

ST-606/606M

SERVICE MANUAL

UK Model

ST-606

AEP Model

ST606M



- ST-606 is the FM STEREO/
FM-AM TUNER in FH-606.
- ST-606M is the FM STEREO/
FM-AM TUNER in MHC-1000.

SPECIFICATIONS

System FM stereo, FM/AM superheterodyne tuner
Quartz-locked PLL digital synthesizer system

General
Dimensions

ST-606:

Approx. 220 × 55 × 240 mm (w/h/d)
(8³/₄ × 2¹/₄ × 9¹/₂ inches)

ST-606M:

Approx. 245 × 55 × 240 mm (w/h/d)
(9³/₄ × 2¹/₄ × 9¹/₂ inches)

incl. projecting parts and controls
Approx. 1.0 kg (2 lb 4 oz) net

FM tuner section

Tuning range 87.5 to 108 MHz

Antenna (ST-606) Telescopic antenna

Antenna terminals

75 ohms unbalanced

Intermediate frequency

10.7 MHz

Usable sensitivity 2.3 μ V (S/N = 30 dB/75 ohms)

Weight

MW/LW tuner section

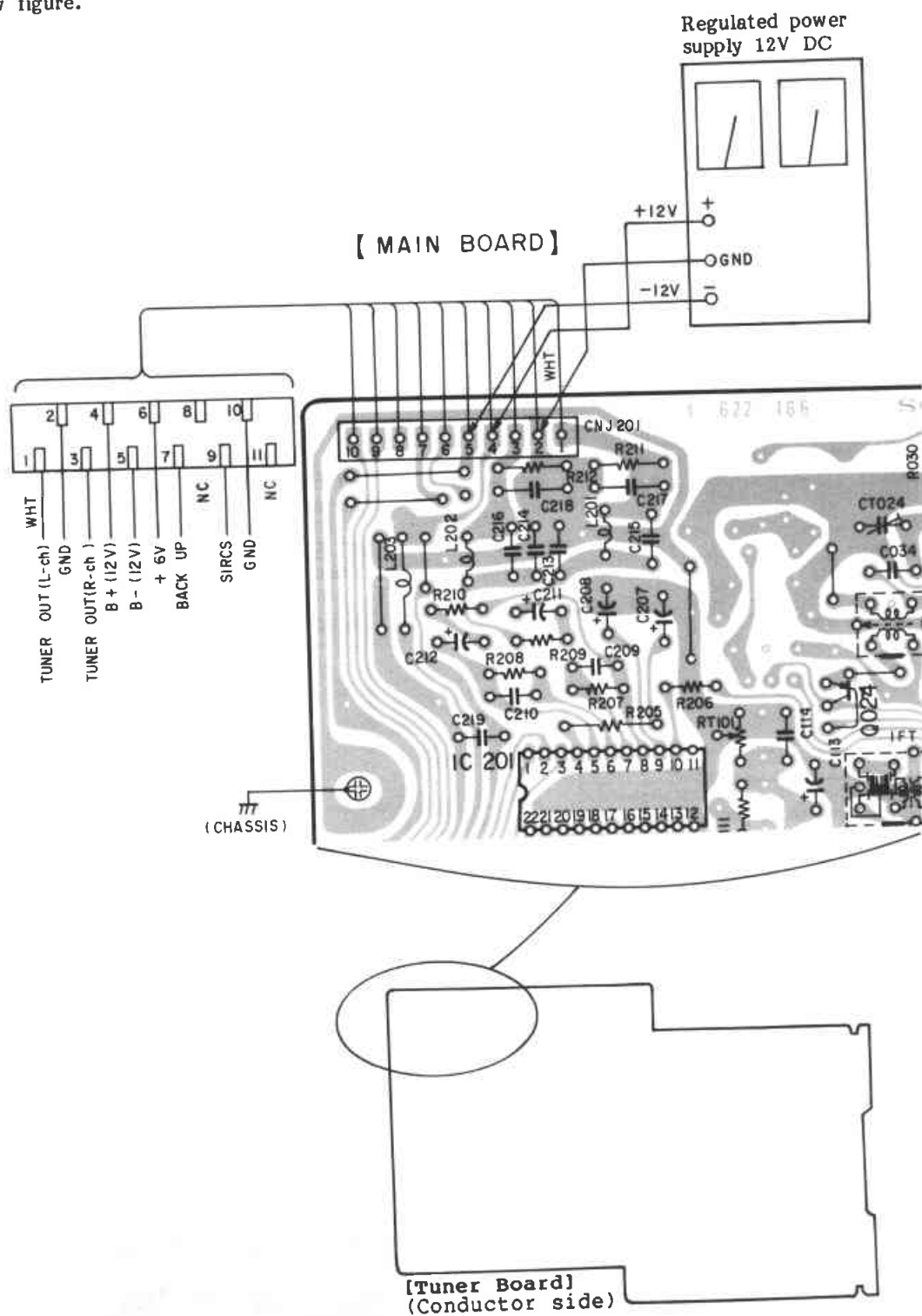
		MW	LW
Tuning range		531 – 1602 kHz (except Italian model) 522 – 1611 kHz (for the Italian model)	153 – 281 kHz (except Italian model) 144 – 288 kHz (for the Italian model)
Antenna		Built-in ferrite bar antenna External antenna terminal	
Usable sensitivity	Built-in ferrite bar antenna	250 μ V/m (999 kHz)	500 μ V/m (230 kHz)
	External antenna	100 μ V (999 kHz)	150 μ V (230 kHz)

FM STEREO/FM-AM TUNER
SONY®

REPAIRING PRECAUTION
[To apply B+ voltage]

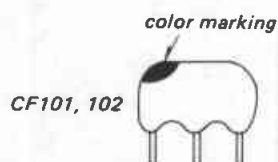
The power of this unit is fed from other unit.

When the unit operates individually, connect the regulated power supply to the point as shown in the below figure.



Note on Ceramic Filter (CF101, 102) Replacement and Diode D314, 315 Connection.

This set employs two ceramic filters (CF101, 102) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by diodes (D314, 315) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



○: connect
X: not connect

Ceramic filter		D314, 315 connection		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	※A (D314)	※B (D315)	
White	10.750	○	X	10.750
Red	10.700	X	X	10.700
Black	10.650	X	○	10.650

FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i.e., of same color coding should be used for CF101 and CF102.

When replacing the ceramic filters, perform the FM Discriminator Adjustment.

WARNING !!

ADVARSEL!

Lithiumbatteri – Eksplosionsfare
Udskiftning må kun foretages
af en sagkyndig, og som
beskrevet i servicemanualen.

LITHIUM BATTERY

SHOULD ONLY BE CHANGED BY TECHNICAL PERSONNEL. THERE IS A RISK FOR EXPLOSION AT A WRONG HANDLING.

