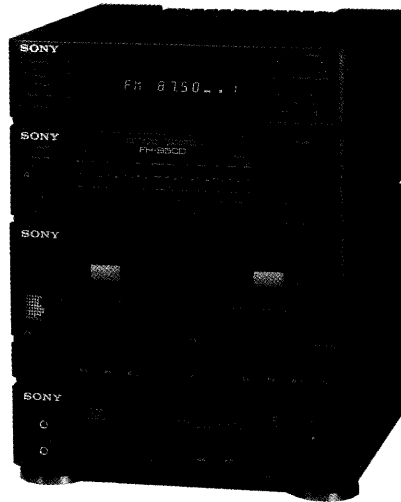



HCD-H5

SERVICE MANUAL

*US Model
Canadian Model
AEP Model
E Model*



HCD-H5 is the tuner, deck, CD and amplifier section in FH-B5CD.

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

SPECIFICATIONS

Tuner Section

System FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108 MHz
Antenna Telescopic antenna
Antenna terminals 75 ohms unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
For US, Canadian model MW: 530 – 1,710 kHz

For Italian model MW: 522 – 1,611 kHz
LW: 144 – 288 kHz

For AEP, WG and EE model MW: 531 – 1,602 kHz
LW: 153 – 279 kHz

For E, EA and AUS model MW: 531 – 1,602 kHz
SW: 5.95 – 17.9 MHz

Antenna AM loop antenna, External antenna terminals

Intermediate frequency 450 kHz

Amplifier Section

AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 16 ohm loads, both channels driven, from 60 Hz – 20 kHz; rated

CD Section	Model Name Using Similar Mechanism	HCD-H7/H1500	
	CD Mechanism Name	CDM13A-5BD3	
	Base Unit Name	BU-5BD3	
DECK Section	Model Name Using Similar Mechanism	New	
	Tape Transport Mechanism Type	DECK A	TCM-180VA-N2
		DECK B	TCM-180VB-N2

16 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

Continuous RMS power output
20 + 20 watts (6 ohms at 1 kHz, 5% THD)

Peak music power output (for the models other than AEP, WG, IT and EE)
200 watts (6 ohms)

Inputs
MIX MIC (minijack):
sensitivity 1 mV, impedance 600 ohms

For AEP, WG, IT and EE model
PHONO (phono jack):
sensitivity 5 mV, impedance 47 kilohms

For US, Canadian, E, EA and AUS model
AUX/VIDEO (phono jack):
sensitivity 400 mV, impedance 47 kilohms

— continued on next page —

COMPACT DISC DECK RECEIVER
SONY®



TABLE OF CONTENTS

Outputs HEADPHONES (stereo minijack):
accepts headphones of 8 ohms or more.
SPEAKER:
accepts speakers of 6 to 16 ohms.

Compact Disc Player Section

System Compact disc digital audio system
Laser Semiconductor laser (λ=780 nm)
Emission duration: Continuous
Laser output Max. 44.6 mW*
* This output is the value measured at distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Signal to noise ratio More than 95 dB
Dynamic range More than 90 dB
Harmonic distortion Less than 0.05% (at 1 kHz)
Channel separation More than 90 dB

Cassette Deck Section

Recording system 4-track 2-channel stereo
Frequency response (DOLBY NR OFF)
60 – 13,000 Hz (±3 dB), using TYPE I cassette (Sony HF-S)
60 – 14,000 Hz (±3 dB), using TYPE II cassette
Wow and flutter 0.1% WRMS ±0.3% (DIN)

General



Destination	Power requirements	Power consumption
US	120 V AC, 60 Hz	60 watts
Canadian	120 V AC, 60 Hz	80 watts
AEP, WG, EE	220 V AC, 50/60 Hz	60 watts
IT	220V AC, 50Hz	60 watts
E, EA, AUS	110 – 120 V or 220 – 240 V AC adjustable, 50/60 Hz	60 watts

Dimensions Approx. 615 × 285 × 255 mm (w/h/d)
(24 1/4 × 11 1/4 × 10 1/8 inches) incl. projecting parts and controls
Weight Approx. 11.2 kg (24 lb 11 oz)
Accessories supplied AM loop antenna (1)
Remote commander (1)
Sony SUM-3 (NS) batteries (2)

Design and specifications subject to change without notice.


Note: WG: West Germany, IT: Italian
EA : Saudi Arabia, AUS: Australian
EE : East European

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.

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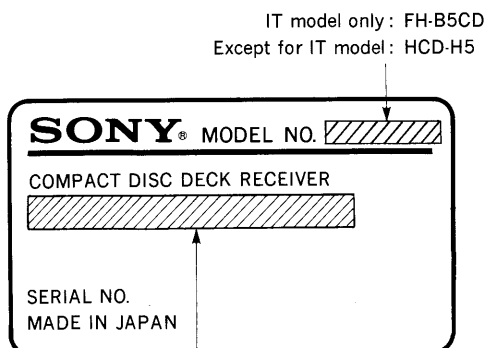
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 SERVICING NOTES

MODEL IDENTIFICATION

— Specification Labels —



US model: AC: 120V~60Hz 60W
Canadian model: AC: 120V~60Hz 80W
AEP, WG, EE model: AC: 220V~50/60Hz 60W
IT model: AC: 220V~50Hz 60W
E, EA, AUS model: AC: 110-120/220-240V~50/60Hz 60W

On operating voltage

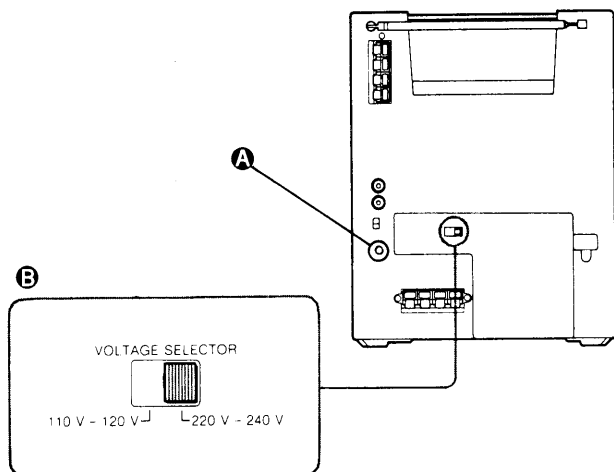
Before operating the stereo system, check that the operating voltage of your system is identical with the voltage of your local power supply. **A**

US Canadian model	120V AC, 60Hz
AEP, WG, EE model	220V AC, 50/60Hz
IT model	220V AC, 50Hz
E, EA, AUS model	110-120, 220-240V AC adjustable, 50/60Hz

On operation

- If the system do not operate due to power noise, press the system reset button at the rear. The system will resume operation. **B**

At this time, the system returns to the factory-set mode. Please set the clock, timer, or store stations again.



SAFETY CHECK-OUT

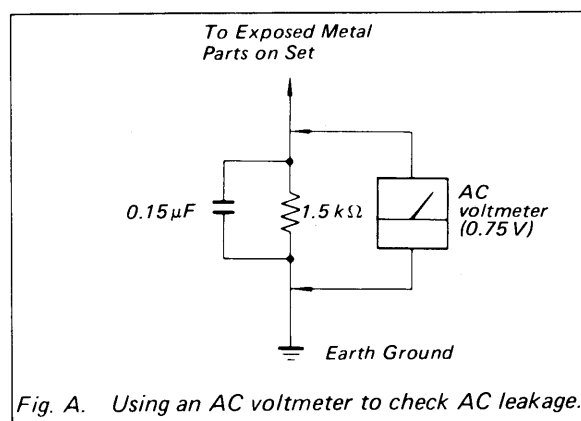
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

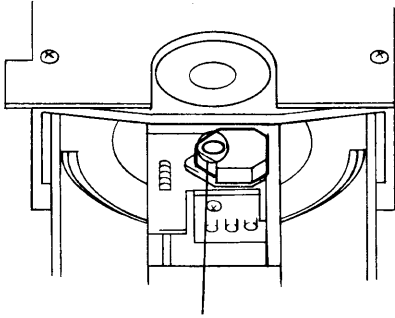
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



LASER DIODE AND FOCUS SEARCH 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 objecting lens.



- ① Confirm that laser beam is spread.
- ② Up and down motion of the objective lens. (3 times)

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

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

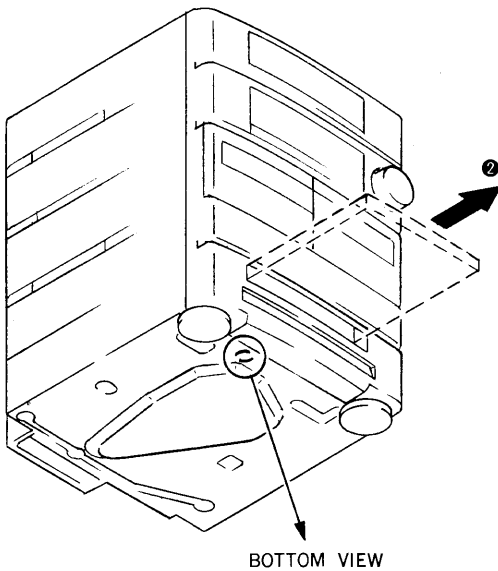
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

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

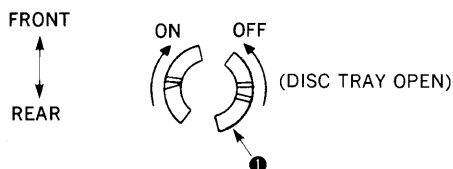
NOTES ON LASER DIODE EMISSION CHECK

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 30 cm away from the objective lens.

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF



- (1) Insert to ① for tapering driver, etc., and turn in the direction of arrow OFF. (Disc tray open)
- (2) Tray as come out little of front panel, pull out in the direction of arrow ② by hand.



PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μ W*

* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iøvrigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-dioe data

- Materiale: GaAlAs
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laseroutput: Max. 0,4 mW*

* Målt i 1,6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.

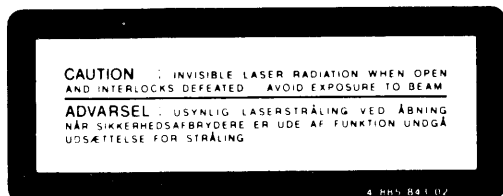
- Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laserdioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning



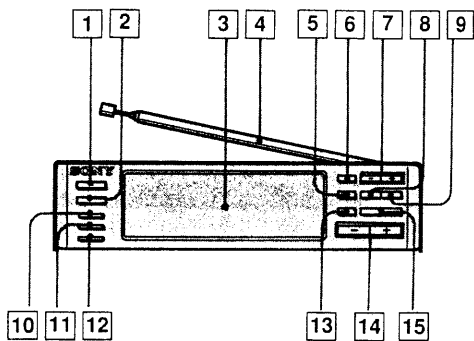
VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkyvätöntä) silmille vaarallista lasersäteilyä.

SECTION 2 GENERAL

2-1. PARTS IDENTIFICATIONS

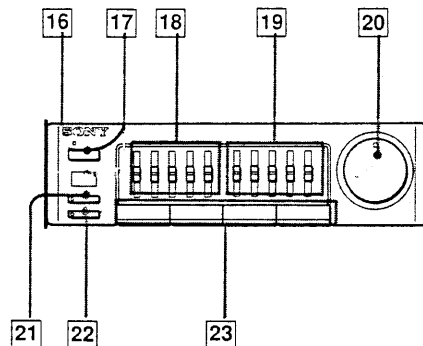
Tuner Section A

- 1 TIMER CONTROL button
- 2 SLEEP timer button
- 3 Display window
- 4 Telescopic antenna
- 5 AUTO tuning button
- 6 BAND selector
- 7 TUNING +/- buttons
- 8 MEMORY button
- 9 NEXT/ENTER button
- 10 TIMER SET button
- 11 CLOCK DISPLAY button
- 12 CLOCK SET button
- 13 ST/MUTE (stereo/muting) button
- 14 PRESET/TIMER +/- (preset station scan/time set) buttons
- 15 SHIFT (memory page select) button



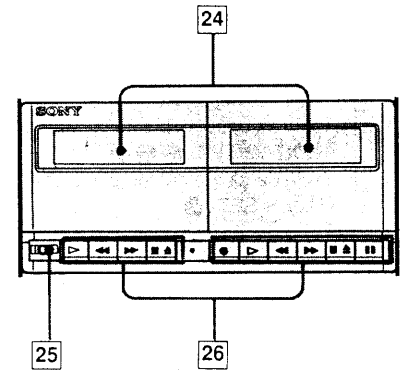
Amplifier Section B

- 16 STANDBY indicator
It is lit as long as the AC power cord is connected to a wall outlet.
- 17 POWER switch
- 18 5-band graphic equalizer for left channel
- 19 5-band graphic equalizer for right channel
- 20 VOLUME control
- 21 SURROUND effect button
- 22 DBFB (Dynamic Bass Feedback) button (for AEP, WG, IT and EE model)
SAT (Super Acoustic Turbo) button (for US, Canadian, E, EA and AUS model)
- 23 Function selectors



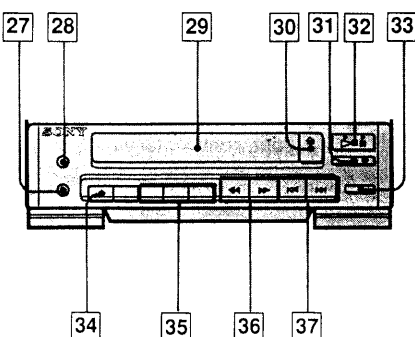
Cassette Deck Section C

- 24 Cassette holders
- 25 DOLBY NR (Dolby Noise Reduction) switch
- 26 Tape operation buttons
▷ : PLAY (playback) button
◀◀ : REW (rewind) button
▶▶ : FF (fast forward) button
■▲ : STOP/EJECT button
● : REC (record) button and indicator
|| : PAUSE button



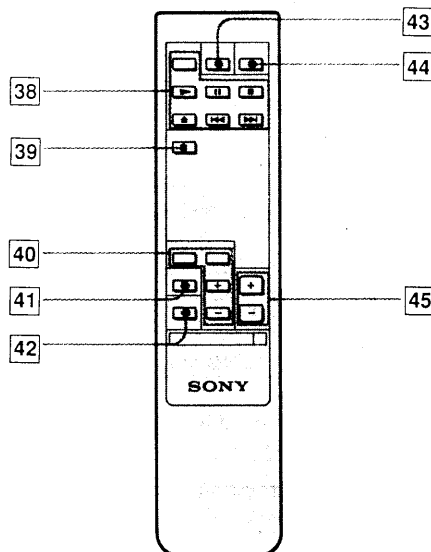
CD Player Section D

- 27 HEADPHONES jack (stereo minijack)
- 28 MIX MIC (microphone) jack (minijack)
- 29 Disc compartment
- 30 ▲ OPEN/CLOSE button
- 31 ■ (stop) button
- 32 ▷|| (play/pause) button and indicator
- 33 EDIT button
- 34 TIME display selector
- 35 PLAY MODE selectors
REPEAT play button
CONTINUE play button
SHUFFLE play button
PROGRAM play button
- 36 ◀◀ / ▶▶ (manual search) buttons
- 37 ◀◀ / ▶▶ (Automatic Music Sensor) buttons



Remote Commander E

- 38 CD player operation buttons
- 39 TAPE select button
- 40 Tuner operation buttons
- 41 PHONO select button
- 42 VIDEO/AUX select button
- 43 SLEEP timer button
- 44 POWER switch
- 45 VOL (volume) + - control buttons



Setting the Clock

Example: Set to 9:25 in the morning.
When the AC power cord is connected, the display shows:
0:00 for AEP, WG, IT and EE model
AM0:00 for US, Canadian, E, EA and AUS model.

- 1 Press **CLOCK SET**.
- 2 Set the hour with **PRESET/TIMER +/-** buttons
- 3 Press **NEXT/ENTER**.
- 4 Set the minute with **PRESET/TIMER +/-** buttons.
- 5 Press **NEXT/ENTER**.
The clock starts operating.

Information on the time

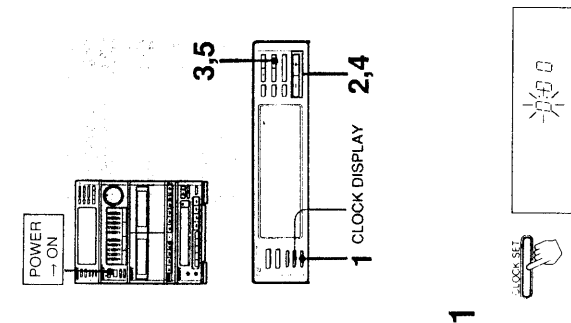
AEP, WG, IT and EE model
time in 24-hour cycle.
US, Canadian, E, EA and AUS model
time in 12-hour cycle.
AM 0:00 = midnight
PM 0:00 = noon

When a power interruption occurs

The power is backed up for approximately 5 minutes. If the power is recovered within 5 minutes, there is no need to reset the clock and timer. If it is longer than 5 minutes, both the clock and timer settings are erased, and "0:00" will flash on the display.

To check the present time while using the system

Press **CLOCK DISPLAY**.
The time display disappears after a few seconds.



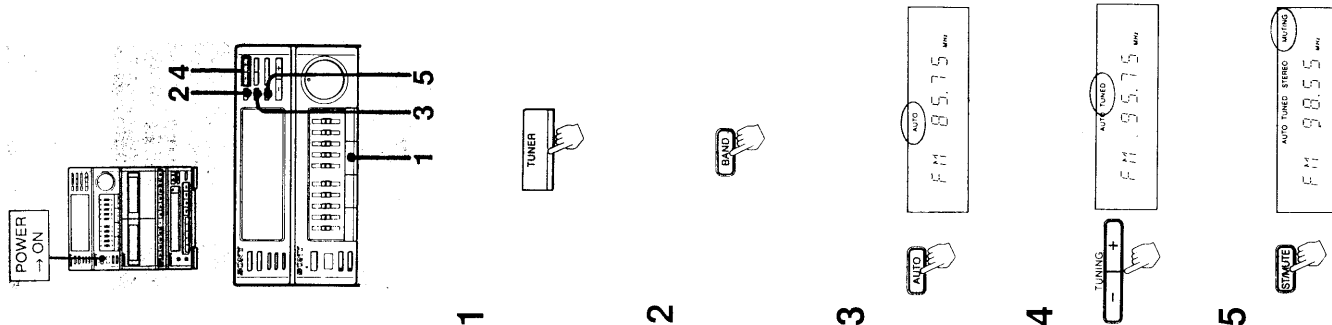
- 1
- 2
- 3
- 4
- 5

Tuning in Automatically

- 1 Press **TUNER**.
- 2 Press **BAND** repeatedly until the desired band appears.
As you press **BAND**, the band changes as follows:
US, Canadian model:
FM → SW → AM
AEP, WG, IT and EE model:
FM → MW → LW
E, EA and AUS model:
FM → SW → MW
- 3 Press **AUTO**.
Make sure that **AUTO** appears in the display.
- 4 Select the station with **TUNING +** or **-**.
- 5 For receiving **FM** stations with the stereo effect, press **ST/MUTE** so that **MUTING** appears.

Tuning in Manually

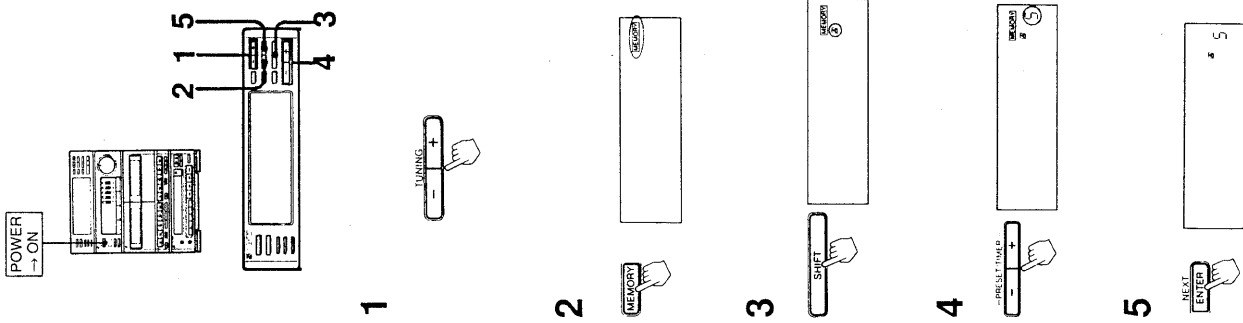
- 1 Press **TUNER**.
- 2 Select band by pressing **BAND**.
- 3 Press **AUTO** so that **AUTO** disappears from the display.
- 4 Select station with **TUNING +** or **-**.



