

ST-J300L

SERVICE MANUAL

AEP Model
UK Model

SPECIFICATIONS

Tuner		AM tuner	
Circuit system	FM stereo, FM/AM superheterodyne tuner Quartz-locked PLL digital synthesizer system	Frequency range	MW: 522 - 1,611 kHz LW: 144 - 288 kHz
FM tuner		Antenna	Layout-free AM antenna External antenna terminal
Frequency range	87.5 - 108 MHz	Intermediate frequency	450 kHz
Antenna terminals	75 ohms unbalanced 300 ohms balanced	Usable sensitivity (when layout-free AM antenna is used)	500 μ V/m (999 kHz) 700 μ V/m (230 kHz)
Intermediate frequency	10.7 MHz	Signal-to-noise ratio	54 dB (50 mV/m) (999 kHz) 50 dB (50 mV/m) (230 kHz)
Sensitivity (at 46 dB quieting)	16.8 dBf, 3.6 μ V (mono) 37.9 dBf, 43 μ V (stereo)	Harmonic distortion	0.3% (50 mV/m, 400 Hz)
Signal-to-noise ratio (at 40 kHz deviation)	74 dB (mono) 69 dB (stereo)	Selectivity	32 dB
Harmonic distortion	0.08% (mono), 0.15% (stereo) at 1 kHz	General	
IM distortion	0.08% (mono), 0.15% (stereo)	Power requirements	
Separation	50 dB (at 1 kHz)	UK model: 240 V AC (or 220 V AC adjustable by authorized Sony personnel), 50/60 Hz	
Frequency response	40 Hz - 12.5 kHz $\pm$ 0.5 dB	AEP model: 220 V AC (or 240 V AC adjustable by authorized Sony personnel), 50/60 Hz	
Selectivity	70 dB (at 300 kHz)	Power consumption	
Capture ratio	1.0 dB	14 W	
AM suppression ratio	65 dB	Dimensions	
Image response ratio	70 dB	Approx. 430 $\times$ 80 $\times$ 246 mm (w/h/d) (17 $\times$ 3 $\frac{1}{4}$ $\times$ 9 $\frac{3}{4}$ inches)	
IF response ratio	70 dB	Weight	
Spurious response ratio	80 dB	Approx. 2.7 kg (5 lb 14 oz)	
Muting threshold	30 dBf	FM STEREO/FM-AM TUNER	
Automatic tuning threshold	30 dBf		
Output	410 mV, 3.3 kilohms (at 40 kHz deviation)	SONY	



WARNING !!

ADVARSEL!

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

FEATURES

- Random preset function. Up to 25 stations can be preset for quick tuning.
- FM/MW/LW automatic tuning function
- Two-way (up and down) memory scanning function allows you to scan and check programs broadcast on the preset stations.

LITHIUM BATTERY

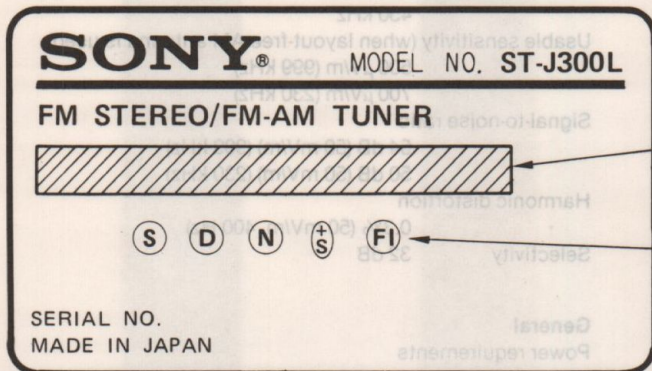
SHOULD ONLY BE CHANGED BY TECHNICAL PERSONNEL. THERE IS A RISK FOR EXPLOSION AT A WRONG HANDLING.

“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

— Printed on Back Panel —



AEP Model: AC: 220 V ~ 50/60 Hz 14 W

UK Model: AC: 240 V ~ 50/60 Hz 14 W

AEP Model: Type 2

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS 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.

LOCATION AND FUNCTION OF CONTROLS

FM stereo output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B)
R-CH	R-CH	(C)
L-CH	R-CH	(D)

L-CH Stereo separation: (A) - (B)
R-CH Stereo separation: (C) - (D)

STEREO indicator

POWER switch

SIGNAL METER

LCD DISPLAY

MEMORY indicator

Appears for a few seconds when the MEMORY button is pressed to indicate the memory circuit is standing by.

MUTING indicator

TUNED indicator

AUTO indicator

Band indicator

Frequency indicator

Preset number indicator



STEREO/MUTE button (for FM reception only)

This switch serves the dual purpose of selecting stereo/monaural mode, and switching the FM muting ON/OFF.

Normally set to the stereo mode (FM muting ON). "MUTING" indication appears in the display. The tuner operates in the stereo mode for a stereo sound source, and automatically switches to mono mode for a monaural sound source.

BAND FM/MW/LW selector

MEMORY button

Press to operate the memory circuit.

Number buttons

Press appropriate button(s) to select the desired radio station to preset or recall.

ENTER button

Press this button after selecting the desired radio station using the number buttons.

TUNING buttons

Press + to tune in a higher frequency and - for a lower frequency.

MEMORY SCAN button

Press to sequentially receive broadcasting from preset stations.

AUTO (automatic) TUNING button

Select the automatic or manual tuning mode. When the automatic tuning mode is selected, the AUTO indication appears on the display.

SECTION 1

ELECTRICAL ADJUSTMENTS

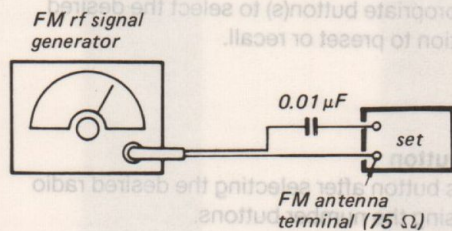
FM SECTION

FM Discriminator Alignment

Setting:

BAND FM/MW/LW switch: FM

Procedure:

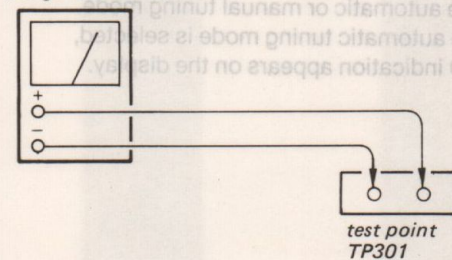


Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: 1 kHz, 40 kHz deviation (100%)

1. Tune the set to 98 MHz.
2. Adjust T301 for a 0 V reading on the VOM.
..... NULL Adjustment
3. Adjust T302 for a minimum reading on the distortion meter. Distortion Adjustment

Note: When the ceramic filter is replaced, these adjustments should be made.

