

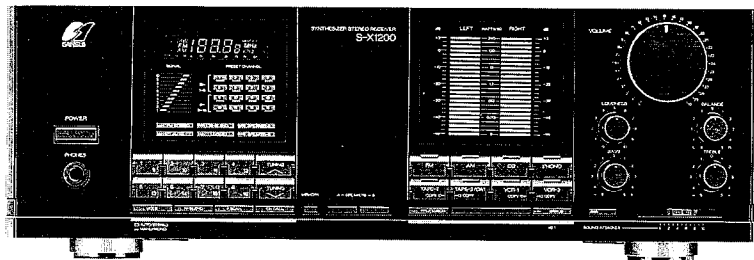
329



SERVICE MANUAL

S-X1200 S-X900

SYNTHESIZER STEREO RECEIVER



CAUTION

1. Parts identified by the \triangle symbol on the schematic diagram and the parts list are critical for safety.
Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

•SPECIFICATIONS

<S-X1200>

Audio section

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz with no more than 0.018% total harmonic distortion
120 watts per channel into 8 ohms

Total harmonic distortion less than 0.018% at or below rated min. RMS power output

Load impedance 4~16 ohms

Input sensitivity and impedance (1 kHz)

PHONO 2.5 mV/47 kohms

CD, TAPE PLAY 150 mV/47 kohms

Frequency response (at 1 watt)

..... 10 to 70,000 Hz,
+1 dB, -3 dB

Signal to noise ration (short-circuit, A-network)

PHONO 73 dB

CD, TAPE PLAY 95 dB

Controls

BASS ± 8 dB at 50 Hz

TREBLE ± 8 dB at 10 kHz

LOUDNESS +8 dB at 50 Hz

(VOLUME: -30 dB position) +6 dB at 10 kHz

FM section

Tuning range 88 to 108 MHz

Usable sensitivity

Mono IHF 10.8 dBf (1.9 μ V: T-100)

50 dB quieting sensitivity

Stereo 37 dBf

Signal to noise ratio (at 65 dBf)

Stereo 70 dB

Distortion (at 65 dBf)

Stereo less than 0.2% at 1,000 Hz

Stereo separation 40 dB at 1,000 Hz

AM section

Tuning range 530 to 1,600 kHz

Usable sensitivity (Loop antenna)

..... 52 dB/m (398 μ V/m)

Signal to noise ratio 45 dB

Others

Power requirements 120/220/240V

50/60 Hz

For U.S.A. and Canada

..... 120V (60 Hz)

Power consumption 420 watts 530 VA Rated

Dimensions 448 mm (17-11/16") W

156 mm (6-3/16") H

428 mm (16-7/8") D

Weight 14 kg (30.9 lbs) net

16.3 kg (35.9 lbs) packed

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

* Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selectors

to be continued ▶

•SPECIFICATIONS

<S-X900>

Audio section

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz with no more than 0.025% total harmonic distortion
80 watts per channel into 8 ohms

Total harmonic distortion less than 0.025% at or below rated min. RMS power output

Load impedance..... 4~16 ohms

Input sensitivity and impedance (1 kHz)

PHONO..... 2.5 mV/47 kohms

CD, TAPE PLAY..... 150 mV/47 kohms

Frequency response (at 1 watt)

..... 10 to 70,000 Hz,
+1 dB, -3 dB

Signal to noise ratio (short-circuit, A-network)

PHONO..... 73 dB

CD, TAPE PLAY..... 95 dB

Controls

BASS..... ±8 dB at 50 Hz

TREBLE..... ±8 dB at 10 kHz

LOUDNESS +8 dB at 50 Hz

..... +6 dB at 10 kHz

(VOLUME: -30 dB position)

FM section

Tuning range..... 88 to 108 MHz

Usable sensitivity

Mono IHF 10.8 dBf (1.9 μV: T-100)

50 dB quieting sensitivity

Stereo 37 dBf

Signal to noise ratio (at 65 dBf)

Stereo 70 dB

Distortion (at 65 dBf)

Stereo less than 0.2% at 1,000 Hz

Stereo separation 40 dB at 1,000 Hz

AM section

Tuning range..... 530 to 1,600 kHz

Usable sensitivity (Loop antenna)

..... 52 dB/m (398 μV/m)

Signal to noise ratio 45 dB

Others

Power requirements 120/220/240V 50/60 Hz

For U.S.A. and Canada

..... 120V (60 Hz)

Power consumption 310 watts 370 VA Rated

440 watts Maximum

Dimensions 448 mm (17-11/16") W

156 mm (6-3/16") H

428 mm (16-7/8") D

Weight 13 kg (28.7 lbs) net

15.3 kg (33.7 lbs) packed

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

* Due to local laws and regulations, this unit sold in some areas is not equipped with variable voltage selector.

NOTE

1. The symbols, UL, CSA, EU, SS, XX <EXPORT> on the parts list and the schematic diagram mean followings respectively.

UL..... Manufactured for U.S.A market.
(Underwriters Laboratories approved model.)

CSA Manufactured for Canadian market.

EU Manufactured for European market.

SS..... Manufactured for Saudi Arabia market.

XX <EXPORT> Standard Version.

NON MARK Common Parts.

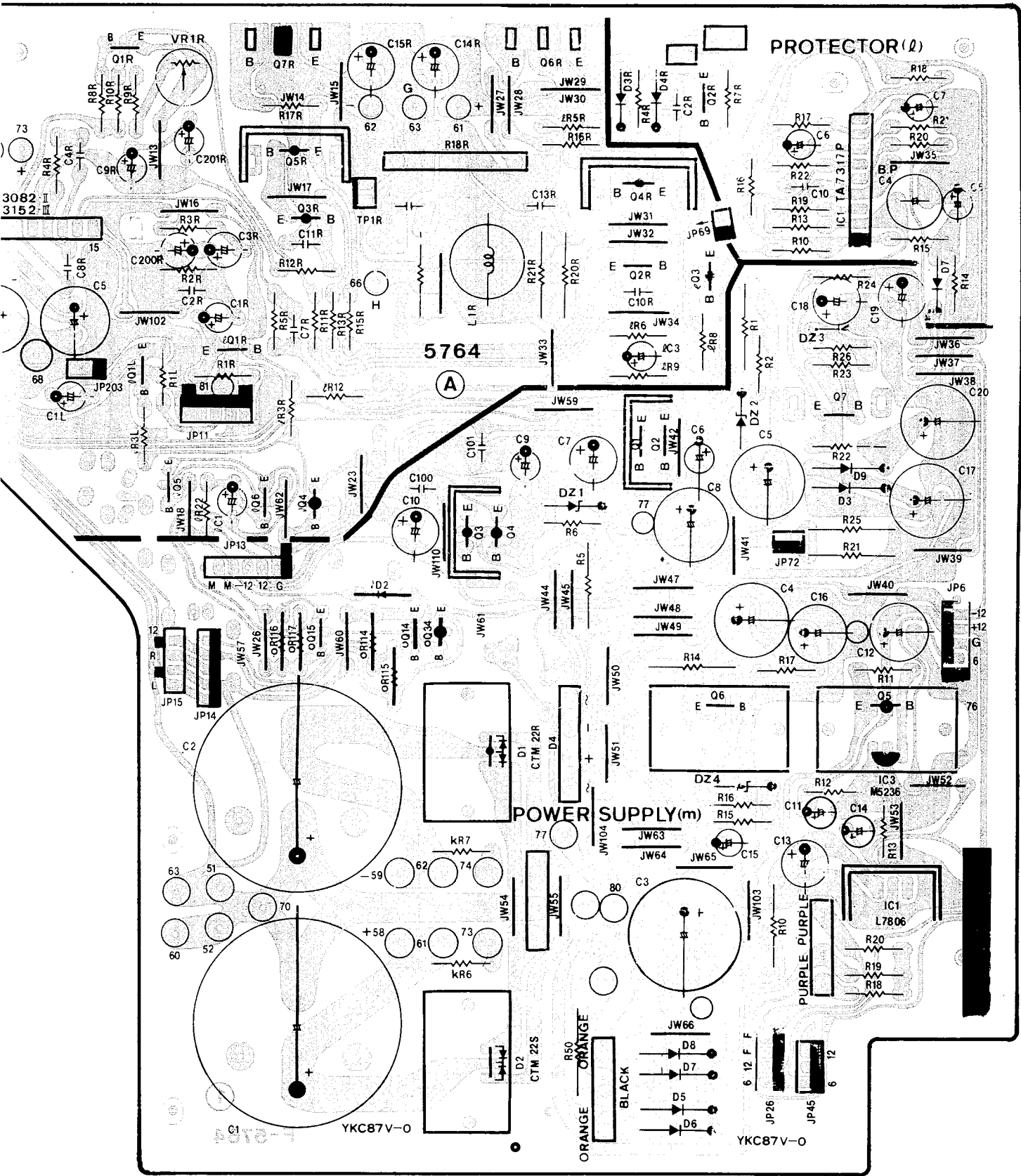
2. Some printed circuit boards are not supplied assembled. To separate these in this service manual, the stock numbers are not indicated for these boards. However, stock numbers for individual parts are indicated.

3. Since some capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors and resistors, which was issued on June 1987.

4. Abbreviations in this service manual are as follows.

•Abbreviations List

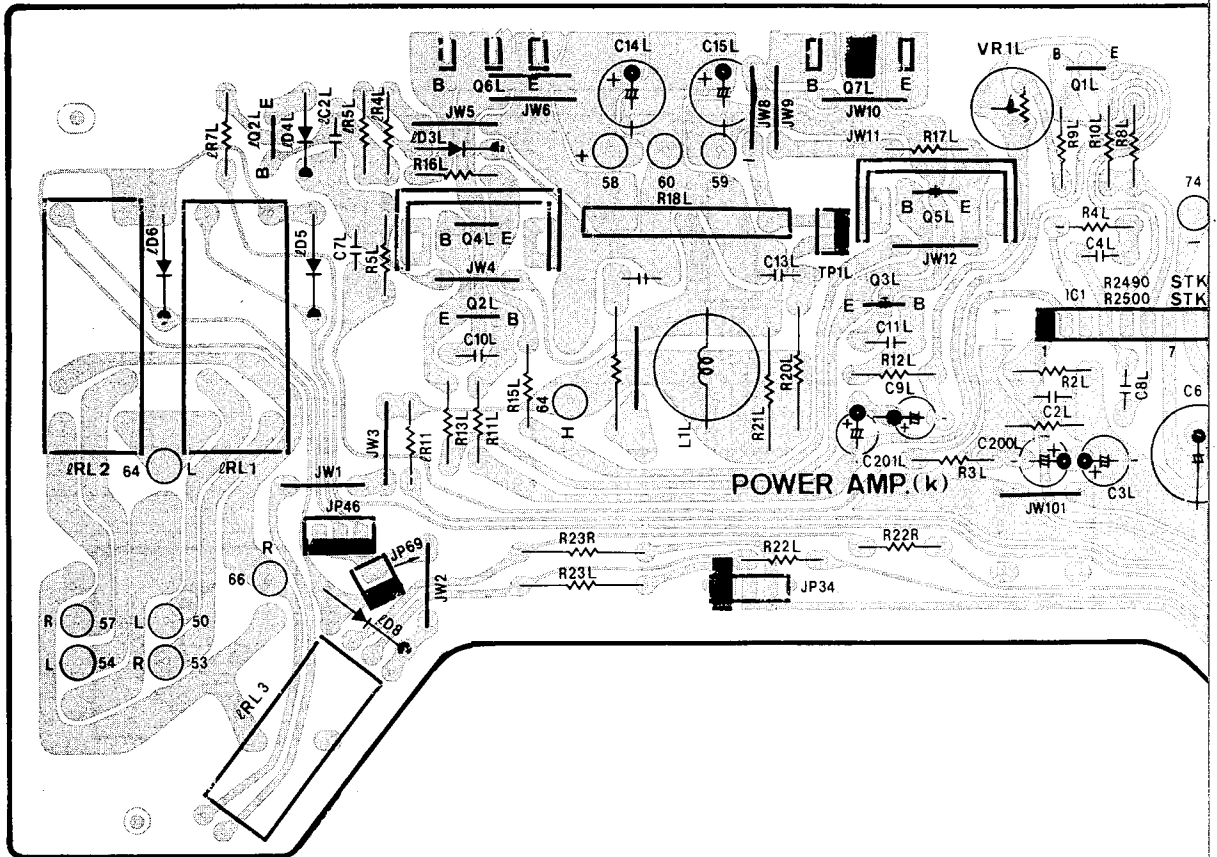
| | |
|--|---|
| C.R. : Carbon Resistor | E.B.L. : Low Leak Bi-Polar Electrolytic Capacitor |
| S.R. : Solid Resistor | Ta.C. : Tantalum Capacitor |
| Ce.R. : Cement Resistor | F.C. : Film Capacitor |
| M.R. : Metal Film Resistor | M.P. : Metalized Paper Capacitor |
| F.R. : Fusing Resistor | P.C. :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



2. PARTS LOCATION ON BOARD

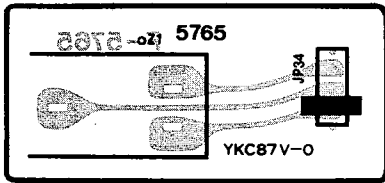
2-1. F-5764 Power Amp. & Power Supply Board