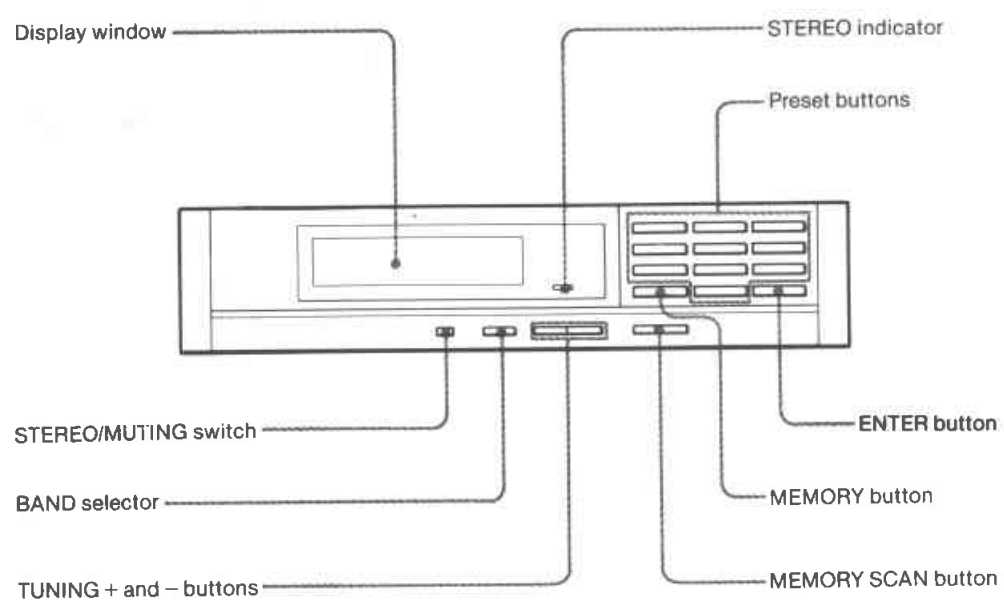
“Batteriet må kun udskiftes med et batteri af samme fabrikat og type”.

Because of the risk for explosion the battery must be replaced with the same type and manufacture.

MODEL IDENTIFICATION

ST-606
ST-606M



PARTS IDENTIFICATION

SECTION 1

ELECTRICAL ADJUSTMENTS

FM SECTION

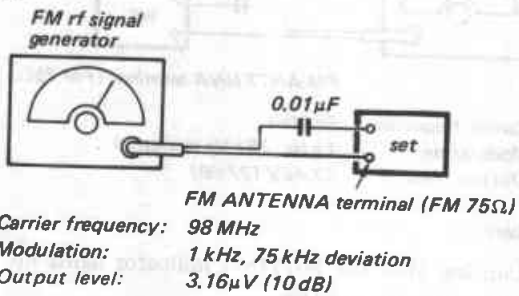
Setting:

BAND selector switch: FM

Note: FM discriminator alignment should be made after FM tracking adjustment.

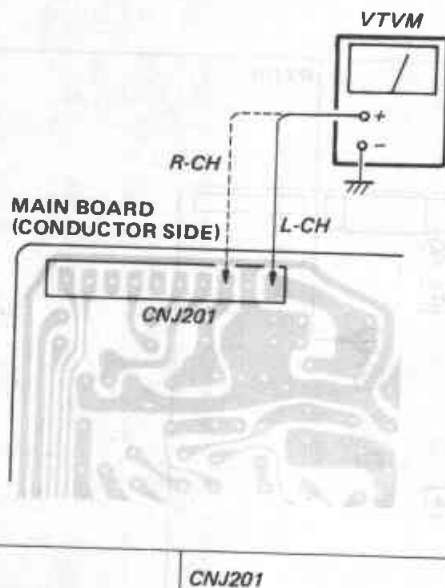
FM Tracking Adjustment

Setting:



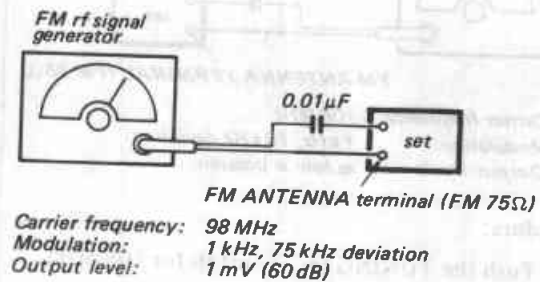
Procedure:

1. Push TUNING (+, -) button for 98 MHz.
2. Approach L002 and L003 not to contact each other.
3. Adjust L001 and L003, and repeat the adjustment 2 - 3 times for maximum VTVM reading.

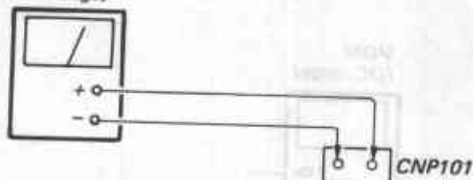


FM Discriminator Alignment (NULL Check)

Setting:

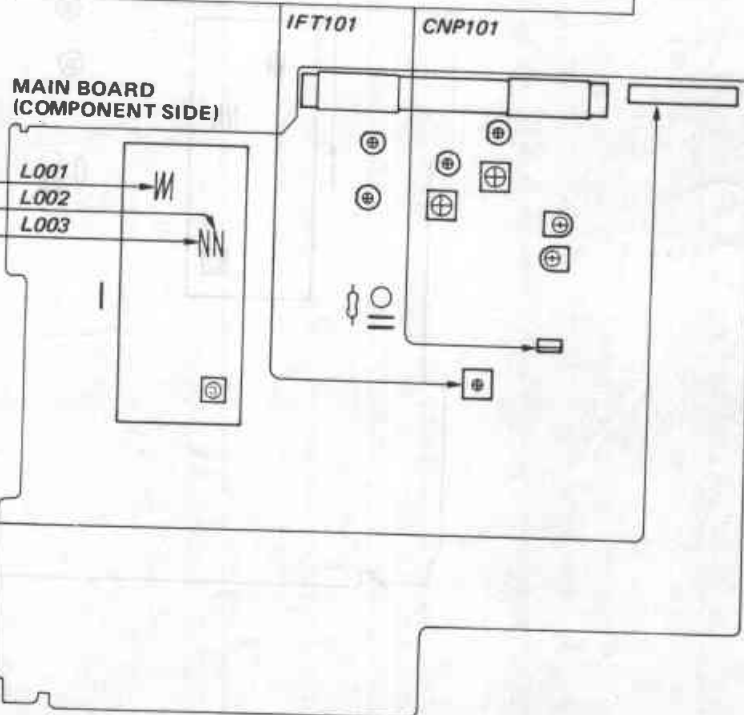


VOM
(DC range)



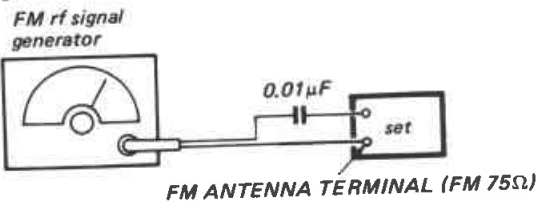
Procedure:

1. Push the TUNING (+, -) button for 98 MHz.
2. Adjust IFT101 for 0 V reading on the VOM.



FM OSC Voltage Adjustment

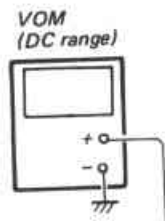
Setting:



Carrier frequency: 108 MHz
Modulation: 1 kHz, 75 kHz deviation
Output level: as low as possible

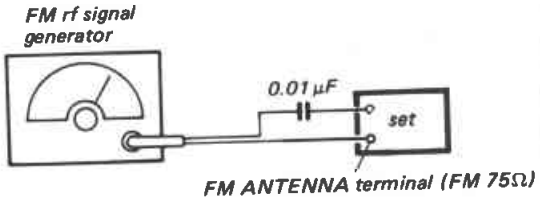
Procedure:

1. Push the TUNING (+, -) button for 108 MHz.
2. Adjust L005 for 8 – 8.5 V reading on the VOM.



FM TUNED Indication Lighting Level Adjustment

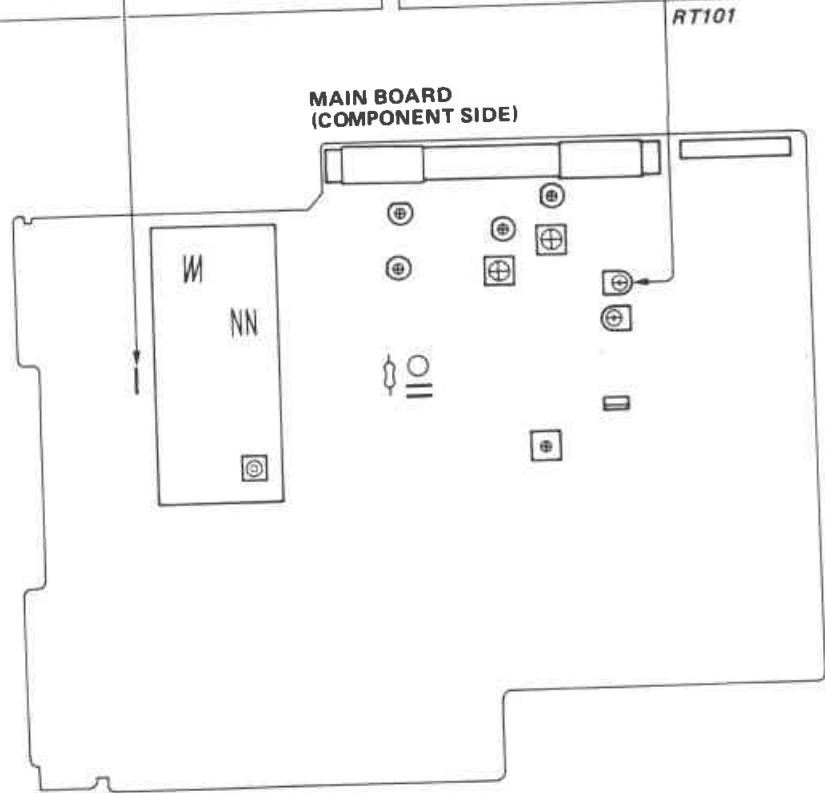
Setting:



Carrier frequency: 98 MHz
Modulation: 1 kHz, 75 kHz deviation
Output level: 22.4 μ V (27 dB)

Procedure:

1. Confirm that the MUTING indicator lights up on the display window.
2. Tune the set to 98 MHz.
3. Adjust RT101 so that the TUNED indicator goes on.

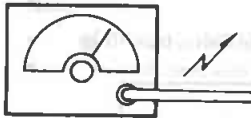


AM SECTION

Setting:

BAND selector switch: MW or LW

AM rf signal generator



30% amplitude modulation by 400 Hz signal

Put the lead-wire antenna close to the set.

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

Perform after LW TRACKING ADJUSTMENT.

MW TRACKING ADJUSTMENT

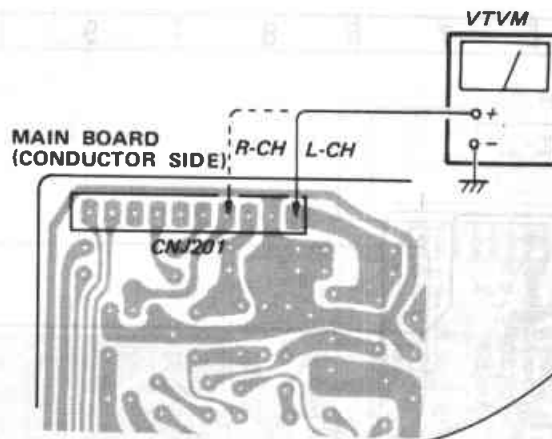
Adjust for a maximum reading on VTVM.

603 kHz	L022
1,404 kHz	CT021

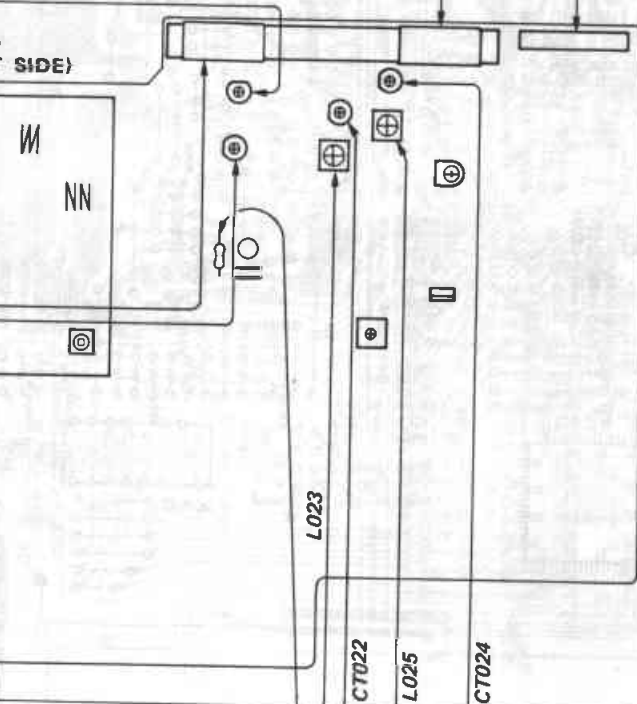
LW TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

162 kHz	L022
270 kHz	CT023



MAIN BOARD (COMPONENT SIDE)

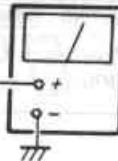


MW/LW OSC Voltage Adjustment

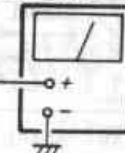
Procedure:

- Set BAND selector switch to MW.
- Push TUNING (+, -) button for 522 kHz. Adjust L023 for 1 - 1.1 V VOM ② reading.
- Push the button for 1,611 kHz. Adjust CT022 for 8 - 8.5 V VOM ② reading.
- Set BAND selector switch to LW.
- Push TUNING (+, -) button for 144 kHz. Adjust L025 for 1 - 1.1 V VOM ① reading.
- Push the button for 288 kHz. Adjust CT024 for 8 - 8.5 V VOM ① reading.

VOM ② : MW (DC range)



VOM ① : LW (DC range)