VOM
(range: 2.5 V DC)

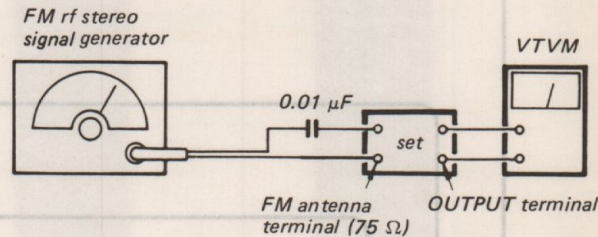


FM Stereo Separation Adjustment

Setting:

STEREO/MUTE switch: ON (STEREO)
BAND FM/MW/LW switch: FM

Procedure:



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Mode: Stereo
Modulation:
Audio (1 kHz): 16.25 kHz deviation (40.625%)
Pilot (19 kHz): 7.5 kHz deviation (18.75%)
Sub-channel (38 kHz): 16.25 kHz deviation (40.625%)

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RV401 for minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RV401 for minimum reading.

L-CH Stereo separation: (A) - (B)

R-CH Stereo separation: (C) - (D)

The separations of both channels should be equal.

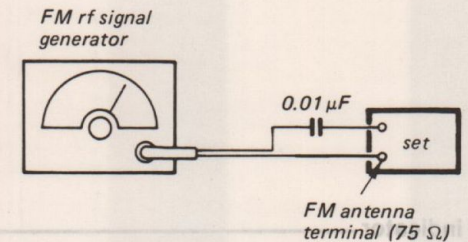
The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.

SIGNAL METER Lighting Level Adjustment

Setting:

BAND FM/MW/LW switch: FM

Procedure:



Carrier frequency: 98 MHz
Modulation: 1 kHz, 40 kHz deviation (100%)
Output level: 562 μV (55 dB)

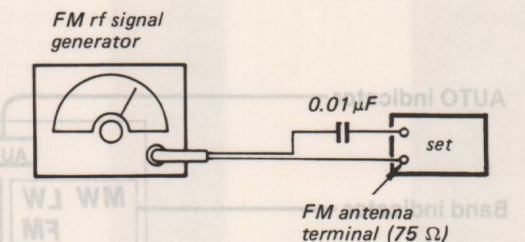
1. Tune the set to 98 MHz.
2. Adjust RV350 until the scale-5 on SIGNAL METER indicator light up.

TUNED Indication Lighting Level Adjustment

Setting:

STEREO/MUTE switch: OFF
BAND FM/MW/LW switch: FM

Procedure:



Carrier frequency: 98 MHz
Modulation: 1 kHz, 40 kHz deviation (100%)
Output level: 17.9 μV (25 dB)

1. Tune the set to 98 MHz.
2. Adjust RV301 so that the TUNED indicator goes on.

SECTION 2 DIAGRAMS

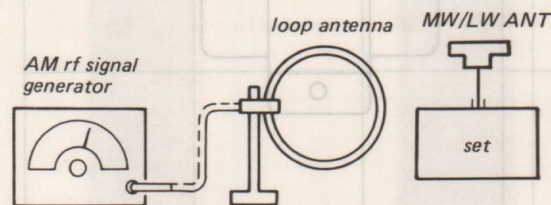
AM SECTION

TUNED Indication Lighting Level Adjustment

Setting:

BAND FM/MW/LW switch: LW

Procedure:



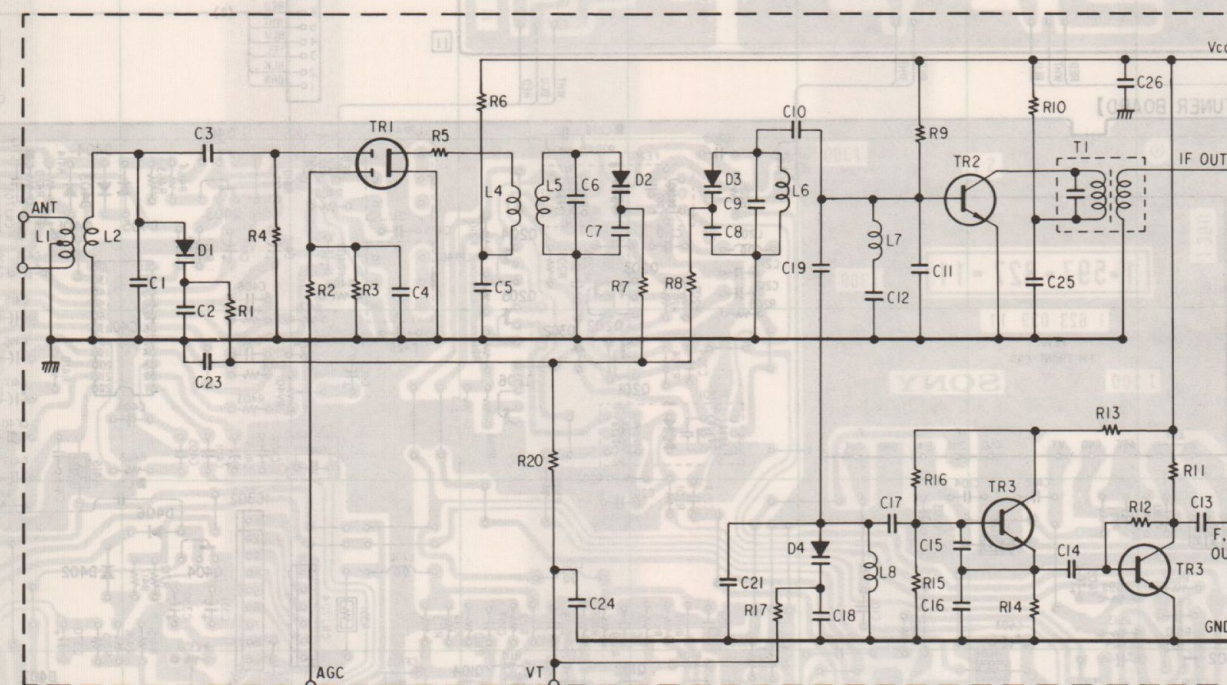
Carrier frequency: 216 kHz
Modulation: 400 Hz, 30% modulation

1. Set the loop antenna so that the AM antenna input level becomes 2.5 mV/m (68 dBμ/m).
2. Adjust RV302 so that the TUNED indicator goes on.

