

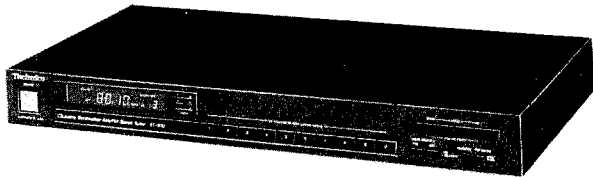
Service Manual

QUARTZ Synthesizer
AM/FM Stereo Tuner

Tuner
ST-600

Color

(S) Silver Type
(K) Black Type



Area

| Color | Area |
|--------|---|
| (S)(K) | (EX) Continental Europe. |
| (S)(K) | (Ei) Italy. |
| (S)(K) | (EG) F.R. Germany. |
| (S)(K) | (EH) Holland. |
| (S)(K) | (XL) Australia. |
| (S)(K) | (XA) Asia, Latin America, Middle Near East, Africa and Oceania. |
| (K) | (XB) Saudi Arabia. |

SPECIFICATIONS

(DIN 45 500)

■ FM TUNER SECTION

| | |
|---------------------------------------|-----------------------------------|
| Frequency range | 87.50 ~ 108.00 MHz (50 kHz-steps) |
| Sensitivity | 1.5 μ V (IHF, usable) |
| S/N 30 dB | 1.3 μ V (75 Ω) |
| S/N 26 dB | 1.2 μ V (75 Ω) |
| S/N 20 dB | 0.9 μ V (75 Ω) |
| IHF 46 dB stereo quieting sensitivity | 28 μ V / 75 Ω |
| Total harmonic distortion | |
| MONO | 0.15% |
| STEREO | 0.3% |
| S/N | |
| MONO | 70 dB (78 dB, IHF) |
| STEREO | 65 dB (70 dB, IHF) |
| Frequency response | 20 Hz ~ 15 kHz, +0.5 dB ~ -1.5 dB |
| Alternate channel selectivity | |
| normal \pm 400 kHz | 65 dB |
| Capture ratio | 1.0 dB |
| Image rejection at 98 MHz | 40 dB |
| IF rejection at 98 MHz | 70 dB |
| Spurious response rejection at 98 MHz | 70 dB |
| AM suppression | 55 dB |
| Stereo separation | |
| 1 kHz | 40 dB |
| 10 kHz | 30 dB |
| Carrier leak | |
| 19 kHz | -30 dB (-35 dB, IHF) |
| 38 kHz | -45 dB (-50 dB, IHF) |
| Channel balance (250 Hz ~ 6,300 Hz) | \pm 1.5 dB |
| Limiting point | 1.2 μ V |
| Bandwidth | |
| IF amplifier | 180 kHz |
| FM demodulator | 1000 kHz |
| Antenna terminals | 75 Ω (unbalanced) |

■ AM TUNER SECTION

| | |
|---------------------------------------|-----------------------------------|
| Frequency range | 531 kHz ~ 1602 kHz (9 kHz-steps) |
| (For Saudi Arabia) | 530 kHz ~ 1600 kHz (10 kHz-steps) |
| (For others) | 522 kHz ~ 1611 kHz (9 kHz-steps) |
| | 530 kHz ~ 1620 kHz (10 kHz-steps) |
| Sensitivity (S/N 20 dB) | 20 μ V, 300 μ V/m |
| Selectivity at 999 kHz (\pm 9 kHz) | 50 dB |
| Image rejection at 999 kHz | 40 dB |
| IF rejection at 999 kHz | 60 dB |

■ GENERAL

| | |
|------------------------|---|
| Output voltage | 1.3V (0.6V, IHF) |
| Power consumption | 9W |
| Power supply | |
| For Australia | AC 50 Hz/60 Hz, 240V |
| For continental Europe | AC 50 Hz/60 Hz, 220V |
| For others | AC 50 Hz/60 Hz, 110V/117V/220V/240V |
| Dimensions (W x H x D) | 430 x 53 x 220 mm (16-15/16" x 2-2/12" x 8-21/32") |
| Weight | 2.0 kg (4.4 lb.) |

Notes:

- Specifications are subject to change without notice. Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

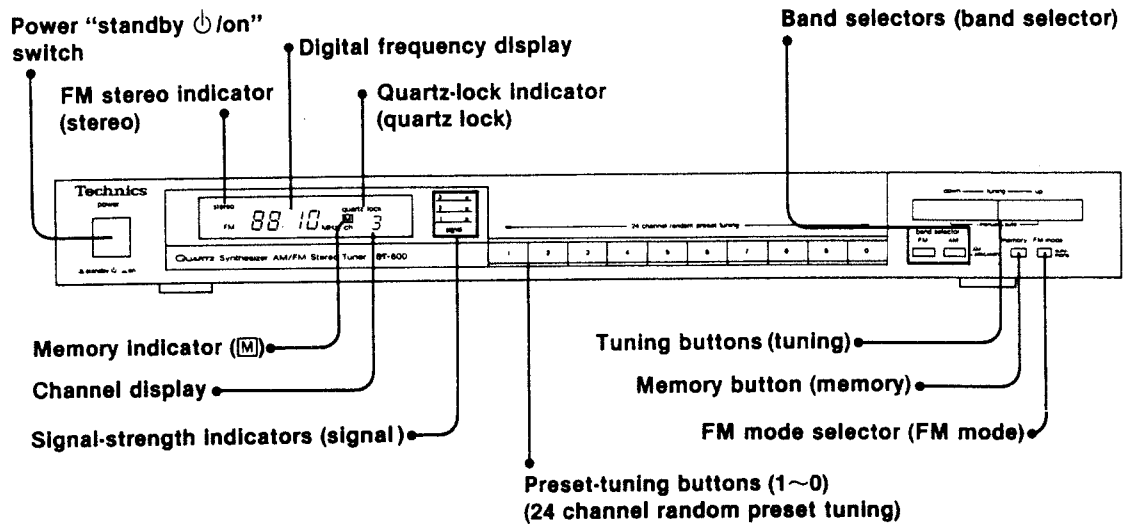
ST-600

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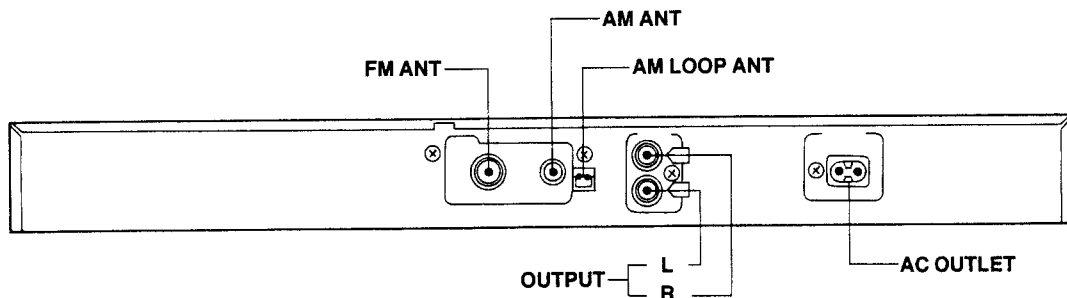
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LOCATION OF CONTROLS

Front panel

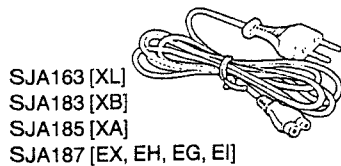


Rear panel



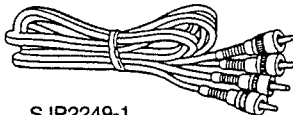
ACCESSORIES

- AC power supply cord..... 1



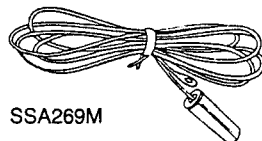
SJA163 [XL]
SJA183 [XB]
SJA185 [XA]
SJA187 [EX, EH, EG, EI]

