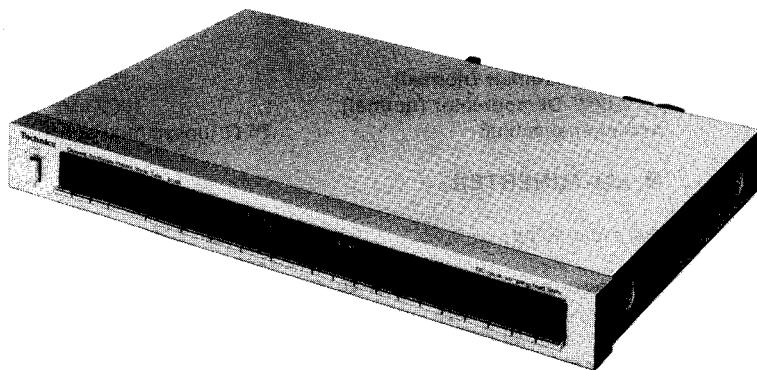


Service Manual

QUARTZ

Synthesizer FM/AM Stereo Tuner

**ST-S6**[E], [EK], [EG], [EF],
[EH], [EB], [EA]**ST-S6(K)**

[EX], [EG], [EH]

* The cabinet and front panel are available in black color and silver types.

* The black type model is provided with (K) in the Service Manual.

English

Areas

- * [E] and [EX] are available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [EG] is available in F.R. Germany.
- * [EF] is available in France.
- * [EH] is available in Holland.
- * [EB] is available in Belgium.
- * [EA] is available in Austria.

Specifications

(Specifications are subject to change without notice for further improvement.)

(DIN 45 500)**■ FM TUNER SECTION**

Frequency range	87.50~108.02 MHz
Sensitivity	0.95 µV (IHF, usable)
S/N 30 dB	0.95 µV (75Ω)
S/N 26 dB	0.85 µV (75Ω)
S/N 20 dB	0.75 µV (75Ω)
IHF 46 dB stereo quieting sensitivity	20 µV/75Ω
Total harmonic distortion	
MONO (normal)	0.04%
STEREO (normal)	0.06%
S/N	
MONO	72 dB (80 dB, IHF)
STEREO	67 dB (74 dB, IHF)
Frequency response	5 Hz~18 kHz, +0.2 dB~-0.5 dB
Alternate channel selectivity	
normal ±400 kHz	55 dB
super narrow ±200 kHz	25 dB
Capture ratio	1.0 dB
Image rejection at 98 MHz	80 dB
IF rejection at 98 MHz	110 dB
Spurious response rejection at 98 MHz	95 dB
AM suppression	55 dB
Stereo separation	
1 kHz	55 dB
10 kHz	40 dB
Carrier leak	
19 kHz	-65 dB (-70 dB, IHF)
38 kHz	-48 dB (-50 dB, IHF)

Channel balance (250 Hz~6,300 Hz)	±1.0 dB
Limiting point	0.75 µV
Bandwidth	
IF amplifier (normal)	180 kHz
FM demodulator (normal)	1000 kHz
Antenna terminals	75Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	522~1611 kHz (9 kHz-step) 530~1620 kHz (10 kHz-step)
Sensitivity (S/N 20 dB)	30 µV, 250 µV/m
Selectivity (±9 kHz)	55 dB
Image rejection at 999 kHz	55 dB
IF rejection at 999 kHz	45 dB

■ GENERAL

Output voltage	0.3V (0.6V, IHF)
Power consumption	9W
Power supply	AC 50 Hz/60 Hz, 110V/120V/220V/240V
Dimensions (W×H×D)	430 × 53 × 300 mm (16-15/16" × 2-3/32" × 11-13/16")
Weight	3.3 kg (7.3 lb.)

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

TECHNISCHE DATEN

(Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.)

(DIN 45 500)

■ UKW-TUNERTEIL

Wellenbereich	87,50 ~ 108,02 MHz
Eingangsempfindlichkeit	0,95 μ V (nutzbar nach IHF)
S/R 30 dB	0,95 μ V (75 Ω)
S/R 26 dB	0,85 μ V (75 Ω)
S/R 20 dB	0,75 μ V (75 Ω)
Stereoumschaltschwelle bei 46 dB nach IHF	20 μ V/75 Ω
Gesamtklirrfaktor	
Mono (normal)	0,04%
Stereo (normal)	0,06%
Geräuschabstand	
Mono	72 dB (80 dB nach IHF)
Stereo	67 dB (74 dB nach IHF)
Frequenzgang	5 Hz ~ 18 kHz (+0,2 dB ~ -0,5 dB)
Trennschärfe bei Störsender	
normal \pm 400 kHz	55 dB
super narrow \pm 200 kHz	25 dB
Einfangverhältnis	1,0 dB
Spiegelfrequenz-Dämpfung bei 98 MHz	80 dB
ZF-Dämpfung bei 98 MHz	110 dB
Ansprechdämpfung auf Nebenfrequenzen bei 98 MHz	95 dB
AM-Unterdrückung	55 dB
Übersprechdämpfung	
1 kHz	55 dB
10 kHz	40 dB
Trägerrest	
19 kHz	-65 dB (-70 dB nach IHF)
38 kHz	-48 dB (-50 dB nach IHF)

Kanalabweichung (250 Hz ~ 6300 Hz)	\pm 1,0 dB
Begrenzereinsatz	0,75 μ V
Bandbreite	
ZF-Verstärker (normal)	180 kHz
UKW-Demodulator (normal)	1000 kHz
Antennenanschluß	75 Ω (unsymmetrisch)

■ AM-TUNERTEIL

Wellenbereiche	522 ~ 1611 kHz (9-kHz-Schritte)
530~1620 kHz (10-kHz Schritte)	
Eingangsempfindlichkeit (S/R 20 dB)	30 μ V, 250 μ V/m
Trennschärfe (\pm9 kHz)	55 dB
Spiegelfrequenz-Dämpfung bei 999 kHz	55 dB
ZF-Dämpfung bei 999 kHz	45 dB

■ ALLGEMEINE DATEN

Ausgangsspannung	0,3 V (0,6 V, IHF)
Leistungsaufnahme	9W
Netzspannung	
Wechselstrom 50 Hz/60 Hz, 110V/120V/220V/240V	
Abmessungen (BxHxT)	430 \times 53 \times 300 mm
Gewicht	3,3 kg

Français

CARACTERISTIQUES

(Sujet à changement sans préavis.)

(DIN 45 500)

■ SECTION SYNTONISATEUR FM

Gamme de fréquence	87,50~108,02 MHz
Sensibilité	0,95 μ V (IHF utilisable)
S/B 30 dB	0,95 μ V (75 Ω)
S/B 26 dB	0,85 μ V (75 Ω)
S/B 20 dB	0,75 μ V (75 Ω)
Sensibilité stéréo au seuil de 46 dB, IHF	20 μ V/75 Ω
Distorsion harmonique totale	
MONO (normal)	0,04%
STEREO (normal)	0,06%
Signal/Bruit	
MONO	72 dB (80 dB, IHF)
STEREO	67 dB (74 dB, IHF)
Réponse de fréquence	5 Hz~18 kHz, +0,2 dB~ -0,5 dB
Sélectivité alternée par canal	
normal \pm 400 kHz	55 dB
super narrow \pm 200 kHz	25 dB
Taux de capture	1,0 dB
Rejection d'image à 98 MHz	80 dB
Rejection FI à 98 MHz	110 dB
Rejection de réponse parasite à 98 MHz	95 dB
Suppression AM	55 dB
Séparation stéréophonique	
1 kHz	55 dB
10 kHz	40 dB
Fuite de porteuse	
19 kHz	-65 dB (-70 dB, IHF)
38 kHz	-48 dB (-50 dB, IHF)

Equilibrage de canaux (250 Hz~6,300 Hz)	\pm 1,0 dB
Point de limite	0,75 μ V
Largeur de bande	
Amplificateur FI (normal)	180 kHz
Démodulateur FM (normal)	1000 kHz
Bornes d'antenne	75 Ω (asymétrique)

■ SECTION SYNTONISATEUR AM

Gamme de fréquence	522~1611 kHz (9 kHz par palier)
530~1620 kHz (10 kHz par palier)	
Sensibilité (S/B 20 dB)	30 μ V, 250 μ V/m
Sélectivité (\pm9 kHz)	55 dB
Réjection d'image à 999 kHz	55 dB
Réjection FI à 999 kHz	45 dB

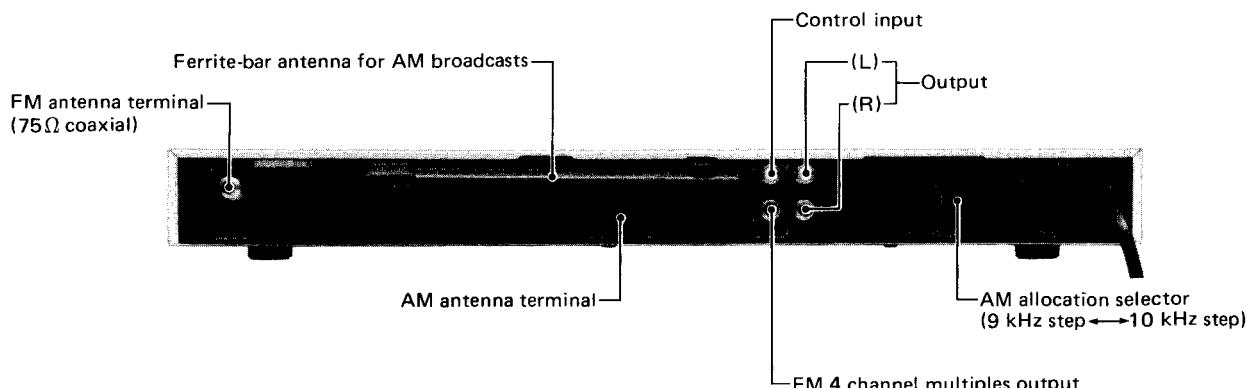
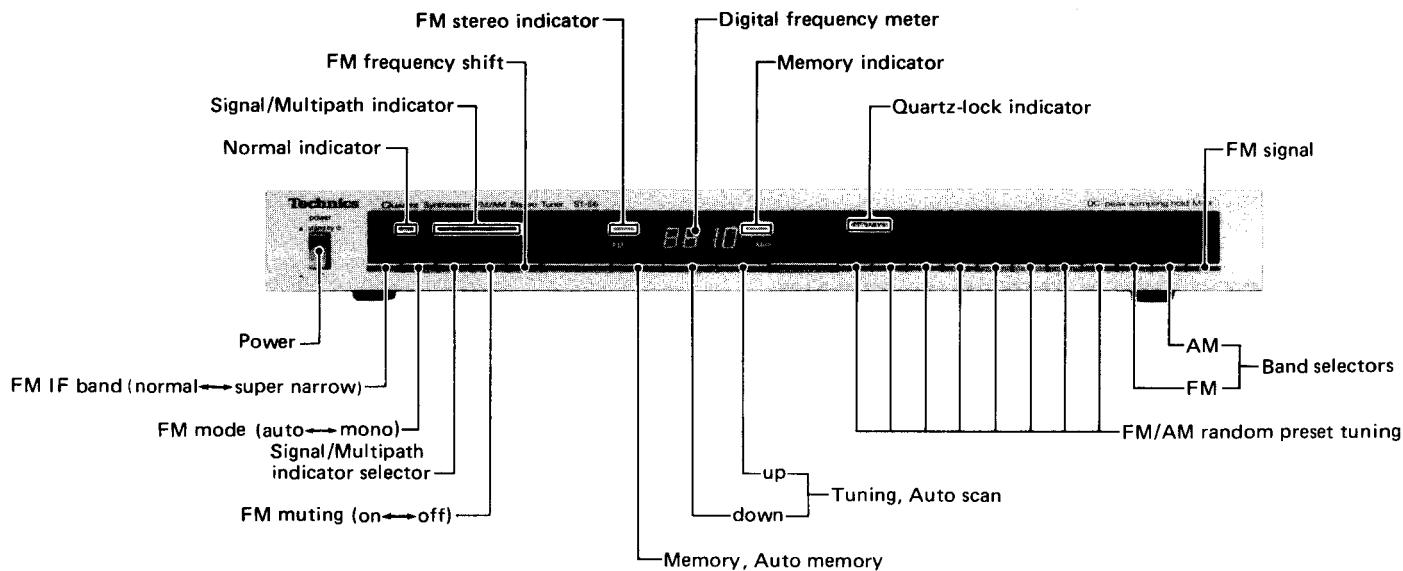
■ DIVERS

Tension de sortie	0,3 V (0,6V, IHF)
Consommation	9W
Alimentation	CA 50 Hz/60 Hz, 110V/120V/220V/240V
Dimensions (LxHxPr)	430 \times 53 \times 300 mm
Poids	3,3 kg

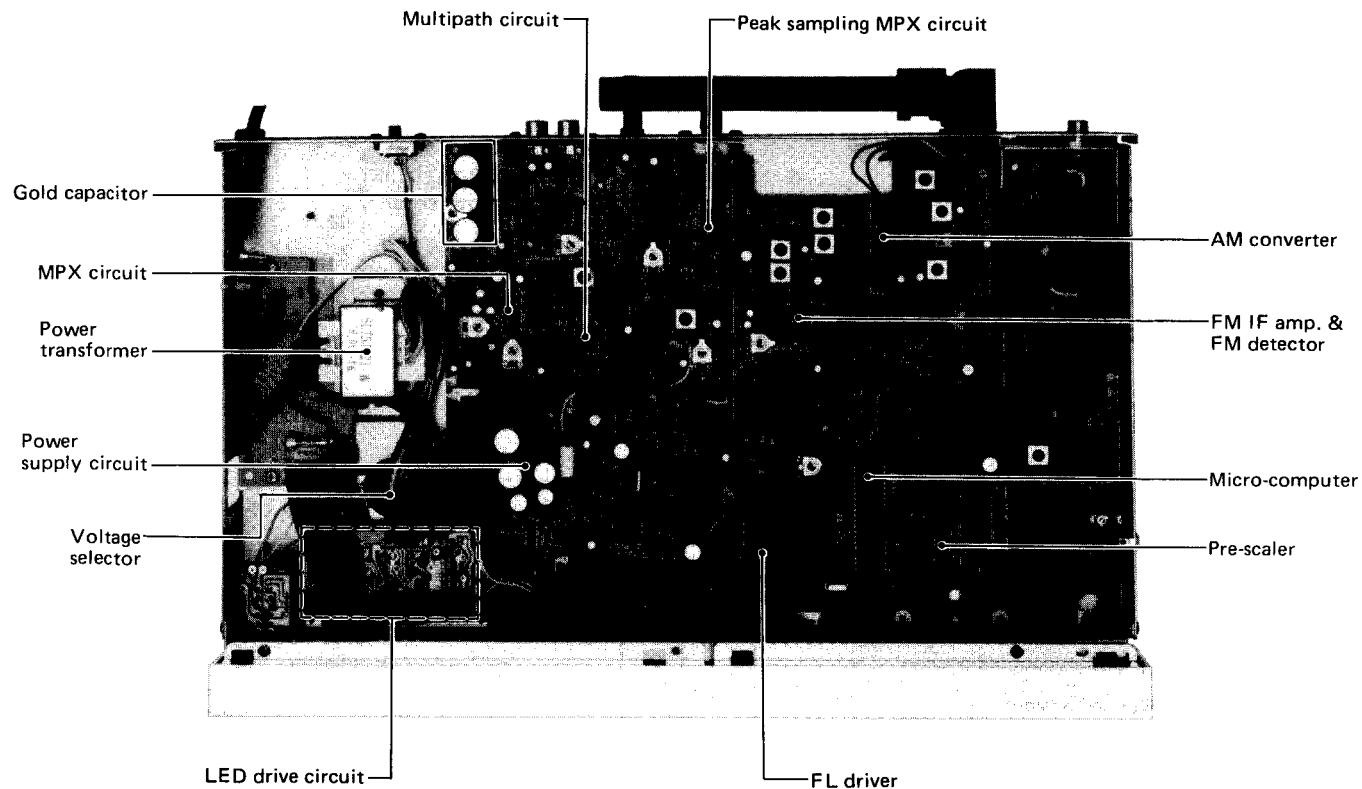
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■ LOCATION OF CONTROLS



