


HST-D305

SERVICE MANUAL

*AEP Model
UK Model
East European Model*



HST-D305 are the
STEREO DECK RECEIVER
in LBT-D305/D305CD.

Dolby noise reduction manufactured under license from
Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of
Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	DECK A TCM-190RA12B
	DECK B TCM-190RB22B

SPECIFICATIONS

Tuner System

FM stereo
FM/AM superheterodyne tuner
65 to 74MHz(East European model)
Tuning range 87.5 to 108 MHz
Antenna 75 ohms unbalanced
Intermediate frequency 10.7 MHz

MW/LW tuner section Tuning range

MW: 522 to 1,611 kHz (Italian model)
531 to 1,602 kHz
(AEP, UK, Germany,
East European model)
LW: 144 to 288 kHz (Italian model)
153 to 279 kHz
(AEP, UK, Germany,
East European model)

Antenna

AM loop antenna
External antenna terminal

Intermediate frequency

450 kHz

Amplifier

DIN power output 35 W + 35 W (6 ohms, at 1 kHz)
Continuous RMS power output
43 W + 43 W
(6 ohms, at 1 kHz, 5% THD)

Music power output 75 W + 75 W (6 ohms)

Input	Jack type	Sensitivity	Impedance
PHONO	Phono	2 mV	47 kohms
VIDEO	Phono	200 mV	47 kohms
CD	Phono	200 mV	47 kohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response CD: 15 Hz to 50 kHz $\pm \frac{0}{3}$ dB

Cassette deck

Recording system 4-track 2-channel stereo
Frequency response DOLBY NR OFF
With Type II cassette (Sony UX-S)
40 Hz to 14 kHz (± 3 dB)
With Type I cassette (Sony HF-S)
40 Hz to 13 kHz (± 3 dB)

— continued on next page —

COMPACT HI-FI STEREO SYSTEM
SONY®



Wow and flutter	±0.2% (DIN)
General	
Power requirements	220—230 V AC, 50/60 Hz (AEP, Germany, Italian, East European model) 240 V AC, 50 Hz (UK model)
Power consumption	110 W
AC outlet	Switched, 100 W max.
Weight	Approx. 9.2 kg
Dimensions	Approx. 355 × 377 × 325 mm (w/h/d, including projections)

Supplied accessories

Remote commander RM-S305 (1)
Batteries Sony SUM-3 (NS) (2)
FM wire antenna (1)
AM loop antenna (1)

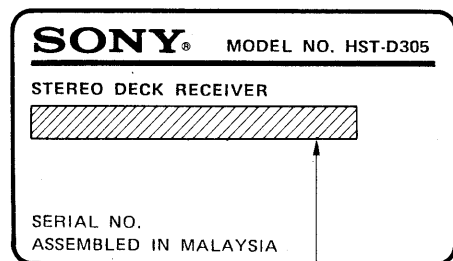
Design and specifications subject to change without notice.

Note

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

MODEL IDENTIFICATION

—Specification Label—





AEP, Germany, Italian, East European Model: AC: 220 V—230 V~50/60 Hz
UK Model: AC: 240 V~50 Hz

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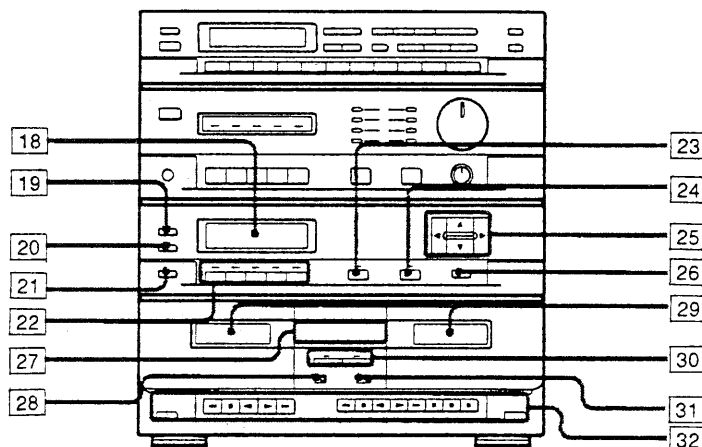
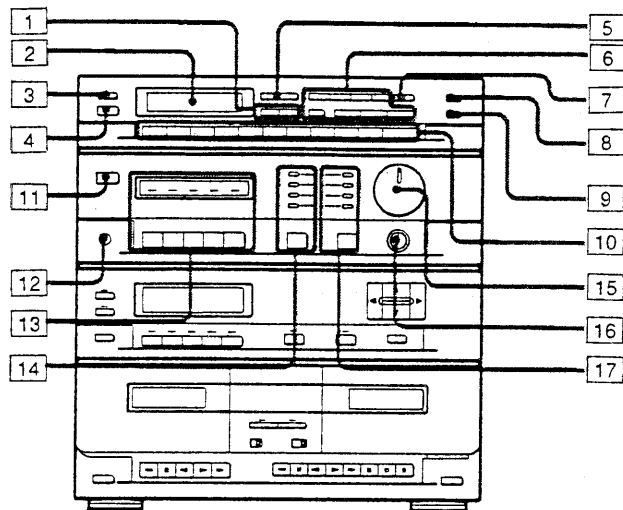
SAFETY-RELATED COMPONENT WARNING!!

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.

SECTION 1 GENERAL

This section is extracted from instruction manual.

1-1. LOCATION OF CONTROLS



Refer to the pages indicated in ● for details.

Tuner

- 1 DUAL MODE TUNING button 15
- 2 Display window
- 3 SLEEP button 45
- 4 Remote sensor
- 5 BAND SELECTOR 14
- 6 Buttons for setting the clock and timer 40
- 7 TIME/FREQ button 40
- 8 MEMORY button 15
- 9 ST/MUTE button 14
- 10 Buttons for storing station frequencies 17

Amplifier

- 11 POWER switch 10
- 12 HEADPHONES jack
- 13 Function selectors and indicators
- 14 DBFB (dynamic bass feedback) button and LEVEL INDICATOR 30
- 15 VOLUME control 10
- 16 BALANCE control 10
- 17 SURROUND button and LEVEL INDICATOR 30

Graphic equalizer

- 18 Display window
- 19 EFFECT button 30
- 20 EQ REC button 40
- 21 DISPLAY button 34
- 22 Numeric buttons and indicators 32
- 23 MEMORY button 35
- 24 PERSONAL FILE button 38
- 25 CURSOR CONTROL 35
- 26 CLEAR button 35

Cassette deck

- 27 Operating indicators
- 28 DOLBY NR (noise reduction) switch 25
- 29 Cassette holders
- 30 SYNCHRO DUBBING buttons 25
- 31 DIRECTION MODE selector 22
- 32 Tape operation buttons 18
 - ◀◀ Leftward fast winding,
 - ▶▶ Rightward fast winding,
 - ▶ Forward play,
 - ◀ Reverse play,
 - Stop,
 - ▲ EJECT,
 - PAUSE || Pause,
 - REC MUTE ○ Record muting,
 - REC ● Record,

SECTION 2 ADJUSTMENTS

2.1. MECHANICAL ADJUSTMENTS PRECAUTIONS

- Clean the following parts with a denatured alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer.
(Head demagnetizer do not approach for the erase head.)
- Do not use a magnetized screwdriver for the adjustment.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

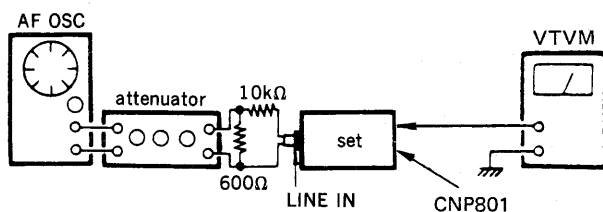
Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	35 to 60g·cm (0.49 to 0.83 oz·inch)
FWD Back tension	CQ-102C	2 to 6g·cm (0.028 to 0.084 oz·inch)
Reverse	CQ-102RB	35 to 60g·cm (0.49 to 0.83 oz·inch)
Reverse Back tension	CQ-102RB	2 to 6g·cm (0.028 to 0.084 oz·inch)
FF, REW	CQ-201B	70 to 110g·cm (0.98 to 1.52 oz·inch)

2.2. ELECTRICAL ADJUSTMENTS PRECAUTIONS

- The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
- The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch : OFF
DIR MODE switch : ⇌
 - Standard record position
Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

—Record Mode—



Standard Input Level

Input terminal	LINE IN
source impedance	10kΩ
input signal level	0.25V (−10dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47kΩ
output signal level	0.44V (−5dB)

Test Tape

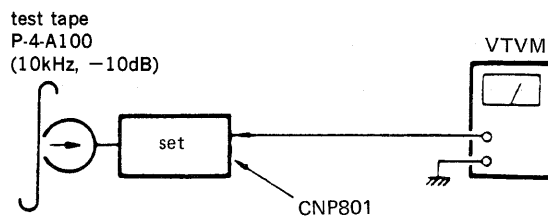
Tape	Contents	Use
P-4-A100	10kHz, −10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

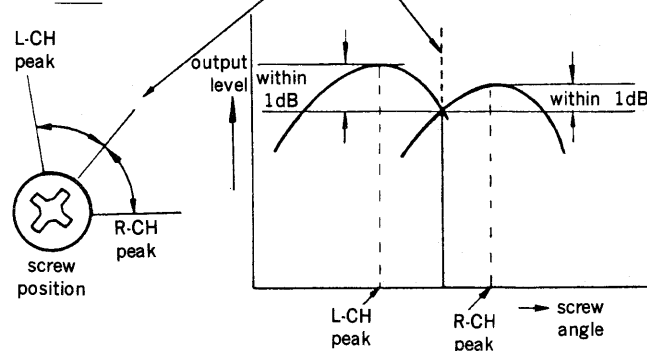
DECK A **DECK B**

Procedure :

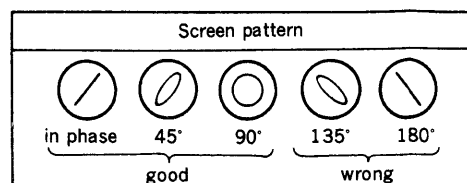
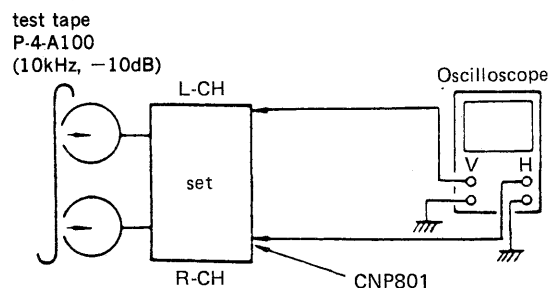
- FWD Playback Mode



- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

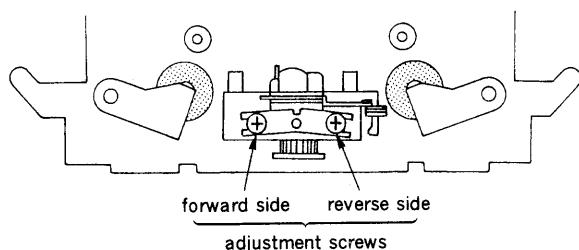


- Playback Mode



4. Change the reverse playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screw with suitable locking compound.

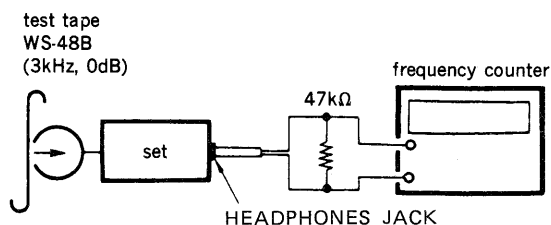
Adjustment Location : record/playback head



Tape Speed Adjustment DECK A DECK B

Procedure :

— FWD Playback Mode —



Perform high speed adjustment before normal speed adjustment.

(high speed adjustment)

1. Short test pin CNP901 on TC SIGNAL board.
2. Set to FWD playback mode.
3. Keep on pressing the HIGH SPEED DUBBING switch.
4. Adjust RV72 so that the frequency counter reading becomes $6,000 \pm 30\text{Hz}$.
5. After adjustment, disconnect TP801 shorted in step 1.

(normal speed adjustment)

1. Set to FWD playback mode.
2. Adjust RV71 so that the frequency counter reading becomes $3,000 \pm 15\text{Hz}$.

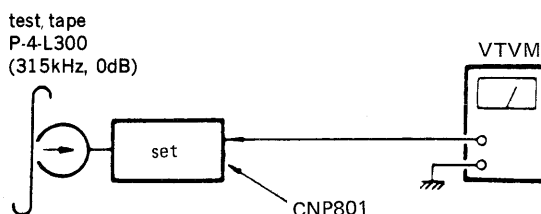
Frequency difference between deck A and deck B the beginning of the tape should be within 1.0%.

Adjustment Location : MD-A, MD-B board

Playback Level Adjustment DECK A DECK B

Procedure :

— FWD Playback Mode —



Adjust deck A/B: RV11 (L-CH), RV21 (R-CH) so that the VTVM reading becomes the adjustment limits below.

Adjustment Limits :

LINE OUT level: $-2.7 \pm 0.5\text{dB}$

Level Difference between Channels: within 1.0dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : MD-A, MD-B board

Record Bias Adjustment DECK B

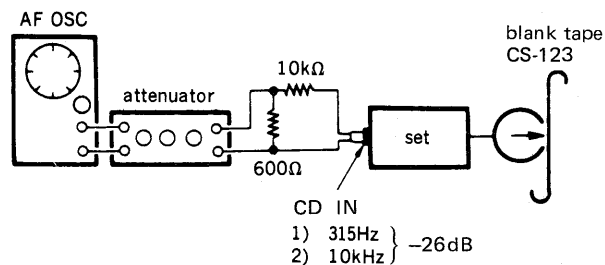
Setting :

REC LEVEL control: standard record position (Refer to page 4.)

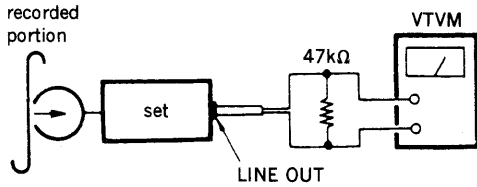
Test pin CNP901: short

Procedure :

1. Record Mode



2. Playback Mode



Playback the signal recorded in step 1.
Confirm that the 10kHz playback output is $0 \pm 0.5\text{dB}$ relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

Adjustment Location : MD-B board

Record Level Adjustment **DECK B**

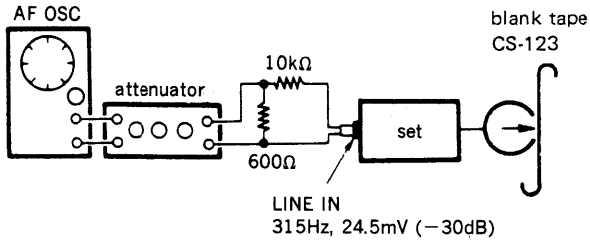
Setting :

REC LEVEL control: standard record position (Refer to page 4.)

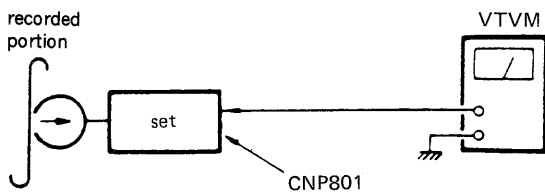
Test pin CNP901: short

Procedure :

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.

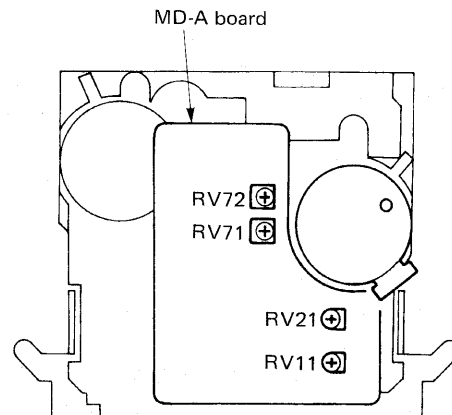
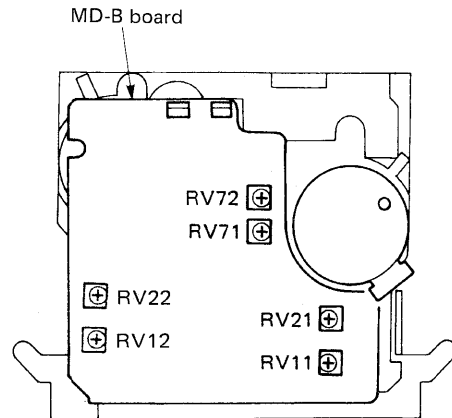
If necessary, adjust RV701 (L-CH), RV751 (R-CH) and repeat steps 1 and 2.

Adjustment Limits :

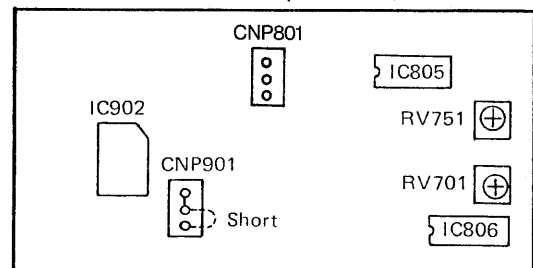
LINE OUT level : $-22.7 \pm 0.5\text{ dB}$

Adjustment Location : TC SIGNAL board

—Adjustment Parts Location Diagrams—



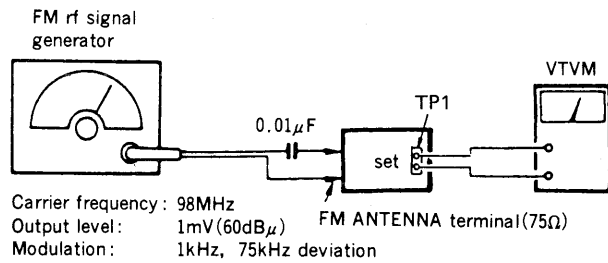
TC SIGNAL BOARD (Component Side)



TUNER SECTION

As FM FRONT-END FE301 is difficult to repair if faulty, replace it with new one.

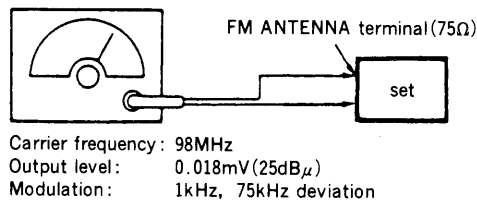
FM NULL Adjustment



Procedure :

1. Tune the set to 98 MHz.
2. Adjust T301 for 0V reading on the VTVM.

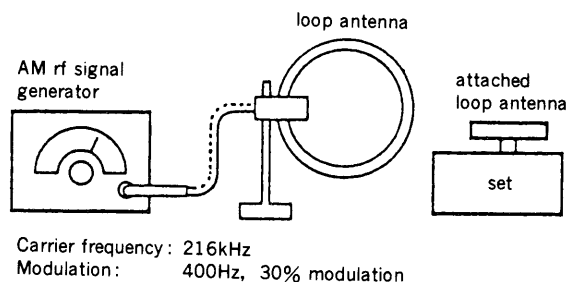
FM Tuned Level Adjustment



Procedure :

1. Tune the set to 98 MHz.
2. Adjust RV302 to the point where "TUNED" sign on FL601 just turns light.

• AM SECTION



AM Tuned Level Adjustment

• MW BAND

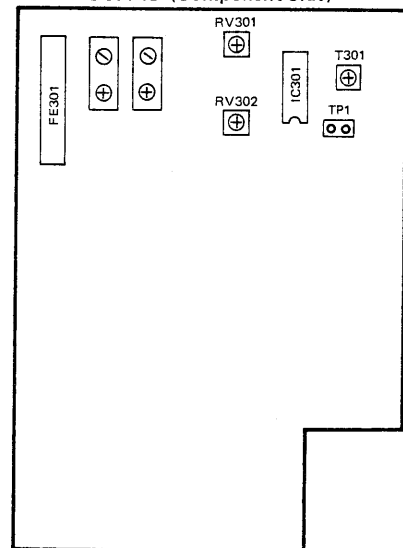
1. Set loop antenna input level to 0.56mV (78 dBμ/m) and no signal tuned light should not on.
2. Adjust RV301 to the point where "TUNED" sign on FL601 just turns light.

• LW BAND

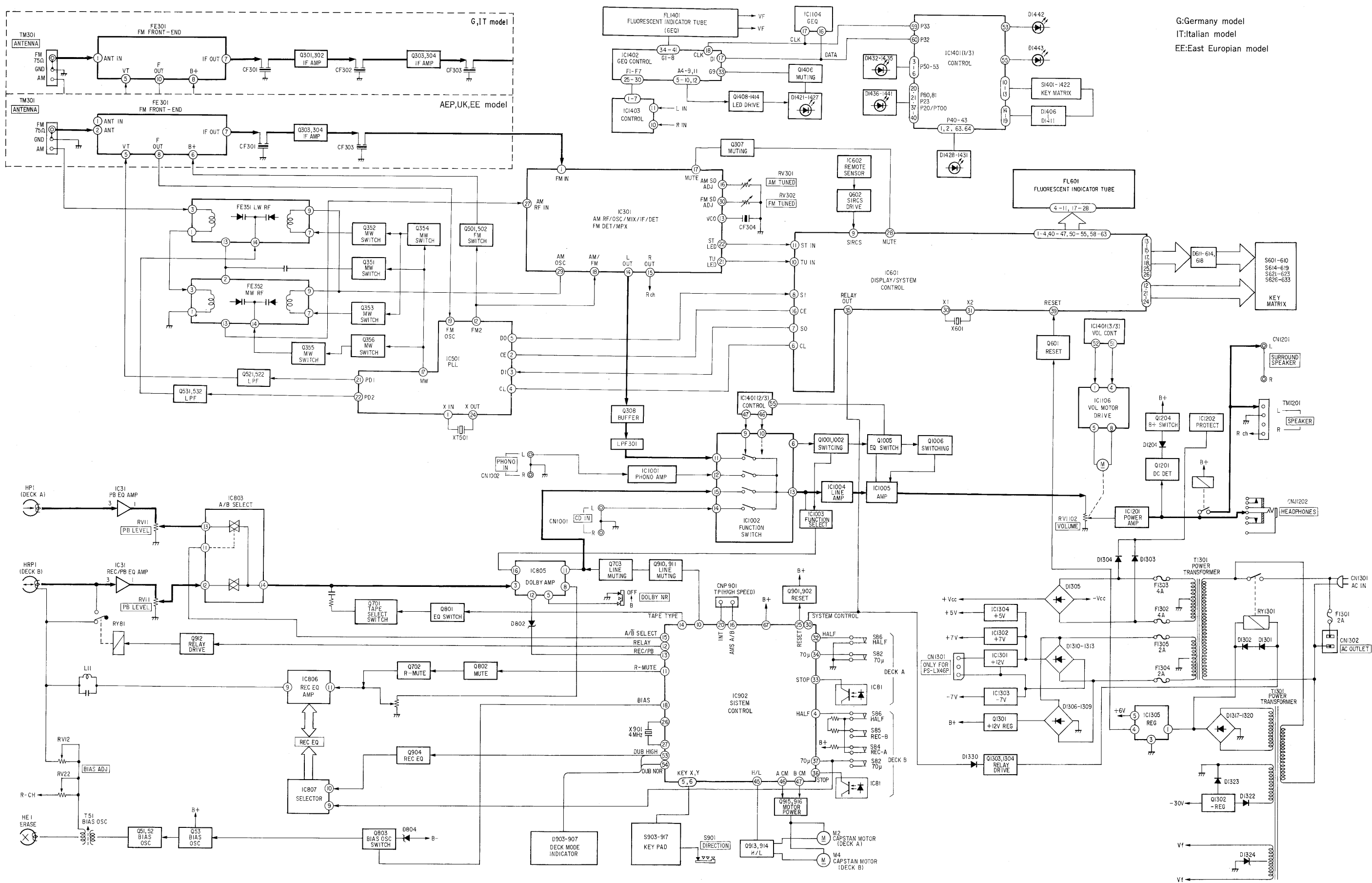
1. Tune the set to 216kHz.
2. Confirm that the loop antenna input level of 2.5mV (80dBμ/m) and no signal should not auto stop.

