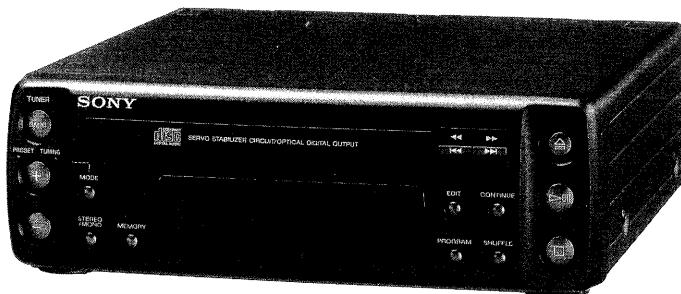


HCD-H6800

SERVICE MANUAL



AEP Model
UK Model
E Model
Australian Model
Tourist Model

This set is the Tuner CD Player section in FH-E9X, MHC-6800.

SPECIFICATIONS

Tuner Section

System	FM stereo, FM/AM superheterodyne tuner
FM tuner section	
Tuning range	87.5 — 108 MHz
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz
AM tuner section	
Tuning range	AEP, UK model: MW: 531—1,602 kHz LW: 153—279 kHz German model: MW: 531—1,602 kHz Italian model: MW: 522—1,611 kHz E, AUS, EA, JE, MY, SP model: MW: 531 — 1,602 kHz (with the MW tuning interval set at 9 kHz) MW: 530 — 1,710 kHz (with the MW tuning interval set at 10 kHz) (except the model for Middle East) SW: 5.95 — 17.90 MHz
Antenna	AM loop antenna, External antenna terminals
Intermediate frequency	450 kHz

Compact Disc Player Section

System	Compact disc digital audio system
Laser	Semiconductor laser
Wave length	780 — 790 nm
Outputs	DIGITAL OPTICAL OUT (optical output connector): wave length 660 nm, output level -18 dBm

Design and specifications subject to change without notice.

Model Name Using Similar Mechanism	CDP-H6700/H7700
CD Mechanism Type	CDM13BA-5BD3
Optical Pick-Up Block Type	BU-5BD3

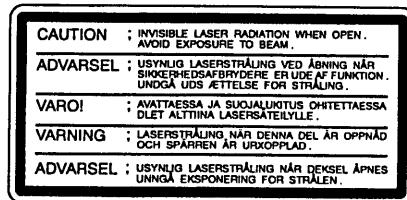
- AUS : Australian model
- EA : Saudi Arabia model
- JE : Tourist model
- MY : Malaysia model
- SP : Singapore model

For the United kingdom and European countries.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

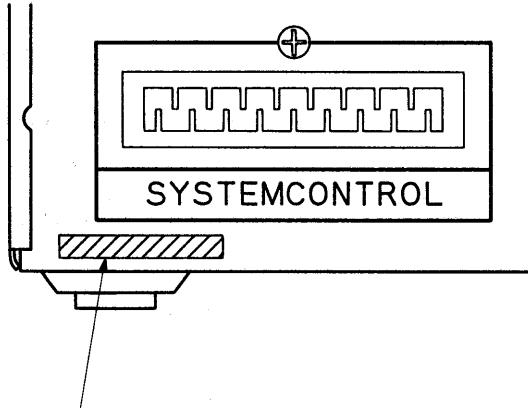
The following caution label is located inside the unit.



TUNER CD PLAYER
SONY®

MODEL IDENTIFICATION

—BACK PANEL—



4-954-196-11 AE : AEP, UK model

4-954-196-21 E : E, AUS, EA, JE, MY, SP model

4-954-196-31 AE4: German (G) model

4-954-196-41 IT : Italian (IT) model

• AUS : Australian model

• EA : Saudi Arabia model

• JE : Tourist model

• MY : Malaysia model

• SP : Singapore model

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1. SERVICING NOTES		3
2. GENERAL		
Parts Identification		4
Radio Reception		5
3. ELECTRICAL ADJUSTMENTS		
CD Section		6
Tuner Section		7
4. DIAGRAMS		
4-1. FL601 (Fluorescent Indicator Tube)		9
4-2. Semiconductor Lead Layouts		10
4-3. Block Diagram		11
4-4. Circuit Boards Location		13
4-5. Printed Wiring Boards —CD Section—		14
4-6. Schematic Diagram —CD Section—		17
4-7. Schematic Diagram —Tuner Section—		23
4-8. Printed Wiring Boards —Tuner Section (Except AEP, UK, G, IT model)—		27
4-9. Printed Wiring Boards —Tuner Section (AEP, UK, G, IT model)—		29
4-10. IC Pin Description		34
5. EXPLODED VIEWS		
5-1. Chassis Section		38
5-2. CD Mechanism Section		40
5-3. Optical Pick-Up Block		41
6. ELECTRICAL PARTS LIST		42

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 SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

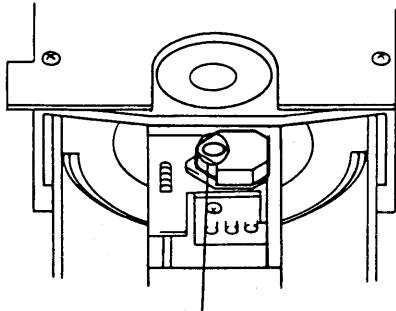
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

LASER DIODE AND FOCUS SERCH OPERATION CHECK

1. Make POWER switch on with no disc inserted and disc table closed.
2. Confirm that the following operation is performed while observing the objective lens.



- Confirm that laser beam is spread.
- Up and down motion of the objective lens. (3 times)

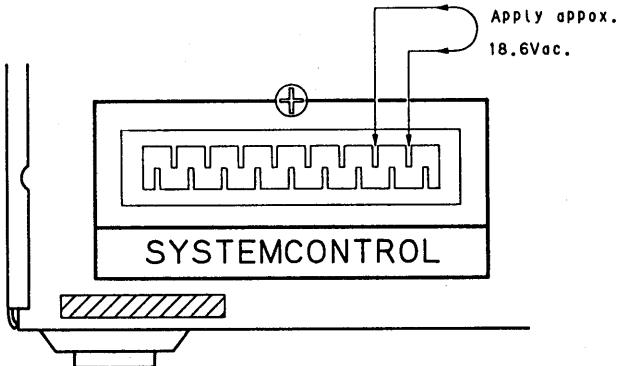
• POWER SUPPLY FOR SERVICING

This set does not have its own power unit. It is operated by power supply from the amplifier (TA-H6800E, TA-H6800N) used in this series. Therefore, when performing service such as continuity repair, connect the set with the amplifier (TA-H6800E, TA-H6800N).

• HOW TO FORCEFULLY TURN POWER ON

The equipment is not provided with any power switch. Therefore, power ON/OFF is controlled in the amplifier side. However, even without an amplifier, power is supplyable to the equipment according to the following methods provided any type of power is available, e.g. using a special jig or supplying the 4 types of voltages individually.

- To activate the compact disc unit, simultaneously press "MODE" switch and "▷" switch. (The tuner unit will stop its function.)
- To activate the tuner unit, simultaneously press "STEREO/MONO" switch and "◀" switch. (The CD unit will stop its function.)



(Connection with the connector on "CDP/TC" unit of the jig (PFJ-1) for CDP-H4600, H6600) allows power supply to the set.)

• SERVICE MODE FOR FL TUBE CHECK

By pressing "BAND" switch and "OPEN/CLOSE" switch at the same time, the FL display tube is totally lit.

• VOLTAGE MEASUREMENT OF THE TUNER/TCB011 BOARD

When performing voltage measurement of the TUNER and TCB011 boards, prepare the following jigs (extension cables) :

- 1) Extension cable for 4-pin application (J-8000-026-A) × 3 lines.
- 2) Extension cable for 8-pin application (J-8000-027-A) × 1 lines.

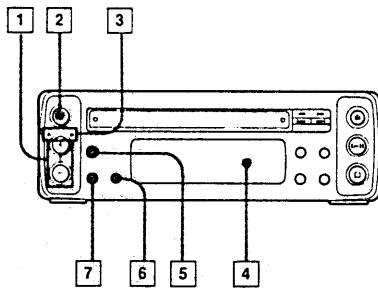
SECTION 2 GENERAL

This section is extracted from instruction manual.

Parts Identification

A

Refer to the pages indicated in () for use of the buttons.



Tuner/CD Player Section A

Tuner

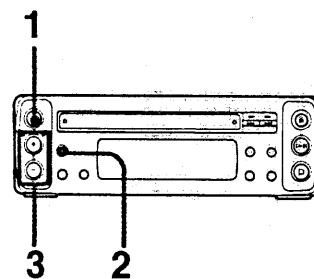
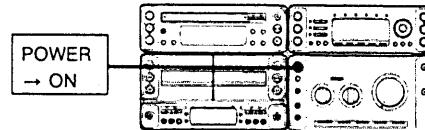
- 1 +/- buttons (54, 56, 58, 60, 62)
- 2 BAND selector (54, 56, 60)
- 3 PRESET/TUNING indicators (54, 56, 60)
- 4 Display window
- 5 MODE button (54, 56, 60)
- 6 MEMORY button (58, 62)
- 7 STEREO/MONO (stereo/monaural) button (56)

CD-player

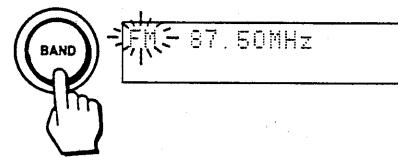
- 8 Disc table
- 9 CD operation buttons
 - △: Open/close of the disc tray
 - ▷II: Play/pause
 - ◀◀◀▶▶▶: Manual search (when kept depressed)/Automatic Music Sensor (when pressed)
 - : Stop
- 10 SHUFFLE button (46, 48)
- 11 CONTINUE button (46, 48, 50)
- 12 PROGRAM button (50, 100)
- 13 EDIT button (92, 96)

Display window B

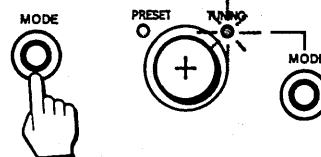
- 14 Frequency and playing time display
- 15 CD selection numbers display
- Preset station number display
- 16 CD status display
- 17 Tuner status display



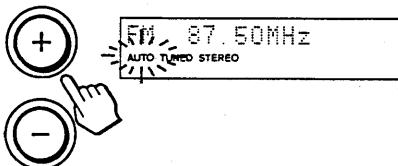
1



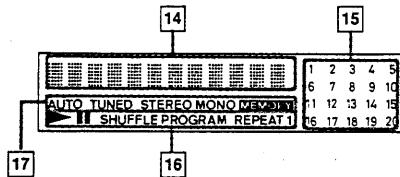
2



3



B



Radio Reception

Automatic tuning allows you to receive stations whose signal is strong enough. When the signal is too weak, use manual tuning.

Tuning in Automatically

This operation is not possible with the remote commander.

- 1 Press BAND repeatedly until the desired band appears.

As you press BAND, the band changes as follows:

Model for U.K. and Europe

(except Germany and Italy):

FM → MW → LW



Model for Germany and Italy:

FM ↔ MW

Model for other countries:

FM → MW → SW

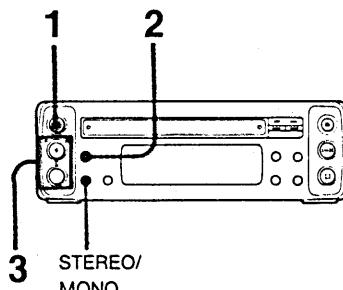


- 2 Press MODE so that the TUNING indicator lights up.

- 3 Keep + or - depressed for more than 1 second.

"AUTO" appears on the display and the unit tunes in a station automatically.

Repeat step 3 until the desired station appears.



Radio Reception

Tuning in Manually

This operation is not possible with the remote commander.

- 1 Press BAND repeatedly until the desired band appears.

- 2 Press MODE so that the TUNING indicator lights up.

- 3 Press + or - repeatedly until the desired station appears.

Indications on the display

TUNED: Appears when a station with sufficient signal strength is tuned in.

STEREO: Appears when an FM stereo program with sufficient signal strength is received.

Antenna adjustment A

For MW/LW/SW reception, find the best location for the supplied AM loop antenna.

When an FM program is noisy or hard to receive

Press STEREO/MONO so that "MONO" appears on the display. There will be no stereo effect, but the reception will be improved. Press the button again to restore the stereo effect.

Changing the MW tuning interval (except for the European and U.K. model and Middle Eastern model)

The MW tuning interval is preset at the factory to 9 kHz.

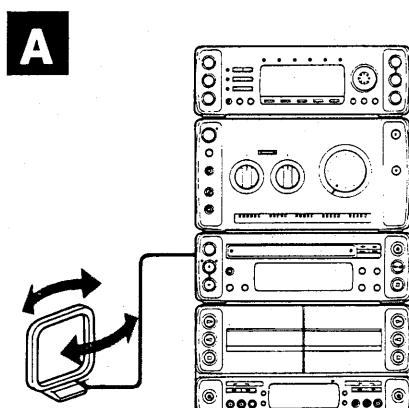
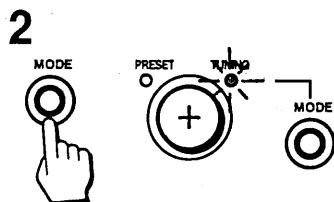
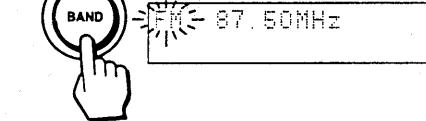
If you use the system where the frequency allocation system is different from the preset interval, change the interval as follows.

- 1 Turn on the power.
- 2 Tune in an MW station.
- 3 Turn off the power.
- 4 Turn the power back on while pressing TUNING +.

To reset the interval, follow the same procedure.

Important

When the interval is changed, stored stations will be erased from the memory.



SECTION 3

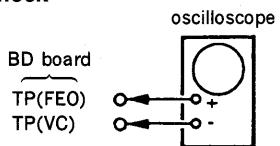
ELECTRICAL ADJUSTMENTS

CD SECTION

Note :

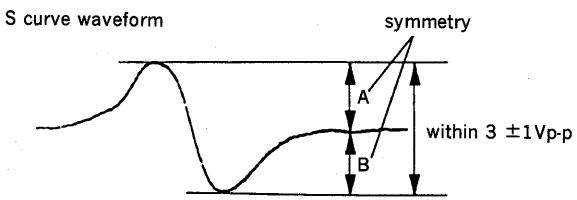
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than $10M\Omega$ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within $3 \pm 1V_{p-p}$.

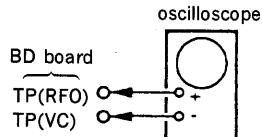


5. After check, remove the lead wire connected in step 2.

Note :

- Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

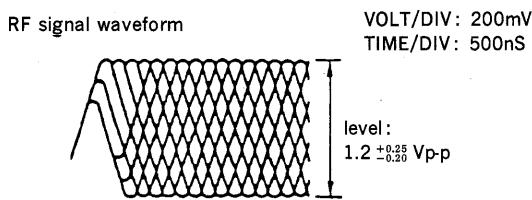


Procedure :

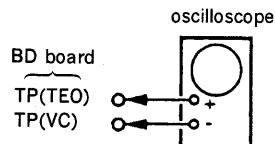
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

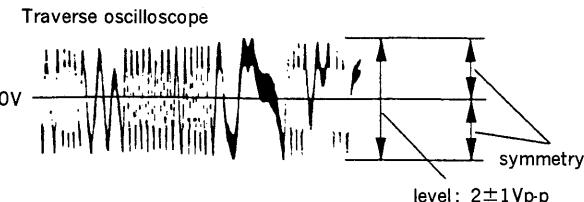


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

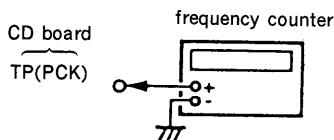


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Focus/Tracking Gain

This gain has a margin, so even if it is slightly off.

There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

TUNER SECTION

Precautions in Repairing

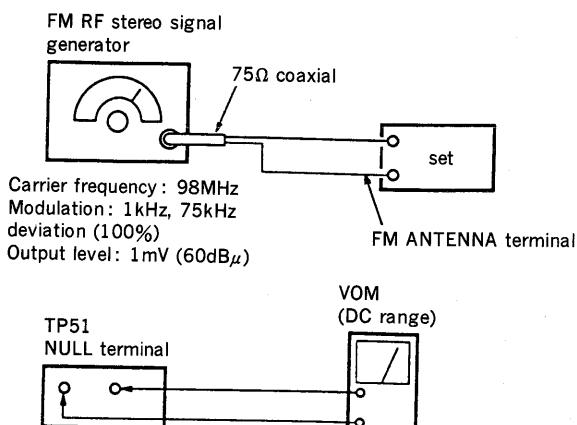
If the front end unit fails, it is difficult to repair the inner circuits, so replace the entire front end unit.

• FM SECTION

FM Discriminator Adjustment (NULL Adjustment)

Setting :

BAND : FM



Procedure :

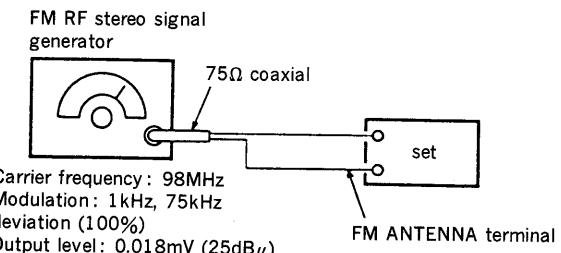
1. Tune the set to 98MHz.
2. Adjust IFT51 for 0V reading on the VOM.

Note : FM Tuning Level adjustment should be made after FM discriminator alignment.

FM Tuning Level Adjustment

Setting :

BAND : FM



Procedure :

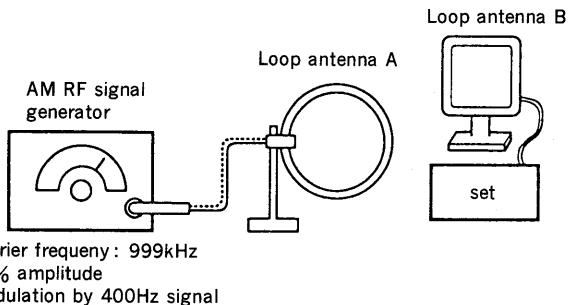
1. Tune the set to 98MHz.
2. Adjust RV52 so that the TUNED indicator goes on.