● Voltage adjust switch located at bottom



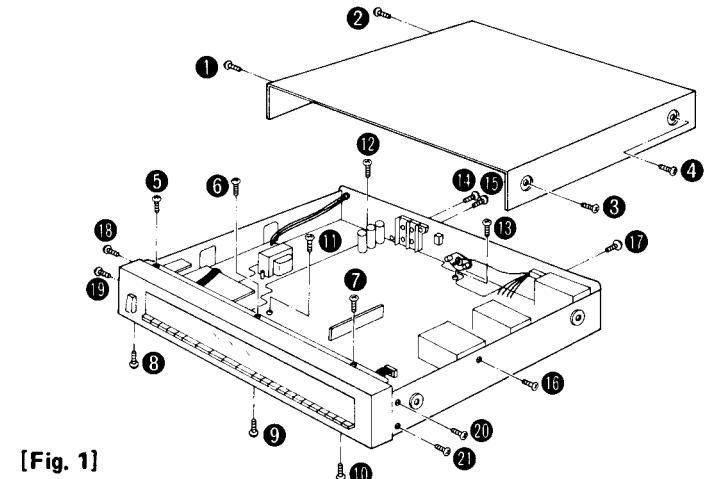
■ DISASSEMBLY INSTRUCTIONS

● How to remove the cabinet

1. Remove the 4 setscrews (Fig. 1 : ① ~ ④) of the cabinet.
2. Remove the cabinet.

● How to remove the front panel

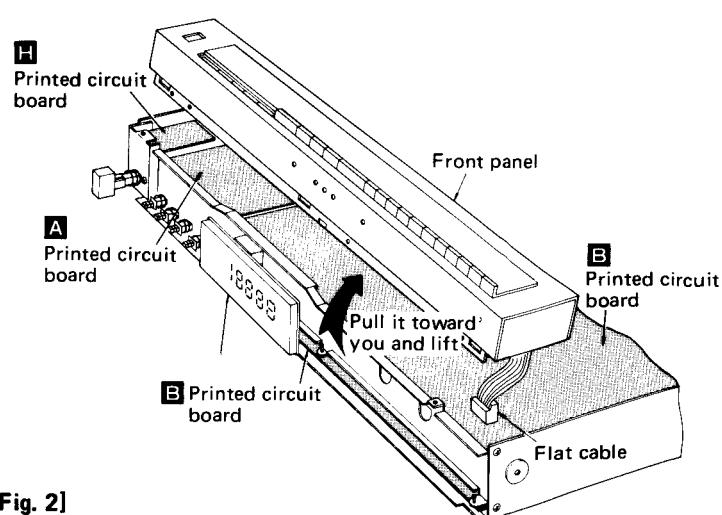
1. Remove the cabinet.
2. Remove the 6 setscrews (Fig. 1 : ⑤ ~ ⑩) of the front panel.
3. Lift the front panel in the direction of the arrow in the Fig. 2 to detach it from the chassis.



● How to remove the printed circuit board

B printed circuit board (FM/AM IF-RF circuit, FM MPX circuit, FL display circuit and power supply circuit.)

1. Remove the cabinet. (Refer to "How to remove the cabinet.")
2. Remove the 7 setscrews (Fig. 1 : ⑪ ~ ⑯) of the chassis.
3. Remove the 4 setscrews (Fig. 1 : ⑰ ~ ㉑) of the front panel.
4. Remove the printed circuit board from the chassis along with the front panel. Reise it and check.



D printed circuit board (Preset tuning switch circuit.)

1. Remove the cabinet and front panel. (Refer to "How to remove the cabinet" and "How to remove the front panel.")
2. Pull out the flat cable in Fig. 2 and turn over the front panel as shown in Fig. 3.
3. Remove the 2 setscrews (Fig. 3 : ②2, ②3), then remove the printed circuit board the direction of the arrow **A** in the Fig. 3.

F printed circuit board. (Memory and tuning switch circuit.)

1. Remove the 3 claws used to secure the printed circuit board by using a screwdriver. (Refer to Fig. 3)

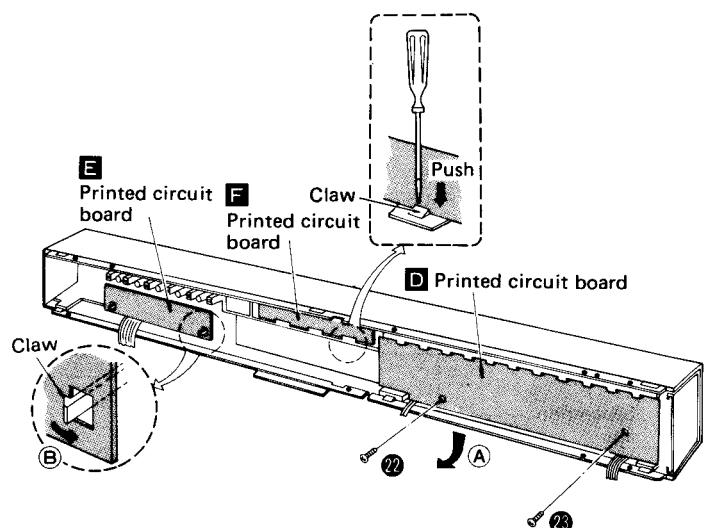
E printed circuit board. (Signal/Multipath indicator circuit.)

1. Open the 2 claws used to secure the printed circuit board in the direction of arrow **B**. (Refer to Fig. 3)

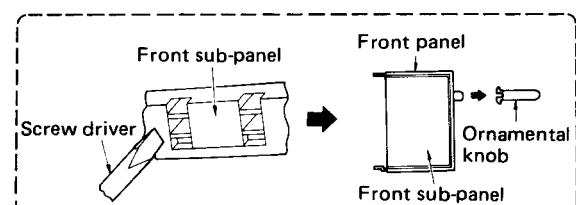
● How to remove the front sub-panel

1. Remove the cabinet and front panel. (Refer to "How to remove the cabinet" and "How to remove the front panel.")
2. Remove the **D**, **E** and **F** printed circuit board. (Refer to "How to remove the printed circuit board.")
3. Push the two ornamental knobs to remove them from the front sub-panel. (See Fig. 4)
4. Remove the 1 setscrew (Fig. 4 : ④1) of the front panel.
5. The claws projected (at 6 portions) from the front sub-panel are engaged with the front panel. Disengage the claws from by screwdriver or the like to remove the front sub-panel. (See Fig. 5)

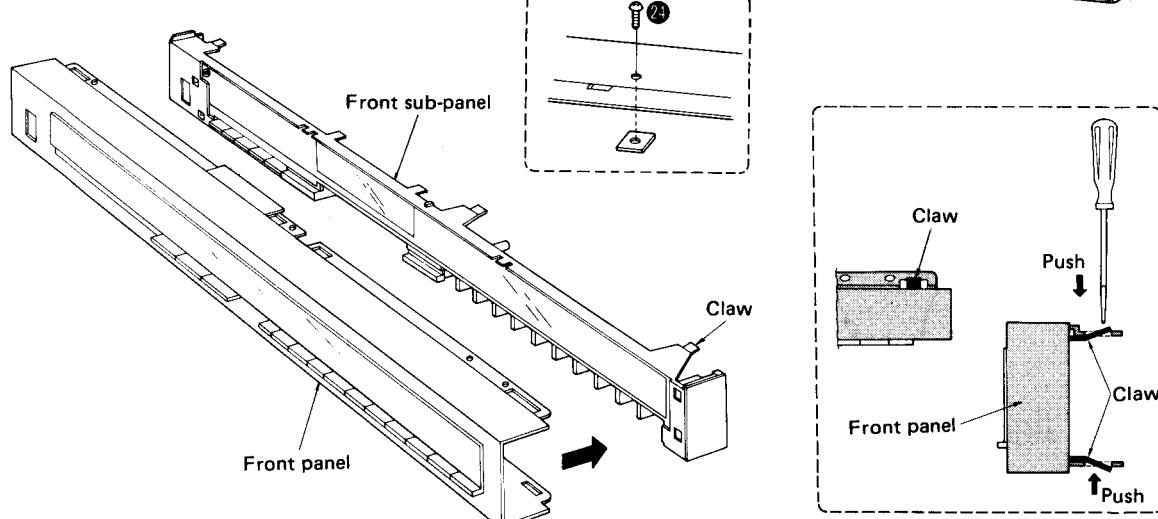
Note: When mounting the ornamental knob, install the front sub-panel on the front panel, and then insert the knobs and secure them with board.



[Fig. 3]



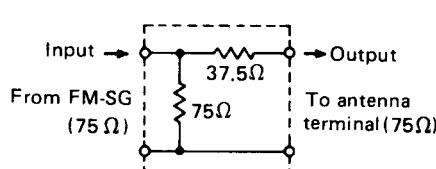
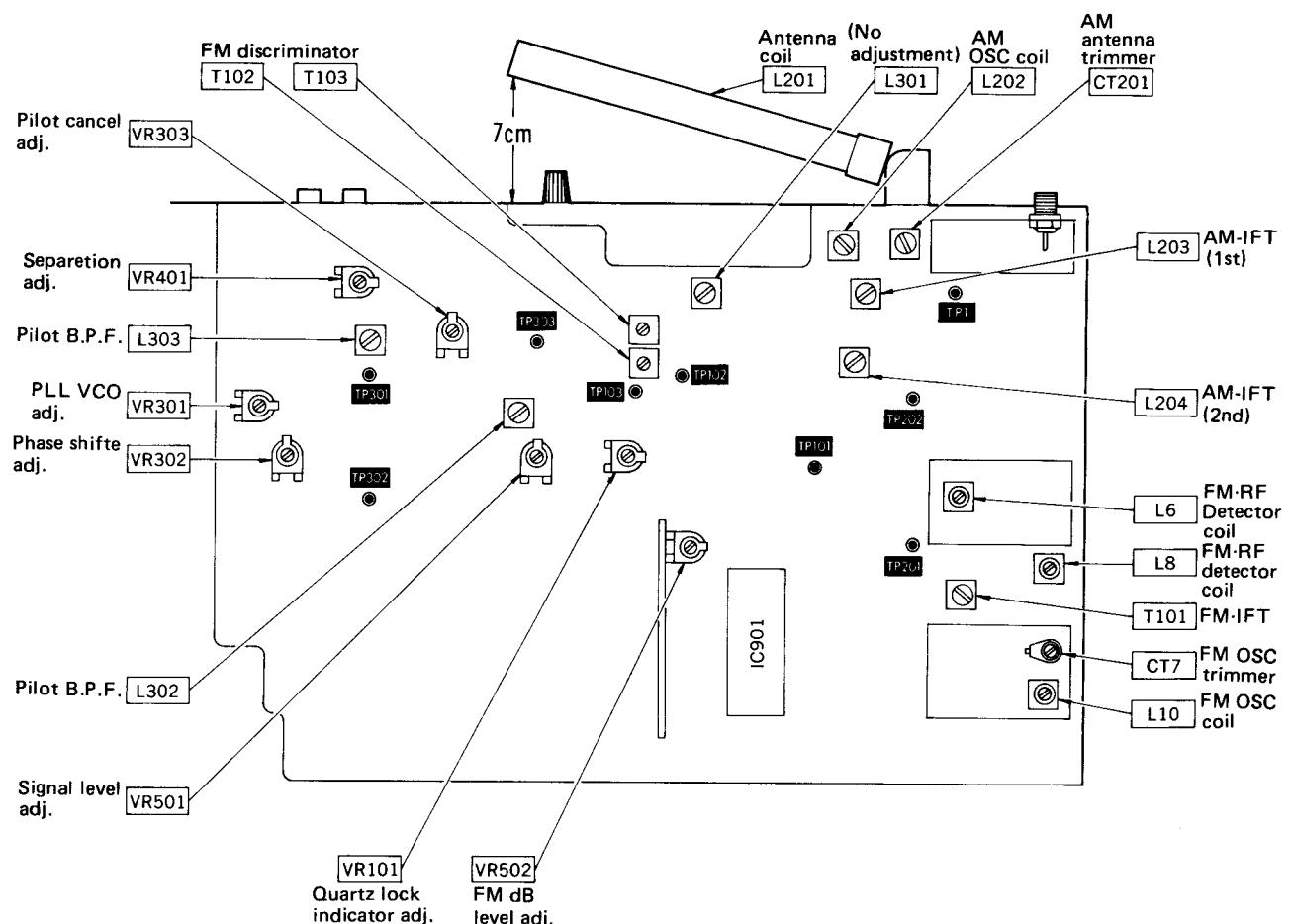
[Fig. 4]



[Fig. 5]

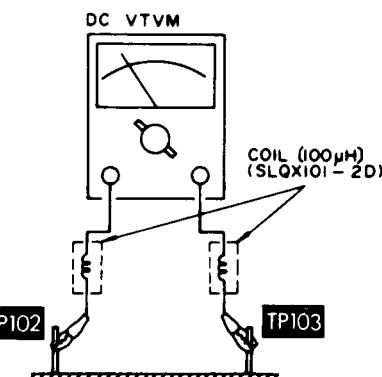
■ MEASUREMENTS AND ADJUSTMENTS

- Adjustment points

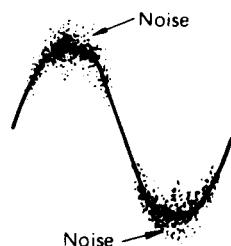


(75Ω FM dummy antenna)

[Fig. 6]
(Abb. 6)



[Fig. 7]
(Abb. 7)



AF output wave form

[Fig. 8]
(Abb. 8)

(Pilot signal cancel)

[Fig. 9]
(Abb. 9)



MEASUREMENTS AND ADJUSTMENTS English

- L301 have been already adjustment, and require no adjustment.
- Set AM allocation selector to "9kHz" position.

AM TUNER ADJUSTMENT

Setting and Equipment used

- AC and DC electronic voltmeters (VTVM)
- AM signal generator (AM-SG)
- Maintain line voltage at rated voltage.
- Output of signal generator should be no higher than necessary to obtain an output reading.

- Adjust the antenna coil (L201) position by using a screwdriver so that it is at approximately 7 cm degrees to the rear panel.
- Use a non-metal screwdriver for the adjustment.
- Set broadcast selector to "AM" position.

Step No.	AM-IF ADJUSTMENT					
	AM SIGNAL GENERATOR		DISPLAY FREQUENCY	PREPARATIONS	PARTS ADJUSTED	ADJUSTING PROCEDURE
CONNECTION	FREQUENCY					
AM-RF ADJUSTMENT						
1	Connect AM-SG to AM antenna terminal through 200pF capacitor. Common to chassis. (Powerful input)	450 kHz (30% Mod. with 400 Hz)	Frequency of non-interference	Connect AC VTVM or scope to "OUTPUT" terminals of the set.	T203 (1st IFT) T204 (2nd IFT)	Adjust the input frequency and adjustment points so that the output becomes maximum.
2	Connect AM-SG to AM antenna terminal through 200pF capacitor. Common to chassis. (Weak input)	522 kHz (30% Mod. with 400 Hz)	522 kHz	Connect DC VTVM to TP201 terminal.	L202 (OSC Coil)	Adjust L202 to $1.0V \pm 0.05V$.
3		612 kHz (30% Mod. with 400 Hz)	612 kHz	Connect AC VTVM to scope to "OUTPUT" terminals of the set.	L201 (ANT Coil)	1. Adjust for maximum output. 2. Adjust ferrite core of L201 by screwdriver.
4		1503 kHz 30% Mod. with 400 Hz	1503 kHz	Connect AC VTVM to scope to "OUTPUT" terminal of the set.	CT201 (ANT Trimmer)	1. Adjust for maximum output. 2. Repeat steps (3) and (4) until the frequency correctly matches the dial display.

