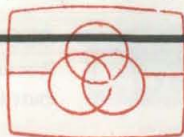


TA-F211/F242

SERVICE MANUAL



Free service manuals

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AEP Model
UK Model
E Model
Australian Model
 TA-F211
UK Model
 TA-F242



Photo : TA-F211

SPECIFICATIONS

Amplifier

Continuous RMS power output (both channels driven simultaneously)

Model for Scandinavian countries, Spain and Portugal

TA-F211		
DIN, 1 kHz	8 ohms	45 W + 45 W
20 Hz – 20 kHz	8 ohms	30 W + 30 W THD 0.05%

Model for U.K. and Australia

		TA-F211	TA-F242*
DIN, 1 kHz	8 ohms	45 W + 45 W	70 W + 70 W
20 Hz – 20 kHz	8 ohms	30 W + 30 W THD 0.05%	60 W + 60 W THD 0.05%

* U.K. model only

Model for other European countries

TA-F211		
DIN, 1 kHz	4 ohms	55 W + 55 W
	8 ohms	45 W + 45 W
20 Hz – 20 kHz	4 ohms	–
	8 ohms	30 W + 30 W THD 0.05%

Tone controls

	Response	Turnover frequency
BASS	± 6 dB	500 Hz
TREBLE	± 6 dB	3 kHz

Input

Input jack	Jack type	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	Phono	2.0 mV	50 kilohms	76 dB (A, 5 mV)
TUNER, CD, AUX, DAT/TAPE 1 TAPE 2	Phono	150 mV	50 kilohms	96 dB (150 mV)

Output

Output jack	Jack type	Voltage/impedance
REC OUT	Phono jack	Voltage 150 mV Impedance 1 kohm
SPEAKERS	–	<ul style="list-style-type: none"> Models except for Germany: Accepts speakers of 8 – 16 ohms Model for other countries: Accepts speakers of 4 – 16 ohms
HEADPHONES	Stereophono jack	Accepts low and high impedance headphones

– Continued on next page –



INTEGRATED STEREO AMPLIFIER

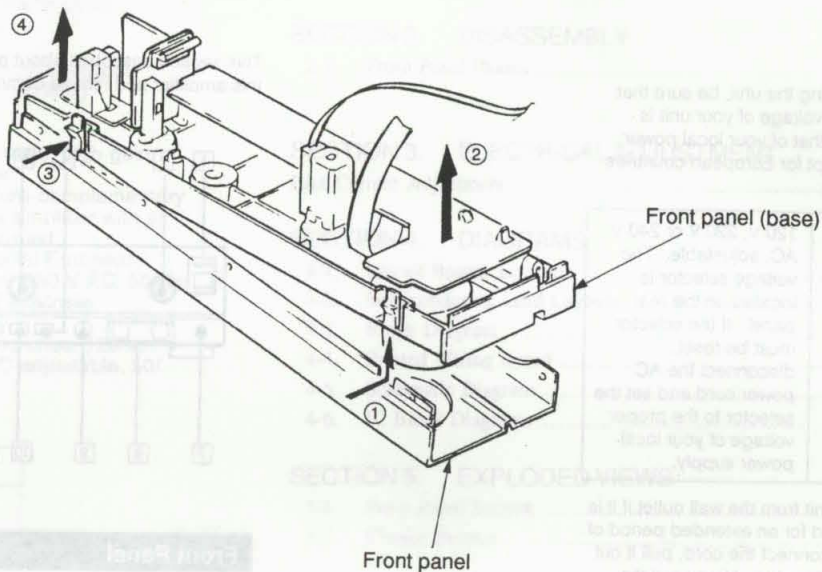
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SECTION 2 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical given.

2-1. FRONT PANEL (BASE)



SECTION 3 ELECTRICAL ADJUSTMENT

Note :

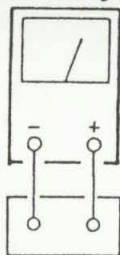
- Adjustment should be performed 5 minutes after the POWER switch is on (POWER ON).

Bias Current Adjustment

Setting :

VOLUME control : minimum

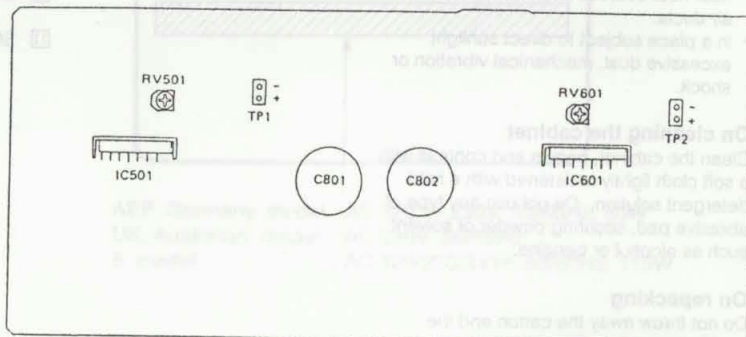
VOM
(DC V range)



TP1 (L-CH)
or
TP2 (R-CH)
on AMP board

Adjustment Location :

[AMP BOARD] — Component Side —



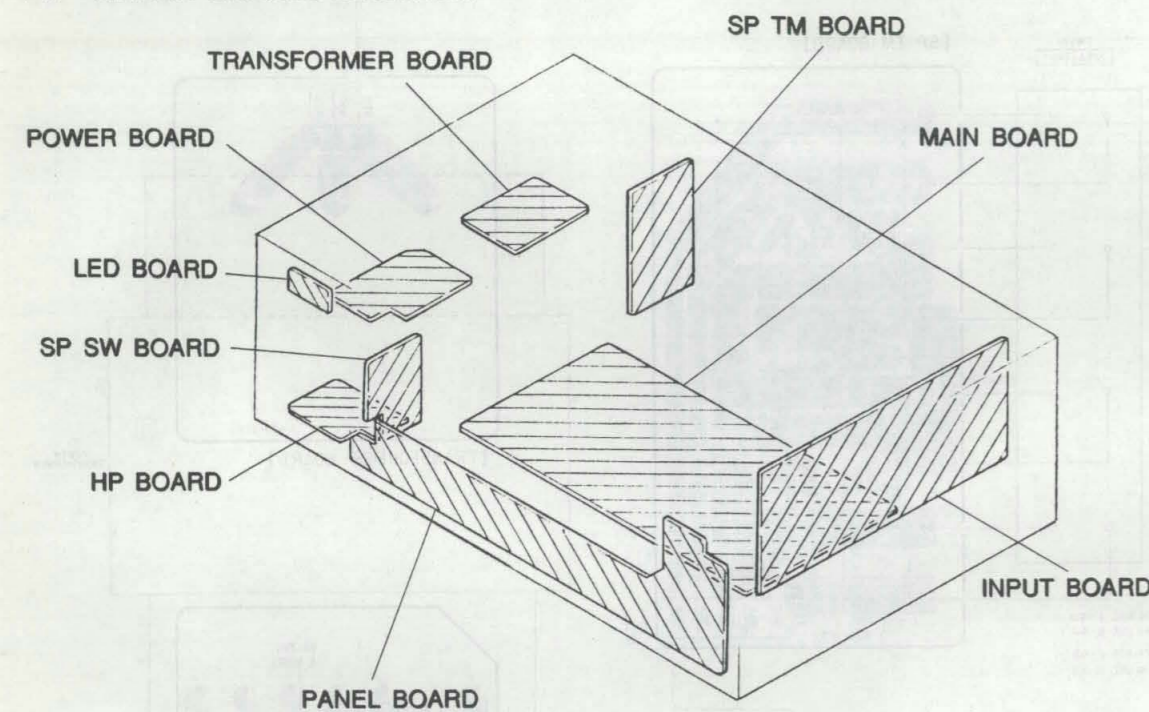
Procedure :

Adjust RV501 (L-CH) and RV601 (R-CH) so as to obtain 4mV at TP1 (L-CH) and TP2 (R-CH) respectively.