• AM SECTION

AM Tuning Level Adjustment

Setting :

BAND : MW



Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 58dB μ /m (0.8m V/m)
2. Tune the set to 999kHz.
3. Adjust the RV51 so that the TUNED indicator goes on.

• SW SECTION (EXCEPT AEP, UK, G, IT MODEL)

SW OSC Voltage Adjustment

Setting :

BAND : SW

Procedure :

1. Connect digital voltmeter to front end FE1 pin ⑤ (VT) and ground.
2. Adjust for a following value reading on digital voltmeter.

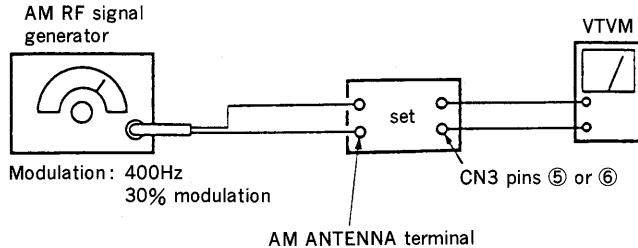
Set frequency	Adjustment part	Reading on digital voltmeter
f min. 5.95MHz	T2	0.9 to 1.1V
f max. 17.9MHz	CV2	8.3 to 8.7V

SW Tracking Adjustment

Setting :

BAND : SW

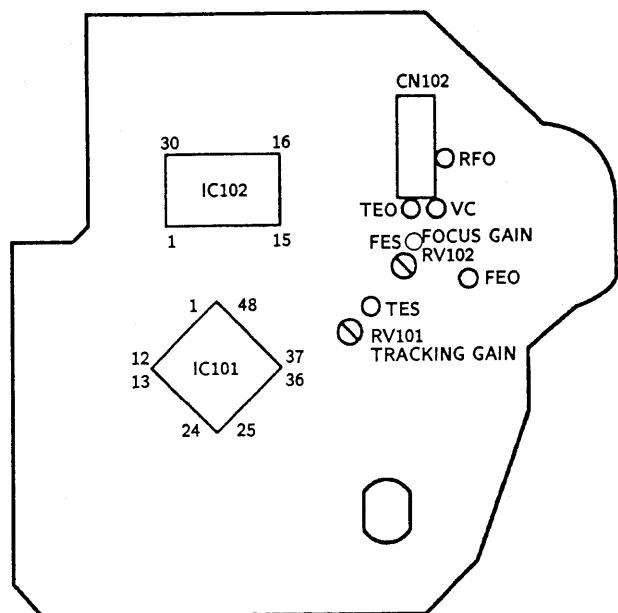
AM RF signal generator



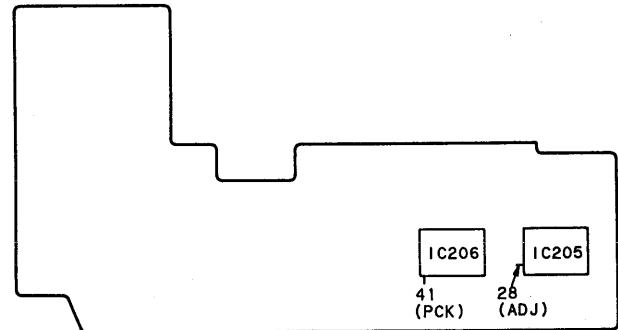
Adjust for a maximum reading on VTVM.	
7MHz	T1
17MHz	CV1

Adjustment Location :

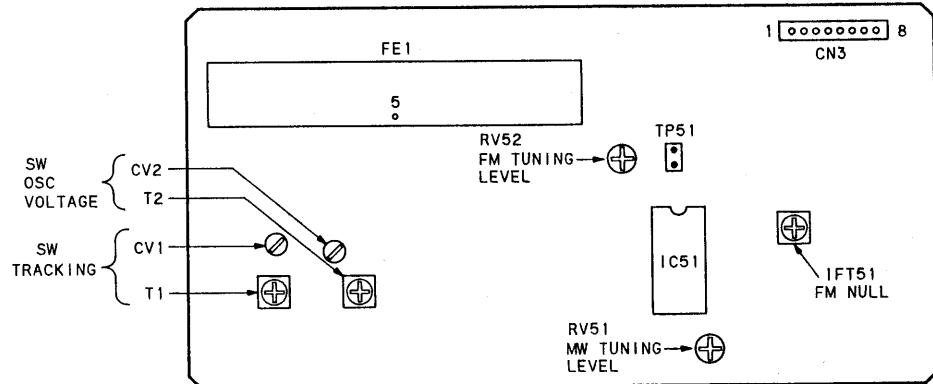
【BD Board】 —Conductor Side—



【CD Board】 —Conductor Side—

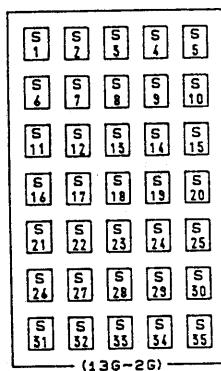
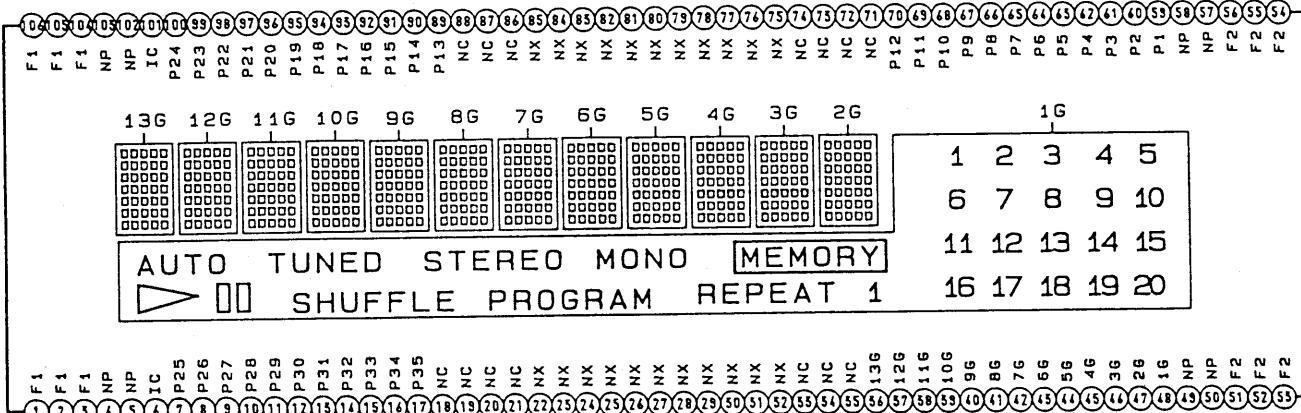


【TCB011 Board】 —Component Side—



SECTION 4 DIAGRAMS

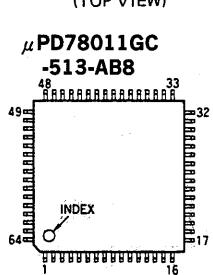
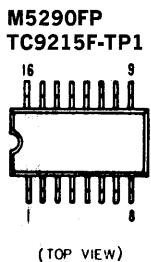
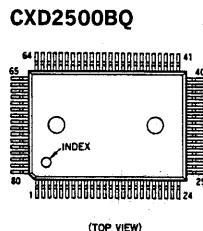
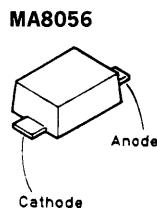
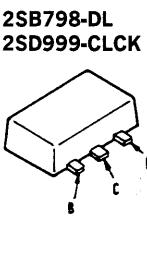
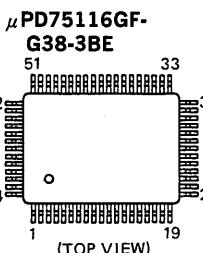
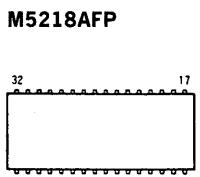
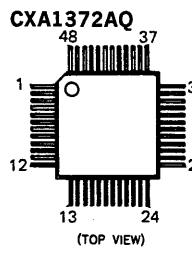
4-1. FL601 (Fluorescent Indicator Tube)



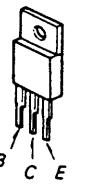
• Positive pole connect table

	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S1	1											
P2	S2	2											
P3	S3	3											
P4	S4	4											
P5	S5	5											
P6	S6	6											
P7	S7	7											
P8	S8	8											
P9	S9	9											
P10	S10	10											
P11	S11	11											
P12	S12	12											
P13	S13	13											
P14	S14	14											
P15	S15	15											
P16	S16	16											
P17	S17	17											
P18	S18	18											
P19	S19	19											
P20	S20	20											
P21	S21	▷											
P22	S22	II											
P23	S23	SHUFFLE											
P24	S24	PROGRAM											
P25	S25	REPEAT											
P26	S26	1 (REPEAT)											
P27	S27	AUTO											
P28	S28	TUNED											
P29	S29	STEREO											
P30	S30	MONO											
P31	S31	MEMORY											
P32	S32	—											
P33	S33	—											
P34	S34	—											
P35	S35	—											

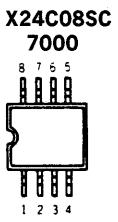
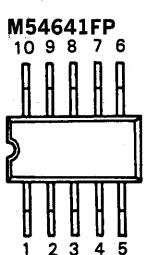
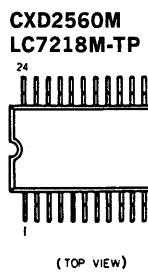
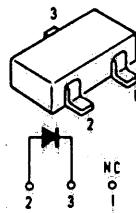
4-2. SEMICONDUCTOR LEAD LAYOUTS



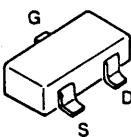
**2SB1094-LK
2SD2012**



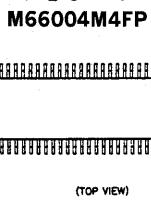
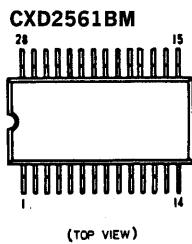
**UZM10X
UZM11B
UZM3.9B
UZM4.7B**



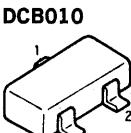
2SK208-GR3



1SS226

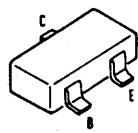
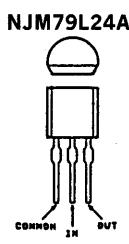
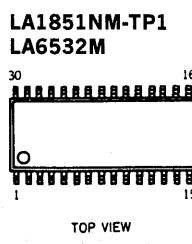


**DTC144EK
2SA1602
2SC1623-L5L6
2SC2814-F4
2SC3398
2SC3900
2SC4154-F
2SC4666B**

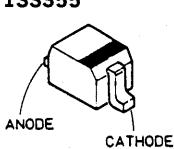


DCB010
 1 : CATHODE
 2 : ANODE
 3 : ANODE

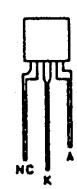
10E2
 CATHODE
 ANODE



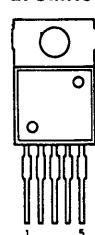
**DTZ5.6B
1SS355**



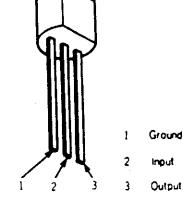
SML1260S



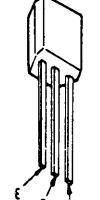
L78MR05



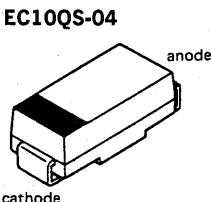
PST572C



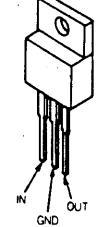
2SA1344



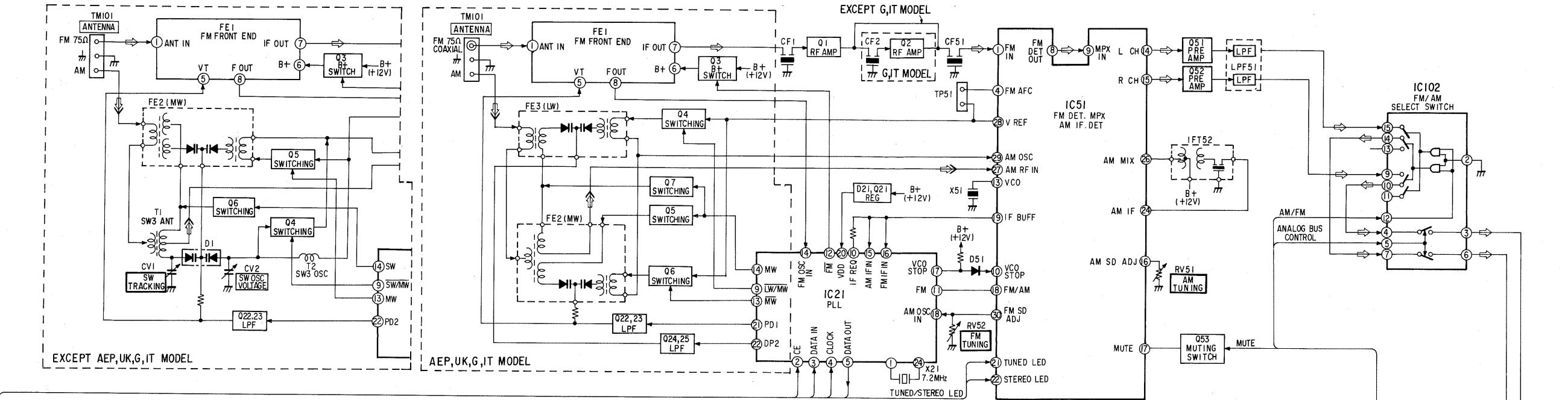
**2SA1678
2SC4398**



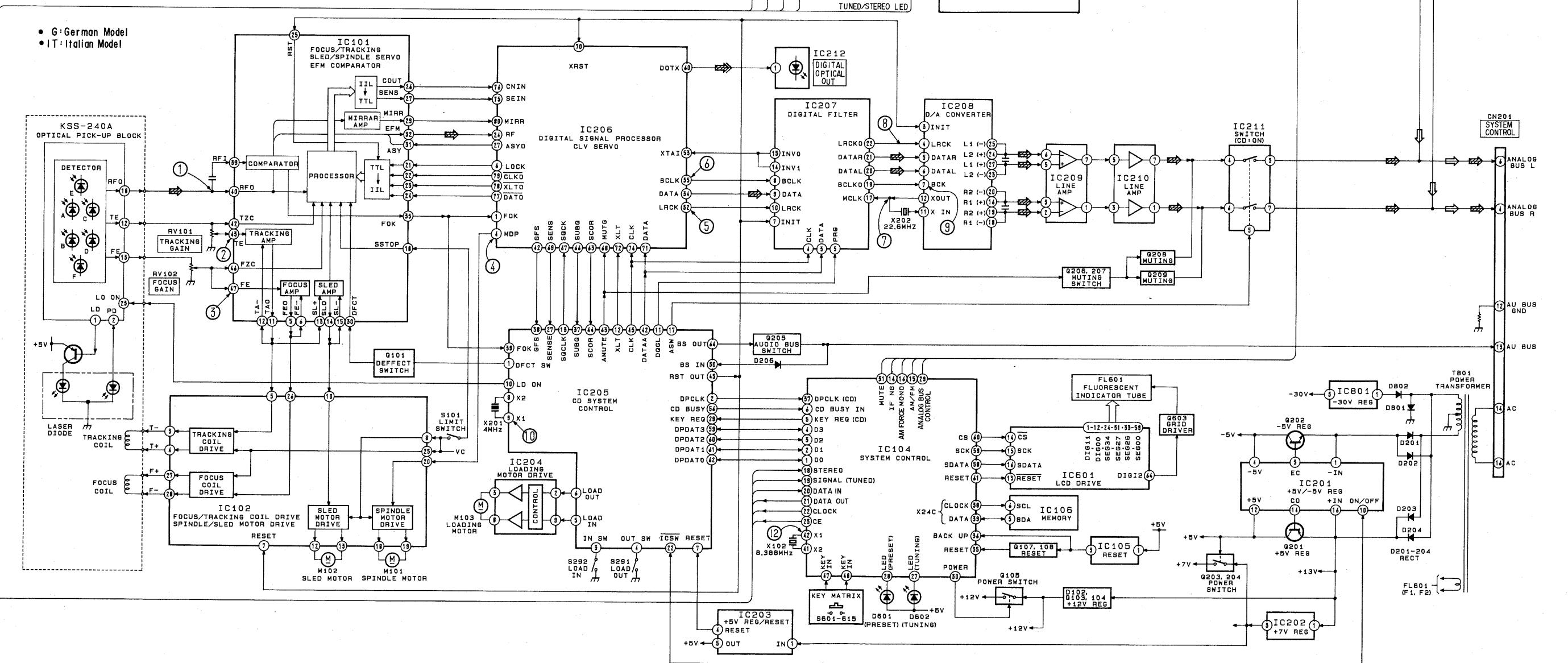
μPC2407HF



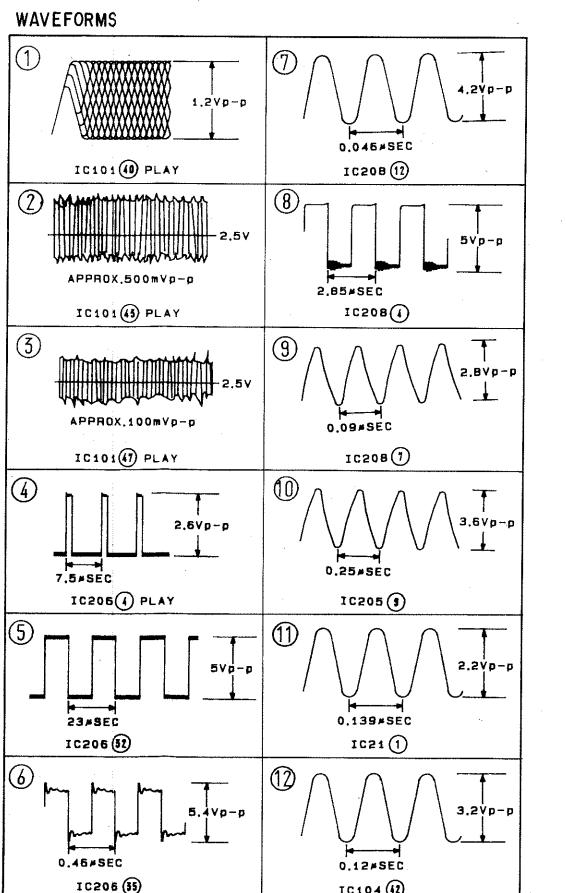
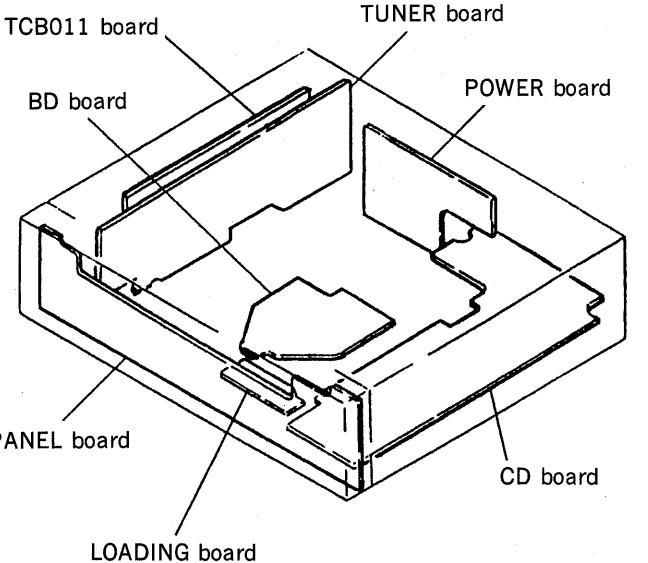
4-3. BLOCK DIAGRAM