- Stereo connection cable..... 1



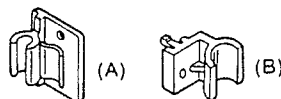
SJP2249-1

- FM indoor antenna..... 1



SSA269M

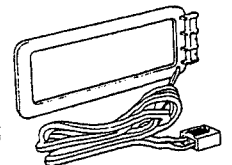
- AM antenna holders..... 2



SMA231M

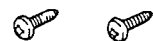
SMA233-1M

- AM loop antenna..... 1



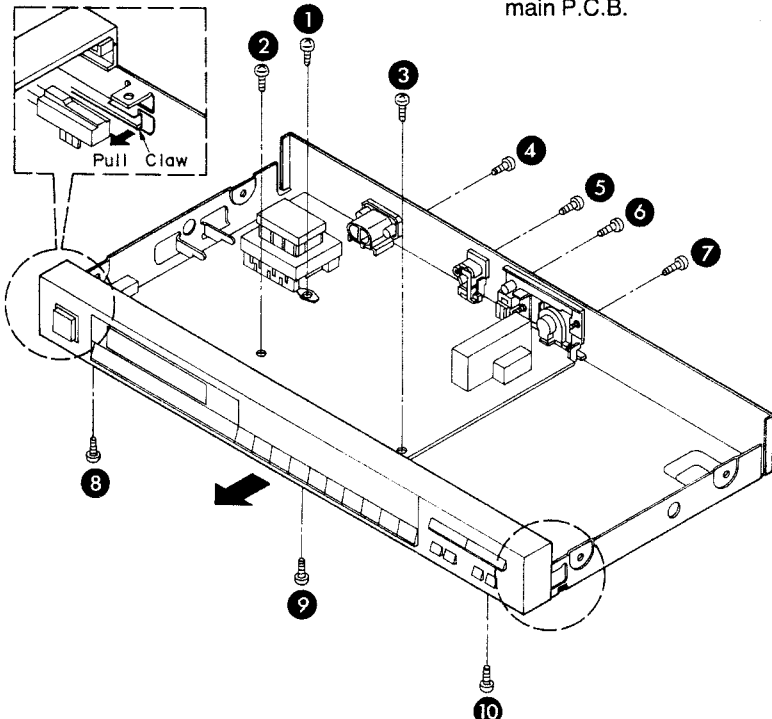
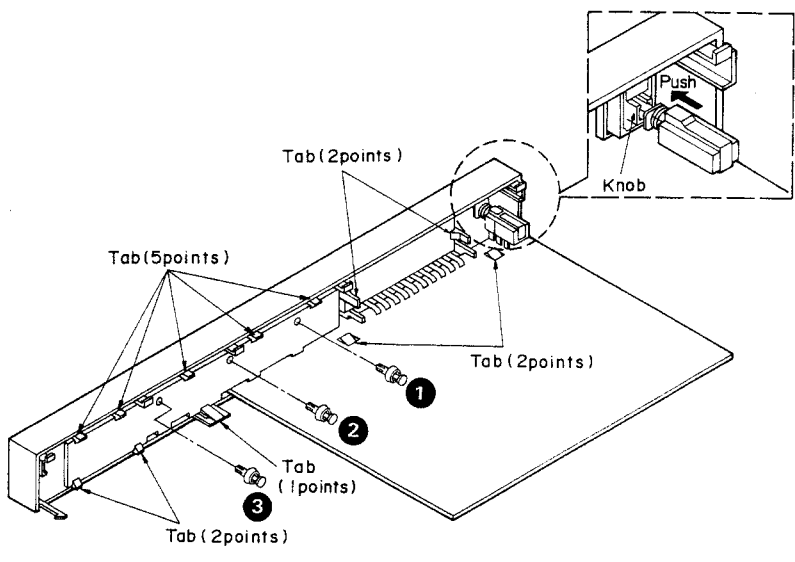
SPB1139-1

- Screws..... 2



XTN3+10AFZ

DISASSEMBLY INSTRUCTIONS

| | | |
|----------------------------|--|---|
| <p>Ref. No. 1</p> | <p>How to remove the cabinet</p> | |
| <p>Procedure 1</p> | <p>•Remove the 4 screws.</p> | |
| <p>Ref. No. 2</p> | <p>How to remove the main P.C.B.</p> | <p>1. Remove the 10 screws (①~⑩). 2. Remove the 2 claws. 3. Slightly pull the front panel toward you and remove the main P.C.B.</p> |
| <p>Procedure 1→2</p> |  | |
| <p>Ref. No. 3</p> | <p>How to remove the front panel</p> | <p>1. Remove the power switch knob. 2. Remove the 3 nylon rivets (①~③). 3. Remove the 12 tabs.</p> |
| <p>Procedure 1→2→3</p> |  | |

MEASUREMENTS AND ADJUSTMENTS

FM ADJUSTMENT

Control positions and equipment used

- FM signal generator(FM-SG)
- Stereo modulator
- Distortion analyser
- DC electronic voltmeter(EVM)
- Frequency counter
- Choke coil(100 μ H)
- Resistor(100k Ω)

Note: For Z202(AM-IFT), Z201(AM ANT and OSC coil), Z321(FM ANT coil), L321 (L.P.F), L322(L.P.F) and L324(L.P.F), they are supplied as adjusted parts. So, do not turn the cores of the parts.

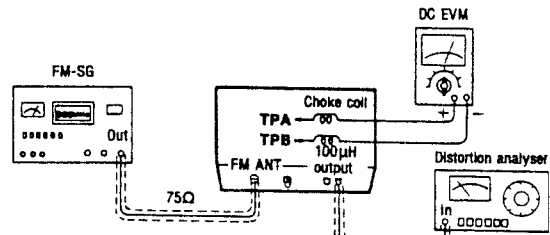
FM MONO DISTORTION ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Set the unit to "FM" mode.
3. Set the radio frequency display and signal generator to 100.10MHz.
4. Adjust the core of T201 so that the voltage measured in signal mode is 0mV(0 \pm 20mV) in 300mV range.
5. Adjust T202 so that the distortion factor of L-CH is minimized.
6. Repeat steps 4 and 5.
7. Make sure that the distortion factors of L-CH and R-CH are nearly the same and minimum.

Note: The adjusting screwdriver used should be made of resin.

FM SIGNAL GENERATOR CONDITION

Modulation100%
 Modulation frequency1kHz
 Output level66dB



TPA = TP201, TPB = TP202

MPX VCO ADJUSTMENT

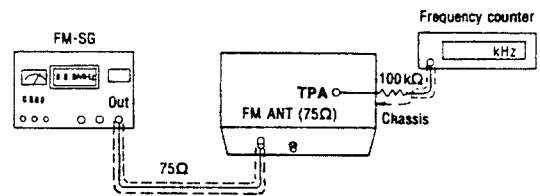
1. Test equipment connection is shown in figure.
2. Set the unit to "on/auto" position.
3. Set the radio dial and signal generator to 100.10MHz.
4. Adjust VR301 for 19kHz \pm 30Hz on frequency counter reading.

USING ALTERNATE SYSTEM

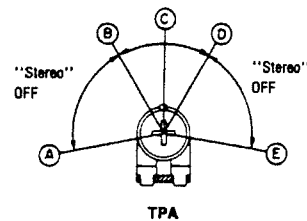
1. Receive the stereo broadcast.
2. Adjust VR301 until stereo indicator lights up. Fix the arm of VR301 as shown in figure.

FM SIGNAL GENERATOR CONDITION

Modulation100%
 Modulation frequency0kHz
 Output level66dB



TPA = TP301



- A-B,
- D-E "Stereo" OFF position
- B-D "Stereo" ON position (Indicator lighting)
- C Adjust point of pilot circuit

TPA = VR301

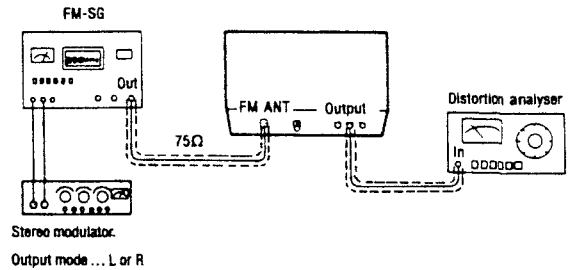
**FM STEREO DISTORTION ADJUSTMENT
(EG) and (Ei) only**

1. Test equipment connection is shown in figure.
2. Set the unit to "FM" mode.
3. Set the radio frequency display and signal generator to **100.10MHz**.
4. Adjust T1 so that the distortion factor of L-CH is minimized.
5. Make sure that the distortion factors of L-CH and R-CH are nearly the same and minimum.