Adjustment Location :

MAIN BOARD (Component Side)



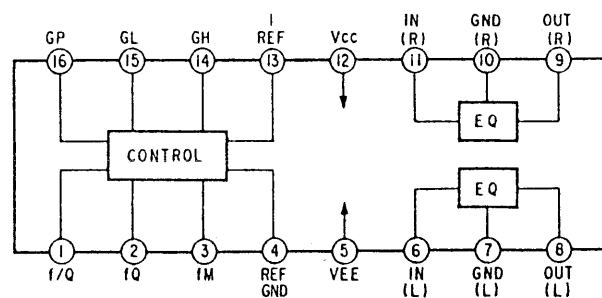
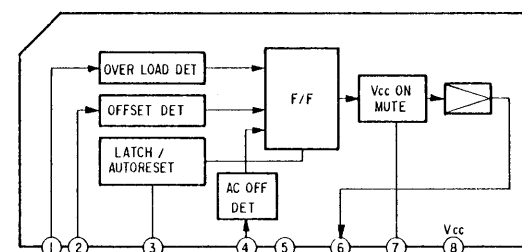
3-1. BLOCK DIAGRAM



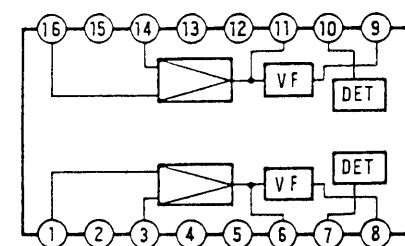
G:Germany model
IT:Italian model
EE:East European model

3-2. IC BLOCK DIAGRAMS

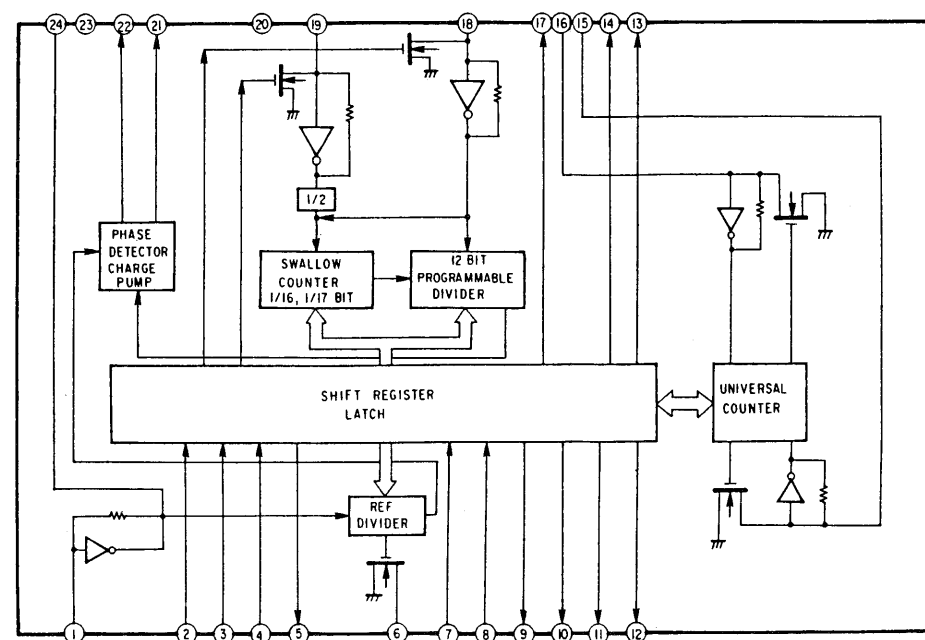
• IC806 CXA1198AP

• IC1202 μ 1237HA

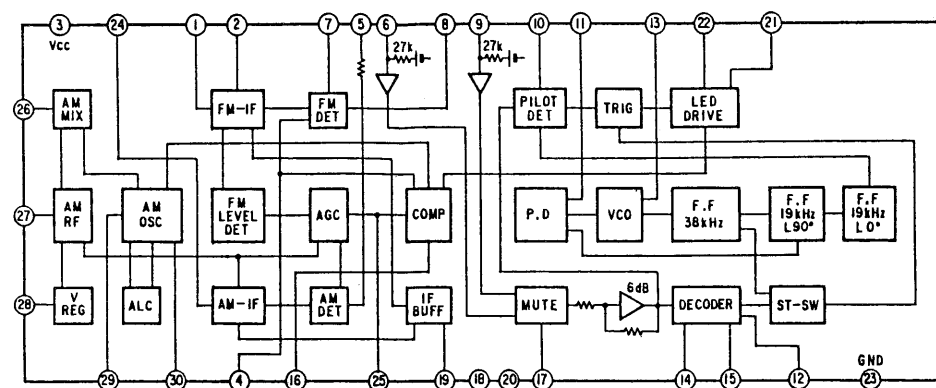
• IC805 CXA1100P



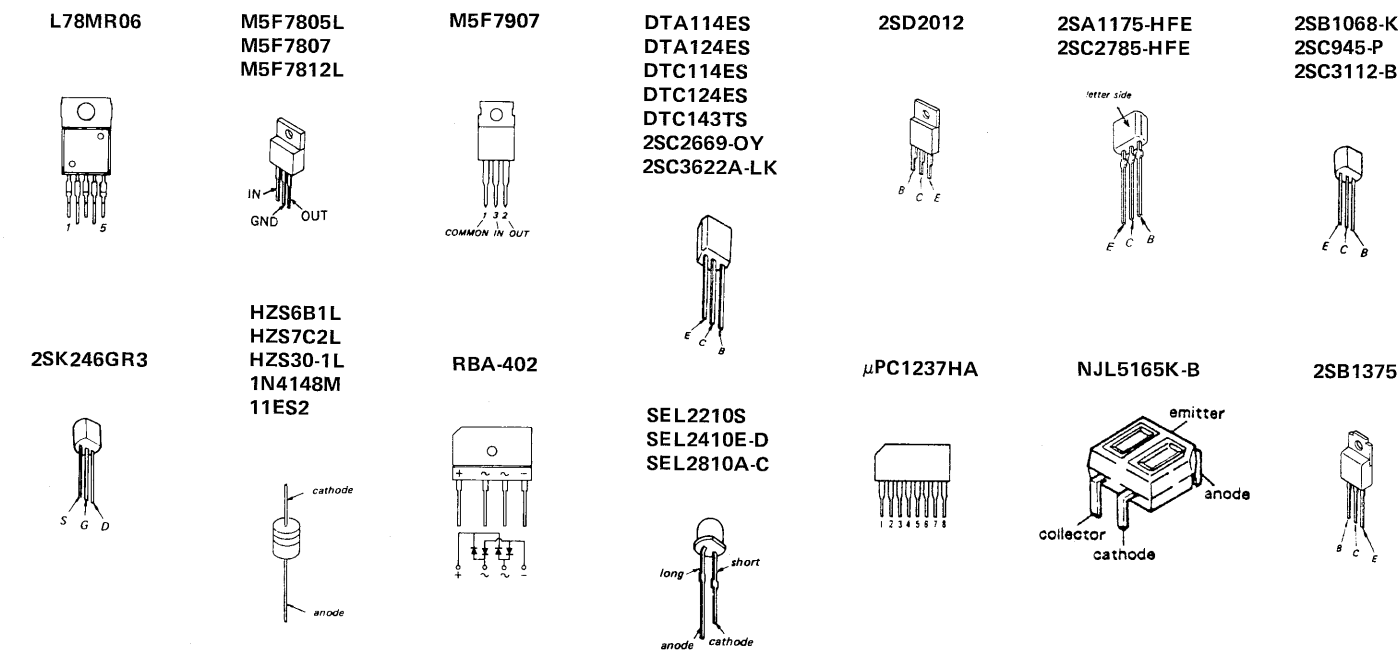
• IC501 LC7218



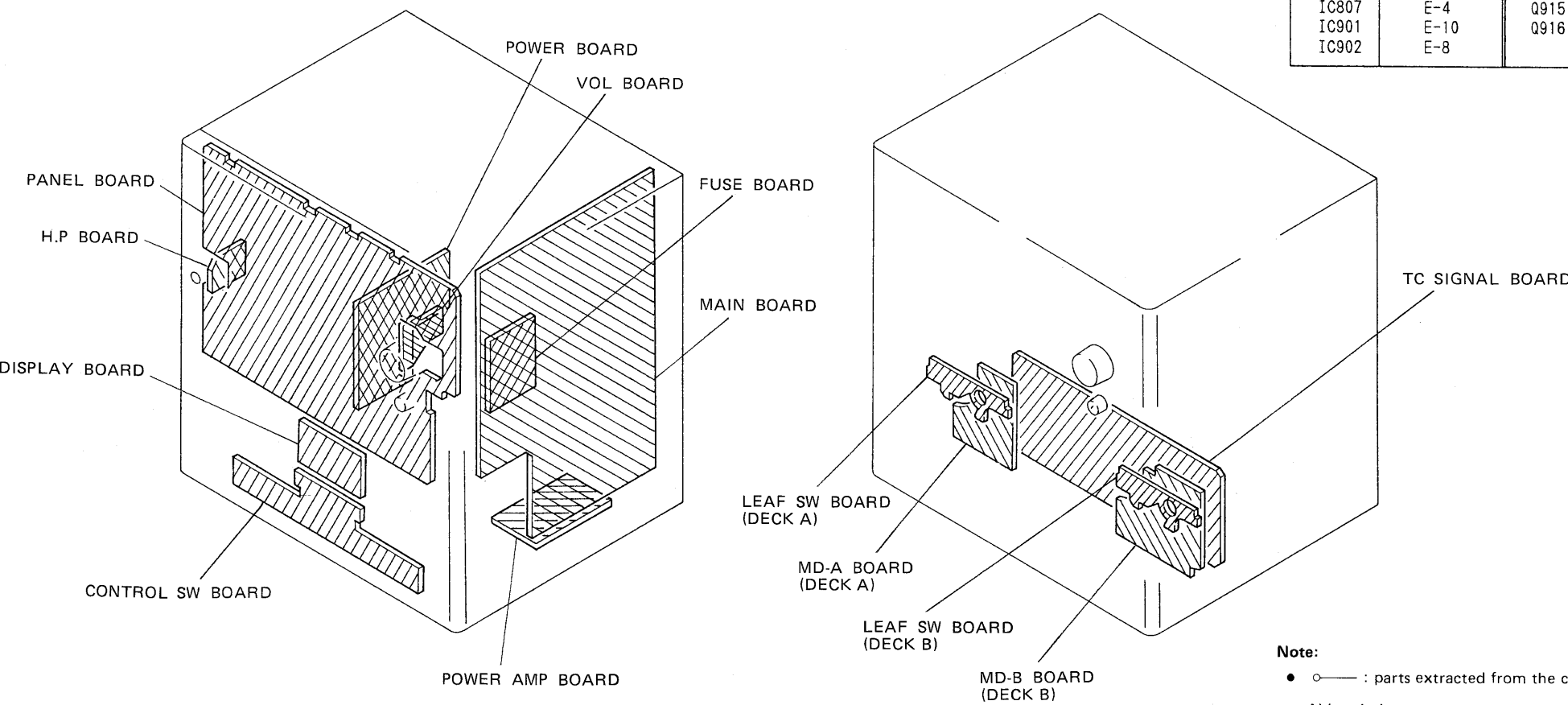
• IC301 LA1851N



3-3. SEMICONDUCTOR LEAD LAYOUTS



3-4. CIRCUIT BOARD LOCATION

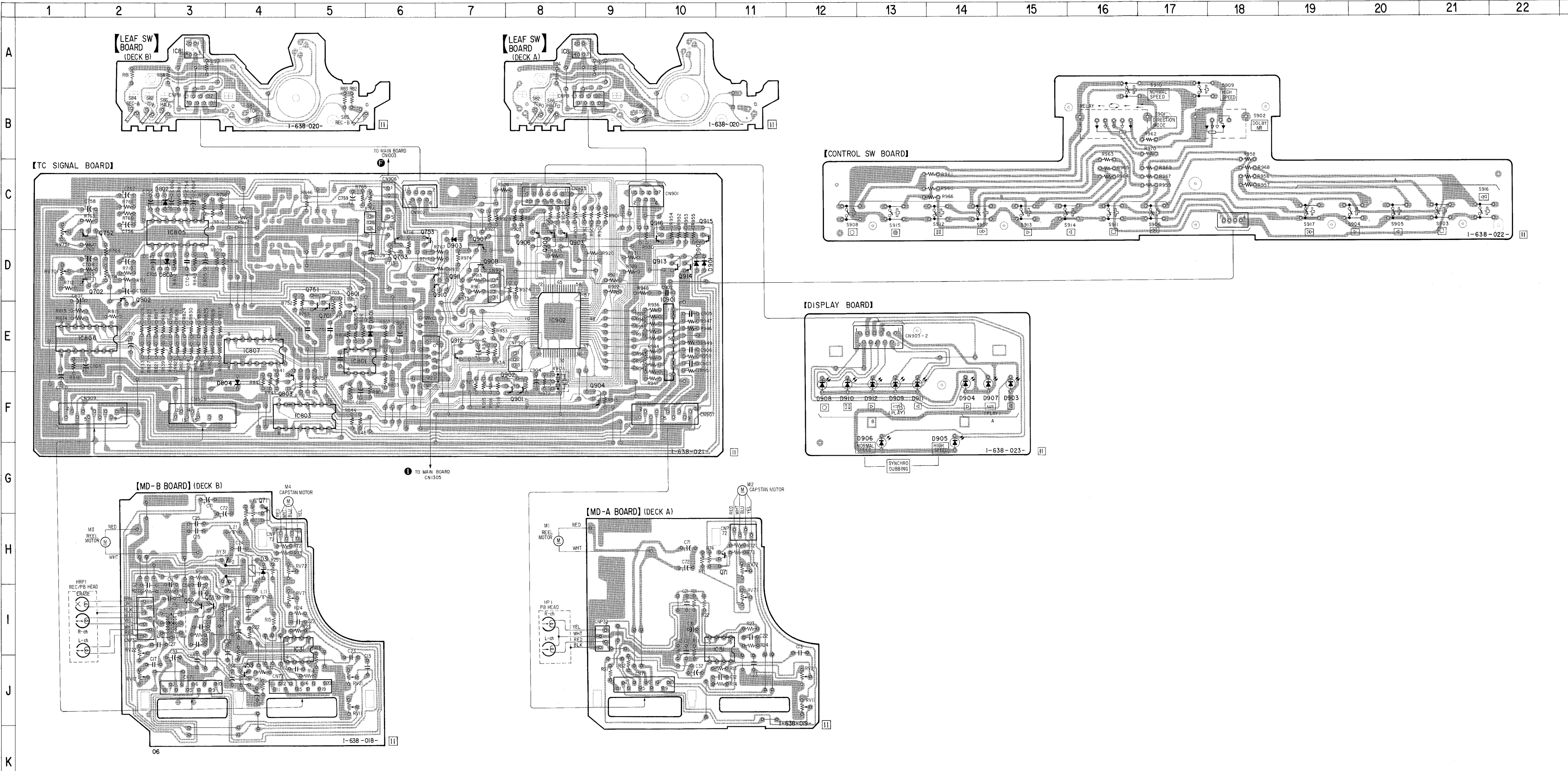


3-5. PRINTED WIRING BOARDS
-TC SECTION-

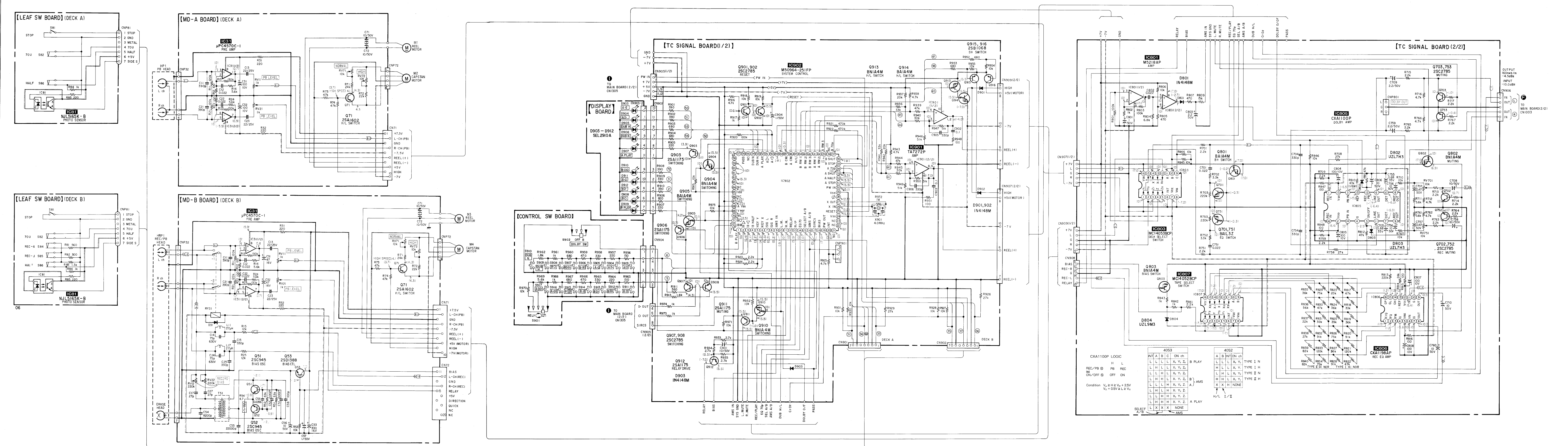
● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D31	H-4	Q51	I-3
D801	E-6	Q52	I-3
D802	C-3	Q53	J-4
D803	D-3	Q71	G-4 (MD-B)
D804	F-4	Q71	H-11 (MD-A)
D901	D-10	Q701	E-5
D902	D-10	Q702	D-2
D903	D-7 (TC)	Q703	D-6
D903	F-15 (DISPLAY)	Q751	D-5
D904	I-14	Q752	D-2
D905	F-14	Q753	D-6
D906	F-13	Q801	D-5
D907	F-14	Q802	D-2
D908	F-12	Q803	F-4
D909	F-13	Q901	F-8
D910	F-12	Q902	F-8
D911	F-13	Q903	D-8
D912	F-13	Q904	F-9
		Q905	D-8
		Q906	D-8
		Q907	D-7
		Q908	D-7
		Q910	D-7
		Q911	D-7
		Q912	E-7
		Q913	D-10
		Q914	D-10
		Q915	C-10
		Q916	C-10
IC31	I-10 (MD-A)		
IC31	I-4 (MD-B)		
IC81	A-8 (DECK A)		
IC81	A-3 (DECK B)		
IC801	E-5		
IC803	F-5		
IC805	D-3		
IC806	E-1		
IC807	E-4		
IC901	E-10		
IC902	E-8		

Note:
● — : parts extracted from the component side.
● Abbreviation
G: Germany model
IT: Italian model
EE: East European model



36. SCHEMATIC DIAGRAM -TC SECTION- • See page 36 for note.



3-7. PRINTED WIRING BOARDS
—MAIN SECTION—

● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D351	E-12	IC1201	C-3
D1201	C-5	IC1202	E-24
D1202	B-24	IC1301	B-20
D1203	B-24	IC1302	E-22
D1204	F-23	IC1303	G-23
D1251	C-2	IC1304	F-22
D1301	I-8	IC1305	J-8
D1302	I-8		
D1303	C-22	Q301	D-13
D1304	C-22	Q302	D-13
D1305	C-23	Q303	E-13
D1306	B-21	Q304	E-13
D1307	C-21	Q305	I-14
D1308	B-21	Q306	I-13
D1309	B-21	Q307	H-15
D1310	B-21	Q308	H-14
D1311	B-21	Q309	H-15
D1312	B-22	Q351	D-12
D1313	B-22	Q352	C-13
D1314	D-21	Q353	D-13
D1315	G-23	Q354	E-13
D1316	F-22	Q355	E-12
D1317	J-9	Q356	E-13
D1318	J-9	Q501	E-12
D1319	J-9	Q502	E-12
D1320	J-9	Q521	C-15
D1321	J-7	Q522	B-15
D1322	J-10	Q531	C-15
D1323	J-8	Q532	C-15
D1324	I-8	Q1001	C-17
D1330	J-6	Q1002	C-17
D1331	F-21	Q1004	C-19
		Q1005	G-16
IC301	G-13	Q1006	H-16
IC501	E-15	Q1101	B-19
IC1001	C-16	Q1151	B-20
IC1002	E-17	Q1201	C-5
IC1003	C-18	Q1202	D-2
IC1004	H-18	Q1203	D-2
IC1005	G-17	Q1204	F-24
IC1101	E-20	Q1251	C-2
IC1102	C-20	Q1301	D-22
IC1103	B-20	Q1302	K-8
IC1104	E-18	Q1303	J-6
IC1105	G-18	Q1304	I-6
IC1155	I-18		

Note:

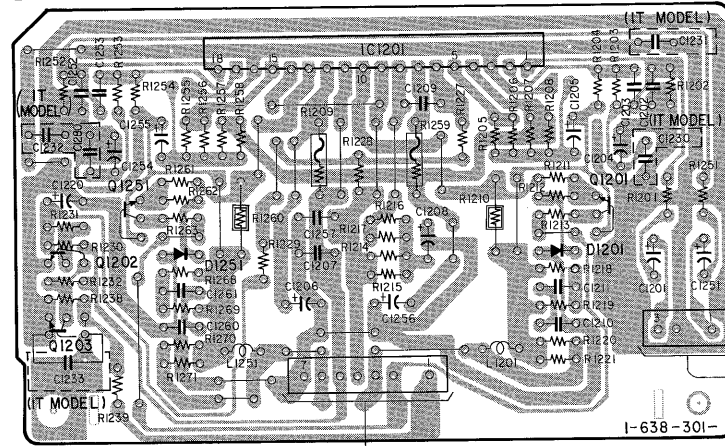
● — : parts extracted from the component side.

