TA-F311R/F411RA

SERVICE MANUAL



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AEP Model

AEP Model UK Model

TA-F411R



SPECIFICATIONS

Amplifier

by WWW. FREESERVICEMANUALS. INFO

Continuous RMS power output (both channels driven simultaneously)

	الأمنين	TA-F311R	TA-F411RA
DIN, 1 kHz	4 ohms 8 ohms	40 W + 40 W	70 W + 70 W
20 Hz – 20 kHz THD 0.05%	8 ohms	30 W + 30 W	50 W + 50 W

Input

Input jack	Jack type	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	Phono	2.0 mV	50 kohms	70 dB (A, 2 mV)
TUNER, CD, VIDEO/AUX, TAPE 1, TAPE 2/DAT	Phono	150 mV	50 kohms	100 dB (150 mV)

Output

Output jack	Jack type	Voltage/impedance
REC OUT	Phono jacks	Voltage 150 mV Impedance 1 kohms
SPEAKERS	is with EEO D	TA-F411RA Accepts speakers of 4 – 6 ohms/8 – 16 ohms TA-F311R Accepts speakers of 8 – 16 ohms.
HEAD- PHONES	Stereo phone jack	Accepts low and high impedance headphones.

Tone controls

	Response	Turnover frequency
BASS	±8 dB (100 Hz)	500 Hz
TREBLE	±8 dB (15 kHz)	3 kHz

-Continued on page 2-



INTEGRATED STEREO AMPLIFIER SONY.

Harmonic distortion TA-F311R/F411RA:

Less than 0.05% at rated output Intermodulation (IM) distortion (60 Hz:7 kHz = 4:1)

Less than 0.05% at rated output Frequency response

PHONO: RIAA equalization curve

±0.5 dB

TUNER, CD, VIDEO/AUX, TAPE 1, TAPE 2/DAT: 7 Hz - 100 kHz ±3 dB

Residual noise Damping factor Less than 170 µV (network A)

40 (8 ohms, 1 kHz)

General

Preamplifier: Low-noise, high-gain System

equalizer amplifier

Power amplifier: Pure-complementary SEPP OCL power amplifier with all

stages directly coupled

Power requirements AEP model: 220 V AC, 50 Hz

UK model: 240 V AC, 50 Hz

Power consumption AEP model

TA-F311R: 90 W TA-F411RA: 150 W UK model

TA-F411RA: 380 W

Dimensions

Approx. $430 \times 135 \times 315$ mm (w/h/d)

 $(17 \times 5^{3}/_{8} \times 12^{1}/_{2} \text{ inches})$

Weight

TA-F311R: Approx. 5.9 kg (13 lb 1 oz) TA-F411RA: Approx. 7.4 kg

(16 lb 5 oz)

Accessories

Remote commander RM-S310 (1) Sony SUM-3 (NS) batteries (2)

Design and specifications subject to change without notice.

Note

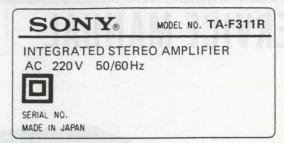
This appliance conforms with EEC Directive, 87/308/EEC regarding interference suppression.

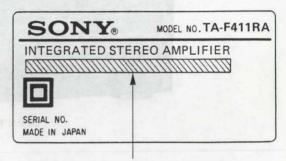
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A 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 PUB-LISHED BY SONY.

MODEL IDENTIFICATION

-Specification Label-





AEP Model: AC: 220 V ~ 50/60 Hz UK Model: AC: 240 V ~ 50/60 Hz

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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INPUT SELECTOR and MONITOR 10 REC OUT (Recording output) SELECTOR

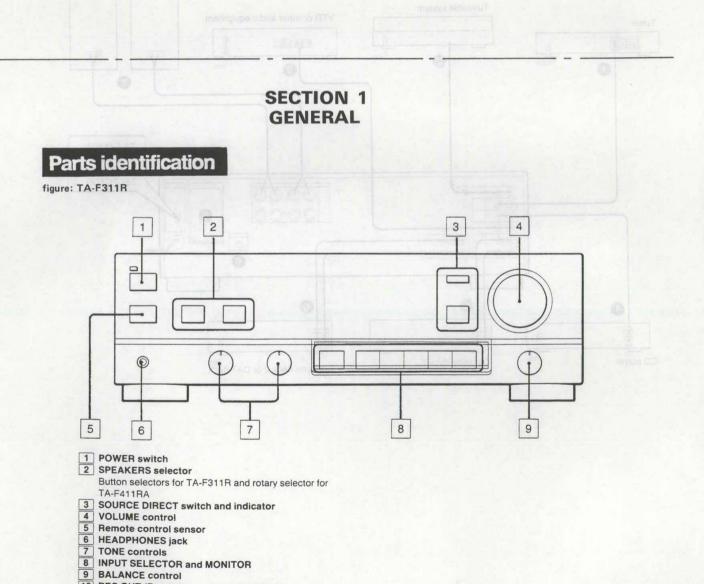
(TA-F411RA only)



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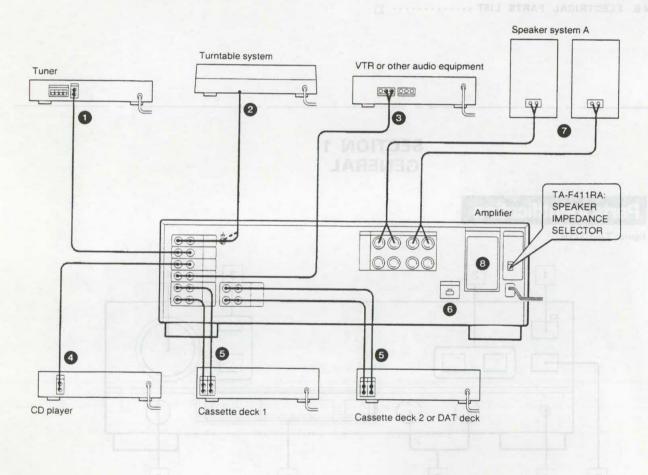
by WWW. FREESERVICEMANUALS. INFO

Notes on Connection

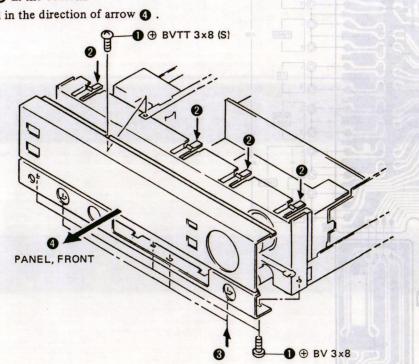
- · Connect the AC power cord last. Make sure power is off.
- Cord plugs and jacks are color coded. Red plugs and jacks are for right channel (R) and white ones for left channel (L).
- Fully insert cable connectors into jacks. Loose connections may cause hum or noise.

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- 1. Remove screws 1 x4.
- 2. Push leaves 2 down to release 4 claws.
- 3. Release claws 3 in the bottom.
- 4. Pull front panel in the direction of arrow 4.