MEMO



SECTION 2

DIAGRAMS

2-1. PRINTED WIRING BOARDS

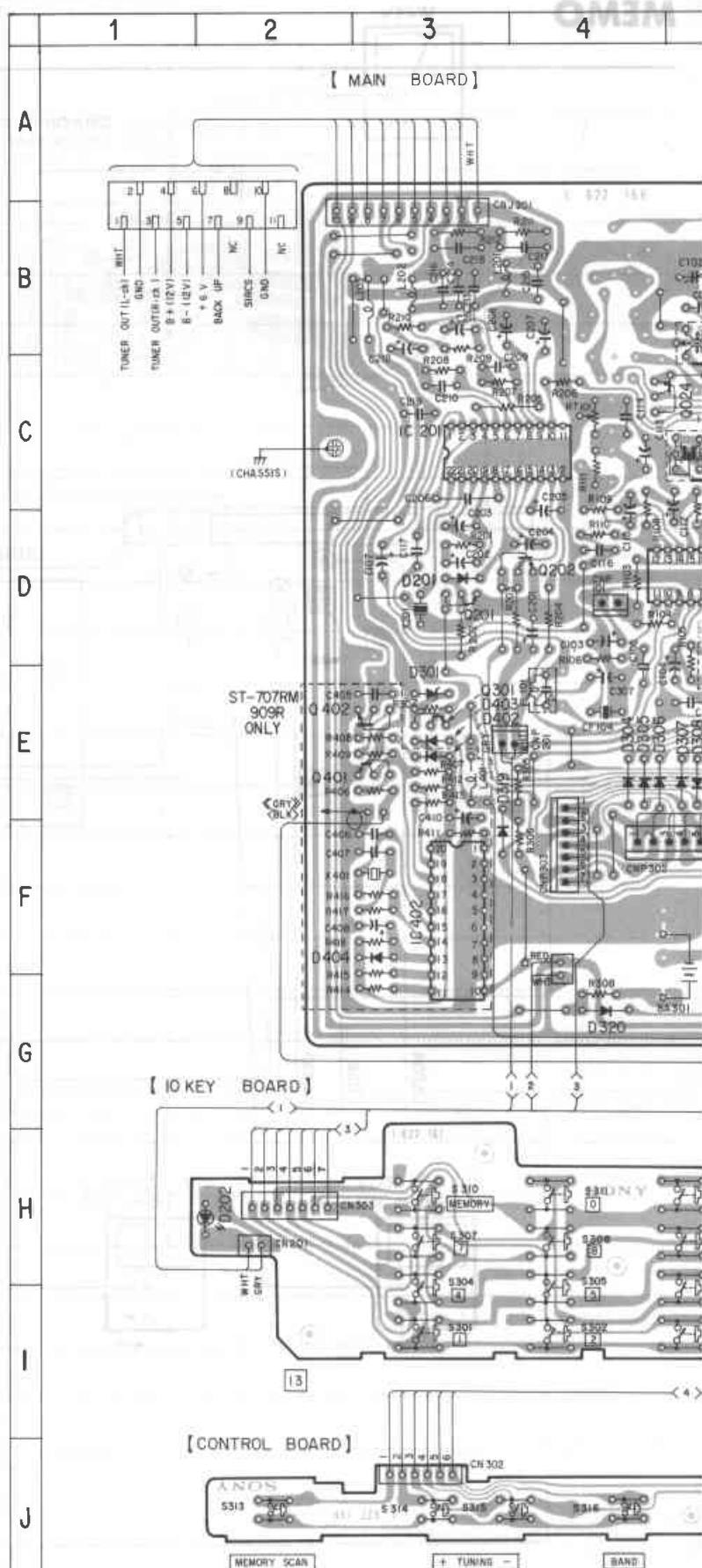
. See page 14 for Semiconductor Lead Layouts.

Note:

- ■ : parts mounted on the conductor side.
- □ : indicates side identified with part number.

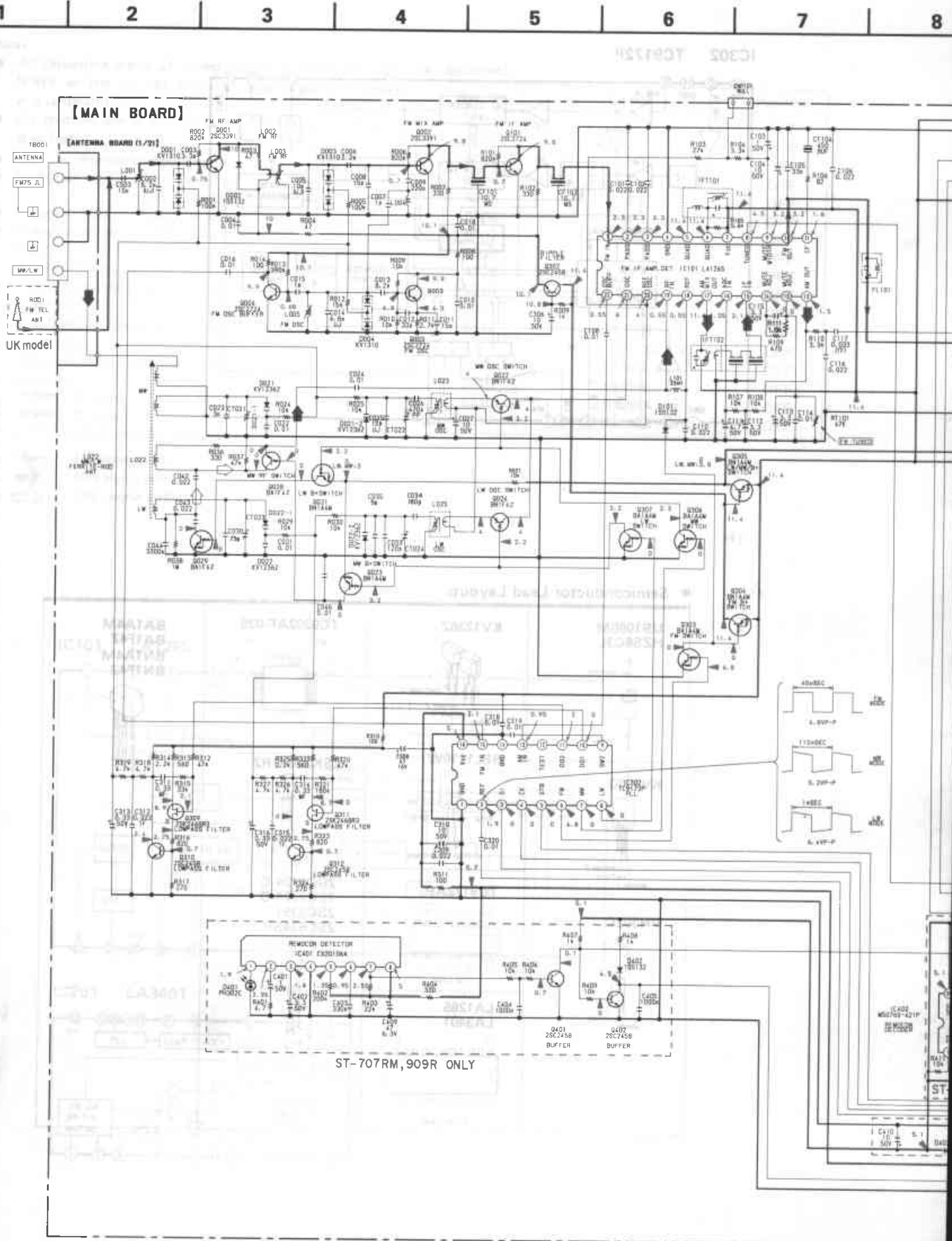
. Semiconductor Location

Ref. No.		Ref. No.	
IC101	D-4	D004	D-7
IC201	C-3	D021-1	B-5
IC301	F-6	D021-2	B-5
IC302	F-8	D022-1	C-6
IC401	G-9	D022-2	B-5
IC402	F-3	D101	D-5
Q001	C-7	D201	D-3
Q002	D-8	D202	H-1
Q003	D-8	D301	E-3
Q004	E-8	D302	F-5
Q021	D-7	D303	F-5
Q022	C-5	D304	E-4
Q023	D-7	D305	E-4
Q024	C-4	D306	E-4
Q028	B-5	D307	E-4
Q029	B-6	D308	E-4
Q101	D-6	D309	E-4
Q201	D-3	D310	E-5
Q202	D-3	D311	E-5
Q301	E-3	D312	E-5
Q302	F-7	D314	E-6
Q303	F-7	D315	E-6
Q304	F-7	D316	E-5
Q305	F-7	D317	E-6
Q306	F-7	D319	F-3
Q307	F-7	D320	G-4
Q309	F-9	D401	H-9
Q310	F-9	D402	E-3
Q311	E-8	D403	E-3
Q312	E-8	D404	F-2
Q401	E-2		
Q402	E-2		
D001	C-8		
D002	C-7		
D003	C-8		



2-2. SCHEMATIC DIAGRAM

. See page 13 for note.



