ST-S117

SERVICE MANUAL

AEP Model UK Model



Discard ST-S117 Service Manual (No. 9-956-373-11) previously issued. This Service Manual contains it.

Photo: AEP model

SPECIFICATIONS

Tuner

Circuit system

FM stereo, FM/AM superheterodyne tuner

Quartz-locked PLL digital synthesizer system

FM tuner

Frequency range

87.5 - 108 MHz 75 ohms unbalanced

Antenna terminals

Intermediate frequency

10.7 MHz

Sensitivity

18.0 dBf, 2.2 μV (mono)

40.0 dBf, 24.5 μV (stereo)

(at 46 dB quieting)

Signal-to-noise ratio

74 dB (mono) 69 dB (stereo)

(at 40 kHz deviation)

Harmonic distortion

0.3% (mono), 0.5% (stereo) (at 1 kHz)

Separation

40 dB (at 1 kHz)

Frequency response

40 Hz - 12.5 kHz ± 0.5 dB

Selectivity

Model for German, Italian, and UK: 80 dB

(at 400 kHz)

Model for other countries: 55 dB (at 400 kHz)

Capture ratio

AM suppression ratio 54 dB Image response ratio 50 dB IF response ratio 90 dB

Spurious response ratio

1.0 dB

Automatic tuning threshold

17.8 µV (30 dBf)

Output

410 mV, 4.7 kohms (at 40 kHz deviation)

AM tuner

Frequency range

MW: 531 - 1,602 kHz

LW: 153 - 279 kHz

Antenna

AM loop antenna

External antenna terminal Intermediate frequency

450 kHz

Usable sensitivity (with AM loop antenna)

 $300 \mu V/m (999 kHz)$

1 mV/m (216 kHz)

54 dB (50 mV/m) (999 kHz) Signal-to-noise ratio

50 dB (50 mV/m) (216 kHz)

Harmonic distortion

0.5% (50 mV/m, 400 Hz)

Selectivity

32 dB

General

Dimensions

Power requirements

220 - 230 V AC, 50/60 Hz

Power consumption

Approx. $430 \times 85 \times 295$ mm (w/h/d) $(17 \times 3^{3}/8 \times 11^{5}/8 \text{ inches})$

Weight Approx. 2.8 kg (6 lb 3 oz)

Accessories supplied

Remote control cord (1) Connecting cord (1)

FM antenna (1) AM loop antenna (1)

Design and specifications subject to change without notice.

FM STEREO/FM-AM TUNER SONY

TABLE OF CONTENTS

Sec	ction Title	Page
spe	ecifications ·····	1
1.	ELECTRICAL ADJUSTMENTS	3
2.	EXPLANATION OF IC TERMINALS	5
3.	DIAGRAMS 3-1. Printed Wiring Boards 3-2. Printed Wiring Boards — Tuner Board —	9 11 13 15 17
4.	EXPLODED VIEWS ······	20
5.	ELECTRICAL PARTS LIST	··· 21

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \(\hat{L}\) OR DOTTED LINE WITH MARK \(\hat{L}\) 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.

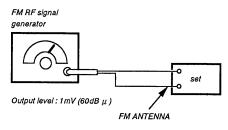
SECTION 1 ELECTRICAL ADJUSTMENTS

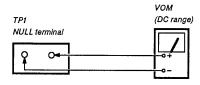
FM SECTION

	Carrier frequency	98MHz
	Modulation	MONO: 1kHz, 40kHz deviation
SSG		STEREO : Audio 1kHz, 16.25kHz deviation Pilot 19kHz, 7.5kHz deviation Sub-carrier 38kHz, 16.25kHz deviation

• FM Discriminator Alignment (NULL check)

Setting:





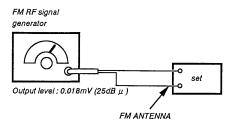
Procedure:

- 1. Tune the set to 98MHz.
- 2. Adjust T21 for 0V reading on the VOM

Note: FM tuning level adjustment should be made after FM discriminator alignment.

• FM Tuning Level Adjustment

Setting:

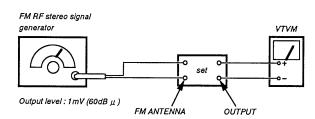


Procedure:

- 1. Tune the set to 98MHz.
- 2. Adjust RV24 so that the TUNE LED goes on.

• FM Stereo Separation Adjustment

Setting:



Procedure:

Tune the set to 98MHz

FM stereo Signal generator Output	VTVM connection	VTVM reading (dB)
L-CH	L-CH	A
R-CH	L-CH	B Adjust RV21 for minimum reading
R-CH	R-CH	©
L-CH	R-CH	D Adjust RV21 for minimum reading

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

The separations of both channels should be equal.

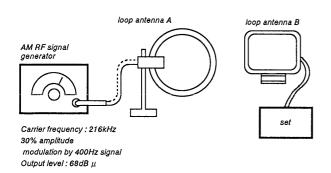
AM SECTION

• AM Tuning Level Adjustment

Setting:

BAND selector: LW

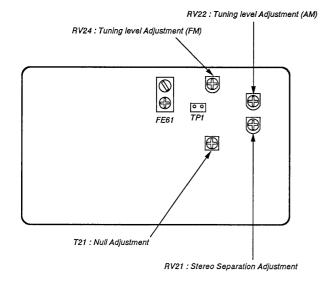
Procedure:



- Set loop antenna A so that the loop antenna B input level becomes 65dB \(\mu/\text{m}\).
- 2. Tune the set to 216kHz.
- 3. Adjust the RV22 so that the TUNED LED goes on.

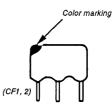
Parts Arrangement Diagram for Adjustments

- tuner board -



Note on Ceramic Filter (CF1, 2) Replacement.

This set employs three ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by D708, D709 mounted is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



○ : Mounted× : Not Mounted

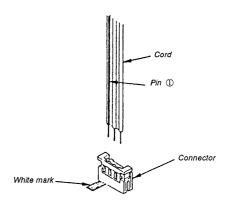
Cera	mic filter	Мо	FM	
Color mark	Center frequency (MHz)	*A D708	*B D709	intermediate frequency (MHz)
White Red Black	10.750 10.700 10.650	× 0 0	0 0 ×	10.750 10.700 10.650

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 CF1 and CF2.

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

[Note on Inserting the cord to the connector on Tuner Board]

• Insert the cord to the connector fitting Pin ① of the cord in accordance with the white mark on the board at the connector as shown in the figure.



SECTION 2 EXPLANATION OF IC TERMINALS

TMP47C670N-1247 is a hight-speed, hight-functional 4 bit single chip microcomputer with a built- in fluorescent display lamp drive circuit, a 4 bit A/D conversion input, and a 14 bit D/A conversion output.

