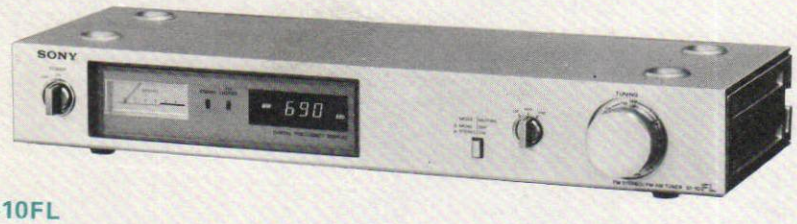
ST-10FL/10FBL

ST-10FL: Silver Type
ST-10FBL: Black Type

AEP Model



ST-10FL

STEREO TUNER

SPECIFICATION

GENERAL

Power Requirements:	220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50/60 Hz
Power Consumption:	10W
Dimensions:	Approx. 430 (w) x 70 (h) x 170 (d) mm 17 (w) x 2 3/4 (h) x 6 5/8 (d) inches including projecting parts and controls
Weight:	Approx. 3 kg, 6 lb 10 oz (net)

FM SECTION

Frequency Range:	87.5–108 MHz
Antenna Terminals:	300 Ω balanced 75 Ω unbalanced
Intermediate Frequency:	10.7 MHz
Sensitivity at 50 dB Quieting: (75 kHz deviation)	3.5 μV, 16.1 dBf (MONO) 45 μV, 38.3 dBf (STEREO)
Usable Sensitivity:	IHF: 1.8 μV, 10.3 dBf DIN: 1.6 μV (S/N = 26 dB, 40 kHz deviation)
S/N Ratio:	75 dB (MONO) 70 dB (STEREO)
Harmonic Distortion:	0.15% (MONO) at 1 kHz 0.3% (STEREO) at 1 kHz
IM Distortion:	0.15% (MONO) 0.3% (STEREO)
Separation:	45 dB at 1 kHz
Frequency Response:	IHF: 30 Hz- 15 kHz $^{+0.5}_{-2.0}$ dB DIN: 40 Hz–12.5 kHz $^{+0.5}_{-1.0}$ dB
Alternate Channel Selectivity:	IHF: 60 dB (400 kHz) DIN: 55 dB (300 kHz)
Capture Ratio:	1.0 dB
AM Suppression Ratio:	54 dB
Image Response Ratio:	45 dB
Muting Threshold:	Approx. 5 μV
Output Level:	380 mV, 12 kΩ (1 kHz, 40 kHz deviation)

– 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.

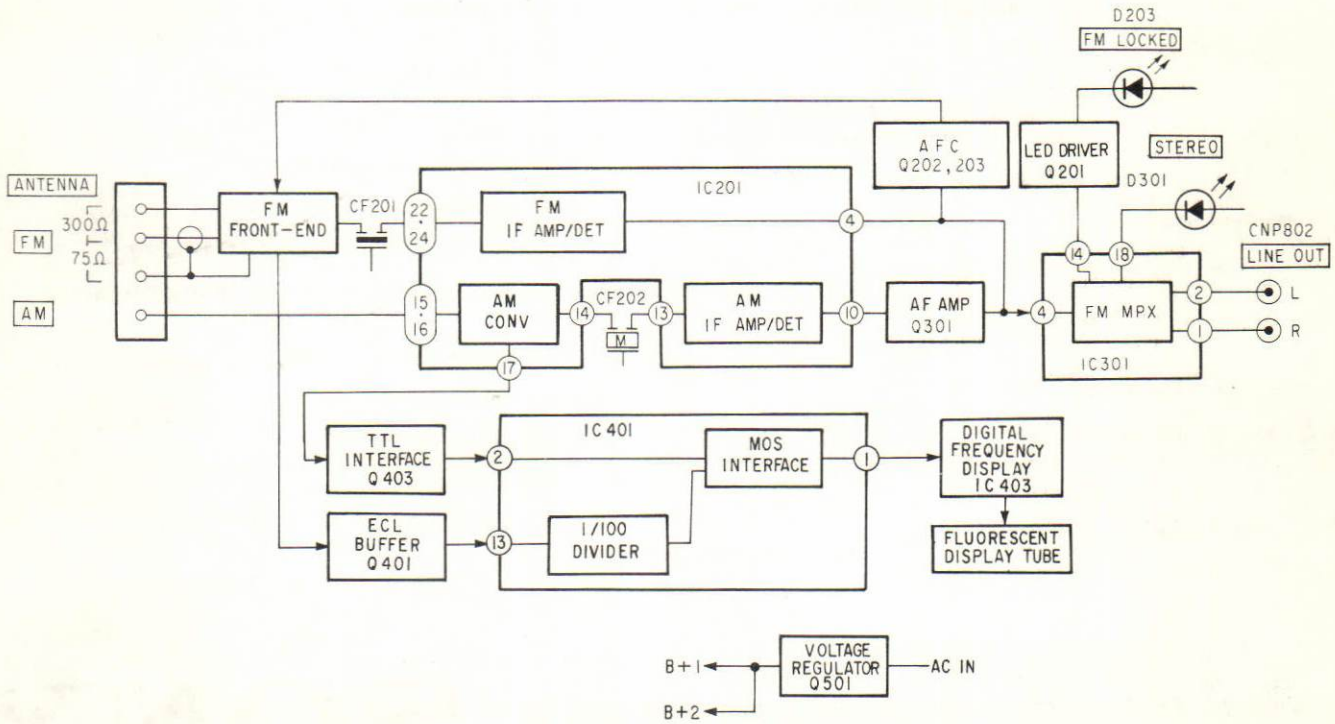
SONY®
SERVICE MANUAL

MW/LW SECTION

	MW	LW
Frequency Range	522–1,602 kHz	150–350 kHz
Antennas	Ferrite-rod antenna, External antenna terminal	
Usable Sensitivity	250 μV/m (ferrite-rod antenna)	500 μV/m (ferrite-rod antenna)
S/N Ratio	52 dB	52 dB
Harmonic Distortion	0.3 % (400 Hz)	
Selectivity	50 dB (9 kHz)	
Intermediate Frequency	450 kHz	

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

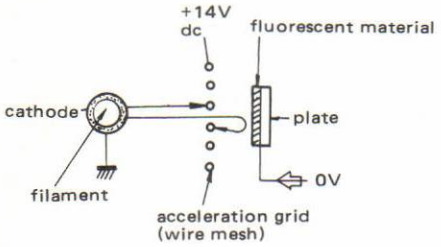


1-2. CIRCUIT DESCRIPTION

1) Fluorescent Digital Display Tube

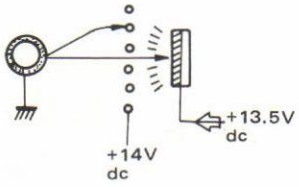
The Fluorescent Digital Display Tube is a triode which is used for Tuning Frequency Display. This tube consists of a filament, an acceleration grid, and a fluorescent plate. The filament is heated by 2.5V., 75mA. electrical current. The acceleration grid, is placed between the filament and the fluorescent plate. It is a wire mesh that is charged with +14V. This grid always attracts electrons from the filament. Behind the grid, a mosaic-like fluorescent plate is placed to which 0V (in non-display mode) or 13.5V (in display mode) is applied.

- **Non Display Mode**



When in non-display mode, the thermal electrons emitted by the filament are attracted by the acceleration grid. Some of these electrons are directly absorbed by the grid and some pass through the grid. But because of the low voltage potential at the fluorescent plate, the electrons that have passed the grid turn back to be absorbed by the grid as well.

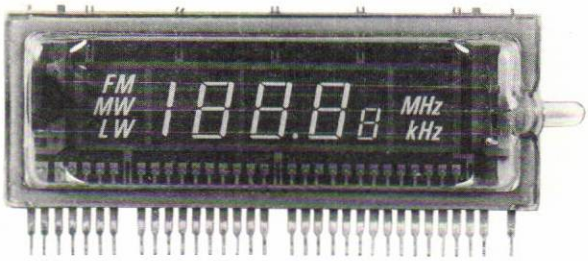
- **Display Mode**



When in display mode, all of the electrons that pass the grid are accelerated on toward the fluorescent plate. Upon striking the plate, their energy is converted into luminescence.

