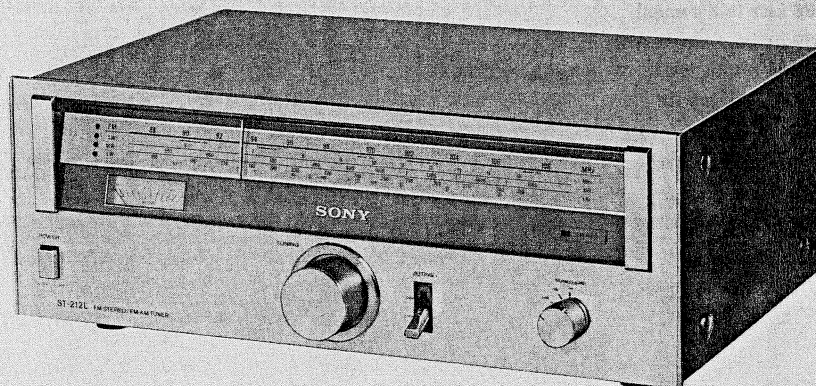


ST-212L

AEP Model
UK Model



FM STEREO/FM-AM TUNER

SPECIFICATIONS

GENERAL


System:	FM stereo, FM/AM superheterodyne tuner
Power Requirements:	220 V ac, 50 Hz (AEP model) 240 V ac, 50 Hz (UK model)
Power Consumption:	14 W
Dimensions:	Approx. 407 (w) x 150 (h) x 300 (d) mm 16 (w) x 5 $\frac{7}{8}$ (h) x 11 $\frac{7}{8}$ (d) inches including projecting parts and controls
Weight:	Approx. 4.6 kg, 10 lb 2 oz (net) Approx. 5.6 kg, 12 lb 6 oz (in shipping carton)

FM SECTION

Tuning Range:	87.5 — 108 MHz
Antenna Terminals:	300 Ω , balanced 75 Ω , unbalanced
Intermediate Frequency:	10.7 MHz
Usable Sensitivity:	5.0 μ V S/N = 30 dB
S/N Ratio:	60 dB (mono) 50 dB (stereo)
Harmonic Distortion:	at 1 kHz 0.8 % (mono) 1.2 % (stereo)
Separation:	20 dB at 1 kHz
Frequency Response:	30 Hz — 15 kHz \pm 3 dB
Capture Ratio:	2.5 dB
AM Suppression Ratio:	46 dB
Image Rejection:	28 dB (108 MHz)
IF Rejection:	55 dB (88 MHz)
Output Level/Impedance:	380 mV, 10 k Ω , 75 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

AM SECTION

Tuning Range: MW 530 — 1,605 kHz

LW 150 — 350 kHz

SW 5.8 — 15.8 MHz

Antenna: MW/LW built-in ferrite-rod antenna

MW/LW/SW external antenna terminal

Intermediate Frequency: 455 kHz (AEP model)

468 kHz (UK model)

Usable Sensitivity: 389 μ V/m, built-in antenna

125 μ V/m, external antenna at 1,000 Hz

S/N Ratio: 38 dB at 50 mV/m

Harmonic Distortion: 1.5 % at 400 Hz

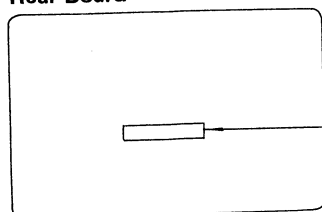
Image Rejection: 31 dB at 1,605 kHz

IF Rejection: 24 dB at 530 kHz

MODEL IDENTIFICATION

— *Specification Label* —

Rear Board



AC 220V (AEP model)
AC 240V (UK model)

$$\omega$$


ST-21 2L

SECTION 2 DISASSEMBLY

2-1. REMOVAL

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

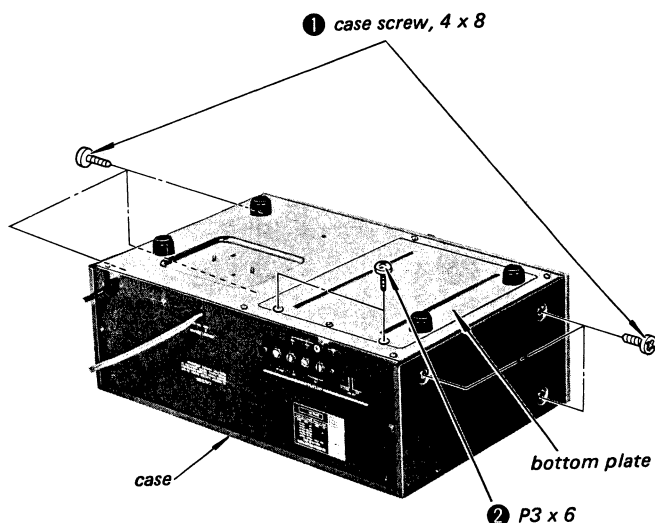
CASE AND BOTTOM PLATE REMOVAL

Case Removal: ① (six screws).

Each component side of the circuit boards can be checked.