SECTION 2

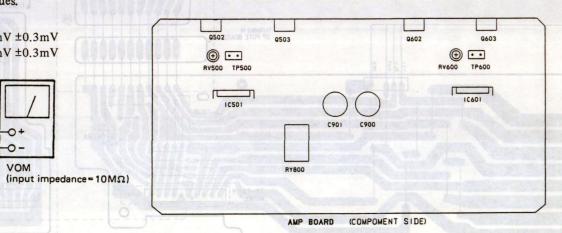
DISASSEMBLY

SECTION 3 **ADJUSTMENTS**

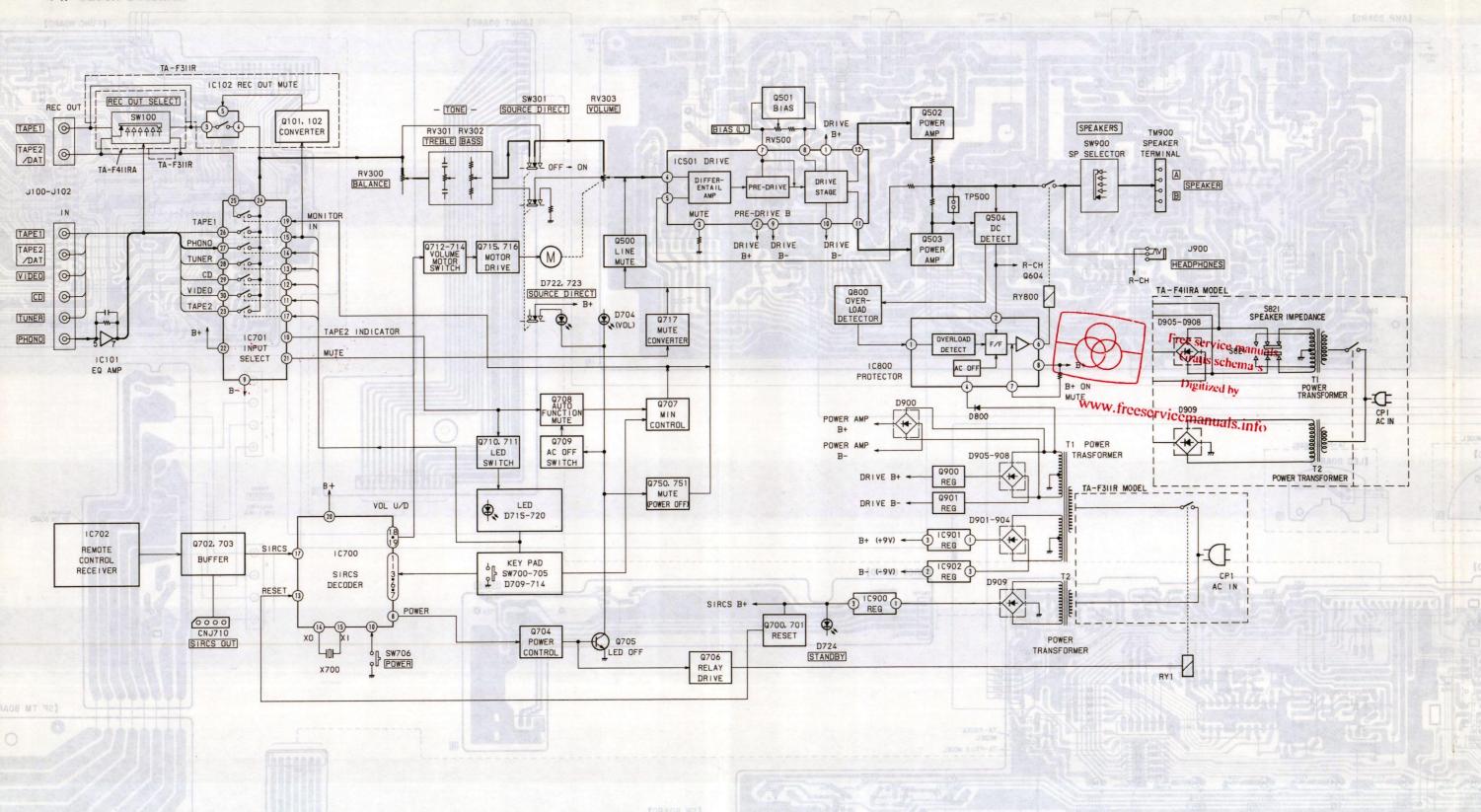
Procedure:

- 1. Set main volume to minimum.
- 2. Turn the power on and confirm that RY800 will turn on at about 6 seconds after power-on.
- 3. Adjust RV500(L-ch) and RV600(R-ch) so that the voltages across TP500 and TP600 become within the adjustment values.

Adjustment Values: TA-F311R 4mV ±0.3mV TA-F411RA 2mV ±0.3mV



4-1. BLOCK DIAGRAM

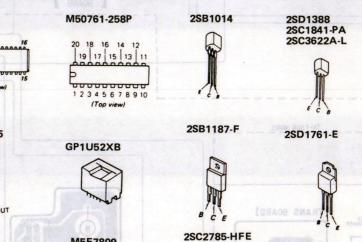


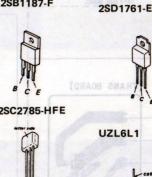
PC BOARD, 4-8 SWITCH (F411RA) PC BOARD, SP ROTE (F411RA) (including ●E)/ PC BOARD, SIRCS PC BOARD, JOINT L-----J PC BOARD, SEALED MOUNTED PCB, CONT MOUNTED PCB, FUNC PC BOARD, SW PC BOARD, LED (F411RA)
PC BOARD, VOL LED (S) (F311R) 4-3. SEMICONDUCTOR LEAD LAYOUTS

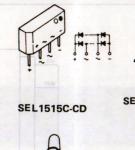
PC BOARD, TRANS (B) (F411RA)