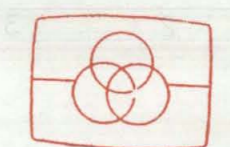
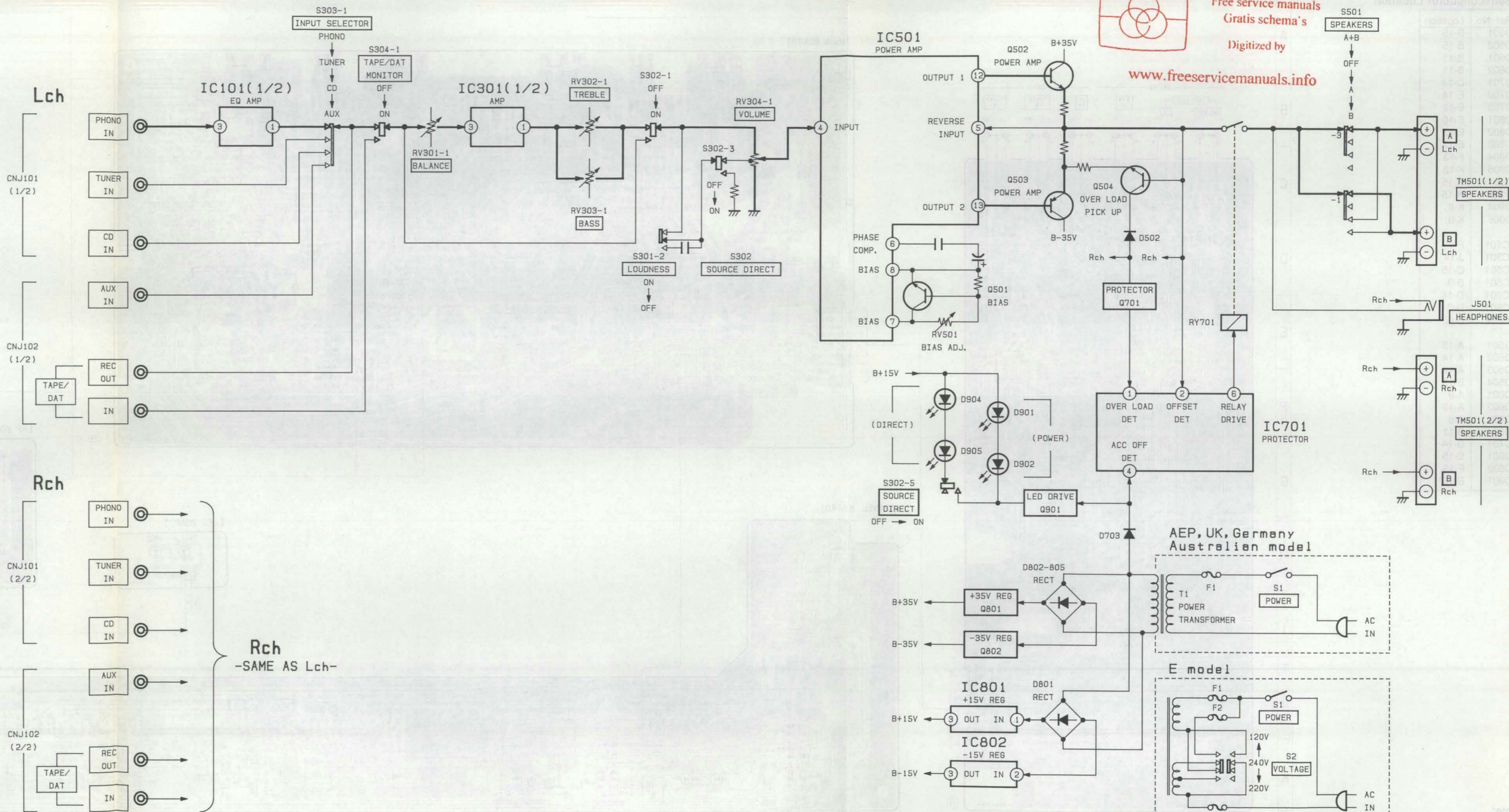
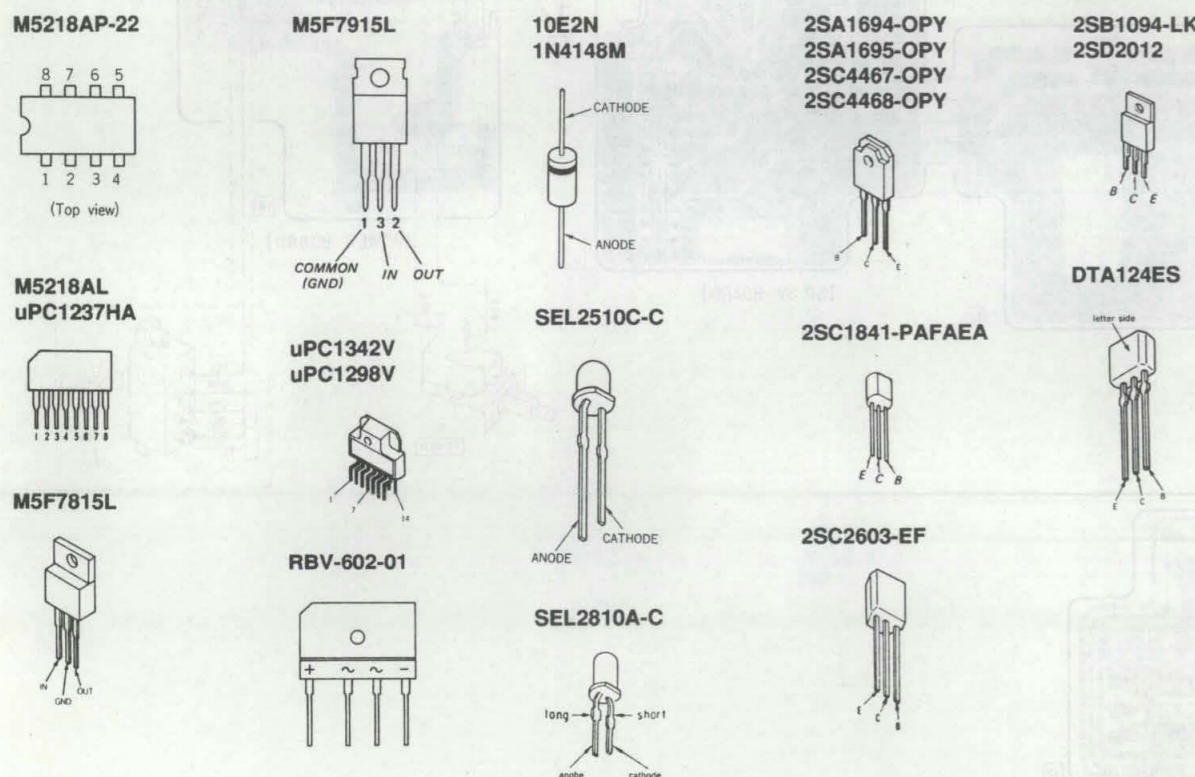
SECTION 4 DIAGRAMS

4-3. BLOCK DIAGRAM

4-1. CIRCUIT BOARDS LOCATION



4-2. SEMICONDUCTOR LEAD LAYOUTS



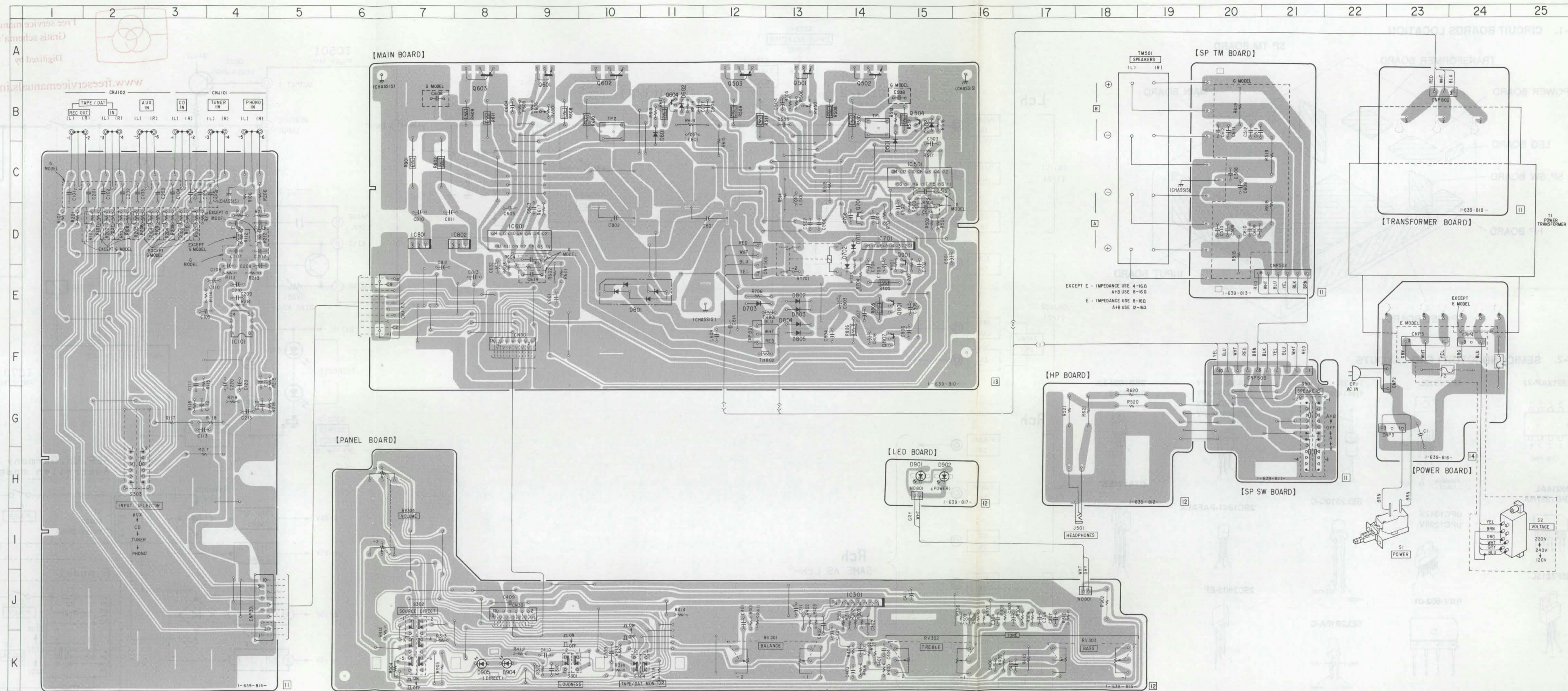
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4-4. PRINTED WIRING BOARD