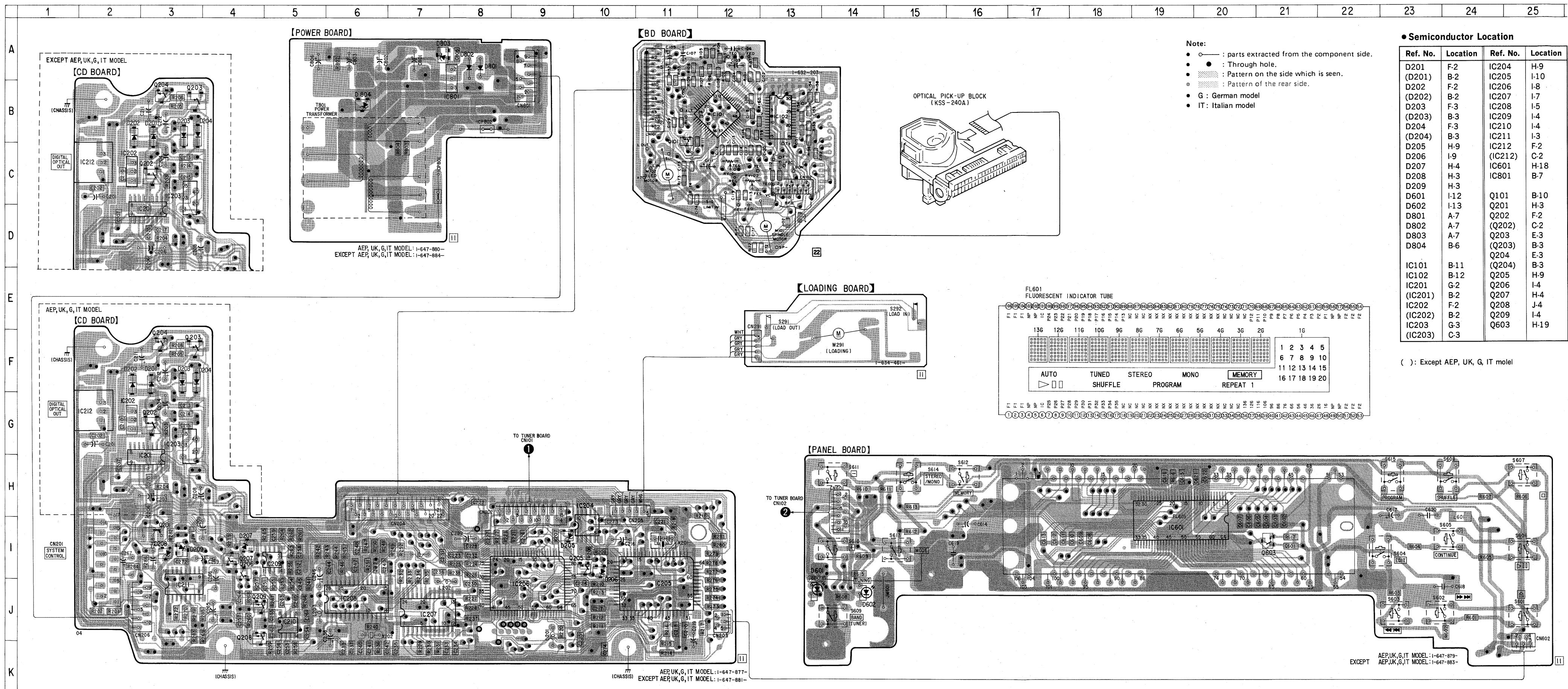
- Signal path
- : FM
- ⇒ : MW
- ↔ : CD
- ⇄ : DIGITAL OUT



4-4. CIRCUIT BOARDS LOCATION



4-5. PRINTED WIRING BOARDS —CD SECTION— • Refer to page 10 for Semiconductor Lead Layouts.



Note:

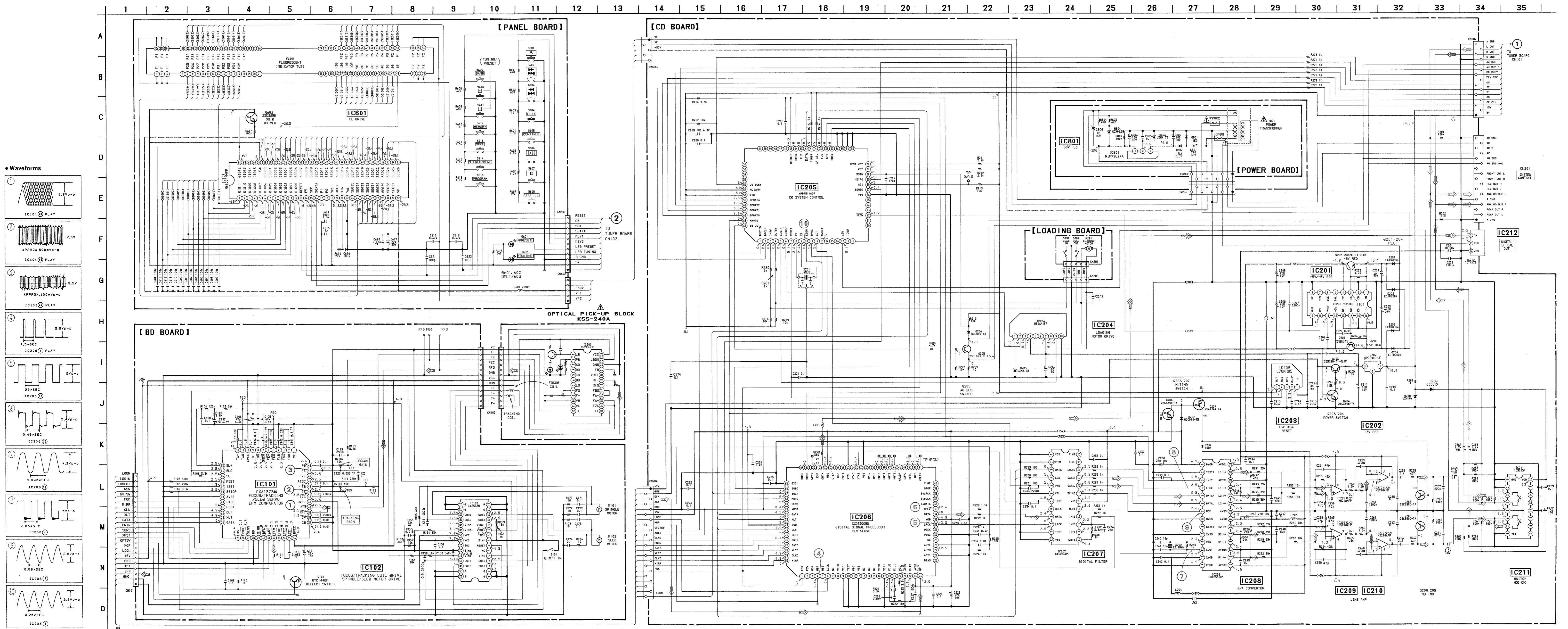
- All capacitors are in μ F unless otherwise noted. pF: $\mu\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/2$ W or less unless otherwise specified.
- \triangle : internal component.

Note:
Les composants identifiés par une marque \triangle ou doté d'une ligne avec une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

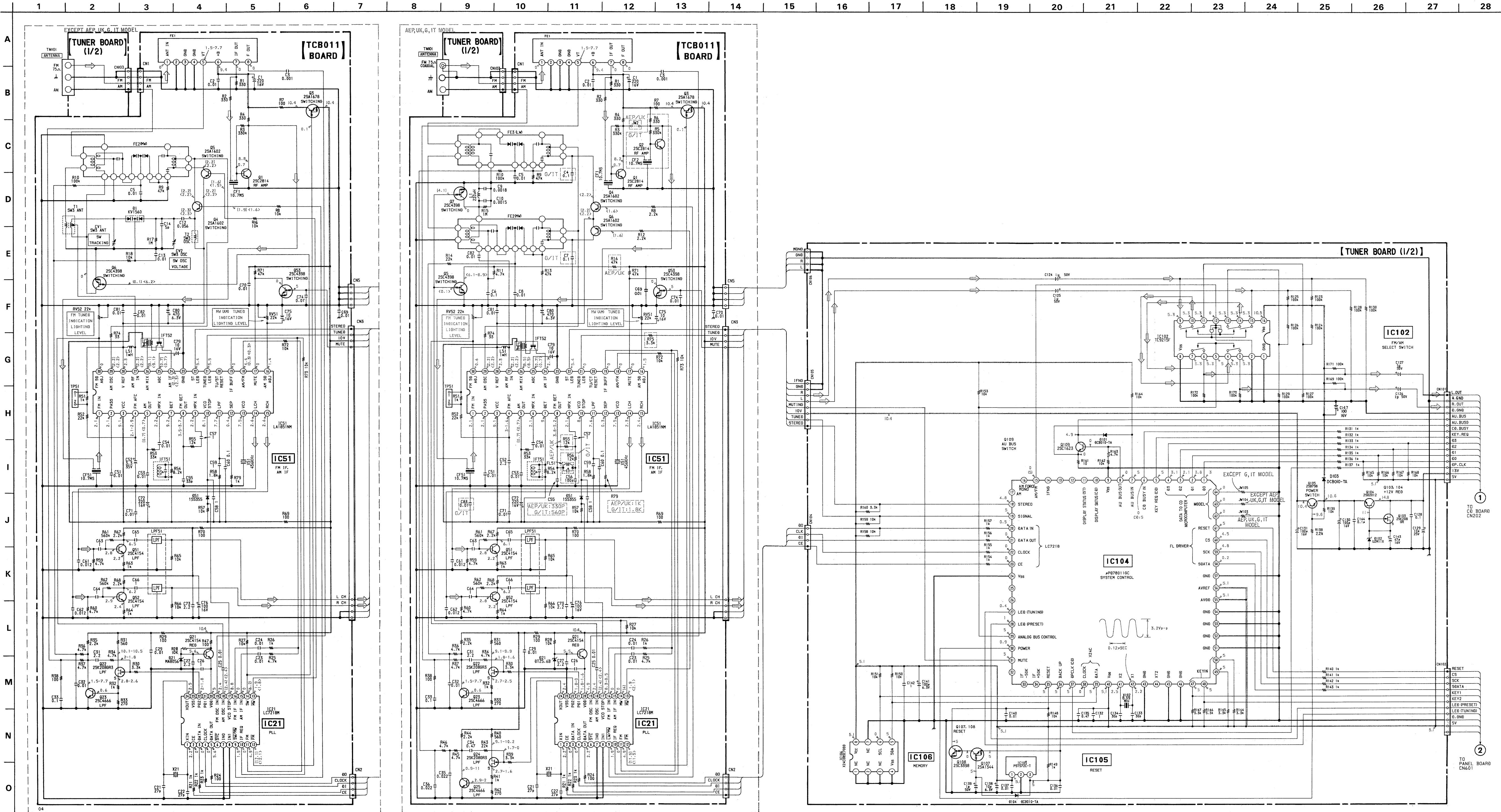
Signal path:

- \circ : B+ Line
- \square : B- Line
- \square : adjustment for repair.
- \circ : Voltage and waveforms are dc with respect to ground under no-signal conditions.
- \triangle : STOP
- \square : Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- \square : Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- \square : Circled numbers refer to waveforms.

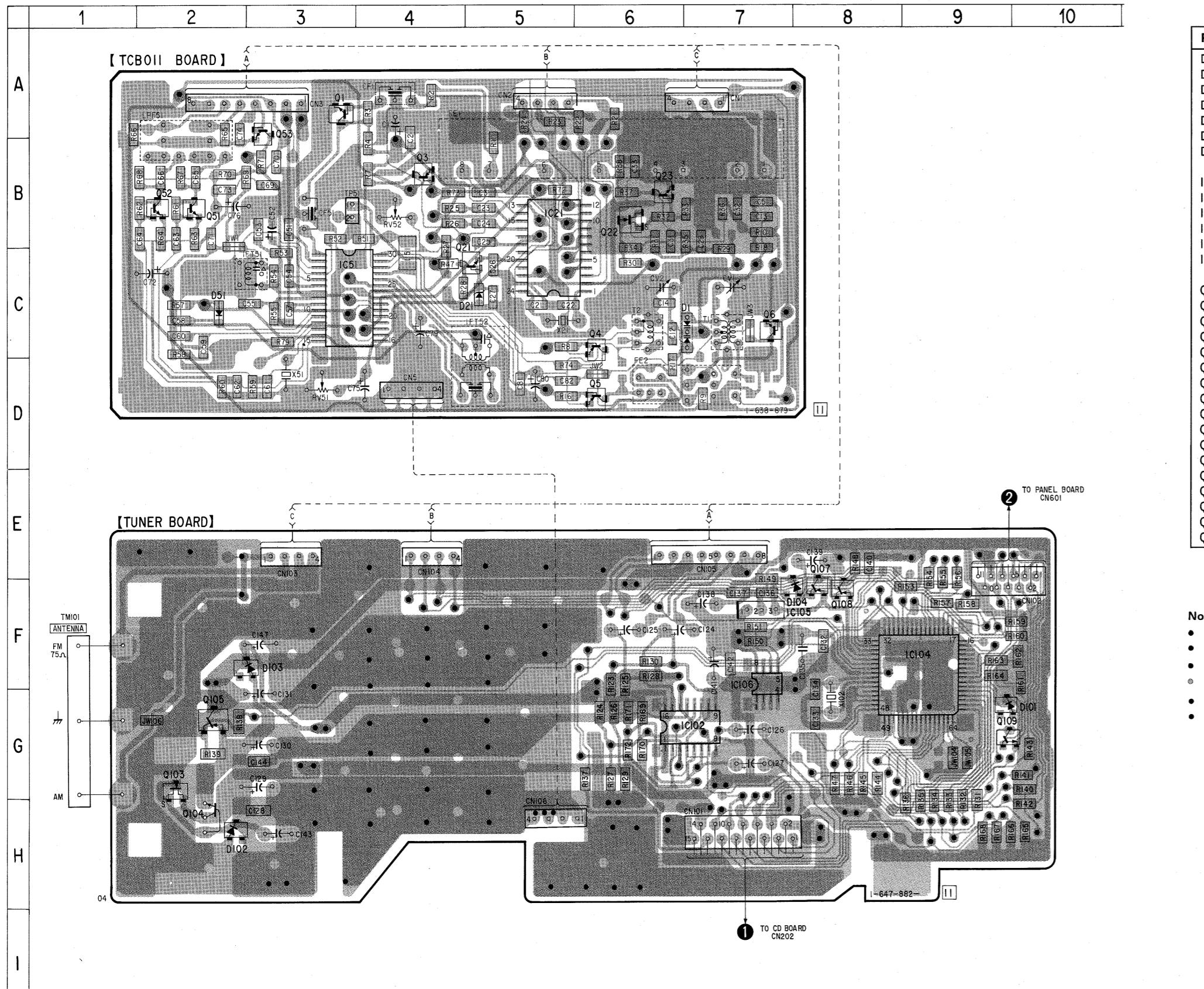
4-6. SCHEMATIC DIAGRAM —CD SECTION— • Refer to page 31 for IC Block Diagrams.



4-7. SCHEMATIC DIAGRAM —TUNER SECTION— • Refer to page 31 for IC Block Diagrams.



4-8. PRINTED WIRING BOARDS —TUNER SECTION (EXCEPT AEP, UK, G, IT MODEL)— • Refer to page 10 for Semiconductor Lead Layouts.