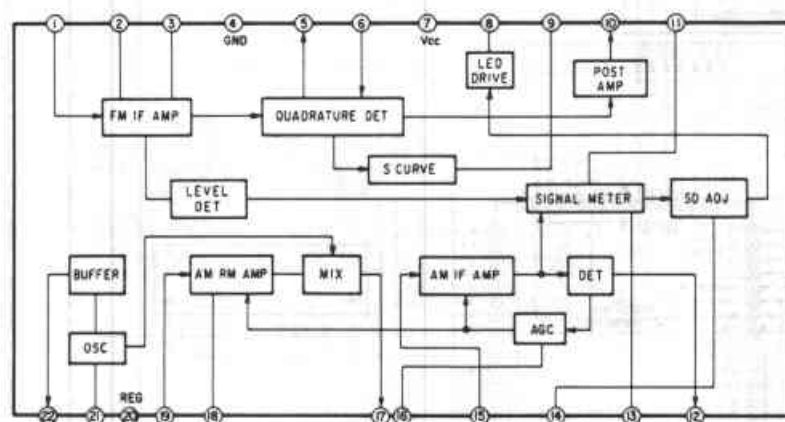
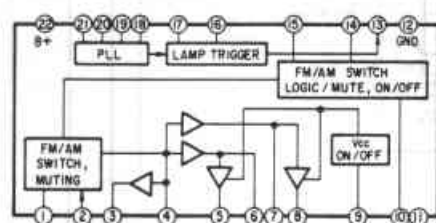


Note:

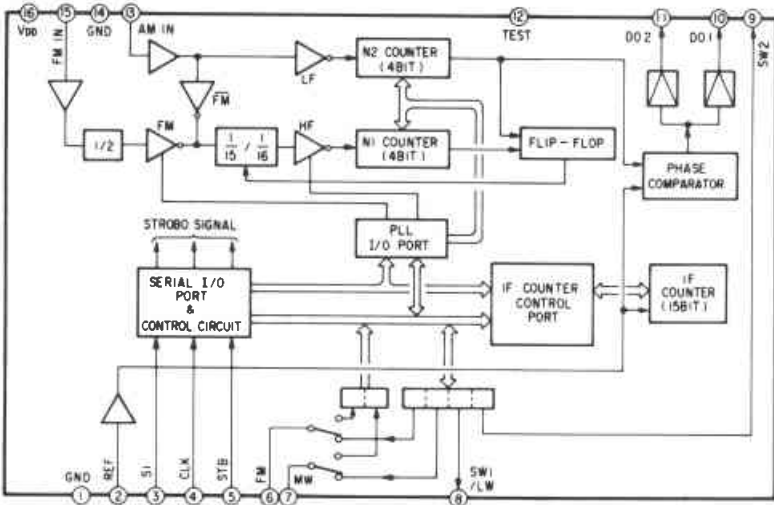
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- *A-B: See page 3 "Note on ceramic filter replacement and diode connection".
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under detuned conditions with a VOM (50k Ω /V).
No Mark: FM Mode
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in no-signal mode by using oscilloscope.
Voltage variations may be noted due to normal production tolerances.
-  : B+ bus.
-  : B- bus.
-  : adjustment for repair.
-  : FM signal path.
-  : MW signal path.
-  : LW signal path.

Switches:

Ref. No.	Switch	Position
S301	1	OFF
S302	2	OFF
S303	3	OFF
S304	4	OFF
S305	5	OFF
S306	6	OFF
S307	7	OFF
S308	8	OFF
S309	9	OFF
S310	MEMORY	OFF
S311	0	OFF
S312	ENTER	OFF
S313	MEMORY SCAN	OFF
S314	TUNING +	OFF
S315	TUNING -	OFF
S316	BAND	OFF
S317	STEREO MUTING	OFF

IC101 LA1265**IC201 LA3401**

IC302 TC9172P



● Semiconductor Lead Layouts

US1060M HZS6C3L	KV1236Z	TC9302AF-039	BA1A4M BA1F4Z BN1A4M BN1F4Z
KV1310	SEL1210W	2SK246-GR2	
PH302C	TC9172AP	2SC2724-C 2SC2724-D 2SC3391 2SC634SP	
	LA1265 LA3401		

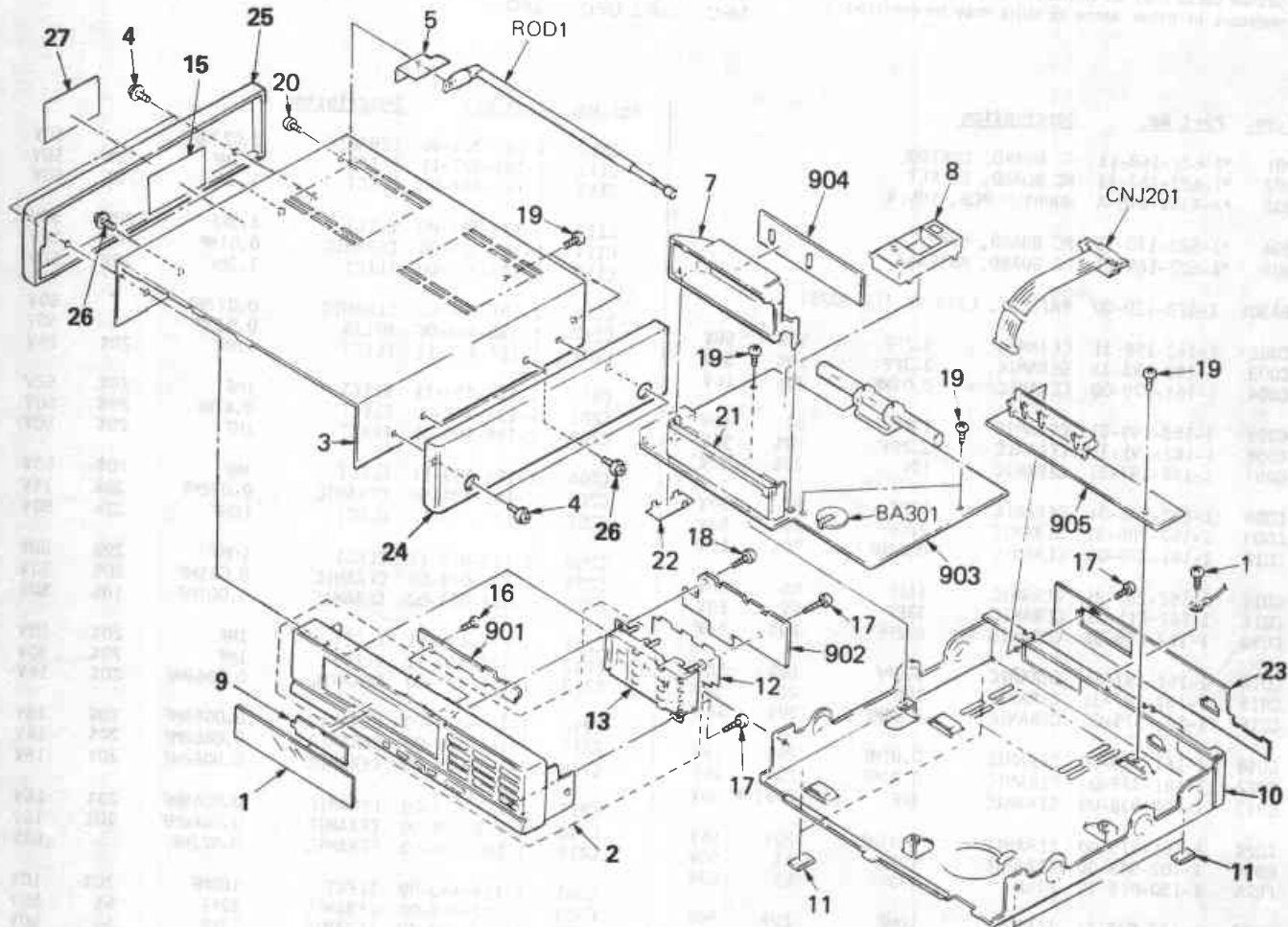
SECTION 3 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts Color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remarks
1	4-920-874-01	PLATE (ST), ORNAMENTAL	
2	X-4919-644-1	PANEL ASSY, FRONT	13
3	4-920-137-01	CASE	
4	4-886-821-51	(ST-606M)...SCREW (CASE) (M3X14)	
5	*4-919-611-01	(UK).....BRACKET, ANT	
6	*4-909-705-01	PLATE, SHIELD	
7	*4-917-275-01	HOUSE, LAMP	
8	*4-874-704-01	CASE, SHIELD	
9	4-920-872-01	PLATE (ST), INDICATION	
10	*4-919-617-01	CHASSIS	
11	4-919-608-01	FOOT	
12	*4-919-607-01	SPACER	
13	*4-919-614-01	RETAINER, BUTTON	
15	*4-922-715-01	(UK)...LABEL, MODEL NUMBER	
16	7-685-133-19	SCREW +P 2.6X6 TYPE2 SLIT	
17	7-685-647-79	(UK)...SCREW +BVTP 3X10 TYPE2 N-S	
18	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
19	7-682-147-01	SCREW +BVTT 3X6 (S)	