• See page 5 for Circuit Boards Location and Semiconductor Lead Layouts.

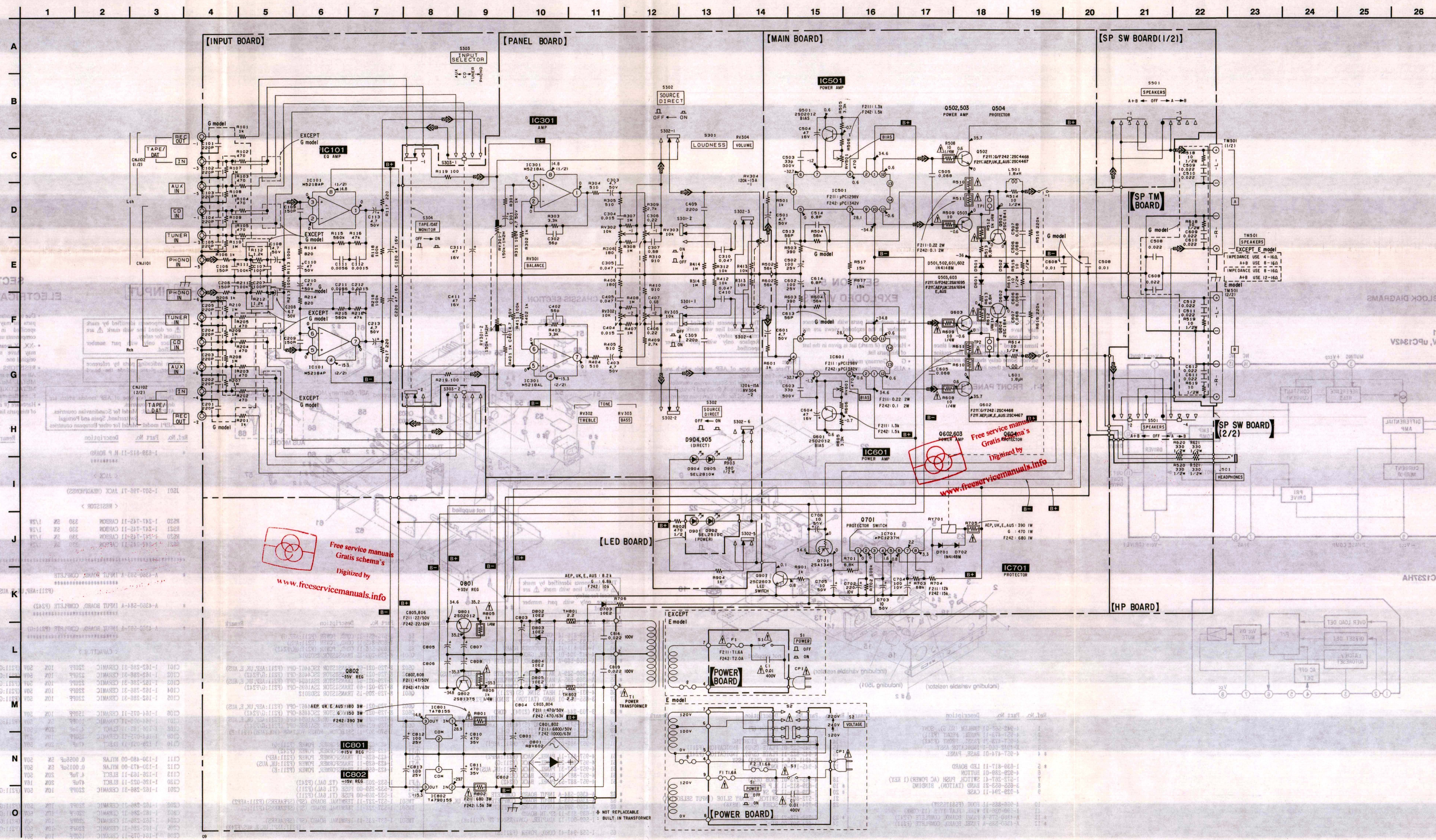
• Semiconductor Location

Ref. No.	Location
D501	B-15
D502	B-15
D601	B-11
D602	B-11
D701	D-14
D702	E-14
D703	E-12
D801	E-10
D802	E-13
D803	E-13
D804	F-13
D805	F-13
D901	H-15
D902	H-15
D904	K-8
D905	K-8
IC101	F-4
IC301	J-14
IC501	C-15
IC601	D-9
IC701	D-14
IC801	D-7
IC802	D-8
Q501	A-13
Q502	A-14
Q503	A-12
Q504	B-15
Q601	A-9
Q602	A-10
Q603	A-8
Q604	B-11
Q701	D-14
Q801	E-15
Q802	F-15
Q901	E-15



Note:
 • ○ — : parts extracted from the components side. [INPUT BOARD]
 • G : Germany
 • AUS : Australian

4-5. SCHEMATIC DIAGRAM
• See page 15 for IC Block Diagrams.



