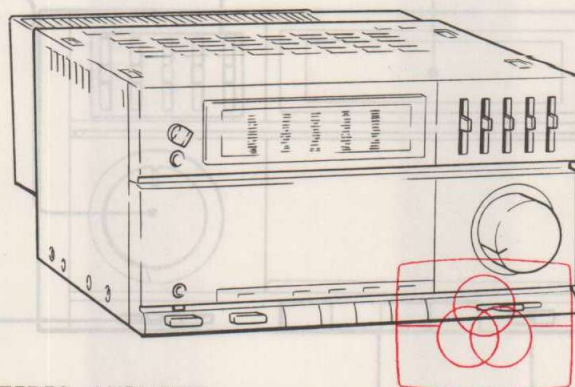


TA-707/707M

SERVICE MANUAL



E Model
TA-707
AEP Model
TA-707M

Free service manuals
Gratis schema's

Digitized by

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- TA-707 is the INTEGRATED STEREO AMPLIFIER in FH-707R.
- TA-707M is the INTEGRATED STEREO AMPLIFIER in MHC-2000.

SPECIFICATIONS

TA-707:
Peak music power output
340W (6ohms)

TA-707M:
Continuous RMS output
30W+30W
(6ohms, at 1kHz, 5% THD)

Inputs

Input jacks	Jack type	Sensitivity	Impedance
PHONO	Phono	2.5 mV	50 kohms
CD/AUX	Phono	450 mV	50 kohms
MIC	Stereo mini	1 mV	600 ohms

Outputs

HEADPHONES (stereo phone jack)	Accepts headphones of 8 ohms or more
SPEAKER	Accepts speakers of 6 to 16 ohms

General

Power requirements

E model: 120, 220 or 240 V AC,
adjustable, 50/60 Hz
AEP model: 220V AC, 50Hz

Power consumption
85W

Dimensions

TA-707: Approx. 220x120x285 mm (w/h/d)
(8³/₄ x 4³/₄ x 11¹/₄ inches)

TA-707M: Approx. 245x120x285 mm (w/h/d)
(9³/₄ x 4³/₄ x 11¹/₄ inches)

incl. projecting parts and controls

Weight Approx. 4.5kg (10 lb) net

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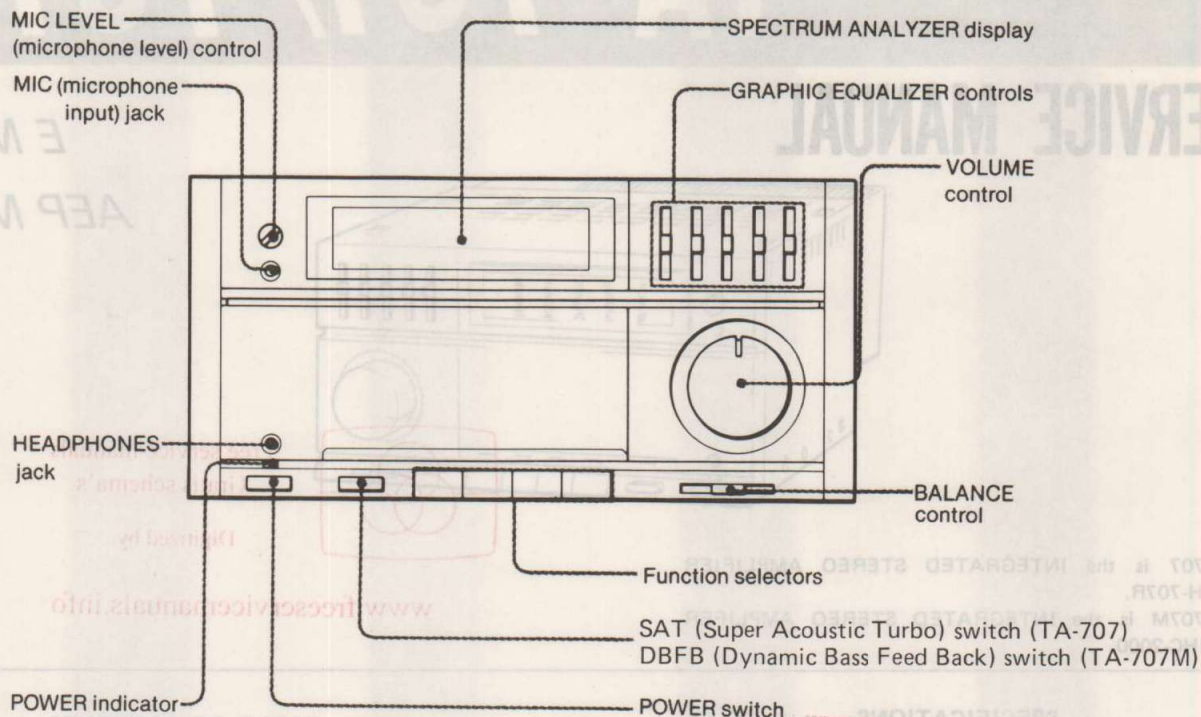
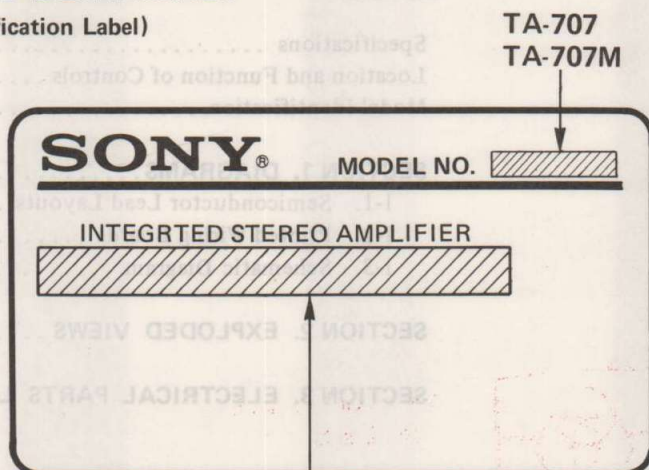
Section	Title	Page
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Model Identification		2
SECTION 1. DIAGRAMS		3
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MICROFILM

INTEGRATED STEREO AMPLIFIER
SONY®

LOCATION AND FUNCTION OF CONTROLS

MODEL IDENTIFICATION
(Specification Label)

