SERVICE MANUAL

AEP Model E Model





Free service manuals Gratis schema's

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SPECIFICATIONS

Amplifier

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Power output (both channels driven simultaneously)

DIN 111	4 ohms	65 W + 65 W	
DIN, 1 kHz	8 ohms	55 W + 55 W	
20 Hz – 20 kHz	8 ohms	40 W + 40 W	

Input

Input jack	Jack type	Sensitivity	Impedance 50 kilohms	
PHONO	Phono	2.5 mV		
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD	Phono	150 mV	20 kilohms	

S/N

PHONO A, 5 mV	80 dB	
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD	105 dB	

utput		
Output jack	Jack type	Voltage/impedance
REC OUT	Phono jack	Voltage 150 mV Impedance 1 kilohm
SPEAKERS	-	4-16 ohms SPEAKERS A+B: 8-16 ohms
PHONES	Stereo phone jack	10 mW (at 8 ohms) Accepts low and high impedance headphones

Tone controls

	Response	Turnover frequency
BASS	± 7 dB (100 Hz)	300 Hz
TREBLE	± 7 dB (10 kHz)	3 kHz

Harmonic distortion

Frequency response

Residual noise

Damping factor

Less than 0.025% at 10 W output Intermodulation (IM) distortion (60 Hz:7 kHz = 4:1) Less than 0.025% at 10 W output PHONO: RIAA equalization curve $\pm 0.5 \text{ dB}$ TUNER, CD, AUX, TAPE I/DAT, TAPE 2/MD: 7 Hz - 100 kHz⁺₃ dB Less than 170 μ V (network A) 50 (8 ohms, 1 kHz)

- Continued on next page -

INTEGRATED STEREO AMPLIFIER SONY



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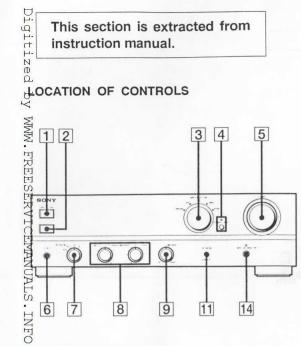
yq

WWW.FREESERVICEMANUALS.INFO

General			TA	ABLE OF CONTENTS	
System	Preamplifier: Low-noise, equalizer amplifier Power amplifier: Pure-complementary	Sect	ion	<u>Title</u>	Page
Power requirements	SEPP OCL power amplifier with all stages directly coupled AEP, German model:	Spec	ifications ••	•••••	1
r o nor requirements	220 – 230 V AC, 50/60 Hz E model: 120 V, 220 V or 240 V AC adjustable,	1.	GENERAI	Controls	
Power consumption Dimensions Mass	50/60 Hz 160 W Approx. 430 × 135 × 315 mm (w/h/d) ($17 \times 5^{3}/_{8} \times 12^{1}/_{2}$ inches) Approx. 5.6 kg (12 lb 6 oz)	2. 3.	ELECTRIC	CAL ADJUSTMENT ·	•••••• 4
Supplied accessories	Remote commander RM-S311 (1) Sony SUM-3 (NS) batteries (2)	3-1. 3-2.		ction Description ing Boards – Panel Secti	
The above values are me	asured at 230 V AC.	3-3. 3-4.	Schematic	ing Boards — Main Sectio	
Design and specifications	s are subject to change without notice.	4.	Gratis senem	D VIEWS	
		∂ 15 11.8	ELECTRIC	AL PARTS LIST	19

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A 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 PUB-LISHED BY SONY.



SECTION 1 GENERAL

Front Panel 1 SYSTEM POWER switch and STANDBY indicator Immediately after turning on the SYSTEM POWER switch, the STANDBY indicator flashes, then goes 9 BALANCE control off. If the STANDBY indicator is lit, press the POWER switch on the remote. [1] LOUDNESS button 2 Remote control sensor

3 INPUT SELECTOR and indicators

4 SOURCE DIRECT button and indicator

- 5 VOLUME control
- 6 PHONES jack

7 SPEAKERS selector

- 8 TONE (BASS/TREBLE) controls

- 14 TAPE 1/DAT MONITOR button and indicator

L-CH

R-CH

Note:

SECTION 2

- 1. DC BIAS adjustments should be made within 2 to 3 minutes after the POWER switch is turned on (POWER ON).
- 2. After replacing the power transistors, DC BIAS adjustments should be made.

DC Bias Adjustment (with no signal input) Procedure:

RV301

RV351

TP301 -	- 00
RV301	

SECTION 3 DIAGRAMS

--

1 POWER switch

Remote Commander

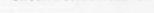
- If the STANDBY indicator on the TA-F361R is lit, press this switch.
- 2 TUNER operation buttons TUNER: Select the TUNER mode. PRESET +/- buttons: Select the preset station.
- 3 CD operation buttons I←◀ / ▶►I: Automatic music sensor. D. (Disc) SKIP: Disc skip (for CD player equipped with a multi-disc changer)
- ►: The amplifier enters the CD mode and the CD player starts playback automatically.
- Stop.
- II: Pause.
- 4 TAPE 2 DECK A/DECK B operation
- buttons ◄◄/►►: Fast winding.
- Stop. The amplifier enters the TAPE 2
- The amplifier enters the TAPE 2 mode and the tape deck starts reverse playback automatically.
 The amplifier enters the TAPE 2
- mode and the tape deck starts forward playback automatically.
- + >: Start recording
- direction
- I: Pause. (Only for DECK B)

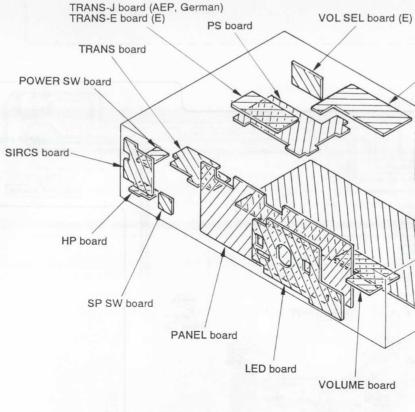
Circuit Boards Location

- 6 PHONO operation buttons START: Pressing START automatically selects the PHONO mode on the amplifier and starts playback of the turntable system. STOP: Stops playback of the turntable system.
- 7 DAT/TAPE 1 button Selects the DAT or TAPE 1 mode.

5 VOL (Volume) +/- buttons

8 AUX button Selects the AUX mode.





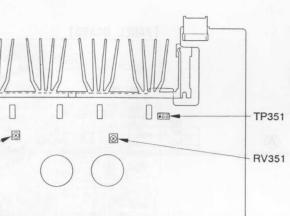
Reading on VTVM

20 mV

20 mV

211

[ADJUSTMENT LOCATIONS]