SECTION 6
ELECTRICAL PARTS LIST

Part No.	Description	Part No.	Description
C201	1-184-030-11 CERAMIC	R201	1-241-142-11 CARBON
C202	1-128-183-11 ELECT	R202	1-241-142-11 CARBON
C203	1-128-183-11 ELECT	R203	1-241-142-11 CARBON
C204	1-184-038-11 CERAMIC	R204	1-241-142-11 CARBON
C205	1-128-183-11 ELECT	R205	1-241-142-11 CARBON
C206	1-128-183-11 ELECT	R206	1-241-142-11 CARBON
C207	1-128-183-11 ELECT	R207	1-241-142-11 CARBON
C208	1-128-183-11 ELECT	R208	1-241-142-11 CARBON
C209	1-128-183-11 ELECT	R209	1-241-142-11 CARBON
C210	1-128-183-11 ELECT	R210	1-241-142-11 CARBON
C211	1-128-183-11 ELECT	R211	1-241-142-11 CARBON
C212	1-128-183-11 ELECT	R212	1-241-142-11 CARBON
C213	1-128-183-11 ELECT	R213	1-241-142-11 CARBON
C214	1-128-183-11 ELECT	R214	1-241-142-11 CARBON
C215	1-128-183-11 ELECT	R215	1-241-142-11 CARBON
C216	1-128-183-11 ELECT	R216	1-241-142-11 CARBON
C217	1-128-183-11 ELECT	R217	1-241-142-11 CARBON
C218	1-128-183-11 ELECT	R218	1-241-142-11 CARBON
C219	1-128-183-11 ELECT	R219	1-241-142-11 CARBON
C220	1-128-183-11 ELECT	R220	1-241-142-11 CARBON
C221	1-128-183-11 ELECT	R221	1-241-142-11 CARBON
C222	1-128-183-11 ELECT	R222	1-241-142-11 CARBON
C223	1-128-183-11 ELECT	R223	1-241-142-11 CARBON
C224	1-128-183-11 ELECT	R224	1-241-142-11 CARBON
C225	1-128-183-11 ELECT	R225	1-241-142-11 CARBON
C226	1-128-183-11 ELECT	R226	1-241-142-11 CARBON
C227	1-128-183-11 ELECT	R227	1-241-142-11 CARBON
C228	1-128-183-11 ELECT	R228	1-241-142-11 CARBON
C229	1-128-183-11 ELECT	R229	1-241-142-11 CARBON
C230	1-128-183-11 ELECT	R230	1-241-142-11 CARBON
C231	1-128-183-11 ELECT	R231	1-241-142-11 CARBON
C232	1-128-183-11 ELECT	R232	1-241-142-11 CARBON
C233	1-128-183-11 ELECT	R233	1-241-142-11 CARBON
C234	1-128-183-11 ELECT	R234	1-241-142-11 CARBON
C235	1-128-183-11 ELECT	R235	1-241-142-11 CARBON
C236	1-128-183-11 ELECT	R236	1-241-142-11 CARBON
C237	1-128-183-11 ELECT	R237	1-241-142-11 CARBON
C238	1-128-183-11 ELECT	R238	1-241-142-11 CARBON
C239	1-128-183-11 ELECT	R239	1-241-142-11 CARBON
C240	1-128-183-11 ELECT	R240	1-241-142-11 CARBON
C241	1-128-183-11 ELECT	R241	1-241-142-11 CARBON
C242	1-128-183-11 ELECT	R242	1-241-142-11 CARBON
C243	1-128-183-11 ELECT	R243	1-241-142-11 CARBON
C244	1-128-183-11 ELECT	R244	1-241-142-11 CARBON
C245	1-128-183-11 ELECT	R245	1-241-142-11 CARBON
C246	1-128-183-11 ELECT	R246	1-241-142-11 CARBON
C247	1-128-183-11 ELECT	R247	1-241-142-11 CARBON
C248	1-128-183-11 ELECT	R248	1-241-142-11 CARBON
C249	1-128-183-11 ELECT	R249	1-241-142-11 CARBON
C250	1-128-183-11 ELECT	R250	1-241-142-11 CARBON
C251	1-128-183-11 ELECT	R251	1-241-142-11 CARBON
C252	1-128-183-11 ELECT	R252	1-241-142-11 CARBON
C253	1-128-183-11 ELECT	R253	1-241-142-11 CARBON
C254	1-128-183-11 ELECT	R254	1-241-142-11 CARBON
C255	1-128-183-11 ELECT	R255	1-241-142-11 CARBON
C256	1-128-183-11 ELECT	R256	1-241-142-11 CARBON
C257	1-128-183-11 ELECT	R257	1-241-142-11 CARBON
C258	1-128-183-11 ELECT	R258	1-241-142-11 CARBON
C259	1-128-183-11 ELECT	R259	1-241-142-11 CARBON
C260	1-128-183-11 ELECT	R260	1-241-142-11 CARBON
C261	1-128-183-11 ELECT	R261	1-241-142-11 CARBON
C262	1-128-183-11 ELECT	R262	1-241-142-11 CARBON
C263	1-128-183-11 ELECT	R263	1-241-142-11 CARBON
C264	1-128-183-11 ELECT	R264	1-241-142-11 CARBON
C265	1-128-183-11 ELECT	R265	1-241-142-11 CARBON
C266	1-128-183-11 ELECT	R266	1-241-142-11 CARBON
C267	1-128-183-11 ELECT	R267	1-241-142-11 CARBON
C268	1-128-183-11 ELECT	R268	1-241-142-11 CARBON
C269	1-128-183-11 ELECT	R269	1-241-142-11 CARBON
C270	1-128-183-11 ELECT	R270	1-241-142-11 CARBON
C271	1-128-183-11 ELECT	R271	1-241-142-11 CARBON
C272	1-128-183-11 ELECT	R272	1-241-142-11 CARBON
C273	1-128-183-11 ELECT	R273	1-241-142-11 CARBON
C274	1-128-183-11 ELECT	R274	1-241-142-11 CARBON
C275	1-128-183-11 ELECT	R275	1-241-142-11 CARBON
C276	1-128-183-11 ELECT	R276	1-241-142-11 CARBON
C277	1-128-183-11 ELECT	R277	1-241-142-11 CARBON
C278	1-128-183-11 ELECT	R278	1-241-142-11 CARBON
C279	1-128-183-11 ELECT	R279	1-241-142-11 CARBON
C280	1-128-183-11 ELECT	R280	1-241-142-11 CARBON
C281	1-128-183-11 ELECT	R281	1-241-142-11 CARBON
C282	1-128-183-11 ELECT	R282	1-241-142-11 CARBON
C283	1-128-183-11 ELECT	R283	1-241-142-11 CARBON
C284	1-128-183-11 ELECT	R284	1-241-142-11 CARBON
C285	1-128-183-11 ELECT	R285	1-241-142-11 CARBON
C286	1-128-183-11 ELECT	R286	1-241-142-11 CARBON
C287	1-128-183-11 ELECT	R287	1-241-142-11 CARBON
C288	1-128-183-11 ELECT	R288	1-241-142-11 CARBON
C289	1-128-183-11 ELECT	R289	1-241-142-11 CARBON
C290	1-128-183-11 ELECT	R290	1-241-142-11 CARBON
C291	1-128-183-11 ELECT	R291	1-241-142-11 CARBON
C292	1-128-183-11 ELECT	R292	1-241-142-11 CARBON
C293	1-128-183-11 ELECT	R293	1-241-142-11 CARBON
C294	1-128-183-11 ELECT	R294	1-241-142-11 CARBON
C295	1-128-183-11 ELECT	R295	1-241-142-11 CARBON
C296	1-128-183-11 ELECT	R296	1-241-142-11 CARBON
C297	1-128-183-11 ELECT	R297	1-241-142-11 CARBON
C298	1-128-183-11 ELECT	R298	1-241-142-11 CARBON
C299	1-128-183-11 ELECT	R299	1-241-142-11 CARBON
C300	1-128-183-11 ELECT	R300	1-241-142-11 CARBON

Note:

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

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

B+ : B+ Line
B- : B- Line

\square : panel designation, and adjustment for repair.

Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.

Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

Signal path.