No.	Part No.	Description	Remarks
20	7-682-547-09	(UK)...SCREW +B 3X6	
21	*4-909-633-01	ILLUMINATOR	
22	*4-920-149-01	PLATE (A), SHIELD	
23	*4-919-613-71	(AEP)...COVER, REAR	
	*4-919-613-11	(UK)....COVER, REAR	
24	4-922-759-01	(ST-606M)...PLATE (A-RIGHT), SIDE	
25	4-922-760-01	(ST-606M)...PLATE (A-LEFT), SIDE	
26	3-704-366-01	(ST-606)...SCREW (CASE) (M3X8)	
27	*4-922-754-01	(AEP).....LABEL, MODEL NUMBER	
901	*1-622-168-11	PC BOARD, CONTROL	
902	*1-622-167-11	PC BOARD, 10 KEY	
903	*A-4351-648-A	MOUNTED PCB, TUNER	
904	*1-622-170-11	PC BOARD, LAMP	
905	*1-622-169-11	PC BOARD, ANTENNA	
BA301	1-528-120-00	BATTERY, LITHIUM (CR-2025)	
CNJ201	1-559-817-11	CORD (WITH CONNECTOR) 10P	
ROD1	1-501-270-00	(UK)...ANTENNA, TELESCOPIC	

SECTION 4

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
 UA...: μ A..., UPA...: μ PA...,
 UPC...: μ PC, UPD...: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
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901	*1-622-168-11	PC BOARD, CONTROL
902	*1-622-167-11	PC BOARD, 10 KEY
903	*A-4351-648-A	MOUNTED PCB, TUNER

904	*1-622-170-11	PC BOARD, LAMP
905	*1-622-169-11	PC BOARD, ANTENNA

BA301	1-528-120-00	BATTERY, LITHIUM (CR-2025)
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C002	1-162-198-31	CERAMIC	8.2PF	10%	50V
C003	1-162-193-31	CERAMIC	3.3PF	10%	50V
C004	1-161-379-00	CERAMIC	0.01MF	20%	16V

C005	1-162-199-31	CERAMIC	10PF	5%	50V
C006	1-162-191-31	CERAMIC	2.2PF	10%	50V
C007	1-162-187-31	CERAMIC	1PF	20%	50V

C008	1-162-203-31	CERAMIC	15PF	5%	50V
C009	1-162-286-31	CERAMIC	220PF	10%	50V
C010	1-161-379-00	CERAMIC	0.01MF	20%	16V

C011	1-162-203-31	CERAMIC	15PF	5%	50V
C012	1-162-211-31	CERAMIC	33PF	5%	50V
C013	1-162-198-31	CERAMIC	8.2PF	10%	50V

C014	1-162-197-31	CERAMIC	6.8PF	10%	50V
C015	1-162-187-31	CERAMIC	1PF	20%	50V
C016	1-161-379-00	CERAMIC	0.01MF	20%	16V

C018	1-161-379-00	CERAMIC	0.01MF	20%	16V
C022	1-161-379-00	CERAMIC	0.01MF	20%	16V
C023	1-102-936-00	CERAMIC	3PF	0.25PF	50V

C024	1-161-379-00	CERAMIC	0.01MF	20%	16V
C025	1-102-949-00	CERAMIC	12PF	5%	50V
C026	1-130-014-00	FILM	470PF	5%	50V

C027	1-123-875-11	ELECT	10MF	20%	50V
C030	1-101-890-00	CERAMIC	75PF	5%	50V
C031	1-161-379-00	CERAMIC	0.01MF	20%	16V

C033	1-102-816-00	CERAMIC	120PF	5%	50V
C034	1-130-047-00	FILM	180PF	5%	50V
C035	1-102-942-00	CERAMIC	5PF	0.5PF	50V

C042	1-161-494-00	CERAMIC	0.022MF	30%	25V
C043	1-101-005-00	CERAMIC	0.022MF		50V
C044	1-161-327-00	CERAMIC	0.0033MF	20%	16V

C046	1-161-379-00	CERAMIC	0.01MF	20%	16V
C101	1-101-005-00	CERAMIC	0.022MF		50V
C102	1-101-005-00	CERAMIC	0.022MF		50V

C103	1-124-499-11	ELECT	1MF	20%	50V
C104	1-123-875-11	ELECT	10MF	20%	50V
C105	1-162-211-31	CERAMIC	33PF	5%	50V

C106	1-101-005-00	CERAMIC	0.022MF		50V
C107	1-123-875-11	ELECT	10MF	20%	50V
C108	1-161-379-00	CERAMIC	0.01MF	20%	16V

Ref.No.	Part No.	Description
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C110	1-101-005-00	CERAMIC	0.022MF		50V
C111	1-124-927-11	ELECT	4.7MF	20%	50V
C112	1-123-382-00	ELECT	3.3MF	20%	50V