SP board

INPUT board

MAIN board

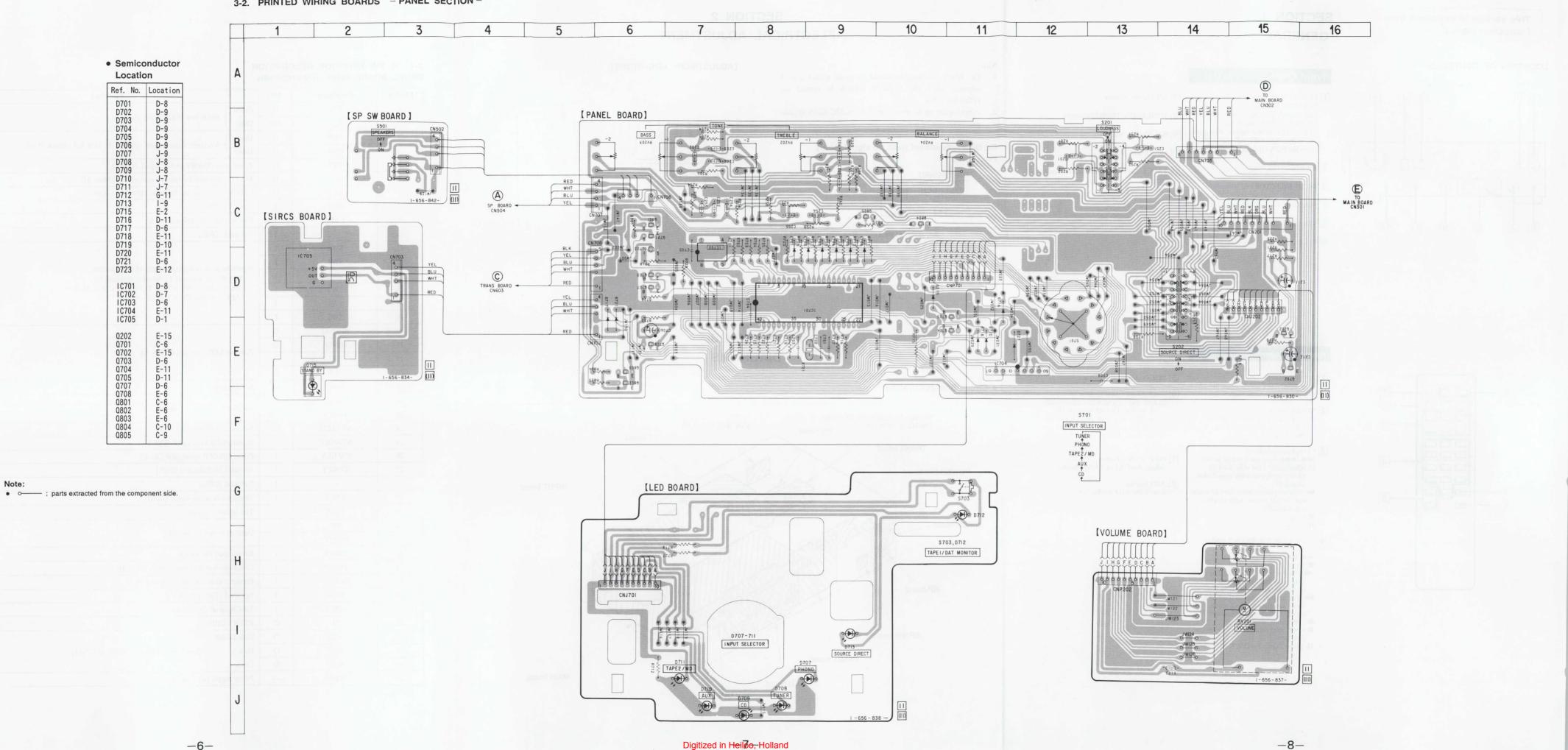
3-1. IC PIN FUNCTION DESCRIPTION PANEL BOARD IC701 TMP47C200BN

Pin No.	Pin Name	I/O	Function					
1	RCL	0	Clock Serial data of EEPROM. (X24C01)					
2	RDT	I/O	Data Serial data of EEPROM. (X24C01)					
3	VUP	0	Up VR motor control signal. (Active: H, Stop: L-L, Brake: H-H)					
4	VDW	0	Down J					
5	PRY	0	Power relay ON/OFF control signal. (ON: L)					
6	MUT	0	Mute Control signal output when switching. (Mute: H)					
7	LED	0	LED display signal. (L: Function LED is turned on.)					
8	94/95	I	Not used. (GND)					
9	F3/F4	I	Model mode switch signal. (+5 V)					
10	-	I	Not used. (GND)					
11	SW0	I						
12	SW1	I	Polativity position detection sized of actors with t					
13	SW2	I	 Relativity position detection signal of rotary switch. (One of them terminal: L, the other terminal: H) 					
14	SW3	I	Direction from SW5 to SW0, TUNER \rightarrow CD \rightarrow AUX \rightarrow					
15	SW4	I	$\neg TAPE2 \rightarrow PHONO \rightarrow TUNER \rightarrow \cdots \cdots$					
16	SW5	I	0 2010					
17	PHONO	0	31-31 S010					
18	TUNER	0						
19	CD	0	Function LED drive signal. (ON: L)					
20	AUX	0						
21	GND	_	GND terminal.					
22	TAPE2	0						
23	TAPE1	0	- Function LED drive signal. (ON: L)					
24	VOLLED	0	Not used. (Pull down to GND.)					
25	STANBY	0	Standby LED drive signal. (ON: L)					
26	PW KEY	I	Power ON/OFF signal. (SW ON: L)					
27	T1 KEY	I	Not used. (Pull down to GND.)					
28	-	I	Not used. (GND)					
29	F3/F5	I	Model mode switch signal. (GND)					
30	TEST		Test terminal. (Open)					
31	XIN	_						
32	XOUT	-	Oscillation signal 8.19 MHz.					
33	RESET	I	Reset signal. (Reset: L)					
34	HOLD	I	Cancellation of hold mode signal. (Start: H)					
35	PROTEC	Ι.	Protector detection signal. (Active: H)					
36	EON	I	Not used. (Pull up to +5 V.)					
37	SIRCS	I	SIRCS signal. (Active: L)					
38	T1	0	RELAY DRIVE					
39	SCE	0	Chip Enable					
40	SDT	0	Data > Serial control signal to IC101. (LC7821)					
41	SCK	0	Clock					
42	VDD		Power supply (+5 V) terminal.					

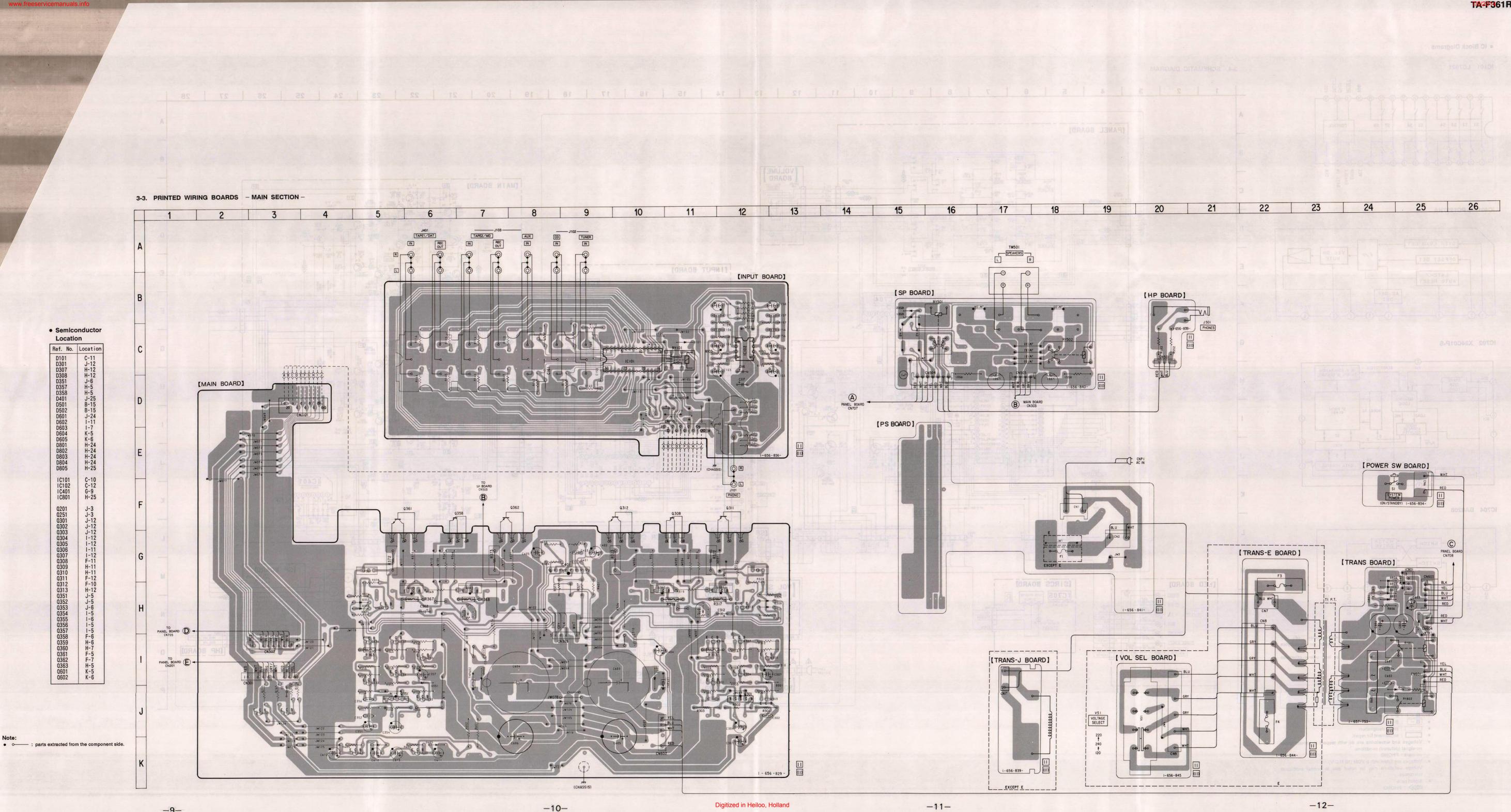
Note:

FO

3-2. PRINTED WIRING BOARDS - PANEL SECTION -



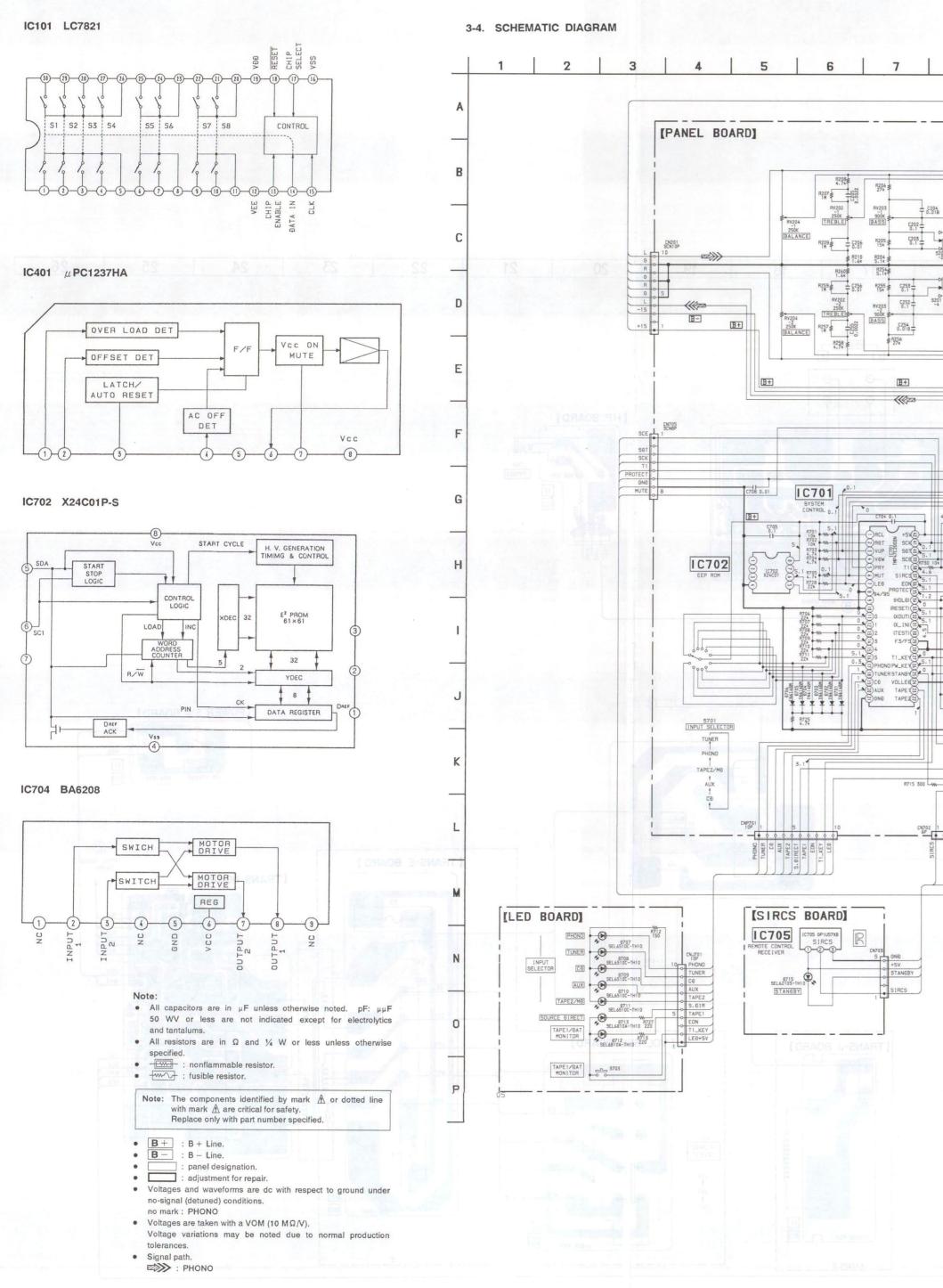
-6-



-10-

Note:

IC Block Diagrams



R253≩

4

\$202-4

S202 SOURCE DIRECT

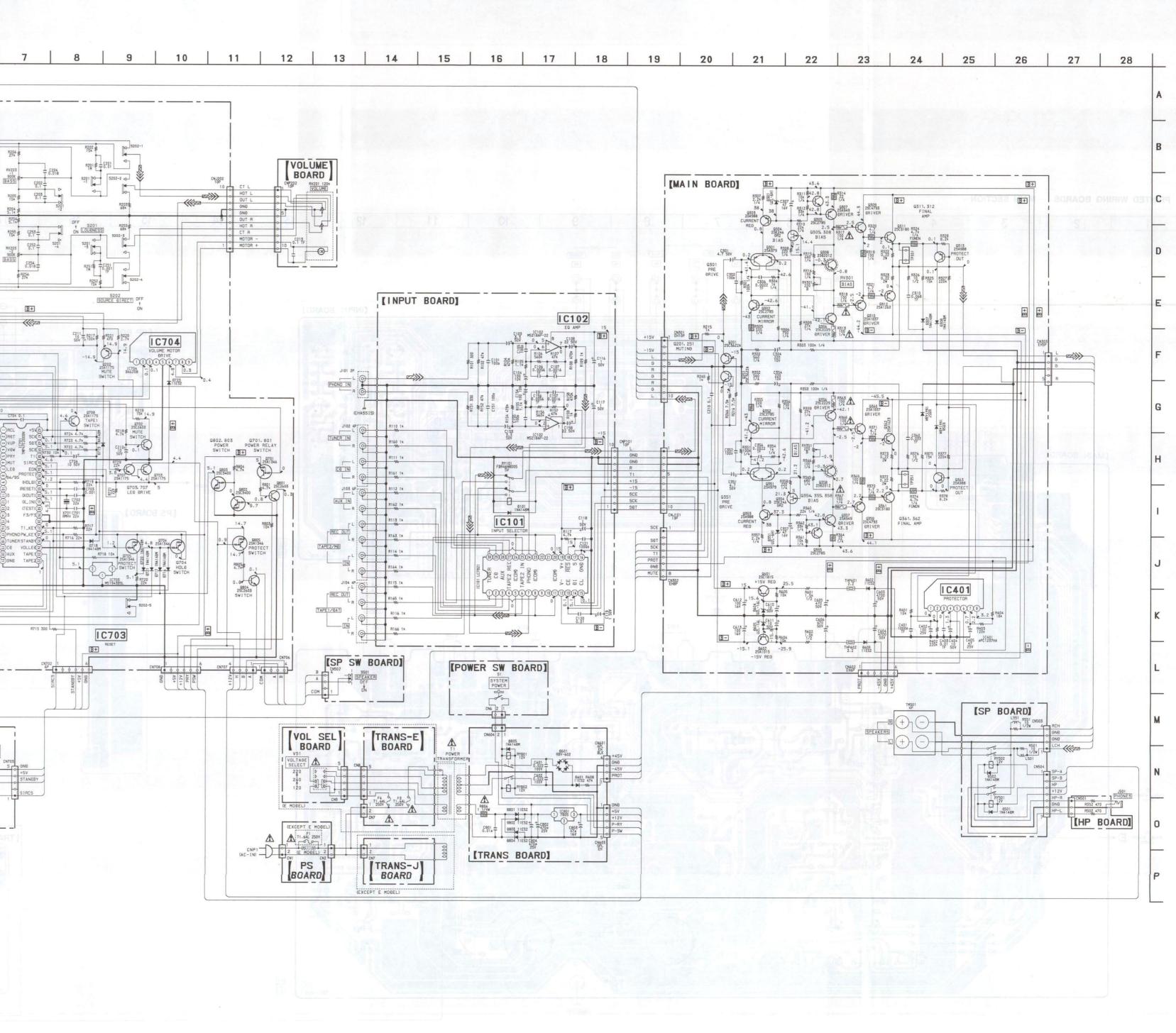
5201 -3

R252 15k ₹

C211 10 50V T+100K≸ ≸R221 ≸R220 50V T+100K≸ ≸470 ≸2.7K

RESET

R251≹ _C251 1M __0.001 ____



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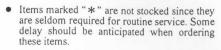
SECTION 4 EXPLODED VIEWS

o^{NOTE:} ∀● -XX -XX and -X mean standardized parts, so they may have some difference from the original one. Color Indication of Appearance Parts

Example: KNOB, BALANCE (WHITE) ... (RED) 1 1

> Cabinet's Color Parts Color

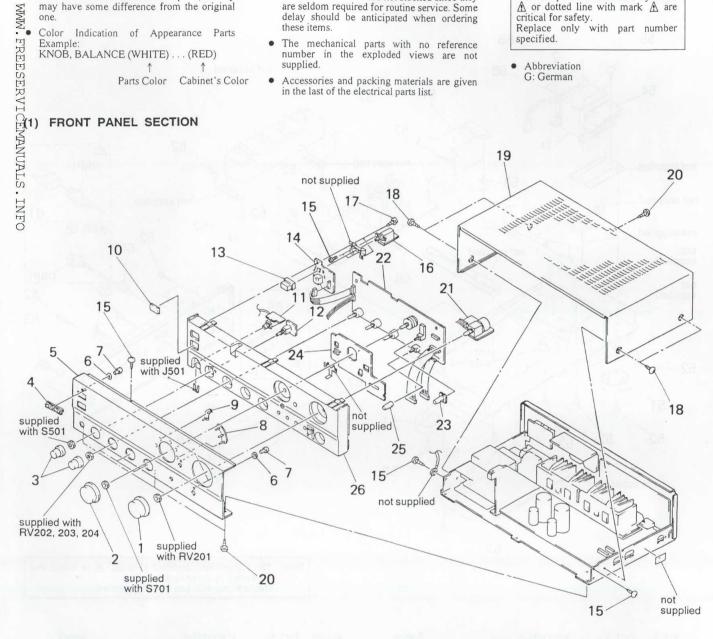
FRONT PANEL SECTION



- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark $\underline{\mathbb{A}}$ or dotted line with mark $\underline{\mathbb{A}}$ are Replace only with part number specified.

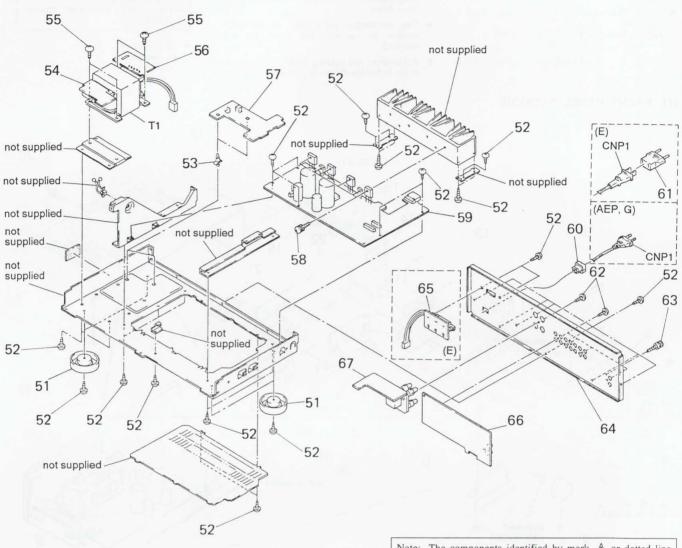
Abbreviation G: German



Ref.No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4944-844-1	KNOB (VOL) ASSY	anter seller	* 14	1-656-831-11	SIRCS BOARD	m >
2	4-966-003-01	KNOB (SEL)		15	4-967-961-01	SCREW (3X8) (SPECIAL)	
3	4-965-996-01	KNOB (TONE)		* 16	1-656-834-11	POWER SW BOARD	
4	4-942-568-01	EMBLEM (NO. 5), SONY		17	4-969-221-01	SCREW (3X12)	
5	4-965-991-51	PANEL, FRONT		18	3-704-366-01	SCREW (CASE) (M3X8)	
* 6	4-927-881-01	SHEET, ADHESIVE					
				19	4-976-672-11	CASE	
7	4-938-518-01	INDICATOR (C)		20	7-682-548-09	SCREW +BVTT 3X8 (S)	
8	4-965-999-01	INDICATOR (3)		* 21	1-656-837-11	VOLUME BOARD	
9	4-965-999-11	INDUCATOR		* 22	A-4378-189-A	PANEL BOARD, COMPLETE	
10	4-931-911-01	FILTER		23	4-966-000-01	BUTTON (L)	
* 11	1-656-839-11	HP BOARD					
				* 24	1-656-838-11	LED BOARD	
* 12	1-656-842-11	SP SW BOARD		25	4-965-997-01	BUTTON (S)	
13	4-917-460-81	KNOB, POWER		26	4-974-890-01	BASE, PANEL	