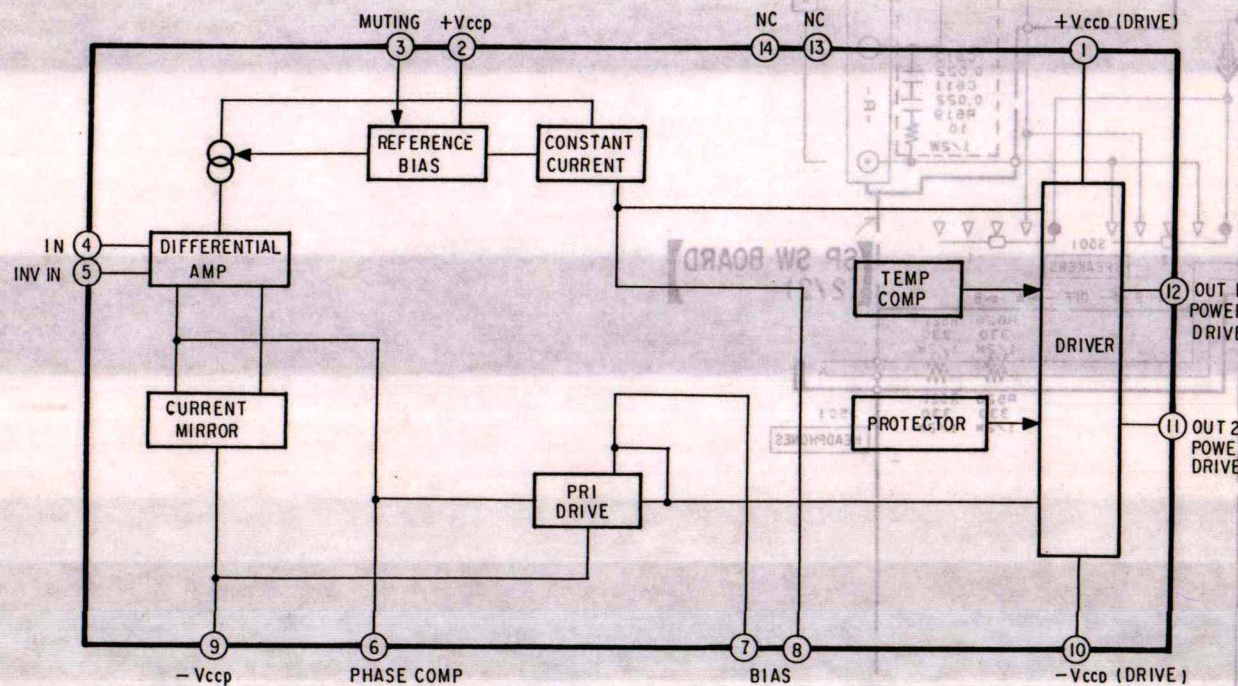
\square : PHONO

G : Germany
 AUS : Australian

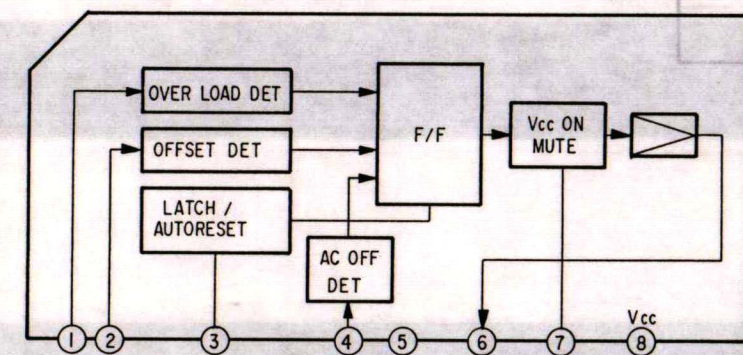
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4-6. IC BLOCK DIAGRAMS

IC501, 601 uPC1298V, uPC1342V



IC701 uPC1237HA



SECTION 5 EXPLODED VIEWS

NOTE:

- XX, -X mean standardized parts, so they may have some difference from the original one.
Items marked "*" are not stocked since they are seldom required for routine service.

- The mechanical parts with no reference number in the exploded views are not supplied.
Hardware (# mark) list is given in the last of this parts list.
G : Germany model
AUS : Australian model

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

Note: There are two type of AEP models which are depend on countries. AEP2 model: Model for Scandinavian countries, Switzerland, Spain and Portugal. AEP1 model: Model for other European countries.

5-1. FRONT PANEL SECTION

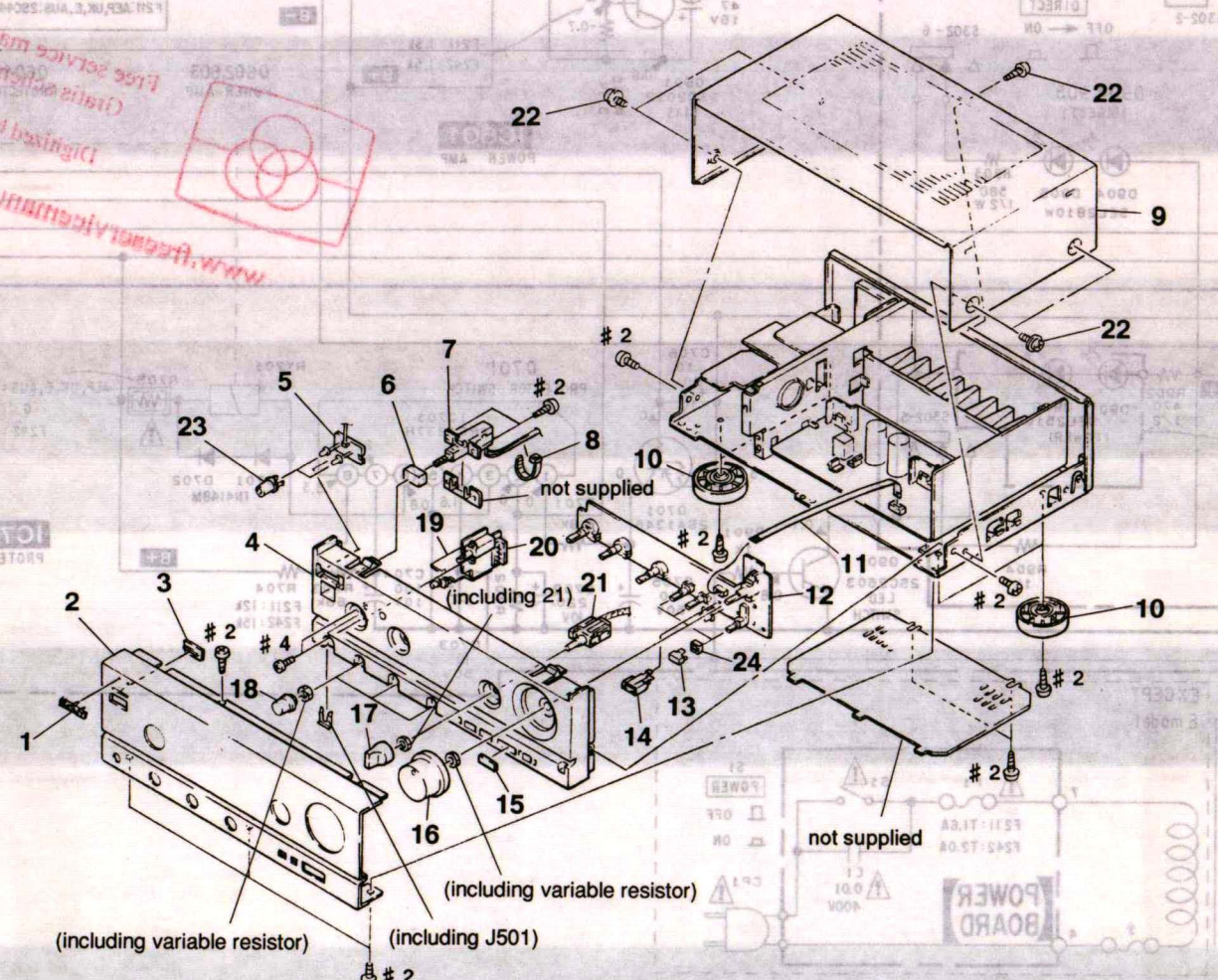
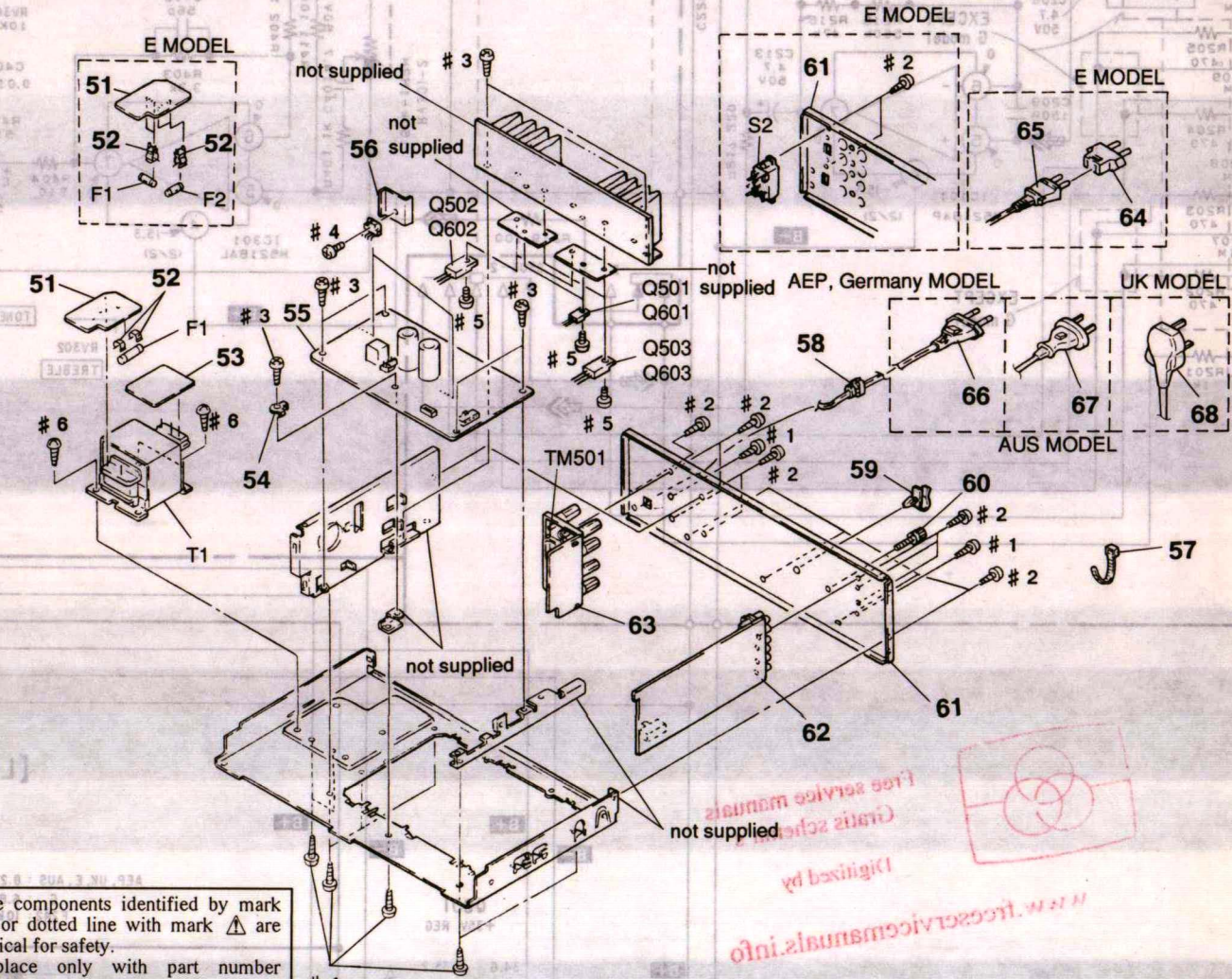


