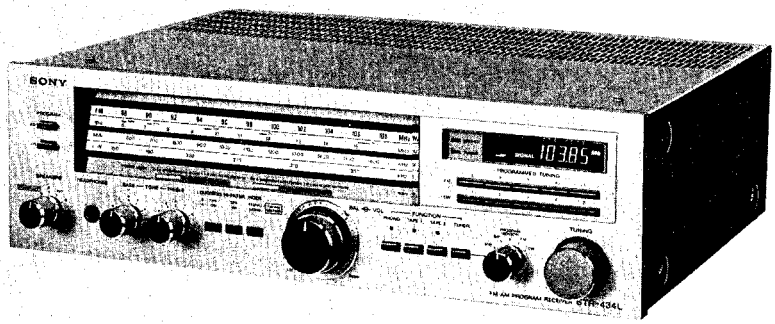
SONY-00495

STR-434L

AEP Model
UK Model
SCN Model



FM-AM PROGRAM RECEIVER

SPECIFICATIONS

GENERAL

System:	Superheterodyne FM/AM tuner, Direct coupled pure-complementary symmetry power amplifier circuit (SEPP OTL)
Power Requirements:	UK model: 240 V ac (or 220 V ac adjustable by authorized Sony personnel), 50 Hz AEP, SCN model: 220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50 Hz
Power Consumption:	UK model: 380 W AEP, SCN model: 290 W
AC Outlets:	Two unswitched, total 200 W (not provided for SCN model)
Dimensions:	Approx. 430 (w) x 135 (h) x 370 (d) mm 17 (w) x 5 1/4 (h) x 14 5/8 (d) inches including projecting parts and controls
Weight:	Approx. 9.3 kg, 20 lb 9 oz (net) Approx. 10.5 kg, 23 lb 3 oz (in shipping carton)

FM TUNER SECTION

Tuning Range:	87.5 – 108 MHz
Antenna Terminals:	300 Ω balanced 75 Ω unbalanced
Intermediate Frequency:	10.7 MHz
Sensitivity at 50dB Quieting:	3.5 μV, 16.1 dB (mono) 45 μV, 38.3 dBf (stereo)
Sensitivity at 46dB Quieting: (at 40kHz deviation)	4.0 μV (mono) 50 μV (stereo)
Usable Sensitivity:	IHF 1.8 μV, 10.3 dBf 1.6 μV (S/N = 26 dB, 40 kHz deviation
Signal-to-noise Ratio:	75 dB (mono) 70 dB (stereo)
Harmonic Distortion:	0.15 % (mono) 0.3 % (stereo) at 1 kHz
IM Distortion:	0.15 % (mono) 0.3 % (stereo)

– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SERVICE MANUAL

Separation: 45 dB at 1 kHz

Frequency Response: 40 Hz – 12.5 kHz $^{+0.5}_{-1}$ dB (DIN)
30 Hz – 15 kHz $^{+0.5}_{-2}$ dB (IHF)

Selectivity at 300kHz: 55 dB
(at 40kHz deviation, S/N = 26dB)

Capture Ratio: 1.0 dB

AM Suppression Ratio: 54 dB

Image Response Ratio: 75 dB

Spurious Response Ratio: 75 dB

Muting Threshold: Approx. 5 μV

SW/MW/LW TUNER SECTION

	SW	MW	LW
Tuning range	5.8 MHz – 15.8 MHz	522 kHz – 1,602 kHz	150 kHz – 350 kHz
Antenna	External antenna terminal	Built-in ferrite rod antenna, External antenna terminal	
Intermediate frequency	450 kHz		
Usable sensitivity	30 μV, external antenna (10 MHz)	250 μV/m, built-in antenna (1,000 kHz) 100 μV, external antenna (1,000 kHz)	500 μV/m, built-in antenna (230 kHz) 100 μV, external antenna (230 kHz)
Signal-to noise ratio	52 dB (5 mV)	52 dB (50 mV/m)	52 dB (50 mV/m)
Harmonic distortion	0.3 % (5 mV, 400 Hz)	0.3 % (50 mV/m, 400 Hz)	0.3 % (50 mV/m, 400 Hz)
Selectivity	50 dB (9 kHz)	50 dB (9 kHz)	50 dB (9 kHz)

AMPLIFIER SECTION

Continuous RMS Power Output: (less than 0.08% THD, both channels driven simultaneously)
at 20 Hz – 20 kHz
40 + 40 W (8 Ω)
40 + 40 W (4 Ω)
at 1 kHz
43 + 43 W (8 Ω)
43 + 43 W (4 Ω)
according to DIN 45500
40 + 40 W (8 Ω)
40 + 40 W (4 Ω)

Dynamic Power Output: (IHF constant power supply method)
130 W (8 Ω)
130 W (4 Ω)

Power Bandwidth (IHF): 10 Hz – 40 kHz

Damping Factor: 20 at 1 kHz, 8 Ω

Harmonic Distortion: Less than 0.08 % at rated output
Less than 0.08 % at 1 W output

Intermodulation (IM) Distortion: (60Hz : 7kHz = 4 : 1)
Less than 0.08 % at rated output
Less than 0.08 % at 1 W output

Residual Noise: Less than 0.08 μW at 8 Ω

Inputs:

	Sensitivity	Impedance	S/N	Weighting network
PHONO	2.5 mV	50 kΩ	80 dB	A
TAPE 1, 2	150 mV	100 kΩ	95 dB	A

Measured with rated output power into 8 Ω loads (both channels driven simultaneously) at 1 kHz.

Outputs (with rated input):

REC OUT 1, 2	Voltage 150 mV Impedance 10 kΩ
HEADPHONES	Accepts all low or high impedance headphones.
SPEAKER	4 – 16 Ω speakers are suitable.

Frequency Response: PHONO
RIAA equalization curve ± 0.5 dB
TAPE 1, 2
10 Hz – 50 kHz $^{+1}_{-3}$ dB

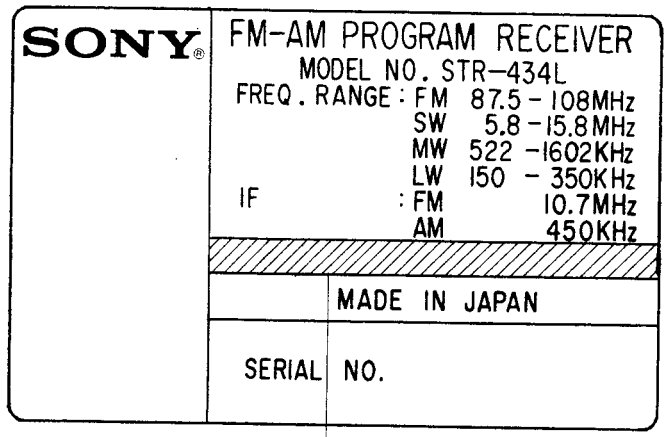
Tone Controls: BASS ± 10 dB at 100 Hz
TREBLE ± 10 dB at 10 kHz

High Filter: 6 dB/oct. above 7.5 kHz

Loudness Control: (att. 30dB)
+6 dB at 100 Hz
+3 dB at 10 kHz

MODEL IDENTIFICATION

– Print on Rear Panel –



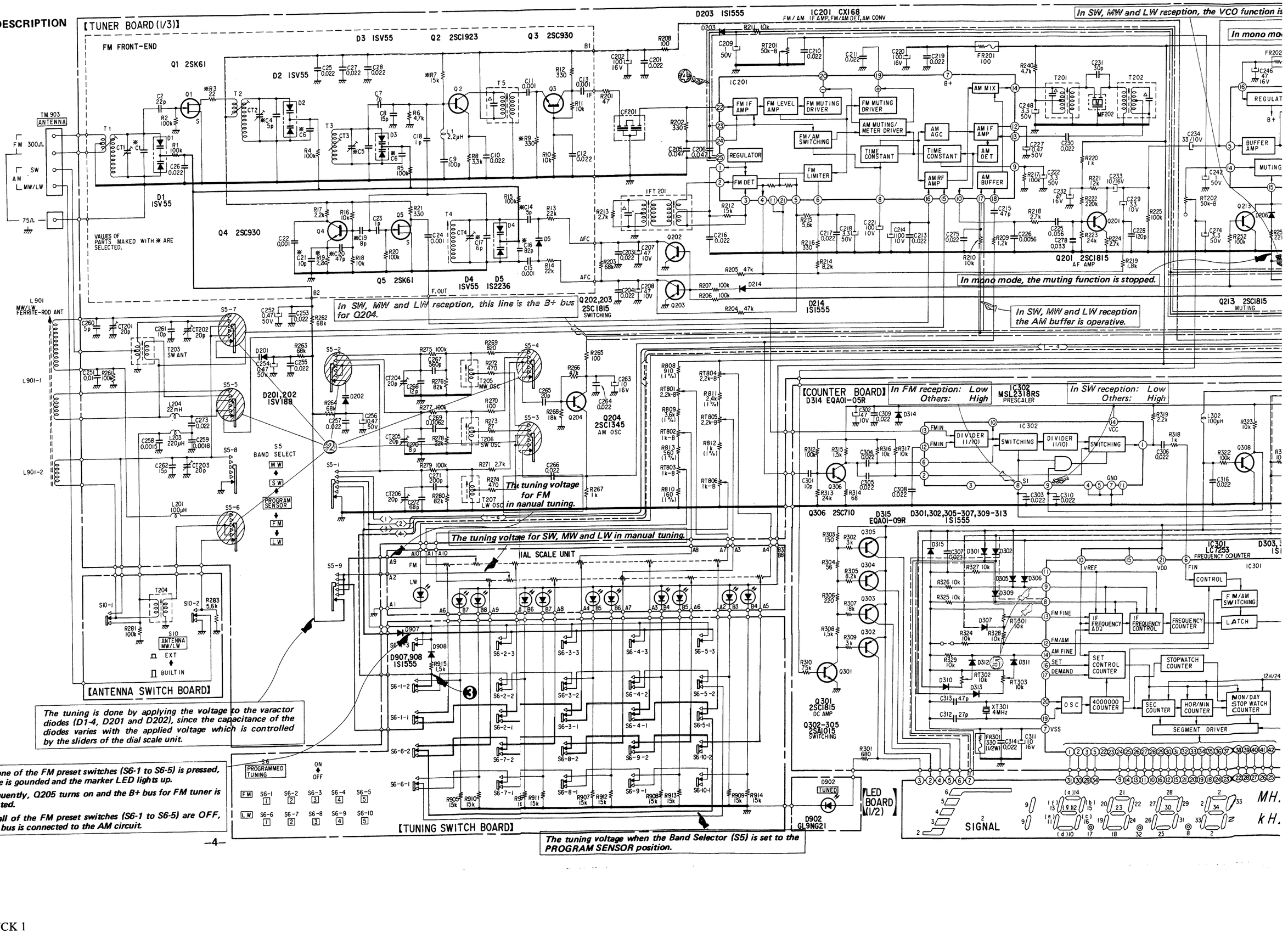
UK MODEL	*AC 240V ~50Hz*	*380W*
AEP MODEL *SCN MODEL*	*AC 220V ~50Hz*	*290W*

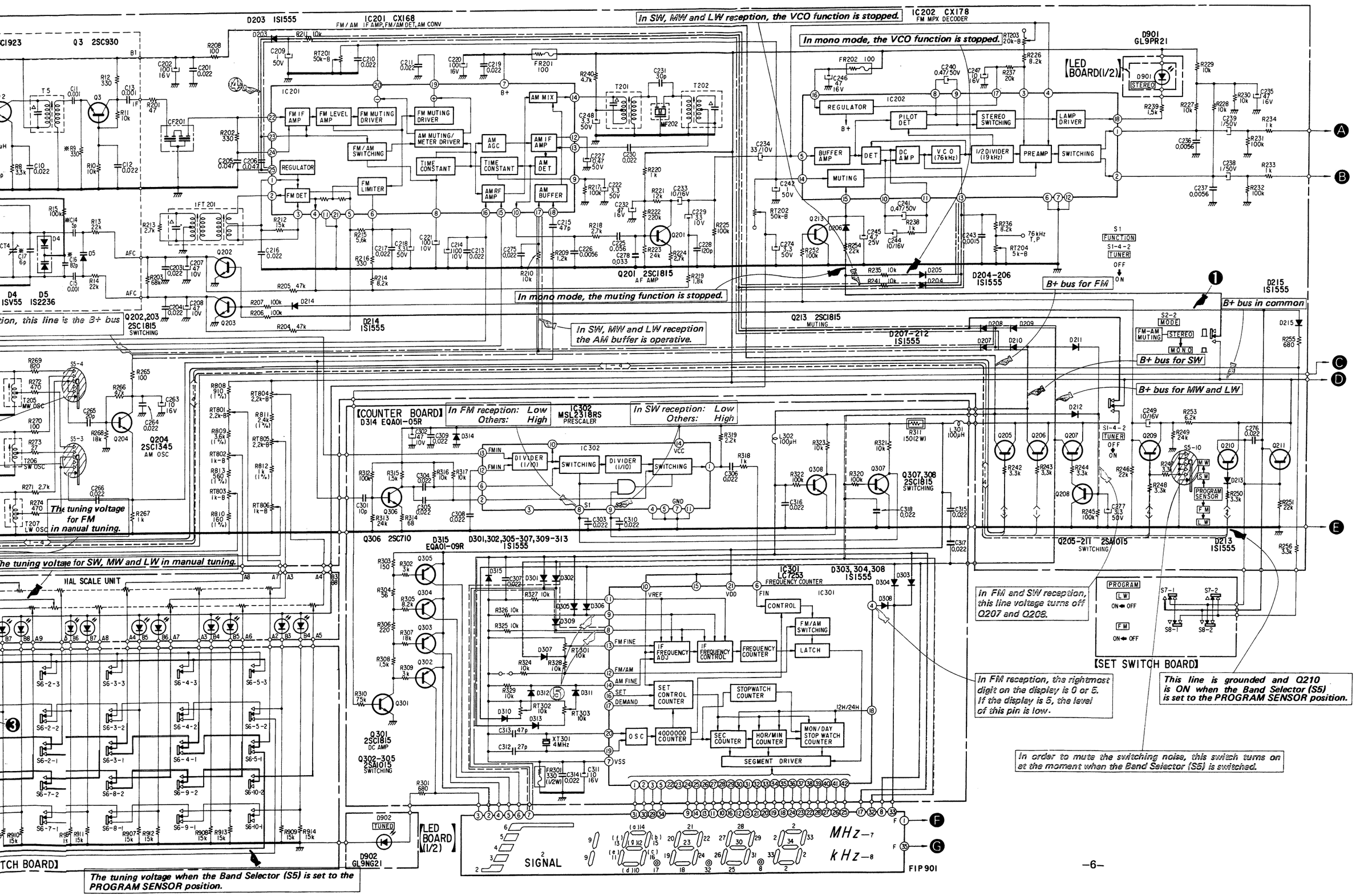
– AC Outlet –

SCN model has no ac outlet.

SECTION 1
OUTLINE

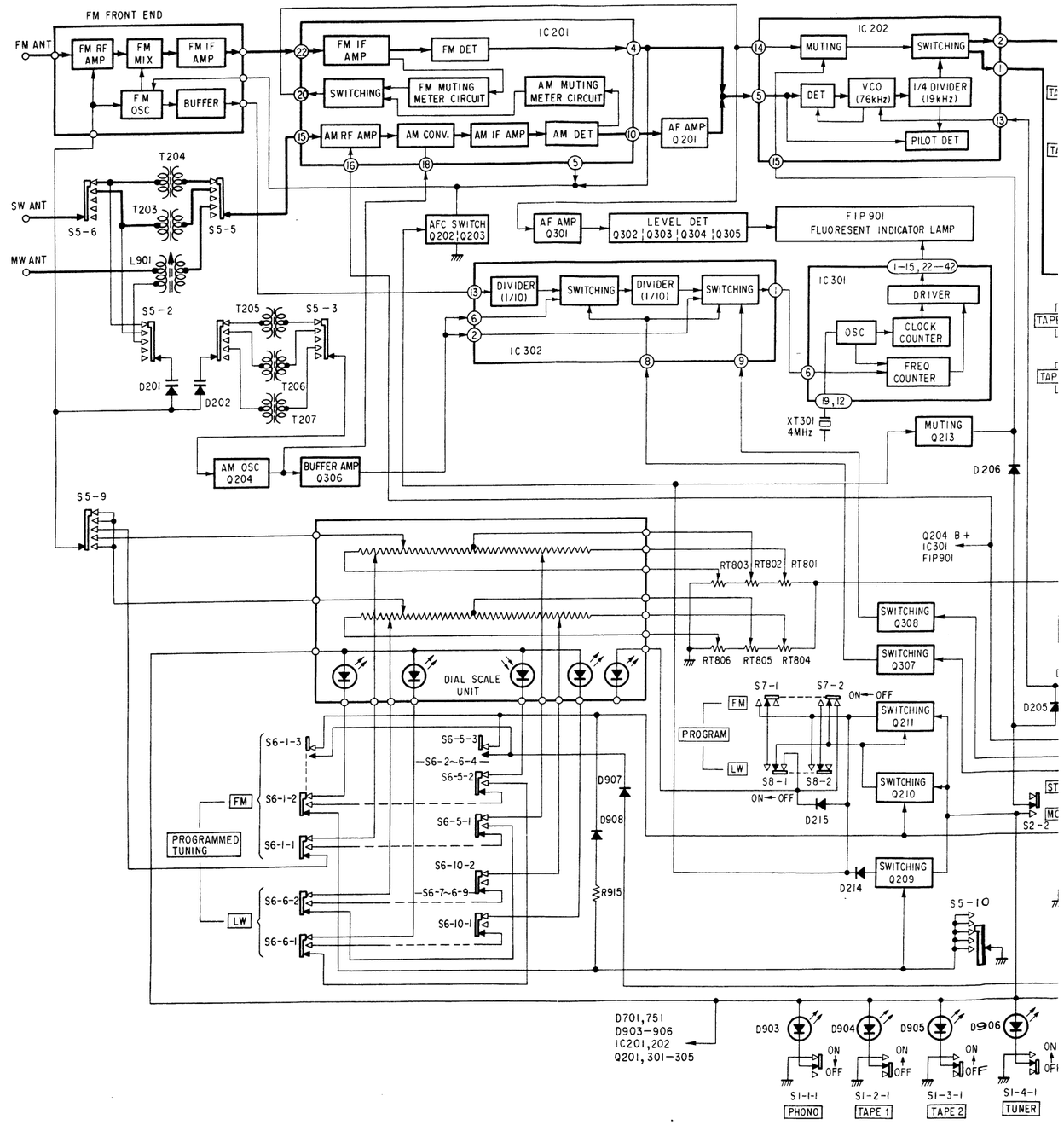
1-1. CIRCUIT DESCRIPTION





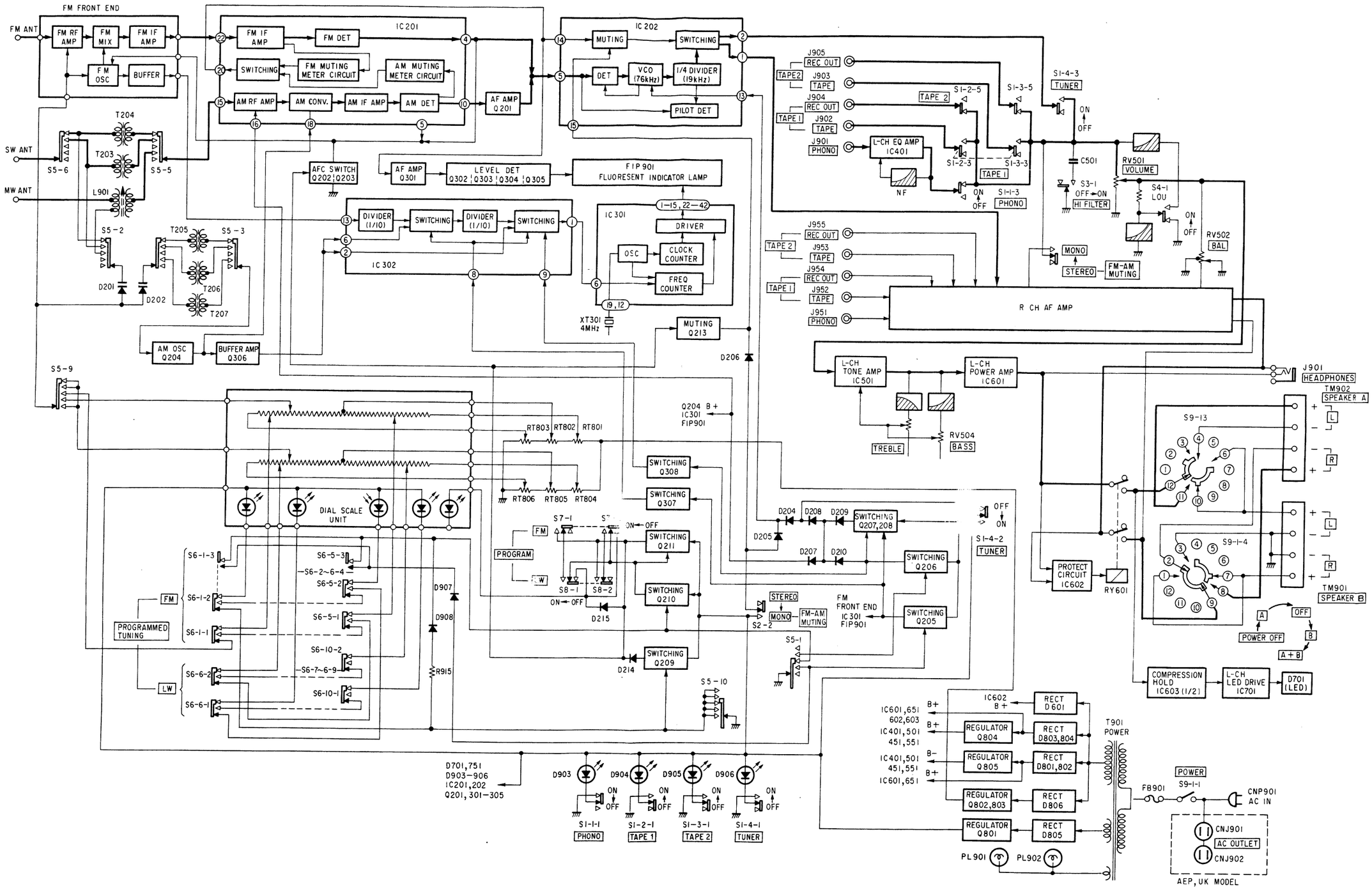
❶	*While keeping the FM PROGRAM button depressed, the voltage supplied to this line turns Q203 and Q202 on, and suspends the AFC function.*
❷	*When the Band Selector (S5) is set to the PROGRAM SENSOR position, a selection of LW or FM mode is done by connecting the B+ bus to the respective circuit.*
❸	*When one of the preset switches (S6-1 to S6-10) is pressed, this line level becomes high so that Q209 turns off and the muting circuit is cut off.* *When all of the preset switches are OFF, Q209 is ON and the muting circuit is active since this line is grounded via R915 and D908.*
❹	*In SW, MW and LW reception, the CX168 function is switched to AM mode.*
❺	*The counter function is switched by this line voltage, depending on the IF frequency either FM IF freq. or AM IF freq.*