- 1
- 2
- 3
- 4
- 5

Storing Stations

- 1 Tune in the desired station.
- 2 Press **MEMORY**. **MEMORY** appears for several seconds.
- 3 While **MEMORY** is on, press **SHIFT** to select the memory page (A, B or C).
The memory pages (A, B or C) can be classified according to the music category, station band, etc.
- 4 While **MEMORY** is on, press **PRESET/TIMER + or -** to select the number (1 to 10).
- 5 Press **ENTER**. **MEMORY** disappears, and the station is stored.
- 6 Repeat 1 to 5 for each station to be stored.



If you cannot store a station successfully

Press **MEMORY** again so that **MEMORY** appears, and then select the desired page and number.
Be sure to operate while **MEMORY** is on (approx. 4 seconds).

When you have selected the wrong page and number

Press **MEMORY** and then select the correct one.

To Tune in a Preset Station

- 1 Press **SHIFT** to select memory page.
- 2 Press **PRESET/TIMER + or -** to select the desired number.

Indicator on the display

TUNED: Appears when a station of sufficient signal strength is tuned in.
STEREO: Appears when an FM stereo program of sufficient signal strength is received.

When an FM stereo program is noisy or hard to receive

Press **ST/MUTE** so that **MUTING** disappears from the display. There will be no stereo effect, but the reception will be improved. Press again to restore the stereo effect.

Antenna adjustment **A**

For FM reception, adjust the length and direction of the telescopic antenna. For MW, LW, and SW reception, find the best location of the AM loop antenna.

Can a previously stored station be erased?

No. Erasing only is not possible, but storing a new station erases the previous one.

Important

The stored stations remain for approximately 1 week even if no power is supplied (e.g. the power cord is disconnected, etc.). If they are erased, store the stations again.

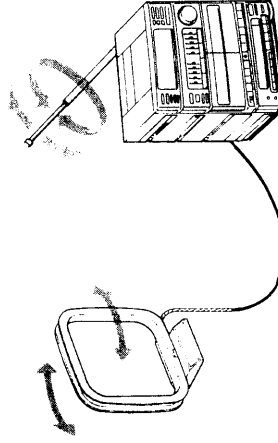
Changing the MW tuning interval (except for AEP, WG, IT and EE model)
The MW tuning interval is preset at the factory to 9 kHz. If you use a system where the frequency allocation system is different from the preset interval, change the interval as follows.

- 1 Turn on the power.
- 2 Tune in any 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

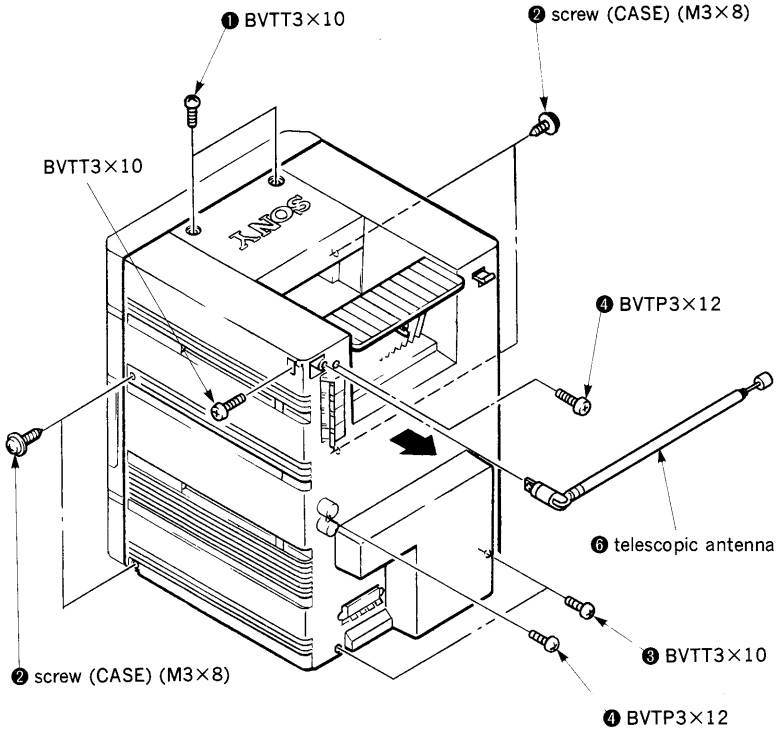
When the interval is changed, stored stations will be erased from the memory.



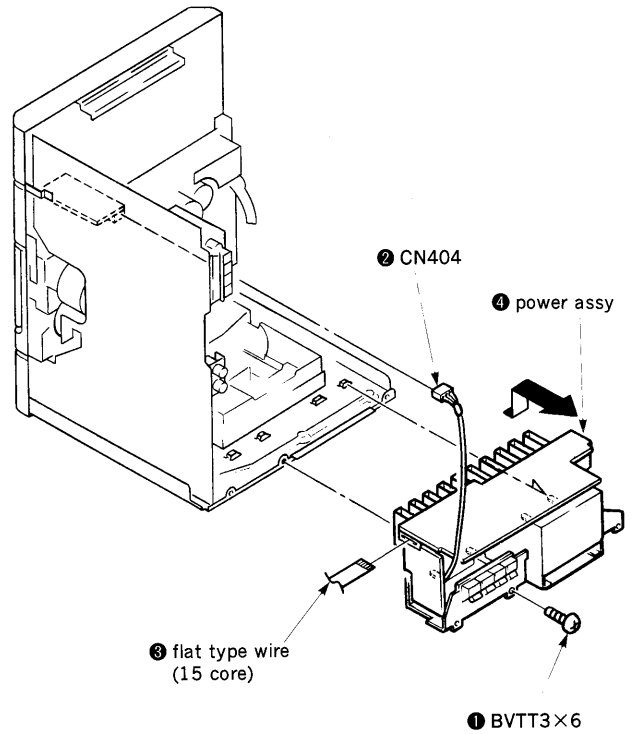
SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

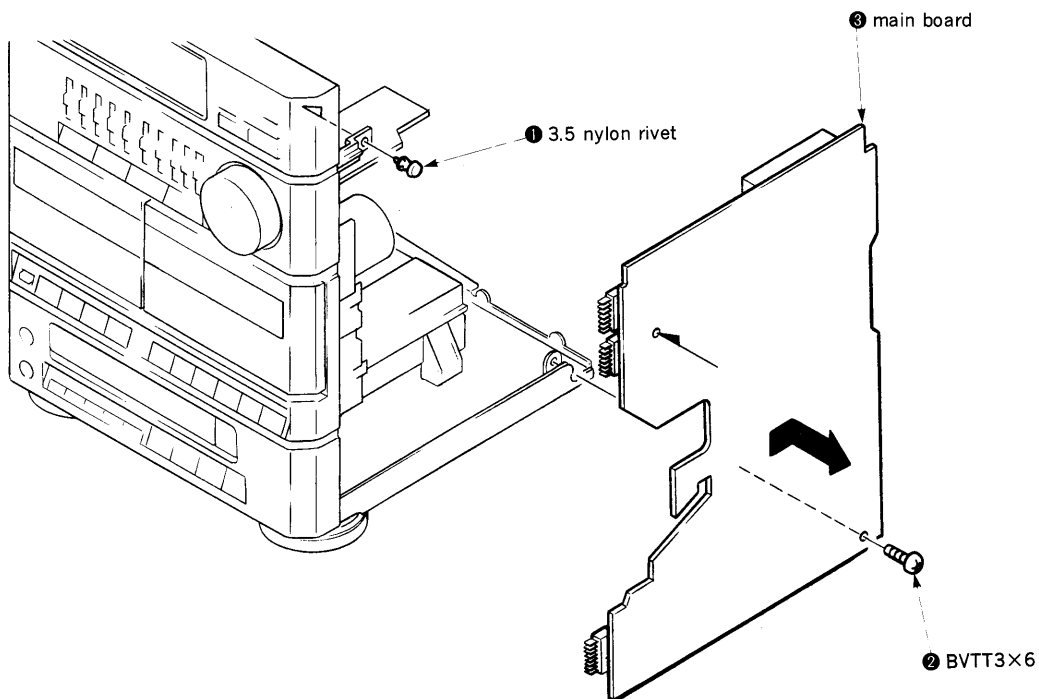
3-1. CASE ASSY



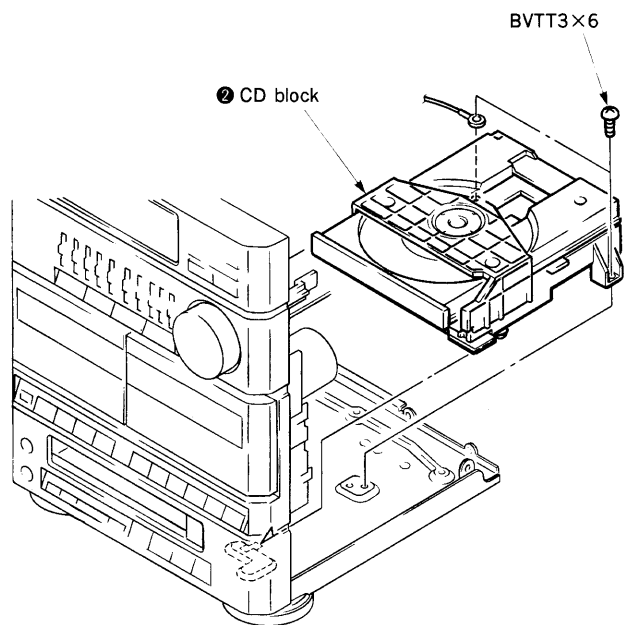
3-2. POWER ASSY



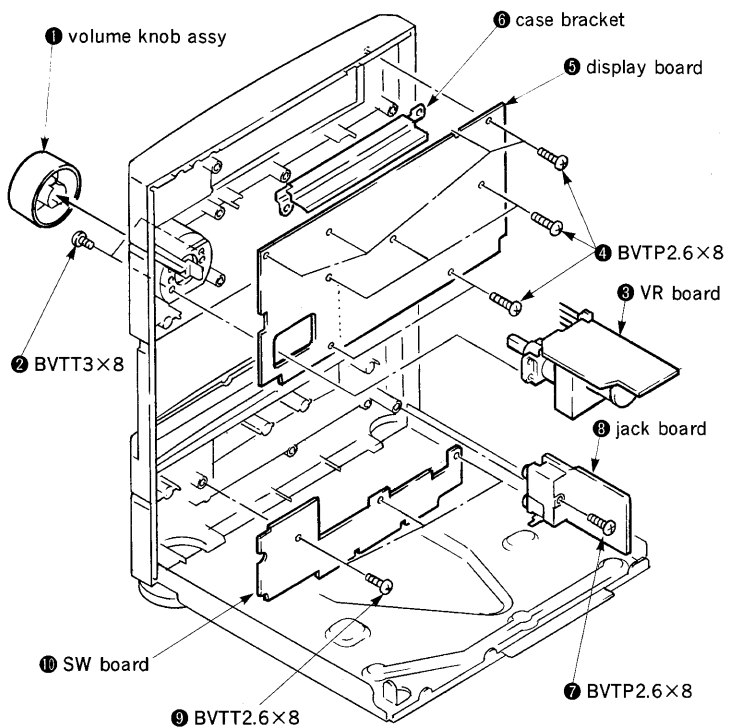
3-3. MAIN BOARD



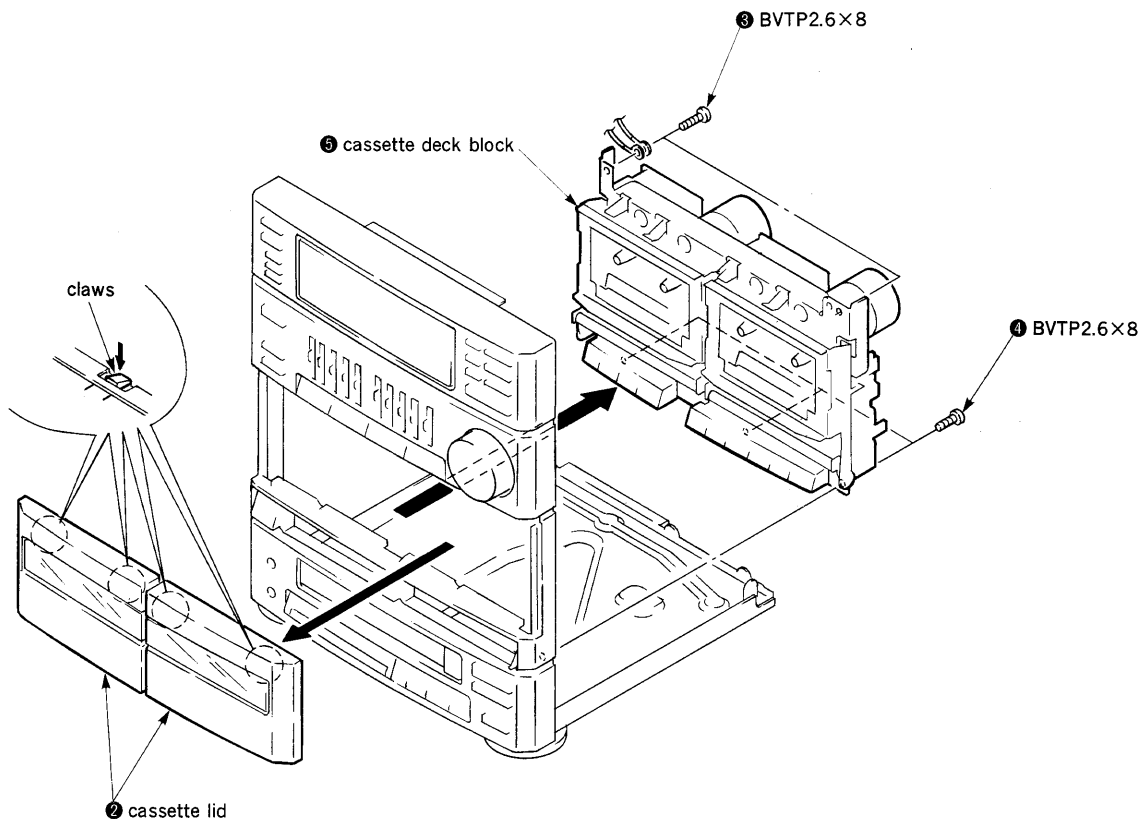
3-4. CD BLOCK



3-6. VR, DISPLAY, JACK, SW BOARDS



3-5. CASSETTE DECK BLOCK



SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

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

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

• Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	35 to 60g•cm (0.49 to 0.83oz•inch)
Forward back tension	CQ-102C	25 to 4.5g•cm (0.035 to 0.062oz•inch)
Forward, Reverse	CQ-102B	75 to 150g•cm (1.04 to 2.08oz•inch)

• Timer Test Mode

When BAND, SHIFT and PRESET/TIMER+ buttons are pressed at the same time the following time test operation is performed. After the operation, it becomes in the system reset mode. Take care that the frequency preset to the tuner is initialized.

- 1) POWER OFF
- 2) Timer set

Clock	AM10 : 23
Timer ON	AM10 : 24
Timer OFF	AM10 : 31
Function	TUNER
- 3) FL tube display (FLT501)

All light

↓ for 2 seconds

"AM 10 : 23"

↓ for 0.5 second

"AM 10 : 24"

↓ for 0.5 second

"TUNER" ← POWER ON

↓ for 2 seconds

Last channel

↓ for 1 second

"AM 00 : 00" flashing ← POWER ON
- 4) Finish

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION

1. The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
2. The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch : OFF

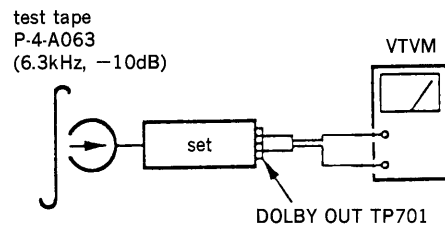
• Test Tape

Tape	Contents	Use
P-4-A063	6.3kHz, -10dB	Head Azimuth Adjustment
WS-48T	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

Procedure :

1. Mode : playback



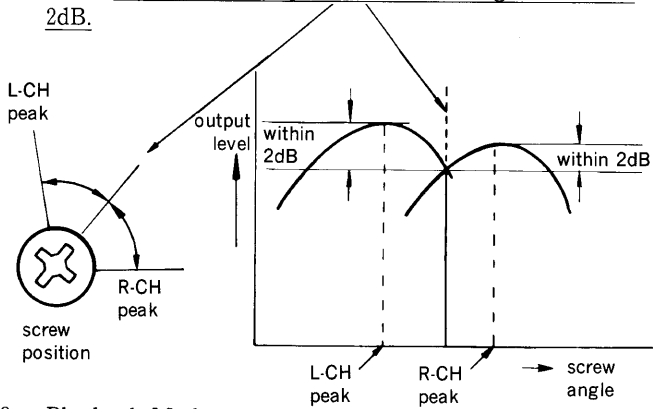
• Preset Frequency in Restting

When pressing the system reset button (S701) of the rear side of the unit, the following frequency is preset to the tuner part. When the system reset is performed in repairing, be sure to return to the frequency set by the user.

FM	US, Canadian model MW tuning interval : 10k (9k)		AEP, WG, IT, EE model () : Italian model	
	AM	MW	MW	LW
A1 87.5MHz	A6 530(531)kHz	A6 531(522)kHz	B1 153(144)kHz	
A2 88.0MHz	A7 620(621)kHz	A7 603kHz	B2 162kHz	
A3 98.0MHz	A8 1050(1053)kHz	A8 999kHz	B3 216kHz	
A4 106.0MHz	A9 1490(1485)kHz	A9 1404kHz	B4 270kHz	
A5 108.0MHz	A10 1710kHz	A10 1602(1611)kHz	B5 279(288)kHz	

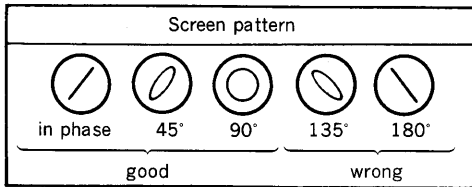
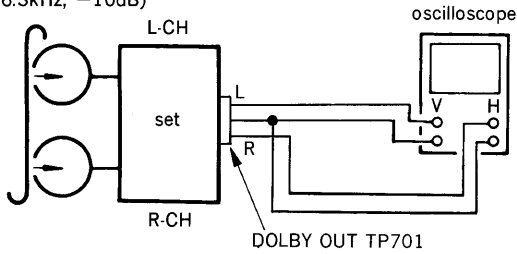
FM	E, EA, AUS model MW tuning interval : 9k (10k)	
	MW	SW
A1 87.5MHz	A6 531(530)kHz	B1 5.95MHz
A2 88.0MHz	A7 603(620)kHz	B2 7.00MHz
A3 98.0MHz	A8 999(1050)kHz	B3 12.00MHz
A4 106.0MHz	A9 1404(1490)kHz	B4 17.00MHz
A5 108.0MHz	A10 1602(1710)kHz	B5 17.90MHz

- 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 2dB.