E, Saudi Arabia model: AC: 120/220/240V ~ 50/60Hz 85W

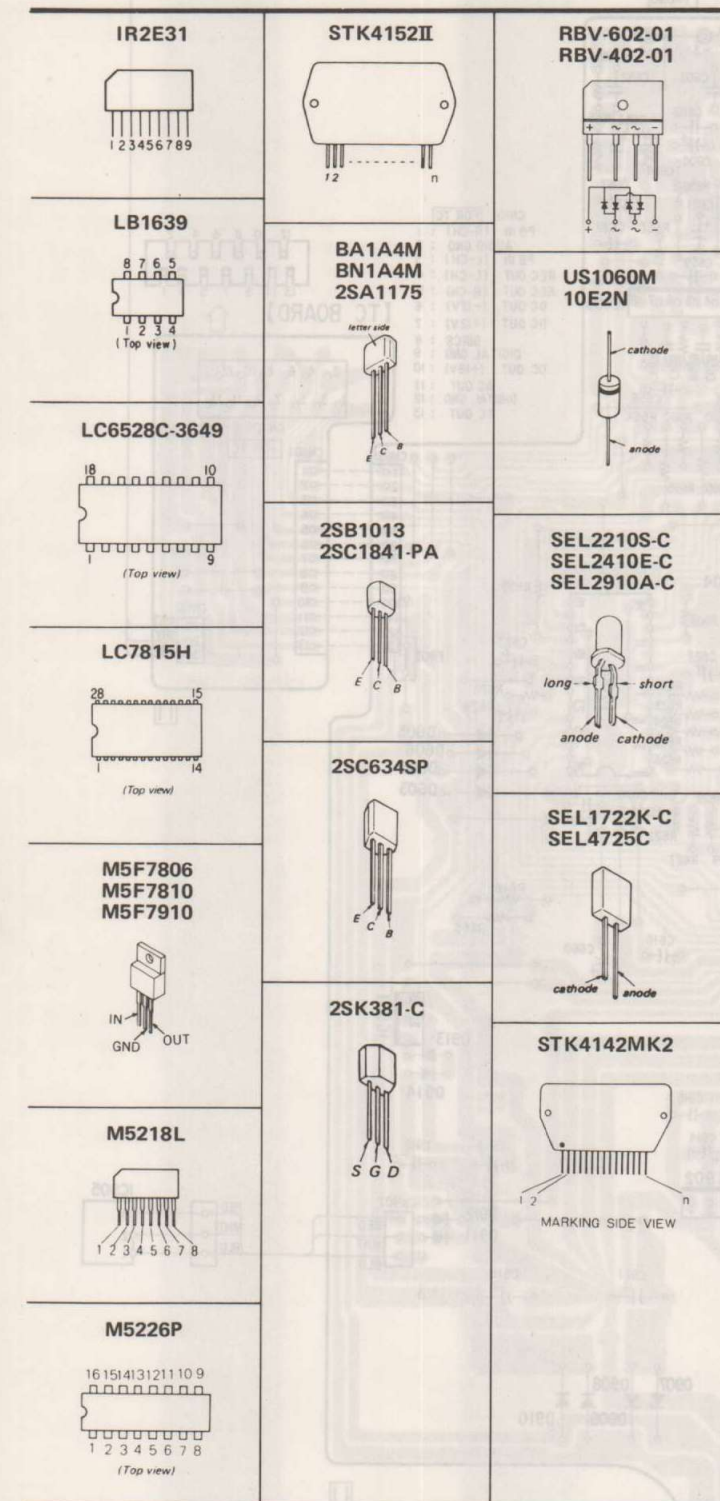
AEP model: AC: 220V 50/60Hz 85W

West Germany model: AC: 220V 50Hz 85W

SAFETY-RELATED COMPONENT WARNING!!

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

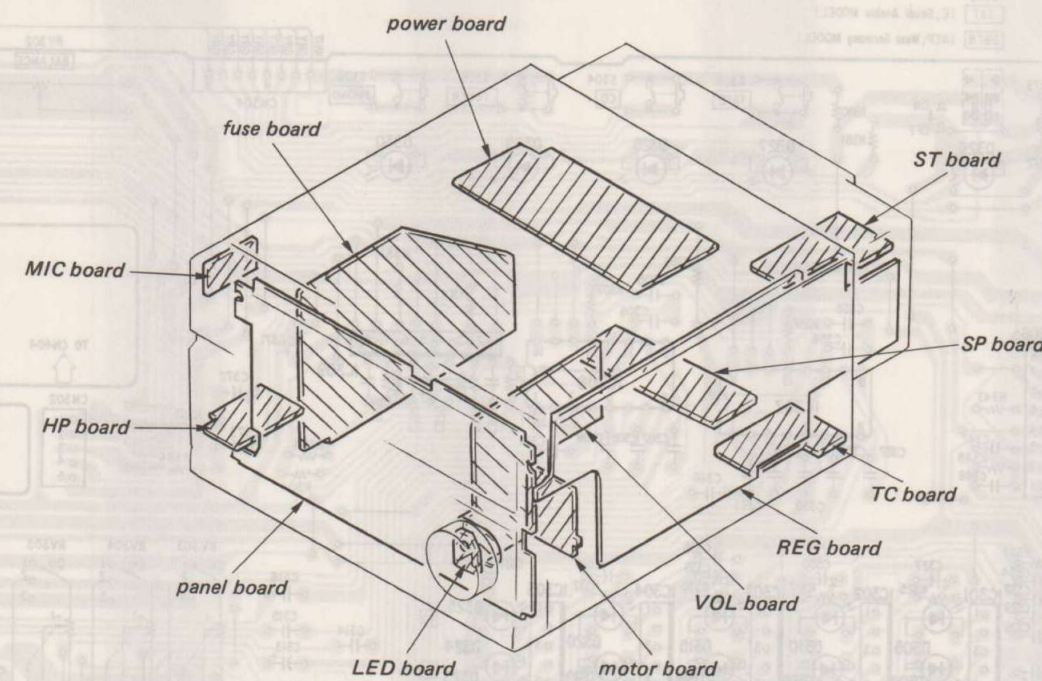
1-1. Semiconductor Lead Layouts



• SEMICONDUCTOR LOCATION

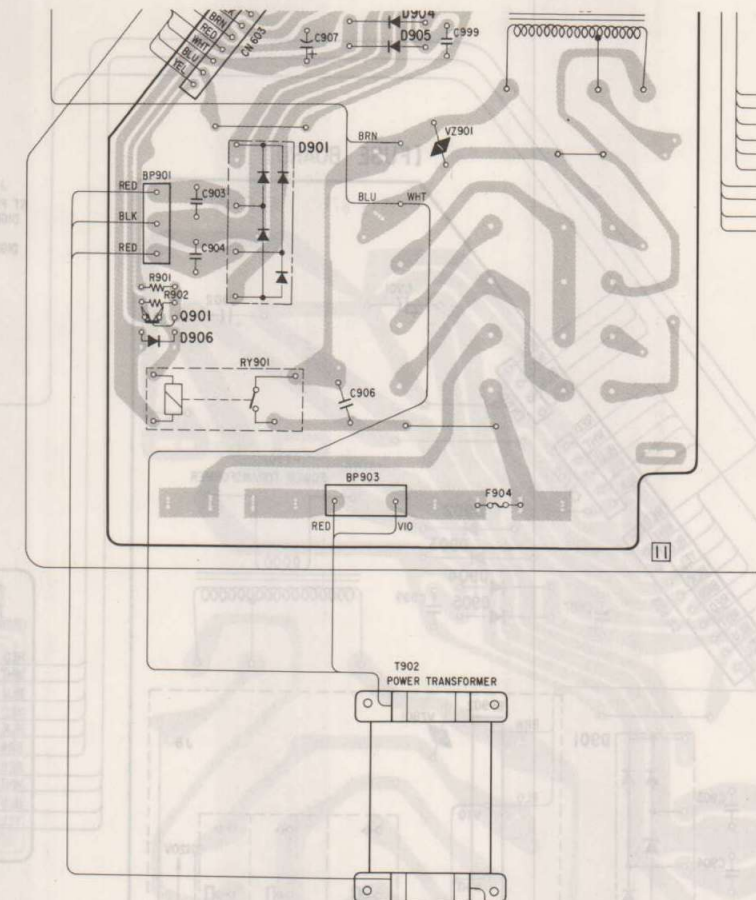
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	J-10	D326	G-10	D905	D-3	IC603	C-20
D302	J-10	D327	G-11	D906	F-2	IC701	D-8
D303	J-10	D328	G-12	D907	I-20	IC901	G-22
D304	J-10	D329	G-12	D908	I-20	IC902	H-20
D305	J-10	D330	G-13	D909	I-21	IC905	H-23
D306	J-11	D331	G-8	D910	I-21		
D307	J-11	D332	H-9	D911	H-21	Q151	B-18
D308	J-11	D401	J-17	D912	H-21	Q201	B-7
D309	J-11	D601	D-18	D913	G-21	Q301	G-9
D310	J-11	D602	D-18	D914	G-21	Q401	E-14
D311	J-11	D603	F-21			Q402	E-14
D312	J-11	D604	D-20	IC301	J-10	Q403	C-15
D313	J-11	D605	E-21	IC302	J-10	Q404	C-15
D314	J-11	D606	E-21	IC303	J-11	Q405	E-15
D315	J-11	D607	E-21	IC304	J-12	Q601	B-19
D316	J-12	D701	D-6	IC305	J-12	Q701	D-6
D317	J-12	D702	D-10	IC306	H-9	Q702	D-7
D318	J-12	D703	E-9	IC307	H-11	Q703	D-7
D319	J-12	D704	E-10	IC308	H-12	Q704	E-10
D320	J-12	D705	E-10	IC309	H-13	Q705	E-10
D321	J-12	D706	E-8	IC401	E-15	Q901	F-2
D322	J-12	D901	E-2	IC402	C-15		
D323	J-12	D902	D-3	IC403	D-14		
D324	J-12	D903	D-3	IC601	E-19		
D325	J-12	D904	D-3	IC602	E-21		