1-2. BLOCK DIAGRAM



STR-434L

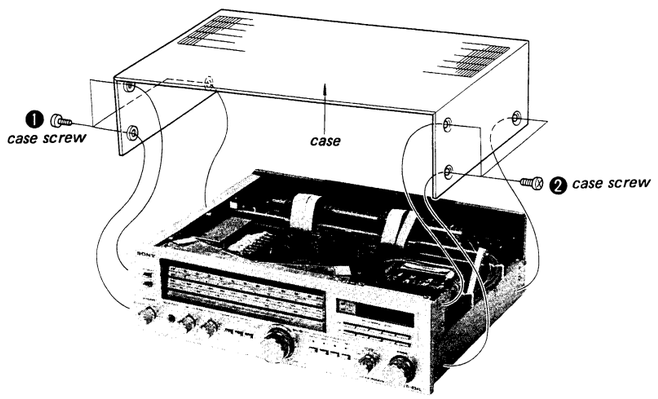
1-2. BLOCK DIAGRAM



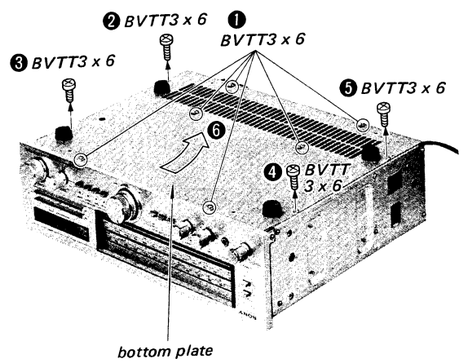
SECTION 2
DISASSEMBLY

- Follow the disassembly procedure in the numerical order given.

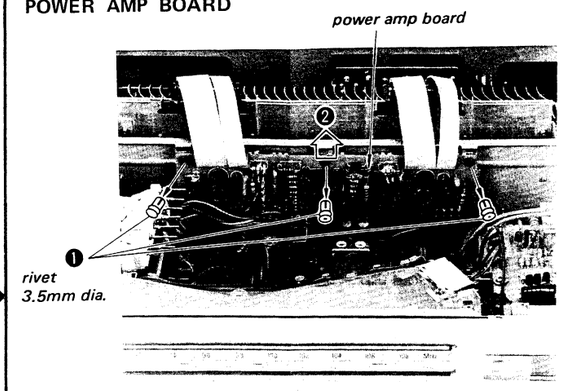
CASE



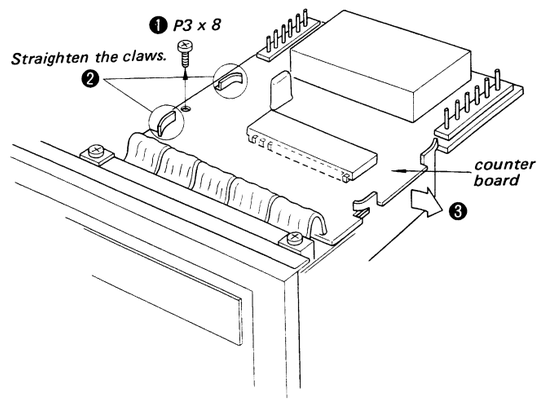
BOTTOM PLATE



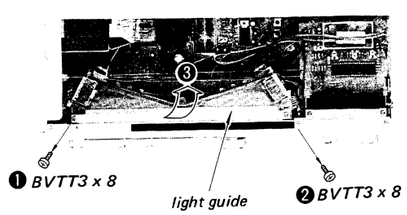
POWER AMP BOARD



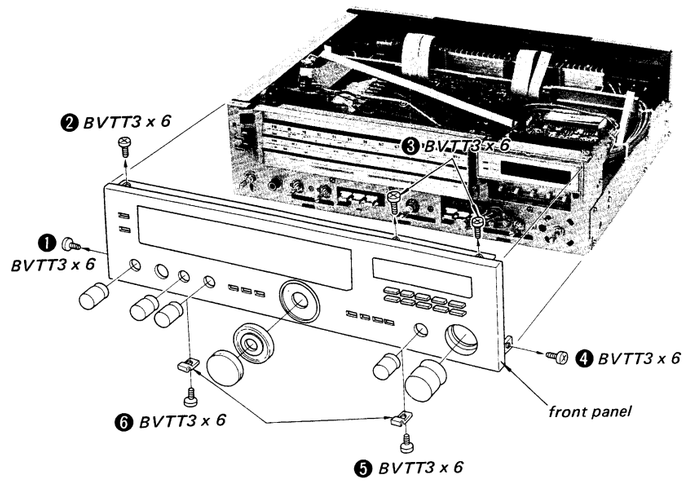
COUNTER BOARD



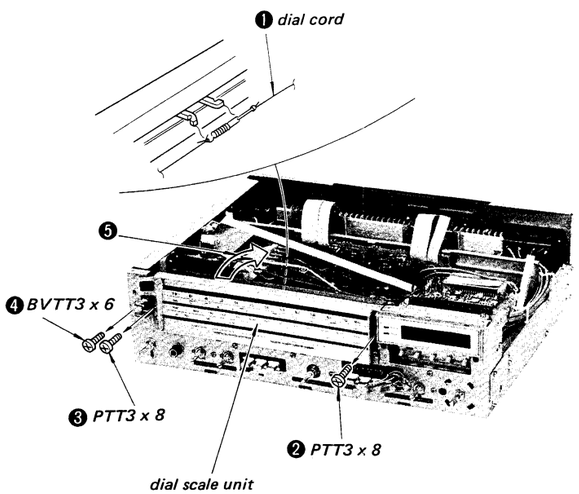
LIGHT GUIDE



FRONT PANEL

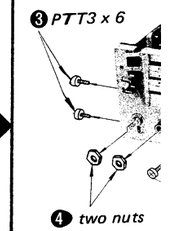


DIAL SCALE UNIT



COUNTER B

SUB-PANEL



METER BOA

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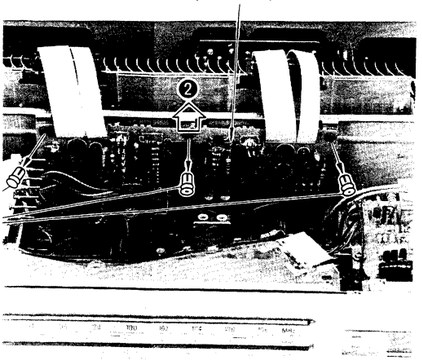
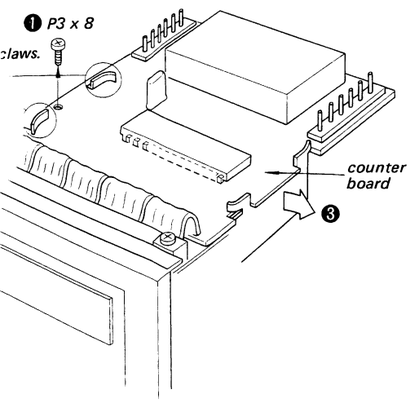
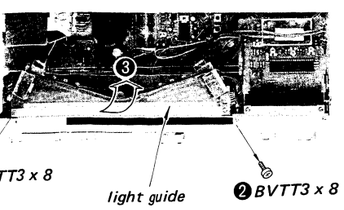
ᵖ BOARD



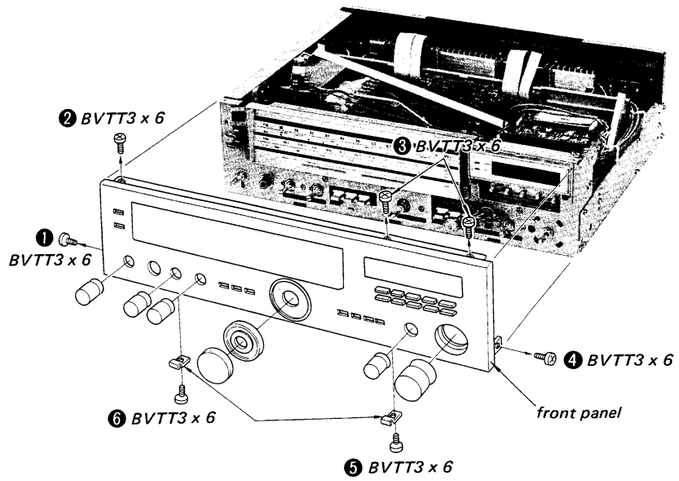
OARD



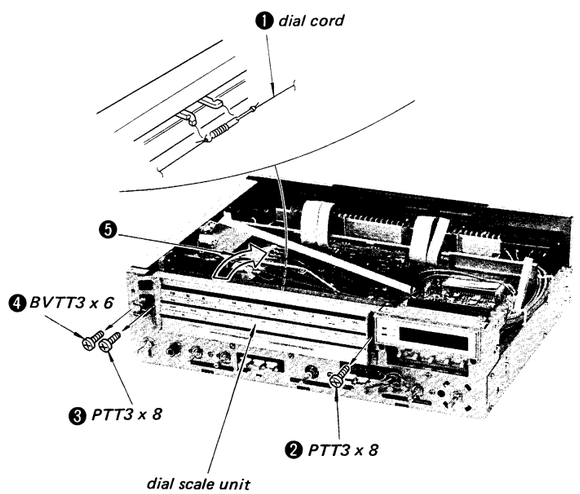
DE



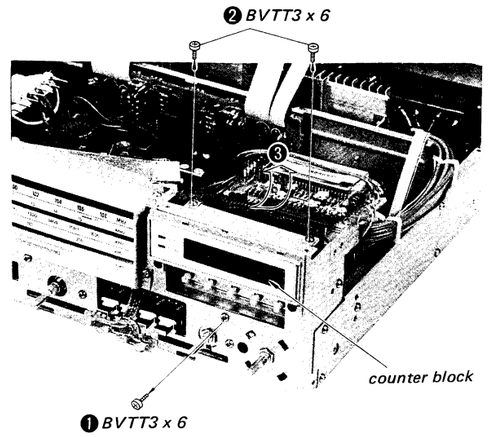
FRONT PANEL



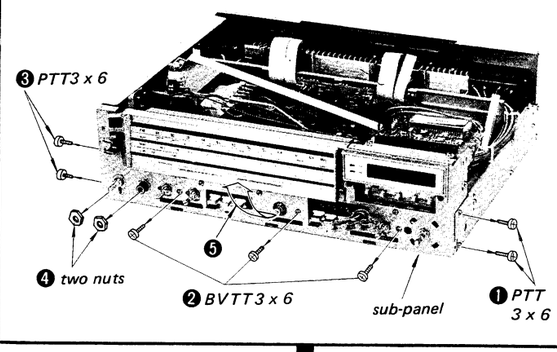
DIAL SCALE UNIT



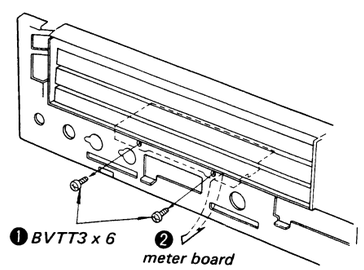
COUNTER BLOCK



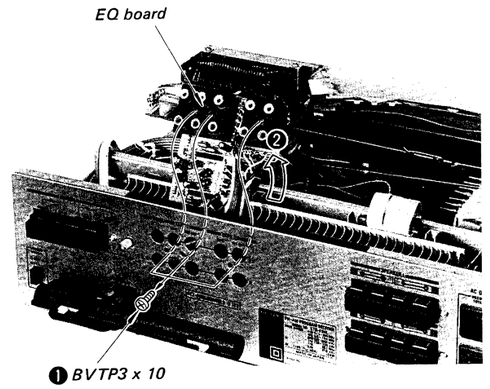
SUB-PANEL



METER BOARD



EQ BOARD



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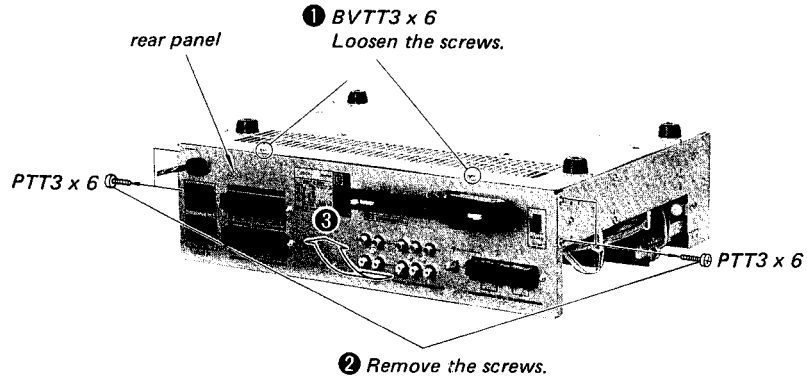
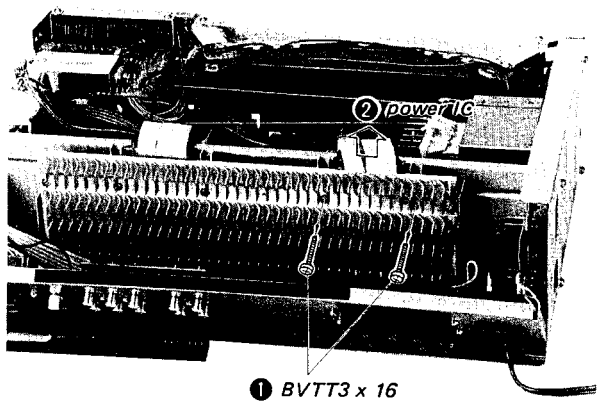
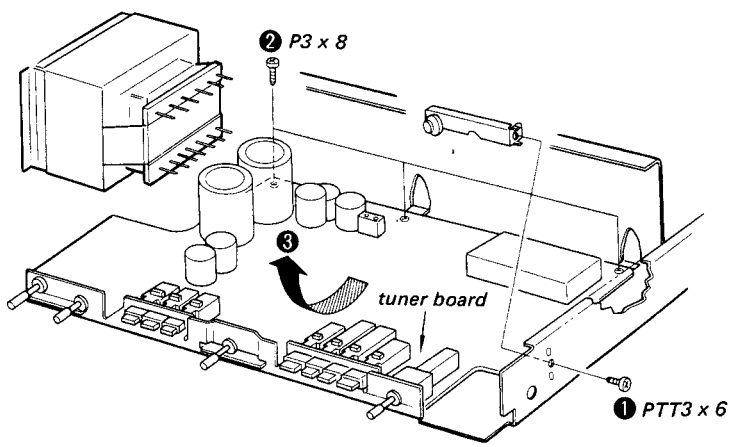
REAR PANEL



POWER IC



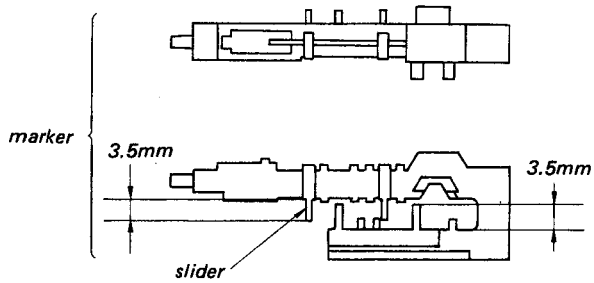
TUNER BOARD

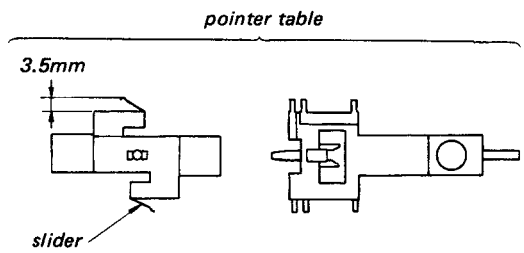


DIAL SCALE UNIT

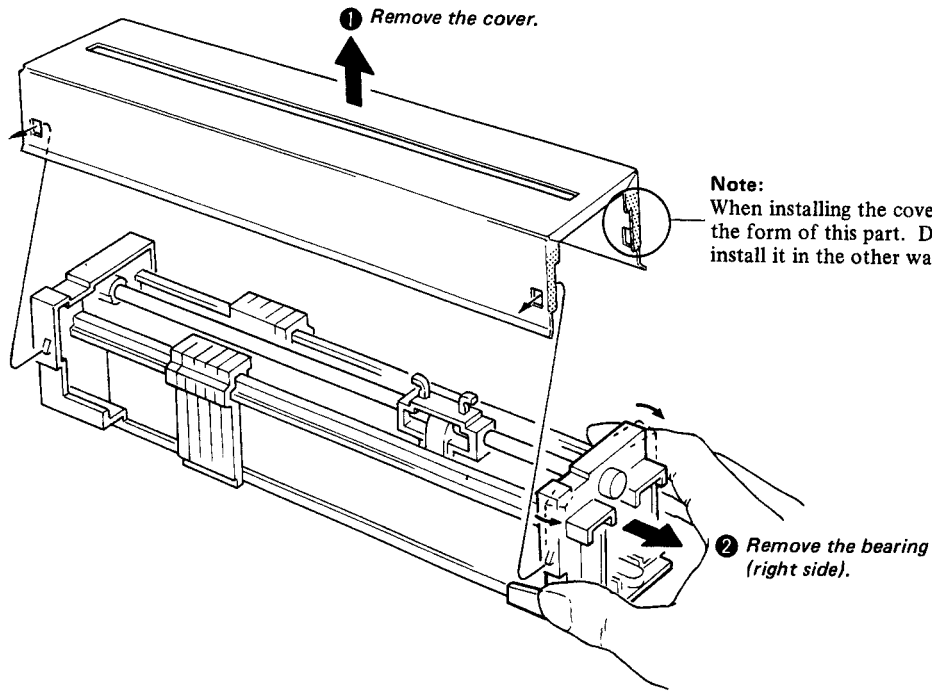
This unit is tuned by moving the sliders of the dial scale unit along the carbon-coated lines of the resistor plates. The sliders should be moved very precisely. So, carefully perform the disassembly and the installation of the dial scale unit as follows. Only the marker and the pointer table are replaceable.

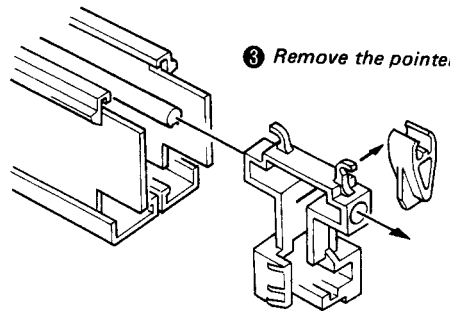
Take care not to damage the sliders shown below.