M5218L UPC1237HA

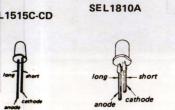
4-2. CIRCUIT BOARDS LOCATION

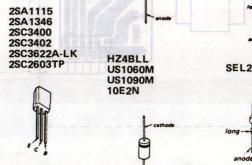


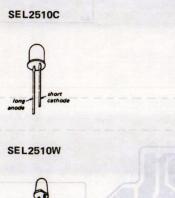




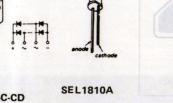
RBA402 RBV-602-01

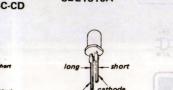


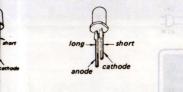


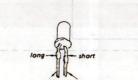


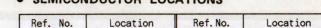










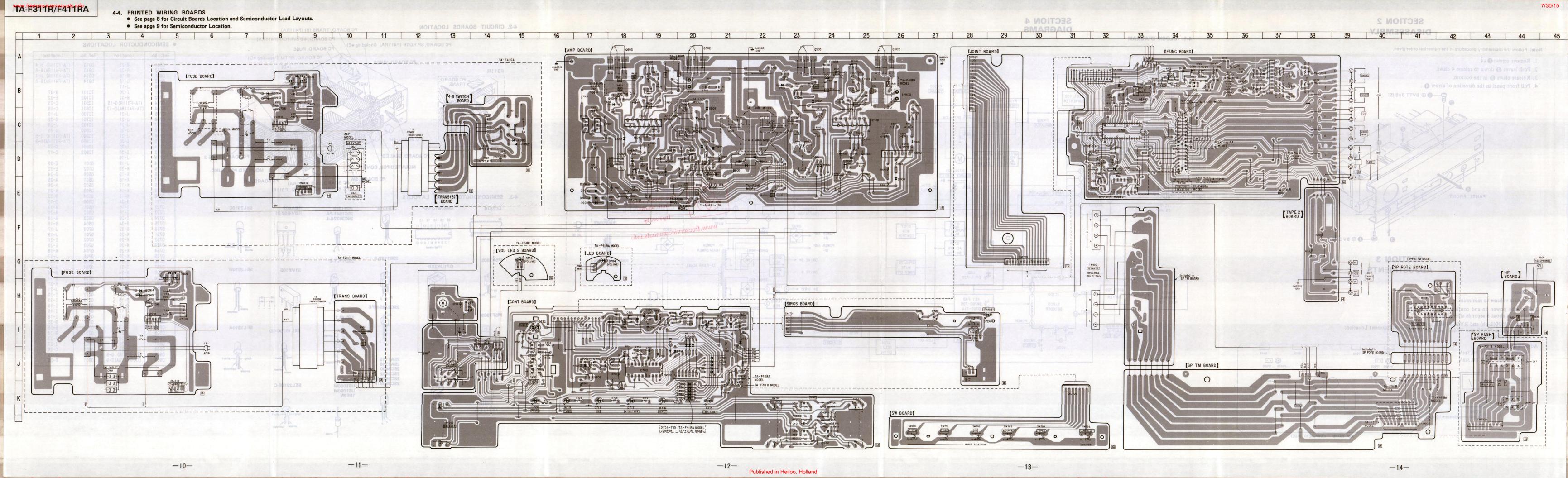


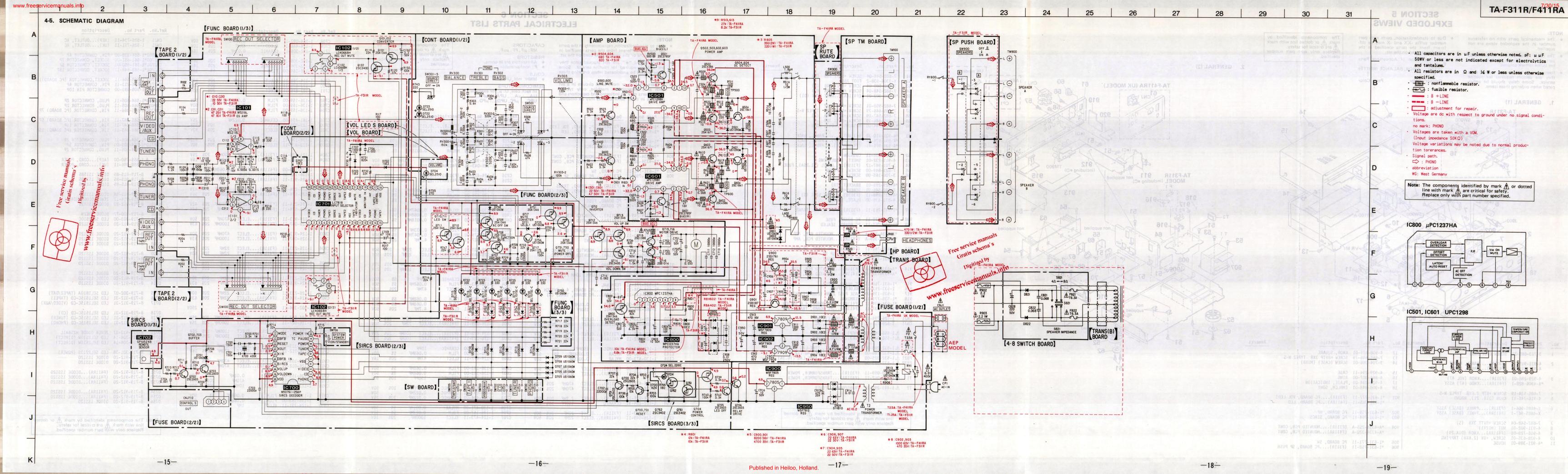
B-23

TA-F311R/F417RA

D913 (TA-F311R) H-4

D502 D502 D601 D602	2 B-23 1 B-18 2 C-18	D913 D913 D914 D914	(TA-F311R) H-4 (TA-F311R) H-4 (TA-F411RA) B-8
D700 D701 D702 D704	I I-20 B-32 (TA-F311R) G-		B-37 E-32 C-25 C-18
D704 D705 D706 D707 D708	J-21 J-21 J-21	10700 10701 10702 10800	J-19 C-32 J-28 D-26
D709 D710 D711 D712	J-21 I-20 I-20	IC900 IC900 IC901 IC902	(TA-F311R) I-5 (TA-F411RA) B-9 C-17 C-17
D713 D714 D715 D716	J-19 J-19 K-20	Q101 Q102 Q500	E-32 E-32 D-24
D717 D718 D719 D720	7 K-18 K-17 K-16	Q501 Q502 Q503 Q504	A-25 A-26 A-23 B-23
D721 D722 D723	I-16 I-15	Q600 Q601 Q602 Q603	D-18 A-19 A-20 A-18
D725 D750 D751 D752	D-32 K-20 K-20	Q604 Q700 Q701 Q702	B-18 J-17 J-18 I-21
D753 D754 D755 D756	K-20 K-20 B-35	Q703 Q704 Q705 Q706	I-20 K-18 J-17 H-4
D757 D758 D800 D801	A-34 E-26 D-24	Q707 Q708 Q709 Q710	B-34 K-21
D802 D821 D822 D900	C-15 D-15 D-21	Q711 Q712 Q713 Q714	J-21 I-20 I-20 I-19
D901 D902 D903 D904	E-17 E-17 E-17	Q715 Q716 Q717 Q750	I-19 I-18 B-35 B-35
D905 D906 D907 D908	C-20 D-20 C-20	Q751 Q761 Q762 Q800	B-34 I-27 I-27 C-26
D909 D909			D-19 D-20





SECTION 5 EXPLODED VIEWS

Due to standardization, parts with part

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

- The construction parts of an assembled part are indicated with a collation num-
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

TA-F311R

ber in the remark column.

1. GENERAL (1)

No. Part No.

Description

4-931-915-32 (F311R)....PANEL, FRONT 4-931-915-21 (F411RA)...PANEL, FRONT

3 4-929-288-01 (F311R)...KNOB (VOL 47)

4-916-746-11 KNOB (DIA. 21), ROUND

7-682-548-04 SCREW +BYTT 3X8 (S)

4-916-729-01 (F411RA)...KNOB (DIA.29) 4-928-635-01 SCREW, +BV (2.6X8) TAPPING

4-931-902-01 NUT (M12X1)

*4-921-389-01 HOUSE

*X-4906-828-1 (F411RA)...KNOB (47) ASSY

7-685-534-19 SCREW +BTP 2.6X8 TYPE2 N-S

X-4885-966-1 (F311R)....PANEL (BASE) ASSY X-4885-967-1 (F411RA)...PANEL (BASE) ASSY

1 3-703-685-21 SCREW (+BV 3X8)

number suffix -XX and -X may be different from the parts specified in the components used on the set.

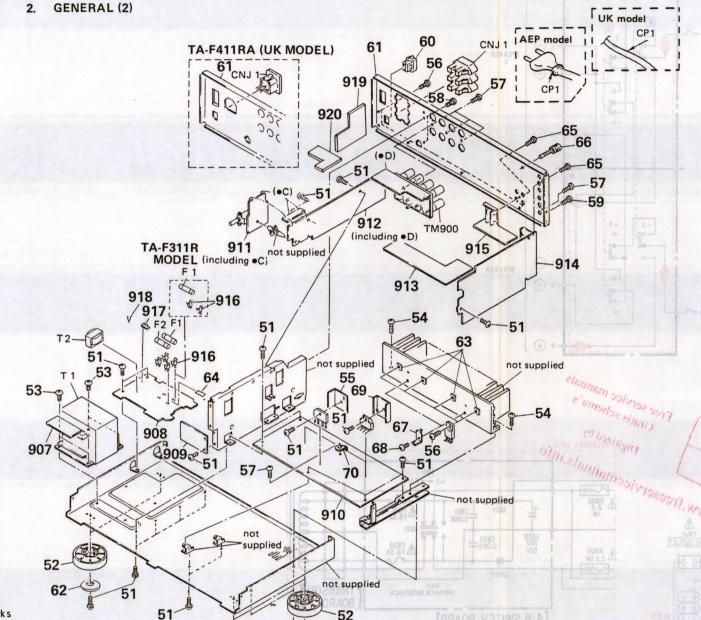
specified. Color Indication of Appearance Parts Example: (RED) ... KNOB, BALANCE (WHITE)