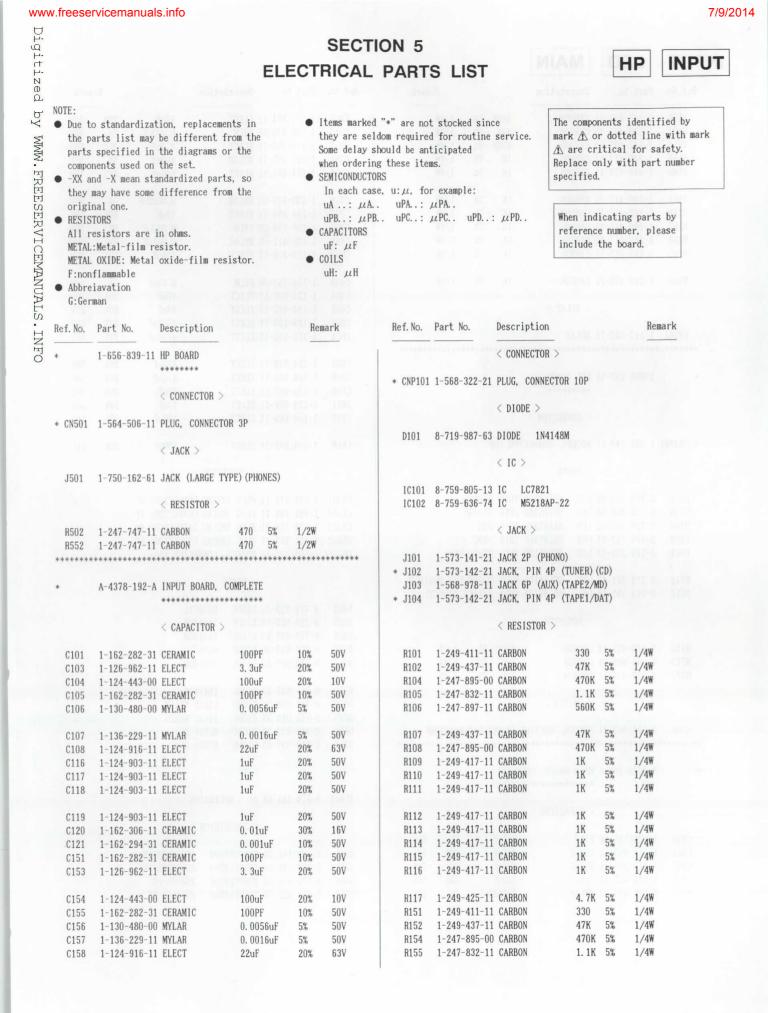
EXPLODED VIEWS

(2) CHASSIS SECTION



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

Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
4-956-885-11	FOOT (F58175S2W)		<u>1</u> 61	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
4-967-961-01	SCREW (3X8) (SPECIAL)		62	3-704-515-41	SCREW (BV/RING)	
3-346-265-11	HOLDER, PC BOARD		63	4-947-010-01	SCREW, FEEDER FIXED	
1-657-753-11	TRANS BOARD		* 64	4-966-005-51	PANEL, BACK (AEP, G)	
4-967-960-01	SCREW (4X8)		* 64	4-966-005-61	PANEL, BACK (E)	
1-656-844-11	TRANS-E BOARD (E)		* 65	1-656-845-11	VOL SEL BOARD (E)	
1-656-835-11	TRANS-J BOARD (AEP, G)		* 66	A-4378-192-A	INPUT BOARD, COMPLETE	
1-656-841-11	PS BOARD		* 67	1-656-840-11	SP BOARD	
3-905-609-11	SCREW (TRANSISTOR)		ACNP1	1-558-943-41	CORD, POWER (E)	
A-4378-188-A	MAIN BOARD, COMPLETE	in the second second	ACNP1	1-575-651-21	CORD, POWER (AEP, G)	
3-703-244-00	BUSHING (2104), CORD (AEP, G)					
			<u>∧</u> T1	1-429-080-11	TRANSFORMER, POWER (AEP, G)	
3-703-571-11	BUSHING (S) (4516), CORD (E)	10.00	<u>∧</u> T1			
	$\begin{array}{c} \hline \\ 4-956-885-11\\ 4-967-961-01\\ 3-346-265-11\\ 1-657-753-11\\ 4-967-960-01\\ 1-656-844-11\\ 1-656-844-11\\ 1-656-841-11\\ 3-905-609-11\\ A-4378-188-A\\ 3-703-244-00\\ \end{array}$	Part No. Description 4-956-885-11 FOOT (F58175S2W) 4-967-961-01 SCREW (3X8) (SPECIAL) 3-346-265-11 HOLDER, PC BOARD 1-657-753-11 TRANS BOARD 4-967-960-01 SCREW (4X8) 1-656-844-11 TRANS-E BOARD (E) 1-656-835-11 TRANS-J BOARD (AEP, G) 1-656-841-11 PS BOARD 3-905-609-11 SCREW (TRANSISTOR) A-4378-188-A MAIN BOARD, COMPLETE 3-703-244-00 BUSHING (2104), CORD (AEP, G) 3-703-571-11 BUSHING (S) (4516), CORD (E)	4-956-885-11 FOOT (F58175S2W) 4-967-961-01 SCREW (3X8) (SPECIAL) 3-346-265-11 HOLDER, PC BOARD 1-657-753-11 TRANS BOARD 4-967-960-01 SCREW (4X8) 1-656-844-11 TRANS-E BOARD (E) 1-656-835-11 TRANS-J BOARD (AEP, G) 1-656-841-11 PS BOARD 3-905-609-11 SCREW (TRANSISTOR) A-4378-188-A MAIN BOARD, COMPLETE 3-703-244-00 BUSHING (2104), CORD (AEP, G)	4-956-885-11 FOOT (F58175S2W)	4-956-885-11 FOOT (F58175S2W)	4-956-885-11 FOOT (F58175S2W)



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Remark

16V

50V

50V

50V

10V

50V

16V

50V

50V

25V

50V

50V

25V

50V

50V

50V

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16V

16V

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20%

IPUT	LED	MAIN								
Ref.No.	Part No.	Description			R	lemark	Ref. No.	Part No.	Descriptio	n
R156	1-247-897-11	CARBON	560K	5%	1/4₩	1	C307	1-104-664-11	ELECT	
R157	1-249-437-11	CARBON	47K	5%	1/4₩		C310	1-136-159-00		0. 033u
R158	1-247-895-00		470K	5%	1/4₩		C351	1-126-963-11		4. 7uF
R159	1-249-417-11		1K	5%	1/4W		C352	1-110-335-11		100PF
R160	1-249-417-11		1K 1K	5%	1/4w		C352	1-110-335-11		220uF
DICI	1 040 417 44	CADDON		-						
R161	1-249-417-11		1K	5%	1/4W		C356	1-130-475-00		0.0022
R162	1-249-417-11		1K	5%	1/4W		C357	1-104-664-11		47uF
R163	1-249-417-11		1K	5%	1/4W		C360	1-136-159-00		0. 033u
R164	1-249-417-11		1K	5%	1/4W		C401	1-130-471-00		0. 001u
R165	1-249-417-11	CARBON	1K	5%	1/4W		C402	1-124-478-11	ELECT	100uF
R166	1-249-417-11	CARBON	1K	5%	1/4W		C403	1-136-153-00	FILM	0. 01uF
							C404	1-124-907-11	ELECT	10uF
		< RELAY >					C405	1-124-477-11	ELECT	47uF
							C603	1-126-138-11	ELECT	4700uF
	1-515-622-11						C604	1-126-138-11	ELECT	4700uF
******	*****	*****	******	*****	*****	*****	C605	1-124-913-11	FLECT	470uF
*	1-656-838-11	LED BOARD					C606	1-124-913-11		470ur 470uF
	1 000 000 11	*****					C610	1-124-907-11		470ur 10uF
							C611	1-124-907-11		10ur 10uF
		< CONNECTOR >					C612	1-124-907-11		100r 100uF
		COUNCOIDE >					0012	1-104-005-11	LLEUI	10001
* CNJ701	1-691-244-11	SOCKET, CONNEC	TOR 10P				C613	1-104-665-11	ELECT	100uF
		< DIODE >							< CONNECTOR	1 >
D707	8-719-303-02	LED SEL6510C	-TH10 (F	PHONO))		CN301	1-691-771-11	PLUG (MICRO	CONNECTOR)
D708	8-719-303-02	LED SEL6510C	-TH10 (7	TUNER))		CN302	1-691-769-11	PLUG (MICRO	CONNECTOR)
D709	8-719-303-02	LED SEL6510C	-TH10 (C	CD)			CN303	1-691-766-21	PLUG (MICRO	CONNECTOR)
D710	8-719-303-02	LED SEL6510C-	-TH10 (A	AUX)			CN602	1-691-767-11	PLUG (MICRO	CONNECTOR)
D711	8-719-303-02	LED SEL6510C	-TH10 (1	TAPE2/	/MD)		CNJ101	1-568-321-11	SOCKET, CON	NECTOR 10P
D712	8-719-301-49	LED SEL6810A-	-TH10 (T	TAPE1/	DAT MC	ONITOR)			< DIODE >	
D713	8-719-301-49	LED SEL6810A-	TH10 (S	SOURCE	E DIREC	CT)	D201	0 710 000 00	NAME USA	0.041
		< RESISTOR >					D301	8-719-933-39		6C1L
		KESISIUR /					D307	8-719-987-63		148M
D710	1 940 407 11	CADDON	150	E.W.	4 / 450		D308	8-719-987-63		148M
R712	1-249-407-11			5%	1/4W		D351	8-719-933-39		6C1L
R713 R727	1-249-409-11 1-249-409-11			5% 5%	1/4W 1/4W		D357	8-719-987-63	DIODE 1N4	148M
							D358	8-719-987-63	DIODE 1N4	148M
		< SWITCH >					D602	8-719-024-99	DIODE 11E	S2-NTA2B
							D603	8-719-024-99		S2-NTA2B
S703	1-554-303-21	SWITCH, TACTILE	(TAPE1	/DAT	MONITO	R)	D604	8-719-933-88		16-2L
******	*****	*****	******	****	*****	******	D605	8-719-933-88		16-2L
*	A-4378-188-A	MAIN BOARD, COM	PLETE						< IC >	