C113	1-123-382-00	ELECT	3.3MF	20%	50V
C114	1-161-379-00	CERAMIC	0.01MF	20%	16V
C115	1-123-382-00	ELECT	3.3MF	20%	50V

C116	1-101-005-00	CERAMIC	0.022MF		50V
C117	1-130-489-00	MYLAR	0.033MF	5%	50V
C201	1-124-477-11	ELECT	47MF	20%	16V

C202	1-124-499-11	ELECT	1MF	20%	50V
C203	1-124-902-00	ELECT	0.47MF	20%	50V
C204	1-124-499-11	ELECT	1MF	20%	50V

C205	1-124-499-11	ELECT	1MF	20%	50V
C206	1-161-494-00	CERAMIC	0.022MF	30%	25V
C207	1-123-875-11	ELECT	10MF	20%	50V

C208	1-123-875-11	ELECT	10MF	20%	50V
C209	1-102-074-00	CERAMIC	0.001MF	10%	50V
C210	1-102-074-00	CERAMIC	0.001MF	10%	50V

C211	1-124-499-11	ELECT	1MF	20%	50V
C212	1-124-499-11	ELECT	1MF	20%	50V
C213	1-161-329-00	CERAMIC	0.0068MF	20%	16V

C214	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C215	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C216	1-161-329-00	CERAMIC	0.0068MF	20%	16V

C217	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C218	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C219	1-101-005-00	CERAMIC	0.022MF		50V

C301	1-124-443-00	ELECT	100MF	20%	10V
C303	1-102-959-00	CERAMIC	22PF	5%	50V
C304	1-102-959-00	CERAMIC	22PF	5%	50V

C305	1-124-499-11	ELECT	1MF	20%	50V
C306	1-123-875-11	ELECT	10MF	20%	50V
C307	1-124-463-00	ELECT	0.1MF	20%	50V

C308	1-124-477-11	ELECT	47MF	20%	16V
C309	1-101-005-00	CERAMIC	0.022MF		50V
C310	1-123-875-11	ELECT	10MF	20%	50V

C311	1-136-171-00	FILM	0.33MF	5%	50V
C312	1-130-487-00	MYLAR	0.022MF	5%	50V
C313	1-124-252-00	ELECT	0.33MF	20%	50V

C314	1-136-171-00	FILM	0.33MF	5%	50V
C315	1-130-487-00	MYLAR	0.022MF	5%	50V
C316	1-124-252-00	ELECT	0.33MF	20%	50V

C318	1-161-379-00	CERAMIC	0.01MF	20%	16V
C319	1-161-379-00	CERAMIC	0.01MF	20%	16V
C320	1-161-379-00	CERAMIC	0.01MF	20%	16V

C503	1-162-199-31	CERAMIC	10PF	5%	50V
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Ref.No.	Part No.	Description
CF101	1-567-389-11	FILTER, CERAMIC
CF102	1-567-389-11	FILTER, CERAMIC
CF104	1-527-981-00	FILTER, CERAMIC
CNJ201	1-559-817-11	CORD (WITH CONNECTOR)
CNP001	*1-560-060-00	(UK)...PIN, CONNECTOR 2P
CNP002	*1-564-337-00	PIN, CONNECTOR 3P
CNP101	*1-560-060-00	PIN, CONNECTOR 2P
CNP201	*1-564-336-00	PIN, CONNECTOR 2P
CNP301	*1-560-063-00	PIN, CONNECTOR 5P
CNP302	*1-560-064-00	PIN, CONNECTOR 6P
CNP303	*1-564-341-11	PIN, CONNECTOR 7P
CT021	1-141-227-00	CAP, CERAMIC TRIMMER
CT022	1-141-227-00	CAP, CERAMIC TRIMMER
CT023	1-141-227-00	CAP, CERAMIC TRIMMER
CT024	1-141-227-00	CAP, CERAMIC TRIMMER
D001	8-719-918-45	DIODE KV1310
D002	8-719-000-26	DIODE US1060M
D003	8-719-918-45	DIODE KV1310
D004	8-719-918-45	DIODE KV1310
D021	8-719-923-64	DIODE KV1236Z
D022	8-719-923-64	DIODE KV1236Z
D101	8-719-000-26	DIODE US1060M
D201	8-719-000-26	DIODE US1060M
D202	8-719-303-13	DIODE SEL1210W
D301	8-719-933-41	DIODE HZS6C3L
D302	8-719-000-26	DIODE US1060M
D303	8-719-000-26	DIODE US1060M
D304	8-719-000-26	DIODE US1060M
D305	8-719-000-26	DIODE US1060M
D306	8-719-000-26	DIODE US1060M
D307	8-719-000-26	DIODE US1060M
D308	8-719-000-26	DIODE US1060M
D309	8-719-000-26	DIODE US1060M
D310	8-719-000-26	DIODE US1060M
D311	8-719-000-26	DIODE US1060M
D312	8-719-000-26	DIODE US1060M
D314	8-719-000-26	DIODE US1060M
D315	8-719-000-26	DIODE US1060M
D316	8-719-000-26	DIODE US1060M
D317	8-719-000-26	DIODE US1060M
D319	8-719-000-26	DIODE US1060M
D320	8-719-000-26	DIODE US1060M
FL101	1-235-126-00	ENCAPSULATED COMPONENT
IC101	8-759-801-81	IC LA1265
IC201	8-759-801-80	IC LA3401
IC301	8-759-230-50	IC TC9302AF-039
IC302	8-759-230-16	IC TC9172AP
IFT101	1-404-659-11	COIL, DISCRIMINATOR
IFT102	1-404-713-11	TRANSFORMER, IF
L001	*1-422-336-11	COIL, AIR-CORE
L002	*1-422-040-00	COIL, AIR-CORE
L003	*1-422-081-00	COIL (WITH CORE)

Ref.No.	Part No.	Description
L004	*1-422-039-00	COIL, AIR-CORE
L005	1-459-396-00	COIL (WITH CORE)
L022	1-402-151-11	ANTENNA, FERRITE-ROD (LW/MW)
L023	1-406-089-11	COIL (OSC)
L025	1-406-207-11	COIL, LW (OSC)
L101	1-408-930-00	INDUCTOR 33MMH
L201	1-408-924-00	INDUCTOR 10MMH
L202	1-408-924-00	INDUCTOR 10MMH
L203	1-410-601-21	INDUCTOR 100UH
LCD1	1-807-453-41	DISPLAY PANEL, LIQUID CRYSTAL
PL001	1-518-527-51	LAMP, PILOT
PL002	1-518-527-51	LAMP, PILOT
Q001	8-729-304-38	TRANSISTOR 2SC3391
Q002	8-729-304-38	TRANSISTOR 2SC3391
Q003	8-729-672-42	TRANSISTOR 2SC2724-C
Q004	8-729-672-42	TRANSISTOR 2SC2724-C
Q021	8-729-115-15	TRANSISTOR BN1A4M
Q022	8-729-115-33	TRANSISTOR BN1F4Z
Q023	8-729-115-15	TRANSISTOR BN1A4M
Q024	8-729-115-33	TRANSISTOR BN1F4Z
Q028	8-729-115-93	TRANSISTOR BA1F4Z
Q029	8-729-115-79	TRANSISTOR BA1A4M
Q101	8-729-672-43	TRANSISTOR 2SC2724-D
Q201	8-729-115-79	TRANSISTOR BA1A4M
Q202	8-729-115-79	TRANSISTOR BA1A4M
Q301	8-729-600-27	TRANSISTOR 2SC634SP
Q302	8-729-600-27	TRANSISTOR 2SC634SP
Q303	8-729-115-79	TRANSISTOR BA1A4M
Q304	8-729-115-15	TRANSISTOR BN1A4M
Q305	8-729-115-15	TRANSISTOR BN1A4M
Q306	8-729-115-79	TRANSISTOR BA1A4M
Q307	8-729-115-79	TRANSISTOR BA1A4M
Q309	8-729-201-56	TRANSISTOR 2SK246GR2
Q310	8-729-600-27	TRANSISTOR 2SC634SP
Q311	8-729-201-56	TRANSISTOR 2SK246GR2
Q312	8-729-600-27	TRANSISTOR 2SC634SP
R001	1-249-441-11	CARBON 100K 5% 1/4W
R002	1-215-491-00	CARBON 820K 5% 1/4W
R003	1-249-401-11	CARBON 47 5% 1/4W
R004	1-249-401-11	CARBON 47 5% 1/4W
R005	1-249-441-11	CARBON 100K 5% 1/4W
R006	1-215-491-00	CARBON 820K 5% 1/4W
R007	1-249-411-11	CARBON 330 5% 1/4W
R008	1-249-405-11	CARBON 100 5% 1/4W
R009	1-249-429-11	CARBON 10K 5% 1/4W
R010	1-249-429-11	CARBON 10K 5% 1/4W
R011	1-249-422-11	CARBON 2.7K 5% 1/4W
R012	1-249-431-11	CARBON 15K 5% 1/4W
R013	1-215-483-00	CARBON 390K 5% 1/4W
R014	1-249-405-11	CARBON 100 5% 1/4W
R021	1-249-429-11	CARBON 10K 5% 1/4W