● Abbreviation

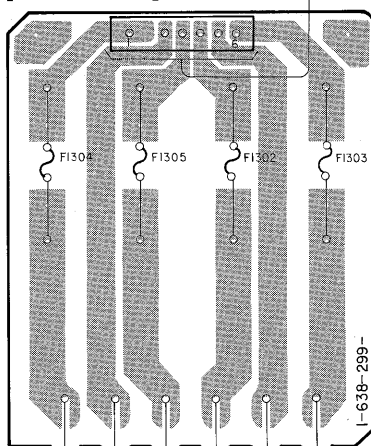
G: Germany model

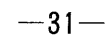
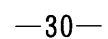
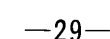
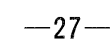
IT: Italian model

【POWER AMP BOARD】



【FUSE BOARD】





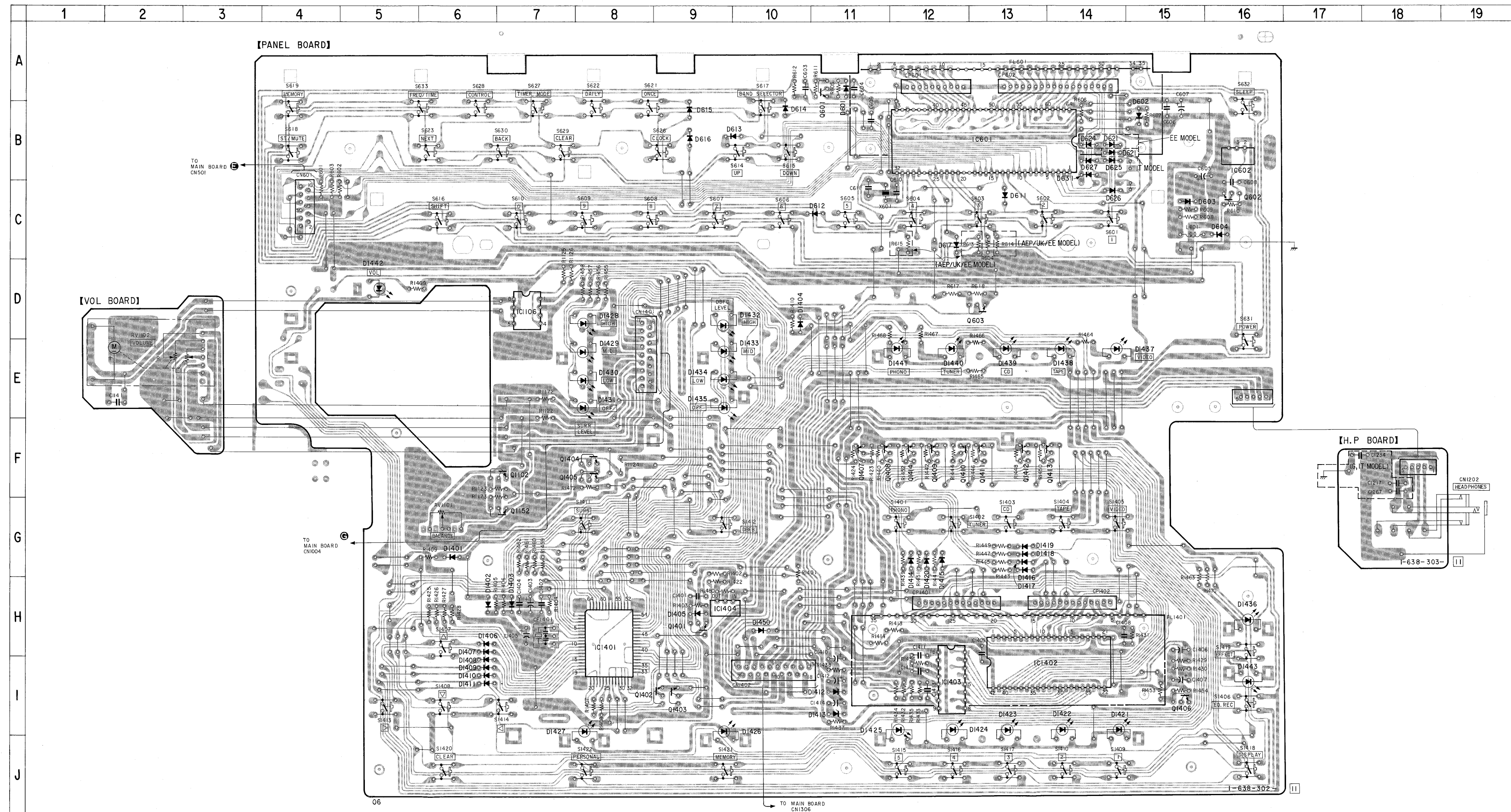
3-9. PRINTED WIRING BOARDS —PANEL SECTION—

- **Semiconductor Location**






Ref. No.	Location	Ref. No.	Location
D601	B-11	D1428	D-8
D602	B-15	D1429	E-8
D603	C-15	D1430	E-8
D604	C-16	D1431	E-8
D611	C-13	D1432	D-10
D612	C-11	D1433	E-10
D613	B-10	D1434	E-9
D614	B-10	D1435	E-9
D615	B-9	D1436	H-16
D616	B-9	D1437	E-15
D617	C-12	D1438	E-14
D621	B-15	D1439	E-13
D624	B-14	D1440	E-12
D625	B-14	D1441	E-12
D626	C-14	D1442	D-5
D627	B-14	D1443	I-16
D631	B-14		
D1401	G-6	IC601	B-13
D1402	H-6	IC602	B-16
D1403	H-7	IC1106	D-7
D1404	D-10	IC1401	H-8
D1405	H-9	IC1402	I-13
D1406	H-6	IC1403	I-12
D1407	H-6	IC1404	H-9
D1408	I-6		
D1409	I-6	Q601	B-11
D1410	I-6	Q602	C-16
D1411	I-6	Q603	D-13
D1412	I-11	Q1102	F-7
D1413	I-11	Q1152	G-7
D1414	H-12	Q1401	H-9
D1415	H-12	Q1402	I-8
D1416	H-13	Q1403	I-9
D1417	H-13	Q1404	F-7
D1418	G-13	Q1405	F-7
D1419	G-13	Q1406	I-15
D1420	H-12	Q1407	F-11
D1421	I-14	Q1408	F-11
D1422	I-14	Q1409	F-12
D1423	I-13	Q1410	F-12
D1424	I-13	Q1411	F-13
D1425	I-11	Q1412	F-13
D1426	I-10	Q1413	F-14
D1427	I-7	Q1414	F-12



Note:

- ○ — : parts extracted from the component side
- Abbreviation
 - G: Germany model
 - IT: Italian model
 - EE: East European model



Note:

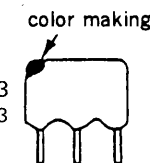
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - \triangle : internal component.
 - : nonflammable resistor.
 - : fusible resistor.
 - : B+ Line
 - : B- Line
 - : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 - no mark: FM
 - () : PB
 - < : REC
- Voltages are taken with a VOM (input Impedance 10M Ω).
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
 - \Rightarrow : FM
 - \Rightarrow : REC (DECK B)
 - Σ : PB (DECK A)
 - Σ : PB (DECK B)

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

- Abbreviation
G: Germany model
IT: Italian model
EE: East European model

Note on Ceramic Filter Replacement.

This set employs two or three ceramic filters (CF301 – CF303) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by jumpers (*A, *B) is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



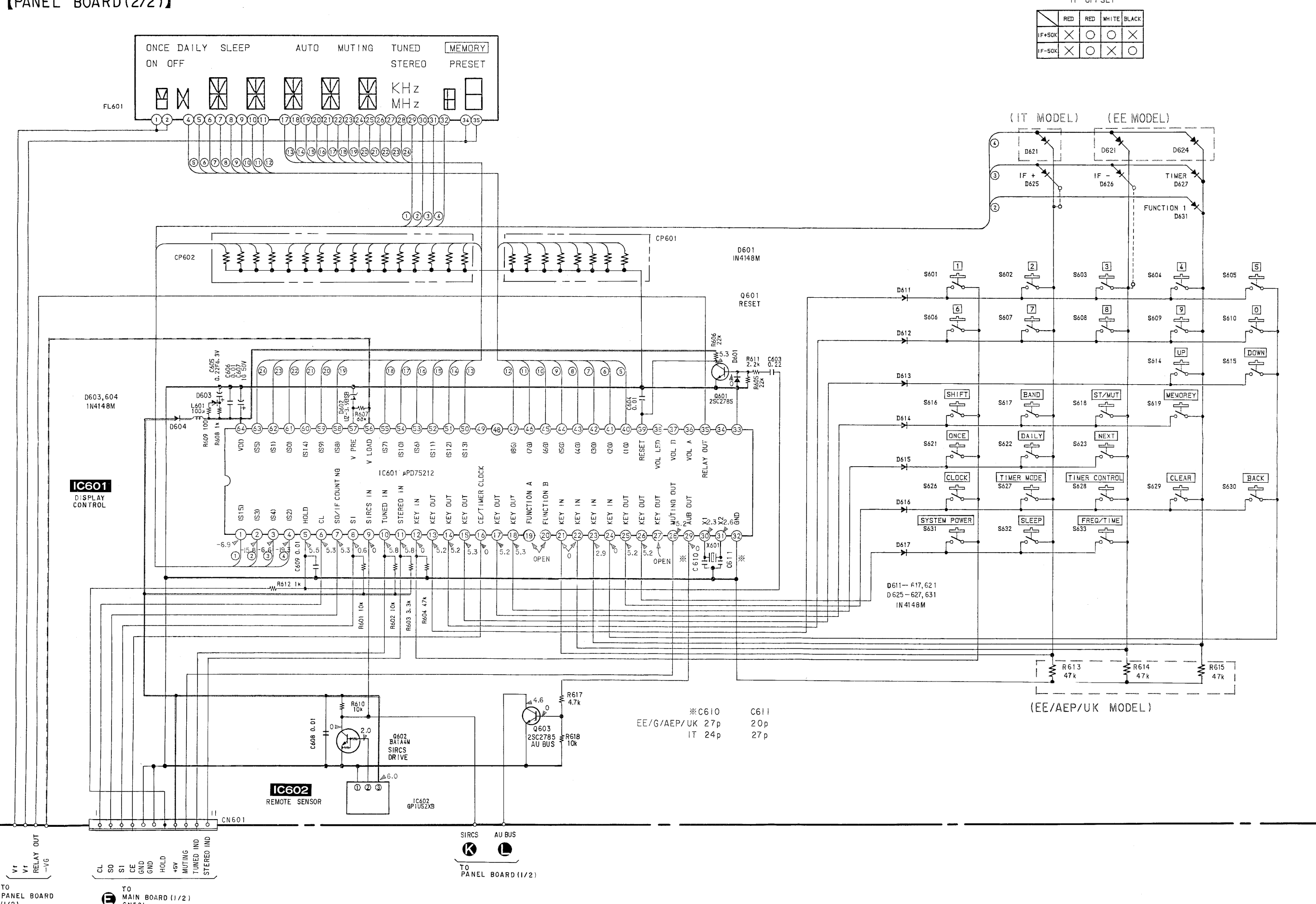
AEP, UK, EE model: CF301, 303
G, IT model: CF301—CF303

○: Connected
×: not Connected

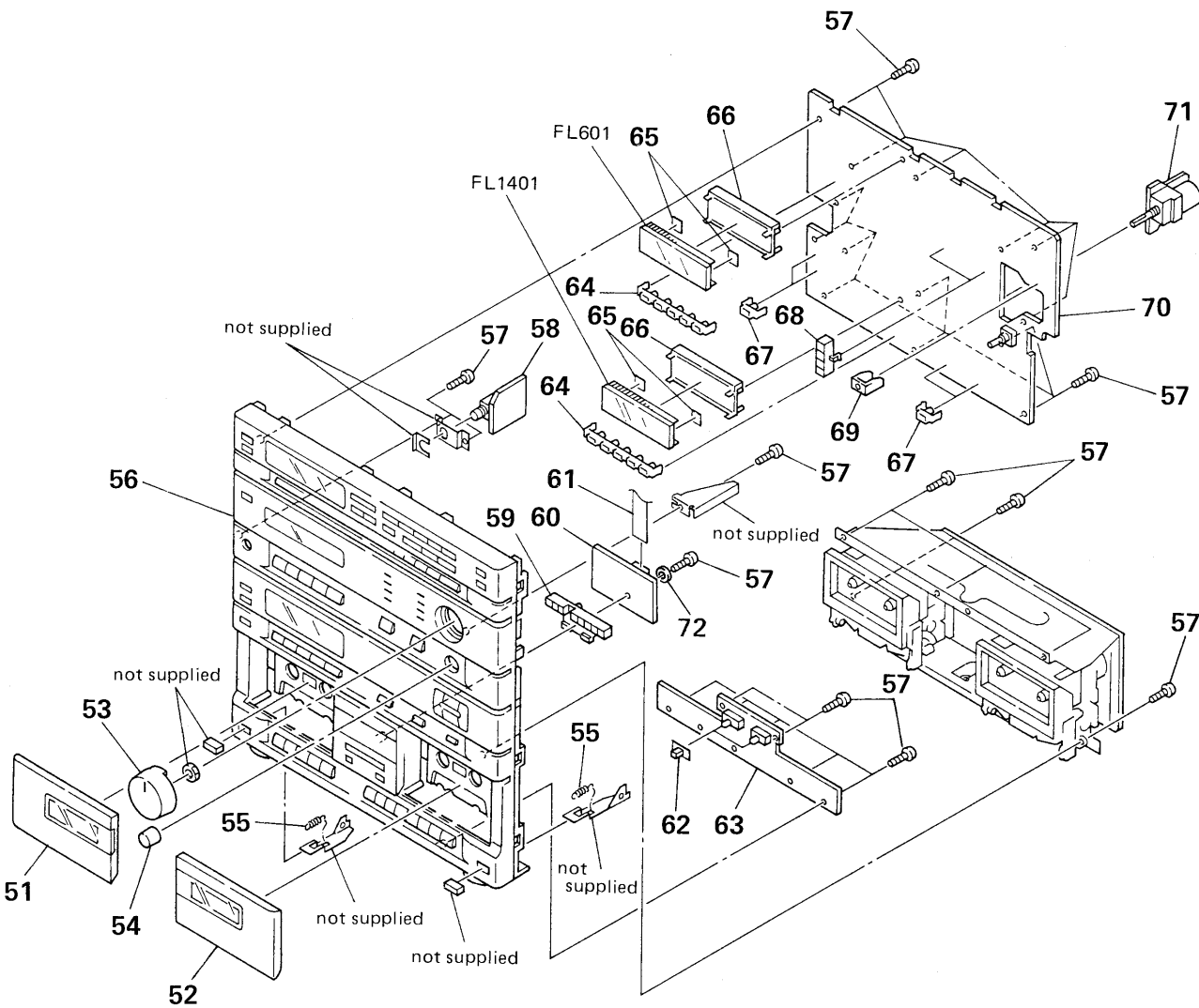
Ceramic filter		Mount		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	IF-50K * B	IF + 50K * A	
white	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	×	10.650

FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i. e. of same color coding, should be used for CF301-303.

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



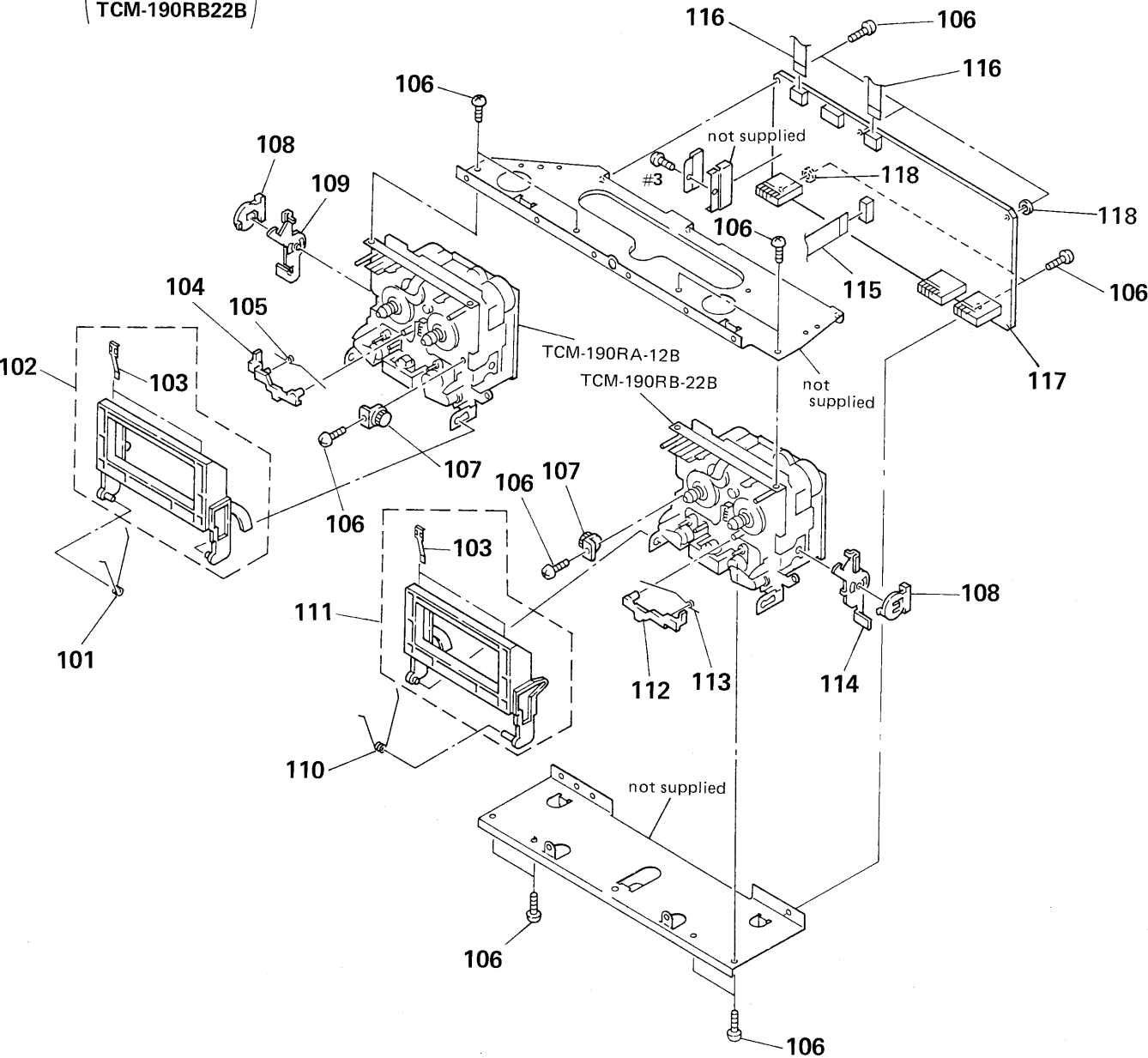
4-2. FRONT PANEL SECTION



Ref.No.	Part No.	Description	Remark
51	A-4323-969-A	LID (A) ASSY, CASSETTE (IT)	
51	A-4323-817-A	LID (A) ASSY, CASSETTE (AEP, G, UK, EE)	
52	A-4323-970-A	LID (B) ASSY, CASSETTE (IT)	
52	A-4323-818-A	LID (B) ASSY, CASSETTE (AEP, G, UK, EE)	
53	A-4323-382-A	KNOB (VO) ASSY	
54	4-942-282-01	KNOB (B)	
55	4-885-182-11	SPRING, TENSION	
56	A-4323-819-A	PANEL ASSY, FRONT (AEP, G, UK, EE)	
56	A-4323-971-A	PANEL ASSY, FRONT (IT)	
57	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
58	* 1-638-303-11	HP BOARD	
59	* 4-943-502-01	HOLDER (TC), LED	
60	* 1-638-023-11	DISPLAY BOARD	

Ref.No.	Part No.	Description	Remark
61	1-590-575-12	WIRE, FLAT TYPE 11P	
62	4-943-494-01	KNOB	
63	* 1-638-022-11	CONTROL SW BOARD	
64	* 4-943-499-01	HOLDER (A) (EQ), LED	
65	* 4-921-941-01	CUSHION (FL)	
66	* 4-942-301-01	HOLDER, FL TUBE	
67	* 4-943-500-01	HOLDER (B) (EQ), LED	
68	* 4-943-501-01	HOLDER (4 GANG), LED	
69	* 4-930-781-11	HOLDER (VOL), LED	
70	* A-4341-509-A	PANEL BOARD, COMPLETE (AEP, UK)	
70	* A-4345-004-A	PANEL BOARD, COMPLETE (G)	
70	* A-4345-007-A	PANEL BOARD, COMPLETE (IT)	
70	* A-4345-533-A	PANEL BOARD, COMPLETE (EE)	
71	* 1-638-304-11	VOL BOARD	
72	4-932-613-01	SPACER	

4-3. MECHANISM SECTION (1)
 (TCM-190RA12B)
 (TCM-190RB22B)

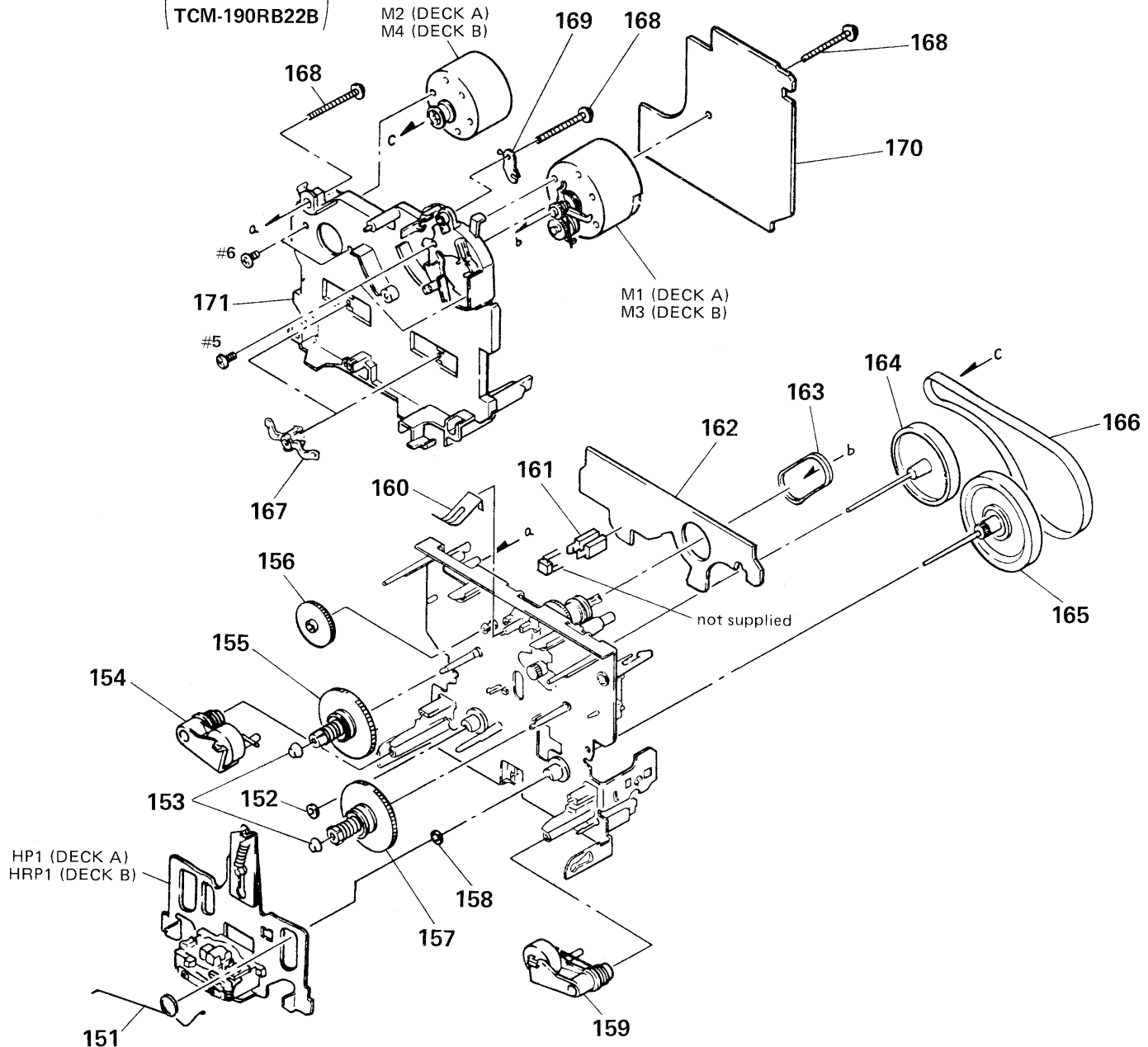


Ref.No.	Part No.	Description	Remark
101	3-354-959-01	SPRING (LOADING L), TORSION	
102	X-3340-194-1	HOLDER (L) ASSY, CASSETTE	
103	3-308-823-11	SPRING	
104	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
105	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
106	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
107	3-354-963-01	DAMPER	
108	3-354-957-01	JOINT (LOCK LEVER)	
109	* 3-354-953-01	LEVER (LOCK LEVER L)	

Ref.No.	Part No.	Description	Remark
110	3-354-960-01	SPRING (LOADING R), TORSION	
111	X-3340-195-1	HOLDER (R) ASSY, CASSETTE	
112	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
113	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
114	* 3-354-954-01	LEVER (LOCK LEVER R)	
115	1-590-459-11	WIRE, FLAT TYPE	
116	1-590-574-11	WIRE, FLAT TYPE 7P	
117	* A-4341-504-A	TC SIGNAL BOARD, COMPLETE	
118	4-932-613-01	SPACER	

4-4. MECHANISM DECK SECTION (2)