RV302

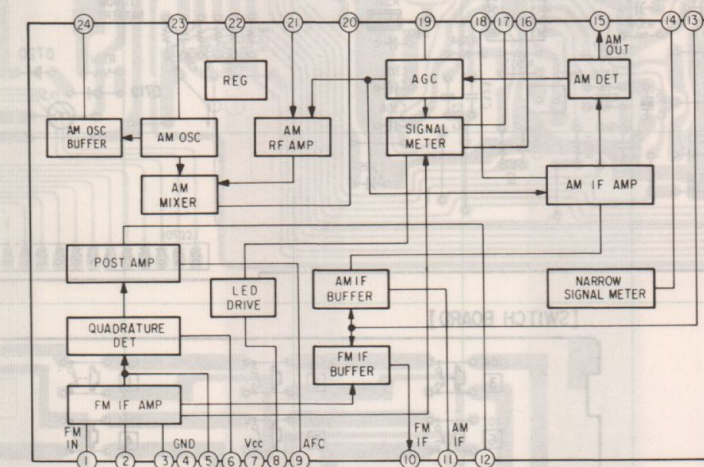
2-1. FM FRONT-END SCHEMATIC DIAGRAM

The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.

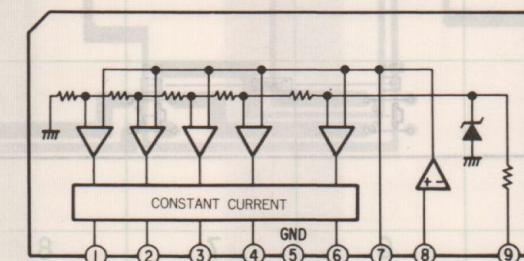


2-2. IC BLOCK DIAGRAMS

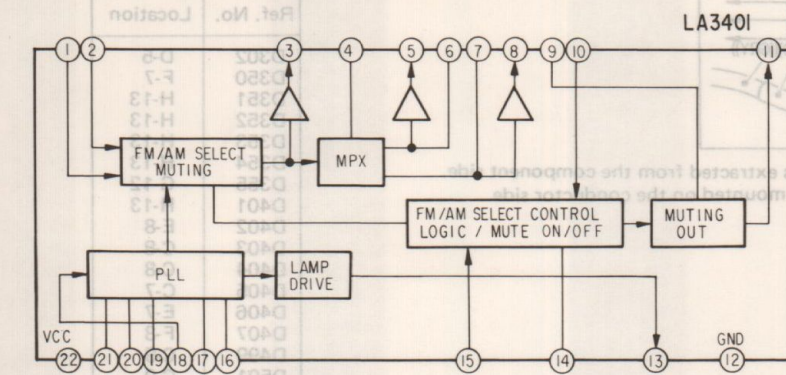
• IC301 LA1266



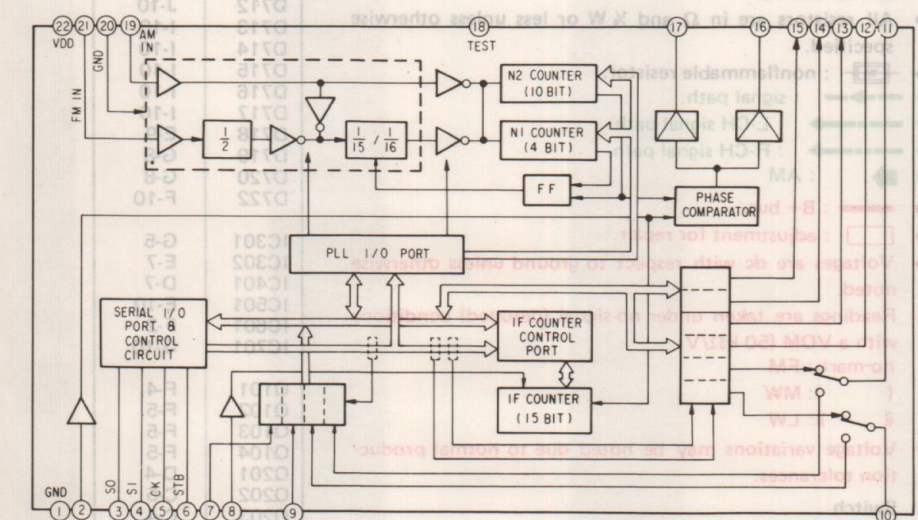
• IC302 IR2E31A



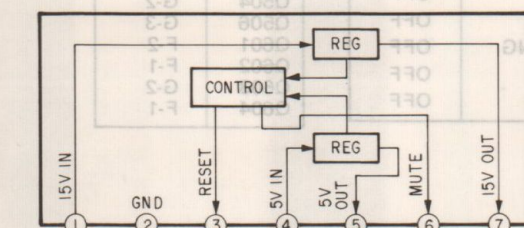
• IC401 LA3401



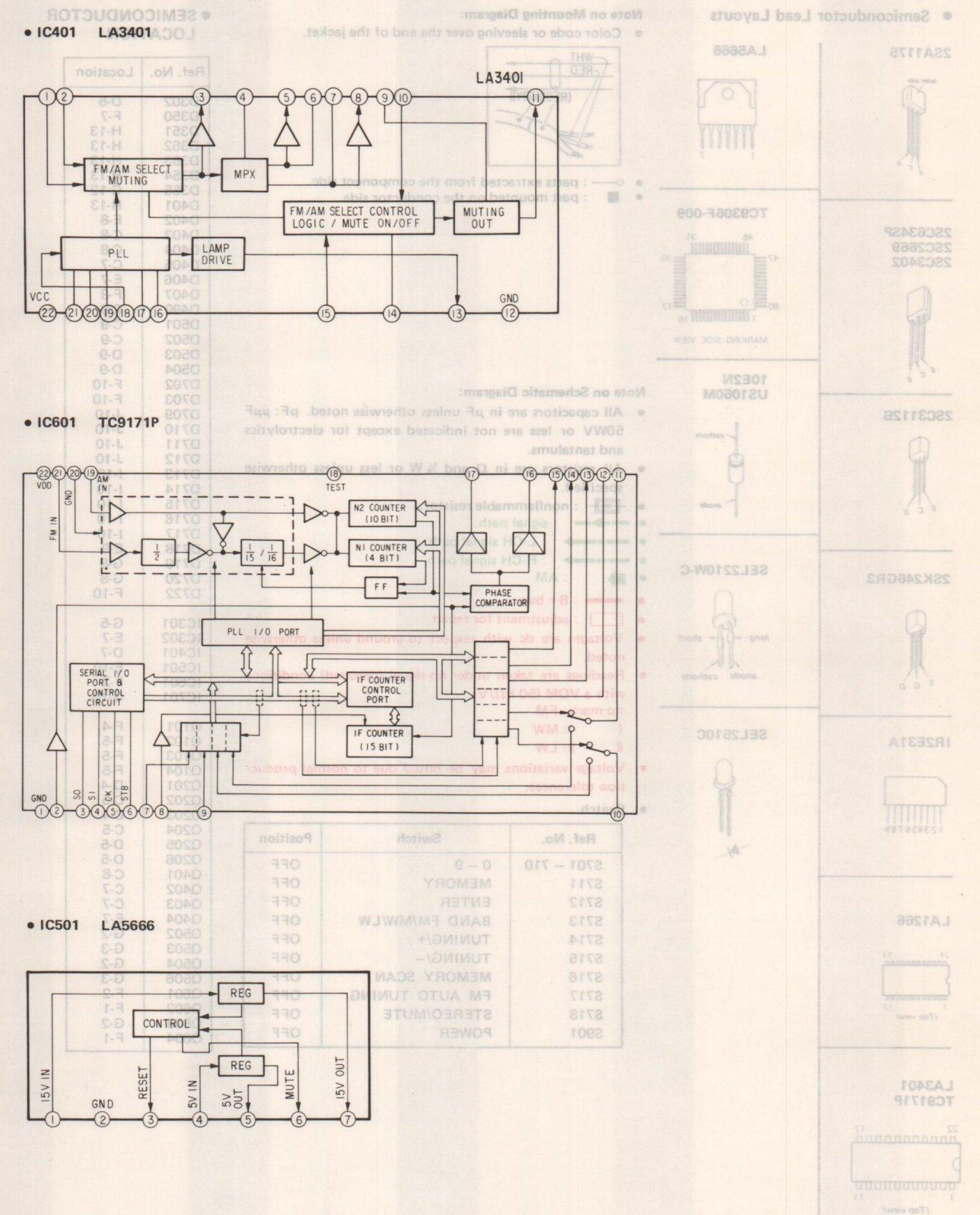
• IC601 TC9171P



• IC501 LA5666



2-3. MOUNTING DIAGRAM



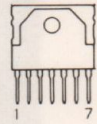
2-3. MOUNTING DIAGRAM

Semiconductor Lead Layouts

2SA1175



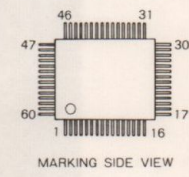
LA5666



2SC634SP
2SC2669