PIN FUNCTIONS

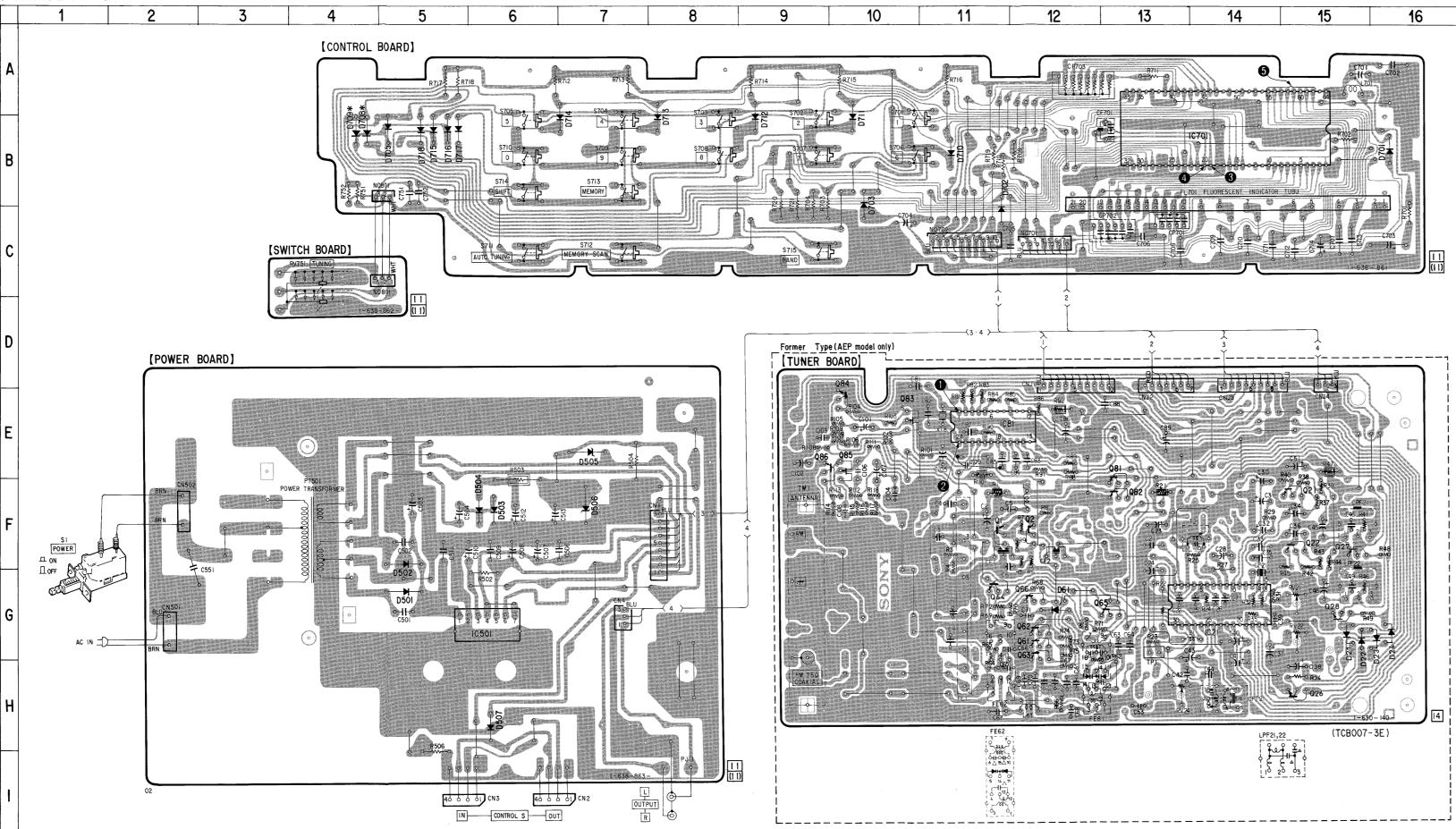
Pin No.	Pin name	I/O	Description
1	VKK	Power	Power terminal for fluorescent display lamp drive.
2-11	S0 – S9	0	FL lamp segement output.
14	CINO	I	Signal input.
15	K01	I	Key input.
16	K02	I	Key input.
17	K03	I	Key input.
18	TEST	I	Terminal for shipping test. (Not used on the set)
19	X IN	I	
20	X OUT	0	Oscillator connection terminal .(Hight frequency)
21	RESET	I	Reset signal input.
22	HOLD	I	Demand/release signal input for hold operation.
24	R60	I	Key input.
25	R60	I	Key input.
27	R63	I	Signal meter level conversion.
28	P10	0	Key output.
29	P11	0	Key output.
30	P12	0	Key output.
31	P13	0	Key output.
32	VSS	Power	GND (0V)
33	P20	0	Key output.
34	P21	0	Key output.
35	P22	0	Key output.
37	R70	I	AUTO STOP level input. TUNED input.
39	R72	0	MUTING input.
40	R73	I	STEREO input.
41	ĪNT2	I	Remote controller input.
42	R81	I	Rotary encoder input.
43	R82	I	Rotary encoder input.
44	R83	0	CE output.
45	SI	I	Serial data input.
46	SO	0	Serial data output.
47	SCK	0	Serial clock output.
54 - 62		0	FL lamp digit output.
64	VDD	Power	+5V

• SEMICONDUCTOR LOCATION

L	Ref. No.	Location	Ref. No.	Location
	D21	G - 15	IC21	G - 14
1	D22	G - 15	IC81	E-11
	D23	G-16	IC501	G-6
1	D24	G - 18	IC701	B - 14
1	D61	G - 12		
1	D501	G-5	Q1	F-11
1	D502	F-5	Q2	F-12
1	D503	F-6	Q21	F-15
1	D504	F-6	Q22	F-15
	D505	F-7	Q26	H - 15
1	D506	F-7	Q27	F-15
-	D507	H-6	Q28	G-15
1	D701	B-16	Q61	G-12
Т	D702	C-11	Q62	G-12
1	D703	B-10	Q63	G-12
1	D705	B-5	Q64	G-11
1	D708	B-4	Q65	G - 13
١	D709	B-4	Q81	E-13
П	D710	B-11	Q82	F-13
	D711	B-11	Q83	E-10
	D712	B-9	Q84	E-10
	D713	B-8	Q85	E-10
	D714	B-7	Q86	E-9
-	D715	B-5		
1	D716	B-5		
	D717	B-5		
	D718	B-5		

• O— : parts extracted from the component side. • a: parts mounted on the conductor side. • [] : indicates side identified with part number. : Pattern on the side which is seen.