Parts Color

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

Whitehille

2. GENERAL (2)



SECTION 6 ELECTRICAL PARTS LIST

SOR THE MODEL OF STREET TA-FRIEND SOR	가는 이 그 만든 아내는 내 사용을 열려졌다면서 사이를 가지면 하는데 나를 하는데 사용을 하는데		CONT BOARD	C708 1-164-097-11	CERAMIC 0.022MF	WE ARREST SOV
	list may be different from the parts specified in MF:	TORS: μF, PF: μμF.	The components identified by mark or dotted line with mark are critical for safety.	C709 1-124-446-11 C711 1-162-306-11	ELECT 47MF	20% 10V 20% 16V
No. Part No. Description Remarks	● Items marked "★" are not stocked since they ● All r	ORS esistors are in ohms. onflammable	Replace only with part number specified.	C712 1-162-306-11 C713 1-162-306-11 C714 1-136-164-00	CERAMIC 0.01MF	20% 16V 20% 16V 5% 50V
51	If there are two or more same circuits in a set such as a stereophonic machine, only typical In each of the state of the s	H: mH, UH: μΗ BABBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	BALA BIT43 OFF ON 220 OFF ON	C716 1-124-768-11 C750 1-123-875-11 C751 1-123-875-11	ELECT 10MF	20% 50V 20% 50V 20% 50V
55 *4-931-903-01 (F411RA)HEAT SINK (D1) 56 7-682-950-01 SCREW +PSW 3X12 57 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S	resistors in other same circuits may be omitted	.: μΑ, UPA: μPA, : μPC, UPD: μPD	0.651.73 (B) 13.00M (B) 14.74 (B) 13.00M	C752 1-136-159-00 C753 1-136-159-00 C754 1-136-159-00	FILM 0.033MF	5% 50V 5% 50V 5% 50V
58	Ref.No. Part No. Description 901 *1-631-777-11 (F311R)PC BOARD, VOL LEDS	C211 1-124-477-11 (F	F311R)ELECT 47MF 20% 16V	C756 1-161-494-00 C800 1-123-875-11 C801 1-124-925-11	ELECT 10MF	25 V 20% 50 V 20% 50 V
61 *4-931-910-32 (F311R)PANEL, BACK *4-931-975-21 (F411RA:AEP)PANEL, BACK *4-931-975-41 (F411RA:UK)PANEL, BACK	*1-631-765-11 (F411RA)PC BOARD, LED 902 *1-631-759-11 PC BOARD, HP 903 *1-631-764-11 PC BOARD, SIRCS	C211 1-126-022-11 (F C212 1-162-284-31 CE C213 1-130-480-00 MY		C802 1-126-176-11 C803 1-123-875-11	ELECT 220MF	20% 6.3V 20% 50V
62 4-923-836-11 CUSHION 63 4-911-232-01 SHEET, INSULATING	904 *A-4334-255-A (F311R)MOUNTED PCB, CONT *A-4334-320-A (F411RA)MOUNTED PCB, CONT	C214 1-130-473-00 MY C215 1-124-902-00 (F	/LAR 0.0015MF 5% 50V 5311R)ELECT 0.47MF 20% 50V	C804 1-124-478-11	(F311R)ELECT 10	00MF 20% 25V 00MF 20% 16V
64 3-701-947-12 (F311R)LABEL (T1.25A), FUSE 65 7-621-849-00 SCREW, TAPPING 66 3-706-165-00 SCREW	905 *1-631-771-11 PC BOARD, SW 906 *1-631-758-11 (F311R)PC BOARD, SP PUSH	C215 1-126-043-11 (F	F311R)ELECT 470MF 20% 10V	C822 1-136-163-00	(F411RA)FILM 0.	.068MF 5% 50V .068MF 5% 50V 20MF 20% 50V
67 *4-929-285-01 BRACKET (TR) 68 7-682-546-01 SCREW +B 3X5 69 *4-931-998-11 (F311R)HEAT SINK (S)	907 *1-631-763-11 (F311R)PC BOARD, TRANS *1-634-635-11 (F411RA)PC BOARD, TRANS (A)	C216 1-124-997-11 (F C301 1-130-481-00 MY C302 1-130-474-00 MY	YLAR 0.0068MF 5% 50V	C900 1-126-224-11	(F311R)ELECT 47	700MF 20% 42V 20MF 20% 56V
70 4-870-539-00 PLATE, GROUND 907 *1-631-763-11 (F311R)PC BOARD, TRANS	908 *1-631-770-11 PC BOARD, FUSE 909 *1-631-767-11 PC BOARD, SEALED	C303 1-136-159-00 FI C304 1-130-479-00 MY	ILM 0.033MF 5% 50V /LAR 0.0047MF 5% 50V			700MF 20% 42V 20MF 20% 56V
908 *1-631-770-11 PC BOARD, FUSE 909 *1-631-767-11 PC BOARD, SEALED	910 *A-4334-249-A (F311R)MOUNTED PCB, AMP *A-4334-309-A (F411RA)MOUNTED PCB, AMP 911 *1-631-761-11 (F411RA)PC BOARD, SP ROTE	C401 1-130-481-00 MY C402 1-130-474-00 MY C403 1-136-159-00 FI	7LAR 0.0018MF 5% 50V			70MF 20% 50V 000MF 20% 63V
910 *A-4334-249-A (F311R)MOUNTED PCB, AMP *A-4334-309-A (F411RA)MOUNTED PCB, AMP	912 *1-631-760-11 PC BOARD, SP TM 913 *1-631-762-11 PC BOARD, JOINT	C404 1-130-479-00 MY C500 1-124-927-11 EL	/LAR 0.0047MF 5% 50V	C903 1-126-067-11	(F411RA)ELECT 10	70MF 20% 50V 000MF 20% 63V
911 *1-631-761-11 (F411RA)PC BOARD, SP ROTE 912 *1-631-760-11 PC BOARD, SP TM 913 *1-631-762-11 PC BOARD, JOINT	914 *A-4334-253-A (F311R)MOUNTED PCB, FUNC *A-4334-317-A (F411RA)MOUNTED PCB, FUNC	C501 1-126-233-11 (F C501 1-126-049-11 (F	F411RA)ELECT 22MF 20% 50V	C904 1-124-916-11	(F311R)ELECT 22 (F411RA)ELECT 22	2MF 20% 63V
914 *A-4334-253-A (F311R)MOUNTED PCB, FUNC *A-4334-317-A (F411RA)MOUNTED PCB, FUNC	915 *1-631-768-11 PC BOARD, TAPE2 916 1-533-213-31 HOLDER, FUSE 917 1-535-139-00 BASE POST 22MM (10MM PITCH) 2P	C502 1-124-478-11 (F C502 1-126-023-11 (F C503 1-101-804-00 CE	F411RA)ELECT 100MF 20% 25V	C905 1-124-916-11	(F311R)ELECT 22 (F411RA)ELECT 22 (F311R)ELECT 22	2MF 20% 63V
915 *1-631-768-11 PC BOARD, TAPE2 916 1-533-213-31 HOLDER, FUSE 917 1-535-139-00 BASE POST 22MM (10MM PITCH) 2P	918 *1-535-771-11 TERMINAL 919 *1-634-634-11 (F411RA)PC BOARD, 4.8 SWITCH 920 *1-634-637-11 (F411RA)PC BOARD, TRANS (B)	C504 1-136-163-00 FI C505 1-124-477-11 EL	ILM 0.068MF 5% 50V	C906 1-124-916-11 C907 1-126-233-11	(F411RA)ELECT 22	2MF 20% 63V 2MF 20% 50V
918 *1-535-771-11 TERMINAL 919 *1-634-634-11 (F411RA)PC BOARD, 4.8 SWITCH 920 *1-634-637-11 (F411RA)PC BOARD, TRANS (B)	C1 1-161-744-00 CERAMIC 0.01MF 400V C108 1-162-284-31 CERAMIC 150PF 10% 50V	C506 1-136-163-00 FI C507 1-136-163-00 FI C600 1-124-927-11 EL	LM 0.068MF 5% 50V	C907 1-124-916-11 C908 1-102-394-11	(F411RA)ELECT 22 CERAMIC 0.01MF	2MF 20% 63V 250V
CNJ1 1-526-794-11 (AEP)OUTLET, AC CNJ1 1-526-751-11 (UK)OUTLET, AC	C110 1-126-233-11 (F311R)ELECT 22MF 20% 50V C110 1-126-049-11 (F411RA)ELECT 22MF 20% 50V	C601 1-126-233-11 (F C601 1-126-049-11 (F	7311R)ELECT 22MF 20% 50V 7411RA)ELECT 22MF 20% 50V	C910 1-126-027-11		000MF 20% 25V
CP1	C111 1-124-477-11 (F311R)ELECT 47MF 20% 16V C111 1-126-022-11 (F411RA)ELECT 47MF 20% 25V	C602 1-124-478-11 (F C602 1-126-023-11 (F	F411RA)ELECT 100MF 20% 25V	C911 1-126-027-11	(F311R)ELECT 10((F411RA)ELECT 10((F311R)ELECT 47)	000MF 20% 25V
F1	C112 1-162-284-31 CERAMIC 150PF 10% 50V C113 1-130-480-00 MYLAR 0.0056MF 5% 50V C114 1-130-473-00 MYLAR 0.0015MF 5% 50V	C603 1-101-804-00 CE C604 1-136-163-00 FI C605 1-124-477-11 EL	LM 0.068MF 5% 50V	C912 1-126-012-11		70MF 20% 16V
T1 A.1-450-059-11 (F311R)TRANSFORMER, POWER T1 A.1-450-062-11 (F411RA)TRANSFORMER, POWER	C115 1-124-902-00 (F311R)ELECT 0.47MF 20% 50V C115 1-126-043-11 (F411RA)ELECT 0.47MF 20% 50V	C606 1-136-163-00 FI C607 1-136-163-00 FI C700 1-162-284-31 CE	LM 0.068MF 5% 50V	C913 1-126-012-11 C914 1-136-153-00	(F411RA)ELECT 47	70MF 20% 16V 5% 50V
T2 A.1-449-297-11 TRANSFORMER, POWER	C116 1-124-472-11 (F311R)ELECT 470MF 20% 10V C116 1-124-997-11 (F411RA)ELECT 470MF 20% 10V	C701 1-162-284-31 CE C702 1-164-097-11 CE	RAMIC 0.022MF 10% 50V 50V	C915 1-124-480-11 1-123-875-11 C919 1-136-163-00	ELECT 10MF	20% 25V 20% 50V
Note: The components identified by mark A or dotted	C150 1-124-925-11 (F311R)ELECT 2.2MF 20% 50V C208 1-162-284-31 CERAMIC 150PF 10% 50V C210 1-126-233-11 (F311R)ELECT 22MF 20% 50V	C703 1-161-494-00 CE C704 1-130-471-00 MYI C706 1-136-157-00 FII	LAR 0.001MF 5% 50V	C920 1-136-163-00 C950 1-124-791-11	FILM 0.068MF	5% 50V 20% 50V
line with mark / are critical for safety.	C210 1-126-233-11 (F311R)ELECT 22MF 20% 50V C210 1-126-049-11 (F411RA)ELECT 22MF 20% 50V	C707 1-124-473-11 EL				[(2/2)]