2SC3402



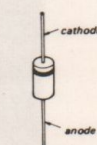
TC9306F-009



2SC3112B



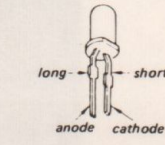
10E2N
US1060M



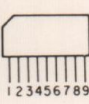
2SK246GR3



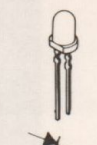
SEL2210W-C



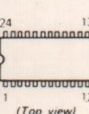
IR2E31A



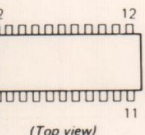
SEL2510C



LA1266

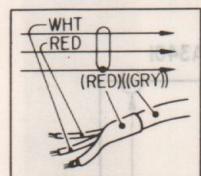


LA3401
TC9171P



Note on Mounting Diagram:

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



- : parts extracted from the component side.
- : part mounted on the conductor side.

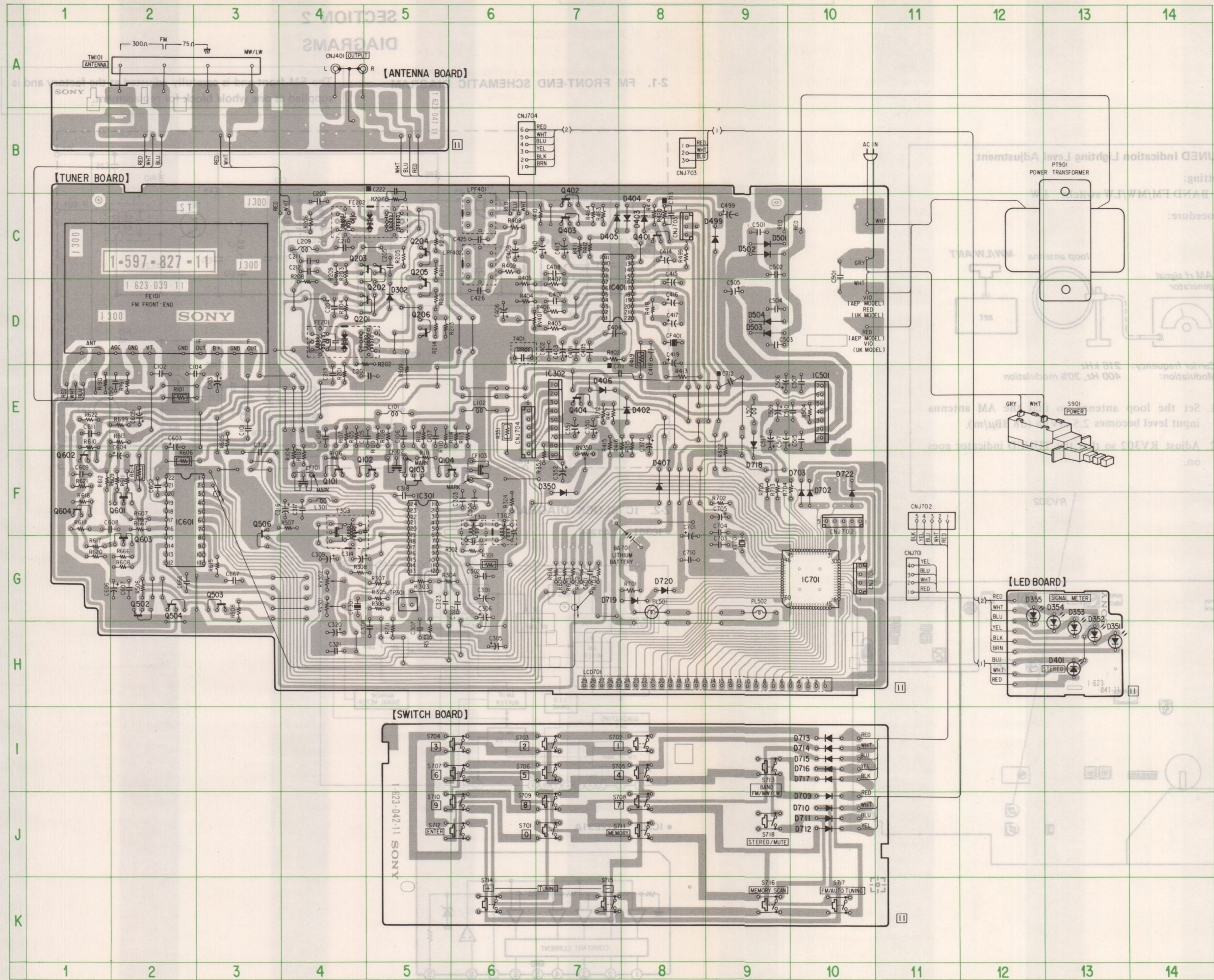
Note on Schematic Diagram:

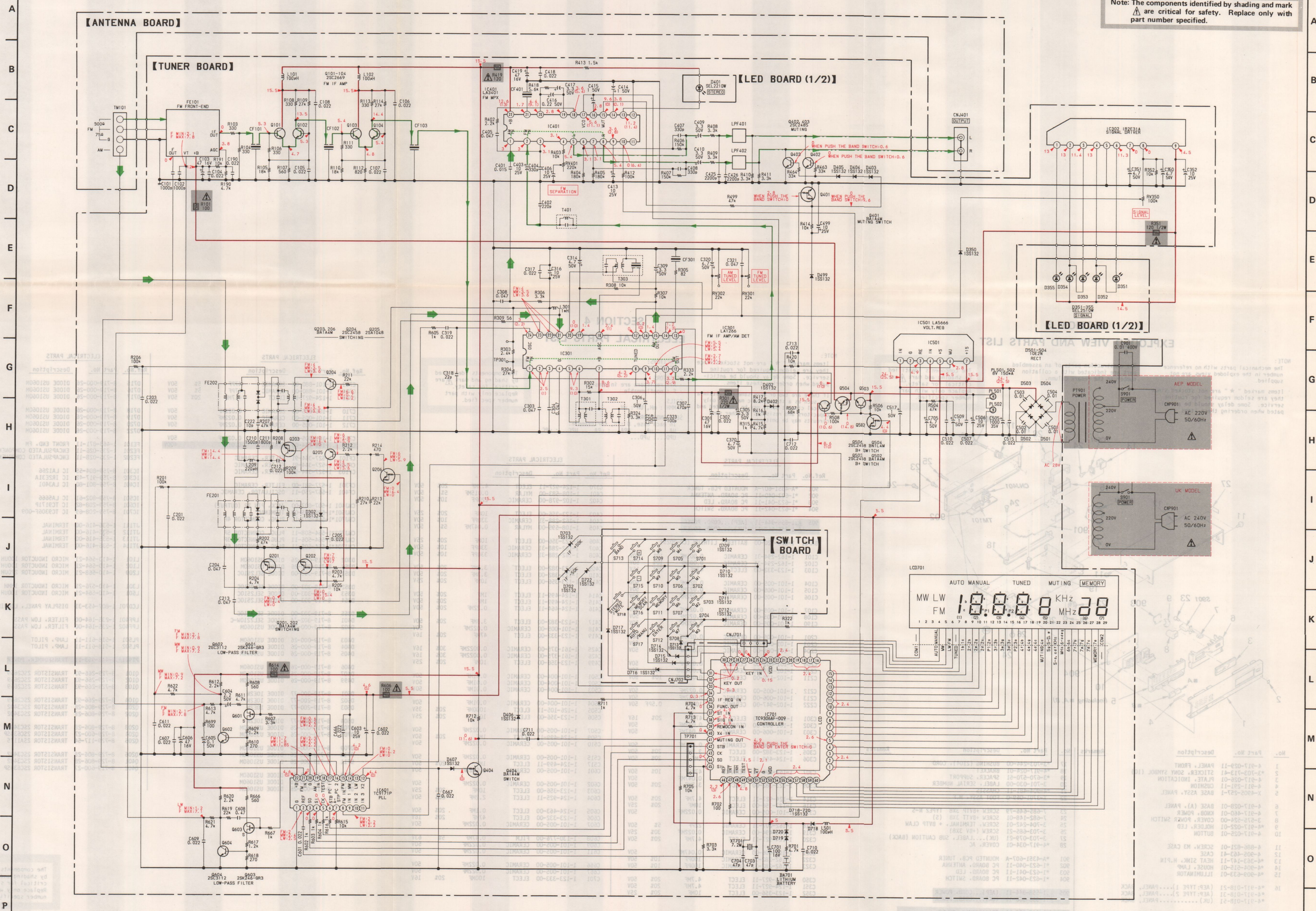
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : nonflammable resistor.
- : signal path.
- : L-CH signal path.
- : R-CH signal path.
- : AM
- : B+ bus.
- : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
no mark: FM
(): MW
(): LW
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S701 - 710	0 - 9	OFF
S711	MEMORY	OFF
S712	ENTER	OFF
S713	BAND FM/MW/LW	OFF
S714	TUNING/+	OFF
S715	TUNING/-	OFF
S716	MEMORY SCAN	OFF
S717	FM AUTO TUNING	OFF
S718	STEREO/MUTE	OFF
S901	POWER	OFF

SEMICONDUCTOR LOCATION

Ref. No.	Location
D302	D-5
D350	F-7
D351	H-13
D352	H-13
D353	H-13
D354	H-13
D355	G-12
D401	H-13
D402	E-8
D403	C-8
D404	C-8
D405	C-7
D406	E-7
D407	F-8
D499	C-9
D501	C-9
D502	C-9
D503	D-9
D504	D-9
D702	F-10
D703	F-10
D709	J-10
D710	J-10
D711	J-10
D712	J-10
D713	I-10
D714	I-10
D715	I-10
D716	I-10
D717	I-10
D718	E-9
D719	G-8
D720	G-8
D722	F-10
IC301	G-5
IC302	E-7
IC401	D-7
IC501	E-10
IC601	F-2
IC701	G-10
Q101	F-4
Q102	F-5
Q103	F-5
Q104	F-5
Q201	D-4
Q202	C-5
Q203	C-4
Q204	C-5
Q205	D-5
Q206	D-5
Q401	C-8
Q402	C-7
Q403	C-7
Q404	E-7
Q502	G-2
Q503	G-3
Q504	G-2
Q601	F-2
Q602	F-1
Q603	G-2
Q604	F-1





SECTION 3

EXPLODED VIEW AND PARTS LIST

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

Items marked * are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The construction parts of an assembled part are indicated with a collation number in the remark column.

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

NOTE:

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.

