

ST-JX250L/JX255L

SERVICE MANUAL

AEP Model
UK Model
ST-JX250L

AEP Model
ST-JX255L



ST-JX255L is an FM STEREO/
FM-AM TUNER in SEN-220.

SPECIFICATION

Tuner

Circuit system FM stereo, FM/AM superheterodyne tuner
Quartzlocked digital synthesizer system

FM tuner

Frequency range 87.5 – 108 MHz
Antenna terminal 300 ohms, balanced
IF 10.7 MHz

	(at 40 kHz deviation)
Sensitivity	at 46 dB quieting 19.5 dBf, 5 μ V (mono) 39.5 dBf, 50 μ V (stereo)
Usable sensitivity	11.5 dBf, 2 μ V (IHF)
Signal-to-noise ratio	74 dB (mono) 69 dB (stereo)
Harmonic distortion at 1 kHz	0.3% (mono) 0.5% (stereo)
Separation at 1 kHz	40 dB
Frequency response	40 Hz – 12.5 kHz $\pm$ 0.5 dB
Selectivity	50dB (300kHz)
AM suppression ratio	54 dB
Image response ratio	50 dB
IF response ratio	90 dB

	(at 40 kHz deviation)
Auto tuning threshold	30 dBf
Output	410mV, 4.7 k Ω (40 kHz dev)

MW/LW tuner section

	MW	LW
Frequency range	522 – 1.611 kHz	144 – 288 kHz
Antenna	Layout-free AM antenna, with external antenna terminal attached	
Intermediate frequency	450 kHz	
Sensitivity	500 μ V/m (when the Layout-free AM antenna is in use, at 999 kHz.)	700 μ /m (when the Layout-free AM antenna is in use, at 230 kHz.)
Signal-to-noise ratio	54 dB	50 dB
Harmonic distortion	0.3%	
Selectivity	35 dB (9 kHz)	

— Continued on next page —

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.

FM STEREO/FM-AM TUNER
SONY®

AUD



Power and others

Power requirements

AEP model: 220V ac, 50/60 Hz
(240V ac adjustable by authorized Sony personnel)
UK model: 240V ac, 50/60 Hz
(220V ac adjustable by authorized Sony personnel)

Power consumption

11 watts

Dimensions Approx. 430 x 80 x 250mm (w/h/d)
(17 x 3 1/4 x 9 7/8 inches)

Weight Approx. 2.5kg (5 lb 8 oz): ST-JX250L
Approx. 2.1kg (4 lb 10 oz): ST-JX255L

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.

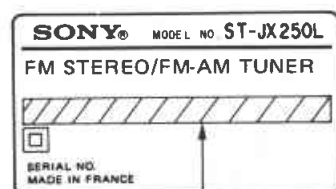
“Batteriet må kun udskiftes med et batteri af samme
fabrikat og type”.

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

MODEL IDENTIFICATION

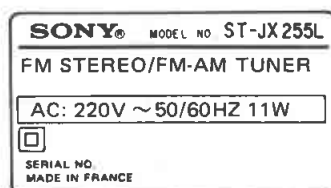
— Specification Labels —

ST-JX250L (AEP, UK model):



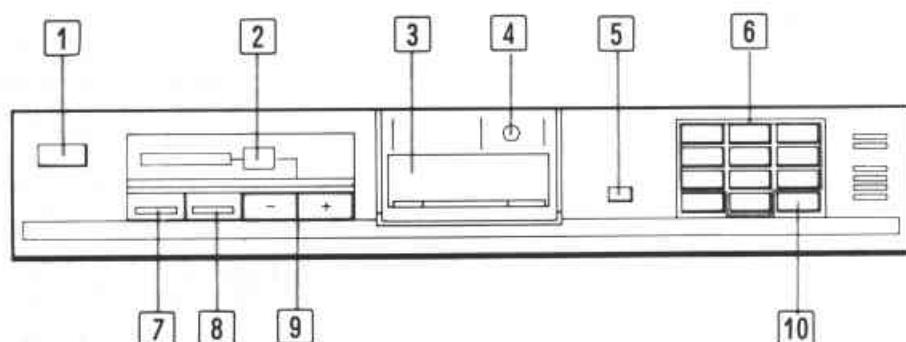
AEP model: AC:220V~50/60Hz 11W
UK model: AC:240V~50/60Hz 11W

ST-JX255L (AEP model)



FUNCTION OF CONTROLS

Front panel / Panneau avant / Panel frontal



1 Power switch: ST-JX250L

2 FM TUNING MODE select button

Press this button to select the manual or auto tuning mode.

3 Display window

4 STERO indicator

5 MEMORY button

Press this button to preset the station.

6 Number buttons

Press this button to enter the preset number.

7 BAND select button

8 MEMORY SCAN button

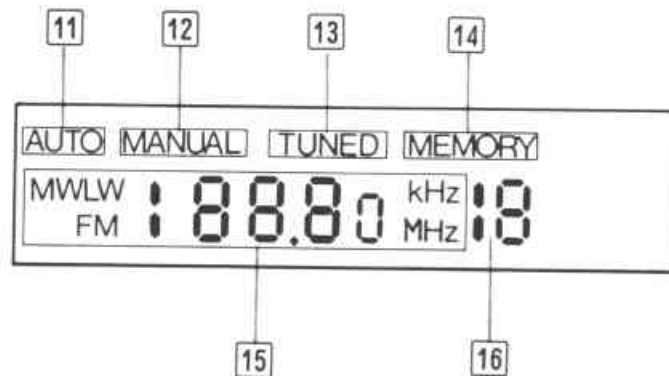
Press this button to sequentially receive broadcasting from the preset stations.

9 TUNING buttons

10 ENTER button

To preset or recall a memorized station, press this button after pressing the appropriate number button.

Display window / Fenêtre d'affichage / Visualizador



11 Auto tuning indicator

12 Manual tuning indicator

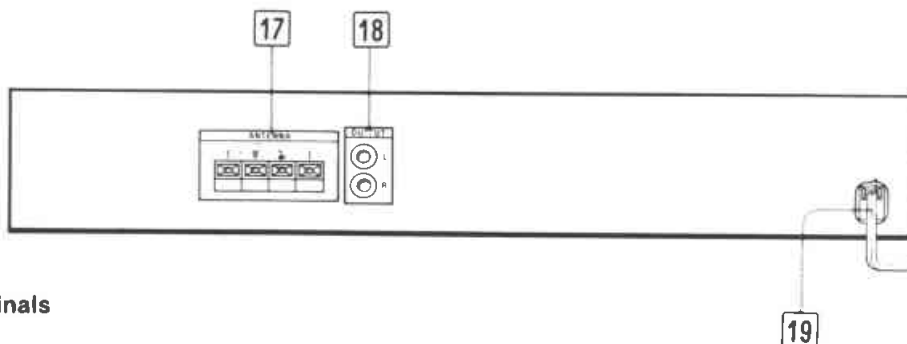
13 TUNED indicator

14 MEMORY indicator

15 Band/frequency indicator

16 Preset number indicator

Rear panel / Panneau arrière / Panel posterior



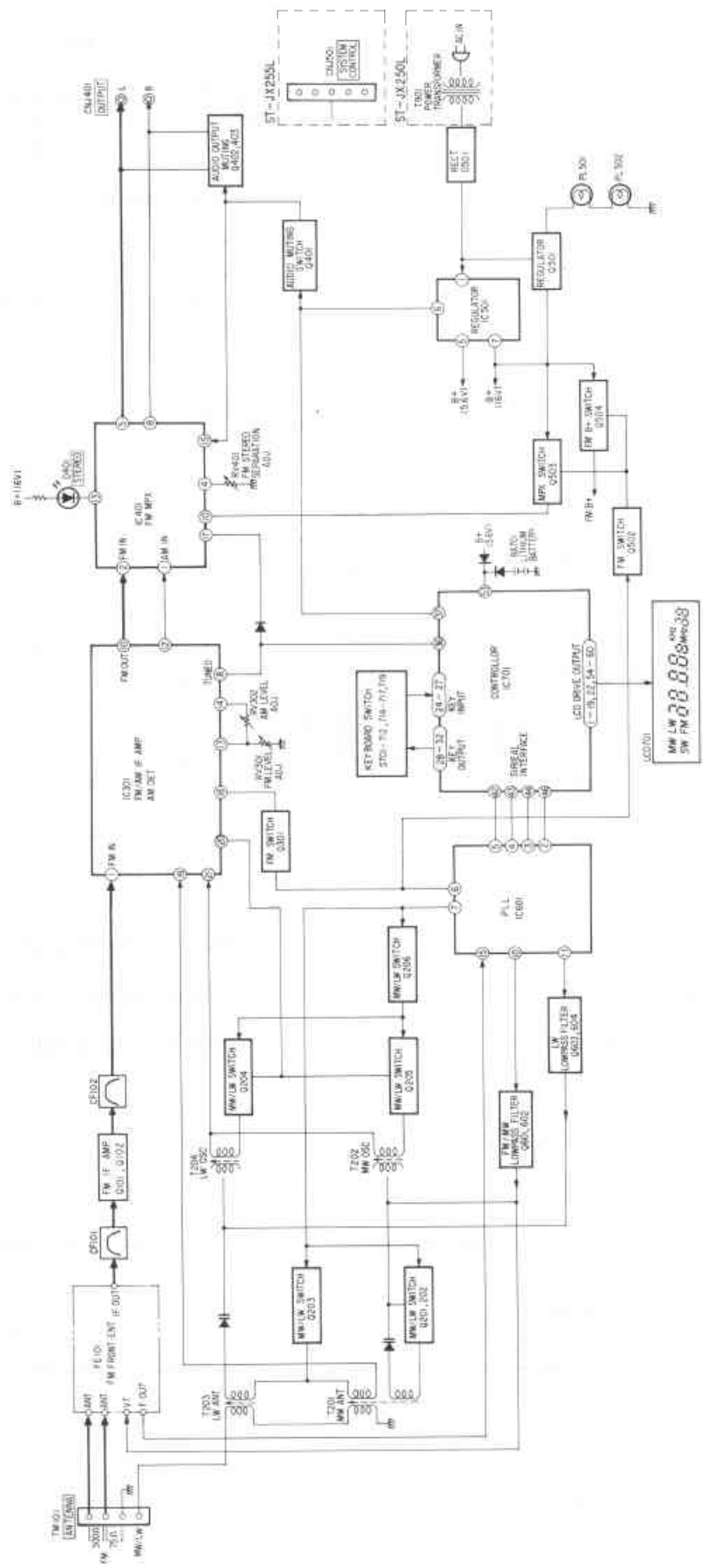
17 Antenna terminals

18 Output jacks

A jack to be connected to the amplifier.