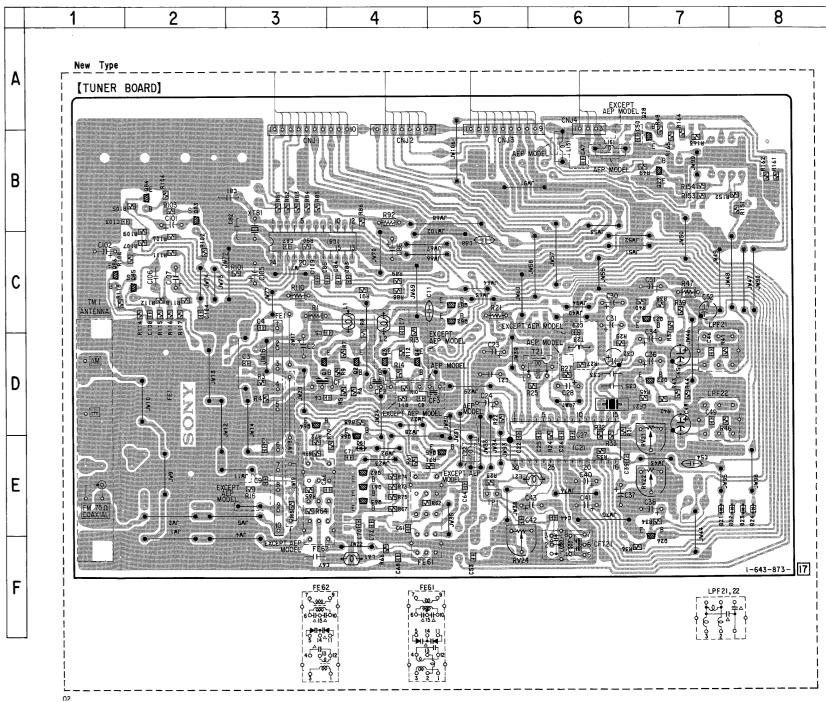
3-1. PRINTED WIRING BOARDS



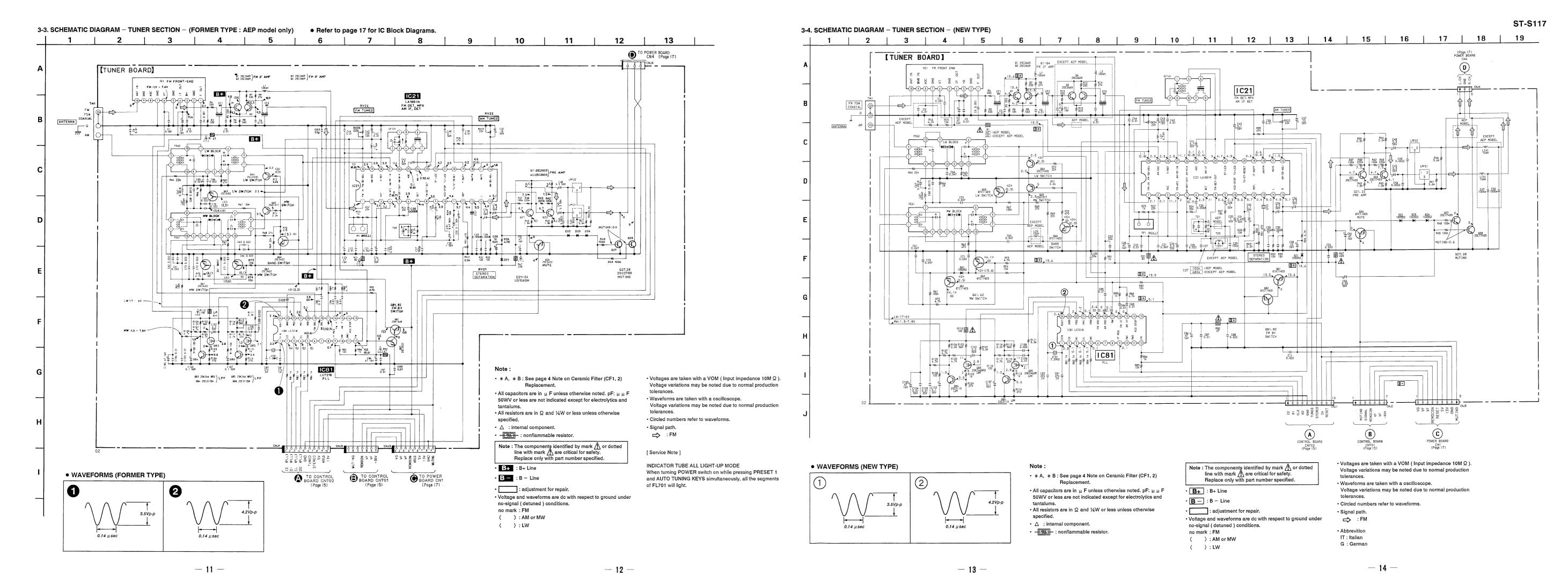
SEMICONDUCTOR LOCATION

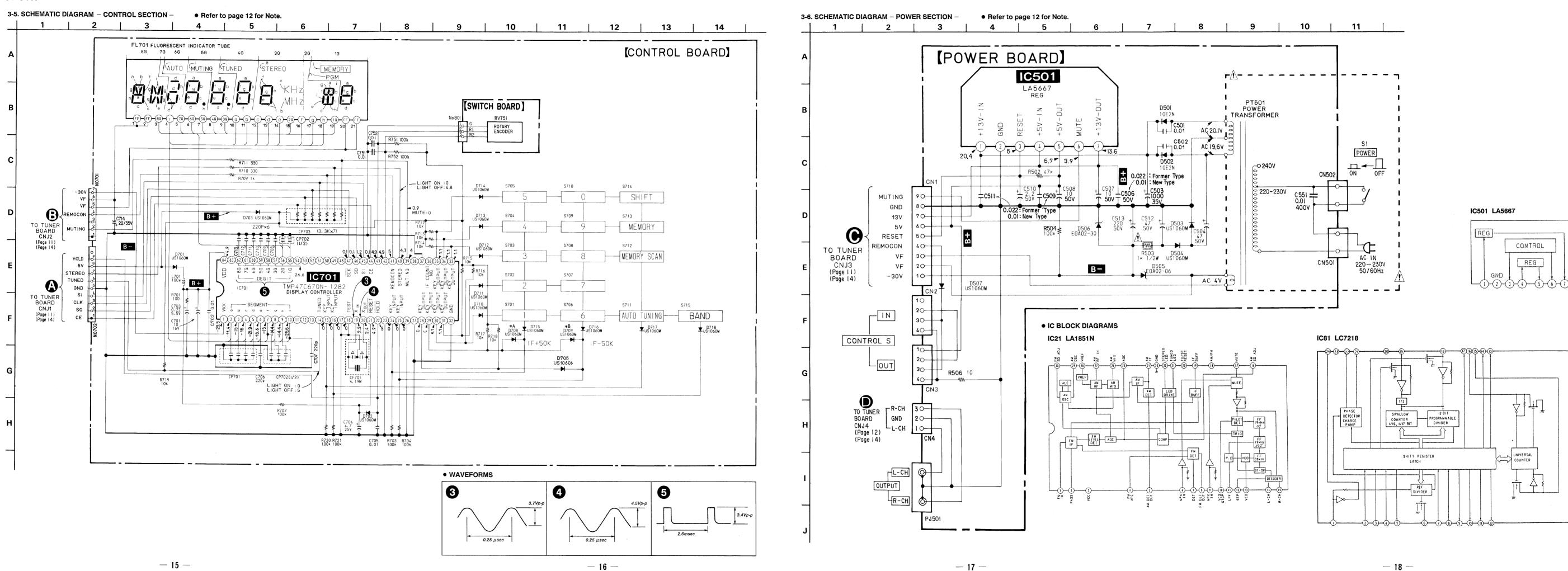
	Ref. No.	Location	Ref. No.	Location
	D21	E-7	Q27	B-7
	D22	E-7	Q28	B-7
	D23	E-8	Q61	E-4
	D24	E-8		1
	D61	E-4	Q62	E-4
			Q63	E-4
			Q64	D-3
	IC21	E-6	Q65	E-5
	IC81	C-3	Q66	E-4
			Q81	C-5
	Q1	D-3	Q82	C-5
ed from the component side.	Q2	D-4	Q83	B-2
dentified with part number.	Q3	D-4	Q84	B-2
	Q4	D-4	Q85	C-2
side which is seen.	Q21	C-7	Q86	C-1
	000	D 7		
	Q22	D-7 F-7		
	Q26	/	L	<u> </u>

3-2. PRINTED WIRING BOARDS - TUNER BOARD -

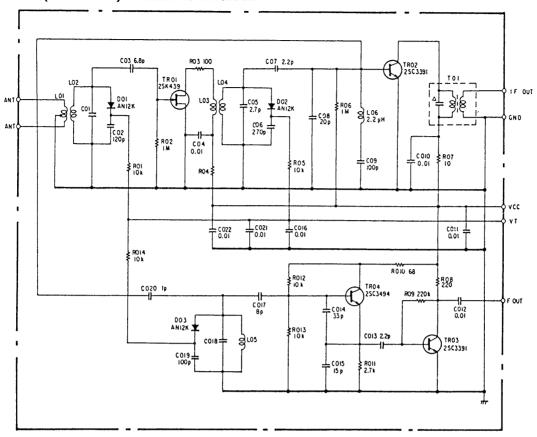


- 9 -





3-7. FE/(FRONT END) SCHEMATIC DIAGRAM

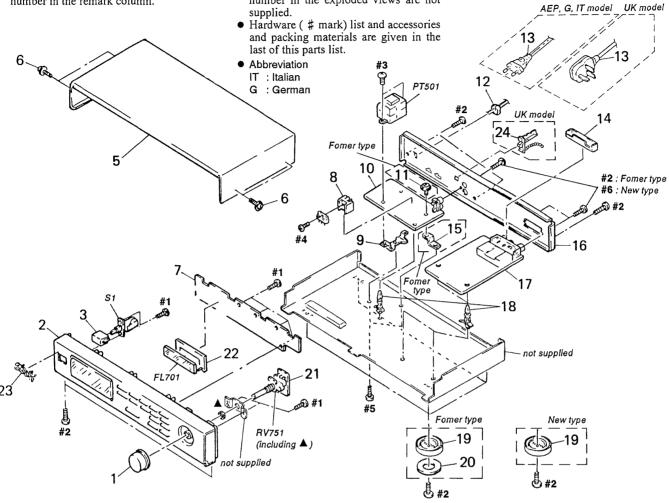


SECTION 4 EXPLODED VIEW

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

• Items marked " * "are not stocked since Items marked ** are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 The mechanical parts with no reference number in the exploded views are not