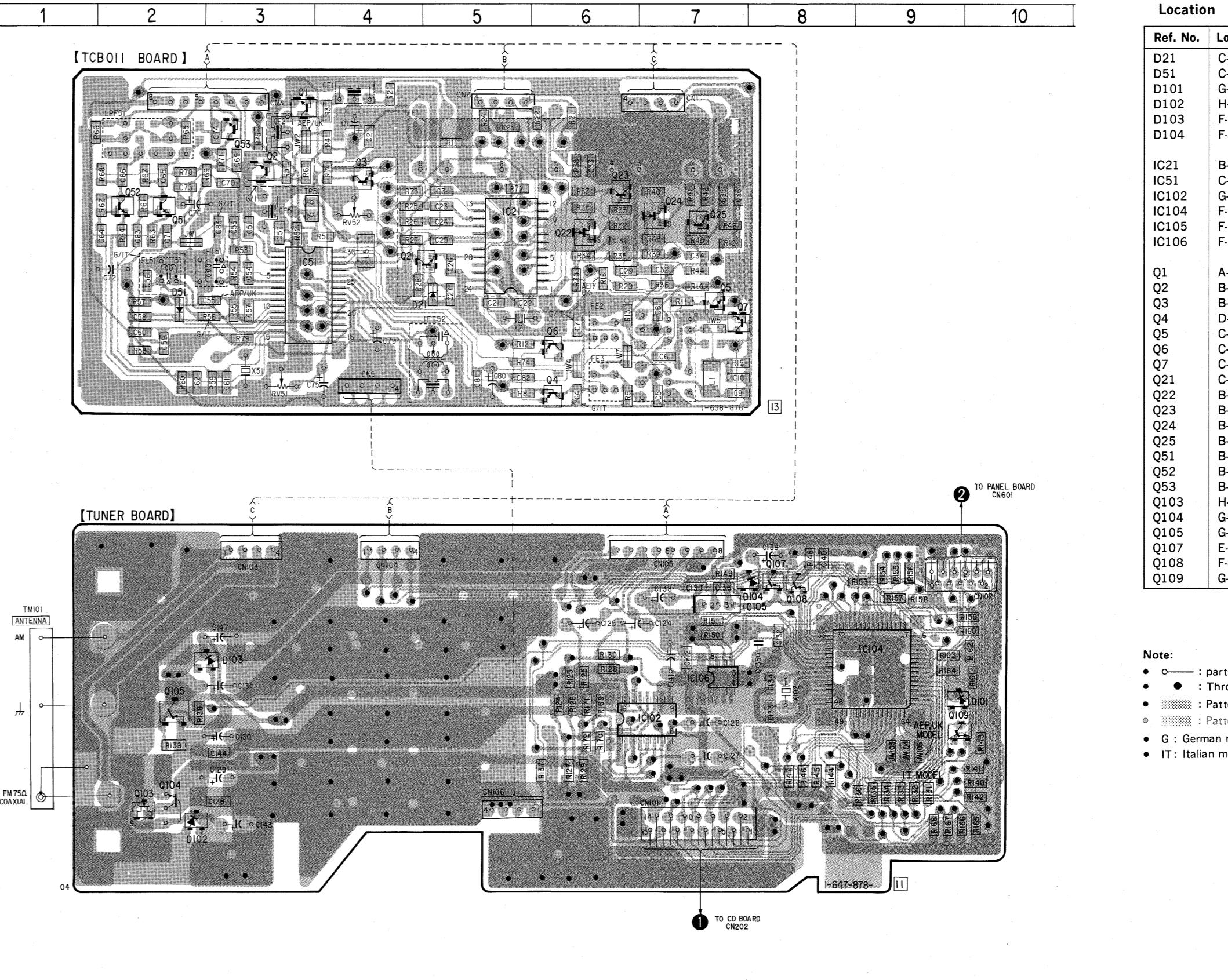


• Semiconductor
Location

Ref. No.	Location
D1	C-6
D21	C-4
D51	C-2
D101	G-10
D102	H-2
D103	F-3
D104	F-8
IC21	B-5
IC51	C-3
IC102	G-7
IC104	F-9
IC105	F-8
IC106	F-7
Q1	A-3
Q3	B-4
Q4	C-6
Q5	D-6
Q6	C-7
Q21	C-4
Q22	B-6
Q23	B-6
Q51	B-2
Q52	B-2
Q53	A-3
Q103	G-2
Q104	H-2
Q105	G-2
Q107	E-8
Q108	F-8
Q109	G-9

Note:
 • ○ : parts extracted from the component side.
 • ● : Through hole.
 • ▨ : Pattern on the side which is seen.
 • ▨ : Pattern of the rear side.
 • G : German model
 • IT : Italian model

4-9. PRINTED WIRING BOARDS —TUNER SECTION (AEP, UK, G, IT MODEL)—



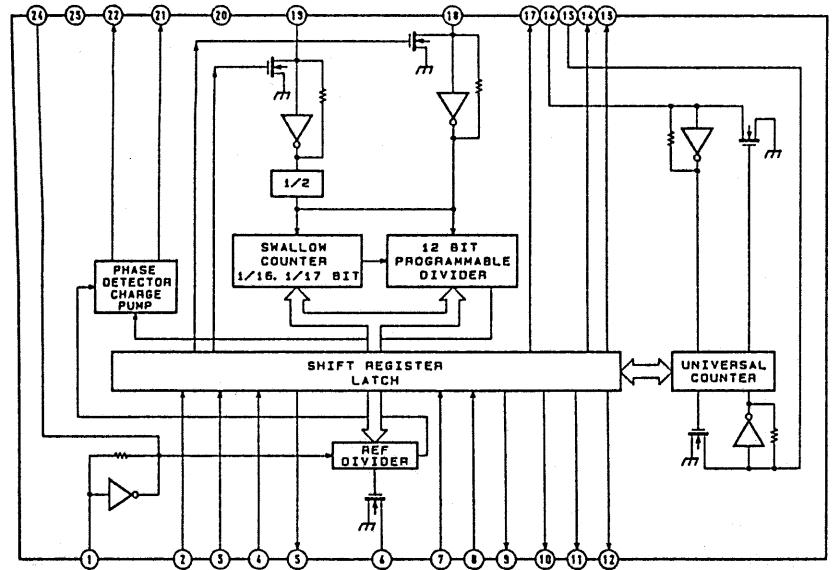
• Semiconductor
Location

Ref. No.	Location
D21	C-4
D51	C-2
D101	G-9
D102	H-2
D103	F-3
D104	F-8
IC21	B-5
IC51	C-3
IC102	G-7
IC104	F-9
IC105	F-8
IC106	F-7
Q1	A-3
Q2	B-3
Q3	B-4
Q4	D-6
Q5	C-7
Q6	C-6
Q7	C-7
Q21	C-4
Q22	B-6
Q23	B-6
Q24	B-7
Q25	B-7
Q51	B-2
Q52	B-2
Q53	B-3
Q103	H-2
Q104	G-2
Q105	G-2
Q107	E-8
Q108	F-8
Q109	G-9

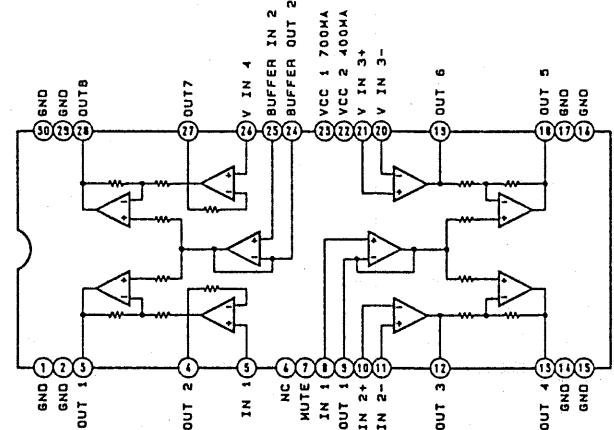
Note:
 • ○ : parts extracted from the component side.
 • ● : Through hole.
 • ▨ : Pattern on the side which is seen.
 • ▨ : Pattern of the rear side.
 • G : German model
 • IT : Italian model

• IC Block Diagrams

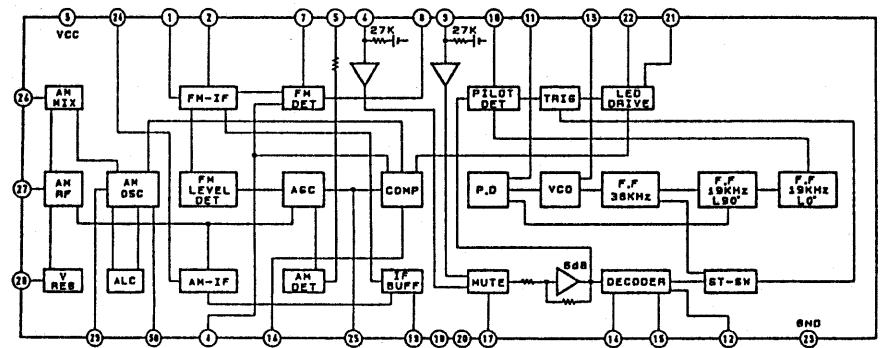
IC21 LC7218M



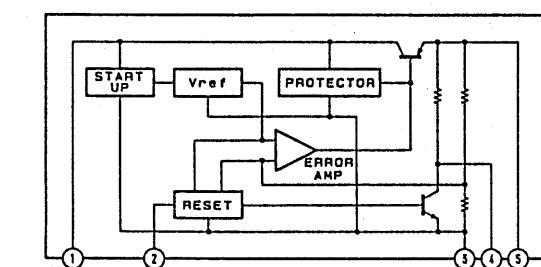
IC102 LA6532M



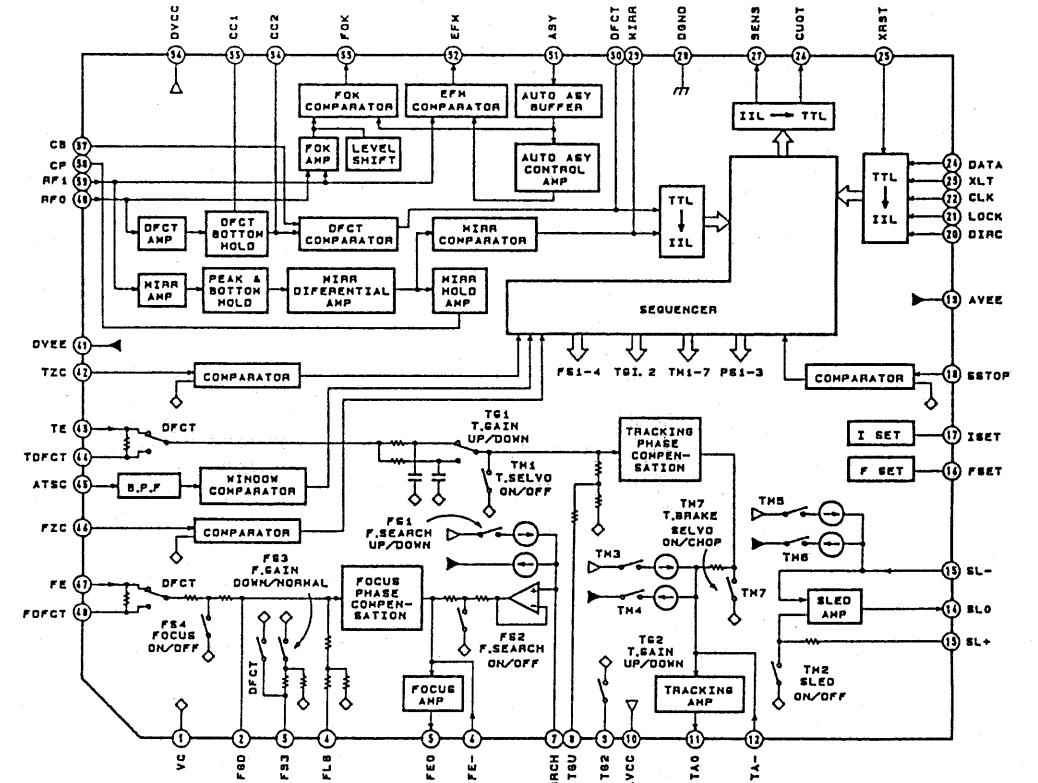
IC51 LA1851NM



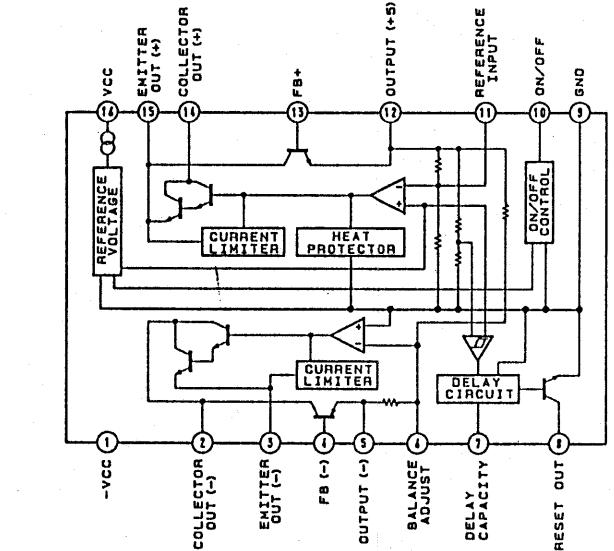
IC203 L78MR05



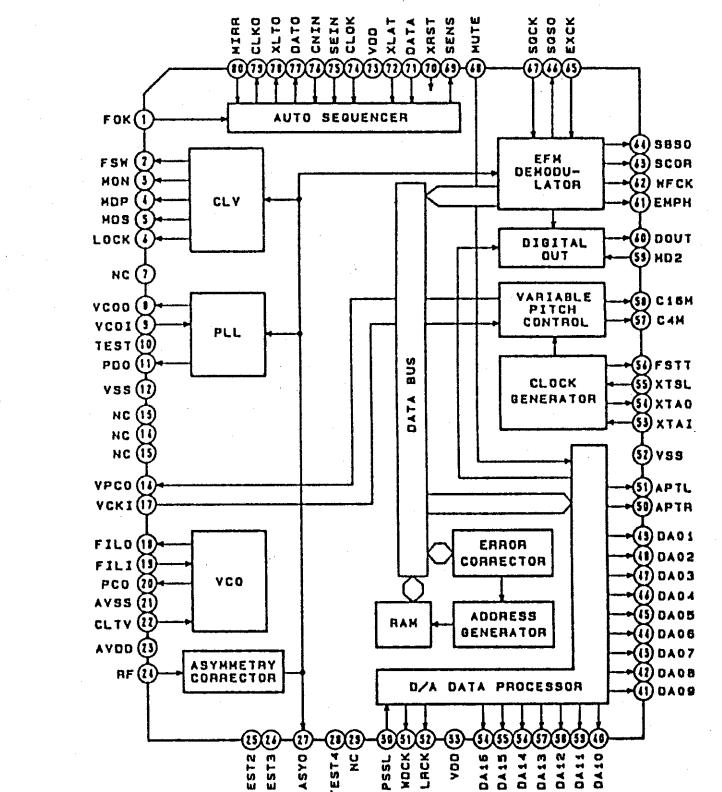
IC101 CXA1372AQ



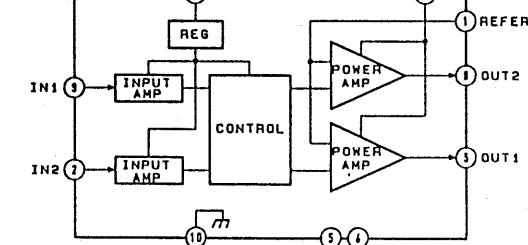
IC201 M5290FP



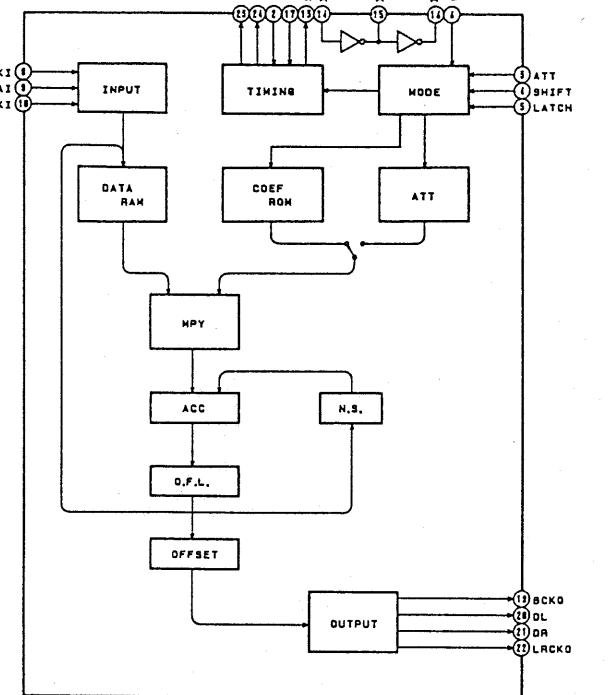
IC206 CXD2500BQ



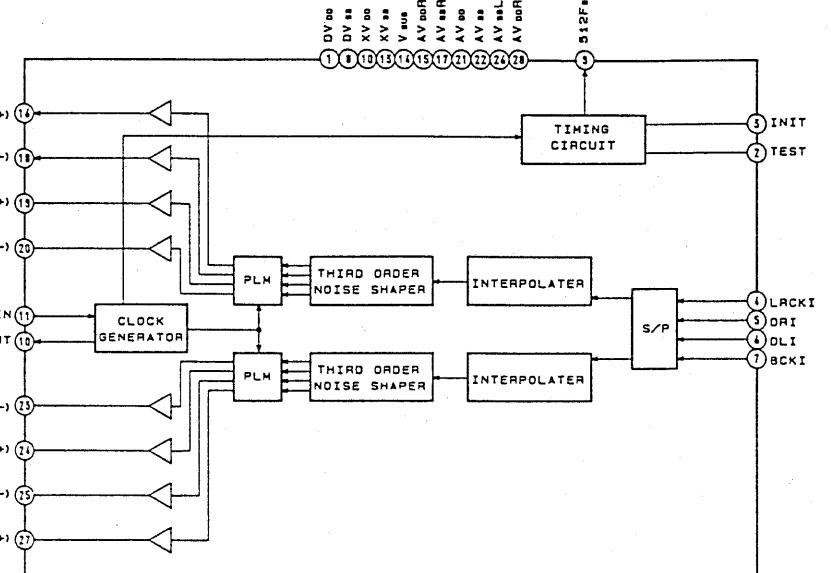
IC204 M54641FP



IC207 CXD2560M



IC208 CXD2561BM



4-10. IC PIN DESCRIPTION

- IC104 tuner system controller (μ PD78011GC-508-AB8)

Pin No.	Signal Name	I/O	Function
1	D0	I/O	Pin for data input/output from and to IC205 (CD system controller).
2	D1	I/O	Pin for data input/output from and to IC205 (CD system controller).
3	D2	I/O	Pin for data input/output from and to IC205 (CD system controller).
4	D3	I/O	Pin for data input/output from and to IC205 (CD system controller).
5	KEY REQ (CD)	O	Key data output timing. (CD)
6	CD BUSY Input	I	Input of CD state.
7	AU BUS Input	I	Audio bus input.
8	AU BUS Output	O	Audio bus output.
9	V _{ss}	—	Grounding pin.
10	Display Status (CD)	O	Not used in this set (open).
11	Display Status (ST)	O	Not used in this set (open).
12			Not used in this set (open).
13			Not used in this set (open).
14	IFOK	O	Not used in this set (open).
15	AM/FM	O	FM/AM changeover output. "L" for FM, "H" for AM.
16	AM Forced Monaural	O	Not used in this set (open).
17	AM	O	Not used in this set (open).
18	STEREO	I	STEREO input.
19	SIGNAL	I	SIGNAL input.
20	DATA Input	I	Data input from IC21 (PLL).
21	DATA Output	O	Data output to IC21 (PLL).
22	CLOCK	O	CLOCK output to IC21 (PLL).
23	CE	O	CE output to IC21 (PLL).
24	V _{ss}	—	Grounding pin.
25			Not used in this set (open).
26			Not used in this set (open).
27	LED (TUNING)	O	Tuner "+"/"" key mode LED output.
28	LED (PRESET)	O	Tuner "+"/"" key mode LED output.
29	Analog Bus Control	O	Analog bust control output to IC102 (TC9215F-TP1).
30	POWER	O	Power output. "L" for ON, "H" for OFF.
31	MUTE	O	Muting output. "L" for ON, "H" for OFF.
32			Not used in this set (open).
33	IF -50K	I	IF offset input.
34	IF +50K	I	IF offset input.
35	RESET	I	Reset input.
36	BACK UP	I	Backup input.
37	DPCLK (CD)	I	CD display data timing input.
38	CLOCK	O	CLOCK output to IC106 (MEMORY).
39	DATA	I/O	Data input/output from and to IC106 (MEMORY).
40	V _{DD}	—	Power pin (+5V).
41	X2		Main clock.
42	X1	I	Main clock (8.38MHz).
43	GND	—	Grounding pin.