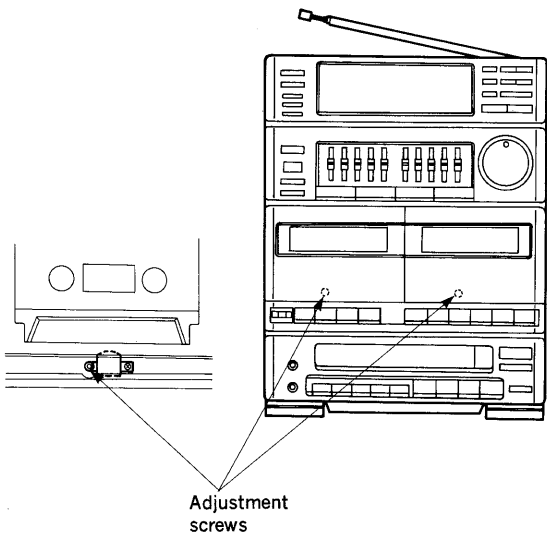
- Playback Mode

test tape
P-4-A063
(6.3kHz, -10dB)



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

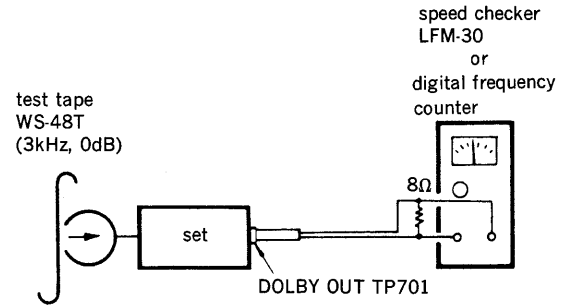
Adjustment Location :



Tape Speed Adjustment

Procedure :

Mode : playback

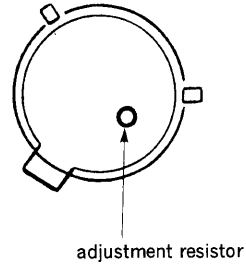


Speed checker	Digital frequency counter
± 0.67%	2,980 to 3,020Hz

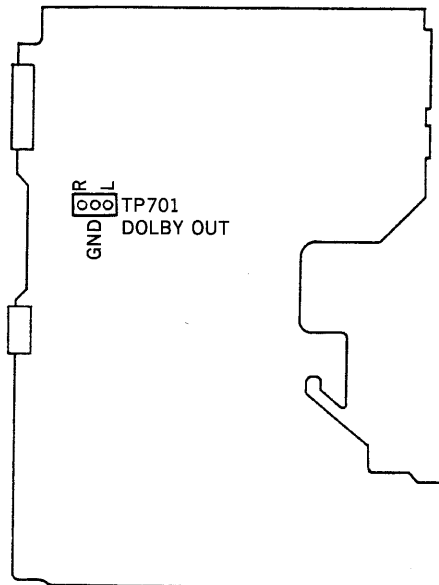
Frequency difference between the beginning and the end of the tape should be within 1% (30Hz).

Adjustment Location :

motor
deck A : M1
deck B : M2



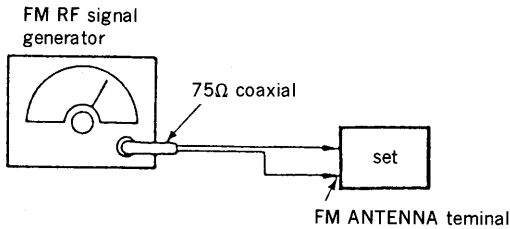
main board —component side—



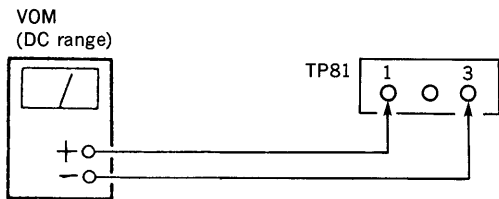
TUNER SECTION

FM SECTION ADJUSTMENTS

Setting :



Carrier frequency : 98MHz
 Modulation : 1kHz, 75kHz deviation (US, Canadian, E, EA, AUS)
 1kHz, 40kHz deviation (AEP, WG, IT, EE)



FM Discriminator Alignment (NULL Check)

Band : FM

Procedure :

1. Supply a 1mV (60dBμ) 98MHz signal from the ANTENNA terminal.
2. Tune the set to 98MHz.
3. Adjust IFT82 for 0V reading on the VOM.

Note : FM tuned indication lighting level adjustment should be made after FM discriminator alignment.

FM Tuned Indication Lighting Level Adjustment

Band : FM

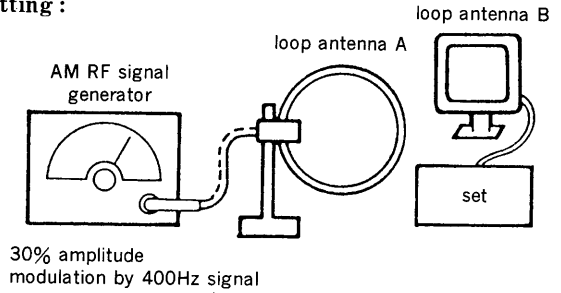
Procedure :

1. Supply a 32μV (30dBμ) 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98MHz.
3. Adjust RV81 so that the **TUNED** light up.

Adjustment Location : main board

AM SECTION ADJUSTMENTS

Setting :



MW (AM) Tuned Indication Lighting Level Adjustment

Band : MW or AM

Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 0.45mV (53dBμ).
2. Tune the set to 1,490kHz (US, Canadian) or 1,404kHz (AEP, WG, IT, EE, E, EA, AUS).
3. Adjust the RV82 so that the **TUNED** light up.

SW OSC Voltage Adjustment (E, EA, AUS model)

Band : SW

Procedure :

1. Connect the VOM to TP (OSC).
2. Tune the set to 5.95MHz.
3. Adjust T2 for 0.9 to 1.1V reading on the VOM.
4. Tune the set to 17.90MHz.
5. Adjust CT22 for 8.3 to 8.7V reading on the VOM.

SW Tracking Adjustment (E, EA, AUS model)

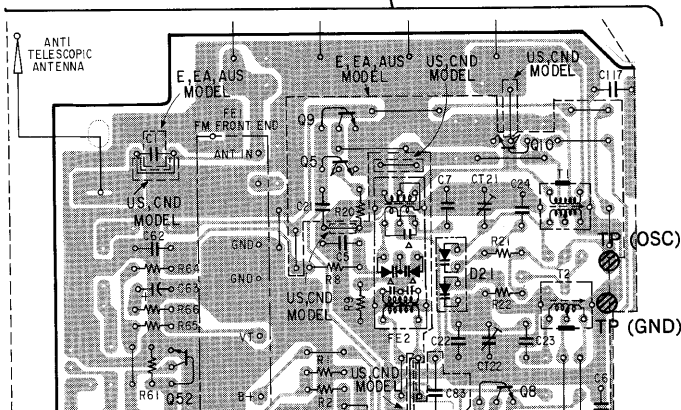
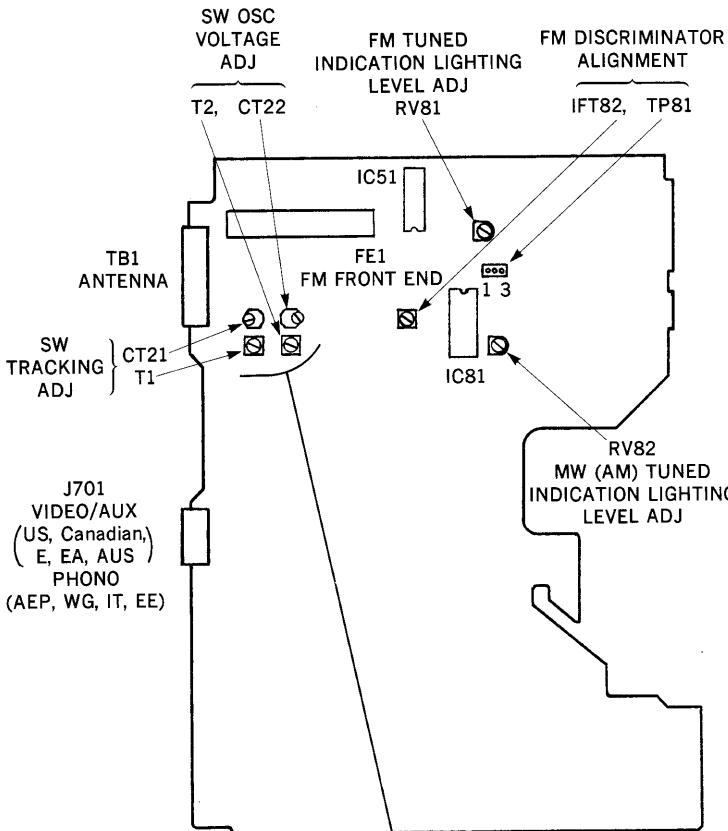
Band : SW

Procedure :

1. Connect the VOM to speaker terminal.
2. Adjust for a maximum reading on VTVM.

Signal generator and set frequency	Adjustment part
7.0MHz	T1
17.0MHz	CT21

Adjustment Location : main board —component side—

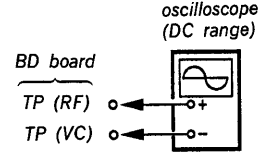


CD SECTION

1. Perform adjustments in the order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.

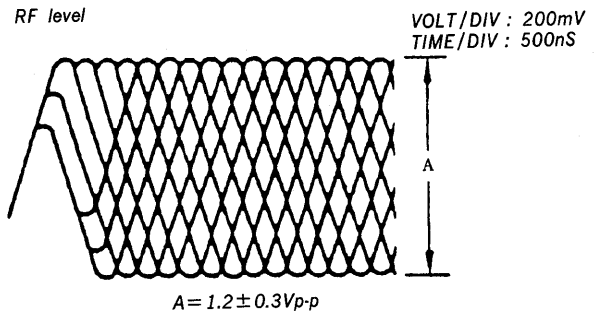
RF Level Check

Procedure :



1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
2. Confirm that RF level and eye pattern is optimum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the wave form.

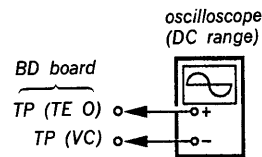
RF signal Reference Waveform (eye pattern)



REFERENCE

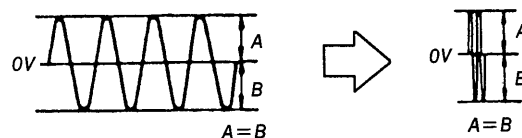
E-F Balance Check

Procedure :



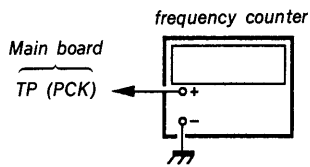
1. Connect test point TP (ADJ) and TP (TES) to ground with lead wire.
2. Connect oscilloscope to test point TP (TE O) and TP (VC) on BD board.
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V.
6. After check, remove the lead wire connected in step 1.

Note : Take sweep time as long as possible to obtain best waveform.



RF PLL Free-run Frequency Check

Procedure :



1. Turn POWER switch on.
2. Put disc (YEDS-18) in and playback.
3. Confirm that reading on frequency counter is 4.3218MHz.

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

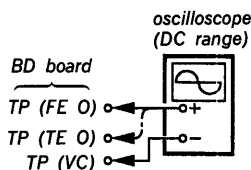
Symptoms \ Gain	Focus	Tracking
• The time until music starts becomes longer for STOP →▷ PLAY or automatic selection. (◀◀, ▶▶ buttons pressed.) (Normally takes about 1 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP →▷ PLAY or automatic selection. (◀◀, ▶▶ buttons pressed.)	—	low
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	low
• More noise during 2-axis device operation.	high	high

The following is a simple adjustment method.

—Primary Adjustment—

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment.

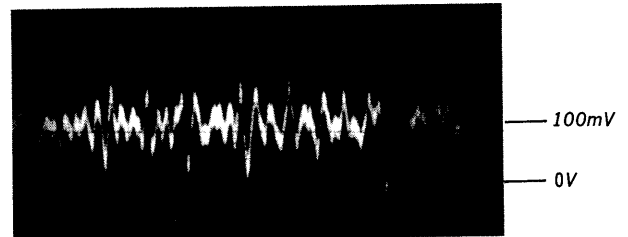
If the positions after the primary adjustment are only a little different, return the controls to the original position.



Procedure :

1. Keep the set horizontal.
If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
2. Insert disc (YEDS-18) and press ▷ PLAY button.
3. Connect oscilloscope to TP (FEO) and TP (VC) on BD board.
4. Adjustment RV102 on digital board so that the waveform is as shown in the figure below. (focus gain adjustment)

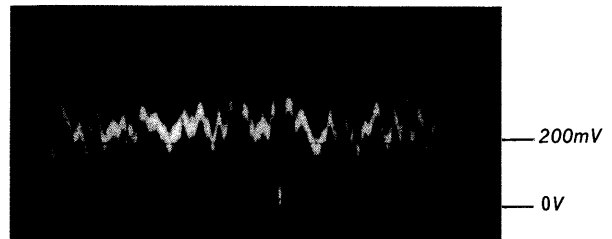
VOLT/DIV : 100mV
TIME/DIV : 2mS



- Incorrect Examples (DC level changes more than on adjusted waveform)

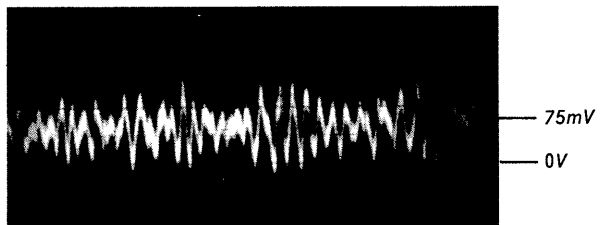
low focus gain

VOLT/DIV : 100mV
TIME/DIV : 2mS



high focus gain

VOLT/DIV : 100mV
TIME/DIV : 2mS



5. Connect oscilloscope to TP (TEO) and TP (VC) on BD board.
6. Adjusted RV101 on digital board so that the waveform is as shown the figure below. (tracking gain adjustment)



- Incorrect Examples (fundamental wave appears)

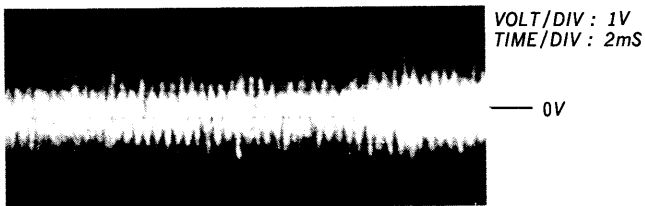
low tracking gain

VOLT/DIV : 1V
TIME/DIV : 2mS

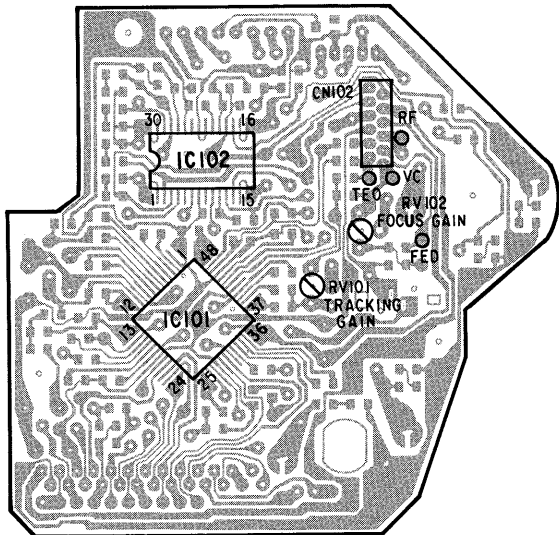


SECTION 6 DIAGRAMS

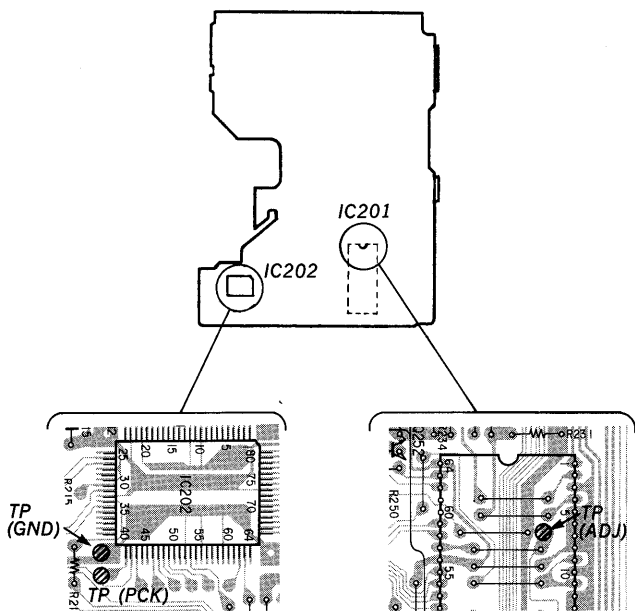
high tracking gain
(high fundamental wave)
than for low gain



Adjustment Locations:
BD board — conductor side —

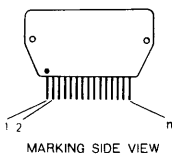


main board — component side —



6-1. SEMICONDUCTOR LEAD LAYOUTS

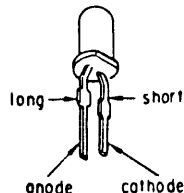
STK-4122MK2



2SK246-GR3
2SK246-Y



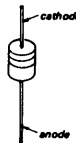
SEL2210W-D
SEL4214R-LC05
SEL4914R-LC05



DTA114ES
DTA144ES
DTC114ES
DTC144ES
2SC2603-EF
2SC2724-CD
2SC3622A-LK



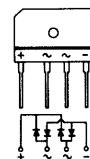
HZS6B1L
HZS7B3L
HZS7C2L
UZ-4.7BSC
UZL-24L
UZL-9H1
1SS120
11ES2