• CIRCUIT BOARD LOCATION

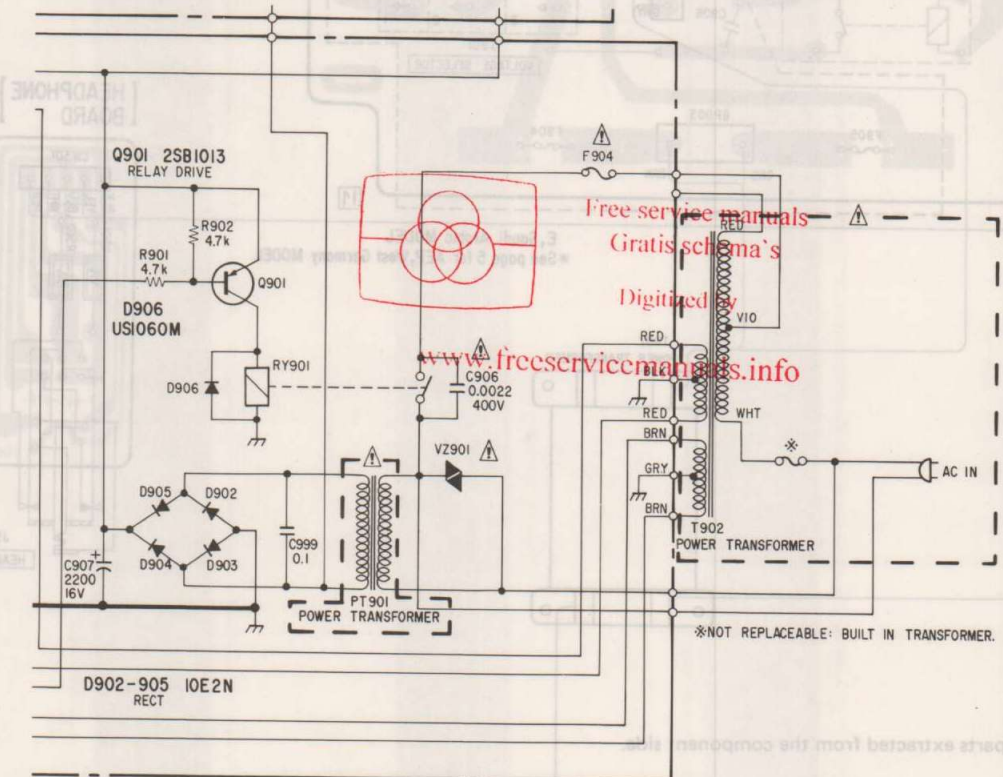


— TA-707M-FUSE BOARD —

• PRINTED WIRING BOARDS



• SCHEMATIC DIAGRAM







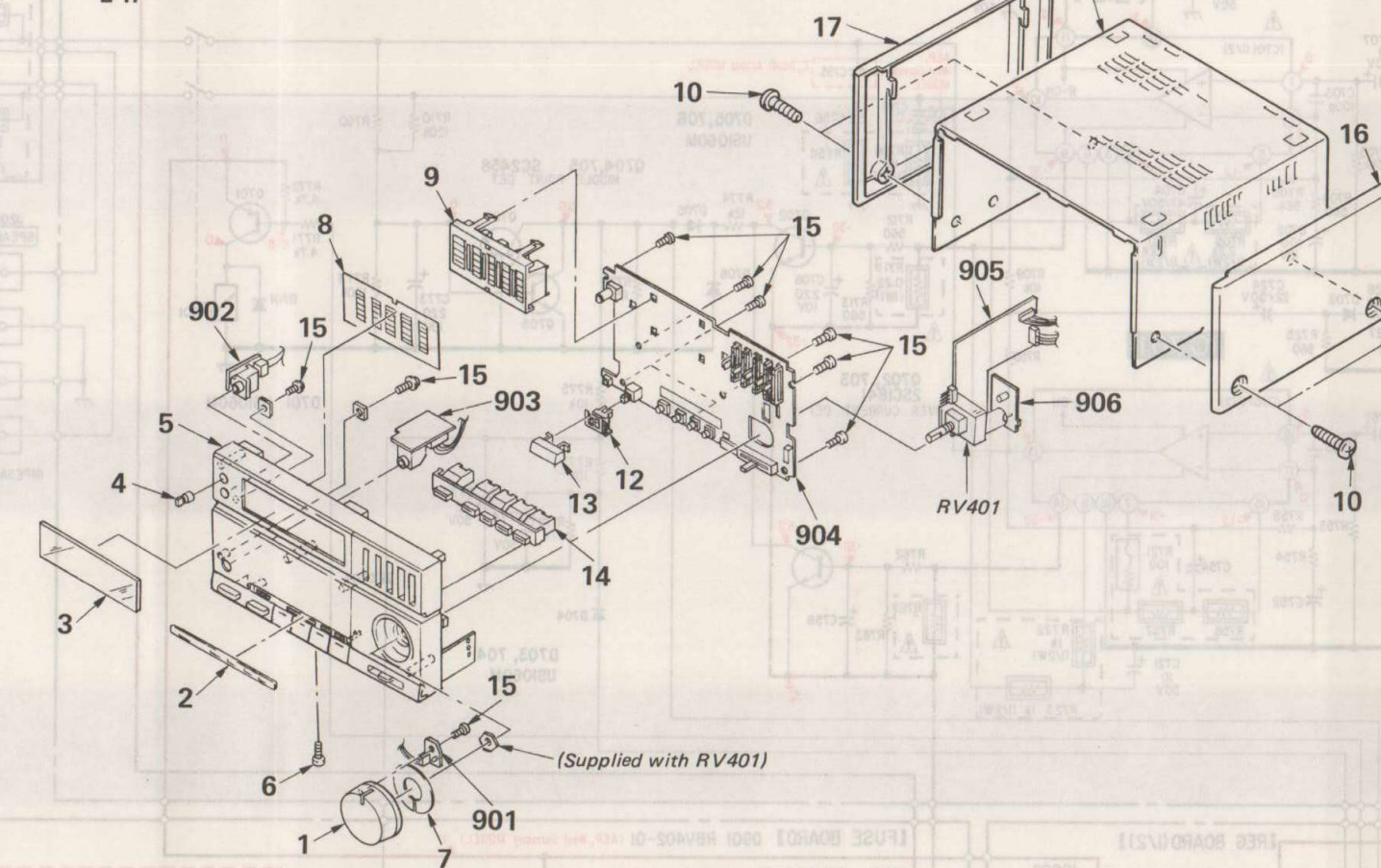
Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

SECTION 2 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

2-1.