Component Side



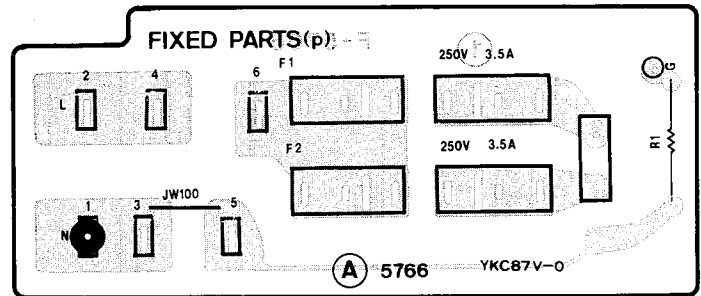
2-2. F-5765 PHONES Jack Board

Component Side



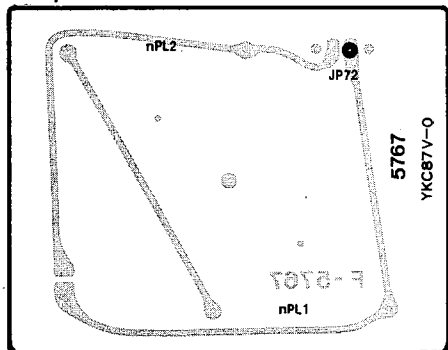
2-3. F-5766 Fuse Board

Component Side



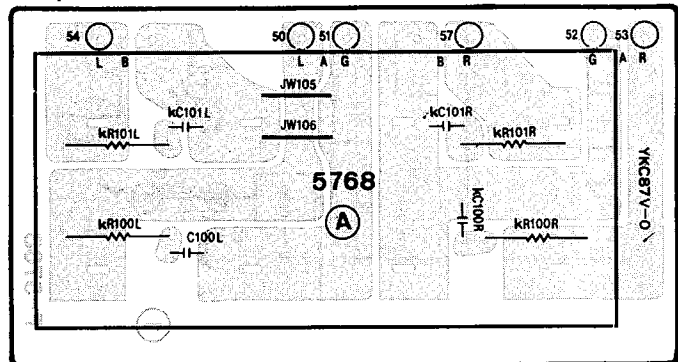
2-4. F-5767 Lamp Board

Component Side

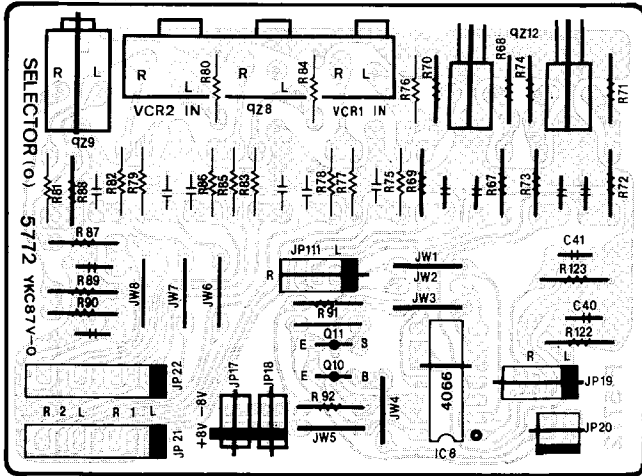


2-5. F-5768 Speaker Terminal Board

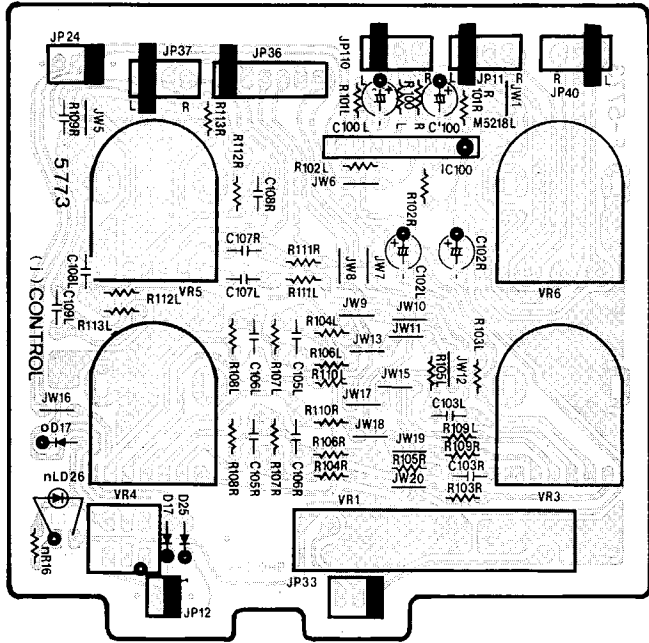
Component Side



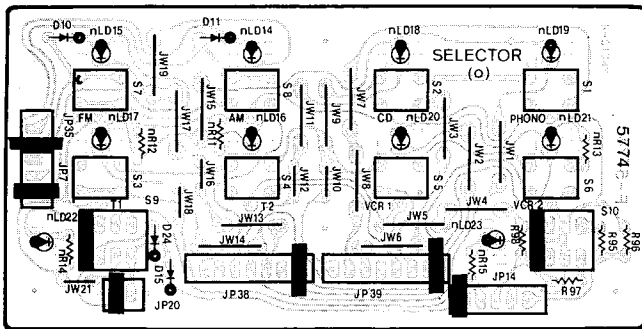
2-10. F-5772 VCR Terminal Board
Component Side



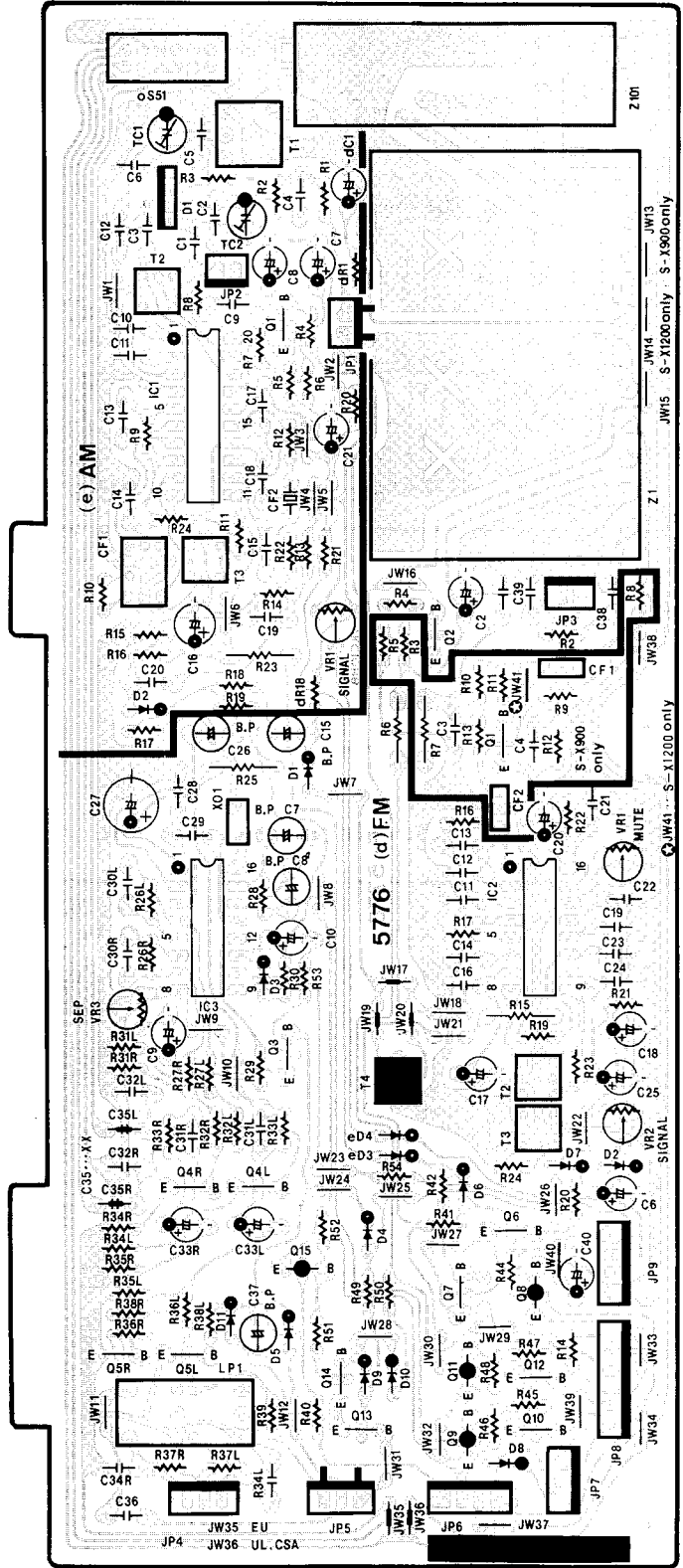
2-11. F-5773 Tone Control Board
Component Side



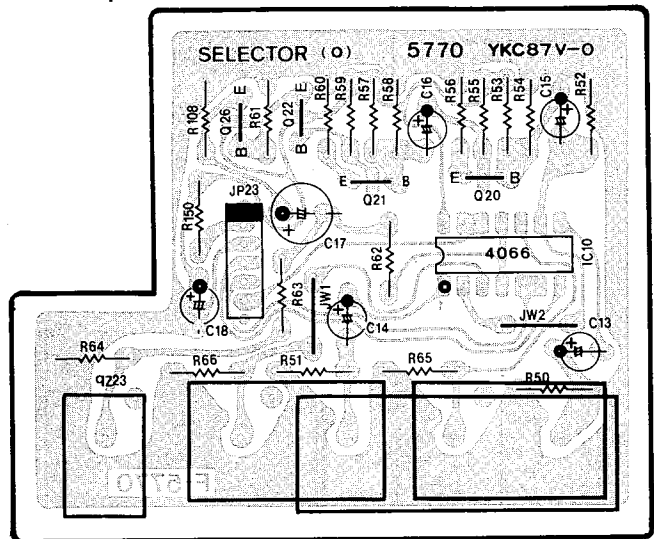
2-12. F-5774 Input Selector SW. Board
Component Side



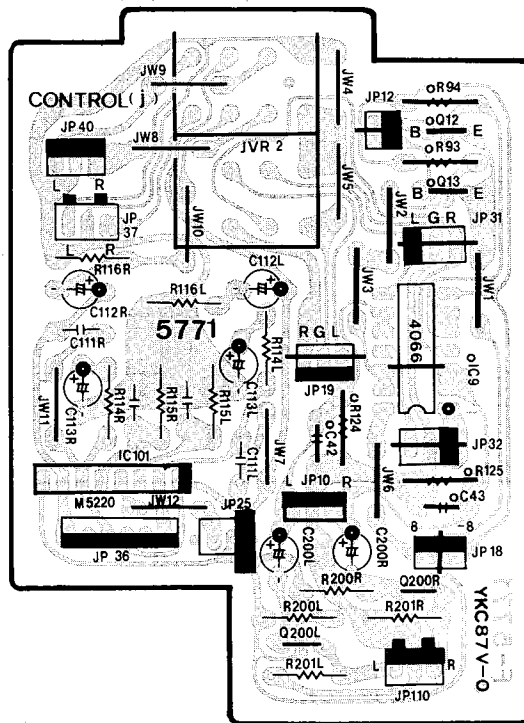
2-13. F-5776 Tuner Board
Component Side



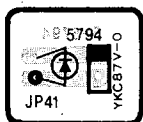
2-6. F-5770 Video Signal Selector Board
Component Side



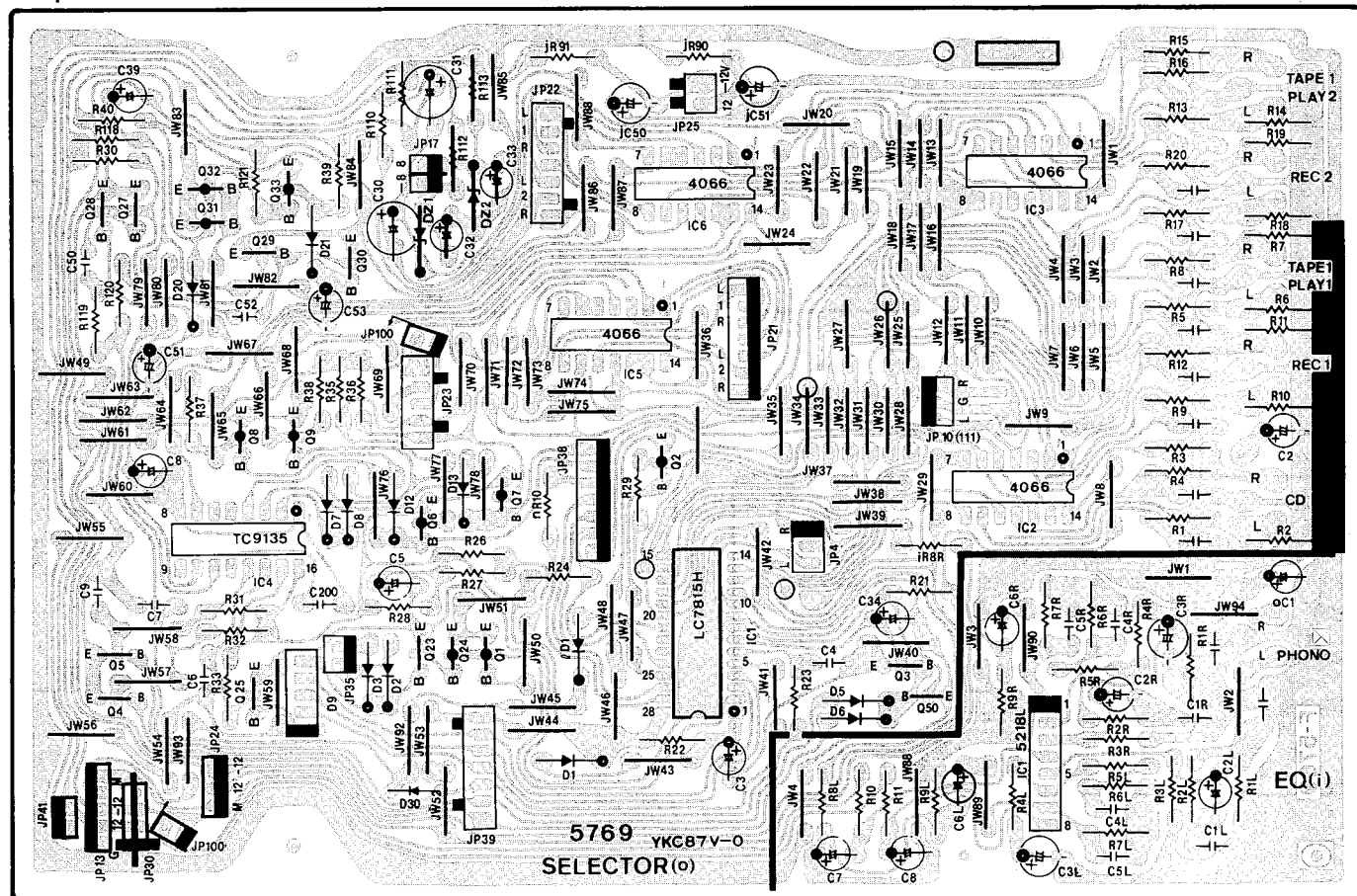
2-7. F-5771 VOLUME Board
Component Side



2-8. F-5794 VOLUME Indicator Board
Component Side



2-9. F-5769 EQ Amp. & Input Selector Board
Component Side



3. ELECTRIC PARTS LIST OF BOARD

3-1. F-5764 Power Amp. & Power Supply Board <Stock No. 01054501 = S-X1200/Stock No. 01052801 = S-X900>