- **Service Precaution**

The filament of the display tube (25mA SF Type three paralle) is extremely sensitive and will burn out immediately if subjected to voltages higher than it is designed for (2.5V).



Fluorescent Display Tube

2) Digital Display of Receiving Frequency

The fluorescent display tube indicates the receiving frequency in 1kHz under LW/MW mode, and in 0.05MHz under FM mode. The following MSI and LSI, whose input is supplied by the output signal of the local oscillator, drive the fluorescent display tube.

IC401	MSL2318RS	frequency divider (1/100)
IC402	LC7253	LSI for digital display (DIP-type of CMOS: 42 pin)

3) Offset Frequency

In superheterodyne receivers, the receiving frequency (f_R) can be obtained by

($f_R = f_{LOSC} \pm f_{IF}$
f_{LOSC}: local oscillator frequency)

f_{IF} : intermediate frequency

In upperheterodyne systems, the receiving frequency (f_R) is as follows:

FM, AM mode

$f_{LOSC} - f_{IF} = f_R$

The offset frequency is the same frequency as f_{IF} and its standard value is 455kHz for AM and 10.7MHz for FM.

4) LC7253 (IC402)

- **Input Frequency**

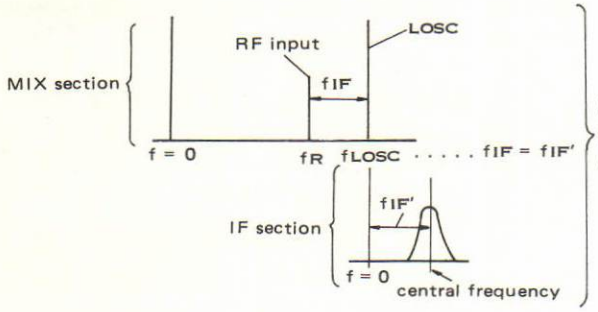
This IC is a CMOS LSI which can handle up to about 3MHz. The maximum AM signal is 2065 kHz (1610+455kHz) and can be therefore applied into the LSI, through buffer amplifier. But, since the maximum FM signal is 118.7MHz (108+10.7MHz), it cannot be applied directly into the LSI. It is therefore reduced by 1/100 frequency divider down within 2MHz before the LSI.

- **The Importance of f_{IF}' (Offset Frequency) Adjustment**

With the digital display system, if the precalculated offset frequency of 455kHz or 10.7MHz does not exactly match the actual central frequency of IF section, the following phenomena will occur:

In the previous discussion, it has been assumed that the offset frequency may be freely adjusted. But the use of a ceramic filter instead of an IFT actually prohibits free adjustment.

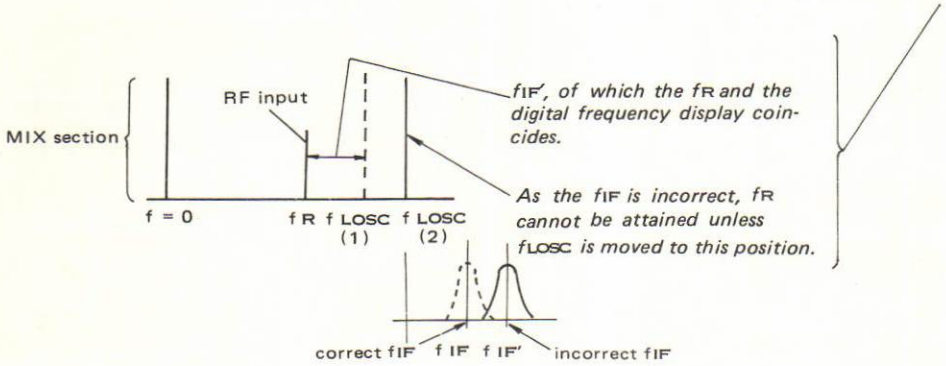
- **When the offset value (f_{IF}') matches:**



When the digital display indicates a certain receiving frequency, the signal meter indicates peak signal strength reception.

- **If the offset value (f_{IF}') does not match:**

When the digital display indicates a certain receiving frequency, the signal desired is not received, or does not coincide with that of the peak signal indicaiton.



- **Offset Frequency of LC7253**

The offset frequency is adjusted by combining the input terminal pins of LC7253 (pin ⑧, ⑨, ⑪, ⑫) in various ways.

Mode	Set input terminal (numbers circled are pin numbers) AM/FM ⑫	S1 ⑧	S2 ⑪	S3 ⑨	Offset frequency
AM	0	X	0	0	−455kHz
	0	X	1	0	−469kHz
	0	0	X	1	−450kHz
FM	1	0	X	0	+10.7MHz
	1	1	X	0	−10.7MHz

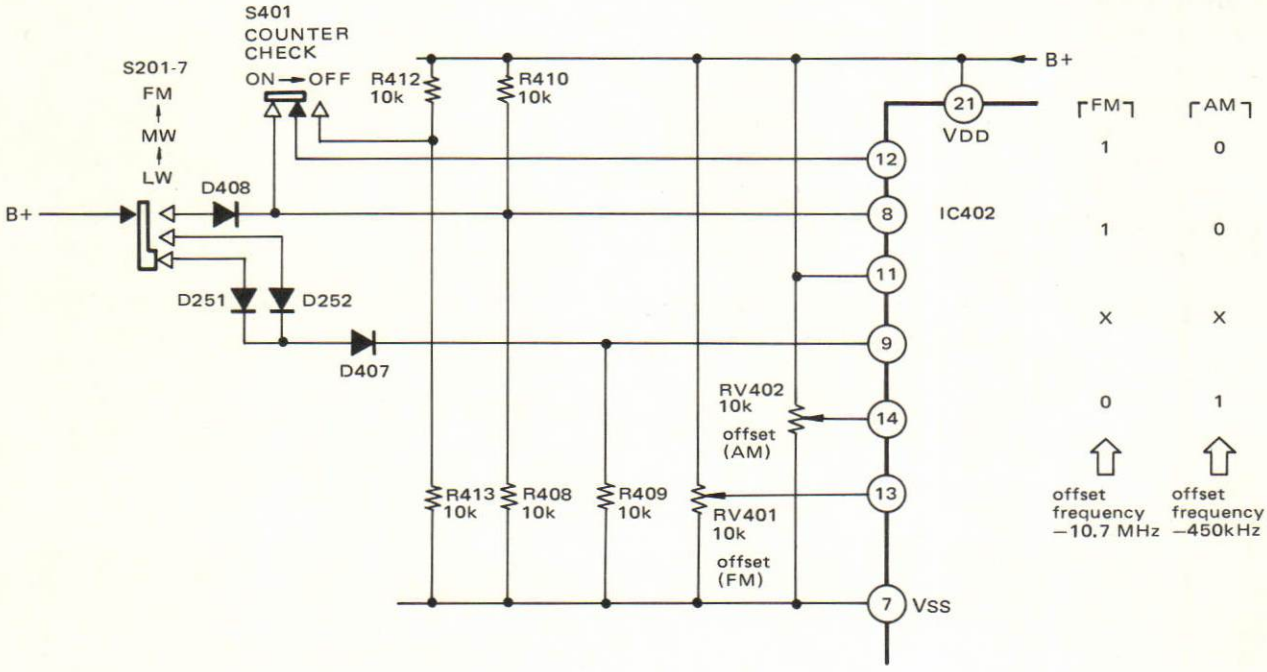
X: can be eigher 1 or 0

The digital display circuit and offset frequency is as shown below.

5) Digital Counter

The digital frequency display is basically counting the local frequency. Therefore, by presetting the offset frequency, the receiving frequency will be displayed.

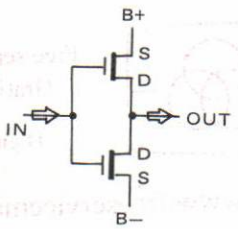
The digital counter has an attached crystal oscillator which generates a prescribed frequency (4MHz in the LSI model) that controls the gate time of the counter.



6) Service Precautions

IC403

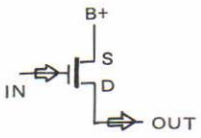
IC402, a type of CMOS has the same input gate as the former MOS types, and like them, the gate can be damaged by the contact with electrical charges. The biggest difference between CMOS and MOS is at their output as is shown in the diagram of the CMOS below:



When the output of the CMOS is "1", B+ is supplied to the output by the FET turning on, Similarly, B– is supplied to the output when the output is "0".