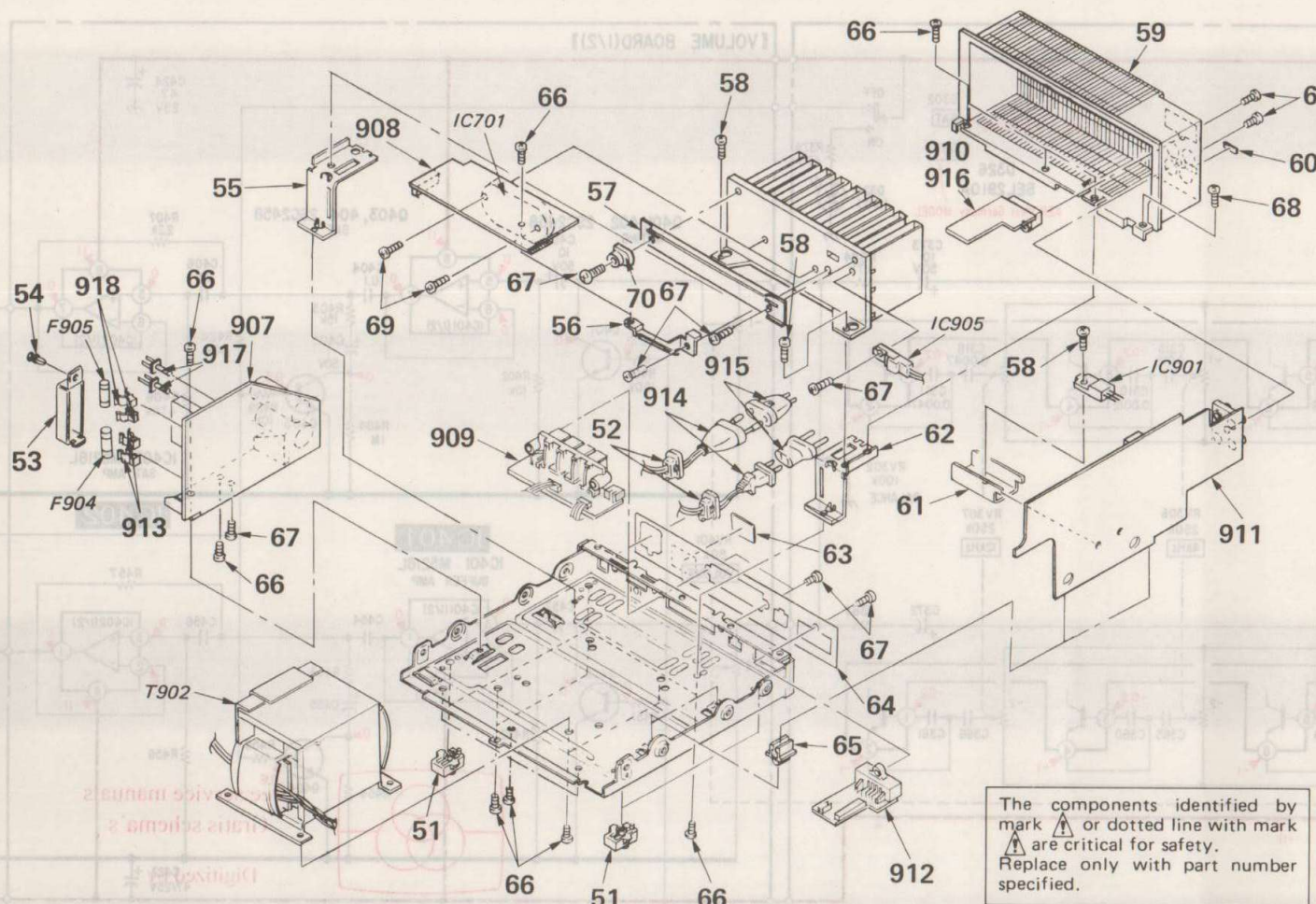
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	4-922-790-01	KNOB (VOLUME)		13	4-914-388-21	(E,Saudi Arabia)....BUTTON (SAT)	
2	4-920-880-01	PLATE (F), INDICATION		14	4-914-388-31	(AEP,West Germany)....BUTTON (DBFB)	
3	4-922-758-01	PLATE (S.A), ORNAMENTAL		15	4-920-882-01	HOUSE (F), LIGHTING	
4	4-920-877-02	KNOB (VOL)(MIC LEVEL)		16	7-685-534-19	SCREW +BVT 2.6X8 TYPE2 N-S	
5	X-4919-646-1	(TA-707)....PANEL ASSY		17	4-925-524-01	(TA-707M)....PLATE (B-R), SIDE	
	X-4919-647-1	(TA-707M)....PANEL ASSY			4-925-525-01	(TA-707M)....PLATE (B-L), SIDE	
6	7-685-870-01	SCREW +BVT 3X5 (S)		901	*1-625-875-11	PC BOARD, LED	
7	4-925-554-01	SPACER		902	*1-625-872-11	PC BOARD, MIC	
8	4-922-757-01	PLATE (S.A), INDICATION		903	*1-625-878-11	PC BOARD, HP	
9	*4-920-881-01	HOUSE (S.A), LIGHTING					
10	3-704-366-01	(TA-707)....SCREW (CASE)(M3X8)		904	*A-4375-352-A	MOUNTED PCB, PANEL	
	4-886-821-51	(TA-707M)....SCREW, CASE, (M3X14)		905	*1-625-873-11	PC BOARD, VOL	
				906	*1-625-874-11	PC BOARD, MOTOR	
11	4-920-118-01	CASE					
12	*4-920-879-01	JOINT (D)		RV401	1-238-061-11	RES, VAR CARBON 50K/50K (VOLUME)	

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

Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts Color

2-2.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	X-4902-937-1	FOOT ASSY, RUBBER		908	*A-4388-708-A	(E,Saudi Arabia)....MOUNTED PCB, POWER	
52	*3-703-244-00	(Saudi Arabia,AEP,West Germany) ...BUSHING (2104), CORD			*A-4388-728-A	(AEP,West Germany)....MOUNTED PCB, POWER	
	*3-703-571-00	(E).....BUSHING (S)(4516), CORD		909	*1-625-877-11	PC BOARD, SP	
53	*4-922-787-01	COVER (INSULATING)		910	*A-4410-662-A	MOUNTED PCB, ST	916
54	3-531-576-01	RIVET		911	*A-4394-447-A	(E,Saudi Arabia,AEP)....MUNTED PCB, REG	
55	*4-914-393-01	BRACKET (LEFT), HEAT SINK			*A-4394-462-A	(West Germany).....MUNTED PCB, REG	
56	*4-910-064-01	BRACKET (H), PC BOARD		912	*1-625-869-11	PC BOARD, TC	
57	*4-920-112-01	PLATE, BLOCK		913	*1-533-183-11	HOLDER, FUSE	
58	7-682-548-04	SCREW +BVT 3X8 (S)					
59	*4-920-116-11	PLATE, JACK		914	*1-551-188-XX	(E).....CORD, POWER	
60	*4-920-876-01	LABEL (PHONE)			*1-555-750-00	(Saudi Arabia,AEP,West Germany) ...CORD, POWER	
61	*4-880-403-11	HEAT SINK		915	1-506-409-00	(Saudi Arabia)....ADAPTOR, CONVERSION	
62	*4-914-394-01	BRACKET (RIGHT), HEAT SINK			1-526-565-00	(E3).....AC PLUG ADAPTOR	
63	*4-922-723-01	(E,Saudi Arabia)....LABEL, MODEL NUMBER		916	*1-625-870-11	PC BOARD, ST	
	*4-922-731-01	(AEP).....LABEL, MODEL NUMBER		917	*1-535-476-11	(AEP,West Germany)....TERMINAL	
	*4-922-731-11	(AEP).....LABEL, MODEL NUMBER					
	*4-922-732-01	(West Germany)....LABEL, MODEL NUMBER		BP901	*1-535-116-00	TERMINAL	
				BP902	*1-535-142-00	(E,Saudi Arabia)....BASE POST 22mm 5P	
				BP903	*1-535-139-00	BASE POST 22mm 2P	
				BP904	*1-508-830-12	H TYPE BASE POST	
64	*4-920-885-01	COVER, REAR		C152	1-101-005-00	CERAMIC 0.022MF	50V
65	*3-642-310-00	HOLDER, CIRCUIT BOARD		C301	1-162-282-31	CERAMIC 100PF	10% 50V
66	7-682-147-01	SCREW +BVT 3X6 (S)		C302	1-162-282-31	CERAMIC 100PF	10% 50V
67	7-685-647-79	SCREW +BVT 3X10 TYPE2 N-S		C303	1-162-282-31	CERAMIC 100PF	10% 50V
68	7-685-648-79	SCREW +BVT 3X12 TYPE2 IT-3		C305	1-162-282-31	CERAMIC 100PF	10% 50V
69	7-685-650-79	SCREW +BVT 3X16 TYPE2 IT-3		C306	1-162-215-31	CERAMIC 47PF	5% 50V
70	*4-925-538-01	BUSHING		C307	1-136-163-00	FILM 0.068MF	5% 50V
907	*1-625-879-11	PC BOARD, FUSE		C308	1-136-156-00	FILM 0.018MF	5% 50V
				C309	1-130-480-00	MYLAR 0.0056MF	5% 50V
				C310	1-130-472-00	MYLAR 0.0012MF	5% 50V
				C311	1-130-467-00	MYLAR 470PF	5% 50V
				C312	1-124-902-00	ELECT 0.47MF	20% 50V
				C313	1-124-463-00	ELECT 0.1MF	20% 50V
				C314	1-136-162-00	FILM 0.056MF	5% 50V
				C315	1-136-155-00	FILM 0.015MF	5% 50V
				C316	1-130-479-00	MYLAR 0.0047MF	5% 50V
				C321	1-162-215-31	CERAMIC 47PF	5% 50V
				C322	1-124-463-00	ELECT 0.1MF	20% 50V
				C323	1-161-494-00	CERAMIC 0.022MF	25V
				IC701	A 8-749-900-96	(AEP,West Germany)....IC STK4142MK2	
				IC701A	A 8-749-941-52	(E,Saudi Arabia)....IC STK415211	
				IC901	8-759-604-50	IC MSF7910	
				IC905	8-759-604-32	IC MSF7810	
				T902	A 1-449-195-11	(E,Saudi Arabia)....TRANSFORMER, POWER	
				T902	A 1-449-248-11	(AEP,West Germany)....TRANSFORMER, POWER	