19 Power cord : ST-JX250L

SECTION 1
BLOCK DIAGRAM

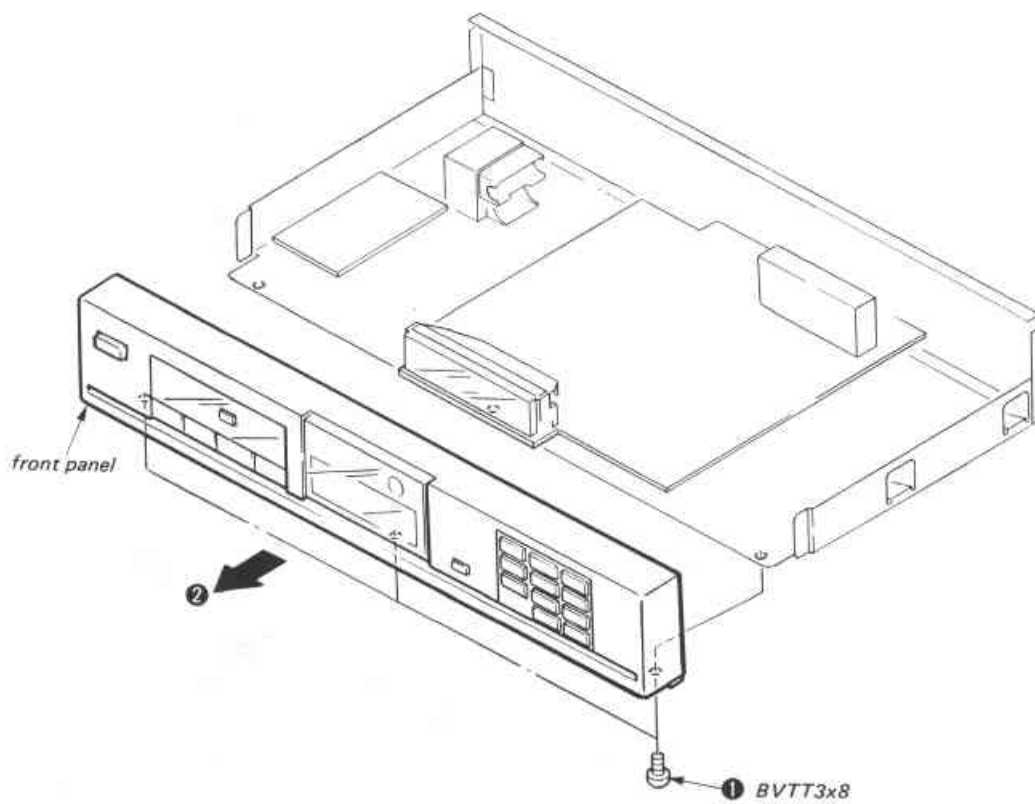


SECTION 2 DISASSEMBLY

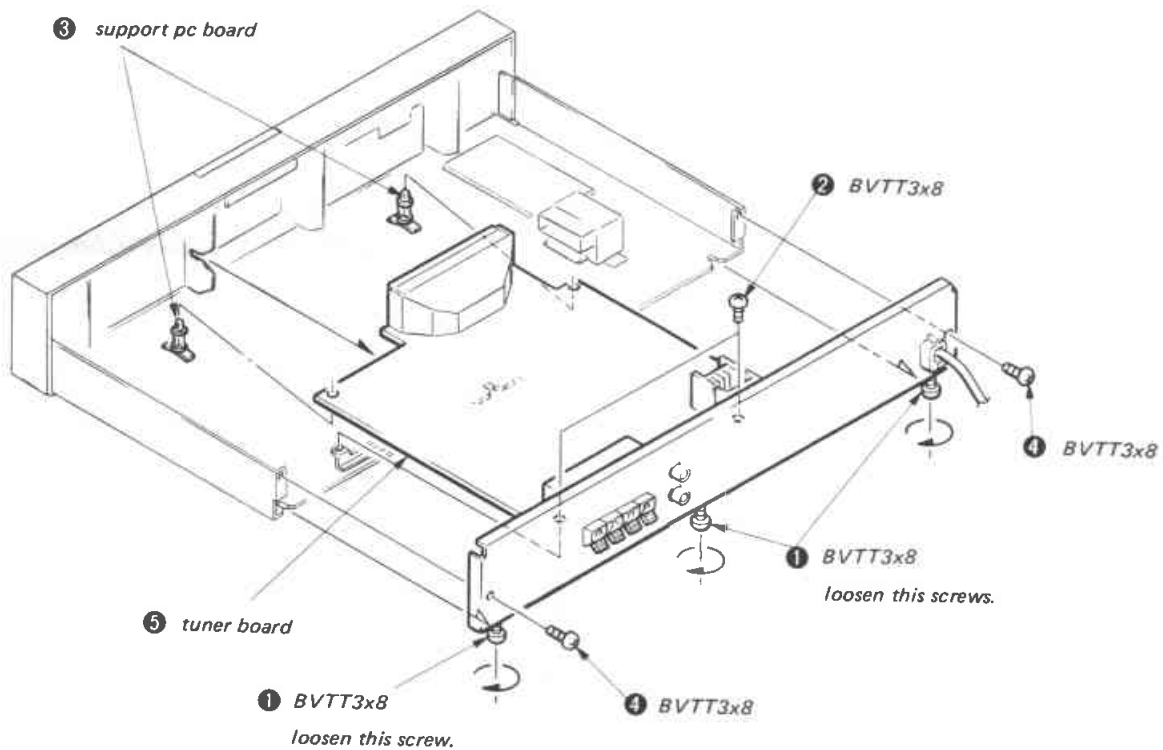
Note: Follow the disassembly procedure in the numerical order given.

CASE REMOVAL
Remove case by taking
out four screws.

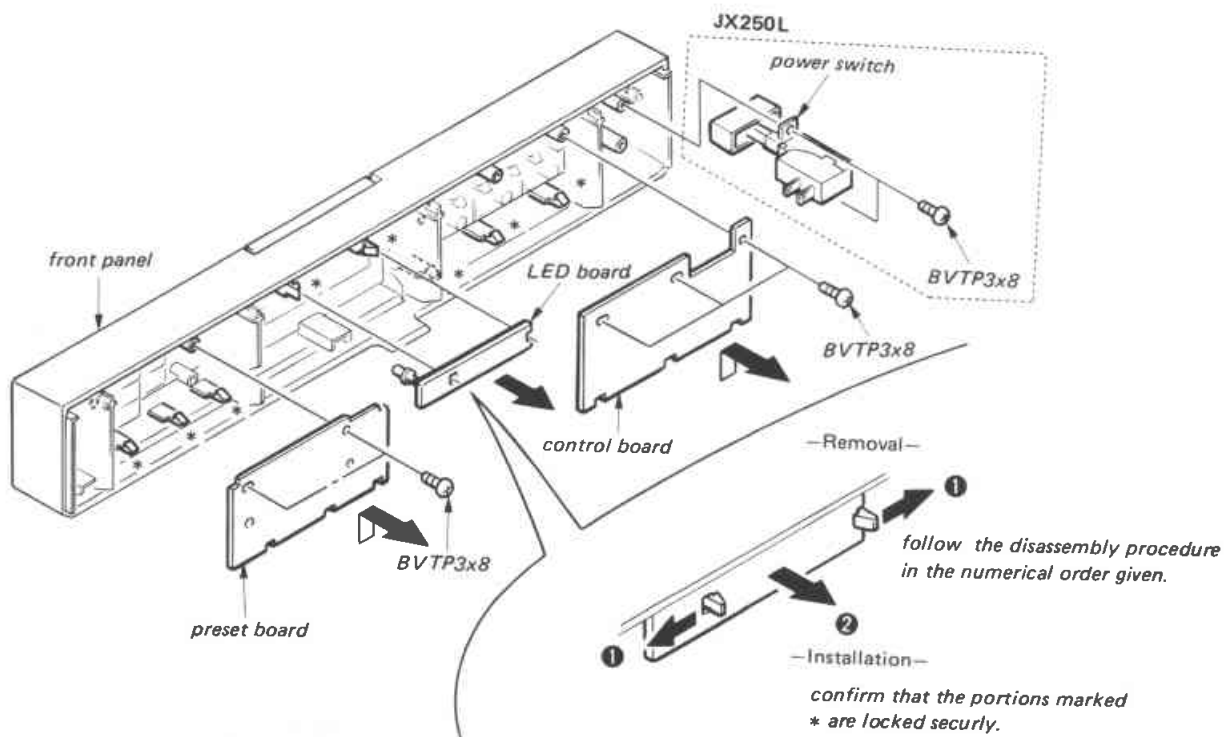
FRONT PANEL



TUNER BOARD



PRESET, LED, CONTROL BOARD AND POWER SWITCH



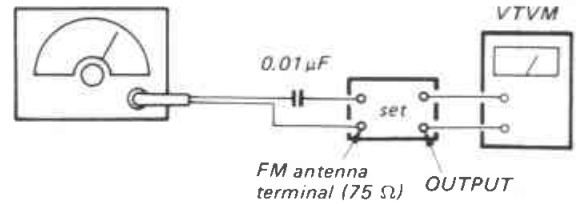
SECTION 3 ADJUSTMENTS

FM SECTION

FM stereo Separation Adjustment

Procedure:

FM rf stereo
signal
generator



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Mode: Stereo
Modulation:
Audio (1 kHz): 16.25 kHz deviation (40.6%)
Pilot (19 kHz): 7.5 kHz deviation (18.8%)
Sub-channel (38 kHz): 16.25 kHz deviation (40.6%)

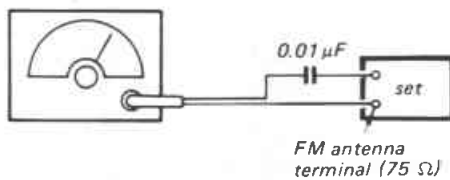
FM Discriminator Alignment

Setting:

BAND select button, FM

Procedure:

FM rf signal
generator

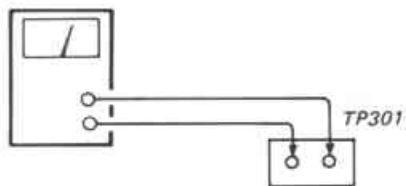


Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: 1 kHz, 40 kHz deviation (100%)

1. Tune the set to 98 MHz.
2. Adjust T301 for 0 V reading on the VOM

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

VOM
(range: 2.5 V dc)



T301

TP301

RV401

R1

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

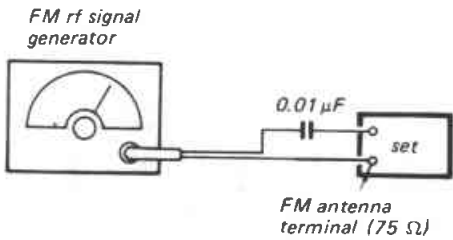
L-CH Stereo separation: Ⓐ – Ⓑ[Ⓐ]
R-CH Stereo separation: Ⓒ – Ⓓ[Ⓒ]

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.

FM TUNED Indication Lighting Level Adjustment

Setting:



Carrier frequency: 98 MHz
Modulation: 1 kHz, 40 kHz deviation (100%)
Output level: 17.8 μV (25 dB)

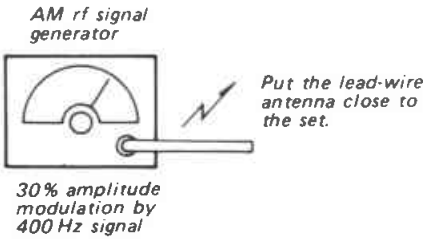
1. Tune the set to 98 MHz.
2. Adjust RV301 so that the TUNED indicator lights up.

MW/LW SECTION

MW adjustment should be perform

Setting:

BAND select button: MW/LW



AM FREQUENCY COVERAGE ADJUSTMENT

adjustment part	reading on VOM	frequency indication
T202	1.0 ± 0.2 V	522 kHz
CT202	9 ± 0.4 V	1,611 kHz

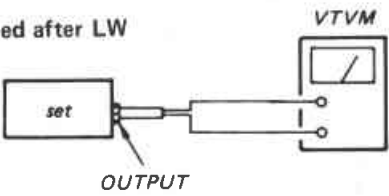
T202

CT202

AM IF ALIGNMENT

Adjust for a maximum reading
on VTVM.

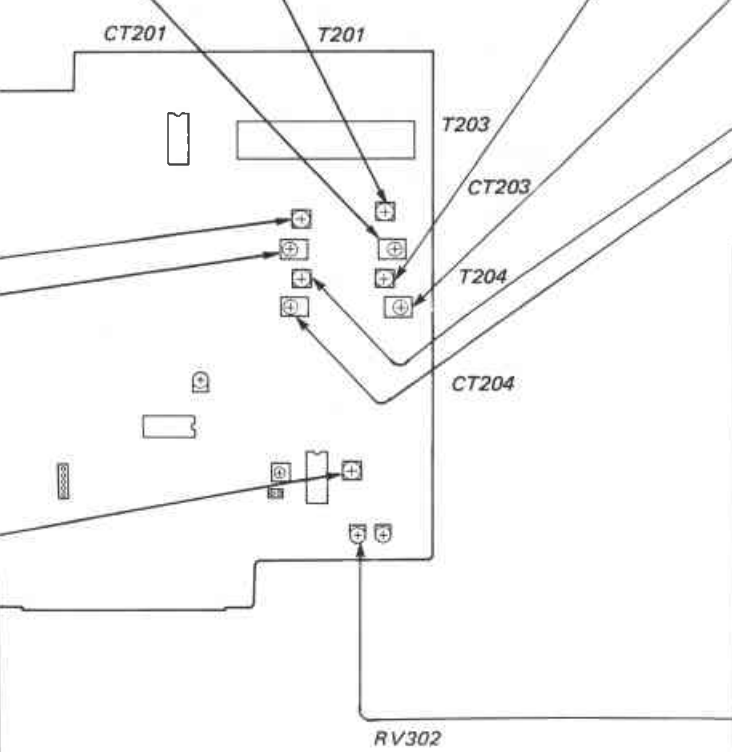
450 kHz
T302



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

V TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
1,404 kHz	603 kHz
CT201	T201

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
162 kHz	270 kHz
T203	CT203

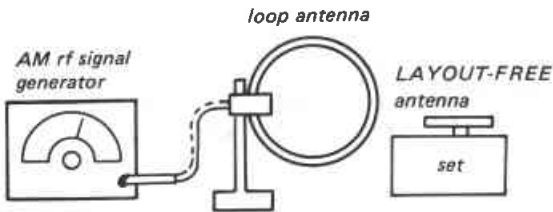


adjustment part	reading on VOM	frequency indication
T204	$1 \pm 0.2 \text{ V}$	144 kHz
CT204	$9 \pm 0.4 \text{ V}$	288 kHz

LW FREQUENCY COVERAGE ADJUSTMENT

AM TUNED INDICATION LIGHTING LEVEL ADJUSTMENT

BAND select switch: LW
Procedure:



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

1. Set loop antenna so that the LAYOUT-FREE antenna input level becomes 2.5mV/m.
2. Adjust RV302 so that the LED lights up.

SECTION 4
DIAGRAMS

• Semiconductor Lead Layouts

LA1265
LA3401

(Top view)

2SA1345
2SC634SP
2SC3402

LA5666

2SD880

TC9172P

(Top view)

2SK246-GR3

TC9302AF-018

(Top view)

KV1236Z

2SA1175

S1VB20

2SC380TM-Y
2SC3112-B

1SS132

4-1. MOUNTING DIAGRAM

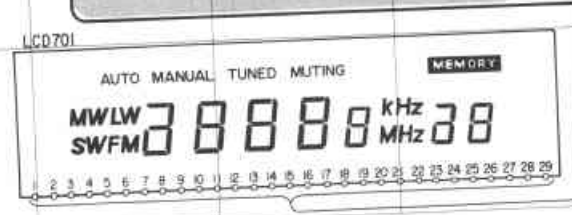
Note:

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

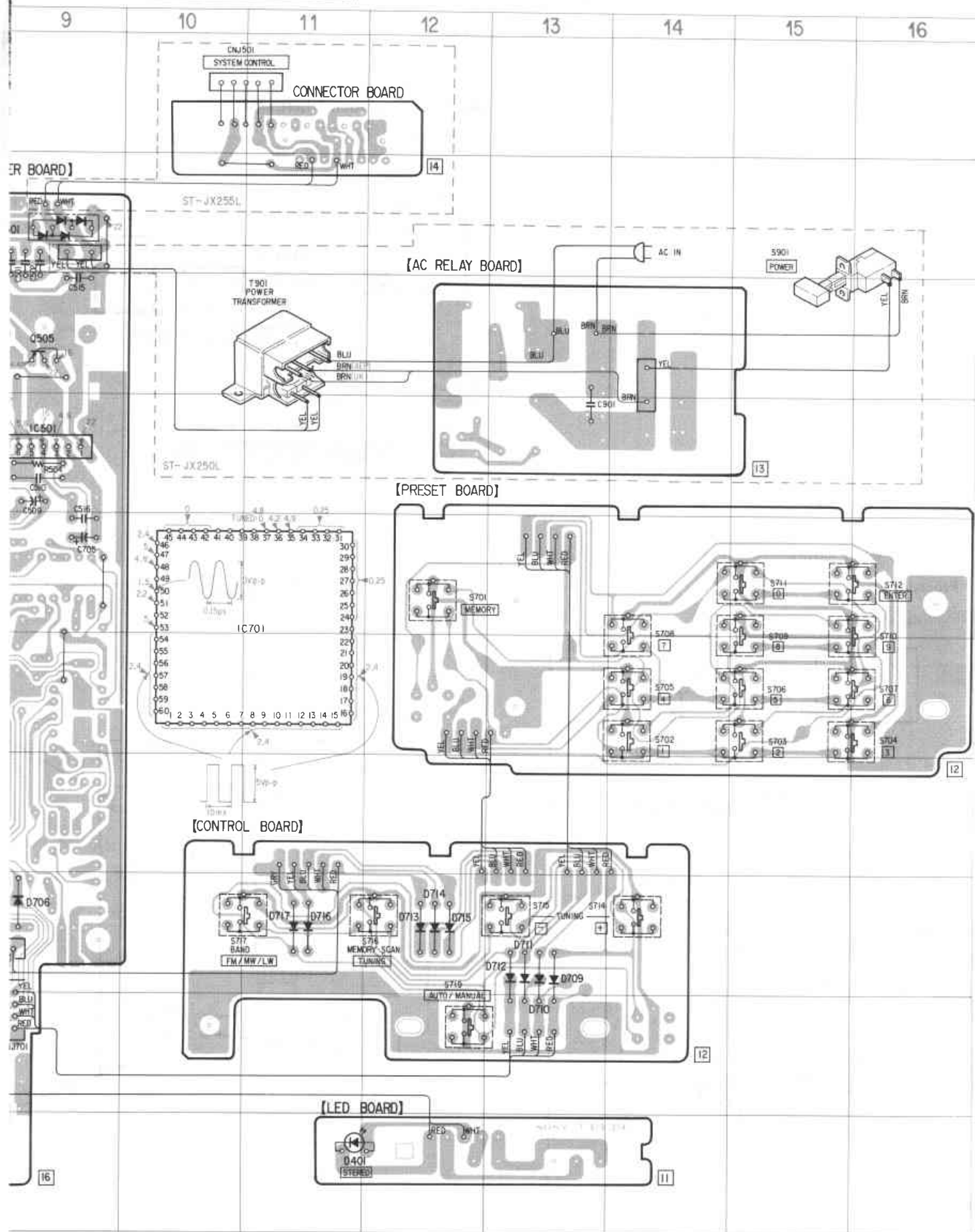
- : parts extracted from the component side.
- : indicates side identified with part number.