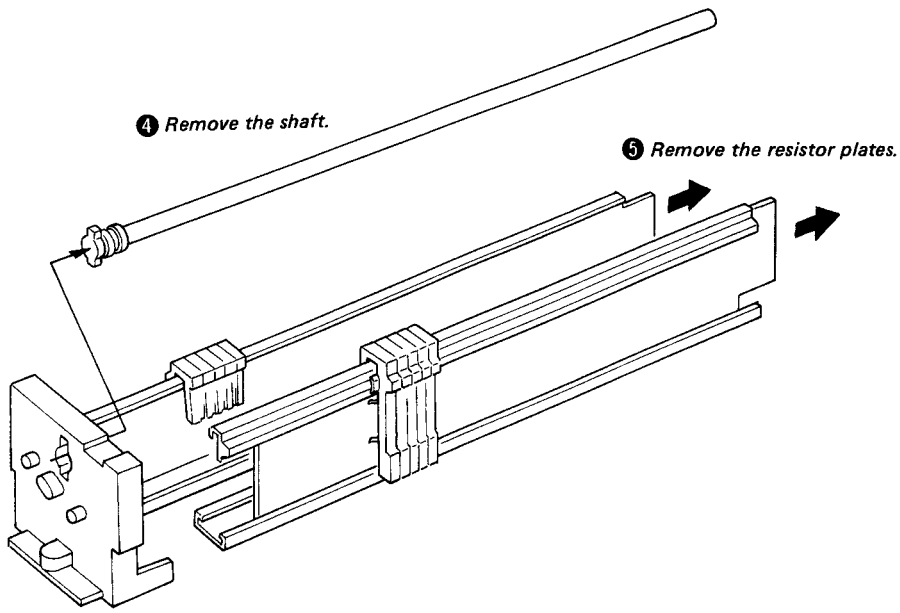




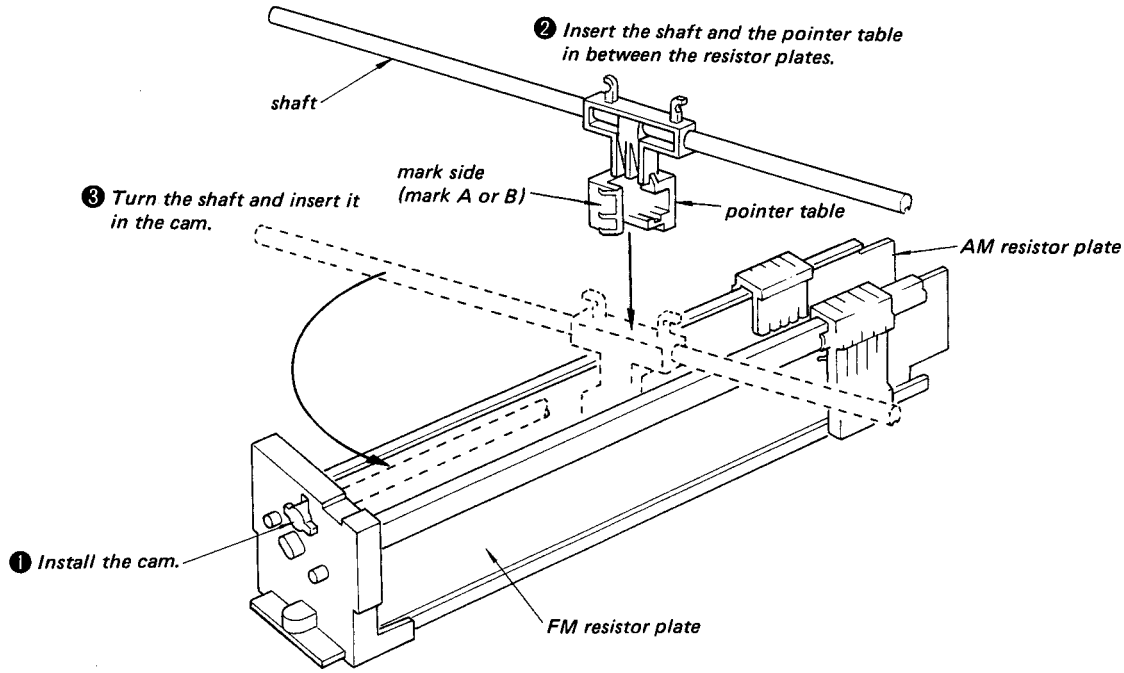
- **Dial Scale Unit Disassembly**



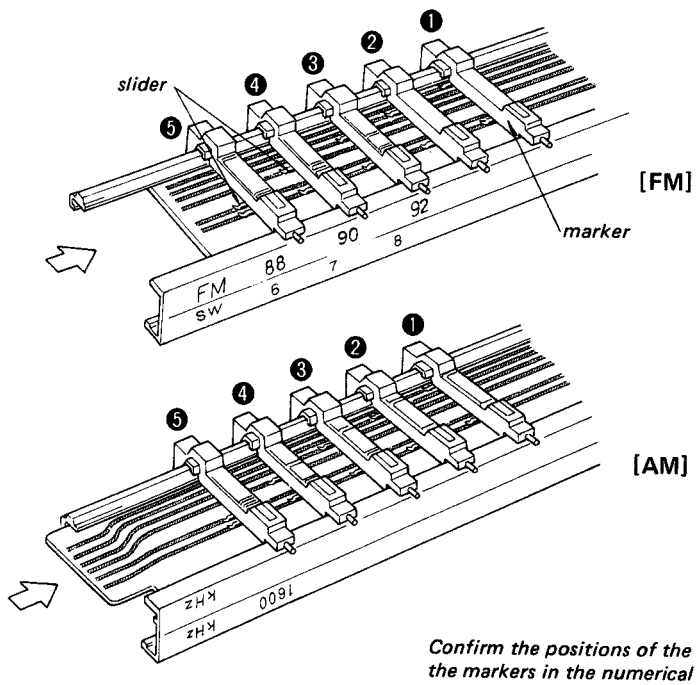




- **Dial Scale Unit Installation**



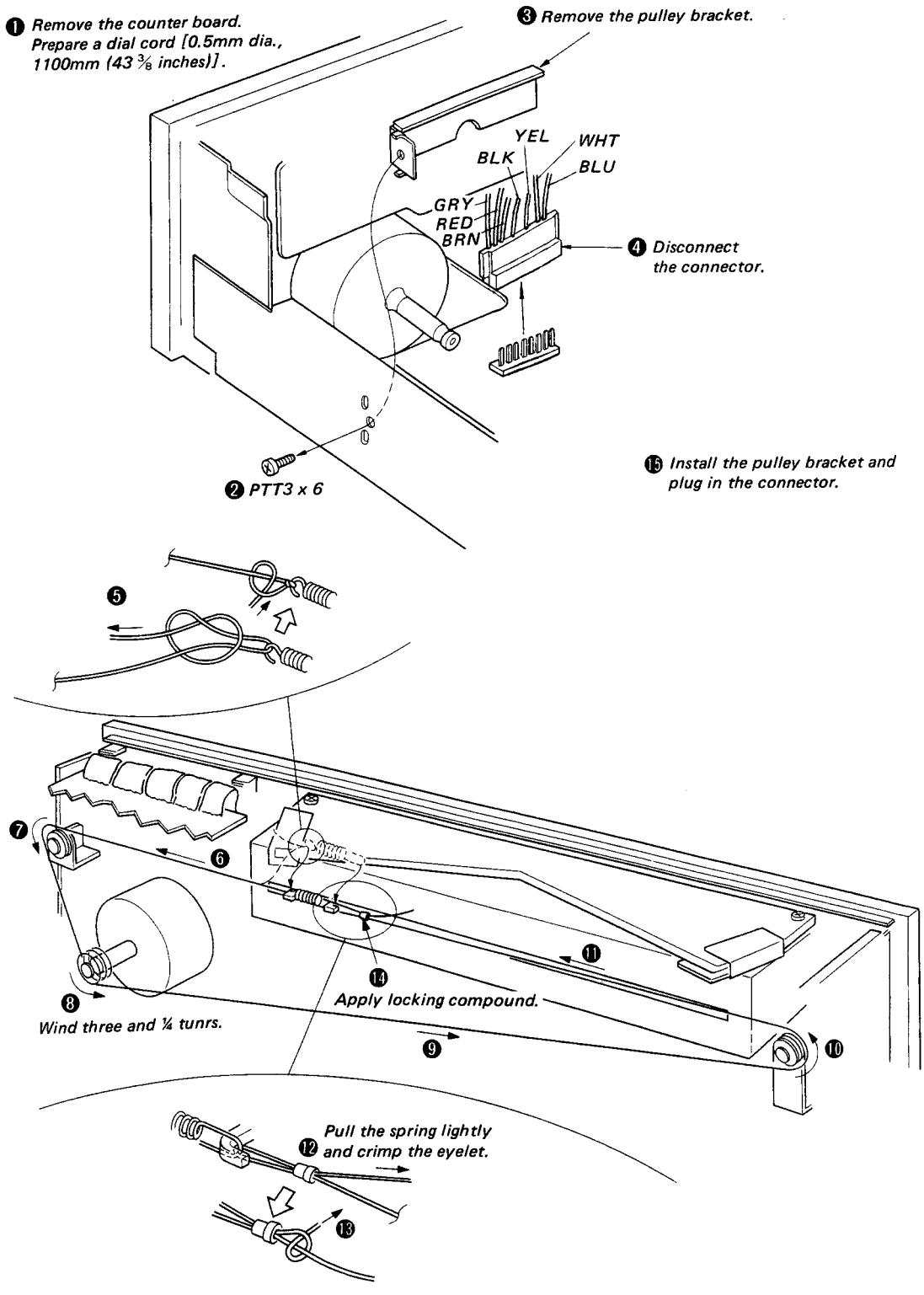
Note:
The installation is performed in this way not to damage the sliders of the pointer table.



Confirm the positions of the sliders and install the markers in the numerical order given. If one of the markers is damaged, replace the five markers together to obtain the same brightness of them.

DIAL CORD STRINGING

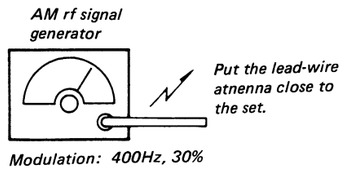
Note:
Befor the dial cord stringing, remove the counter board referring to the pages 10 and 11.

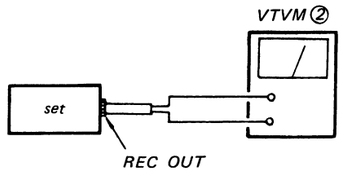


SECTION 3
ADJUSTMENTS

3-1. AM SECTION

Setting: FUNCTION switch: TUNER
Band Selector switch: MW
ANTENNA switch: BUILT IN





AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM ②.	
450kHz	
T202	T201

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

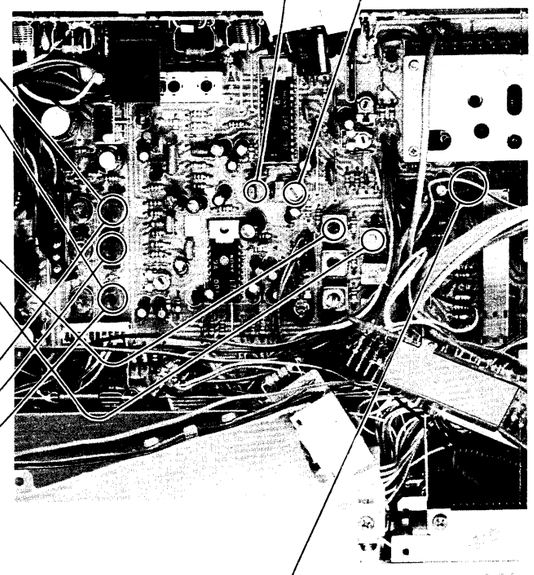
MW FREQUENCY COVERAGE ADJUSTMENT

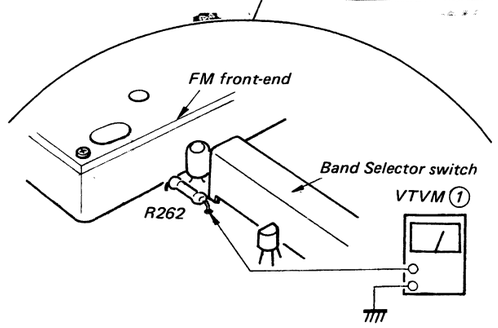
Tuning Control Voltage Adjustment	Dial Indication	VTVM ① Reading	Adjustment Part
	maximum frequency	25V	RT804
	minimum frequency	2V	RT806
	Adjust for a specified reading on VTVM ①.		

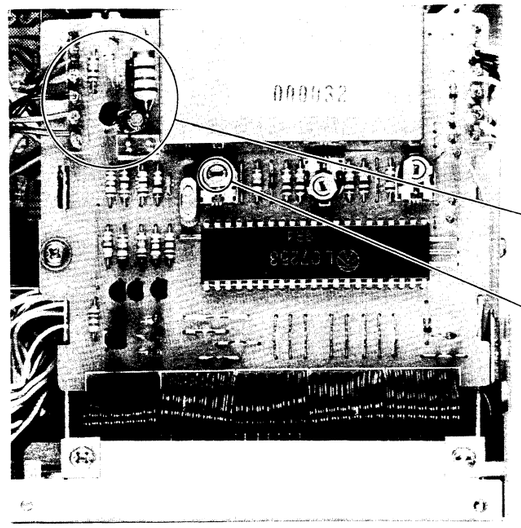
Local Oscillator Frequency Adjustment	Dial Indication	AM Rf Signal Generator Frequency	Adjustment Part
	minimum frequency	515kHz	T205
	maximum frequency	1660kHz	CT204
	Adjust for a maximum reading on VTVM ②.		

Dial Pointer Setting	Dial Indication	AM Rf Signal Generator Frequency	Adjustment Part
	600kHz	600kHz	RT804
	1000kHz	1000kHz	RT805
	1400kHz	1400kHz	RT806
	Adjust for a maximum reading on VTVM ②.		

Note:
Be sure to perform the LW and the SW frequency coverage adjustments after the tuning control voltage adjustment.



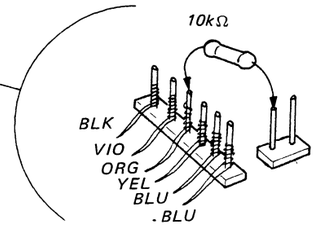




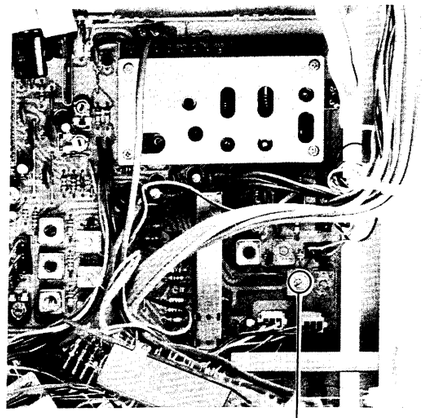
MW FREQUENCY INDICATION ADJUSTMENT

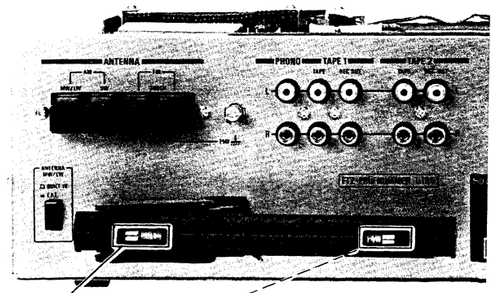
Setting: AM Rf Signal Generator: 1000 kHz
Procedure:

1. Set the Band Selector switch to the MW position and connect a 10kΩ carbon resistor as shown below.



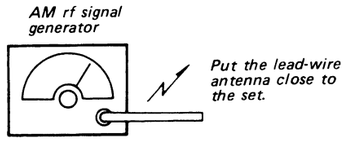
2. Tune the unit to the 1000.0kHz signal precisely and adjust RT302 so that the rightmost digit on the display stops flickering.

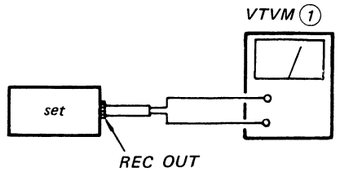




MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM ②.	
L901-1	600kHz
CT201	1,400kHz

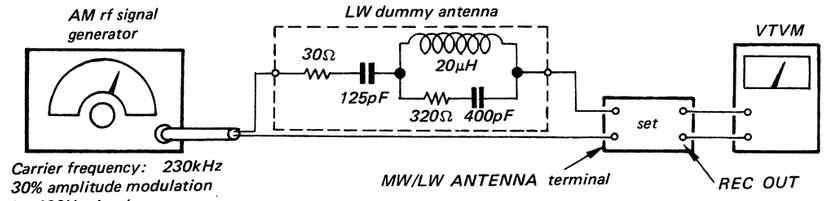
Setting: FUNCTION switch TUNER
Band Selector switch: LW
ANTENNA switch: BUILT IN



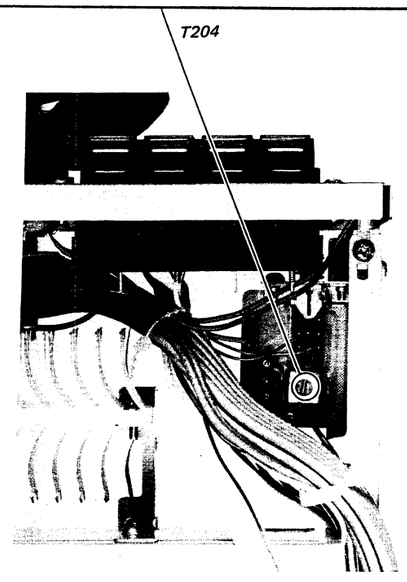


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW/LW EXT ANTENNA COIL ADJUSTMENT

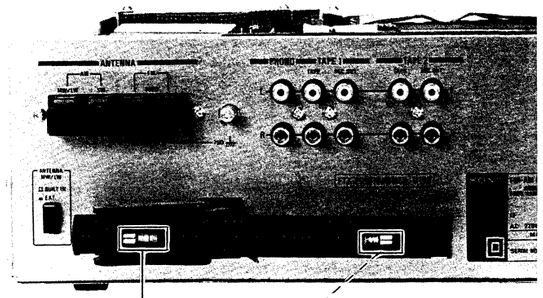


1. Set the ANTENNA switch to EXT position.
2. Tune the set to 230kHz and adjust T204 for a maximum reading on VTVM .



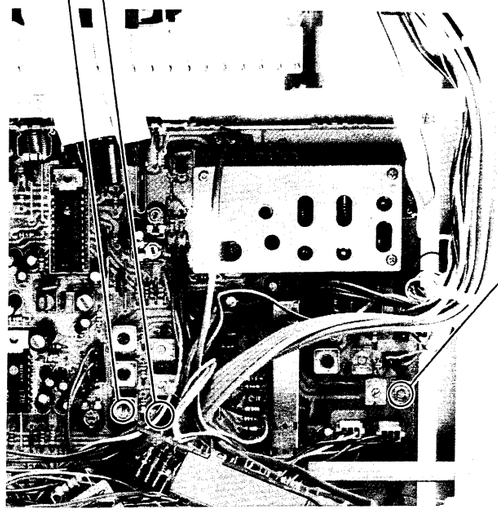
LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM ① .	
145kHz	T207
365kHz	CT206

Note:
Before this adjustment, perform the MW frequency coverage adjustment.



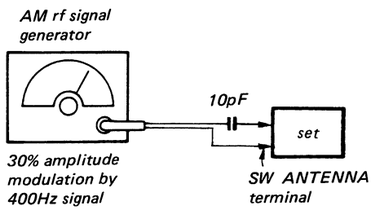
AEP model:
Serial No. 501,000 and later

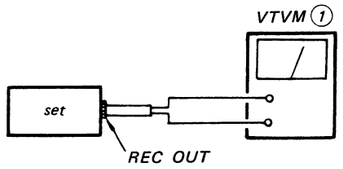
AEP model:
Serial No. 500,000 – 501,001
UK model
SCN model



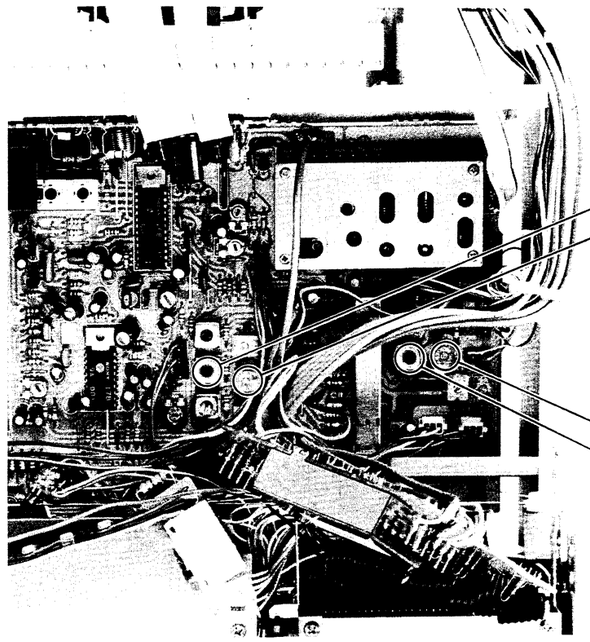
L901-2	170kHz
CT203	310kHz
Adjust for a maximum reading on VTVM ① .	
LW TRACKING ADJUSTMENT	

Setting: FUNCTION switch: TUNER
Band Selector switch: SW





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.