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

SECTION 3 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*1-625-875-11	PC BOARD, LED	C324	1-124-927-11	ELECT 4.7MF
902	*1-625-872-11	PC BOARD, MIC	C325	1-161-494-00	CERAMIC 0.022MF
903	*1-625-878-11	PC BOARD, HP	C326	1-161-377-00	CERAMIC 0.0047MF
904	*A-4375-352-A	MOUNTED PCB, PANEL	C327	1-124-927-11	ELECT 4.7MF
905	*1-625-873-11	PC BOARD, VOL	C328	1-161-379-00	CERAMIC 0.01MF
906	*1-625-874-11	PC BOARD, MOTOR	C329	1-161-375-00	CERAMIC 0.0022MF
907	*1-625-879-11	PC BOARD, FUSE			
908	*A-4388-708-A	(E,Saudi Arabia)....MOUNTED PCB, POWER	C330	1-124-927-11	ELECT 4.7MF
	*A-4388-728-A	(AEP,West Germany)....MOUNTED PCB, POWER	C331	1-161-375-00	CERAMIC 0.0022MF
			C332	1-162-290-31	CERAMIC 470PF
909	*1-625-877-11	PC BOARD, SP	C333	1-124-927-11	ELECT 4.7MF
910	*A-4410-662-A	MOUNTED PCB, ST	C334	1-162-294-31	CERAMIC 0.001MF
911	*A-4394-447-A	(E,Saudi Arabia,AEP)....MUNTED PCB, REG	C335	1-162-286-31	CERAMIC 220PF
	*A-4394-462-A	(West Germany).....MUNTED PCB, REG			
912	*1-625-869-11	PC BOARD, TC	C336	1-124-927-11	ELECT 4.7MF
913	*1-533-183-11	HOLDER, FUSE	C337	1-124-477-11	ELECT 47MF
			C338	1-124-477-11	ELECT 47MF
914	*1-551-188-XX	(E).....CORD, POWER	C340	1-161-379-00	CERAMIC 0.01MF
	*1-555-750-00	(Saudi Arabia,AEP,West Germany) ...CORD, POWER	C341	1-161-379-00	CERAMIC 0.01MF
			C342	1-162-294-31	CERAMIC 0.001MF
915	1-506-409-00	(Saudi Arabia)....ADAPTOR, CONVERSION	C343	1-124-463-00	ELECT 0.1MF
	1-526-565-00	(E3).....AC PLUG ADAPTOR	C344	1-124-477-11	ELECT 47MF
			C345	1-124-902-00	ELECT 0.001MF
916	*1-625-870-11	PC BOARD, ST	C346	1-124-902-00	ELECT 0.47MF
917	*1-535-476-11	(AEP,West Germany)....TERMINAL	C347	1-162-288-31	CERAMIC 330PF
			C348	1-161-379-00	CERAMIC 0.01MF
BP901	*1-535-116-00	TERMINAL			
BP902	*1-535-142-00	(E,Saudi Arabia)....BASE POST 22mm 5P	C349	1-124-477-11	ELECT 47MF
BP903	*1-535-139-00	BASE POST 22mm 2P	C351	1-162-282-31	CERAMIC 100PF
BP904	*1-508-830-12	H TYPE BASE POST	C352	1-162-282-31	CERAMIC 100PF
C152	1-101-005-00	CERAMIC 0.022MF	C355	1-162-282-31	CERAMIC 100PF
C301	1-162-282-31	CERAMIC 100PF	C356	1-162-215-31	CERAMIC 47PF
C302	1-162-282-31	CERAMIC 100PF	C357	1-136-163-00	FILM 0.068MF
C305	1-162-282-31	CERAMIC 100PF			
C306	1-162-215-31	CERAMIC 47PF	C358	1-136-156-00	FILM 0.018MF
C307	1-136-163-00	FILM 0.068MF	C359	1-130-480-00	MYLAR 0.0056MF
			C360	1-130-472-00	MYLAR 0.0012MF
C308	1-136-156-00	FILM 0.018MF			
C309	1-130-480-00	MYLAR 0.0056MF	C361	1-130-467-00	MYLAR 470PF
C310	1-130-472-00	MYLAR 0.0012MF	C362	1-124-902-00	ELECT 0.47MF
			C363	1-124-463-00	ELECT 0.1MF
C311	1-130-467-00	MYLAR 470PF			
C312	1-124-902-00	ELECT 0.47MF	C364	1-136-162-00	FILM 0.056MF
C313	1-124-463-00	ELECT 0.1MF	C365	1-136-155-00	FILM 0.015MF
			C366	1-130-479-00	MYLAR 0.0047MF
C314	1-136-162-00	FILM 0.056MF			
C315	1-136-155-00	FILM 0.015MF	C370	1-124-477-11	ELECT 47MF
C316	1-130-479-00	MYLAR 0.0047MF	C371	1-124-477-11	ELECT 47MF
			C372	1-123-875-11	ELECT 10MF
C321	1-162-215-31	CERAMIC 47PF			
C322	1-124-463-00	ELECT 0.1MF	C373	1-123-875-11	ELECT 10MF
C323	1-161-494-00	CERAMIC 0.022MF	C402	1-123-875-11	ELECT 10MF
			C404	1-136-165-00	FILM 0.1MF

CAPACITORS:
MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA.... μ A.... UPA.... μ PA....
UPC.... μ PC, UPD.... μ PD....

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

Ref.No.	Part No.	Description			
C405	1-124-499-11	ELECT	1MF	2%	50V
C406	1-136-165-00	FILM	0.1MF	5%	50V
C423	1-124-477-11	ELECT	47MF	20%	25V
C424	1-124-477-11	ELECT	47MF	20%	25V
C425	1-124-443-00	ELECT	100MF	20%	10V
C426	1-124-443-00	ELECT	100MF	20%	10V
C427	1-124-443-00	ELECT	100MF	20%	10V
C452	1-123-875-11	ELECT	10MF	20%	50V
C454	1-136-165-00	FILM	0.1MF	5%	50V
C455	1-124-499-11	ELECT	1MF	20%	50V
C456	1-136-165-00	FILM	0.1MF	5%	50V
C601	1-162-282-31	CERAMIC	100PF	10%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-162-288-31	CERAMIC	330PF	10%	50V
C604	1-123-875-11	ELECT	10MF	20%	50V
C605	1-130-473-00	(E,Saudi Arabia,AEP)	MYLAR	0.0015MF	5% 50V
C605	1-130-485-00	(West Garmany)...MYLAR	0.015MF	5% 50V	
C606	1-130-480-00	MYLAR	0.0056MF	5%	50V
C607	1-124-925-11	ELECT	2.2MF	20%	50V
C608	1-123-875-11	ELECT	10MF	20%	50V
C609	1-162-286-31	CERAMIC	220PF	10%	50V
C610	1-124-499-11	ELECT	1MF	20%	50V
C621	1-124-477-11	ELECT	47MF	20%	25V
C622	1-124-477-11	ELECT	47MF	20%	25V
C623	1-124-477-11	ELECT	47MF	20%	25V
C624	1-124-925-11	ELECT	2.2MF	20%	50V
C625	1-124-477-11	ELECT	47MF	20%	25V
C626	1-124-499-11	ELECT	1MF	20%	50V
C627	1-124-902-00	ELECT	0.47MF	20%	50V
C651	1-162-282-31	CERAMIC	100PF	10%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-162-288-31	CERAMIC	330PF	10%	50V
C654	1-123-875-11	ELECT	10MF	20%	50V
C655	1-130-473-00	(E,Saudi Arabia,AEP)	MYLAR	0.0015MF	5% 50V
C655	1-130-485-00	(West Garmany)...MYLAR	0.015MF	5% 50V	
C656	1-130-480-00	MYLAR	0.0056MF	5%	50V
C657	1-124-925-11	ELECT	2.2MF	20%	50V
C658	1-123-875-11	ELECT	10MF	20%	50V
C659	1-162-286-31	CERAMIC	220PF	10%	50V
C660	1-124-499-11	ELECT	1MF	20%	50V
C671	1-124-499-11	ELECT	1MF	20%	50V
C672	1-123-875-11	ELECT	10MF	20%	50V
C673	1-161-379-00	CERAMIC	0.01MF	30%	16V
C674	1-123-875-11	ELECT	10MF	20%	50V
C675	1-124-477-11	ELECT	47MF	20%	25V
C701	1-162-288-31	CERAMIC	330PF	10%	50V
C702	1-124-443-00	ELECT	100MF	20%	10V
C703	1-162-282-31	CERAMIC	100PF	10%	50V
C704	1-124-910-11	ELECT	47MF	20%	50V
C705	1-136-165-00	FILM	0.1MF	5%	50V
C706	1-136-165-00	(AEP,West Germany)	FILM	0.1MF	5% 50V
C707	1-124-499-11	ELECT	1MF	20%	50V
C708	1-124-444-00	ELECT	220MF	20%	10V
C721	1-123-875-11	ELECT	10MF	20%	50V
C722	1-124-122-11	ELECT	100MF	20%	50V