SECTION 4

ELECTRICAL PARTS LIST

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 shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*A-4351-607-A	MOUNTED PCB, TUNER
902	*1-623-040-11	PC BOARD, ANTENNA
903	*1-623-041-11	PC BOARD, LED
904	*1-623-042-11	PC BOARD, SWITCH
905	 A.1-558-944-11	(AEP)...CORD, POWER
	 A.1-556-560-11	(UK)...CORD, POWER
BA701	1-528-120-00	BATTERY, LITHIUM (CR-2025)
C101	1-162-294-31	CERAMIC 0.001MF 10% 50V
C102	1-162-294-31	CERAMIC 0.001MF 10% 50V
C103	1-123-332-00	ELECT 47MF 20% 16V
C104	1-101-005-00	CERAMIC 0.022MF 50V
C105	1-101-005-00	CERAMIC 0.022MF 50V
C106	1-101-005-00	CERAMIC 0.022MF 50V
C107	1-101-005-00	CERAMIC 0.022MF 50V
C108	1-101-005-00	CERAMIC 0.022MF 50V
C190	1-101-005-00	CERAMIC 0.022MF 50V
C201	1-101-005-00	CERAMIC 0.022MF 50V
C203	1-101-005-00	CERAMIC 0.022MF 50V
C204	1-101-006-00	CERAMIC 0.047MF 50V
C205	1-101-005-00	CERAMIC 0.022MF 50V
C210	1-102-119-00	CERAMIC 0.0015MF 10% 50V
C211	1-102-120-00	CERAMIC 0.0018MF 10% 50V
C212	1-101-005-00	CERAMIC 0.022MF 50V
C213	1-101-006-00	CERAMIC 0.047MF 50V
C222	1-102-947-00	CERAMIC 10PF 0.5PF 50V
C301	1-123-332-00	ELECT 47MF 20% 16V
C302	1-101-005-00	CERAMIC 0.022MF 50V
C303	1-101-006-00	CERAMIC 0.047MF 50V
C304	1-101-006-00	CERAMIC 0.047MF 50V
C305	1-123-382-00	ELECT 3.3MF 20% 50V
C306	1-124-499-11	ELECT 1MF 20% 50V
C307	1-162-290-31	CERAMIC 470PF 10% 50V
C308	1-101-006-00	CERAMIC 0.047MF 50V
C309	1-123-382-00	ELECT 3.3MF 20% 50V
C314	1-124-927-11	ELECT 4.7MF 20% 50V
C316	1-123-356-00	ELECT 10MF 20% 25V
C317	1-101-005-00	CERAMIC 0.022MF 50V
C318	1-162-207-31	CERAMIC 22PF 5% 50V
C319	1-161-494-00	CERAMIC 0.022MF 30% 25V
C320	1-124-927-11	ELECT 4.7MF 20% 50V
C321	1-101-006-00	CERAMIC 0.047MF 50V
C322	1-162-282-31	CERAMIC 100PF 10% 50V
C323	1-162-282-31	CERAMIC 100PF 10% 50V
C350	1-124-927-11	ELECT 4.7MF 20% 50V
C351	1-124-927-11	ELECT 4.7MF 20% 50V
C352	1-123-356-00	ELECT 10MF 20% 25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C370	1-124-927-11	ELECT 4.7MF 20% 50V
C401	1-108-583-00	MYLAR 0.015MF 5% 50V
C402	1-102-978-00	CERAMIC 220PF 10% 50V
C403	1-123-356-00	ELECT 10MF 20% 25V
C404	1-162-288-31	CERAMIC 330PF 10% 50V
C405	1-108-595-00	MYLAR 0.047MF 5% 50V
C406	1-123-356-00	ELECT 10MF 20% 25V
C407	1-162-288-31	CERAMIC 330PF 10% 50V
C408	1-162-288-31	CERAMIC 330PF 10% 50V
C409	1-123-382-00	ELECT 3.3MF 20% 50V
C410	1-123-382-00	ELECT 3.3MF 20% 50V
C413	1-123-356-00	ELECT 10MF 20% 25V
C414	1-124-499-11	ELECT 1MF 20% 50V
C415	1-124-499-11	ELECT 1MF 20% 50V
C416	1-124-464-11	ELECT 0.22MF 20% 50V
C417	1-123-382-00	ELECT 3.3MF 20% 50V
C418	1-101-005-00	CERAMIC 0.022MF 50V
C419	1-123-332-00	ELECT 47MF 20% 16V
C425	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C426	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C499	1-123-356-00	ELECT 10MF 20% 25V
C501	1-101-004-00	CERAMIC 0.01MF 50V
C502	1-101-004-00	CERAMIC 0.01MF 50V
C503	1-101-004-00	CERAMIC 0.01MF 50V
C504	1-101-004-00	CERAMIC 0.01MF 50V
C505	1-126-105-11	ELECT 1000MF 20% 35V
C506	1-123-356-00	ELECT 10MF 20% 25V
C507	1-101-005-00	CERAMIC 0.022MF 50V
C509	1-124-499-11	ELECT 1MF 20% 50V
C510	1-101-005-00	CERAMIC 0.022MF 50V
C517	1-124-499-11	ELECT 1MF 20% 50V
C601	1-101-005-00	CERAMIC 0.022MF 50V
C602	1-101-005-00	CERAMIC 0.022MF 50V
C603	1-123-356-00	ELECT 10MF 20% 25V
C604	1-124-925-11	ELECT 2.2MF 20% 50V
C605	1-124-463-00	ELECT 0.1MF 20% 50V
C606	1-123-332-00	ELECT 47MF 20% 16V
C607	1-101-005-00	CERAMIC 0.022MF 50V
C608	1-130-776-00	FILM 0.47MF 5% 63V
C609	1-101-005-00	CERAMIC 0.022MF 50V
C611	1-101-005-00	CERAMIC 0.022MF 50V
C666	1-101-005-00	CERAMIC 0.022MF 50V
C667	1-101-005-00	CERAMIC 0.022MF 50V
C701	1-123-333-00	ELECT 100MF 20% 16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C703	1-101-880-00	CERAMIC 47PF 5% 50V
C704	1-101-880-00	CERAMIC 47PF 5% 50V
C705	1-124-927-11	ELECT 4.7MF 20% 50V
C710	1-101-005-00	CERAMIC 0.022MF 50V
C711	1-101-005-00	CERAMIC 0.022MF 50V
C712	1-101-005-00	CERAMIC 0.022MF 50V
C713	1-101-005-00	CERAMIC 0.022MF 50V
C901	 A.1-161-744-00	CERAMIC 0.01MF 400V
CF101	1-527-344-91	FILTER, CERAMIC
CF102	1-527-344-91	FILTER, CERAMIC
CF103	1-527-344-91	FILTER, CERAMIC
CF301	1-527-981-00	FILTER, CERAMIC
CF401	1-567-250-11	OSCILLATOR, CERAMIC
CNJ401	1-507-807-00	JACK, PIN 2P (OUTPUT)
CNJ501	*1-535-115-00	TERMINAL
CNJ701	*1-564-507-11	PLUG, CONNECTOR 4P
CNJ702	*1-564-508-11	PLUG, CONNECTOR 5P
CNJ703	*1-564-506-11	PLUG, CONNECTOR 3P
CNJ704	*1-564-509-11	PLUG, CONNECTOR 6P
D302	8-719-000-26	DIODE US1060M
D350	8-719-000-26	DIODE US1060M
D351	8-719-303-00	DIODE SEL2510C
D352	8-719-303-00	DIODE SEL2510C
D353	8-719-303-00	DIODE SEL2510C
D354	8-719-303-00	DIODE SEL2510C
D355	8-719-303-00	DIODE SEL2510C
D401	8-719-302-74	DIODE SEL2210W-C
D402	8-719-000-26	DIODE US1060M
D403	8-719-000-26	DIODE US1060M
D404	8-719-000-26	DIODE US1060M
D405	8-719-000-26	DIODE US1060M
D406	8-719-000-26	DIODE US1060M
D407	8-719-000-26	DIODE US1060M
D499	8-719-000-26	DIODE US1060M
D501	8-719-200-77	DIODE 10E2N
D502	8-719-200-77	DIODE 10E2N
D503	8-719-200-77	DIODE 10E2N
D504	8-719-200-77	DIODE 10E2N
D702	8-719-000-26	DIODE US1060M
D703	8-719-000-26	DIODE US1060M
D709	8-719-000-26	DIODE US1060M
D710	8-719-000-26	DIODE US1060M
D711	8-719-000-26	DIODE US1060M
D712	8-719-000-26	DIODE US1060M
D713	8-719-000-26	DIODE US1060M
D714	8-719-000-26	DIODE US1060M