Ref. No.	Part No.	<u>Description</u> <u>Remark</u>	Ref. No.	Part No.
1	4-945-523-01	KNOB (TUNE)	* 16	4-975-134-
2	X-4941-649-1	PANEL ASSY, FRONT (Former Type)	* 16	4-975-134-
2	X-4946-105-1	PANEL ASSY, FRONT (New Type)	* 16	4-975-134-
3	3-354-912-01	KNOB, POWER (Former Type)	* 17	A-4345-492
3	4-917-460-01	KNOB, POWER (New Type)		
			* 17	A-4378-126
5	4-923-457-01	CASE		
6	3-704-366-01	SCREW (CASE) (M3×8)	* 17	A-4378-128
* 7	A-4345-162-A	CONTROL BOARD, COMPLETE (Former Type)	* 18	3-346-265-
* 7	A-4378-124-A	CONTROL BOARD, COMPLETE (New Type)	* 18	3-346-265
* 8	4-363-146-31	HEAT SINK, V. OUT	19	X-3304-938
			19	4-956-885
* 9	4-917-044-01	BRACKET (PT)		
* 10	1-638-863-11	POWER BOARD	* 20	4-923-836
11	4-886-821-11	SCREW, S TIGHT, +PTTWH 3×6 (Former Type	e) * 21	1-638-862
12	3-703-244-00	BUSHING, CORD	* 22	4-945-525
∆ 13	1-575-651-11	CORD, POWER (AEP) (Former Type)	23	4-925-334
			24	4-956-370
∆ 13		CORD, POWER (AEP, G, IT) (New Type)		
∆ 13		CORD, POWER (UK)	FL701	
* 14		PLATE (ST), GROUND	<u> </u>	1-450-009
* 15		BRACKET (P) (Former Type)	RV751	1-466-513
* 16	4-944-121-61	PANEL, BACK (AE1) (Former Type)	S1	1-554-920
* 16	4-944-121-91	PANEL, BACK (AE2) (Former Type)	S1	1-572-267

	O #2		
Ref. No.	Part No.	Description	Remark
* 16	4-975-134-11	PANEL, BACK (AEP) (New Type) PANEL, BACK (G, IT) PANEL, BACK (UK)	
		TUNER BOARD, COMPLETE (AEP)	mer Type)
* 17	A-4378-126-A	TUNER BOARD, COMPLETE (AEP)	(New Type)
* 18 * 18 19 19	3-346-265-11 3-346-265-31 X-3304-938-2 4-956-885-11	TUNER BOARD, COMPLETE (UK, G, I HOLDER, PC BOARD (Former Type HOLDER, PC BOARD (New Type) FOOT ASSY (Former Type) FOOT (F58175S2W) (New Type) CUSHION (Former Type)	
* 21	1-638-862-11 4-945-525-01 4-925-334-11	SWITCH BOARD HOLDER, FL TUBE EMBLEM (5-A), SONY BAND, PLUG FIXED (UK)	
⚠ PT501	1-450-009-11 1-466-513-11 1-554-920-21	SWITCH, PUSH (AC POWER) (1 K	rmer Type)
			(Jpo)

SECTION 5 **ELECTRICAL PARTS LIST**

CONTRO

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.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms METAL : Metal-film resistor METAL OXIDE : Metal oxide-film resistor

F: nonflammable

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

• SEMICONDUCTORS

In each case, $\mathbf{u}: \boldsymbol{\mu}$, for example : $uA....: \mu A...., uPA....: \mu PA....$ $uPB....: \mu PB.... , uPC....: \mu PC....$

uPD....: μ PD.... • CAPACITORS

uF: μF • COILS uH : μ Η Abbreviation IT: Italian G : German The components identified by mark Λ or dotted line with mark Λ are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board.

uH: μ H											
Ref. No.	Part No.	Description		Rei	mark	Ref. No.	Part No.	Description			Remark
*		CONTROL BOARD, CONTROL BOARD,						< FLUORESCENT	INDICA	TOR TU	BE >
		*******				FL701	1-519-512-11	INDICATOR TUBE,	FLUOR	ESCENT	
		< CAPACITOR >						< IC >			
C701 C702	1-126-157-11 1-162-306-11		10uF 0. 01uF	20% 30%	16V 16V	IC701	8-759-246-23	IC TMP47C670N	-1247		
C703 C704		CAP, DOUBLE LAY		20%	50V			< COIL >			
C705	1-162-306-11		0. 01uF	30%	167	L701	1-410-521-11	INDUCTOR	100uH		
C706-7	13 1-162-286-21	CEDAMIC	220PF	1.00/	F01/			< RESISTOR >			
C714	1-102-200-21		22uF	10% 20%	50V 63V	D701	1 047 007 01	CADDON	100	50 /	1 / 470
C751	1-162-306-11		0.01uF	30%	05V 16V	R701 R702	1-247-807-31 1-249-441-11		100 100K	5% 5%	1/4W
C752	1-162-306-11		0. 01uF	30%	16V	R702	1-249-441-11			5% 5%	1/4W 1/4W
0100	1 102 300 11	CLIMATIC	o. orur	30%	101	R704	1-249-441-11			5% 5%	
		< VIBRATOR >				R704 R709	1-249-441-11		100K 1K	5% 5%	1/4W 1/4W
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				11109	1-249-411-11	CARDON	IV	3%	1/4₩
CF701	1-577-101-11	VIBRATOR, CERAM	IC (4.19MHz)			R710	1-249-411-11		330	5%	1/4W
						R711	1-249-411-11	CARBON	330	5%	1/4W
		< COMPOSITION C	IRCUIT BLOCK	>		R712-7					
0000							1-249-429-11		10K	5%	1/4W
		COMPOSITION CIRC				R720	1-249-441-11		100K	5%	1/4W
		COMPOSITION CIRC				R721	1-249-441-11	CARBON	100K	5%	1/4W
						R751	1-249-441-11	CARBON	100K	5%	1/4W
		< DIODE >				R752	1-249-441-11	CARBON	100K	5%	1/4W
D701 D702	8-719-815-85							< SWITCH >			
D702 D703	8-719-815-85					0701	1 554 000 01	OWINGII MIGHTIN	()		
D703 D705	8-719-815-85					S701		SWITCH, TACTILE			
D705 D708	8-719-815-85		(Pammam Tama)			S702		SWITCH, TACTILE			
מטוע	8-719-815-85	DIODE 121282	(Former Type))		S703		SWITCH, TACTILE			
D700	8-719-815-85	DIADE 101F0F	(P			S704		SWITCH, TACTILE			
D709 D710-7		מעטזע 191985	(Former Type)	,		S705	1-554-303-21	SWITCH, TACTILE	(5)		
ו־טווע	8-719-815-85	DIODE 1S1585				2706	1 554 202 21	CHITCH TACTIC	(lal)		
	0-119-019-09	ממטזמ				S706 S707		SWITCH, TACTILE SWITCH, TACTILE			
					1	2101	1-334-303-21	STITCH, INCITED	(Ш)		