If the output terminals are connected with both B+ and B–, this IC will be damaged at the time B+ or B– is supplied. Terminal (19) is the output terminal. Be careful not to connect these terminals with B+ and B–.

The output for the fluorescent display tube (at pins (1) – (5), (24) – (42)) is an open drain system as shown below:



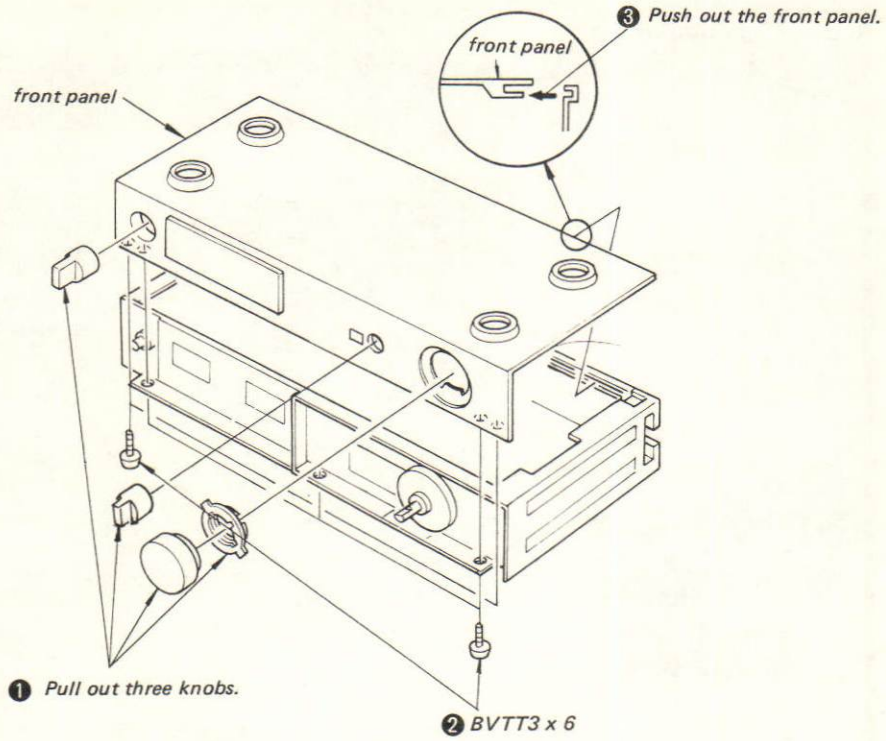
As the diagram shows, if the output terminal comes into contact with the B+ Line, no damage is caused, but if it comes into contact with "0" damage will ensue.

Note: In this case, "0" indicates the electric potential of pin (7).

SECTION 2
DISASSEMBLY

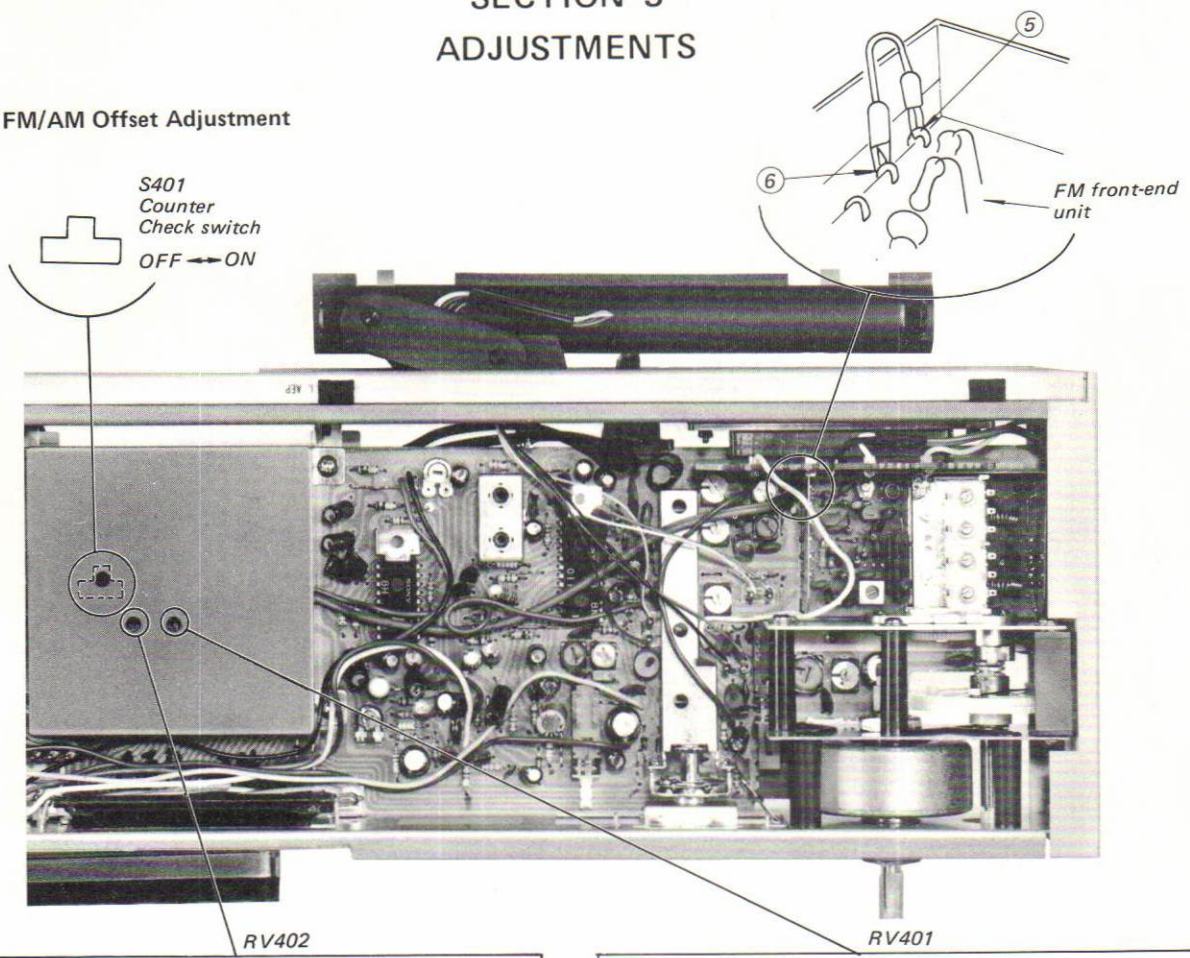
Note: Follow the disassembly procedure in the numerical order given.

FRONT PANEL REMOVAL



SECTION 3
ADJUSTMENTS

3-1. FM/AM Offset Adjustment

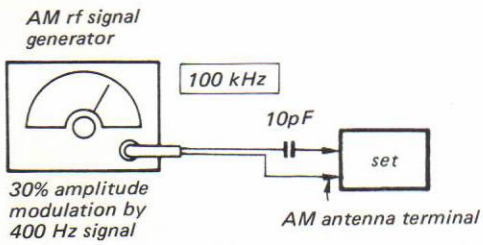


AM Offset Frequency Adjustment

Setting:

FUNCTION switch: MW

Procedure:



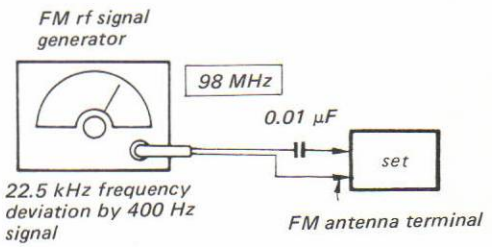
1. Turn the counter check switch (S401) off.
2. Adjust RV402 for 1000 kHz on the frequency counter.
   The place where the blinking of the 1 kHz figure stops is the tuning point.
3. After the adjustment, turn the counter check switch on.