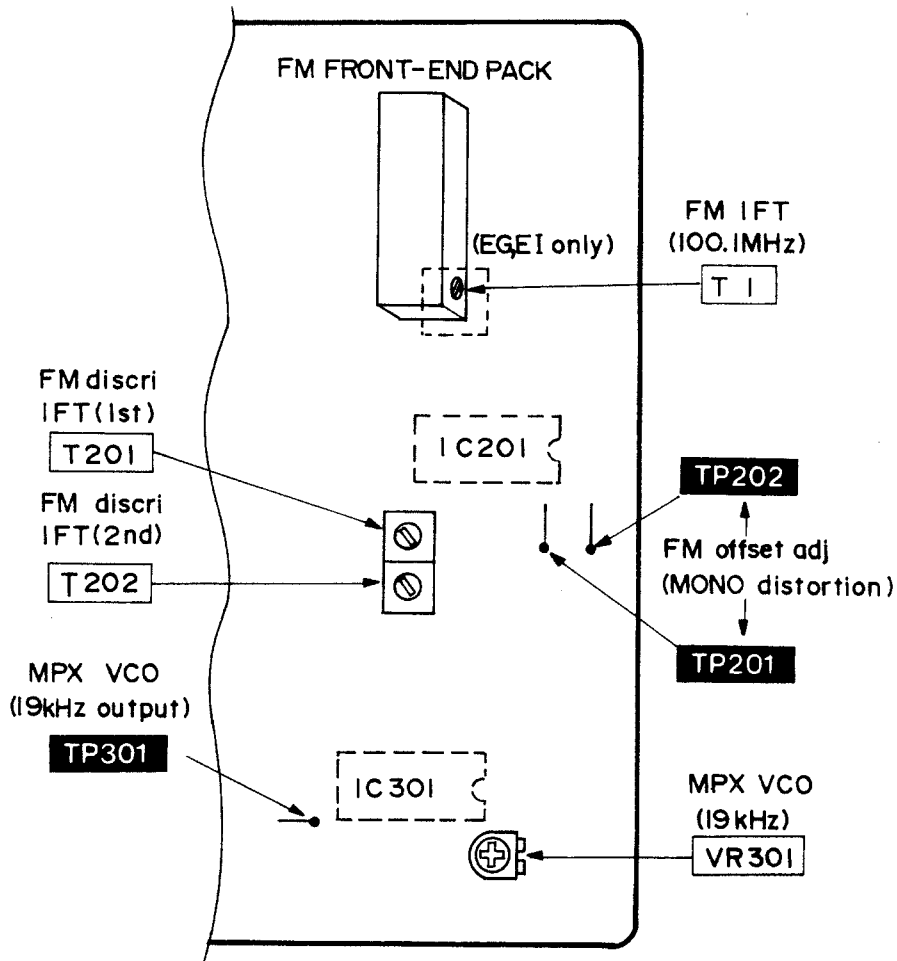
Note: The adjusting screwdriver used should be made of resin.

FM SIGNAL GENERATOR CONDITION

Modulation "L" mode or "R" mode 90%,
 Pilot 10%
 Modulation frequency 1kHz (Pilot 19kHz)
 Output level -66dB



● **Adjustment Points**



RESISTORS & CAPACITORS

Notes : * Important safety notice :

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

Numbering System of Resistor

Example:

| | | | | |
|------|-------------------|-------|-----------|--------------------------|
| ERD | 25 | F | J | 102 |
| Type | Wattage (1/4W) | Shape | Tolerance | Value (1K Ω) |
| ERX | 2 | AN | J | 471 |
| Type | Wattage (2W) | Shape | Tolerance | Value (470 Ω) |

Numbering System of Capacitor

Example:

| | | | | |
|------|------------------|--------------------------|-----------------------|-------------|
| ECKD | 1H | 102 | Z | F |
| Type | Voltage (50V) | Value (0.001 μ F) | Tolerance | Peculiarity |
| ECEA | 50 | M | 330 | |
| Type | Voltage (50V) | Peculiarity | Value (33 μ F) | |

- Capacity are in microfarads (μ F) unless specified otherwise, P = Pico-farads (pF) F = Farads (F).
- Resistance are in ohms (Ω), unless specified otherwise, 1K = 1,000 Ω , 1M = 1,000K Ω

| Resistor Type | Wattage | | Tolerance |
|-----------------------------------|------------|-----------|---------------|
| ERD : Carbon | 10 : 1/8W | 12 : 1/2W | J : \pm 5% |
| ERG : Metal Oxide | 14 : 1/4W | 25 : 1/4W | F : \pm 1% |
| ERQ : Fuse Type Metal | 1A : 1W | 1B : 1/8W | G : \pm 2% |
| ERX : Metal Film | S2 : 1/4W | S1 : 1/2W | J : \pm 5% |
| ERD L : Carbon (chip) | 2F : 1/4W | 50 : 1/2W | K : \pm 10% |
| ERD K : Metal Film (chip) | 2A : 2W | 3A : 3W | M : \pm 20% |
| ERC : Solid | 6G : 1/10W | 8G : 1/8W | |
| ERF : Incombustible Box-Shaped | | | |
| ERM : Wire-Wound | | | |
| RRJ : Chip Resistor | | | |
| ERJ : Chip Resistor | | | |

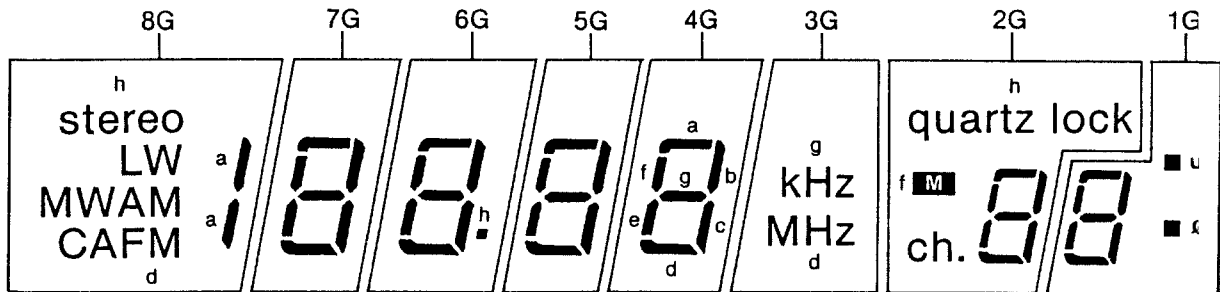
| Capacitor Type | Voltage | | Tolerance |
|--|----------------------|-----------|---|
| ECE : Electrolytic | 0J : 6.3V | 1A : 10V | K : \pm 10% |
| ECCD : Ceramic | 1C : 16V | 1E : 25V | M : \pm 20% |
| ECKD : Ceramic Capacitor | 1H : 50V | 1V : 35V | Z : +80 % -20 |
| ECQM : Polyester | 50 : 50V | 05 : 50V | |
| ECOP : Polypropylene | 2H : 500V | 2A : 100V | J : \pm 5% |
| ECG : Ceramic | 1 : 100V | 1J : 63V | G : \pm 2% |
| ECEA N : Non Polar Electrolytic | KC : 400V AC | | F : \pm 1% |
| OCU : Ceramic (Chip Type) | KC : 125V AC (UL) | | C : \pm 0.25 μ F D : \pm 0.5pF |
| ECUX : Ceramic (Chip Type) | | | |
| ECF : Semiconductor | | | |
| ECW : Liquid electrolyte double layer capacitor | | | |