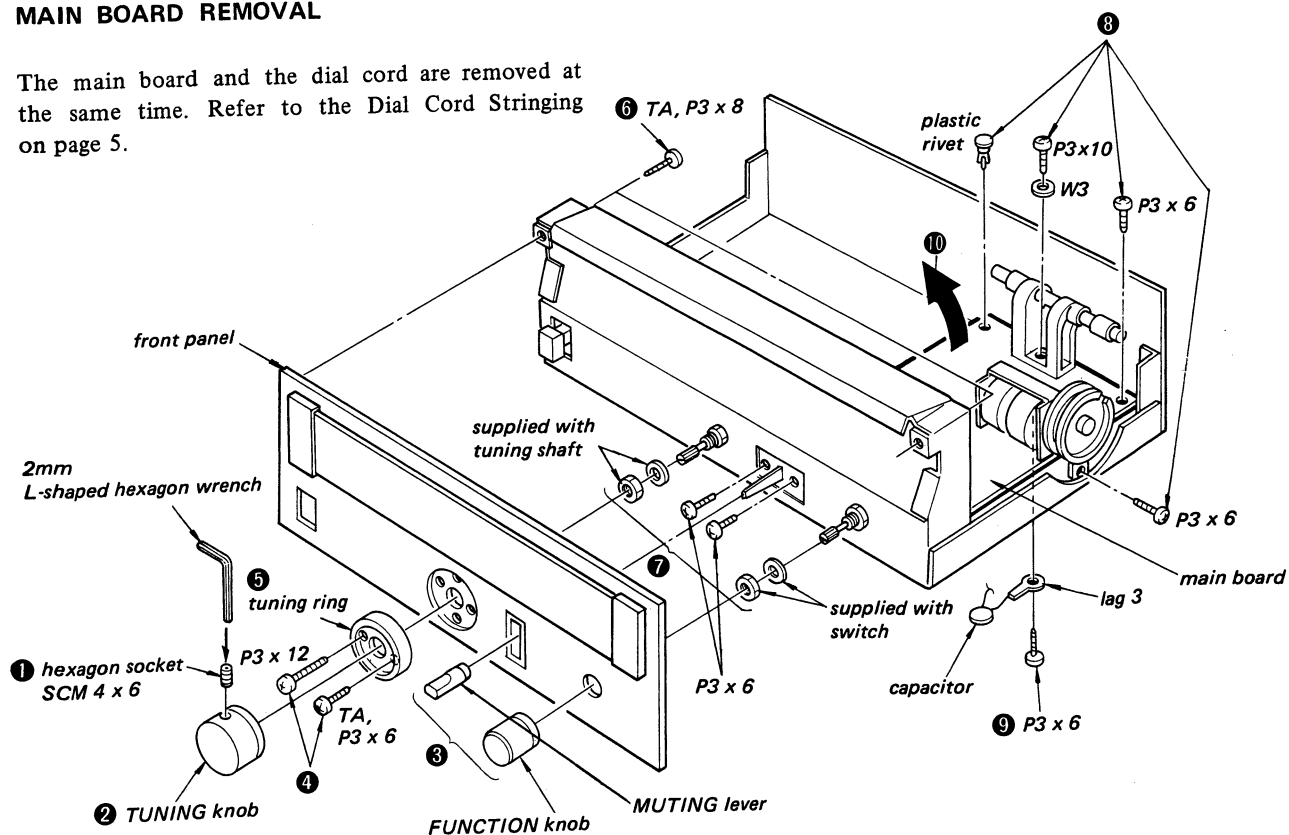
Bottom Plate Removal: ② (two screws).

Each conductor side of the circuit boards can be checked.



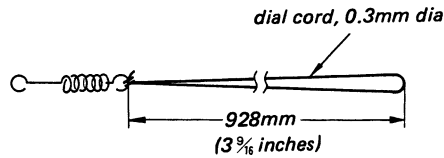
MAIN BOARD REMOVAL

The main board and the dial cord are removed at the same time. Refer to the Dial Cord Stringing on page 5.



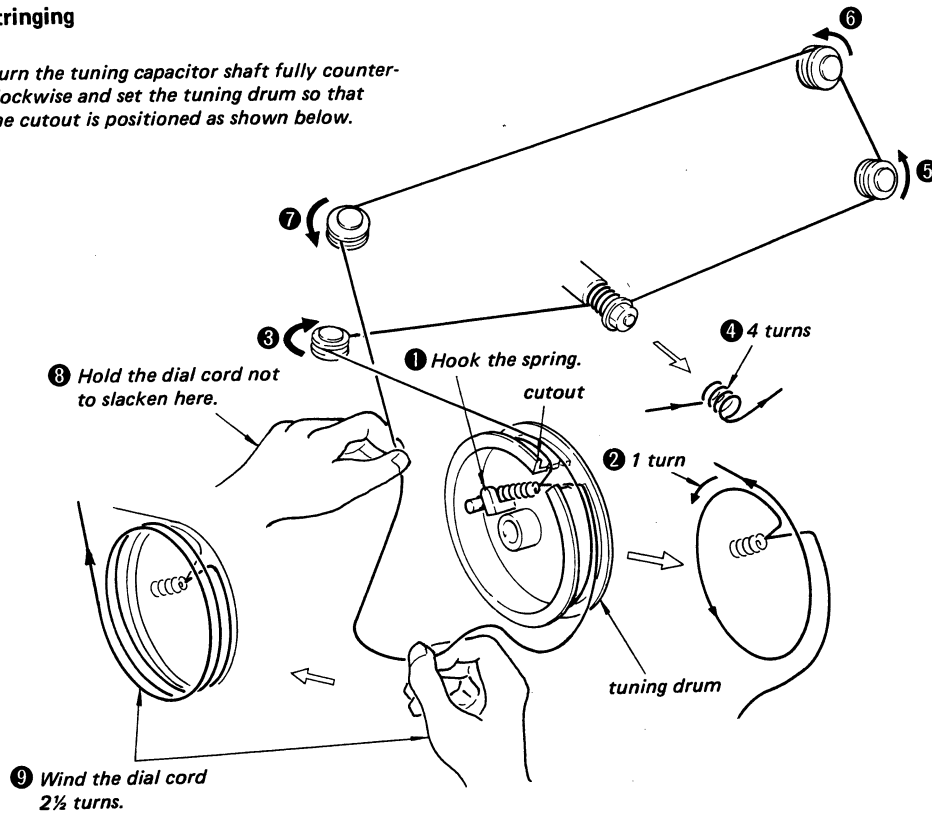
2-2. DIAL CORD STRINGING

1. Preparation



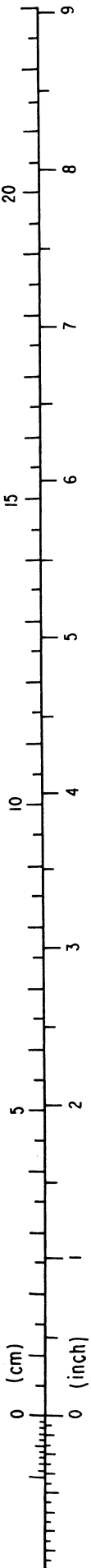
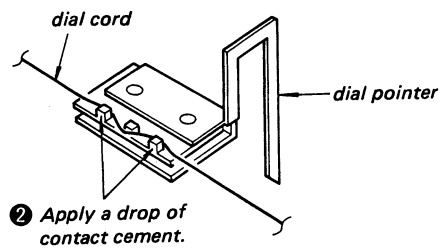
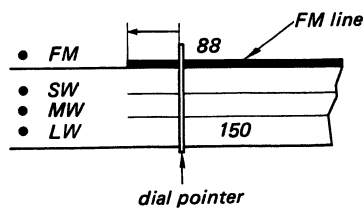
2. Stringing

Turn the tuning capacitor shaft fully counter-clockwise and set the tuning drum so that the cutout is positioned as shown below.



3. Dial Pointer Installation

- 1 Turn the tuning capacitor shaft fully counterclockwise (frequency minimum) and slide the dial pointer to the left end of FM line.