FM Offset Frequency Adjustment

Setting:

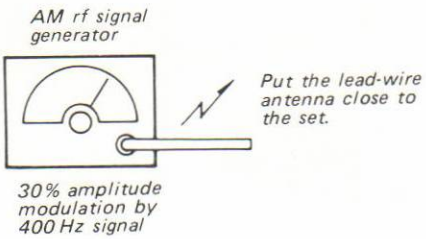
FUNCTION Swtich: FM

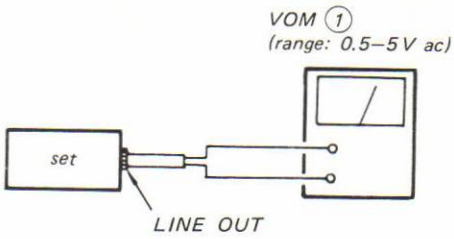
Procedure:



1. Short the AFC circuit as shown above.
2. Turn the counter check switch (S401) off.
3. Adjust RV401 for 98 MHz on the frequency counter. The place where the blinking of the 100 kHz figure stops is the tuning point.
4. After the adjustment, turn the counter check switch on and release step 1.

3-2. MW SECTION

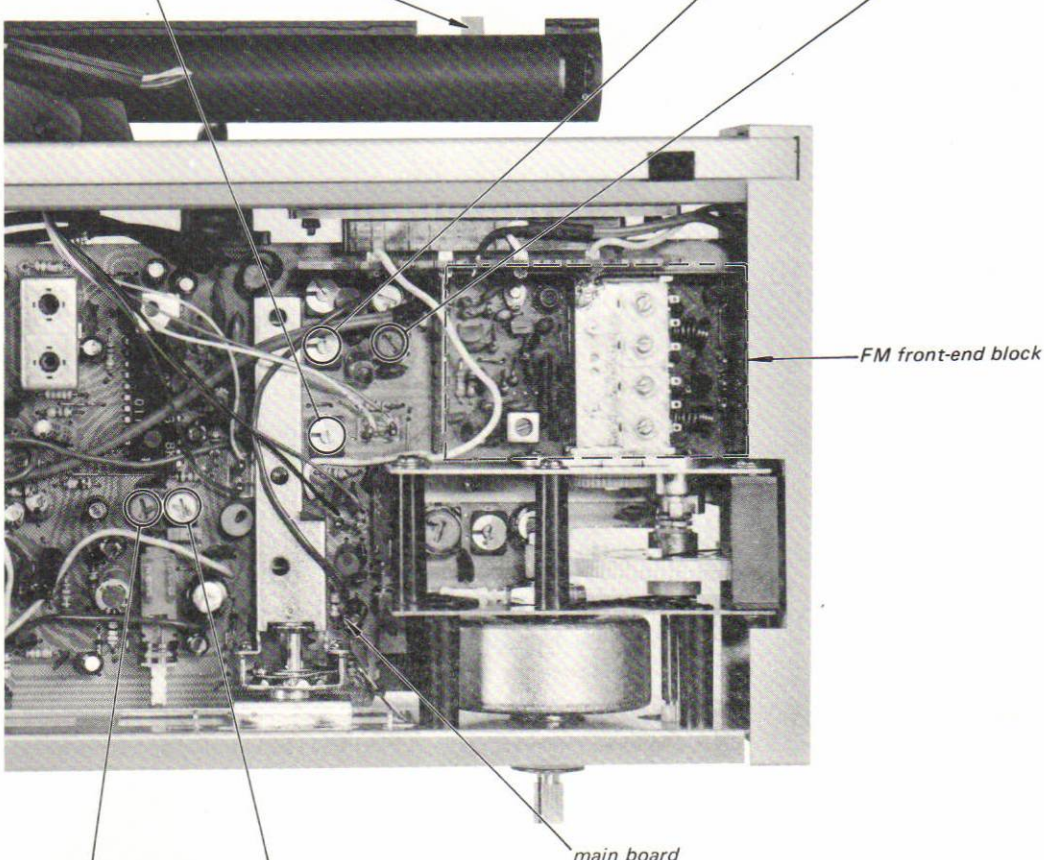




- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

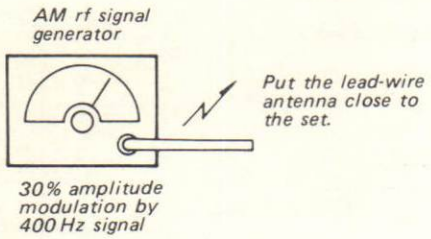
MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM (1).	
1,400 kHz	620 kHz
CT251	L251

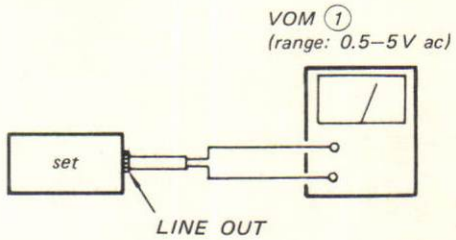
MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM (1).	
1,670 kHz	515 kHz
CT253	T252



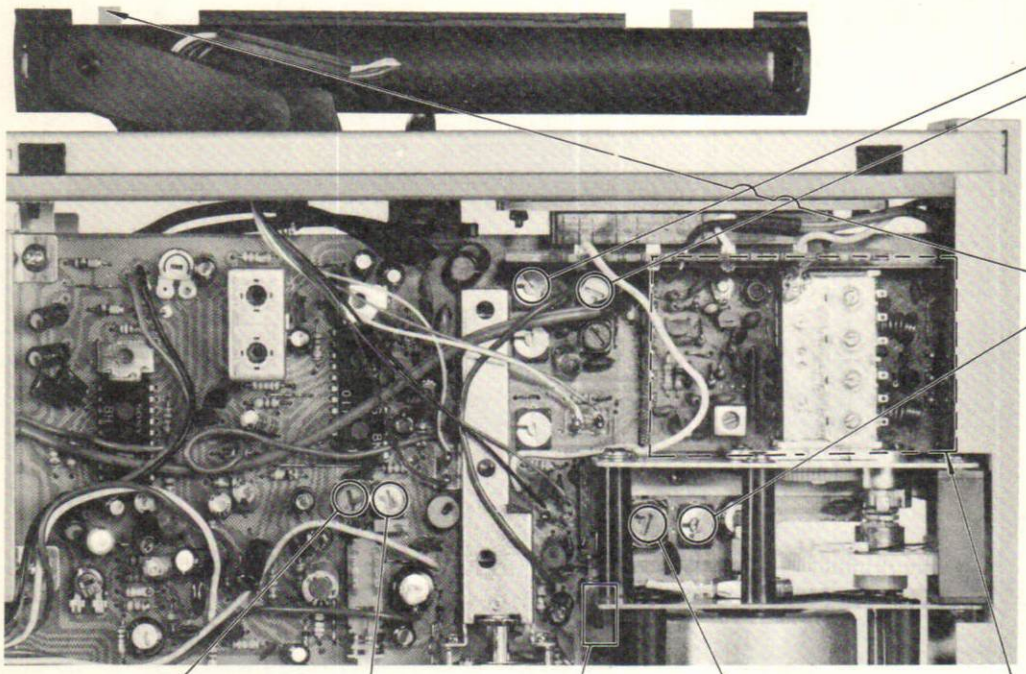
IFT202	IFT201
450 kHz	
Adjust for a maximum reading on VOM (1).	
AM IF ALIGNMENT	

3-3. LW SECTION





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



CT254	365 kHz
T253	145 kHz
Adjust for a maximum reading on VOM (1).	
LW FREQUENCY COVERAGE ADJUSTMENT	

L251	170 kHz
CT252	310 kHz
• LW ANTENNA SELECT: FERRITE-ROD position. • Adjust for a maximum reading on VOM (1).	
LW TRACKING ADJUSTMENT	

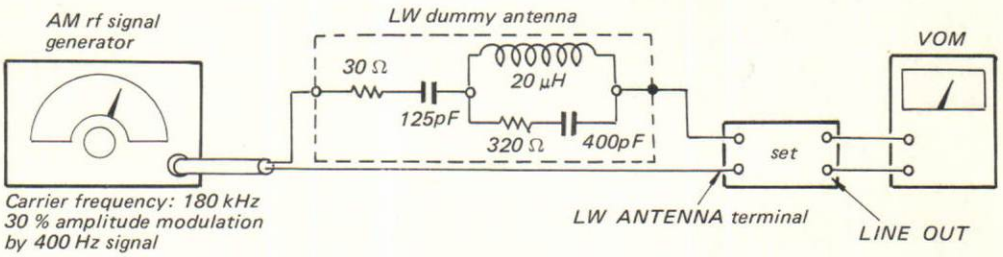
IFT202	IFT201
450 kHz	
Adjust for a maximum reading on VOM (1).	
AM IF ALIGNMENT	

LW ANTENNA SELECT switch (S251)
EXT
FERRITE-ROD

T251

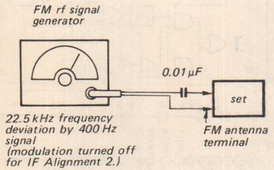
FM front-end

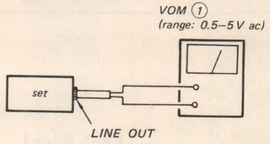
LW EXT Antenna Coil Adjustment



1. Set the LW ANTENNA SELECT switch to EXT position.
2. Tune the set to 180 kHz and adjust T251 for a maximum reading on VOM.