| Parts No. | Stock No. | Description |
|--------------------|-------------|----------------------|
| •Transistor | | |
| kQ1 | 46581701 | 2SC1845 |
| kQ2 | 46728301 | 2SC2705 |
| kQ3 | 46728201 | 2SA1145 |
| kQ4 | 46728901 | 2SC3298 |
| | or 48170001 | 2SC2592 |
| kQ5 | 46728801 | 2SA1306 |
| | or 48169901 | 2SA1112 |
| kQ6 | 48793701 | 2SC3858 (S-X1200) |
| | 48490801 | 2SC3855 (S-X900) |
| kQ7 | 48793601 | 2SA1494 (S-X1200) |
| | 48490701 | 2SA1491 (S-X900) |
| •IC | | |
| kIC1 | 48127000 | STK3152-3 (S-X1200) |
| | 48904300 | STK3082-2A (S-X900) |
| kR18 | 46637800 | 0.33ΩX2 7W W.R. |
| kR20 | 46623100 | 10Ω 2W N.I.R. |
| kR21 | 46622700 | 4.7Ω 2W N.I.R. |
| kR23 | 46624700 | 220Ω 2W N.I.R. |
| kL1 | 42903700 | Peaking Coil |
| kVR1 | 46633700 | 1kΩ (B) S.V.R., Bias |
| •Transistor | | |
| IQ1 | 46540801 | 2SC2878 |
| IQ2 | 46127901 | 2SC2910 |
| IQ3 | 46367001 | 2SA1115 |
| | or 46367201 | 2SA1048 |
| IQ4 | 46719800 | DTA124ES |
| IQ5 | 46719900 | DTC124ES |
| IQ6 | 46719900 | DTC124ES |
| •IC | | |
| IIC1 | 46207600 | TA7317P |
| •Diode | | |
| ID2 | 03117600 | 1S2473T77 (S-X1200) |
| | or 46086000 | 1S1588TP-3 (S-X1200) |
| ID3 | 03117600 | 1S2473T77 |
| | or 46086000 | 1S1588TP-3 |
| ID4 | 03117600 | 1S2473T77 |
| | or 46086000 | 1S1588TP-3 |
| ID5 | 03117700 | 10E-2 |
| ID6 | 03117700 | 10E-2 |
| ID7 | 03117600 | 1S2473T77 |
| | or 46086000 | 1S1588TP-3 |
| ID8 | 03117700 | 10E-2 |
| IC4 | 48104200 | 220μF 6.3V E.B. |
| IRL1 | 48183100 | Relay, Protector |
| IRL2 | 48183100 | Relay, Protector |
| IRL3 | 11504301 | Relay, PHONES Mute |
| •Transistor | | |
| mQ1 | 03083901 | 2SD313HP (S-X1200) |
| | 03086101 | 2SD357 (S-X900) |
| mQ2 | 46367101 | 2SC2603 |
| mQ3 | 48063301 | 2SB507 (S-X1200) |
| | 03034401 | 2SB527 (S-X900) |
| mQ4 | 46367001 | 2SA1115 |
| mQ5 | 48063301 | 2SB507 |
| mQ6 | 03083901 | 2SD313HP |
| mQ7 | 03083901 | 2SD313HP |
| •IC | | |
| mIC1 | 48159500 | L7806 |
| mIC3 | 48129000 | M5236L |

| Parts No. | Stock No. | Description |
|---------------------|-------------|----------------------------|
| •Diode | | |
| mD1 | 48159800 | CTM-22R |
| mD2 | 48159900 | CTM-22S |
| mD3 | 03117700 | 10E-2 |
| mD4 | 03117000 | RB152-LFF |
| mD5 | 03117700 | 10E-2 |
| mD6 | 03117700 | 10E-2 |
| mD7 | 03117700 | 10E-2 |
| mD8 | 03117700 | 10E-2 |
| mD9 | 03117700 | 10E-2 |
| •Zener Diode | | |
| mDZ1 | 46114200 | 05Z13-Y |
| mDZ2 | 46114200 | 05Z13-Y |
| mDZ3 | 46115900 | 05Z24-X |
| | or 46116000 | 05Z24-Y |
| mDZ4 | 46113900 | 05Z12-Y |
| mR1 | 46623100 | 10Ω 2W N.I.R. (S-X1200) |
| | 46623500 | 22Ω 2W N.I.R. (S-X900) |
| mR5 | 46624100 | 68Ω 2W N.I.R. (S-X1200) |
| | 46623500 | 22Ω 2W N.I.R. (S-X900) |
| mR10 | 46623900 | 47Ω 2W N.I.R. |
| mR14 | 46623100 | 10Ω 2W N.I.R. |
| mR21 | 46623500 | 22Ω 2W N.I.R. |
| mR25 | 46623500 | 22Ω 2W N.I.R. |
| mR50 | 46622700 | 4.7Ω 2W N.I.R. |
| mC1 | 48448700 | 10000μF 90V E.C. (S-X1200) |
| | 48338900 | 8200μF 80V E.C. (S-X900) |
| mC2 | 48448700 | 10000μF 90V E.C. (S-X1200) |
| | 48338900 | 8200μF 80V E.C. (S-X900) |
| •Transistor | | |
| oQ14 | 46719900 | DTC124ES (SX-1200) |
| oQ15 | 46719900 | DTC124ES (SX-1200) |
| oQ34 | 46719800 | DTA124ES (SX-1200) |

3-2. F-5765 PHONES Jack Board

| Parts No. | Stock No. | Description |
|-----------|-----------|-------------|
| oZ1 | 46579600 | Jack, |

3-3. F-5766 Fuse Board

| Parts No. | Stock No. | Description |
|-----------|-----------|-------------------------------|
| △ pF1 | 48721800 | Fuse 5.0A for S-X1200 (XX-V) |
| △ | 48722200 | Fuse 10A for S-X1200 (UL-CSA) |
| △ | 48721600 | Fuse 3.5A for S-X900 (XX-V) |
| △ | 48722000 | Fuse 7.0A for S-X900 (UL-CSA) |
| △ | 07185100 | Fuse 2.5A for S-X900 (EU) |
| △ pF2 | 48721800 | Fuse 5.0A for S-X1200 (XX-V) |
| △ | 48721600 | Fuse 3.5A for S-X900 (XX-V) |

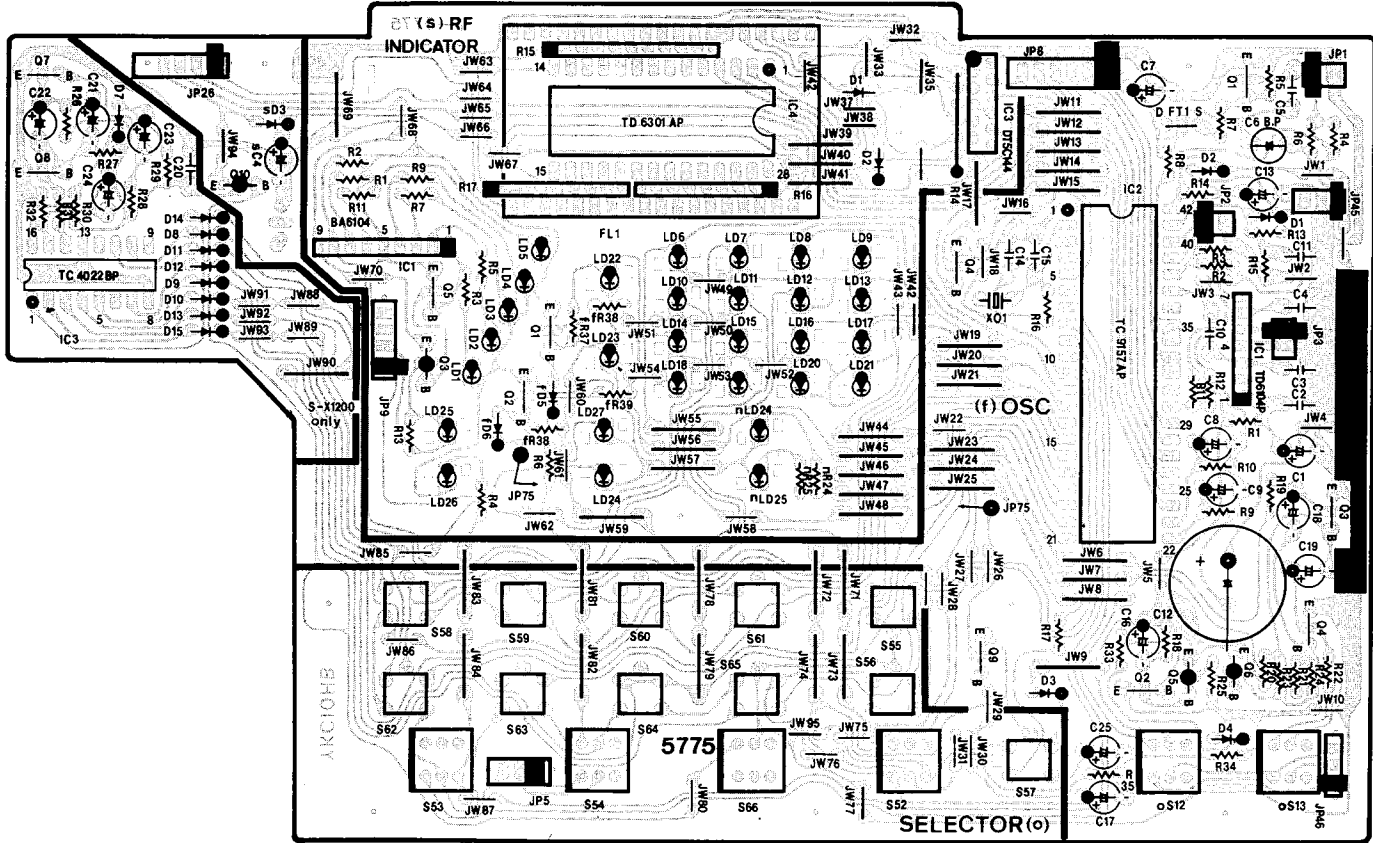
3-4. F-5767 Lamp Board

| Parts No. | Stock No. | Description |
|-----------|-----------|--------------------|
| nPL1 | 48867200 | 8V 0.3A Pilot Lamp |
| nPL2 | 48867200 | 8V 0.3A Pilot Lamp |

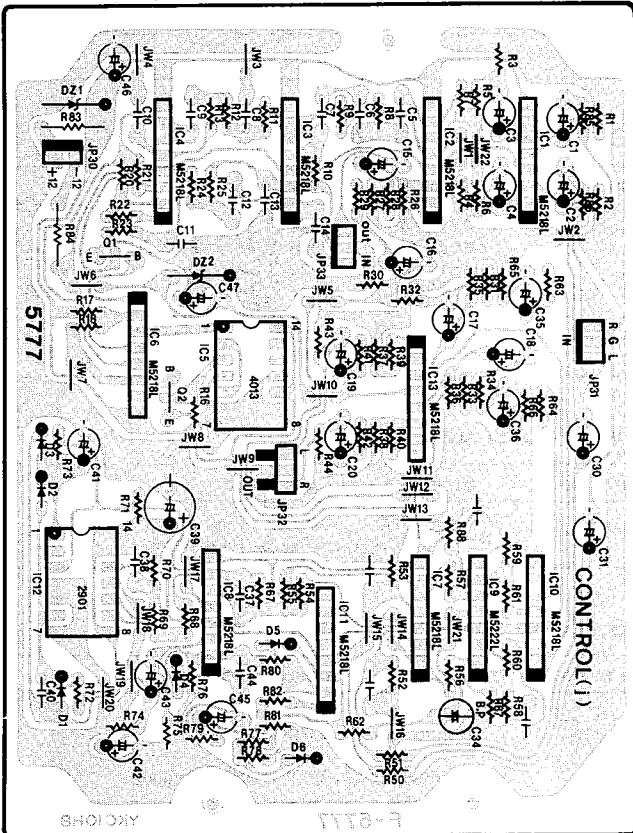
3-5. F-5768 Speaker Terminal Board

| Parts No. | Stock No. | Description |
|-----------|-----------|----------------------|
| △ kR100 | 46622700 | 4.7Ω 2W N.I.R. |
| △ kR101 | 46622700 | 4.7Ω 2W N.I.R. |
| | 48569100 | 8P Terminal, Speaker |