• SEMICONDUCTOR LOCATION

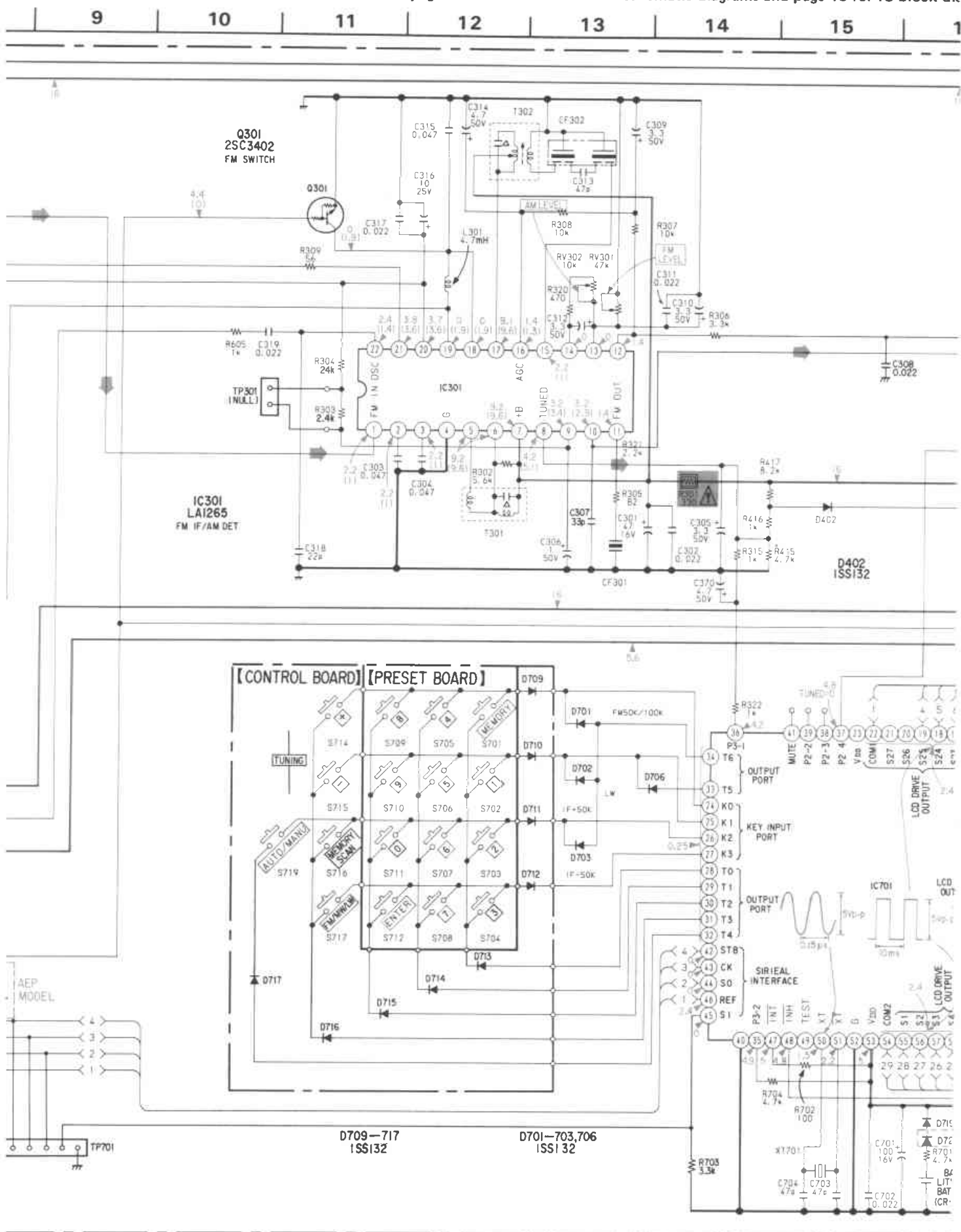
Ref. No.	Location	Ref. No.	Location
IC301	H-4	D301-A	D-3
IC401	G-6	D301-B	D-4
IC501	D-9	D302	D-3
IC601	C-6	D303-A	E-3
IC701	I-8	D303-B	E-4
		D401	J-11
Q101	D-5	D402	H-6
Q102	D-5	D403	E-7
Q201	F-2	D404	E-7
Q202	F-2	D405	F-7
Q203	G-2	D501	B-9
Q204	F-4	D701	H-8
Q205	F-4	D702	H-8
Q206	G-4	D703	H-8
Q301	G-4	D706	H-9
Q401	E-7	D709	H-13
Q402	E-7	D710	H-13
Q403	E-7	D711	H-13
Q502	D-7	D712	H-13
Q503	E-7	D713	H-12
Q504	D-7	D714	H-12
Q505	C-9	D715	H-12
Q601	C-7	D716	H-11
Q602	C-7	D717	H-11
Q603	B-6	D718	G-8
Q604	B-7	D719	I-7
		D723	I-6