FM TUNER ADJUSTMENT

Equipment used

- FM signal generator (FM-SG)
- Stereo modulator
- Distortion analyser
- Oscilloscope
- AC and DC electronic voltmeters (VTVM).
- Frequency counter (19 kHz and 108 MHz measurable).
- FM 75Ω dummy antenna (Fig. 6).

Preparation of FM signal generator (FM-SG)

- Connect stereo modulator to FM-SG.
- Apply SG output to antenna terminal of the set through 75Ω FM dummy antenna.
- The standard input of the set is 60 dB (1mV), 400 Hz 100% modulation (Because of using dummy antenna, SG output must be 12 dB plus (IHF). That is, when input is 60 dB, SG output is to be 72 dB).

Setting

- Set IF band selector to "normal" position
- Set broadcast selector to "FM" position.
- FM mode switch to "auto" position.
- FM muting and FM tuning level switch to "off/standard" position.
- Signal/Multipath indicator selector (display) switch to "signal" position.

Step No.	FM-IF ADJUSTMENT					
	FM SIGNAL GENERATOR		DISPLAY FREQUENCY	PREPARATIONS	PARTS ADJUSTED	ADJUSTING PROCEDURE
CONNECTION	FREQUENCY					
FM-RF ADJUSTMENT						
5	—	No-Signal	100.1 MHz	Connect DC VTVM between TP102 and TP103 through choke coil. (Refer to Fig. 7)	T102 (Discri. IFT)	Adjust T102 core so that voltage measured in signal mode is 0V in 300mV range.
6	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna.	87.9 MHz	87.9 MHz	Connect DC VTVM to TP1 terminal.	L10 (OSC Coil)	Adjust L10 (OSC Coil) to $4.1V \pm 0.1V$.
7		90.1 MHz (100% Mod. with 400 Hz) weak input	90.1 MHz	Connect scope to "OUTPUT" terminals of the set.	L6 (RF DET Coil 1st) L8 (RF DET Coil 2nd) L1 (ANT Coil)	1. Add weak input so that noise is included in the output wave from. 2. Make the adjustment so that the output wave form is vertically symmetrical. (Refer to Fig. 8) 3. Repeat the steps (7) and (8) until the frequency correctly matches the broadcasts frequency display.
8		106.1 MHz (100% Mod. with 400 Hz)	106.1 MHz	Connect scope to "OUTPUT" terminals of the set.	CT7 (OSC Trimmer)	

Step No.	FM SIGNAL GENERATOR		DISPLAY FREQUENCY	PREPARATIONS	PARTS ADJUSTED	ADJUSTING PROCEDURE
	CONNECTION	FREQUENCY				
FM MONO DISTORTION ADJUSTMENT						
9	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna.	100.1 MHz (100% Mod. with 400 Hz)	100.1 MHz	*Connect DC VTVM between TP102 and TP103 through choke coil. (Refer to Fig. 7) *Connect distortion analyser to "OUTPUT" terminal of the set.	T102 (Discr. IFT) T103 (Discr. IFT)	<ol style="list-style-type: none"> 1. Adjust T102 core so that voltage measured in signal mode is 0V in 300mV range. 2. Adjust T103 core so that distortion of right and left channels are minimized.
FM MPX PILOT (VCO) ADJUSTMENT						
10	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna, (Monaural signal)	100.1 MHz (Non-modulated)	100.1 MHz	Connect frequency counter (through $100k\Omega$) to TP302 terminal.	VR301 (VCO)	<ol style="list-style-type: none"> 1. Set the FM muting/FM mode switch to "on/auto". 2. Adjust VR 301 to $19\text{ kHz} \pm 30\text{ Hz}$.
PILOT SIGNAL BAND PASS FILTER ADJUSTMENT						
11	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna, (Apply 60 dB, pilot 10% Mod. stereo signal)	100.1 MHz (Non-modulated)	100.1 MHz	Connect AC VTVM to TP301 terminal.	L302 (BPF) L303 (BPF)	<ol style="list-style-type: none"> 1. Set the FM mode switch to "auto". 2. Adjust for maximum output.
PILOT CANCEL ADJUSTMENT						
12	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna, (Apply 60 dB, pilot 10% Mod. stereo signal)	100.1 MHz (Non-modulated)	100.1 MHz	Connect scope to TP303 terminal.	L303 (BPF) VR303 (Pilot cancel)	<ol style="list-style-type: none"> 1. Set the FM mode switch to "auto". 2. Repeatedly adjust VR303 and L303 so that the waveform is as shown in Fig. 9. When the output of TP303 is minimum.
PHASE SHIFTER ADJUSTMENT						
13	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna, (Apply 60dB, pilot 10% Mod. stereo signal)	100.1 MHz (100% Mod. with 400 Hz)	100.1 MHz	Connect AC VTVM to left ch. "OUTPUT" terminal.	VR302 (Phase shifter)	<ol style="list-style-type: none"> 1. Set the FM mode switch to "auto". 2. Adjust for maximum output.
STEREO DISTORTION ADJUSTMENT						
14	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna, (Pilot 10% Mod. stereo signal)	100.1 MHz (100% Mod. with 400 Hz) (L mode)	100.1 MHz	Connect distortion analyser to "OUTPUT" terminals of the set through low-pass filter. ($f_c = 15\text{ kHz} \sim 19\text{ kHz}$)	T101 (IFT)	<ol style="list-style-type: none"> 1. Set the FM muting/FM mode switch to "on/auto". 2. Re-adjust T101 within $\pm 90^\circ$ from the preset core position so that the distortion of L ch is minimized. 3. Re-check the steps 5, 7, 8 and 9.
SEPARATION ADJUSTMENT						
15	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna, (Pilot 10% Mod. stereo signal)	100.1 MHz (100% Mod. with 1 kHz) (L or R mode)	100.1 MHz	Connect AC VTVM to "OUTPUT" terminals of the set through low-pass filter. ($f_c = 15\text{ kHz} \sim 19\text{ kHz}$)	VR401 (Separation)	<ol style="list-style-type: none"> 1. Set the FM muting/FM mode switch to "on/auto". 2. Adjust VR401 so that R output is minimized when stereo modulator is in L (L ch modulation) mode and that L output is minimized in R mode.
SIGNAL METER LED (Light Emitting Diode) INDICATOR ADJUSTMENT						
16	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna, (Apply 42 dB to antenna terminal)	100.1 MHz (100% Mod. with 400 Hz)	100.1 MHz	Signal meter LED	VR501 (meter level)	Adjust VR501 while observing the signal meter LED so that the indicator at 5 th is about to turn on.

FM SIGNAL GENERATOR		DISPLAY FREQUENCY	PREPARATIONS	PARTS ADJUSTED	ADJUSTING PROCEDURE	
CONNECTION	FREQUENCY	FM SIGNAL-STRENGTH INDICATOR ADJUSTMENT				
17	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna. (Apply 54 dB to antenna terminal)	100.1 MHz (100% Mod. with 400 Hz)	100.1 MHz	—	VR502	<ol style="list-style-type: none"> Push the FM signal level indicator button switch, and adjust VR502 so that 54 dB is displayed. Decrease the input down to 30 dB and then slowly increase up to 54 dB. Make sure that the display is then 56 dB. If 54 dB is not displayed, re-adjust it.
FM QUARTZ LOCK INDICATOR ADJUSTMENT						
18	Connect FM-SG to FM antenna terminal through 75Ω FM dummy antenna. (Apply 6.0 dB to antenna terminal)	100.1 MHz (100% Mod. with 400 Hz)	100.1 MHz	—	VR101	<ol style="list-style-type: none"> Set the FM mode switch to "off". First rotate VR101 anticlockwise, and then slowly clockwise so that the quartz lock indicator lights up.

EINSTELLUNGSAUWEISUNGEN Deutsch

- Die Spule (L301) ist bereits justiert worden und bedarf Kneiner weiteren Justierung.
- AM Wellenverteilungs-Wahlschalter auf Position "9kHz" stellen.

AM (MW)-EINSTELLUNG

Stellungen und zu benutzende Geräte					
AM (MW)-MESSENDER		ANZEIGE-FREQUENZ DURCH VOR-EINSTELLUNG	VORBEREITUNG	ABGLEICHSPUNKTE	ABGLEICHSVFAHREN
ANSCHLUSS	FREQUENZ				
Nr. AM (MW)-ZF-ABGLEICH					
1	Einen MW-Signalgenerator über einen 200pF Kondensator mit dem MW-Antenneneingang verbinden. Die gemeinsame Leitung mit dem Chassis verbinden. (Starker Eingang)	450 kHz (400 Hz Modulat., 30%)	Kein Empfang	Oszilloskop oder Wechselstrom-Voltmeter über den Ausgang "OUTPUT". T203 (1. IFT) T204 (2. IFT)	Die Eingangsfrequenz und die Einstellungspunkte so justieren, daß der Ausgang den maximalen Wert erreicht.
AM (MW)-HF-ABGLEICH					
2	Einen MW-Signalgenerator über einen 200pF Kondensator mit dem MW-Antenneneingang verbinden. Die gemeinsame Leitung mit dem Chassis verbinden. (Schwacher Eingang)	522 kHz (400 Hz Modulat., 30%)	522 kHz	Zwischen TP201 und Erdung Gleichstrom-Voltmeter schließen. L202 (Osc. Spule)	L202 so justieren, daß die vom Gleichstrom-Voltmeter gemessene, ($1.0V \pm 0.05V$)
3		612 kHz (400 Hz Modulat., 30%)	612 kHz	Oszilloskop oder Wechselstrom-Voltmeter über den Ausgang "OUTPUT" schließen. L201 (Ant. Spule)	<ol style="list-style-type: none"> Auf max. Ausgang abgleichen. Den Ferritkern von L201 mit einem Schraubendreher justieren.
4		1503 kHz (400 Hz Modulat., 30%)	1503 kHz	Oszilloskop oder Wechselstrom-Voltmeter über den Ausgang "OUTPUT" schließen. CT201 (Ant. Trimmer)	<ol style="list-style-type: none"> Auf max. Ausgang abgleichen. Die Schritte (3) und (4) wiederholen, bis die Frequenz genau mit der Skalenanzeige übereinstimmt.

FM (UKW)-EINSTELLUNG

Verwendete Einrichtungen	Vorbereitung AM UKW-Messender (FM-SG)
<ol style="list-style-type: none"> UKW-Messender (FM-SG) Stereo-Modulator (oder Trennmesser) Verzerrungsmesser Oszilloskop Elektronische Voltmeter für Wechsel-und Gleichstrom (VTVM) Signalfrequenzmesser (meßbar für 19 kHz und 108 MHz) UKW 75-Ohm Kunstantenne (Abb. 6) 	<ol style="list-style-type: none"> Stereo-Modulator an FM-SG anschließen. SG-Ausgang über 75Ω UKW Kunstantenne an den Antennen-eingang des Gerätes schließen. Der normale Eingang des Gerätes betrat 60 dB (1mV), 400 Hz 100% Modulation. (Wegen Verwendung der Kunstantenne muß der Signalausgang 12 dB plus (IHF) sein: d.h. beim Eingang von 60 dB soll der Signalausgang 72 dB sein.)

Zustand des Gerätes						
Nr	FM (UKW) MESSENDER		ANZEIGE-FREQUENZ DURCH VOR-EINSTELLUNG	VORBEREITUNG	ABGLEICHSPUNKTE	ABGLEICHSPUNKTE
	ANSCHLUSS	FREQUENZ				
UKW-ZF-ABGLEICH						
5	—	Kein Signal	100.1 MHz	Ein Gleichstromröhrenvoltmeter zwischen TP102 und TP103 über eine Drosselspule verbinden. (Siehe Abb. 7)	T102 (Diskriminator FT)	Den Kern von T102 so justieren, daß die gemessene Spannung im signallosen Modus OV im 300mV Bereich beträgt.
UKW-HF-ABGLEICH						
6		87.9 MHz	87.9 MHz	Zwischen TP1 und Erdung Gleichstrom-Voltmeter schließen.	L10 (Osc. Spule)	L10 so justieren, daß die vom Gleichstrom-Voltmeter gemessene Spannung $4.1V \pm 0.1V$ beträgt.
7	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen.	90.1 MHz (400 Hz Modulat., 100%)	90.1 MHz	Oszilloskop über den Ausgang "OUTPUT" schließen.	L6 (HF Det. Spule 1) L8 (HF Det. Spule 2) L1 (Ant. Spule)	1. Einen schwachen Eingang geben, bei dem Geräusch in der Ausgangswellenform enthalten wird. 2. So einstellen, daß die Ausgangswellenform vertikal symmetrisch wird. (Abb. 8) 3. Die Einstellung von (7) und (8) wiederholen, bis die Frequenz mit der Skala übereinstimmt.
8		106.1 MHz (400 Hz Modulat., 100%)	106.1 MHz	Oszilloskop über den Ausgang "OUTPUT" schließen.	CT7 (Osc. Trimmer)	
ABGLEICH AUF MIN. VERZERRUNG IN STELLUNG UKW-MONO						
9	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen.	100.1 MHz (400 Hz Modulat., 100%)	100.1 MHz	* Ein Gleichstromröhrenvoltmeter zwischen TP102 und TP103 über eine Drosselspule verbinden. * Verzerrungsmesser an rechten und linken Kanäle Ausgangsklemme "OUTPUT"	T102 (Diskriminator FT) T103 (Diskriminator FT)	1. Den Kern von T102 so justieren, daß die gemessene Spannung im signallosen Modus OV im 300mV Bereich beträgt. 2. T103 Kern für minimale Verzerrung der rechten und linken Kanäle justieren.
UKW-MPX-PILOTABGLEICH (VCO)						
10	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen. (Mono-Signal)	100.1 MHz (Unmodulierte Welle)	100.1 MHz	Signal frequenzmesser an TP302 schließen. (durch $100\text{k}\Omega$)	VR301 (VCO)	1. Den UKW Muting/UKW-Betriebsartschalter auf "on/auto" einstellen. 2. VR301 so abgleichen, daß Ausgangsfrequenz von TP302 $19\text{ kHz} \pm 30\text{ Hz}$.
KONTROLL-BANDPASSFILTER-ABGLEICH						
11	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen. (60 dB, pilot 10% moduliertes stereosignal anlegen.)	100.1 MHz (Unmodulierte Welle)	100.1 MHz	Wechselstrom Röhrenvoltmeter an Klemmen TP301 anschließen.	L302 L303	1. Den UKW Betriebsartschalter auf "auto" einstellen. 2. Auf max. Ausgang abgleichen.
KONTROLL-AUFOLOSEN-ABGLEICH						
12	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen. (60 dB, pilot 10% moduliertes stereosignal anlegen.)	100.1 MHz (Unmodulierte Welle)	100.1 MHz	Oszillograph an Klemmen TP303 anschließen.	L303 VR303	1. Den UKW Betriebsartschalter auf "auto" einstellen. 2. VR303 und L303 wiederholt justieren, so daß die Wellenform so wird, wie in Abb. 9 gezeigt, wenn die Ausgangsleistung von TP303 minimal ist.
PHASENSCHIFTER ABGLEICH						
13	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen. (60 dB, pilot 10% moduliertes Stereo-Signal anlegen.)	100.1 MHz (400 Hz Modulat., 100%) L-Betriebsart	100.1 MHz	Wechselstromvoltmeter an L-Kanal Ausgangsklemme "OUTPUT" schließen.	VR302	1. Den UKW Betriebsartschalter auf "auto". einstellen. 2. Auf max. Ausgang abgleichen.