Ref.No.	Part No.	Description
D313	8-719-310-63	DIODE SEL4725C
D314	8-719-310-63	DIODE SEL4725C
D315	8-719-310-63	DIODE SEL4725C
D316	8-719-310-63	DIODE SEL4725C
D317	8-719-310-63	DIODE SEL4725C
D318	8-719-310-63	DIODE SEL4725C
D319	8-719-310-63	DIODE SEL4725C
D320	8-719-310-63	DIODE SEL4725C
D321	8-719-310-63	DIODE SEL4725C
D322	8-719-310-63	DIODE SEL4725C
D323	8-719-310-63	DIODE SEL4725C
D324	8-719-310-63	DIODE SEL4725C
D325	8-719-310-63	DIODE SEL4725C
D326	8-719-301-60	DIODE SEL2910A-C
D327	8-719-310-81	DIODE SEL1722K-C
D328	8-719-310-81	DIODE SEL1722K-C
D329	8-719-310-81	DIODE SEL1722K-C
D330	8-719-310-81	DIODE SEL1722K-C
D331	8-719-301-38	DIODE SEL2210S-C
D332	8-719-000-26	DIODE US1060M
D401	8-719-301-43	DIODE SEL2410E-C
D601	8-719-000-26	DIODE US1060M
D602	8-719-000-26	DIODE US1060M
D603	8-719-000-26	DIODE US1060M
D604	8-719-000-26	DIODE US1060M
D605	8-719-000-26	DIODE US1060M
D606	8-719-000-26	DIODE US1060M
D607	8-719-000-26	DIODE US1060M
D701	8-719-000-26	DIODE US1060M
D702	8-719-000-26	DIODE US1060M
D703	8-719-000-26	DIODE US1060M
D704	8-719-000-26	DIODE US1060M
D705	8-719-000-26	DIODE US1060M
D706	8-719-000-26	DIODE US1060M
D901	8-719-302-36	(AEP,West Germany)...DIODE RBV-402-01
D901	8-719-302-38	(E,Saudi Arabia).....DIODE RBV-602-01
D902	8-719-200-77	DIODE 10E2N
D903	8-719-200-77	DIODE 10E2N
D904	8-719-200-77	DIODE 10E2N
D905	8-719-200-77	DIODE 10E2N
D906	8-719-000-26	DIODE US1060M
D907	8-719-200-77	DIODE 10E2N
D908	8-719-200-77	DIODE 10E2N
D909	8-719-200-77	DIODE 10E2N
D910	8-719-200-77	DIODE 10E2N
D911	8-719-000-26	DIODE US1060M
D912	8-719-000-26	DIODE US1060M
D913	8-719-000-26	DIODE US1060M
D914	8-719-000-26	DIODE US1060M
F901	1-532-846-21	LINK, IC
F902	1-532-846-21	LINK, IC
F903	1-532-841-21	LINK, IC
F904	△1-532-078-00	(AEP,West Germany)...FUSE, TIME-LAG 1A
F904	△1-532-285-00	(E,Saudi Arabia)...FUSE, TIME-LAG 1.25A
F905	△1-532-285-00	(E,Saudi Arabia)...FUSE, TIME-LAG 1.25A

Ref.No.	Part No.	Description
IC301	8-759-913-80	IC IR2E31
IC302	8-759-913-80	IC IR2E31
IC303	8-759-913-80	IC IR2E31
IC304	8-759-913-80	IC IR2E31
IC305	8-759-913-80	IC IR2E31
IC306	8-759-600-02	IC M5218L
IC307	8-759-602-04	IC M5226P
IC308	8-759-602-04	IC M5226P
IC309	8-759-600-02	IC M5218L
IC401	8-759-600-02	IC M5218L
IC402	8-759-600-02	IC M5218L
IC403	8-759-820-62	IC LB1639
IC601	8-759-820-50	IC LC6528C-3649
IC602	8-759-800-33	IC LC7815H
IC603	8-759-600-02	IC M5218L
IC701	△8-749-900-96	(AEP,West Germany)...IC STK4142MK2
IC701	△8-749-941-52	(E,Saudi Arabia).....IC STK415211
IC901	8-759-604-50	IC M5F7910
IC902	8-759-604-84	IC M5F7806
IC905	8-759-604-32	IC M5F7810
J8	*1-535-149-11	(E,Saudi Arabia)...WIRE (30mm)
J201	1-564-980-11	PIN, CONNECTOR 4P
J202	1-536-705-00	TERMINAL BOARD (SP)
J501	1-562-837-11	JACK (HEADPHONES)
J551	1-562-981-21	JACK (MIC)
J601	1-507-908-11	JACK, PIN 4P
L601	1-410-564-21	INDUCTOR 100UH
PT901	△1-449-194-11	TRANSFORMER, POWER
Q151	8-729-115-15	TRANSISTOR BN1A4M
Q201	8-729-600-94	TRANSISTOR 2SK381-C
Q301	8-729-117-54	TRANSISTOR 2SA1175
Q401	8-729-600-27	TRANSISTOR 2SC634SP
Q402	8-729-600-27	TRANSISTOR 2SC634SP
Q403	8-729-600-27	TRANSISTOR 2SC634SP
Q404	8-729-600-27	TRANSISTOR 2SC634SP
Q405	8-729-115-79	TRANSISTOR BA1A4M
Q601	8-729-600-27	TRANSISTOR 2SC634SP
Q701	8-729-801-83	TRANSISTOR 2SB1013
Q702	8-729-108-05	TRANSISTOR 2SC1841-PA
Q703	8-729-108-05	TRANSISTOR 2SC1841-PA
Q704	8-729-600-27	TRANSISTOR 2SC634SP
Q705	8-729-600-27	TRANSISTOR 2SC634SP
Q901	8-729-801-83	TRANSISTOR 2SB1013
R151	1-249-425-11	CARBON 4.7K 5% 1/4W
R152	1-249-429-11	CARBON 10K 5% 1/4W
R201	1-249-429-11	CARBON 10K 5% 1/4W
R202	1-249-433-11	CARBON 22K 5% 1/4W
R203	1-249-417-11	CARBON 1K 5% 1/4W
R301	1-249-427-11	CARBON 6.8K 5% 1/4W
R302	1-249-435-11	CARBON 33K 5% 1/4W
R303	1-249-425-11	CARBON 4.7K 5% 1/4W
R304	1-249-426-11	CARBON 5.6K 5% 1/4W
R307	1-249-438-11	CARBON 56K 5% 1/4W
R321	1-249-430-11	CARBON 12K 5% 1/4W
R322	1-249-430-11	CARBON 12K 5% 1/4W