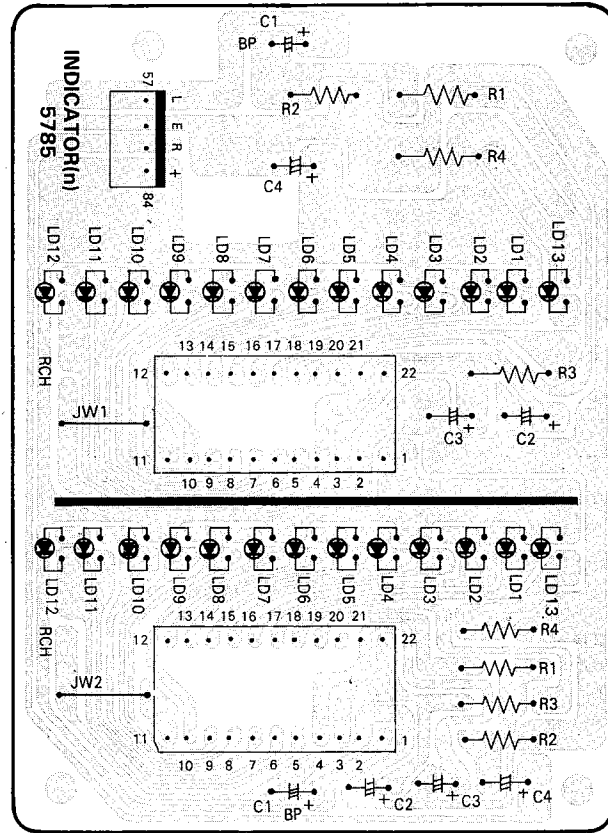
2-14. F-5775 Tuning Control Board
Component Side



2-15. F-5777 Sound Attacker Board
Component Side



2-16. Level Meter Ass'y
Component Side



3-6. F-5769 EQ Amp. & Input Selector Board

<Stock No. 01055001 = S-X1200/Stock No. 01053301 = S-X900>

| Parts No. | Stock No. | Description |
|--------------|-------------------------|-------------------------|
| •IC | | |
| iIC1 | 46078900 | M5218L |
| •Diode | | |
| ID1 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| •Transistor | | |
| oQ1 | 46367001 or 46367201 | 2SA1115 2SA1048 |
| oQ2 | 46719800 | DTA124ES |
| oQ3 | 46719900 | DTC124ES |
| oQ4 | 46719900 | DTC124ES |
| oQ5 | 46719900 | DTC124ES |
| oQ6 | 46719800 | DTA124ES |
| oQ7 | 46719800 | DTA124ES |
| oQ8 | 46719800 | DTA124ES |
| oQ9 | 46719800 | DTA124ES |
| oQ23 | 46719900 | DTC124ES |
| oQ24 | 46719800 | DTA124ES |
| oQ25 | 46719900 | DTC124ES |
| oQ27 | 46719900 | DTC124ES |
| oQ28 | 46719900 | DTC124ES |
| oQ29 | 46719900 | DTC124ES |
| oQ30 | 46719900 | DTC124ES |
| oQ31 | 46719800 | DTA124ES |
| oQ32 | 46719800 | DTA124ES |
| oQ33 | 46719800 | DTA124ES |
| oQ50 | 46719900 | DTC124ES |
| •IC | | |
| oIC1 | 46394800 | LC7815H |
| oIC2 | 46255000 | LC4066BH |
| oIC3 | 46255000 | LC4066BH |
| oIC4 | 48109600 | TC9135P |
| oIC5 | 46255000 | LC4066BH |
| oIC6 | 46255000 | LC4066BH |
| •Diode | | |
| oD1 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD2 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD3 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD5 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD6 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD7 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD8 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD9 | 46222300 | DAN401 |
| oD12 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD13 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD20 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD21 | 03117600 or 46086000 | 1S2473T77 1S1588TP-3 |
| oD30 | 46078000 | 1SS133 |
| •Zener Diode | | |
| oDZ1 | 46112700 | 05Z8.2-Y (S-X1200) |
| oDZ2 | 46112700 | 05Z8.2-Y (S-X1200) |
| qZ6 | 48528400 | 2P Terminal, PHONO-CD |
| qZ7 | 48528200 | 4P Terminal, TAPE 1+2 |

3-7. F-5794 VOLUME Indicator Board

| Parts No. | Stock No. | Description |
|-----------|-----------|-------------|
| nLD27 | 48841100 | SEL3110S |

3-8. F-5770 Video Signal Selector Board

<Stock No. 01055101 = S-X1200/Stock No. 01053401 = S-X900>

| Parts No. | Stock No. | Description |
|-------------|-----------|-------------------------------|
| •Transistor | | |
| oQ20 | 46202901 | 2SC1674 |
| oQ21 | 46202901 | 2SC1674 |
| oQ22 | 46202901 | 2SC1674 |
| oQ26 | 46202901 | 2SC1674 |
| •IC | | |
| oIC10 | 46255000 | LC4066BH |
| qZ10 | 48850800 | 2P Terminal, VCR-1 (S-X1200) |
| qZ11 | 48850800 | 2P Terminal, VCR-2 (S-X1200) |
| qZ23 | 48850900 | 3P Terminal, VCR 1+2 (S-X900) |
| qZ23 | 48850700 | 1P Terminal, MONITOR |

3-9. F-5771 VOLUME Board

<Stock No. 01055201 = S-X1200/Stock No. 01053501 = S-X900>

| Parts No. | Stock No. | Description |
|-------------|-----------|--------------------------------------|
| •Transistor | | |
| jQ200 | 46581701 | 2SC1845 |
| •IC | | |
| jIC101 | 46078900 | M5218L |
| jC200 | 48102000 | 10 μ F 16V E.B. |
| jVR2 | 48864600 | 150k Ω V.R., VOLUME (S-X1200) |
| jVR2 | 48864500 | 150k Ω V.R., VOLUME (S-X900) |
| •Transistor | | |
| oQ12 | 46719800 | DTA124ES (SX-1200) |
| oQ13 | 46719800 | DTA124ES (SX-1200) |
| •IC | | |
| oIC9 | 46421000 | μ PD4066BC (SX-1200) |

3-10. F-5772 VCR Terminal Board

<Stock No. 01055301 = S-X1200>

| Parts No. | Stock No. | Description |
|-------------|-----------|----------------------------------|
| •Transistor | | |
| oQ10 | 46719800 | DTA124ES (SX-1200) |
| oQ11 | 46719800 | DTA124ES (SX-1200) |
| •IC | | |
| oIC8 | 46421000 | μ PD4066BC (SX-1200) |
| qZ8 | 48864700 | 6P Terminal, VCR-1+VCR-2 IN |
| qZ9 | 48866800 | 2P Terminal, VCR-2 OUT (SX-1200) |
| qZ12 | 48528200 | 4P Terminal, PROCESSOR (SX-1200) |

3-11. F-5773 Tone Control Board

<Stock No. 01055401 = S-X1200/Stock No. 01053701 = S-X900>

| Parts No. | Stock No. | Description |
|-----------|-----------|--|
| •IC | | |
| jIC100 | 46078900 | M5218L |
| jVR1 | 48864200 | 100k Ω (B) V.R., SOUND ATTACK level (SX-1200) |
| jVR3 | 48864400 | 100k Ω (B) V.R., TREBLE |
| jVR4 | 48864400 | 100k Ω (B) V.R., BASS |
| jVR5 | 48864300 | 150k Ω (B) V.R., LOUDNESS |
| jVR6 | 48864100 | 250k Ω V.R., BALANCE |
| nLD26 | 46176900 | TLS-123, SOUND ATTACKER (SX-1200) |
| •Diode | | |
| oD17 | 46464100 | 1SS133 (SX-1200) |
| oD25 | 46464100 | 1SS133 (SX-1200) |
| oS11 | 46563500 | Push SW., SOUND ATTACKER (SX-1200) |

3-12. F-5775 Tuning Control Board <Stock No. 01055601 = S-X1200/Stock No. 01053901 = S-X900>

| Parts No. | Stock No. | Description |
|--------------------|-------------|----------------------------|
| •Transistor | | |
| fQ1 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| fQ2 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| fQ3 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| fQ4 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| fQ5 | 46719800 | DTA124ES |
| fQ6 | 46719800 | DTA124ES |
| fQ7 | 46367101 | 2SC2603 (SX-1200) |
| | or 46367301 | 2SC2458 (SX-1200) |
| | or 46391901 | 2SC2785 (SX-1200) |
| fQ8 | 46367101 | 2SC2603 (SX-1200) |
| | or 46367301 | 2SC2458 (SX-1200) |
| | or 46391901 | 2SC2785 (SX-1200) |
| fQ9 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| fQ10 | 46719800 | DTA124ES (SX-1200) |
| •FET | | |
| fFT1 | 46643501 | 2SK163-K2 |
| | or 46643502 | 2SK163-L1 |
| | or 46643601 | 2SK117-Y |
| | or 46643602 | 2SK117-GR |
| •IC | | |
| fIC1 | 07225000 | TD6104P |
| fIC2 | 48128000 | TC9157AP |
| fIC3 | 46530000 | TC4022BP (SX-1200) |
| fX01 | 07237700 | Quartz Crystal NR-18 |
| •Diode | | |
| fD1 ~ fD6 | 46464100 | 1SS133 (SX-1200) |
| fD7 ~ fD15 | 46464100 | 1SS133 (SX-1200) |
| fc6 | 48103500 | 2.2 μ F 50V E.B. |
| fc12 | 48388400 | 4700 μ F 6.3V E.C. |
| nLD24 | 48272600 | SEL2213C, LOCK |
| nLD25 | 48272600 | SEL2213C, STEREO |
| oS12 | 46563500 | Push SW., SPEAKERS-A |
| oS13 | 46563500 | Push SW., SPEAKERS-B |
| oS52 | 46563500 | Push SW., CH-CALL |
| oS53 | 46563500 | Push SW., MANUAL/MONO |
| oS54 | 46563500 | Push SW., HI-BLEND |
| oS55 | 48306900 | Push SW., UP |
| oS56 | 48306900 | Push SW., DOWN |
| oS57 | 48306900 | Push SW., STO |
| oS58 | 48306900 | Push SW., M1 |
| oS59 | 48306900 | Push SW., M2 |
| oS60 | 48306900 | Push SW., M3 |
| oS61 | 48306900 | Push SW., M4 |
| oS62 | 48306900 | Push SW., M5 |
| oS63 | 48306900 | Push SW., M6 |
| oS64 | 48306900 | Push SW., M7 |
| oS65 | 48306900 | Push SW., M8 |
| oS66 | 46563500 | Push SW., P-SCAN (SX-1200) |
| •Transistor | | |
| sQ1 ~ sQ5 | 46719900 | DTC124ES |
| •IC | | |
| sIC1 | 48054400 | BA6104 |
| sIC3 | 48054300 | DT5C144E |
| sIC4 | 46410100 | TD6301AP |

| Parts No. | Stock No. | Description |
|---------------|-----------|----------------------------|
| •Diode | | |
| sD1 | 46464100 | 1SS133 |
| sD2 | 46464100 | 1SS133 |
| sD3 | 46464100 | 1SS133 |
| sFL1 | 48170300 | FL. Display Tube FG78N2 |
| sLD1 ~ sLD5 | 48841200 | SEL3910A, Signal |
| sLD6 | 48272600 | SEL2213C, Ch-1 |
| sLD7 | 48272600 | SEL2213C, Ch-2 |
| sLD8 | 48272600 | SEL2213C, Ch-3 |
| sLD9 | 48272600 | SEL2213C, Ch-4 |
| sLD10 | 48272600 | SEL2213C, Ch-5 |
| sLD11 | 48272600 | SEL2213C, Ch-6 |
| sLD12 | 48272600 | SEL2213C, Ch-7 |
| sLD13 | 48272600 | SEL2213C, Ch-8 |
| sLD14 | 48272600 | SEL2213C, Ch-9 |
| sLD15 | 48272600 | SEL2213C, Ch-10 |
| sLD16 | 48272600 | SEL2213C, Ch-11 |
| sLD17 | 48272600 | SEL2213C, Ch-12 |
| sLD18 | 48272600 | SEL2213C, Ch-13 |
| sLD19 | 48272600 | SEL2213C, Ch-14 |
| sLD20 | 48272600 | SEL2213C, Ch-15 |
| sLD21 | 48272600 | SEL2213C, Ch-16 |
| sLD22 | 48272600 | SEL2213C, 1~8 |
| sLD23 | 48272600 | SEL2213C, 9~16 |
| sLD24 | 48272600 | SEL2213C, LOCK |
| sLD25 | 48272600 | SEL2213C, STEREO |
| sLD26 | 48272600 | SEL2213C, AUTO/STEREO |
| sLD27 | 48272600 | SEL2213C, HI-BLEND |
| sR14 | 46344700 | 1.8k Ω X6 1/8W A.R. |
| sR15 | 46353000 | 10k Ω X10 1/8W A.R. |
| sR16 | 46349300 | 10k Ω X8 1/8W A.R. |
| sR17 | 46349300 | 10k Ω X8 1/8W A.R. |

3-13. F-5774 Input Selector SW. Board

<Stock No. 01055501 = S-X1200/Stock No. 01053801 = S-X900>

| Parts No. | Stock No. | Description |
|---------------|-----------|-------------------------------|
| •LED | | |
| nLD14 | 48841100 | SEL3110S, AM |
| nLD15 | 48841100 | SEL3110S, FM |
| nLD16 | 48841100 | SEL3110S, TAPE-2 |
| nLD17 | 48841100 | SEL3110S, TAPE-1 |
| nLD18 | 48841100 | SEL3110S, CD |
| nLD19 | 48841100 | SEL3110S, PHONO |
| nLD20 | 48841100 | SEL3110S, VCR-1 |
| nLD21 | 48841100 | SEL3110S, VCR-2 |
| nLD22 | 46176900 | TLS-123, PROCESSOR (SX-1200) |
| nLD23 | 46176900 | TLS-123, RANGE |
| •Diode | | |
| oD10 | 46464100 | 1SS133 |
| oD11 | 46464100 | 1SS133 |
| oD15 | 46464100 | 1SS133 (SX-1200) |
| oD24 | 46464100 | 1SS133 (SX-1200) |
| oS1 | 48306900 | Push SW., PHONO |
| oS2 | 48306900 | Push SW., CD |
| oS3 | 48306900 | Push SW., TAPE-1 |
| oS4 | 48306900 | Push SW., TAPE-2 |
| oS5 | 48306900 | Push SW., VCR-1 |
| oS6 | 48306900 | Push SW., VCR-2 |
| oS7 | 48306900 | Push SW., FM |
| oS8 | 48306900 | Push SW., AM |
| oS9 | 46563500 | Push SW., PROCESSOR (SX-1200) |
| oS10 | 46563500 | Push SW., RANGE |