		< CAPACITOR >					IC401	8-759-111-68	IC uPC123	7HA
0010	1 190 105 00	EIIM	0 1 5		50	5011		20 00	< TRANSISTO	8 >
	1-136-165-00		0. 1uF		5%	50V	0004	0 700 111 11	TDANGTON	
	1-126-963-11		4. 7uF		20%	50V		8-729-141-26		2SC3622A-L
	1-110-335-11		100PF		5%	50V	and the second sec	8-729-141-26		2SC3622A-L
	1-104-666-11 1-130-475-00		220uF 0. 0022	uF	20% 5%	10V 50V		8-729-620-18 8-729-620-05		2SA979-FG 2SC2603-EF
							002			2002000-61

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8-729-620-05 TRANSISTOR

8-729-021-73 TRANSISTOR

8-729-021-74 TRANSISTOR

8-729-209-15 TRANSISTOR

8-729-017-06 TRANSISTOR

8-729-017-05 TRANSISTOR

8-729-020-84 TRANSISTOR

8-729-020-85 TRANSISTOR

8-729-140-82 TRANSISTOR

8-729-119-78 TRANSISTOR

8-729-201-53 TRANSISTOR

2SA988-PAFAEA

2SC2229-0Y-TPE6

2SA949-0Y-TPE6

2SK246-GR2

2SC2603-EF

2SD2012

2SC4793

2SA1837

2SC3180N-R0

2SA1263N-R0

2SA979-FG

2SC2603-EF

2SK246-GR2

2SC2603-EF

2SD2012

2SC4793

2SA1837

2SC3180N-R0

2SA1263N-R0

2SC2785-HFE

2SA1015-GR

2SA988-PAFAEA

2SA988-PAFAEA

2SC2229-0Y-TPE6

2SA949-0Y-TPE6

2SA988-PAFAEA

Remark

R373

R374

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R403

R404

R601

R602

R605

R606

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IN

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Digitized	Ref. No.	Part No.	Description
Yq	Q303	8-729-140-82	TRANSISTOR
WWW.FREESERVICEMANUALS.INFO	Q304	8-729-201-56	TRANSISTOR
•	Q305	8-729-620-05	TRANSISTOR
R	Q306	8-729-021-73	TRANSISTOR
E	Q307	8-729-021-74	TRANSISTOR
SEI	Q308	8-729-209-15	TRANSISTOR
V	Q309	8-729-017-06	TRANSISTOR
Н	Q310	8-729-017-05	TRANSISTOR
E	Q311	8-729-020-84	TRANSISTOR
A	Q312	8-729-020-85	TRANSISTOR
NUA	Q313	8-729-140-82	TRANSISTOR
H	0351	8-729-620-18	TRANSISTOR
•	0352	8-729-620-05	TRANSISTOR
H	Q353	8-729-140-82	TRANSISTOR
F	0354	8-729-201-56	TRANSISTOR
0	0255	0 720 620 05	TDANCICTOD

Q355

Q356 Q357

Q358

Q359

Q360

Q361

0362

Q363

0601

0602

						MA
Ref.No.	Part No.	Description			emark	
R316	1-247-807-31	CARBON	100	5%	1/4W	
∕î\R317	1-212-881-11		100	5%	1/4W	F
A R318	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R319	1-249-405-11	CARBON	100	5%	1/4W	F
R320	1-249-389-11	CARBON	4. 7	5%	1/4W	F
R321	1-249-389-11	CARBON	4.7	5%	1/4W	F
R322	1-217-151-00	METAL PLATE	0.22		2W	
R323	1-217-151-00	METAL PLATE	0.22		2W	
R324	1-249-425-81	CARBON	4.7K	5%	1/4W	F
R325	1-249-431-11	CARBON	15K	5%	1/4W	
R326	1-247-727-11	CARBON	10	5%	1/2W	
R327	1-247-887-00	CARBON	220K	5%	1/4W	
R328	1-249-428-11	CARBON	8. 2K	5%	1/4W	
R351	1-249-441-11	CARBON	100K	5%	1/4W	
R352	1-249-414-11	CARBON	560	5%	1/4W	
R353	1-249-441-11	CARBON	100K	5%	1/4W	
R354	1-249-417-11	CARBON	1K	5%	1/4W	
R355	1-249-409-11	CARBON	220	5%	1/4W	F
R356	1-247-828-11	CARBON	750	5%	1/4W	
R357	1-249-421-11	CARBON	2.2K	5%	1/4W	
R358	1-249-409-11	CARBON	220	5%	1/4W	
R359	1-249-434-11	CARBON	27K	5%	1/4W	
R360	1-249-433-11	CARBON	22K	5%	1/4W	
R361	1-249-429-11	CARBON	10K	5%	1/4W	
R362	1-249-435-11	CARBON	33K	5%	1/4W	
<u>A</u> R363	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R364	1-249-397-11	CARBON	22	5%	1/4W	F
R365	1-249-415-11	CARBON	680	5%	1/4W	
R366	1-247-807-31	CARBON	100	5%	1/4W	
<u>∧</u> R367	1-212-881-11	FUSIBLE	100	5%	1/4W	F
<u>A</u> R368	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R369	1-249-405-11	CARBON	100	5%	1/4W	F
R370	1-249-389-11	CARBON	4.7	5%	1/4W	F
R371	1-249-389-11	CARBON	4.7	5%	1/4W	F
R372	1-217-151-00	METAL PLATE	0.22		2W	

			< RESISTOR	>					
	R215	1-249-417-11			1K	5%	1/4W		
	R216	1-247-852-11	CARBON		7.5K	5%	1/4W		
	R219	1-249-431-11			15K	5%	1/4W		
	R265	1-249-417-11	CARBON		1K	5%	1/4W		
	R266	1-247-852-11	CARBON		7.5K	5%	1/4W		
	R301	1-249-441-11	CARBON		100K	5%	1/4W		
	R302	1-249-414-11	CARBON		560	5%	1/4W		
	R303	1-249-441-11	CARBON		100K	5%	1/4W		
	R304	1-249-417-11	CARBON		1K	5%	1/4W		
	R305	1-249-409-11	CARBON		220	5%	1/4W	F	
	R306	1-247-828-11	CARBON		750	5%	1/4W		
	R307	1-249-421-11	CARBON		2. 2K	5%	1/4W		
	R308	1-249-409-11	CARBON		220	5%	1/4W		
	R309	1-249-434-11	CARBON		27K	5%	1/4W		
	R310	1-249-433-11	CARBON		22K	5%	1/4W		
	R311	1-249-429-11	CARBON		10K	5%	1/4W		
	R312	1-249-435-11	CARBON		33K	5%	1/4W		
A	R313	1-212-881-11	FUSIBLE		100	5%	1/4W	F	
	R314	1-249-397-11	CARBON		22	5%	1/4W	F	
	R315	1-249-415-11	CARBON		680	5%	1/4W		