Nr.	FM (UKW) MESSENDER		ANZEIGE-FREQUENZ DURCH VOR-EINSTELLUNG	VORBEREITUNG	ABGLEICHSPUNKTE	ABGLEICHSVERFAHREN
	ANSCHLUSS	FREQUENZ				
STEREO-VERZERRUNGSABGLEICH						
14	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen. (Stereo-Pilotenignal 10% moduliert.)	100.1 MHz (400 Hz Modulat., 100%) L-Betriebsart	100.1 MHz	Tiefpaßfilter (fc = 15 ~ 19 kHz) über Verzerrungsmesser an Ausgangsklemme "OUTPUT" des Gerätes schließen.	T101 (IFT)	<ol style="list-style-type: none"> Den UKW Muting/UKW-Betriebsartschalter auf "on/auto" einstellen. Den schon eingestellten T101 erneut, innerhalb von $\pm 90^\circ$ von der voreingestellten Kernposition einstellen, sodaß die Verzerrung des linken Kanals minimalisiert wird. Die Schritte 5, 7, 8 und 9 noch einmal überprüfen.
TRENNUNG-ABGLEICH						
15	Meßsender über eine Kunstantenne an den UKW-Antenneneingang eingang schließen. (Stereo-Pilotenignal 10% moduliert.)	100.1 MHz (400 Hz Modulat., 100%) L-order R-Betriebsart	100.1 MHz	Tiefpaßfilter (fc = 15 ~ 19 kHz) über Wechselstromvoltmeter an Ausgangsklemme "OUTPUT" des Gerätes schließen.	VR401	<ol style="list-style-type: none"> Den UKW Muting/UKW-Betriebsartschalter auf "on/auto" einstellen. VR401 auf minimale Anzeige des R-Ausgangs bei Stereo-modulator in L (L-Kanal-modulation) Modus, und auf minimale Anzeige des L-Ausgangs in R-Modus abgleichen.
ABGLEICHEN DES SIGNALMETER-LED (LICHTERZEUGENDE DIODE)-ANZEIGERS						
16	Meßsender über eine Kunstantenne an den UKW-Antennenein- schließen. Meßsender auf 42 dB einstellen.	100.1 MHz (400 Hz Modulat., 100%)	100.1 MHz	Signalmeter-LED	VR501 (Metervolumen)	Unter Beobachtung der Signalmeter-LED VR501 so justieren, daß der Anzeiger am 5. fast aufzuleuchten beginnt.
UKW-SIGNALPEGELTASTE						
17	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen. (54 dB in den Antenneneingang leiten.)	100.1 MHz (400 Hz Modulat., 100%)	100.1 MHz	—	VR502	<ol style="list-style-type: none"> Den UKW-Signalpegelanzeiger-Tastenschalter drücken und VR502 so justieren, daß 54 dB angezeigt wird. Die Eingangsleistung auf 30 dB reduzieren und dann langsam auf 54 dB erhöhen. Überprüfen, daß dann 54 dB angezeigt wird. Falls der Anzeigewert nicht 54 dB beträgt, erneut justieren.
UKW-ABSTIMMANZEIGE-ABGLEICH						
18	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen. (6.0 dB in den Antenneneingang leiten.)	100.1 MHz (400 Hz Modulat., 100%)	100.1 MHz	—	VR101	<ol style="list-style-type: none"> Den UKW Betriebsartschalter auf "off". VR101 zuerst entgegen dem Uhrzeigersinn drehen, und dann langsam im Uhrzeigersinn drehen, so daß die Quarz-Verriegelungs-Anzeigelampen auf leuchten.

■ INSTRUCTIONS DE REGLAGE ■ Français ■

- La bobine (L301) a déjà été mise au point et ne nécessite plus de réglage.
- Réglage le sélecteur d'attribution AM sur la position "9kHz".

REGLAGE DE AM

Réglage et équipement utilisé

- Voltmètres électronique de courant alternatif et de courant continu (VTVM)
- Générateur du signal AM (AM-SG)
- Conservez la tension du secteur à la tension nominale.
- Le signal du générateur ne doit pas être plus élevé qu'il n'est nécessaire à obtenir une lecture en sortie.
- Régler la position de la bobine (L201) de l'antenne en utilisant un tournevis de telle sorte qu'elle soit environ à 7cm de la plaque arrière.
- Utiliser un tournevis non-métallique pour la réglage.
- Sélecteur de gamme AM

No.	AM GENERATEUR		FREQUENCE D'AFFICHAGE PAR PREREGLAGE	PREPARATIONS	ELEMENTS REGLES	PROCEDURE DE REGLAGE
	BRANCHEMENT	FREQUENCE				
REGLAGE DE FI-AM						
1	Brancher le AM-SG à la borne de l'antenne AM par un condensateur de 200pF. Commun au châssis. (Entrée sous puissante)	450kHz (modulé à 30% par 400 Hz)	Point sans signal	C.A. Voltmètre électronique ou oscilloscope sur prise de sortie de l'appareil.	T203 (1 transfo F1) T204 (2 transfo F1)	Régler la fréquence d'entrée et les points de réglage de telle sorte que la sortie devienne maximale.
REGLAGE DE RF-AM						
2	522 kHz (modulé à 30% par 400 Hz)	522 kHz	Brancher le voltmètre à courant continu entre T201 et la prise de terre.	L202 (Bobine Osc.)	Régler L202 de telle sorte que le voltage mesuré par la voltmètre à courant continu, soit de 1,0V ± 0,05V.	
3	612 kHz (modulé à 30% par 400 Hz)	612 kHz	C.A. Voltmètre électronique ou oscilloscope sur prise de sortie de l'appareil.	L201 (Bobine Ant.)	<ol style="list-style-type: none"> Réglage au maximum de signal de sortie. Réglage le noyau ferrite de L201 à l'aide d'un tournevis. 	
4	1503 kHz (modulé à 30% par 400 Hz)	1503 kHz	C.A. Voltmètre électronique ou oscilloscope sur prise de sortie de l'appareil.	CT201 (Trimmer Ant.)	<ol style="list-style-type: none"> Réglage au maximum de signal de sortie. Refaire les étapes (3) et (4) jusqu'à ce que la fréquence s'aligne correctement avec l'affichage du cadran. 	
REGLAGE DE FM						
Equipment utilisé <ol style="list-style-type: none"> Générateur du signal FM (FM-SG) Commande de réglage stéréophonique (ou vu-mètre de séparation). Jauge de distorsion. Oscilloscope. Voltmètres électronique de courant alternatif et de courant continu (VTVM). Compteur de fréquence (19kHz et 108MHz mesurable). Antenne fictive FM, 75Ω ohms(Fig. 6) 			Préparation du générateur de signal FM (FM-SG) <ol style="list-style-type: none"> Brancher la commande de réglage stéréophonique à FM-SG. Alimenter la sortie SG à la borne de l'antenne de l'appareil, par l'antenne fictive FM, 75 ohms. L'entrée standard de l'appareil est de 60 dB (1mV), 400Hz, 100% de modulation (à cause de l'utilisation de l'antenne fictive, la sortie SG doit être de plus 12 dB (IHF). Ce qui signifie que quand l'entrée est de 60 dB, la sortie SG doit être de 72 dB.) 			
Conditions de l'appareil <ol style="list-style-type: none"> Placer le sélecteur de l'antenne FM sur la position "normal". Sélecteur d'entrée sur la position "FM". Commutateur de mode FM sur la position "auto". 			<ol style="list-style-type: none"> Commutateur d'accord silencieux FM du niveau de synthétisation FM sur la position "off/standard". 5. Commutateur du sélecteur (affichage) indicateur de signaux/multivoies sur la position "signal". 			
No.	FM GENERATEUR	FREQUENCE D'AFFICHAGE PAR PREREGLAGE	PREPARATIONS	ELEMENTS REGLES	PROCEDURE DE REGLAGE	
BRANCHEMENT	FREQUENCE	PREPARATIONS	ELEMENTS REGLES	PROCEDURE DE REGLAGE		
REGLAGE DE FI-FM						
5	—	Sans Signal	100.1MHz	Brancher le voltmètre électronique a.c.c aux bornes TP102 et TP103 . (Voir la Fig. 7)	T102 (Transfor FI discri.)	Régler le noyau T102 de telle sorte que le voltage mesuré dans le mode sans signal, soit de 0V dans la gamme des 300mV.
REGLAGE DE RF-FM						
6	87.9 MHz	87.9 MHz	Brancher le voltmètre à courant continu entre TP1 et la prise de terre.	L10 (Bobine Osc.)	Régler L10 de telle sorte que le voltage mesuré par le voltmètre à courant continu soit de 4.1V ± 0.1V.	
7	90.1 MHz (modulé à 100% par 400 Hz)	90.1 MHz	Oscilloscope sur prise de sortie du tuner.	L6 (1er détecteur) L8 (2e détecteur) L1 (Bobin Ant.)	<ol style="list-style-type: none"> Appliquer une entrée faible de telle sorte que le parasite soit compris dans la forme de l'onde de sortie. Faire le réglage de telle sorte que la forme de l'onde de sortie soit verticalement symétrique. (Voir Fig. 8) Refaire les réglages (7) et (8) jusqu'à ce que la fréquence corresponde correctement avec l'échelle du cadran. 	
8	106.1 MHz (modulé à 100% par 400 Hz)	106.1 MHz	Oscilloscope sur prise de sortie du tuner.	CT7 (Trimmer Osc.)		

ST-S6

ST-S6

No.	FM GENERATEUR		PREPARATIONS	ELEMENTS REGLES	PROCEDURE DE REGLAGE	
	BRANCHEMENT	FREQUENCE				
REGLAGE DE LA DISTORSION FM EN MONO						
9	Branchez sur la prise d'antenne FM à travers une antenne fictive FM	100.1 MHz (modulé à 100% par 400 Hz)	100.1 MHz	*Brancher le voltmètre électronique a.c.c. aux bornes TP102 et TP103 . (Voir la Fig. 7) *Brancher le compteur de distorsion à la borne de sortie (OUTPUT) du canal gauche et droit de l'appareil.	T102 (Transfo FI discri.) T103 (Transfo FI discri.)	<ol style="list-style-type: none"> Régler le noyau T102 de telle sorte que le voltage mesuré dans le mode sans signal, soit de 0V dans la gamme des 300mV. Régler le noyau T103 de telle sorte que la distorsion des canaux droit et gauche soit la plus faible.
REGLAGE (VCO) PILOTE MULTIPLEX FM						
10	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. (Signal monoscoustique)	100.1 MHz (Non modulé)	100.1 MHz	Brancher le compteur de fréquence à TP302 . (Par l'intermédiaire de 100kΩ)	VR301	<ol style="list-style-type: none"> Placer le commutateur de réglage silencieux de FM/ mode FM sur "on/auto". Régler VR301 de telle sorte que la fréquence de sortie de TP302 soit de 19 kHz ± 30 Hz.
REGLAGE FILTRE PILOTE PASS-BANDE						
11	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. (Appliquer un signal stéréo modulé, signal pilote à 10% de 60 dB)	100.1 MHz (Non modulé)	100.1 MHz	Brancher un voltmètre à courant alternatif à TP301	L302 L303	<ol style="list-style-type: none"> Placer la commutateur de mode de FM sur la position "auto". Régler au maximum de signal de sortie.
ANNULATION DU SIGNAL PILOTE						
12	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. (Appliquer un signal stéréo modulé, signal pilote à 10% de 60 dB)	100.1 MHz (Non modulé)	100.1 MHz	Brancher le voltmètre à courant alternatif et l'oscilloscope à TP303	L303 VR303	<ol style="list-style-type: none"> Placer le commutateur de mode de FM sur la position "auto". Adjuster de façon répétée VR303 et L303 de façon à ce que la forme d'onde soit telle qu'elle est montrée à la Fig. 9 lorsque la sortie de TP303 est minimale.
REGLAGE DU DEPHASEUR						
13	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. (Appliquer un signal stéréo modulé, signal pilote à 10% de 60 dB)	100.1 MHz (modulé à 100% par 400 Hz) (Mode G)	100.1 MHz	Brancher un voltmètre à courant continu à la borne de sortie du canal gauche.	VR302	<ol style="list-style-type: none"> Placer la commutateur de mode de FM sur la position "auto". Régler au maximum de signal de sortie.
REGLAGE DE LA DISTORSION STEREO						
14	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. (Signal stéréo pilote à 10% de modulation)	100.1 MHz (modulé à 100% par 400 Hz) (Mode G)	100.1 MHz	Brancher le filtre passe-bas (fc = 15 ~ 19 kHz) à la borne de sortie (OUTPUT) de l'appareil par un compteur de distorsion.	T101	<ol style="list-style-type: none"> Placer le commutateur de mode de FM sur la position "auto". Réglage T101 déjà réglé, à ± 90% de la position pré-réglée du noyau de telle sorte que la distorsion du canal gauche soit minimale. Re vérifier les étapes 5, 7, 8 et 13.
REGLAGE DE LA SEPARATION DES CANAUX						
15	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. (Signal stéréo pilote à 10% de modulation)	100.1 MHz (modulé à 100% par 400 Hz) (Mode G ou D.)	100.1 MHz	Brancher le filtre passe-bas (fc = 15 ~ 19 kHz) à la borne de sortie (OUTPUT) de l'appareil par un voltmètre à courant alternatif.	VR401	<ol style="list-style-type: none"> Placer le commutateur de mode de FM sur la position "auto". Régler VR401 de telle sorte que la sortie droite soit minimale quand la commande d'accord stéréophonique est dans le mode gauche (modulation du canal gauche) et que la sortie gauche soit minimale dans mode droit.

No.	FM GENERATEUR		PREPARATIONS	ELEMENTS REGLES	PROCEDURE DE REGLAGE
	BRANCHEMENT	FREQUENCE			
ALIGNEMENT DE L'INDICATEUR DE SIGNAL DE LA DIODE A EMISSION DE LUMIERE (DEL)					
16	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. (Niveau de sortie du générateur 42 dB)	100.1 MHz (modulé à 100% par 400 Hz)		DEL du compteur à signal de l'aiguille du cadran.	VR501 (Registor variable du compteur)
REGLAGE INDICATEUR D'INTENSITE DES SIGNAUX FM					
17	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. (Niveau de sortie du générateur 54 dB)	100.1 MHz (modulé à 100% par 400 Hz)		—	VR502
REGLAGE DE L'INDICATEUR DE BLOCAGE PAR QUARTS FM					
18	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. (Niveau de sortie du générateur 6.0 dB)	100.1 MHz (modulé à 100% par 400 Hz)		—	VR101

■ REPLACEMENT PARTS LIST...Electrical Parts

Notes: 1. Part numbers are indicated on most mechanical parts.

Please use this part number for parts orders.

2. 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.