3-14. F-5776 Tuner Board <Stock No. 01055701 = S-X1200/Stock No. 01054001 = S-X900 for XX & SS/Stock No. 01054005 =

<F-5776>

S-X900 for EU>

| Parts No. | Stock No. | Description |
|--------------------|-------------|---|
| dZ1 | 48865600 | FM Frontend Pack (S-X1200) |
| dZ1 | 48569000 | FM Frontend Pack (S-X900) |
| •Transistor | | |
| dQ1 | 46393201 | 2SC2786 (S-X900) |
| dQ2 | 46719900 | DTC124ES |
| dQ3 | 46719900 | DTC124ES |
| dQ4 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| dQ5 | 46540801 | 2SC2878 |
| | or 46604301 | 2SC3327 |
| dQ6 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| dQ7 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| dQ8 | 46719800 | DTA124ES |
| dQ9 | 46367001 | 2SA1115 |
| | or 46367201 | 2SA1048 |
| | or 46392001 | 2SA1175 |
| dQ10 | 46719900 | DTC124ES |
| dQ11 | 46367001 | 2SA1115 |
| | or 46367201 | 2SA1048 |
| | or 46392001 | 2SA1175 |
| dQ12 | 46719900 | DTC124ES |
| dQ13 | 46719900 | DTC124ES |
| dQ14 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| dQ15 | 46367001 | 2SA1115 |
| | or 46367201 | 2SA1048 |
| | or 46392001 | 2SA1175 |
| •IC | | |
| dIC2 | 48347500 | LA1235 |
| dIC3 | 48491000 | LA3410A |
| dXO1 | 48128400 | Ceramic OSC Element KBR-457HS |
| •Diode | | |
| dD1 | 46464100 | 1SS133 |
| dD2 | 03401700 | Varistor MV103 |
| dD3~dD11 | 46464100 | 1SS133 |
| dC7 | 48103200 | 0.47 μ F 50V E.B. |
| dC8 | 48103600 | 3.3 μ F 50V E.B. |
| dC26 | 48103800 | 10 μ F 50V E.B. |
| dC37 | 48103500 | 2.2 μ F 50V E.B. |
| dCF1 | 46202500 | Ceramic Filter SFE10.7MS2(RED) (S-X900 for XX, SS, UL & CSA) |
| | or 46202501 | Ceramic Filter KBF10.7MU-NAG (S-X900 for EU) |
| dCF2 | 46202500 | Ceramic Filter SFE10.7MS2(RED) (S-X900 for XX, SS, UL & CSA) |
| | or 46202501 | Ceramic Filter KBF10.7MU-NAG (S-X900 for EU) |
| dLP1 | 46894900 | Low Pass Filter, TF-10 |
| dT2 | 48347600 | FM IF Coil |
| dT3 | 48347700 | FM IF Coil |
| dVR1 | 46634700 | 47k Ω S.V.R., Mute |
| dVR2 | 46634700 | 47k Ω S.V.R., FM Signal |
| dVR3 | 46635100 | 220k Ω S.V.R., Separation |

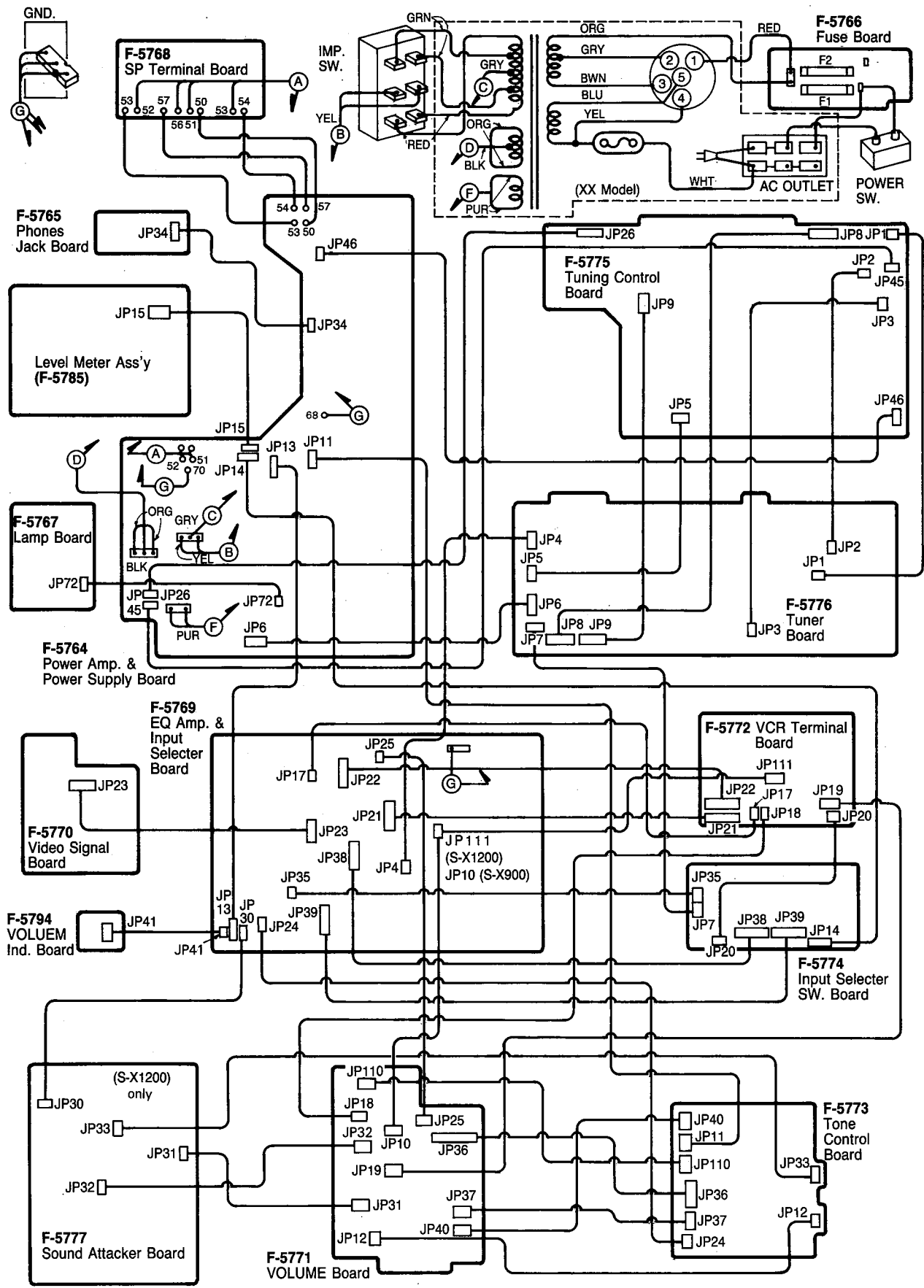
| Parts No. | Stock No. | Description |
|--------------------|-------------|---|
| •Transistor | | |
| eQ1 | 46367101 | 2SC2603 |
| | or 46367301 | 2SC2458 |
| | or 46391901 | 2SC2785 |
| •IC | | |
| eIC1 | 07237200 | LA1245 |
| eD1 | 46146300 | Variable Capacitance Diode, KV1236Z2 |
| •Diode | | |
| eD2 | 46464100 | 1SS133 |
| eD3 | 46464100 | 1SS133 |
| eD4 | 03401700 | Varistor, MV103 |
| eTC1 | 46095600 | Trimmer Capacitor 20pF |
| eTC2 | 46095600 | Trimmer Capacitor 20pF |
| eCF1 | 48069800 | Ceramic Filter CFLZ450A |
| eCF2 | 46578100 | Ceramic Filter BFU450C10N |
| eT1 | 48528900 | AM ANT Coil |
| eT2 | 46394700 | AM OSC Coil |
| eT3 | 46369600 | AM IF Coil |
| eVR1 | 46634700 | 47k Ω S.V.R., AM Signal |
| oS51 | 48529800 | Slide SW., AM Channel Step (XX•SS) |
| qZ14 | 48848600 | Antenna Terminal (XX•SS, UL & CSA) |
| | 48848500 | Antenna Terminal (EU) |

3-15. F-5777 Sound Attacker Board

<Stock No. 01055801 = S-X1200 only>

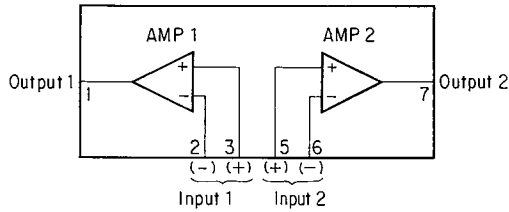
| Parts No. | Stock No. | Description |
|---------------------|-------------|--------------------|
| •Transistor | | |
| jQ1 | 46834300 | DTC144ES |
| jQ2 | 46834300 | DTC144ES |
| •IC | | |
| jIC1~jIC4 | 46078900 | M5218L |
| jIC5 | 48053600 | μ PD4013BC |
| | or 48072400 | BU4013B |
| jIC6~jIC8 | 46078900 | M5218L |
| jIC9 | 48339300 | M5222L |
| jIC10, 11 | 46078900 | M5218L |
| jIC12 | 07205300 | NJM2901N |
| jIC13 | 46078900 | M5218L |
| •Diode | | |
| jD1~jD6 | 46464100 | 1SS133 |
| •Zener Diode | | |
| jDZ1 | 48553600 | MTZ8.2BT-77 |
| | or 48553700 | MTZ8.2CT-77 |
| jDZ2 | 48553600 | MTZ8.2BT-77 |
| | or 48553700 | MTZ8.2CT-77 |
| jC34 | 48103400 | 1 μ F 50V E.B. |

4. OVERALL WIRING DIAGRAM

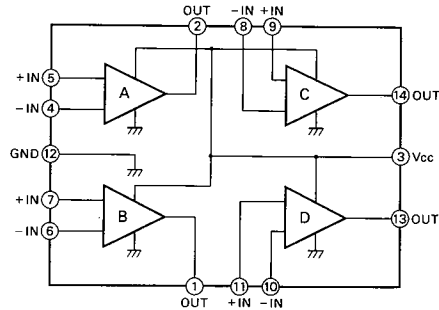


•M5222L ... refer to page 17.

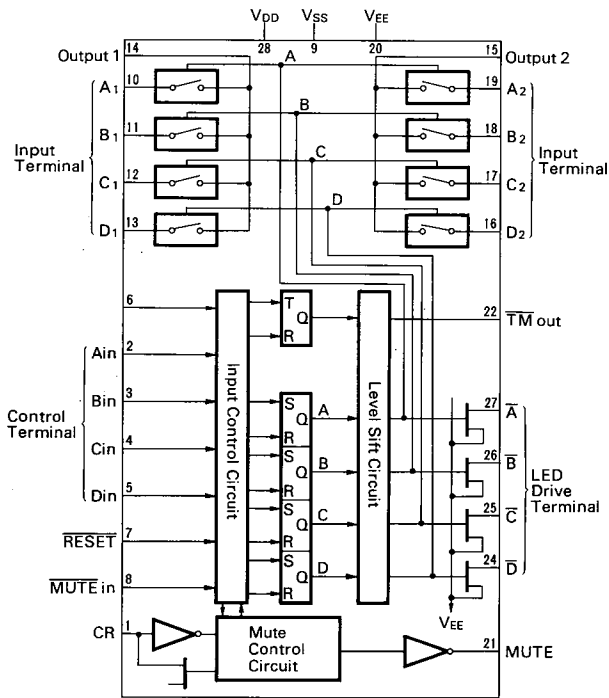
•M5218L (Dual Operation Amp.)



•NJM2901N (Quad Comparator)



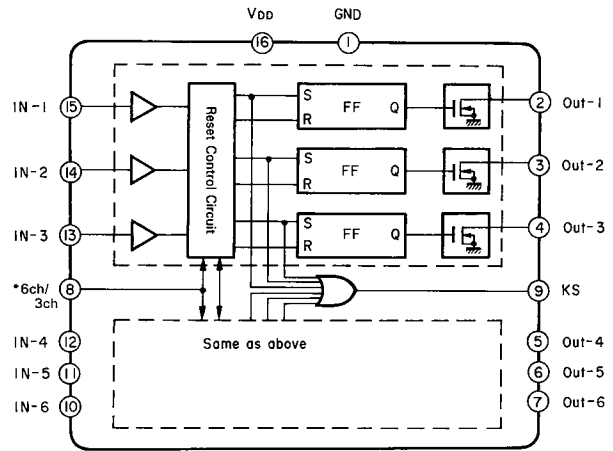
•LC7815H/LC7816 (Analog Function SW.)



| Condition of control input terminals Port (Pin No.) | | | | Connected input terminal to output 1 and 2 terminals | | Connected terminal to LED indicator |
|---|---------|---------|---------|--|----------------|-------------------------------------|
| Ain (2) | Bin (3) | Cin (4) | Din (5) | PORT (Pin No.) | PORT (Pin No.) | PORT (Pin No.) |
| H | * | * | * | A1 (10) | A2 (19) | A (27) |
| L | H | * | * | B1 (11) | B2 (18) | B (28) |
| L | L | H | * | C1 (12) | C2 (17) | C (25) |
| L | L | L | H | D1 (13) | D2 (16) | D (24) |

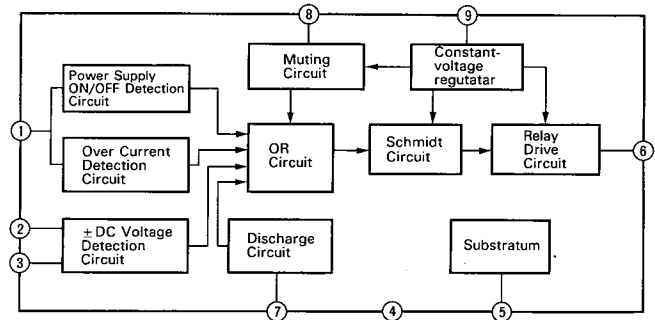
H: H level L: L level *: Don't care

•TC9135P (Function Switch IC)

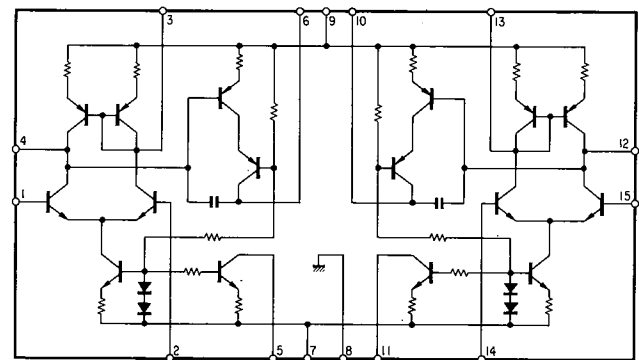


• Terminal for inputting mutual reset control. When this terminal is H level voltage, all Flip-Flop Circuits are mutual reset type. When this terminal is L level voltage, each Flip-Flop circuits are separation mutual reset erouos of IN-1 ~ IN-3 and IN4 ~ IN-6.

