.0 MHz value of the scale.
2. After attaching Dial pointer, confirm Dial pointer moves from 88 MHz to 108 MHz to turn the tuning knob.

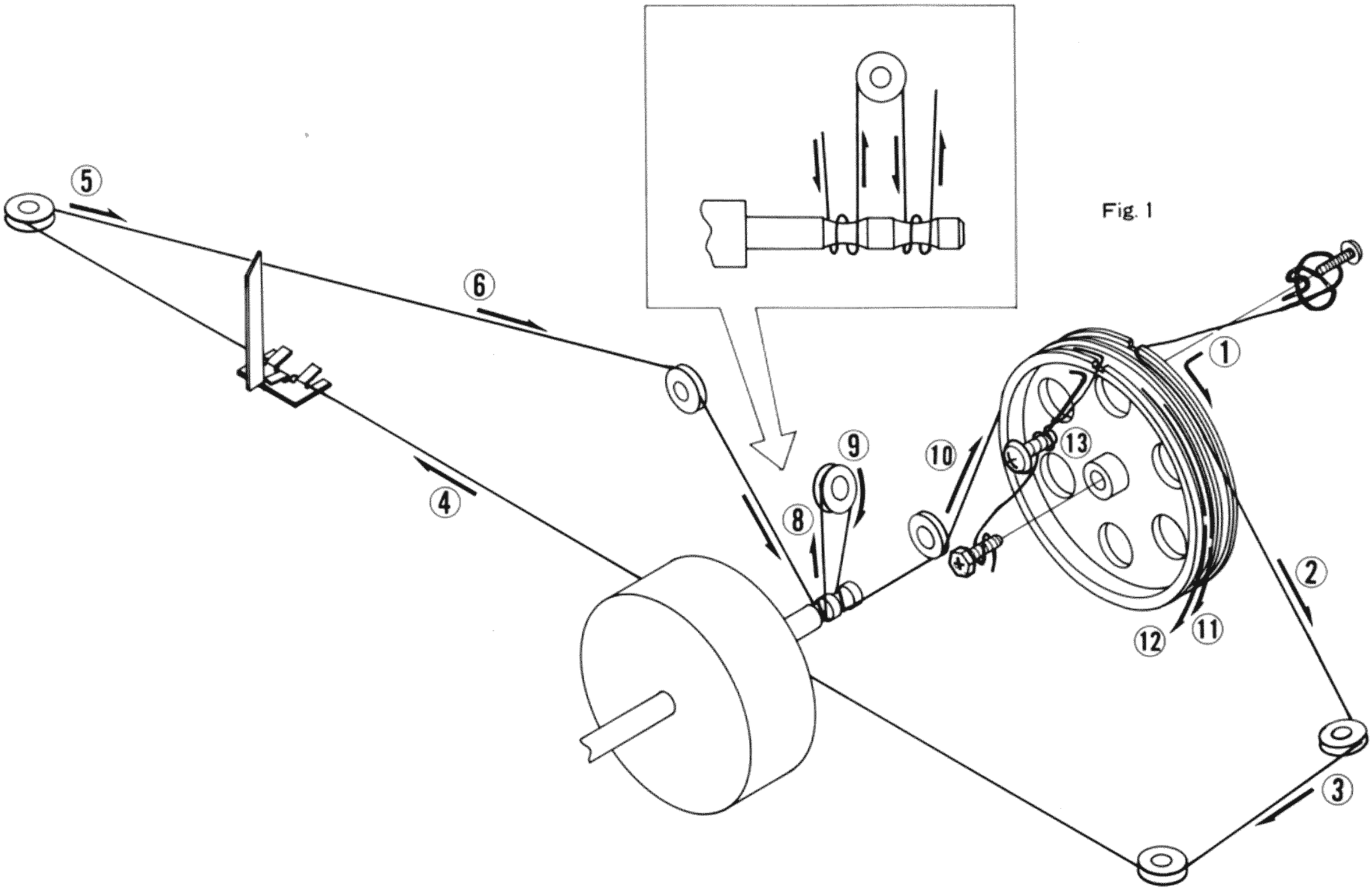



Fig. 1

# 7. MAIN PARTS REPLACEMENT

## 7-1. Master Volume Replacement

1) Puck out, the volume knob.
2) Loosen the nut fastning the volume to chassis.
3) Take off the volume from F-3081, Circuit Board to remove solder.

