

ST-D50L

SERVICE MANUAL

AEP Model
UK Model



This Set The Tuner Section
In XO-D50

SPECIFICATIONS

Tuner section

System MF stereo, FM/AM Superheterodyne tuner

FM tuner section

Tuning range 87.5 to 108 MHz
Antenna terminals 75 ohms unbalanced

MW/LW tuner section

	MW	LW
Tuning range	522 to 1,611 kHz (Italian model) 531 to 1,602 kHz (Other European countries)	144 to 288 kHz (Italian model) 153 to 281 kHz (Other European countries)
Antenna	AM Loop antenna, External antenna terminal	
Intermediate frequency	450 kHz	

Dimensions Approx. 355×70×310 mm (W/h/d)
(14×2¹¹/₁₆×12¹/₄ inches)
Incl. projecting parts and controls

Weight Apprpx. 1.9 kg (4 lb 3 oz)

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SAFETY-RELATED COMPONENT WARNING!!

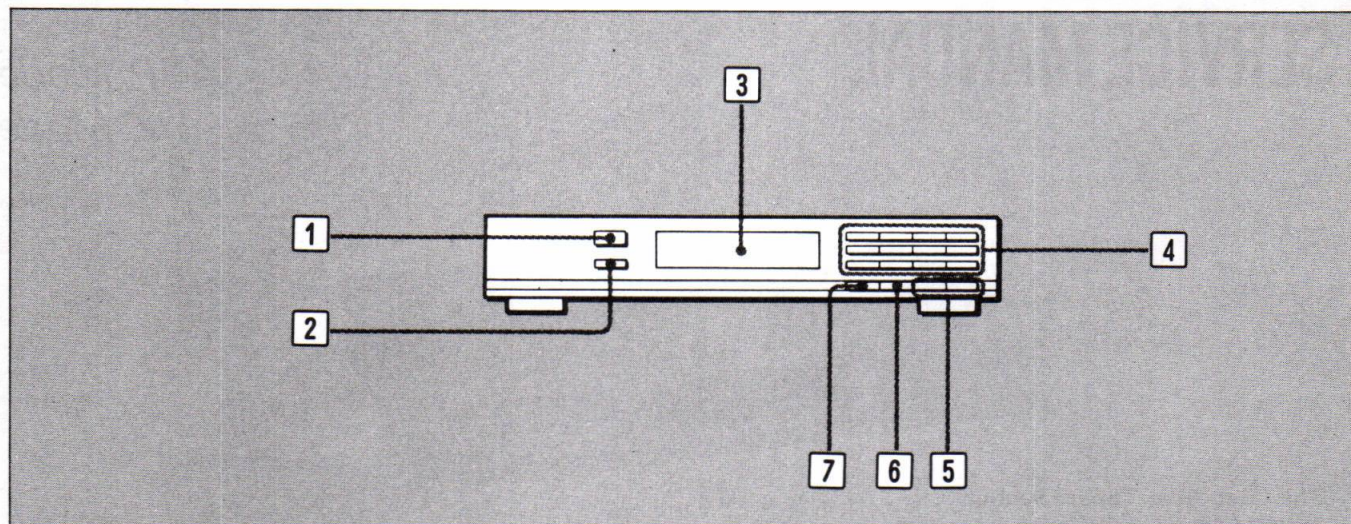
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



FM STEREO/FM/MW/LW TUNER
SONY®

SECTION 1 GENERAL

1-1. PARTS IDENTIFICATION



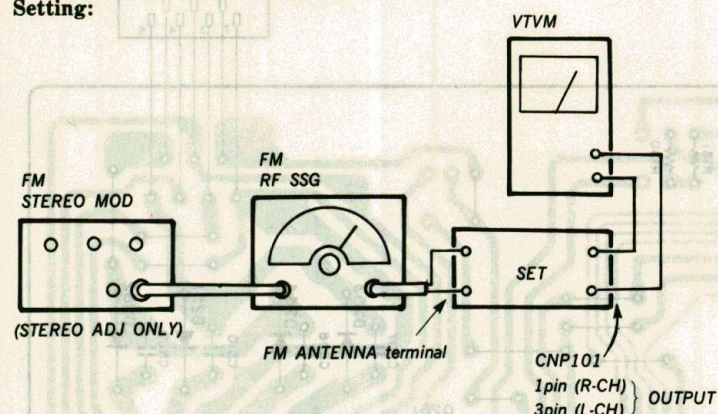
- 1 BAND selector
ST-D50L: FM, MW, LW
ST-D50S: FM, MW, SW1, SW2
- 2 AUTO/MANUAL mode selector
- 3 Band/frequency display
- 4 PRESET buttons
- 5 TUNING +/- buttons (station selector)
- 6 MEMORY SCAN button
- 7 MEMORY button

SECTION 2 ELECTRICAL ADJUSTMENTS

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

2-1. FM SECTION ADJUSTMENT

Setting:



Carrier frequency : 98MHz
Modulation : 1kHz
Deviation : 40kHz (MONO only)
Output level : 66dB μ (at NULL/STEREO Adjustment)
: 25dB μ (at TUNED Adjustment)

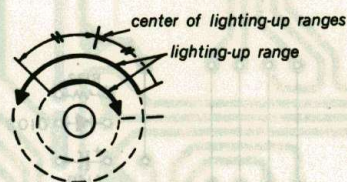
Stereo MOD setting
Sub channel : 38kHz
Deviation : 16.25kHz
Pilot signal : 19kHz
Deviation : 7.5kHz
Modulation : 1kHz—16.25kHz deviation

1. Discriminator Alignment (NULL check)

- Push the TUNING (+, -) button for 98MHz.
- Adjust T251 for 0V reading on the VTVM.
test point $\approx$ TP101

2. Tuned Lighting-on Adjustment

- Push the TUNING (+, -) button for 98MHz.
- Tune RV103 clockwise or counterclockwise and memorize the lighting-up range of tuned indicator.
- Adjust RV103 at the center of the lighting-up range of both turns as shown below.



3. Stereo Separation Adjustment

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV101 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV101 for minimum reading.