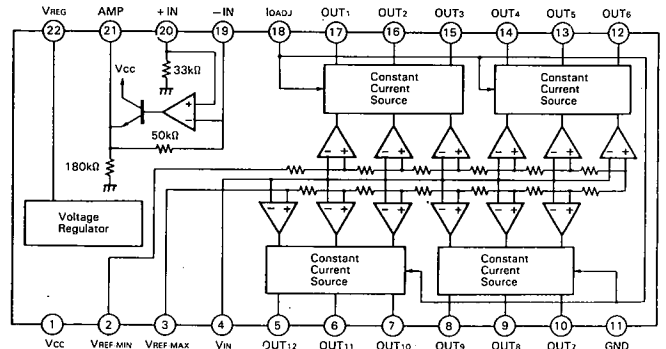
•TA7317P (Protector)



•STK3152-3 (Differential Amp. IC)



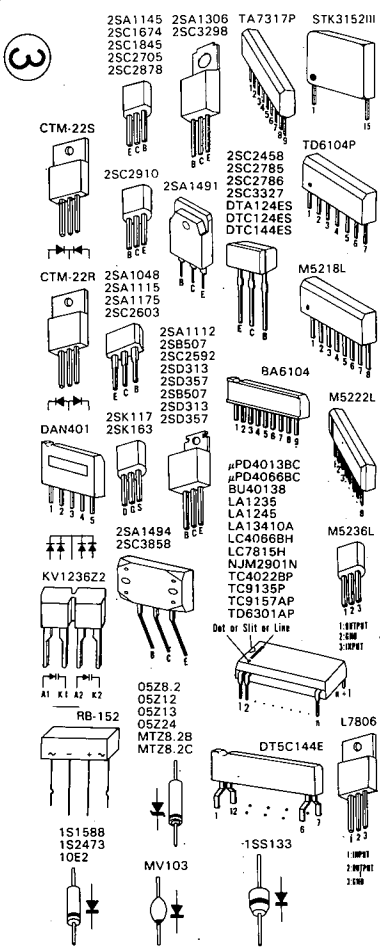
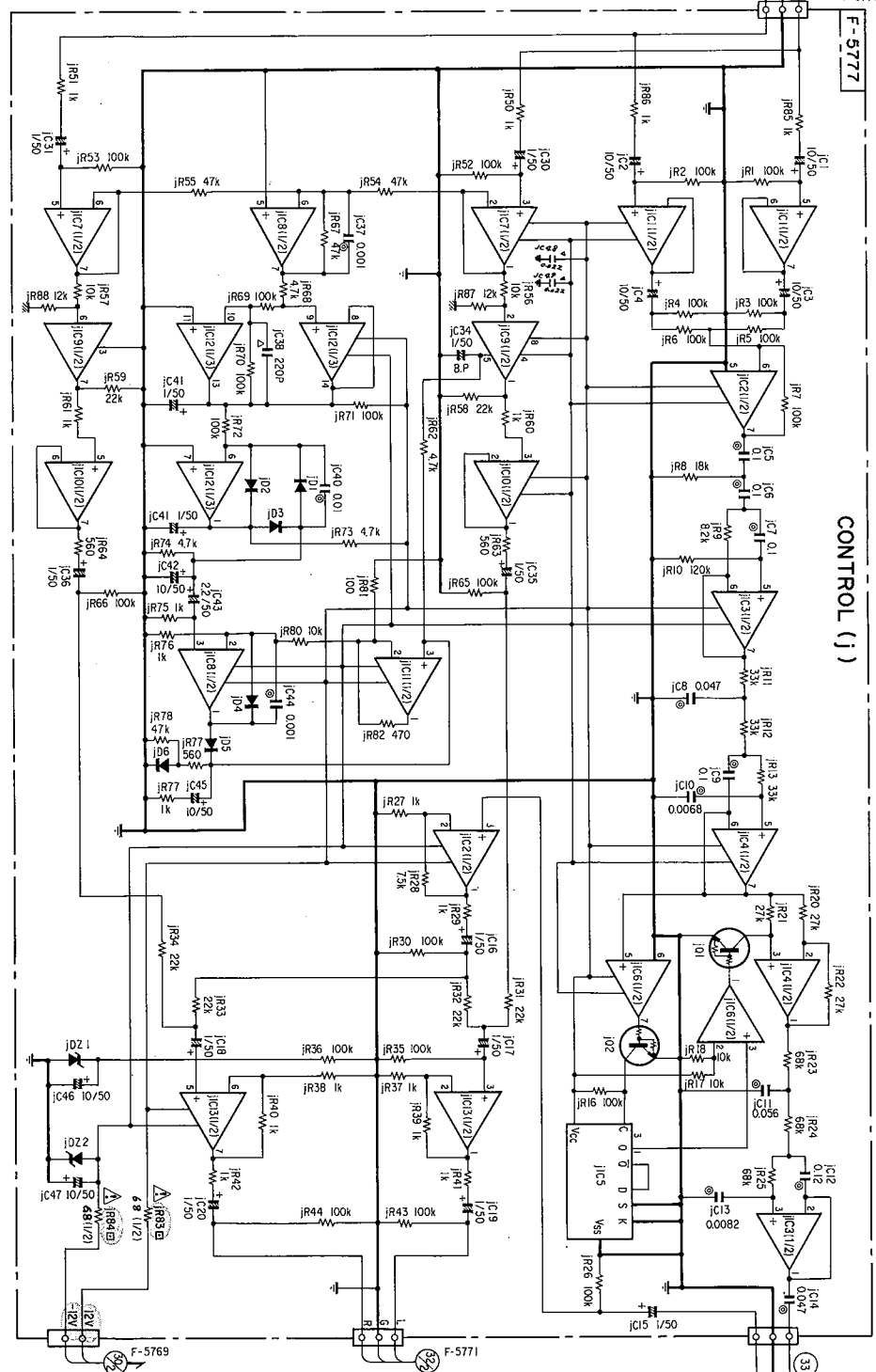
•IR2E33 (LED Driver)



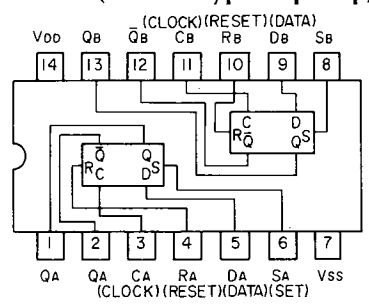
5 6. SCHEMATIC DIAGRAM & INTERIOR BLOCK DIAGRAM OF ICs

5- 6-1. Sound Attacker Section

• 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.



•BU4013B/μPD4013BC (Dual D-type Flip Flop)



| Input | | | | Output | |
|-------|------|-----|-------|------------------|----------------|
| CLOCK | DATA | SET | RESET | Q _{n+1} | Q _n |
| L | L | L | L | L | H |
| H | L | L | L | H | L |
| X | X | L | L | Q _n | Q _n |
| X | X | H | L | H | L |
| X | X | H | H | L | L |

H : High
 L : Low
 X : H or L
 Q_n : Output signal before clock pulse
 Q_{n+1} : Output signal after clock pulse

- IC1,2 DTC144ES
 IC3-4, 6-8, 10, 11, 13 M5218L
 IC5 BU4013
 μPC4013
 IC12 NJM2901
- IC1-6 IS2473D
 IS1588
 IC12,2 05Z8.2(X,Y)
- RESISTORS
 Chip Resistors are 1/8 Watts
 Are in ohms, 1/4 Watts ± 5% Tolerance Unless
 Otherwise Noted. K: kΩ, M: MΩ
- CAPACITORS
 J: ±5% G: ±2% F: 1%
 Each D.C Voltage shows the nominal value in volts
 at no input signal
 Electrolytic Capacitor: Capacitance (μF) / Volt (V)

- SYMBOL
 △ Ceramic Capacitor
 □ Film Capacitor
 ⊖ Non-Inflammable Resistor
 ⊞ Polystyrene
 ⊙ Chip Component (Cylindrical type)
 ⊞ Chip Component
 ⚠ is Safety Part.
 Use only replacement parts recommended by the manufacturer.

A

B

C

D

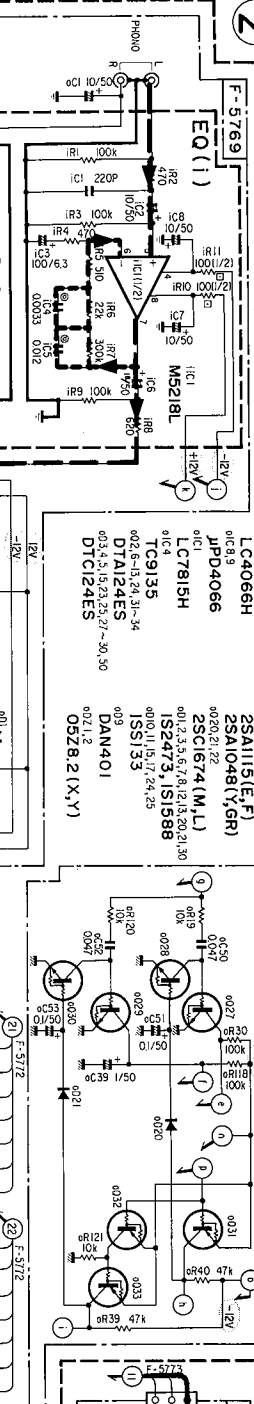
E

F

G

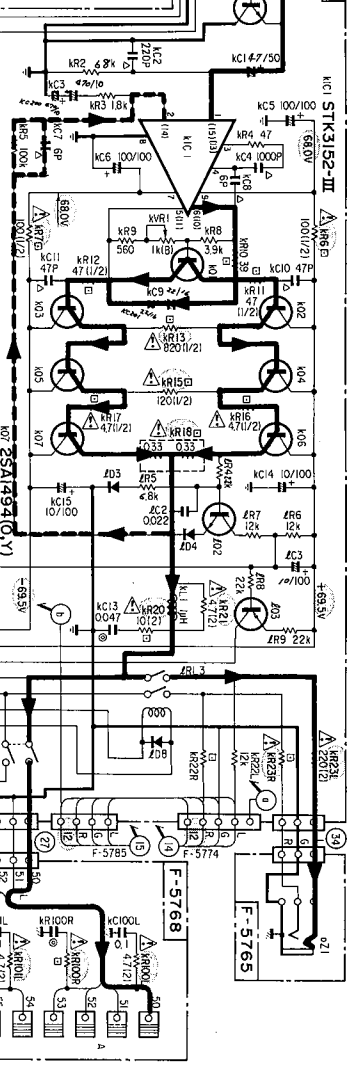
H

SELECTOR (o)

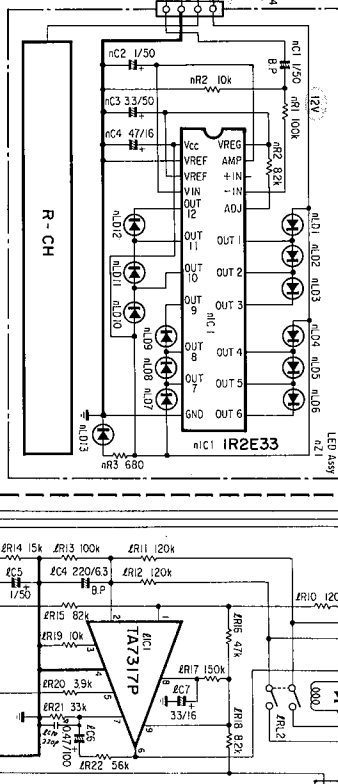


- 017.2,5,6,7,10 L C4066H
- 018.8 JPD4066
- 019.1 L C7815H
- 020.1 TC9135
- 022.5,24,31,34 D1A124ES
- 023.1,15,17,24,25 D1C124ES
- 027.1 DAN401
- 028.2 (X,Y)