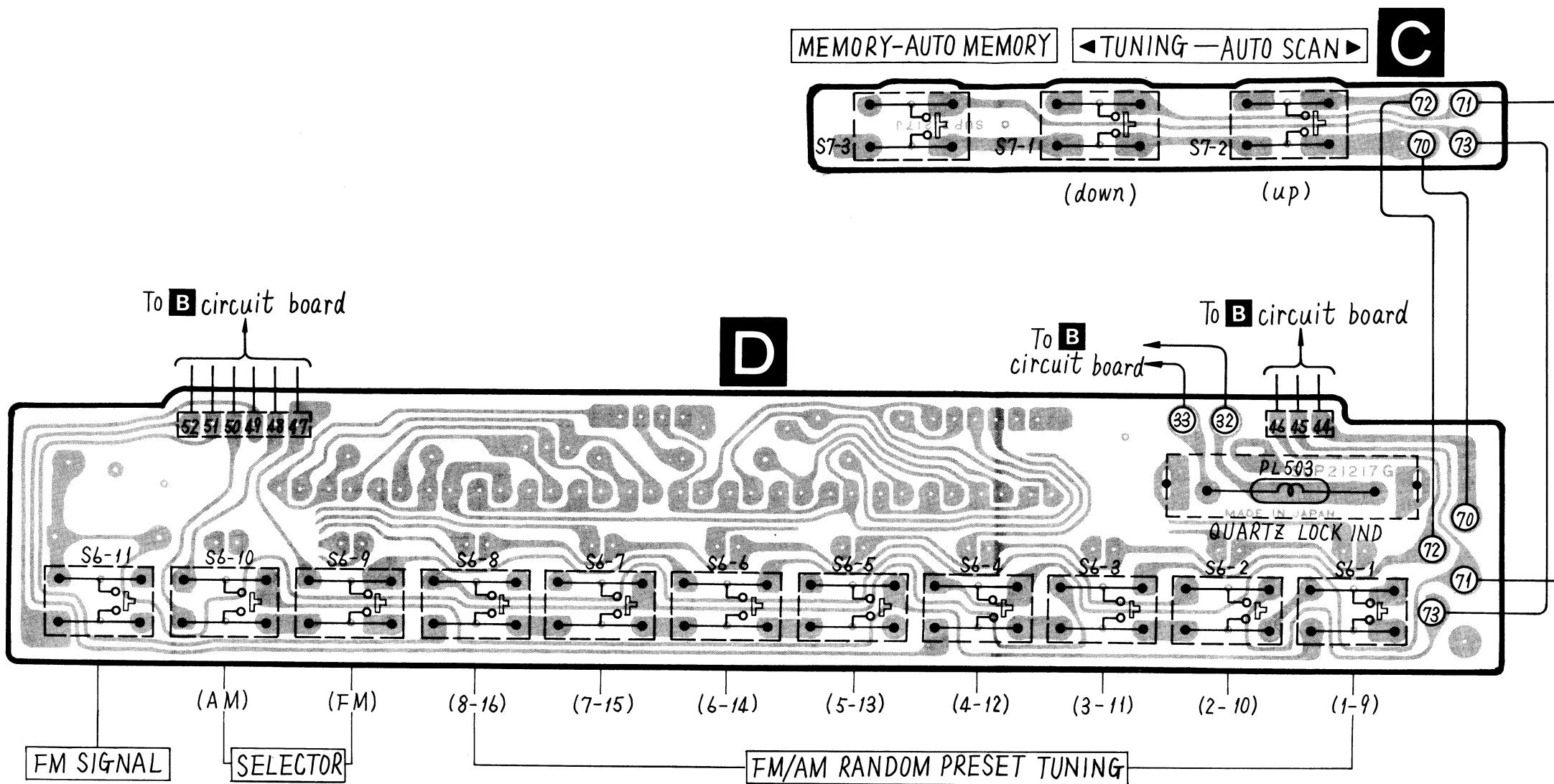
Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
INTEGRATED CIRCUITS					
IC101 IC103 IC104 IC301 IC302, 401, 501 IC303 IC502 IC503 IC901 IC902 IC903	SVIM5215L RVIUPC1018CF SVIUPC1167C2 SVIUPC1161C AN6552F SVIUPD4066C AN6876 AN6552F SVID1704C514 SVIUPB553C-E SVIMSL915RS	IC, FM IF Amplifier IC, FM IF & AM Converter IC, FM IF Detector IC, FM MPX IC, Multipath, Buffer IC, Peak Sampling Switch IC, LED Driver IC, Loop Filter IC, Micro-Computer IC, Pre-Scaler IC, FL Driver	DIODES		
TRANSISTORS					
Q1 Q3 Q4, 5, 6 Q101, 102, 103 Q104, 301, 501 601 ~ 608, 611 613 ~ 616, 902 ~ 905 Q502, 503, 609 612, 703, 704, 901 Q701 Q705	3SK74-L1 2SC1674-M 2SC1675-L 2SC829-C 2SC945-Q 2SA733-P1 2SD762-O 2SC1815-Y	Transistor, FM RF Amplifier Transistor, FM Mixer Transistor, FM Oscillator, Buffer Transistor, Switching Transistor, Phase Shift, AM Amplifier Switching, Quartz Lock Lamp Driver Muting, Loop Filter Transistor, AM Amplifier, Switching, Muting Transistor, Regulator Transistor, Regulator	D1, 5, 6, 7 D101, 102, 202 504, 921 D103, 203, 503 542, 544, 605 607, 608, 610 612 ~ 618, 711 901, 902, 904 905, 907 911 ~ 920 D201 D506 ~ 510 D511 D513 D537 D543 D701 ~ 704 D705 D706 D707 D709 D710 D908 D910, 923	20A90 MA162A MA27A2 MA27A1 SVDSR1K2 MA162A SVDMZ33A SVDEQA0113RA RVDRD6R2EB MA1064A MA162A MA162A	Diode, Variable Capacitor (for FM) Diode, Switching Diode, Switching Diode, Variable Capacitor (for AM) Light Emitting Diode, Red Light Emitting Diode, Yellow Diode Diode, 16V Zener Diode Rectifier Diode Diode, 33V Zener Diode, 13V Zener Diode, 6.2V Zener Diode, 6.4V Zener Diode Diode

Ref. No.		Part No.	Part Name & Description
COILS and TRANSFORMERS			
L1		SLA4P43	Coil, FM Antenna
L6		SLD4P43	Coil, FM RF Detector
L7, 11		SLQAN40G1	Coil, Choke
L8		SLD4P45	Coil, FM RF Detector
L9		RLQY15G5-Y	Coil, Choke
L10		SLO4P73	Coil, FM Oscillator
L101, 901		SLQX101-2D	Coil, Choke
L201		SLF2D73	Coil, AM Bar Antenna
L202		SLO2C29-P	Coil, AM Oscillator
L203		SLI2C127	Coil, AM IF
L204		SLI2C413	Coil, AM IF
L301		SLM1C47-P	Coil, LPF
L302, 303		SLM1C57-Z	Coil, BPF
T101		SLI4C109	Transformer, FM IF
T102		SLI4C529-Z	Transformer, FM IF
T103		SLI4C531-Z	Transformer, FM IF
T701	△	SLT5J121-1W	Transformer, Power Source
CERAMIC FILTERS			
CF101, 105		SVFE107MX2-A	Ceramic Filter, FM 10.7MHz Red
		SVFE107MX2-D	Ceramic Filter, FM 10.65MHz Black
CF102, 103		SVFE107MZ2-A	Ceramic Filter, FM 10.7MHz Red
		SVFE107MZ2-D	Ceramic Filter, FM 10.65MHz Black
CF104		SVFE107MM-A	Ceramic Filter, FM 10.7MHz Red
		SVFE107MM-D	Ceramic Filter, FM 10.65MHz Black
	(Use pair ranks as same as CF101, CF102, CF103, CF104 and CF105)		
CF201		SVFSFP450HT	Ceramic Filter, AM450kHz
VARIABLE RESISTORS			
VR101, 303		EVTS3MA00B54	Pilot Cancel and Quartz Lock LED Adjustment, 50kΩ (B)
VR301		EVTS3MA00B53	VCO Adjustment, 5kΩ (B)
VR302		EVTS3MA00B14	Phase Shift Adjustment, 10kΩ (B)
VR401		EVTS3MA00B15	Separation Adjustment, 100kΩ (B)
VR501		EVTS3MA00B14	Signal LED Adjustment, 10kΩ (B)
VR502		EVTS0AA00B14	Signal Strength Level Adjustment, 10kΩ (B)
CRYSTAL			
X901		SVQ43U452	Crystal, 4.5MHz Counter Oscillator
VARIABLE CAPACITORS			
CT7		ECV1ZW06X32E	Trimmer, FM Oscillator
CT201		SVCTY122D221	Trimmer, AM Antenna
COMPONENT COMBINATIONS			
Z201		EXRP203Z104T	Component Combination, 0.02μF, 100kΩ
Z901		EXBP87104K	Component Combination, 100kΩ (x 7)
Z902		EXFP7331MW	Component Combination, 330pF, (x 7)
THERMISTER			
TH101		ERTD2FHL103S	Thermister, Thermal Compensation, 10kΩ
LAMP			
PL503	△	XAMR68S8	Lamp, 0.07A (8V)
FLUORESCENT DISPLAY TUBE			
FL		SAD7MT29ZA	Fluorescent Display Tube

Ref. No.		Part No.	Part Name & Description
LIQUID ELECTROLYTE DOUBLE LAYER CAPACITOR			
C717 ~ 719		EECW1R8A3R3S	Liquid Electrolyte Double Layer 3.3F (1.8V)
SWITCHES			
S1 ~ 5		SSH537	Switch, FM Tuning Level, FM Muting
S6 ~ 1 ~ 6-11		SSG7	Display Mode, FM Mode, FM IF Select
7-1 ~ 7-3			Switch, Preset, FM and AM Mode, FM
			Signal Strength Level Call, Tuning, Memory
S8	△	SSH183	Switch, Power Source
S10	△	ESD14116	Switch, Allocation
S12	△	ESE372	Switch, Voltage Adjustor
RESISTORS			
R1		ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R2		ERD25TJ823	Carbon, 1/4W, 82kΩ, ± 5%
R3		ERD25TJ184	Carbon, 1/4W, 180kΩ, ± 5%
R4		ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R11		ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R12		ERD25TJ683	Carbon, 1/4W, 68kΩ, ± 5%
R14		ERD25FJ100	Carbon, 1/4W, 10Ω, ± 5%
R15, 16		ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R18		ERD25FJ822	Carbon, 1/4W, 8.2kΩ, ± 5%
R19		ERD25TJ333	Carbon, 1/4W, 33kΩ, ± 5%
R20		ERD25FJ331	Carbon, 1/4W, 330Ω, ± 5%
R21		ERD25FJ221	Carbon, 1/4W, 220Ω, ± 5%
R22		ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R23		ERD25TJ333	Carbon, 1/4W, 33kΩ, ± 5%
R24		ERD25FJ221	Carbon, 1/4W, 220Ω, ± 5%
R25		ERD25FJ152	Carbon, 1/4W, 1.5kΩ, ± 5%
R26		ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R27		ERD25FJ222	Carbon, 1/4W, 2.2kΩ, ± 5%
R28		ERD25FJ221	Carbon, 1/4W, 220Ω, ± 5%
R29		ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R30		ERD25FJ472	Carbon, 1/4W, 4.7kΩ, ± 5%
R34		ERD25TJ223	Carbon, 1/4W, 22kΩ, ± 5%
R101		ERD25FJ470	Carbon, 1/4W, 47Ω, ± 5%
R102		ERD25FJ331	Carbon, 1/4W, 330Ω, ± 5%
R104		ERD25FJ472	Carbon, 1/4W, 4.7kΩ, ± 5%
R105		ERD25FJ471	Carbon, 1/4W, 470Ω, ± 5%
R106		ERD25FJ331	Carbon, 1/4W, 330Ω, ± 5%
R107		ERD25FJ681	Carbon, 1/4W, 680Ω, ± 5%
R108, 109		ERD25TJ473	Carbon, 1/4W, 47kΩ, ± 5%
R110, 111		ERD25TJ333	Carbon, 1/4W, 33kΩ, ± 5%
R112		ERD25FJ222	Carbon, 1/4W, 2.2kΩ, ± 5%
R113		ERD25FJ331	Carbon, 1/4W, 330Ω, ± 5%
R117		ERD25FJ331	Carbon, 1/4W, 330Ω, ± 5%
R119		ERD25TJ473	Carbon, 1/4W, 47kΩ, ± 5%
R120		ERD25TJ333	Carbon, 1/4W, 33kΩ, ± 5%
R121		ERD50FJ470	Carbon, 1/2W, 47Ω, ± 5%
R122		ERD25FJ682	Carbon, 1/4W, 6.8kΩ, ± 5%
R123		ERD25TJ183	Carbon, 1/4W, 18kΩ, ± 5%
R124		ERD25FJ182	Carbon, 1/4W, 1.8kΩ, ± 5%
R125		ERD25TJ333	Carbon, 1/4W, 33kΩ, ± 5%
R126		ERD25FJ332	Carbon, 1/4W, 3.3kΩ, ± 5%
R127		ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R128		ERD25FJ181	Carbon, 1/4W, 180Ω, ± 5%
R129, 130	△	ERD25FJ471	Carbon, 1/4W, 470Ω, ± 5%
R131		ERD25FJ272	Carbon, 1/4W, 2.7kΩ, ± 5%
R132		ERD25TJ393	Carbon, 1/4W, 39kΩ, ± 5%
R133		ERD25FJ101	Carbon, 1/4W, 100Ω, ± 5%
R134		ERD25FJ151	Carbon, 1/4W, 150Ω, ± 5%
R201		ERD25FJ471	Carbon, 1/4W, 470Ω, ± 5%
R202		ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R203		ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R204		ERD25TJ183	Carbon, 1/4W, 18kΩ, ± 5%
R206		ERD25FJ681	Carbon, 1/4W, 680Ω, ± 5%
R207		ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R208		ERD25FJ471	Carbon, 1/4W, 470Ω, ± 5%
R209		ERD25FJ472	Carbon, 1/4W, 4.7kΩ, ± 5%
R210		ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R212		ERD25FJ562	Carbon, 1/4W, 5.6kΩ, ± 5%
R213, 214		ERD25FJ102	Carbon, 1/4W, 1kΩ, ± 5%
R215		ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R301		ERD25FJ102	Carbon, 1/4W, 1kΩ, ± 5%
COMPONENT COMBINATIONS			
Z201		EXRP203Z104T	Component Combination, 0.02μF, 100kΩ
Z901		EXBP87104K	Component Combination, 100kΩ (x 7)
Z902		EXFP7331MW	Component Combination, 330pF, (x 7)
THERMISTER			
TH101		ERTD2FHL103S	Thermister, Thermal Compensation, 10kΩ
LAMP			
PL503	△	XAMR68S8	Lamp, 0.07A (8V)
FLUORESCENT DISPLAY TUBE			
FL		SAD7MT29ZA	Fluorescent Display Tube

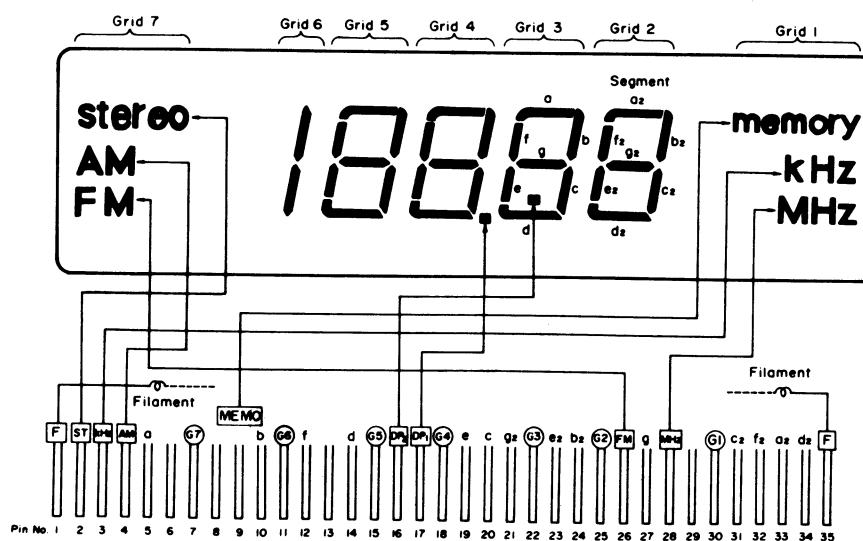
Ref. No.		Part No.	Part Name & Description
LIQUID ELECTROLYTE DOUBLE LAYER CAPACITOR			
C702		ERD25TJ153	Carbon, 1/4W, 15kΩ, ± 5%
R303, 304		ERD25FJ392	Carbon, 1/4W, 3.9kΩ, ± 5%
R305		ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R306		ERD25TJ223	Carbon, 1/4W, 22kΩ, ± 5%
R307, 308		ERD25FJ682	Carbon, 1/4W, 6.8kΩ, ± 5%
R309		ERD25TJ223	Carbon, 1/4W, 22kΩ, ± 5%
R310		ERD25FJ562	Carbon, 1/4W, 5.6kΩ, ± 5%
R311, 312		ERD25TJ153	Carbon, 1/4W, 15kΩ, ± 5%
R31			