3-4. FM SECTION



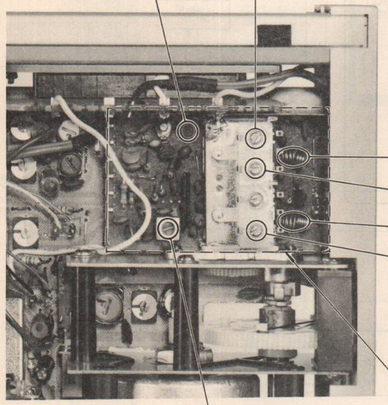


The FM front-end section can not be repaired and it is only supplied as the FM front-end block.

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

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM ①.	
87.1 MHz (87.5 MHz)	108.5 MHz (108 MHz)
FM OSC coil	FM OSC trimmer

( ): in West Germany



FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM ①.	
FM rf coil	87.1 MHz (87.5 MHz)
FM antenna trimmer	108.5 MHz (108 MHz)
FM antenna coil	87.1 MHz (87.5 MHz)
FM antenna trimmer	108.5 MHz (108 MHz)

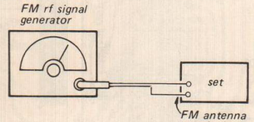
( ): in West Germany

FM IFT
Adjust for a maximum reading on VOM ①.
FM IF ALIGNMENT (10.7 MHz with modulation)

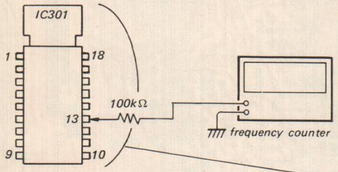
76 kHz Adjustment

A) Regular Method

Procedure:



Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100%)
Output level: 1 mV (60 dB)

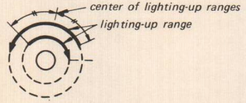


1. Tune the set to 98 MHz.
2. Adjust RV301 for 76 kHz on the counter.

B) Simple Method

Procedure:

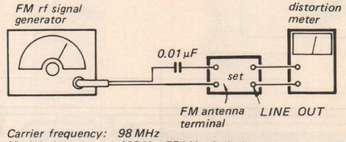
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV301 clockwise or counterclockwise and memorize the lighting-up range of the atereo lamp.
3. Secure RV301 at the center of the lighting-up range of both turns as shown below.



Discriminator Adjustment

A) Secondary Side

Procedure:

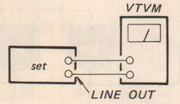


Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100%)
Output level: 1 mV (60 dB)

1. Turn the core (secondary side: black) of IFT203 for minimum distortion reading on the distortion meter.

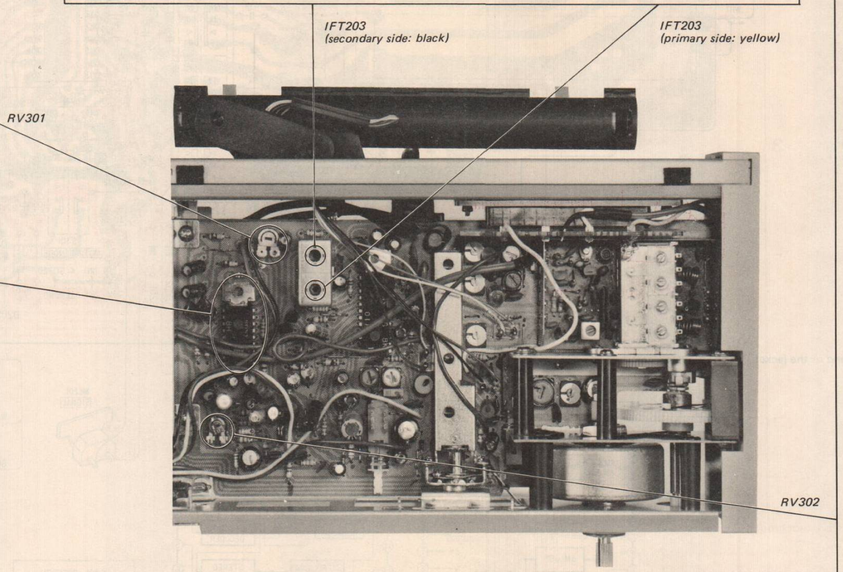
B) Primary Side

1. Connect the VTVM as shown below.



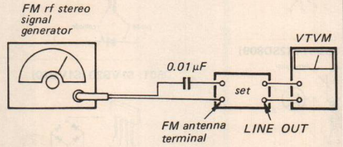
2. Detune the set.
3. Turn the core (primary side: yellow) of IFT203 for maximum reading on VTVM.

Noe When the ceramic filter is replaced, these adjustments should be made.
Repeat the secondary side and primary side adjustments several times.



FM Stereo Separation Adjustment

Procedure:



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Mode: Stereo
Modulation:
Audio (400 Hz): 67.5 kHz deviation (90%)
Pilot (19 kHz): 7.5 kHz deviation (10%)

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV302 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV302 for minimum reading.

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

The separations of both channels should be equal.

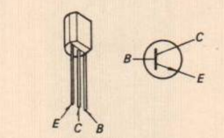
SECTION 4 DIAGRAMS

4-1. MOUNTING DIAGRAM
— Conductor Side —

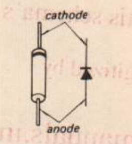
Replacement Semiconductors

For replacement, use semiconductors except in ( ).

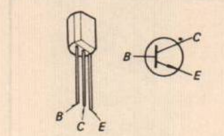
Q201–203, Q301: 2SC1364 (2SC1815)



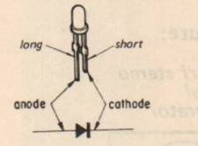
D201, 202, 251, 252; D302, 401; D403–408: 1S1555



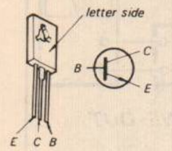
Q401, 403: 2SC710-15 (2SC710)



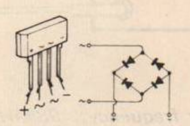
D203: SLB26YY
D301: SLB26UR



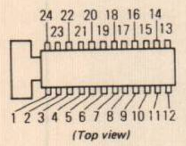
Q501: 2SD414 (2SD809)



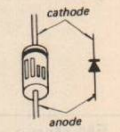
D501: S1VB20 (S1VB10)



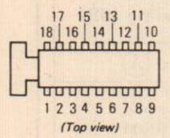
IC201: CX168



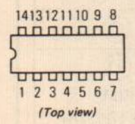
D502: EQB01-15 (EQA01-15R)
D503: EQB01-08 (EQA01-08R)