SW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM (1).	
T206	5.5MHz
CT205	16.1MHz

Note:
Before this adjustment, perform the MW frequency coverage adjustment.

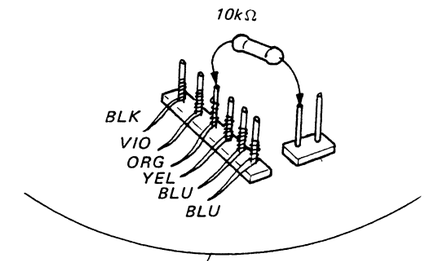
SW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM (1).	
CT202	16.1MHz
T203	5.5MHz

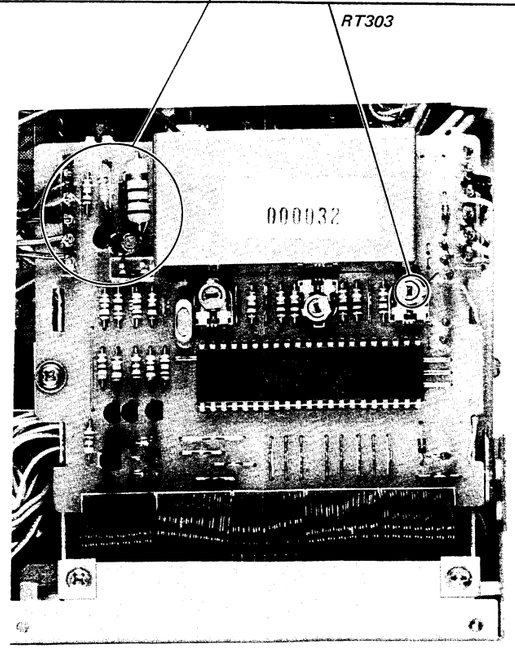
SW FREQUENCY INDICATION ADJUSTMENT

Setting: AM Rf Signal Generator: 10,000 MHz

Procedure:

1. Set the Band Selector switch to the SW position and connect a 10kΩ carbon resistor as shown below.
2. Tune the unit to the 10.000MHz signal precisely and adjust RT303 so that the rightmost digit on the display stops flickering.

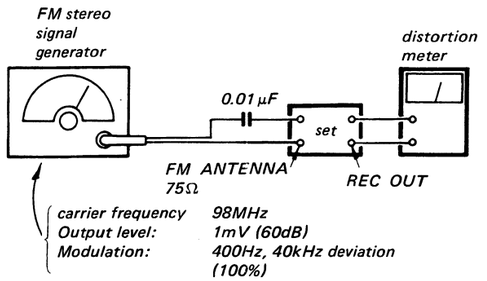




3-2. FM SECTION

FM DISCRIMINATOR ALIGNMENT 2

Setting: FUNCTION switch: TUNER
Band Selector switch: FM
MODE switch: MONO

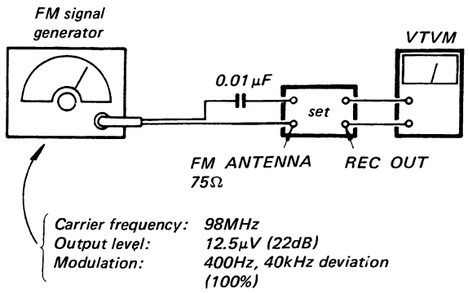


Procedure:

Adjust the black core (secondary side) of IFT201 for minimum distortion.

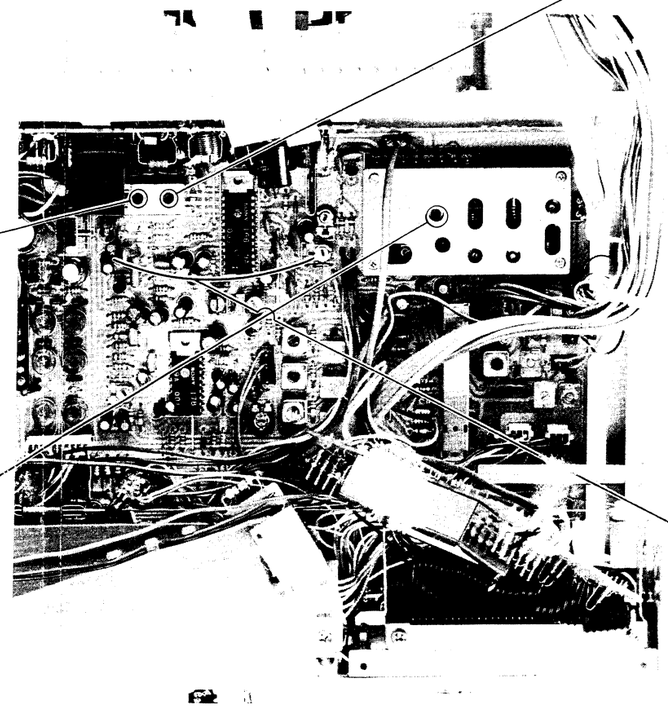
FM IF ALIGNMENT

Setting: FUNCTION switch: TUNER
Band Selector switch: FM
MODE switch: MONO



Procedure:

Adjust T5 for a maximum reading on VTVM.



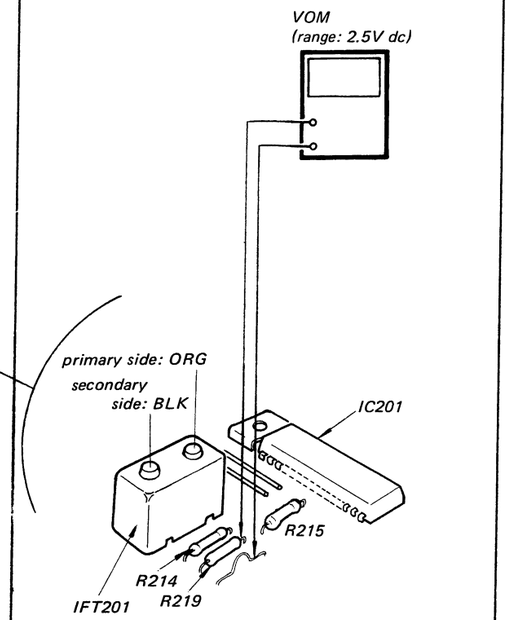
FM DISCRIMINATOR ALIGNMENT 1

Setting: FUNCTION switch: TUNER
Band Selector switch: FM
MODE switch: MONO
TUNING: Detuned position

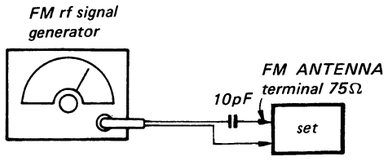
Procedure:

Adjust the orange core (primary-side) of IFT201 for 0V reading on VOM.

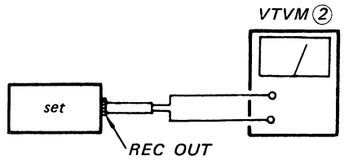
Note: When replacing the ceramic filter (CF201), perform this alignment.



Setting: FUNCTION switch: TUNER
Band Selector switch: FM
MODE Selector: MONO



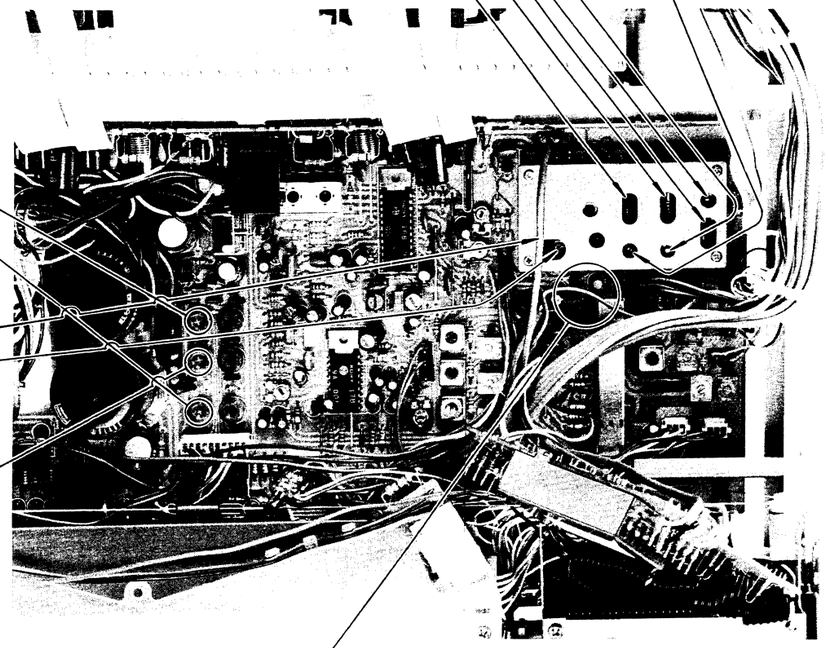
Modulation: 400Hz, 40kHz deviation (100%)

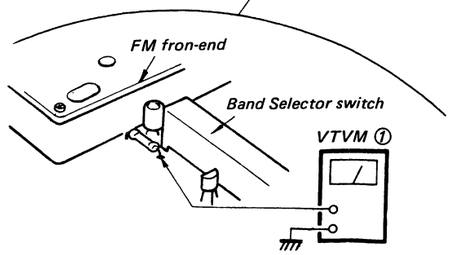


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM ② .	
T3	88MHz
T2	
T1	
CT1	108MHz
CT2	
CT3	

FM FREQUENCY COVERAGE ADJUSTMENT			
Tuning Control Voltage Adjustment	Dial Indication	VTVM ① Reading	Adjustment Part
	maximum frequency	22.08V	RT801
	minimum frequency	2.73V	RT803
	Adjust for a specified reading on VTVM ① .		
Local Oscillator Frequency Adjustment	Dial Indication	FM Rf Signal Generator Frequency	Adjustment Part
	minimum frequency	88MHz	T4
	maximum frequency	108MHz	CT4
	Adjust for a maximum reading on VTVM ② .		
Dial Pointer Setting	Dial Indication	FM Rf Signal Generator Frequency	Adjustment Part
	98MHz	98MHz	RT802
	Adjust for a maximum reading on VTVM ② .		



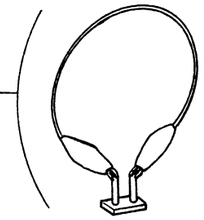


FM FREQUENCY INDICATION ADJUSTMENT

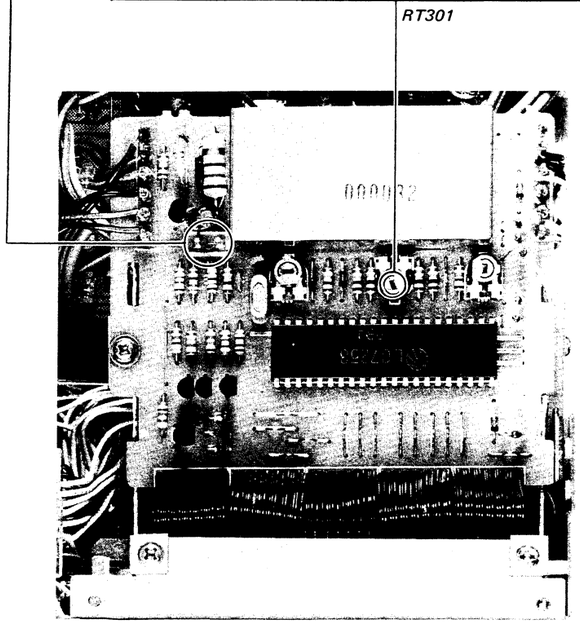
Setting: FM Rf Signal Generator: 98.0 MHz

Procedure:

1. Set the Band Selector switch to the FM position and connect a lead wire as shown below.



2. Tune the unit to the 98.0MHz signal precisely and adjust RT301 so that the rightmost digit on the display stops flickering.



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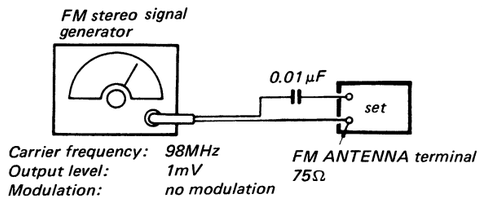
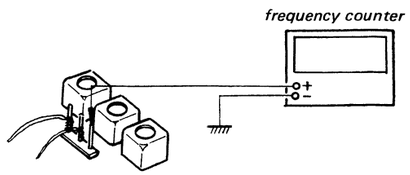
VCO ADJUSTMENT

Setting: FUNCTION switch: TUNER
Band Selector switch: FM
MODE switch: STEREO/FM-AM MUTING

A) Regular Method





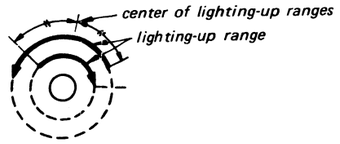
Procedure:

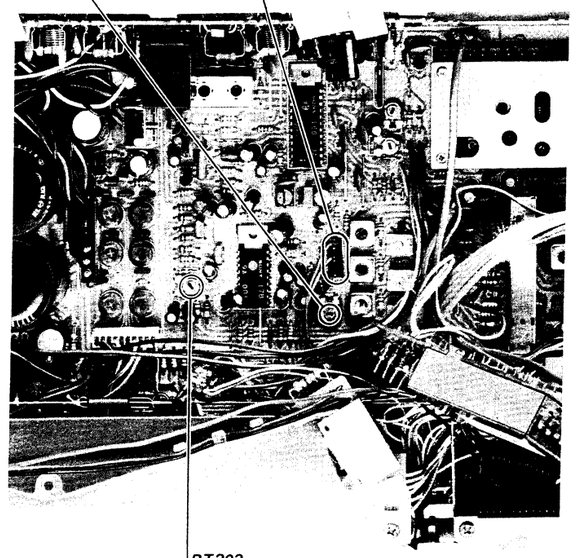
Adjust RT204 for 76kHz ±100Hz on the frequency counter.

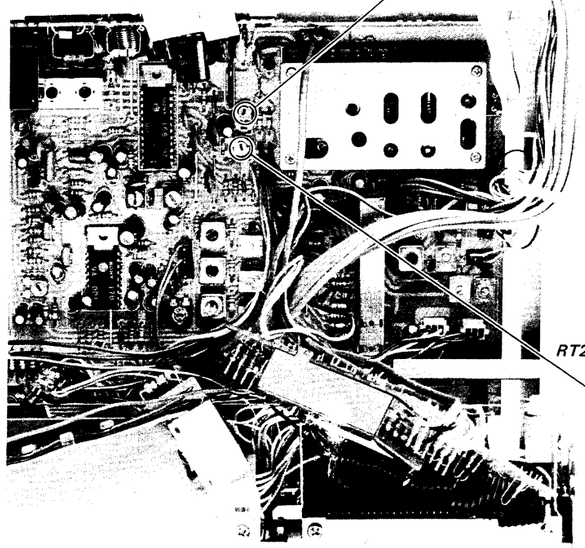
B) Simple Method

Procedure:

1. Turn the set to the FM stereo broadcasting signal.
2. Turn RT204 clockwise or counterclockwise and memorize the lighting-up range of STEREO lamp.
3. Secure at the center in lighting-up range of both turns as shown below.



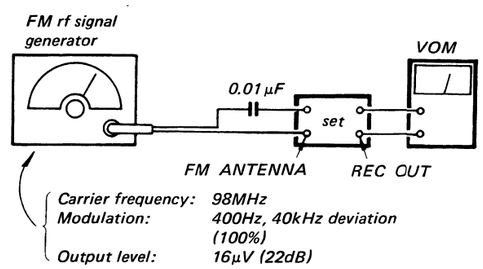




MUTING LEVEL ADJUSTMENT

Setting: FUNCTION switch: TUNER
Band Selector switch: FM
MODE switch: STEREO/FM-AM MUTING

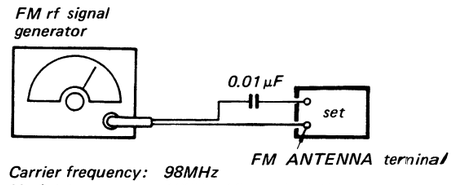
Procedure:



Turn RT201 and stop it just when the VOM indication suddenly decreases.

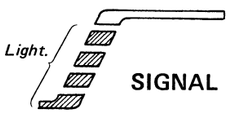
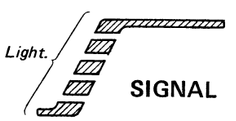
SIGNAL METER CALIBRATION

Setting: FUNCTION switch: TUNER
Band Selector switch: FM



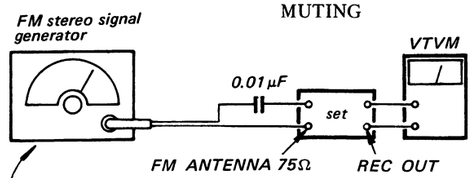
Procedure:

Adjust RT202 for the specified meter indication.

Generator Output Level	Meter Indication
100µV (40dB)	
1000µV (60dB)	

FM STEREO SEPARATION ADJUSTMENT

Setting: FUNCTION switch: TUNER
Band Selector switch: FM
MODE switch: STEREO/FM-AM MUTING



Carrier frequency: 98MHz
Output level: 1mV (60dB)
Modulation:
Audio (400Hz): 20kHz deviation (50%)
Pilot (19kHz): 6.3kHz deviation (16%)
Sub channel (38kHz): 20kHz deviation (50%)

Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT203 resistor for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT203 resistor for minimum reading.

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

The separations of both channels should be equal.

The difference between separations Ⓐ–Ⓑ and Ⓒ–Ⓓ are to be equal.

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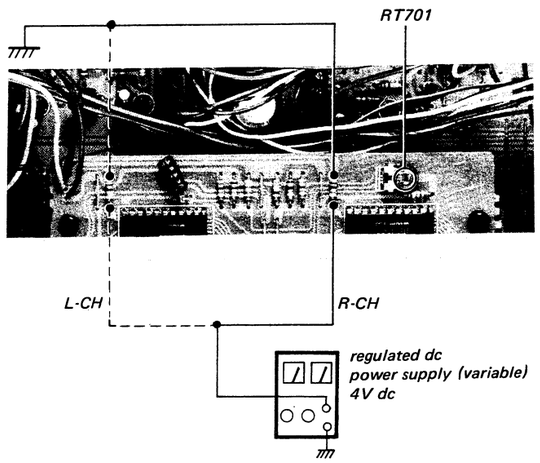
POWER LEVEL METER BRIGHTNESS ADJUSTMENT

Procedure:

Adjust RT701 for the same brightness of L-CH and R-CH power level meters.

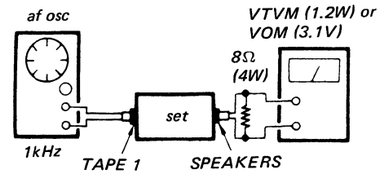
Adjustment Location: meter board



POWER LEVEL METER CALIBRATION

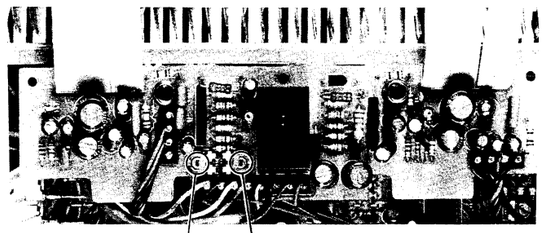
Setting: FUNCTION switch: TAPE 1
MODE switch: STEREO/FM-AM MUTING

Procedure:



1. Adjust the VOL and the BAL controls for a 1.2W VTVM reading or a 3.1V VOM reading. (for both channels)
2. Adjust RT601 (L-CH) and RT651 (R-CH) so that the power level meter indicates 1.2W.

Adjustment Location: power amp board

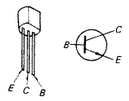


SECTION 4
DIAGRAMS

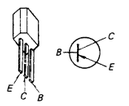
Replacement Semiconductors

For replacement, use semiconductors except in ( ).