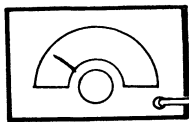


SECTION 3
ADJUSTMENTS

MW, SW SECTION

• MW

AM rf signal
generator

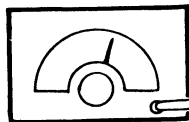


30% amplitude
modulation by
400 Hz signal

Put the lead-wire
antenna close to
the set.

• SW

AM rf signal
generator

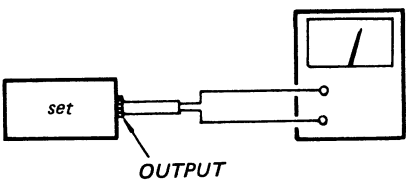


30% amplitude
modulation by
400 Hz signal

10pF

external antenna
terminal

VOM ①
(range: 0.5–5 V ac)



- 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

Adjust for a maximum reading on VOM ① .

L112	520 kHz
CT107	1680 kHz

MW TRACKING ADJUSTMENT

Adjust for a maximum reading on VOM ① .

L108	600 kHz
CT104	1400 kHz

AM IF ALIGNMENT

Adjust for a maximum reading on VOM ① .

CFU101	455 kHz (468 kHz)
--------	-------------------

(): UK model

CT103 16.1 MHz

L107 5.5 MHz

Adjust for a maximum reading on VOM ① .

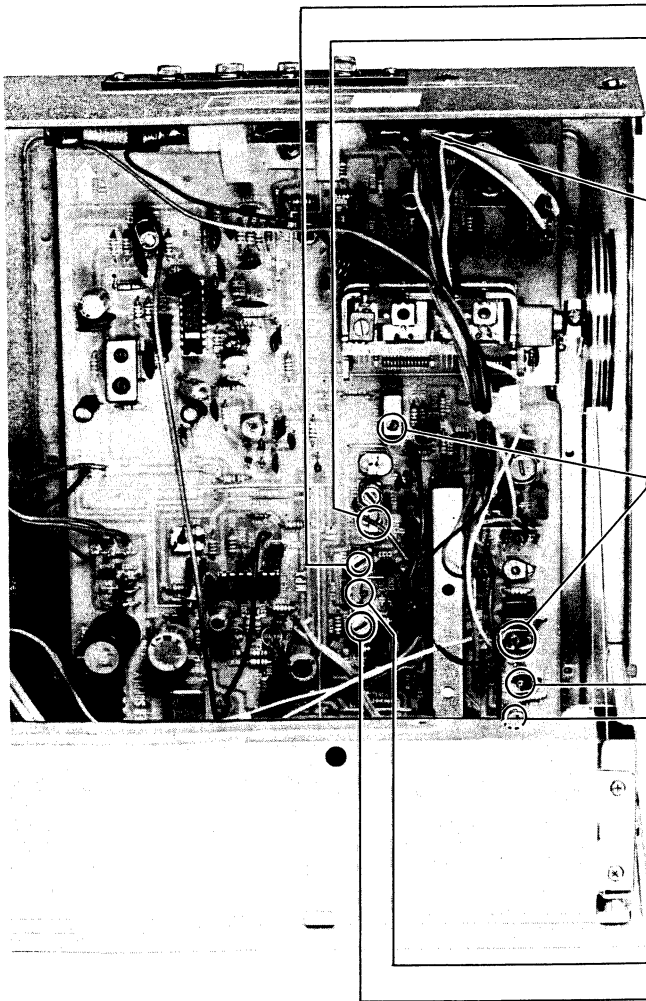
SW TRACKING ADJUSTMENT

CT108 16.1 MHz

L113 5.5 MHz

Adjust for a maximum reading on VOM ① .

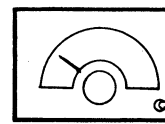
SW FREQUENCY COVERAGE ADJUSTMENT



LW SECTION

• S2 (LW ANT): BUILT IN

AM rf signal generator

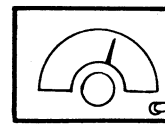


30% amplitude modulation by 400 Hz signal

Put the lead-wire antenna close to the set.

• S2 (LW ANT): EXT

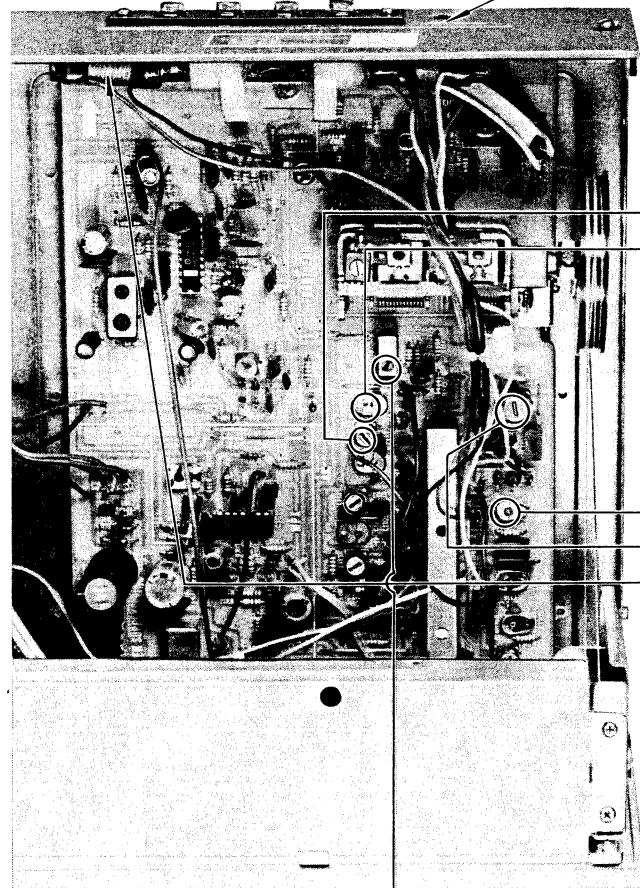
AM rf signal generator



30% amplitude modulation by 400 Hz signal

10pF

external antenna terminal

S2 LW ANT
BUILT IN ↔ EXT

LW FREQUENCY COVERAGE ADJUSTMENT

Adjust for a maximum reading on VOM ①.

L111	145 kHz
CT106	365 kHz

CT105	310 kHz
L106 (S2 : EXT)	180 kHz
L108 (S2 : BUILT IN)	170 kHz

Adjust for a maximum reading on VOM ①.

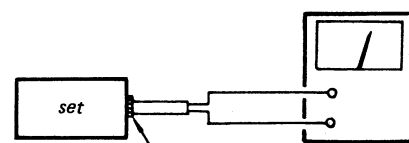
LW TRACKING ADJUSTMENT

AM IF ALIGNMENT

Adjust for a maximum reading on VOM ①.