-	The same of the sa	A STATE OF THE PARTY OF THE PAR						
	C708	1-164-097-11	CERAMIC 0.022	MF ASIAN AND AND AND AND AND AND AND AND AND A	50V	CNJ1 1-52	6-794-11	(AEP)OUTLET, AC
DNOTSHOP	C709	1-124-446-11		20%	10V	CNJ1 1-52	6-751-11	(UK)OUTLET. AC
EXCLUSION.	C711		CERAMIC 0.01M		16V	STARTS		
	CILL	1-102-300-11	CERAMIC 0.01	11 20%	101	CNJ500*1-56	4_338_00	PIN, CONNECTOR 4P
				- 000	161	CNJ700*1-56		
	C712	1-162-306-11			16V			
	C713	1-162-306-11			16V	CNJ701*1-56		
	C714	1-136-164-00	FILM 0.082	2MF 5%	50V	CNJ702*1-56	8-648-11	SOCKET, CONNECTOR 15P
	C716	1-124-768-11	ELECT 4.7MF	20%	50V	CNJ703 1-56	8-646-11	SOCKET, CONNECTOR (PC BOARD)15P
	C750	1-123-875-11	ELECT 10MF	20%	50V	CNJ710 1-56		
						CNJ900 1-50		
	C751	1-123-875-11	ELECT 10MF	20%	50V	CN0300 1-30	0-033-00	CONNECTOR FIN TOP
	C752	1-136-159-00	FILM 0.033	BMF 5%	50V	CNP500*1-56	4-505-11	PLUG. CONNECTOR 2P
	C753	1-136-159-00			50V	CNP600*1-56		
	C754	1-136-159-00			50V	CNP700*1-56		PIN, CONNECTOR (PC BOARD) 7P
	6/54	1-130-139-00	FILM 0.03.	DIFIE 36	304	CNP/00-1-50	5-300-11	PIN, CONNECTOR (PC BOARD) /P
	C756	1-161-494-00	CERAMIC 0.022	MF	25V	CNP701*1-56	5-367-11	PIN, CONNECTOR (PC BOARD) 5P
	C800	1-123-875-11		20%	50V	CNP702*1-56		
	C801	1-124-925-11			50V	CNP703 1-56		
	0001	1-124-323-11	2.2/11	20%	301	CNF703 1-30	0-045-11	IIN, CONNECTOR (FC BOARD) 15F
	C802	1-126-176-11	ELECT 220MF	20%	6.3V	CNP704*1-56	4-505-11	PLUG, CONNECTOR 2P
	C803	1-123-875-11	ELECT 10MF	20%	50V	CNP710*1-56	4-339-00	PIN, CONNECTOR 5P
*)-F				PLUG, CONNECTOR 2P
33	C804	1-124-478-11	(F311R)ELECT	100MF 20%	25V	Shirt Institute		
20	C804	1-126-101-11	(F411RA)ELECT	100MF 20%		CP1 A.1-55	5-750-00	(AEP)CORD, POWER
	000.	1 1000				CP1 A 1-55		(UK)CORD, POWER
1	C821	1-136-163-00	(F411RA)FILM	0.068MF 5%	50V	9018	0-540-11	(OK)COND, FOREK
小	C822		(F411RA)FILM	0.068MF 5%	50V		9-815-85	DIODE 1S1585
1. 3	C823	1-124-911-11	(F411RA)ELECT	220MF 20%			9-815-85	DIODE 151585
	6023	1-124-911-11	(F411KA)ELECT	220MF 20%	0.504		9-815-85	DIODE 151585
	C900	1-126-224-11	(F311R)ELECT	4700MF 20%	42V	0001 0-/1	9-013-03	DIONE 121202
	C900	1-125-574-11	(F411RA)ELECT	820MF 20%		0602 8-71	9-815-85	DIODE 1S1585
	6900	1-125-5/4-11	(F4IIRA)ELECT	02UMF 20%	201			
	0001	1 100 004 11	(53115) 51507	470045 000	1011		9-914-12	
	C901	1-126-224-11	(F311R)ELECT	4700MF 20%		D701 8-71	9-912-20	DIODE 1SS120
	C901	1-125-574-11	(F411RA)ELECT	820MF 20%	56V	(9) (0)		
			10				9-200-77	DIODE 10E2N
	C902	1-124-913-11	(F311R)ELECT	470MF 20%			9-303-00	LED SEL2510C
THE PARTY	C902	1-126-067-11	(F411RA)ELECT	1000MF 20%	63V	D705 8-71	9-912-20	DIODE 1SS120
m 15	2002	1 104 010 11	(53115) 51507	47045 000	5011	T AUAN	9	
111	C903		(F311R)ELECT	470MF 20%			9-912-20	
	C903	1-126-067-11	(F411RA)ELECT	1000MF 20%	63V		9-912-20	DIODE 1SS120
						D708 8-71	9-912-20	DIODE 1SS120
	C904	1-126-233-11	(F311R)ELECT	22MF 20%		COLUMN TO THE REAL PROPERTY OF THE PERTY OF		2 1 1 7
	C904	1-124-916-11	(F411RA)ELECT	22MF 20%	63V		9-912-20	
1			19.			0710 8-71	9-912-20	DIODE 1SS120
	C905	1-126-233-11	(F311R)ELECT	22MF 20%	50V			DIODE 1SS120
	C905		(FALIDA) FLECT	22MF 20%	63V	The state of the s		