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D715	8-719-000-26	DIODE US1060M
D716	8-719-000-26	DIODE US1060M
D717	8-719-000-26	DIODE US1060M
D718	8-719-000-26	DIODE US1060M
D719	8-719-000-26	DIODE US1060M
D720	8-719-000-26	DIODE US1060M
D722	8-719-000-26	DIODE US1060M
FE101	1-463-871-11	FRONT END, FM
FE201	1-236-026-11	ENCAPSULATED COMPONENT
FE202	1-236-028-11	ENCAPSULATED COMPONENT
IC301	8-759-804-55	IC LA1266
IC302	8-759-917-42	IC IR2E31A
IC401	8-759-801-80	IC LA3401
IC501	8-759-802-61	IC LA5666
IC601	8-759-208-82	IC TC9171P
IC701	8-759-208-69	IC TC9306F-009
JT111	1-535-416-00	TERMINAL
JT112	1-535-416-00	TERMINAL
JT113	1-535-416-00	TERMINAL
JT114	1-535-416-00	TERMINAL
L101	1-410-564-21	MICRO INDUCTOR 100UH
L102	1-410-564-21	MICRO INDUCTOR 100UH
L209	1-410-568-21	MICRO INDUCTOR 220UH
L301	1-410-576-21	MICRO INDUCTOR 1MMH
L501	1-410-564-21	MICRO INDUCTOR 100UH
LCD701	1-807-453-31	DISPLAY PANEL, LIQUID CRYSTAL
LPF401	1-235-164-00	FILTER, LOW PASS
LPF402	1-235-164-00	FILTER, LOW PASS
PL501	1-518-611-11	LAMP, PILOT
PL502	1-518-611-11	LAMP, PILOT
PT901	 A.1-448-953-11	TRANSFORMER, POWER
Q101	8-729-266-93	TRANSISTOR 2SC2669
Q102	8-729-266-93	TRANSISTOR 2SC2669
Q103	8-729-266-93	TRANSISTOR 2SC2669
Q104	8-729-266-93	TRANSISTOR 2SC2669
Q201	8-729-806-28	TRANSISTOR 2SC3402
Q202	8-729-806-28	TRANSISTOR 2SC3402
Q203	8-729-806-28	TRANSISTOR 2SC3402
Q204	8-729-600-27	TRANSISTOR 2SC634SP
Q205	8-729-117-54	TRANSISTOR 2SA1175
Q206	8-729-806-28	TRANSISTOR 2SC3402
Q401	8-729-806-28	TRANSISTOR 2SC3402
Q402	8-729-600-27	TRANSISTOR 2SC634SP

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ELECTRICAL PARTS

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
Q403	8-729-600-27	TRANSISTOR 2SC634SP	Q503	8-729-600-27	TRANSISTOR 2SC634SP
Q404	8-729-806-28	TRANSISTOR 2SC3402	Q504	8-729-806-28	TRANSISTOR 2SC3402
Q502	8-729-806-28	TRANSISTOR 2SC3402	Q506	8-729-600-27	TRANSISTOR 2SC634SP
Q601	8-729-202-67	TRANSISTOR 2SK246GR3	Q602	8-729-201-84	TRANSISTOR 2SK246GR3
Q603	8-729-202-67	TRANSISTOR 2SK246GR3	Q604	8-729-201-84	TRANSISTOR 2SC3112B
R101	1-247-700-11	CARBON 100 5% 1/4W F	R103	1-249-411-11	CARBON 330 5% 1/4W
R103	1-249-411-11	CARBON 330 5% 1/4W	R104	1-249-411-11	CARBON 330 5% 1/4W
R105	1-249-432-11	CARBON 18K 5% 1/4W	R106	1-249-411-11	CARBON 330 5% 1/4W
R107	1-249-414-11	CARBON 560 5% 1/4W	R108	1-249-411-11	CARBON 330 5% 1/4W
R109	1-249-434-11	CARBON 27K 5% 1/4W	R110	1-249-432-11	CARBON 18K 5% 1/4W
R111	1-249-411-11	CARBON 330 5% 1/4W	R112	1-249-416-11	CARBON 820 5% 1/4W
R113	1-249-411-11	CARBON 330 5% 1/4W	R114	1-249-434-11	CARBON 27K 5% 1/4W
R190	1-249-425-11	CARBON 4.7K 5% 1/4W	R191	1-249-429-11	CARBON 10K 5% 1/4W
R201	1-249-441-11	CARBON 100K 5% 1/4W	R202	1-249-437-11	CARBON 47K 5% 1/4W
R203	1-249-425-11	CARBON 4.7K 5% 1/4W	R204	1-249-425-11	CARBON 4.7K 5% 1/4W
R205	1-249-429-11	CARBON 10K 5% 1/4W	R206	1-249-441-11	CARBON 100K 5% 1/4W
R207	1-249-437-11	CARBON 47K 5% 1/4W	R208	1-215-493-00	CARBON 1M 5% 1/4W
R209	1-249-441-11	CARBON 100K 5% 1/4W	R210	1-249-434-11	CARBON 27K 5% 1/4W
R211	1-249-433-11	CARBON 22K 5% 1/4W	R212	1-249-421-11	CARBON 2.2K 5% 1/4W
R213	1-249-433-11	CARBON 22K 5% 1/4W	R214	1-249-413-11	CARBON 470 5% 1/4W
R301	1-247-743-11	CARBON 220 5% 1/2W F	R302	1-249-431-11	CARBON 15K 5% 1/4W
R303	1-215-430-00	CARBON 2.4K 5% 1/4W	R304	1-249-434-11	CARBON 27K 5% 1/4W
R305	1-249-404-00	CARBON 82 5% 1/4W	R306	1-249-423-11	CARBON 3.3K 5% 1/4W
R307	1-249-429-11	CARBON 10K 5% 1/4W			