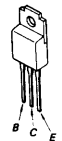
DTC114TS
2SA1175-HFE



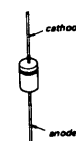
RBA-402



2SB1187-EF
2SD1761-EF



UZP-5.1BC



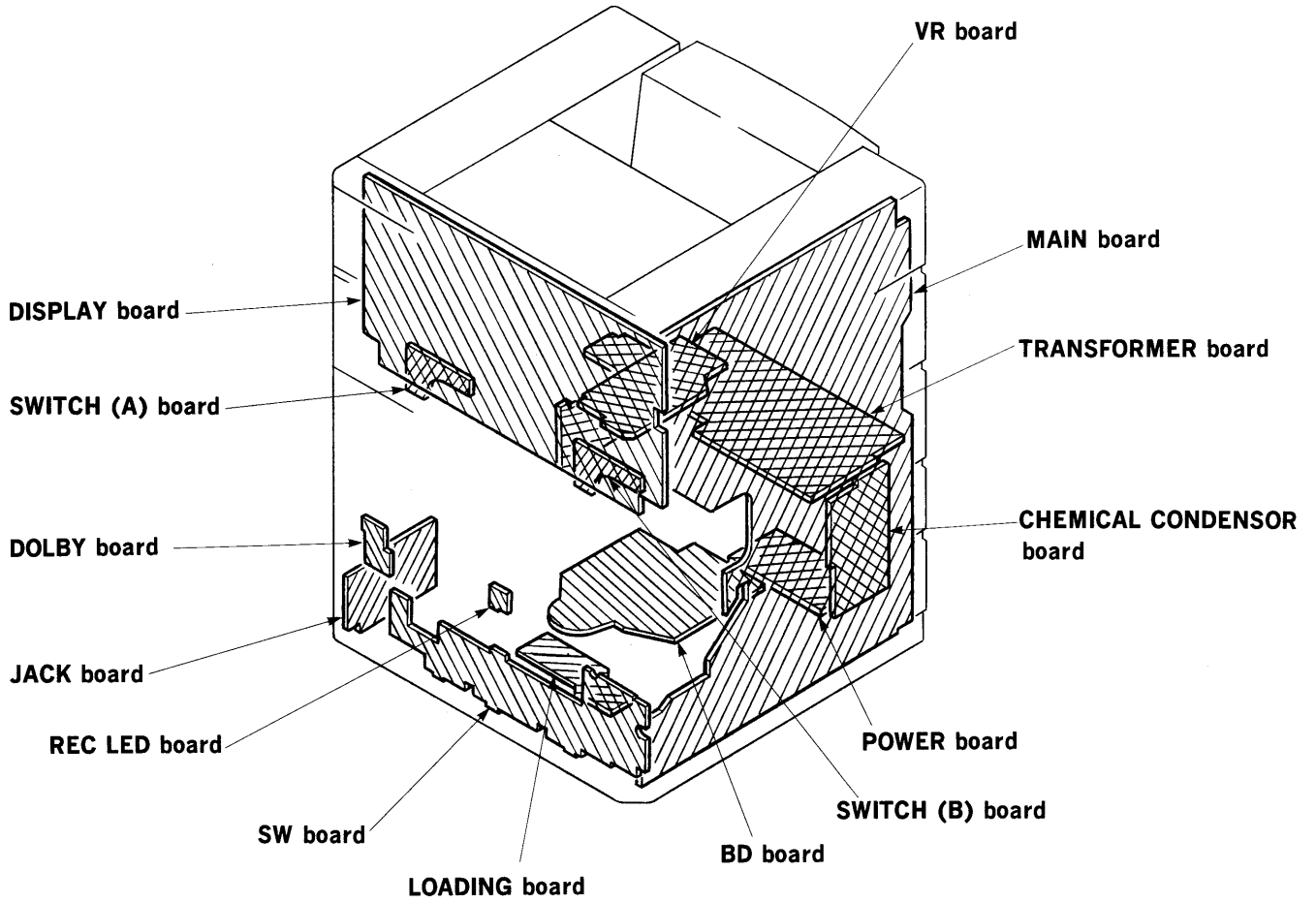
2SC3112-B
2SD1387
2SD1616A-K



GL-1EG112-CD
GL-1HY112-CD



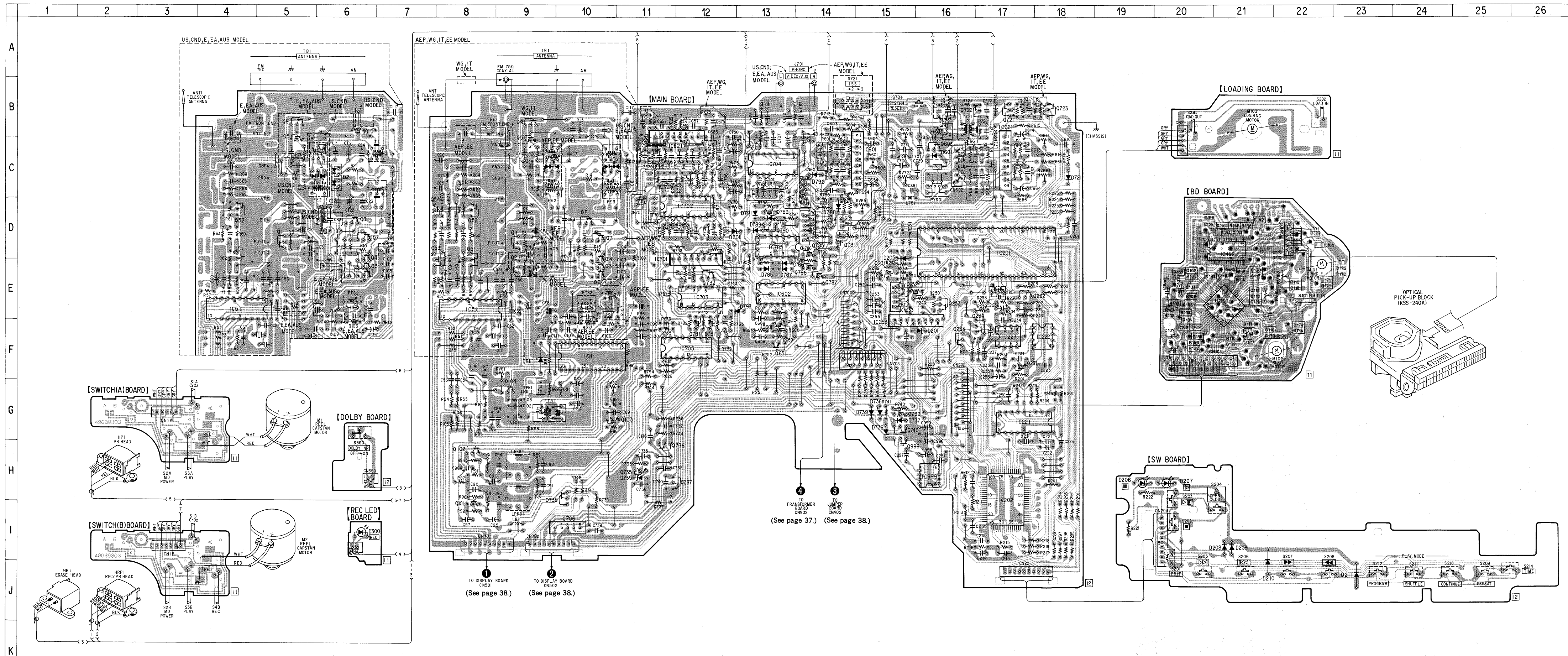
6-2. CIRCUIT BOARDS LOCATION



Semiconductor Location

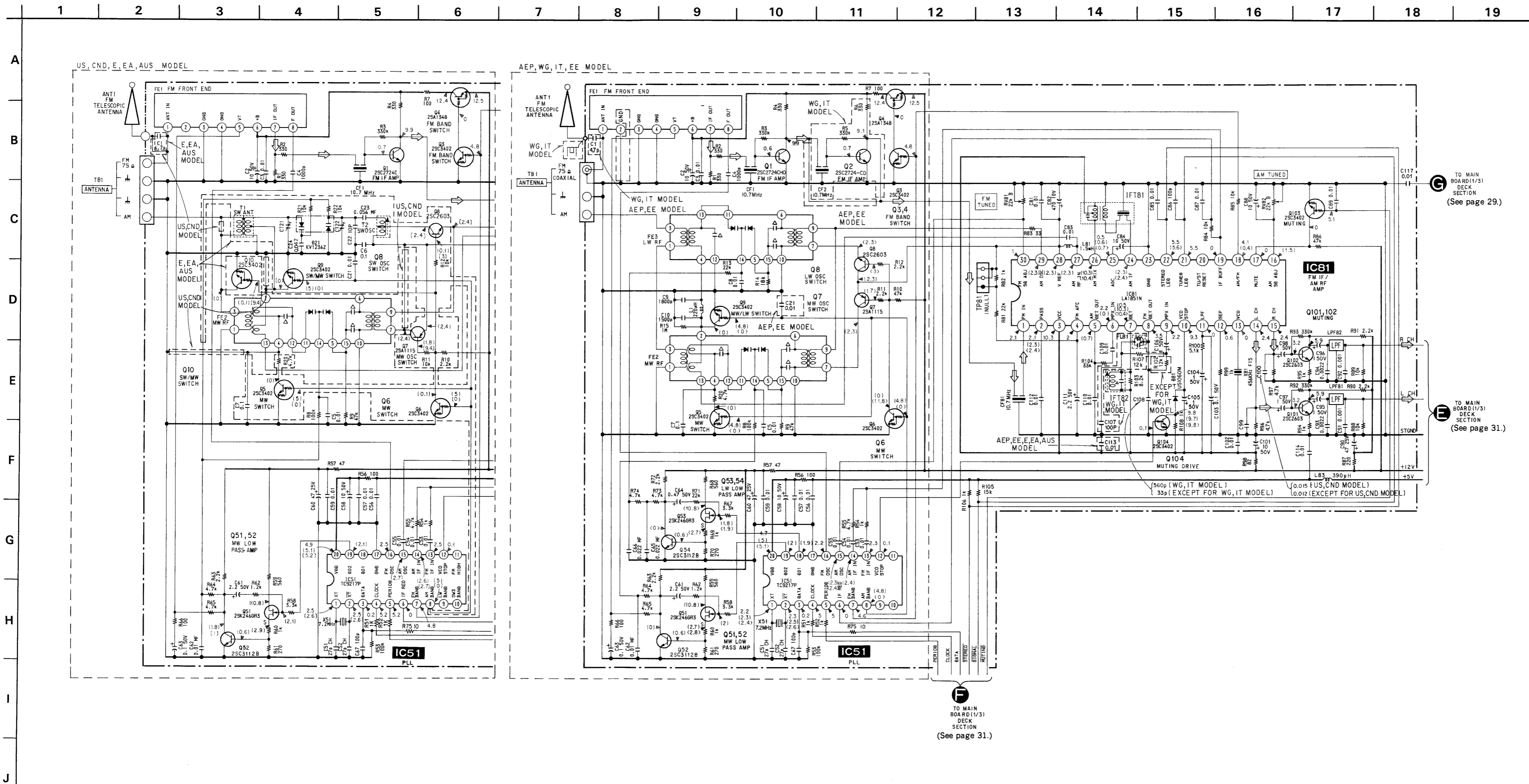
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D21(*1)	C-6	Q1(*2)	D-5	Q786	E-14
D81	F-9	Q1(*3)	D-9	Q787	E-14
D201	F-16	Q2(*4)	E-9	Q789	D-13
D205	D-15	Q3(*2)	E-6	Q790	D-13
D206	H-19	Q3(*3)	E-10	Q791	D-14
D207	H-20	Q4(*2)	E-6	Q999	H-15
D208	I-21	Q4(*3)	E-10		
D209	I-21	Q5(*1)	B-5		
D210	J-21	Q5(*3)	B-9		
D211	J-23	Q6(*1)	E-6		
D300	I-6	Q6(*3)	E-10		
D601	C-16	Q7(*1)	D-6		
D701	D-13	Q7(*3)	D-10		
D721	C-18	Q8(*1)	D-6		
D735	H-11	Q8(*3)	D-10		
D736	G-15	Q9(*1)	B-5		
D737	G-15	Q9(*3)	B-9		
D738	G-15	Q10(*1)	B-6		
D739	G-15	Q51(*2)	D-4		
D785	E-13	Q51(*3)	D-8		
D786	E-13	Q52(*2)	D-4		
D787	E-13	Q52(*3)	D-8		
D788	D-14	Q53(*3)	D-7		
D789	D-13	Q54(*3)	D-7		
D790	C-14	Q101	I-8		
D791	D-13	Q101(BD)	F-21		
D792	D-13	Q102	H-8		
D793	F-13	Q103	G-10		
		Q104	G-9		
IC51(*2)	E-4	Q201	E-15		
IC51(*3)	E-8	Q231	F-17		
IC81	F-10	Q232	E-17		
IC101(BD)	E-21	Q233	F-16		
IC102(BD)	D-21	Q234	F-17		
IC201	D-17	Q252	E-15		
IC202	I-17	Q253	E-16		
IC221	G-17	Q601	F-13		
IC222	F-18	Q603	C-16		
IC223	F-17	Q651	F-13		
IC253	F-15	Q721	B-17		
IC601	C-15	Q722	B-16		
IC602	E-13	Q723	B-18		
IC621(*3)	C-12	Q731	F-12		
IC661	C-17	Q732	E-12		
IC701	E-12	Q735	H-11		
IC702	D-12	Q736	H-11		
IC703	E-12	Q737	H-12		
IC704	C-13	Q738	H-10		
IC705	F-12	Q739	G-15		
IC706	I-10	Q740	G-15		
IC785	D-13	Q781	F-12		
IC999	H-6	Q785	D-14		

6-3. PRINTED WIRING BOARDS—Tuner/Deck/CD Section— • Refer to page 16 for Semiconductor Lead Layouts.



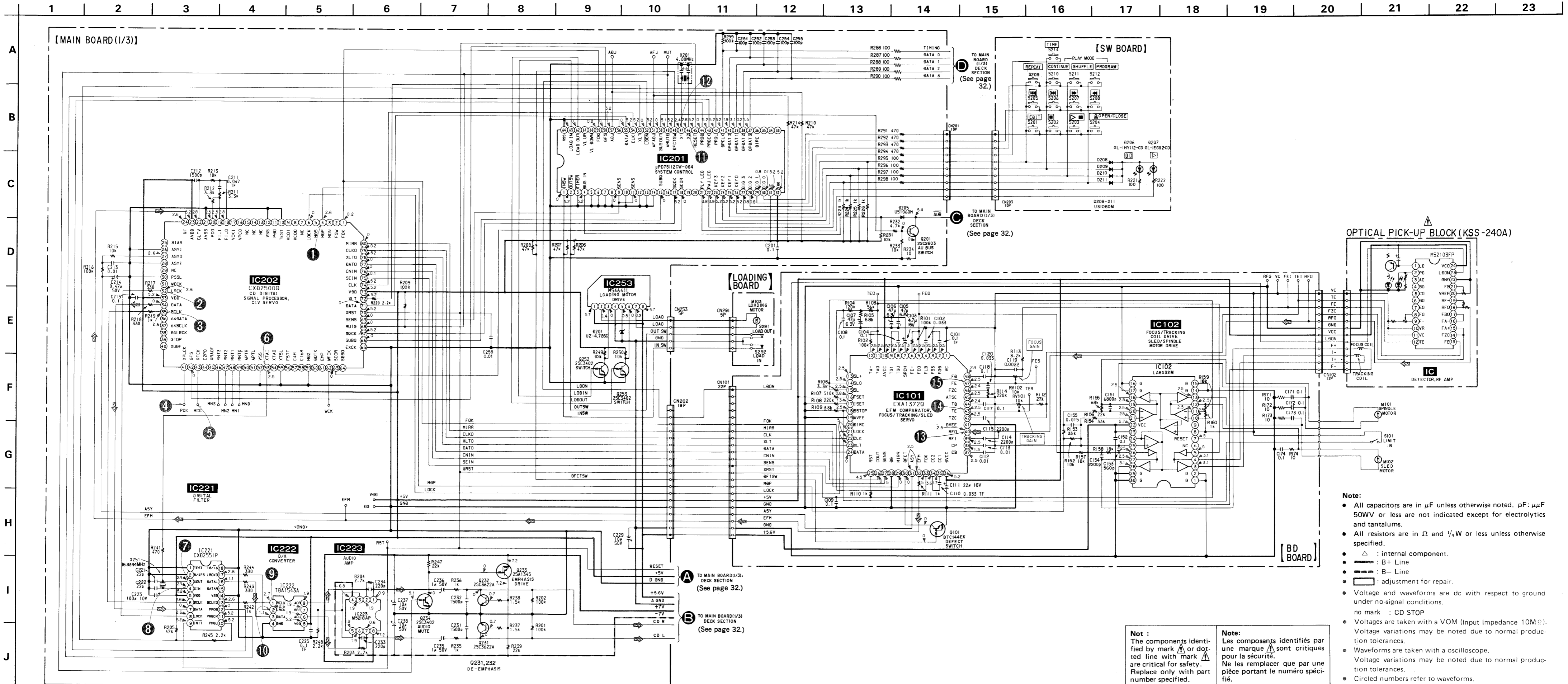
- Note:**
- : parts extracted from the component side.
 - : parts extracted from the conductor side.
 - : indicates side identified with part number.
 - : Through hole.
 - : Pattern on the side which is seen.
 - : Pattern of the rear side.
 - **CND**: Canadian model
 - **WG**: West Germany model
 - **IT**: Italian model
 - **EE**: East European model
 - **EA**: Saudi Arabia model
 - **AUS**: Australian model

6-4. SCHEMATIC DIAGRAM—Tuner Section— Refer to page 39 for IC Block Diagrams. Refer to page 42 for FE1 FM Front End.



Note:

- All capacitors are in μF unless otherwise noted. pF : μF F 50VW or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- --- : B+ Line
- --- : B- Line
- --- : adjustment for repair.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
 - no mark : FM
 - () : MW
 - [] : LW
 - [] : SW
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- **Signal path.**
 - --- : FM
- CND: Canadian model
 WG: West Germany model
 IT: Italian model
 EE: East European model
 EA: Saudi Arabia model
 AUS: Australian model

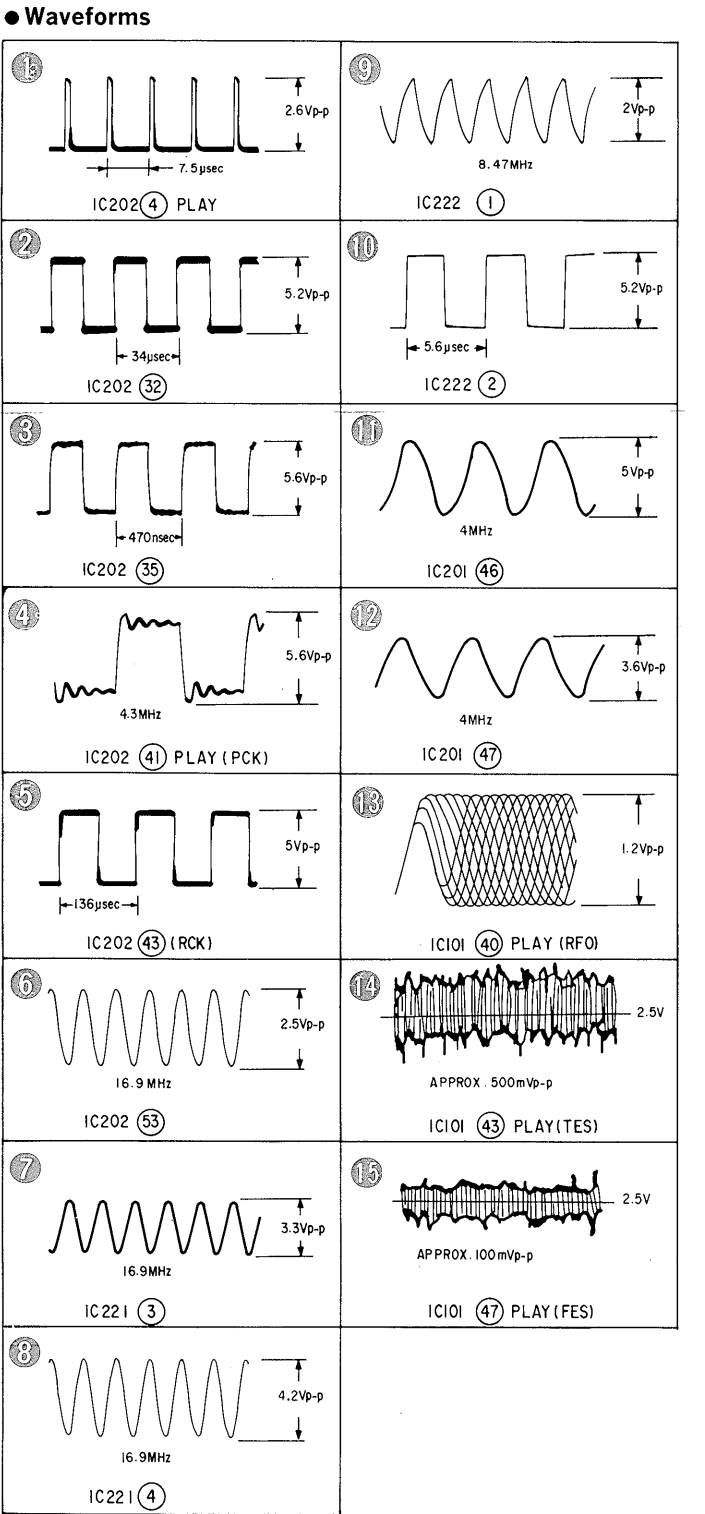
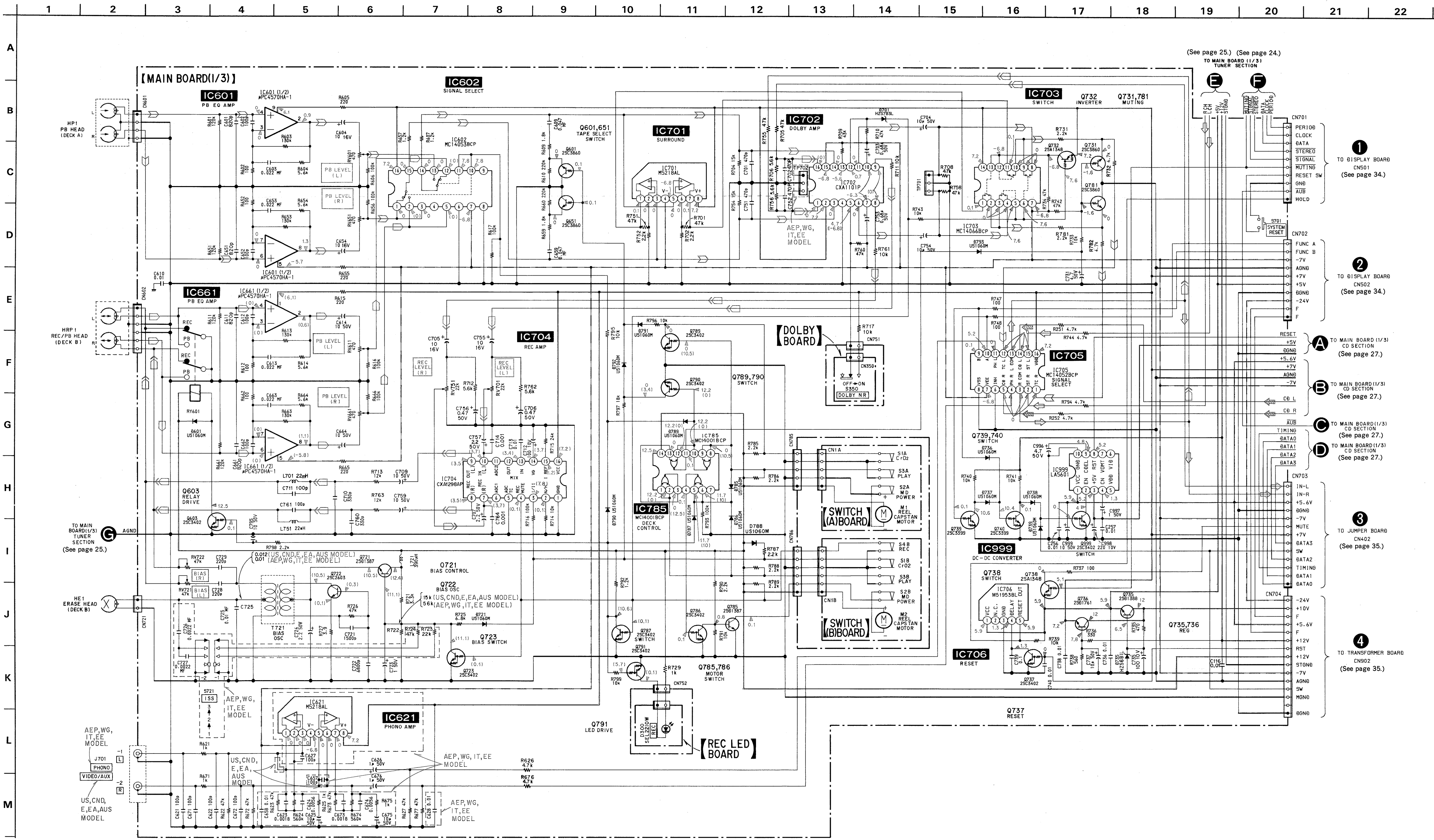