CON	ITROL	POWE	R SV	VITC	Н	TUNE	R (For	mer)			
Ref. No.	Part No.	Description		Ren	ark	Ref. No.	Part No.	Description		Rei	nark
\$708 \$709 \$710 \$711 \$712	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE	(9) (0) (AUTO TUNI			D504 D505 D506 D507	8-719-815-85 8-719-903-61 8-719-982-22 8-719-815-85	LED SLP361B DIODE MTZJ-30I			
S713	1-554-303-21	SWITCH, TACTILE	(MEMORY)	anty				< IC >			
S714 S715		SWITCH, TACTILE SWITCH, TACTILE				IC501	8-759-820-09	IC LA5667			
******	*****	******	*****	*****	****			\ JACK /			
	1 000 000 11	DOWED DOADD				PJ501	1-565-352-11	JACK, PIN 2P (O	UT PUT)		
*	1-638-863-11	POWER BUARD ********						< TRANSFORMER >			
		< CAPACITOR >				<u></u> ♣PT501	1-450-009-11	TRANSFORMER, PO	WER		
C501 C502 C503 C504 C506	1-164-096-11 1-164-096-11 1-126-952-11 1-126-967-11 1-101-005-00	CERAMIC ELECT ELECT	0. 01uF 0. 01uF 1000uF 47uF 22000PF	20% 20% (Former	50V 50V 35V 50V 50V Type)	R502 <u>∧</u> R503 R504 R506	1-249-437-11 1-247-752-11 1-249-441-11 1-249-393-11	CARBON CARBON	47K 5% 1K 5% 100K 5% 10 5%	1/4W 1/2W 1/4W 1/4W	
C506 C507	1-164-096-11 1-126-964-11		0. 01uF 10uF	20%	50V Type) 50V	*		SWITCH BOARD *******	****	****	ቀ ቀቀቀቀ
C508 C509 C509	1-126-964-11 1-101-005-00 1-164-096-11	CERAMIC	10uF 22000PF 0. 01uF	20% (Former	50V 50V Type) 50V	DV751	1_466_513_12	< VARIABLE RESIS			
C303	1-104-050-11	CERAMIC	o. orur	(New	Type)	1		***********		*****	****
C510 C511	1-124-925-11 1-101-005-00		2. 2uF 22000PF	20% (Former	100V 50V	*	A-4345-492-A	TUNER BOARD, CO	` (P) (Former	Type)
C511	1-164-096-11	CERAMIC	0. 01uF		50V Type)			< CAPACITOR >	******		
C512 C513	1-126-967-11 1-126-969-11		47uF 220uF	20% 20%	50V 50V	C1 C2	1-162-294-31 1-124-477-11	CERAMIC CHIP	0.001uF 47uF	20% 20%	25V 25V
<u></u> £ C551	1-161-744-00	CERAMIC	0.01uF		400V	C3 C4	1-163-059-00 1-162-294-31	CERAMIC MELF CERAMIC CHIP	0.01uF 0.001uF	20% 20% 20%	16V 25V
		< CONNECTOR >				C5	1-163-059-00	CERAMIC MELF	0. 01uF	20%	16V
CN1 CN2 CN3 CN4 CN501	1-564-980-11 1-564-980-11 1-564-337-00	PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR	4P 4P 3P	2P		C6 C9 C21 C22 C23	1-163-059-00 1-101-006-00	CERAMIC MELF	0. 01uF 0. 01uF 0. 047uF 0. 01uF 47uF	20% 20% 20% 20%	16V 16V 50V 16V 25V
CN502	1-564-321-00 8-719-200-82		2P			C24 C25 C26 C27 C28	1-163-019-00	CERAMIC MELF CERAMIC CHIP CERAMIC CHIP	3. 3uF 0. 022uF 0. 0068uF 100PF 1uF	20% 10% 10% 20%	100V 25V 50V 50V 50V
D502 D503	8-719-200-82 8-719-815-85					C30	1-124-903-11	ELECT	1uF	20%	50V

TUNER (Former)

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description	n		Remark
C31 C32	1-124-902-00 1-124-463-00		0. 47uF 0. 1uF	20% 20%	50V 50V	C109	1-102-963-00	CERAMIC	33PF	5%	50V
C32	1-130-481-00		0. 1ur 0. 0068uF	20% 5%	50V			< FILTER >			
C34	1-123-382-00		3. 3uF	20%	100V			\ IIDIDI			
C35	1-130-481-00		0. 0068uF	5%	507	CF1	1-567-389-11	FILTER. CE	RAMIC		
						CF2	1-567-389-11	,			
C36	1-123-382-00	ELECT	3. 3uF	20%	100V	CFT21	1-404-853-11	TRANSFORME	R, IF (CERAMIC E	FILTER)	
C37	1-124-907-11		10uF	20%	50V						
C38	1-124-907-11		10uF	20%	50V			< VIBRATOR	>		
C39		CERAMIC MELF	0. 01uF	20%	16V						
C40	1-124-463-00	ELECT	0. 1uF	20%	50V	CF21	1-577-075-11	OSCILLATOR	, CERAMIC		
C41	1-124-927-11	ELECT	4. 7uF	20%	100V			< CONNECTO	R >		
C42		CERAMIC MELF	0. 01uF	20%	16V						
C43	1-126-176-11		220uF	20%	10V	* CNJ1	1-564-666-11				
C44		CERAMIC MELF	0. 01uF	20%	16V	* CNJ2	1-564-341-11				
C45	1-123-382-00	ELECT	3. 3uF	20%	100V	* CNJ3	1-568-313-11				
C46	1-163-059-00	CERAMIC MELF	0. 0022uF	20%	25V	CNJ4	1-568-269-11	SOCKET, CO	NNECTOR 3P		
C48	1-123-382-00		3. 3uF	20%	100V			< DIODE >			
C49	1-161-375-00	CERAMIC MELF	0. 0022uF	20%	25V						
C51	1-124-477-11		47uF	20%	25V	D21-24	8-719-912-20		S120		
C53	1-163-467-11	CERAMIC CHIP	33PF	5%	50V	D61	8-719-912-20	DIODE 1S	S120		
C61	1-163-063-00	CERAMIC MELF	0. 022uF		25V			< FRONT EN	D >		
C62		CERAMIC MELF	0. 022uF		25V						
C63		CERAMIC MELF	0. 022uF		25V	FE1	1-463-862-21		• •		
C64		CERAMIC MELF	0. 022uF		25V	FE61	1-236-462-11				
C65	1-163-063-00	CERAMIC MELF	0. 022uF		25V	FE62	1-236-463-11	ENCAPSULAT	ED COMPONENT		
C66	1-163-063-00	CERAMIC MELF	0. 022uF		25V			< IC >			
C67	1-102-120-00	CERAMIC	0.0018uF	10%	50V						
C68	1-162-523-11	CERAMIC CHIP	0.0015uF	20%	25V	IC21	8-759-821-45	IC LA185	1N		
C69		CERAMIC CHIP	0. 022uF		25V	IC81	8-759-820-91	IC LC721	8		
C70	1-163-063-00	CERAMIC CHIP	0. 022uF		25V						
C71	1-163-063-00	CERAMIC CHIP	0. 022uF		25V			< COIL >			
C72		CERAMIC CHIP	0. 022uF		25V	L1	1-410-645-31	INDUCTOR	100uH		
C73	1-163-063-00	CERAMIC CHIP	0. 022uF		25V	L21	1-407-500-00	INDUCTOR	4.7mH		
C81	1-102-961-00	CERAMIC	27PF	5%	50V	L61	1-410-525-11	INDUCTOR	220uH		
C82	1-102-961-00	CERAMIC	27PF	5%	50V						
000	1 100 050 00	OPPLINTS NET P	0.01.13	0.00/	1.077			< FILTER >			
C83		CERAMIC MELF	0. 01uF	20%	16V	r ppo1	1 995 164 00	מתדוות	M DACC		
C84 C85		CERAMIC MELF CERAMIC MELF	0. 01uF 0. 01uF	20% 20%	16V 16V		1-235-164-00 1-235-164-00	,			
C86	1-124-477-11		47uF	20%	25V	LFF22	1-235-104-00	rilien, Lo	CONTIN		
C87		CERAMIC MELF	0.01uF	20%	16V			< TRANSIST	OR >		
					101						
C88		CERAMIC MELF	0. 01uF	20%	16V	Q1	8-729-230-99				
C101	1-124-925-11		2. 2uF	20%	1007	Q2	8-729-230-99				
C102	1-124-463-00		0. 1uF	20%	50V	Q21	8-729-119-78				
C103		CERAMIC MELF	0. 01uF	20%	16V	Q22	8-729-119-78				
C104	1-109-028-00	CERAMIC MELF	0. 01uF	20%	16V	Q26	8-729-900-80	101010H	DTC114ES		
C105	1-124-477-11		47uF	20%	25V	Q27	8-729-620-05	TRANSISTOR			
C106	1-136-173-00		0. 47uF	5%	507	Q28	8-729-620-05				
C107	1-124-463-00		0. 1uF	20%	50V	Q61	8-729-900-80				
C108	1-163-063-00	CERAMIC CHIP	0. 022uF		25V	Q62	8-729-900-80	TRANSISTOR	DTC114ES		

TUNER (Former)