ST-JX250L/JX255L









ST-JX250L/JX255L

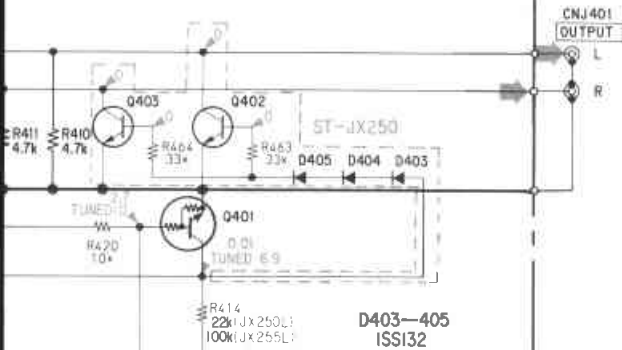
24

25

26

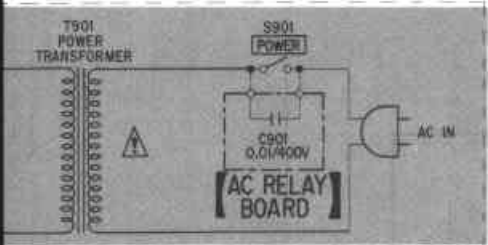
27

Q402,403
2SC2458
AUDIO OUTPUT
MUTING

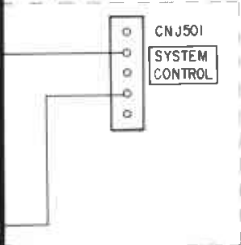


Q401
2SC3402
AUDIO MUTING
SWITCH

ST-JX250L



ST-JX255L



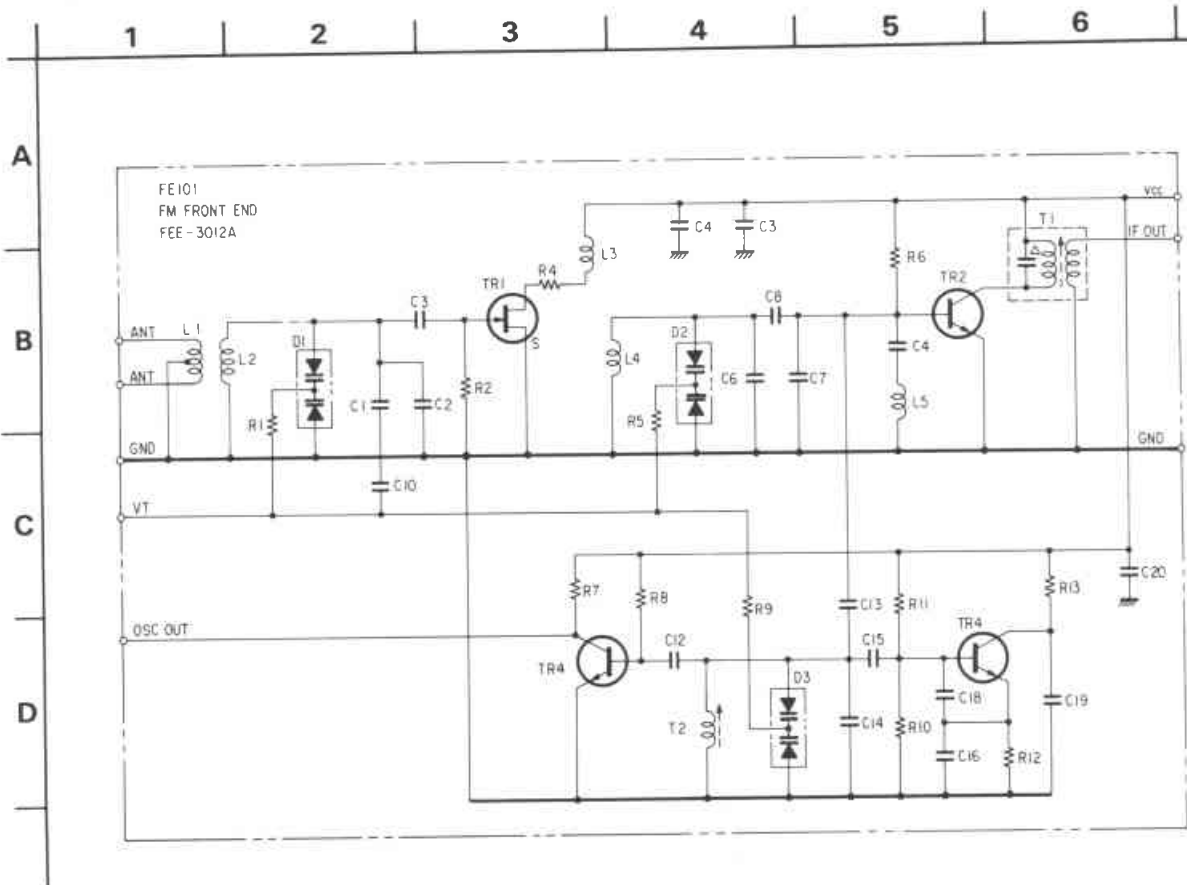
Notes:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV 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.
- : signal path.
- : internal component.
- : nonflammable resistor.
- : 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.
- Waveforms are taken to ground in detuned mode by using oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Switch

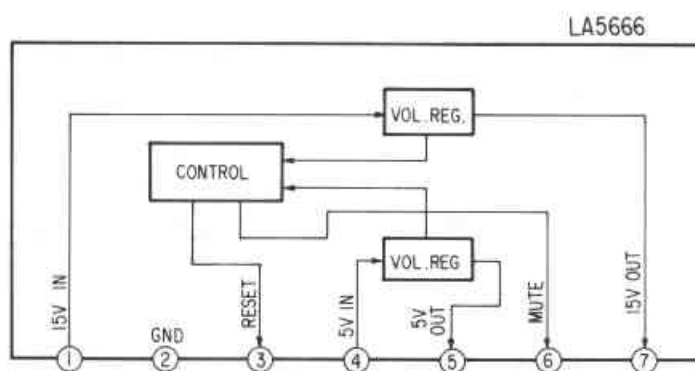
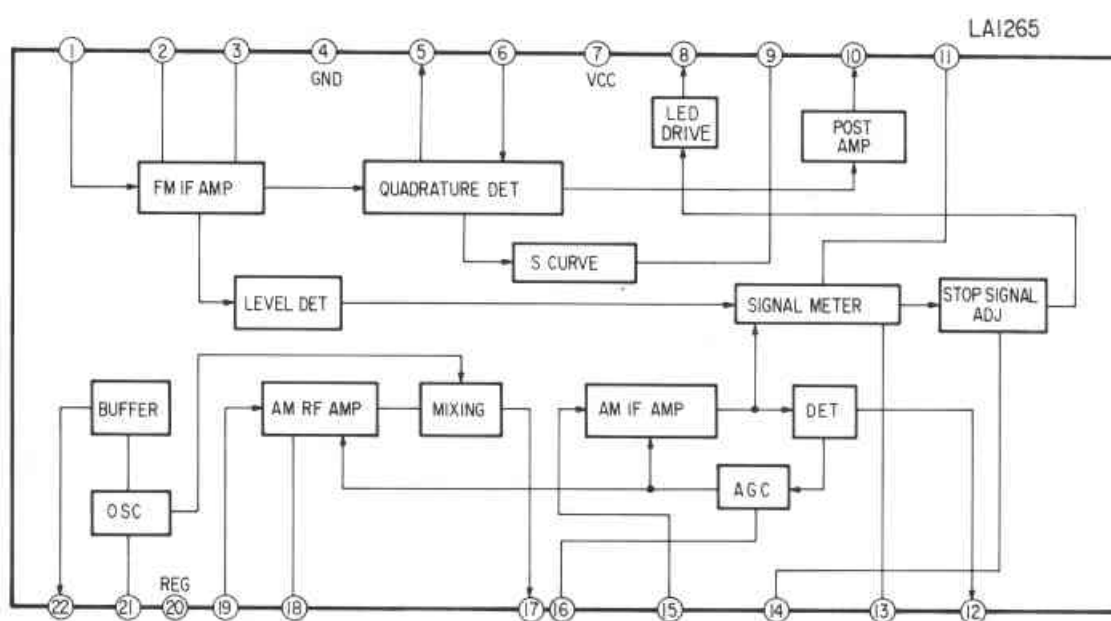
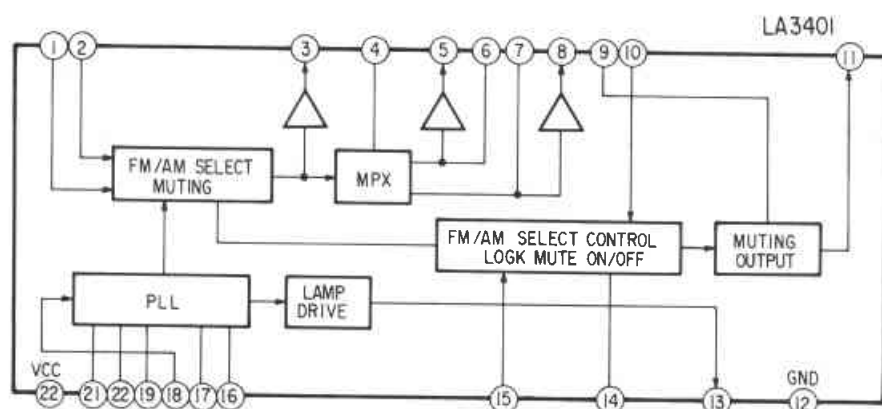
Ref. No.	Switch	Position
S701	MEMORY	OFF
S702	1	OFF
S703	2	OFF
S704	3	OFF
S705	4	OFF
S706	5	OFF
S707	6	OFF
S708	7	OFF
S709	8	OFF
S710	9	OFF
S711	0	OFF
S712	ENTER	OFF
S714	+	OFF
S715	-	OFF
S716	MEMORY SCAN	OFF
S717	FM/MW/LW	OFF
S719	AUTO/MANU	OFF
S901	POWER	OFF

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

4-3. FM FRONT END SCHEMATIC DIAGRAMS



4.4. IC BLOCK DIAGRAMS



SECTION 5 EXPLODED VIEWS AND PARTS LIST

NOTE:

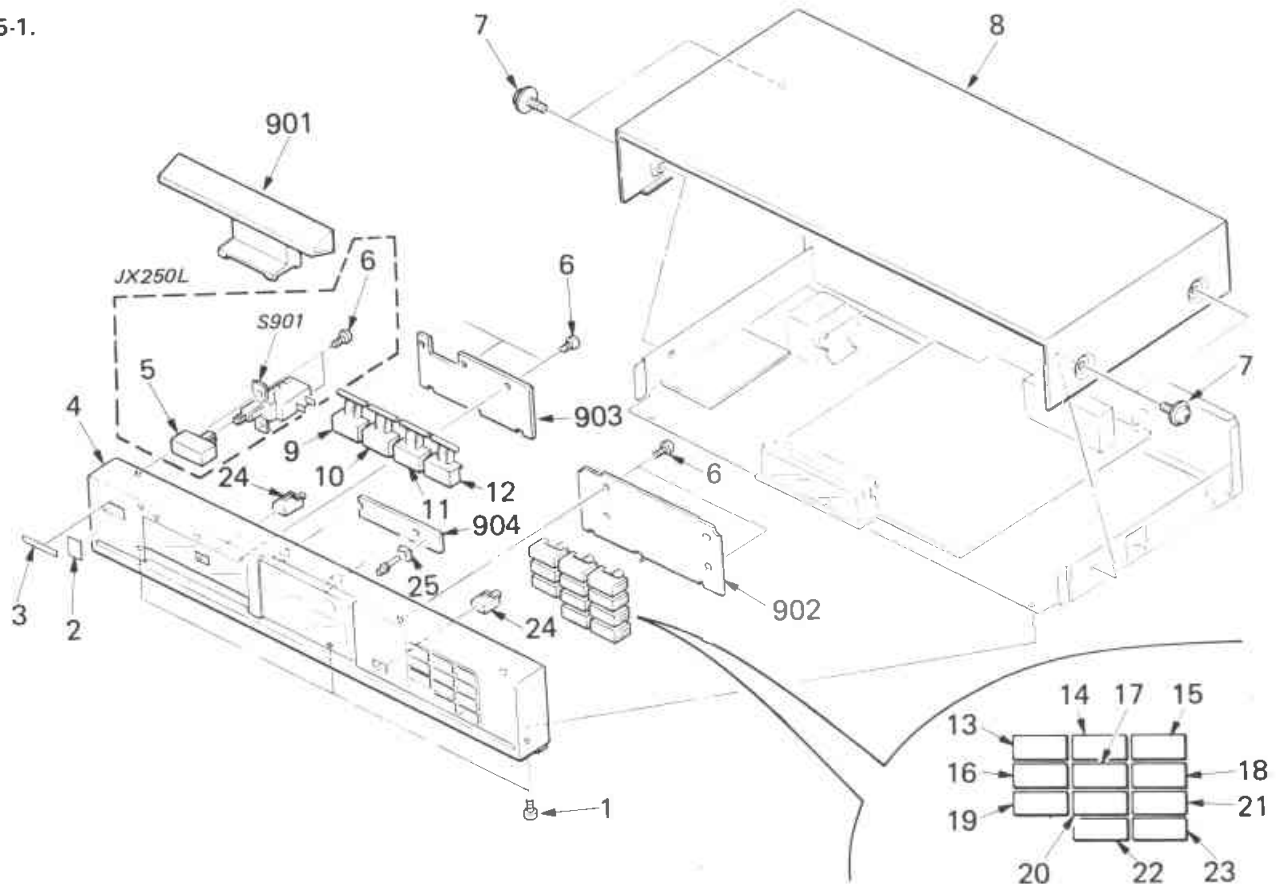
The mechanical parts with no reference number in the exploded views are not supplied.