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

1-217-151-00 METAL PLATE

1-249-425-81 CARBON

1-249-431-11 CARBON

1-247-727-11 CARBON

1-247-887-00 CARBON

1-249-428-11 CARBON

1-249-429-11 CARBON

1-247-887-00 CARBON

1-247-881-00 CARBON

1-249-432-11 CARBON

1-247-754-11 CARBON

1-247-754-11 CARBON

1-249-429-11 CARBON

1-249-429-11 CARBON

0.22

4.7K 5%

15K 5%

220K 5%

8.2K 5%

220K 5%

120K 5%

1.5K 5%

1.5K 5%

10K 5%

10K

5%

5%

10K 5%

18K

5%

10

2W

1/4W F

1/4W

1/2W

1/4W

1/4W

1/4W

1/4W

1/4W

1/4W

1/2W

1/2W

1/4W

1/4W

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Remark

Ref.No.	Part No.	Description		R	lemark	Ref. No.	Part No.	Description	n		
		< VARIABLE RESI	STOR >			D704	8-719-987-63	DIODE 1N	4148M		
						D705	8-719-987-63		4148M		
		RES, ADJ, CARBO									
KV351	1-241-759-21	RES, ADJ, CARBO	IN 220			D706	8-719-987-63		4148M		
		< THERMISTOR (PO	SITIVE) >			D716 D717	8-719-987-63 8-719-987-63		4148M 4148M		
			STITL) /			D717	8-719-987-63		1140M		
THP601	1-806-882-11	THERMISTOR, POS	ITIVE 2.2			D719	8-719-987-63		1148M		
THP602	1-806-882-11	THERMISTOR, POS	ITIVE 2.2								
		TECT DIN S				D720	8-719-987-63		1148M		
		< TEST PIN >				D721 D723	8-719-987-63 8-719-024-99		1148M CS2-NTA2B		
* TP301	1-564-506-11	PLUG, CONNECTOR	3P			0123	0-719-024-99		.52-NIAZD		
		PLUG, CONNECTOR						< IC >			
******	*****	*****	******	*****	*****						
							8-759-343-64				
*	A-4378-189-A	PANEL BOARD, CO					8-759-188-67				
		*****	****				8-759-635-63				
		< CAPACITOR >				16704	8-759-962-08	IC BA6208			
		- 12.						< TRANSISTO	R>		
C201	1-130-471-00		0.001uF	5%	50V						
C202	1-136-165-00		0. 1uF	5%	50V	Q202	8-729-119-76		2SA1175		
C203	1-136-165-00		0. 1uF	5%	50V	Q701	8-729-900-63		DTA124E		
C204 C205	1-136-156-00 1-130-475-00		0. 018uF 0. 0022uF	5% 5%	50V 50V	Q702 Q703	8-729-620-05 8-729-119-76		2SC2603		
0205	1 130 473 00	MILAN	0. 0022ur	J./o	304	Q703 Q704	8-729-900-63		2SA1175 DTA124E		
C206	1-136-153-00	FILM	0. 01uF	5%	50V	QIUI	0 120 000 00	TILLIOIDIOIC	DINILIL	5	
C211	1-124-907-11	ELECT	10uF	20%	50V	Q705	8-729-900-63	TRANSISTOR	DTA124E	S	
C212	1-124-907-11	ELECT	10uF	20%	50V	Q707	8-729-119-76	TRANSISTOR	2SA1175	HFE	
C251	1-130-471-00		0.001uF	5%	50V	Q708	8-729-119-76		2SA1175		
C252	1-136-165-00	FILM	0. 1uF	5%	50V	Q801 Q802	8-729-620-05		2SC2603-		
C253	1-136-165-00	FILM	0. 1uF	5%	50V	Q002	8-729-900-36	INANSISIUN	DTC124ES	5	
C254	1-136-156-00		0. 018uF	5%	50V	Q803	8-729-900-36	TRANSISTOR	DTC124ES	S	
C255	1 - 130 - 475 - 00	MYLAR	0.0022uF	5%	50V	Q804	8-729-620-05		2SC2603-	-EF	
C256	1-136-153-00		0.01uF	5%	50V	Q805	8-729-900-63	TRANSISTOR	DTA124ES	5	
C701	1-162-207-31	CERAMIC	22PF	5%	50V						
C702	1-162-207-31	CERAMIC	22PF	5%	50V			< RESISTOR	>		
C703	1-162-294-31		0. 001uF	10%	50V	R201	1-247-903-00	CARBON	1M	5%	1/4
C704	1-164-159-11		0. 1uF	20.0	50V	R202	1-249-431-11		15K	5%	1/4
C705	1-164-159-11	CERAMIC	0. 1uF		50V	R203	1-249-439-11		68K	5%	1/4
C706	1-124-907-11	ELECT	10uF	20%	50V	R204	1-247-848-11	CARBON	5. 1K	5%	1/4
0700	1 100 000 11	(CDANIA)	0.04 5	0.00	4.011	R205	1-249-431-11	CARBON	15K	5%	1/4
C708	1-162-306-11	CERAMIC	0. 01uF	30%	16V	Dauc	1 940 494 11	CARRON	0.71/	50	4 / 40
		< CONNECTOR >				R206 R207	1-249-434-11 1-247-903-00		27K 1M	5% 5%	1/4¥ 1/4¥
						R208	1-249-425-11		4. 7K		1/4
		PLUG, CONNECTOR				R209	1-247-903-00		1M	5%	1/4₩
		HOUSING, CONNECTO				R210	1-247-836-11	CARBON	1.6K	5%	1/4₩
CNP701	1-766-257-11	PIN, CONNECTOR ((PC BOARD)	10P		Date					
		< DIODE >				R217	1-249-441-11 (100K		1/4₩
		VIOLE /				100000000000000000000000000000000000000	1-249-425-11 (1-249-422-11 (4.7K 2.7K		1/4W
D701	8-719-987-63	DIODE 1N4148M					1-249-422-11 (2.7K 470	5% 5%	1/4W 1/4W
D702	8-719-987-63						1-247-903-00 (1M	5%	1/4W
D703	8-719-987-63	DIODE 1N4148M									_, _,