OPTICAL PICK-UP BLOCK (KSS-240A)

- 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.
 - Δ : internal component.
 - --- : B+ Line
 - --- : B- Line
 - --- : adjustment for repair.
 - Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark : CD STOP
 - Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
 - Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
 - Circled numbers refer to waveforms.
- Signal path:**
 --- : CD

Not :
 The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

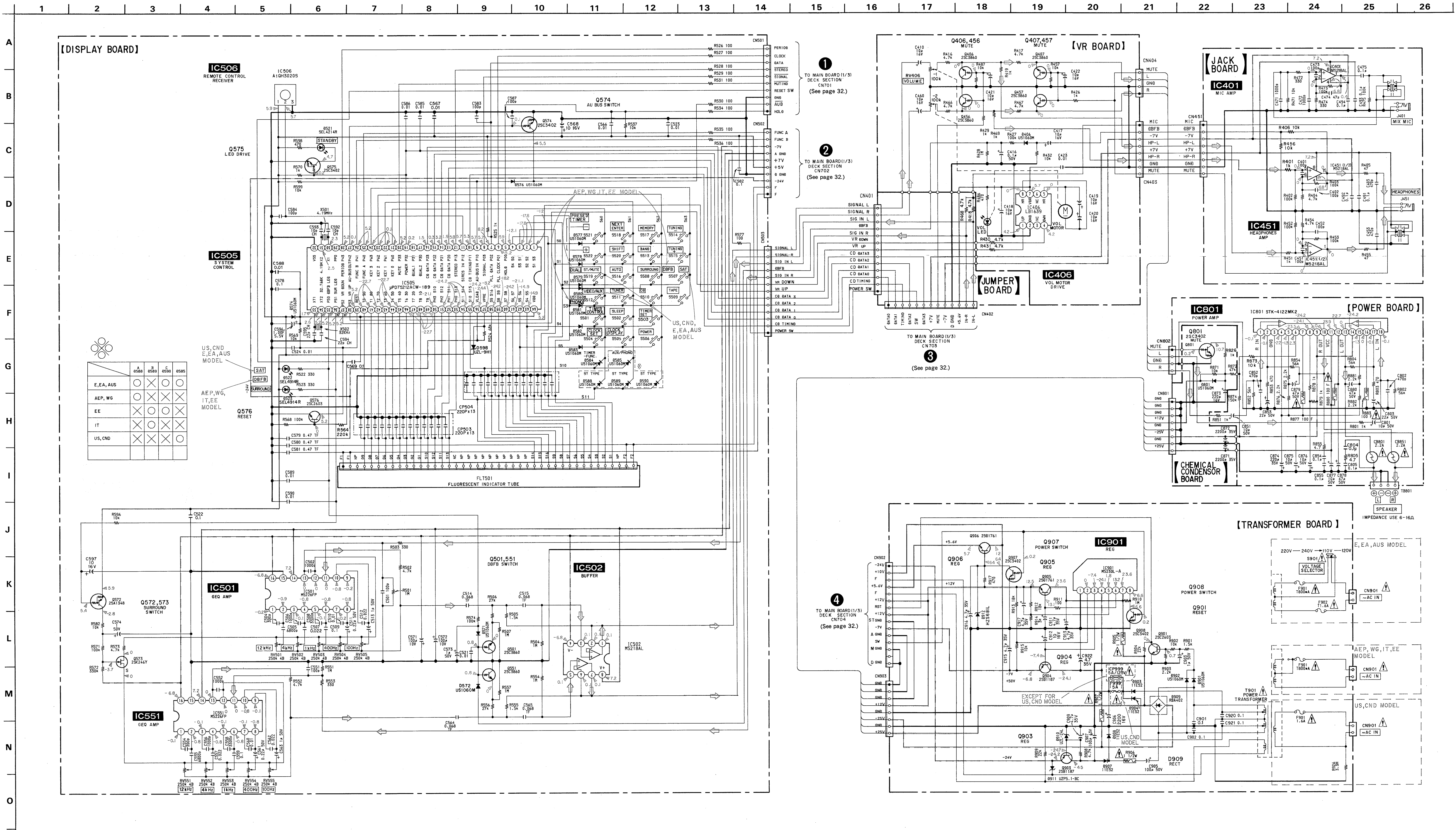
Note:
 Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



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 $\frac{1}{2}\text{W}$ or less unless otherwise specified.
- : B+ Line
- : B- Line
- : adjustment for repair.
- Voltage is dc with respect to ground under no-signal conditions.
- no mark : POWER ON
- (): PLAY (DECK A)
- < : REC
- ⊖: Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path:
 - FM
 - PB (DECK A)
 - CD
 - PB (DECK B)
 - REC

Ⓢ: Canadian model
 Ⓢ: West Germany model
 Ⓢ: Italian model
 Ⓢ: East European model
 Ⓢ: Saudi Arabia model
 Ⓢ: Australian model



	A	B	C	D
E, E.A, AUS	○	○	○	○
AEP, WG	○	○	○	○
EE	○	○	○	○
IT	○	○	○	○
US, CND	○	○	○	○

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D406	G-13	IC502	G-9
D521	F-2	IC505	H-5
D522	E-2	IC506	F-2
D523	E-2	IC551	F-5
D571	G-4	IC801	C-14
D572	G-7	IC901	C-7
D574	I-7		
D576	I-6	Q406	H-13
D577	H-7	Q407	G-14
D578	H-7	Q456	H-13
D579	H-7	Q457	G-14
D580	H-3	Q501	G-8
D581	H-3	Q551	G-8
D582	H-3	Q572	G-4
D583	H-3	Q573	F-7
D584	H-4	Q574	I-4
D585(#1)	H-3	Q575	G-2
D588(#2)	H-3	Q576	H-4
D589(#3)	H-3	Q801	C-10
D590(#4)	H-3	Q901	A-8
D598	I-7	Q903	D-6
D801	C-10	Q904	D-6
D901	B-8	Q905	D-7
D902	B-8	Q906	D-8
D903	C-4	Q907	C-8
D904	C-5	Q908	C-8
D907	C-6		
D908	C-5		
D909	B-8		
D910	C-6		
D911	D-6		
D912	C-8		
IC401	I-13		
IC406	G-12		
IC451	J-13		
IC501	F-3		

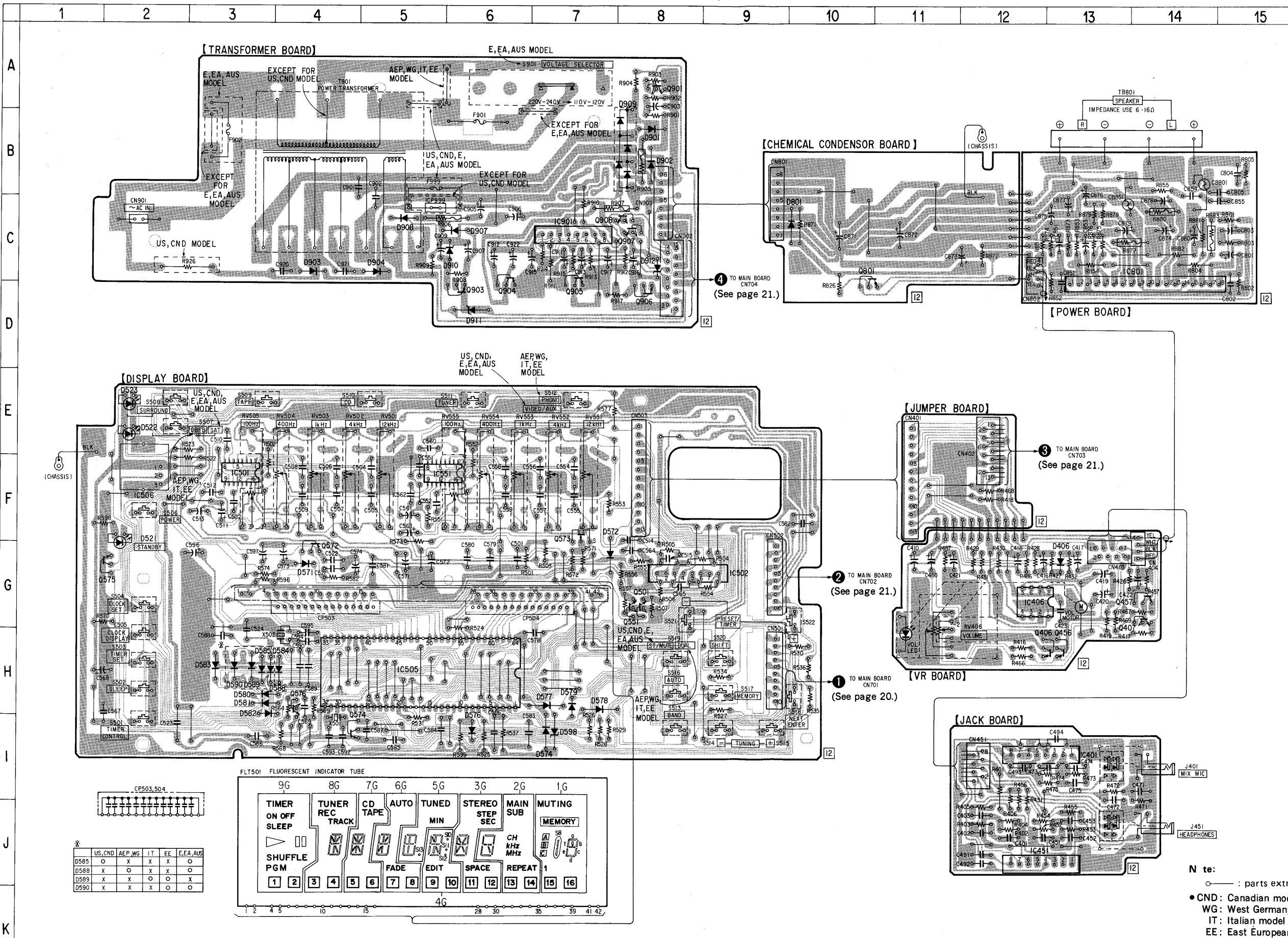
※1 : Used on US, CND, E, EA and AUS model.
 ※2 : Used on AEP, WG, E, EA and AUS model.
 ※3 : Used on IT and EE model.
 ※4 : Used on EE, E, EA and AUS model.

Note:
 • All capacitors are in μF unless otherwise noted. pF : μF F
 50WV or less are not indicated except for electrolytics and tantalums.
 • All resistors are in Ω and $\frac{1}{2}\text{W}$ or less unless otherwise specified.
 • : fusible resistor.

Note:
 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 ou pointillés sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

○ ——— : B+ Line
 ○ ——— : B- Line
 ○ Voltage is dc with respect to ground under no-signal conditions.
 no mark : POWER ON
 ○ Voltages are taken with a VOM (input impedance 10M Ω).
 Voltage variations may be noted due to normal production tolerances.
 • Signal path:
 ○ FM
 ○ CND: Canadian model
 WG: West Germany model
 IT: Italian model
 EE: East European model
 EA: Saudi Arabia model
 AUS: Australian model

6-7. PRINTED WIRING BOARDS—Power/Amplifier/Display Section— Refer to page 16 for Semiconductor Lead Layouts.

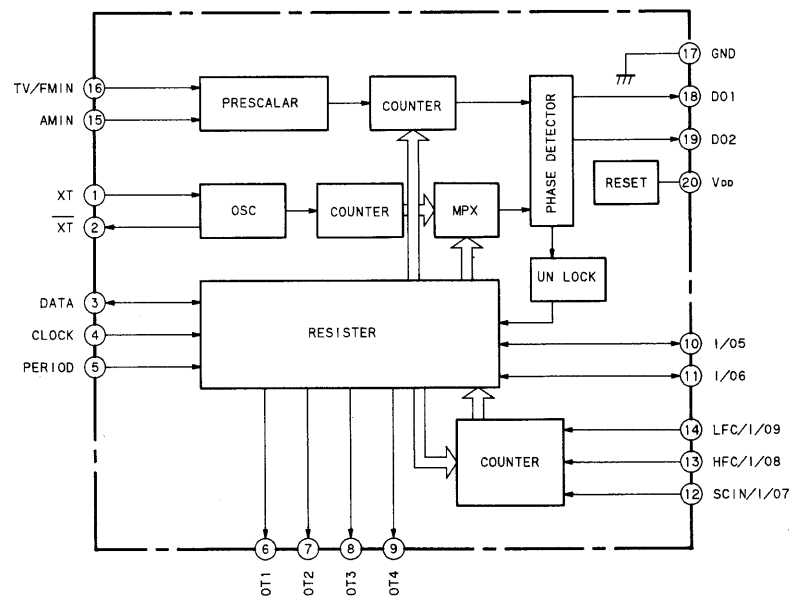


X	US, CND	AEP, WG	IT, EE	EA, EA, AUS
D585	○	X	X	○
D588	X	○	X	X
D589	X	X	○	X
D590	X	X	X	○

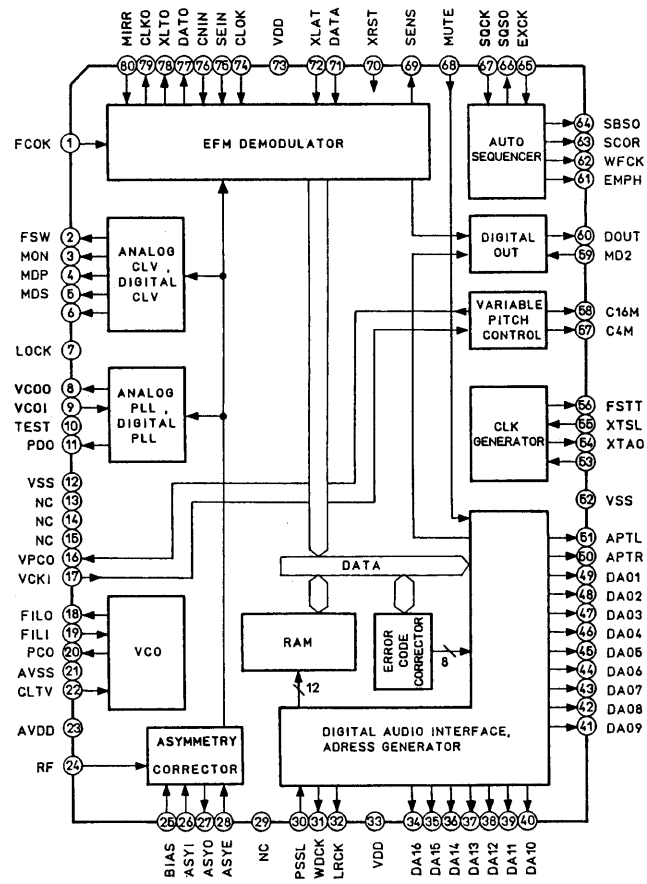
N te:
 ○ : parts extracted from the component side.
 ● CND: Canadian model
 ● WG: West Germany model
 ● IT: Italian model
 ● EE: East European model
 ● EA: Saudi Arabia model
 ● AUS: Australian model