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.

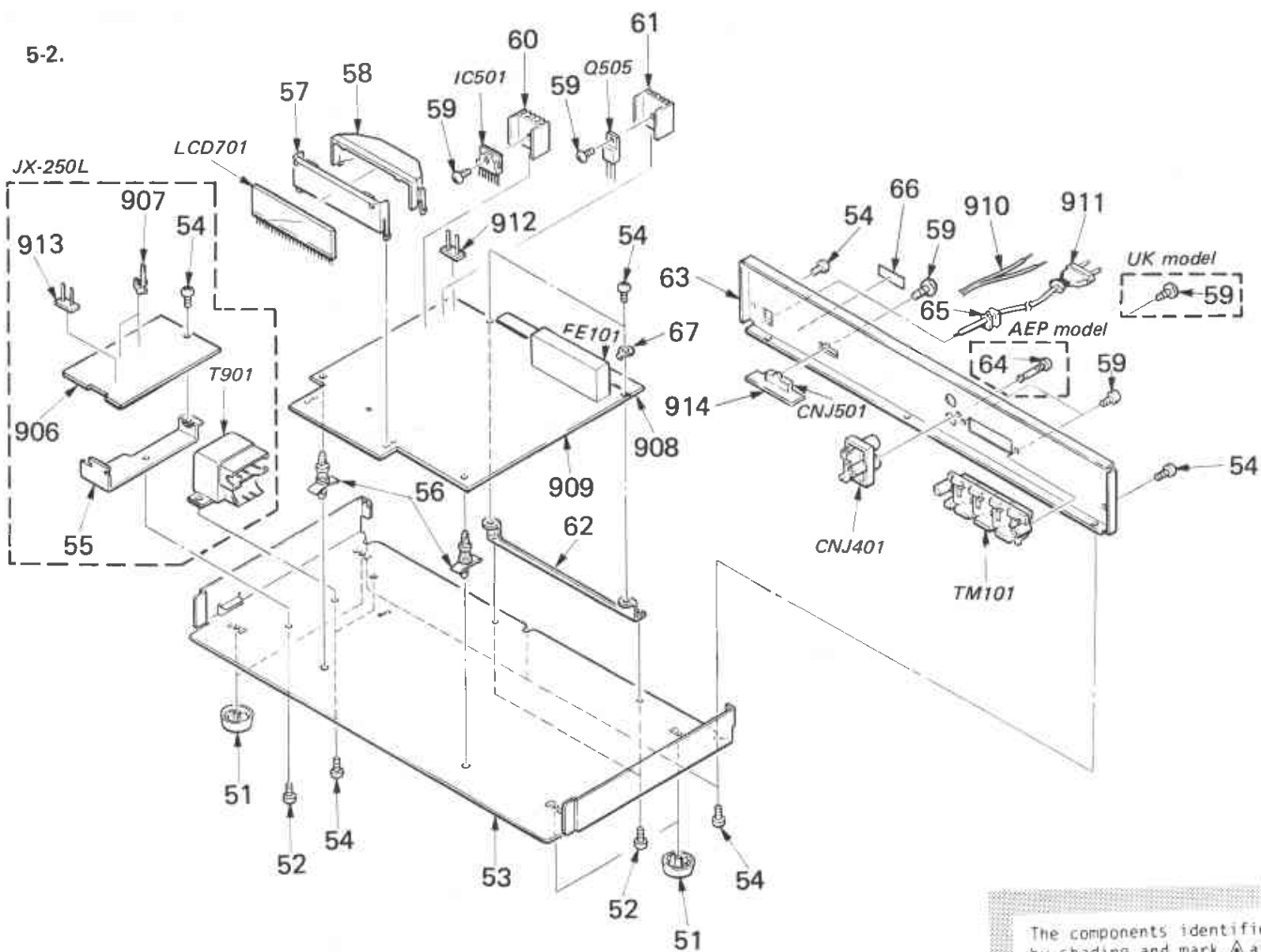
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

5-1.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	7-682-148-01	SCREW +BVTT 3X8 (S)		15	4-917-032-21	KNOB, PUSH (3)	
2	3-703-710-41	(ST-JX255L)...STICKER, SONY SYMBOL (12)		16	4-917-032-31	KNOB, PUSH (4)	
	3-703-713-41	(ST-JX250L)...STICKER, SONY SYMBOL (10)		17	4-917-032-41	KNOB, PUSH (5)	
3	3-701-690-00	(UK)...LABEL (MADE IN JAPAN)		18	4-917-032-51	KNOB, PUSH (6)	
4	X-4905-248-1	(ST-JX250L)...PANEL ASSY, FRONT		19	4-917-032-61	KNOB, PUSH (7)	
	X-4905-255-1	(ST-JX255L)...PANEL ASSY, FRONT		20	4-917-032-71	KNOB, PUSH (8)	
5	3-332-417-11	(ST-JX250L)...KNOB (POWER), PUSH		21	4-917-032-81	KNOB, PUSH (9)	
6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		22	4-917-032-91	KNOB, PUSH (0)	
7	7-682-147-09	SCREW, M3 CASE		23	4-917-033-01	KNOB, PUSH (ENTER)	
8	4-905-463-41	CASE		24	4-905-275-01	KNOB, PUSH	
9	4-917-031-11	KNOB, PUSH (FM/AM/LW)		25	*4-905-297-01	CUSHION, LAMP	
10	4-917-031-21	KNOB, PUSH (PRESET TU)		901	1-402-082-11	ANTENNA, FERRITE-ROD (LW/MW/SW)	
11	4-917-031-31	KNOB, PUSH (-)		902	*1-618-866-11	PC BOARD, PRESET	
12	4-917-031-41	KNOB, PUSH (+)		903	*1-618-867-11	PC BOARD, CONTROL	
13	4-917-032-01	KNOB, PUSH (1)		904	*1-618-354-11	PC BOARD, LED	
14	4-917-032-11	KNOB, PUSH (2)		S901	 1-553-318-51	(ST-JX250L)...SWITCH, PUSH (AC POWER)(1 KEY)	

5-2.



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

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	X-3701-069-0	FOOT ASSY, M.F		906	*1-618-869-11	(ST-JX250L)...PC BOARD, AC RELAY	
52	7-682-147-01	SCREW +BVTT 3X6 (S)		907	1-535-416-00	(ST-JX250L)...TERMINAL	
53	*4-904-481-11	CHASSIS		908	*1-618-352-11	PC BOARD, ANTENNA	
54	7-682-148-01	SCREW +BVTT 3X8 (S)					
55	*4-902-812-01	(ST-JX250L)...HOLDER, FUSE PC BOARD		909	*A-4351-518-A	(UK).....MOUNTED PCB, TUNER	
56	*3-703-353-05	SUPPORT, PC BOARD			*A-4351-602-A	(ST-JX250L:AEP)...MOUNTED PCB, TUNER	
57	*4-909-633-01	ILLUMINATOR			*A-4351-604-A	(ST-JX255L).....MOUNTED PCB, TUNER	
58	*4-904-515-01	HOUSE, LAMP		910	△.1-556-560-00	(UK)....CORD, POWER	
59	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		911	△.1-558-944-11	(ST-JX250L:AEP)...CORD, POWER	
60	*4-363-146-51	HEAT SINK, V.OUT		912	*1-535-115-00	(ST-JX250L)...TERMINAL	
61	*4-363-146-41	HEAT SINK, V.OUT		913	*1-535-139-00	(ST-JX250L)...BASE POST 19MM (10MM PITCH) 2P	
62	*4-905-284-01	FRAME					
63	*4-917-007-01	(ST-JX255L).....PANEL, BACK		914	*1-618-353-11	(ST-JX255L)...PC BOARD, CONNECTOR	
	*4-917-008-21	(ST-JX250L:AEP)...PANEL, BACK		CNJ401	1-507-807-00	JACK, PIN 2P (OUTPUT)	
	*4-917-008-41	(UK).....PANEL, BACK		CNJ501	1-562-067-00	(ST-JX255L)...PLUG, CONNECTOR 5P	
64	3-703-473-00	(AEP)...SCREW, TERMINAL		FE101	1-463-609-11	FRONT END, FM (FEE-3012A)	
65	*3-703-244-00	(ST-JX250L)...BUSHING (2104), CORD		LCD701	1-807-453-21	DISPLAY PANEL, LIQUID CRYSTAL	
66	3-703-079-21	(UK)....LABEL, CAUTION (BACK)		T901	△.1-448-422-11	(ST-JX250L)...TRANSFORMER, POWER	
67	*4-904-446-01	(UK)....PLATE, GROUND		TM101	1-536-708-00	TERMINAL BOARD, PUSH 4P (ANTENNA)	

SECTION 6 ELECTRICAL PARTS LIST

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.