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R308	1-249-429-11	CARBON 10K 5% 1/4W	R309	1-249-402-11	CARBON 56 5% 1/4W
R315	1-249-417-11	CARBON 1K 5% 1/4W	R322	1-249-417-11	CARBON 1K 5% 1/4W
R324	1-249-423-11	CARBON 3.3K 5% 1/4W	R333	1-249-421-11	CARBON 2.2K 5% 1/4W
R351	1-247-740-11	CARBON 120 5% 1/2W F	R352	1-249-429-11	CARBON 10K 5% 1/4W
R402	1-249-421-11	CARBON 2.2K 5% 1/4W	R403	1-249-429-11	CARBON 10K 5% 1/4W
R404	1-247-885-00	CARBON 180K 5% 1/4W	R405	1-247-885-00	CARBON 180K 5% 1/4W
R406	1-247-883-00	CARBON 150K 5% 1/4W	R407	1-247-883-00	CARBON 150K 5% 1/4W
R408	1-249-423-11	CARBON 3.3K 5% 1/4W	R409	1-249-423-11	CARBON 3.3K 5% 1/4W
R410	1-249-423-11	CARBON 3.3K 5% 1/4W	R411	1-249-423-11	CARBON 3.3K 5% 1/4W
R412	1-249-441-11	CARBON 100K 5% 1/4W	R413	1-247-715-11	CARBON 1.5K 5% 1/4W
R414	1-249-429-11	CARBON 10K 5% 1/4W	R415	1-249-425-11	CARBON 4.7K 5% 1/4W
R416	1-249-417-11	CARBON 1K 5% 1/4W	R417	1-249-428-11	CARBON 8.2K 5% 1/4W
R418	1-247-849-00	CARBON 5.6K 5% 1/4W	R419	1-247-701-11	CARBON 120 5% 1/4W F
R420	1-249-429-11	CARBON 10K 5% 1/4W	R463	1-249-435-11	CARBON 33K 5% 1/4W
R464	1-249-435-11	CARBON 33K 5% 1/4W	R499	1-249-437-11	CARBON 47K 5% 1/4W
R504	1-249-437-11	CARBON 47K 5% 1/4W	R506	1-249-429-11	CARBON 10K 5% 1/4W
R507	1-249-439-11	CARBON 68K 5% 1/4W	R508	1-249-441-11	CARBON 100K 5% 1/4W
R602	1-249-417-11	CARBON 1K 5% 1/4W	R603	1-249-417-11	CARBON 1K 5% 1/4W
R604	1-249-417-11	CARBON 1K 5% 1/4W	R605	1-249-417-11	CARBON 1K 5% 1/4W
R606	1-247-700-11	CARBON 100 5% 1/4W F	R607	1-249-423-11	CARBON 3.3K 5% 1/4W
R608	1-249-414-11	CARBON 560 5% 1/4W	R609	1-249-418-11	CARBON 1.2K 5% 1/4W
R610	1-249-410-11	CARBON 270 5% 1/4W	R611	1-249-425-11	CARBON 4.7K 5% 1/4W
R612	1-249-421-11	CARBON 2.2K 5% 1/4W			

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
R613	1-249-425-11	CARBON 4.7K 5% 1/4W
R614	1-247-700-11	CARBON 100 5% 1/4W
R615	1-249-429-11	CARBON 10K 5% 1/4W
R616	1-249-417-11	CARBON 1K 5% 1/4W
R617	1-249-418-11	CARBON 1.2K 5% 1/4W
R618	1-249-410-11	CARBON 270 5% 1/4W
R619	1-249-433-11	CARBON 22K 5% 1/4W
R620	1-249-421-11	CARBON 2.2K 5% 1/4W
R621	1-249-425-11	CARBON 4.7K 5% 1/4W
R622	1-249-425-11	CARBON 4.7K 5% 1/4W
R666	1-249-414-11	CARBON 560 5% 1/4W
R667	1-249-417-11	CARBON 1K 5% 1/4W
R699	1-249-405-11	CARBON 100 5% 1/4W
R701	1-249-425-11	CARBON 4.7K 5% 1/4W
R702	1-249-405-11	CARBON 100 5% 1/4W
R703	1-249-423-11	CARBON 3.3K 5% 1/4W
R704	1-249-425-11	CARBON 4.7K 5% 1/4W
R705	1-249-429-11	CARBON 10K 5% 1/4W
R711	1-249-417-11	CARBON 1K 5% 1/4W
R712	1-249-429-11	CARBON 10K 5% 1/4W
R713	1-249-425-11	CARBON 4.7K 5% 1/4W
RV301	1-228-995-00	RES, ADJ, CARBON 22K
RV302	1-228-995-00	RES, ADJ, CARBON 22K
RV350	1-228-997-00	RES, ADJ, CARBON 100K
RV401	1-228-998-00	RES, ADJ, CARBON 220K
S701	1-554-303-21	SWITCH, KEY BOARD (0)
S702	1-554-303-21	SWITCH, KEY BOARD (1)
S703	1-554-303-21	SWITCH, KEY BOARD (2)
S704	1-554-303-21	SWITCH, KEY BOARD (3)
S705	1-554-303-21	SWITCH, KEY BOARD (4)
S706	1-554-303-21	SWITCH, KEY BOARD (5)
S707	1-554-303-21	SWITCH, KEY BOARD (6)
S708	1-554-303-21	SWITCH, KEY BOARD (7)
S709	1-554-303-21	SWITCH, KEY BOARD (8)
S710	1-554-303-21	SWITCH, KEY BOARD (9)
S711	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S712	1-554-303-21	SWITCH, KEY BOARD (ENTER)
S713	1-554-303-21	SWITCH, KEY BOARD (BAND FM/MW/LW)
S714	1-554-303-21	SWITCH, KEY BOARD (TUNING +)
S715	1-554-303-21	SWITCH, KEY BOARD (TUNING -)
S716	1-554-303-21	SWITCH, KEY BOARD (MEMORY SCAN)
S717	1-554-303-21	SWITCH, KEY BOARD (FM AUTO TUNING)
S718	1-554-303-21	SWITCH, KEY BOARD (STEREO/MUTE)
S901	1-553-318-00	SWITCH, PUSH (AC POWER)(1 KEY)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
T301	1-404-743-11	COIL, DISCRIMINATOR
T302	1-404-742-11	COIL, DISCRIMINATOR
T303	1-404-713-11	TRANSFORMER, IF
T401	1-235-126-00	ENCAPSULATED COMPONENT
TM101	1-536-708-00	TERMINAL BOARD, PUSH 4P (ANTENNA)
TP301	*1-560-060-00	PIN, CONNECTOR 2P
XT701	1-567-767-11	VIBRATOR, CRYSTAL
ACCESSORY & PACKING MATERIAL		
Part No.	Description	
1-402-082-11	ANTENNA, FERRITE-ROD (LW/MW/SW)	
1-501-351-21	ANTENNA, FEEDER	
1-558-543-11	CORD, CONNECTION	
3-701-630-00	BAG, POLYETHYLENE	
3-769-222-11	MANUAL, INSTRUCTION	
3-769-222-41	(AEP)...MANUAL, INSTRUCTION	
4-876-352-00	SHEET, PROTECTION	
4-917-009-81	INDIVIDUAL CARTON	
4-917-021-01	CUSHION	

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