IC Block Diagrams

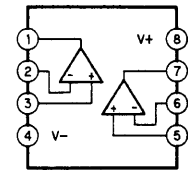
•IC51 TC9217P



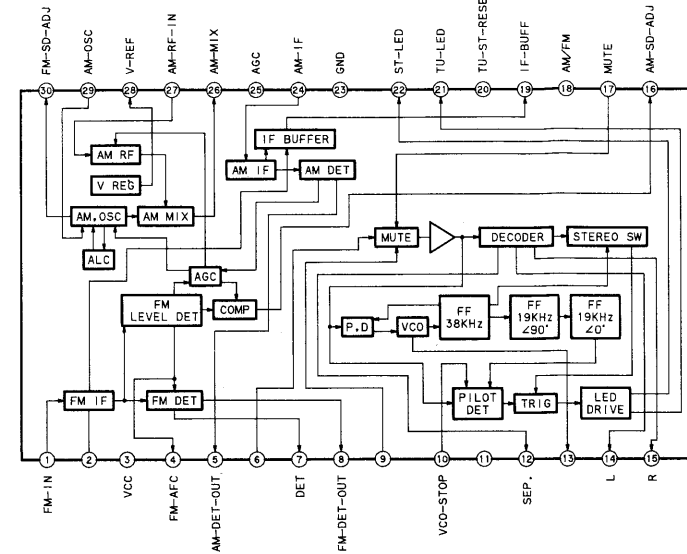
•IC202 CXD2500Q



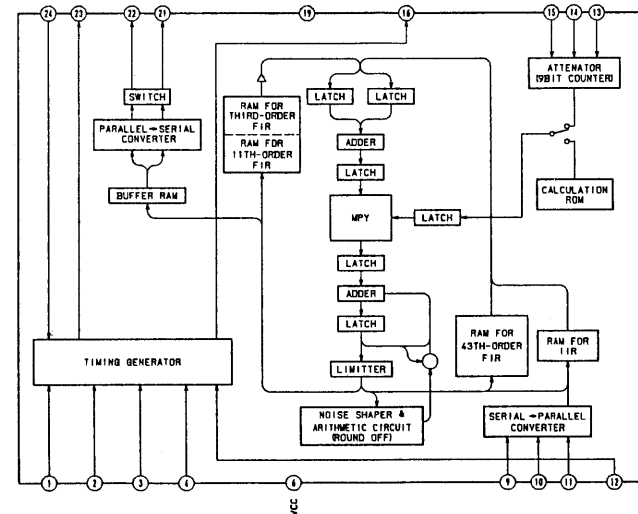
IC223 M5218AP



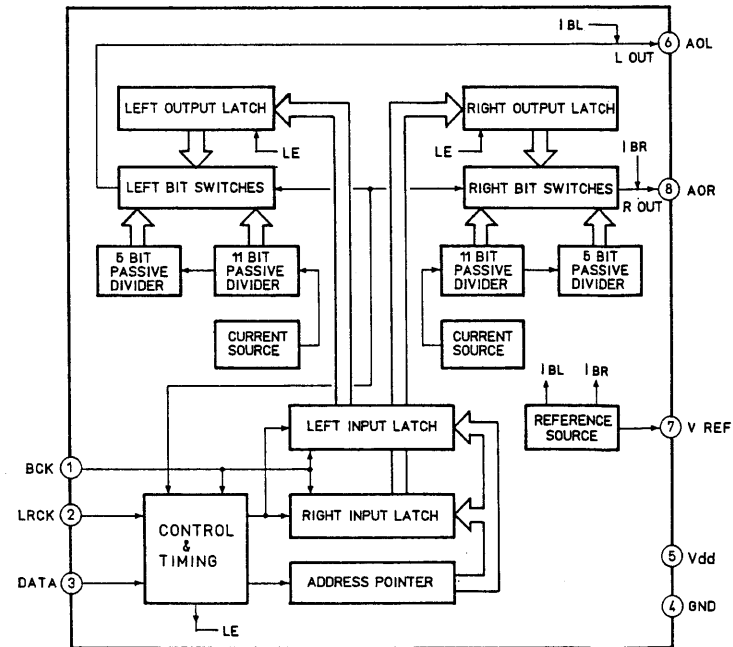
•IC81 LA1851N



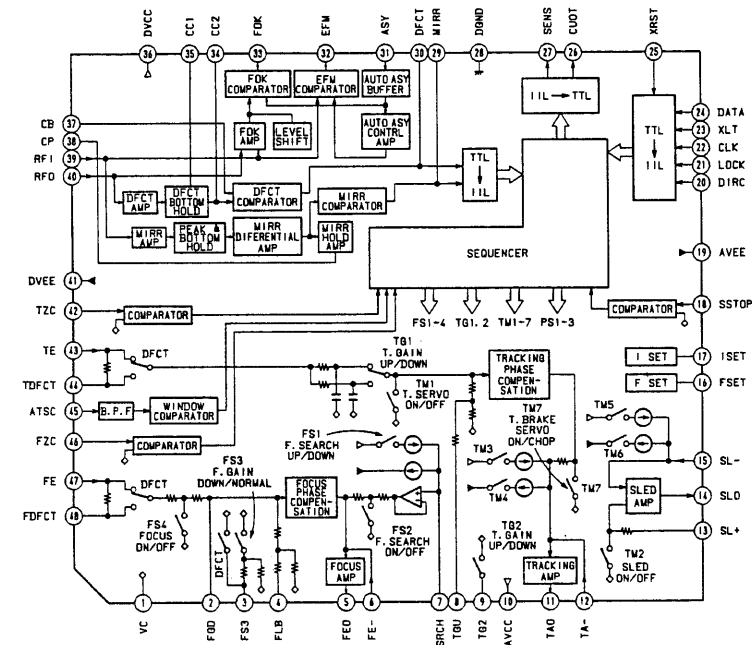
•IC221 CXD2551P



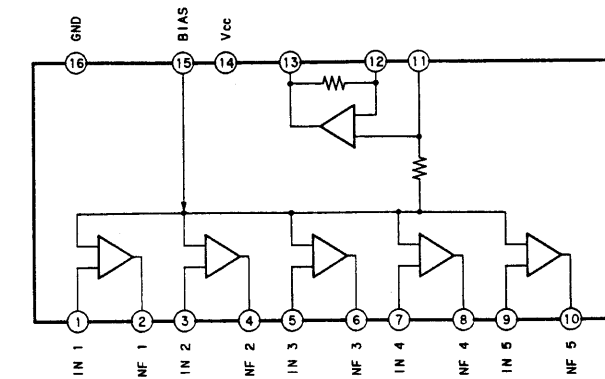
•IC222 TDA1543A



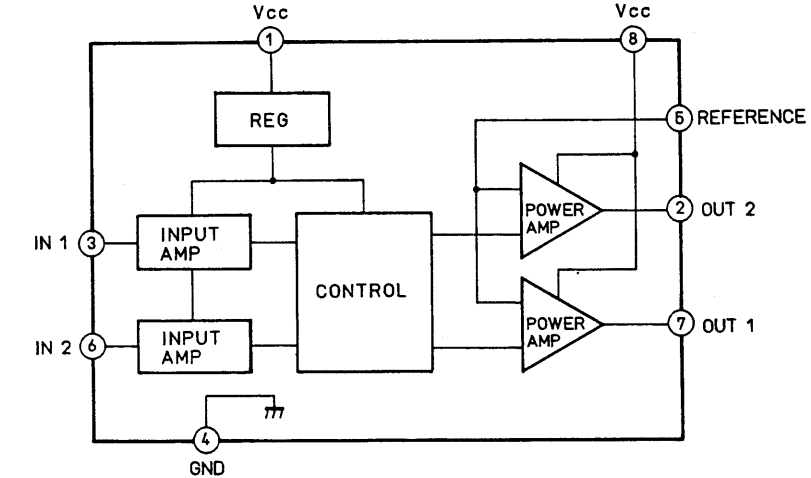
•IC101 CXA1372Q



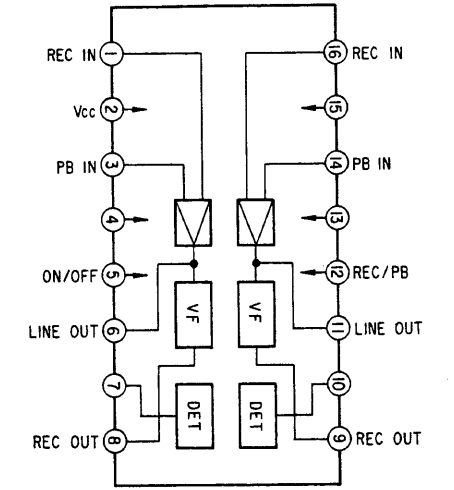
•IC501, IC551 M5226FP



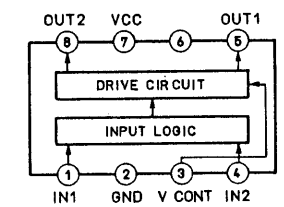
•IC253 M54641L



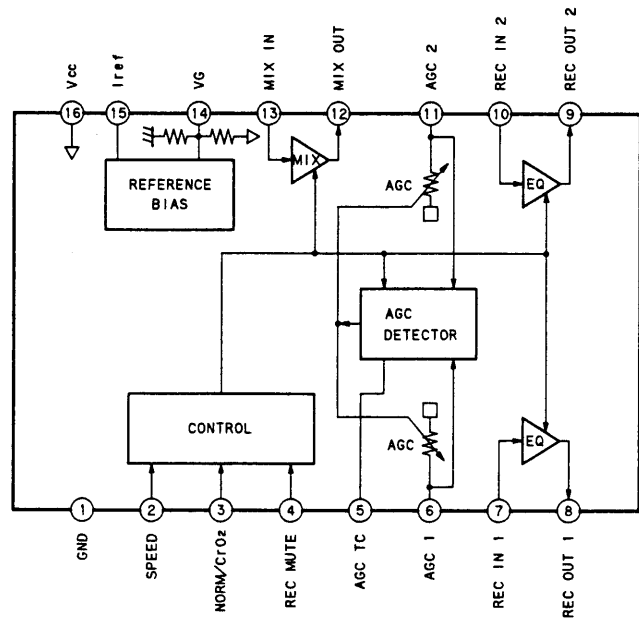
•IC702 CXA1101P



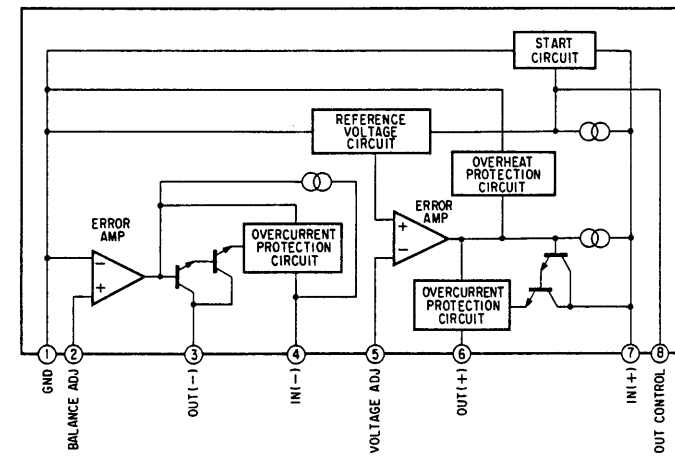
•IC406 LB1639



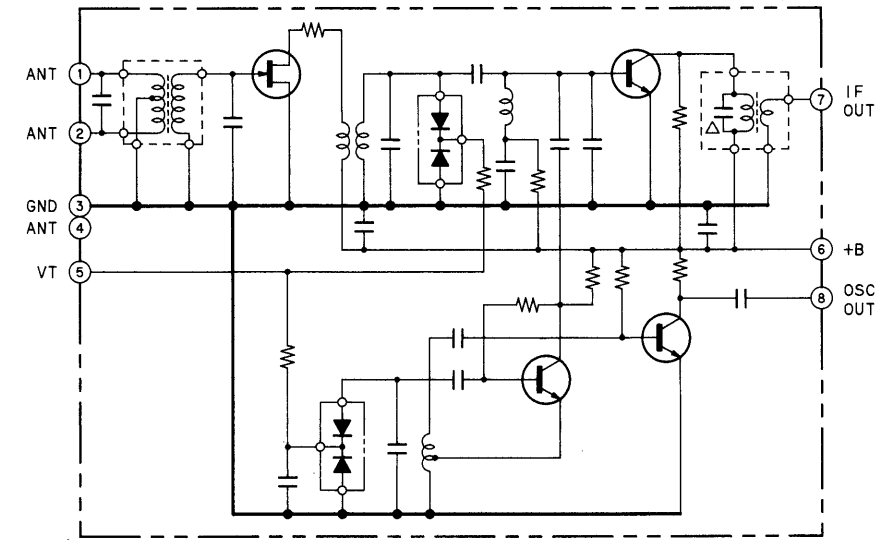
• IC704 CXA1298AP



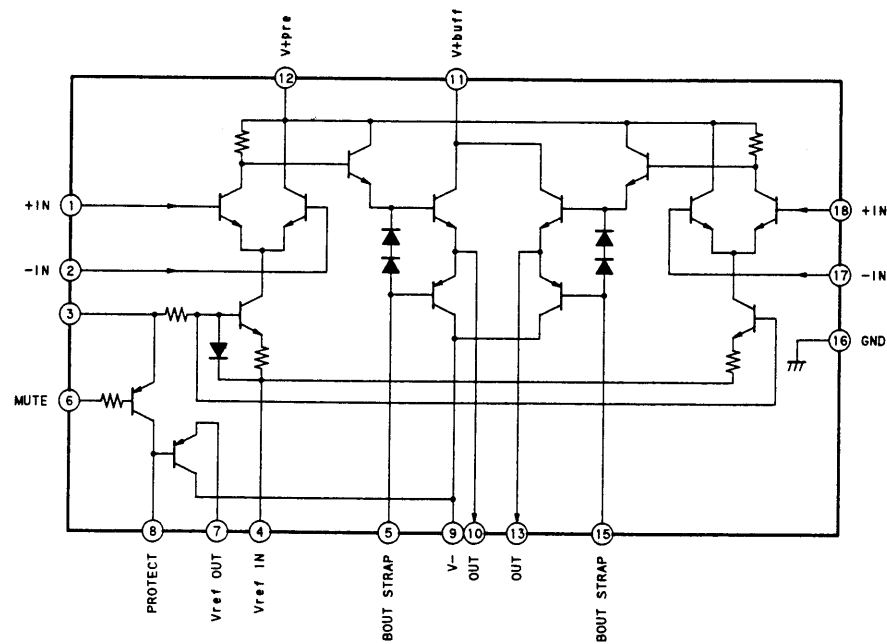
• IC901 M5230L



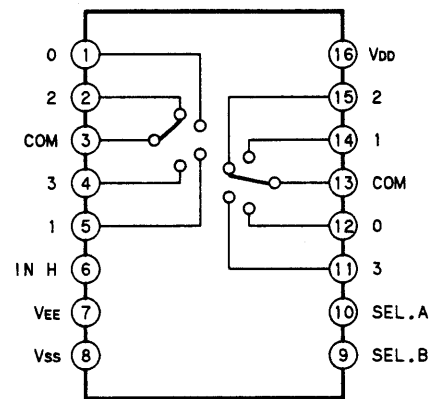
• FE1 FM Front End (US, CND, AEP, EE, E,EA, AUS)



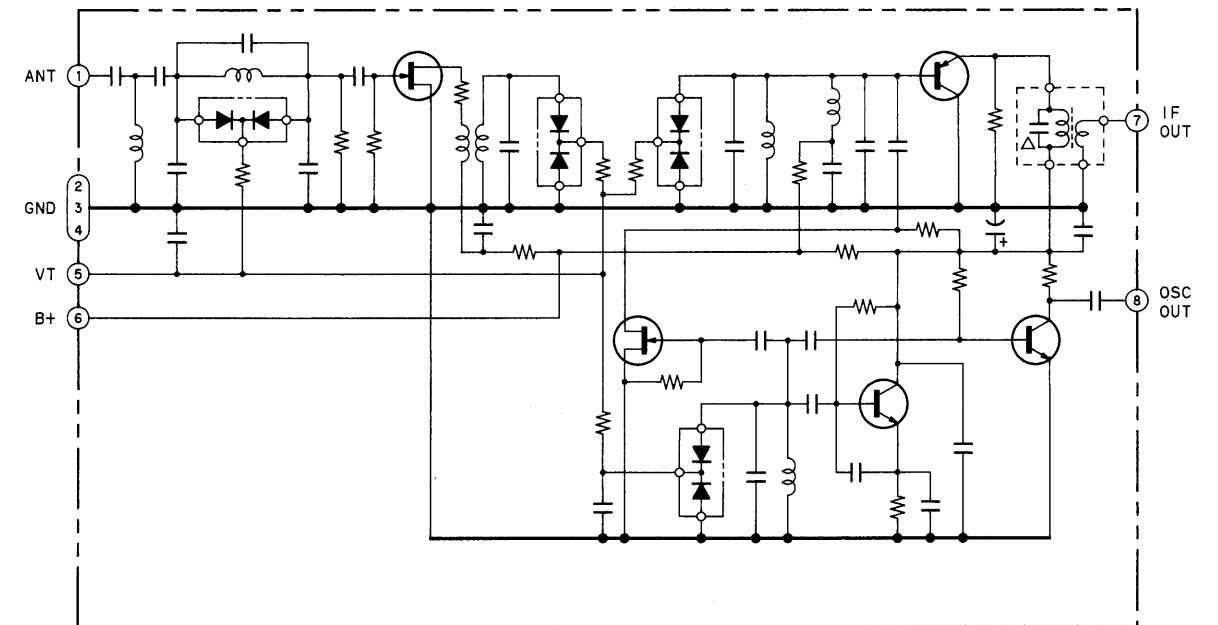
IC801 STK-4122MK2



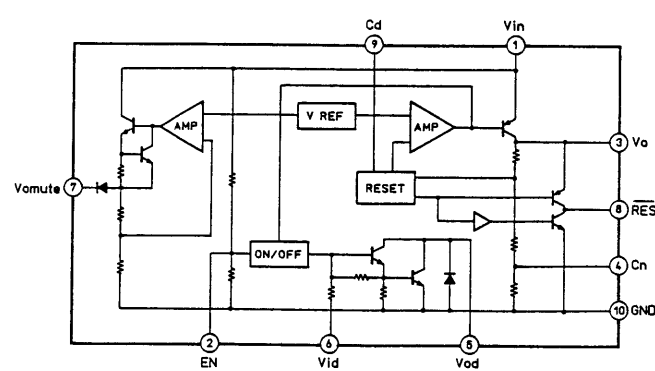
• IC705 MC14052BCP



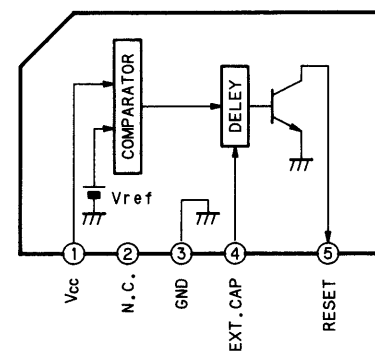
• FE1 FM Front End (WG, IT)



• IC999 LA5601



• IC706 M51953BL



6-9. PIN FUNCTIONS

IC505 Display Control (μ PD75212)

Pin No.	Pin Name	I/O	ACTIVE	Description	Hold
1	S3	O	H	Segment, keyscan output terminals	Low
2	S2				
3	S1				
4	S0				
5	INT4	I	L	HOLD input	input
6	SCK	O	—	CLOCK (TC9217P T-BUS)	
7	SO	I/O	—	DATA (TC9217P T-BUS)	
8	PO3	I	L	SIGNAL input	
9	INT0	I	L	AUDIO-BUS input	input
10	INT1	I	Down	CD display data, timng	
11	P12	I	L	Remote control input	
12	P13	I	L	STEREO input	
13	P20	I	—	CD display data	input
14	P21				
15	P22				
16	P23				
17	P30	I	L	DUAL 2 input	input
18	P31	I	L	DUAL 1 input	
19	P32	O	L	POWER port	
20	P33	O	L	MUTING	Low
21	P60	I	H	Keyscan input	input
22	P61				
23	P62				
24	P63				
25	P40	O	—	FUNCTION A output	Low
26	P41	O	—	FUNCTION B output	
27	P42	O	H	AUDIO-BUS output	
28	P43	O	L	PERIOD (TC9217P T-BUS)	
29	PP0	—	—	Not used (open)	—
30	X1	—	—	Main system clock 4.19MHz	—
31	X2				
32	V _{ss}	—	—	GND terminal (0V)	—
33	XT1	—	—	Sub system clock 32.768kHz	—
34	XT2				
35	P50	O	L	DBFB	Low
36	P51	O	L	SURROUND	
37	P52	O	L	Volume DOWN	
38	P53	O	L	Volume UP	
39	RESET	I	L	System reset input terminal	—
40	T0	O	H	Digit output	Low
41	T1				

Pin No.	Pin Name	I/O	ACTIVE	Description	Hold
42	T2	O	H	Digit output	Low
43	T3				
44	T4				
45	T5				
46	T6				
47	T7				
48	T8				
49	T9	O	—	Not used (open)	Low
50	S15	O	H	Segment output	Low
51	S14				
52	S13				
53	S12				
54	S11	O	H	Segment output, specification distinction diode output	Low
55	S10				
56	V _{LOAD}	—	—	Pull-down resistor connect terminal of FIP driver	—
57	V _{PRE}	—	—	Power supply terminal of FIP driver output buffer	—
58	S9	O	H	Segment output	Low
59	S8				
60	S7				
61	S6				
62	S5	O	H	Segment, keyscan output terminal	Low
63	S4				
64	V _{DD}	—	—	Power supply terminal (5V)	—

[KEY, DIODE MATRIX]

	Key						Diode	
	S5	S4	S3	S2	S1	S0	S10	S11
P60	CLOCK	TIMER CONTROL	VIDEO	DUAL	STATION UP	STATION DOWN	TIMER FUNCTION	A
P61	DISPLAY	SLEEP	TUNER	AUTO/MANUAL	SHIFT	ENTER	VIDEO/PHONO	B
P62	POWER	TIMER SET	CD	SURROUND	BAND	MERORY	IF+50kHz	C
P63	—	—	TAPE	DBFB	TUNING UP	TUNING DOWN	IF-50kHz	—

- 1) Pressing the key twice is not allowed. (First pressing is preceded)
- 2) The remote control precedes the input with the key.
- 3) Input the diode in resetting and in releasing HOLD.