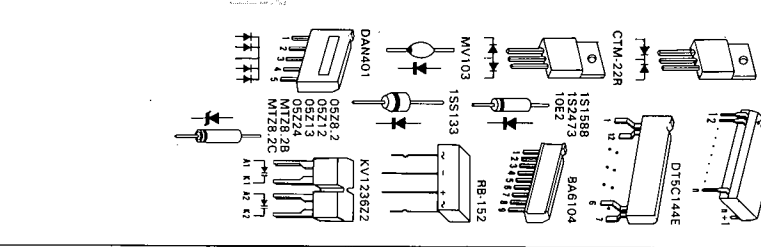
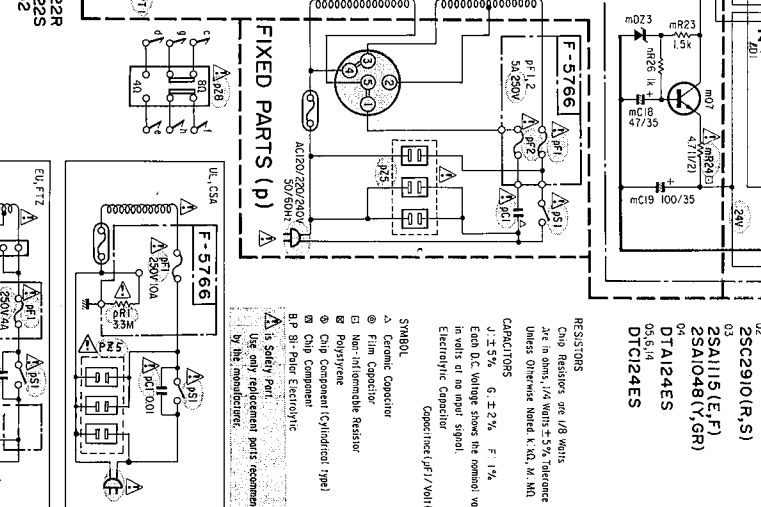
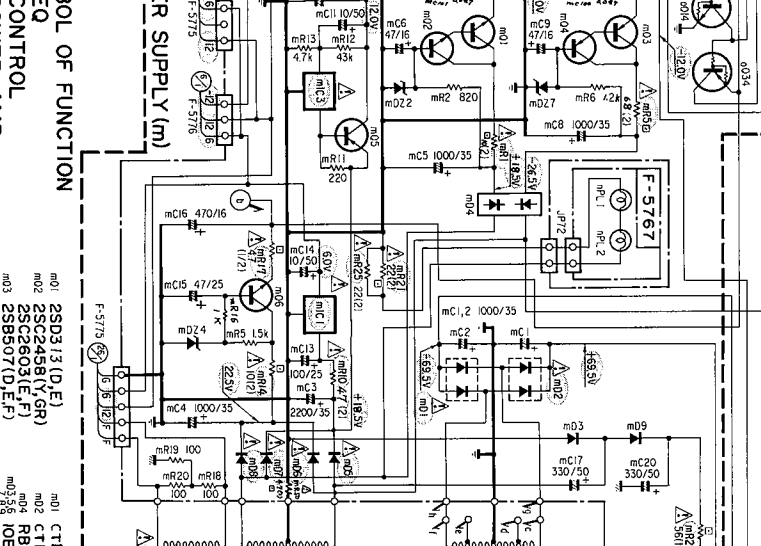
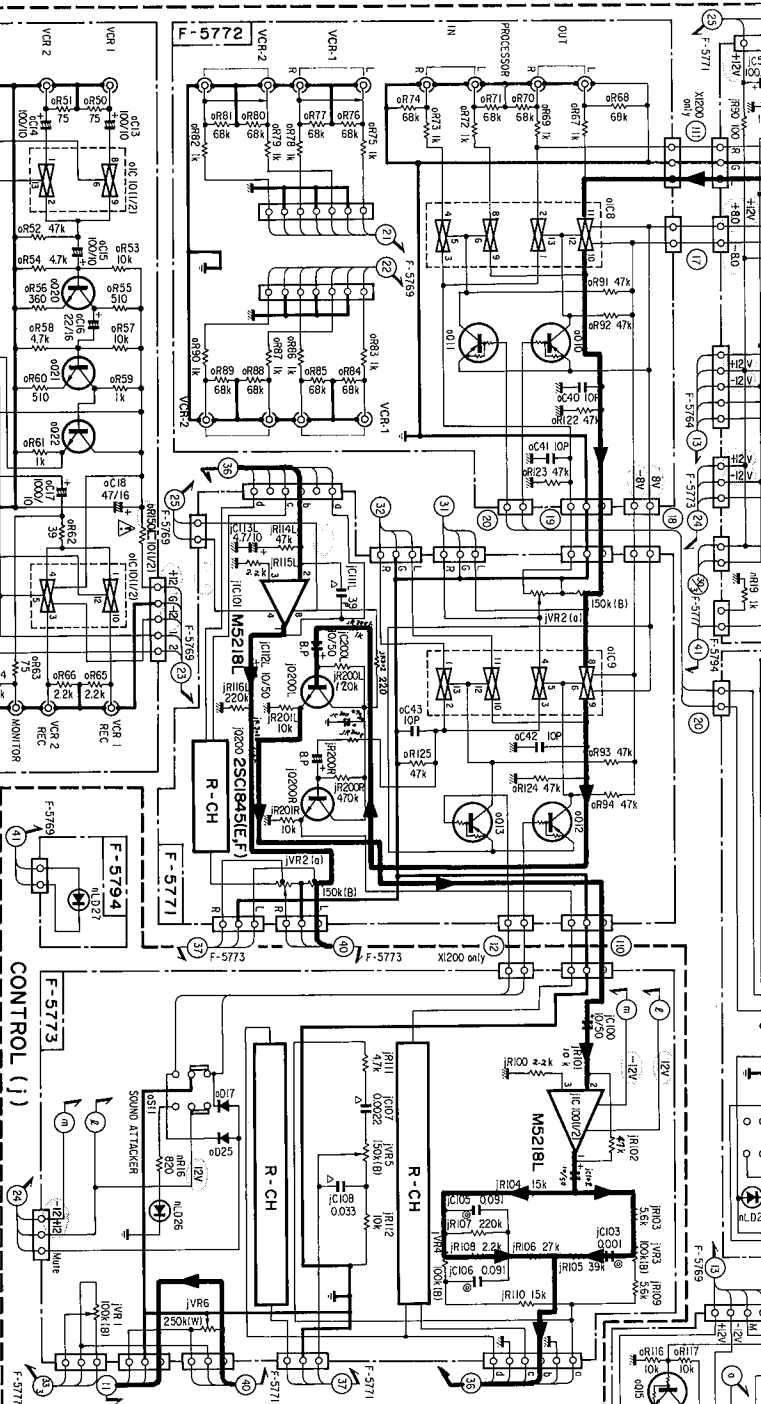
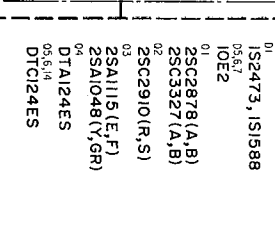
POWER AMP (k)



AUDIO INDICATOR (n)



PROTECTOR (l)



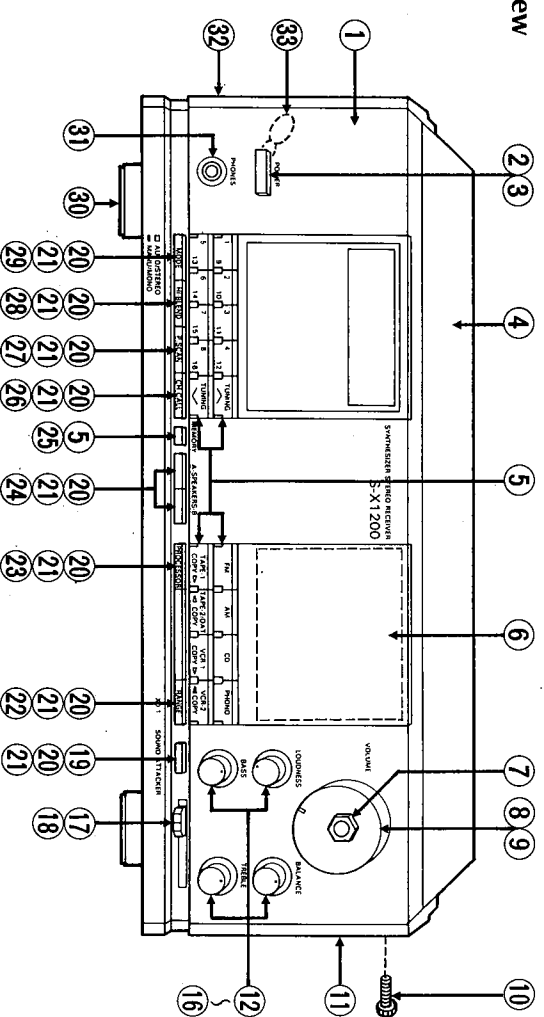
CD & Audio Signal Line
PHONO Line
N.F.B. Line

- SYMBOL OF FUNCTION
- (i) EQ
 - (j) CONTROL
 - (k) POWER AMP
 - (l) PROTECTOR
 - (m) POWER SUPPLY
 - (n) AUDIO INDICATOR
 - (o) SELECTOR
 - (p) FIXED PARTS

* 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.

7. OTHER PARTS

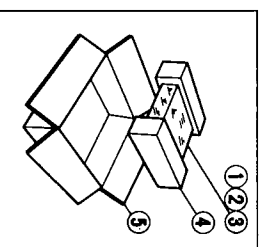
7-1. Front View



| Parts No. | Stock No. | Description | Parts No. | Stock No. | Description |
|-----------|-----------|--|-----------|-----------|--|
| 1 | 27414610 | Front Panel Ass'y (S-X1200) | 18 | 48864200 | 100K Ω V.R., Sound Attacker Level (S-X1200) |
| 2 | 27414510 | Front Panel Ass'y (S-X900) | 19 | 27405700 | Knob, Sound Attacker (S-X1200) |
| 3 | 27428500 | Knob, POWER | 20 | 46563500 | Push SW., Sound Attacker (S-X1200) |
| 4 | 46612900 | Push SW., POWER | 21 | 27492300 | MEMORY-Input selector-TUNING |
| 5 | 27408100 | Bonnet | 22 | 27405600 | Knob, RANGE (S-X1200) |
| 6 | 48306900 | Tact SW., Pre set station-MEMORY-Input selector-TUNING | 23 | 27405500 | Knob, PROCESSOR (S-X1200) |
| 6-1 | 48865200 | Level Meter Ass'y | 24 | 27403700 | Knob, SPEAKERS |
| 7 | 48841400 | LED SEL3213C, $-\infty \sim +3$ | 25 | 27403800 | Knob, MEMORY |
| 8 | 48913200 | Nut, VOLUME | 26 | 27403600 | Knob, CH CALL |
| 9 | 27406100 | Knob, VOLUME | 27 | 27403500 | Knob, P SCAN |
| 8 | 48864600 | 150K Ω V.R., VOLUME (S-X1200) | 28 | 27403400 | Knob, HI-BLEND |
| 9 | 48864500 | 150K Ω V.R., VOLUME (S-X900) | 29 | 27403300 | Knob, MODE |
| 10 | 48836500 | Special Screw, M5x14 | 30 | 27273500 | Leg |
| 11 | 27408600 | Right Side Panel | 31 | 46579600 | Jack, PHONES |
| 12 | 27406200 | LOUDNESS | 32 | 27408500 | Left Side Panel |
| 13 | 48864300 | 150K Ω V.R., LOUDNESS (S-X1200) | 33 | 46425800 | 0.01 μ F 400V C.C. |
| 14 | 48864100 | 250K Ω V.R., BALANCE | | | |
| 15 | 48864400 | 100K Ω V.R., BASS-TREBLE | | | |
| 16 | 27452100 | Spacer A, TONE-BALANCE-LOUDNESS | | | |
| 17 | 27406300 | Knob, Sounder Attacker Level (S-X1200) | | | |

8. PACKING LIST

| Parts No. | Stock No. | Description |
|-----------|-----------|-----------------------|
| 1 | 47858400 | Vinyl Bag |
| 2 | — | Corrugated Board |
| 3 | — | Polyethylene Sheet |
| 4 | 27481600 | Styrofoam Packing |
| 5 | 27497100 | Carton Case (S-X900) |
| | 27497200 | Carton Case (S-X1200) |



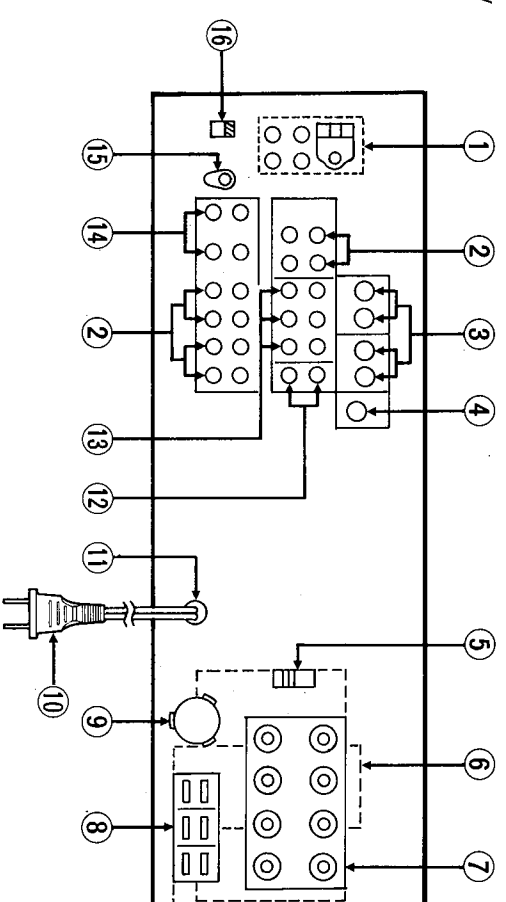
9. ACCESSORY LIST

| Stock No. | Description |
|-----------|--|
| 46051700 | FM Antenna |
| 46186100 | AM Loop Antenna |
| 07563000 | Antenna Holder |
| 48489800 | Matching Transformer for S-X900 (EU) |
| 49029400 | S-X900 Operating Instruction (*E,F,S) |
| 49029500 | S-X900 Operating Instruction (*G,I-Sw) |
| 49029300 | S-X1200 Operating Instruction |

*Note

E·F·S: English·French and Spanish Version
G·I·Sw: German·Italian and Swedish Version