CAPACITORS:

MF:μF, PF:μF.

RESISTORS

All resistors are in ohms.

F: nonflammable

COILS

MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

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	1-402-082-11	ANTENNA, FERRITE-ROD (LW/MW/SW)
902	*1-618-866-11	PC BOARD, PRESET
903	*1-618-867-11	PC BOARD, CONTROL
904	*1-618-354-11	PC BOARD, LED
906	*1-618-869-11	(ST-JX250L)...PC BOARD, AC RELAY
907	1-535-416-00	(ST-JX250L)...TERMINAL
908	*1-618-352-11	PC BOARD, ANTENNA
909	*A-4351-518-A	(UK).....MOUNTED PCB, TUNER
	*A-4351-602-A	(ST-JX250L:AEP)...MOUNTED PCB, TUNER
	*A-4351-604-A	(ST-JX255L).....MOUNTED PCB, TUNER
910	 1-556-560-00	(UK)....CORD, POWER
911	 1-558-944-11	(ST-JX250L:AEP)...CORD, POWER
912	*1-535-115-00	(ST-JX250L)...TERMINAL
913	*1-535-139-00	(ST-JX250L)...BASE POST 19MM (10MM PITCH) 2P
914	*1-618-353-11	(ST-JX255L)...PC BOARD, CONNECTOR
915	*1-562-250-00	SOCKET, CONNECTOR 5P
916	*1-562-327-00	(AEP)...SOCKET, CONNECTOR 3P
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	1-161-494-00	CERAMIC 0.022MF 30% 25V
C105	1-161-494-00	CERAMIC 0.022MF 30% 25V
C106	1-161-494-00	CERAMIC 0.022MF 30% 25V
C201	1-161-494-00	CERAMIC 0.022MF 30% 25V
C202	1-102-951-00	CERAMIC 15PF 5% 50V
C203	1-104-294-11	POLYSTYRENE 470PF 5% 50V
C204	1-101-006-00	CERAMIC 0.047MF 50V
C205	1-161-494-00	CERAMIC 0.022MF 30% 25V
C206	1-101-888-00	CERAMIC 68PF 5% 50V
C207	1-161-494-00	CERAMIC 0.022MF 30% 25V
C208	1-102-816-00	CERAMIC 120PF 5% 50V
C209	1-104-060-00	POLYSTYRENE 200PF 5% 50V
C210	1-161-374-11	CERAMIC 0.0015MF 30% 16V
C211	1-102-120-00	CERAMIC 0.0018MF 10% 50V
C212	1-161-494-00	CERAMIC 0.022MF 30% 25V
C213	1-101-006-00	CERAMIC 0.047MF 50V
C236	1-102-951-00	CERAMIC 15PF 5% 50V
C301	1-123-332-00	ELECT 47MF 20% 16V
C302	1-161-494-00	CERAMIC 0.022MF 30% 25V
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	1-123-380-00	ELECT 1MF 20% 50V
C307	1-162-211-31	CERAMIC 33PF 5% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C308	1-161-494-00	CERAMIC 0.022MF 30% 25V
C309	1-123-382-00	ELECT 3.3MF 20% 50V
C310	1-123-382-00	ELECT 3.3MF 20% 50V
C311	1-161-494-00	CERAMIC 0.022MF 30% 25V
C312	1-123-382-00	ELECT 3.3MF 20% 50V
C313	1-162-215-31	CERAMIC 47PF 5% 50V
C314	1-123-369-00	ELECT 4.7MF 20% 50V
C315	1-101-006-00	CERAMIC 0.047MF 50V
C316	1-123-356-00	ELECT 10MF 20% 25V
C317	1-161-494-00	CERAMIC 0.022MF 30% 25V
C318	1-162-207-31	CERAMIC 22PF 5% 50V
C319	1-161-494-00	CERAMIC 0.022MF 30% 25V
C370	1-123-369-00	ELECT 4.7MF 20% 50V
C401	1-108-583-00	MYLAR 0.015MF 5% 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	1-123-380-00	ELECT 1MF 20% 50V
C415	1-123-380-00	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	1-161-494-00	CERAMIC 0.022MF 30% 25V
C419	1-123-332-00	ELECT 47MF 20% 16V
C425	1-102-121-00	CERAMIC 0.0022MF 10% 50V
C426	1-102-121-00	CERAMIC 0.0022MF 10% 50V
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	1-161-494-00	CERAMIC 0.022MF 30% 25V
C509	1-123-380-00	ELECT 1MF 20% 50V
C510	1-161-494-00	CERAMIC 0.022MF 30% 25V
C515	1-101-005-00	CERAMIC 0.022MF 50V
C516	1-101-005-00	CERAMIC 0.022MF 50V
C601	1-161-494-00	CERAMIC 0.022MF 30% 25V
C602	1-161-494-00	CERAMIC 0.022MF 30% 25V
C603	1-123-356-00	ELECT 10MF 20% 25V