| Ref. No. | Part No. | Value. | Ref. No. | Part No. | Value. | Ref. No. | Part No. | Value. |
|--------------------------|------------|----------|--------------|------------|----------|----------|------------|----------|
| RESISTORS(VALUE,WATTAGE) | | | R231 | ERDS2TJ102 | 1K 1/4 | R313 | ERDS2TJ473 | 47K 1/4 |
| R101 | ERDS2TJ103 | 10K 1/4 | R232 | ERDS2TJ122 | 1.2K 1/4 | R314 | ERDS2TJ473 | 47K 1/4 |
| R102 | ERDS2TJ103 | 10K 1/4 | R233 | ERDS2TJ684 | 680K 1/4 | R315 | ERDS2TJ103 | 10K 1/4 |
| R104 | ERDS2TJ102 | 1K 1/4 | R234 | ERDS2TJ103 | 10K 1/4 | R316 | ERDS2TJ102 | 1K 1/4 |
| R105 | ERDS2TJ561 | 560 1/4 | R235 | ERDS2TJ471 | 470 1/4 | R317 | ERDS2TJ473 | 47K 1/4 |
| R106 | ERDS2TJ562 | 5.6K 1/4 | R237 | ERDS2TJ151 | 150 1/4 | R321 | ERDS2TJ153 | 15K 1/4 |
| R107 | ERDS2TJ103 | 10K 1/4 | (EX, EH, XA) | | | (EG, E1) | | |
| R108 | ERDS2TJ151 | 150 1/4 | (XL, XB) | | | R322 | ERDS2TJ153 | 15K 1/4 |
| R201 | ERDS2TJ332 | 3.3K 1/4 | R240 | ERDS2TJ152 | 1.5K 1/4 | (EG, E1) | | |
| R202 | ERDS2TJ824 | 820K 1/4 | (EG, E1) | | | R325 | ERDS2TJ102 | 1K 1/4 |
| R203 | ERDS2TJ122 | 1.2K 1/4 | R247 | ERDS2TJ103 | 10K 1/4 | (EG, E1) | | |
| R204 | ERDS2TJ474 | 470K 1/4 | R301 | ERDS2TJ393 | 39K 1/4 | R326 | ERDS2TJ102 | 1K 1/4 |
| (EG, E1) | | | R302 | ERDS2TJ151 | 150 1/4 | (EG, E1) | | |
| R204 | ERDS2TJ824 | 820K 1/4 | R303 | ERDS2TJ223 | 22K 1/4 | R327 | ERDS2TJ183 | 18K 1/4 |
| (EX, EH, XA) | | | R304 | ERDS2TJ223 | 22K 1/4 | (EG, E1) | | |
| (XL, XB) | | | R305 | ERDS2TJ272 | 2.7K 1/4 | R402 | ERDS2TJ221 | 220 1/4 |
| R205 | ERDS2TJ221 | 220 1/4 | (EG, E1) | | | R403 | ERDS2TJ181 | 180 1/4 |
| (EG, E1) | | | R305 | ERDS2TJ332 | 3.3K 1/4 | R404 | ERDS2TJ151 | 150 1/4 |
| R205 | ERDS2TJ391 | 390 1/4 | (EX, EH, XA) | | | R405 | ERDS2TJ122 | 1.2K 1/4 |
| (EX, EH, XL) | | | (XL, XB) | | | R406 | ERDS2TJ561 | 560 1/4 |
| (XB, XA) | | | R306 | ERDS2TJ272 | 2.7K 1/4 | R408 | ERDS2TJ182 | 1.8K 1/4 |
| R206 | ERDS2TJ561 | 560 1/4 | (EG, E1) | | | R409 | ERDS2TJ563 | 56K 1/4 |
| R207 | ERDS2TJ822 | 8.2K 1/4 | R306 | ERDS2TJ332 | 3.3K 1/4 | R702 | ERDS2TJ102 | 1K 1/4 |
| R208 | ERDS2TJ102 | 1K 1/4 | (EX, EH, XA) | | | R703 | ERDS2TJ221 | 220 1/4 |
| R209 | ERDS2TJ471 | 470 1/4 | (XL, XB) | | | R704 | ERDS2TJ102 | 1K 1/4 |
| R211 | ERDS2TJ222 | 2.2K 1/4 | R307 | ERDS2TJ104 | 100K 1/4 | R710 | ERDS2TJ103 | 10K 1/4 |
| R212 | ERDS2TJ153 | 15K 1/4 | (EX, EH, XA) | | | R711 | ERDS2TJ104 | 100K 1/4 |
| R213 | ERDS2TJ104 | 100K 1/4 | (XL, XB) | | | R716 | ERDS2TJ101 | 100 1/4 |
| R214 | ERDS2TJ824 | 820K 1/4 | R307 | ERDS2TJ562 | 5.6K 1/4 | R717 | ERDS2TJ101 | 100 1/4 |
| R215 | ERDS2TJ822 | 8.2K 1/4 | (E1, EG) | | | R725 | ERDS2TJ103 | 10K 1/4 |
| R216 | ERDS2TJ563 | 56K 1/4 | R308 | ERDS2TJ104 | 100K 1/4 | R901 | ERDS2TJ103 | 10K 1/4 |
| R217 | ERDS2TJ223 | 22K 1/4 | (EX, EH, XA) | | | R902 | ERDS2TJ103 | 10K 1/4 |
| R218 | ERDS2TJ123 | 12K 1/4 | (XL, XB) | | | R903 | ERDS2TJ103 | 10K 1/4 |
| R219 | ERDS2TJ562 | 5.6K 1/4 | R308 | ERDS2TJ562 | 5.6K 1/4 | R915 | ERDS2TJ821 | 820 1/4 |
| R220 | ERDS2TJ103 | 10K 1/4 | (E1, EG) | | | R916 | ERDS2TJ272 | 2.7K 1/4 |
| R221 | ERDS2TJ104 | 100K 1/4 | R309 | ERDS2TJ104 | 100K 1/4 | R917 | ERDS2TJ103 | 10K 1/4 |
| R222 | ERDS2TJ473 | 47K 1/4 | (EG, E1) | | | R918 | ERDS2TJ224 | 220K 1/4 |
| R227 | ERDS2TJ104 | 100K 1/4 | R309 | ERDS2TJ224 | 220K 1/4 | R922 | ERDS2TJ681 | 680 1/4 |
| R228 | ERDS2TJ123 | 12K 1/4 | (EX, EH, XA) | | | R923 | ERDS2TJ104 | 100K 1/4 |
| R229 | ERDS2TJ102 | 1K 1/4 | (XL, XB) | | | R924 | ERDS2TJ392 | 3.9K 1/4 |
| R230 | ERDS2TJ104 | 100K 1/4 | R311 | ERDS2TJ102 | 1K 1/4 | R925 | ERDS2TJ473 | 47K 1/4 |
| | | | R312 | ERDS2TJ153 | 15K 1/4 | R930 | ERDS2TJ104 | 100K 1/4 |

| Ref. No. | Part No. | Value. | Ref. No. | Part No. | Value. | Ref. No. | Part No. | Value. |
|----------------------------------|--------------|----------|--------------|--------------|-----------|--------------|--------------|-----------|
| R931 | ERDS2TJ104 | 100K 1/4 | C220 | ECEA1CKS100 | 10 16 | C323 | ECFTD332KXL | 0.0033 25 |
| R932 | ERDS2TJ104 | 100K 1/4 | C222 | ECFTD473KXL | 0.047 25 | (EG, E1) | | |
| R933 | ERDS2TJ104 | 100K 1/4 | C225 | RCBS1H180JCY | 18P 50 | C324 | ECFTD332KXL | 0.0033 25 |
| R946 | ERDS2TJ101 | 100 1/4 | C226 | ECKD1H103PF | 0.01 50 | (EG, E1) | | |
| R950 | ERDS2TJ683 | 68K 1/4 | C227 | ECEA1CKS100 | 10 16 | C325 | ECCD1H330KC | 33P 50 |
| R951 | ERDS2TJ683 | 68K 1/4 | C230 | RCBC1H471KBY | 470P 50 | (EG, E1) | | |
| R952 | ERDS2TJ683 | 68K 1/4 | (E1, EG) | | | C326 | ECKD1H103PF | 0.01 50 |
| R953 | ERDS2TJ683 | 68K 1/4 | C301 | ECEA1CU101 | 100 16 | (EG, E1) | | |
| R954 | ERDS2TJ683 | 68K 1/4 | C302 | ECEA1HKR47 | 0.47 50 | C327 | ECBT1H102KB5 | 0.001 50 |
| R960 | ERDS2TJ103 | 10K 1/4 | C303 | ECEA1HK010 | 1 50 | (EG, E1) | | |
| R961 | ERDS2TJ273 | 27K 1/4 | C304 | ECEA1VK3R3 | 3.3 35 | C401 | ECEA1VK3R3 | 3.3 35 |
| CAPACITORS(VALUE,VOLTAGE) | | | C305 | ECEA1VK3R3 | 3.3 35 | C701 | ECEA1CU222 | 2200 16 |
| C101 | RCBS1H150JCY | 15P 50 | C306 | ECEA1VK3R3 | 3.3 35 | (EG, E1) | | |
| C102 | RCBS1H150JCY | 15P 50 | C307 | ECFTD153KXL | 0.015 25 | C701 | ECEA1EU102 | 1000 25 |
| C103 | ECBT1H102KB5 | 0.001 50 | (EX, EH, XA) | | | (EX, EH, XA) | | |
| C104 | RCBS1H181KBY | 180P 50 | (XL, XB) | | | (XL, XB) | | |
| C105 | ECEA0JU101 | 100 6.3 | C307 | ECFTD332KXL | 0.0033 25 | C702 | ECEA1EU102 | 1000 25 |
| C106 | ECKD1H103PF | 0.01 50 | (EG, E1) | | | C704 | ECKD1H103PF | 0.01 50 |
| C107 | ECKD1H103PF | 0.01 50 | C308 | ECFTD153KXL | 0.015 25 | (EX, EH, XA) | | |
| C108 | ECEA25M4R7 | 4.7 25 | (EX, EH, XA) | | | (XL, XB) | | |
| C109 | ECEA1CU330 | 33 16 | (XL, XB) | | | C705 | ECEA1CU221 | 220 16 |
| C110 | ECBT1H102KB5 | 0.001 50 | C308 | ECFTD332KXL | 0.0033 25 | C707 | ECKD1H103PF | 0.01 50 |
| C201 | ECKD1H103PF | 0.01 50 | (EG, E1) | | | C710 | ECKD2H102ZF | 0.001 500 |
| C202 | ECKD1H103PF | 0.01 50 | C310 | ECFTD473KXL | 0.047 25 | C711 | ECKD1H103PF | 0.01 50 |
| C204 | RCBC1H470JLY | 47P 50 | C311 | ECQP1471JZ | 470P 125 | C716 | ECEA1VU101 | 100 35 |
| C205 | ECKD1H223PF | 0.022 50 | C312 | ECEA1CKS100 | 10 16 | C717 | ECKD2H102ZF | 0.001 500 |
| C206 | RCBS1H150JCY | 15P 50 | C313 | ECBT1H102KB5 | 0.001 50 | C718 | ECKD1H103PF | 0.01 50 |
| C208 | ECEA0JU101 | 100 6.3 | (EG, E1) | | | C719 | ECEA1VU101 | 100 35 |
| C209 | ECEA1EK4R7 | 4.7 25 | C313 | RCBS1H181KBY | 180P 50 | C720 | ECKD1H103PF | 0.01 50 |
| C210 | ECKD1H223PF | 0.022 50 | (EX, EH, XA) | | | (EG, E1) | | |
| C211 | ECKD1H223PF | 0.022 50 | (XL, XB) | | | C725 | ECEA1VK100B | 10 35 |
| C212 | ECKD1H223PF | 0.022 50 | C314 | ECBT1H102KB5 | 0.001 50 | C726 | ECEA1VK3R3 | 3.3 35 |
| C213 | RCBS1H101KBY | 100P 50 | (EG, E1) | | | C902 | ECKD1H103PF | 0.01 50 |
| C214 | ECEA1CKS100 | 10 16 | C314 | RCBS1H181KBY | 180P 50 | C912 | ECEA0JS102 | 1000 6.3 |
| C215 | ECKD1H103PF | 0.01 50 | (EX, EH, XA) | | | C913 | ECKD1H103PF | 0.01 50 |
| C216 | ECEA1CKS100 | 10 16 | (XL, XB) | | | C914 | ECEA0JS102 | 1000 6.3 |
| C217 | ECEA1HK010 | 1 50 | C321 | ECEA1CKS100 | 10 16 | C915 | ECEA1HKR22 | 0.22 50 |
| | | | (EG, E1) | | | C916 | RCBC1H101KBY | 100P 50 |
| | | | | | | C917 | RCBS1H121KBY | 120P 50 |

DESCRIPTION OF FL PANEL

GRID ASSIGNMENT



Note: The grid of 3G and 8G are used for external connection.