CFU101	455 kHz (468 kHz)
--------	-------------------

(): UK model

VOM ①
(range: 0.5–5 V ac)

OUTPUT

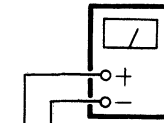
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM SECTION

DISCRIMINATOR ALIGNMENT

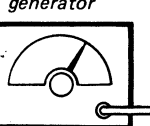
Procedure:

- Primary-Side of T201
 - Detune the set.
 - Adjust the primary-side core (blue) of T201 for 0V reading on VOM.

VOM
(range: 0.5–1V dc)

2. Secondary-Side of

FM rf signal generator



monaural

FM Signal Gene

Carrier frequency
Modulation:

Output level:

Procedure:

Tune the tune
secondary-side
minimum read

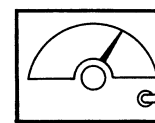
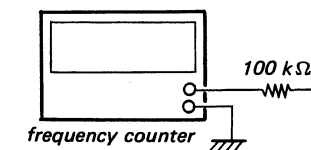
3. Repeat the abo

19 kHz Adjustment

A) Regular Method

Procedure:

FM rf signal generator

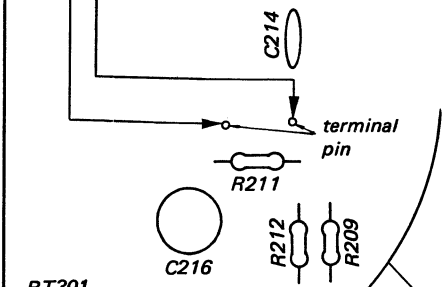
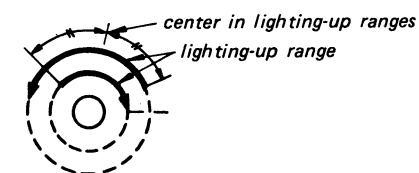
0.01 μF
set
external antenna terminalCarrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation
Output level: 1 mV (60 dB)

- Ground the jumper. (See Fig. 1)
- Turn the set to 98 MHz.
- Adjust RT301 for 19 kHz ±20 Hz on the counter.

B) Simple Method

Procedure:

- Tune the set to the FM stereo broadcasting signal.
- Turn RT301 clockwise or counterclockwise and memorize the lighting-up range of stereo lamp.
- Secure RT301 at the center in lighting-up range of both turns as shown below.



RT301

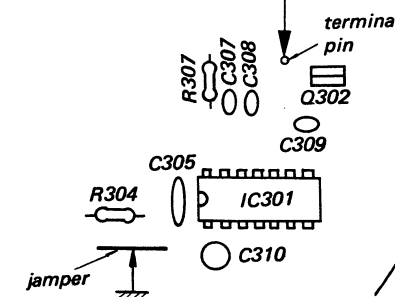


Fig. 1

FM SECTION

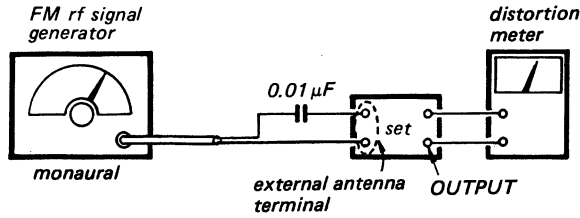
DISCRIMINATOR ALIGNMENT

Procedure:

1. Primary-Side of T201
 - 1) Detune the set.
 - 2) Adjust the primary-side core (blue) of T201 for 0V reading on VOM.

VOM
(range: 0.5–1V dc)

2. Secondary-Side of T201



FM Signal Generator Setting:

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

Procedure:

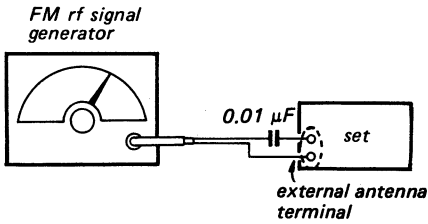
Tune the tuner to 98 MHz and adjust the secondary-side core (black) of T201 for minimum reading on the distortion meter.

3. Repeat the above steps 1 and 2 several times.

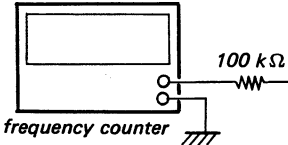
19 kHz Adjustment

A) Regular Method

Procedure:



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



1. Ground the jumper. (See Fig. 1)
2. Turn the set to 98 MHz.
3. Adjust RT301 for 19 kHz ±20 Hz on the counter.

B) Simple Method

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RT301 clockwise or counterclockwise and memorize the lighting-up range of stereo lamp.
3. Secure RT301 at the center in lighting-up range of both turns as shown below.

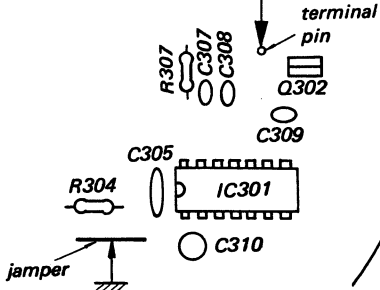
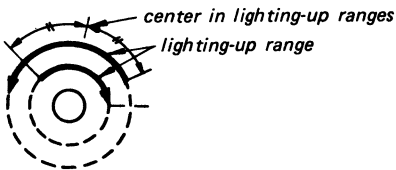
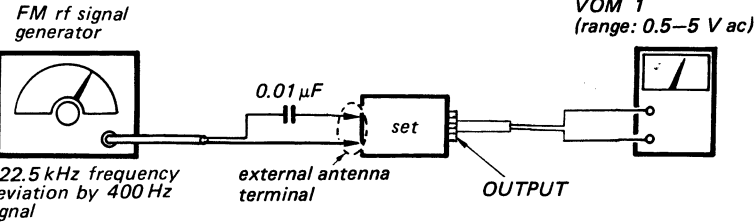


Fig. 1



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

FM IF ALIGNMENT

Adjust for a maximum reading on VOM ①.

T101	10.7 MHz
------	----------

FM TRACKING ADJUSTMENT

Adjust for a maximum reading on VOM ①.

L102, 103	87.2 MHz (87.5 MHz)
CT101	108.4 MHz (108 MHz)

() : in West Germany

FM FREQUENCY COVERAGE ADJUSTMENT

Adjust for a maximum reading on VOM ①.