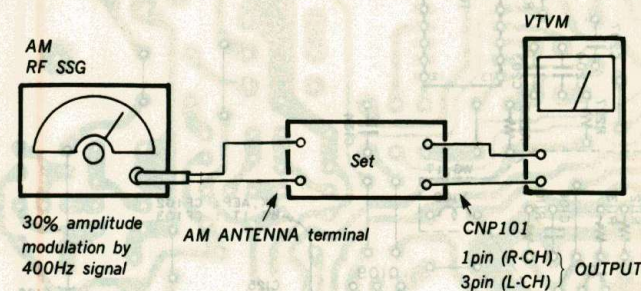
L-CH Stereo separation : Ⓐ—Ⓑ

R-CH Stereo separation : Ⓒ—Ⓓ

The separation of both channels should be equal.
Specification : 35dB

2-2. AM SECTION ADJUSTMENTS

Setting:



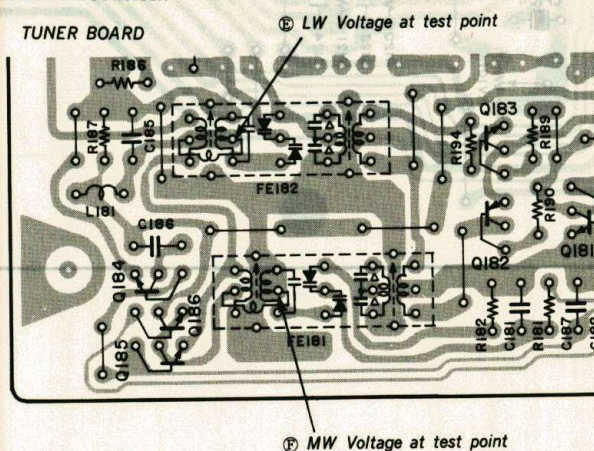
1. LW Frequency Coverage Adjustment

Frequency display in set	AEP, UK, WG model	153kHz	281kHz
	IT model	144kHz	288kHz
Adjustment part		FE182(OSC)	
Voltage at test point		VT Ⓓ 1V $\pm$ 0.2V	

2. MW Frequency Coverage Adjustment

Frequency display in set	AEP, UK, WG model	531kHz	1602kHz
	IT model	522kHz	1611kHz
Adjustment part		FE181(OSC)	
Voltage test point		VT Ⓓ 1V $\pm$ 0.2V	

Adjustment Location:



3. LW Tracking Adjustment

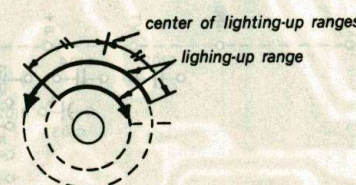
Frequency display in set	AEP, UK, WG model	153kHz
	IT model	144kHz
Adjustment part		FE182 (ANT)
Adjustment for a maximum reading on VTVM.		

4. MW Tracking Adjustment

Frequency display in set	AEP, UK, WG model	531kHz
	IT model	522kHz
Adjustment part		FE181 (ANT)
Adjust for a maximum reading on VTVM.		

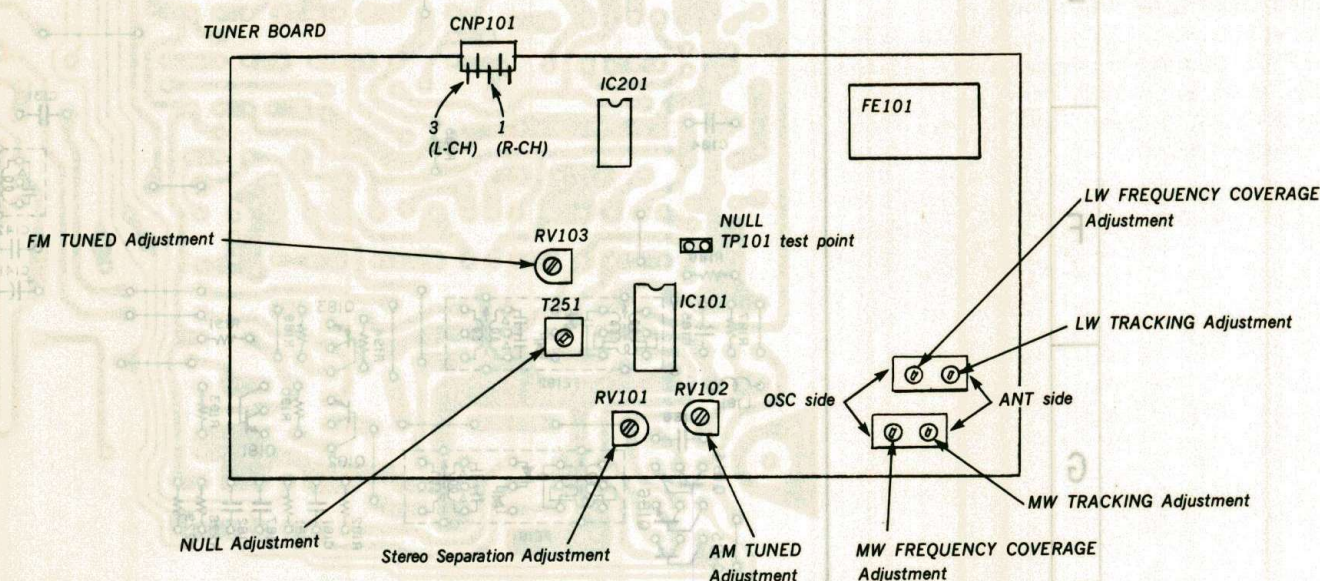
5. Tuned Lighting-on Adjustment

- Push the TUNING (+, -) button for LW: 281kHz (AEP/UK, WG model) or 288kHz (IT model).
- Turn RV102 clockwise or counter clockwise and memorize the lighting-up range of tuned indicator.
- Adjust RV102 at the center of the lighting-up range of both turns as shown below.



At SSG OUTPUT 68dB μ

Adjustment Location:



SECTION 3 DIAGRAMS

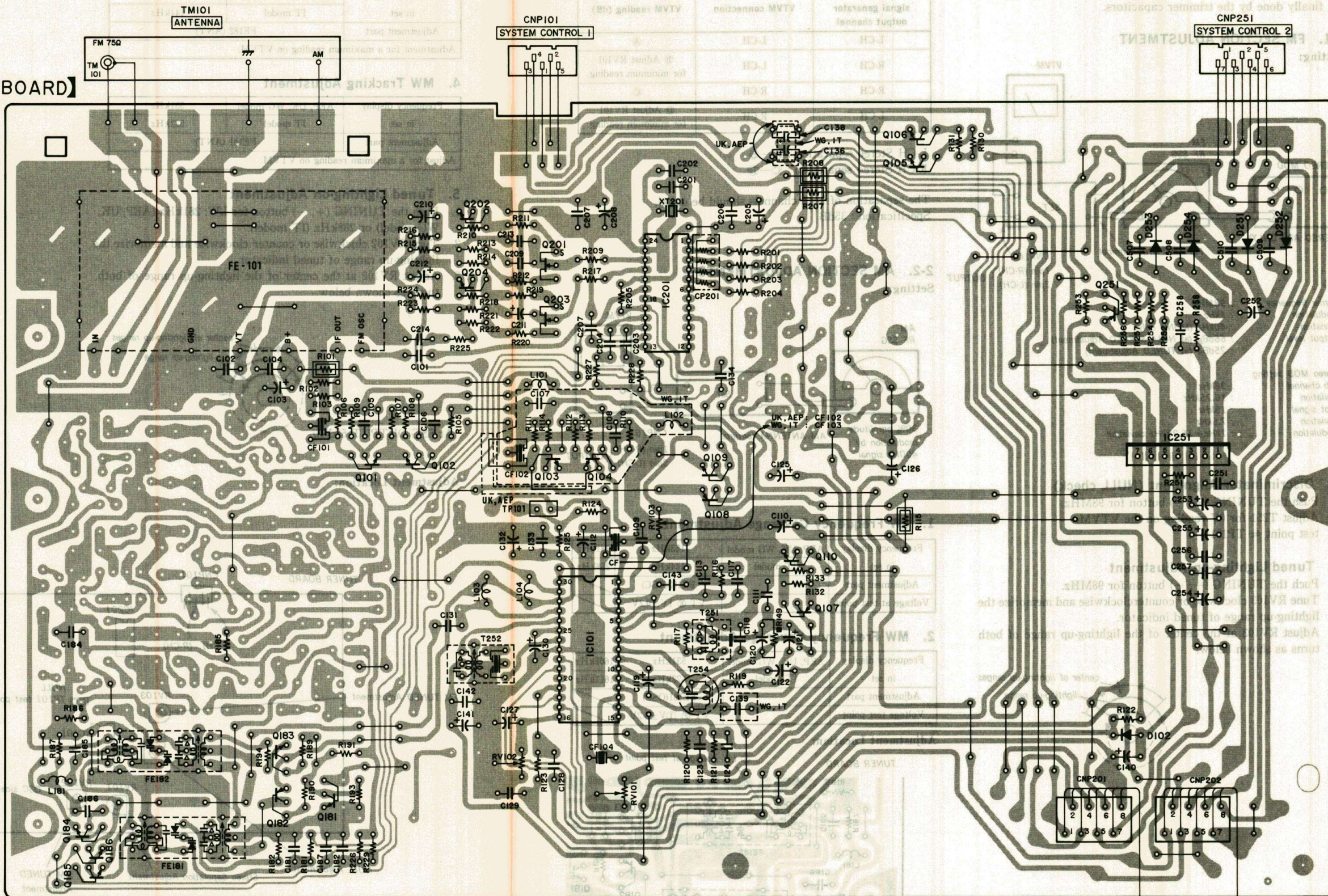
ST-D50L ST-D50L

● Semiconductor
Location

3-1. PRINTED WIRING BOARD—TUNER SECTION— ● Refer to page 10 for Semiconductor Lead Layouts.

Ref. No.	Location
D102	F-10
D251	C-11
D252	C-11
D253	C-10
D254	C-10
IC101	F-6
IC201	C-6
IC251	C-10
Q101	D-4
Q102	D-5
Q103	D-5
Q104	D-6
Q105	B-8
Q106	B-8
Q107	E-7
Q108	E-7
Q109	D-7
Q110	E-7
Q181	G-4
Q182	G-3
Q183	F-3
Q184	G-2
Q185	G-2
Q186	G-2
Q201	C-5
Q202	B-5
Q203	C-5
Q204	C-5
Q251	C-10

【TUNER BOARD】



Note on Mounting Diagram:

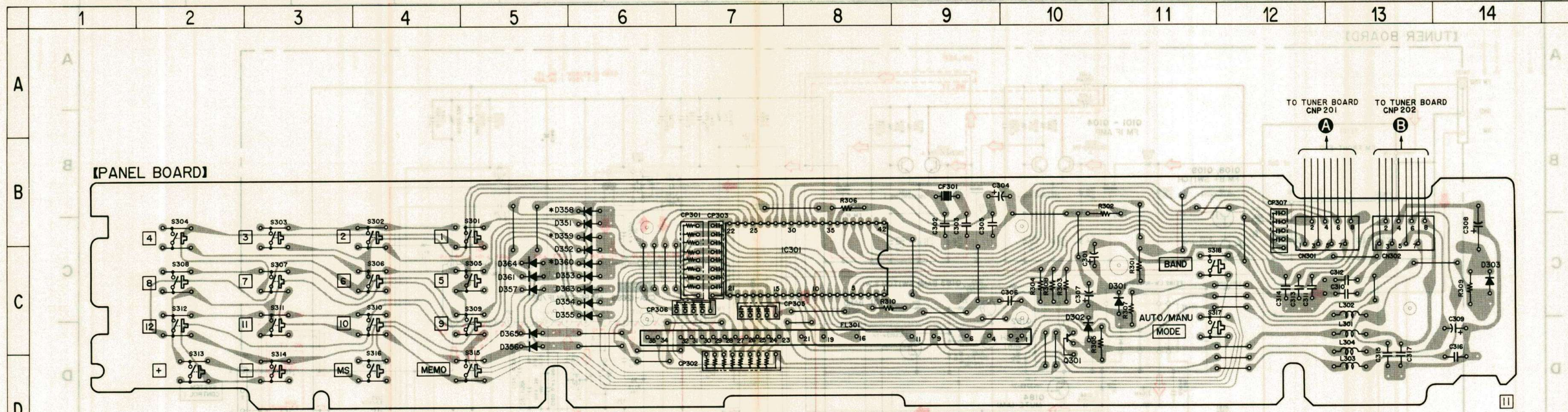
- : parts extracted from the component side.
- WG: West Germany Model
- IT: Italian Model

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PRINTED WIRING BOARD Panel section



3-3. PRINTED WIRING BOARD—Panel section—



Note on Schematic Diagram: tuner section

- 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.
- $\triangle$: internal component.
- $\square$: nonflammable resistor.
- --- : B+ bus.
- --- : B- bus.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- () : MW
- < > : LW
- Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$). Voltage variations may be noted due to normal production tolerances.
- WG: West Germany Model
- IT: Italian Model

Note on Mounting Diagram:

- $\circ$: parts extracted from the component side.

	AEP	WG	UK	IT
D358 A				
D359 B				
D360 C				

- WG: West Germany Model
- IT: Italian Model

Semiconductor Location

Ref. No.	Location
D301	C-11
D302	C-11
D303	C-13
D351	B-6
D352	C-6
D353	C-6
D354	C-6
D355	C-6
D356	C-6
D357	C-6
D358	B-6
D359	B-6
D360	C-6
D361	C-5
D363	C-6
D364	C-5
D365	C-5
IC301	C-8

Note on Schematic Diagram:

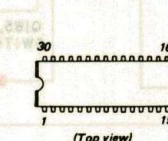
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Switch

Ref. No.	Switch	Position
S301	PRESET STATIONS 1	OFF
S302	PRESET STATIONS 2	OFF
S303	PRESET STATIONS 3	OFF
S304	PRESET STATIONS 4	OFF
S305	PRESET STATIONS 5	OFF
S306	PRESET STATIONS 6	OFF
S307	PRESET STATIONS 7	OFF
S308	PRESET STATIONS 9	OFF
S309	PRESET STATIONS 9	OFF
S310	PRESET STATIONS 10	OFF
S311	PRESET STATIONS 11	OFF
S312	PRESET STATIONS 12	OFF
S313	TUNING (+)	OFF
S314	TUNING (-)	OFF
S315	MEMORY	OFF
S316	MEMORY SCAN	OFF
S317	AUTO/MANUAL MODE	OFF
S318	BAND	OFF

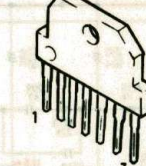
- WG: West Germany Model
- IT: Italian Model
- Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$). Voltage variations may be noted due to normal production tolerances.