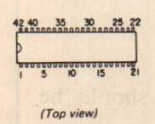
IC301: CX178



IC401: MSL2318RS

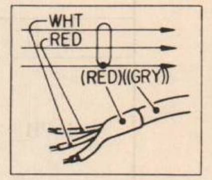


IC402: LC7253

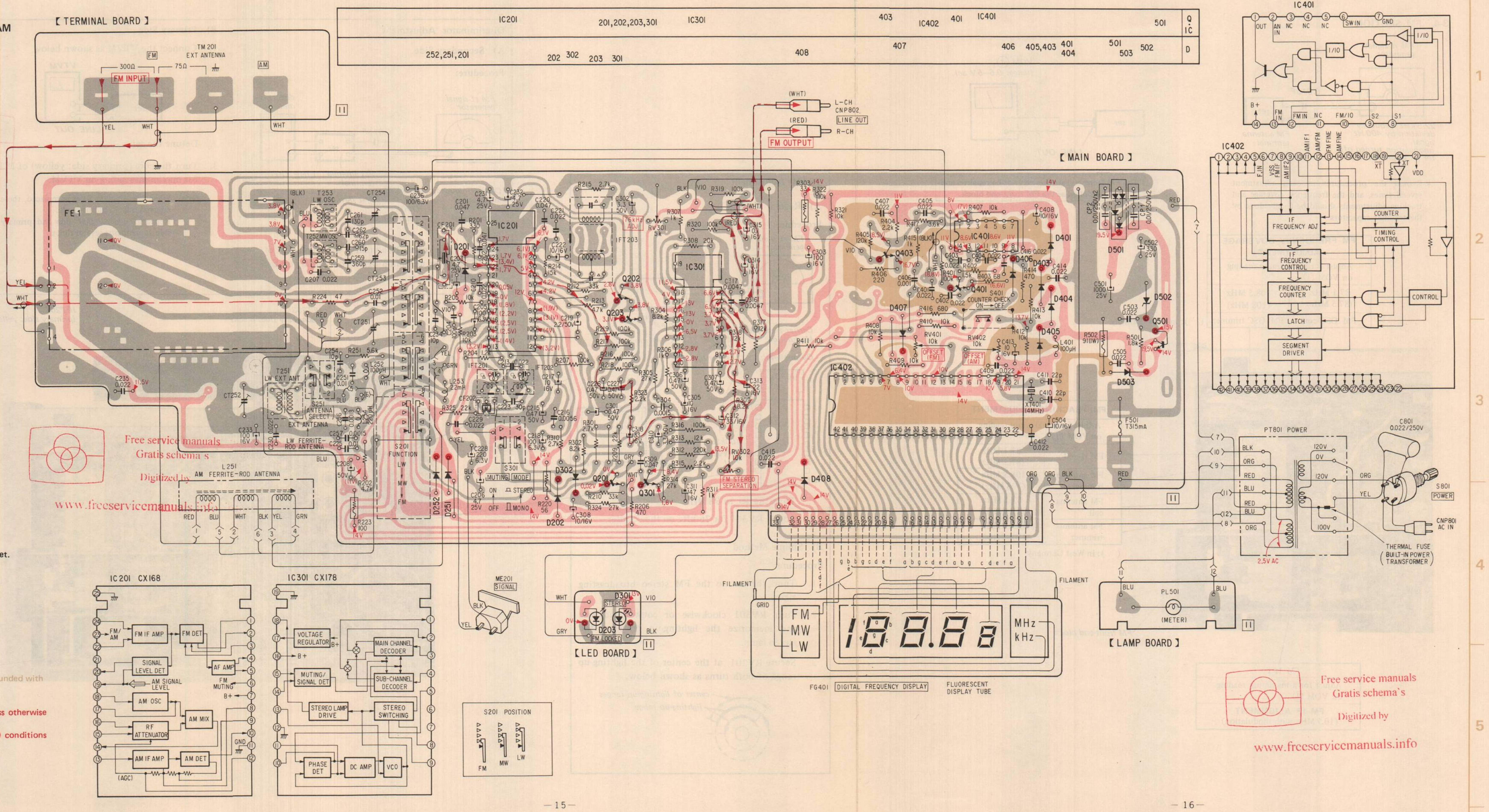


Note:

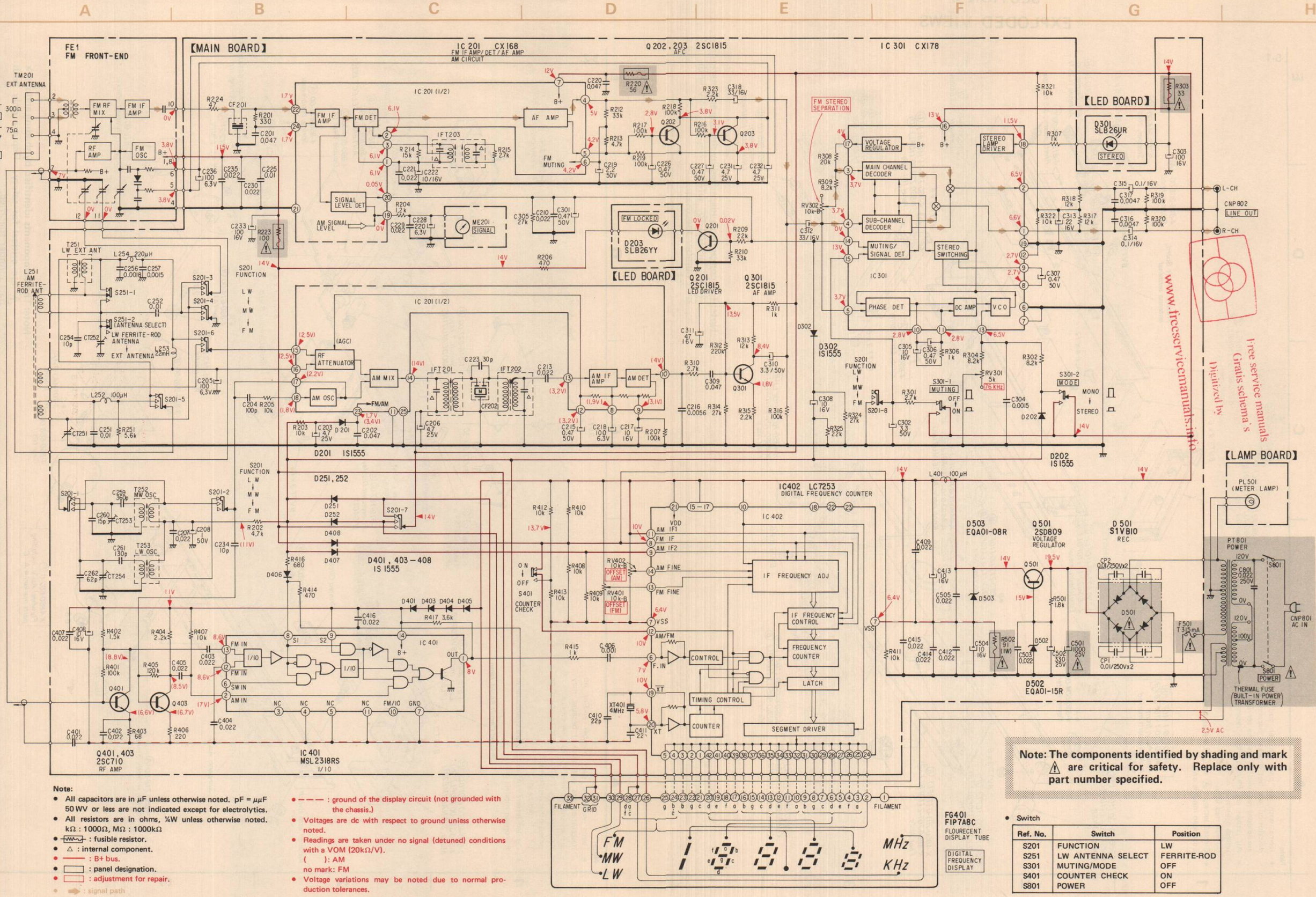
- Color code of sleeving over the end of the jacket.



- : B+ pattern
- : ground of the display circuit (not grounded with the chassis)
- —▸—: signal path
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal (detuned) conditions with a VOM (20kΩ/V).
  ( ): AM
  no mark: FM
- ■ : part mounted on the conductor side.