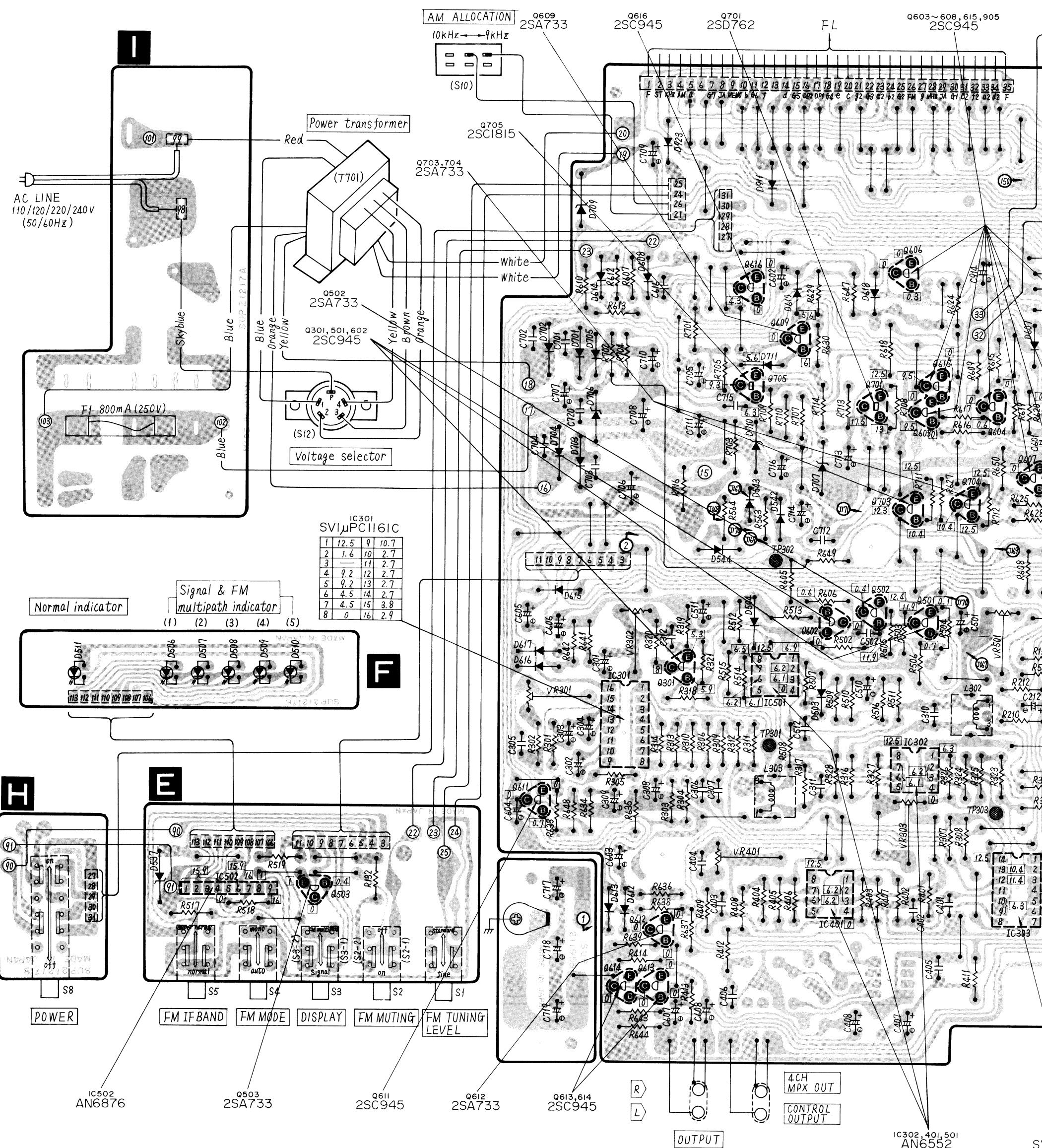
■ CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



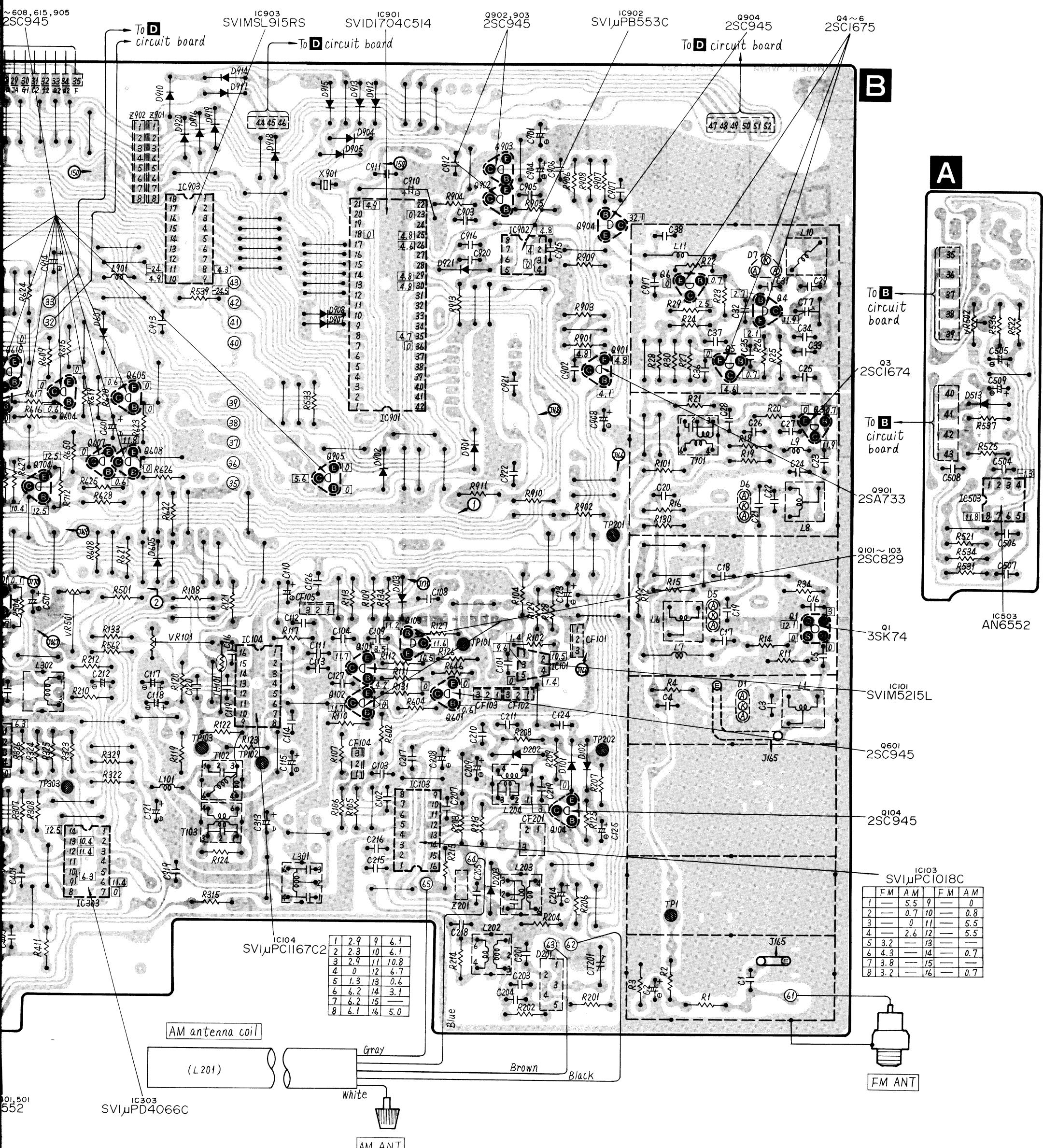
- Terminal guide of transistors, diodes and IC's

3SK74	2SD762	AN6552F, SVI μ PB553C
SVIM5215L	SVI μ PC1018F, SVI μ PC1161C, SVI μ PC1167C2	
2SA733, 2SC829, 2SC945, 2SC1674, 2SC1675, 2SC1815	SVIMSL915RS	SVI μ PD4066C
SVID1704C514	AN6876	





lines



SCHEMATIC DIAGRAM

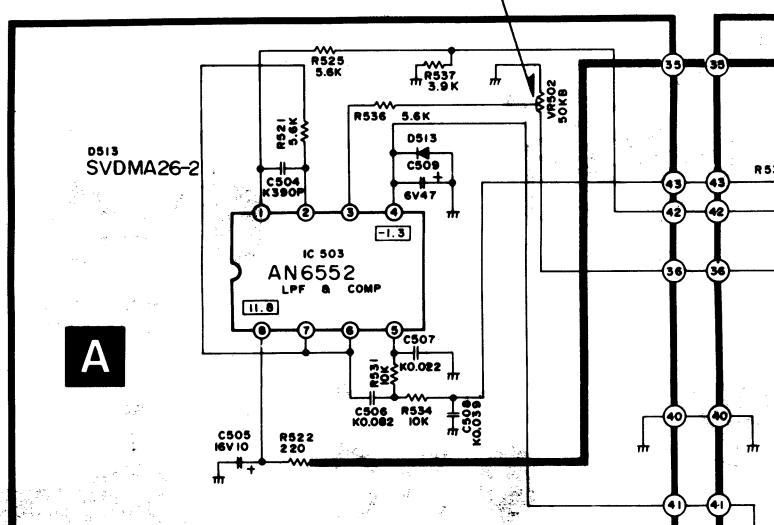
(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

1. **S1**: FM frequency shift switch in "+25 kHz" position.
off → +25 kHz
 2. **S2**: FM muting and FM tuning level switch in "on/fine" position.
on/fine → off/standard
 3. **S3**: Signal/Multipath indicator selector (display) switch in "signal" position.
signal → FM multipath
 4. **S4**: FM mode switch in "auto" position.
auto → mono
 5. **S5**: FM IF band selector switch in "normal" position.
normal → super narrow
 6. **S6-1 ~ S6-8**: FM/AM random preset tuning switch.
CH1 ~ CH16
 7. **S6-9, S6-10**: Band selector switch. (S6-9. . . . FM, S6-10. . . . AM)
 8. **S6-11**: FM signal switch.
 9. **S7-1, S7-2**: Tuning and auto-scan switch.
 10. **S7-3**: Memory and auto memory switch.
 11. **S8**: Power switch in "on" position.
 12. **S10**: AM allocation switch in "9 kHz" position.
9 kHz → 10 kHz
 13. **S12**: Voltage selector switch in "220V" position.
100V → 120V → 220V → 240V
 14. 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.
- * Figures in stand for DC voltage in FM signal (no signal) reception mode.
 * Figures in stand for DC voltage in FM stereo signal reception mode.

1 2 3 4 5 6 7

FM signal-strength indicator adj.



* Figures in () stand for DC voltage in AM signal reception mode.
 * H : 5V, L : 0V
 * H : 5V, L : -26V

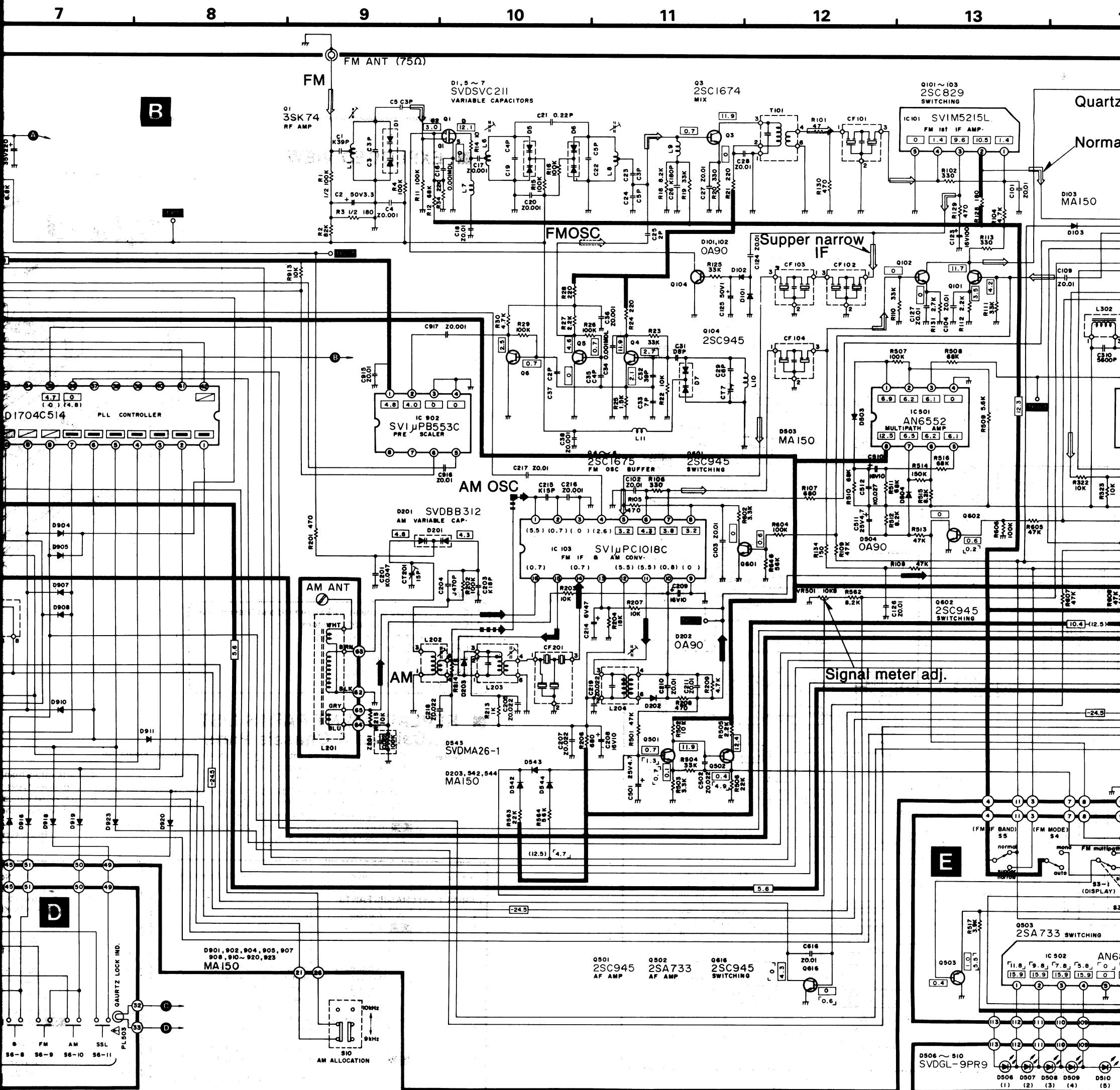
15. Transistor and IC terminals which carry no voltage indication emit 5V pulse waveforms or are subject to change according to the frequency or input signal levels.