Semiconductor Lead Layouts

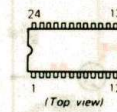
CXA1269S



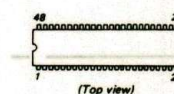
LA 5667



LC7217



TMP47C441AN-1662



2SA1317SU

2SA1348
2SC2669
2SC3400
2SC3402
2SC3820



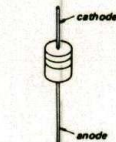
2SC2785E



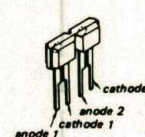
2SK772E



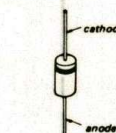
GMA01



KV1236

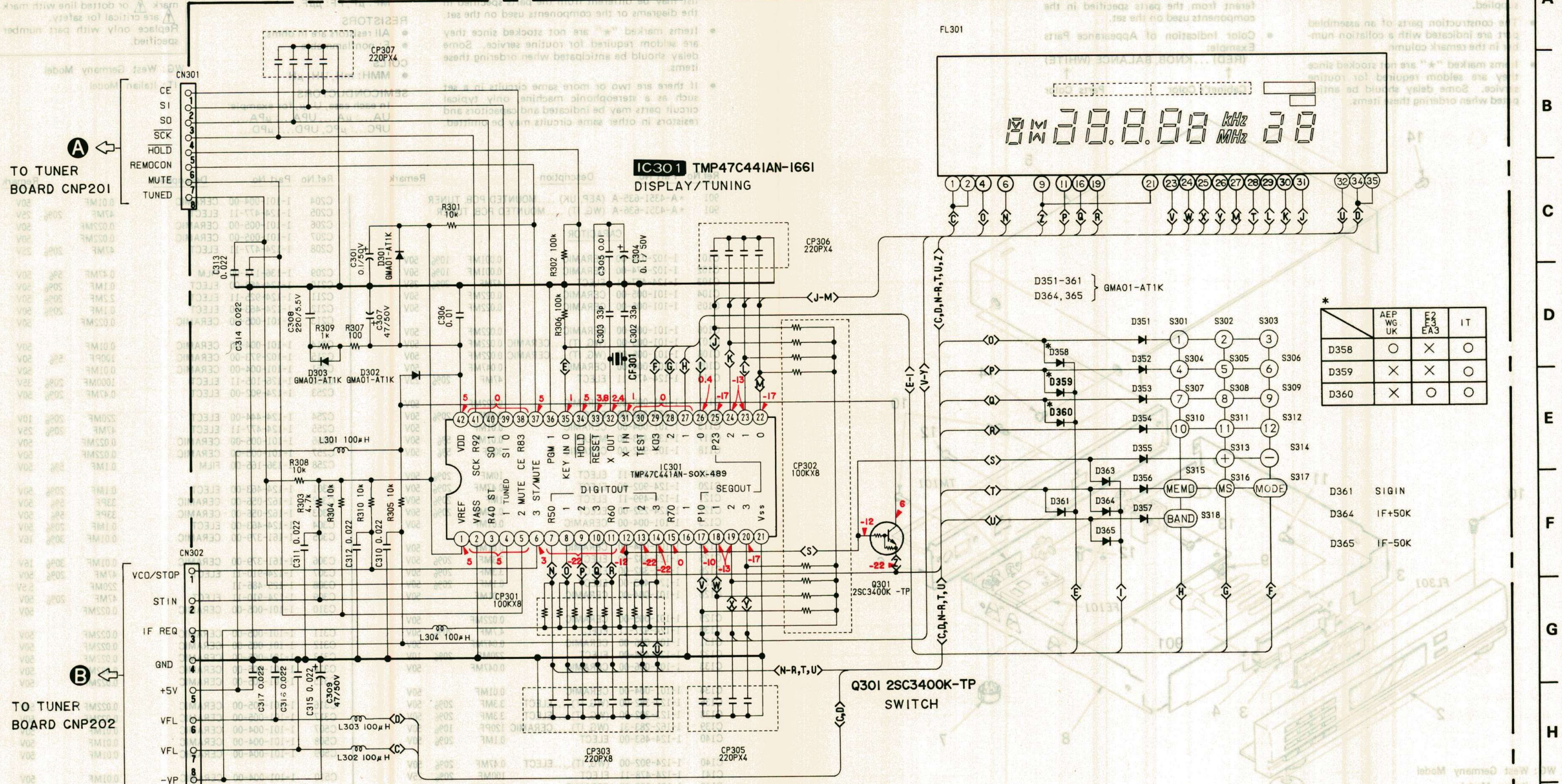


10E2



3-4. SCHEMATIC DIAGRAM—Panel section

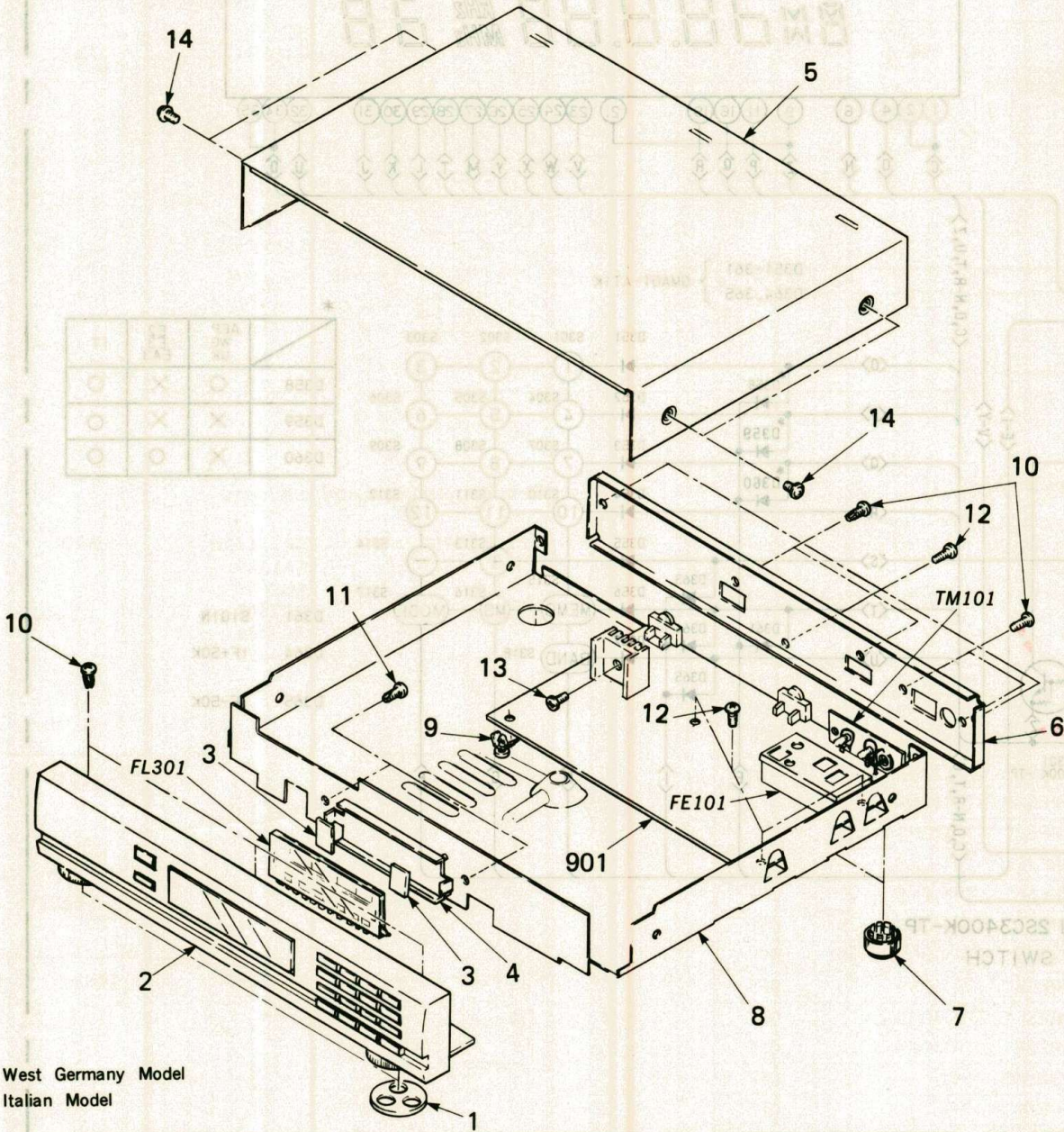
【PANEL BOARD】



SECTION 4
EXPLODED VIEW

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



WG: West Germany Model
IT: Italian Model

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
1	4-921-906-01	FELT		9	*4-835-627-00	FASTENER, (A)	
2	X-4924-516-1	(AEP,UK, IT)PANEL ASSY, FRONT		10	7-685-646-79	SCREW +BVTP 3×8 TYPE N-S	
	X-4924-518-1	(WG)PANEL ASSY, FRONT		11	7-685-134-11	SCREW +PTP 2.6×8	
3	*4-921-941-11	CUSHION (FL)		12	7-682-548-04	SCREW +BVTT 3×8 (S)	
4	*4-923-103-01	HOLDER, FL TUBE		13	7-685-647-79	SCREW BVTP 3×10 TYPE2 IT-3	
5	4-924-514-31	(AEP, UK, IT)CASE		14	3-704-366-01	SCREW (CASE) (M3X8)	
	4-924-514-21	(WG)CASE		901	*A-4351-635-A	(AEP, UK) MOUNTED PCB, TUNER	
6	*4-924-502-01	(AEP, UK, IT)PANEL, BACK			*A-4351-636-A	(WG, IT) MOUNTED PCB, TUNER	
	*4-924-502-11	(WG)PANEL, BACK		FE101	1-463-963-11	FRONT END (FM 3 GANG)	
7	X-4921-901-1	FOOT ASSY		FL301	1-519-453-11	INDICATOR TUBE, FLUORESCENT	
8	*4-921-903-41	CHASSIS		TM101	*1-537-138-21	TERMINAL BOARD (ANT)	

SECTION 5
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 P.

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  or dotted line with mark  are critical for safety. Replace only with part number specified.