Pin No.	Signal Name	I/O	Function
44	XT2	—	Not used in this set (open).
45	GND	—	Grounding pin.
46	GND	—	Grounding pin.
47	Key Input	I	Key input.
48	Key Input	I	Key input.
49	Key Input	I	Not used in this set (+5V).
50	Key Input	I	Not used in this set (+5V).
51	GND	—	Grounding pin.
52	GND	—	Grounding pin.
53	GND	—	Grounding pin.
54	GND	—	Grounding pin.
55	AV _{PD}	—	Power pin (+5V).
56	AV _{REF}	—	Power pin (+5V).
57	GND	—	Grounding pin.
58	SDATA	O	Data output to IC601 (FL driver).
59	SCK	O	CLOCK output to IC601 (FL driver).
60	CS	O	CS output to IC601 (FL driver).
61	RESET	O	Reset output to IC601 (FL driver).
62	Destination	I	Destination discrimination input
63	Destination	I	Destination discrimination input
64	Destination	I	Destination discrimination input

•IC205 CD system controller (μ PD75116GF-G38-3BE)

This controller provides control of the CD unit IC101 (RF signal processing, servo), IC102 (DSP, digital filter) and loading, data exchange with IC104 (system controller), and audio bus input.

Pin No.	Signal Name	I/O	Function
1	DFCTSW	O	IC101 (CXA1372Q) DEFECT circuit ON/OFF switching output.
2	DPCLK	O	Display data load clock output to IC104 (μ PD76011CC-506-AB6).
3	INSW	I	S292 (loading-in switch) input.
4	OUTSW	I	S291 (loading-out switch) input.
5	LODIN	O	Output used to rotate M291 (loading motor) in the loading-in direction. *1
6	LODOUT	O	Output used to rotate M291 (loading motor) in the loading-out direction. *1
7	RESET	I	System reset input.
8	X2	I	Clock input.
9	X1	I	Clock input. (4MHz)
10	LDON	O	Optical pickup laser diode ON/OFF switching output. "H" for ON.
11	PRGL	O	Latch output to IC207 (digital filter).
12	XLT	O	Serial data latch output to IC206 (CXD2500BQ).
13	SQCLK	O	Subcode Q data read clock output to IC206 (CXD2500BQ).
14			Not used in this set (open).
15			Not used in this set (open).
16			Not used in this set (open).
17	ANASW	O	IC211 (TC9215F-TP1) analog bus control signal output.
18	ICSW	I/O	CD power control pin. OFF by 0 output, ON by input (high impedance state).
19			Not used in this set (open). (The same function as ICSW.)

Pin No.	Signal Name	I/O	Function	
20			Not used in this set (open). (The same function as ICSW.)	
21			Not used in this set (open). (The same function as ICSW.)	
22	IVICSW	I/O	CD power control pin. OFF by input (high impedance state), ON by 0 output.	
23			Not used in this set (open). (The same function with IVICSW.)	
24			Not used in this set (open). (The same function with IVICSW.)	
25			Not used in this set (open). (The same function with IVICSW.)	
26	Vss		Grounding pin.	
27	SENSE	I	SENSE input from IC206 (CXD2500BQ).	
28	ADJ	I	CD test mode input 1, "L" to inhibit GFS check to allow the spindle to rotate even if the frame sync does not appear during PLAY, PAUSE and SEARCH.	
29	KEYRQ	I	Key code fetch trigger for key code from IC104 (μ PD78012GC-508-AB8). (One key allows four falls.)	
30	BSIN	I	Audio bus input.	
31	ADKEY	I	AD key input pin.	It is assumed that electrical adjustment is made with a CD only (without tuner microcomputer). (Usually 5V pull-up)
32	ADSEL	I	AD key input permission select pin.	
33			Not used in this set (GND).	
34			Not used in this set (GND).	
35			Not used in this set (GND).	
36			Not used in this set (GND).	
37	SUBQ	I	Subcode Q data input from IC206 (CXD2500BQ).	
38	GFS	I	GFS signal input from IC206 (CXD2500BQ). "L" for NG, "H" for OK.	
39	FOK	I	Focus OK signal input from IC101 (CXA1372Q). "H" for OK.	
40	AFADJ	I	CD test mode input 2.	
41	DACSW	I	IC208 (D/A converter) select pin. Set DACSW to 1 to select CXD2561. Set DACSW to 0 to select CXD2562.	
42	DATAA	O	Serial data output to IC206 (CXD2500BQ), IC207 (CXD2560M).	
43	CLK	O	Serial data load clock output to IC206 (CXD2500BQ), IC207 (CXD2560M).	
44	SCOR	I	Subcode sync S0 plus S1 detection input from IC206 (CXD2500BQ).	
45	RSTOUT	O	Reset output to peripheral ICs.	
46			Not used in this set (open).	
47			Not used in this set (open).	
48			Not used in this set (open).	
49			Not used in this set (open).	
50			Not used in this set (open).	
51			Not used in this set (open).	
52			Not used in this set (open).	
53			Not used in this set (open).	
54			Not used in this set (open).	
55			Not used in this set (open).	
56	CDBUSY	O	CD ON sets this "H".	
57	NC	—	Not used in this set (+5V).	
58	V _{DD}	—	Power pin (+5V).	
59	DPDAT 3	I/O	Data input from and display data output to IC104 (μ PD78012GC-AB8).	
60	DPDAT 2	I/O	Data input from and display data output to IC104 (μ PD78012GC-AB8).	
61	DPDAT 1	I/O	Data input from and display data output to IC104 (μ PD78012GC-AB8).	
62	DPDAT 0	I/O	Data input from and display data output to IC104 (μ PD78012GC-AB8).	

Pin No.	Signal Name	I/O	Function
63	AMUTE	O	Muting control output. "H" for muting.
64	BSOUT	O	Audio bus output pin.

*1 Loading motor control

	IN	OUT	BRAKE
LOG OUT ⑥	L	H	H
LOG IN ⑤	H	L	H

SECTION 5 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

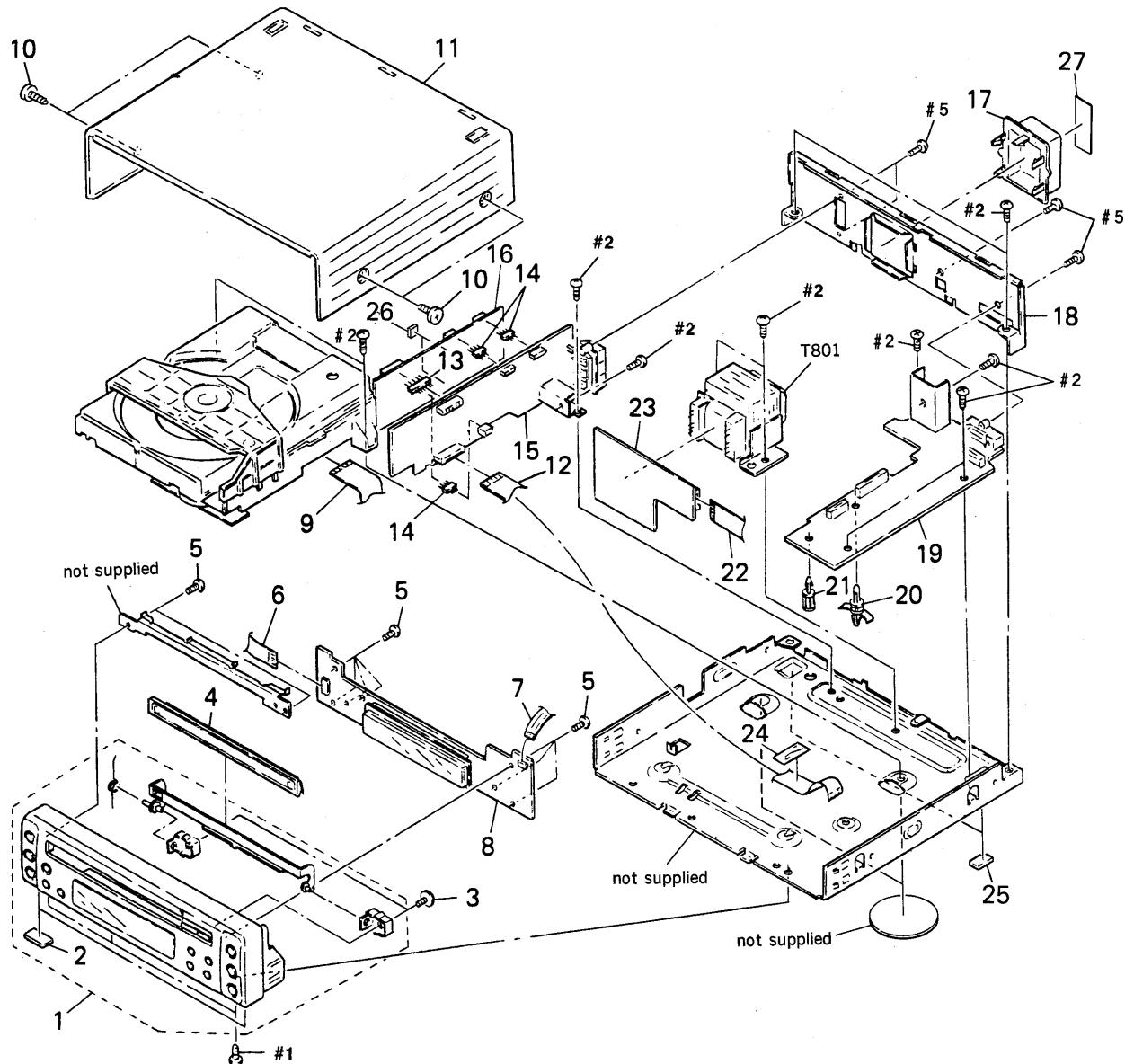
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example :
 KNOB, BALANCE (WHITE)... (RED)
 ↑ ↑
 Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

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

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- G : German
- IT : Italian

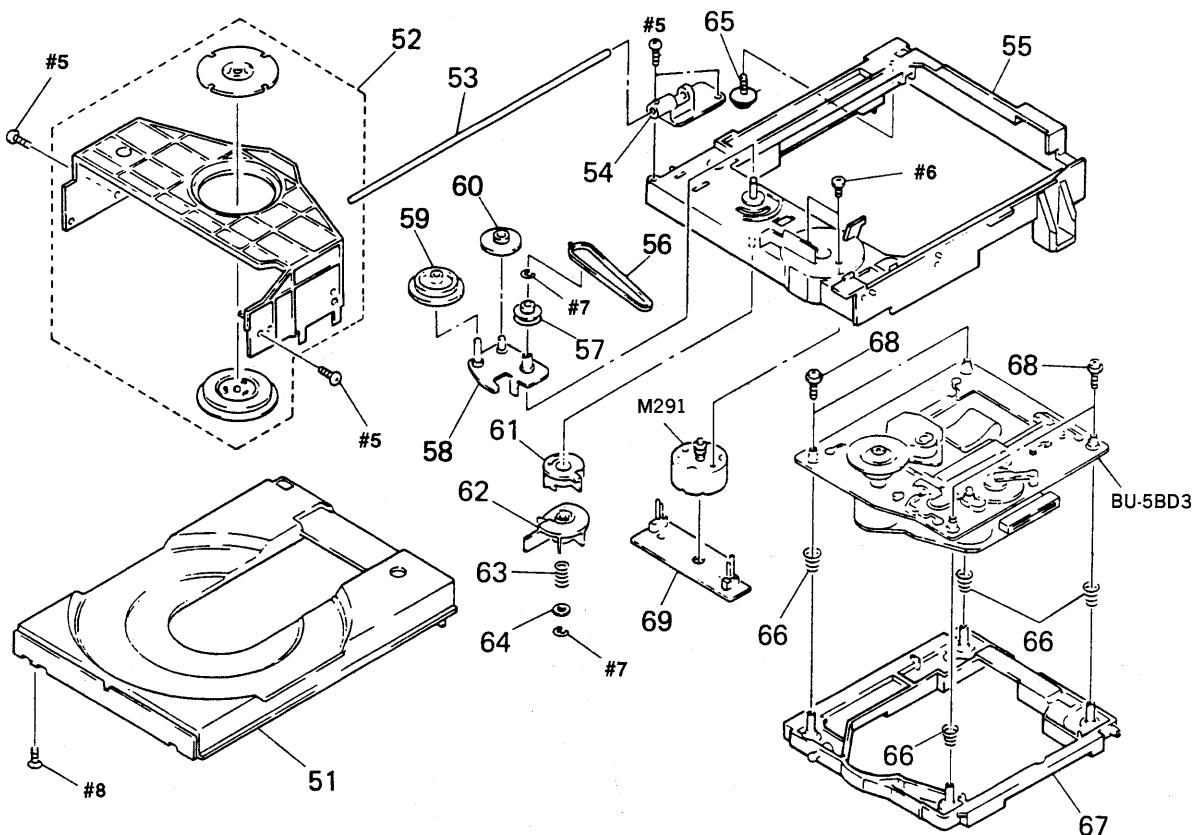
5-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	X-4942-891-1	PANEL ASSY, FRONT	
2	4-930-336-31	FOOT (FELT)	
3	4-933-134-01	SCREW (+PTPWH M2.6X6)	
4	4-954-211-01	PANEL, LOADING	
5	4-951-620-01	SCREW (2.6X8), +BVTP	
6	1-696-739-11	WIRE (FLAT TYPE) (11 CORE)	
7	1-696-738-11	WIRE (FLAT TYPE) (5 CORE)	
* 8	A-4360-267-A	PANEL BOARD, COMPLETE (AEP, UK)	
* 8	A-4360-271-A	PANEL BOARD, COMPLETE (IT)	
* 8	A-4360-275-A	PANEL BOARD, COMPLETE (G)	
* 8	A-4360-279-A	PANEL BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	
9	1-690-753-11	WIRE (FLAT TYPE) (22 CORE)	
10	3-363-099-21	SCREW (CASE 3 TP2)	
* 11	4-954-198-01	CASE	
12	1-696-740-11	WIRE (FLAT TYPE) (15 CORE)	
* 13	1-695-810-11	CONNECTOR, PC BOARD (PLUG) 8P	
* 14	1-695-809-11	CONNECTOR, PC BOARD (PLUG) 4P	
* 15	A-4360-266-A	TUNER BOARD, COMPLETE (AEP, UK)	
* 15	A-4360-270-A	TUNER BOARD, COMPLETE (IT)	
* 15	A-4360-274-A	TUNER BOARD, COMPLETE (G)	
* 15	A-4360-278-A	TUNER BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	