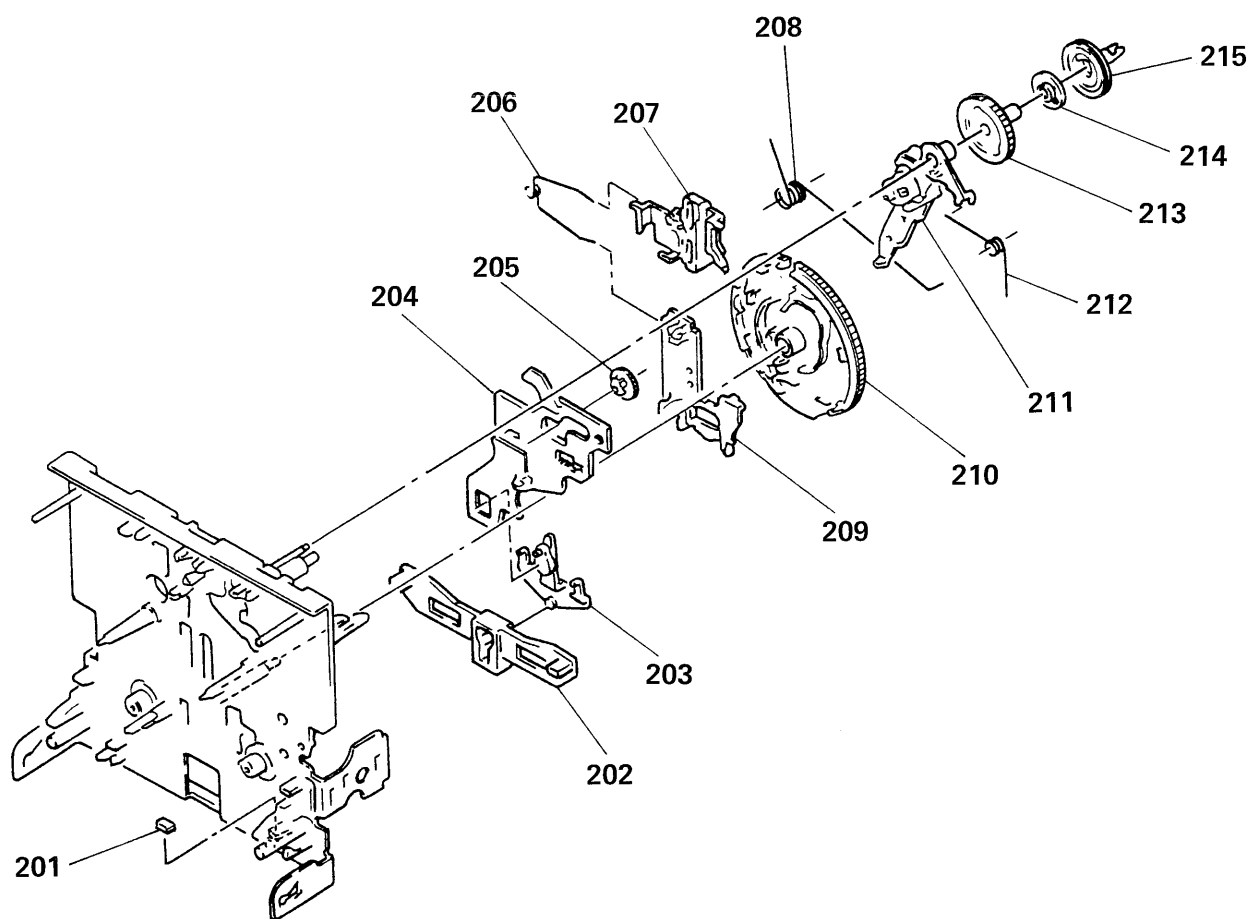
(TCM-190RA12B)
(TCM-190RB22B)



Ref. No.	Part No.	Description	Remark
151	3-359-455-01	SPRING, TORSION	
152	3-356-714-01	WASHER	
153	3-362-308-01	CAP (REEL)	
154	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY	
155	X-3362-078-1	TABLE ASSY (B), REEL	
156	3-359-424-01	GEAR (REV GEAR)	
157	X-3359-404-1	TABLE ASSY, REEL	
158	3-356-713-01	WASHER	
159	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	
160	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF	
161	3-343-419-01	HOLDER (S SENSOR A)	
162	* 1-638-020-11	LEAF SW BOARD (DECK A)	
162	* 1-638-020-11	LEAF SW BOARD (DECK B)	
163	3-359-466-01	BELT (FR), SQUARE	
164	X-3359-410-1	FLYWHEEL (REV) ASSY	
165	X-3359-406-1	FLYWHEEL (FWD) COMPLETE ASSY	

Ref. No.	Part No.	Description	Remark
166	3-359-417-01	BELT (FLAT), CAPSTAN	
167	3-575-321-00	RETAINER, THRUST, CAPSTAN	
168	3-359-414-01	SCREW (+PTPWH 2X23)	
169	3-359-450-01	PLATE, GROUND	
170	* 1-638-019-11	MD-A BOARD (DECK A)	
170	* A-2006-446-A	MD-B BOARD, COMPLETE (DECK B)	
171	* 3-359-436-11	BASE (THRUST RETAINER), FITTING	
HP1	A-2003-757-A	BASE ASSY, HEAD (DECK A)	
HRP1	A-2003-760-A	BASE ASSY, HEAD (DECK B)	
M1	X-3359-415-1	REEL MOTOR ASSY (DECK A)	
M2	X-3359-417-1	CAPSTAN MOTOR ASSY (DECK A)	
M3	X-3359-415-1	REEL MOTOR ASSY (DECK B)	
M4	X-3359-417-1	CAPSTAN MOTOR ASSY (DECK B)	

4-5. MECHANISM DECK SECTION (3)
 (TCM-190RA-12B)
 (TCM-190RB-22B)



Ref.No.	Part No.	Description	Remark
201	3-359-469-01	SPACER	
202	* 3-359-425-01	SLIDER (REVERSE SLIDER)	
203	3-359-426-01	LEVER (REVERSE LEVER)	
204	* 3-359-415-01	SLIDER (TRIGGER SLIDER)	
205	3-359-448-01	GEAR (TRIGGER)	
206	3-359-454-01	SPRING, TORSION	
207	3-359-429-01	SLIDER (BRAKE PLATE)	

Ref.No.	Part No.	Description	Remark
208	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
209	* 3-359-427-01	SLIDER (LEVERSE SLIDER)	
210	3-359-420-01	GEAR (CAM GEAR)	
211	X-3359-405-1	LEVER (FR ARM) ASSY	
212	3-359-453-01	SPRING (FR ARM), TORSION	
213	3-359-419-01	GEAR (FR GEAR)	
214	3-359-421-01	CLUTCH (REEL DISK)	
215	3-359-418-01	PULLEY (FR PULLEY)	

MAIN**POWER AMP**

SECTION 5 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.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **SEMICONDUCTORS**
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- **CAPACITORS**
uF: μ F
- **COILS**
uH: μ H

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

- **Abbreviation**
G: Germany model
IT: Italian model
EE: East European model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	* A-4341-505-A	MAIN BOARD, COMPLETE (AEP, UK)		C323	1-161-329-00	CERAMIC	0.0068uF 30% 16V
	* A-4341-999-A	MAIN BOARD, COMPLETE (G, IT)		C324	1-161-329-00	CERAMIC	0.0068uF 30% 16V
	* A-4345-531-A	MAIN BOARD, COMPLETE (EE)		C325	1-124-477-11	ELECT	47uF 20% 25V
	* A-4341-508-A	POWER AMPLIFIER BOARD, COMPLETE (AEP, UK, EE)		C326	1-124-907-11	ELECT	10uF 20% 50V
	* A-4345-003-A	POWER AMPLIFIER BOARD, COMPLETE (G, IT)		C327	1-161-379-00	CERAMIC	0.01uF 20% 25V

	4-352-844-01	PIN, LEAD, COATING		C328	1-124-463-00	ELECT	0.1uF 20% 50V
	* 4-942-204-01	PLATE, GROUND		C329	1-124-927-11	ELECT	4.7uF 20% 100V
	7-682-548-04	SCREW +BVTT 3X8 (S)		C330	1-161-379-00	CERAMIC	0.01uF 20% 25V
	< CAPACITOR >			C331	1-126-176-11	ELECT	220uF 20% 10V
C301	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)	C332	1-161-379-00	CERAMIC	0.01uF 20% 25V
C302	1-124-477-11	ELECT	47uF 20% 25V	C333	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C303	1-161-379-00	CERAMIC	0.01uF 20% 25V	C335	1-161-379-00	CERAMIC	0.01uF 20% 25V
C305	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)	C336	1-161-379-00	CERAMIC	0.01uF 20% 25V
C306	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)	C339	1-162-210-31	CERAMIC	30PF 5% 50V
C307	1-161-379-00	CERAMIC	0.01uF 20% 25V	C341	1-123-382-00	ELECT	3.3uF 20% 100V
C308	1-161-379-00	CERAMIC	0.01uF 20% 25V	C342	1-123-382-00	ELECT	3.3uF 20% 100V
C309	1-161-379-00	CERAMIC	0.01uF 20% 25V	C343	1-123-382-00	ELECT	3.3uF 20% 100V
C310	1-124-477-11	ELECT	47uF 20% 25V	C344	1-123-382-00	ELECT	3.3uF 20% 100V
C311	1-161-379-00	CERAMIC	0.01uF 20% 25V	C345	1-161-375-00	CERAMIC	0.0022uF 20% 50V
C312	1-101-006-00	CERAMIC	0.047uF 50V	C346	1-161-375-00	CERAMIC	0.0022uF 20% 50V
C313	1-123-382-00	ELECT	3.3uF 20% 100V	C351	1-161-494-00	CERAMIC	0.022uF 25V
C314	1-161-379-00	CERAMIC	0.01uF 20% 25V	C352	1-102-120-00	CERAMIC	0.0018uF 10% 50V
C315	1-161-329-00	CERAMIC	0.0068uF 30% 16V	C353	1-161-374-11	CERAMIC	0.0015uF 20% 50V
C316	1-162-282-31	CERAMIC	100PF 10% 50V (AEP, UK, EE)	C354	1-161-494-00	CERAMIC	0.022uF 25V
C316	1-162-290-31	CERAMIC	470PF 10% 50V (G, IT)	C361	1-164-098-11	CERAMIC	0.047uF 12V
C317	1-162-292-31	CERAMIC	680PF 10% 50V (G, IT)	C362	1-161-494-00	CERAMIC	0.022uF 25V
C318	1-124-903-11	ELECT	1uF 20% 50V	C363	1-164-159-11	CERAMIC	0.1uF 50V
C320	1-124-903-11	ELECT	1uF 20% 50V	C364	1-161-494-00	CERAMIC	0.022uF 25V
C321	1-124-902-00	ELECT	0.47uF 20% 50V	C501	1-102-961-00	CERAMIC	27PF 5% 50V
C322	1-124-463-00	ELECT	0.1uF 20% 50V	C502	1-102-961-00	CERAMIC	27PF 5% 50V

POWER AMP

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C503	1-124-477-11	ELECT	47uF	20%	25V	C1104	1-124-907-11	ELECT	10uF	20%	50V
C504	1-161-379-00	CERAMIC	0.01uF	20%	25V	C1105	1-124-252-00	ELECT	0.33uF	20%	50V
C505	1-161-379-00	CERAMIC	0.01uF	20%	25V	C1106	1-136-160-00	FILM	0.039uF	5%	50V
C506	1-161-379-00	CERAMIC	0.01uF	20%	25V	C1107	1-124-477-11	ELECT	47uF	20%	25V
C507	1-161-379-00	CERAMIC	0.01uF	20%	25V	C1108	1-161-494-00	CERAMIC	0.022uF		25V
						C1120	1-162-294-31	CERAMIC	0.001uF	10%	50V
C521	1-124-925-11	ELECT	2.2uF	20%	100V	C1121	1-162-286-31	CERAMIC	220PF	10%	50V
C522	1-124-463-00	ELECT	0.1uF	20%	50V	C1122	1-124-907-11	ELECT	10uF	20%	50V
C523	1-161-379-00	CERAMIC	0.01uF	20%	25V	C1123	1-124-903-11	ELECT	1uF	20%	50V
C524	1-161-379-00	CERAMIC	0.01uF	20%	25V	C1124	1-136-163-00	FILM	0.068uF	5%	50V
C525	1-124-477-11	ELECT	47uF	20%	25V(AEP, G. IT, UK)	C1125	1-124-902-00	ELECT	0.47uF	20%	50V
C525	1-126-101-11	ELECT	100uF	20%	16V(EE)						
C530	1-161-379-00	CERAMIC	0.01uF	20%	25V	C1126	1-136-158-00	FILM	0.027uF	5%	50V
C531	1-136-173-00	FILM	0.47uF	5%	50V	C1127	1-136-168-00	FILM	0.18uF	5%	50V
C532	1-161-494-00	CERAMIC	0.022uF		25V	C1128	1-136-153-00	FILM	0.01uF	5%	50V
C533	1-124-463-00	ELECT	0.1uF	20%	50V	C1129	1-136-163-00	FILM	0.068uF	5%	50V
C1001	1-124-925-11	ELECT	2.2uF	20%	100V	C1130	1-130-478-00	MYLAR	0.0039uF	5%	50V
C1002	1-162-282-31	CERAMIC	100PF	10%	50V	C1131	1-136-159-00	FILM	0.033uF	5%	50V
C1003	1-162-282-31	CERAMIC	100PF	10%	50V	C1132	1-130-474-00	MYLAR	0.0018uF	5%	50V
C1004	1-124-477-11	ELECT	47uF	20%	25V	C1133	1-136-154-00	FILM	0.012uF	5%	50V
C1005	1-161-377-00	CERAMIC	0.0047uF	20%	16V	C1134	1-162-292-31	CERAMIC	680PF	10%	50V
C1006	1-161-374-11	CERAMIC	0.0015uF	20%	50V	C1135	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1007	1-124-464-11	ELECT	0.22uF	20%	50V	C1136	1-162-287-31	CERAMIC	270PF	10%	50V
C1008	1-124-477-11	ELECT	47uF	20%	25V	C1137	1-124-477-11	ELECT	47uF	20%	25V
C1009	1-124-477-11	ELECT	47uF	20%	25V	C1138	1-124-477-11	ELECT	47uF	20%	25V
C1010	1-124-925-11	ELECT	2.2uF	20%	100V	C1139	1-161-494-00	CERAMIC	0.022uF		25V
C1011	1-162-286-31	CERAMIC	220PF	10%	50V(G, IT)	C1140	1-161-494-00	CERAMIC	0.022uF		25V
C1012	1-124-925-11	ELECT	2.2uF	20%	100V	C1151	1-124-925-11	ELECT	2.2uF	20%	100V
C1013	1-162-290-31	CERAMIC	470PF	10%	50V(G, IT)	C1152	1-162-282-31	CERAMIC	100PF	10%	50V
C1014	1-161-494-00	CERAMIC	0.022uF		25V	C1153	1-162-282-31	CERAMIC	100PF	10%	50V
C1015	1-161-494-00	CERAMIC	0.022uF		25V	C1154	1-124-907-11	ELECT	10uF	20%	50V
C1016	1-162-286-31	CERAMIC	220PF	10%	50V(G, IT)	C1155	1-124-252-00	ELECT	0.33uF	20%	50V
C1051	1-124-925-11	ELECT	2.2uF	20%	100V	C1156	1-136-160-00	FILM	0.039uF	5%	50V
C1052	1-162-282-31	CERAMIC	100PF	10%	50V	C1157	1-124-477-11	ELECT	47uF	20%	25V
C1053	1-162-282-31	CERAMIC	100PF	10%	50V	C1158	1-161-494-00	CERAMIC	0.022uF		25V
C1054	1-124-477-11	ELECT	47uF	20%	25V	C1170	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1055	1-161-377-00	CERAMIC	0.0047uF	20%	16V	C1171	1-162-286-31	CERAMIC	220PF	10%	50V
C1056	1-161-374-11	CERAMIC	0.0015uF	20%	50V	C1172	1-124-907-11	ELECT	10uF	20%	50V
C1057	1-124-464-11	ELECT	0.22uF	20%	50V	C1173	1-124-903-11	ELECT	1uF	20%	50V
C1058	1-124-477-11	ELECT	47uF	20%	25V	C1174	1-136-163-00	FILM	0.068uF	5%	50V
C1059	1-124-477-11	ELECT	47uF	20%	25V	C1175	1-124-902-00	ELECT	0.47uF	20%	50V
C1060	1-124-925-11	ELECT	2.2uF	20%	100V	C1176	1-136-158-00	FILM	0.027uF	5%	50V
C1061	1-162-286-31	CERAMIC	220PF	10%	50V(G, IT)	C1177	1-136-168-00	FILM	0.18uF	5%	50V
C1062	1-124-925-11	ELECT	2.2uF	20%	100V	C1178	1-136-153-00	FILM	0.01uF	5%	50V
C1063	1-162-290-31	CERAMIC	470PF	10%	50V(G, IT)	C1179	1-136-163-00	FILM	0.068uF	5%	50V
C1064	1-161-494-00	CERAMIC	0.022uF		25V	C1180	1-130-478-00	MYLAR	0.0039uF	5%	50V
C1065	1-161-494-00	CERAMIC	0.022uF		25V	C1181	1-136-159-00	FILM	0.033uF	5%	50V
C1066	1-162-286-31	CERAMIC	220PF	10%	50V(G, IT)						
C1101	1-124-925-11	ELECT	2.2uF	20%	100V						
C1102	1-162-282-31	CERAMIC	100PF	10%	50V						
C1103	1-162-282-31	CERAMIC	100PF	10%	50V						

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POWER AMP

Ref. No.	Part No.	Description	Remark		
C1182	1-130-474-00	MYLAR	0.0018uF	5%	50V
C1183	1-136-154-00	FILM	0.012uF	5%	50V
C1184	1-162-292-31	CERAMIC	680PF	10%	50V
C1185	1-161-377-00	CERAMIC	0.0047uF	20%	16V
C1186	1-162-287-31	CERAMIC	270PF	10%	50V
C1187	1-124-477-11	ELECT	47uF	20%	25V
C1188	1-124-477-11	ELECT	47uF	20%	25V
C1189	1-161-494-00	CERAMIC	0.022uF		25V
C1201	1-124-925-11	ELECT	2.2uF	20%	100V
C1202	1-162-286-31	CERAMIC	220PF	10%	50V (AEP,UK,EE)
C1202	1-162-290-31	CERAMIC	470PF	10%	50V (G, IT)
C1203	1-162-286-31	CERAMIC	220PF	10%	50V (AEP,UK,EE)
C1203	1-162-290-31	CERAMIC	470PF	10%	50V (G, IT)
C1204	1-124-477-11	ELECT	47uF	20%	25V
C1205	1-124-910-11	ELECT	47uF	20%	50V
C1206	1-124-122-11	ELECT	100uF	20%	50V
C1207	1-136-165-00	FILM	0.1uF	5%	50V
C1208	1-126-233-11	ELECT	22uF	20%	50V
C1209	1-136-165-00	FILM	0.1uF	5%	50V
C1210	1-136-163-00	FILM	0.068uF	5%	50V
C1211	1-136-163-00	FILM	0.068uF	5%	50V
C1212	1-126-233-11	ELECT	22uF	20%	50V
C1213	1-126-233-11	ELECT	22uF	20%	50V
C1214	1-101-006-00	CERAMIC	0.047uF		50V
C1216	1-161-494-00	CERAMIC	0.022uF		25V (G, IT)
C1220	1-124-910-11	ELECT	47uF	20%	50V
C1221	1-126-101-11	ELECT	100uF	20%	16V
C1222	1-126-176-11	ELECT	220uF	20%	10V
C1223	1-126-176-11	ELECT	220uF	20%	10V
C1230	1-161-494-00	CERAMIC	0.022uF		25V (G, IT)
C1231	1-161-494-00	CERAMIC	0.022uF		25V (G, IT)
C1232	1-161-494-00	CERAMIC	0.022uF		25V (G, IT)
C1233	1-161-494-00	CERAMIC	0.022uF		25V (G, IT)
C1251	1-124-925-11	ELECT	2.2uF	20%	100V
C1252	1-162-286-31	CERAMIC	220PF	10%	50V (AEP,UK,EE)
C1252	1-162-290-31	CERAMIC	470PF	10%	50V (G, IT)
C1253	1-162-286-31	CERAMIC	220PF	10%	50V (AEP,UK,EE)
C1253	1-162-290-31	CERAMIC	470PF	10%	50V (G, IT)
C1254	1-124-477-11	ELECT	47uF	20%	25V
C1255	1-124-910-11	ELECT	47uF	20%	50V
C1256	1-124-122-11	ELECT	100uF	20%	50V
C1257	1-136-165-00	FILM	0.1uF	5%	50V
C1260	1-136-163-00	FILM	0.068uF	5%	50V
C1261	1-136-163-00	FILM	0.068uF	5%	50V
C1262	1-126-233-11	ELECT	22uF	20%	50V
C1263	1-126-233-11	ELECT	22uF	20%	50V
C1264	1-101-006-00	CERAMIC	0.047uF		50V

Ref. No.	Part No.	Description	Remark		
C1266	1-161-494-00	CERAMIC	0.022uF		25V (G, IT)
C1280	1-161-494-00	CERAMIC	0.022uF		25V (G, IT)
C1302	1-102-394-11	CERAMIC	0.01uF		250V
C1303	1-136-165-00	FILM	0.1uF	5%	50V
C1304	1-136-165-00	FILM	0.1uF	5%	50V
C1305	1-126-224-11	ELECT	4700uF	20%	42V
C1306	1-126-224-11	ELECT	4700uF	20%	42V
C1307	1-124-903-11	ELECT	1uF	20%	50V
C1308	1-102-394-11	CERAMIC	0.01uF		250V
C1309	1-124-122-11	ELECT	100uF	20%	50V
C1310	1-124-122-11	ELECT	100uF	20%	50V
C1311	1-126-105-11	ELECT	1000uF	20%	35V
C1312	1-126-101-11	ELECT	100uF	20%	16V
C1313	1-124-477-11	ELECT	47uF	20%	25V
C1314	1-124-122-11	ELECT	100uF	20%	50V
C1315	1-126-101-11	ELECT	100uF	20%	16V
C1317	1-124-563-11	ELECT	2200uF	20%	25V
C1318	1-124-563-11	ELECT	2200uF	20%	25V
C1319	1-124-907-11	ELECT	10uF	20%	50V
C1320	1-124-907-11	ELECT	10uF	20%	50V
C1325	1-126-103-11	ELECT	470uF	20%	16V
C1326	1-124-893-11	ELECT	2200uF	20%	10V
C1326	1-124-907-11	ELECT	10uF	20%	50V
C1328	1-124-893-11	ELECT	2200uF	20%	10V
C1346	1-124-477-11	ELECT	47uF	20%	25V
< FILTER >					
CF301	1-567-389-11	FILTER, CERAMIC			
CF302	1-567-389-11	FILTER, CERAMIC (G, IT)			
CF303	1-567-389-11	FILTER, CERAMIC			
CF304	1-577-075-11	OSCILLATOR, CERAMIC			
< CONNECTOR >					
CN501	* 1-568-830-11	SOCKET, CONNECTOR 11P			
CN1001	* 1-580-691-11	JACK, PIN 2P (PHONO)			
CN1002	* 1-580-912-11	JACK, PIN 4P (CD/VIDEO)			
CN1003	* 1-564-508-11	PLUG, CONNECTOR 5P			
CN1004	* 1-568-836-11	SOCKET, CONNECTOR 17P			
CN1201	* 1-569-130-11	JACK, PIN 2P (SURROUND)			
CN1203	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN1204	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN1302	* 1-566-210-11	PIN, CONNECTOR 3P			
CN1303	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN1304	* 1-568-934-11	PIN, CONNECTOR 7P			
CN1305	* 1-568-830-11	SOCKET, CONNECTOR 11P			
CN1306	1-568-802-11	SOCKET, CONNECTOR 19P			