CT102	108.4 MHz (108 MHz)
L105	87.2 MHz (87.5 MHz)

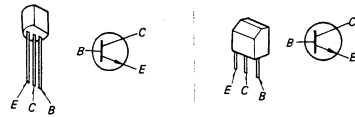
() : in West Germany

SECTION 4
DIAGRAMS

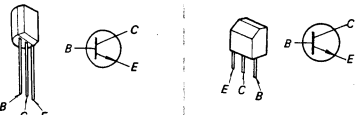
● Replacement Semiconductors

For replacement, use semiconductors except in ().

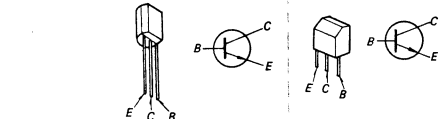
Q101, 102: 2SC930 (2SC1342B)
Q201 : 2SC930 (2SC1342C)



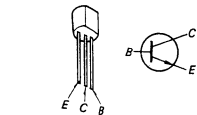
Q103: 2SC710 (2SC460B)
Q104: 2SC710 (2SC460C)



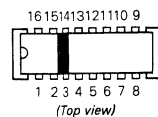
Q301, 401, 451 : 2SC1364 (2SC458C)
Q701, 702 : 2SC1364 (2SC458)
Q302, 351 : 2SC1364 (2SC458)



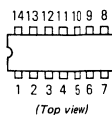
Q501: 2SD667A (2SD667)



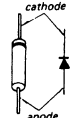
IC201: HA11211



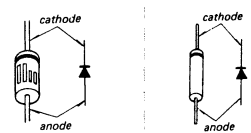
IC301: HA1156W



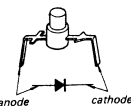
D101, 102 : 1S2076A (1S2076)
D201, 301 : 1T22AM (1N34A)
D202, 203 : 1T22AM (1N34A)
D501, 502 : 10E2 (1N4002)



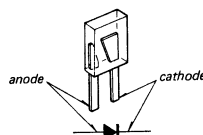
D503: EQB01-13 (HZ12C-2)



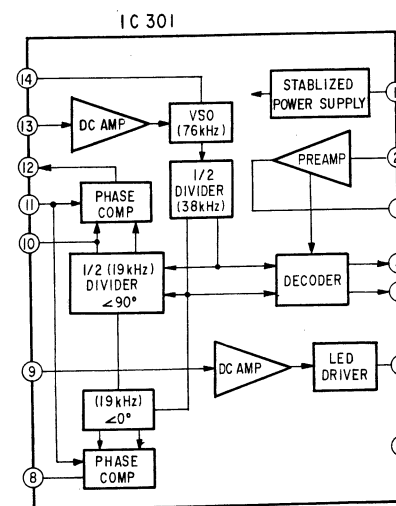
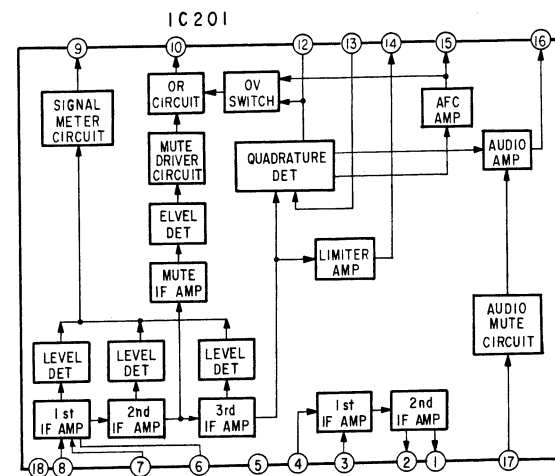
D601-604: SEL103R



D605: GL9PR2

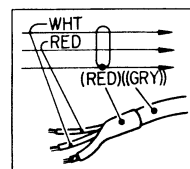


4-1. MOUNTING DIAGRAM



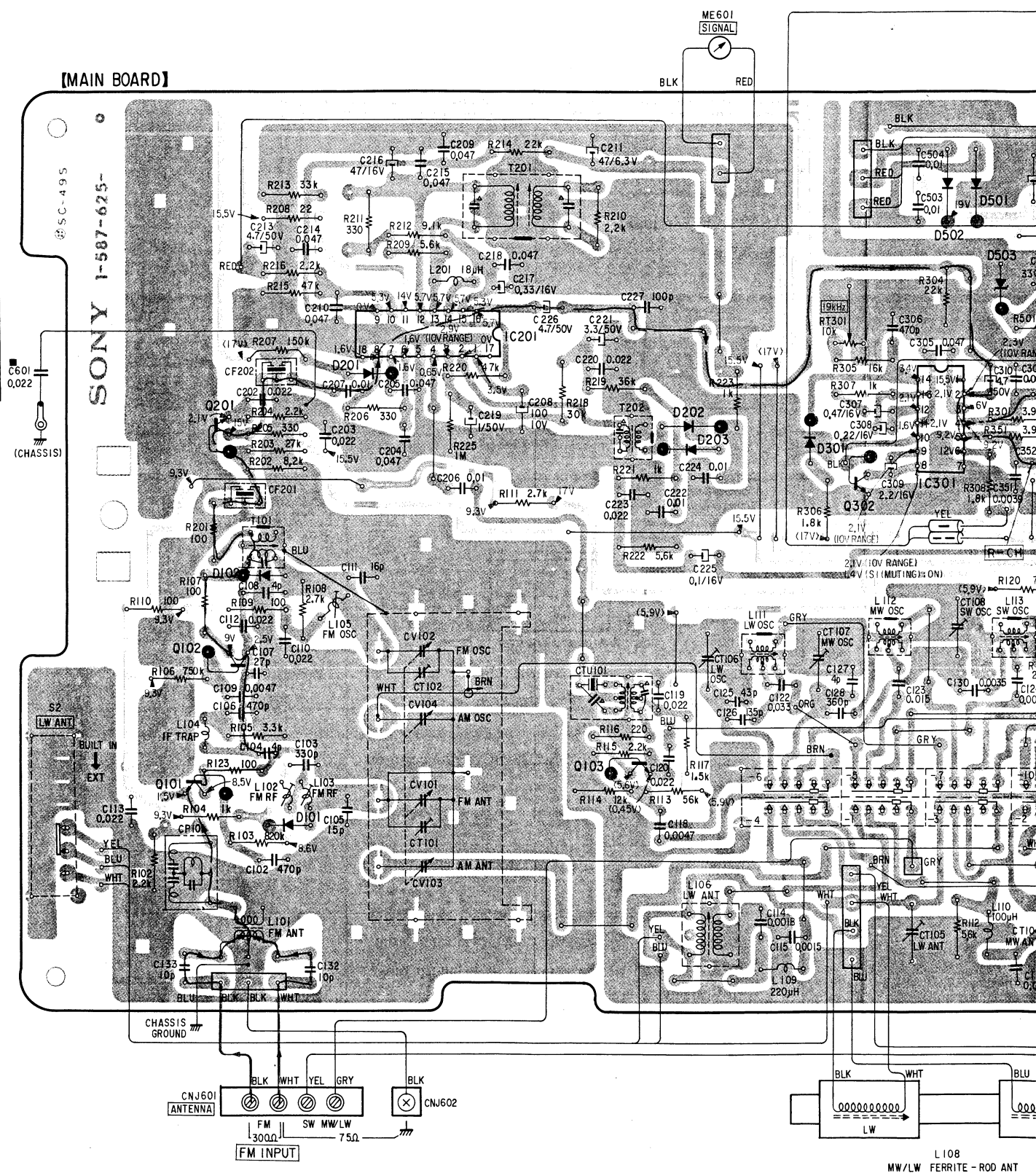
Note:

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



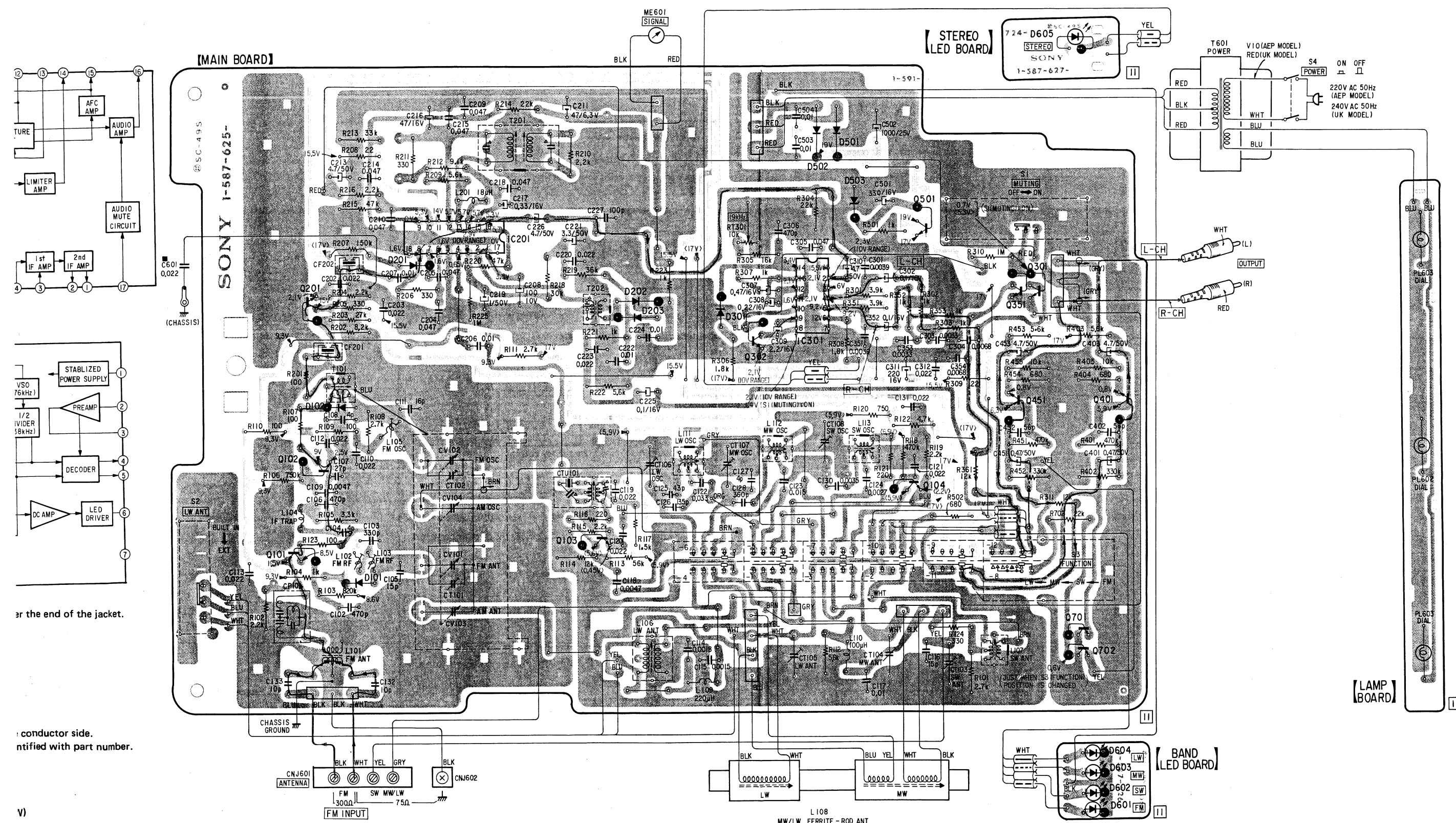
- : part mounted on the conductor side.
- : indicates side identified with part number.
- ▨ : B+ pattern.
- : signal path
- : L-CH
- : R-CH
- < > : AM (MW, SW, LW)
- no mark : FM