WG: West Germany Model
IT: Italian Model

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
901	*A-4351-635-A	(AEP, UK) MOUNTED PCB, TUNER		C204	1-101-004-00	CERAMIC	0.01MF 50V
901	*A-4351-636-A	(WG, IT) MOUNTED PCB, TUNER		C205	1-124-477-11	ELECT	47MF 20% 25V
CAPACITOR				C206	1-101-005-00	CERAMIC	0.022MF 50V
C101	1-102-074-00	CERAMIC	0.001MF 10% 50V	C207	1-101-005-00	CERAMIC	0.022MF 50V
C102	1-102-074-00	CERAMIC	0.001MF 10% 50V	C208	1-124-477-11	ELECT	47MF 20% 25V
C103	1-124-477-11	ELECT	47MF 20% 25V	C209	1-136-173-00	FILM	0.47MF 5% 50V
C104	1-101-005-00	CERAMIC	0.022MF 50V	C210	1-124-463-00	ELECT	0.1MF 20% 50V
C105	1-101-005-00	CERAMIC	0.022MF 50V	C211	1-124-925-11	ELECT	2.2MF 20% 50V
C106	1-101-005-00	CERAMIC	0.022MF 50V	C212	1-124-463-00	ELECT	0.1MF 20% 50V
C107	1-101-005-00	(WG, IT) CERAMIC	0.022MF 50V	C213	1-101-005-00	CERAMIC	0.022MF 50V
C108	1-101-005-00	(WG, IT) CERAMIC	0.022MF 50V	C214	1-101-004-00	CERAMIC	0.01MF 50V
C109	1-101-006-00	CERAMIC	0.047MF 50V	C215	1-102-973-00	CERAMIC	100PF 5% 50V
C110	1-124-477-11	ELECT	47MF 20% 25V	C251	1-101-004-00	CERAMIC	0.01MF 50V
C111	1-101-005-00	CERAMIC	0.022MF 50V	C252	1-126-105-11	ELECT	1000MF 20% 35V
C112	1-123-382-00	ELECT	3.3MF 20% 50V	C253	1-124-902-00	ELECT	0.47MF 20% 50V
C113	1-101-004-00	CERAMIC	0.01MF 50V	C254	1-124-444-00	ELECT	220MF 20% 10V
C117	1-130-483-00	MYLAR	0.01MF 5% 50V	C255	1-124-477-11	ELECT	47MF 20% 25V
C118	1-102-962-00	CERAMIC	30PF 5% 50V	C256	1-101-005-00	CERAMIC	0.022MF 50V
C119	1-123-875-11	ELECT	10MF 20% 50V	C257	1-101-005-00	CERAMIC	0.022MF 50V
C120	1-124-902-00	ELECT	0.47MF 20% 50V	C258	1-136-165-00	FILM	0.1MF 5% 50V
C121	1-124-499-11	ELECT	1MF 20% 50V	C301	1-124-463-00	ELECT	0.1MF 20% 50V
C122	1-124-252-00	ELECT	0.33MF 20% 50V	C302	1-162-056-00	CERAMIC	33PF 5% 50V
C123	1-101-004-00	CERAMIC	0.01MF 50V	C303	1-162-056-00	CERAMIC	33PF 5% 50V
C124	1-101-004-00	CERAMIC	0.01MF 50V	C304	1-124-463-00	ELECT	0.1MF 20% 50V
C125	1-123-382-00	ELECT	3.3MF 20% 50V	C305	1-161-379-00	CERAMIC	0.01MF 30% 16V
C126	1-123-382-00	ELECT	3.3MF 20% 50V	C306	1-161-379-00	CERAMIC	0.01MF 30% 16V
C127	1-124-463-00	ELECT	0.1MF 20% 50V	C307	1-124-910-11	ELECT	47MF 20% 50V
C128	1-101-004-00	CERAMIC	0.01MF 50V	C308	1-125-486-11	ELECT	220MF 5.5V
C129	1-101-005-00	CERAMIC	0.022MF 50V	C309	1-124-910-11	ELECT	47MF 20% 50V
C130	1-124-927-11	ELECT	4.7MF 20% 50V	C310	1-101-005-00	CERAMIC	0.022MF 50V
C131	1-101-006-00	CERAMIC	0.047MF 50V	C311	1-101-005-00	CERAMIC	0.022MF 50V
C132	1-124-444-00	ELECT	220MF 20% 10V	C312	1-101-005-00	CERAMIC	0.022MF 50V
C133	1-101-006-00	CERAMIC	0.047MF 50V	C313	1-101-005-00	CERAMIC	0.022MF 50V
C134	1-101-004-00	CERAMIC	0.01MF 50V	C314	1-101-005-00	CERAMIC	0.022MF 50V
C136	1-123-382-00	(WG, IT) ELECT	3.3MF 20% 50V	C315	1-101-005-00	CERAMIC	0.022MF 50V
C138	1-123-382-00	(WG, IT) ELECT	3.3MF 20% 50V	C316	1-101-005-00	CERAMIC	0.022MF 50V
C139	1-162-283-31	(WG, IT) CERAMIC	120PF 10% 50V	C317	1-101-005-00	CERAMIC	0.022MF 50V
C140	1-124-463-00	ELECT	0.1MF 20% 50V	C507	1-101-004-00	CERAMIC	0.01MF 50V
C140	1-124-902-00	(WG, IT) ELECT	0.47MF 20% 50V	C508	1-101-004-00	CERAMIC	0.01MF 50V
C141	1-124-478-11	ELECT	100MF 20% 25V	C509	1-101-004-00	CERAMIC	0.01MF 50V