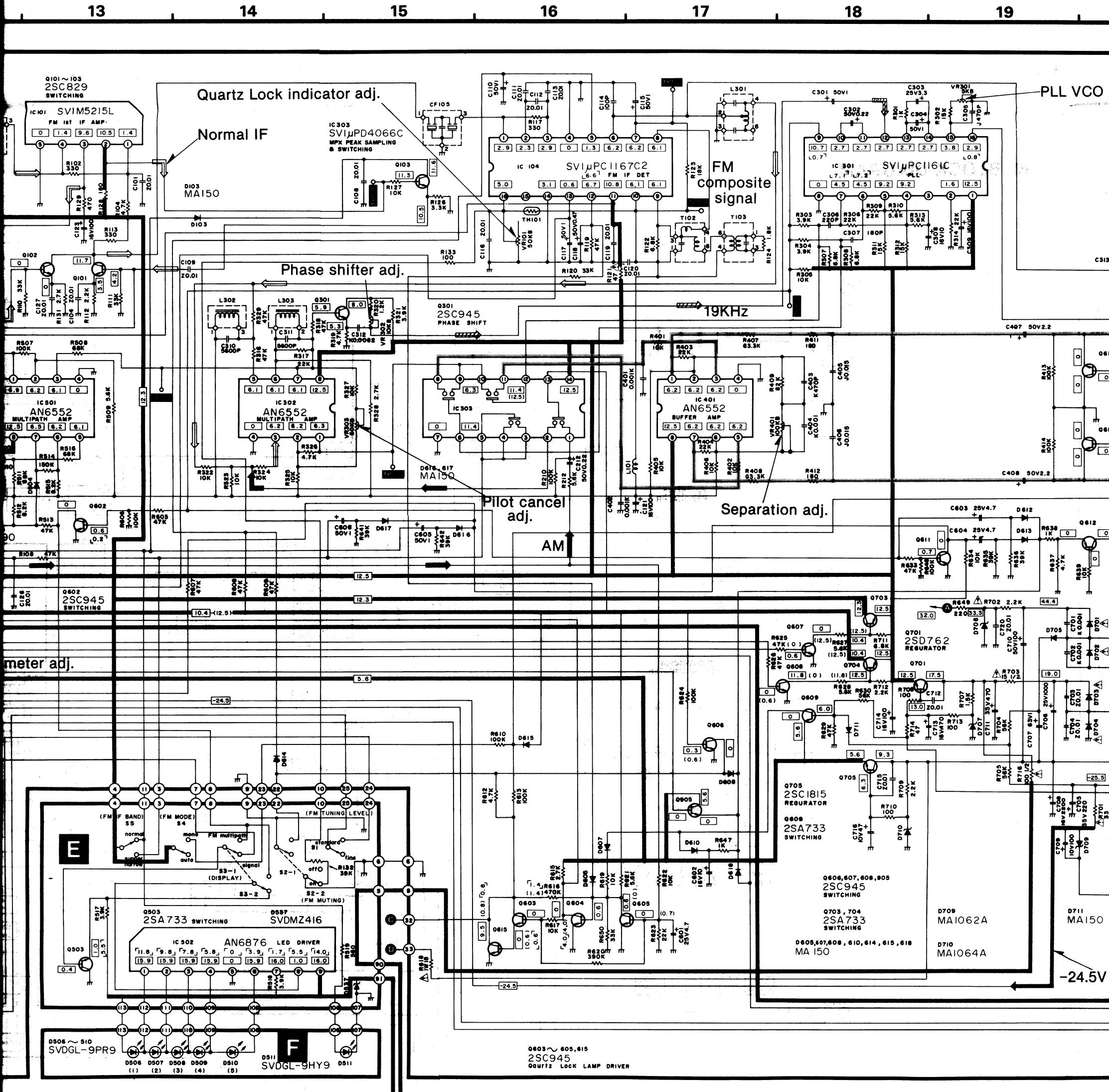
16. Signal lines
 FM signal
 AM signal
 Pilot signal

Audio frequency signal
 Positive voltage line

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

cuit tester (high-impedance)
 s, depending on the internal





17

18

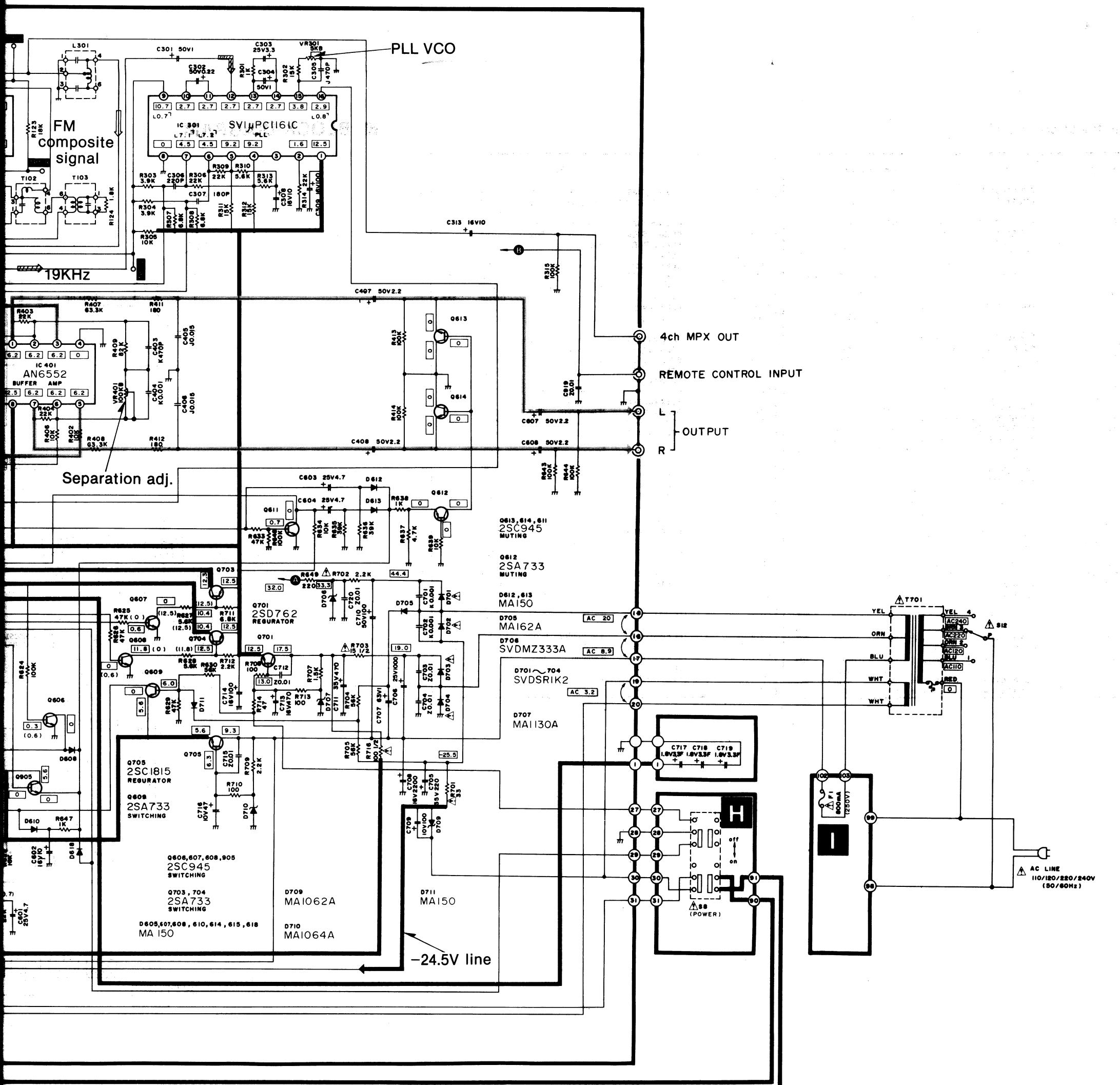
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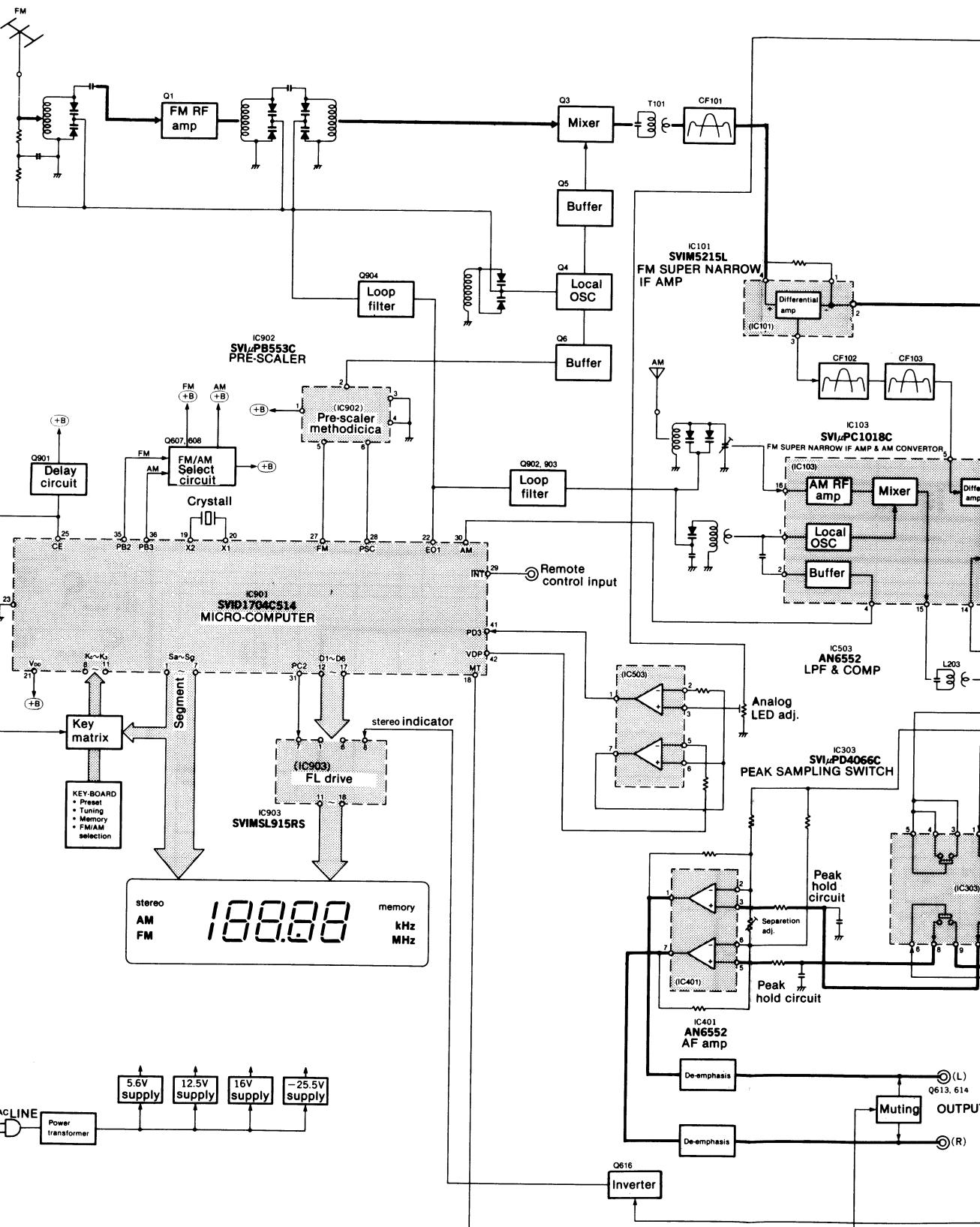
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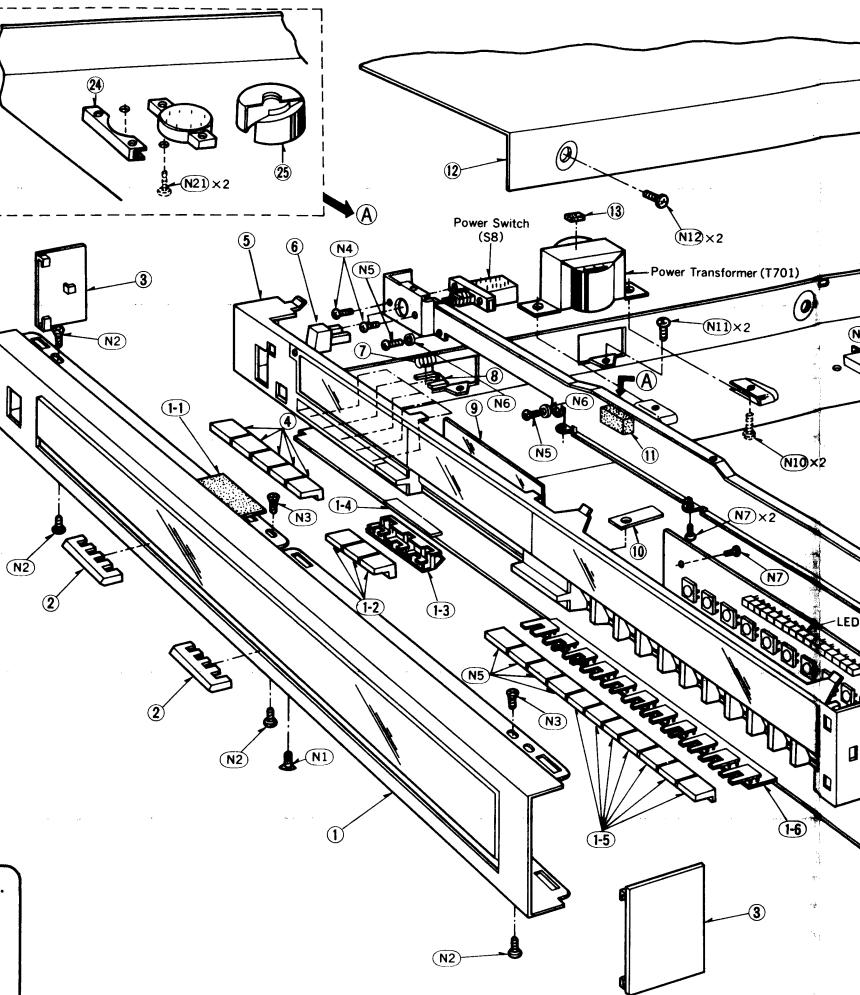
■ BLOCK DIAGRAM

Ref. No.		Part No.	Part Name & Description
C121		ECEA1ES101	Electrolytic, 25V, 100μF
C123		ECEA1ES101	Electrolytic, 25V, 100μF
C124		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C125		ECEA50Z1	Electrolytic, 50V, 1μF
C126, 127		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C201		ECQM1H473KZ	Polyester, 50V, 0.047μF, ± 10%
C203		ECCD1H180KC	Ceramic, 50V, 18μF, ± 10%
C204		ECQP1471JZ	Polypropylene, 100V, 470pF, ± 5%
C205		ECKD1H223ZF	Ceramic, 50V, 0.022μF, ± 20%
C207		ECKD1H223ZF	Ceramic, 50V, 0.022μF, ± 20%
C208, 209		ECEA1HS100	Electrolytic, 50V, 10μF
C210, 211		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C212		ECEA50ZR22	Electrolytic, 50V, 0.22μF
C214		ECEA1AS470	Electrolytic, 10V, 47μF
C215		ECCD1H150KC	Ceramic, 50V, 15pF, ± 10%
C216		ECKD1H102ZF	Ceramic, 50V, 0.001μF, ± 20%
C217		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C218, 219		ECKD1H223ZF	Ceramic, 50V, 0.022μF, ± 20%
C301		ECEA50Z1	Electrolytic, 50V, 1μF
C302		ECEA50MR22R	Electrolytic, 50V, 0.22μF
C303		ECEA50M3R3R	Electrolytic, 50V, 3.3μF
C304		ECEA50M1R	Electrolytic, 50V, 1μF
C305		ECQP1471JZ	Polypropylene, 100V, 470pF, ± 5%
C306, 307		ECCD1H181K	Ceramic, 50V, 180pF, ± 10%
C308		ECEA1HS100	Electrolytic, 50V, 10μF
C309		ECEA1ES101	Electrolytic, 25V, 100μF
C310		ECQP1562JZ	Polypropylene, 100V, 5600pF, ± 5%
C311		ECQS1562JZ	Polystyrene, 100V, 5600pF, ± 5%
C312		ECQM1H822KZ	Polyester, 50V, 8200μF, ± 10%
C313		ECEA1HS100	Electrolytic, 50V, 10μF
C401, 402		ECQM1H102KZ	Polyester, 50V, 0.001μF, ± 10%
C403		ECKD1H471KB	Ceramic, 50V, 470pF, ± 10%
C404		ECQM1H102KZ	Polyester, 50V, 0.001μF, ± 10%
C405, 406		ECKD1H153JZ	Polyester, 50V, 0.015μF, ± 5%
C407, 408		ECEA50ZR22	Electrolytic, 50V, 2.2μF
C501		ECEA25Z4R7	Electrolytic, 25V, 4.7μF
C502		ECKD1H223ZF	Ceramic, 50V, 0.022μF, ± 20%
C504		ECKD1H391KB	Ceramic, 50V, 390pF, ± 10%
C505		ECEA1HS100	Electrolytic, 50V, 10μF
C506		ECQM1H823KZ	Polyester, 50V, 0.082μF, ± 10%
C507		ECQM1H223KZ	Polyester, 50V, 0.022μF, ± 10%
C508		ECQM1H393KZ	Polyester, 50V, 0.039μF, ± 10%
C509		ECEA1AS470	Electrolytic, 10V, 47μF
C510		ECEA1HS100	Electrolytic, 50V, 10μF