## 7-2. Power Transistor Replacement

1) Take off the radiation fin to loosen 8 fixing screws on the rear panel.
2) Loosen 2 screws fixing a power transistor to heat sink.

## 7-3. Front Panel Replacement

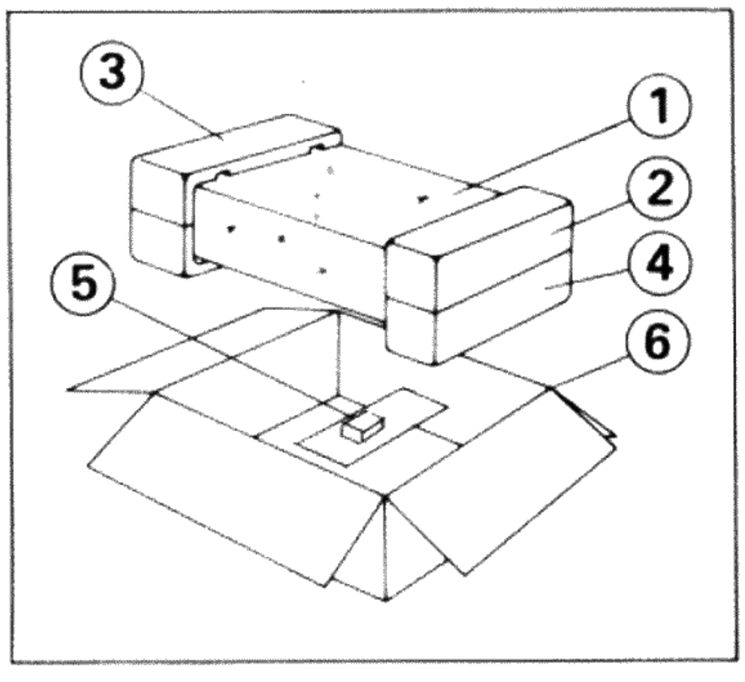
1) Remove bonnet and bottom plate.
2) Loosen 2 flat countersunk head screws fixing the front panel.
3) Loosen 3 nuts fixing the front panel after pluck out every knob except push knobs.

## 7-4. Replacement of LED Indication Circuit Board for Selector, Speaker, Stereo and Quartz Lock

1) Remove the front panel following to procedures above.
2) Lift up the tuning mechanism slightly to remove 6 screws A (Shown in Page 13 & 14, Top View)
3) Remove 2 T-rivets fixing LED Indication Circuit Board.

# 8. PACKING LIST

| Parts No. | Stock No. | Description |
|---|---|---|
| 1 | 9116741 | Vinyl Cover |
| 2 | 9028120 | Styrofoam Packing, upper (R) |
| 3 | 9028130 | Styrofoam Packing, upper (L) |
| 4 | 9028110 | Styrofoam Packing, lower |
| 5 | 9028160 | Styrofoam Packing |
| 6 | 9056030 | Carton Case <G-9700> |
| | 9056040 | Carton Case <G-971> |
| | 9056050 | Carton Case <G-8700DB> |
| | 9056060 | Carton Case <G-871DB> |




# 9. ACCESSORY PARTS LIST

| Stock No. | Description |
|---|---|
| 9205000 | Operating Instructions <G-9700> |
| 9205290 | Operating Instructions <G-971> |
| 9205010 | Operating Instructions <G-8700DB> |
| 9205300 | Operating Instructions <G-871DB> |
| 9238270 | Schematic Diagram <G-9700> |
| 9238280 | Schematic Diagram <G-971> |
| 9238290 | Schematic Diagram <G-8700DB> |
| 9238300 | Schematic Diagram <G-871DB> |


Sansui

SANSUI ELECTRONICS CORPORATION: 1250 Valley Brook Ave. Lyndhurst, N.J. 07071 U.S.A.
333 West Alondra Blvd. Gardena, California 90247 U.S.A.
3036 Koapaka St. Honolulu, Hawaii 96819 U.S.A.
SANSUI AUDIO EUROPE N.V.: North Trade Bldg (9th floor) Noorderlaan 133-Bus 1,2030 Antwerp, Belgium
SNASUI AUDIO EUROPE S.A.: Arabella center, 6 Frankfurt AM Main, Lyoner Strasse 44-48, West Germany
SANSUI ELECTRIC COMPANY LTD.: 14-1, Izumi 2-chome, Suginamiku, Tokyo 168 Japan PHONE: (03) 323-1111/TELEX: 232-2076

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