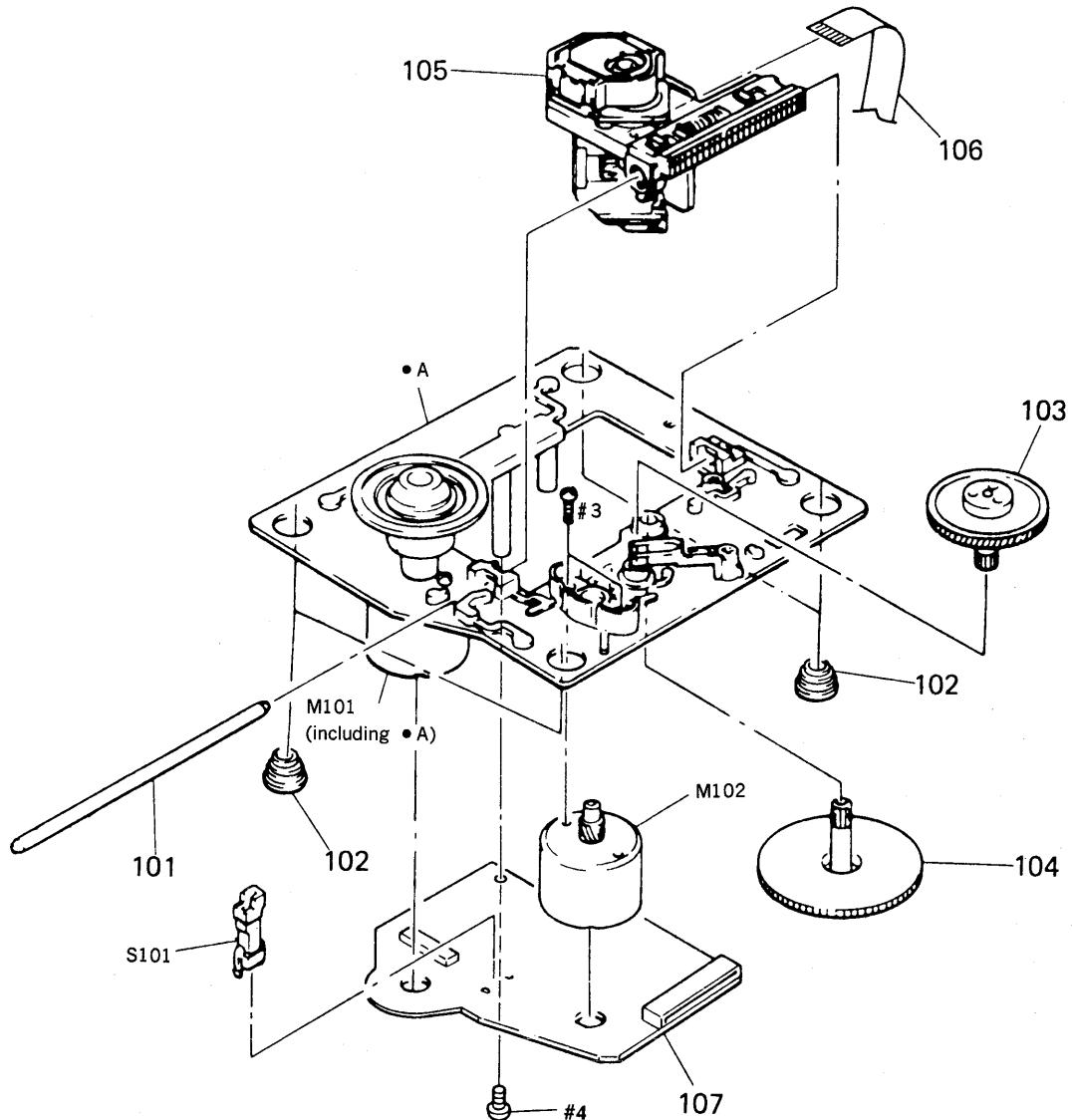
Ref. No.	Part No.	Description	Remark
* 16	A-4303-343-A	TCB011 BOARD, COMPLETE (AEP, UK)	
* 16	A-4303-344-A	TCB011 BOARD, COMPLETE (G, IT)	
* 16	A-4303-345-A	TCB011 BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	
* 17	4-954-186-01	COVER (T)	
* 18	4-954-196-11	PANEL (HCD), BACK (AEP, UK)	
* 18	4-954-196-21	PANEL (HCD), BACK (EXCEPT AEP, UK, G, IT)	
* 18	4-954-196-31	PANEL (HCD), BACK (G)	
* 18	4-954-196-41	PANEL (HCD), BACK (IT)	
* 19	A-4360-265-A	CD BOARD, COMPLETE (AEP, UK)	
* 19	A-4360-269-A	CD BOARD, COMPLETE (IT)	
* 19	A-4360-273-A	CD BOARD, COMPLETE (G)	
* 19	A-4360-277-A	CD BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	
* 20	4-924-098-11	HOLDER, PC BOARD	
* 21	3-669-610-00	SPACER	
22	1-696-750-11	WIRE (FLAT TYPE) (9 CORE)	
* 23	1-647-880-11	POWER BOARD (AEP, UK, G, IT)	
* 23	1-647-884-11	POWER BOARD (EXCEPT AEP, UK, G, IT)	
24	4-860-518-00	CUSHION	
25	4-930-336-21	FOOT (FELT)	
* 26	3-561-427-21	CUSHION	
* 27	4-941-548-01	LABEL, CLASS 1	
AT801	1-423-378-11	TRANSFORMER, POWER	

**5-2. CD MECHANISM SECTION
(CDM13B-5BD3)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-944-012-01	TABLE, DISC		61	4-929-727-01	CAM (A)	
52	A-4604-752-A	HOLDER (MG) ASSY		62	4-929-729-01	CAM (B)	
53	4-929-764-01	SHAFT (TABLE GUIDE)		63	3-659-338-00	SPRING, COMPRESSION	
54	4-944-006-01	BEARING		64	4-927-654-01	WASHER (LIMITER)	
55	X-4941-462-1	CHASSIS (MD) ASSY		* 65	4-917-583-21	BRACKET, YOKE	
56	4-927-649-01	BELT		66	4-917-541-01	SPRING (B)	
57	4-929-724-01	PULLEY (B)		67	4-929-747-01	HOLDER (BU)	
58	X-4929-703-1	ARM ASSY, SWING		68	4-933-134-01	SCREW (+PTPWH M2.6X6)	
59	4-927-620-01	GEAR (P)		* 69	1-634-461-11	LOADING BOARD	
60	4-927-628-01	GEAR (C)		M291	A-4608-362-A	MOTOR (L) ASSY	

**5-3. OPTICAL PICK-UP BLOCK
(BU-5BD3)**



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	---

Ref. No.	Part No.	Description	Remark
101	4-917-565-01	SHAFT, SLED	
102	4-933-126-01	INSULATOR (A)	
103	4-917-567-01	GEAR (M)	
104	4-917-564-01	GEAR (P), FLATNESS	
Δ 105	8-848-144-11	DEVICE, OPTICAL KSS-240A	

Ref. No.	Part No.	Description	Remark
106	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
* 107	A-4617-371-A	BD BOARD, COMPLETE	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF	

SECTION 6

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 and -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 .. : μ PA ..
uPB .. : μ PB .. : μ PC .. : μ PD .. : μ PD ..
- CAPACITORS
uF: μ F When indicating parts by reference number, please include the board.
- COILS
uH: μ H

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

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- G : German
IT : Italian

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4617-371-A	BD BOARD, COMPLETE	*****	IC102	8-759-822-36	IC LA6532M	
< CAPACITOR >							
C101	1-163-038-00	CERAMIC CHIP	0.1uF	J101	1-216-295-00	METAL CHIP	0 5% 1/10W
C102	1-163-989-11	CERAMIC CHIP	0.033uF	J102	1-216-295-00	METAL CHIP	0 5% 1/10W
C103	1-126-163-11	ELECT	4.7uF			< TRANSISTOR >	
C104	1-163-038-00	CERAMIC CHIP	0.1uF	R101	1-216-097-00	METAL CHIP	100K 5% 1/10W
C105	1-126-154-11	ELECT	47uF	J103	1-216-095-00	METAL CHIP	82K 5% 1/10W
			20% 6.3V	R104	1-216-091-00	METAL CHIP	56K 5% 1/10W
C106	1-126-154-11	ELECT	47uF	J105	1-216-099-00	METAL CHIP	120K 5% 1/10W
C107	1-126-154-11	ELECT	47uF	R106	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
C108	1-163-038-00	CERAMIC CHIP	0.1uF	R107	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
C109	1-163-038-00	CERAMIC CHIP	0.1uF	R108	1-216-114-00	METAL GLAZE	510K 5% 1/10W
C110	1-163-989-11	CERAMIC CHIP	0.033uF	R109	1-216-105-00	METAL CHIP	220K 5% 1/10W
C111	1-131-367-00	TANTALUM	22uF	R110	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
C112	1-164-232-11	CERAMIC CHIP	0.01uF	R111	1-216-049-00	METAL CHIP	1K 5% 1/10W
C113	1-164-232-11	CERAMIC CHIP	0.01uF	R112	1-216-083-00	METAL CHIP	27K 5% 1/10W
C114	1-164-161-11	CERAMIC CHIP	0.0022uF	R113	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
C115	1-164-161-11	CERAMIC CHIP	0.0022uF	R114	1-216-105-00	METAL CHIP	220K 5% 1/10W
C116	1-163-038-00	CERAMIC CHIP	0.1uF	R115	1-216-073-00	METAL CHIP	10K 5% 1/10W
C117	1-163-038-00	CERAMIC CHIP	0.1uF	R116	1-216-049-00	METAL CHIP	1K 5% 1/10W
C118	1-163-038-00	CERAMIC CHIP	0.1uF	R117	1-216-083-00	METAL CHIP	27K 5% 1/10W
C119	1-164-161-11	CERAMIC CHIP	0.0022uF	R118	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
C120	1-163-989-11	CERAMIC CHIP	0.033uF	R119	1-216-105-00	METAL CHIP	220K 5% 1/10W
C151	1-163-019-00	CERAMIC CHIP	0.0068uF	R120	1-216-049-00	METAL CHIP	1K 5% 1/10W
C152	1-163-038-00	CERAMIC CHIP	0.1uF	R121	1-216-073-00	METAL CHIP	27K 5% 1/10W
C153	1-163-006-11	CERAMIC CHIP	560PF	R122	1-216-083-00	METAL CHIP	8.2K 5% 1/10W
C154	1-164-161-11	CERAMIC CHIP	0.0022uF	R123	1-216-071-00	METAL CHIP	220K 5% 1/10W
C155	1-163-023-00	CERAMIC CHIP	0.015uF	R124	1-216-105-00	METAL CHIP	1K 5% 1/10W
C171	1-163-038-00	CERAMIC CHIP	0.1uF	R125	1-216-073-00	METAL CHIP	27K 5% 1/10W
C172	1-163-038-00	CERAMIC CHIP	0.1uF	R126	1-216-083-00	METAL CHIP	8.2K 5% 1/10W
C173	1-163-038-00	CERAMIC CHIP	0.1uF	R127	1-216-071-00	METAL CHIP	220K 5% 1/10W
C174	1-163-038-00	CERAMIC CHIP	0.1uF	R128	1-216-105-00	METAL CHIP	1K 5% 1/10W
< CONNECTOR >							
CN101	1-568-796-11	SOCKET, CONNECTOR 22P		R129	1-216-049-00	METAL CHIP	33K 5% 1/10W
CN102	1-568-795-11	SOCKET, CONNECTOR 12P		R130	1-216-083-00	METAL CHIP	33K 5% 1/10W
< IC >							
IC101	8-752-058-77	IC CXA1372AQ		R131	1-216-093-00	METAL CHIP	68K 5% 1/10W
				R132	1-216-081-00	METAL CHIP	22K 5% 1/10W
				R133	1-216-079-00	METAL CHIP	18K 5% 1/10W
				R134	1-216-079-00	METAL CHIP	18K 5% 1/10W
				R135	1-216-079-00	METAL CHIP	1K 5% 1/10W
				R136	1-216-049-00	METAL CHIP	27K 5% 1/10W
				R137	1-216-001-00	METAL CHIP	8.2K 5% 1/10W
				R138	1-216-001-00	METAL CHIP	220K 5% 1/10W
				R139	1-216-001-00	METAL CHIP	1K 5% 1/10W
				R140	1-216-001-00	METAL CHIP	27K 5% 1/10W
				R141	1-216-001-00	METAL CHIP	8.2K 5% 1/10W
				R142	1-216-001-00	METAL CHIP	220K 5% 1/10W
				R143	1-216-001-00	METAL CHIP	1K 5% 1/10W
				R144	1-216-001-00	METAL CHIP	27K 5% 1/10W

BD

CD

Ref. No.	Part No.	Description	Remark
< VARIABLE RESISTOR >			
RV101	1-238-600-11	RES, ADJ, CARBON 10K	
RV101	1-241-630-11	RES, ADJ, CARBON 10K	
RV102	1-238-600-11	RES, ADJ, CARBON 10K	
RV102	1-241-630-11	RES, ADJ, CARBON 10K	
< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	

*	A-4360-265-A	CD BOARD, COMPLETE (AEP, UK)	
*	A-4360-269-A	CD BOARD, COMPLETE (IT)	
*	A-4360-273-A	CD BOARD, COMPLETE (G)	
*	A-4360-277-A	CD BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	

*	4-880-403-21	HEAT SINK	
*	4-904-446-01	PLATE, GROUND	
	7-685-871-01	SCREW +BVTT 3X6 (S)	
< CAPACITOR >			
C201	1-124-915-11	ELECT	10uF 20% 63V
C202	1-163-141-00	CERAMIC CHIP	0.001uF 5% 50V
C203	1-124-564-11	ELECT	4700uF 20% 25V
C204	1-126-947-11	ELECT	47uF 20% 35V
C206	1-164-346-11	CERAMIC CHIP	1uF 16V
C207	1-164-695-11	CERAMIC CHIP	0.0022uF 5% 50V
C208	1-126-925-11	ELECT	470uF 20% 10V
C209	1-126-925-11	ELECT	470uF 20% 10V
C210	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C211	1-126-933-11	ELECT	100uF 20% 16V
C212	1-126-933-11	ELECT	100uF 20% 16V
C213	1-164-005-11	CERAMIC CHIP	0.47uF 25V
C214	1-164-005-11	CERAMIC CHIP	0.47uF 25V
C215	1-164-005-11	CERAMIC CHIP	0.47uF 25V
C216	1-124-584-00	ELECT	100uF 20% 10V
C217	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C218	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C219	1-124-584-00	ELECT	100uF 20% 10V
C220	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C221	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C222	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C223	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C224	1-164-005-11	CERAMIC CHIP	0.47uF 25V
C225	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C226	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C227	1-163-145-00	CERAMIC CHIP	0.0015uF 5% 50V
C228	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C229	1-126-923-11	ELECT	220uF 20% 10V
C230	1-164-005-11	CERAMIC CHIP	0.47uF 25V

Ref. No.	Part No.	Description	Remark
C231	1-164-005-11	CERAMIC CHIP	0.47uF 25V
C232	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C233	1-164-695-11	CERAMIC CHIP	0.0022uF 5% 50V
C234	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C235	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C236	1-163-102-00	CERAMIC CHIP	24PF 5% 50V
C237	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C238	1-126-923-11	ELECT	220uF 20% 10V
C239	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C240	1-163-099-00	CERAMIC CHIP	18PF 5% 50V
C241	1-163-099-00	CERAMIC CHIP	18PF 5% 50V
C242	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C244	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C245	1-163-115-00	CERAMIC CHIP	82PF 5% 50V
C246	1-126-923-11	ELECT	220uF 20% 10V
C247	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C248	1-163-115-00	CERAMIC CHIP	82PF 5% 50V
C249	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C251	1-163-109-00	CERAMIC CHIP	47PF 5% 50V
C252	1-163-109-00	CERAMIC CHIP	47PF 5% 50V
C253	1-163-017-00	CERAMIC CHIP	0.0047uF 5% 50V
C254	1-163-143-00	CERAMIC CHIP	0.0012uF 5% 50V
C255	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C256	1-164-505-11	CERAMIC CHIP	2.2uF 16V
C257	1-163-139-00	CERAMIC CHIP	820PF 5% 50V
C258	1-163-109-00	CERAMIC CHIP	47PF 5% 50V
C259	1-163-109-00	CERAMIC CHIP	47PF 5% 50V
C260	1-163-017-00	CERAMIC CHIP	0.0047uF 5% 50V
C261	1-163-143-00	CERAMIC CHIP	0.0012uF 5% 50V
C262	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C263	1-164-505-11	CERAMIC CHIP	2.2uF 16V
C264	1-163-139-00	CERAMIC CHIP	820PF 5% 50V
C265	1-124-925-11	ELECT	2.2uF 20% 100V
C266	1-124-925-11	ELECT	2.2uF 20% 100V
C267	1-124-925-11	ELECT	2.2uF 20% 100V
C268	1-124-925-11	ELECT	2.2uF 20% 100V
C269	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C270	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C272	1-126-933-11	ELECT	100uF 20% 16V
C273	1-164-346-11	CERAMIC CHIP	1uF 16V
C274	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
< CONNECTOR >			
* CN201	1-569-624-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL)	
* CN202	1-568-834-11	SOCKET, CONNECTOR 15P	
CN203	1-695-830-11	HOUSING, CONNECTOR 5P	
* CN204	1-568-822-11	SOCKET, CONNECTOR 22P	
* CN205	1-564-339-51	PIN, CONNECTOR 5P	