C142	1-101-005-00	CERAMIC	0.022MF 50V	C510	1-101-004-00	CERAMIC	0.01MF 50V
C143	1-101-005-00	CERAMIC	0.022MF 50V	CF101	1-567-389-11	FILTER, CERAMIC	
C181	1-101-005-00	CERAMIC	0.022MF 50V	CF102	1-567-389-11	FILTER, CERAMIC	
C182	1-101-005-00	CERAMIC	0.022MF 50V	CF103	1-567-389-11	(WG, IT) FILTER, CERAMIC	
C184	1-101-005-00	CERAMIC	0.022MF 50V	CF104	1-577-075-11	OSCILLATOR, CERAMIC	
C185	1-102-120-00	CERAMIC	0.0018MF 10% 50V	CF301	1-577-029-11	VIBRATOR, CERAMIC	
C186	1-161-041-00	CERAMIC	0.0015MF 10% 25V				
C187	1-101-005-00	CERAMIC	0.022MF 50V				
C201	1-101-884-00	CERAMIC	56PF 5% 50V	CNP101	*1-566-856-11	SOCKET, CONNECTOR 5P	
C202	1-101-880-00	CERAMIC	47PF 5% 50V	CNP201	*1-566-168-11	HOUSING, CONNECTOR 8P	
C203	1-101-004-00	CERAMIC	0.01MF 50V	CNP202	*1-566-168-11	HOUSING, CONNECTOR 8P	
				CNP251	1-566-857-11	SOCKET, CONNECTOR 7P	
				CNP301	*1-566-168-11	HOUSING, CONNECTOR 8P	

Ref.No	Part No.	Description	Remark
CNP302	*1-566-168-11	HOUSING, CONNECTOR 8P	
CP201	1-233-125-11	COMPOSITION CIRCUIT BLOCK	
CP301	1-233-140-11	COMPOSITION CIRCUIT BLOCK	
CP302	1-233-140-11	COMPOSITION CIRCUIT BLOCK	
CP303	1-233-151-	COMPOSITION CIRCUIT BLOCK	
CP305	1-233-150-	COMPOSITION CIRCUIT BLOCK	
CP306	1-233-150-	COMPOSITION CIRCUIT BLOCK	
CP307	1-233-150-	COMPOSITION CIRCUIT BLOCK	
D102	1-806-937-11	DIODE GMA01	
D251	8-719-200-02	DIODE 10E2	
D252	8-719-200-02	DIODE 10E2	
D253	8-719-200-02	DIODE 10E2	
D254	8-719-200-02	DIODE 10E2	
D301	1-806-937-11	DIODE GMA01	
D302	1-806-937-11	DIODE GMA01	
D303	1-806-937-11	DIODE GMA01	
D351	1-806-937-11	DIODE GMA01	
D352	1-806-937-11	DIODE GMA01	
D353	1-806-937-11	DIODE GMA01	
D354	1-806-937-11	DIODE GMA01	
D355	1-806-937-11	DIODE GMA01	
D356	1-806-937-11	DIODE GMA01	
D357	1-806-937-11	DIODE GMA01	
D358	1-806-937-11	DIODE GMA01	
D359	1-806-937-11	(IT)....DIODE GMA01	
D360	1-806-937-11	(IT)....DIODE GMA01	
D361	1-806-937-11	DIODE GMA01	
D363	1-806-937-11	DIODE GMA01	
D364	1-806-937-11	DIODE GMA01	
D365	1-806-937-11	DIODE GMA01	
FE101	1-463-963-11	FRONT END (FM 3 GANG)	
FE181	1-235-936-11	ENCAPSULATED COMPONENT	
FE182	1-236-178-11	RF BLOCK, LW	
FL301	1-519-453-11	INDICATOR TUBE, FLUORESCENT	
IC101	8-759-805-50	IC CXA1269S	
IC201	8-759-820-10	IC LC7217	
IC251	8-759-820-09	IC LA5667	
IC301	8-759-230-49	IC TMP47C441AN-1662	
L101	1-410-564-41	INDUCTOR	
L102	1-410-564-41	(WG, IT)....INDUCTOR 100UH	
L103	1-408-920-00	INDUCTOR	
L181	1-410-568-21	INDUCTOR	
L301	1-410-564-21	INDUCTOR	
L302	1-410-564-21	INDUCTOR	
L303	1-410-564-21	INDUCTOR	
L304	1-410-564-21	INDUCTOR	
Q101	8-729-266-93	TRANSISTOR 2SC2669	
Q102	8-729-266-93	TRANSISTOR 2SC2669	
Q103	8-729-266-93	(WG, IT)....TRANSISTOR 2SC2669	
Q104	8-729-266-93	(WG, IT)....TRANSISTOR 2SC2669	
Q105	8-729-178-55	TRANSISTOR 2SC2785-E	
Q106	8-729-178-55	TRANSISTOR 2SC2785-E	
Q107	8-729-178-55	TRANSISTOR 2SC2785-E	
Q108	9-986-159-01	TRANSISTOR 2SA1348	
Q109	8-729-806-28	TRANSISTOR 2SC3402	
Q110	8-729-806-28	TRANSISTOR 2SC3402	
Q181	8-729-806-28	TRANSISTOR 2SC3402	
Q182	8-729-820-10	TRANSISTOR 2SA1317-SU	
Q183	8-729-178-55	TRANSISTOR 2SC2785-E	
Q184	8-729-806-28	TRANSISTOR 2SC3402	
Q185	8-729-806-28	TRANSISTOR 2SC3402	
Q186	8-729-806-28	TRANSISTOR 2SC3402	