Ref. No.	Part No.	Description			Re	mark	Ref. No.	Part No.	Descrip	tion			Re	mark
Q63	8-729-900-80	TRANSISTOR	DTC114ES				R66	1-249-073-11	CARBON	MELF	1M	5%	1/5W	
Q64	8-729-620-05		2SC2603-			}	R67	1-249-359-11		MELF	100K	5%	1/8W	
Q65	8-729-821-04	TRANSISTOR	2SA1317-				R68	1-249-352-11			27K	5%	1/8W	
Q66	8-729-900-80	TRANSISTOR	DTC114ES			1	R69	1-249-351-11			22K	5%	1/8W	
Q81	8-729-900-61		DTA114ES			ļ	R70	1-249-331-11		MELF	470	5%	1/8W	
Q82	8-729-900-80	TOANCICTOD	DTC114ES				D71	1 940 220 11	CADDON	MEL E	0 017	E0/	1 /01	
Q83	8-729-202-67		2SK246-G			ĺ	R71 R72	1-249-339-11 1-249-339-11		MELF MELF	2. 2K 2. 2K	5% 5%	1/8W	
Q84	8-729-230-93		2SC3113-			j	R73	1-249-339-11		MELF	2. ZK 10K	5% 5%	1/8W	
Q85	8-729-202-67		2SK246-G				R74	1-249-347-11					1/8W	
Q86	8-729-230-93		2SC3113-			}	R75	1-249-347-11		MELF MELF	10K 4.7K	5% 5%	1/8W	
400	0 120 200 30	IMMOIDION	2000110	תט			K75	1-245-545-11	CANDON	MELL	4. IK	3/0	1/8W	
		< RESISTOR >	•				R81	1-249-335-11		MELF	1K	5%	1/8W	
4.53						_	R82	1-249-335-11			1K	5%	1/8₩	
<u></u> R1	1-249-401-11		47	5%	1/4W	F	R83	1-249-335-11		MELF	1K	5%	1/8W	
R3	1-249-329-11		330	5%	1/8W	1	R84	1-249-335-11		MELF	1K	5%	1/8W	
R4	1-249-329-11		330	5%	1/8W]	R85	1-249-347-11	CARBON	MELF	10K	5%	1/8₩	
R5	1-249-329-11		330	5%	1/8W									
R6	1-249-350-11	CARBON MELF	18K	5%	1/8		R86	1-249-335-11		MELF	1K	5%	1/8₩	
							R88	1-249-343-11	CARBON	MELF	4.7K	5%	1/8W	
R7	1-249-329-11		330	5%	1/8W	Ì	R89	1-249-335-11	CARBON	MELF	1K	5%	1/8W	
R8	1-249-332-11		560	5%	1/8W		R90	1-249-343-11	CARBON	MELF	4.7K	5%	1/8W	
R9	1-249-352-11		27K	5%	1/8W	ĺ	R91	1-249-335-11	CARBON	MELF	1K	5%	1/8W	
∆ R21	1-249-404-00		82	5%	1/4W	F								
R22	1-249-433-11	CARBON	22K	5%	1/4W		 R92	1-249-401-11	CARBON		47	5%	1/4W	F
							R101	1-249-341-11	CARBON	MELF	3. 3K	5%	1/8W	
R23	1-249-335-11	CARBON MELF	7 1K	5%	1/8W		R102	1-249-332-11	CARBON	MELF	560	5%	1/8W	
R24	1-249-353-11	CARBON MELF	33K	5%	1/8W		R103	1-249-335-11	CARBON	MELF	1K	5%	1/8W	
R25	1-249-346-11	CARBON MELF	8. 2K	5%	1/8W		R104	1-249-328-11		MELF	270	5%	1/8W	
R27	1-249-432-11	CARBON	18K	5%	1/4W									
R29	1-249-347-11	CARBON MELF	10K	5%	1/8W		R105	1-249-343-11	CARBON	MELF	4.7K	5%	1/8W	
							R106	1-249-339-11			2. 2K	5%	1/8W	
R31	1-249-331-11	CARBON MELF	470	5%	1/8W		R107	1-249-343-11			4.7K	5%	1/8W	
R32	1-249-347-11	CARBON MELF	10K	5%	1/8W		R108	1-249-323-11			100	5%	1/8W	
R33	1-249-347-11		10K	5%	1/8W		R109	1-249-343-11			4.7K		1/8W	
R34	1-249-425-11		4.7K	5%	1/4W							0.0	-, 0	
R35	1-249-355-11	CARBON MELF		5%	1/8W		 R110	1-249-405-11	CARBON		100	5%	1/4W	F
					_,		R111	1-249-341-11		MELF	3. 3K	5%	1/8W	-
R37	1-249-359-11	CARBON MELE	100K	5%	1/8W		R112	1-249-332-11			560	5%	1/8W	
R38	1-249-363-11			5%	1/8W		R113	1-249-335-11			1K	5%	1/8W	
R39	1-249-339-11			5%	1/8W		R114	1-249-328-11		MELF	270	5%	1/8W	
R40	1-249-338-11				1/8W			1 510 050 11	· OINDON	MIDDE	210	070	1/011	
R41	1-249-344-11				1/8W		R115	1-249-351-11	CARRON	MELE	22K	5%	1/8W	
			J. 011	0,0	±, On		R116	1-249-339-11		MELF	2, 2K		1/8W	
R42	1-249-359-11	CARBON MELE	100K	5%	1/8W		R117	1-249-343-11			4. 7K		1/8W	
R43	1-249-363-11				1/8W		R118	1-249-323-11			100	5% 5%	1/8W	
R44	1-249-339-11				1/8W		KIIO	1-245-323-11	CARDON	MELL	100	3/0	1/0#	
R45	1-249-338-11				1/8W				/ WADIA	BLE RES	A GOTO			
R46	1-249-344-11								VARIA	IBLE RES.	12101 >	•		
1140	1 440 -044-11	CUITON METE	5.6K	5%	1/8W		D1/01	1.000 010 11	DEC AF	VI CYDDA	יים פיותר			
<u></u> ∧ R47	1-249-409-11	CADDOM	200	E0/	1 / 410	ъ	RV21	1-238-013-11	KES, AL	J, CARBO			00010	ATTON
			220	5%	1/4W	г	Diroo	1 000 017 11	DEC 45	1 (100)) SEPAR	AIIUN)
R48	1-249-359-11			5%	1/8W		RV22	1-238-017-11						
R49	1-249-359-11			5%	1/8₩	-	RV24	1-238-017-11	KES, AI	J, CARBO	JN 22K	(FM T	JNED)	
R61	1-249-359-11			5%	1/8W				, m					
R62	1-249-355-11	CARBON MELF	7 47K	5%	1/8₩				< TRANS	SFORMER :	>			
R64	1-249-351-11	CARBON MELF	22K	5%	1/8W		T21	1-404-807-11	TRANSEC	BMES D	SCRIMI	NATOD		
R65	1-249-355-11			5%	1/8W		101	_ 101 001 11	· Immort	remark, D.				
	000 11	Jane Carlotte	7 1 17	070	1,011									

TUNER (Former) TUNER (New)