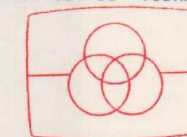
Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description			
R323	1-249-441-11	CARBON	100K	5%	1/4W
R324	1-249-431-11	CARBON	15K	5%	1/4W
R325	1-247-881-00	CARBON	120K	5%	1/4W
R326	1-249-430-11	CARBON	12K	5%	1/4W
R327	1-249-441-11	CARBON	100K	5%	1/4W
R328	1-249-431-11	CARBON	15K	5%	1/4W
R330	1-247-881-00	CARBON	120K	5%	1/4W
R331	1-249-429-11	CARBON	10K	5%	1/4W
R332	1-249-441-11	CARBON	100K	5%	1/4W
R341	1-249-429-11	CARBON	10K	5%	1/4W
R342	1-249-418-11	CARBON	1.2K	5%	1/4W
R343	1-249-429-11	CARBON	10K	5%	1/4W
R344	1-249-399-11	CARBON	33	5%	1/4W
R345	1-249-423-11	CARBON	3.3K	5%	1/4W
R348	1-249-429-11	CARBON	10K	5%	1/4W
R351	1-249-427-11	CARBON	6.8K	5%	1/4W
R352	1-249-435-11	CARBON	33K	5%	1/4W
R353	1-249-425-11	CARBON	4.7K	5%	1/4W
R354	1-249-426-11	CARBON	5.6K	5%	1/4W
R357	1-249-438-11	CARBON	56K	5%	1/4W
R372	1-249-428-11	CARBON	8.2K	5%	1/4W
R373	1-249-426-11	CARBON	5.6K	5%	1/4W
R379	1-249-413-11	CARBON	470	5%	1/4W
R380	1-249-414-11	CARBON	560	5%	1/4W
R381	1-249-413-11	CARBON	470	5%	1/4W
R383	1-249-425-11	CARBON	4.7K	5%	1/4W
R384	1-249-425-11	CARBON	4.7K	5%	1/4W
R390	1-249-429-11	CARBON	10K	5%	1/4W
R392	1-249-412-11	CARBON	390	5%	1/4W
R401	1-249-441-11	CARBON	100K	5%	1/4W
R402	1-249-429-11	CARBON	10K	5%	1/4W
R403	1-249-431-11	CARBON	15K	5%	1/4W
R404	1-247-903-00	CARBON	1M	5%	1/4W
R406	1-247-895-00	CARBON	470K	5%	1/4W
R407	1-249-421-11	CARBON	2.2K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R426	1-249-417-11	CARBON	1K	5%	1/4W
R427	1-249-415-11	CARBON	680	5%	1/4W
R428	1-249-429-11	CARBON	10K	5%	1/4W
R431	1-249-405-11	CARBON	100	5%	1/4W
R432	1-249-405-11	CARBON	100	5%	1/4W
R451	1-249-441-11	CARBON	100K	5%	1/4W
R452	1-249-429-11	CARBON	10K	5%	1/4W
R453	1-249-431-11	CARBON	15K	5%	1/4W
R454	1-247-903-00	CARBON	1M	5%	1/4W
R456	1-247-895-00	CARBON	470K	5%	1/4W
R457	1-249-421-11	CARBON	2.2K	5%	1/4W
R459	1-249-429-11	CARBON	10K	5%	1/4W
R501	1-247-750-81	CARBON	680	5%	1/2W F
R502	1-247-750-81	CARBON	680	5%	1/2W F
R601	1-249-418-11	CARBON	1.2K	5%	1/4W
R602	1-247-891-00	CARBON	330K	5%	1/4W
R603	1-249-432-11	CARBON	18K	5%	1/4W
R604	1-249-418-11	CARBON	1.2K	5%	1/4W
R605	1-249-418-11	CARBON	1.2K	5%	1/4W
R606	1-249-438-11	CARBON	56K	5%	1/4W
R607	1-249-418-11	CARBON	1.2K	5%	1/4W

Ref.No.	Part No.	Description			
R608	1-249-437-11	CARBON	47K	5%	1/4W
R609	1-215-487-00	CARBON	560K	5%	1/4W
R610	1-247-891-00	CARBON	330K	5%	1/4W
R611	1-249-423-11	CARBON	3.3K	5%	1/4W
R612	1-247-891-00	CARBON	330K	5%	1/4W
R613	1-249-417-11	CARBON	1K	5%	1/4W
R614	1-247-891-00	CARBON	330K	5%	1/4W
R615	1-249-429-11	CARBON	10K	5%	1/4W
R616	1-249-425-11	CARBON	4.7K	5%	1/4W
R621	1-249-421-11	CARBON	2.2K	5%	1/4W
R622	1-247-887-00	CARBON	220K	5%	1/4W
R623	1-249-429-11	CARBON	10K	5%	1/4W
R624	1-249-429-11	CARBON	10K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
R626	1-249-429-11	CARBON	10K	5%	1/4W
R627	1-249-433-11	CARBON	22K	5%	1/4W
R628	1-249-433-11	CARBON	22K	5%	1/4W
R629	1-249-433-11	CARBON	22K	5%	1/4W
R630	1-249-433-11	CARBON	22K	5%	1/4W
R651	1-249-418-11	CARBON	1.2K	5%	1/4W
R652	1-247-891-00	CARBON	330K	5%	1/4W
R653	1-249-432-11	CARBON	18K	5%	1/4W
R654	1-249-418-11	CARBON	1.2K	5%	1/4W
R655	1-249-418-11	CARBON	1.2K	5%	1/4W
R656	1-249-438-11	CARBON	56K	5%	1/4W
R657	1-249-418-11	CARBON	1.2K	5%	1/4W
R658	1-249-437-11	CARBON	47K	5%	1/4W
R659	1-215-487-00	CARBON	560K	5%	1/4W
R660	1-247-891-00	CARBON	330K	5%	1/4W
R661	1-249-423-11	CARBON	3.3K	5%	1/4W
R662	1-247-891-00	CARBON	330K	5%	1/4W
R663	1-249-417-11	CARBON	1K	5%	1/4W
R664	1-247-891-00	CARBON	330K	5%	1/4W
R665	1-249-429-11	CARBON	10K	5%	1/4W
R666	1-249-425-11	CARBON	4.7K	5%	1/4W
R670	1-249-428-11	CARBON	8.2K	5%	1/4W
R671	1-249-426-11	CARBON	5.6K	5%	1/4W
R672	1-249-419-11	CARBON	1.5K	5%	1/4W
R673	1-249-429-11	CARBON	10K	5%	1/4W
R674	1-249-417-11	CARBON	1K	5%	1/4W
R675	1-249-441-11	CARBON	100K	5%	1/4W
R676	1-249-417-11	CARBON	1K	5%	1/4W
R677	1-249-417-11	CARBON	1K	5%	1/4W
R678	1-249-418-11	CARBON	1.2K	5%	1/4W
R679	1-249-417-11	CARBON	1K	5%	1/4W
R680	1-249-417-11	CARBON	1K	5%	1/4W
R681	1-249-425-11	CARBON	4.7K	5%	1/4W
R682	1-249-425-11	CARBON	4.7K	5%	1/4W
R683	1-249-406-11	CARBON	120	5%	1/4W
R684	1-249-406-11	CARBON	120	5%	1/4W
R685	1-249-423-11	CARBON	3.3K	5%	1/4W
R686	1-249-423-11	CARBON	3.3K	5%	1/4W
R687	1-249-423-11	CARBON	3.3K	5%	1/4W
R688	1-249-423-11	CARBON	3.3K	5%	1/4W
R701	1-249-425-11	CARBON	4.7K	5%	1/4W
R702	1-249-428-11	CARBON	8.2K	5%	1/4W
R703	1-249-438-11	CARBON	56K	5%	1/4W