Ref.No	Part No.	Description	Remark
Q201	8-729-820-12	TRANSISTOR 2SK772-E	
Q202	8-729-820-13	TRANSISTOR 2SC3820	
Q203	8-729-820-12	TRANSISTOR 2SK772-E	
Q204	8-729-820-13	TRANSISTOR 2SC3820	
Q251	8-729-820-10	TRANSISTOR 2SA1317	
Q301	8-729-806-34	TRANSISTOR 2SC3400	
RESISTOR			
R101	△1-247-704-11	CARBON 220	5% 1/4W F
R103	1-249-406-11	CARBON 120	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	(WG,IT)....CARBON 18K	5% 1/4W
R111	1-249-411-11	(WG,IT)....CARBON 330	5% 1/4W
R112	1-249-416-11	(WG,IT)....CARBON 820	5% 1/4W
R113	1-249-411-11	(WG,IT)....CARBON 330	5% 1/4W
R114	1-249-434-11	(WG,IT)....CARBON 27K	5% 1/4W
R115	△1-247-700-11	CARBON 100	5% 1/4W F
R116	1-249-432-11	CARBON 18K	5% 1/4W
R117	1-249-424-11	CARBON 3.9K	5% 1/4W
R119	1-215-438-00	CARBON 5.1K	5% 1/4W
R120	1-215-438-00	CARBON 5.1K	5% 1/4W
R121	1-215-438-00	CARBON 5.1K	5% 1/4W
R122	1-249-417-11	CARBON 1K	5% 1/4W
R123	1-249-437-11	CARBON 47K	5% 1/4W
R124	1-249-417-11	CARBON 1K	5% 1/4W
R125	1-249-426-11	CARBON 5.6K	5% 1/4W
R130	1-249-417-11	CARBON 1K	5% 1/4W
R131	1-249-417-11	CARBON 1K	5% 1/4W
R132	1-249-429-11	CARBON 10K	5% 1/4W
R133	1-249-429-11	CARBON 10K	5% 1/4W
R149	1-249-747-	CARBON 1.5M	5% 1/4W
R181	1-249-441-11	CARBON 100K	5% 1/4W
R182	1-249-437-11	CARBON 47K	5% 1/4W
R185	1-249-433-11	CARBON 22K	5% 1/4W
R186	1-249-437-11	CARBON 47K	5% 1/4W
R187	1-215-493-00	CARBON 1M	5% 1/4W
R189	1-249-433-11	CARBON 22K	5% 1/4W
R190	1-249-432-11	CARBON 18K	5% 1/4W
R191	1-249-433-11	CARBON 22K	5% 1/4W
R193	1-249-431-11	CARBON 15K	5% 1/4W
R194	1-249-401-11	CARBON 47	5% 1/4W
R201	1-249-417-11	CARBON 1K	5% 1/4W
R202	1-249-417-11	CARBON 1K	5% 1/4W
R203	1-249-417-11	CARBON 1K	5% 1/4W
R204	1-249-417-11	CARBON 1K	5% 1/4W
R205	1-249-425-11	CARBON 4.7K	5% 1/4W
R207	△1-247-696-11	CARBON 47	5% 1/4W F
R208	△1-247-700-11	CARBON 100	5% 1/4W F
R209	1-249-425-11	CARBON 4.7K	5% 1/4W
R210	1-249-410-11	CARBON 270	5% 1/4W
R211	1-249-418-11	CARBON 1.2K	5% 1/4W
R212	1-249-414-11	CARBON 560	5% 1/4W
R213	1-249-433-11	CARBON 22K	5% 1/4W
R214	1-249-421-11	CARBON 2.2K	5% 1/4W
R215	1-249-425-11	CARBON 4.7K	5% 1/4W
R216	1-249-405-11	CARBON 100	5% 1/4W
R217	1-249-423-11	CARBON 3.3K	5% 1/4W
R218	1-249-410-11	CARBON 270	5% 1/4W
R219	1-249-418-11	CARBON 1.2K	5% 1/4W
R220	1-249-414-11	CARBON 560	5% 1/4W
R221	1-249-425-11	CARBON 4.7K	5% 1/4W