Ref. No.	Part No.	Description		Re	emark	Ref. No.	Part No.	Description		Re	emark
		< TERMINAL >				C38	1-126-964-11	ELECT	10uF	20%	50V
						C39		CERAMIC CHIP	0. 01uF	2070	50V
* TM1	1-537-138-31	TERMINAL BOARD	(ANTENNA)			C40	1-124-463-00		0. 1uF	20%	50V
						C41	1-124-927-11	ELECT	4. 7uF	20%	100V
		< TEST PIN >				C42	1-164-232-11	CERAMIC CHIP	0.01uF		50V
* TP1	1-560-060-00	PIN, CONNECTOR	2P (NULL)			C43	1-126-923-11	ELECT	220uF	20%	10V
						C44	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
		< VIBRATOR >				C45	1-126-111-11	ELECT	3. 3uF	20%	50V
						C46	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V
XT81		VIBRATOR, CRYS				C47	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
*****	******	******	******	*****	****					(UK	(, G, IT)
*	A-4378-126-A	TUNER BOARD, CO	OMPLETE (AEP) (New	Type)	C48	1-126-111-11	ELECT	3. 3uF	20%	50V
*	A-4378-128-A	TUNER BOARD, CO		G, IT)		C49	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V
		******	*****			C50	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
										(UK	(, G, IT)
		< CAPACITOR >				C51	1-126-967-11		47uF	20%	16V
C1	1 100 141 00	ODDINIO OUID	0 001 7	===		C52	1-124-252-00	ELECT	0. 33uF	20%	50V
C1 C2	1-103-141-00	CERAMIC CHIP	0.001uF	5%	50V	250					
C2		CERAMIC CHIP	47uF 0.01uF	20%	16V	C53		CERAMIC CHIP	33PF	5%	50V
C4		CERAMIC CHIP	0.01ur 0.001uF	5%	50V 50V	C54 C61	1-164-097-11		0. 022uF	1.00/	50V
C5		CERAMIC CHIP	0.001uF	3/0	50V	C61 C64		CERAMIC CHIP	0. 047uF	10%	25V
00	1 101 202 11	ODMINIC CITT	o. orur		301	C64		CERAMIC CHIP	0. 047uF 0. 047uF	10% 10%	25V 25V
C6	1-164-232-11	CERAMIC CHIP	0.01uF		50V	200	1-103-009-11	CERMINIC CHIP	0. 04 / ur	10%	45 V
C7	1-164-232-11		0. 01uF		50V	C67	1-102-120-00	CERAMIC	0. 0018uF	10%	50V
				(UK	, G, IT)	C68		CERAMIC CHIP	0. 0015uF	10%	50V
C8	1-164-232-11	CERAMIC CHIP	0.01uF	,	500	C70		CERAMIC CHIP	0. 047uF	10%	25V
				(UK	, G, IT)	C71		CERAMIC CHIP	0. 022uF	10%	25V
C9	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C72	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
				(UK	, G, IT)						
C11	1-164-097-11	CERAMIC	0.022uF		50V	C81	1-102-961-00		27PF	5%	50V
001	1 101 000 00	000 1117 0				C82	1-102-961-00		27PF	5%	50V
C21	1-101-006-00		0. 047uF		50V	C83		CERAMIC CHIP	0. 01uF		50V
C22	1-164-232-11		0. 01uF	0.00	50V	C84		CERAMIC CHIP	0. 01uF		50V
C23 C24	1-126-967-11 1-126-111-11		47uF	20%	16V	C85	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C25	1-120-111-11		3. 3uF	20%	50V	000	1 100 005 11	DI DOM			
C23	1-103-031-11	CERAMIC CHIP	0. 022uF	10%	25V	C86	1-126-967-11		47uF	20%	16V
C26	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	C87 C88	1-164-232-11 1-164-097-11		0. 01uF		50V
C27	1-163-137-00		680PF	5%	50V	C101	1-104-097-11		0. 022uF 2. 2uF	200/	50V 100V
	- 100 101 00	oblamic oili	00011		, G, IT)		1-124-463-00		2. 2ur 0. 1uF	20% 20%	50V
C27	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	0102	1 124 400 00	DDDC1	o. rur	20/0	301
					(AEP)	C103	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C28	1-124-903-11		1uF	20%	50V	C104	1-164-232-11		0. 01uF		50V
C29	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C105	1-126-967-11		47uF	20%	16V
				(UK,	, G, IT)	C106	1-136-173-00	FILM	0. 47uF	5%	50V
						C107	1-124-463-00	ELECT	0. 1uF	20%	50V
C30	1-124-903-11		luF	20%	50V						
C31	1-124-902-00		0. 47uF	20%	50V	C108	1-163-037-11		0. 022uF	10%	25V
C32	1-124-463-00		0. 1uF	20%	50V	C109	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C33 C34	1-130-481-00		0. 0068uF	5%	50V			/ DILMPE :			
C34	1-126-111-11	ELECI	3. 3uF	20%	50V			< FILTER >			
C35	1-130-481-00	MYI.AR	0.0068uF	5%	50V	CF1	1_567_200 11	DIITED CEDANIC			
	1-126-111-11		3. 3uF	20%	50V	CF1 CF2		FILTER, CERAMIC FILTER, CERAMIC			
C37	1-126-964-11		10uF	20%	50V	CF2		FILTER, CERAMIC			
				0/0	001	01.0	2 001 000 11	LIDIDIG CDRAWIT	(on, u, 11)		

TUNER (New)

Re	ef. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
	CFT21	1-404-853-11	TRANSFORMER, IF	(CERAMIC FILTER)		Q61	8-729-900-80	TRANSISTOR	DTC114ES		
						Q62	8-729-900-80		DTC114ES		
			< VIBRATOR >			Q63 Q64	8-729-900-80 8-729-119-78		DTC114ES 2SC2785-H	irr	
	CF21	1-577-075-11	OSCILLATOR, CE	RAMIC		Q65	8-729-821-04		2SA1317-S		
			< CONNECTOR >			Q66	8-729-900-80	TRANSISTOR	DTC114ES		
						Q81	8-729-900-61		DTA114ES		
	CNJ1		PIN, CONNECTOR			Q82	8-729-900-80		DTC114ES	10	
			PIN, CONNECTOR PIN, CONNECTOR			Q83 Q84	8-729-202-67 8-729-230-93		2SK246-GF 2SC3113-A		
٠	CNJ4		PIN, CONNECTOR			-					
			< DIODE >			Q85 Q86	8-729-202-67 8-729-230-93		2SK246-GF 2SC3113-A		
			\ DIODE >			₩00	0-123-230-33	MATOTOTON	2000110 7	מו	
		8-719-988-62						< RESISTOR >			
	D61	8-719-988-62	DIODE 1SS355			<u></u> R1	1-249-397-11	CARRON	22	5%	1/4W F
			< FRONT END >			Witi	1-249-391-11	CARDON	22	3/0	(UK, G, IT)
						<u></u> R1	1-249-401-11	CARBON	47	5%	1/4W F
	FE1		FRONT END (FM)								(AEP)
	FE1		FRONT END (FM)			R3	1-216-037-00		330	5%	1/10W
	FE61		ENCAPSULATED C			R4	1-216-037-00 1-216-037-00		330 330	5% 5%	1/10\ 1/10\
	FE62	1-230-403-11	ENCAPSULATED C	OMPONENT		R5	1-410-037-00	METAL CHIP	330	3%	1/10#
			< IC >			R6	1-216-079-00	METAL CHIP	18K	5%	1/10W
						R7	1-216-037-00		330	5%	1/10W
	IC21	8-759-821-45	IC LA1851N			R8	1-216-043-91		560	5%	1/10W
	IC81	8-759-175-87	IC LC7218-S			R9	1-216-083-00		27K	5%	1/10W
			4 COII >			R10	1-216-037-00	METAL CHIP	330	5%	1/10W (UK, G, IT)
			< COIL >								(UK, U, II)
	L1	1-410-482-31		100uH		R11	1-216-079-00	METAL CHIP	18K	5%	1/10W
	L2	1-410-482-31		100uH (UK, G, IT))	D10	1 916 027 00	METAL CILL	220	E 0/	(UK, G, IT)
	L21 L22	1-407-500-00 1-410-509-11		4.7mH 10uH (UK,G,IT)		R12	1-216-037-00	METAL CHIP	330	5%	1/10W (UK, G, IT)
	L61	1-408-425-00		220uH		R13	1-216-047-91	METAL GLAZE	820	5%	1/10W
											(UK, G, IT)
	L151	1-410-509-11		10uH (UK, G, IT)		R14	1-216-083-00	METAL CHIP	27K	5%	1/10W
	L161	1-410-509-11	INDUCTOR	10uH (UK, G, IT)		R15	1-216-073-00	METAL CHIP	10K	5%	(UK, G, IT) 1/10W
			< FILTER >			NIO	1 210 010 00	WILLIAM CHILL	1011	070	(UK, G, IT)
									4 877	=0/	1 /1 OW
			FILTER, LOW PA			R16	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (UK, G, IT)
	LPF22	1-235-104-00	FILTER, LOW PA	199	ļ	 R21	1-249-404-00	CARBON	82	5%	1/4W F
			< TRANSISTOR >	•		R22	1-216-081-00		22K	5%	1/10W
			· 11011010101			R23		METAL GLAZE	1K	5%	1/10W
	Q1	8-729-230-99	TRANSISTOR 2	SC2669-0Y		R24	1-216-085-00		33K	5%	1/10W
	Q2	8-729-230-99		2SC2669-0Y							
	Q3	8-729-230-99		2SC2669-OY (UK, G,		R25	1-216-071-00			5%	1/10W
	Q4	8-729-230-99		2SC2669-OY (UK, G,	IT)	R27	1-216-079-00		18K	5%	1/10W
	Q21	8-729-901-40	TRANSISTOR 2	SC1740S-QT		R29	1-216-073-00		10K	5%	1/10W
	000	0 700 001 10	mpanoromon (2001#400 0#		R31	1-216-041-00		470	5%	1/10W
	Q22	8-729-901-40		SC1740S-QT		R32	1-216-073-00	WEIAL CHIP	10K	5%	1/10W
	Q26	8-729-900-80		OTC114ES		poo	1-216-073-00	מוטי וגידאו	1 N V	5%	1/10W
	Q27 Q28	8-729-119-78 8-729-119-78		2SC2785-HFE 2SC2785-HFE		R33 R34	1-216-073-00		10K 4. 7K		1/10W
	W _U U	0 120 110 10	IMMODDION A	2002100 111.0	1	NO T	1 110 000 00	, marine Oilli	T. 111	J/0	_/ ***