● IC201 CD Controller (μ PD75112CW)

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{INSW}}$	I	Disk tray clamp-end input
2	$\overline{\text{OUTSW}}$	I	Disk tray open-end input
3	(TIMER)	I	Timer start input
4	BSIN	I	Audio bus input
5	Not Used	I	GND
6	Not Used	I	GND
7	Not Used	I	GND
8	Not Used	I	GND
9	SENS	I	SENS input, and the state input of every kind from CXD2500Q and CXA1372Q
10	Not Used	I	GND
11	SENS	I	SENS input, and the state input of every kind from CXD2500Q and CXA1372Q
12	Not Used	I	GND
13	Not Used	I	GND
14	Not Used	I	GND
15	SUBQ	I	Q data serial input from CXD2500Q
16	Not Used	O	OPEN
17	SQCLK	O	Sub-code Q data read-in clock output for CXD2500Q
18	SCOR	I	Sub-code synchro S0 and S1 detect input
19	Not Used	O	OPEN
20	Not Used	O	OPEN
21	PLAYL	O	Play LED ON/OFF output
22	PAUSL	O	Pause LED ON/OFF output
23	KEY3	I	Key data input
24	KEY2	I	Key data input
25	KEY1	I	Key data input
26	KEY0	I	Key data input
27	DG3	O	Key-scan digit output
28	DG2	O	Key-scan digit output
29	DG1	O	Key-scan digit output
30	DG0	O	Key-scan digit output
31	Not Used	I	+5V
32	VDD	I	+5V
33	Not Used	O	OPEN
34	Not Used	O	OPEN
35	Not Used	O	OPEN
36	Not Used	O	On time 1 track jump, tracking drive is inversed output for CXA1372Q
37	DPDAT3	O	Display data output for tuner amp micon
38	DPDAT2	O	Display data output for tuner amp micon
39	DPDAT1	O	Display data output for tuner amp micon
40	DPDAT0	O	Display data output for tuner amp micon
41	DPCLK	O	Display data transmission clock output for tuner amp micon
42	PRGL	O	Serial data latch pulse output for digital filter CXD2551P
43	PRGCK	O	Serial clock output for digital filter CXD2551P
44	PRGD	O	Serial clock output for digital filter CXD2551P

Pin No.	Pin Name	I/O	Description
45	RESET	I	System reset input terminal (LOW ACTIVE)
46	X2	I	System clock input 4.19MHz
47	X1	I	System clock input 4.19MHz
48	DFCTSW	O	From focus in till spindle kick is ON except then is OFF.
49	AMUTE	O	Muting ON/OFF output
50	BSOUT	O	Audio bus output
51	AFADJ	I	Test mode input, and on time POWER "L" is test move ment of every kind
52	LDON	O	Laser diode ON/OFF output
53	XLT	O	Serial data latch pulse output for CXD2500Q
54	CLK	O	Serial clock output for CXD2500Q
55	DATA	O	Serial data output for CXD2500Q
56	Not Used	I	GND
57	ADJ	I	Test mode input, "L" is GFS no check.
58	GFS	I	GFS OK/NO Good input
59	FOK	I	Focus OK NO Good input
60	Not Used	O	OPEN
61	Not Used	O	OPEN
62	LODOUT	O	Disc tray loading-out output
63	LODIN	O	Disc tray loading-in output
64	VSS	I	GND

SECTION 7 EXPLODED VIEWS

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

- The construction parts of an assembled part are indicated with a collation number in the remark column.

Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

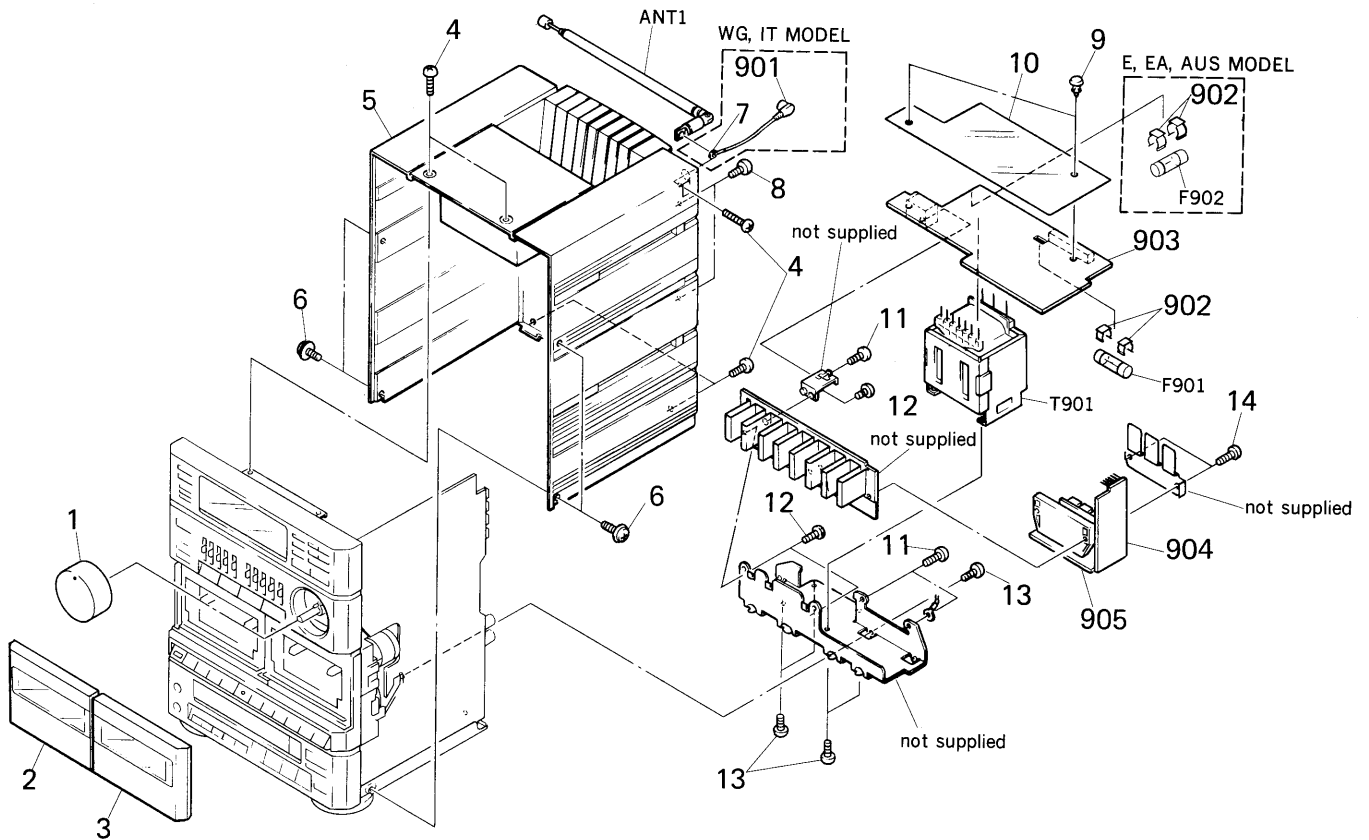
Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

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

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

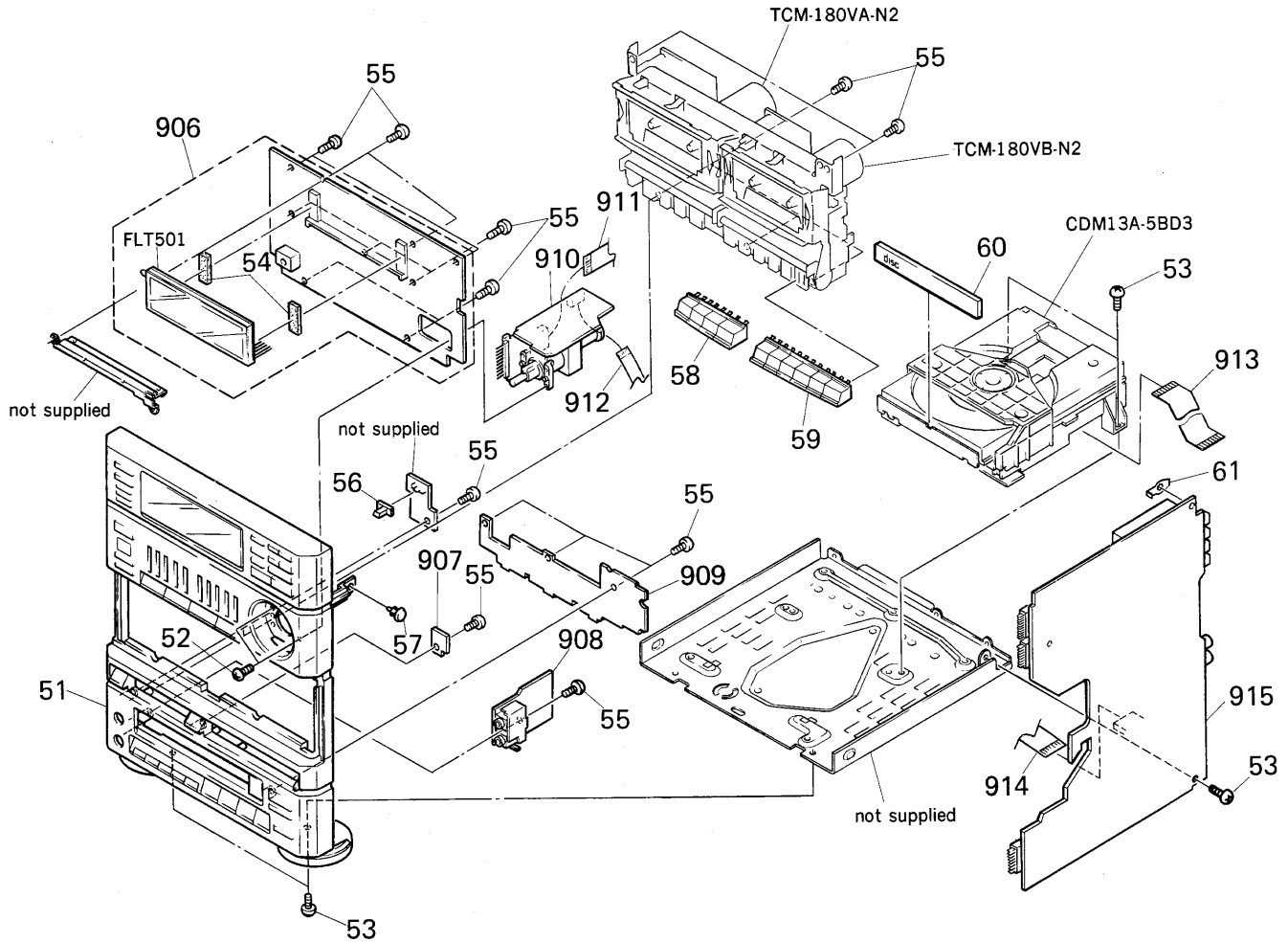
Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. CASE, POWER SUPPLY BLOCK



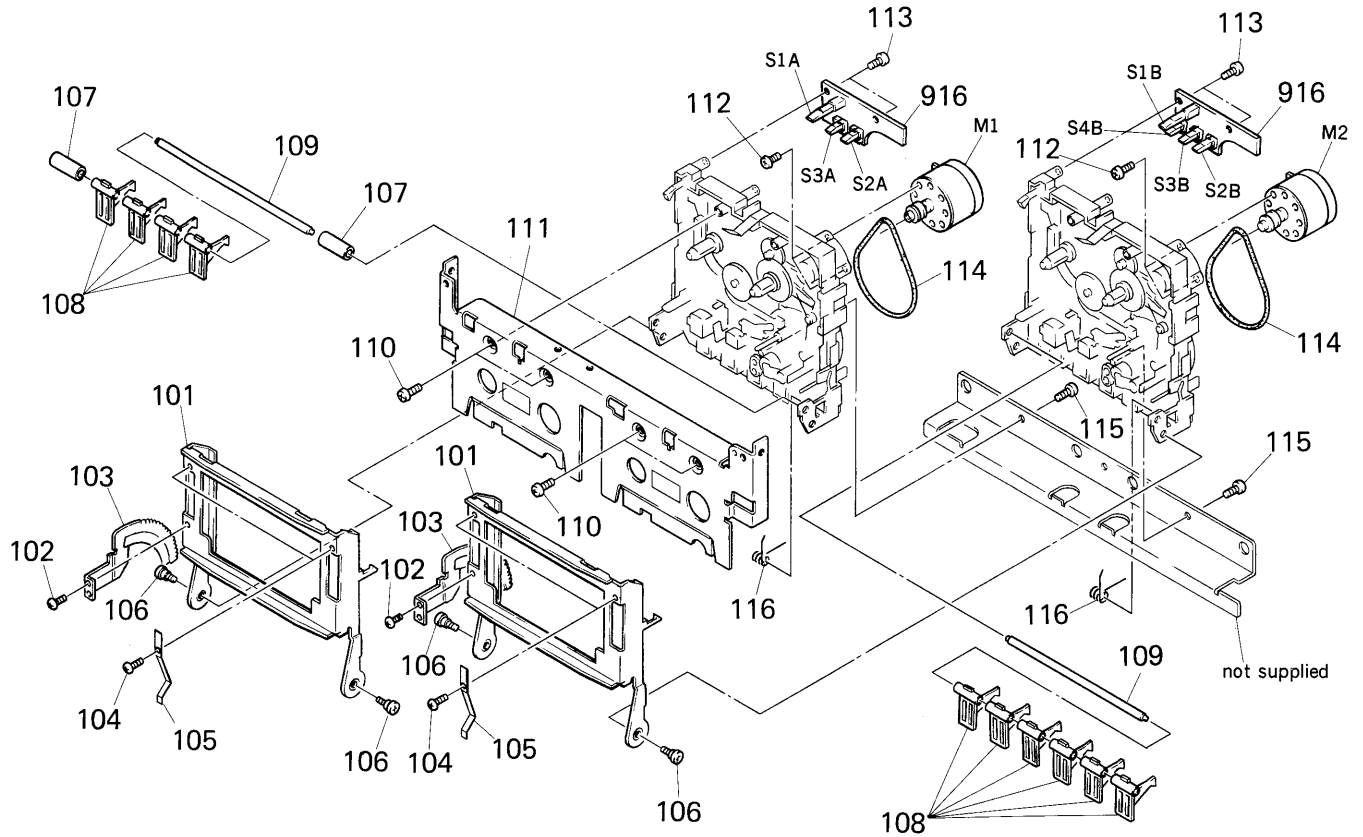
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	X-4936-803-1	KNOB (VOLUME) ASSY		901	*1-562-908-11	(WG,IT)...CONNECTOR, FEMALE (NO SHIELD)	
2	X-4936-816-1	LID (A) ASSY, CASSETTE		902	1-533-213-31	HOLDER, FUSE	
3	X-4936-817-1	LID (B) ASSY, CASSETTE		903	*1-634-853-11	PC BOARD, TRANSFORMER	
4	7-682-549-04	SCREW +BVTT 3X10 (S)		904	*1-634-850-11	PC BOARD, CHEMICAL CONDENSOR	
5	X-4936-802-1	(EXCEPT E,EA,AUS)...CASE ASSY		905	*1-634-849-11	PC BOARD, POWER	
	X-4936-804-1	(E,EA,AUS).....CASE ASSY		ANT1	1-501-270-00	ANTENNA, TELESCOPIC	
6	3-704-366-01	SCREW (CASE) (M3X8)		F901	1-532-215-00	(EXCEPT US,Canadian)...FUSE, TIME-LAG	
7	7-523-508-11	(WG,IT)...EARTH, LUG 3		F901	1-532-555-00	(US,Canadian)...FUSE, GLASS TUBE (1.6A)	
8	7-685-648-19	SCREW +BVTP 3X12		F902	1-532-259-00	(E,EA,AUS).....FUSE, TIME-LAG (T 1.6A)	
9	4-812-134-31	RIVET NYLON, 3.5		T901	1-450-055-11	(E,EA,AUS).....TRANSFORMER, POWER	
10	*4-936-816-01	COVER (INSULATING)		T901	1-450-056-11	(AEP,WG,IT,EE)...TRANSFORMER, POWER	
11	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		T901	1-450-057-11	(US,Canadian)....TRANSFORMER, POWER	
12	7-685-645-71	SCREW +BVTP 3X6					
13	7-682-547-04	SCREW +BVTT 3X6 (S)					
14	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3					

7-2. FRONT PANEL, MAIN BOARD BLOCK



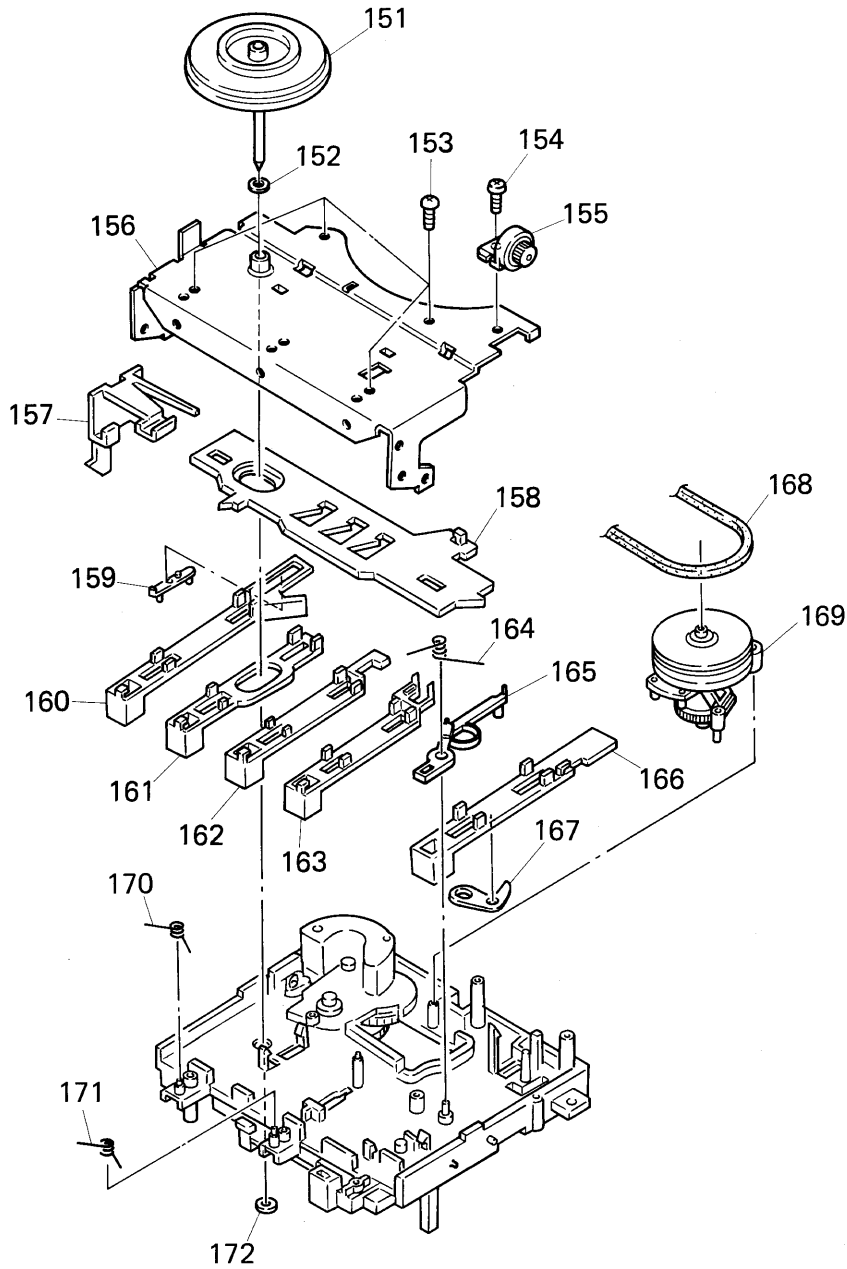
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	X-4936-818-1	(US,Canadian,E,EA,AUS) ...PANEL ASSY, FRONT		907	*1-634-856-11	PC BOARD, REC LED	
	X-4936-822-1	(AEP,WG,IT,EE)...PANEL ASSY, FRONT		908	*1-634-857-11	PC BOARD, JACK	
52	7-685-872-01	SCREW +BVTT 3X8		909	*1-634-852-11	PC BOARD, SW	
53	7-682-547-04	SCREW +BVTT 3X6 (S)		910	*1-634-854-11	PC BOARD, VR	
54	*4-932-810-01	CUSHION (FL)		911	1-575-672-11	WIRE, FLAT TYPE (13 CORE)	
55	4-928-635-01	(EXCEPT AUS)...SCREW, +BV (2.6X8)TAPPING		912	1-575-674-11	WIRE, FLAT TYPE (8 CORE)	
	7-685-534-11	(AUS).....SCREW +BTP 2.6X8		913	1-535-832-11	JUMPER, FILM (WITH TERMINAL)	
56	4-936-868-01	KNOB (DOLBY)		914	1-575-673-11	WIRE, FLAT TYPE (15 CORE)	
57	4-812-134-31	RIVET NYLON, 3.5		915	*A-4334-271-A	(E,EA,AUS).....MOUNTED PCB, MAIN	
58	4-936-872-01	BUTTON (A)			*A-4334-279-A	(EE).....MOUNTED PCB, MAIN	
59	4-936-873-04	BUTTON (B)			*A-4334-282-A	(AEP).....MOUNTED PCB, MAIN	
60	4-936-833-01	PANEL, LOADING			*A-4334-286-A	(US,Canadian)...MOUNTED PCB, MAIN	
61	*4-925-530-01	PLATE, GROUND			*A-4334-292-A	(WG,IT).....MOUNTED PCB, MAIN	
906	*A-4334-274-A	(E,EA,AUS).....MOUNTED PCB, DISPLAY		917	1-634-461-11	PC BOARD, LOADING	
	*A-4334-291-A	(EE).....MOUNTED PCB, DISPLAY		FLT501	1-519-577-11	INDICATOR TUBE, FLUORESCENT	
	*A-4334-284-A	(AEP).....MOUNTED PCB, DISPLAY					
	*A-4334-287-A	(JS,Canadian)...MOUNTED PCB, DISPLAY					
	*A-4334-294-A	(WG).....MOUNTED PCB, DISPLAY					
	*A-4334-296-A	(IT).....MOUNTED PCB, DISPLAY					