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Ref. No.	Part No.	Description	Remark
		< COMPOSITION CIRCUIT BLOCK >	
CP1101	1-239-053-11	COMPOSITION CIRCUIT BLOCK	
CP1151	1-239-053-11	COMPOSITION CIRCUIT BLOCK	
		< DIODE >	
D351	8-719-987-63	DIODE 1N4148M	
D1201	8-719-987-63	DIODE 1N4148M	
D1202	8-719-987-63	DIODE 1N4148M	
D1203	8-719-987-63	DIODE 1N4148M	
D1204	8-719-987-63	DIODE 1N4148M	
D1251	8-719-987-63	DIODE 1N4148M	
D1303	8-719-987-63	DIODE 1N4148M	
D1304	8-719-987-63	DIODE 1N4148M	
D1305	8-719-312-09	DIODE RBA-402	
D1306	8-719-200-82	DIODE 11ES2	
D1307	8-719-200-82	DIODE 11ES2	
D1308	8-719-200-82	DIODE 11ES2	
D1309	8-719-200-82	DIODE 11ES2	
D1310	8-719-200-82	DIODE 11ES2	
D1311	8-719-200-82	DIODE 11ES2	
D1312	8-719-200-82	DIODE 11ES2	
D1313	8-719-200-82	DIODE 11ES2	
D1314	8-719-001-76	DIODE UZL-12M3	
D1315	8-719-200-82	DIODE 11ES2	
D1316	8-719-200-82	DIODE 11ES2	
D1331	8-719-200-82	DIODE 11ES2	
		< FRONT END >	
FE301	1-463-857-21	FRONT END (FM) (G, IT)	
FE301	1-465-006-11	FRONT END (FM) (2 GANG) (AEP, UK)	
FE351	1-236-463-11	ENCAPSULATED COMPONENT	
FE352	1-236-462-11	ENCAPSULATED COMPONENT	
		< IC >	
IC301	8-759-821-45	IC LA1851N	
IC501	8-759-820-91	IC LC7218	
IC1001	8-759-634-51	IC M5218AP	
IC1002	8-759-000-48	IC MC14052BCP	
IC1003	8-759-000-49	IC MC14066BCP	
IC1004	8-759-634-51	IC M5218AP	
IC1005	8-759-000-49	IC MC14066BCP	
IC1101	8-759-634-51	IC M5218AP	
IC1102	8-759-000-48	IC MC14052BCP	
IC1103	8-759-000-48	IC MC14052BCP	
IC1104	8-759-804-49	IC LC7522	
IC1105	8-759-633-78	IC M5289P	
IC1155	8-759-633-78	IC M5289P	
IC1201	8-749-900-96	IC STK4142MK2	

Ref. No.	Part No.	Description	Remark
IC1202	8-759-111-68	IC uPC1237HA	
IC1301	8-759-604-33	IC M5F7812L	
IC1302	8-759-604-86	IC M5F7807	
IC1303	8-759-604-90	IC M5F7907	
IC1304	8-759-604-29	IC M5F7805L	
		< TRANSFORMER >	
IFT301	1-404-713-11	TRANSFORMER, IF	
		< COIL >	
L301	1-407-500-00	INDUCTOR 4.7mH	
L351	1-410-524-41	INDUCTOR 220uH	
L1201	* 1-420-872-00	COIL, AIR CORE	
L1251	* 1-420-872-00	COIL, AIR CORE	
L1301	1-408-117-00	INDUCTOR 10uH (G, IT)	
L1302	1-408-117-00	INDUCTOR 10uH (G, IT)	
		< FILTER >	
LPF301	1-235-164-00	FILTER, LOW PASS	
LPF302	1-235-164-00	FILTER, LOW PASS	
		< TRANSISTOR >	
Q301	8-729-230-XX	TRANSISTOR 2SC2669-0Y (G, IT)	
Q302	8-729-230-XX	TRANSISTOR 2SC2669-0Y (G, IT)	
Q303	8-729-230-XX	TRANSISTOR 2SC2669-0Y	
Q304	8-729-230-XX	TRANSISTOR 2SC2669-0Y	
Q305	8-729-900-80	TRANSISTOR DTC114ES	
Q306	8-729-900-61	TRANSISTOR DTA114ES	
Q307	8-729-900-80	TRANSISTOR DTC114ES	
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q309	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-900-80	TRANSISTOR DTC114ES	
Q352	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q353	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q354	8-729-900-80	TRANSISTOR DTC114ES	
Q355	8-729-900-80	TRANSISTOR DTC114ES	
Q356	8-729-900-80	TRANSISTOR DTC114ES	
Q501	8-729-900-80	TRANSISTOR DTC114ES	
Q502	8-729-900-61	TRANSISTOR DTA114ES	
Q521	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q522	8-729-201-84	TRANSISTOR 2SC3112-B	
Q531	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q532	8-729-201-84	TRANSISTOR 2SC3112-B	
Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1004	8-729-900-36	TRANSISTOR DTC124ES	
Q1005	8-729-119-76	TRANSISTOR 2SA1175-HFE	

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Ref. No.	Part No.	Description	Remark
Q1006	8-729-900-36	TRANSISTOR DTC124ES	
Q1101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1151	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1201	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q1202	8-729-900-80	TRANSISTOR DTC114ES	
Q1203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1204	8-729-900-63	TRANSISTOR DTA124ES	
Q1251	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q1301	8-729-209-15	TRANSISTOR 2SD2012	
< RESISTOR >			
R301	△ 1-249-401-11	CARBON 47 5% 1/4W	
R302	1-249-413-11	CARBON 470 5% 1/4W	
R303	1-249-411-11	CARBON 330 5% 1/4W (G, IT)	
R304	1-249-432-11	CARBON 18K 5% 1/4W (G, IT)	
R305	1-249-411-11	CARBON 330 5% 1/4W (G, IT)	
R306	1-249-434-11	CARBON 27K 5% 1/4W (G, IT)	
R307	1-249-414-11	CARBON 560 5% 1/4W (G, IT)	
R308	1-249-411-11	CARBON 330 5% 1/4W	
R309	1-249-432-11	CARBON 18K 5% 1/4W	
R310	1-249-411-11	CARBON 330 5% 1/4W	
R311	1-249-434-11	CARBON 27K 5% 1/4W	
R312	1-249-414-11	CARBON 560 5% 1/4W (AEP, UK, EE)	
R312	1-249-416-11	CARBON 820 5% 1/4W (G, IT)	
R313	△ 1-249-405-11	CARBON 100 5% 1/4W	
R314	1-249- -11	CARBON 47K 5% 1/4W (G, IT)	
R315A	1-249-435-11	CARBON 33K 5% 1/4W (G, IT)	
R315B	△ 1-249-404-00	CARBON 82 5% 1/4W	
R316	1-249-429-11	CARBON 10K 5% 1/4W	
R317	1-249-417-11	CARBON 1K 5% 1/4W	
R318	1-249-435-11	CARBON 33K 5% 1/4W	
R319	1-249-428-11	CARBON 8.2K 5% 1/4W	
R320	1-249-432-11	CARBON 18K 5% 1/4W	
R321	1-249-423-11	CARBON 3.3K 5% 1/4W	
R322	1-249-429-11	CARBON 10K 5% 1/4W	
R323	1-249-418-11	CARBON 1.2K 5% 1/4W (AEP, UK, EE)	
R323	1-249-417-11	CARBON 1K 5% 1/4W (G, IT)	
R324	1-249-429-11	CARBON 10K 5% 1/4W	
R325	1-249-429-11	CARBON 10K 5% 1/4W	
R326	△ 1-249-409-11	CARBON 220 5% 1/4W	
R327	1-249-437-11	CARBON 47K 5% 1/4W	
R328	1-249-437-11	CARBON 47K 5% 1/4W	
R331	1-247-891-00	CARBON 330K 5% 1/4W	
R332	1-247-891-00	CARBON 330K 5% 1/4W	
R333	1-249-421-11	CARBON 2.2K 5% 1/4W	
R334	1-249-421-11	CARBON 2.2K 5% 1/4W	
R335	1-249-420-11	CARBON 1.8K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R336	1-249-420-11	CARBON 1.8K 5% 1/4W	
R337	1-249-426-11	CARBON 5.6K 5% 1/4W	
R338	1-249-426-11	CARBON 5.6K 5% 1/4W	
R351	1-249-433-11	CARBON 22K 5% 1/4W	
R352	1-249-437-11	CARBON 47K 5% 1/4W	
R353	1-247-903-00	CARBON 1M 5% 1/4W	
R354	1-249-441-11	CARBON 100K 5% 1/4W	
R355	1-249-433-11	CARBON 22K 5% 1/4W	
R356	1-249-421-11	CARBON 2.2K 5% 1/4W	
R361	1-249-437-11	CARBON 47K 5% 1/4W	
R362	1-249-437-11	CARBON 47K 5% 1/4W	
R363	1-249-425-11	CARBON 4.7K 5% 1/4W	
R364	1-249-425-11	CARBON 4.7K 5% 1/4W	
R365	1-249-429-11	CARBON 10K 5% 1/4W	
R366	1-249-413-11	CARBON 470 5% 1/4W	
R367	1-249-434-11	CARBON 27K 5% 1/4W	
R368	1-249-433-11	CARBON 22K 5% 1/4W	
R501	1-249-417-11	CARBON 1K 5% 1/4W	
R502	1-249-417-11	CARBON 1K 5% 1/4W	
R503	1-249-417-11	CARBON 1K 5% 1/4W	
R504	1-249-417-11	CARBON 1K 5% 1/4W	
R505	1-249-429-11	CARBON 10K 5% 1/4W	
R506	1-249-417-11	CARBON 1K 5% 1/4W	
R510	△ 1-249-401-11	CARBON 47 5% 1/4W	
R511	1-249-429-11	CARBON 10K 5% 1/4W	
R512	1-249-425-11	CARBON 4.7K 5% 1/4W	
R513	1-249-417-11	CARBON 1K 5% 1/4W	
R514	1-249-429-11	CARBON 10K 5% 1/4W	
R515	1-249-417-11	CARBON 1K 5% 1/4W	
R521	1-249-423-11	CARBON 3.3K 5% 1/4W	
R522	1-249-425-11	CARBON 4.7K 5% 1/4W	
R523	1-249-414-11	CARBON 560 5% 1/4W	
R524	1-249-417-11	CARBON 1K 5% 1/4W	
R525	1-249-410-11	CARBON 270 5% 1/4W	
R526	1-249-421-11	CARBON 2.2K 5% 1/4W	
R527	1-249-425-11	CARBON 4.7K 5% 1/4W	
R528	1-249-425-11	CARBON 4.7K 5% 1/4W	
R529	1-249-405-11	CARBON 100 5% 1/4W	
R530	△ 1-249-405-11	CARBON 100 5% 1/4W	
R531	1-249-423-11	CARBON 3.3K 5% 1/4W	
R532	1-249-433-11	CARBON 22K 5% 1/4W	
R533	1-249-414-11	CARBON 560 5% 1/4W	
R534	1-249-417-11	CARBON 1K 5% 1/4W	
R535	1-249-410-11	CARBON 270 5% 1/4W	
R536	1-249-421-11	CARBON 2.2K 5% 1/4W	
R537	1-249-425-11	CARBON 4.7K 5% 1/4W	
R538	1-249-405-11	CARBON 100 5% 1/4W	
R1001	1-249-417-11	CARBON 1K 5% 1/4W (G, IT)	
R1002	1-249-417-11	CARBON 1K 5% 1/4W	

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

POWER AMP**MAIN**

Ref. No.	Part No.	Description	Remark
R1003	1-249-441-11	CARBON	100K 5% 1/4W
R1004	1-249-416-11	CARBON	820 5% 1/4W
R1005	1-247-897-11	CARBON	560K 5% 1/4W
R1006	1-249-437-11	CARBON	47K 5% 1/4W
R1007	1-249-409-11	CARBON	220 5% 1/4W
R1008	1-249-441-11	CARBON	100K 5% 1/4W
R1009	1-249-409-11	CARBON	220 5% 1/4W
R1010	1-249-421-11	CARBON	2.2K 5% 1/4W
R1011	1-249-428-11	CARBON	8.2K 5% 1/4W
R1012	1-249-417-11	CARBON	1K 5% 1/4W
R1013	1-249-441-11	CARBON	100K 5% 1/4W
R1014	1-249-437-11	CARBON	47K 5% 1/4W
R1016	1-249-437-11	CARBON	47K 5% 1/4W
R1017	1-249-434-11	CARBON	27K 5% 1/4W
R1018	1-249-429-11	CARBON	10K 5% 1/4W
R1020	1-249-433-11	CARBON	22K 5% 1/4W
R1021	1-249-433-11	CARBON	22K 5% 1/4W
R1022	1-249-433-11	CARBON	22K 5% 1/4W
R1023	1-249-433-11	CARBON	22K 5% 1/4W
R1024	1-249-433-11	CARBON	22K 5% 1/4W
R1025	1-249-433-11	CARBON	22K 5% 1/4W
R1026	1-249-433-11	CARBON	22K 5% 1/4W
R1029	1-249-433-11	CARBON	22K 5% 1/4W
R1030	1-249-433-11	CARBON	22K 5% 1/4W
R1031	1-249-433-11	CARBON	22K 5% 1/4W
R1032	1-249-433-11	CARBON	22K 5% 1/4W
R1051	1-249-417-11	CARBON	1K 5% 1/4W (G, IT)
R1052	1-249-417-11	CARBON	1K 5% 1/4W
R1053	1-249-441-11	CARBON	100K 5% 1/4W
R1054	1-249-416-11	CARBON	820 5% 1/4W
R1055	1-247-897-11	CARBON	560K 5% 1/4W
R1056	1-249-437-11	CARBON	47K 5% 1/4W
R1057	1-249-409-11	CARBON	220 5% 1/4W
R1058	1-249-441-11	CARBON	100K 5% 1/4W
R1059	1-249-409-11	CARBON	220 5% 1/4W
R1060	1-249-421-11	CARBON	2.2K 5% 1/4W
R1061	1-249-428-11	CARBON	8.2K 5% 1/4W
R1062	1-249-417-11	CARBON	1K 5% 1/4W
R1063	1-249-441-11	CARBON	100K 5% 1/4W
R1064	1-249-437-11	CARBON	47K 5% 1/4W
R1066	1-249-437-11	CARBON	47K 5% 1/4W
R1067	1-249-434-11	CARBON	27K 5% 1/4W
R1068	1-249-429-11	CARBON	10K 5% 1/4W
R1101	1-249-441-11	CARBON	100K 5% 1/4W
R1102	1-249-417-11	CARBON	1K 5% 1/4W
R1103	1-249-441-11	CARBON	100K 5% 1/4W
R1104	1-249-429-11	CARBON	10K 5% 1/4W

Ref. No.	Part No.	Description	Remark
R1105	1-249-427-11	CARBON	6.8K 5% 1/4W
R1106	1-249-412-11	CARBON	390 5% 1/4W
R1107	1-249-423-11	CARBON	3.3K 5% 1/4W
R1108	1-249-441-11	CARBON	100K 5% 1/4W
R1109	1-249-427-11	CARBON	6.8K 5% 1/4W
R1110	1-249-441-11	CARBON	100K 5% 1/4W
R1111	1-249-431-11	CARBON	15K 5% 1/4W
R1112	1-249-423-11	CARBON	3.3K 5% 1/4W
R1113	1-249-429-11	CARBON	10K 5% 1/4W
R1114	1-249-435-11	CARBON	33K 5% 1/4W
R1115	1-249-432-11	CARBON	18K 5% 1/4W
R1116	1-249-433-11	CARBON	22K 5% 1/4W
R1117	1-249-433-11	CARBON	22K 5% 1/4W
R1118	1-249-433-11	CARBON	22K 5% 1/4W
R1119	1-249-433-11	CARBON	22K 5% 1/4W
R1120	1-249-427-11	CARBON	6.8K 5% 1/4W
R1127	1-249-417-11	CARBON	1K 5% 1/4W
R1128	1-249-417-11	CARBON	1K 5% 1/4W
R1130	1-249-441-11	CARBON	100K 5% 1/4W
R1151	1-249-441-11	CARBON	100K 5% 1/4W
R1152	1-249-417-11	CARBON	1K 5% 1/4W
R1153	1-249-441-11	CARBON	100K 5% 1/4W
R1154	1-249-429-11	CARBON	10K 5% 1/4W
R1155	1-249-427-11	CARBON	6.8K 5% 1/4W
R1156	1-249-412-11	CARBON	390 5% 1/4W
R1157	1-249-423-11	CARBON	3.3K 5% 1/4W
R1158	1-249-441-11	CARBON	100K 5% 1/4W
R1159	1-249-427-11	CARBON	6.8K 5% 1/4W
R1160	1-249-441-11	CARBON	100K 5% 1/4W
R1161	1-249-431-11	CARBON	15K 5% 1/4W
R1162	1-249-423-11	CARBON	3.3K 5% 1/4W
R1170	1-249-427-11	CARBON	6.8K 5% 1/4W
R1180	1-249-441-11	CARBON	100K 5% 1/4W
R1201	1-249-417-11	CARBON	1K 5% 1/4W
R1202	1-249-438-11	CARBON	56K 5% 1/4W
R1203	1-249-414-11	CARBON	560 5% 1/4W
R1204	1-249-438-11	CARBON	56K 5% 1/4W
R1205	1-249-425-11	CARBON	4.7K 5% 1/4W
R1206	1-249-425-11	CARBON	4.7K 5% 1/4W
R1207	1-249-425-11	CARBON	4.7K 5% 1/4W
R1208	1-249-425-11	CARBON	4.7K 5% 1/4W
R1209	△ 1-212-881-11	FUSIBLE	100 5% 1/4W F
R1210	△ 1-217-151-00	RES. METAL PLATE	0.22
R1211	1-249-417-11	CARBON	1K 5% 1/4W
R1212	1-249-431-11	CARBON	15K 5% 1/4W
R1213	1-249-441-11	CARBON	100K 5% 1/4W
R1214	1-249-421-11	CARBON	2.2K 5% 1/4W
R1215	1-249-421-11	CARBON	2.2K 5% 1/4W
R1216	1-249-421-11	CARBON	2.2K 5% 1/4W

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

MAIN

POWER AMP

MD-A

Ref. No.	Part No.	Description	Remark		
R1217	1-249-421-11	CARBON	2.2K	5%	1/4W
R1218	1-249-397-11	CARBON	22	5%	1/4W
R1219	1-249-397-11	CARBON	22	5%	1/4W
R1220	1-249-397-11	CARBON	22	5%	1/4W
R1221	1-249-397-11	CARBON	22	5%	1/4W
R1222	1-249-416-11	CARBON	820	5%	1/4W
R1223	1-249-416-11	CARBON	820	5%	1/4W
R1224	1-249-385-11	CARBON	2.2	5%	1/6W (G, IT)
R1225	1-249-385-11	CARBON	2.2	5%	1/6W (G, IT)
R1226	△ 1-215-915-11	METAL OXIDE	470	5%	3W F
R1227	1-249-429-11	CARBON	10K	5%	1/4W
R1228	1-247-881-00	CARBON	120K	5%	1/4W
R1229	1-249-439-11	CARBON	68K	5%	1/4W
R1230	1-249-439-11	CARBON	68K	5%	1/4W
R1231	1-249-417-11	CARBON	1K	5%	1/4W
R1232	1-249-428-11	CARBON	8.2K	5%	1/4W
R1233	1-249-433-11	CARBON	22K	5%	1/4W
R1234	1-249-433-11	CARBON	22K	5%	1/4W
R1235	1-249-437-11	CARBON	47K	5%	1/4W
R1236	1-249-441-11	CARBON	100K	5%	1/4W
R1237	1-249-429-11	CARBON	10K	5%	1/4W
R1238	1-249-433-11	CARBON	22K	5%	1/4W
R1239	1-249-426-11	CARBON	5.6K	5%	1/4W
R1240	1-249-438-11	CARBON	56K	5%	1/4W
R1251	1-249-417-11	CARBON	1K	5%	1/4W
R1252	1-249-438-11	CARBON	56K	5%	1/4W
R1253	1-249-414-11	CARBON	560	5%	1/4W
R1254	1-249-438-11	CARBON	56K	5%	1/4W
R1255	1-249-425-11	CARBON	4.7K	5%	1/4W
R1256	1-249-425-11	CARBON	4.7K	5%	1/4W
R1257	1-249-425-11	CARBON	4.7K	5%	1/4W
R1258	1-249-425-11	CARBON	4.7K	5%	1/4W
R1259	△ 1-212-881-11	FUSIBLE	100	5%	1/4W F
R1260	△ 1-217-151-00	RES, METAL PLATE	0.22		
R1261	1-249-417-11	CARBON	1K	5%	1/4W
R1262	1-249-431-11	CARBON	15K	5%	1/4W
R1263	1-249-441-11	CARBON	100K	5%	1/4W
R1268	1-249-397-11	CARBON	22	5%	1/4W
R1269	1-249-397-11	CARBON	22	5%	1/4W
R1270	1-249-397-11	CARBON	22	5%	1/4W
R1271	1-249-397-11	CARBON	22	5%	1/4W
R1272	1-249-416-11	CARBON	820	5%	1/4W
R1273	1-249-416-11	CARBON	820	5%	1/4W
R1274	1-249-385-11	CARBON	2.2	5%	1/6W (G, IT)
R1275	1-249-385-11	CARBON	2.2	5%	1/6W (G, IT)
R1290	1-249-437-11	CARBON	47K	5%	1/4W
R1301	1-249-429-11	CARBON	10K	5%	1/4W
R1302	1-249-429-11	CARBON	10K	5%	1/4W
R1303	1-249-421-11	CARBON	2.2K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
		< VARIABLE RESISTOR >			
RV301	1-238-601-11	RES, ADJ, CARBON, 22K			
RV302	1-238-601-11	RES, ADJ, CARBON, 22K			
		< RELAY >			
RY1201	1-515-533-11	RELAY			
		< TRANSFORMER >			
T301	1-404-807-11	TRANSFORMER, DISCRIMINATOR			
T302	1-235-126-00	ENCAPSULATED COMPONENT (G, IT)			
		< TERMINAL >			
TM301	* 1-537-288-11	TERMINAL BOARD (PAL) (ANTENNA)			
TM1201	* 1-537-326-11	TERMINAL BOARD (SPEAKER) (AEP, UK, EE)			
TM1201	* 1-537-327-11	TERMINAL BOARD (SPEAKER) (G, IT)			
		< TEST PIN >			
TP1	* 1-560-060-00	PIN, CONNECTOR 2P			
		< CRYSTAL >			
XT501	1-577-126-11	VIBRATOR, CRYSTAL			

	* 1-638-019-11	MD-A BOARD			

		< CAPACITOR >			
C11	1-162-289-31	CERAMIC	390PF	10%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-282-00	ELECT	22uF	20%	25V
C21	1-162-289-31	CERAMIC	390PF	10%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-282-00	ELECT	22uF	20%	25V
C31	1-124-443-00	ELECT	100uF	20%	10V
C32	1-124-443-00	ELECT	100uF	20%	10V
C71	1-124-261-00	ELECT	10uF	20%	50V
C72	1-124-261-00	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN71	* 1-580-782-11	SOCKET, CONNECTOR			
CNP32	* 1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP72	* 1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P			
		< IC >			
IC31	8-759-111-44	IC uPC4570C-1			

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

MD-B

LEAF SW (DECK A)

MD-A

Ref. No.	Part No.	Description	Remark
< TRANSISTOR >			
Q71	8-729-119-76	TRANSISTOR 2SA1175-HFE	
< RESISTOR >			
R11	1-247-881-00	CARBON 120K 5% 1/4W	
R12	1-249-405-11	CARBON 100 5% 1/4W	
R13	1-247-882-11	CARBON 130K 5% 1/4W	
R14	1-249-426-11	CARBON 5.6K 5% 1/4W	
R21	1-247-881-00	CARBON 120K 5% 1/4W	
R22	1-249-405-11	CARBON 100 5% 1/4W	
R23	1-247-882-11	CARBON 130K 5% 1/4W	
R24	1-249-426-11	CARBON 5.6K 5% 1/4W	
R31	1-249-409-11	CARBON 220 5% 1/4W	
R32	1-249-409-11	CARBON 220 5% 1/4W	
R71	1-247-864-11	CARBON 24K 5% 1/4W	
R72	1-249-433-11	CARBON 22K 5% 1/4W	
R73	1-249-437-11	CARBON 47K 5% 1/4W	
R74	1-249-437-11	CARBON 47K 5% 1/4W	
< VARIABLE RESISTOR >			
RV11	1-238-012-11	RES. ADJ. CARBON 1K	
RV21	1-238-012-11	RES. ADJ. CARBON 1K	
RV71	1-238-016-11	RES. ADJ. CARBON 10K	
RV72	1-238-016-11	RES. ADJ. CARBON 10K	