PIN CONNECTION

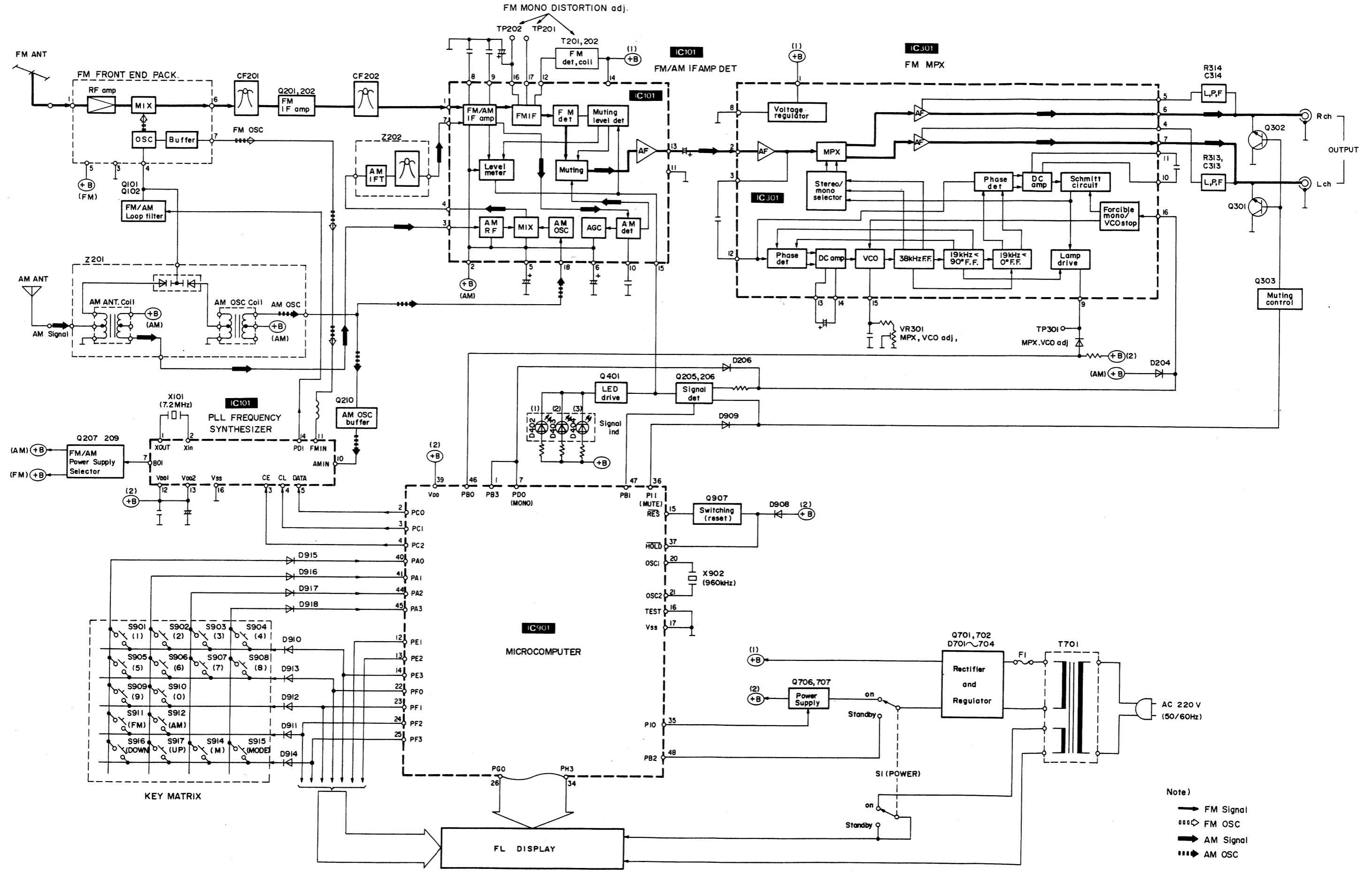
| | | | | | | | | | | | | | | | | | | |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| PIN NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| CONNECTION | F1 | F1 | NP | h | f | 8G | AM | MW | CA | LW | 7G | c | a | 6G | e | d | g | 5G |
| PIN NO. | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | |
| CONNECTION | b | NP | 4G | NP | NP | 3G | NP | NP | ch | 2G | NP | u | 1G | l | NP | F2 | F2 | |

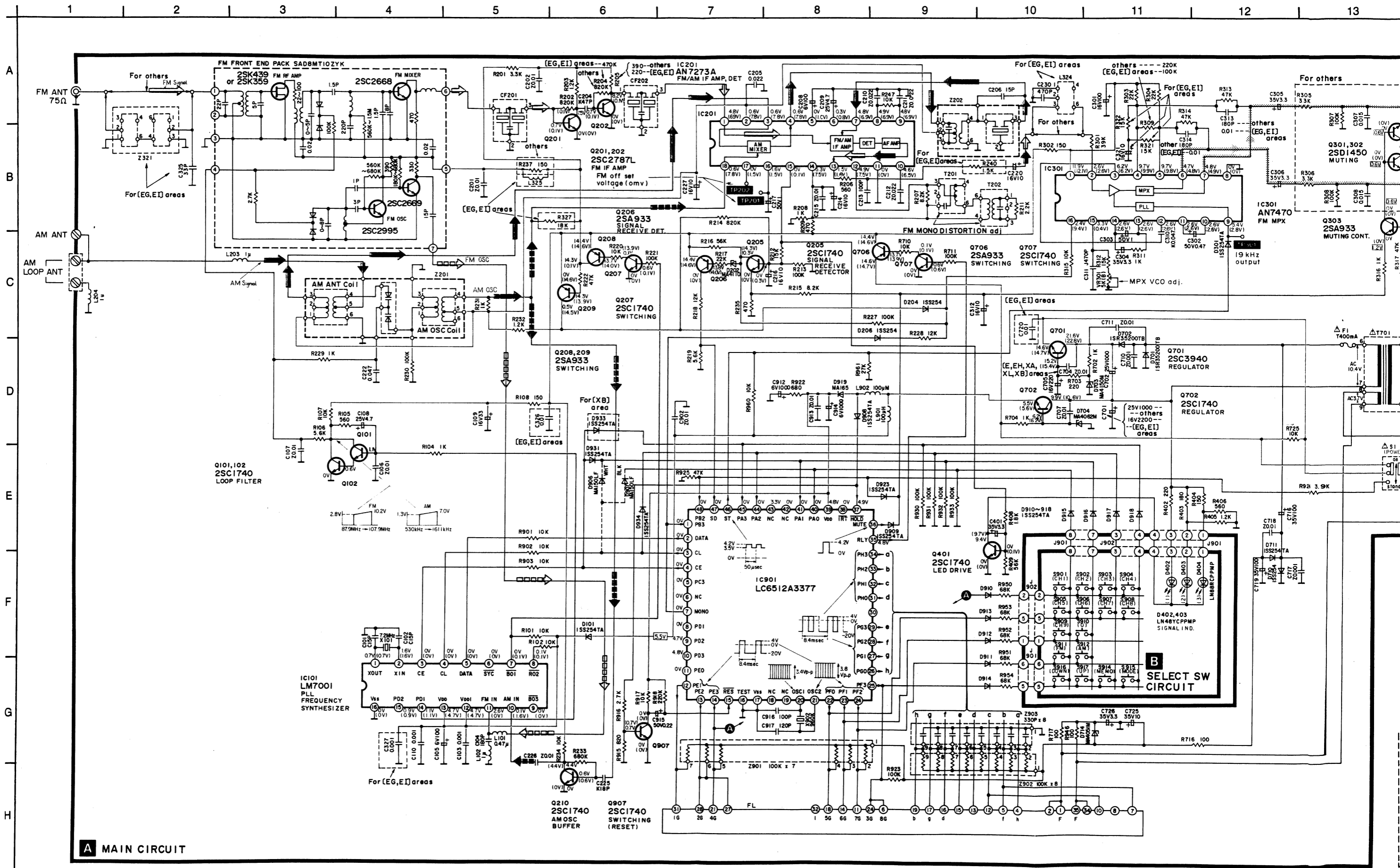
FUNCTION OF TERMINAL (IC901: LC6512A3377)