TUNER (New)

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Rei	nark
R35	1-216-089-91	METAL GLAZE	47K 5%	1/10W		1-249-405-11	CARBON	100 5%	1/4W	F
R36		CONDUCTOR, CHIP				1-216-061-00		3. 3K 5%	1/10W	
R37	1-216-097-91		100K 5%	1/10W	R112	1-216-043-91		560 5%	1/10W	
R38	1-216-105-91		220K 5%	1/10W	R113	1-216-049-91		1K 5%	1/10W	
R39	1-216-057-00	METAL CHIP	2. 2K 5%	1/10W	R114	1-216-035-00	METAL CHIP	270 5%	1/10W	
R40	1-216-055-00	METAL CHIP	1.8K 5%	1/10W	R115	1-216-081-00	METAL CHIP	22K 5%	1/10W	
R41	1-216-067-00	METAL CHIP	5.6K 5%	1/10W	R116	1-216-057-00	METAL CHIP	2. 2K 5%	1/10W	
R42	1-216-097-91	METAL GLAZE	100K 5%	1/10W	R117	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	
R43	1-216-105-91		220K 5%	1/10W	R118	1-216-025-91		100 5%	1/10₩	
R44	1-216-057-00	METAL CHIP	2. 2K 5%	1/10W	R151	1-216-295-91	CONDUCTOR, CHIP	(2012)		
R45	1-216-055-00	METAL CHIP	1.8K 5%	1/10W	R152		CONDUCTOR, CHIP			
R46	1-216-067-00	METAL CHIP	5.6K 5%	1/10W	R153		CONDUCTOR, CHIP			
<u> </u>	1-249-409-11		220 5%	1/4W F	R154	1-216-295-91	CONDUCTOR, CHIP	(2012)		
R48	1-216-097-91		100K 5%	1/10W	B101 1	0.5				
R49	1-216-097-91	METAL GLAZE	100K 5%	1/10W	R161-1		CONDUCTOR, CHIP	(2012)		
R61	1-216-097-91	METAL GLAZE	100K 5%	1/10W		1 210 233 31	composition, chili	(2012)		
R62	1-216-089-91		47K 5%	1/10W			< VARIABLE RESIS	STOR >		
R64	1-216-081-00		22K 5%	1/10W						
R65	1-216-089-91		47K 5%	1/10W	RV21	1-241-762-11	RES, ADJ, CARBOI		0.00040	1 m 1 O 1 1)
R66	1-216-121-91	METAL GLAZE	1M 5%	1/10W	DMOO	1 041 705 11	DEC ANT CARRO	•	O SEPAR	ATTON)
R67	1-216-097-91	METAL CLAZE	100K 5%	1/10W	RV22 RV24		RES, ADJ, CARBOI			
R68	1-216-083-00		27K 5%	1/10W	11124	1-241-705-11	REO, ADJ, CARDO	N ZZIL (I'M I	UNLD)	
R69	1-216-081-00		22K 5%	1/10W			< TRANSFORMER >			
R70	1-216-041-00		470 5%	1/10W						
R71	1-216-057-00	METAL CHIP	2.2K 5%	1/10W	T21		TRANSFORMER, DI			
					T23	1-235-126-00	ENCAPSULATED CO	MPONENT (UK	, G, IT)	
R72	1-216-081-00		22K 5%	1/10W			/ TEDMINAL >			
R73 R74	1-216-065-00 1-216-073-00		4.7K 5% 10K 5%	1/10\ 1/10\			< TERMINAL >			
R75	1-216-065-00		4. 7K 5%	1/10W	* TM1	1-537-138-31	TERMINAL BOARD	(ANTENNA)		
R81	1-216-049-91		1K 5%	1/10W	, ,,,,,,	1 001 100 01	IDAMITAND DOING	()		
			*** ***				< TEST PIN >			
R82	1-216-049-91		1K 5%	1/10W	# TD1	1 560 060 00	DIN CONNECTOR	(ז ז ז ז אין א		
R83 R84	1-216-049-91 1-216-049-91		1K 5% 1K 5%	1/10W 1/10W	* TP1	1-200-000-00	PIN, CONNECTOR	ZP (NULL)		
R85	1-216-049-91		10K 5%	1/10W			< VIBRATOR >			
R86	1-216-049-91		1K 5%	1/10W			· · · · · · · · · · · · · · · · · · ·			
					XT81	1-577-126-21	VIBRATOR, CRYST.	AL (7.2MHz)		
R88	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	******	******	******	*****	*****	****
R89	1-216-049-91		1K 5%	1/10W						
R90	1-216-073-00		10K 5%	1/10W			MISCELLANEOUS			
R91	1-216-049-91		1K 5%	1/10W			*****			
<u></u> R92	1-249-401-11	CARBON	47 5%	1/4W F		1_575_651_11	CORD, POWER (AE	P) (Former	Type)	
R101	1-216-061-00	METAL CHIP	3. 3K 5%	1/10W	<u></u> <u>∧</u> 13		CORD, POWER (AE			
R101	1-216-043-91		560 5%	1/10W	<u>113</u>		CORD, POWER (UK		" TJPC)	
R103	1-216-049-91		1K 5%	1/10W			INDICATOR TUBE,		T	
R104	1-216-035-00		270 5%	1/10W			TRANSFORMER, PO			
R105	1-216-065-00	METAL CHIP	4.7K 5%	1/10W				(mrnrr		
D100	1 916 057 00	METAL CULD	9 917 FW	1 /10₩			ENCODER, ROTARY		KEA/	
R106 R107	1-216-057-00 1-216-065-00		2. 2K 5% 4. 7K 5%	1/10W 1/10W	S1	1-554-920-21	SWITCH, PUSH (A		(Former	Type
R108	1-216-005-00		100 5%	1/10W					(1 01 11101	1300)
R100	1-216-065-00		4. 7K 5%	1/10W	[
	000			•	I					

Ref. No.	Part No.	Description Remark
S1	1-572-267-51	SWITCH, PUSH (AC POWER) (1 KEY) (New Type)
******	******	***********
		S & PACKING MATERIALS ***************
	1-501-374-11 1-501-594-11 1-558-233-11	ANTENNA (FM) (Former Type) ANTENNA, LOOP ANTENNA (FM) (New Type) CORD (WITH CONNECTOR) (SIRCS) 4P CORD, CONNECTION (Former Type)
*		CORD, CONNECTION (New Type) SHEET (STANDARD) , PROTECTION
		MANUAL, INSTRUCTION (AEP, UK, IT) (ENGLISH/FRENCH/SPANISH/ITALIAN) MANUAL, INSTRUCTION (AEP, G)
*		(DUTCH/SWEDISH/PORTUGUESE/GERMAN) SHEET (ROLL), PROTECTION (New Type)
*		CUSHION (Former Type)
*		CUSHION (New Type) INDIVIDUAL CARTON (New Type)
*	4-944-049-11	INDIVIDUAL CARTON (New Type) INDIVIDUAL CARTON (Former Type)
******	******	***********

#1 #1 #2 #3 #4	4-951-620-01 7-685-646-79 7-682-550-04	SCREW (PANEL 2.6 TP2) (Former Type) SCREW (2.6×8), +BVTP (New Type) SCREW +BVTP 3×8 TYPE2 N-S SCREW +BVTT 3×12 (S) SCREW +BVTP 3×8 TYPE2 (Former Type)
#4 #5 #6	7-685-871-01	SCREW +BVTP 3×8 TYPE2 (New Type) SCREW +BVTT 3×6 (S) SCREW (BV/RING) (New Type)