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

Ref.No	Part No.	Description	Remark		
R222	1-249-421-11	CARBON	2.2K	5%	1/4W
R223	1-249-425-11	CARBON	4.7K	5%	1/4W
R224	1-249-405-11	CARBON	100	5%	1/4W
R225	1-249-429-11	CARBON	10K	5%	1/4W
R226	1-249-429-11	CARBON	10K	5%	1/4W
R227	1-249-429-11	CARBON	10K	5%	1/4W
R228	1-249-429-11	CARBON	10K	5%	1/4W
R229	1-249-425-11	CARBON	4.7K	5%	1/4W
R251	1-249-429-11	CARBON	10K	5%	1/4W
R252	1-249-405-11	CARBON	100	5%	1/4W
R253	1-249-429-11	CARBON	10K	5%	1/4W
R254	1-249-413-11	CARBON	470	5%	1/4W
R256	1-249-429-11	CARBON	10K	5%	1/4W
R257	1-249-441-11	CARBON	100K	5%	1/4W
R258	1-249-393-11	CARBON	10	5%	1/4W
R301	1-249-429-11	CARBON	10K	5%	1/4W
R302	1-249-441-11	CARBON	100K	5%	1/4W
R303	1-249-425-11	CARBON	4.7K	5%	1/4W
R304	1-249-429-11	CARBON	10K	5%	1/4W
R305	1-249-429-11	CARBON	10K	5%	1/4W
R306	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-249-405-11	CARBON	100	5%	1/4W
R308	1-249-429-11	CARBON	10K	5%	1/4W
R309	1-249-417-11	CARBON	1K	5%	1/4W
R310	1-249-429-11	CARBON	10K	5%	1/4W
RV101	1-228-993-00	RES, ADJ, CARBON 4.7K			
RV102	1-228-995-00	RES, ADJ, CARBON 22K			
RV103	1-228-995-00	RES, ADJ, CARBON 22K			
S301	1-554-303-21	SWITCH, KEY BOARD (1)			
S302	1-554-303-21	SWITCH, KEY BOARD (2)			
S303	1-554-303-21	SWITCH, KEY BOARD (3)			
S304	1-554-303-21	SWITCH, KEY BOARD (4)			
S305	1-554-303-21	SWITCH, KEY BOARD (5)			
S306	1-554-303-21	SWITCH, KEY BOARD (6)			
S307	1-554-303-21	SWITCH, KEY BOARD (7)			
S308	1-554-303-21	SWITCH, KEY BOARD (8)			
S309	1-554-303-21	SWITCH, KEY BOARD (9)			
S310	1-554-303-21	SWITCH, KEY BOARD (10)			
S311	1-554-303-21	SWITCH, KEY BOARD (11)			
S312	1-554-303-21	SWITCH, KEY BOARD (12)			
S313	1-554-303-21	SWITCH, KEY BOARD (+)			
S314	1-554-303-21	SWITCH, KEY BOARD (-)			
S315	1-554-303-21	SWITCH, KEY BOARD (MEMO)			
S316	1-554-303-21	SWITCH, KEY BOARD (MS)			
S317	1-554-303-21	SWITCH, KEY BOARD (AUTO/MANU, MODE)			
S318	1-554-303-21	SWITCH, KEY BOARD (BAND)			
T251	1-404-788-11	TRANSFORMER, DISCRIMINATOR(FM)			
T252	1-404-713-11	TRANSFORMER, IF			
TM101	*1-537-138-21	TERMINAL BOARD (ANT)			
TP101	*1-560-060-00	PIN, CONNECTOR 2P			
XT201	1-567-767-11	VIBRATOR, CRYSTAL			

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
3-312-970-00	SHEET PROTECTION

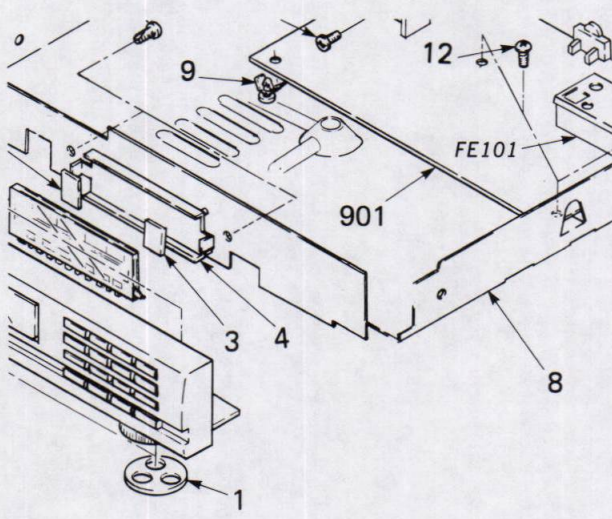
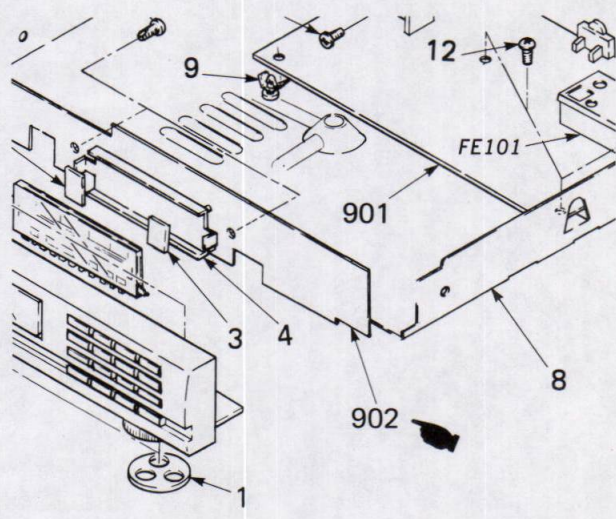
ST-D50L

SONY[®]
SERVICE MANUALAEP Model
UK Model

CORRECTION-1

File this correction with the service manual.

 : Corrected portions

Page	INCORRECT	CORRECT																																																				
13	 <table><tr><th>Ref.No</th><th>Part No.</th><th>Description</th><th>Remark</th></tr><tr><td>901</td><td>*A-4351-635-A (AEP, UK)</td><td>MOUNTED PCB, TUNER</td><td></td></tr><tr><td></td><td>*A-4351-636-A (WG, IT)</td><td>MOUNTED PCB, TUNER</td><td></td></tr><tr><td>FE101</td><td>1-463-963-11</td><td>FRONT END (FM 3 GANG)</td><td></td></tr><tr><td>FL301</td><td>1-519-453-11</td><td>INDICATOR TUBE, FLUORESCENT</td><td></td></tr><tr><td>TM101</td><td>*1-537-138-21</td><td>TERMINAL BOARD (ANT)</td><td></td></tr></table>	Ref.No	Part No.	Description	Remark	901	*A-4351-635-A (AEP, UK)	MOUNTED PCB, TUNER			*A-4351-636-A (WG, IT)	MOUNTED PCB, TUNER		FE101	1-463-963-11	FRONT END (FM 3 GANG)		FL301	1-519-453-11	INDICATOR TUBE, FLUORESCENT		TM101	*1-537-138-21	TERMINAL BOARD (ANT)		 <table><tr><th>Ref.No</th><th>Part No.</th><th>Description</th><th>Remark</th></tr><tr><td>901</td><td>*A-4351-635-A (AEP, UK)</td><td>MOUNTED PCB, TUNER</td><td></td></tr><tr><td></td><td>*A-4351-636-A (WG, IT)</td><td>MOUNTED PCB, TUNER</td><td></td></tr><tr><td>902</td><td>*1-626-248-12</td><td>PC BOARD, PANEL</td><td></td></tr><tr><td>FE101</td><td>1-463-963-11</td><td>FRONT END (FM 3 GANG)</td><td></td></tr><tr><td>FL301</td><td>1-519-453-11</td><td>INDICATOR TUBE, FLUORESCENT</td><td></td></tr><tr><td>TM101</td><td>*1-537-138-21</td><td>TERMINAL BOARD (ANT)</td><td></td></tr></table>	Ref.No	Part No.	Description	Remark	901	*A-4351-635-A (AEP, UK)	MOUNTED PCB, TUNER			*A-4351-636-A (WG, IT)	MOUNTED PCB, TUNER		902	*1-626-248-12	PC BOARD, PANEL		FE101	1-463-963-11	FRONT END (FM 3 GANG)		FL301	1-519-453-11	INDICATOR TUBE, FLUORESCENT		TM101	*1-537-138-21	TERMINAL BOARD (ANT)	
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