* 1-638-020-11 LEAF SW BOARD (DECK A)			

3-343-419-01 HOLDER (S SENSER A)			
< CONNECTOR >			
CNP81	* 1-568-850-11	SOCKET, CONNECTOR 7P	
< IC >			
IC81	8-719-710-03	IC PHOTO REFLECTOR NJL5165K-B	
< RESISTOR >			
R84	1-249-417-11	CARBON 1K 5% 1/4W	
R85	1-249-408-11	CARBON 180 5% 1/4W	
< SWITCH >			
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)	
S82	1-571-281-21	SWITCH, LEAF (70u)	
S86	1-571-281-21	SWITCH, LEAF (HALF)	

Ref. No.	Part No.	Description	Remark
* A-2006-446-A MD-8 BOARD, COMPLETE			

< CAPACITOR >			
C11	1-162-289-31	CERAMIC 390PF 10% 50V	
C12	1-136-157-00	FILM 0.022uF 5% 50V	
C13	1-124-282-00	ELECT 22uF 20% 25V	
C14	1-136-273-91	FILM 75PF 5% 630V	
C15	1-162-288-31	CERAMIC 330PF 10% 50V	
C17	1-162-209-31	CERAMIC 27PF 5% 50V	
C21	1-162-289-31	CERAMIC 390PF 10% 50V	
C22	1-136-157-00	FILM 0.022uF 5% 50V	
C23	1-124-282-00	ELECT 22uF 20% 25V	
C24	1-136-273-91	FILM 75PF 5% 630V	
C25	1-162-288-31	CERAMIC 330PF 10% 50V	
C27	1-162-209-31	CERAMIC 27PF 5% 50V	
C31	1-124-589-11	ELECT 47uF 20% 16V	
C32	1-124-589-11	ELECT 47uF 20% 16V	
C33	1-124-119-00	ELECT 330uF 20% 16V	
C51	1-130-729-00	FILM 0.0027uF 5% 100V	
C52	1-130-729-00	FILM 0.0027uF 5% 100V	
C53	1-130-339-00	FILM 0.0056uF 5% 100V	
C54	1-136-562-11	FILM 0.0082uF 5% 630V	
C55	1-161-494-00	CERAMIC 0.022uF 25V	
C56	1-124-261-00	ELECT 10uF 20% 50V	
C57	1-126-301-11	ELECT 1uF 20% 50V	
C58	1-162-282-31	CERAMIC 100PF 10% 50V	
C71	1-124-261-00	ELECT 10uF 20% 50V	
C72	1-124-261-00	ELECT 10uF 20% 50V	
< CONNECTOR >			
CN71	* 1-580-782-11	SOCKET, CONNECTOR	
CN72	* 1-580-782-11	SOCKET, CONNECTOR	
CNP32	* 1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P	
CNP72	* 1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P	
< DIODE >			
D31	8-719-987-63	DIODE 11ES2	
< IC >			
IC31	8-759-111-44	IC uPC4570C-1	
< COIL >			
L11	1-410-780-11	INDUCTOR 27mH	
L21	1-410-780-11	INDUCTOR 27mH	

MD-B**LEAF SW (DECK B)****PANEL****H.P****VOL**

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q51	8-729-194-57	TRANSISTOR 2SC945-P	
Q52	8-729-194-57	TRANSISTOR 2SC945-P	
Q53	8-729-111-29	TRANSISTOR 2SD1616A-K	
Q71	8-729-119-76	TRANSISTOR 2SA1175-HFE	

		< RESISTOR >	
R11	1-247-881-00	CARBON 120K 5% 1/4W	
R12	1-249-405-11	CARBON 100 5% 1/4W	
R13	1-247-882-11	CARBON 130K 5% 1/4W	
R14	1-249-426-11	CARBON 5.6K 5% 1/4W	
R15	1-249-430-11	CARBON 12K 5% 1/4W	
R21	1-247-881-00	CARBON 120K 5% 1/4W	
R22	1-249-405-11	CARBON 100 5% 1/4W	
R23	1-247-882-11	CARBON 130K 5% 1/4W	
R24	1-249-426-11	CARBON 5.6K 5% 1/4W	
R25	1-249-430-11	CARBON 12K 5% 1/4W	
R31	1-249-409-11	CARBON 220 5% 1/4W	
R32	1-249-409-11	CARBON 220 5% 1/4W	
R51	1-249-435-11	CARBON 33K 5% 1/4W	
R52	1-249-435-11	CARBON 33K 5% 1/4W	
R53	1-249-429-11	CARBON 10K 5% 1/4W	
R54	1-212-849-00	FUSIBLE 4.7 5% 1/4W F	
R71	1-247-864-11	CARBON 24K 5% 1/4W	
R72	1-249-433-11	CARBON 22K 5% 1/4W	
R73	1-249-437-11	CARBON 47K 5% 1/4W	
R74	1-249-437-11	CARBON 47K 5% 1/4W	

		< VARIABLE RESISTOR >	
RV11	1-238-012-11	RES. ADJ. CARBON 1K	
RV12	1-230-500-11	RES. ADJ. CARBON 220K	
RV21	1-238-012-11	RES. ADJ. CARBON 1K	
RV22	1-230-500-11	RES. ADJ. CARBON 220K	
RV71	1-238-016-11	RES. ADJ. CARBON 10K	
RV72	1-238-016-11	RES. ADJ. CARBON 10K	

		< RELAY >	
RY31	1-515-614-11	RELAY	

		< TRANSFORMER >	
T51	1-433-337-11	TRANSFORMER, BIAS OSCILLATION	

* 1-638-020-11 LEAF SW BOARD (DECK B)

3-343-419-01 HOLDER (S SENSER A)

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CNP81	* 1-568-850-11	SOCKET, CONNECTOR 7P	
		< IC >	
IC81	8-719-710-03	PHOTO REFLECTOR NJL5165K-B	

		< RESISTOR >	
R81	1-249-414-11	CARBON 560 5% 1/4W	
R82	1-247-818-11	CARBON 300 5% 1/4W	
R83	1-247-834-11	CARBON 1.3K 5% 1/4W	
R84	1-249-417-11	CARBON 1K 5% 1/4W	
R85	1-249-408-11	CARBON 180 5% 1/4W	

		< SWITCH >	
S81	1-571-958-11	SWITCH, PUSH (1 KEY)	
S82	1-571-281-21	SWITCH, LEAF	
S84	1-571-281-21	SWITCH, LEAF	
S85	1-571-281-21	SWITCH, LEAF	
S86	1-571-281-21	SWITCH, LEAF	

* A-4345-533-A PANEL BOARD, COMPLETE (EE)
* A-4341-509-A PANEL BOARD, COMPLETE (AEP, UK)
* A-4345-004-A PANEL BOARD, COMPLETE (G)
* A-4345-007-A PANEL BOARD, COMPLETE (IT).

* 1-638-303-11 HP BOARD

* 1-638-304-11 VOL BOARD

* 4-921-941-01 CUSHION (FL)
* 4-930-781-11 HOLDER (VQ), LED
* 4-942-301-01 HOLDER, FL TUBE
* 4-943-499-01 HOLDER (A) (EQ), LED
* 4-943-500-01 HOLDER (B) (EQ), LED

* 4-943-501-01 HOLDER (4 GANG), LED.

		< CAPACITOR >	
C603	1-136-169-00	FILM 0.22uF 5% 50V	
C604	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C605	1-125-486-11	DUBLE LAYERS 0.22F 5.5V	
C606	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C607	1-124-907-11	ELECT 10uF 20% 50V	
C608	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C609	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C610	1-102-961-00	CERAMIC 27PF 5% 50V (AEP, UK, G.EE)	
C610	1-102-960-00	CERAMIC 24PF 5% 50V (IT)	

VOL

H.P

PANEL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C611	1-162-206-31	CERAMIC	20PF 5% 50V (AEP,UK,G.EE)	D617	8-719-987-63	DIODE 1N4148M	
C611	1-162-961-31	CERAMIC	27PF 5% 50V (IT)	D621	8-719-987-63	DIODE 1N4148M (IT, EE)	
				D624	8-719-987-63	DIODE 1N4148M (EE)	
C1141	1-161-379-00	CERAMIC	0.01uF 20% 25V	D625	8-719-987-63	DIODE 1N4148M	
C1217	1-162-286-31	CERAMIC	220PF 10% 50V (G, IT)	D626	8-719-987-63	DIODE 1N4148M	
C1234	1-161-494-00	CERAMIC	0.022uF 25V (G, IT)	D627	8-719-987-63	DIODE 1N4148M	
C1267	1-162-286-31	CERAMIC	220PF 10% 50V (G, IT)	D631	8-719-987-63	DIODE 1N4148M	
C1401	1-136-165-00	FILM	0.1uF 5% 50V	D1401	8-719-987-63	DIODE 1N4148M	
				D1402	8-719-987-63	DIODE 1N4148M	
C1402	1-162-306-11	CERAMIC	0.01uF 20% 16V	D1403	8-719-987-63	DIODE 1N4148M	
C1403	1-126-101-11	ELECT	100uF 20% 16V	D1404	8-719-987-63	DIODE 1N4148M	
C1404	1-161-494-00	CERAMIC	0.022uF 25V				
C1405	1-125-486-11	DUBLE LAYERS	0.22F 5.5V	D1405	8-719-987-63	DIODE 1N4148M	
C1406	1-124-907-11	ELECT	10uF 20% 50V	D1406	8-719-987-63	DIODE 1N4148M	
				D1407	8-719-987-63	DIODE 1N4148M	
C1407	1-124-907-11	ELECT	10uF 20% 50V	D1408	8-719-987-63	DIODE 1N4148M	
C1408	1-161-374-11	CERAMIC	0.0015uF 20% 50V	D1409	8-719-987-63	DIODE 1N4148M	
C1409	1-161-494-00	CERAMIC	0.022uF 25V				
C1410	1-126-101-11	ELECT	100uF 20% 16V	D1410	8-719-987-63	DIODE 1N4148M	
C1411	1-161-494-00	CERAMIC	0.022uF 25V	D1411	8-719-987-63	DIODE 1N4148M	
				D1412	8-719-933-36	DIODE HZS6B1L	
C1412	1-124-907-11	ELECT	10uF 20% 50V	D1413	8-719-933-36	DIODE HZS6B1L	
C1413	1-161-494-00	CERAMIC	0.022uF 25V	D1414	8-719-987-63	DIODE 1N4148M	
C1414	1-124-907-11	ELECT	10uF 20% 50V				
C1415	1-162-294-31	CERAMIC	0.001uF 10% 50V	D1415	8-719-987-63	DIODE 1N4148M	
				D1416	8-719-987-63	DIODE 1N4148M	
				D1417	8-719-987-63	DIODE 1N4148M	
				D1418	8-719-987-63	DIODE 1N4148M	
				D1419	8-719-987-63	DIODE 1N4148M	
				D1420	8-719-987-63	DIODE 1N4148M	
				D1421	8-719-301-38	DIODE SEL2210S-C	
				D1422	8-719-301-38	DIODE SEL2210S-C	
				D1423	8-719-301-38	DIODE SEL2210S-C	
				D1424	8-719-301-38	DIODE SEL2210S-C	
				D1425	8-719-301-38	DIODE SEL2210S-C	
				D1426	8-719-301-38	DIODE SEL2210S-C	
				D1427	8-719-301-38	DIODE SEL2210S-C	
				D1428	8-719-301-38	DIODE SEL2210S-C	
				D1429	8-719-301-38	DIODE SEL2210S-C	
				D1430	8-719-301-38	DIODE SEL2210S-C	
				D1431	8-719-301-38	DIODE SEL2210S-C	
				D1432	8-719-301-38	DIODE SEL2210S-C	
				D1433	8-719-301-38	DIODE SEL2210S-C	
				D1434	8-719-301-38	DIODE SEL2210S-C	
				D1435	8-719-301-38	DIODE SEL2210S-C	
				D1436	8-719-301-38	DIODE SEL2210S-C	
				D1437	8-719-301-38	DIODE SEL2210S-C	
				D1438	8-719-301-38	DIODE SEL2210S-C	
				D1439	8-719-301-38	DIODE SEL2210S-C	
				D1440	8-719-301-38	DIODE SEL2210S-C	
				D1441	8-719-301-38	DIODE SEL2210S-C	
				D1442	8-719-301-38	DIODE SEL2210S-C	
				D1443	8-719-301-38	DIODE SEL2210S-C	

PANEL

H.P

VOL

Ref. No.	Part No.	Description	Remark
< FLUORESCENT INDICATOR >			
FL601	1-519-595-21	INDICATOR TUBE, FLUORESCENT	
FL1401	1-519-648-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC601	8-759-154-08	IC uPD75212ACW-299	
IC602	8-749-920-83	IC GP1U52XB	
IC1106	8-759-820-62	IC LB1639	
IC1401	8-759-153-68	IC uPD75106GF-761-3BE	
IC1402	8-759-820-59	IC LC7565	
IC1403	8-759-991-11	IC XR1091DCP	
IC1404	8-759-635-63	IC M51943BSL	
< COIL >			
L601	1-410-521-11	INDUCTOR 100uH	
< TRANSISTOR >			
Q601	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q602	8-729-900-80	TRANSISTOR DTC114ES	
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1102	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1152	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1404	8-729-900-61	TRANSISTOR DTA114ES	
Q1405	8-729-900-80	TRANSISTOR DTC114ES	
Q1406	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1407	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1408	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1409	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1410	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1411	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1412	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1413	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1414	8-729-119-78	TRANSISTOR 2SC2785-HFE	
< RESISTOR >			
R601	1-249-429-11	CARBON 10K 5% 1/4W	
R602	1-249-429-11	CARBON 10K 5% 1/4W	
R603	1-249-423-11	CARBON 3.3K 5% 1/4W	
R604	1-249-437-11	CARBON 47K 5% 1/4W	
R605	1-249-433-11	CARBON 22K 5% 1/4W	
R606	1-249-433-11	CARBON 22K 5% 1/4W	
R607	1-249-439-11	CARBON 68K 5% 1/4W	
R608	1-249-417-11	CARBON 1K 5% 1/4W	
R609	1-249-405-11	CARBON 100 5% 1/4W	
R610	1-249-429-11	CARBON 10K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R611	1-249-421-11	CARBON 2.2K 5% 1/4W	
R612	1-249-417-11	CARBON 1K 5% 1/4W	
R613	1-249-437-11	CARBON 47K 5% 1/4W (AEP.UK.EE)	
R614	1-249-437-11	CARBON 47K 5% 1/4W (AEP.UK.EE)	
R615	1-249-437-11	CARBON 47K 5% 1/4W (AEP.UK.EE)	
R617	1-249-425-11	CARBON 4.7K 5% 1/4W	
R618	1-249-429-11	CARBON 10K 5% 1/4W	
R1122	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1123	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1124	1-249-433-11	CARBON 22K 5% 1/4W	
R1125	1-249-433-11	CARBON 22K 5% 1/4W	
R1126	1-249-433-11	CARBON 22K 5% 1/4W	
R1172	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1173	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1401	1-249-417-11	CARBON 1K 5% 1/4W	
R1402	1-249-435-11	CARBON 33K 5% 1/4W	
R1403	1-249-429-11	CARBON 10K 5% 1/4W	
R1404	1-249-437-11	CARBON 47K 5% 1/4W	
R1405	1-249-405-11	CARBON 100 5% 1/4W	
R1406	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1407	1-249-437-11	CARBON 47K 5% 1/4W	
R1408	1-249-437-11	CARBON 47K 5% 1/4W	
R1409	1-249-437-11	CARBON 47K 5% 1/4W	
R1410	1-249-437-11	CARBON 47K 5% 1/4W	
R1413	1-249-417-11	CARBON 1K 5% 1/4W	
R1414	1-249-417-11	CARBON 1K 5% 1/4W	
R1422	1-249-417-11	CARBON 1K 5% 1/4W	
R1423	1-249-437-11	CARBON 47K 5% 1/4W	
R1424	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1425	1-249-437-11	CARBON 47K 5% 1/4W	
R1426	1-249-437-11	CARBON 47K 5% 1/4W	
R1427	1-249-437-11	CARBON 47K 5% 1/4W	
R1428	1-249-437-11	CARBON 47K 5% 1/4W	
R1429	1-247-891-00	CARBON 330K 5% 1/4W	
R1430	1-247-891-00	CARBON 330K 5% 1/4W	
R1431	1-249-432-11	CARBON 18K 5% 1/4W	
R1432	1-249-427-11	CARBON 6.8K 5% 1/4W	
R1433	1-249-427-11	CARBON 6.8K 5% 1/4W	
R1434	1-249-435-11	CARBON 33K 5% 1/4W	
R1435	1-249-435-11	CARBON 33K 5% 1/4W	
R1436	1-249-419-11	CARBON 1.5K 5% 1/4W	
R1437	1-249-405-11	CARBON 100 5% 1/4W	
R1438	1-249-405-11	CARBON 100 5% 1/4W	
R1439	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1440	1-249-404-00	CARBON 82 5% 1/4W	
R1441	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1442	1-249-404-00	CARBON 82 5% 1/4W	
R1443	1-249-425-11	CARBON 4.7K 5% 1/4W	

VOL

H.P

PANEL

Ref. No.	Part No.	Description	Remark
R1444	1-249-404-00	CARBON 82 5% 1/4W	
R1445	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1446	1-249-404-00	CARBON 82 5% 1/4W	
R1447	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1448	1-249-404-00	CARBON 82 5% 1/4W	
R1449	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1450	1-249-404-00	CARBON 82 5% 1/4W	
R1451	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1452	1-249-404-00	CARBON 82 5% 1/4W	
R1453	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1454	1-249-437-11	CARBON 47K 5% 1/4W	
R1455	1-249-414-11	CARBON 560 5% 1/4W	
R1456	1-249-414-11	CARBON 560 5% 1/4W	
R1457	1-249-414-11	CARBON 560 5% 1/4W	
R1458	1-249-414-11	CARBON 560 5% 1/4W	
R1459	1-249-414-11	CARBON 560 5% 1/4W	
R1460	1-249-414-11	CARBON 560 5% 1/4W	
R1461	1-249-414-11	CARBON 560 5% 1/4W	
R1462	1-249-414-11	CARBON 560 5% 1/4W	
R1463	1-249-411-11	CARBON 330 5% 1/4W	
R1464	1-249-410-11	CARBON 270 5% 1/4W	
R1465	1-249-410-11	CARBON 270 5% 1/4W	
R1466	1-249-410-11	CARBON 270 5% 1/4W	
R1467	1-249-410-11	CARBON 270 5% 1/4W	
R1468	1-249-410-11	CARBON 270 5% 1/4W	
R1469	1-249-411-11	CARBON 330 5% 1/4W	
R1470	1-249-413-11	CARBON 470 5% 1/4W	
R1472	1-249-433-11	CARBON 22K 5% 1/4W	
R1480	1-249-417-11	CARBON 1K 5% 1/4W	

< VARIABLE RESISTOR >

RV1101	1-241-352-11	RES. VAR. CARBON 100K/100K (BALANCE)
RV1102	1-241-350-11	RES. VAR. CARBON 100K/100K (VOLUME)

< SWITCH >

S601	1-554-303-21	SWITCH, TACTILE (1)
S602	1-554-303-21	SWITCH, TACTILE (2)
S603	1-554-303-21	SWITCH, TACTILE (3)
S604	1-554-303-21	SWITCH, TACTILE (4)
S605	1-554-303-21	SWITCH, TACTILE (5)
S606	1-554-303-21	SWITCH, TACTILE (6)
S607	1-554-303-21	SWITCH, TACTILE (7)
S608	1-554-303-21	SWITCH, TACTILE (8)
S609	1-554-303-21	SWITCH, TACTILE (9)
S610	1-554-303-21	SWITCH, TACTILE (0)

Ref. No.	Part No.	Description	Remark
S614	1-554-303-21	SWITCH, TACTILE (UP)	
S615	1-554-303-21	SWITCH, TACTILE (DOWN)	
S616	1-554-303-21	SWITCH, TACTILE (SHIFT)	
S617	1-554-303-21	SWITCH, TACTILE (BAND SELECT)	
S618	1-554-303-21	SWITCH, TACTILE (ST/MUTE)	
S619	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S621	1-554-303-21	SWITCH, TACTILE (ONCE)	
S622	1-554-303-21	SWITCH, TACTILE (DAILY)	
S623	1-554-303-21	SWITCH, TACTILE (NEXT)	
S626	1-554-303-21	SWITCH, TACTILE (CLOCK)	
S627	1-554-303-21	SWITCH, TACTILE (TIMER MODE)	
S628	1-554-303-21	SWITCH, TACTILE (CONTROL)	
S629	1-554-303-21	SWITCH, TACTILE (CLEAR)	
S630	1-554-303-21	SWITCH, TACTILE (BACK)	
S631	1-554-303-21	SWITCH, TACTILE (POWER)	
S632	1-554-303-21	SWITCH, TACTILE (SLEEP)	
S633	1-554-303-21	SWITCH, TACTILE (FREQ/TIME)	
S1401	1-554-303-21	SWITCH, TACTILE (PHONO)	
S1402	1-554-303-21	SWITCH, TACTILE (TUNER)	
S1403	1-554-303-21	SWITCH, TACTILE (CD)	
S1404	1-554-303-21	SWITCH, TACTILE (TAPE)	
S1405	1-554-303-21	SWITCH, TACTILE (VIDEO)	
S1406	1-554-303-21	SWITCH, TACTILE (EQ. REC)	
S1407	1-554-303-21	SWITCH, TACTILE (▲)	
S1408	1-554-303-21	SWITCH, TACTILE (▼)	
S1409	1-554-303-21	SWITCH, TACTILE (1)	
S1410	1-554-303-21	SWITCH, TACTILE (2)	
S1411	1-554-303-21	SWITCH, TACTILE (SURROUND)	
S1412	1-554-303-21	SWITCH, TACTILE (DBFB)	
S1413	1-554-303-21	SWITCH, TACTILE (▶)	
S1414	1-554-303-21	SWITCH, TACTILE (◀)	
S1415	1-554-303-21	SWITCH, TACTILE (5)	
S1416	1-554-303-21	SWITCH, TACTILE (4)	
S1417	1-554-303-21	SWITCH, TACTILE (3)	
S1418	1-554-303-21	SWITCH, TACTILE (DISPLAY)	
S1419	1-554-303-21	SWITCH, TACTILE (EFFECT)	
S1420	1-554-303-21	SWITCH, TACTILE (CLEAR)	
S1421	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S1422	1-554-303-21	SWITCH, TACTILE (PERSONAL)	
< CRYSTAL >			
X601	1-577-621-11	VIBRATOR, CRYSTAL	

POWER

FUSE

CONTROL SW

DISPLAY

Ref. No.	Part No.	Description	Remark
	* 1-638-298-11	POWER BOARD *****	
	* 1-638-299-11	FUSE BOARD *****	
	1-533-217-31	HOLDER, FUSE	
	1-535-139-00	TERMINAL (UX)	
	1-535-476-11	TERMINAL (AEP, G, IT, EE)	
	* 1-560-595-00	TERMINAL (WITH BASE)	
	4-352-844-01	PIN, LEAD, COATING	
	< CAPACITOR >		
C1301	1-161-744-00	CERAMIC 0.01uF	400V
C1330	1-136-165-00	FILM 0.1uF	5% 50V
C1331	1-124-360-00	ELECT 1000uF	20% 16V
C1332	1-124-463-00	ELECT 0.1uF	20% 50V
C1333	1-124-907-11	ELECT 10uF	20% 50V
C1335	1-162-306-11	CERAMIC 0.01uF	20% 16V
C1336	1-162-306-11	CERAMIC 0.01uF	20% 16V
C1337	1-124-907-11	ELECT 10uF	20% 50V
C1338	1-124-122-11	ELECT 100uF	20% 50V
C1339	1-124-907-11	ELECT 10uF	20% 50V
C1340	1-124-910-11	ELECT 47uF	20% 50V
C1345	1-124-477-11	ELECT 47uF	20% 25V
	< DIODE >		
D1301	8-719-987-63	DIODE 1N4148M	
D1302	8-719-987-63	DIODE 1N4148M	
D1317	8-719-200-82	DIODE 11ES2	
D1318	8-719-200-82	DIODE 11ES2	
D1319	8-719-200-82	DIODE 11ES2	
D1320	8-719-200-82	DIODE 11ES2	
D1321	8-719-987-63	DIODE 1N4148M	
D1322	8-719-200-82	DIODE 11ES2	
D1323	8-719-934-21	DIODE HZS30-1L	
D1324	8-719-014-66	DIODE UZP-5.68	
D1330	8-719-987-63	DIODE 1N4148M	
F1301	△ 1-532-388-51	FUSE (2.0A)	
F1302	△ 1-532-350-00	FUSE (4.0A)	
F1303	△ 1-532-350-00	FUSE (4.0A)	
F1304	△ 1-532-388-51	FUSE (2.0A)	
F1305	△ 1-532-388-51	FUSE (2.0A)	
	< IC >		
IC1305	8-759-820-13	IC L78MR06	
	< TRANSISTOR >		
Q1302	8-729-111-67	TRANSISTOR 2SB1375	
Q1303	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1304	8-729-119-78	TRANSISTOR 2SC2785-HFE	

Ref. No.	Part No.	Description	Remark
	< RESISTOR >		
R1304	△ 1-212-857-00	FUSIBLE 10	5% 1/4W F
R1305	△ 1-212-934-00	FUSIBLE 1	5% 1/2W F
R1306	1-249-417-11	CARBON 1K	5% 1/4W
R1307	1-249-429-11	CARBON 10K	5% 1/4W
R1308	1-249-421-11	CARBON 2.2K	5% 1/4W
R1309	1-249-425-11	CARBON 4.7K	5% 1/4W
R1310	1-249-433-11	CARBON 22K	5% 1/4W
R1311	1-249-433-11	CARBON 22K	5% 1/4W
	< RELAY >		
RY1301	1-515-720-11	RELAY	

	* 1-638-022-11	CONTROL SW BOARD *****	
	* 1-638-023-11	DISPLAY BOARD *****	
	* 1-568-854-11	SOCKET, CONNECTOR 11P	
	* 4-943-502-01	HOLDER (TC), LED	
	< DIODE >		
D903	8-719-301-52	DIODE SEL2810A-C	
D904	8-719-301-52	DIODE SEL2810A-C	
D905	8-719-301-38	DIODE SEL2210S-C	
D906	8-719-301-38	DIODE SEL2210S-C	
D907	8-719-301-44	DIODE SEL2410E-D	
D908	8-719-301-38	DIODE SEL2210S-C	
D909	8-719-301-44	DIODE SEL2410E-D	
D910	8-719-301-52	DIODE SEL2810A-C	
D911	8-719-301-52	DIODE SEL2810A-C	
D912	8-719-301-52	DIODE SEL2810A-C	
	< RESISTOR >		
R956	1-249-407-11	CARBON 150	5% 1/4W
R957	1-249-409-11	CARBON 220	5% 1/4W
R958	1-249-411-11	CARBON 330	5% 1/4W
R959	1-249-413-11	CARBON 470	5% 1/4W
R960	1-249-415-11	CARBON 680	5% 1/4W
R961	1-249-417-11	CARBON 1K	5% 1/4W
R962	1-249-420-11	CARBON 1.8K	5% 1/4W
R963	1-249-407-11	CARBON 150	5% 1/4W
R964	1-249-409-11	CARBON 220	5% 1/4W
R965	1-249-411-11	CARBON 330	5% 1/4W
R966	1-249-413-11	CARBON 470	5% 1/4W
R967	1-249-415-11	CARBON 680	5% 1/4W
R968	1-249-417-11	CARBON 1K	5% 1/4W
R969	1-249-426-11	CARBON 5.6K	5% 1/4W
R970	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.