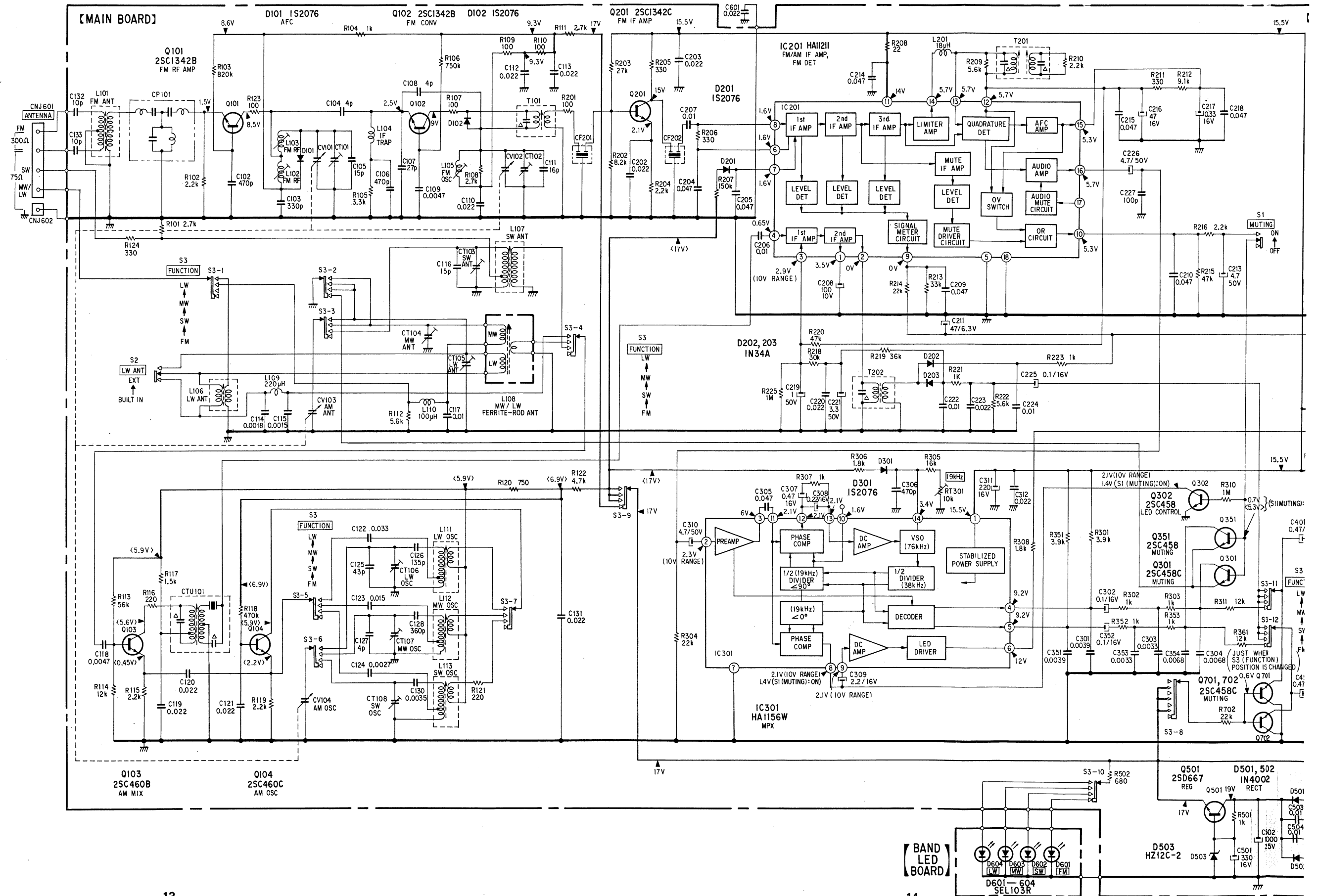
D	102	201	202	301	502	501	503
Q	201	IC201	103	302	IC301		
IC	101						

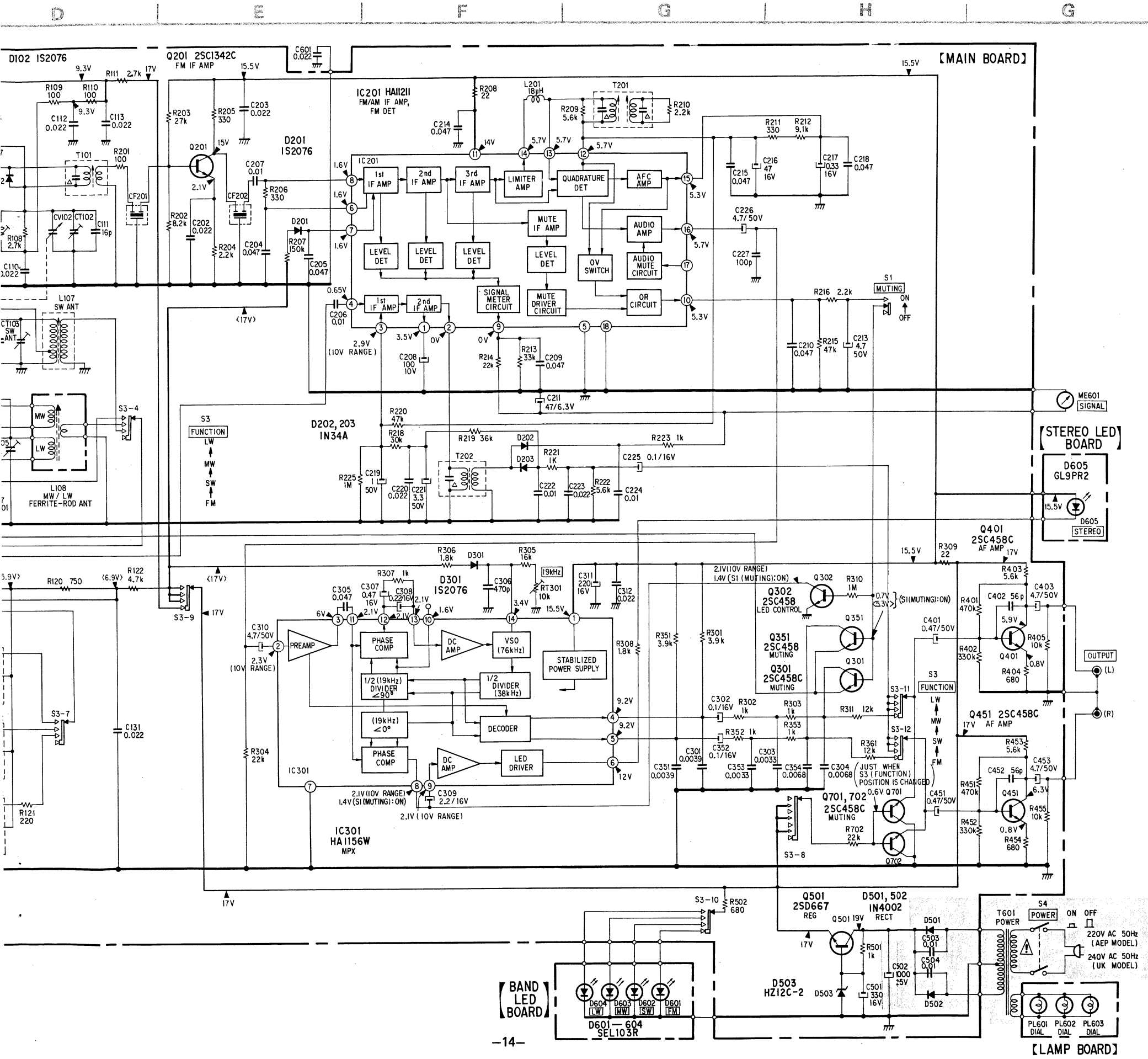


ST-21 2L ST-21 2L

D	102	201	202 203	301	502	501	503	605	604 603 602 601	
Q IC	201 101	102	1C201	103	302	1C301	501 104	351 451	301 701 702	401