4-2. SCHEMATIC DIAGRAM



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

Note:

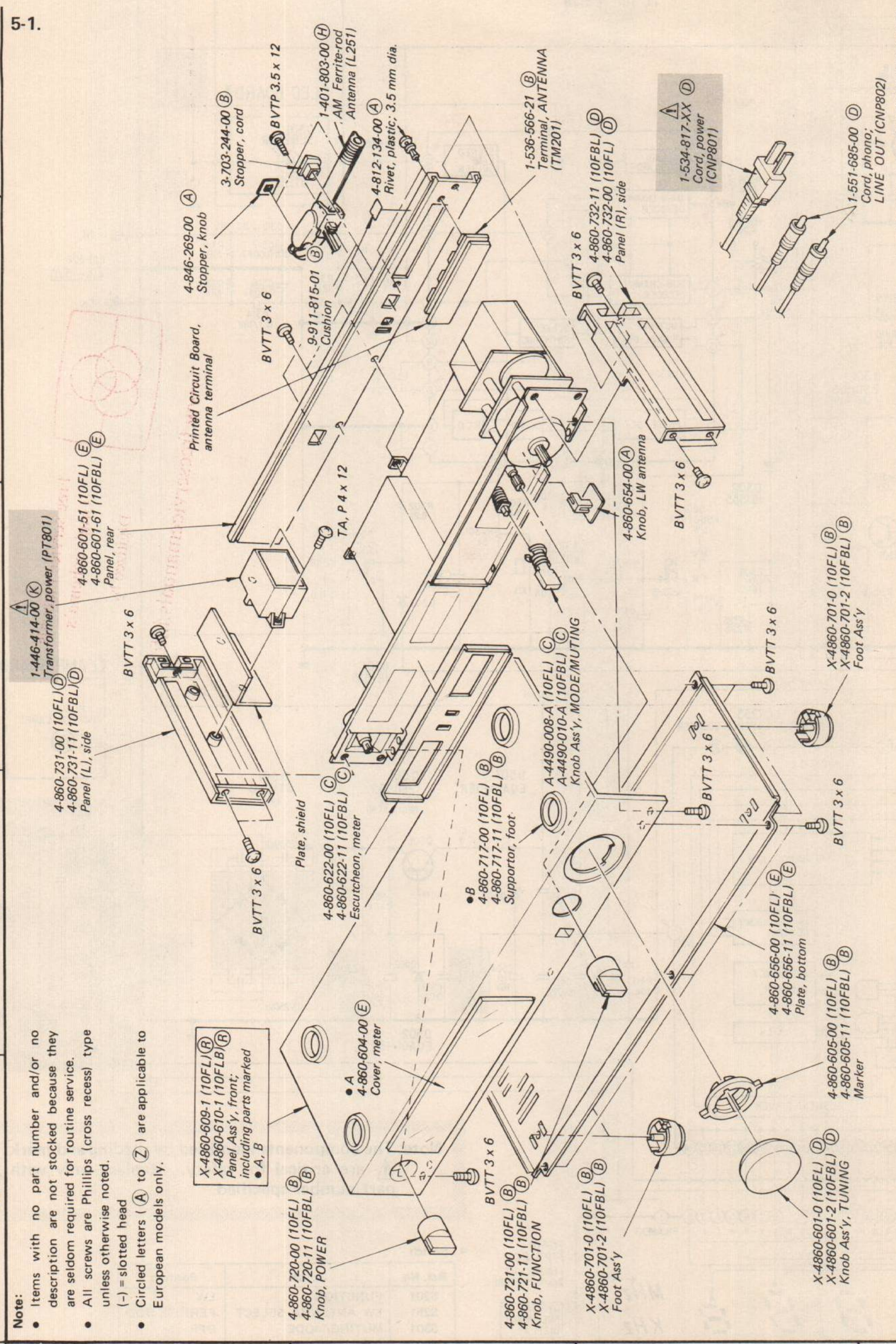
- All capacitors are in μF unless otherwise noted. pF = μμF
  50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted.
  kΩ : 1000Ω, MΩ : 1000kΩ
- ⏦ : fusible resistor.
- △ : internal component.
- ——— : B+ bus.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- ➡ : signal path
- – – – : ground of the display circuit (not grounded with the chassis.)
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal (detuned) conditions with a VOM (20kΩ/V).
  ( ): AM
  no mark: FM
- Voltage variations may be noted due to normal production tolerances.

- Switch

Ref. No.	Switch	Position
S201	FUNCTION	LW
S251	LW ANTENNA SELECT	FERRITE-ROD
S301	MUTING/MODE	OFF
S401	COUNTER CHECK	ON
S801	POWER	OFF

SECTION 5
EXPLODED VIEWS

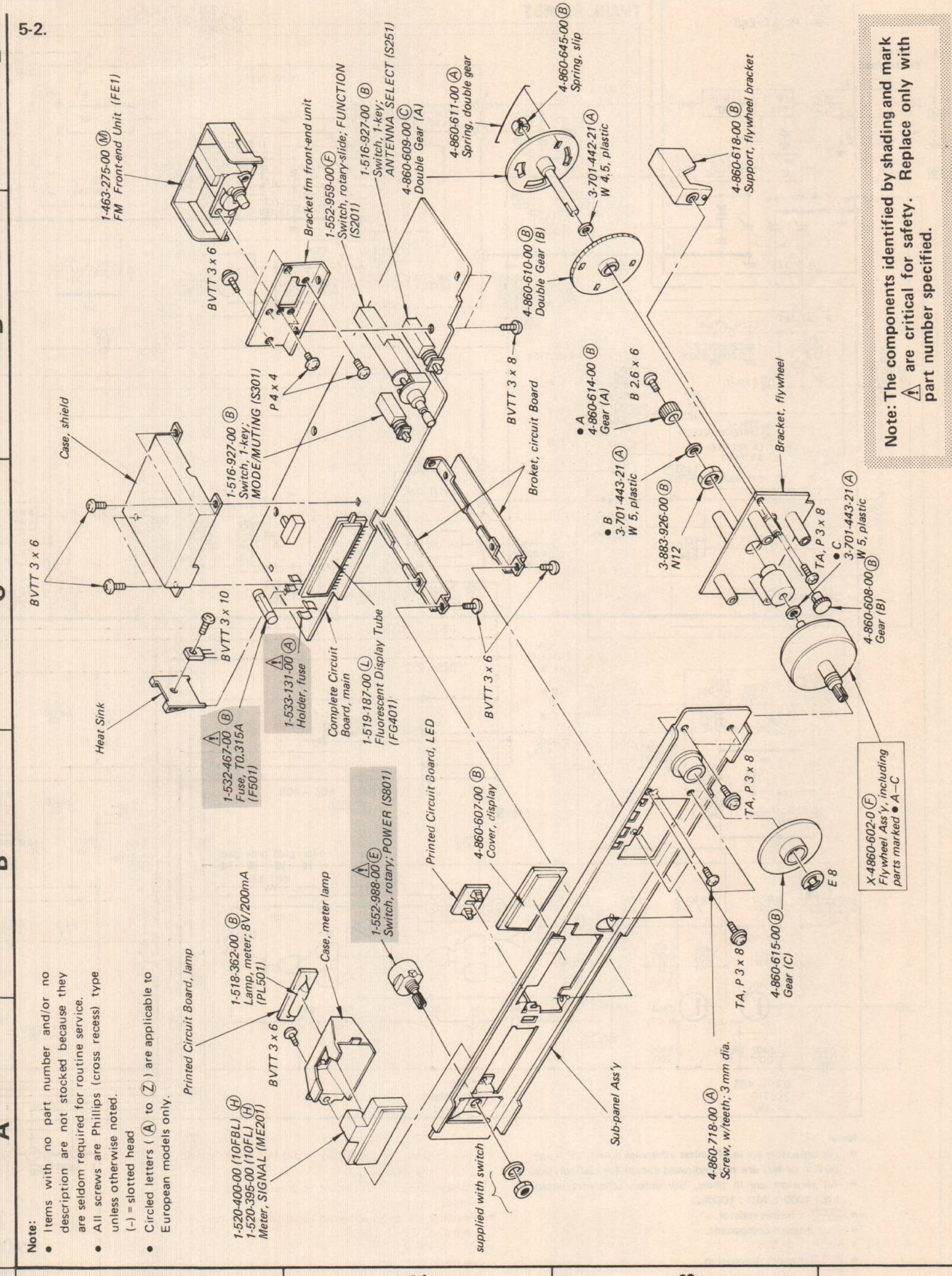
5-1.



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

5-2.



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.