Ref.No.	Part No.	Description			
R704	1-249-414-11	CARBON	560	5%	1/4W
R705	1-249-438-11	CARBON	56K	5%	1/4W
R706	1-247-756-11	CARBON	2.2K	5%	1/2W F
R707	1-247-756-11	CARBON	2.2K	5%	1/2W F
R708	1-247-727-81	CARBON	10	5%	1/2W F
R709	1-249-429-11	CARBON	10K	5%	1/4W
R710	1-247-881-00	CARBON	120K	5%	1/4W
R711	1-217-151-00	RES, METAL PLATE	0.22		F
R712	1-249-414-11	CARBON	560	5%	1/4W
R713	1-249-414-11	CARBON	560	5%	1/4W
R721	1-212-881-11	FUSIBLE	100	5%	1/4W F
R722	1-247-752-11	CARBON	1K	5%	1/2W F
R723	1-247-752-11	CARBON	1K	5%	1/2W F
R724	1-212-881-11	FUSIBLE	100	5%	1/4W F
R725	1-249-414-11	CARBON	560	5%	1/4W
R726	1-249-441-11	CARBON	100K	5%	1/4W
R727	1-247-903-00	CARBON	1M	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W
R752	1-249-428-11	CARBON	8.2K	5%	1/4W
R753	1-249-438-11	CARBON	56K	5%	1/4W
R754	1-249-414-11	CARBON	560	5%	1/4W
R755	1-249-438-11	CARBON	56K	5%	1/4W
R756	1-247-756-11	CARBON	2.2K	5%	1/2W F
R757	1-247-756-11	CARBON	2.2K	5%	1/2W F
R758	1-247-727-81	CARBON	10	5%	1/2W F
R759	1-249-429-11	CARBON	10K	5%	1/4W
R760	1-247-881-00	CARBON	120K	5%	1/4W
R761	1-217-151-00	RES, METAL PLATE	0.22		F
R762	1-249-414-11	CARBON	560	5%	1/4W
R763	1-249-414-11	CARBON	560	5%	1/4W
R771	1-249-425-11	CARBON	4.7K	5%	1/4W
R772	1-249-425-11	CARBON	4.7K	5%	1/4W
R773	1-249-441-11	CARBON	100K	5%	1/4W
R774	1-249-430-11	CARBON	12K	5%	1/4W
R775	1-249-429-11	CARBON	10K	5%	1/4W
R776	1-249-430-11	CARBON	12K	5%	1/4W
R777	1-249-429-11	CARBON	10K	5%	1/4W
R778	1-249-425-11	CARBON	4.7K	5%	1/4W
R901	1-249-425-11	CARBON	4.7K	5%	1/4W
R902	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref.No.	Part No.	Description
RV301	1-238-069-11	RES, VAR, CARBON 50K (MIC LEVEL)
RV302	1-238-064-11	RES, VAR, SLIDE 100K (BALANCE)
RV303	1-238-065-11	RES, VAR, SLIDE 250K/250K (100Hz)
RV304	1-238-065-11	RES, VAR, SLIDE 250K/250K (400Hz)
RV305	1-238-065-11	RES, VAR, SLIDE 250K/250K (1kHz)
RV306	1-238-065-11	RES, VAR, SLIDE 250K/250K (4kHz)
RV307	1-238-065-11	RES, VAR, SLIDE 250K/250K (12kHz)
RV401	1-238-061-11	RES, VAR CARBON 50K/50K (VOLUME)
RY701	1-515-616-11	RELAY
RY901	1-515-516-00	(AEP, West Germany)...RELAY
RY901	1-515-601-11	(E, Saudi Arabia).....RELAY
S301	1-554-303-21	SWITCH, KEY BOARD (POWER)
S302	1-554-419-00	SWITCH, PUSH (1 KEY)(SAT)/(DBFB)
S303	1-571-436-11	SWITCH, KEYBOARD (TAPE)
S304	1-571-436-11	SWITCH, KEYBOARD (CD)
S305	1-571-436-11	SWITCH, KEYBOARD (TUNER)
S306	1-571-436-11	SWITCH, KEYBOARD (PHONO)
S901	1-571-437-11	(E, Saudi Arabia)SWITCH, POWER VOLTAGE CHANGE
T902	1-449-195-11	(E, Saudi Arabia).....TRANSFORMER, POWER
T902	1-449-248-11	(AEP, West Germany)...TRANSFORMER, POWER
VZ901	1-807-180-31	VARISTOR SNR-14A471U
X601	1-567-819-11	VIBRATOR, CERAMIC



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

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Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R704	1-249-414-11	CARBON	RV301	1-538-088-11	RES, VAR, CARBON 50K (MIC LEVEL)
R705	1-249-428-11	CARBON	RV302	1-538-084-11	RES, VAR, SLIDE 100K (BALANCE)
R706	Δ-1-247-758-11	CARBON	RV303	1-538-082-11	RES, VAR, SLIDE 250K (250K (100Hz))
R707	Δ-1-247-758-11	CARBON	RV304	1-538-082-11	RES, VAR, SLIDE 250K (250K (400Hz))
R708	Δ-1-247-757-81	CARBON	RV305	1-538-081-11	RES, VAR, SLIDE 250K (250K (1KHz))
R709	1-249-429-11	CARBON	RV306	1-538-081-11	RES, VAR, SLIDE 250K (250K (4KHz))
R710	1-247-881-00	CARBON	RV307	1-538-081-11	RES, VAR, SLIDE 250K (250K (15KHz))
R711	Δ-1-217-121-00	RES, METAL PLATE 0.25	RV401	1-538-081-11	RES, VAR, CARBON 50K (250K (VOLUME))
R712	1-249-414-11	CARBON	RY701	1-512-818-11	RELAY
R713	1-249-414-11	CARBON	RY801	1-512-818-00	(ALP, West Germany)... RELAY
R714	Δ-1-217-881-11	FUSIBLE	RY901	1-512-818-11	(E, Saudi Arabia)... RELAY
R715	Δ-1-247-757-11	CARBON	2301	1-554-303-51	SWITCH, KEY BOARD (POWER)
R716	Δ-1-247-757-11	CARBON	2302	1-554-410-00	SWITCH, PUSH (I KEY) (SAT) (DGRB)
R717	Δ-1-247-757-11	CARBON	2303	1-571-438-11	SWITCH, KEYBOARD (TAP)
R718	Δ-1-247-757-11	CARBON	2304	1-571-438-11	SWITCH, KEYBOARD (CU)
R719	Δ-1-247-757-11	CARBON	2305	1-571-438-11	SWITCH, KEYBOARD (TUNER)
R720	1-249-428-11	CARBON	2306	1-571-438-11	SWITCH, KEYBOARD (PHONE)
R721	1-249-428-11	CARBON	2307	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R722	1-249-428-11	CARBON	2308	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R723	1-249-428-11	CARBON	2309	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R724	1-249-428-11	CARBON	2310	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R725	1-249-428-11	CARBON	2311	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R726	Δ-1-247-757-11	CARBON	2312	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R727	Δ-1-247-757-11	CARBON	2313	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R728	Δ-1-247-757-11	CARBON	2314	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R729	Δ-1-247-757-11	CARBON	2315	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R730	1-249-428-11	CARBON	2316	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R731	Δ-1-217-121-00	RES, METAL PLATE 0.25	2317	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R732	1-249-414-11	CARBON	2318	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R733	1-249-414-11	CARBON	2319	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R734	1-249-428-11	CARBON	2320	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R735	1-249-428-11	CARBON	2321	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R736	1-249-428-11	CARBON	2322	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R737	1-249-428-11	CARBON	2323	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R738	1-249-428-11	CARBON	2324	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R739	1-249-428-11	CARBON	2325	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R740	1-249-428-11	CARBON	2326	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R741	1-249-428-11	CARBON	2327	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R742	1-249-428-11	CARBON	2328	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R743	1-249-428-11	CARBON	2329	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R744	1-249-428-11	CARBON	2330	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R745	1-249-428-11	CARBON	2331	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R746	1-249-428-11	CARBON	2332	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R747	1-249-428-11	CARBON	2333	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R748	1-249-428-11	CARBON	2334	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R749	1-249-428-11	CARBON	2335	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE
R750	1-249-428-11	CARBON	2336	1-571-437-11	(E, Saudi Arabia).....SWITCH, POWER VOLTAGE CHANGE

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