D703 8-719-987-63 DIODE 1N4148M

					P/	ANEL	POWE	ER SW	PS	SIRCS	
Ref. No.	Part No.	Description			Remark	Ref.No.	Part No.	Description	heised	Remark	
R252	1-249-431-11	CARBON	15K	5%	1/4W			< VIBRATOR >			
R253	1-249-439-11	CARBON	68K	5%	1/4W						
R254	1-247-848-11	CARBON	5.1K	5%	1/4W	X701	1-579-223-11	OSCILLATOR,	CERAMIC (8MH:	z)	
R255	1-249-431-11	CARBON	15K	5%	1/4W	******	*******	***********	*****	*****	*
R256	1-249-434-11	CARBON	27K	5%	1/4W						
						*	1-656-834-11	1 POWER SW BOAL	RD		
R257	1-247-903-00	CARBON	1M	5%	1/4W			******	**		
R258	1-249-425-11	CARBON	4.7K	5%	1/4W						
R259	1-247-903-00	CARBON	1M	5%	1/4W			< CONNECTOR 2	> 10811670 T7-1		
R260	1-247-836-11	CARBON	1.6K	5%	1/4W						
R701	1-249-429-11	CARBON	10K	5%	1/4W	CN6	1-564-321-00) PIN, CONNECT	OR 2P		
R702	1-249-429-11	CARBON	10K	5%	1/4W			< SWITCH >			
R703	1-249-425-11	CARBON	4.7K	5%	1/4W						
R704	1-249-425-11	CARBON	4.7K	5%	1/4W	S1	1-554-920-1	1 SWITCH, PUSH	(1 KEY) (SYS)	FEM POWER)	
R705	1-249-425-11	CARBON	4.7K	5%	1/4W	******	******	*****	*****	*****	*
R706	1-249-433-11	CARBON	22K	5%	1/4W						
						*	1-656-841-1	1 PS BOARD			
R707	1-249-433-11	CARBON	22K	5%	1/4W			******			
R708	1-249-433-11	CARBON	22K	5%	1/4W						
R709	1-249-433-11	CARBON	22K	5%	1/4W			< CONNECTOR			
R710	1-249-433-11	CARBON	22K	5%	1/4W						
R711	1-249-433-11		22K	5%	1/4W	CN1	1-580-230-1	1 PIN, CONNECTO	OR (PC BOARD)) 2P	
						* CN2	1-564-321-23	1 PIN, CONNECTO	OR 2P		
R715	1-247-818-11	CARBON	300	5%	1/4W						
R716	1-249-433-11	CARBON	22K	5%	1/4W	<u>∕</u> ∩F1	1-532-259-00) FUSE T1. 6A/2	50V (AEP, G)		
R717	1-249-433-11	CARBON	22K	5%	1/4W	∕î\F3	1-532-259-00) FUSE T1. 6A/2	50V (E)		
R718	1-249-429-11	CARBON	10K	5%	1/4W	<u>∕</u> Î\F4	1-532-259-00) FUSE T1. 6A/2	50V (E)		
R719	1-249-433-11	CARBON	22K	5%	1/4W	******	*********	*****	*****	*****	
R720	1-249-433-11	CARBON	22K	5%	1/4W	*	1-656-831-1	1 SIRCS BOARD			
R721	1-249-433-11	CARBON	22K	5%	1/4W			*****			
R722	1-249-425-11	CARBON	4.7K	5%	1/4W						
R723	1-249-425-11		4.7K	5%	1/4W			< CONNECTOR	>		
R724	1-249-425-11	CARBON	4.7K	5%	1/4W						
						CN703	1-691-766-1	1 PLUG (MICRO	CONNECTOR) 41	p	
R725	1-249-425-11	CARBON	4.7K	5%	1/4W	1.0					
R728	1-249-433-11	CARBON	22K	5%	1/4W			< DIODE >			
R729	1-249-433-11	CARBON	22K	5%	1/4W						
R730	1-249-429-11	CARBON	10K	5%	1/4W	D715	8-719-313-43	3 LED SEL621	OS-TH10 (STAN		
R801	1-249-425-11	CARBON	4.7K	5%	1/4W	1000		0,0229			
						200		< IC $>$			
R803	1-249-429-11	CARBON	10K	5%	1/4W	10.00					
R804	1-249-425-11	CARBON	4.7K	5%	1/4W	10705	8-749-923-4	3 IC GP1U57X	В		
R805	1-249-425-11	CARBON	4.7K	5%	1/4W	******	*****	*****	******	******	ŧ
						- VGS					
		< VARIABLE RESI	STOR >	>		*	1-656-840-1				

		RES, VAR, CARBO									
		RES, VAR, CARBO						< CONNECTOR	>		
RV204	1-223-933-11	RES, VAR, CARBO	ON 250H	K/250K	(BALANCE)						
								1 PLUG, CONNEC			
		< SWITCH >				* CN504	1-564-522-1	1 PLUG, CONNEC	TOR 7P		
S201		SWITCH, PUSH (L						< COIL >			
S202		SWITCH, PUSH (1									
S701	1-692-967-11	SWITCH, ROTARY	(INPUT	SELE	CTOR)			D COIL, AIR-CO			
						* L551	1-420-872-0	D COIL, AIR-CO	RE		
							omponents iden				
								line with mark			
						A are	e critical fo	r safety.			
							ce only with				

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C601

C602

C801

C802

C803

C804

D601 D801 1-106-375-12 MYLAR

1-136-153-00 FILM

1-126-941-11 ELECT

1-104-664-11 ELECT

1-126-941-11 ELECT

* CN601 1-564-519-11 PLUG, CONNECTOR 4P * CN603 1-564-520-11 PLUG. CONNECTOR 5P

D401 8-719-024-99 DIODE 11ES2-NTA2B 8-719-302-38 DIODE RBV-602-01

8-719-024-99 DIODE 11ES2-NTA2B D802 8-719-024-99 DIODE 11ES2-NTA2B

< CONNECTOR >

< DIODE >

0.022uF

0.01uF

470uF

47uF

470uF

5%

5%

20%

20%

20%

200V

50V

25V

16V

25V

SP

TRANS-E **TRANS-J** SP SW TRANS VOLUME Ref. No. Part No. Description Remark Ref. No. Part No. Description Remark < DIODE > D803 8-719-024-99 DIODE 11ES2-NTA2B D501 8-719-987-63 DIODE 1N4148M D804 8-719-024-99 DIODE 11ES2-NTA2B D502 8-719-987-63 DIODE 1N4148M 8-719-987-63 DIODE 1N4148M D805 < RESISTOR > < IC >R501 1-247-727-11 CARBON 1/2W10 5% IC801 8-759-231-53 IC TA7805S R551 1-247-727-11 CARBON 1/2W 10 5% < RESISTOR > < RELAY > R408 1-249-437-11 CARBON 47K 5% 1/4WRY501 1-515-921-11 RELAY (12V) ⚠R806 1-249-447-11 CARBON 1 5% 1/4W F RY502 1-515-921-11 RELAY (12V) < RELAY > < TERMINAL > RY801 1-755-018-11 RELAY TM501 1-537-921-11 TERMINAL BOARD (SPEAKERS) RY802 1-755-018-11 RELAY ************ ********* 1-656-842-11 SP SW BOARD 1-656-844-11 TRANS-E BOARD (E) ***** ***** < CONNECTOR > 1-533-233-11 HOLDER, FUSE (E) CN502 1-691-766-11 PLUG (MICRO CONNECTOR) 4P < CONNECTOR > < SWITCH > * CN8 1-580-618-11 PIN. CONNECTOR 5P (E) ****** S501 1-762-389-11 SWITCH, ROTARY (SPEAKERS) ********** 1-656-835-11 TRANS-J BOARD (AEP, G) ***** 1-657-753-11 TRANS BOARD ***** ********** 1-533-233-11 HOLDER, FUSE (AEP, G) 1-656-837-11 VOLUME BOARD ***** < CAPACITOR > < CAPACITOR > 1-106-375-12 MYLAR 0.022uF 200V 5%

C213 1-136-165-00 FILM 0. 1uF 5% 50V

< CONNECTOR >

* CNP202 1-568-455-11 PIN, CONNECTOR (PC BOARD) 10P

< VARIABLE RESISTOR >

RV201 1-223-932-11 RES, VAR, CARBON 120K/120K (VOLUME)

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

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Digitized Ref. No. Part No. Description Remark by WWW.FREESERVICEMANUALS.INFO * 1-656-845-11 VOL SEL BOARD (E) ***** < VOLTAGE SELECTOR > ∕∆VS1 1-692-155-11 SELECTOR, POWER VOLTAGE (VOLTAGE SELECT) (E) ***** MISCELLANEOUS ***** ₫61 1-569-007-11 ADAPTER, CONVERSION 2P (E) ⚠CNP1 1-558-943-41 CORD, POWER (E) ▲CNP1 1-575-651-21 CORD, POWER (AEP, G) <u>∧</u>T1 1-429-080-11 TRANSFORMER, POWER (AEP, G) **∆**T1 1-429-081-11 TRANSFORMER, POWER (E) ******* ACCESSORIES & PACKING MATERIALS

1-693-131-11 REMOTE COMMANDER (RM-S311) 2-181-754-01 COVER, BATTERY (FOR RM-S311) 3-798-913-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP, E) 3-798-913-21 MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP) 3-798-913-31 MANUAL, INSTRUCTION (GERMAN) (German)

* 4-967-239-01 CUSHION

4-977-071-01 INDIVIDUAL, CARTON

The components identified by mark \hat{A} or dotted line with mark \hat{A} are critical for safety. Replace only with part number specified.

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