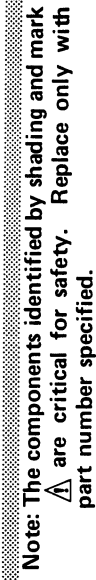


- Note:**
- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics.
 - All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
 - Δ : internal component.
 - \square : B+ bus.
 - \square : panel designation.
 - \square : adjustment for repair.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken under detuned conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
 - $< >$: AM (MW, SW, LW)
 - no mark: FM
 - Voltage variations may be noted due to normal production tolerances.
 - Switch

Ref. No.	Switch	Position
S1	MUTING	OFF
S2	LW ANT	BUILT IN
S3-1 to S3-12	FUNCTION	FM
S4	POWER	OFF

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

(1)



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

- 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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
-----------------	-----------------	--------------------

Transistors

ICs

Diodes


COILS

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

TRANSFORMERS

CAPACITORS

C116	1-102-951-00	(A)	15p	
C117	1-108-804-00	(A)	0.01	mylar
C118	1-108-234-00	(A)	0.0047	mylar
C119-121	1-108-242-00	(A)	0.022	mylar
C122	1-108-244-00	(A)	0.033	mylar

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

Ref. No.	Part No.	Description		
C123	1-108-240-00	(A) 0.015	mylar	
C124	1-108-353-00	(A) 0.0027	mylar	
C125	1-102-966-00	(A) 43p		
C126	1-103-704-00	(A) 135p	polystyrol	
C127	1-102-941-00	(A) 4p		
C128	1-103-714-00	(A) 360p	polystyrol	
C130	1-103-738-00	(A) 0.0035	polystyrol	
C131	1-108-242-00	(A) 0.022	mylar	
C132, 133	1-102-947-00	(A) 10p		
C202, 203	1-108-242-00	(A) 0.022	mylar	
C204	1-108-812-00	(A) 0.047	mylar	
C205	1-101-006-00	(A) 0.047		
C206, 207	1-108-804-00	(A) 0.01	mylar	
C208	1-121-414-00	(A) 100	10V	elect
C209, 210	1-101-006-00	(A) 0.047		
C211	1-121-352-00	(A) 47	6.3V	elect
C213	1-121-395-00	(A) 4.7	50V	elect
C214, 215	1-101-006-00	(A) 0.047		
C216	1-131-405-00	(B) 0.33	16V	tantalum
C217	1-121-409-00	(A) 47	16V	elect
C218	1-101-006-00	(A) 0.047		
C219	1-121-391-00	(A) 1	50V	elect
C220	1-108-242-00	(A) 0.022	mylar	
C221	1-121-392-00	(A) 3.3	50V	elect
C222	1-108-804-00	(A) 0.01	mylar	
C223	1-108-242-00	(A) 0.022	mylar	
C224	1-108-804-00	(A) 0.01	mylar	
C225	1-131-209-21	(B) 0.1	16V	tantalum
C226	1-121-395-00	(A) 4.7	50V	elect
C227	1-102-973-00	(A) 100p		
C301, 351	1-108-354-00	(A) 0.0039	mylar	
C302, 352	1-131-209-21	(B) 0.1	16V	tantalum
C303, 353	1-108-798-00	(A) 0.0033	mylar	
C304, 354	1-108-802-00	(A) 0.0068	mylar	
C305	1-108-812-00	(A) 0.047	mylar	
C306	1-103-717-00	(A) 470p	polystyrol	
C307	1-131-213-21	(B) 0.47	16V	tantalum
C308	1-131-211-21	(B) 0.22	16V	tantalum
C309	1-131-217-21	(B) 2.2	16V	tantalum
C310	1-121-395-00	(A) 4.7	50V	elect

Ref. No.	Part No.	Description		
C311	1-121-421-00	220	16V	elect
C312	1-108-242-00	(A) 0.022		mylar
C401, 451	1-121-726-00	(A) 0.47	50V	elect
C402, 452	1-101-884-00	(A) 56p		
C403, 453	1-121-395-00	(A) 4.7	50V	elect
C501	1-121-521-00	(B) 330	16V	elect
C502	(A) 1-121-657-00	(B) 1000	25V	elect
C503, 504	(A) 1-108-804-00	(A) 0.01		mylar
C601	1-108-242-00	(A) 0.022		mylar
CT103, 104	1-141-221-00	(A) Trimmer		
CT105, 106	1-141-222-00	(B) Trimmer		
CT107	1-141-221-00	(A) Trimmer		
CT108	1-141-222-00	(B) Trimmer		
CV101-104	1-151-349-00	(I) Tuning		

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on page 21 for their part numbers.

RT301 1-226-236-00 (A) 10k (B), adjustable; 19kHz

SWITCHES

S1 1-552-635-00 (C) Lever-slide, MUTING
S2 1-552-619-00 (B) Slide, LW ANT
S3 1-552-621-00 (C) Rotary-slide, FUNCTION
S4 (A) 1-552-531-00 (C) Pushbutton, POWER

MISCELLANEOUS

CF201, 202 1-527-338-00 (B) Filter, ceramic
CNJ601 1-536-566-00 (C) Terminal Strip, ANTENNA
CP101 1-231-436-00 (C) Bandpass Filter
ME601 1-520-402-00 (G) Meter, SIGNAL
PL601-603 1-518-349-00 (B) Lamp, 8V 300mA; dial

1-551-294-00 (D) Cord, with phono plug

(A) 1-534-777-00 (D) Cord, power (UK model)

(A) 1-534-817-XX (D) Cord, power (AEP model)

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
1-501-161-00	(C) Antenna, feeder
3-701-630-00	(A) Bag, plastic (for instruction manual)
4-891-037-00	(B) Bag, plastic (for set)
4-892-219-00	(A) Cushion
4-892-229-00	(B) Sheet, protection
4-892-330-00	(D) Carton
4-892-399-00	(C) Manual, instruction

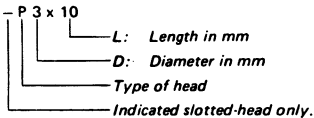
Note: The components identified by shading and mark (A) are critical for safety. Replace only with part number specified.

1/4 WATT CARBON RESISTORS ①

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
1.1	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
1.2	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
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00
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
4.7	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
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
5.6	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

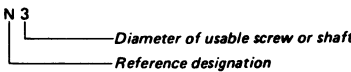
HARDWARE NOMENCLATURE

Screw:



Unless otherwise indicated, it means cross-recessed head (Phillips type).

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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