Table with 4 columns: Ref. No., Part No., Description, Remark. Lists parts for the front panel section.

5-2. CHASSIS SECTION



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

Table with 4 columns: Ref. No., Part No., Description, Remark. Lists parts for the chassis section.

SECTION 6 ELECTRICAL PARTS LIST

H.P INPUT

NOTE:

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

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

Note: There are two type of AEP models which are depend on countries. AEP2 model: Model for Scandinavian countries, Switzerland, Spain and Portugal. AEP1 model: Model for other European countries.

Large table with 4 columns: Ref. No., Part No., Description, Remark. Lists electrical parts for the H.P. input section.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R208	1-247-903-00	CARBON	1M 5% 1/4W	< CAPACITOR >			
R209	1-247-903-00	CARBON	1M 5% 1/4W	C501	1-126-163-11	ELECT 4.7uF 20% 50V	
R210	1-247-903-00	CARBON	1M 5% 1/4W	C502	1-126-023-11	ELECT 100uF 20% 25V	
R211	1-249-441-11	CARBON	100K 5% 1/4W	C503	1-102-316-00	CERAMIC 15PF 5% 500V	
R212	1-249-418-11	CARBON	1.2K 5% 1/4W (F211:G)	C504	1-126-022-11	ELECT 47uF 20% 16V	
R213	1-249-441-11	CARBON	100K 5% 1/4W	C505	1-136-163-00	FILM 0.068uF 5% 50V	
R214	1-249-416-11	CARBON	820 5% 1/4W	C506	1-136-163-00	FILM 0.068uF 5% 50V	
R215	1-247-897-11	CARBON	560K 5% 1/4W	C507	1-136-163-00	FILM 0.068uF 5% 50V	
R216	1-249-437-11	CARBON	47K 5% 1/4W	C508	1-136-153-00	FILM 0.01uF 5% 50V (F211:G)	
R217	1-249-409-11	CARBON	220 5% 1/4W	C513	1-162-217-31	CERAMIC 56PF 5% 50V (F211:G)	
R218	1-249-441-11	CARBON	100K 5% 1/4W	C514	1-162-197-31	CERAMIC 6.8PF 10% 50V (F211:G)	
R506	1-249-419-11	CARBON	1.5K 5% 1/4W (F242)	C601	1-126-163-11	ELECT 4.7uF 20% 50V	
△R510	1-217-611-00	RES, METAL PLATE	0.1 2W (F242)	C602	1-126-023-11	ELECT 100uF 20% 25V	
△R511	1-217-611-00	RES, METAL PLATE	0.1 2W (F242)	C603	1-102-316-00	CERAMIC 15PF 5% 500V	
R606	1-249-419-11	CARBON	1.5K 5% 1/4W (F242)	C604	1-126-022-11	ELECT 47uF 20% 16V	
△R610	1-217-611-00	RES, METAL PLATE	0.1 2W (F242)	C605	1-136-163-00	FILM 0.068uF 5% 50V	
△R611	1-217-611-00	RES, METAL PLATE	0.1 2W (F242)	C606	1-136-163-00	FILM 0.068uF 5% 50V	
R704	1-249-431-11	CARBON	15K 5% 1/4W (F242)	C607	1-136-163-00	FILM 0.068uF 5% 50V	
△R705	1-215-868-00	METAL OXIDE	680 5% 1W (F242)	C608	1-136-153-00	FILM 0.01uF 5% 50V (F211:G)	
R706	1-249-429-11	CARBON	10K 5% 1/4W (F242)	C613	1-162-217-31	CERAMIC 56PF 5% 50V (F211:G)	
△R801	1-216-478-11	METAL OXIDE	390 5% 3W (F242)	C614	1-162-197-31	CERAMIC 6.8PF 10% 50V (F211:G)	
△R802	1-215-918-00	METAL OXIDE	1.5K 5% 3W (F242)	C702	1-124-995-11	ELECT 220uF 20% 10V	
< SWITCH >				C703	1-126-059-11	ELECT 10uF 20% 50V	
S303	1-572-804-11	SWITCH, SLIDE (INPUT SELECTOR)		C704	1-124-994-11	ELECT 100uF 20% 10V	
*****				C705	1-126-059-11	ELECT 10uF 20% 50V	
*	1-639-817-11	LED BOARD		C706	1-126-059-11	ELECT 10uF 20% 50V	
*****				C801	1-125-683-11	ELECT 10000uF 20% 63V (F242)	
< DIODE >				C801	1-125-686-11	ELECT 6800uF 20% 50V (F211)	
D901	8-719-303-00	LED SEL2510C-C		C802	1-125-683-11	ELECT 10000uF 20% 63V (F242)	
D902	8-719-303-00	LED SEL2510C-C		C802	1-125-686-11	ELECT 6800uF 20% 50V (F211)	
*****				C803	1-126-055-11	ELECT 470uF 20% 50V (F211)	
*	A-4360-580-A	MAIN BOARD, COMPLETE (F242)		C803	1-126-066-11	ELECT 470uF 20% 63V (F242)	
*****				C804	1-126-055-11	ELECT 470uF 20% 50V (F211)	
*	A-4360-589-A	MAIN BOARD, COMPLETE (F211:AEP, UK, E, AUS)		C804	1-126-066-11	ELECT 470uF 20% 63V (F242)	
*****				C805	1-126-049-11	ELECT 22uF 20% 50V (F211)	
*	A-4360-595-A	MAIN BOARD, COMPLETE (F211:G)		C805	1-126-060-11	ELECT 22uF 20% 63V (F242)	
*****				C806	1-126-049-11	ELECT 22uF 20% 50V (F211)	
*	A-4360-598-A	MAIN BOARD, COMPLETE (F211:E)		C806	1-126-060-11	ELECT 22uF 20% 63V (F242)	
*****				C807	1-126-051-11	ELECT 47uF 20% 50V (F211)	
*	4-931-998-11	HEAT SINK (S) (F211)		C807	1-126-062-11	ELECT 47uF 20% 63V (F242)	
*	4-942-204-01	PLATE, GROUND		C808	1-126-051-11	ELECT 47uF 20% 50V (F211)	
*	7-682-548-04	SCREW +BVTT 3X8 (S)		C808	1-126-062-11	ELECT 47uF 20% 63V (F242)	
				C809	1-106-375-12	MYLAR 0.022uF 5% 200V	
				C810	1-126-104-11	ELECT 470uF 20% 35V	
				C811	1-126-104-11	ELECT 470uF 20% 35V	
				C812	1-126-023-11	ELECT 100uF 20% 25V	
				C813	1-126-023-11	ELECT 100uF 20% 25V	
				C814	1-106-375-12	MYLAR 0.022uF 5% 200V	