| PIN NO. | IN/OUT | MARK | DESCRIPTION OF TERMINAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------|--------------------------|--|---|----|--------------|----|--|--|--|---------|----|----|----|----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|---|---|-----|-----|----|---|---|----|----|----|------|--------|----|------|
| 1 | INPUT | PB3 | Computer drive terminal. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | OUTPUT | DATA | <p> $t > \frac{8}{f_{XOSC}}$ CL DATA CE 内部 → f_{XOSC}: Crystal OSC D0~D13: Divided frequency data R0~R2: Reference frequency data </p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | CL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | CE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | — | PC3 | | Not used in this unit. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | — | NC | Not used in this unit. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | OUTPUT | PD0 | Auto/mono changeover terminal. (auto → 0V, mono → 5V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | OUTPUT | PD1 | Computer drive terminal. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | — | PD2 | Not used in this unit. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | PD3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | PE0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 14 22 25 | OUTPUT | PE1 PE3 PF0 PF3 | Digital signal terminal for display. Terminal for key return signal to external key matrix. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | INPUT | RES | Reset terminal. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | — | TEST | Ground terminal. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | V _{SS} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | — | NC | Not used in this unit. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | NC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | INPUT | OSC1 | Connecting terminal for crystal oscillator. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | OUTPUT | OSC2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 29 31 34 | OUTPUT | PG0 PG3 PH0 PH3 | Segment signal terminal for display. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | — | NC | Not used in this unit. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | OUTPUT | P10 | Control signal terminal for relay (RLY701). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | OUTPUT | P11 | Muting signal terminal. (Muting → High level) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | INPUT | HOLD | Terminal for power failure detection. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | INPUT | INT | Terminal for remote control cord. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | INPUT | V _{DD} | Power supply terminal of device. Voltage of 5V is supplied during operation of device. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | INPUT | PA0 PA3 | Terminal for key return signal to external key matrix. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | | | | <table border="1"> <thead> <tr> <th colspan="5">[KEY MATRIX]</th> </tr> <tr> <th>Pin No.</th> <th>45</th> <th>44</th> <th>41</th> <th>40</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>CH4</td> <td>CH3</td> <td>CH2</td> <td>CH1</td> </tr> <tr> <td>22</td> <td>CH8</td> <td>CH7</td> <td>CH6</td> <td>CH5</td> </tr> <tr> <td>23</td> <td>—</td> <td>—</td> <td>CH0</td> <td>CH9</td> </tr> <tr> <td>24</td> <td>—</td> <td>—</td> <td>AM</td> <td>FM</td> </tr> <tr> <td>25</td> <td>MODE</td> <td>MEMORY</td> <td>UP</td> <td>DOWN</td> </tr> </tbody> </table> | | [KEY MATRIX] | | | | | Pin No. | 45 | 44 | 41 | 40 | 14 | CH4 | CH3 | CH2 | CH1 | 22 | CH8 | CH7 | CH6 | CH5 | 23 | — | — | CH0 | CH9 | 24 | — | — | AM | FM | 25 | MODE | MEMORY | UP | DOWN |
| [KEY MATRIX] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin No. | | | | 45 | 44 | 41 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | CH4 | CH3 | CH2 | CH1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | CH8 | CH7 | CH6 | CH5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | — | — | CH0 | CH9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | — | — | AM | FM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | MODE | MEMORY | UP | DOWN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 43 | — | NC | Not used in this unit. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | INPUT | PB0 | Stereo signal terminal. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | | PB2 | SD signal terminal. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | | | Tuner select terminal. (Ground connection) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

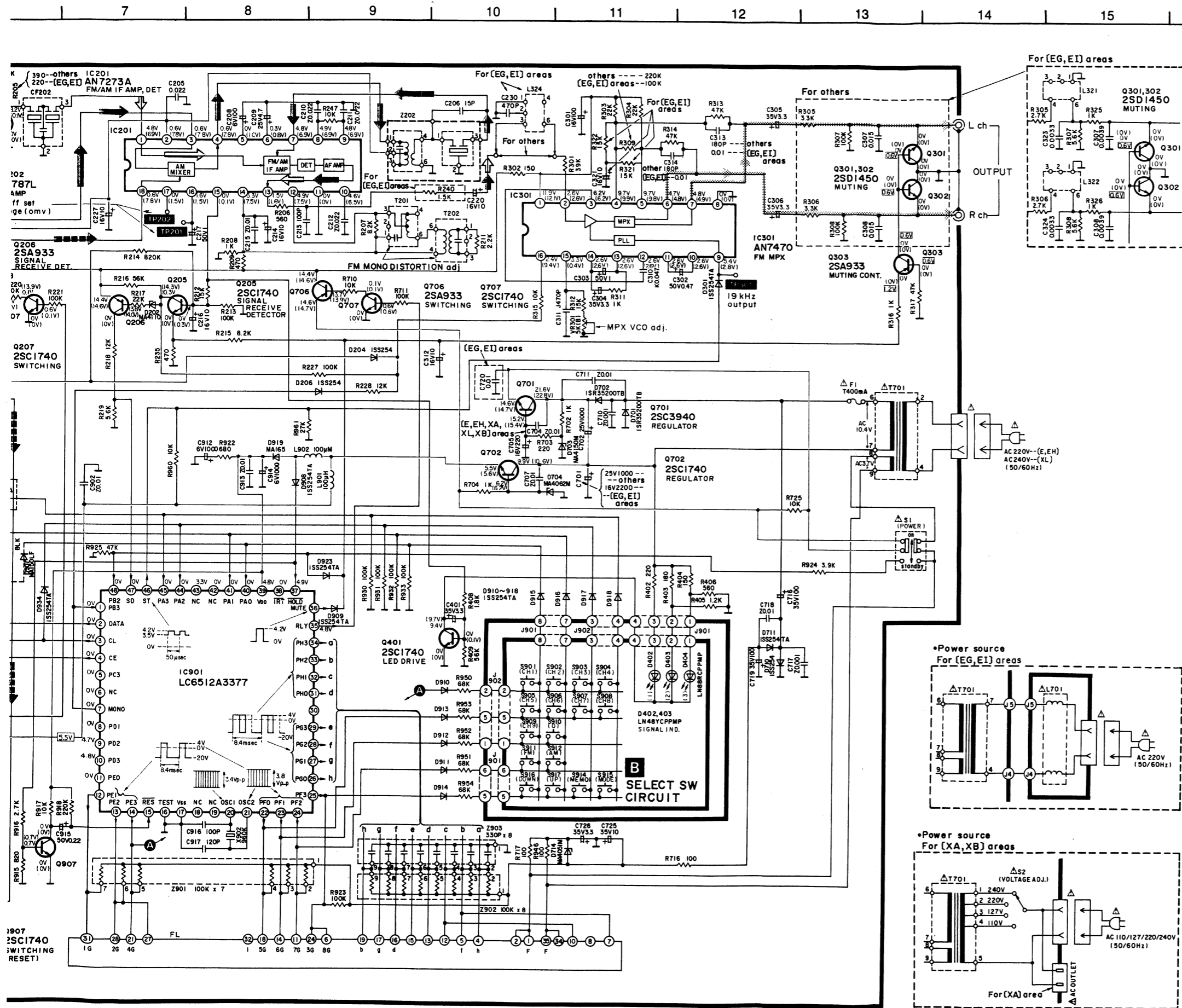
ST-600 ST-600

■ BLOCK DIAGRAM





A MAIN CIRCUIT



SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

Note 1:

- S1 : Power source switch in "on" position.
- S2 : Voltage selector in "240 V" position. (for [XA] and [XB] areas only)
- S901~S910 : Preset tuning switch. (S901: CH1, S902: CH2, S903: CH3, S904: CH4, S905: CH5, S906: CH6, S907: CH7, S908: CH8, S909: CH9, S910: CH0)
- S911 : FM select switch.
- S912 : AM select switch.
- S914 : Memory set switch. (manual ↔ auto memory)
- S915 : FM mode switch.
- S916 : Tuning (down) switch. [down: tuning to lower frequency]
- S917 : Tuning (up) switch. [up: tuning to higher frequency]

Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester. (): AM voltage

- Positive voltage lines
- FM OSC
- AM OSC
- ⋯ AF signal lines
- FM signal
- AM signal

Important safety notice

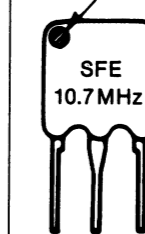
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Note 2:

Use of ceramic filters in pairs

The ceramic filters (CF201, CF202) for FM-IF circuit are available in three ranks. For this circuit, be sure to use the ceramics of the same rank in a pair. At repairing and replacement, pay close attention to the diodes (D906, D907) for use as different diodes must be used depending on each rank of the ceramic filters.