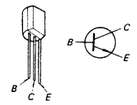
Q201–203, 213, 301, Q307, 308, 802 : 2SC1364 (2SC1815)
Q204 : 2SC1345



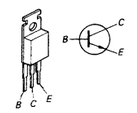
Q205–211, 302–305, Q803 : 2SA1015



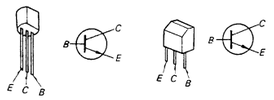
Q306: 2SC710



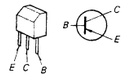
Q801: 2SC1173



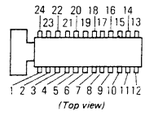
Q804: 2SC1475 (2SD571)



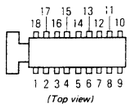
Q805: 2SB605



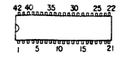
IC201: CX168



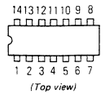
IC202: CX178



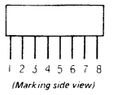
IC301: LC7253



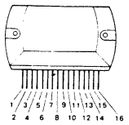
IC302: MSL2318RS



IC401, 451, IC501, 551 : HA1457

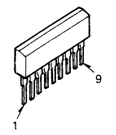


IC601, 651: SI1340H

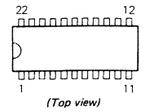


IC602: HA12002

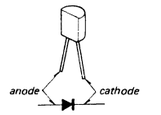
IC603: TA7318P



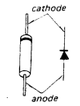
IC701, 751: IR2406G



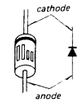
D201, 202: ISV118



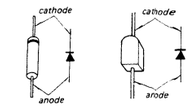
D203–215, 301–313, D813–815, 907, 908 : 1S1555



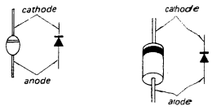
D314, 808 : EQB01-05 (EQA01-05R)
D315 : EQB01-09 (EQA01-09R)
D807 : EQB01-16 (EQA01-16R)
D809, 810 : EQB01-22 (EQA01-22R)



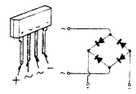
D601, 602, 806: 10E2 (RA1Z)



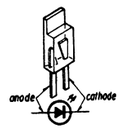
D801–804: U05G (S2V20)



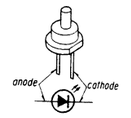
D805: SIVB20 (SIVB10)



D901: GL9PR21
D902: GL9NG21



D903–906: GL2HY1

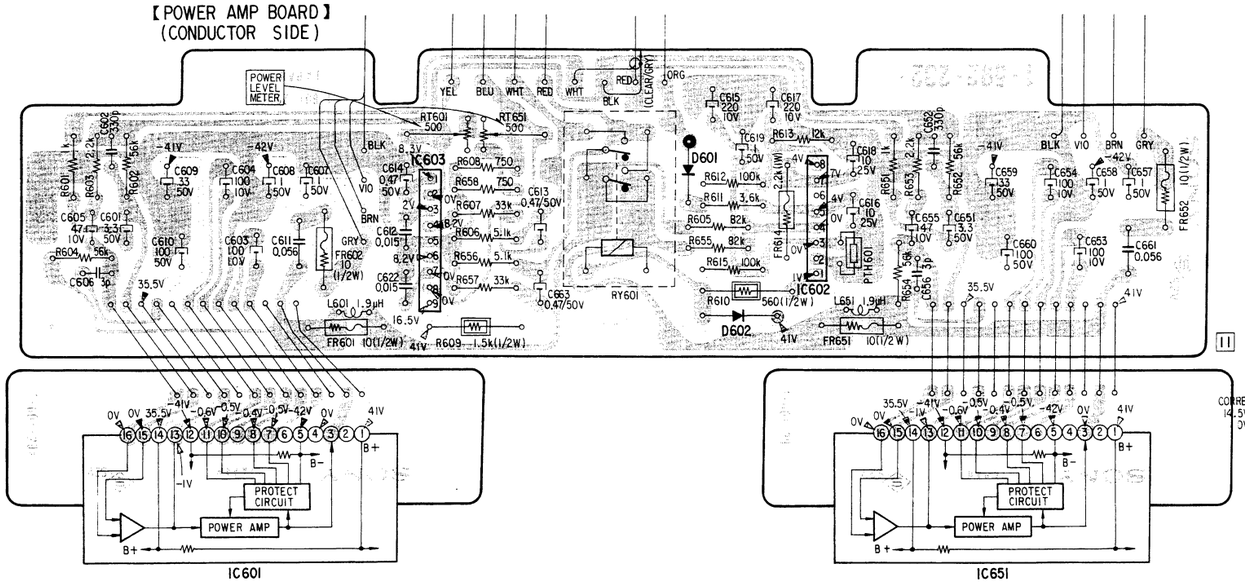


SONY 004951DRUCK-15

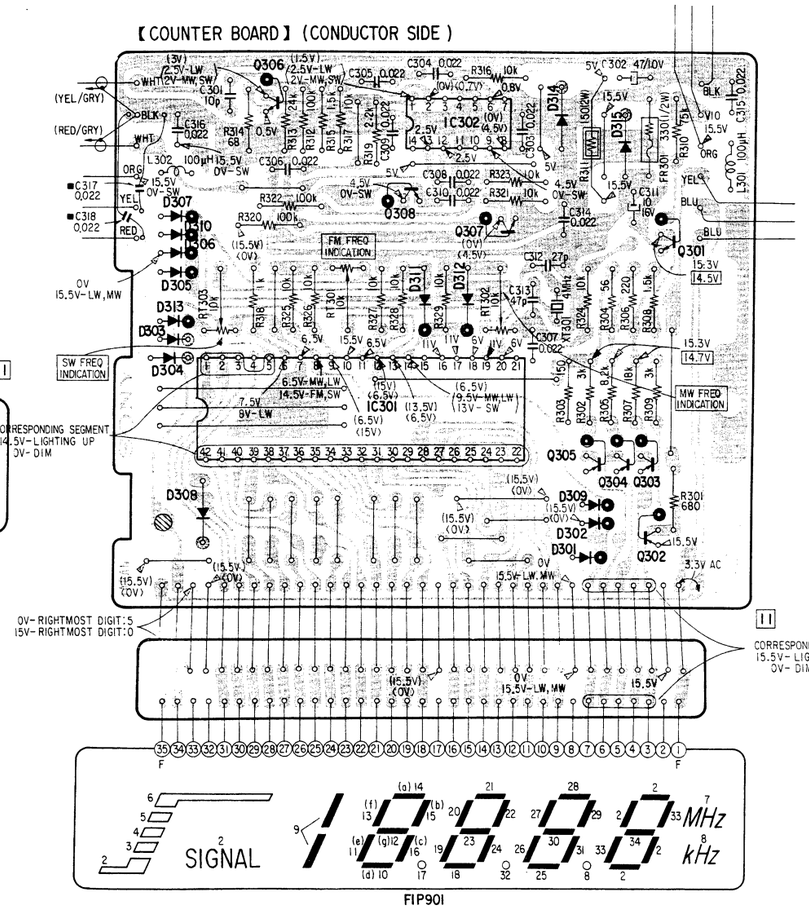
4-1. MOUNTING DIAGRAM

– Conductor Side –

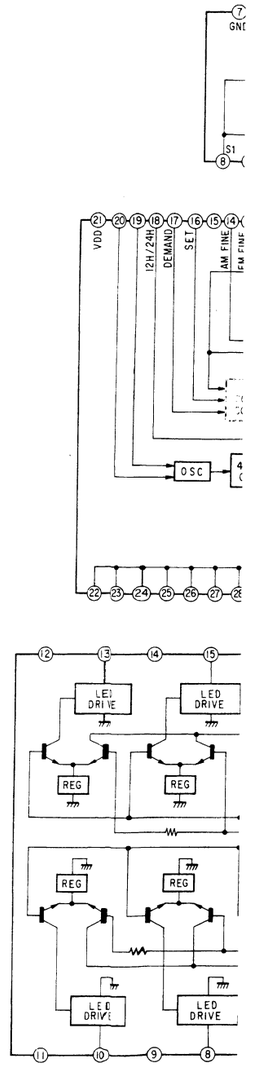
【POWER AMP BOARD】
(CONDUCTOR SIDE)



【COUNTER BOARD】(CONDUCTOR SIDE)

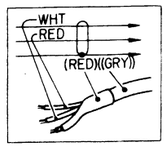


Q, IC	D
306	
IC302	314
	315
308	
307	307
301	310
	306
	305
	311,312
	313
	303
	304
IC301	
303-305	
	308 309
302	302
	301



Note:

- Color code of sleeving over the end of the jacket.



- ○——: parts extracted from the component side.
- ●——: parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ○ ▒▒ : B+ pattern.

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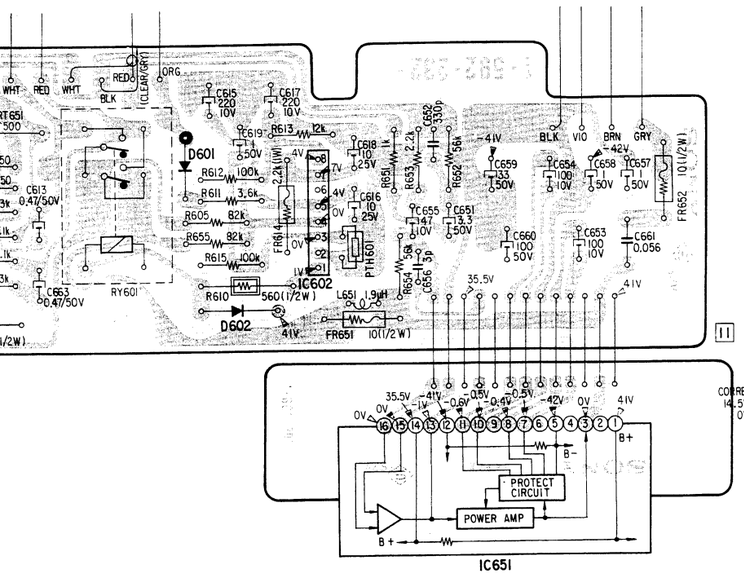
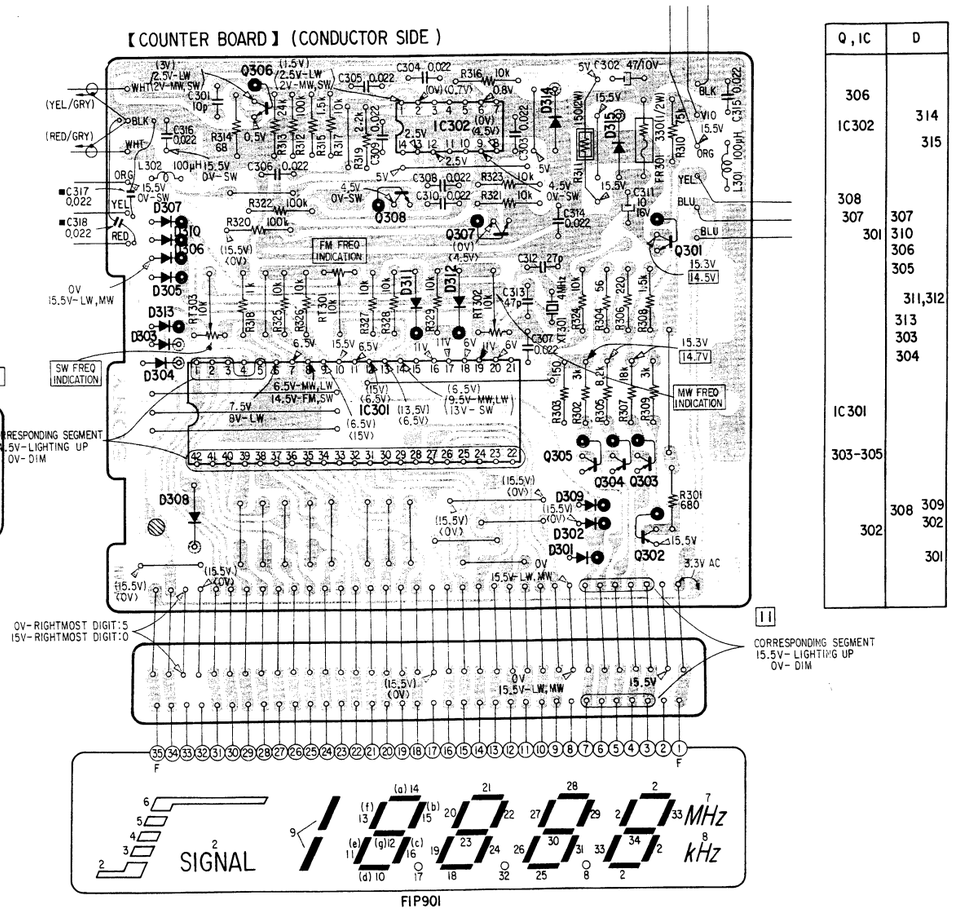
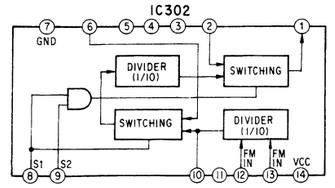


【COUNTER BOARD】(CONDUCTOR SIDE)

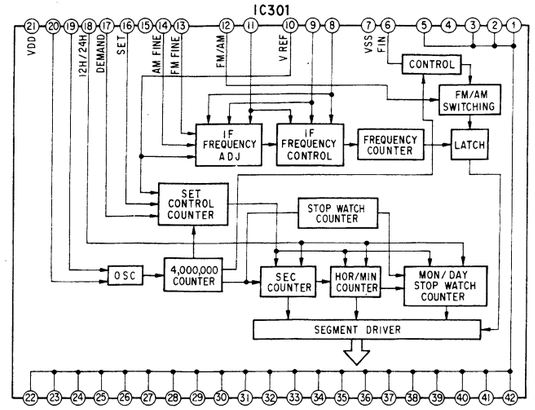


Q, IC	D
306	
IC302	314
	315
308	
307	307
301	310
	306
	305
	311,312
	313
	303
	304
IC301	
303-305	
	308 309
302	302
	301

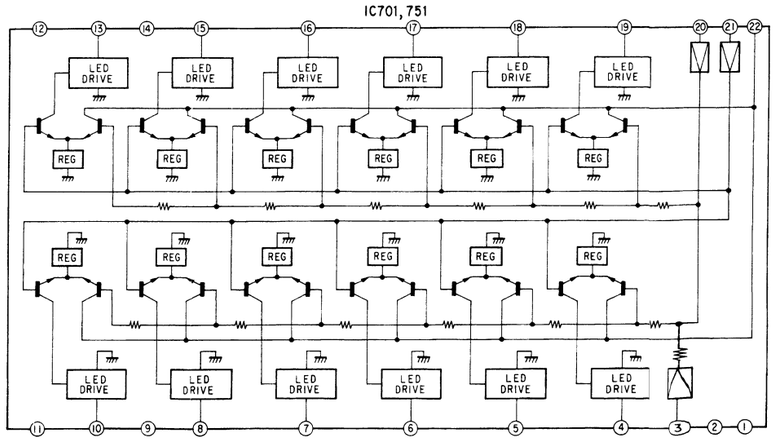
IC302



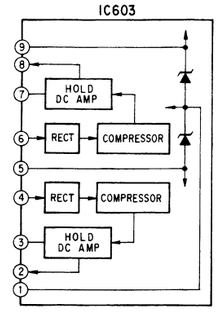
IC301



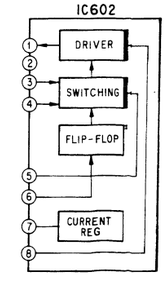
IC701, 751



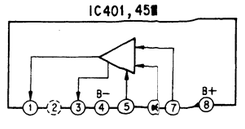
IC603



IC602



IC401, 451



he jacket.

onent side.
actor side.
r side.

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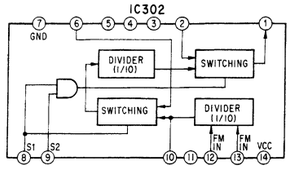
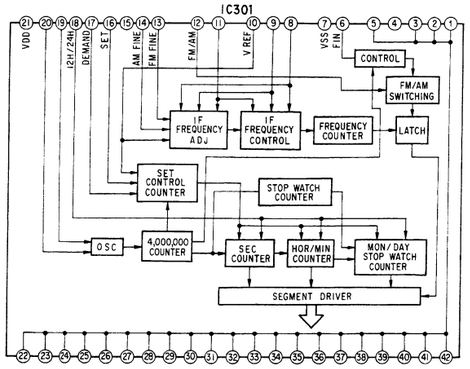
IC302

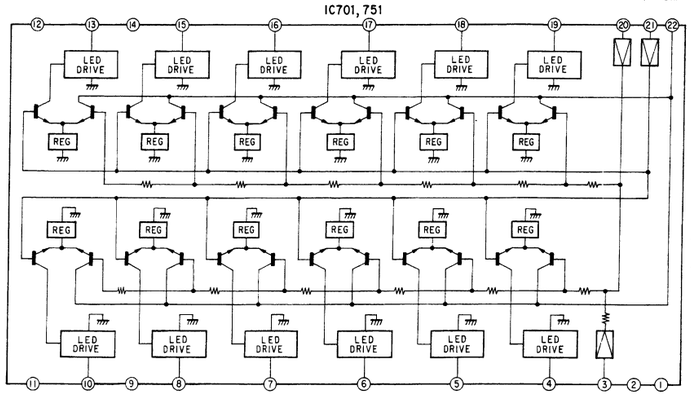


IC301

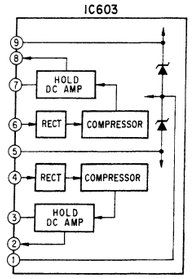


Q, IC	D
306	
IC302	314
	315
308	
307	307
301	310
	306
	305
	312,311
	313
	303
	304
IC301	
303-305	
	309 308
302	302
	301

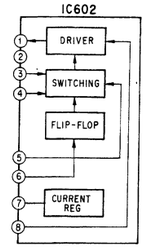
IC701, 751



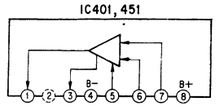
IC603



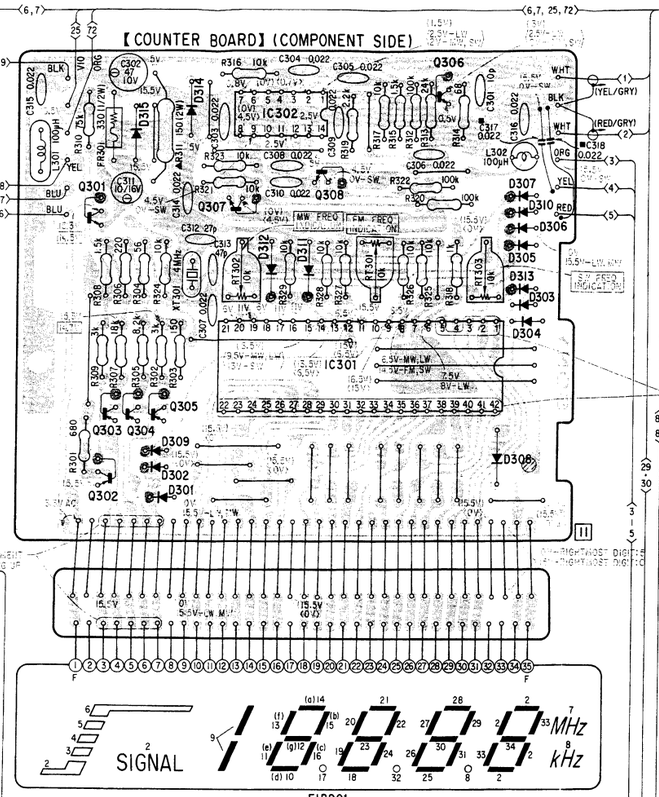
IC602



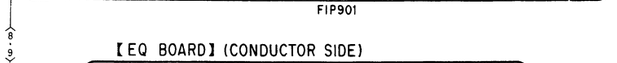
IC401, 451



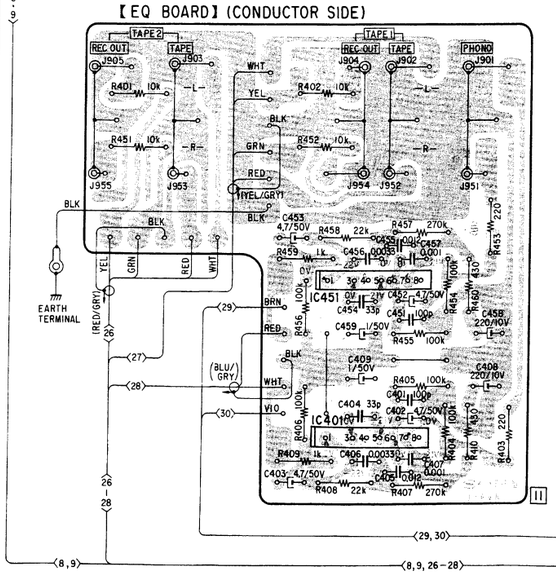
【COUNTER BOARD】(COMPONENT SIDE)



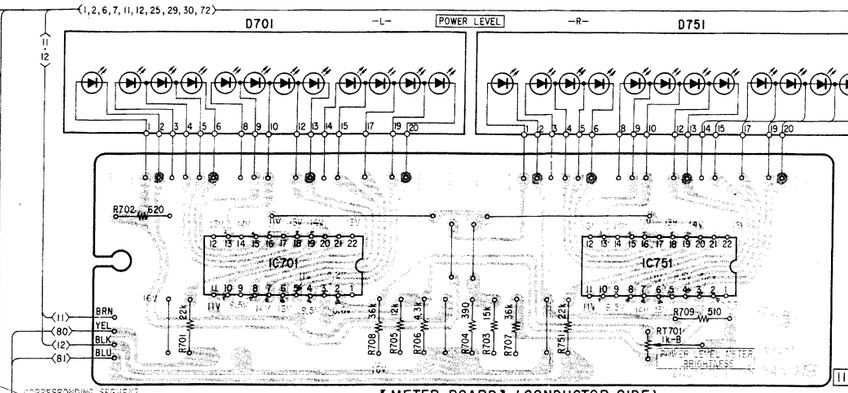
FIP901



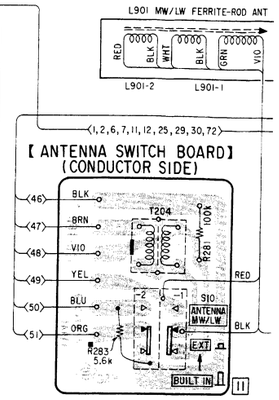
【EQ BOARD】(CONDUCTOR SIDE)