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

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< CONNECTOR >							
CN501	1-568-443-11	SOCKET, CONNECTOR 13P		Q604	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
* CNJ103	1-573-299-11	CONNECTOR, BOARD TO BOARD 10P		Q701	8-729-900-63	TRANSISTOR DTA124ES	
* CNP503	1-506-599-11	PIN, CONNECTOR (B10P-VH) 10P		Q801	8-729-209-15	TRANSISTOR 2SD2012	
* CNP505	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P		Q802	8-729-141-83	TRANSISTOR 2SB1094-LK	
* CNP801	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P		Q901	8-729-620-05	TRANSISTOR 2SC2603-EF	
< DIODE >				< RESISTOR >			
D501	8-719-987-63	DIODE 1N4148M		R501	1-249-417-11	CARBON 1K 5% 1/4W	
D502	8-719-987-63	DIODE 1N4148M		R502	1-249-438-11	CARBON 56K 5% 1/4W	
D601	8-719-987-63	DIODE 1N4148M		R503	1-249-412-11	CARBON 390 5% 1/4W	
D602	8-719-987-63	DIODE 1N4148M		R504	1-249-466-11	CARBON 56K 5% 1/4W	
D701	8-719-987-63	DIODE 1N4148M		R505	1-249-423-11	CARBON 3.3K 5% 1/4W	
D702	8-719-987-63	DIODE 1N4148M		R506	1-247-834-11	CARBON 1.3K 5% 1/4W (F211)	
D703	8-719-200-77	DIODE 10E2N		△R508	1-247-688-11	CARBON 10 5% 1/4W F	
D801	8-719-302-38	DIODE RBV-602-01		△R509	1-247-688-11	CARBON 10 5% 1/4W F	
D802	8-719-200-77	DIODE 10E2N		△R510	1-216-361-00	METAL OXIDE 0.22 5% 2W F (F211)	
D803	8-719-200-77	DIODE 10E2N		△R511	1-216-361-00	METAL OXIDE 0.22 5% 2W F (F211)	
D804	8-719-200-77	DIODE 10E2N		△R512	1-247-713-11	CARBON 1K 5% 1/4W F	
D805	8-719-200-77	DIODE 10E2N		R513	1-249-427-11	CARBON 6.8K 5% 1/4W	
< IC >				R514	1-247-727-11	CARBON 10 5% 1/2W	
IC501	8-759-109-06	IC uPC1298V (F211)		R515	1-247-727-11	CARBON 10 5% 1/2W	
IC501	8-759-144-04	IC uPC1342V (F242)		R516	1-247-887-00	CARBON 220K 5% 1/4W	
IC601	8-759-109-06	IC uPC1298V (F211)		R517	1-249-431-11	CARBON 15K 5% 1/4W	
IC601	8-759-144-04	IC uPC1342V (F242)		R601	1-249-417-11	CARBON 1K 5% 1/4W	
IC701	8-759-111-68	IC uPC1237HA		R602	1-249-438-11	CARBON 56K 5% 1/4W	
IC801	8-759-231-59	IC M5F7815L		R603	1-249-412-11	CARBON 390 5% 1/4W	
IC802	8-759-245-87	IC M5F7915L		R604	1-249-466-11	CARBON 56K 5% 1/4W	
< COIL >				R605	1-249-423-11	CARBON 3.3K 5% 1/4W	
L501	1-420-872-00	COIL, AIR CORE 1.8uH		R606	1-247-834-11	CARBON 1.3K 5% 1/4W (F211)	
L601	1-420-872-00	COIL, AIR CORE 1.8uH		△R608	1-247-688-11	CARBON 10 5% 1/4W F	
< TRANSISTOR >				△R609	1-247-688-11	CARBON 10 5% 1/4W F	
Q501	8-729-209-15	TRANSISTOR 2SD2012		△R610	1-216-361-00	METAL OXIDE 0.22 5% 2W F (F211)	
Q502	8-729-021-68	TRANSISTOR 2SC4468-OPY (F211:G/F242)		△R611	1-216-361-00	METAL OXIDE 0.22 5% 2W F (F211)	
Q502	8-729-021-66	TRANSISTOR 2SC4467-OPY (F211:AEP, UK, E, AUS)		△R612	1-247-713-11	CARBON 1K 5% 1/4W F	
Q503	8-729-021-69	TRANSISTOR 2SA1695-OPY (F211:G/F242)		R613	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q503	8-729-021-67	TRANSISTOR 2SA1694-OPY (F211:AEP, UK, E, AUS)		R614	1-247-727-11	CARBON 10 5% 1/2W	
Q504	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R615	1-247-727-11	CARBON 10 5% 1/2W	
Q601	8-729-209-15	TRANSISTOR 2SD2012		R616	1-247-887-00	CARBON 220K 5% 1/4W	
Q602	8-729-021-68	TRANSISTOR 2SC4468-OPY (F211:G/F242)		R617	1-249-431-11	CARBON 15K 5% 1/4W	
Q602	8-729-021-66	TRANSISTOR 2SC4467-OPY (F211:AEP, UK, E, AUS)		R701	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q603	8-729-021-69	TRANSISTOR 2SA1695-OPY (F211:G/F242)		R702	1-249-441-11	CARBON 100K 5% 1/4W	
Q603	8-729-021-67	TRANSISTOR 2SA1694-OPY (F211:AEP, UK, E, AUS)		R703	1-249-439-11	CARBON 68K 5% 1/4W	
Q604	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R704	1-249-430-11	CARBON 12K 5% 1/4W (F211)	
Q605	8-729-209-15	TRANSISTOR 2SD2012		△R705	1-215-867-00	METAL OXIDE 470 5% 1W F (F211:G)	
Q606	8-729-021-68	TRANSISTOR 2SC4468-OPY (F211:G/F242)		△R705	1-216-430-11	METAL OXIDE 390 5% 1W F (F211:AEP, UK, E, AUS)	
Q606	8-729-021-66	TRANSISTOR 2SC4467-OPY (F211:AEP, UK, E, AUS)		△R706	1-249-427-11	CARBON 6.8K 5% 1/4W F (F211:G)	
Q607	8-729-021-69	TRANSISTOR 2SA1695-OPY (F211:G/F242)		△R706	1-249-428-11	CARBON 8.2K 5% 1/4W F (F211:AEP, UK, E, AUS)	
Q607	8-729-021-67	TRANSISTOR 2SA1694-OPY (F211:AEP, UK, E, AUS)		△R801	1-215-912-11	METAL OXIDE 150 5% 3W F (F211:G)	

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REMO T TRANSFORMER

SP TM SP SW

MAIN PANEL

Ref.No.	Part No.	Description	Remark
△R801	1-216-476-11	METAL OXIDE 180 5% 3W F (F211:AEP, UK, E, AUS)	
△R802	1-215-916-00	METAL OXIDE 680 5% 3W F (F211)	
△R805	1-247-713-11	CARBON 1K 5% 1/4W F	
△R806	1-247-713-11	CARBON 1K 5% 1/4W F	
R901	1-249-417-11	CARBON 1K 5% 1/4W	
< VARIABLE RESISTOR >			
RV501	1-238-596-11	RES, ADJ, CAREBON 470	
RV601	1-238-596-11	RES, ADJ, CAREBON 470	
< RELAY >			
RY701	1-515-501-00	RELAY	
< THERMISTOR >			
TH801	1-806-882-11	THERMISTOR, POSITIVE 2.2	
TH802	1-806-882-11	THERMISTOR, POSITIVE 2.2	

*	A-4360-576-A	PANEL BOARD, COMPLETE (F242)	*****
*	A-4360-585-A	PANEL BOARD, COMPLETE (F211)	*****
< CAPACITOR >			
C301	1-126-163-11	ELECT 4.7uF 20% 50V	
C302	1-162-217-31	CERAMIC 56PF 5% 50V	
C303	1-126-163-11	ELECT 4.7uF 20% 50V	
C304	1-136-155-00	FILM 0.015uF 5% 50V	
C305	1-136-161-00	FILM 0.047uF 5% 50V	
C306	1-136-169-00	FILM 0.22uF 5% 50V	
C307	1-136-175-00	FILM 0.68uF 5% 50V	
C309	1-162-286-31	CERAMIC 220PF 10% 50V	
C310	1-136-161-00	FILM 0.047uF 5% 50V	
C311	1-126-022-11	ELECT 47uF 20% 16V	
C401	1-126-163-11	ELECT 4.7uF 20% 50V	
C402	1-162-217-31	CERAMIC 56PF 5% 50V	
C403	1-126-163-11	ELECT 4.7uF 20% 50V	
C404	1-136-155-00	FILM 0.015uF 5% 50V	
C405	1-136-161-00	FILM 0.047uF 5% 50V	
C406	1-136-169-00	FILM 0.22uF 5% 50V	
C407	1-136-175-00	FILM 0.68uF 5% 50V	
C409	1-162-286-31	CERAMIC 220PF 10% 50V	
C410	1-136-161-00	FILM 0.047uF 5% 50V	
C411	1-126-022-11	ELECT 47uF 20% 16V	
< CONNECTOR >			
CN301	1-568-443-11	SOCKET, CONNECTOR 13P	