ST-JX250L/JX255L

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C604	1-123-379-00	ELECT 0.47MF 20% 50V
C605	1-123-379-00	ELECT 0.47MF 20% 50V
C606	1-123-332-00	ELECT 47MF 20% 16V
C607	1-161-494-00	CERAMIC 0.022MF 30% 25V
C608	1-130-776-00	FILM 0.47MF 5% 63V
C609	1-124-463-00	ELECT 0.1MF 20% 50V
C610	1-101-005-00	CERAMIC 0.022MF 50V
C611	1-101-005-00	(AEP)...CERAMIC 0.022MF 50V
C612	1-101-005-00	(AEP)...CERAMIC 0.022MF 50V
C613	1-101-005-00	CERAMIC 0.022MF 50V
C701	1-123-333-00	ELECT 100MF 20% 16V
C702	1-161-494-00	CERAMIC 0.022MF 30% 25V
C703	1-101-880-00	CERAMIC 47PF 5% 50V
C704	1-101-880-00	CERAMIC 47PF 5% 50V
C705	1-123-369-00	(ST-JX250L)...ELECT 4.7MF 20% 50V
C710	1-161-494-00	CERAMIC 0.022MF 30% 25V
C901	1-161-744-00	CERAMIC 0.01MF 400V
CF101	1-567-389-11	FILTER, CERAMIC
CF102	1-567-389-11	FILTER, CERAMIC
CF301	1-527-981-00	FILTER, CERAMIC
CF302	1-527-937-00	FILTER, CERAMIC
CF401	1-567-250-11	OSCILLATOR, CERAMIC
CNJ401	1-507-807-00	JACK, PIN 2P (OUTPUT)
CNJ501	1-562-067-00	(ST-JX255L)...PLUG, CONNECTOR 5P
CNJ701	1-564-507-11	PLUG, CONNECTOR 4P
CNJ702	1-564-508-11	PLUG, CONNECTOR 5P
CT201	1-141-180-00	CAP, TRIMMER 15P
CT202	1-141-180-00	CAP, TRIMMER 15P
CT203	1-141-171-00	CAP, TRIMMER 20P
CT204	1-141-171-00	CAP, TRIMMER 20P
D301	8-719-902-79	DIODE KV1236Z
D302	8-719-940-76	DIODE 1SS132
D303	8-719-902-79	DIODE KV1236Z
D401	8-719-302-74	DIODE SEL2210W-C
D402	8-719-940-76	DIODE 1SS132
D403	8-719-940-76	(ST-JX250L)...DIODE 1SS132
D404	8-719-940-76	(ST-JX250L)...DIODE 1SS132
D405	8-719-940-76	(ST-JX250L)...DIODE 1SS132
D501	8-719-511-20	DIODE S1VB20
D701	8-719-940-76	DIODE 1SS132
D702	8-719-940-76	DIODE 1SS132
D703	8-719-940-76	DIODE 1SS132
D706	8-719-940-76	DIODE 1SS132
D709	8-719-940-76	DIODE 1SS132
D710	8-719-940-76	DIODE 1SS132
D711	8-719-940-76	DIODE 1SS132
D712	8-719-940-76	DIODE 1SS132
D713	8-719-940-76	DIODE 1SS132
D714	8-719-940-76	DIODE 1SS132
D715	8-719-940-76	DIODE 1SS132
D716	8-719-940-76	DIODE 1SS132
D717	8-719-940-76	DIODE 1SS132
D718	8-719-940-76	DIODE 1SS132
D719	8-719-940-76	DIODE 1SS132
D723	8-719-940-76	(AEP)...DIODE 1SS132
FE101	1-463-609-11	FRONT END, FM (FEE-3012A)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC301	8-759-801-81	IC LA1265
IC401	8-759-801-80	IC LA3401
IC501	8-759-802-61	IC LA5666
IC601	8-759-202-63	IC TC9172P
IC701	8-759-207-45	IC TC9302AF-018
L101	1-410-564-21	MICRO INDUCTOR 100UH
L209	1-410-568-21	MICRO INDUCTOR 220UH
L301	1-408-920-00	MICRO INDUCTOR 4.7MMH
L501	1-410-564-21	MICRO INDUCTOR 100UH
LCD701	1-807-453-21	DISPLAY PANEL, LIQUID CRYSTAL
PL501	1-518-611-11	LAMP, PILOT
PL502	1-518-611-11	LAMP, PILOT
Q101	8-729-201-96	TRANSISTOR 2SC380TM-Y
Q102	8-729-201-96	TRANSISTOR 2SC380TM-Y
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
Q301	8-729-806-28	TRANSISTOR 2SC3402
Q401	8-729-806-28	TRANSISTOR 2SC3402
Q402	8-729-600-27	(ST-JX250L)...TRANSISTOR 2SC634SP
Q403	8-729-600-27	(ST-JX250L)...TRANSISTOR 2SC634SP
Q502	8-729-806-28	TRANSISTOR 2SC3402
Q503	8-729-600-27	TRANSISTOR 2SC634SP
Q504	8-729-806-20	TRANSISTOR 2SA1345
Q505	8-729-288-02	TRANSISTOR 2SD880
Q601	8-729-202-67	TRANSISTOR 2SK246-GR3
Q602	8-729-201-84	TRANSISTOR 2SC3112-B
Q603	8-729-202-67	TRANSISTOR 2SK246-GR3
Q604	8-729-201-84	TRANSISTOR 2SC3112-B
R101	1-247-704-11	CARBON 220 5% 1/4W F
R102	1-249-411-11	CARBON 330 5% 1/6W
R103	1-249-411-11	CARBON 330 5% 1/6W
R105	1-249-432-11	CARBON 18K 5% 1/6W
R106	1-249-411-11	CARBON 330 5% 1/6W
R107	1-249-414-11	CARBON 560 5% 1/6W
R108	1-249-411-11	CARBON 330 5% 1/6W
R109	1-249-434-11	CARBON 27K 5% 1/6W
R201	1-215-483-00	CARBON 390K 5% 1/6W
R202	1-249-441-11	CARBON 100K 5% 1/6W
R203	1-249-425-11	CARBON 4.7K 5% 1/6W
R204	1-249-425-11	CARBON 4.7K 5% 1/6W
R205	1-249-429-11	CARBON 10K 5% 1/6W
R206	1-215-483-00	CARBON 390K 5% 1/6W
R207	1-249-441-11	CARBON 100K 5% 1/6W
R208	1-215-493-00	CARBON 1M 5% 1/6W
R209	1-249-441-11	CARBON 100K 5% 1/6W
R210	1-249-434-11	CARBON 27K 5% 1/6W
R211	1-249-433-11	CARBON 22K 5% 1/6W
R212	1-249-421-11	CARBON 2.2K 5% 1/6W
R213	1-249-433-11	CARBON 22K 5% 1/6W
R214	1-249-413-11	CARBON 470 5% 1/6W
R301	1-247-706-11	CARBON 330 5% 1/4W F
R302	1-247-849-00	CARBON 5.6K 5% 1/6W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R303	1-215-430-00	CARBON	2.4K	5%	1/6W	
R304	1-215-454-00	CARBON	24K	5%	1/6W	
R305	1-249-404-00	CARBON	82	5%	1/6W	
R306	1-249-423-11	CARBON	3.3K	5%	1/6W	
R307	1-249-429-11	CARBON	10K	5%	1/6W	
R308	1-249-429-11	CARBON	10K	5%	1/6W	
R309	1-249-402-11	CARBON	56	5%	1/6W	
R315	1-249-417-11	CARBON	1K	5%	1/6W	
R320	1-249-413-11	CARBON	470	5%	1/6W	
R322	1-249-417-11	CARBON	1K	5%	1/6W	
R402	1-249-425-11	CARBON	4.7K	5%	1/6W	
R403	1-249-429-11	CARBON	10K	5%	1/6W	
R404	1-247-885-00	CARBON	180K	5%	1/6W	
R405	1-247-885-00	CARBON	180K	5%	1/6W	
R406	1-247-883-00	CARBON	150K	5%	1/6W	
R407	1-247-883-00	CARBON	150K	5%	1/6W	
R408	1-249-425-11	CARBON	4.7K	5%	1/6W	
R409	1-249-425-11	CARBON	4.7K	5%	1/6W	
R410	1-249-425-11	CARBON	4.7K	5%	1/6W	
R411	1-249-425-11	CARBON	4.7K	5%	1/6W	
R412	1-249-441-11	CARBON	100K	5%	1/6W	
R413	1-247-715-11	CARBON	1.5K	5%	1/4W	
R414	1-249-433-11	(ST-JX250L)...CARBON	22K	5%	1/6W	
R414	1-249-441-11	(ST-JX255L)...CARBON	100K	5%	1/6W	
R415	1-249-425-11	CARBON	4.7K	5%	1/6W	
R416	1-249-417-11	CARBON	1K	5%	1/6W	
R417	1-249-428-11	CARBON	8.2K	5%	1/6W	
R418	1-247-849-00	CARBON	5.6K	5%	1/6W	
R419	△.1-247-701-11	CARBON	120	5%	1/4W	F
R420	1-249-429-11	CARBON	10K	5%	1/6W	
R463	1-249-435-11	(ST-JX250L)...CARBON	33K	5%	1/6W	
R464	1-249-435-11	(ST-JX255L)...CARBON	33K	5%	1/6W	
R502	△.1-206-452-00	METAL OXIDE	3.6	5%	2W	F
R504	1-249-437-11	CARBON	47K	5%	1/6W	
R506	1-249-429-11	CARBON	10K	5%	1/6W	
R602	1-249-417-11	CARBON	1K	5%	1/6W	
R603	1-249-417-11	CARBON	1K	5%	1/6W	
R604	1-249-417-11	CARBON	1K	5%	1/6W	
R605	1-249-417-11	CARBON	1K	5%	1/6W	
R606	△.1-247-700-11	CARBON	100	5%	1/4W	F
R607	1-249-437-11	CARBON	47K	5%	1/6W	
R608	1-249-414-11	CARBON	560	5%	1/6W	
R609	1-249-416-11	CARBON	820	5%	1/6W	
R610	1-249-410-11	CARBON	270	5%	1/6W	
R611	1-249-435-11	CARBON	33K	5%	1/6W	
R612	1-249-421-11	CARBON	2.2K	5%	1/6W	
R613	1-249-425-11	CARBON	4.7K	5%	1/6W	
R614	△.1-247-700-11	CARBON	100	5%	1/4W	F
R615	1-249-417-11	CARBON	1K	5%	1/6W	
R616	1-249-414-11	CARBON	560	5%	1/6W	
R617	1-249-418-11	CARBON	1.2K	5%	1/6W	
R618	1-249-410-11	CARBON	270	5%	1/6W	
R619	1-249-433-11	CARBON	22K	5%	1/6W	
R620	1-249-421-11	CARBON	2.2K	5%	1/6W	

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ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R621	1-249-425-11	CARBON	4.7K	5%	1/6W	
R701	1-249-425-11	CARBON	4.7K	5%	1/6W	
R702	1-249-405-11	CARBON	100	5%	1/6W	
R703	1-249-423-11	CARBON	3.3K	5%	1/6W	
R704	1-249-425-11	CARBON	4.7K	5%	1/6W	
RV301	1-228-996-00	RES, ADJ, CARBON	47K			
RV302	1-230-630-11	RES, ADJ, CARBON	10K			
RV401	1-228-998-00	RES, ADJ, CARBON	220K			
S701	1-554-303-21	SWITCH, KEY BOARD (MEMORY)				
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 (0)				
S712	1-554-303-21	SWITCH, KEY BOARD (ENTER)				
S714	1-554-303-21	SWITCH, KEY BOARD (+)				
S715	1-554-303-21	SWITCH, KEY BOARD (-)				
S716	1-554-303-21	SWITCH, KEY BOARD (MEMORY SCAN)				
S717	1-554-303-21	SWITCH, KEY BOARD (FM/MW/LW)				
S719	1-554-303-21	SWITCH, KEY BOARD (AUTO/MANU)				
S901	△.1-553-318-51	(ST-JX250L)...SWITCH, PUSH (AC POWER)(1 KEY)				
T201	1-402-080-11	COIL, ANT (MW)				
T202	1-406-089-11	COIL (OSC)				
T203	1-402-071-11	COIL (ANT)				
T204	1-406-207-11	COIL, LW (OSC)				
T301	1-404-659-11	COIL, DISCRIMINATOR				
T302	1-404-535-11	COIL (WITH IFT)				
T901	△.1-448-422-11	(ST-JX250L)...TRANSFORMER, POWER				
TM101	1-536-708-00	TERMINAL BOARD, PUSH 4P (ANTENNA)				
TP301	*1-560-060-00	PIN, CONNECTOR 2P				
TP701	*1-560-063-00	PIN, CONNECTOR 5P				
XT701	1-567-125-00	(ST-JX255L)...VIBRATOR, CRYSTAL				
XT701	1-567-767-11	(ST-JX250L)...VIBRATOR, CRYSTAL				

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-501-351-21	(ST-JX250L)...ANTENNA, FEEDER
1-558-787-21	(ST-JX250L)...CORD, CONNECTION
3-701-630-00	(ST-JX250L)...BAG, POLYETHYLENE
3-769-041-11	(ST-JX250L).....MANUAL, INSTRUCTION
3-769-041-41	(ST-JX250L:AEP)...MANUAL, INSTRUCTION
4-876-352-00	SHEET, PROTECTION
4-905-240-01	(ST-JX250L)...CUSHION, LOWER
4-905-242-01	(ST-JX250L)...CUSHION (LEFT), UPPER
4-905-243-01	(ST-JX250L)...CUSHION (RIGHT), UPPER
4-917-009-41	(ST-JX250L)...INDIVIDUAL CARTON