D754 8-719-912-20 (F411RA)...DIODE 1SS120 D755 8-719-912-20 (F411RA)...DIODE 1SS120 D756 8-719-912-20 DIODE 1SS120 Note: The components identified by mark / or dotted line with mark A are critical for safety.

Replace only with part number specified.

Part No.

15 4-929-294-11 CASE

4-864-307-00 RING

902 *1-631-759-11 PC BOARD, HP 903 *1-631-764-11 PC BOARD, SIRCS

4-908-875-01 KNOB, SQUARE 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S

14 3-704-366-01 SCREW (CASE) (M3X8)

4-929-284-01 PLATE, INDICATION

901 *1-631-777-11 (F311R)...PC BOARD, VOL LEDS *1-631-765-11 (F411RA)...PC BOARD, LED

904 *A-4334-255-A (F311R)...MOUNTED PCB, CONT *A-4334-320-A (F411RA)...MOUNTED PCB, CONT

905 *1-631-771-11 PC BOARD, SW 906 *1-631-758-11 (F311R)....PC BOARD, SP PUSH

4-908-848-01 EMBLEM, SONY

Published in Heiloo, Holland.

D713

8-719-912-20 DIODE 1SS120 8-719-912-20 DIODE 1SS120

8-719-302-07 LED SEL1810A (TAPE2/DAT) 8-719-312-31 LED SEL1515C-CD (TAPE1) 8-719-312-31 LED SEL1515C-CD (VIDEO/AUX)

8-719-312-31 LED SEL1515C-CD (CD) 8-719-312-31 LED SEL1515C-CD (TUNER) 8-719-312-31 LED SEL1515C-CD (PHONO)

8-719-912-20 (F411RA)...DIODE 1SS120

8-719-912-20 (F411RA)...DIODE 1SS120

8-719-912-20 (F411RA)...DIODE 1SS120

D721 8-719-933-33 ZENER DIODE HZS6AlL D722 8-719-304-14 LED SEL2510W (DIRECT) D723 8-719-304-14 LED SEL2510W (DIRECT)

D724 8-719-301-38 LED SEL2210S (POWER) 8-719-912-20 DIODE 1SS120 8-719-912-20 DIODE 1SS120

Dig	w.freeserv	ricemanuals.in	fo					T	A-F31	1R/	F411R
itize	Ref.No.	Part No.	Description			Ref.No.	Part No.	Descriptio	n ol		
d by W	D757 D758 D800	8-719-200-77 8-719-912-20 8-719-200-77	DIODE 1SS120 DIODE 10E2N			Q702 Q703 Q704	8-729-620-05 8-729-620-05 8-729-900-63	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2603- DTA124ES	EF	
WWW. FREE	D801 D802 D821	8-719-912-20 8-719-912-20 8-719-200-77	DIODE 1SS120			Q705 Q706 Q707 Q708	8-729-620-05 8-729-620-05 8-729-900-63 8-729-900-63	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2603- DTA124ES	EF	
W	D822 D900 D901	8-719-200-77 8-719-312-09 8-719-200-77	(F411RA)DIODE DIODE RBA-402 DIODE 10E2N			Q709 Q710 Q711	8-729-900-63 8-729-900-63 8-729-900-63	TRANSISTOR (F411RA) (F411RA)	DTA124ES	OR DT/	A124ES
ERVICEMANUALS	D902 D903 D904	8-719-200-77 8-719-200-77 8-719-200-77	DIODE 10E2N DIODE 10E2N DIODE 10E2N	1-269-623-1	TOVA LOVA	0712	8-729-900-63 18-729-900-63 8-729-900-36	TRANSISTOR TRANSISTOR	DTA124ES		1069
NUALS.	D905 D906 D907	8-719-200-77 8-719-200-77 8-719-200-77	DIODE 10E2N DIODE 10E2N DIODE 10E2N	10	60 g 60 g 60 g	Gratis schem 0715 Digiti 0716	8-729-111-29 8-729-118-01 8-729-119-76	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SD1616A 2SB1116	-K	
INFO	D908 D909 D913 D914	8-719-200-77 8-719-511-40 8-719-912-20 8-719-912-20	DIODE 10E2N DIODE S1VB40 DIODE 1SS120 DIODE 1SS120	www.	freeser	vicema(7,501s		TRANSISTOR TRANSISTOR TRANSISTOR	DTA124ES		
	F2 A F821 A	\(\lambda.1-532-285-00\) \(\lambda.1-532-286-00\) \(\lambda.1-532-325-00\) \(\lambda.1-532-325-00\)	(F311R)FUSE, (AEP)FUSE (F411RA)FUSE (F411RA)FUSE	, TIME-LAG (T2 , TIME-LAG (T6	.5A) .3A)	Q762 Q800 Q900 Q901	8-729-900-80 8-729-900-63 8-729-920-98 8-729-920-97	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	DTA124ES 2SD1761-	EF	
	IC102	8-759-600-02 8-759-800-37 8-759-109-06	IC LC4066BH IC UPC1298V			R102 R104 R108	1-249-417-11 1-249-417-11 1-249-418-11	CARBON CARBON CARBON	1K 1K 1.2K	5% 5% 5%	1/4W 1/4W 1/4W
	IC601 IC700 IC701	8-759-632-61	IC UPC1298V IC M50761-258P IC LC7818			R109 R111 R112	1-249-441-11 1-249-441-11 1-249-416-11	CARBON CARBON CARBON	100K 100K 820	5% 5% 5%	1/4W 1/4W 1/4W
	1C702 1C800 1C900	8-749-920-83 8-759-111-68 8-759-604-29				R113 R114 R115	1-247-897-11 1-249-437-11 1-249-441-11	CARBON CARBON CARBON	560K 47K 100K	5% 5% 5%	1/4W 1/4W 1/4W
		8-759-982-10 8-759-604-49 1-565-320-11	IC M5F7909 JACK, PIN 6P			R116 R117 R118	1-249-409-11 1-249-405-11 1-249-405-11	CARBON CARBON CARBON	220 100 100	5% 5% 5%	1/4W 1/4W 1/4W
	J101 J102 J900	1-568-529-21 1-507-863-51	JACK, PIN 4P JACK, LARGE TYP	E		R119 R120 R150	1-249-433-11 1-249-433-11 1-249-441-11	(F311R) (F311R) (F311R)	CARBON	22K 22K 100K	5% 1/4W 5% 1/4W 5% 1/4W
		*1-420-872-00 *1-420-872-00 8-729-900-63	COIL, AIR CORE TRANSISTOR DTA1	24ES		R202 R204 R208	1-249-417-11 1-249-417-11 1-249-418-11	CARBON CARBON CARBON	1K 1K 1.2K	5% 5% 5%	1/4W 1/4W 1/4W
	Q102 Q500 Q501	8-729-119-78	TRANSISTOR 2SC3 TRANSISTOR 2SC2	622A-LK 785-HFE	SETA EENA PENA	R209 R211 R212	1-249-441-11 1-249-441-11 1-249-416-11	CARBON CARBON CARBON	100K 100K 820	5% 5% 5%	1/4W 1/4W 1/4W
		8-729-321-99 8-729-322-08	(F311R)TRAN	SISTOR 2SC3853	LF-0Y	R213 R214 R215	1-247-897-11 1-249-437-11 1-249-441-11	CARBON CARBON CARBON	560K 47K 100K	5% 5% 5%	1/4W 1/4W 1/4W
	Q503 Q504	8-729-322-05 8-729-322-11 8-729-140-84	TRANSISTOR 2SC1	SISTOR 2SA1489 841-PAFAEA		R216 R217 R218	1-249-409-11 1-249-405-11 1-249-405-11	CARBON CARBON CARBON	220 100 100	5% 5% 5%	1/4W 1/4W 1/4W
	Q600 Q601 Q602 Q602	8-729-141-26 8-729-119-78 8-729-321-99 8-729-322-08	TRANSISTOR 2SC3 TRANSISTOR 2SC2 (F411RA)TRAN (F311R)TRAN	785-HFE SISTOR 2SC3854	LF-OY	R301 R302 R303	1-247-903-00 1-249-421-11 1-249-426-11	CARBON CARBON CARBON	1M 2.2K 5.6K		1/4W 1/4W 1/4W
	Q603 Q603	8-729-322-05 8-729-322-11	(F411RA)TRAN	SISTOR 2SA1490	LF-0Y	R304 R305 R306	1-247-903-00 1-247-852-11 1-247-870-11	CARBON CARBON CARBON	1M 7.5K 43K	5% 5% 5%	1/4W 1/4W 1/4W
	Q604 Q700 Q701	8-729-140-84 8-729-620-05 8-729-620-05		603-EF		R307 R308 R401	1-249-436-11 1-249-437-11 1-247-903-00	CARBON CARBON	39K 47K 1M	5% 5% 5%	1/4W 1/4W 1/4W