Ref.No.	Part No.	Description	Remark
< DIODE >			
D904	8-719-301-52	LED SEL2810A-C	
D905	8-719-301-52	LED SEL2810A-C	
< IC >			
IC301	8-759-634-50	IC M5218AL	
< RESISTOR >			
R119	1-249-405-11	CARBON 100 5% 1/4W	
R219	1-249-405-11	CARBON 100 5% 1/4W	
R301	1-249-417-11	CARBON 1K 5% 1/4W	
R302	1-249-417-11	CARBON 1K 5% 1/4W	
R303	1-249-423-11	CARBON 3.3K 5% 1/4W	
R304	1-249-442-11	CARBON 510 5% 1/4W	
R305	1-249-442-11	CARBON 510 5% 1/4W	
R306	1-249-408-11	CARBON 180 5% 1/4W	
R307	1-247-903-00	CARBON 1M 5% 1/4W	
R308	1-247-903-00	CARBON 1M 5% 1/4W	
R309	1-249-422-11	CARBON 2.7K 5% 1/4W	
R310	1-247-830-11	CARBON 910 5% 1/4W	
R311	1-249-441-11	CARBON 100K 5% 1/4W	
R312	1-249-429-11	CARBON 10K 5% 1/4W	
R313	1-249-429-11	CARBON 10K 5% 1/4W	
R314	1-247-903-00	CARBON 1M 5% 1/4W	
R401	1-249-417-11	CARBON 1K 5% 1/4W	
R402	1-249-417-11	CARBON 1K 5% 1/4W	
R403	1-249-423-11	CARBON 3.3K 5% 1/4W	
R404	1-249-442-11	CARBON 510 5% 1/4W	
R405	1-249-442-11	CARBON 510 5% 1/4W	
R406	1-249-408-11	CARBON 180 5% 1/4W	
R407	1-247-903-00	CARBON 1M 5% 1/4W	
R408	1-247-903-00	CARBON 1M 5% 1/4W	
R409	1-249-422-11	CARBON 2.7K 5% 1/4W	
R410	1-247-830-11	CARBON 910 5% 1/4W	
R411	1-249-441-11	CARBON 100K 5% 1/4W	
R412	1-249-429-11	CARBON 10K 5% 1/4W	
R413	1-249-429-11	CARBON 10K 5% 1/4W	
R414	1-247-903-00	CARBON 1M 5% 1/4W	
R902	1-247-747-11	CARBON 470 5% 1/2W	
R903	1-247-749-11	CARBON 560 5% 1/2W	
R904	1-249-417-11	CARBON 1K 5% 1/4W	
< VARIABLE RESISTOR >			
RV301	1-238-513-11	RES, VAR, CARBON 150K/150K (BALANCE)	
RV302	1-241-548-11	RES, VAR, CARBON 10K (TREBLE)	
RV303	1-241-549-11	RES, VAR, CARBON 10K (BASS)	
RV304	1-241-550-11	RES, VAR, CARBON 120K/120K (VOLUME)	

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PANEL

POWER

SP SW

SP TM

TRANSFORMER

Ref.No.	Part No.	Description	Remark
		< SWITCH >	
S301	1-571-112-21	SWITCH, PUSH (1 KEY) (LOUDNESS)	
S302	1-572-642-11	SWITCH, PUSH (1 KEY) (SOURCE DIRECT)	
S304	1-571-872-11	SWITCH, PUSH (1 KEY) (TAPE/DAT MONITOR)	

*	1-639-816-14	POWER BOARD	

		< CAPACITOR >	
△C1	1-161-744-00	CERAMIC 0.01uF 400V	
		< CONNECTOR >	
* CNP2	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
* CNP3	1-564-321-00	PIN, CONNECTOR 2P	
* CNP4	1-564-321-00	PIN, CONNECTOR 2P (F211:E)	
* CNP5	1-564-687-11	PIN, CONNECTOR 3P (F211:E)	

*	1-639-811-11	SP SW BOARD	

		< SWITCH >	
S501	1-571-973-11	SWITCH, ROTARY (SPEAKERS)	

*	1-639-813-11	SP TM BOARD	

		< CAPACITOR >	
C508	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
C509	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
C510	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
C511	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
C512	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
C608	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
C609	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
C610	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
C611	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
C612	1-136-157-00	FILM 0.022uF 5% 50V (F211:G)	
		< CONNECTOR >	
* CNP502	1-564-243-00	PIN, CONNECTOR 6P	
		< RESISTOR >	
R518	1-247-727-11	CARBON 10 5% 1/2W (F211:G)	
R519	1-247-727-11	CARBON 10 5% 1/2W (F211:G)	
R618	1-247-727-11	CARBON 10 5% 1/2W (F211:G)	
R619	1-247-727-11	CARBON 10 5% 1/2W (F211:G)	

Ref.No.	Part No.	Description	Remark
		< TERMINAL >	
TM501	1-537-227-11	TERMINAL BOARD (SP) (SPEAKERS) (F211:AEP2)	
TM501	1-537-228-11	TERMINAL BOARD (SP) (SPEAKERS) (F211:G)	
TM501	1-537-235-11	TERMINAL BOARD (SP) (SPEAKERS) (F211:AEP1, UK, E, AUS/F242:UK)	

*	1-639-818-11	TRANSFORMER BOARD	

		< CONNECTOR >	
* CNP802	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	

		MISCELLANEOUS	

7	1-572-267-41	SWITCH, PUSH (AC POWER) (1 KEY)	
11	1-590-036-11	WIRE, FLAT TYPE (13 CORE)	
21	1-572-803-11	SWITCH, ROTARY SLIDE (INPUT SELECTION)	
64	1-569-007-11	ADAPTER, CONVERSION 2P (F211:E)	
65	1-558-943-41	CORD, POWER (F211:E)	
66	1-575-651-21	CORD, POWER (F211:AEP, G)	
67	1-696-845-11	CORD, POWER (F211:AUS)	
68	1-696-586-11	CORD, POWER (F211:UK/F242)	
△F1	1-532-203-00	FUSE (T2.0AL) (F242)	
△F1	1-532-259-00	FUSE (T1.6AL) (F211)	
△F2	1-532-259-00	FUSE (T1.6AL) (F211)	
△S2	1-570-307-11	SELECTOR, POWER VOLTAGE (VOLTAGE) (F211:E)	
△T1	1-423-623-11	TRANSFORMER, POWER (F211:G)	
△T1	1-423-624-11	TRANSFORMER, POWER (F242)	
△T1	1-423-628-11	TRANSFORMER, POWER (F211:AEP)	
△T1	1-423-629-11	TRANSFORMER, POWER (F211:UK, AUS)	
△T1	1-423-650-11	TRANSFORMER, POWER (F211:E)	

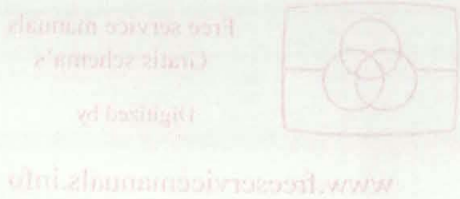
		ACCESSORIES & PACKING MATERIALS	

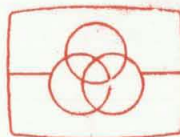
	3-756-898-11	MANUAL, INSTRUCTION (F211:AEP, UK, E, AUS/F242) (ENGLISH, FRENCH, SPANISH, PORTUGUESE, ITALIAN)	
	3-756-898-41	MANUAL, INSTRUCTION (F211:AEP) (GERMAN, DUTCH, SWEDISH, DANISH, FINNISH)	
	3-756-898-51	MANUAL, INSTRUCTION (GERMAN) (F211:G)	
*	4-945-810-02	CUSHION (LEFT)	
*	4-945-811-01	CUSHION (RIGHT)	
*	4-958-314-01	INDIVIDUAL CARTON (F211)	
*	4-958-315-01	INDIVIDUAL CARTON (F242)	

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

Ref.No.	Part No.	Description	Remark

***** HARDWARE LIST *****			
#1	7-621-849-00	SCREW (BV/RING)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#4	7-682-548-04	SCREW +BVTT 3X8 (S)	
#5	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	(F211:G/F242)
#6	7-682-560-04	SCREW +BVTT 4X6 (S)	





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