【METER BOARD】(CONDUCTOR SIDE)

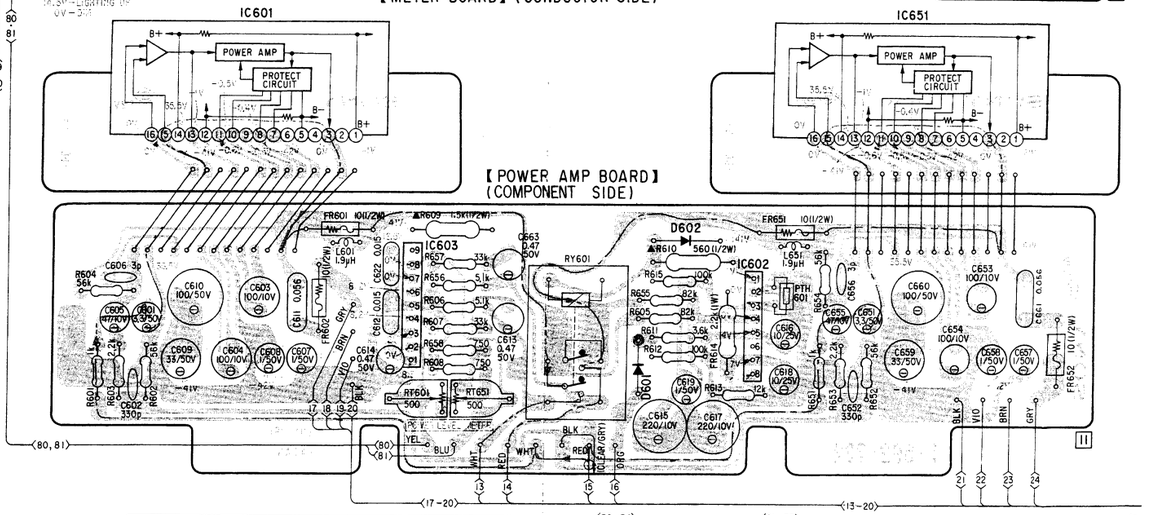


L901 MW/LW FERRITE-ROD ANT

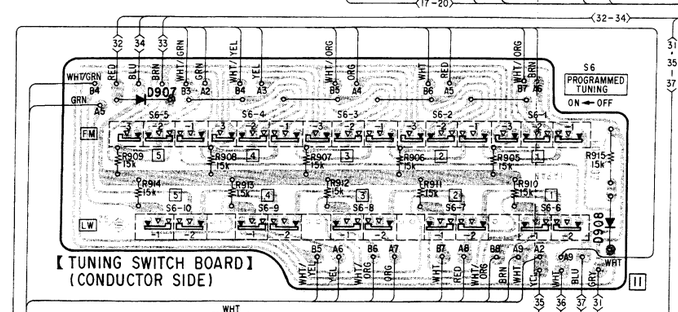


【ANTENNA SWITCH BOARD】(CONDUCTOR SIDE)

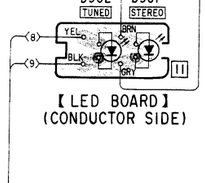
【POWER AMP BOARD】(COMPONENT SIDE)



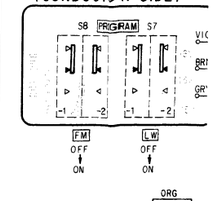
【TUNING SWITCH BOARD】(CONDUCTOR SIDE)



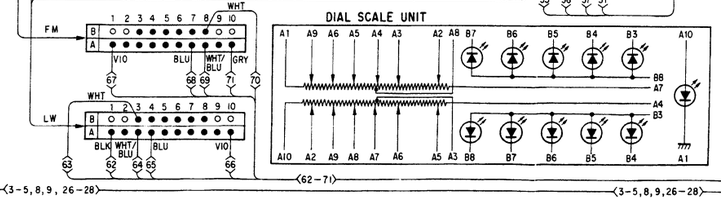
【LED BOARD】(CONDUCTOR SIDE)



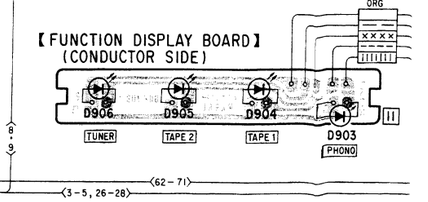
【SET SWITCH BOARD】(CONDUCTOR SIDE)



DIAL SCALE UNIT



【FUNCTION DISPLAY BOARD】(CONDUCTOR SIDE)



SONY-00495/ DRUCK 18

Q, IC	D
306	
IC302	314
	315
308	
307	307
301	310
	306
	305
	312,311
	313
	303
	304
IC301	
303-305	
	309 308
302	302
	301

Q, IC	204
D	201 202

【COUNTER BOARD】(COMPONENT SIDE)

【METER BOARD】(CONDUCTOR SIDE)

【POWER AMP BOARD】(COMPONENT SIDE)

【ANTENNA SWITCH BOARD】(CONDUCTOR SIDE)

【TUNER BOARD】(CONDUCTOR SIDE)

【EQ BOARD】(CONDUCTOR SIDE)

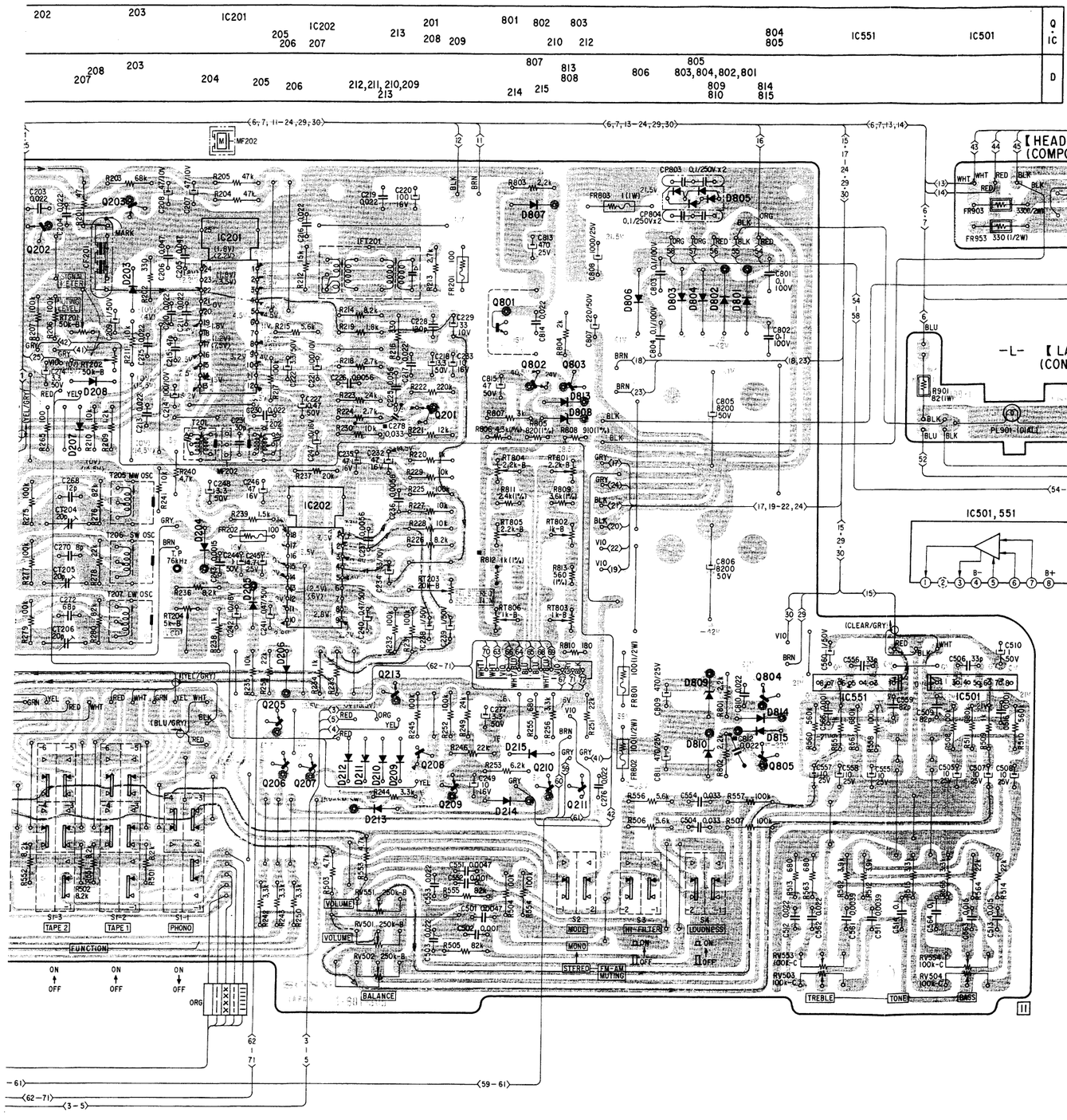
【TUNING SWITCH BOARD】(CONDUCTOR SIDE)

【SET SWITCH BOARD】(CONDUCTOR SIDE)

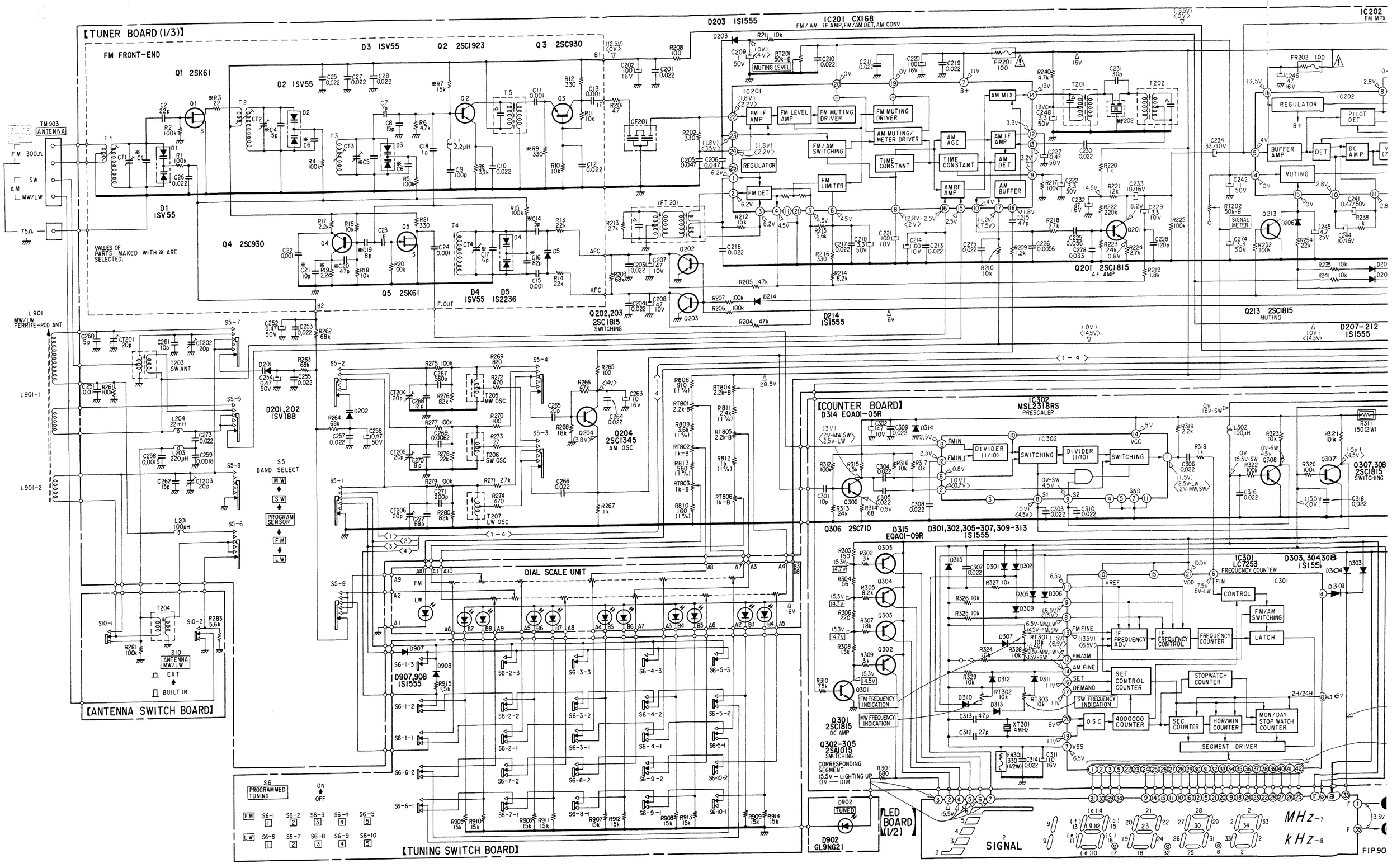
【LED BOARD】(CONDUCTOR SIDE)

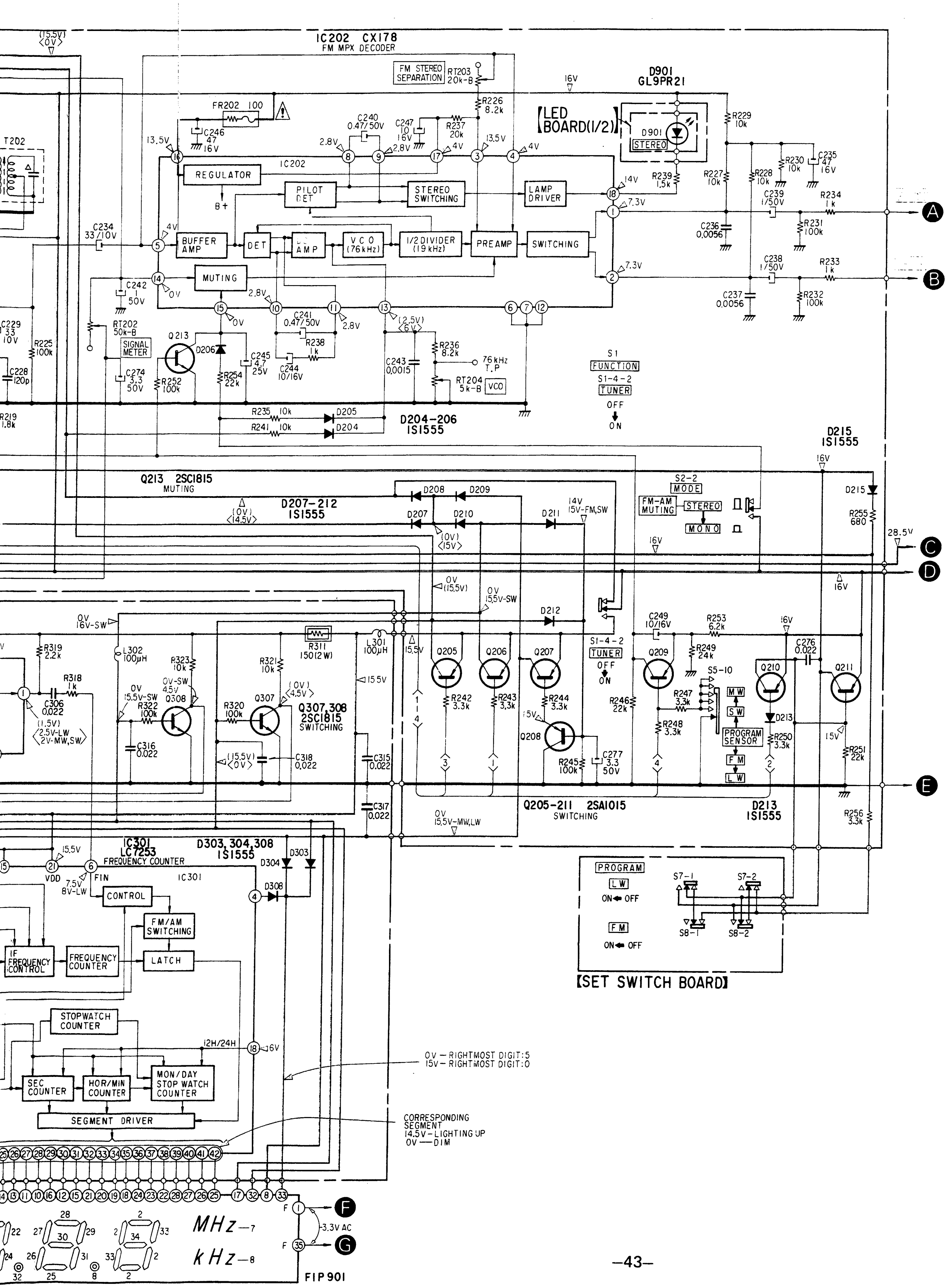
【FUNCTION DISPLAY BOARD】(CONDUCTOR SIDE)

SONY-00495/ DRUCK 19



4-3. SCHEMATIC DIAGRAM

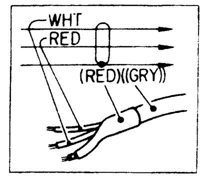




(FOR MOUNTING DIAGRAM)

Note:

- Color code of sleeving over the end of the jacket.



- ○—: parts extracted from the component side.
- ●—: parts extracted from the conductor side.
- [ ]—: indicates side identified with part number.
- ■ : part mounted on the conductor side.

- ▲ : nonflammable resistor.
- ░ : B+ pattern
- —▷—: Signal Path
- —·—▷: R-CH signal path
- —··—▷: L-CH signal path

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

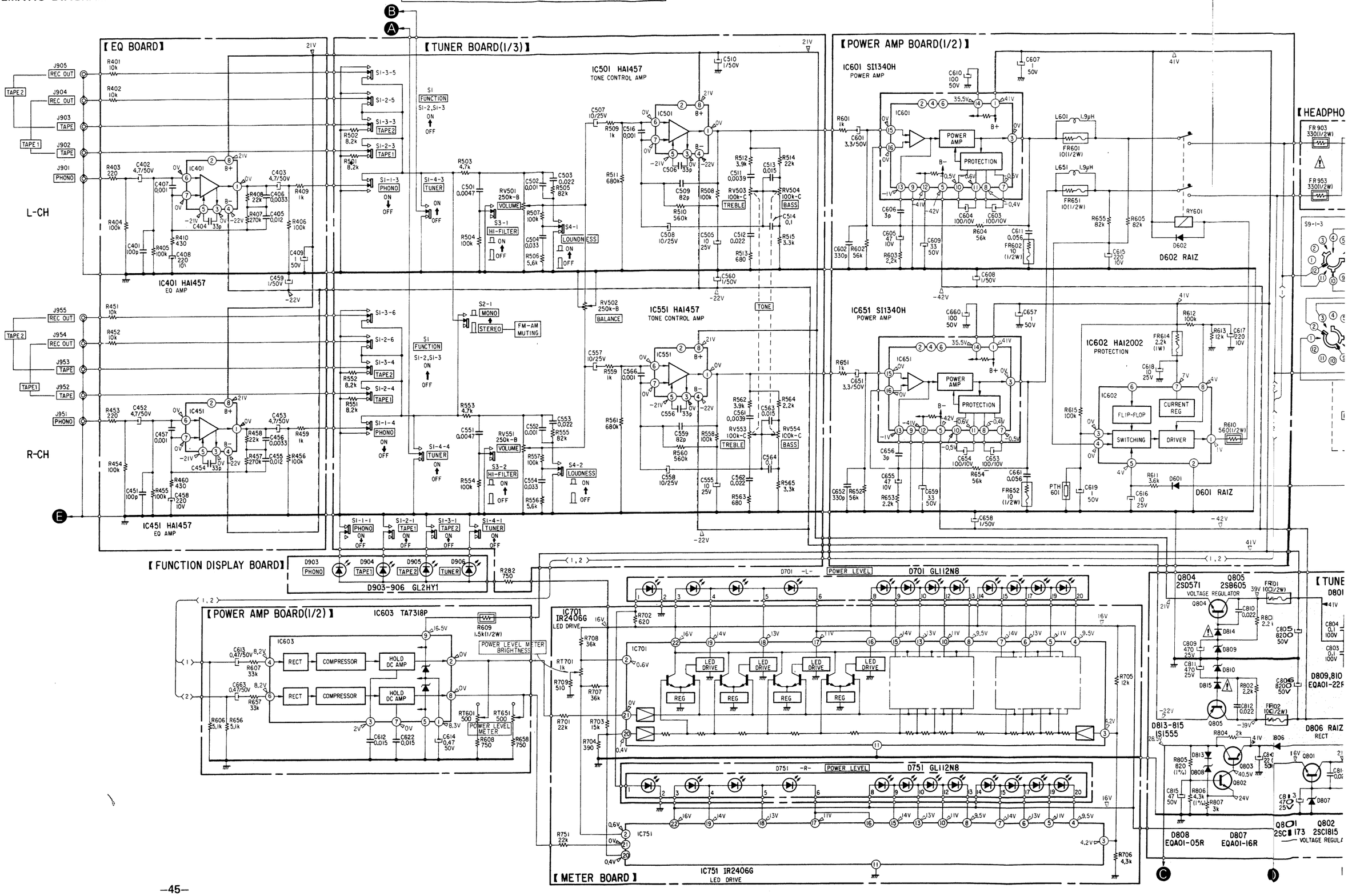
(FOR SCHEMATIC DIAGRAM)