Ref. No.		Part No.	Part Name & Description
C511		ECEA25Z4R7	Electrolytic, 25V, 4.7μF
C512		ECQM1H273KZ	Polyester, 50V, 0.027μF, ± 10%
C601		ECEA25Z4R7	Electrolytic, 25V, 4.7μF
C602		ECEA1HS100	Electrolytic, 50V, 10μF
C603, 604		ECEA25Z4R7	Electrolytic, 25V, 4.7μF
C605, 606		ECEA50Z1	Electrolytic, 50V, 1μF
C607, 608		ECEA50ZR22	Electrolytic, 50V, 2.2μF
C616		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C701, 702		ECKD2H102KB	Ceramic, 500V, 0.001μF, ± 10%
C703, 704		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C705		ECEA1VS221	Electrolytic, 50V, 220μF
C706		ECEA1VS102	Electrolytic, 50V, 1000μF
C707		ECEA2AS010	Electrolytic, 100V, 1μF
C708		ECEA1CS222	Electrolytic, 16V, 2200μF
C709		ECEA1AS101	Electrolytic, 10V, 100μF
C710		ECEA1HS101	Electrolytic, 50V, 100μF
C711		ECEA1VS471	Electrolytic, 35V, 470μF
C712		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C713		ECEA1CS471	Electrolytic, 16V, 470μF
C714		ECEA1ES101	Electrolytic, 25V, 100μF
C715		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C716		ECEA1AS470	Electrolytic, 10V, 47μF
C717, 718		EECW1R8A3R3S	Gold-Capacitor, 1.8V, 3.3μF
C719		EECW1R8A3R3S	Gold-Capacitor, 1.8V, 3.3μF
C720		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C901		ECEA1AS470	Electrolytic, 10V, 47μF
C902		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C903		ECQM1H103KZ	Polyester, 50V, 0.01μF, ± 10%
C904		ECEA50M4R7R	Electrolytic, 50V, 4.7μF
C905		ECQM1H473KZ	Polyester, 50V, 0.047μF, ± 10%
C906		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C907		ECQM1H103KZ	Polyester, 50V, 0.01μF, ± 10%
C908		ECEA1VS221	Electrolytic, 35V, 220μF
C909		ECEAOJS471	Electrolytic, 6.3V, 470μF
C910		ECCD1H180KC	Ceramic, 50V, 18pF, ± 10%
C911		ECCD1H070DC	Ceramic, 50V, 7pF, ± 0.5pF
C912		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C913		ECEA0JS102	Electrolytic, 6.3V, 1000μF
C914		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C915, 916		ECKD1H102ZF	Ceramic, 50V, 0.001μF, ± 20%
C917		ECKD1H102ZF	Ceramic, 50V, 0.01μF, ± 20%
C919, 920		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%
C921		ECQM1H153KZ	Polyester, 50V, 0.015μF, ± 10%
C922		ECKD1H103ZF	Ceramic, 50V, 0.01μF, ± 20%



■ EXPLODED VIEW



Areas

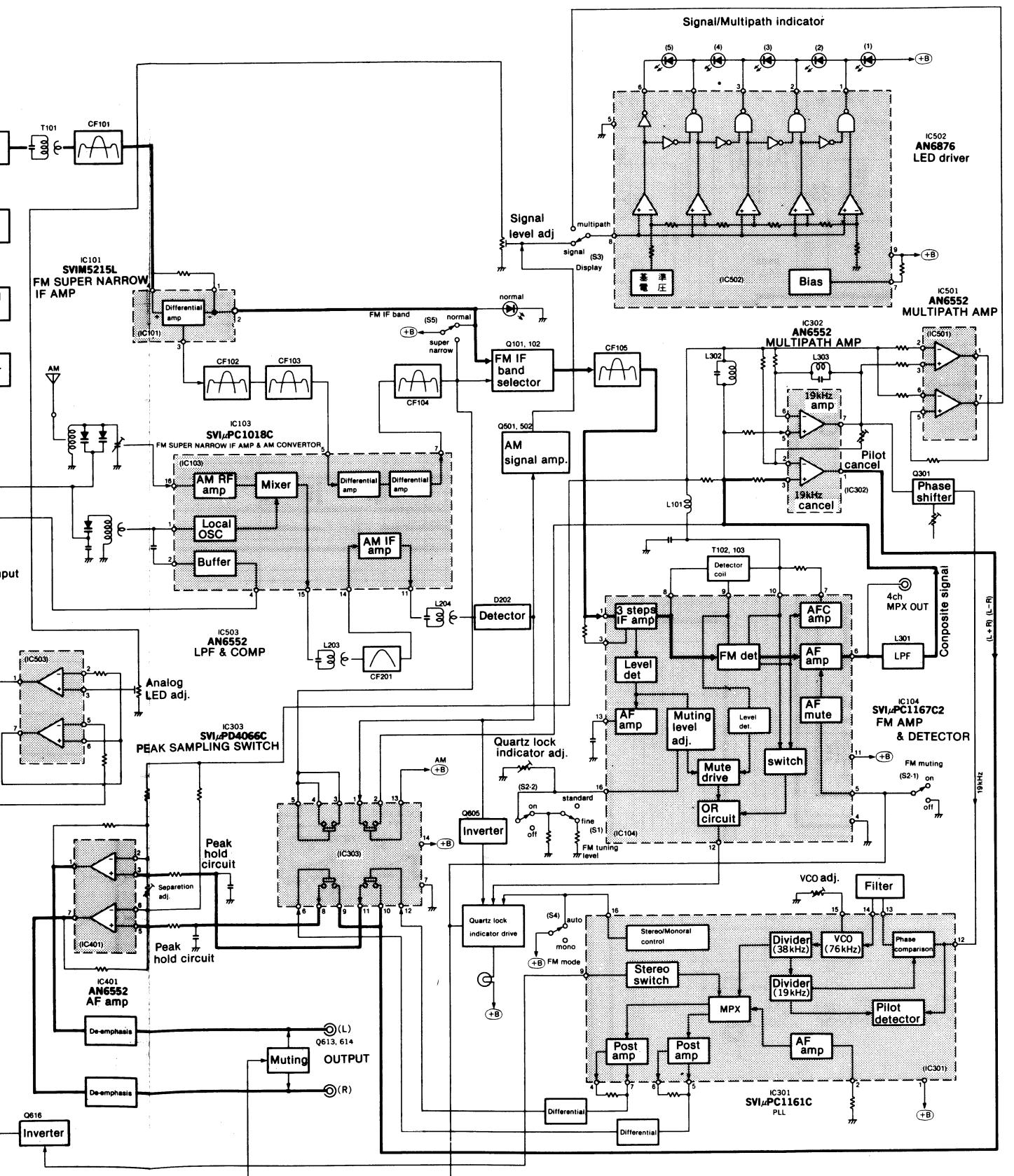
- * [E] and [EX] are available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [EG] is available in F.R. Germany.
- * [EF] is available in France.
- * [EH] is available in Holland.
- * [EB] is available in Belgium.
- * [EA] is available in Austria.

■ REPLACEMENT PARTS LIST ...Cabinet & Chassis Parts

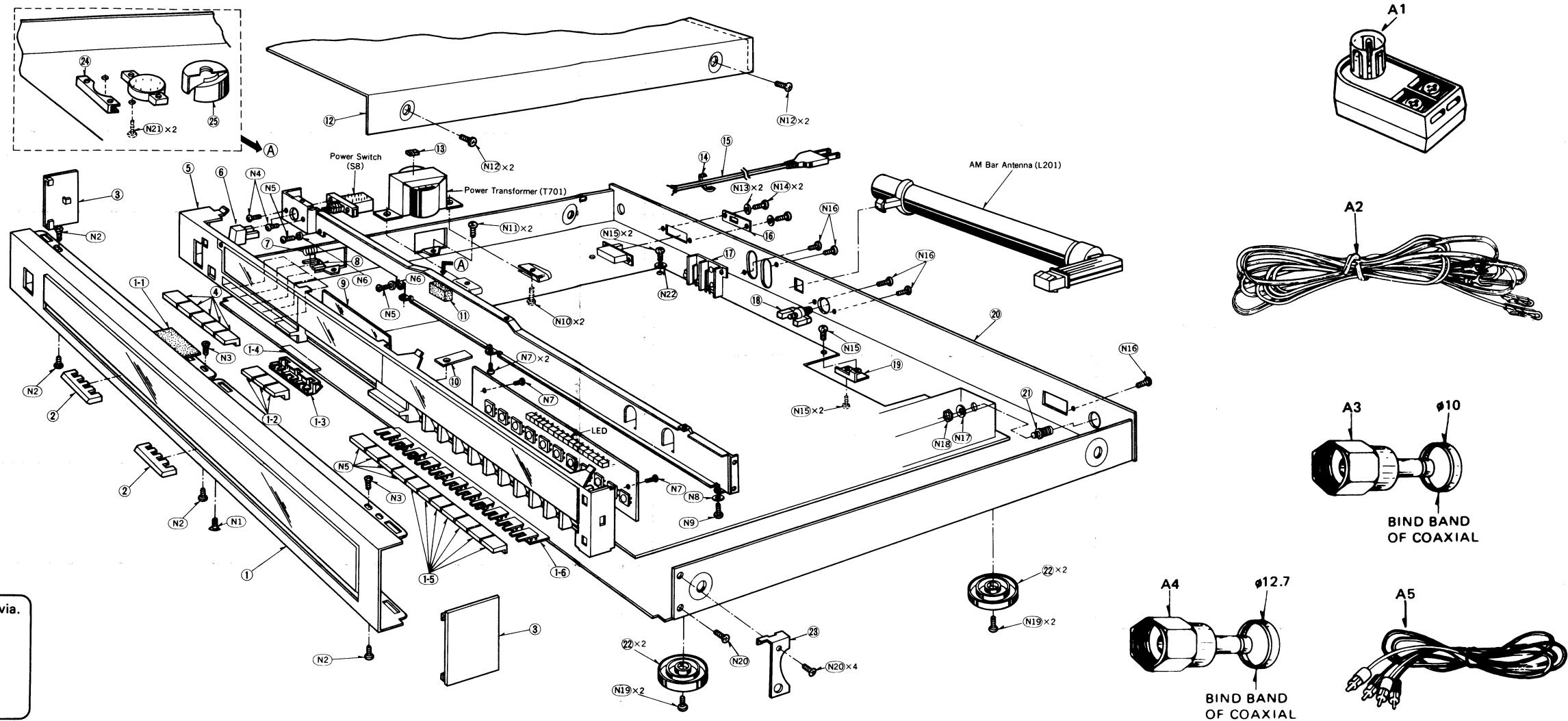
- Notes:**
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 2. Important safety notice:
Components identified by Δ make have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
 3. \blacksquare -marked parts are used for black type only, while \circ -marked parts are for silver type only.
 4. Parts other than \blacksquare and \circ -marked are used for both black and silver types.
 5. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

Black type model No. : ST-S6 (K)

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
CABINET and CHASSIS PARTS					
1	\blacksquare SGWTS6E \circ SGWTS6KE	Front Panel Ass'y Front Panel Ass'y (Black)	5	\circ SGXTS6E \blacksquare SGXTS6KE	Front Sub Panel Ass'y Front Sub Panel Ass'y (Black)
1-1	SHG6063-1	Spacer, Front Panel Ass'y	6	SBC337	Button, Power Source Switch
1-2	SBC343	Button, Tuning and Memory	7	SUS231-1	Spring, Button
1-3	SHR9541	Holder, Button	8	SBZ601	Holder, Button
1-4	SHS3229-2	Spacer, Holder	9	SHR5113	Filter, FL
1-5	SBC341	Button, FM/AM Preset Tuning, Selector	10	SUW1821	Bracket, Front Sub Panel Ass'y
1-6	SHR9543	Holder, Button	11	SHG657	Rubber, FL
2	SGX7007	Ornament Button	12	\blacksquare SKCTS6E \circ SKCTS6KE	Cabinet Cover Cabinet Cover (Black)
3	\blacksquare SGX7003-1 \circ SGX7003	Ornament, Left and Right Side Ornament, Left and Right Side (Black)	13	SHG647	Rubber, Power Transformer
4	SBC341	Button, FM IF Band, Mode, Display Muting, Frequency Shift	14	\blacksquare SHR127 \circ SHR129	Bushing, AC Cord Bushing, AC Cord
14 [EK] only			15	\blacksquare SJA88 \circ QFC1205M	AC Cord AC Cord
15 [EK] only					



■ EXPLODED VIEW



Areas

- * [E] and [EX] are available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [EG] is available in F.R. Germany.
- * [EF] is available in France.
- * [EH] is available in Holland.
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- * [EA] is available in Austria.

■ REPLACEMENT PARTS LIST
...Cabinet & Chassis Parts

- Notes:**
- Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - Important safety notice:
Components identified by **Δ** make have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
 - █**-marked parts are used for black type only, while **O**-marked parts are for silver type only.
 - Parts other than **█** and **O**-marked are used for both black and silver types.
 - Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

Black type model No. : ST-S6(K)

Ref. No.		Part No.	Part Name & Description
CABINET and CHASSIS PARTS			
1	O	SGWTS6E	Front Panel Ass'y
1	K	SGWTS6KE	Front Panel Ass'y (Black)
1-1		SHG6063-1	Spacer, Front Panel Ass'y
1-2		SBC343	Button, Tuning and Memory
1-3		SHR9541	Holder, Button
1-4		SHS3229-2	Spacer, Holder
1-5		SBC341	Button, FM/AM Preset Tuning, Selector
1-6		SHR9543	Holder, Button
2		SGX7007	Ornament Button
3	O	SGX7003-1	Ornament, Left and Right Side
3	K	SGX7003	Ornament, Left and Right Side (Black)
4		SBC341	Button, FM IF Band, Mode, Display Muting, Frequency Shift

Ref. No.		Part No.	Part Name & Description
CABINET and CHASSIS PARTS			
5	O	SGXTS6E	Front Sub Panel Ass'y
5	K	SGXTS6KE	Front Sub Panel Ass'y (Black)
6		SBC337	Button, Power Source Switch
7		SUS231-1	Spring, Button
8		SBZ2601	Holder, Button
9		SHR5113	Filter, FL
10		SUW1821	Bracket, Front Sub Panel Ass'y
11		SHG657	Rubber, FL
12	O	SKCTS6E	Cabinet Cover
12	K	SKCTS6KE	Cabinet Cover (Black)
13		SHG647	Rubber, Power Transformer
14	O [EK] only	SHR127	Bushing, AC Cord
14	K [EK] only	SHR129	Bushing, AC Cord
15	O [EK] only	SJA88	AC Cord
15	K [EK] only	QFC1205M	AC Cord

Ref. No.		Part No.	Part Name & Description
SCREWS, WASHERS and NUT			
N1	O	XSS3+8BNS	Screw, \oplus 3 x 8
N1	K	XSS3+8BVS	Screw, \oplus 3 x 8 (Black)
N2		XTB3+8BFZ	Screw, Tapping \oplus 3 x 8
N3		XTS3+8BFZ	Screw, Tapping \oplus 3 x 8
N4		XSS3+6S	Screw, \oplus 3 x 6
N5		XSN3+6S	Screw, \oplus 3 x 6
N6		XWA3B	Washer, Spring ϕ 3
N7		XTB3+8BFZ	Screw, Tapping \oplus 3 x 8
N8		XSN3+8BNS	Screw, \oplus 3 x 8
N9		XWA3BFN	Washer, Spring ϕ 3
N10		XTB3+10BFZ	Screw, Tapping \oplus 3 x 10
N11		XTB3+8BFZ	Screw, Tapping \oplus 3 x 8
ACCESSORIES			
A1		TJB525102	Plug, 300-ohm \rightarrow 75-ohm Impedance Conversion
A2		SSA267	Cord, FM Feeder Antenna
A3		SJS68-1	Plug, F-Type/Ring (Large)
A4		SJSA74	Plug, Coaxial (W/Bind Band) for "5C-2V"
A5		SJP2129-5	Cord, Stereo Pin-Type Connection
A6		SQF10759	Instructions Book, Printed Matter
PACKING PARTS			
P1		SPP647	Polyethylene Bag
P2		SPS3029	Pad, Front
P3		SPS3031-4	Pad, Rear
P4	O [EF] only	SPG3053	Carton Box
P4	K	SPG3069	Carton Box
P4		SPG3059	Carton Box