SECTION 6
ELECTRICAL PARTS LIST

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

Ref. No.	*Part. No.*	*Description*
		SEMICONDUCTORS
		Transistors
⇒Q201–203 ⇒Q301	8-729-663-47	Ⓒ 2SC1364
⇒Q401, 403	8-729-671-15	Ⓑ 2SC710-15
⇒Q501	8-729-141-43	Ⓑ 2SD414
		ICs
IC201	8-751-680-01	Ⓘ CX168
IC301	8-751-780-00	Ⓖ CX178
IC401	8-759-923-18	Ⓙ MSL2318RS
IC402	8-759-872-53	Ⓜ LC7253
		Diodes
D201, 202	8-719-815-55	Ⓑ 1S1555
D203	8-719-902-61	Ⓑ SLB26YY
D251, 252	8-719-815-55	Ⓑ 1S1555
D301	8-719-902-62	Ⓑ SLB26UR
D302 D401 D403–408	8-719-815-55	Ⓑ 1S1555
⇒D501	⚠8-719-511-20	Ⓒ S1VB20
⇒D502	8-719-931-15	Ⓑ EQB01-15
⇒D503	8-719-931-08	Ⓑ EQB01-08
		COILS
L251	1-401-803-00	Ⓗ AM Ferrite-rod Ant
L252	1-407-169-XX	Ⓐ 100μH, microinductor
L253	1-408-221-00	Ⓑ 22mH, microinductor
L254	1-407-173-XX	Ⓐ 220μH, microinductor
L401	1-407-169-XX	Ⓐ 100μH, microinductor
T251	1-401-709-00	Ⓒ LW Ant
T252	1-405-847-00	Ⓑ AM Osc
T253	1-405-872-00	Ⓑ LW Osc
		TRANSFORMERS
IFT201	1-409-323-00	Ⓑ AM IFT
IFT202	1-409-324-00	Ⓑ AM IFT
IFT203	1-404-167-00	Ⓓ FM IFT
PT801	⚠1-446-414-00	Ⓚ Power

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. pF : μμF, elect : electrolytic		
C201, 202	1-101-006-00	Ⓐ 0.047		
C203	1-123-328-00	Ⓐ 4.7	25V	elect
C204	1-102-973-00	Ⓐ 100p		
C205	1-123-295-00	Ⓐ 100	6.3V	elect
C206	1-123-328-00	Ⓐ 4.7	25V	elect
C207	1-101-005-00	Ⓐ 0.022		
C208	1-123-352-00	Ⓐ 1	50V	elect
C210	1-101-005-00	Ⓐ 0.022		
C213	1-101-005-00	Ⓐ 0.022		
C215	1-123-351-00	Ⓐ 0.47	50V	elect
C216	1-108-355-00	Ⓐ 0.0056		mylar
C217	1-123-316-00	Ⓐ 10	16V	elect
C218	1-123-295-00	Ⓐ 100	6.3V	elect
C219	1-123-353-00	Ⓐ 2.2	50V	elect
C220	1-101-006-00	Ⓐ 0.047		
C221	1-101-005-00	Ⓐ 0.022		
C222	1-123-316-00	Ⓐ 10	16V	elect
C223	1-102-962-00	Ⓐ 30p		
C225	1-101-004-00	Ⓐ 0.01		
C226, 227	1-123-351-00	Ⓐ 0.47	50V	elect
C228	1-123-296-00	Ⓐ 220	6.3V	elect
C229, 230	1-101-005-00	Ⓐ 0.022		
C231, 232	1-123-328-00	Ⓐ 4.7	25V	elect
C233	1-123-320-00	Ⓐ 100	16V	elect
C234	1-102-947-00	Ⓐ 10p		
C235	1-101-005-00	Ⓐ 0.022		
C236	1-123-295-00	Ⓐ 100	6.3V	elect
C251, 252	1-101-004-00	Ⓐ 0.01		
C254	1-102-947-00	Ⓐ 10p		
C256	1-102-120-00	Ⓐ 0.0018		
C257	1-102-119-00	Ⓐ 0.0015		

⇒: 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		
C259	1-104-066-00 Ⓐ	360p		polystyrol
C260	1-102-251-00 Ⓐ	15p		
C261	1-103-704-00 Ⓐ	130p		polystyrol
C262	1-102-697-00 Ⓐ	62p		
C301	1-123-351-00 Ⓐ	0.47	50V	elect
C302	1-123-354-00 Ⓐ	3.3	50V	elect
C303	1-123-320-00 Ⓐ	100	16V	elect
C304	1-104-081-00 Ⓐ	0.0015		polystrol
C305	1-123-316-00 Ⓐ	10	16V	elect
C306, 307	1-123-351-00 Ⓐ	0.47	50V	elect
C308	1-123-316-00 Ⓐ	10	16V	elect
C309	1-108-246-00 Ⓐ	0.047		mylar
C310	1-123-354-00 Ⓐ	3.3	50V	elect
C311	1-123-319-00 Ⓐ	47	16V	elect
C312	1-123-318-00 Ⓐ	33	16V	elect
C313	1-123-317-00 Ⓐ	22	16V	elect
C314, 315	1-131-451-00 Ⓐ	0.1	16V	tantalum
C316, 317	1-108-234-00 Ⓐ	0.0047		mylar
C318	1-123-318-00 Ⓐ	33	16V	elect
C401–405	1-101-005-00 Ⓐ	0.022		
C406	1-101-918-00 Ⓐ	0.001		
C407	1-101-005-00 Ⓐ	0.022		
C408	1-123-316-00 Ⓐ	10	16V	elect
C409	1-101-005-00 Ⓐ	0.022		
C410, 411	1-102-959-00 Ⓐ	22p		
C412	1-101-005-00 Ⓐ	0.022		
C413	1-123-316-00 Ⓐ	10	16V	elect
C414–416	1-101-005-00 Ⓐ	0.022		
C501	⚠1-123-337-00 Ⓑ	1000	25V	elect
C502	1-123-335-00 Ⓑ	330	25V	elect
C503	1-101-005-00 Ⓐ	0.022		
C504	1-123-316-00 Ⓐ	10	16V	elect
C505	1-101-005-00 Ⓐ	0.022		
C801	⚠1-130-267-00 Ⓒ	0.022	250V	film
CT251–254	1-141-213-00 Ⓑ	trimmer		

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

Ref. No.	Part No.	Description		
RESISTORS				
All resistors are in ohms. Common ¼W carbon resistors are omitted. Check schematic diagram for values.				
R220	⚠1-212-875-00 Ⓐ	56	¼W	fusible
R223	⚠1-217-399-00 Ⓑ	100	¼W	fusible
R303	⚠1-217-393-00 Ⓑ	33	¼W	fusible
R502	⚠1-213-083-00 Ⓐ	91	1W	fusible
RV301	1-226-235-00 Ⓐ	5k-B, adjustable; 76kHz		
RV302, RV401,402	1-226-236-00 Ⓐ	10k-B, adjustable; FM stereo separation, offset		
SWITCHES				
S201	1-552-959-00 Ⓕ	Rotary-slide, FUNCTION		
S251	1-516-927-00 Ⓑ	1 key, LW ANTENNA SELECT		
S301	1-516-927-00 Ⓑ	1 key, MODE/MUTING		
S401	1-552-370-00 Ⓑ	Slide, COUNTER CHECK		
S801	⚠1-552-988-00 Ⓔ	Rotary, POWER		
MISCELLANEOUS				
CF201	1-527-277-91 Ⓕ	Filter, solid state; 10.7MHz		
CF202	1-527-403-00 Ⓒ	Filter, mechanical		
CNP801	⚠1-534-817-XX Ⓓ	Cord, power		
CNP802	1-551-685-00 Ⓓ	Cord, phono; LINE OUT		
CP1, 2	1-102-394-00 Ⓐ	Capacitor, ceramic; 0.01/250V x 2		
F501	⚠1-532-467-00 Ⓑ	Fuse, T0.315A		
FE1	1-463-275-00 Ⓜ	FM Front-end Unit		
M201	1-520-395-00 Ⓗ	Meter, SIGNAL (10FL)		
	1-520-400-00 Ⓗ	Meter, SIGNAL (10FBL)		
PL501	1-518-362-00 Ⓑ	Lamp, meter; 8V/200mA		
XT401	1-527-533-00 Ⓓ	Crystal Oscillator		
	1-519-187-00 Ⓛ	Fluorescent Display Tube		
	⚠1-533-131-00 Ⓐ	Holder, fuse		
	1-536-566-21 Ⓑ	Terminal, ANTENNA		

ACCESSORIES AND PACKING MATERIAL

Part No.		Description
3-770-683-11	Ⓙ	Manual, instruction; GG-10F/10FB
4-860-646-00	Ⓐ	Sheet, protection
4-860-648-00	Ⓒ	Cushion
4-860-661-00	Ⓓ	Carton (10FL)
4-860-662-00	Ⓓ	Carton (10FBL)

9-958-662-01

Sony Corporation

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