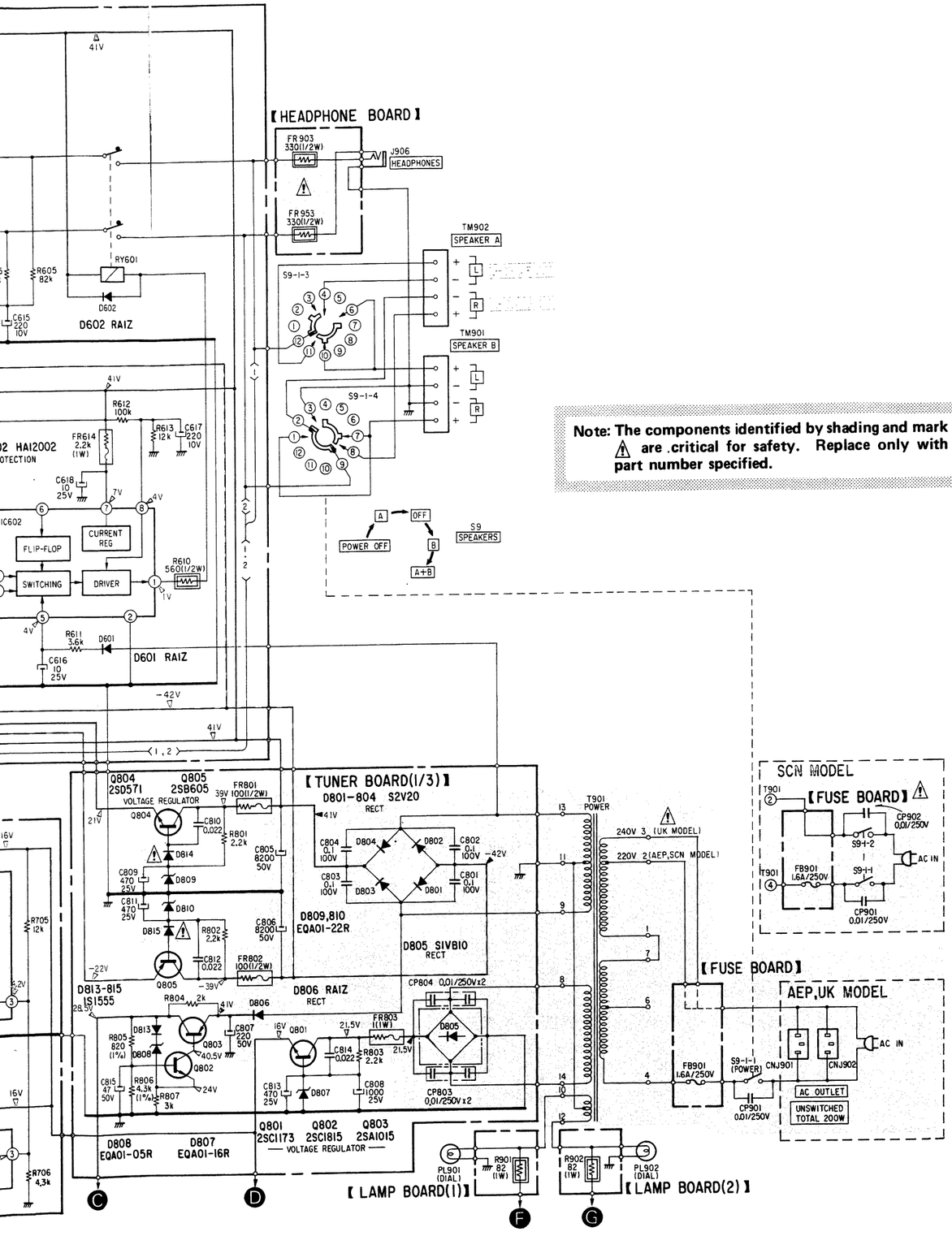
Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalum.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- —— : B+ bus.
- - - - : B– bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under detuned conditions with a VOM (20kΩ/V).
  ( ) : FM
  ▭ : SET IS TUNED.
  < > : AM
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	FUNCTION	
S1-1	PHONO	ON
S1-2	TAPE 1	OFF
S1-3	TAPE 2	OFF
S1-4	TUNER	OFF
S2	MODE	STEREO, FM -AM MUTING
S3	HI FILTER	OFF
S4	LOUDNESS	OFF
S5	Band Select	PROGRAM SENSOR
S6	PROGRAMMED TUNING	FM 1
S7	PROGRAM (LW)	OFF
S8	PROGRAM (FM)	OFF
S9	SPEAKERS (POWER)	POWER OFF
S10	ANTENNA	BUILT IN

4-4. SCHEMATIC DIAGRAM





Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

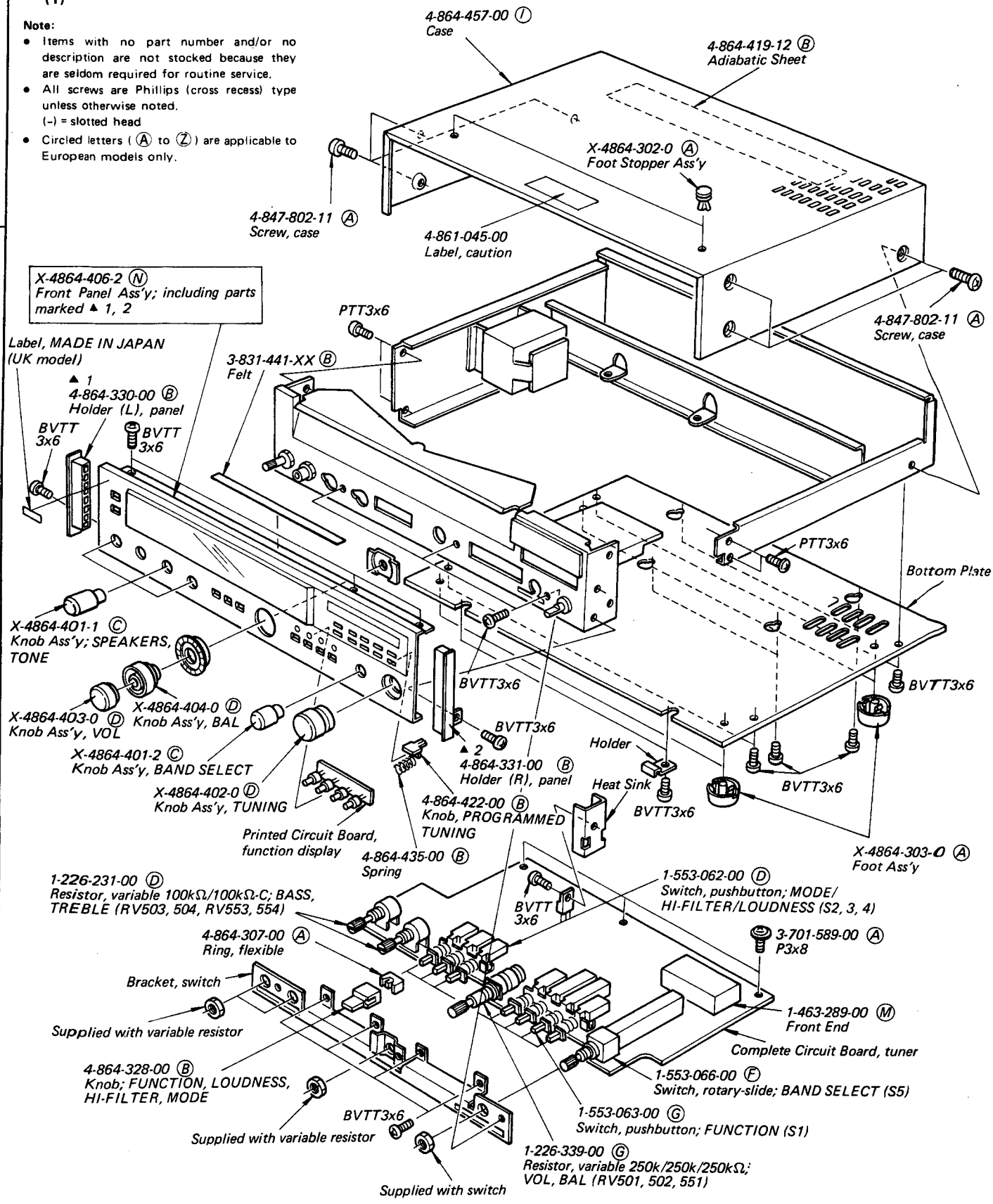
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalum.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation.
- : adjustment for repair.
- ——— : B+ bus.
- – – – : B– bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under detuned conditions with a VOM (20kΩ/V).
  ( ) : FM
  : SET IS TUNED.
  〈 〉 : AM
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	FUNCTION	
S1-1	PHONO	ON
S1-2	TAPE 1	OFF
S1-3	TAPE 2	OFF
S1-4	TUNER	OFF
S2	MODE	STEREO, FM -AM MUTING
S3	HI FILTER	OFF
S4	LOUDNESS	OFF
S5	Band Select	PROGRAM SENSOR
S6	PROGRAMMED TUNING	FM 1
S7	PROGRAM (LW)	OFF
S8	PROGRAM (FM)	OFF
S9	SPEAKERS (POWER)	POWER OFF
S10	ANTENNA	BUILT IN

(1)

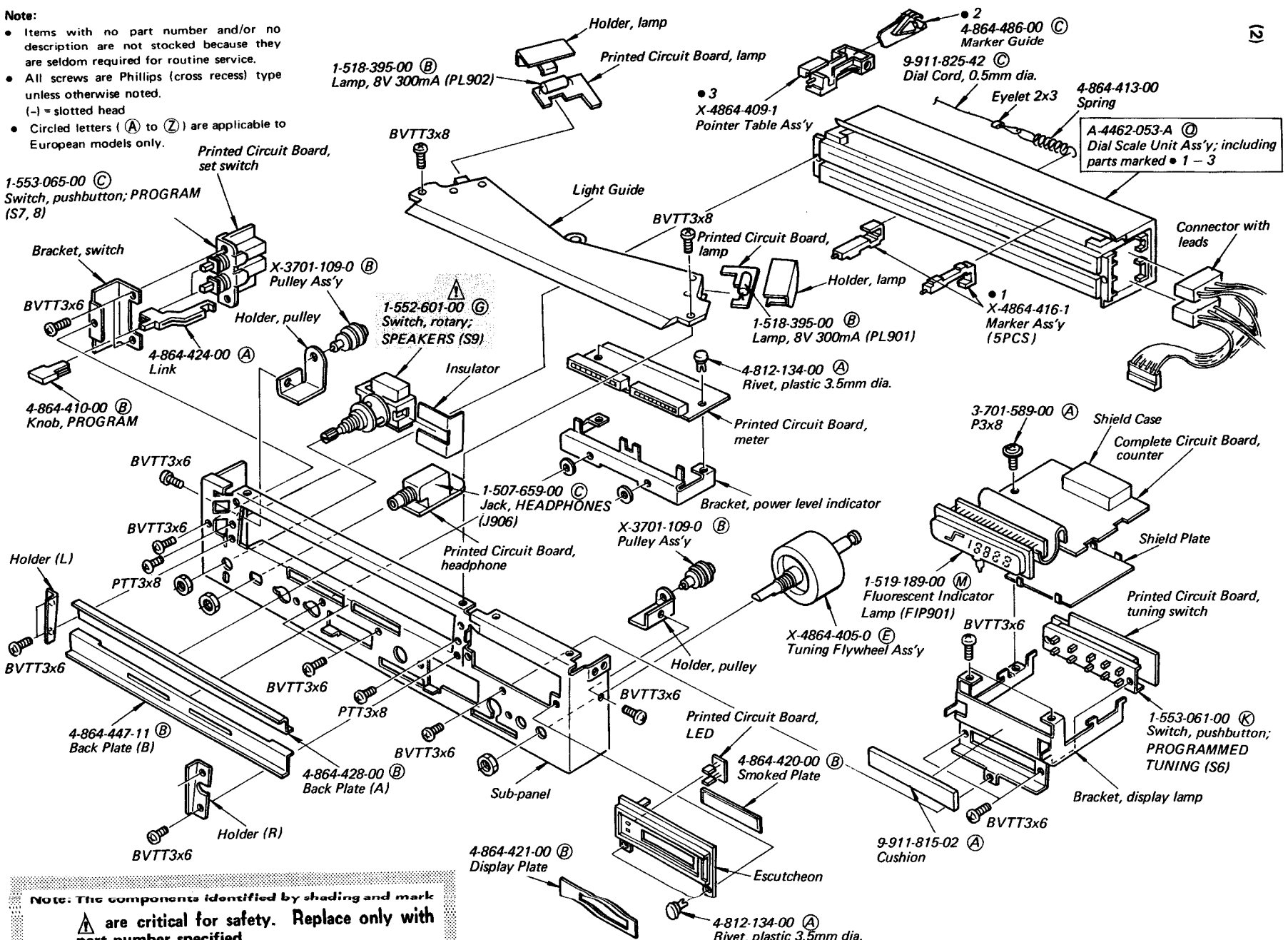
Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

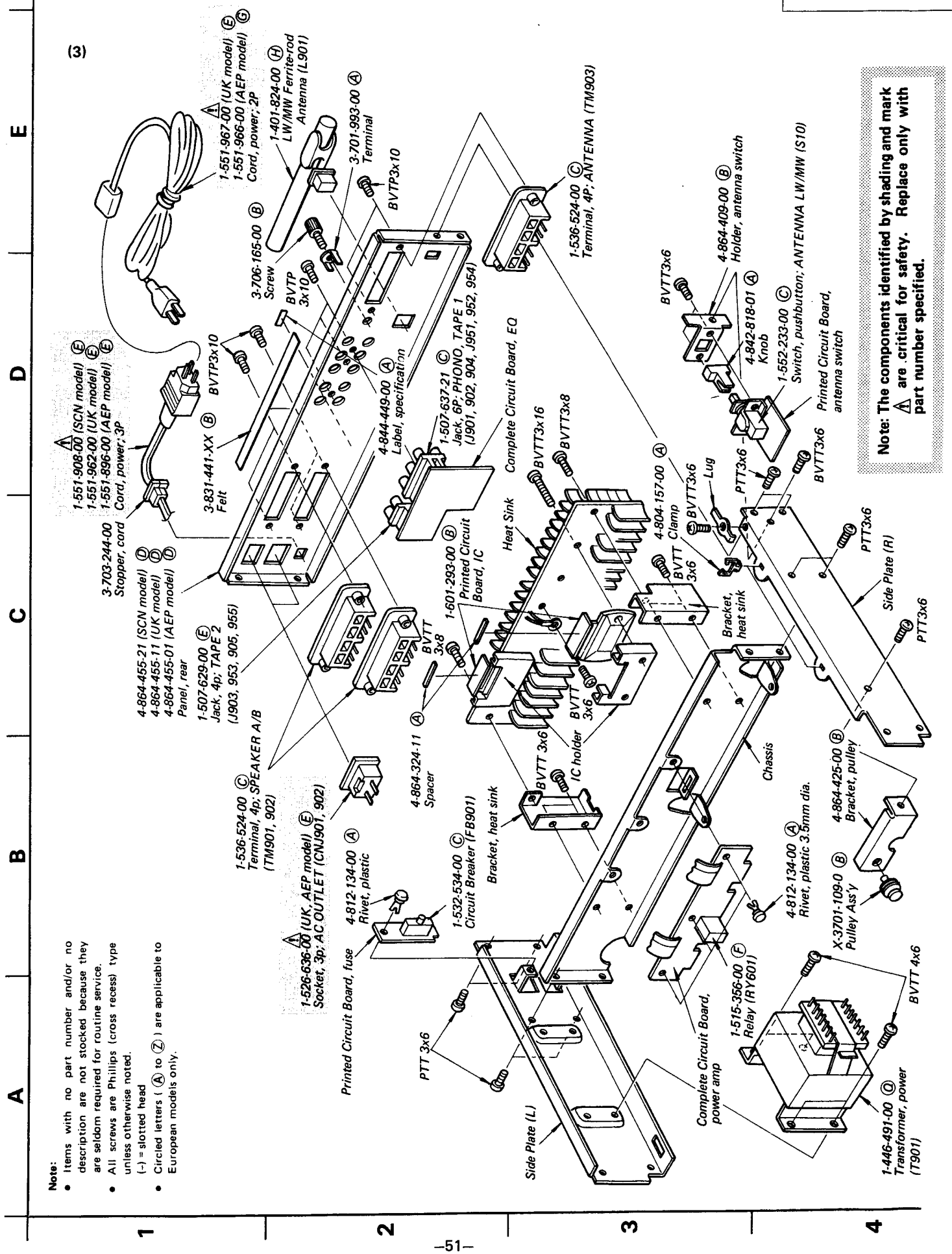


Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

SECTION 6
ELECTRICAL PARTS LIST

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

	Ref. No.	Part No.		Description
				SEMICONDUCTORS
				Transistors
⇒	Q201–203	8-729-663-47	Ⓑ	2SC1364
	Q204	8-729-334-58	Ⓑ	2SC1345
	Q205–211	8-729-201-52	Ⓑ	2SA1015
⇒	Q213	8-729-663-47	Ⓑ	2SC1364
⇒	Q301	8-729-663-47	Ⓑ	2SC1364
	Q302–305	8-729-201-52	Ⓑ	2SA1015
	Q306	8-729-671-15	Ⓑ	2SC710-15
⇒	Q307, 308	8-729-663-47	Ⓑ	2SC1364
	Q801	8-729-217-33	Ⓒ	2SC1173
⇒	Q802	8-729-663-47	Ⓑ	2SC1364
	Q803	8-729-201-52	Ⓑ	2SA1015
⇒	Q804	8-760-413-10	Ⓑ	2SC1475
	Q805	8-729-160-51	Ⓑ	2SB605
				ICs
	IC201	8-751-680-01	Ⓙ	CX168
	IC202	8-751-780-00	Ⓗ	CX178
	IC301	8-759-872-53	Ⓜ	LC7253
	IC302	8-759-923-18	Ⓙ	MSL2318RS
	IC401, 451	8-759-314-57	Ⓒ	HA1457
	IC501, 551	8-759-314-57	Ⓒ	HA1457
	IC601, 651	8-759-313-40	Ⓜ	SI1340H
	IC602	8-759-320-02	Ⓔ	HA12002
	IC603	8-759-273-18	Ⓓ	TA7318P
	IC701, 751	8-759-924-07	Ⓗ	IR2406G
				Diodes
	D201, 202	8-719-100-81	Ⓓ	1SV118
	D203–215	8-719-815-55	Ⓑ	1S1555
	D301–313	8-719-815-55	Ⓑ	1S1555
⇒	D314	8-719-931-05	Ⓑ	EQB01-05
⇒	D315	8-719-931-09	Ⓑ	EQB01-09
⇒	D601, 602	8-719-200-02	Ⓔ	10E2
	D701, 751	8-719-911-28	Ⓗ	GL112N8
⇒	D801–804	⚠8-719-911-55	Ⓒ	U05G
⇒	D805	⚠8-719-511-20	Ⓒ	S1VB20
⇒	D806	⚠8-719-200-02	Ⓔ	10E2
⇒	D807	8-719-931-16	Ⓑ	EQB01-16
⇒	D808	8-719-931-05	Ⓑ	EQB01-05
⇒	D809, 810	8-719-931-22	Ⓑ	EQB01-22
	D813	8-719-815-55	Ⓑ	1S1555
	D814, 815	⚠8-719-815-55	Ⓑ	1S1555
	D901	8-719-909-21	Ⓑ	GL9PR21
	D902	8-719-909-22	Ⓑ	GL9NG21
	D903–906	8-719-900-21	Ⓑ	GL2HY1
	D907, 908	8-719-815-55	Ⓑ	1S1555
				COILS
	L204	1-407-210-XX	Ⓑ	22mH, microinductor
	L301	1-407-750-00	Ⓑ	100μH, microinductor
	L302	1-407-169-XX	Ⓑ	100μH, microinductor
	L901	1-401-824-00	Ⓗ	LW/MW Ferrite-rod Antenna
				TRANSFORMERS
	T201	1-409-323-00	Ⓑ	Filter
	T202	1-409-324-00	Ⓑ	Filter
	T203	1-401-822-00	Ⓑ	SW ANT
	T204	1-401-819-00	Ⓑ	Antenna
	T205	1-405-881-00	Ⓑ	MW Osc
	T206	1-405-885-00	Ⓑ	SW Osc
	T207	1-405-882-00	Ⓑ	LW Osc
	T901	⚠1-446-491-00	Ⓠ	Transformer, power
	IFT201	1-404-167-00	Ⓓ	FM Discriminator