TC SIGNAL

DISPLAY

CONTROL SW

Ref. No.	Part No.	Description	Remark
< SWITCH >			
S901	1-572-268-11	SWITCH, SLIDE (DIRECTION)	
S902	1-572-269-11	SWITCH, SLIDE (DOLBY NR)	
S903	1-554-303-21	SWITCH, TACTILE (■)	DECK A
S904	1-554-303-21	SWITCH, TACTILE (▶)	
S905	1-554-303-21	SWITCH, TACTILE (◀)	
S906	1-554-303-21	SWITCH, TACTILE (◀◀)	DECK B
S907	1-554-303-21	SWITCH, TACTILE (▶▶)	
S908	1-554-303-21	SWITCH, TACTILE (●)	
S909	1-554-303-21	SWITCH, TACTILE (DUBBING HIGH SPEED)	
S910	1-554-303-21	SWITCH, TACTILE (DUBBING NORMAL SPEED)	
S911	1-554-303-21	SWITCH, TACTILE (■)	DECK B
S912	1-554-303-21	SWITCH, TACTILE (▨)	
S913	1-554-303-21	SWITCH, TACTILE (▶)	
S914	1-554-303-21	SWITCH, TACTILE (◀)	
S915	1-554-303-21	SWITCH, TACTILE (○)	
S916	1-554-303-21	SWITCH, TACTILE (◀◀)	DECK A
S917	1-554-303-21	SWITCH, TACTILE (▶▶)	

* A-4341-504-A TC SIGNAL BOARD, COMPLETE			

* 1-568-854-11 SOCKET, CONNECTOR 11P			
7-682-548-04 SCREW +8VTT 3X8 (S)			
< CAPACITOR >			
C701	1-136-157-00	FILM 0.022uF	5% 50V
C704	1-162-288-31	CERAMIC 330PF	10% 50V
C705	1-131-587-11	TANTALUM 0.68uF	10% 35V
C706	1-124-907-11	ELECT 10uF	20% 50V
C707	1-124-902-00	ELECT 0.47uF	20% 50V
C708	1-124-907-11	ELECT 10uF	20% 50V
C709	1-124-925-11	ELECT 2.2uF	20% 100V
C710	1-124-907-11	ELECT 10uF	20% 50V
C751	1-136-157-00	FILM 0.022uF	5% 50V
C754	1-162-288-31	CERAMIC 330PF	10% 50V
C755	1-131-587-11	TANTALUM 0.68uF	10% 35V
C756	1-124-907-11	ELECT 10uF	20% 50V
C757	1-124-902-00	ELECT 0.47uF	20% 50V
C758	1-124-907-11	ELECT 10uF	20% 50V
C759	1-124-925-11	ELECT 2.2uF	20% 100V
C760	1-124-907-11	ELECT 10uF	20% 50V
C801	1-124-903-11	ELECT 1uF	20% 50V
C802	1-161-494-00	CERAMIC 0.022uF	25V
C803	1-124-925-11	ELECT 2.2uF	20% 100V
C804	1-124-443-00	ELECT 100uF	20% 10V

Ref. No.	Part No.	Description	Remark
C805	1-124-443-00	ELECT 100uF 20% 10V	
C806	1-124-907-11	ELECT 10uF 20% 50V	
C807	1-124-443-00	ELECT 100uF 20% 10V	
C808	1-124-443-00	ELECT 100uF 20% 10V	
C901	1-124-907-11	ELECT 10uF 20% 50V	
C902	1-136-165-00	FILM 0.1uF 5% 50V	
C903	1-136-165-00	FILM 0.1uF 5% 50V	
C904	1-124-903-11	ELECT 1uF 20% 50V	
C905	1-162-288-31	CERAMIC 330PF 10% 50V	
C906	1-162-288-31	CERAMIC 330PF 10% 50V	
< CONNECTOR >			
CN901	* 1-568-850-11	SOCKET, CONNECTOR 7P	
CN902	* 1-568-850-11	SOCKET, CONNECTOR 7P	
CN904	* 1-568-953-11	PIN, CONNECTOR 4P	
CN905	* 1-568-830-11	SOCKET, CONNECTOR 11P	
CN906	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN907	1-580-783-11	PLUG, CONNECTOR	
CN908	1-580-783-11	PLUG, CONNECTOR	
CN909	1-580-783-11	PLUG, CONNECTOR	
CNP801	* 1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
CNP901	* 1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
< DIODE >			
D801	8-719-987-63	DIODE 1N4148M	
D802	8-719-933-50	DIODE HZS7C2L	
D803	8-719-933-50	DIODE HZS7C2L	
D804	8-719-001-18	DIODE UZL-9M3	
D901	8-719-987-63	DIODE 1N4148M	
D902	8-719-987-63	DIODE 1N4148M	
D903	8-719-987-63	DIODE 1N4148M	
< IC >			
IC801	8-759-634-51	IC M5218AP	
IC803	8-759-140-53	IC MC14053BCP	
IC805	8-752-031-67	IC CXA1100P	
IC806	8-752-038-02	IC CXA1198AP	
IC807	8-759-000-48	IC MC14052BCP	
IC901	8-759-207-05	IC TA7272P	
IC902	8-759-636-69	IC M50964-251FP	
< TRANSISTOR >			
Q701	8-729-900-74	TRANSISTOR DTC143TS	
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q751	8-729-900-74	TRANSISTOR DTC143TS	
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE	

TC SIGNAL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q753	8-729-119-78	TRANSISTOR 2SC2785-HFE		R767	1-249-421-11	CARBON 2.2K	5% 1/4W
Q801	8-729-900-61	TRANSISTOR DTA114ES		R801	1-249-441-11	CARBON 100K	5% 1/4W
Q802	8-729-900-61	TRANSISTOR DTA114ES		R802	1-249-417-11	CARBON 1K	5% 1/4W
Q803	8-729-900-61	TRANSISTOR DTA114ES		R803	1-249-441-11	CARBON 100K	5% 1/4W
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE		R804	1-249-427-11	CARBON 6.8K	5% 1/4W
Q902	8-729-119-78	TRANSISTOR 2SC2785-HFE		R805	1-249-413-11	CARBON 470	5% 1/4W
Q903	8-729-119-76	TRANSISTOR 2SA1175-HFE		R806	1-249-429-11	CARBON 10K	5% 1/4W
Q904	8-729-900-61	TRANSISTOR DTA114ES		R807	1-249-413-11	CARBON 470	5% 1/4W
Q905	8-729-900-80	TRANSISTOR DTC114ES		R808	1-247-870-11	CARBON 43K	5% 1/4W
Q906	8-729-119-76	TRANSISTOR 2SA1175-HFE		R809	1-249-431-11	CARBON 15K	5% 1/4W
Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE		R810	1-215-460-00	METAL 43K	1% 1/6W
Q908	8-729-119-78	TRANSISTOR 2SC2785-HFE		R811	1-249-437-11	CARBON 47K	5% 1/4W
Q910	8-729-900-61	TRANSISTOR DTA114ES		R812	1-249-437-11	CARBON 47K	5% 1/4W
Q911	8-729-119-76	TRANSISTOR 2SA1175-HFE		R813	1-247-887-00	CARBON 220K	5% 1/4W
Q912	8-729-119-76	TRANSISTOR 2SA1175-HFE		R814	1-247-864-11	CARBON 24K	5% 1/4W
Q913	8-729-900-61	TRANSISTOR DTA114ES		R815	1-249-405-11	CARBON 100	5% 1/4W
Q914	8-729-900-89	TRANSISTOR DTC144ES		R816	1-249-405-11	CARBON 100	5% 1/4W
Q915	8-729-116-57	TRANSISTOR 2SB1068-K		R817	1-249-436-11	CARBON 39K	5% 1/4W
Q916	8-729-116-57	TRANSISTOR 2SB1068-K		R818	1-249-435-11	CARBON 33K	5% 1/4W
< RESISTOR >				R819	1-249-432-11	CARBON 18K	5% 1/4W
R701	1-249-421-11	CARBON 2.2K	5% 1/4W	R820	1-247-878-00	CARBON 91K	5% 1/4W
R702	1-249-423-11	CARBON 3.3K	5% 1/4W	R821	1-247-881-00	CARBON 120K	5% 1/4W
R703	1-247-887-00	CARBON 220K	5% 1/4W	R822	1-249-437-11	CARBON 47K	5% 1/4W
R708	1-249-434-11	CARBON 27K	5% 1/4W	R823	1-247-862-11	CARBON 20K	5% 1/4W
R709	1-249-421-11	CARBON 2.2K	5% 1/4W	R824	1-247-868-11	CARBON 36K	5% 1/4W
R710	1-249-425-11	CARBON 4.7K	5% 1/4W	R825	1-249-433-11	CARBON 22K	5% 1/4W
R711	1-249-426-11	CARBON 5.6K	5% 1/4W	R826	1-247-876-11	CARBON 75K	5% 1/4W
R712	1-249-425-11	CARBON 4.7K	5% 1/4W	R827	1-247-868-11	CARBON 36K	5% 1/4W
R713	1-249-421-11	CARBON 2.2K	5% 1/4W	R828	1-247-878-00	CARBON 91K	5% 1/4W
R714	1-249-421-11	CARBON 2.2K	5% 1/4W	R829	1-247-874-11	CARBON 62K	5% 1/4W
R715	1-249-421-11	CARBON 2.2K	5% 1/4W	R830	1-249-437-11	CARBON 47K	5% 1/4W
R716	1-249-425-11	CARBON 4.7K	5% 1/4W	R831	1-249-433-11	CARBON 22K	5% 1/4W
R717	1-249-421-11	CARBON 2.2K	5% 1/4W	R832	1-247-878-00	CARBON 91K	5% 1/4W
R751	1-249-421-11	CARBON 2.2K	5% 1/4W	R833	1-247-881-00	CARBON 120K	5% 1/4W
R752	1-249-423-11	CARBON 3.3K	5% 1/4W	R834	1-247-876-11	CARBON 75K	5% 1/4W
R753	1-247-887-00	CARBON 220K	5% 1/4W	R835	1-247-868-11	CARBON 36K	5% 1/4W
R758	1-249-434-11	CARBON 27K	5% 1/4W	R836	1-249-438-11	CARBON 56K	5% 1/4W
R759	1-249-421-11	CARBON 2.2K	5% 1/4W	R837	1-249-432-11	CARBON 18K	5% 1/4W
R760	1-249-425-11	CARBON 4.7K	5% 1/4W	R838	1-249-434-11	CARBON 27K	5% 1/4W
R761	1-249-426-11	CARBON 5.6K	5% 1/4W	R839	1-249-440-11	CARBON 82K	5% 1/4W
R762	1-249-425-11	CARBON 4.7K	5% 1/4W	R840	1-249-440-11	CARBON 82K	5% 1/4W
R763	1-249-421-11	CARBON 2.2K	5% 1/4W	R841	1-249-417-11	CARBON 1K	5% 1/4W
R764	1-249-421-11	CARBON 2.2K	5% 1/4W	R842	1-249-409-11	CARBON 220	5% 1/4W
R765	1-249-421-11	CARBON 2.2K	5% 1/4W	R843	1-249-417-11	CARBON 1K	5% 1/4W
R766	1-249-425-11	CARBON 4.7K	5% 1/4W	R844	1-249-429-11	CARBON 10K	5% 1/4W
				R845	1-249-429-11	CARBON 10K	5% 1/4W
				R846	1-249-429-11	CARBON 10K	5% 1/4W
				R847	1-249-405-11	CARBON 100	5% 1/4W
				R848	1-249-405-11	CARBON 100	5% 1/4W

TC SIGNAL

Ref. No.	Part No.	Description	Remark
R901	1-249-412-11	CARBON	390 5% 1/4W
R902	1-249-412-11	CARBON	390 5% 1/4W
R903	1-249-415-11	CARBON	680 5% 1/4W
R904	1-249-415-11	CARBON	680 5% 1/4W
R905	1-249-409-11	CARBON	220 5% 1/4W
R906	1-249-416-11	CARBON	820 5% 1/4W
R907	1-249-409-11	CARBON	220 5% 1/4W
R908	1-249-412-11	CARBON	390 5% 1/4W
R909	1-249-412-11	CARBON	390 5% 1/4W
R910	1-249-412-11	CARBON	390 5% 1/4W
R911	1-247-820-11	CARBON	360 5% 1/4W
R913	1-249-420-11	CARBON	1.8K 5% 1/4W
R915	1-249-429-11	CARBON	10K 5% 1/4W
R916	1-249-425-11	CARBON	4.7K 5% 1/4W
R917	1-249-417-11	CARBON	1K 5% 1/4W
R918	1-249-429-11	CARBON	10K 5% 1/4W
R919	1-249-429-11	CARBON	10K 5% 1/4W
R920	1-249-441-11	CARBON	100K 5% 1/4W
R921	1-247-895-00	CARBON	470K 5% 1/4W
R922	1-247-895-00	CARBON	470K 5% 1/4W
R923	1-249-421-11	CARBON	2.2K 5% 1/4W
R924	1-249-421-11	CARBON	2.2K 5% 1/4W
R925	1-249-425-11	CARBON	4.7K 5% 1/4W
R926	1-249-434-11	CARBON	27K 5% 1/4W
R927	1-249-429-11	CARBON	10K 5% 1/4W
R928	1-249-429-11	CARBON	10K 5% 1/4W
R929	1-249-434-11	CARBON	27K 5% 1/4W
R930	1-249-429-11	CARBON	10K 5% 1/4W
R931	1-249-429-11	CARBON	10K 5% 1/4W
R932	1-249-429-11	CARBON	10K 5% 1/4W
R933	1-249-422-11	CARBON	2.7K 5% 1/4W
R934	1-249-422-11	CARBON	2.7K 5% 1/4W
R935	1-249-422-11	CARBON	2.7K 5% 1/4W
R936	1-247-860-11	CARBON	16K 5% 1/4W
R937	1-247-862-11	CARBON	20K 5% 1/4W
R938	1-249-425-11	CARBON	4.7K 5% 1/4W
R939	1-249-437-11	CARBON	47K 5% 1/4W
R940	1-247-866-11	CARBON	30K 5% 1/4W
R941	1-247-860-11	CARBON	16K 5% 1/4W
R942	1-247-862-11	CARBON	20K 5% 1/4W
R943	1-249-425-11	CARBON	4.7K 5% 1/4W
R944	1-249-437-11	CARBON	47K 5% 1/4W
R945	1-247-866-11	CARBON	30K 5% 1/4W
R946	1-247-872-11	CARBON	51K 5% 1/4W
R947	1-247-872-11	CARBON	51K 5% 1/4W
R948	1-249-405-11	CARBON	100 5% 1/4W

Ref. No.	Part No.	Description	Remark
R949	1-247-872-11	CARBON	51K 5% 1/4W
R950	1-247-872-11	CARBON	51K 5% 1/4W
R951	1-249-405-11	CARBON	100 5% 1/4W
R952	1-249-415-11	CARBON	680 5% 1/4W
R953	1-249-415-11	CARBON	680 5% 1/4W
R954	1-249-429-11	CARBON	10K 5% 1/4W
R955	1-249-429-11	CARBON	10K 5% 1/4W
R971	1-249-429-11	CARBON	10K 5% 1/4W
R972	1-247-903-00	CARBON	1M 5% 1/4W
R973	1-249-417-11	CARBON	1K 5% 1/4W
R974	1-249-417-11	CARBON	1K 5% 1/4W
R975	1-249-429-11	CARBON	10K 5% 1/4W
< VARIABLE RESISTOR >			
RV701	1-230-721-11	RES. ADJ. CARBON 10K	
RV751	1-230-721-11	RES. ADJ. CARBON 10K	
< CERAMIC >			
X901	1-577-358-21	VIBRATOR, CERAMIC	

MISCELLANEOUS			

10	1-590-578-11	WIRE, FLAT TYPE 19P	
11	1-590-577-11	WIRE, FLAT TYPE 17P	
12	1-590-576-11	WIRE, FLAT TYPE 11P	
61	1-590-575-12	WIRE, FLAT TYPE 11P	
115	1-590-459-11	WIRE, FLAT TYPE	
116	1-590-574-11	WIRE, FLAT TYPE 7P	
CN1301	△ 1-555-750-00	CORD, POWER (AEP, G, IT, EE)	
CN1301	△ 1-556-035-00	CORD, POWER (UK)	
CN1302	△ 1-526-751-00	OUTLET, AC (AC OUTLET) (UK)	
CN1302	△ 1-526-794-11	OUTLET, AC (AC OUTLET) (AEP, G, IT, EE)	
F1301	△ 1-532-388-51	FUSE (2.0A)	
F1302	△ 1-532-350-00	FUSE (4.0A)	
F1303	△ 1-532-350-00	FUSE (4.0A)	
F1304	△ 1-532-388-51	FUSE (2.0A)	
F1305	△ 1-532-388-51	FUSE (2.0A)	
HP1	A-2003-757-A	BASE ASSY, HEAD (DECK A)	
HRP1	A-2003-760-A	BASE ASSY, HEAD (DECK B)	
M1	X-3359-415-1	REEL MOTOR ASSY (DECK A)	
M2	X-3359-417-1	CAPSTAN MOTOR ASSY (DECK A)	
M3	X-3359-415-1	REEL MOTOR ASSY (DECK B)	
M4	X-3359-417-1	CAPSTAN MOTOR ASSY (DECK B)	
T1301	△ 1-450-398-11	TRANSFORMER, POWER	
T1302	△ 1-450-397-11	TRANSFORMER, POWER	

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	Remark
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ACCESSORY & PACKING MATERIAL

1-465-697-11 REMOTE COMMANDER
 1-501-369-11 ANTENNA
 1-501-374-11 ANTENNA, LOOP
 3-707-584-01 COVER, BATTERY
 3-753-137-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH,
 SPANISH, PORTUGUESE) (AEP, EE)
 3-753-137-41 MANUAL, INSTRUCTION (GERMANY, DUTCH,
 SWEDISH, ITALIAN) (AEP, Germany, IT, EE)
 3-753-137-51 MANUAL, INSTRUCTION (ENGLISH) (UK)
 4-921-934-01 SHEET, PROTECTION
 * 4-944-257-01 INDIVIDUAL CARTON (IT)
 * 4-945-026-01 CUSHION

HARDWARE LIST

# 1	7-685-646-79	SCREW +BVTP 3X8	TYPE2 N-S
# 2	7-682-547-04	SCREW +BVTT 3X6	(S)
# 3	7-682-548-04	SCREW +BVTT 3X8	(S)
# 4	7-685-650-79	SCREW +BVTP 3X16	TYPE2 IT-3
# 5	7-627-556-08	SCREW +P 2.6X2.8	
# 6	7-621-775-00	SCREW +B 2.6X3	

HST-D305

SONY[®] SERVICE MANUAL

AEP Model
UK Model
East European Model

SUPPLEMENT-1

File this Supplement with the Service Manual.

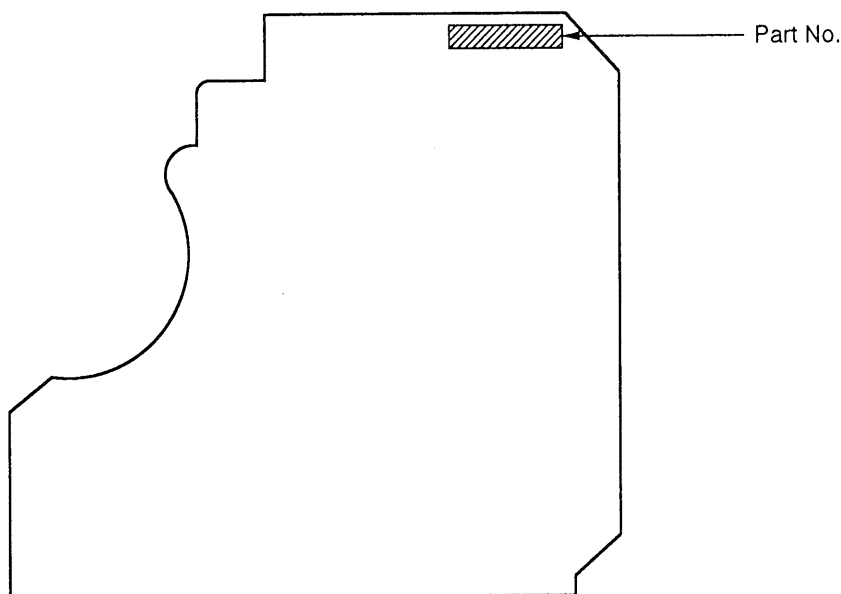
CHANGE OF AUDIO (A) and (B) BOARDS

Due to changes in AUDIO circuit boards (A) and (B), changes in print diagrams, circuit diagrams and electrical parts list are listed.