Note: The components identified by mark \(\frac{\hat{\Lambda}}{\text{ or dotted}}\) or dotted line with mark \(\frac{\hat{\Lambda}}{\text{ or critical for safety.}}\) Replace only with part number specified.

5% 1/2W

Ref.No	. Part No.	Description		Raff, No.	Ref.No.	Part No.	Description				
R402 R403 R404	1-249-426-11 1-247-903-00	CARBON 5.6K CARBON 1M	5% 5%	1/4W 1/4W 1/4W	R614 R615 R616 R619	1-247-727-11 1-249-438-11 1-247-727-11 1.1-247-704-11	CARBON CARBON CARBON CARBON	10 56K 10 220	5% 5% 5% 5%	1/2W 1/4W 1/2W 1/4W	0754
R405 R406 R407 R408	1-247-852-11 1-247-870-11 1-249-436-11 1-249-437-11	CARBON 43K CARBON 39K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W		↑.1-247-745-11 ↑.1-215-867-00	(F311R)CA (F411RA)ME		IDE		% 1/2V % 1W
R500 R500	1-249-417-11 1-247-713-11	(F311R)CARBON	1K 1K	5% 1/4W 5% 1/4W		A.1-216-361-00 A.1-216-361-00 1-249-423-11	(F411RA)ME (F411RA)ME CARBON	TAL OX	IDE		
R501 R501	1-249-417-11 1-247-713-11	(F311R)CARBON (F411RA)CARBON	1K 1K	5% 1/4W 5% 1/4W	R700 R701	1-249-423-11 1-247-903-00	CARBON CARBON	3.3K	5%	1/4W 1/4W	logg
R502	1-249-423-11	CARBON 3.3K	5%	1/4W	R702	1-249-417-11	CARBON	1K	5%	1/4W	non
R503 R503	1-249-441-11 1-249-469-11	(F311R)CARBON (F411RA)CARBON	100K 100K		R703 R704 R705	1-249-441-11 1-249-433-11 1-249-429-11	CARBON CARBON CARBON	100K 22K 10K	5% 5% 5%	1/4W 1/4W 1/4W	1028
R504 R504	1-249-416-11 1-247-711-11	(F311R)CARBON (F411RA)CARBON	820 680	5% 1/4W 5% 1/4W	R706 R707	1-249-441-11 1-249-433-11	CARBON CARBON	100K 22K	5% 5%	1/4W 1/4W	reo
R505 R506 R507	1-249-441-11 1-249-431-11 1-249-419-11	CARBON 100K CARBON 15K CARBON 1.5K	5% 5% 5%	1/4W 1/4W 1/4W	R708 R709 R710	1-249-417-11 1-249-393-11 1-249-429-11	CARBON CARBON CARBON	1K 10 10K	5% 5% 5%	1/4W 1/4W 1/4W	
	1-249-423-11 A.1-247-688-11 A.1-247-688-11	CARBON 3.3K CARBON 10 CARBON 10	5% 5% 5%	1/4W 1/4W F 1/4W F	R711 R712	1-249-417-11		1K 1K	5%	1/4W 1/4W	583
	<u>^</u> .1-216-361-00 <u>^</u> .1-216-361-00	METAL OXIDE 0.22 METAL OXIDE 0.22	5% 5%	2W F 2W F	R713 R714	1-249-429-11 1-249-433-11	CARBON CARBON	10K 22K	5% 5%	1/4W 1/4W	
R513 R513	1-249-428-11 1-249-434-11	(F311R)CARBON (F411RA)CARBON	8.2K 27K	5% 1/4W 5% 1/4W	R715 R716 R717	1-249-433-11 1-249-433-11 1-249-433-11	CARBON CARBON CARBON	22K 22K 22K	5% 5% 5%	1/4W 1/4W 1/4W	
R514 R515 R516 R519	1-247-727-11 1-249-437-11 1-247-727-11 1-247-704-11	CARBON 10 CARBON 47K CARBON 10 CARBON 220	5% 5% 5% 5%	1/2W 1/4W 1/2W 1/4W F	R718 R719 R720	1-249-433-11 1-249-433-11 1-249-433-11	CARBON CARBON CARBON	22K 22K 22K	5% 5% 5%	1/4W 1/4W 1/4W	
R520	<u>^</u> .1-247-745-11 <u>^</u> .1-215-867-00	(F311R)CARBON (F411RA)METAL OX	3:	30 5% 1/2W	R721 R722 R723	1-249-433-11 1-249-414-11 1-249-411-11	CARBON CARBON CARBON	22K 560 330	5% 5% 5%	1/4W 1/4W 1/4W	
	A.1-216-361-00 A.1-216-361-00 1-249-423-11	(F411RA)METAL OX (F411RA)METAL OX CARBON 3.3K	IDE O	.22 5% 2W .22 5% 2W 1/4W	R724 R725 R726	1-249-411-11 1-249-411-11 1-249-411-11	CARBON CARBON CARBON	330 330 330	5% 5% 5%	1/4W 1/4W 1/4W	
R600 R600	1-249-417-11 1-247-713-11	(F311R)CARBON (F411RA)CARBON	1K 1K	5% 1/4W 5% 1/4W	R727 R728 R729	1-249-411-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	330 10K 10K	5% 5% 5%	1/4W 1/4W 1/4W	
R601 R601	1-249-417-11 1-247-713-11	(F311R)CARBON (F411RA)CARBON	1K 1K	5% 1/4W 5% 1/4W	R731 R732	1-247-901-11	CARBON	820K 22K	5%	1/4W 1/4W	
R602 R603 R603	1-249-423-11 1-249-441-11 1-249-469-11	CARBON 3.3K (F311R)CARBON (F411RA)CARBON	5% 100K	1/4W 5% 1/4W	R733 R734 R735	1-249-433-11 1-249-441-11 1-249-410-11	CARBON CARBON	22K 100K 270	5% 5% 5%	1/4W 1/4W 1/4W	
R604 R604	1-249-416-11 1-247-711-11	(F311R)CARBON (F411RA)CARBON	100K 820 680	5% 1/4W 5% 1/4W 5% 1/4W	R736	1-249-416-11	CARBON	820 1.5K	5%	1/4W 1/4W	
R605 R606	1-249-441-11	CARBON 100K CARBON 15K	5% 5%	1/4W 1/4W	R739 R740	1-249-423-11 1-249-441-11	CARBON CARBON	3.3K	5% 5%	1/4W 1/4W	
R607	1-249-419-11	CARBON 1.5K CARBON 3.3K	5% 5%	1/4W 1/4W	R742 R743 R744	1-249-423-11 1-249-409-11 1-249-412-11	CARBON CARBON CARBON	3.3K 220 390	5% 5% 5%	1/4W 1/4W 1/4W	
R610 A	A.1-247-688-11 A.1-247-688-11	CARBON 10 CARBON 10	5% 5%	1/4W F 1/4W F		1-249-393-11 1-249-393-11 1-249-433-11	CARBON CARBON (F411RA)CAF	10 10	5% 5%	1/4W 1/4W	F
	A.1-216-361-00 A.1-216-361-00 1-249-428-11	METAL OXIDE 0.22 METAL OXIDE 0.22 (F311R)CARBON	5% 5% 8.2K	2W F 2W F 5% 1/4W	R750 R761	1-249-433-11 1-249-433-11 1-249-425-11	CARBON CARBON	22K 4.7K	22K 5% 5%	5% 1 1/4W 1/4W	
R613	1-249-434-11	(F411RA)CARBON	27K	5% 1/4W	R800		ČARBON	68K	5%	1/4W	