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	Part No.		Description		
			CAPACITORS		
			All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. Common capacitors are omitted. Refer to the lists on pages 55 and 56 for their part numbers.		
C243	1-104-081-00	Ⓑ	0.0015		polystyrol
C267	1-103-719-00	Ⓑ	560p		polystyrol
C269	1-103-744-00	Ⓑ	0.0062		polystyrol
C271	1-103-708-00	Ⓑ	200p		polystyrol
C801–804	⚠1-108-389-00	Ⓑ	0.1	100V	mylar
C805, 806	⚠1-125-204-00	Ⓑ	8200	50V	elect
C807	⚠1-123-361-00	Ⓑ	220	50V	elect
CT201–206	1-141-171-XX	Ⓑ	Trimmer		
			RESISTORS		
			All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on page 55 for their part numbers.		
R311	1-206-644-00	Ⓑ	150	2W	metal oxide (nonflammable)
R609	1-247-244-00	Ⓐ	1.5k	½W	(nonflammable)
R610	1-247-234-00	Ⓐ	560	½W	(nonflammable)
R805	1-214-130-00	Ⓐ	820	¼W	metal oxide (1%)
R806	1-214-147-00	Ⓐ	4.3k	¼W	metal oxide
R808	1-214-131-00	Ⓐ	910	¼W	metal oxide
R809	1-214-145-00	Ⓐ	3.6k	¼W	metal oxide
R810	1-214-113-00	Ⓐ	160	¼W	metal oxide
R811	1-214-141-00	Ⓐ	2.4k	¼W	metal oxide (1%)
R812	1-214-132-00	Ⓐ	1k	¼W	metal oxide
R813	1-214-126-00	Ⓐ	560	¼W	metal oxide
R901, 902	1-213-130-00	Ⓐ	82	1W	metal oxide (nonflammable)
R905–914	1-246-797-00	Ⓐ	15k	1/8W	carbon
RT201,202	1-226-238-00	Ⓑ	50k, adjustable; MUTING LEVEL/ SIGNAL METER CALIBRATION		
RT203	1-226-237-00	Ⓑ	20k, adjustable; FM STEREO SEPARATION		
RT204	1-226-235-00	Ⓑ	5k, adjustable; VCO		
RT301–303	1-226-236-00	Ⓑ	10k, adjustable; FM/MW/SW FREQUENCY INDICATION		
RT601, 651	1-226-232-00	Ⓑ	500, adjustable; POWER LEVEL METER CALIBRATION		
RT701	1-226-233-00	Ⓑ	1k, adjustable; POWER LEVEL METER BRIGHTNESS		
RT801	1-224-250-XX	Ⓑ	2.2k, adjustable		
RT802, 803	1-224-249-XX	Ⓑ	1k, adjustable		
RT804, 805	1-224-250-XX	Ⓑ	2.2k, adjustable		
RT806	1-224-249-XX	Ⓑ	1k, adjustable		
RV501,502 RV551	1-226-339-00	Ⓖ	250k/250k/250k-B, variable; VOL/BAL		
RV503,504 RV553,554	1-226-231-00	Ⓓ	100k/100k, variable; BASS/TREBLE		
FR201, 202	⚠1-212-881-00	Ⓑ	100	¼W	fusible
FR301	1-212-994-00	Ⓐ	330	½W	fusible
FR601, 602 FR651, 652	1-212-958-00	Ⓑ	10	½W	fusible
FR614	1-213-147-00	Ⓐ	2.2k	1W	fusible
FR801, 802	⚠1-212-982-00	Ⓑ	100	½W	fusible
FR803	⚠1-213-036-00	Ⓑ	1	1W	fusible
FR903, 953	⚠1-247-228-00	Ⓐ	330	½W	(nonflammable)
			SWITCHES		
S1	1-553-063-00	Ⓖ	Pushbutton, FUNCTION		
S2, 3, 4	1-553-062-00	Ⓓ	Pushbutton, MODE/HI-FILTER/ LOUDNESS		
S5	1-553-066-00	Ⓕ	Rotary-slide, BAND SELECT		
S6	1-553-061-00	Ⓚ	Pushbutton, PROGRAMMED TUNING		
S7, 8	1-553-065-00	Ⓒ	Pushbutton, PROGRAM		
S9	⚠1-552-601-00	Ⓖ	Rotary, SPEAKERS		
S10	1-552-233-00	Ⓒ	Pushbutton, ANTENNA		
			MISCELLANEOUS		
CF201	1-527-534-93	Ⓓ	Filter		
CNJ901,902	⚠1-526-636-00	Ⓔ	AC Outlet (AEP, UK model)		
CP803,804	⚠1-102-394-00	Ⓑ	0.01 + 0.01μF 250V ceramic		
CP901	⚠1-130-196-00	Ⓓ	0.01μF		
CP902	⚠1-130-196-00	Ⓓ	0.01μF (SCN model)		

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	Part No.		Description
FB901	⚠1-532-534-00	Ⓒ	Circuit Breaker
FE	1-463-289-00	Ⓜ	Front End
FIP901	1-519-189-00	Ⓜ	Fluorescent Indicator Lamp
J901, 951 J902, 952 J904, 954	1-507-637-21	Ⓒ	Jack, 6P; PHONO TAPE 1
J903, 953 J905, 955	1-507-629-00	Ⓔ	Jack, 4P; TAPE 2
J906	1-507-659-00	Ⓒ	Jack, HEADPHONES
MF202	1-527-403-00	Ⓒ	Mechanical Filter
PL901, 902	1-518-395-00	Ⓑ	Lamp, 8V 300mA
PTH601	1-800-427-00	Ⓑ	Thermistor, positive
RY601	1-515-356-00	Ⓕ	Relay
TM901–903	1-536-524-00	Ⓒ	Terminal, 4P; SPEAKER A/B, ANTENNA
XT301	1-527-533-00	Ⓓ	Crystal
	⚠1-551-896-00	Ⓔ	Cord, power; 3P (AEP model)
	⚠1-551-908-00	Ⓔ	Cord, power; 3P (SCN model)
	⚠1-551-962-00	Ⓔ	Cord, power; 3P (UK model)
	⚠1-551-966-00	Ⓖ	Cord, power; 2P (AEP model)
	⚠1-551-967-00	Ⓔ	Cord, power; 2P (UK model)
	1-601-293-00	Ⓑ	Printed Circuit Board, IC

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ACCESSORIES AND PACKING MATERIALS

Part No.		Description
1-501-184-00	Ⓒ	Feeder Antenna
1-501-193-00	Ⓑ	Antenna
3-701-630-00	Ⓐ	Bag, plastic
3-770-953-11	Ⓕ	Manual, instruction
4-809-251-00	Ⓐ	Bag, plastic
4-864-402-00	Ⓑ	Cushion, lower
4-864-403-00	Ⓑ	Cushion, upper left
4-864-404-00	Ⓑ	Cushion, upper right
4-864-463-00	Ⓔ	Carton

ELECTROLYTIC CAPACITORS

Note: Circled letter (Ⓐ to Ⓩ) are applicable to European models only.

CAP. (μF)	RATING → : Use the high voltage rated one.					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	1-121-726-00 Ⓐ
1.0					→	1-121-391-00 Ⓐ
2.2					→	1-121-450-00 Ⓐ
3.3	→	→	→	1-121-392-00 Ⓐ	→	1-121-393-00 Ⓐ
4.7	→	→	→	1-121-395-00 Ⓐ	→	1-121-396-00 Ⓐ
10	→	→	1-121-651-00 Ⓐ	1-121-398-00 Ⓐ	→	1-121-738-00 Ⓐ
22	→	→	1-121-479-00 Ⓐ	1-121-480-00 Ⓐ	1-121-662-00 Ⓐ	1-121-152-00 Ⓐ
33	→	→	1-121-403-00 Ⓐ	1-121-404-00 Ⓐ	1-121-652-00 Ⓑ	1-121-405-00 Ⓐ
47	→	1-121-352-00 Ⓐ	1-121-409-00 Ⓐ	1-121-410-00 Ⓐ	1-121-653-00 Ⓑ	1-121-411-00 Ⓐ
100	→	1-121-414-00 Ⓐ	1-121-415-00 Ⓐ	1-121-416-00 Ⓐ	1-121-357-00 Ⓑ	1-121-417-00 Ⓑ
220	1-121-419-00 Ⓑ	1-121-420-00 Ⓑ	1-121-421-00 Ⓐ	1-121-422-00 Ⓑ	1-121-261-00 Ⓒ	1-121-423-00 Ⓑ
330	1-121-751-00 Ⓑ	1-121-805-00 Ⓑ	1-121-521-00 Ⓒ	1-121-654-00 Ⓑ	1-121-655-00 Ⓓ	1-121-656-00 Ⓒ
470	1-121-424-00 Ⓑ	1-121-425-00 Ⓒ	1-121-426-00 Ⓒ	1-121-733-00 Ⓑ	1-121-361-00 Ⓔ	1-121-810-00 Ⓓ
1000	–	1-121-736-00 Ⓒ	1-121-245-00 Ⓓ	1-121-657-00 Ⓓ	1-121-388-00 Ⓔ	1-123-061-00 Ⓕ
2200	1-121-658-00 Ⓑ	1-121-659-00 Ⓒ	1-121-660-00 Ⓓ	1-123-067-00 Ⓕ	1-121-984-00 Ⓕ	–
3300	1-121-661-00 Ⓓ	1-123-075-00 Ⓔ	1-123-071-00 Ⓕ	–	–	–

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	–	–	–	–
1.0	1-123-249-00 Ⓐ	1-123-252-00 Ⓐ	1-123-003-00 Ⓑ	1-121-168-00 Ⓑ
2.2	1-123-250-00 Ⓐ	1-123-026-00 Ⓑ	–	1-123-028-00 Ⓑ
3.3	1-121-995-00 Ⓐ	–	1-123-004-00 Ⓑ	1-123-006-00 Ⓒ
4.7	1-123-255-00 Ⓐ	1-121-246-00 Ⓑ	1-121-759-00 Ⓑ	1-123-007-00 Ⓓ
10	1-121-126-00 Ⓑ	1-121-999-00 Ⓑ	1-123-254-00 Ⓒ	1-123-008-00 Ⓓ
22	1-121-996-00 Ⓒ	1-123-253-00 Ⓒ	1-123-005-00 Ⓓ	1-123-022-00 Ⓓ
33	1-121-997-00 Ⓒ	1-121-757-00 Ⓒ	–	–
47	1-123-251-00 Ⓒ	1-121-919-00 Ⓒ	–	–
100	1-123-084-00 Ⓔ	–	–	–

CERAMIC CAPACITORS Ⓐ

CAP. (pF)	RATING 50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

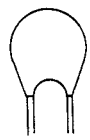
CERAMIC (SEMICONDUCTOR) CAPACITORS Ⓐ

CAP. (μF)	RATING → : Use the high voltage rated one. 25 VOLT. PART No.	50 VOLT. PART No.	CAP. (μF)	25 VOLT. PART No.	50 VOLT. PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

MYLAR CAPACITORS Ⓐ

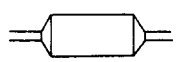
Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

CAP. (μF)	RATING 50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	–	–
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	–	–
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	–	–
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	–	–
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				



TANTALUM CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one. 3.15 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.
0.01					→	→	1-131-396-00 Ⓑ
0.015						→	1-131-397-00 Ⓑ
0.022						→	1-131-398-00 Ⓑ
0.033						→	1-131-399-00 Ⓑ
0.047						→	1-131-400-00 Ⓑ
0.068						→	1-131-401-00 Ⓑ
0.1						→	1-131-402-00 Ⓑ
0.15						→	1-131-403-00 Ⓑ
0.22						→	1-131-404-00 Ⓑ
0.33						1-131-409-00 Ⓑ	1-131-405-00 Ⓑ
0.47	–	–	–	–	1-131-412-00 Ⓑ	→	1-131-406-00 Ⓑ
0.68	–	–	–	1-131-415-00 Ⓑ	→	1-131-410-00 Ⓑ	1-131-407-00 Ⓑ
1.0	–	–	1-131-418-00 Ⓑ	–	1-131-413-00 Ⓑ	→	1-131-408-00 Ⓑ
1.5	–	1-131-421-00 Ⓑ	–	1-131-416-00 Ⓑ	→	1-131-411-00 Ⓑ	1-131-348-00 Ⓑ
2.2	1-131-424-00 Ⓑ	–	1-131-419-00 Ⓑ	–	1-131-414-00 Ⓑ	1-131-355-00 Ⓑ	1-131-349-00 Ⓑ
3.3	–	1-131-422-00 Ⓑ	–	1-131-417-00 Ⓑ	1-131-362-00 Ⓑ	1-131-356-00 Ⓑ	1-131-350-00 Ⓑ
4.7	1-131-425-00 Ⓑ	–	1-131-420-00 Ⓑ	1-131-369-00 Ⓑ	1-131-363-00 Ⓑ	1-131-357-00 Ⓑ	1-131-351-00 Ⓒ
6.8	–	1-131-423-00 Ⓑ	1-131-376-00 Ⓑ	1-131-370-00 Ⓑ	1-131-364-00 Ⓑ	1-131-358-00 Ⓒ	1-131-352-00 Ⓒ
10	1-131-426-00 Ⓑ	1-131-383-00 Ⓑ	1-131-377-00 Ⓑ	1-131-371-00 Ⓑ	1-131-365-00 Ⓒ	1-131-359-00 Ⓒ	1-131-353-00 Ⓓ
15	1-131-390-00 Ⓑ	1-131-384-00 Ⓑ	1-131-378-00 Ⓑ	1-131-372-00 Ⓑ	1-131-366-00 Ⓒ	1-131-360-00 Ⓓ	–
22	1-131-391-00 Ⓑ	1-131-385-00 Ⓑ	1-131-379-00 Ⓒ	1-131-373-00 Ⓒ	1-131-367-00 Ⓓ		
33	1-131-392-00 Ⓑ	1-131-386-00 Ⓒ	1-131-380-00 Ⓒ	1-131-374-00 Ⓓ			
47	1-131-393-00 Ⓒ	1-131-387-00 Ⓒ	1-131-381-00 Ⓓ	–			
68	1-131-394-00 Ⓑ	1-131-388-00 Ⓒ	–	–			
100	1-131-395-00 Ⓓ	–	–	–			



TANTALUM CAPACITORS

CAP. (μF)	RATING 3 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	35 VOLT. PART No.
0.033						1-131-273-00 Ⓔ
0.047						1-131-274-00 Ⓔ
0.068						1-131-275-00 Ⓔ
0.1						1-131-276-00 Ⓓ
0.15						1-131-277-00 Ⓓ
0.22			–	–	1-131-262-00 Ⓓ	1-131-278-00 Ⓓ
0.33			–	–	1-131-263-00 Ⓓ	1-131-279-00 Ⓓ
0.47			1-131-169-00 Ⓓ	–	1-131-264-00 Ⓓ	1-131-280-00 Ⓓ
0.68			–	1-131-258-00 Ⓓ	1-131-265-00 Ⓓ	1-131-281-00 Ⓓ
1.0			1-131-254-00 Ⓓ	–	1-131-266-00 Ⓓ	1-131-282-00 Ⓓ
1.5		1-131-250-00 Ⓓ	–	–	1-131-267-00 Ⓓ	1-131-283-00 Ⓔ
2.2		–	–	1-131-259-00 Ⓓ	1-131-268-00 Ⓓ	1-131-284-00 Ⓔ
3.3		–	1-131-255-00 Ⓓ	–	1-131-269-00 Ⓓ	–
4.7		1-131-251-00 Ⓔ	1-131-171-00 Ⓓ	–	1-131-270-00 Ⓓ	–
6.8		–	–	1-131-260-00 Ⓓ	1-131-271-00 Ⓔ	–
10	–	–	1-131-256-00 Ⓓ	–	1-131-272-00 Ⓔ	–
15	–	1-131-252-00 Ⓓ	–	1-131-261-00 Ⓔ		
22	–	–	1-131-257-00 Ⓔ	–		
33	1-131-176-00 Ⓓ	1-131-253-00 Ⓔ	1-131-173-00 Ⓒ	–		
47	1-131-288-00 Ⓕ	1-131-174-00 Ⓓ	–	–		
100	1-131-177-00 Ⓓ					

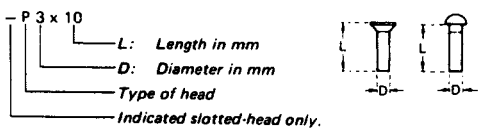
1/4 WATT CARBON RESISTORS Ⓐ

Note: Circled letter Ⓐ is applicable to European models only.

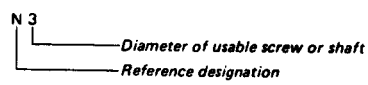
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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Sony Corporation

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FM-AM PROGRAM RECEIVER STR-434L

AEP Model
UK Model
SCN Model

SUPPLEMENT

File this supplement with the service manual.

No. 1
December 1979

PRODUCTION CHANGE

COUNTER and EQ BOARD

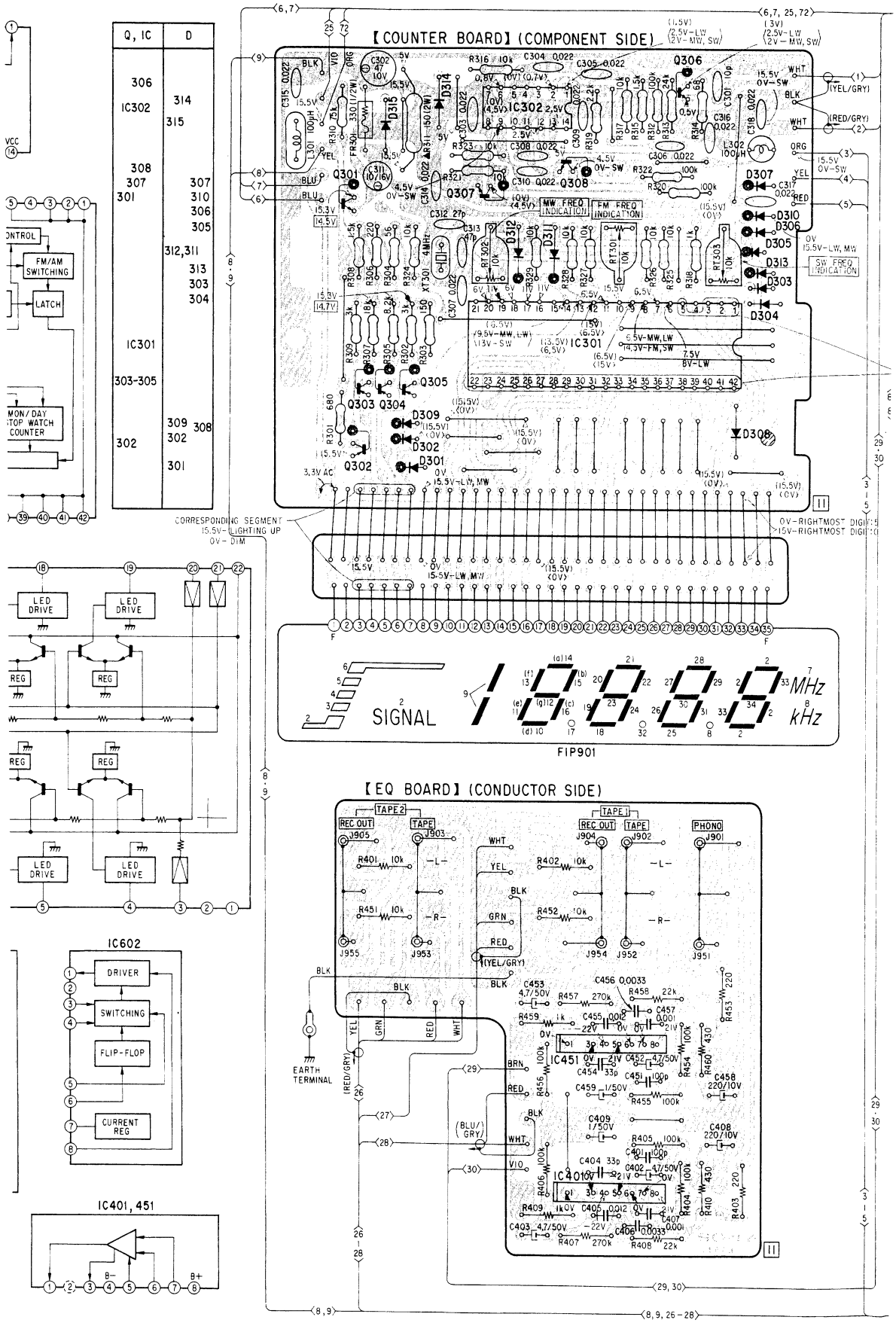
AEP Model
Serial No. 505701 and later
UK Model
Serial No. 600501 and later
SCN Model
Serial No. 550001 and later

TUNER BOARD

AEP Model
Serial No. 505801 and later
UK Model
Serial No. 601501 and later
SCN Model
Serial No. 550001 and later

SONY®
SERVICE MANUAL

MOUNTING DIAGRAM



STR-434L STR-434L

Suppl.

SCHEMATIC DIAGRAM