7-2. Rear View



| Parts No. | Stock No. | Description | Parts No. | Stock No. | Description |
|-----------|-----------|--|-----------|-----------|---|
| 1 | 48848600 | Antenna Terminal | 7 | 48569100 | 8P Terminal, SPEAKERS |
| 2 | 48528200 | 4P Terminal, PROCESSER (S-X1200) | 8 | 46730400 | AC OUTLET (XX-SS) |
| 3 | 48850800 | 2P Terminal, TAPE-1,2 (S-X1200) | 9 | 48184700 | AC OUTLET-polarized (XX-UL-CAS) |
| 4 | 48850900 | VCR 2 (S-X1200) | 10 | 46161000 | AC OUTLET (EU) |
| 5 | 48850700 | 3P Terminal, VCR (S-X900) | 11 | 48175200 | Plug-A (XX-SS) |
| 6 | 46739400 | 1P Terminal, MONITOR OUT | 12 | 07204700 | Slide SW., (EU) |
| | 46736600 | Slide SW., SPEAKER IMPEDANCE SELECTOR (XX-EU-SS) | 13 | 38004900 | Power Supply Cord (XX) |
| | 15030109 | Slide SW., SPEAKER IMPEDANCE SELECTOR (UL-CSA) | 14 | 48188100 | Power Supply Cord-polarized (XX-UL-CAS) |
| | 15030102 | Power Transformer for S-X1200 (XX) | 15 | 38004500 | Power Supply Cord (EU) |
| | 15030009 | Power Transformer for S-X900 (UL-CSA) | 16 | 48837700 | Power Supply Cord (SS) |
| | 15030002 | Power Transformer for S-X900 (UL-CSA) | | 39104900 | Strain Relief (XX-UL-CAS) |
| | 15030005 | Power Transformer for S-X900 (EU) | | 48913500 | Strain Relief (EU-SS) |
| | | | | 48868800 | 2P Terminal, VCR-2 OUT (S-X1200) |
| | | | | 48864700 | 6P Terminal, VCR-1 IN/OUT-VCR-2 IN |
| | | | | 48528400 | 2P Terminal, PHONO-CD |
| | | | | 48567600 | Ground Terminal |
| | | | | 48529800 | Slide SW., Channel Step |



SANSUI ELECTRIC CO., LTD.:

SANSUI ELECTRONICS CORPORATION:

SANSUI ELECTRONICS (UK) LTD.:
SANSUI ELECTRONICS G.M.B.H.:

山水電気株式会社 HE国内営業部 山一七寸推進部 東京都三鷹市下連雀8-9-16(〒181) 電話0422-46-8131

(ISM2-17)

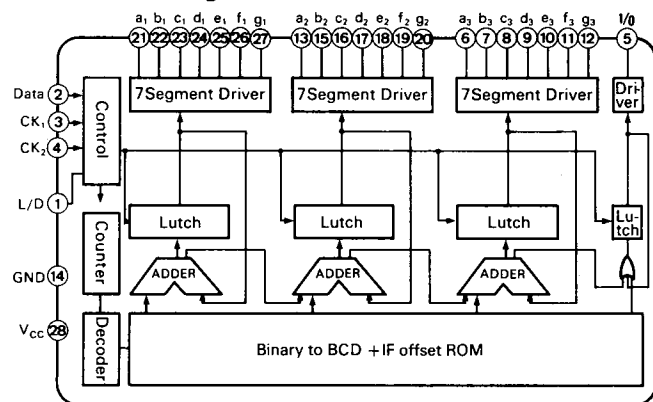
Printed in Japan (1987.07.M) <Stock No. 36533400>

•Terminal Function of LSI-TC9157AP (PLL & Control)

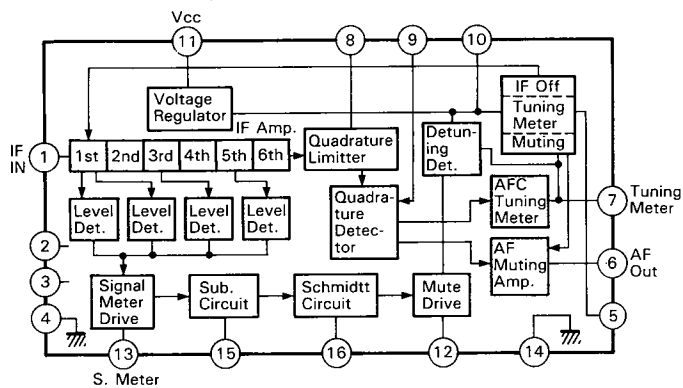
| Pin No. | Pin Name | Functions |
|----------------------|-------------------------------|--|
| 2,3 | X _T X _T | Terminals to connect a quartz oscillator for generating a reference frequency. |
| 4 5 6 | FM MW LW | Terminals to input a signal for switching FM/MW/LW band. |
| 7 8 | MANU- AL AUTO | Terminal to input a signal for switching the manual operation to automatic search operation or vice versa in the UP/DOWN tuning mode. "H": Automatic, "L": Manual |
| 9 10 | UP DOWN | Terminals to input a signal from the tuning key. *In manual operation: When the key is kept depressed for 0.3 sec or more in one-step/one-push step feeding, the operation changes to fast forwarding; when the key is released, the operation stops at the next stop. In this case, even if there is a station on the way, the station is neglected. *In automatic search operation: When the key is depressed once, the automatic search operation starts and stops automatically after having selected the desired station. |
| 11 | STO | Terminal to input a signal for storing data in the preset memory unit. Input/output terminal in which a LED driver is provided. *When depressing the STO key, the STO lamp comes on. Next, when any desired memory No. key is depressed, the data on receiving frequency is written into the memory unit and the STO lamp goes off. *When the STO key is depressed and the memory No. key is not depressed, the frequency data is released automatically. |
| 12 17 | M1 M6 | Terminals to input a signal for designating memory address. Input/output terminals in which a LED driver is provided. *Terminals M1 to M6 designate the addresses of FM memory unit in FM receiving and the addresses of AM memory unit in AM receiving. *When depressing the STO key and any desired station key of M1 to M6, the data is written into the memory unit. *When depressing any desired station key of M1 to M6, the data is read out. |
| 22 | OSC 2 | Terminal to connect a condenser and resistor for the oscillator for determining the speed of AM automatic search operation. |
| 23 | OSC 1 | Terminal to connect a condenser and resistor for the oscillator for determining the speed of FM automatic search operation. |
| 24 25 26 27 | O/5 CK2 CK1 DATA | Terminals to output the data for displaying the received frequency digitally and a timing signal. The data fed to the driver TD6301P for displaying a static frequency and the timing signal are outputted once only when the frequency is updated in such case as when the power supply is tuned on, the UP/DOWN key is depressed, the automatic scanning operation is made, the data are read out of the memory unit, or FM/AM is switched. In the ordinary receiving state, this terminal is fixed to a "L" level. *O/5: For displaying 50 kHz during FM receiving in Europe. *Data: Binary coded frequency data and receiving band. *CK-1, CK-2: Initialize and transfer clock signals. |
| 28 | MUTE | Terminal to output the muting signal. The terminal is kept in "L" level in ordinary state, and in "H" level in muting. |

| Pin No. | Pin Name | Functions | | | | | | | | | | | | | | | |
|----------------|----------------|--|----------------|----------------|------|---|---|-------|---|---|--------|---|---|------------------|---|---|-------------------|
| 29 30 | E2 E1 | Terminals to input a signal for selecting destinations of Japan, USA, and Europe. *Inputs of terminals E1 and E2 are read and latched in INH=L state and in FM/AM switching. <table border="1" style="margin-left: 20px;"> <tr> <td>E₁</td> <td>E₂</td> <td>Mode</td> </tr> <tr> <td>0</td> <td>0</td> <td>Japan</td> </tr> <tr> <td>1</td> <td>0</td> <td>Europe</td> </tr> <tr> <td>0</td> <td>1</td> <td>USA (MW 9kHz)</td> </tr> <tr> <td>1</td> <td>1</td> <td>USA (MW 10kHz)</td> </tr> </table> | E ₁ | E ₂ | Mode | 0 | 0 | Japan | 1 | 0 | Europe | 0 | 1 | USA (MW 9kHz) | 1 | 1 | USA (MW 10kHz) |
| E ₁ | E ₂ | Mode | | | | | | | | | | | | | | | |
| 0 | 0 | Japan | | | | | | | | | | | | | | | |
| 1 | 0 | Europe | | | | | | | | | | | | | | | |
| 0 | 1 | USA (MW 9kHz) | | | | | | | | | | | | | | | |
| 1 | 1 | USA (MW 10kHz) | | | | | | | | | | | | | | | |
| 31 | STOP 3 | When a IF450 kHz signal is applied to this terminal during automatic search operation, the scanning operation stops. | | | | | | | | | | | | | | | |
| 32 | STOP 2 | Terminal to input a signal for performing the automatic search stop. When a "H" level signal is applied to STOP 1 and this terminal during automatic search operation, the scanning operation stops. | | | | | | | | | | | | | | | |
| 33 | STOP 1 | Terminal to input a signal for slowing the speed of scanning operation. When a "H" level signal is applied to this terminal during automatic search operation, the speed of scanning operation halves. | | | | | | | | | | | | | | | |
| 34 35 | Do-2 Do-1 | Terminals to output a signal from a phase comparator. These terminals can be used for FM and AM, separately, since the same signal is outputted from the terminals Do-1 and Do-2 at the same time. | | | | | | | | | | | | | | | |
| 36 | TEST | Terminal to input a signal of test mode. Test mode in "H" level. | | | | | | | | | | | | | | | |
| 37 | FMIN | Terminal to input a signal from the FM programmable counter. An amplifier is provided in the input. | | | | | | | | | | | | | | | |
| 38 | PSC | Terminal to output a signal for controlling the Prescaler IC of TD6104P. | | | | | | | | | | | | | | | |
| 39 | AMIN | Terminal to input a signal from the AM programmable counter. An amplifier is provided in the input. | | | | | | | | | | | | | | | |
| 40 | INH | Terminal to input a signal of inhibit. Ordinary operation in "H" level; inhibit operation in "L" level. | | | | | | | | | | | | | | | |
| 41 | INT | Terminal to input an initialize signal. This terminal changes to H level in the ordinary operation and to L level in the initialize operation. | | | | | | | | | | | | | | | |
| 42 1 | VDD VND | Power supply terminals. 5V ± 0.5V. | | | | | | | | | | | | | | | |

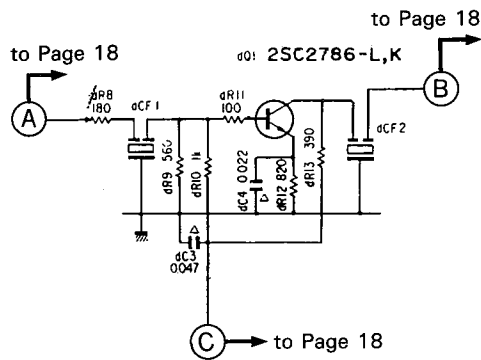
•TD6301P (7-Segment Decoder)



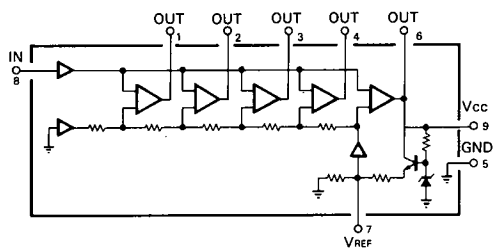
•LA1235 (IF & Quadrature Detector)



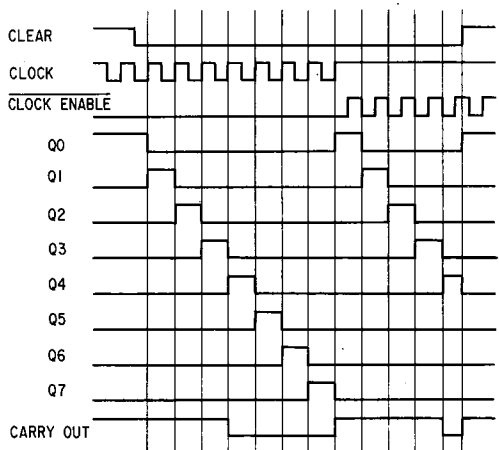
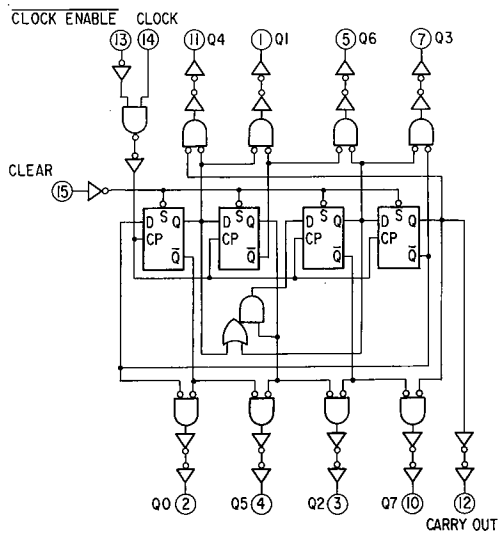
•FM IF Amp. of S-X900



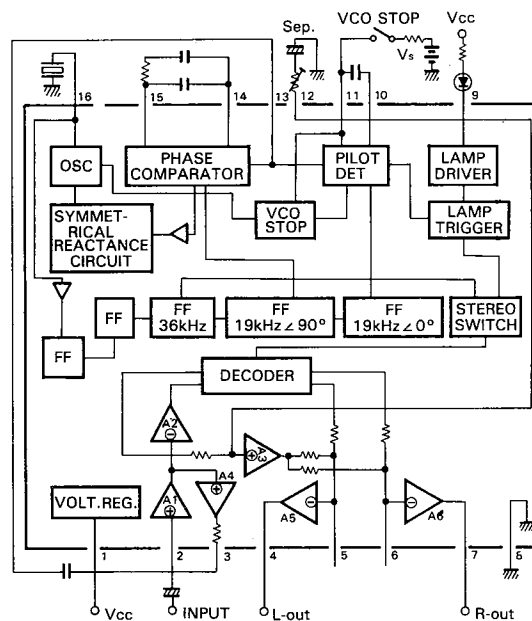
•BA6104 (LED Drive)



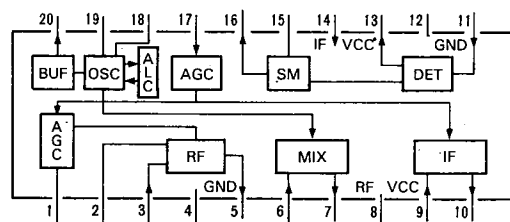
•TC4022BP (8 Count Divider)



•LA3410 (MPX)



•LA1245 (AM Tuner)



•M5222L (Dual Voltage Control Amp.)