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
< DIODE >						< RESISTOR >					
CN206	1-695-693-11	CONNECTOR, FFC/FPC	9P			R201	1-216-097-00	METAL CHIP	100K	5%	1/10W
D201	8-719-210-39	DIODE	EC10QS-04			R202	1-216-097-00	METAL CHIP	100K	5%	1/10W
D202	8-719-210-39	DIODE	EC10QS-04			R203	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
D203	8-719-210-39	DIODE	EC10QS-04			R204	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
D204	8-719-210-39	DIODE	EC10QS-04			R205	1-216-073-00	METAL CHIP	10K	5%	1/10W
D205	8-719-021-09	DIODE	UZM3.9B			R206	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
D206	8-719-800-76	DIODE	ISS226			R207	1-216-073-00	METAL CHIP	10K	5%	1/10W
D207	8-719-800-76	DIODE	ISS226			R208	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
D208	8-719-021-89	DIODE	UZM10X			R209	1-216-001-00	METAL CHIP	10	5%	1/10W
D209	8-719-800-76	DIODE	ISS226			R210	1-216-073-00	METAL CHIP	10K	5%	1/10W
< IC >						R211	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
IC201	8-759-636-24	IC	M5290FP			R212	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
IC202	8-759-148-80	IC	uPC2407HF			R213	1-216-073-00	METAL CHIP	10K	5%	1/10W
IC203	8-759-820-84	IC	L78MR05			R214	1-216-073-00	METAL CHIP	10K	5%	1/10W
IC204	8-759-636-20	IC	M54641FP			R215	1-216-073-00	METAL CHIP	10K	5%	1/10W
IC205	8-759-163-41	IC	uPD75116GF-G38-3BE			R216	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
IC206	8-752-352-93	IC	CXD2500BQ			R217	1-216-073-00	METAL CHIP	10K	5%	1/10W
IC207	8-752-342-65	IC	CXD2560M			R218	1-216-073-00	METAL CHIP	10K	5%	1/10W
IC208	8-752-351-19	IC	CXD2561BM			R219	1-216-073-00	METAL CHIP	10K	5%	1/10W
IC209	8-759-636-55	IC	M5218AFP			R220	1-216-037-00	METAL CHIP	330	5%	1/10W
IC210	8-759-636-55	IC	M5218AFP			R221	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
IC211	8-759-051-64	IC	TC9215F-TP1			R222	1-216-073-00	METAL CHIP	10K	5%	1/10W
IC212	8-749-923-04	IC	TOTX178			R223	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
< JUMPER RESISTOR >						R224	1-216-073-00	METAL CHIP	10K	5%	1/10W
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W	R225	1-216-097-00	METAL CHIP	100K	5%	1/10W
JW2	1-216-295-00	METAL CHIP	0	5%	1/10W	R226	1-216-049-00	METAL CHIP	1K	5%	1/10W
< COIL >						R227	1-216-049-00	METAL CHIP	1K	5%	1/10W
L201	1-410-397-21	FERRITE BEAD	INDUCTOR			R228	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
L202	1-410-464-11	INDUCTOR	3.3uH			R229	1-216-025-00	METAL CHIP	100	5%	1/10W
L203	1-410-397-21	FERRITE BEAD	INDUCTOR			R230	1-216-025-00	METAL CHIP	100	5%	1/10W
L204	1-410-397-21	FERRITE BEAD	INDUCTOR			R231	1-216-025-00	METAL CHIP	100	5%	1/10W
< TRANSISTOR >						R232	1-216-049-00	METAL CHIP	1K	5%	1/10W
Q201	8-729-141-83	TRANSISTOR	2SB1094-LK			R233	1-216-049-00	METAL CHIP	1K	5%	1/10W
Q202	8-729-140-75	TRANSISTOR	2SD999-CLK			R234	1-216-049-00	METAL CHIP	1K	5%	1/10W
Q203	8-729-101-07	TRANSISTOR	2SB798-DL			R235	1-216-049-00	METAL CHIP	1K	5%	1/10W
Q204	8-729-805-41	TRANSISTOR	2SC3398			R236	1-216-049-00	METAL CHIP	1K	5%	1/10W
Q205	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R237	1-216-049-00	METAL CHIP	1K	5%	1/10W
Q206	8-729-805-41	TRANSISTOR	2SC3398			R238	1-216-049-00	METAL CHIP	1K	5%	1/10W
Q207	8-729-805-65	TRANSISTOR	2SA1344			R239	1-216-097-00	METAL CHIP	100K	5%	1/10W
Q208	8-729-805-40	TRANSISTOR	2SC3900			R240	1-216-121-00	METAL CHIP	1M	5%	1/10W
Q209	8-729-805-40	TRANSISTOR	2SC3900			R241	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
						R242	1-216-082-00	METAL GLAZE	24K	5%	1/10W
						R243	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
						R244	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
						R245	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
						R246	1-216-082-00	METAL GLAZE	24K	5%	1/10W
						R247	1-216-689-11	METAL CHIP	39K	0.5%	1/10W

CD **LOADING** **PANEL**

Ref. No.	Part No.	Description	Remark
R248	1-216-689-11	METAL CHIP	39K 0.5% 1/10W
R249	1-216-689-11	METAL CHIP	39K 0.5% 1/10W
R250	1-216-082-00	METAL GLAZE	24K 5% 1/10W
R251	1-216-082-00	METAL GLAZE	24K 5% 1/10W
R252	1-216-689-11	METAL CHIP	39K 0.5% 1/10W
R253	1-216-079-00	METAL CHIP	18K 5% 1/10W
R254	1-216-079-00	METAL CHIP	18K 5% 1/10W
R255	1-216-088-00	METAL CHIP	43K 5% 1/10W
R256	1-216-088-00	METAL CHIP	43K 5% 1/10W
R257	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R258	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R259	1-216-041-00	METAL CHIP	470 5% 1/10W
R260	1-216-097-00	METAL CHIP	100K 5% 1/10W
R261	1-216-079-00	METAL CHIP	18K 5% 1/10W
R262	1-216-079-00	METAL CHIP	18K 5% 1/10W
R263	1-216-088-00	METAL CHIP	43K 5% 1/10W
R264	1-216-088-00	METAL CHIP	43K 5% 1/10W
R265	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R266	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R267	1-216-041-00	METAL CHIP	470 5% 1/10W
R268	1-216-097-00	METAL CHIP	100K 5% 1/10W
R269	1-216-097-00	METAL CHIP	100K 5% 1/10W
R270	1-216-097-00	METAL CHIP	100K 5% 1/10W
R271	1-216-097-00	METAL CHIP	100K 5% 1/10W
R272	1-216-097-00	METAL CHIP	100K 5% 1/10W
R273	1-216-049-00	METAL CHIP	1K 5% 1/10W
R274	1-216-049-00	METAL CHIP	1K 5% 1/10W
R275	1-216-049-00	METAL CHIP	1K 5% 1/10W
R276	1-216-049-00	METAL CHIP	1K 5% 1/10W
R277	1-216-049-00	METAL CHIP	1K 5% 1/10W
R278	1-216-049-00	METAL CHIP	1K 5% 1/10W
R279	1-216-049-00	METAL CHIP	1K 5% 1/10W
R280	1-216-049-00	METAL CHIP	1K 5% 1/10W
R281	1-216-049-00	METAL CHIP	1K 5% 1/10W
R282	1-216-049-00	METAL CHIP	1K 5% 1/10W
< VIBRATOR >			
X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
X202	1-567-965-11	VIBRATOR, CRYSTAL (22.6MHz)	

Ref. No.	Part No.	Description	Remark
*	1-634-461-11	LOADING BOARD	*****
			< CONNECTOR >
	CN291	1-564-498-11 PIN, CONNECTOR 5P	
			< SWITCH >
	S291	1-571-924-11 SWITCH, LEAF (LOAD OUT)	
	S292	1-571-924-11 SWITCH, LEAF (LOAD IN)	

*	A-4360-267-A	PANEL BOARD, COMPLETE (AEP, UK)	
*	A-4360-271-A	PANEL BOARD, COMPLETE (IT)	
*	A-4360-275-A	PANEL BOARD, COMPLETE (G)	
*	A-4360-279-A	PANEL BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	
*	4-954-187-01	HOLDER (FL)	*****
			< CAPACITOR >
C601	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C602	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C603	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C604	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C605	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C606	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C607	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C608	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C609	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C610	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C611	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C612	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C613	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C614	1-124-584-00	ELECT	100uF 20% 10V
C615	1-164-346-11	CERAMIC CHIP	1uF 16V
C616	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C617	1-124-248-00	ELECT	22uF 20% 35V
C618	1-136-173-00	FILM	0.47uF 5% 50V
C619	1-136-173-00	FILM	0.47uF 5% 50V
C620	1-136-173-00	FILM	0.47uF 5% 50V
C621	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C622	1-164-232-11	CERAMIC CHIP	0.01uF 50V
			< CONNECTOR >
CN601	1-695-829-11	HOUSING, CONNECTOR 11P	
CN602	1-580-918-11	HOUSING, CONNECTOR 5P	

PANEL

POWER

Ref. No.	Part No.	Description	Remark		
< DIODE >					
D601	8-719-026-64	DIODE SML1260S (PRESET)			
D602	8-719-026-64	DIODE SML1260S (TUNING)			
< FLUORESCENT INDICATOR >					
FL601	1-517-115-11	INDICATOR TUBE, FLUORESCENT			
< IC >					
IC601	8-759-077-16	IC M66004M4FP			
< COIL >					
L601	1-408-793-21	INDUCTOR CHIP 220uH			
< TRANSISTOR >					
Q603	8-729-805-41	TRANSISTOR 2SC3398			
< RESISTOR >					
R601	1-216-041-00	METAL CHIP 470 5% 1/10W			
R602	1-216-045-00	METAL CHIP 680 5% 1/10W			
R603	1-216-049-00	METAL CHIP 1K 5% 1/10W			
R604	1-216-053-00	METAL CHIP 1.5K 5% 1/10W			
R605	1-216-057-00	METAL CHIP 2.2K 5% 1/10W			
R606	1-216-065-00	METAL CHIP 4.7K 5% 1/10W			
R607	1-216-075-00	METAL CHIP 12K 5% 1/10W			
R608	1-216-041-00	METAL CHIP 470 5% 1/10W			
R609	1-216-045-00	METAL CHIP 680 5% 1/10W			
R610	1-216-049-00	METAL CHIP 1K 5% 1/10W			
R611	1-216-053-00	METAL CHIP 1.5K 5% 1/10W			
R612	1-216-057-00	METAL CHIP 2.2K 5% 1/10W			
R613	1-216-065-00	METAL CHIP 4.7K 5% 1/10W			
R615	1-216-043-00	METAL CHIP 560 5% 1/10W			
R616	1-216-083-00	METAL CHIP 27K 5% 1/10W			
R617	1-216-097-00	METAL CHIP 100K 5% 1/10W			
< SWITCH >					
S601	1-554-303-21	SWITCH, TACTILE (△)			
S602	1-554-303-21	SWITCH, TACTILE (►►)			
S603	1-554-303-21	SWITCH, TACTILE (◀◀)			
S604	1-554-303-21	SWITCH, TACTILE (EDIT)			
S605	1-554-303-21	SWITCH, TACTILE (CONTINUE)			
S606	1-554-303-21	SWITCH, TACTILE (▷ II)			
S607	1-554-303-21	SWITCH, TACTILE (□)			
S608	1-554-303-21	SWITCH, TACTILE (SHUFFLE)			
S609	1-554-303-21	SWITCH, TACTILE (BAND)			
S610	1-554-303-21	SWITCH, TACTILE (+)			
S611	1-554-303-21	SWITCH, TACTILE (-)			

Ref. No.	Part No.	Description	Remark		
S612	1-554-303-21	SWITCH, TACTILE (MEMORY)			
S613	1-554-303-21	SWITCH, TACTILE (MODE)			
S614	1-554-303-21	SWITCH, TACTILE (STEREO/MONO)			
S615	1-554-303-21	SWITCH, TACTILE (PROGRAM)			

*	1-647-880-11	POWER BOARD (AEP, UK, G, IT)			
*	1-647-884-11	POWER BOARD (EXCEPT AEP, UK, G, IT)			

Ref. No.	Part No.	Description	Value	Tolerance	Unit
C801	1-126-949-11	ELECT	220uF	20%	35V
C802	1-124-122-11	ELECT	100uF	20%	50V
C803	1-126-948-11	ELECT	100uF	20%	35V
C805	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C806	1-126-157-11	ELECT	10uF	20%	16V
< CONNECTOR >					
CN801	1-695-729-11	CONNECTOR, FFC/FPC 9P			
< DIODE >					
D801	8-719-200-02	DIODE 10E2			
D802	8-719-200-02	DIODE 10E2			
D803	8-719-021-23	DIODE UZM4.7B			
D804	8-719-021-23	DIODE UZM4.7B			
< IC >					
IC801	8-759-700-72	IC NJM79L24A			
< IC LINK >					
▲ICP801	1-532-838-11	LI NK, IC			
▲ICP802	1-532-838-11	LI NK, IC			
< RESISTOR >					
R802	1-216-097-00	METAL CHIP 100K 5% 1/10W			
R803	1-216-041-00	METAL CHIP 470 5% 1/10W			
R804	1-216-041-00	METAL CHIP 470 5% 1/10W			
< TRANSFORMER >					
▲T801	1-423-378-11	TRANSFORMER, POWER			

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	--

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark		
*	A-4303-343-A	TCB011 BOARD, COMPLETE	(AEP, UK)		C53	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
*	A-4303-344-A	TCB011 BOARD, COMPLETE	(G, IT)		C54	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
*	A-4303-345-A	TCB011 BOARD, COMPLETE	(EXCEPT AEP, UK, G, IT)		C55	1-163-105-00	CERAMIC CHIP	33PF	5% 50V (EXCEPT G, IT)	

< CAPACITOR >										
C1	1-124-120-11	ELECT	220uF	20%	25V	C57	1-164-346-11	CERAMIC CHIP	1.0uF	16V
C2	1-164-232-11	CERAMIC CHIP	0.01uF			C58	1-164-346-11	CERAMIC CHIP	1.0uF	16V
C3	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C59	1-164-346-11	CERAMIC CHIP	1.0uF	16V
C4	1-163-038-00	CERAMIC CHIP	0.1uF			C60	1-163-038-00	CERAMIC CHIP	0.1uF	25V
						C61	1-163-022-00	CERAMIC CHIP	0.012uF	10% 50V (G, IT)
C5	1-164-232-11	CERAMIC CHIP	0.01uF			C62	1-163-022-00	CERAMIC CHIP	0.012uF	10% 50V
C6	1-163-038-00	CERAMIC CHIP	0.1uF			C63	1-164-346-11	CERAMIC CHIP	1.0uF	16V
						C64	1-164-346-11	CERAMIC CHIP	1.0uF	16V
C7	1-163-038-00	CERAMIC CHIP	0.1uF			C65	1-164-346-11	CERAMIC CHIP	1.0uF	16V
						C66	1-164-346-11	CERAMIC CHIP	1.0uF	16V
C8	1-164-232-11	CERAMIC CHIP	0.01uF			C69	1-164-232-11	CERAMIC CHIP	0.01uF	50V
						C70	1-164-232-11	CERAMIC CHIP	0.01uF	50V
C9	1-163-012-00	CERAMIC CHIP	0.0018uF			C71	1-164-232-11	CERAMIC CHIP	0.01uF	50V
						C72	1-124-120-11	ELECT	220uF	20% 25V
C10	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	C73	1-164-505-11	CERAMIC CHIP	2.2uF	16V
						C74	1-164-232-11	CERAMIC CHIP	0.01uF	50V
C12	1-164-343-91	CERAMIC CHIP	0.056uF	10%	50V	C75	1-126-157-11	ELECT	10uF	20% 16V
						C76	1-126-101-11	ELECT	100uF	20% 16V
C13	1-164-232-11	CERAMIC CHIP	0.01uF			C79	1-126-157-11	ELECT	10uF	20% 16V
						C80	1-124-472-11	ELECT	470uF	20% 10V
C14	1-163-577-91	CERAMIC CHIP	5PF	0.25PF	50V					
						C81	1-164-232-11	CERAMIC CHIP	0.01uF	50V
C21	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	C82	1-164-232-11	CERAMIC CHIP	0.01uF	50V
C22	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	C83	1-164-232-11	CERAMIC CHIP	0.01uF	50V (G, IT)
C23	1-164-232-11	CERAMIC CHIP	0.01uF			< FILTER >				
C24	1-164-232-11	CERAMIC CHIP	0.01uF			CF1	1-567-389-11	FILTER, CERAMIC	(AEP, UK, G, IT)	
C25	1-164-232-11	CERAMIC CHIP	0.01uF			CF1	1-527-968-11	FILTER, CERAMIC	(EXCEPT AEP, UK, G, IT)	
C26	1-164-346-11	CERAMIC CHIP	1.0uF			CF2	1-567-389-11	FILTER, CERAMIC	(G, IT)	
C27	1-164-505-11	CERAMIC CHIP	2.2uF			CF51	1-567-389-11	FILTER, CERAMIC		
						< CONNECTOR >				
C29	1-164-232-11	CERAMIC CHIP	0.01uF			CN1	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)		
C31	1-164-505-11	CERAMIC CHIP	2.2uF			CN2	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)		
C32	1-164-232-11	CERAMIC CHIP	0.01uF			* CN3	1-659-808-11	CONNECTOR, PC BOARD (RECEPTACLE)		
C33	1-163-038-00	CERAMIC CHIP	0.1uF			CN5	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)		
C34	1-164-005-11	CERAMIC CHIP	0.47uF			< TRIMER >				
						CV1	1-141-265-31	TRIMER CAPACITOR	(EXCEPT AEP, UK, G, IT)	
C35	1-163-033-00	CERAMIC CHIP	0.022uF			CV2	1-141-265-31	TRIMER CAPACITOR	(EXCEPT AEP, UK, G, IT)	
C36	1-163-033-00	CERAMIC CHIP	0.022uF							
C51	1-164-232-11	CERAMIC CHIP	0.01uF							
C52	1-123-613-91	ELECT	3.3uF							
C52	1-164-505-11	CERAMIC CHIP	2.2uF							