Color marking (Red, Black or White)



| RANK (Color) | D906 | D907 | CENTER FREQUENCY |
|--------------|------|------|------------------|
| White | ○ | × | 10.65 MHz |
| Red | × | × | 10.70 MHz |
| Black | × | ○ | 10.76 MHz |

Note: ○ mark: Diode is used.
× mark: Diode is not used.

*** Caution!**

- IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- * Cover the parts boxes made of plastics with aluminum coil.
- * Ground the soldering iron.
- * Put a conductive mat on the work table.
- * Do not touch the legs of IC or LSI with the fingers directly.

REPLACEMENT PARTS LIST

Notes : * Important safety notice :

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)
Parts without these indications can be used for all areas.

| Ref. No. | Part No. | Description | Ref. No. | Part No. | Description |
|-------------------------------|---------------|---------------------|-------------------------------|--------------|-----------------------|
| INTEGRATED CIRCUITS | | | (EG, E1) | | |
| IC101 | LM7001 | I.C. PLL FREQUENCY | L322 | SLM1B9-P | MPX COIL |
| IC201 | AN7273B | I.C. FM AM 1 FAMP | (EG, E1) | | |
| IC301 | SV1UPC1161C3 | I.C. FM MPX | L324 | SLM1B10-M | COIL |
| IC901 | LC6512A3377 | I.C. MICRO COMPUTER | (EG, E1) | | |
| TRANSISTORS | | | L325 | RLQZPR47KT-Y | CHOKE COIL |
| Q101 | 2SC1740SQ | TRANSISTOR | (EG, E1) | | |
| Q102 | 2SC1740SQ | TRANSISTOR | L701 | SLQZ650MH49 | CHOKE COIL |
| Q201 | 2SC2787L | TRANSISTOR | (EG, E1) | | |
| Q202 | 2SC2787L | TRANSISTOR | L901 | ELEXT101KA9 | COIL |
| Q205 | 2SC1740SQ | TRANSISTOR | L902 | ELEXT101KA9 | COIL |
| Q206 | 2SA933SQ,R | TRANSISTOR | T201 | SL148511-Z | I.F. TRANSFORMER |
| Q207 | 2SC1740SQ | TRANSISTOR | T202 | SL148513-Z | I.F. TRANSFORMER |
| Q208 | 2SA933SQ,R | TRANSISTOR | T701 Δ | SLT5K244-S | POWER TRANSFORMER |
| Q209 | 2SA933SQ,R | TRANSISTOR | (XL) | | |
| Q210 | 2SC1740SQ | TRANSISTOR | T701 Δ | SLT5K246-S | POWER TRANSFORMER |
| Q301 | 2SD1330R | TRANSISTOR | (XA, XB) | | |
| Q302 | 2SD1330R | TRANSISTOR | T701 Δ | SLT5K246-S | POWER TRANSFORMER |
| Q303 | 2SA933SQ,R | TRANSISTOR | (EX, EH, EG) | | |
| Q401 | 2SC1740SQ | TRANSISTOR | (E1) | | |
| Q701 | 2SC3940AQ,STA | TRANSISTOR | COMPONENT COMBINATIONS | | |
| Q702 | 2SC1740SQ | TRANSISTOR | Z201 | SLA221-T | COIL |
| Q706 | 2SA933SQ,R | TRANSISTOR | Z202 | SL17Z101-T | FREQUENCY TRANSFORMER |
| Q707 | 2SC1740SQ | TRANSISTOR | Z321 | SLA4Z13-Z | ANTENNA COIL |
| Q907 | 2SC1740SQ | TRANSISTOR | (EG, E1) | | |
| DIODES | | | Z901 | EXBF8E104J | COMBINATION COMPONENT |
| D101 | MA165 | DIODE | Z902 | EXBF9E104J | COMBINATION COMPONENT |
| D202 | MA4110M | DIODE | Z903 | EXFP8331MW | COMBINATION COMPONENT |
| D204 | MA165 | DIODE | FILTERS | | |
| D206 | MA165 | DIODE | CF201 | SVFE107MS8-Q | CERAMIC FILTER |
| D301 | MA165 | DIODE | (EX, EH, XA) | | |
| D402 | LN48YCPPMP | L.E.D | (XL, XB) | | |
| D403 | LN48YCPPMP | L.E.D | CF202 | SVFE107MS8-Q | CERAMIC FILTER |
| D404 | LN48YCPPMP | L.E.D | (EX, EH, XA) | | |
| D701 Δ | SVD1SR3S200A | RECTIFIER | (XL, XB) | | |
| D702 Δ | SVD1SR3S200A | RECTIFIER | OSCILLATORS | | |
| D703 | MA4150M | DIODE | X101 | SVQ49U722-S | CRYSTAL OSCILLATOR |
| D704 | MA4062-M | DIODE | X902 | EF0A960K04A | CERAMIC FILTER |
| D710 | MA165 | DIODE | DISPLAYS | | |
| D711 | MA165 | DIODE | FL | SAD6MT10ZYK | DISPLAY TUBE |
| D714 | MA4051-M | DIODE | FRONT PACKS | | |
| D906 | MA162A | DIODE | FE | SNVFE337G01 | TUNER |
| D907 | MA162A | DIODE | (E1, EG) | | |
| D908 | MA165 | DIODE | FE1 | SNVFE203E01 | TUNER |
| D909 | MA165 | DIODE | (EX, EH, XA) | | |
| D910 | MA165 | DIODE | (XL, XB) | | |
| D911 | MA165 | DIODE | FUSES | | |
| D912 | MA165 | DIODE | F1 Δ | XBA2C04TB0 | FUSE . T0.4A250V |
| D913 | MA165 | DIODE | SWITCHES | | |
| D914 | MA165 | DIODE | S1 | SSH1196-1 | SW. POWER |
| D915 | MA165 | DIODE | S701 Δ | SSR187-1 | SW. VOLTAGE SELECTOR |
| D916 | MA165 | DIODE | (XA, XB) | | |
| D917 | MA165 | DIODE | S901 | SSG13 | SW. CH1 |
| D918 | MA165 | DIODE | S902 | SSG13 | SW. CH2 |
| D919 | MA165 | DIODE | S903 | SSG13 | SW. CH3 |
| D923 | MA165 | DIODE | S904 | SSG13 | SW. CH4 |
| D931 | MA165 | DIODE | S905 | SSG13 | SW. CH5 |
| D933 | MA165 | DIODE | S906 | SSG13 | SW. CH6 |
| (XB) | | | S907 | SSG13 | SW. CH7 |
| D934 | MA165 | DIODE | S908 | SSG13 | SW. CH8 |
| VARIABLE RESISTORS | | | S909 | SSG13 | SW. CH9 |
| VR301 | EVN04AA00B53 | MPX VCO | S910 | SSG13 | SW. CH0 |
| COILS AND TRANSFORMERS | | | S911 | SSG13 | SW. FM |
| L101 | RLQZPR47KT-Y | CHOKE COIL | S912 | SSG13 | SW. AM |
| L102 | RLQZPR1R2KT-Y | CHOKE COIL | S914 | SSG13 | SW. MEMORY SET |
| L203 | ELEPK1R0MA | COIL | S915 | SSG13 | SW. FM MODE |
| L204 | ELEPK1R0MA | COIL | S916 | SSG13 | SW. TUNING(DOWN) |
| L321 | SLM1B9-P | MPX COIL | S917 | SSG13 | SW. TUNING(UP) |