ON 10 5% 1/4W F 1RA)...CARBON 22K 5% 1/4W ON 1/4W 22K 5% ON 4.7K 1/4W 1/4W 5% ON 68K 5% Note: The components identified by mark \(\frac{\Lambda}{\Lambda} \) or dotted line with mark \(\frac{\Lambda}{\Lambda} \) are critical for safety. Replace only with part number specified.

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120	Ref.No. Part No.	Description
d by	R801 1-249-429- R801 1-249-430-	
MMM	R802 1-249-441- R803 1-249-440-	
WWW. FRE	R805 A.1-215-865- R805 A.1-216-454-	
S S	R806 1-249-427- R806 1-249-429-	
VICE	R900 A.1-249-455- R901 A.1-249-455-	
MANI	R902 A.1-249-451- R902 A.1-217-473-	11 (F311R)CARBON 2.2 5% 1/4W F 00 (F411RA)FUSIBLE 2.2 5% 1W
JALS	R903 A.1-249-451- R903 A.1-217-473-	11 (F311R)CARBON 2.2 5% 1/4W F 00 (F411RA)FUSIBLE 2.2 5% 1W
ERVICEMANUALS.INFO	R904 1-249-417- R905 1-249-417- R906 1-247-698-	11 CARBON 1K 5% 1/4W
	R907 1-247-713-1 R908 1-249-451-1 R909 1-249-451-1	11 CARBON 2.2 5% 1/4W
	RV300 1-238-638-1 RV301 1-238-639-1 RV302 1-238-640-1	RES, VAR 250K/250K (TREBLE)
	RV303 1-238-628-2 RV500 1-237-455-1 RV600 1-237-455-1	1 RES, ADJ, CARBON 500
	RY1 1-515-516-0	O RELAY
	RY800 1-515-533-1 RY800 1-515-501-1	
	S821 1-571-309-31	(F411RA)SWITCH (SPEAKER IMPEDANCE SELECTOR)
	SW100 1-571-115-1	1 (F411RA)SWITCH, SLIDE
	SW301 1-571-828-1	(REC OUT SELECTOR) SWITCH, PUSH (1 KEY)(SOURCE DIRECT)
	SW700 1-554-303-2 SW701 1-554-303-2 SW702 1-554-303-2	1 SWITCH, KEY BOARD (TUNER)
	SW703 1-554-303-2: SW704 1-554-303-2: SW705 1-554-303-2: SW706 1-554-303-2:	1 SWITCH, KEY BOARD (TAPE 1) 1 SWITCH, KEY BOARD (TAPE 2/DAT)

Ref.No. P	art No.	Description
SW900 1	-571-971-	The state of the s
SW900 1	-571-973-	(SPEAKER A/B) (SPEAKER A/B) (SPEAKER A/B)
	-450-059- -450-062-	
T2 A.1	-449-297-	11 TRANSFORMER, POWER
	-537-227- -537-228-	
TP500 *1 TP600 *1	-535-115- -535-115-	00 TERMINAL 00 TERMINAL
	-577-077-	11 OSCILLATOR, CERAMIC 400K
ACCES	SSORY & P# 5-199-11	ACKING MATERIAL REMOTE COMMANDER (RM-S310)
ACCES 1-465 2-128	SSORY & PA 5-199-11 3-529-01	ACKING MATERIAL REMOTE COMMANDER (RM-S310) COVER, BATTERY
1-465 2-128 3-751	SSORY & PA 5-199-11 5-529-01 -337-11	ACKING MATERIAL REMOTE COMMANDER (RM-S310) COVER, BATTERY MANUAL, INSTRUCTION
1-465 2-128 3-751	SSORY & PA 5-199-11 8-529-01	ACKING MATERIAL REMOTE COMMANDER (RM-S310) COVER, BATTERY
ACCES 1-465 2-128 3-751	SSORY & PA 5-199-11 3-529-01 -337-11 -337-41	ACKING MATERIAL REMOTE COMMANDER (RM-S310) COVER, BATTERY MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) MANUAL, INSTRUCTION
1-465 2-128 3-751 3-751 *4-929	SSORY & PA 5-199-11 3-529-01 -337-11 -337-41 -260-01 -991-01	ACKING MATERIAL REMOTE COMMANDER (RM-S310) COVER, BATTERY MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) CUSHION (F311R)INDIVIDUAL CARTON
1-465 2-128 3-751 3-751 *4-929	55SORY & PA 5-199-11 3-529-01 -337-11 -337-41 -260-01	REMOTE COMMANDER (RM-S310) COVER, BATTERY MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN)
1-465 2-128 3-751 3-751 *4-929	SSORY & PA 5-199-11 3-529-01 -337-11 -337-41 -260-01 -991-01	ACKING MATERIAL REMOTE COMMANDER (RM-S310) COVER, BATTERY MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) CUSHION (F311R)INDIVIDUAL CARTON

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

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SONY. SERVICE MANUAL

Model AEP **TA-F311R** AEP Model

UK Model TA-F411RA

CORRECTION-1

Correct your service manual as shown below.

As bias current adjustment method in the service manual on page 5 is incorrect, please perform it according to the following procedures.

Bias Current Adjustment

Note: This adjustment should be performed under thermal stable condition. Before starting the adjustment, wait for more than an hour after switch off for cooling, and perform the adjustment within one minute after switching on.



Free service manuals Gratis schema's

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Procedure:

- 1. Set main volume to minimum position.
- 2. Switch on the set.
- 3. Adjust RV500 (RV600 for right channel) so that the voltage across TP500 and TP600 becomes the value indicated below.

Adjustment values:

9-955-693-91

TA-F311R $4mV \pm 0.3mV$ TA-F411RA $2mV \pm 0.3mV$