TCB011

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< DIODE >							
D1	8-719-975-10	KV1560NT (EXCEPT AEP, UK, G, IT)		Q1	8-729-804-72	TRANSISTOR	2SC2814-F4
D21	8-719-977-03	DIODE DTZ5.6B (AEP, UK, G, IT)		Q2	8-729-804-72	TRANSISTOR	2SC2814-F4 (G, IT)
D21	8-719-422-46	DIODE MA8056 (EXCEPT AEP, UK, G, IT)		Q3	8-729-810-16	TRANSISTOR	2SA1678
D51	8-719-988-62	DIODE ISS355		Q4	8-729-602-36	TRANSISTOR	2SA1602
< FRONT END >							
FE1	1-463-957-11	FRONT END (FM 4 GANG) (G, IT)		Q5	8-729-602-36	TRANSISTOR	2SA1602 (EXCEPT AEP, UK, G, IT)
FE1	1-465-673-11	FRONT END (2 BAND) (EXCEPT G, IT)		Q6	8-729-602-36	TRANSISTOR	2SA1602 (AEP, UK, G, IT)
FE2	1-239-030-11	ENCAPSULATED COMPONENT (MW) (AEP, UK, G, IT)		Q6	8-729-810-28	TRANSISTOR	2SC4398 (EXCEPT AEP, UK, G, IT)
FE2	1-239-032-11	ENCAPSULATED COMPONENT (MW) (EXCEPT AEP, UK, G, IT)		Q7	8-729-810-28	TRANSISTOR	2SC4398 (AEP, UK, G, IT)
FE3	1-239-049-11	ENCAPSULATED COMPONENT (LW) (AEP, UK, G, IT)		Q21	8-729-602-21	TRANSISTOR	2SC4154-F
< FILTER >							
FL51	1-239-029-11	ENCAPSULATED COMPONENT (G, IT)		Q22	8-729-232-71	TRANSISTOR	2SK208-GR3
< IC >							
IC21	8-759-821-43	IC LC7218M		Q23	8-729-232-59	TRANSISTOR	2SC4666B
IC51	8-759-823-68	IC LA1851NM		Q24	8-729-232-71	TRANSISTOR	2SK208-GR3 (AEP, UK, G, IT)
< TRANSFORMER >							
IFT51	1-404-954-11	TRANSFORMER, DISCRIMINATOR		Q25	8-729-232-59	TRANSISTOR	2SC4666B (AEP, UK, G, IT)
IFT52	1-404-713-11	TRANSFORMER, IF		Q51	8-729-602-21	TRANSISTOR	2SC4154-F
< CHIP JUMPER >							
JW1	1-216-295-00	METAL CHIP 0 5% 1/10W		R1	1-216-037-00	METAL CHIP	330 5% 1/10W
JW2	1-216-295-00	METAL CHIP 0 5% 1/10W (EXCEPT G, IT)		R2	1-216-037-00	METAL CHIP	330 5% 1/10W
JW3	1-216-295-00	METAL CHIP 0 5% 1/10W (EXCEPT AEP, UK, G, IT)		R3	1-216-109-00	METAL CHIP	330K 5% 1/10W
JW4	1-216-295-00	METAL CHIP 0 5% 1/10W (AEP, UK, G, IT)		R4	1-216-037-00	METAL CHIP	330 5% 1/10W
JW5	1-216-295-00	METAL CHIP 0 5% 1/10W (AEP, UK, G, IT)		R5	1-216-109-00	METAL CHIP	330K 5% 1/10W (G, IT)
JW7	1-216-295-00	METAL CHIP 0 5% 1/10W (AEP, UK, G, IT)		R6	1-216-037-00	METAL CHIP	330 5% 1/10W (G, IT)
< COIL >							
L1	1-408-793-21	INDUCTOR, CHIP 220uH (AEP, UK, G, IT)		R7	1-216-025-00	METAL CHIP	100 5% 1/10W
L51	1-408-798-00	CHIP INDUCTOR 1mH		R8	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT AEP, UK, G, IT)
< LPF >							
LPF51	1-235-221-00	FILTER, LOW PASS		R8	1-216-057-00	METAL CHIP	2. 2K 5% 1/10W (AEP, UK, G, IT)
< RESISTOR >							
R1							
R1	1-216-037-00	METAL CHIP	330 5% 1/10W	R9	1-216-089-00	METAL CHIP	47K 5% 1/10W
R2	1-216-037-00	METAL CHIP	330 5% 1/10W	R10	1-216-097-00	METAL CHIP	100K 5% 1/10W
R3	1-216-109-00	METAL CHIP	330K 5% 1/10W	R11	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W (AEP, UK, G, IT)
R4	1-216-037-00	METAL CHIP	330 5% 1/10W	R12	1-216-057-00	METAL CHIP	2. 2K 5% 1/10W (AEP, UK, G, IT)
R5	1-216-109-00	METAL CHIP	330K 5% 1/10W (G, IT)	R13	1-216-089-00	METAL CHIP	47K 5% 1/10W (AEP, UK, G, IT)
R6	1-216-037-00	METAL CHIP	330 5% 1/10W (G, IT)	R14	1-216-081-00	METAL CHIP	22K 5% 1/10W (AEP, UK, G, IT)
R7	1-216-025-00	METAL CHIP	100 5% 1/10W	R15	1-216-121-00	METAL CHIP	1M 5% 1/10W (AEP, UK, G, IT)
R8	1-216-037-00	METAL CHIP	330 5% 1/10W	R16	1-216-073-00	METAL CHIP	10K 5% 1/10W (EXCEPT AEP, UK, G, IT)
R8	1-216-057-00	METAL CHIP	2. 2K 5% 1/10W (AEP, UK, G, IT)	R16	1-216-089-00	METAL CHIP	47K 5% 1/10W (AEP, UK)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R17	1-216-121-00	METAL CHIP	1M 5% 1/10W (EXCEPT AEP, UK, G, IT)	R61	1-216-115-00	METAL CHIP	560K 5% 1/10W
R18	1-216-073-00	METAL CHIP	10K 5% 1/10W (EXCEPT AEP, UK, G, IT)	R62	1-216-115-00	METAL CHIP	560K 5% 1/10W
R21	1-216-049-00	METAL CHIP	1K 5% 1/10W	R63	1-216-049-00	METAL CHIP	1K 5% 1/10W
R22	1-216-049-00	METAL CHIP	1K 5% 1/10W	R64	1-216-049-00	METAL CHIP	1K 5% 1/10W
R23	1-216-049-00	METAL CHIP	1K 5% 1/10W	R65	1-216-073-00	METAL CHIP	10K 5% 1/10W
R24	1-216-025-00	METAL CHIP	100 5% 1/10W	R66	1-216-073-00	METAL CHIP	10K 5% 1/10W
R25	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R67	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R26	1-216-049-00	METAL CHIP	1K 5% 1/10W	R68	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R27	1-216-073-00	METAL CHIP	10K 5% 1/10W	R69	1-216-025-00	METAL CHIP	100 5% 1/10W
R28	1-216-073-00	METAL CHIP	10K 5% 1/10W	R70	1-216-025-00	METAL CHIP	100 5% 1/10W
R29	1-216-025-00	METAL CHIP	100 5% 1/10W	R71	1-216-089-00	METAL CHIP	47K 5% 1/10W
R30	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R72	1-216-073-00	METAL CHIP	10K 5% 1/10W
R31	1-216-043-00	METAL CHIP	560 5% 1/10W	R73	1-216-073-00	METAL CHIP	10K 5% 1/10W
R32	1-216-049-00	METAL CHIP	1K 5% 1/10W	R74	1-216-013-00	METAL CHIP	33 5% 1/10W
R33	1-216-035-00	METAL CHIP	270 5% 1/10W	R75	1-216-061-00	METAL CHIP	3.3K 5% 1/10W (AEP, UK, G, IT)
R34	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R79	1-216-049-00	METAL CHIP	1K 5% 1/10W (EXCEPT G, IT)
R35	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R79	1-216-055-00	METAL CHIP	1.8K 5% 1/10W (G, IT)
R36	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	< VARIABLE RESISTOR >			
R37	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	RV51	1-238-601-11	RES, ADJ, CARBON 22K	
R38	1-216-025-00	METAL CHIP	100 5% 1/10W	RV52	1-238-601-11	RES, ADJ, CARBON 22K	
R39	1-216-061-00	METAL CHIP	3.3K 5% 1/10W (AEP, UK, G, IT)	< COIL >			
R40	1-216-043-00	METAL CHIP	560 5% 1/10W (AEP, UK, G, IT)	T1	1-402-547-11	COIL (ANT FOR SW3)	(EXCEPT AEP, UK, G, IT)
R41	1-216-049-00	METAL CHIP	1K 5% 1/10W (AEP, UK, G, IT)	T2	1-406-415-11	COIL (OSC FOR SW3)	(EXCEPT AEP, UK, G, IT)
R42	1-216-035-00	METAL CHIP	270 5% 1/10W (AEP, UK, G, IT)	< CONNECTOR >			
R43	1-216-081-00	METAL CHIP	22K 5% 1/10W (AEP, UK, G, IT)	* TP51	1-564-336-00	PIN, CONNECTOR 2P	(EXCEPT G, IT)
R44	1-216-057-00	METAL CHIP	2.2K 5% 1/10W (AEP, UK, G, IT)	* TP51	1-568-449-11	HOUSING, CONNECTOR (PC BOARD)	3P (G, IT)
R45	1-216-065-00	METAL CHIP	4.7K 5% 1/10W (AEP, UK, G, IT)	< CRYSTAL >			
R46	1-216-065-00	METAL CHIP	4.7K 5% 1/10W (AEP, UK, G, IT)	X21	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)	
R47	1-216-025-91	METAL CHIP	100 5% 1/10W (EXCEPT AEP, UK, G, IT)	X51	1-577-075-11	OSCILLATOR, CERAMIC 456kHz	
R51	1-216-049-00	METAL CHIP	1K 5% 1/10W	*****			
R52	1-216-081-00	METAL CHIP	22K 5% 1/10W	*	A-4360-266-A	TUNER BOARD, COMPLETE	(AEP, UK)
R53	1-216-085-00	METAL CHIP	33K 5% 1/10W	*	A-4360-270-A	TUNER BOARD, COMPLETE	(IT)
R54	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	*	A-4360-274-A	TUNER BOARD, COMPLETE	(G)
R55	1-216-075-00	METAL CHIP	12K 5% 1/10W (EXCEPT G, IT)	*	A-4360-278-A	TUNER BOARD, COMPLETE	(EXCEPT AEP, UK, G, IT)
R56	1-216-075-00	METAL CHIP	12K 5% 1/10W (G, IT)	*****			
R57	1-216-073-00	METAL CHIP	10K 5% 1/10W	< CAPACITOR >			
R58	1-216-066-00	METAL CHIP	5.1K 5% 1/10W	C124	1-126-160-11	ELECT	1uF 20% 50V
R59	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	C125	1-126-160-11	ELECT	1uF 20% 50V
R60	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	C126	1-126-160-11	ELECT	1uF 20% 50V
				C127	1-126-160-11	ELECT	1uF 20% 50V
				C128	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V

TUNER

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark		
C129	1-126-096-11	ELECT	10uF	20%	35V	Q105	8-729-101-07	TRANSISTOR	2SB798-DL	
C130	1-126-933-11	ELECT	100uF	20%	16V	Q107	8-729-805-65	TRANSISTOR	2SA1344	
C131	1-126-933-11.	ELECT	100uF	20%	16V	Q108	8-729-805-41	TRANSISTOR	2SC3398	
C132	1-164-346-11	CERAMIC CHIP	1uF		16V	Q109	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
C133	1-163-104-00	CERAMIC CHIP	30PF	5%	50V	< RESISTOR >				
C134	1-163-104-00	CERAMIC CHIP	30PF	5%	50V	R123	1-216-097-00	METAL CHIP	100K 5%	1/10W
C135	1-136-173-00	FILM	0.47uF	5%	50V	R124	1-216-097-00	METAL CHIP	100K 5%	1/10W
C136	1-164-232-11	CERAMIC CHIP	0.01uF		50V	R125	1-216-097-00	METAL CHIP	100K 5%	1/10W
C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V	R126	1-216-097-00	METAL CHIP	100K 5%	1/10W
C138	1-126-157-11	ELECT	10uF	20%	16V	R127	1-216-097-00	METAL CHIP	100K 5%	1/10W
C139	1-126-160-11	ELECT	1uF	20%	50V	R128	1-216-097-00	METAL CHIP	100K 5%	1/10W
C140	1-164-232-11	CERAMIC CHIP	0.01uF		50V	R129	1-216-097-00	METAL CHIP	100K 5%	1/10W
C141	1-124-584-00	ELECT	100uF	20%	10V	R130	1-216-097-00	METAL CHIP	100K 5%	1/10W
C142	1-164-346-11	CERAMIC CHIP	1uF		16V	R131	1-216-049-00	METAL CHIP	1K 5%	1/10W
C143	1-124-589-11	ELECT	47uF	20%	16V	R132	1-216-049-00	METAL CHIP	1K 5%	1/10W
C144	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	R133	1-216-049-00	METAL CHIP	1K 5%	1/10W
C147	1-126-933-11	ELECT	100uF	20%	16V	R134	1-216-049-00	METAL CHIP	1K 5%	1/10W
< CONNECTOR >										
* CN101	1-568-834-11	SOCKET, CONNECTOR 15P				R135	1-216-049-00	METAL CHIP	1K 5%	1/10W
CN102	1-695-829-11	HOUSING, CONNECTOR 11P				R136	1-216-049-00	METAL CHIP	1K 5%	1/10W
CN103	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)				R137	1-216-049-00	METAL CHIP	1K 5%	1/10W
CN104	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)				R138	1-216-057-00	METAL CHIP	2.2K 5%	1/10W
* CN105	1-695-808-11	CONNECTOR, PC BOARD (RECEPTACLE)				R139	1-216-073-00	METAL CHIP	10K 5%	1/10W
CN106	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)				R140	1-216-049-00	METAL CHIP	1K 5%	1/10W
< DIODE >										
D101	8-719-990-39	DIODE	DCB010			R141	1-216-049-00	METAL CHIP	1K 5%	1/10W
D102	8-719-021-95	DIODE	UZM11B			R142	1-216-049-00	METAL CHIP	1K 5%	1/10W
D103	8-719-990-39	DIODE	DCB010			R143	1-216-049-00	METAL CHIP	1K 5%	1/10W
D104	8-719-990-39	DIODE	DCB010			R144	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
< IC >										
IC102	8-759-051-64	IC	TC9215F-TP1			R145	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
IC104	8-759-163-39	IC	uPD78011GC-513-AB8			R146	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
IC105	8-759-510-43	IC	PST572C			R147	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
IC106	8-759-095-56	IC	X24C08SC7000			R148	1-216-073-00	METAL CHIP	10K 5%	1/10W
< JUMPER RESISTOR >										
JW103	1-216-295-00	METAL CHIP	0	5%	1/10W (AEP, UK, G, IT)	R149	1-216-049-00	METAL CHIP	1K 5%	1/10W
JW104	1-216-295-00	METAL CHIP	0	5%	1/10W (EXCEPT AEP, UK, G)	R150	1-216-073-00	METAL CHIP	10K 5%	1/10W
JW105	1-216-295-00	METAL CHIP	0	5%	1/10W (EXCEPT G, IT)	R151	1-216-073-00	METAL CHIP	10K 5%	1/10W
< TRANSISTOR >										
Q103	8-729-232-69	TRANSISTOR	2SK208-GR3			R152	1-216-073-00	METAL CHIP	10K 5%	1/10W
Q104	8-729-209-15	TRANSISTOR	2SD2012			R153	1-216-073-00	METAL CHIP	10K 5%	1/10W
						R154	1-216-049-00	METAL CHIP	1K 5%	1/10W
						R155	1-216-049-00	METAL CHIP	1K 5%	1/10W
						R156	1-216-049-00	METAL CHIP	1K 5%	1/10W
						R157	1-216-049-00	METAL CHIP	1K 5%	1/10W
						R158	1-216-073-00	METAL CHIP	10K 5%	1/10W
						R159	1-216-073-00	METAL CHIP	10K 5%	1/10W
						R160	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
						R161	1-216-001-00	METAL CHIP	10 5%	1/10W
						R162	1-216-073-00	METAL CHIP	10K 5%	1/10W
						R163	1-216-065-00	METAL CHIP	4.7K 5%	1/10W
						R164	1-216-073-00	METAL CHIP	10K 5%	1/10W
						R165	1-216-073-00	METAL CHIP	10K 5%	1/10W
						R166	1-216-073-00	METAL CHIP	10K 5%	1/10W

Ref. No.	Part No.	Description	Remark		
R167	1-216-073-00	METAL CHIP	10K	5%	1/10W
R168	1-216-073-00	METAL CHIP	10K	5%	1/10W
R169	1-216-097-00	METAL CHIP	100K	5%	1/10W
R170	1-216-097-00	METAL CHIP	100K	5%	1/10W
R171	1-216-097-00	METAL CHIP	100K	5%	1/10W
R172	1-216-097-00	METAL CHIP	100K	5%	1/10W

< TERMINAL >

* TM101 1-537-288-11 TERMINAL BOARD, ANTENNA (PAL) (ANTENNA)
(AEP, UK, G, IT)
TM101 1-537-466-11 TRAMINAL BOARD (ANT) (ANNTELENA)
(EXCEPT AEP, UK, G, IT)

< VIBRATOR >

X102 1-579-600-11 VIBRATOR, CERAMIC (8.39MHz)

MISCELLANEOUS

- 6 1-696-739-11 WIRE (FLAT TYPE) (11 CORE)
- 7 1-696-738-11 WIRE (FLAT TYPE) (5 CORE)
- 9 1-690-753-11 WIRE (FLAT TYPE) (22 CORE)
- 12 1-696-740-11 WIRE (FLAT TYPE) (15 CORE)
- * 13 1-695-810-11 CONNECTOR, PC BOARD (PLUG) 8P

- * 14 1-695-809-11 CONNECTOR, PC BOARD (PLUG) 4P
- 22 1-696-750-11 WIRE (FLAT TYPE) (9 CORE)
- △105 8-848-144-11 DEVICE, OPTICAL KSS-240A
- 106 1-575-001-11 WIRE, FLAT TYPE (12 CORE)
- M101 X-4917-523-3 MOTOR ASSY (SPINDLE)

- M102 X-4917-504-1 MOTOR ASSY (SLED)
- M291 A-4608-362-A MOTOR (L) ASSY

HARDWARE LIST

- #1 7-682-547-09 SCREW +BVTT 3X6 (S)
- #2 7-685-871-01 SCREW +BVTT 3X6 (S)
- #3 7-621-255-15 SCREW +P 2X3
- #4 7-685-134-19 SCREW +BTP 2.6X8 TYPE2 N-S
- #5 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S

- #6 7-621-775-10 SCREW +B 2.6X4
- #7 7-624-105-04 STOP RING 2.3, TYPE -E
- #8 7-685-234-19 SCREW +KTP 2.6X8 TYPE2NON-SLIT

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

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-957-656-31
Including 9-957-656-11
9-957-656-91

Sony Corporation
Audio Group

—52—

Published by Audio Sector Quality Assurance Dept.

English
93H05015-1 (2)
Printed in Japan
© 1993. 2