| Ref. No. | Part No. | Description | Ref. No. | Part No. | Description |
|---------------------|----------|-------------------------|--------------|-------------|--------------------------|
| CABINET AND CHASSIS | | | 13 | SGPT600-XA | BOTTOM BOARD |
| 1 | ⊗ | SGWT600-KE FRONT PANEL | (XA) | | |
| 1 | ⊗ | SGWT600-SE FRONT PANEL | 13 | SGPT600-XB | BOTTOM BOARD |
| 2 | ⊗ | SBC1005 BUTTON | (XB) | | |
| 2 | ⊗ | SBC1005-1 BUTTON | 13 | SGPT600-XL | BOTTOM BOARD |
| 3 | ⊗ | SBC943-4 BUTTON | (XL) | | |
| 3 | ⊗ | SBC943-6 BUTTON | 13-1 | SKL297-1 | LEG.CASTER |
| 6 | | SHR415 LOCK PIN | 13-2 | SMX342 | SHIELD SPACER |
| 8 | ⊗ | SGXT600-KE PANEL | 14 | 1N031441P | DIODE, GAASP |
| 8 | ⊗ | SGXT600-SE PANEL | 15 | ⊗ | SBC666-5 BUTTON, POWER |
| 8-1 | ⊗ | SGU594A SHIELD PLATE | 15 | ⊗ | SBC666 BUTTON, POWER |
| 8-1 | ⊗ | SGU594B SHIELD PLATE | 16 | △ | SJS9231-1B AC INLET |
| 8-2 | ⊗ | SGX9042A ORNAMENT | (EG, E1) | | |
| 8-2 | ⊗ | SGX9042-1A ORNAMENT | 16 | △ | SJS9236 AC INLET |
| 9 | ⊗ | SBC1006 BUTTON | (EX, EH, XA) | | |
| 9 | ⊗ | SBC1006-1 BUTTON | (XL, XB) | | |
| 10 | ⊗ | SKC1331BB CABINET | 17 | SJS9231A | AC INLET COVER |
| 10 | ⊗ | SKC1331S CABINET | (EG, E1) | | |
| 11 | | SJF8305N TERMINAL PLATE | 18 | SJS9330B | AC OUTLET |
| (EX, EH, EG) | | | (XA) | | |
| 11 | | SJF8402N TERMINAL PLATE | 19 | SJS9330A | OUTLET COVER |
| (E1) | | | 19 | SJT347 | FUSE HOLDER |
| (XA, XL, XB) | | | 25 | SJF3250 | TERMINAL BOARD |
| 12 | | SHE170-1 SPACER | 26 | SHR9855 | HOLDER |
| 13 | | SGPT600-EG BOTTOM BOARD | 28 | XTBS3*8JFZ1 | SCREW |
| (EG) | | | 29 | XTBS3*12F1 | SCREW |
| 13 | | SGPT600-EH BOTTOM BOARD | 30 | ⊗ | SNE2129-3 SCREW |
| (EH) | | | 30 | ⊗ | SNE2129-2 ORNAMENT SCREW |
| 13 | | SGPT600-E1 BOTTOM BOARD | 31 | SUS867 | SPRING |
| (E1) | | | (EG, E1) | | |
| 13 | | SGPT600-EK BOTTOM BOARD | 32 | SHG1613 | RUBBER PARTS |
| (EX) | | | 33 | ⊗ | XTB3*12F SCREW |
| | | | 34 | SUS883 | COIL SPRING |
| | | | 35 | SNE55 | BRACKET |

| Ref. No. | Part No. | Description | Ref. No. | Part No. | Description |
|------------------|----------|----------------------|--------------|----------|-----------------------------|
| PACKING MATERIAL | | | ACCESSORIES | | |
| P1 | ⊗ | SPG6190 PACKING CASE | A1 | △ | RJP120ZBS-H AC PLUG ADAPTOR |
| (EX, EH, XA) | | | (XA, XB) | | |
| (EG, XB) | | | A2 | | GJP2249-1 OUTPUT CORD |
| P1 | ⊗ | SPG6193 PACKING CASE | A3 | | SSA263M FM ANTENNA |
| (E1) | | | (XA, XL, XB) | | |
| P1 | ⊗ | SPG6191 PACKING CASE | A3 | | SSA270M FM ANTENNA |
| (EX, EH, XA) | | | (EX, EH, EG) | | |
| (EG) | | | (E1) | | |
| P1 | ⊗ | SPG6192 PACKING CASE | A4 | | SPF15 PROTECTION BAG |
| (XL) | | | A5 | | SPB1139-1 AM LOOP ANTENNA |
| P2 | | SPS4584 CUSHION, PAD | A6 | | SQF13139 INSTRUCTION BOOK |
| (EX, EH, XA) | | | (EX, EH) | | |
| (EG, E1, XB) | | | A6 | | SQF13140 INSTRUCTION BOOK |
| P2 | | SPS4584-2 PAD | (XA) | | |
| (XL) | | | A6 | | SQF13141 INSTRUCTION BOOK |
| P3 | | SPS4585 PAD | (EG) | | |
| (EX, EH, XA) | | | A6 | | SQF13142 INSTRUCTION BOOK |
| (EG, E1, XB) | | | (XL) | | |
| P3 | | SPS4585-1 PAD | A6 | | SQF13143 INSTRUCTION BOOK |
| (XL) | | | (XB) | | |
| P4 | | SPS4552 PAD | A6 | | SQF13178 INSTRUCTION BOOK |
| | | | (E1) | | |

DEUTSCH

■ MESSUNGEN UND JUSTIERUNGEN

UKW JUSTIERUNGEN

Einstellungen der Bedienelemente und zu verwendende Geräte.

- | | |
|---|--|
| <ul style="list-style-type: none"> ● UKW-Messender(UKW-MS) ● Stereo-Modulator ● Verzerrungs-Analysator ● Elektronische Gleichstrom-Voltmeter(EVM) | <ul style="list-style-type: none"> ● Frequenzzähler ● Drosselspule(100µH) ● Widerstand(100kΩ) |
|---|--|

Anmerkung: Für Z201, Z202, Z321, L321, L322 und L324 werden bereits justierte Ersatzteile geliefert. Die Kerne dieser Teile daher nicht drehen.

UKW-MONO-VERZERRUNGS-JUSTIERUNG

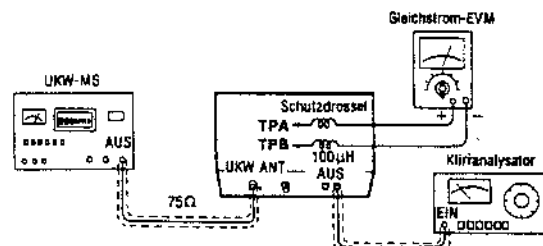
1. Der Testaufbau ist in der Abbildung gezeigt.
2. Stellen Sie die Einheit auf "FM(UKW)" Betrieb.
3. Die Radiofrequenzanzeige und den Messender auf 100.10MHz einstellen.
4. Den Kern von T201 so justieren, daß die im Signalzustand gemessene Spannung 0mV (0±20mV) im 300mV-Bereich beträgt.
5. T202 so justieren, daß der Verzerrungsfaktor des linken Kanals minimal wird.
6. Schritte 4 und 5 einige Male wiederholen.
7. Versichern Sie sich, daß die Verzerrungsfaktoren von Kanal L und Kanal R annähernd gleich sind und auf ein Minimum gehalten sind.

Anmerkung:

Für die Justierung ist ein Schraubendreher aus Kunststoff zu verwenden.

ZUSTAND DES UKW-MESSENDERS

- Modulation 100%
 Modulationsfrequenz 3kHz
 Ausgangspegel 66dB



TPA = TP201 , TPB = TP202

MPX-SGO-JUSTIERUNG

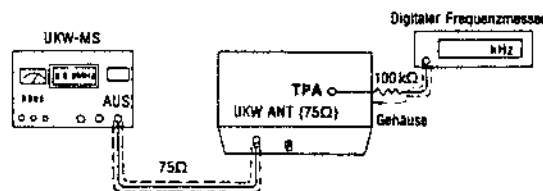
1. Der Testaufbau ist in der Abbildung gezeigt.
2. Den UKW-Betriebsart-Wahlshalter in die "on/auto" Position stellen.
3. Radio und Meßsender auf 100.10MHz einstellen.
4. VR301 auf 19kHz ± 30Hz auf der Frequenzzähleranzeige justieren.

● **VERWENDUNG EINES ALTERNATIVSYSTEMS**

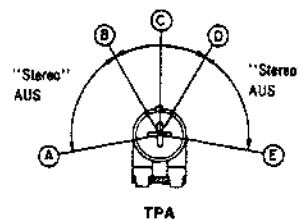
1. Stereosignal vom Meßsender eingeben oder eine Stereo-Sendung empfangen.
2. VR301 justieren, bis die Stereo-Anzeige aufleuchtet. Den Arm von VR301 mit Lack sichern, wie in der Abbildung gezeigt.

ZUSTAND DES UKW-MESSENDERS

- Modulation 100%
 Modulationsfrequenz 0kHz
 Ausgangspegel 66dB



TPA = TP301



- A ~ B, D ~ E "Stereo" AUS Stellung
- B ~ C "Stereo" EIN Stellung (Anzeigebeleuchtung)
- C Einstellpunkt des pilotschaltkreis'

TPA = VR301

UKW STEREO KLIRRFAKTOR-JUSTIERUNG

1. Der Testaufbau ist in der Abbildung gezeigt.
2. Stellen Sie die Einheit auf "FM(UKW)" Betrieb.
3. Die Radiofrequenzanzeige und den Messender auf **100.10MHz** einstellen.
4. T1 so justieren, daß der Verzerrungsfaktor des linken Kanals minimal wird.
5. Überprüfen, daß die Verzerrungsfaktoren des linken und rechten Kanals fast gleich sind.

Anmerkung:

Für die Justierung ist ein Schraubendreher aus Kunststoff zu verwenden.

ZUSTAND DES UKW-MESSENDERS

Modulation "L" oder "R" Betriebsart
90%, Pilotsignal 10%
Modulationsfrequenz 1kHz (Pilot 19kHz)
Ausgangspegel 66dB