Ref.No.	Part No.	Description			
R024	1-249-429-11	CARBON	10K	5%	1/4W
R025	1-249-429-11	CARBON	10K	5%	1/4W
R029	1-249-429-11	CARBON	10K	5%	1/4W
R030	1-249-429-11	CARBON	10K	5%	1/4W
R036	1-249-411-11	CARBON	330	5%	1/4W
R037	1-249-437-11	CARBON	47K	5%	1/4W
R038	1-247-903-00	CARBON	1M	5%	1/4W
R101	1-215-491-00	CARBON	820K	5%	1/4W
R102	1-249-411-11	CARBON	330	5%	1/4W
R103	1-249-434-11	CARBON	27K	5%	1/4W
R104	1-249-423-11	CARBON	3.3K	5%	1/4W
R105	1-249-426-11	CARBON	5.6K	5%	1/4W
R106	1-249-404-00	CARBON	82	5%	1/4W
R107	1-249-429-11	CARBON	10K	5%	1/4W
R108	1-249-429-11	CARBON	10K	5%	1/4W
R109	1-249-413-11	CARBON	470	5%	1/4W
R110	1-249-423-11	CARBON	3.3K	5%	1/4W
R111	1-249-420-11	CARBON	1.8K	5%	1/4W
R201	1-249-423-11	CARBON	3.3K	5%	1/4W
R202	1-249-437-11	CARBON	47K	5%	1/4W
R203	1-249-437-11	CARBON	47K	5%	1/4W
R204	1-249-417-11	CARBON	1K	5%	1/4W
R205	1-249-437-11	CARBON	47K	5%	1/4W
R206	1-249-437-11	CARBON	47K	5%	1/4W
R207	1-249-437-11	CARBON	47K	5%	1/4W
R208	1-249-437-11	CARBON	47K	5%	1/4W
R209	1-249-419-11	CARBON	1.5K	5%	1/4W
R210	1-249-419-11	CARBON	1.5K	5%	1/4W
R211	1-249-441-11	CARBON	100K	5%	1/4W
R212	1-249-441-11	CARBON	100K	5%	1/4W
R302	1-249-419-11	CARBON	1.5K	5%	1/4W
R303	1-249-435-11	CARBON	33K	5%	1/4W
R304	1-249-441-11	CARBON	100K	5%	1/4W
R305	1-249-435-11	CARBON	33K	5%	1/4W
R306	1-249-435-11	CARBON	33K	5%	1/4W
R307	1-249-423-11	CARBON	3.3K	5%	1/4W
R308	1-249-425-11	CARBON	4.7K	5%	1/4W
R309	1-249-417-11	CARBON	1K	5%	1/4W
R310	1-249-405-11	CARBON	100	5%	1/4W
R311	1-249-405-11	CARBON	100	5%	1/4W
R312	1-249-437-11	CARBON	47K	5%	1/4W
R313	1-249-414-11	CARBON	560	5%	1/4W
R314	1-249-421-11	CARBON	2.2K	5%	1/4W
R315	1-249-435-11	CARBON	33K	5%	1/4W
R316	1-249-416-11	CARBON	820	5%	1/4W
R317	1-249-410-11	CARBON	270	5%	1/4W
R318	1-249-425-11	CARBON	4.7K	5%	1/4W
R319	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref.No.	Part No.	Description			
R320	1-249-437-11	CARBON	47K	5%	1/4W
R321	1-247-885-00	CARBON	180K	5%	1/4W
R322	1-249-414-11	CARBON	560	5%	1/4W
R323	1-249-416-11	CARBON	820	5%	1/4W
R324	1-249-410-11	CARBON	270	5%	1/4W
R325	1-249-421-11	CARBON	2.2K	5%	1/4W
R326	1-249-425-11	CARBON	4.7K	5%	1/4W
R327	1-249-425-11	CARBON	4.7K	5%	1/4W
R401	1-249-389-11	CARBON	4.7	5%	1/4W
R402	1-215-476-00	CARBON	200K	5%	1/4W
R403	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-249-411-11	CARBON	330	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R406	1-249-429-11	CARBON	10K	5%	1/4W
R407	1-249-417-11	CARBON	1K	5%	1/4W
R408	1-249-417-11	CARBON	1K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R411	1-249-429-11	CARBON	10K	5%	1/4W
R412	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-249-429-11	CARBON	10K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-247-903-00	CARBON	1M	5%	1/4W
R417	1-249-423-11	CARBON	3.3K	5%	1/4W
R418	1-249-437-11	CARBON	47K	5%	1/4W
ROD1	1-501-270-00	(UK)...ANTENNA, TELESCOPIC			
TB001	*1-537-138-21	(AEP)...TERMINAL BOARD (ANT)			
TB001	*1-536-708-00	(UK)....TERMINAL BOARD, PUSH 4P			
RT101	1-228-996-00	RES, ADJ, CARBON 47K			
S301	1-554-303-21	SWITCH, KEY BOARD			
S302	1-554-303-21	SWITCH, KEY BOARD			
S303	1-554-303-21	SWITCH, KEY BOARD			
S304	1-554-303-21	SWITCH, KEY BOARD			
S305	1-554-303-21	SWITCH, KEY BOARD			
S306	1-554-303-21	SWITCH, KEY BOARD			
S307	1-554-303-21	SWITCH, KEY BOARD			
S308	1-554-303-21	SWITCH, KEY BOARD			
S309	1-554-303-21	SWITCH, KEY BOARD			
S310	1-554-303-21	SWITCH, KEY BOARD			
S311	1-554-303-21	SWITCH, KEY BOARD			
S312	1-554-303-21	SWITCH, KEY BOARD			
S313	1-570-876-11	SWITCH, KEY BOARD			
S314	1-570-876-11	SWITCH, KEY BOARD			
S315	1-570-876-11	SWITCH, KEY BOARD			
S316	1-570-876-11	SWITCH, KEY BOARD			
S317	1-570-876-11	SWITCH, KEY BOARD			
X201	1-567-250-11	OSCILLATOR, CERAMIC			
X301	1-567-736-11	VIBRATOR, CRYSTAL			