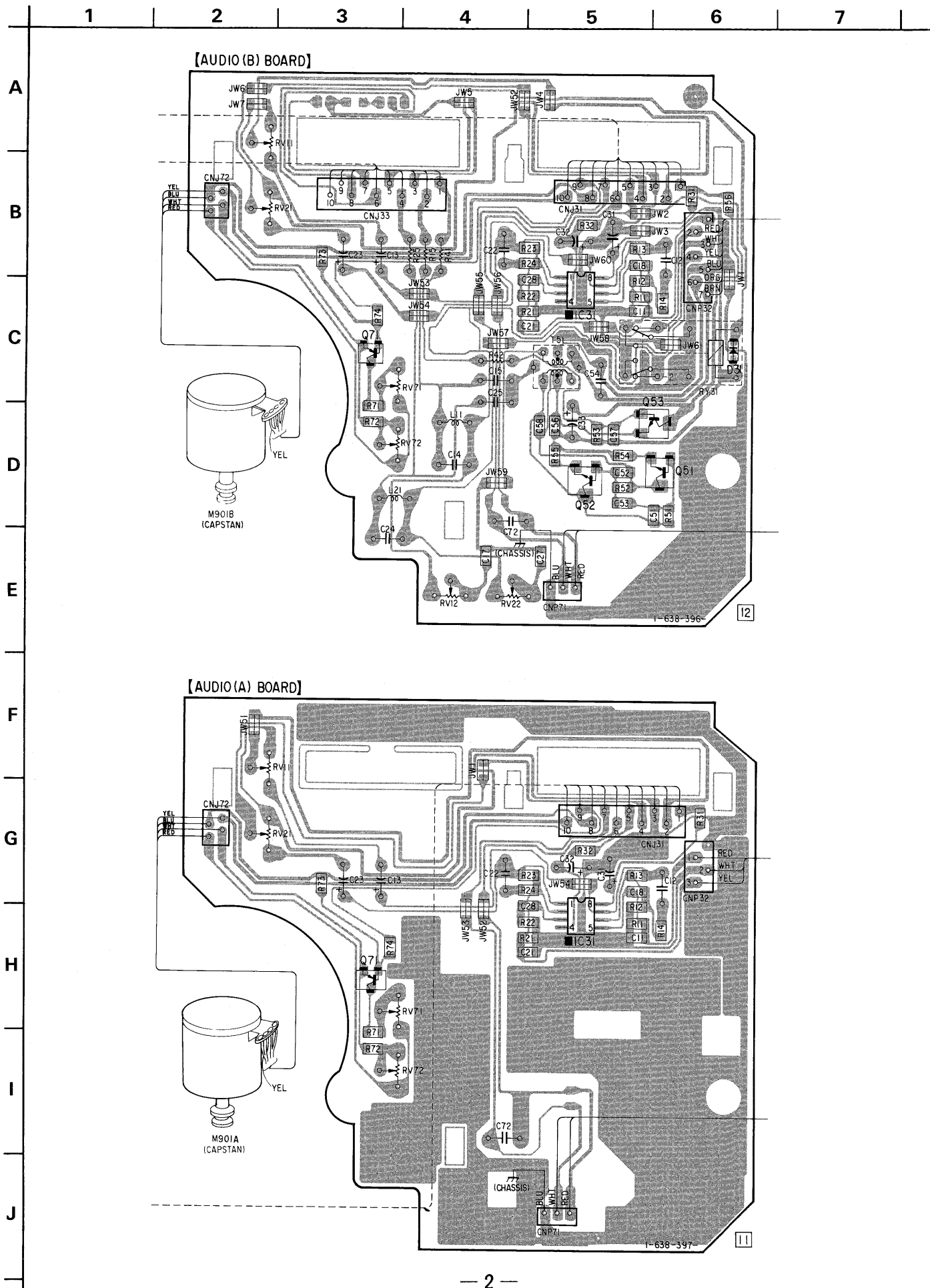
This supplement refers to AUDIO (A) and (B) boards which carries part No.1-638-397-1 □ and 1-638-396-1 □ . (See the figure below)

[AUDIO (A) BOARD] (Component side)

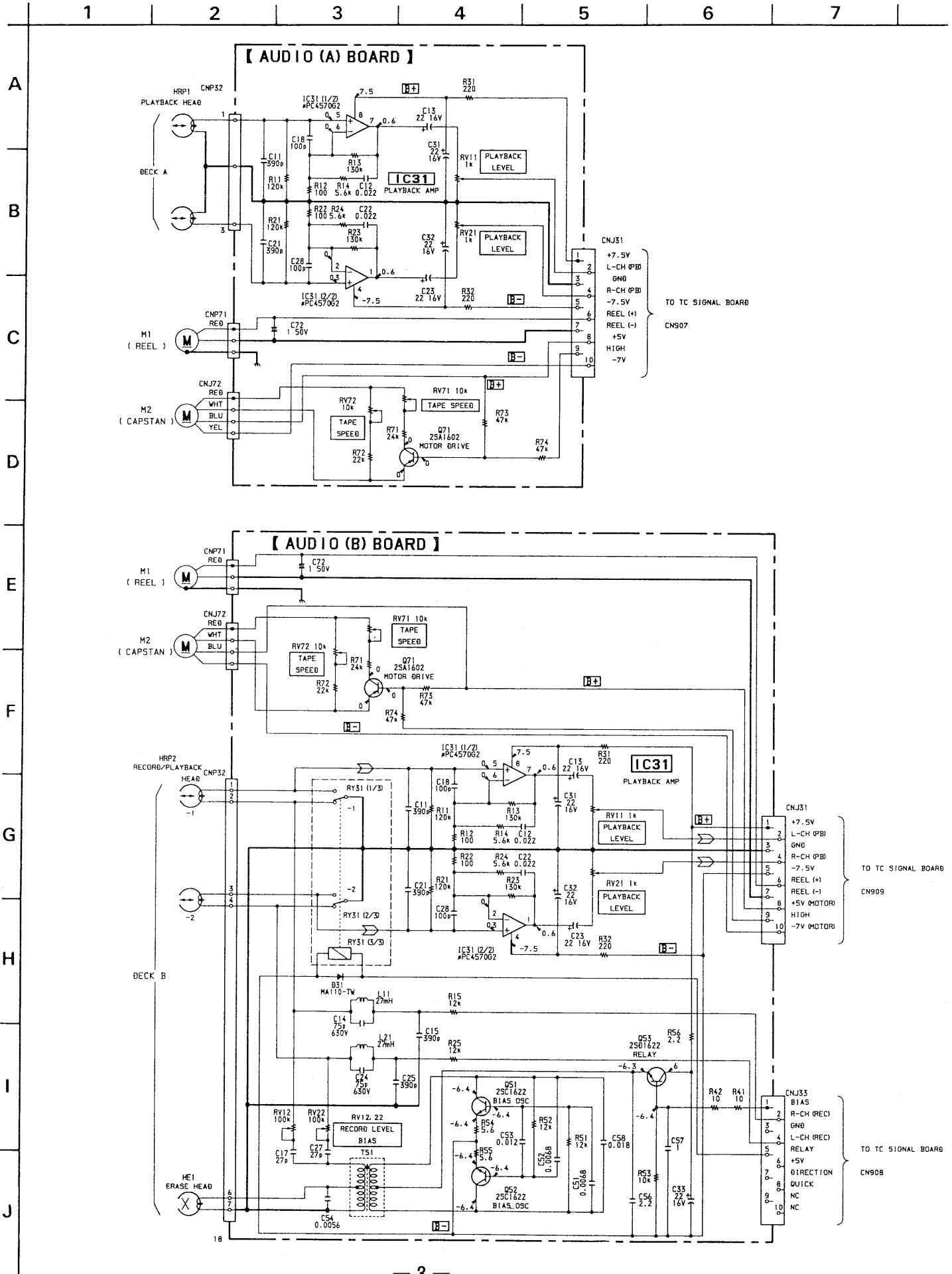
[AUDIO (B) BOARD] (Component side)



1. PRINTED WIRING BOARDS



2. SCHEMATIC DIAGRAM



3. ELECTRICAL PARTS LIST

AUDIO(A)

AUDIO(B)

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal oxide-film resistor
F : nonflammable

- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, μ : μ , for example .
 μA : μA , μPA : μPA
 μPB : μPB , μPC : μPC
 μPD : μPD
- CAPACITORS
 μF : μF
- COILS
 μH : μH

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.

Ref.No.	Part No.	Description	Remark			
*	A-2006-609-A	AUDIO (A) BOARD, COMPLETE *****				
		< CAPACITOR >				
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C12	1-136-157-00	FILM	0.022uF	5%	50V	
C13	1-124-234-00	ELECT	22uF	20%	16V	
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C22	1-136-157-00	FILM	0.022uF	5%	50V	
C23	1-124-234-00	ELECT	22uF	20%	16V	
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C31	1-124-234-00	ELECT	22uF	20%	16V	
C32	1-124-234-00	ELECT	22uF	20%	16V	
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V	
		< CGNNECTOR >				
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD				
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P				
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P				
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P				
		< IC >				
IC31	8-759-106-02	IC	uPC4570G2			
		< JUMPER WIRE >				
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW51	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W	
		< TRANSISTOR >				
Q71	8-729-602-36	TRANSISTOR	2SA1602			
		< RESISTOR >				
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R12	1-216-025-00	METAL CHIP	100	5%	1/10W	
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W	

Ref.No.	Part No.	Description	Remark			
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R22	1-216-025-00	METAL CHIP	100	5%	1/10W	
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R31	1-216-033-00	METAL CHIP	220	5%	1/10W	
R32	1-216-033-00	METAL CHIP	220	5%	1/10W	
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W	
< VARIABLE RESISTOR >						
RV11	1-238-012-11	RES, ADJ, CARBON 1K (PB LEVEL)				
RV21	1-238-012-11	RES, ADJ, CARBON 1K (PB LEVEL)				
RV71	1-238-016-11	RES, ADJ, CARBON 10K (TAPE SPEED)				
RV72	1-238-016-11	RES, ADJ, CARBON 10K (TAPE SPEED)				

*	A-2006-583-A	AUDIO (B) BOARD, COMPLETE				

< CAPACITOR >						
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C12	1-136-157-00	FILM	0.022uF	5%	50V	
C13	1-124-234-00	ELECT	22uF	20%	16V	
C14	1-136-273-91	FILM	75PF	5%	630V	
C15	1-164-080-11	CERAMIC	390PF	10%	50V	
C17	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C22	1-136-157-00	FILM	0.022uF	5%	50V	
C23	1-124-234-00	ELECT	22uF	20%	16V	
C24	1-136-273-91	FILM	75PF	5%	630V	
C25	1-164-080-11	CERAMIC	390PF	10%	50V	
C27	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C31	1-124-234-00	ELECT	22uF	20%	16V	
C32	1-124-234-00	ELECT	22uF	20%	16V	
C33	1-124-234-00	ELECT	22uF	20%	16V	

AUDIO(B)

Ref.No.	Part No.	Description	Remark		
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C52	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C53	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C54	1-136-560-11	FILM	0.0056uF	5%	630V
C56	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C57	1-164-346-11	CERAMIC CHIP	1uF		16V
C58	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V
< CONNECTOR >					
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ33	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
* CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
< DIODE >					
D31	8-719-404-46	DIODE	MA110-TW		
< IC >					
IC31	8-759-106-02	IC	uPC4570G2		
< JUMPER WIRE >					
JW1	1-216-296-00	METAL CHIP	0	5%	1/8W
JW2	1-216-295-00	METAL CHIP	0	5%	1/10W
JW3	1-216-295-00	METAL CHIP	0	5%	1/10W
JW4	1-216-295-00	METAL CHIP	0	5%	1/10W
JW5	1-216-295-00	METAL CHIP	0	5%	1/10W
JW6	1-216-295-00	METAL CHIP	0	5%	1/10W
JW7	1-216-295-00	METAL CHIP	0	5%	1/10W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
JW55	1-216-296-00	METAL CHIP	0	5%	1/8W
JW56	1-216-296-00	METAL CHIP	0	5%	1/8W
JW57	1-216-296-00	METAL CHIP	0	5%	1/8W
JW58	1-216-296-00	METAL CHIP	0	5%	1/8W
JW59	1-216-296-00	METAL CHIP	0	5%	1/8W
JW60	1-216-296-00	METAL CHIP	0	5%	1/8W
JW61	1-216-296-00	METAL CHIP	0	5%	1/8W
< COIL >					
L11	1-410-780-11	INDUCTOR	27mH		
L21	1-410-780-11	INDUCTOR	27mH		
< TRANSISTOR >					
Q51	8-729-808-01	TRANSISTOR	2SD1622-S		
Q52	8-729-808-01	TRANSISTOR	2SD1622-S		

Ref.No.	Part No.	Description	Remark		
Q53	8-729-808-01	TRANSISTOR	2SD1622-S		
Q71	8-729-602-36	TRANSISTOR	2SA1602		
< RESISTOR >					
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R15	1-249-430-11	CARBON	12K	5%	1/4W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R25	1-249-430-11	CARBON	12K	5%	1/4W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R41	1-249-393-11	CARBON	10	5%	1/4W
R42	1-249-393-11	CARBON	10	5%	1/4W
R51	1-216-075-00	METAL CHIP	12K	5%	1/10W
R52	1-216-075-00	METAL CHIP	12K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R56	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
< VARIABLE RESISTOR >					
RV11	1-238-012-11	RES, ADJ, CARBON 1K	(PB LEVEL)		
RV12	1-238-550-11	RES, ADJ, CARBON 100K	(REC BIAS)		
RV21	1-238-012-11	RES, ADJ, CARBON 1K	(PB LEVEL)		
RV22	1-238-550-11	RES, ADJ, CARBON 100K	(REC BIAS)		
RV71	1-238-016-11	RES, ADJ, CARBON 10K	(TAPE SPEED)		
RV72	1-238-016-11	RES, ADJ, CARBON 10K	(TAPE SPEED)		
< RELAY >					
RY31	1-515-726-11	RELAY			
< TRANSFORMER >					
T51	1-406-419-11	COIL, BIAS OSCILLATION			


HST-D305

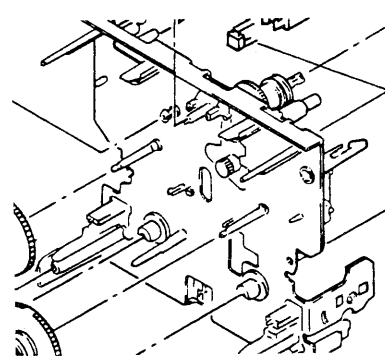
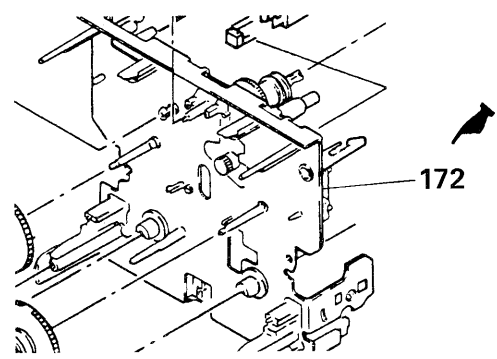
SONY[®] SERVICE MANUAL

*AEP Model
UK Model
East Europe Model*

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT	CORRECT																								
44	<table><tr><th>Ref.No.</th><th>Part No.</th><th>Description</th></tr><tr><td>M1</td><td>X-3359-415-1</td><td>REEL MOTOR ASSY (DECK A)</td></tr><tr><td>M3</td><td>X-3359-415-1</td><td>REEL MOTOR ASSY (DECK B)</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></table>	Ref.No.	Part No.	Description	M1	X-3359-415-1	REEL MOTOR ASSY (DECK A)	M3	X-3359-415-1	REEL MOTOR ASSY (DECK B)	_____	_____	_____	<table><tr><th>Ref.No.</th><th>Part No.</th><th>Description</th></tr><tr><td>M1</td><td>X-3363-501-1</td><td>REEL MOTOR ASSY (DECK A)</td></tr><tr><td>M3</td><td>X-3363-501-1</td><td>REEL MOTOR ASSY (DECK B)</td></tr><tr><td>172</td><td>X-3359-415-1</td><td>CHASSIS ASSY, MECHANICAL</td></tr></table>	Ref.No.	Part No.	Description	M1	X-3363-501-1	REEL MOTOR ASSY (DECK A)	M3	X-3363-501-1	REEL MOTOR ASSY (DECK B)	172	X-3359-415-1	CHASSIS ASSY, MECHANICAL
Ref.No.	Part No.	Description																								
M1	X-3359-415-1	REEL MOTOR ASSY (DECK A)																								
M3	X-3359-415-1	REEL MOTOR ASSY (DECK B)																								
_____	_____	_____																								
Ref.No.	Part No.	Description																								
M1	X-3363-501-1	REEL MOTOR ASSY (DECK A)																								
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172	X-3359-415-1	CHASSIS ASSY, MECHANICAL																								
																										

HST-D305

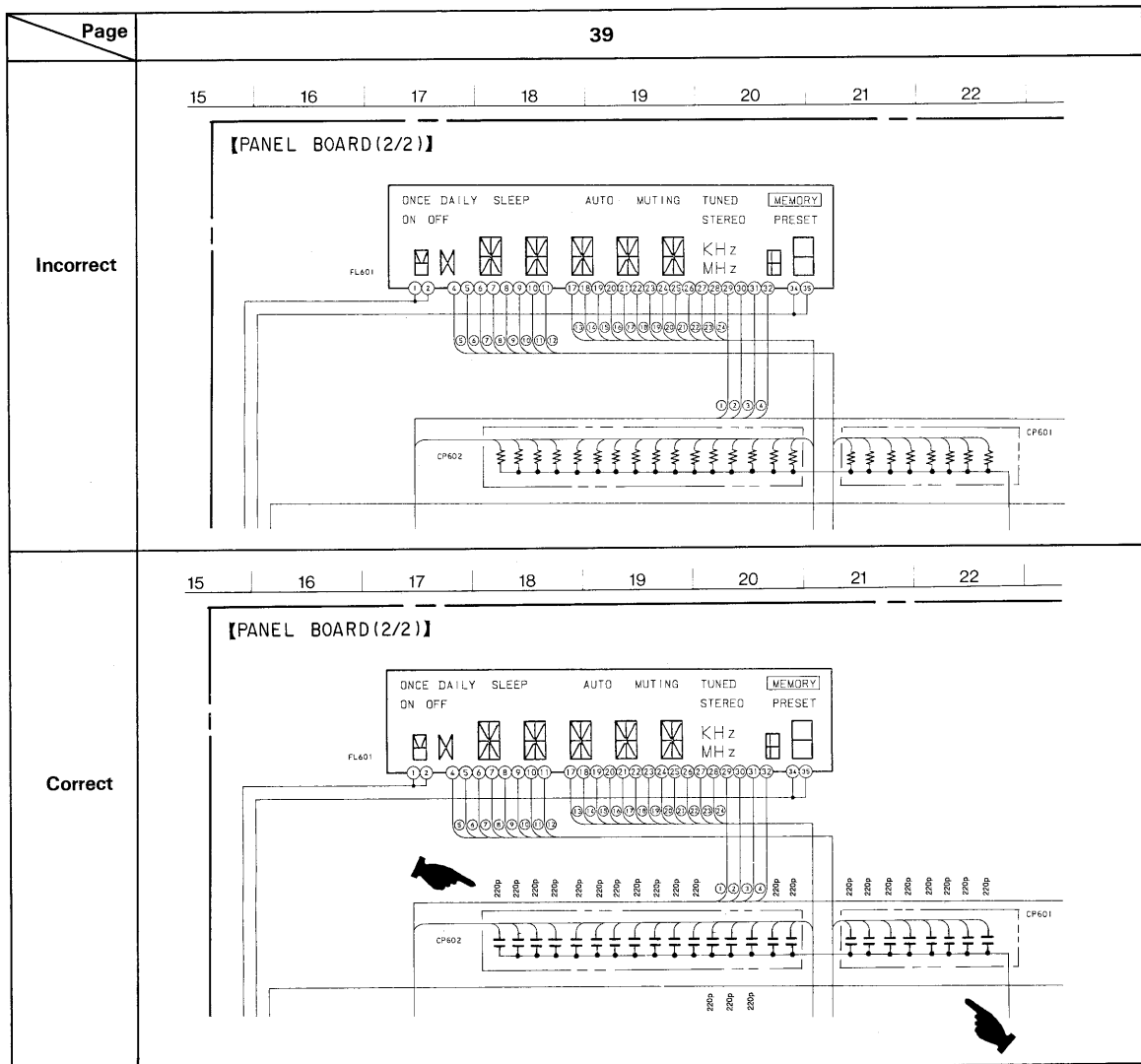
SONY[®] SERVICE MANUAL

AEP Model
UK Model
East European Model

CORRECTION-2

File this correction with the service manual.

 : indicates corrected portion.



HST-D305

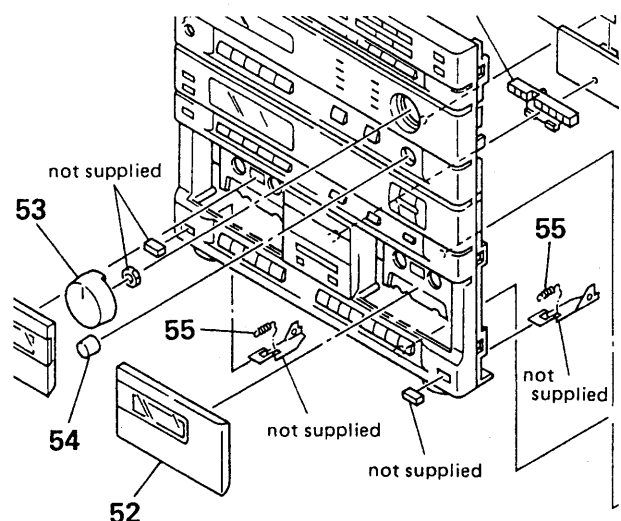
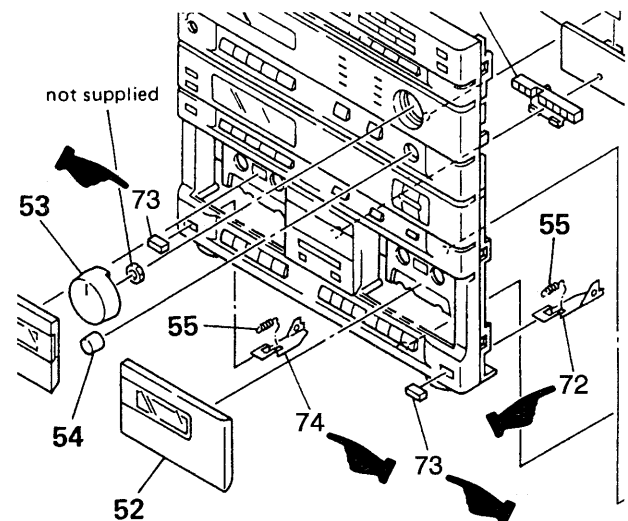
SONY[®] SERVICE MANUAL

*AEP Model
UK Model
East Europe Model*

CORRECTION-3

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT	CORRECT																				
42																						
	<table><tr><th>Ref. No.</th><th>Part No.</th><th>Description</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	Ref. No.	Part No.	Description							<table><tr><th>Ref. No.</th><th>Part No.</th><th>Description</th></tr><tr><td>72</td><td>4-943-493-01</td><td>LEVER (R), EJECT</td></tr><tr><td>73</td><td>4-935-355-21</td><td>BUTTON (EJECT)</td></tr><tr><td>74</td><td>4-943-492-01</td><td>LEVER (L), EJECT</td></tr></table>	Ref. No.	Part No.	Description	72	4-943-493-01	LEVER (R), EJECT	73	4-935-355-21	BUTTON (EJECT)	74	4-943-492-01
Ref. No.	Part No.	Description																				
Ref. No.	Part No.	Description																				
72	4-943-493-01	LEVER (R), EJECT																				
73	4-935-355-21	BUTTON (EJECT)																				
74	4-943-492-01	LEVER (L), EJECT																				