7-3. MD CHASSIS BLOCK



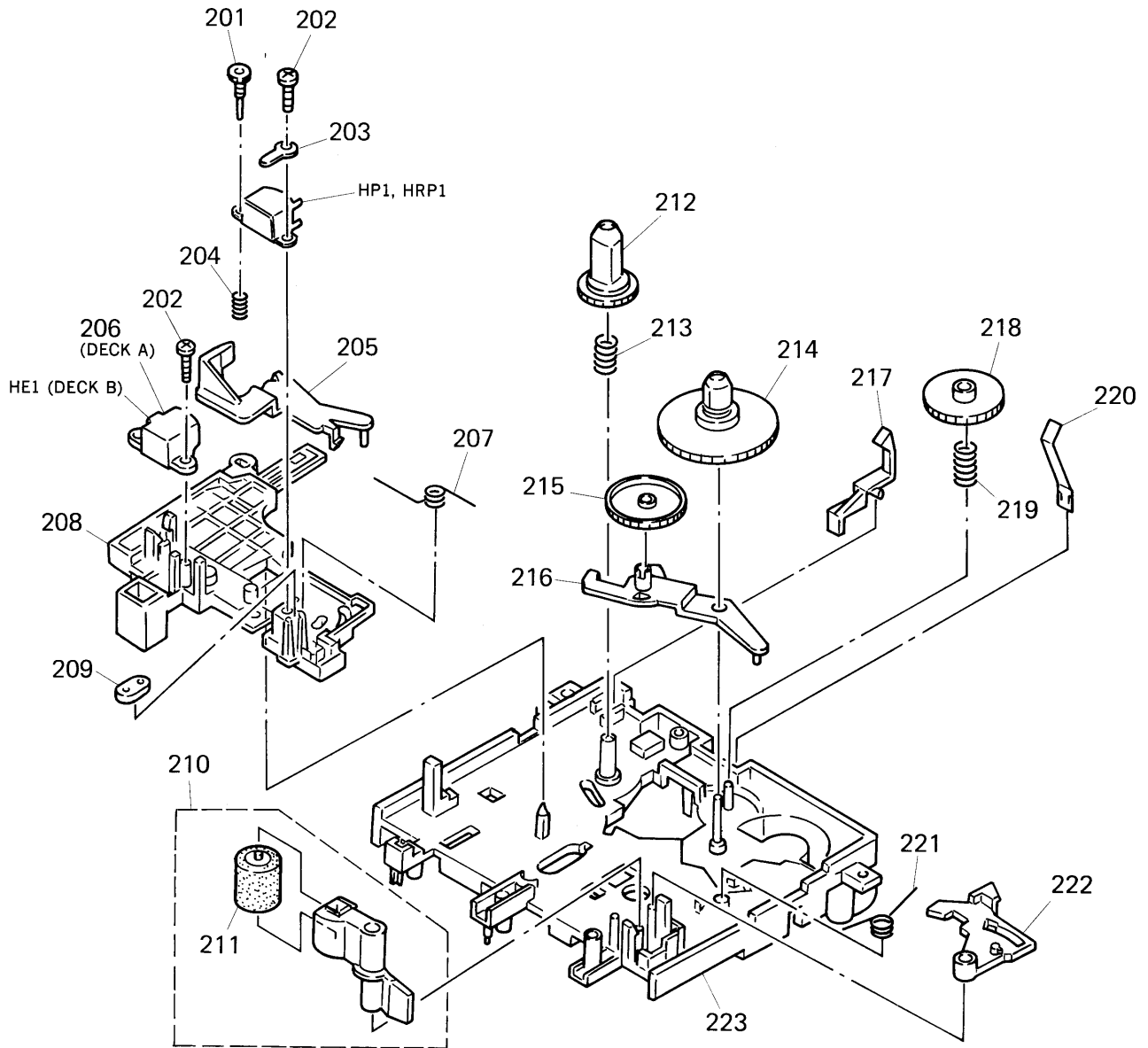
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	3-358-282-01	HOLDER (FH), CASSETTE		116	3-358-278-01	SPRING (LOADING FH), TORSION	
102	7-621-255-25	SCREW +PTT 2X4 (S)		916	*1-635-160-11	(DECK A)...PC BOARD, SWITCH (A)	
103	*3-358-276-01	RACK, GEAR			*1-635-160-11	(DECK B)...PC BOARD, SWITCH (B)	
104	7-621-255-10	SCREW +PTT 2X3 (S)		M1	X-3358-211-1	(DECK A)...MOTOR (A) ASSY	
105	3-358-280-01	SPRING (CASSETTE HOLDER FH)		M2	X-3358-211-1	(DECK B)...MOTOR (A) ASSY	
106	3-358-277-01	SCREW, STEP		S1A	1-572-335-11	(DECK A)...SWITCH, LEAF (CrO2)	
107	*3-358-216-01	(DECK A)...COLLAR		S1B	1-572-335-11	(DECK B)...SWITCH, LEAF (CrO2)	
108	3-358-268-01	LEVER (BUTTON BASE B)		S2A	1-571-736-11	(DECK A)...SWITCH, LEAF (MD POWER)	
109	3-358-242-01	SHAFT (BUTTON SHAFT)		S2B	1-571-736-11	(DECK B)...SWITCH, LEAF (MD POWER)	
110	7-635-534-19	SCREW +BTP 2.6X8		S3A	1-571-736-11	(DECK A)...SWITCH, LEAF (PLAY)	
111	*4-936-874-01	JOINT (UPPER)		S3B	1-571-736-11	(DECK B)...SWITCH, LEAF (PLAY)	
112	7-621-775-20	SCREW +B 2.6X5		S4B	1-571-736-11	(DECK B)...SWITCH, LEAF (REC)	
113	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S					
114	3-358-230-01	BELT (A1)					
115	4-929-635-01	(EXCEPT AUS)...SCREW, +BV(2.6X8) TAPPING					
	7-685-534-11	(AUS).....SCREW +BTP 2.6X8					

7-4. MECHANISM DECK BLOCK (1)



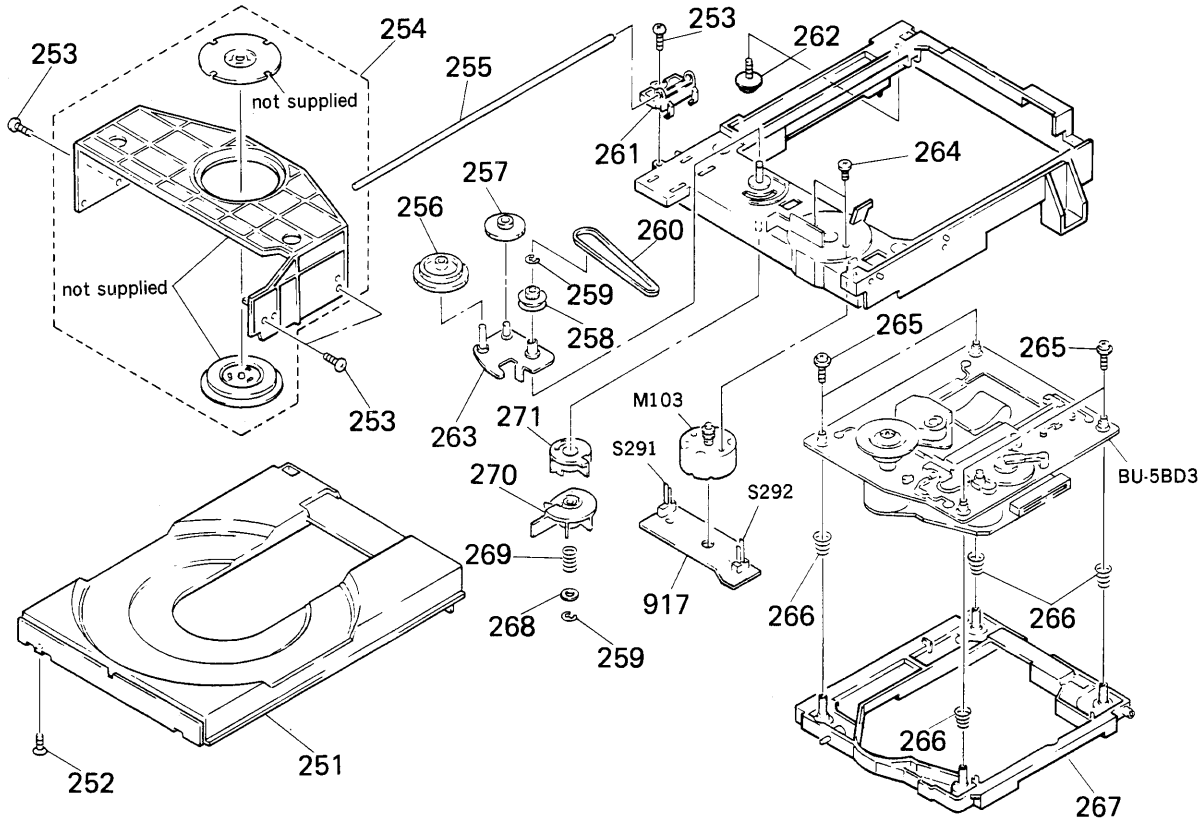
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	X-3358-205-1	FLYWHEEL (A) ASSY		164	3-358-214-01	(DECK A)...SPRING (LOCK), TORSION	
152	3-701-437-01	WASHER			3-358-233-01	(DECK B)...SPRING (REC-LOCK), TORSION	
153	7-685-133-19	SCREW +P 2.6X6 TYPE1		165	*3-358-251-01	LEVER (TENSION DETECTION ARM)	
154	7-695-970-01	SCREW +BVTT 3X5 (S)		166	3-358-259-01	(DECK B)...SLIDER (REC)	
155	4-919-393-01	DAMPER		167	*3-358-204-01	(DECK B)...LEVER (REC SAFETY)	
156	*X-3358-216-1	BRACKET (FH) ASSY		168	3-358-230-01	BELT (A1)	
157	3-358-281-01	SLIDER (HOLDER LOCK FH)		169	X-3358-202-1	LEVER (FR ARM) ASSY	
158	*3-358-249-01	SLIDER (LOCK PLATE)		170	3-358-232-01	(DECK B)...SPRING (S-P F-R), TORSION	
159	*3-358-225-01	(DECK B)...LEVER (PAUSE LEVER)			3-358-279-01	(DECK A)...SPRING (STOP), TORSION	
160	3-358-260-01	(DECK B)...SLIDER (PAUSE)		171	3-358-232-01	SPRING (S-P F-R), TORSION	
161	3-358-256-01	SLIDER (STOP/EJECT)		172	7-623-921-01	WASHER 1.7, NYLONE	
162	3-358-257-01	SLIDER (FF)					
163	3-358-258-01	SLIDER (REW)					

7-5. MECHANISM DECK BLOCK (2)



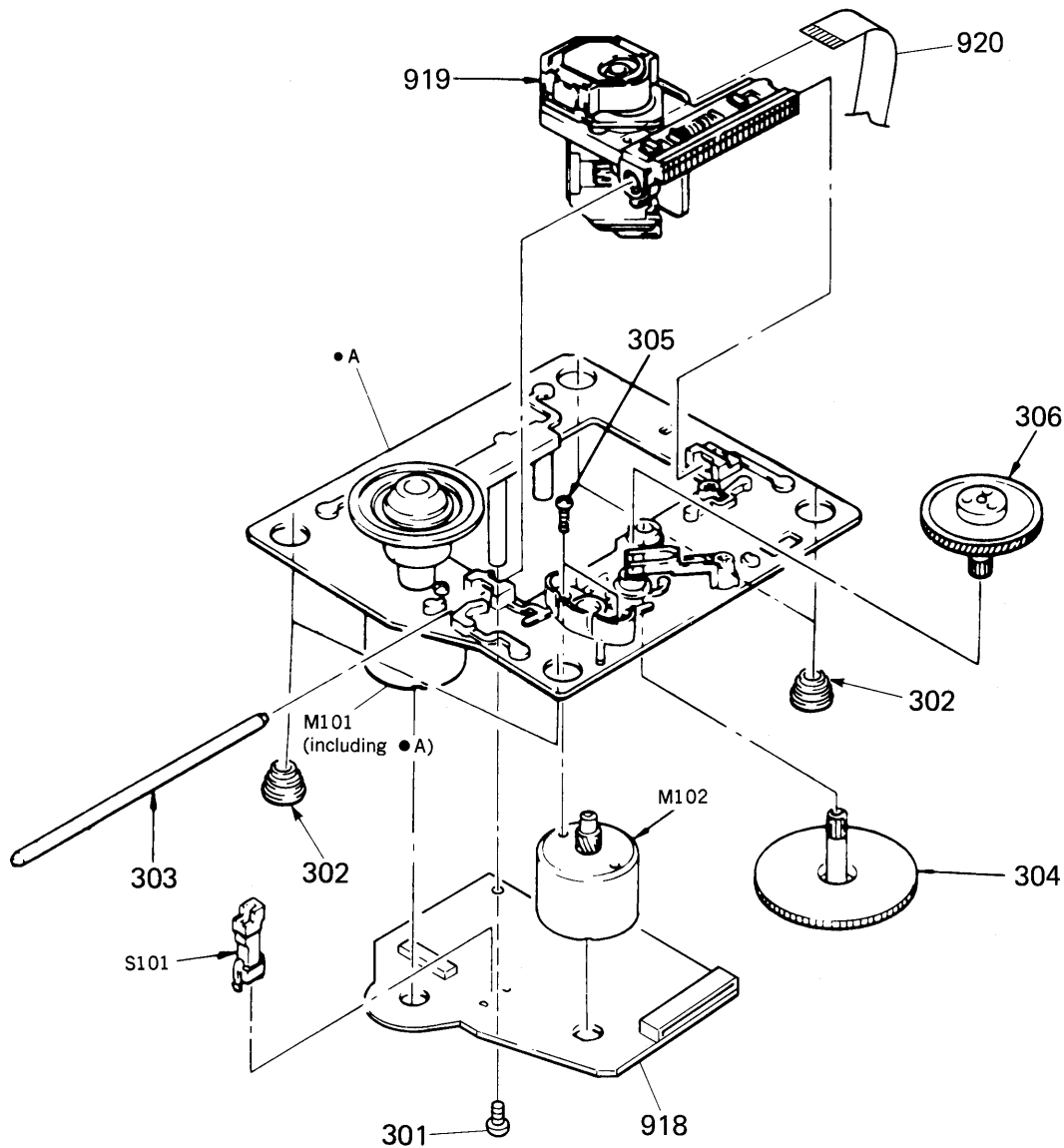
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	3-358-213-01	SCREW, AZIMUTH		214	X-3358-203-1	TABLE (T) ASSY, REEL	
202	7-695-105-19	TPG +P 2X8, TYPE 2, NON-SLIT		215	*3-358-284-01	GEAR (TU GEAR)	
203	7-623-505-01	LUG, ?		216	*3-358-252-01	LEVER (TU ARM)	
204	3-358-234-01	SPRING (AZIMUTH), COMPRESSION		217	*3-358-255-01	(DECK B)...LEVER (GB LEVER)	
205	3-358-286-01	LEVER (MOTOR LEVER)		218	*3-358-224-01	GEAR (FF GEAR)	
206	3-358-285-01	(DECK A)...GUIDE, TAPE		219	3-358-207-01	SPRING (FF GEAR), COMPRESSION	
207	3-358-228-01	SPRING, TORSION		220	3-358-227-01	SPRING, LEAF	
208	3-358-255-01	SLIDER (HEAD PC BOARD A)		221	3-358-243-01	SPRING (TU-SHUT), TORSION	
209	*3-358-215-01	BUSHING (WIRE KIT RETAINER)		222	*3-358-253-01	LEVER (SHUT-OFF LEVER)	
210	X-3358-204-1	LEVER (PINCH LEVER) ASSY	211	223	*X-3358-215-1	CHASSIS (B) ASSY	
211	3-579-143-11	PINCH ROLLER		HE1	1-543-673-11	HEAD, MAGNETIC (ERASE)	
212	3-358-248-01	GEAR (SUPPLY REEL)		HP1	1-543-672-11	HEAD, MAGNETIC (REC/PB)	
213	3-358-208-01	SPRING (SUPPLY), COMPRESSION		HRP1	1-543-672-11	HEAD, MAGNETIC (REC/PB)	




7-6. CD BLOCK (1)
(CDM13A-5BD3)




No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
251	4-929-732-01	TABLE, DISK		263	X-4929-703-1	ARM ASSY, SWING	
252	7-685-234-19	SCREW +KTP 2.6X8 TYPE2NON-SLIT		264	7-621-775-10	SCREW +B 2.6X4	
253	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		265	4-933-134-01	SCREW (+PTPWH M2.6X6)	
254	A-4604-219-A	HOLDER (MG) ASSY		266	4-917-541-01	SPRING (B)	
255	4-929-721-01	SHAFT		267	4-929-747-01	HOLDER (BU)	
256	4-927-620-01	GEAR (P)		268	4-927-654-01	WASHER (LIMITER)	
257	4-927-628-01	GEAR (C)		269	3-659-338-00	SPRING, COMPRESSION	
258	4-929-724-01	PULLEY (B)		270	4-929-729-01	CAM (B)	
259	7-624-105-04	STOP RING 2.3, TYPE -E		271	4-929-727-01	CAM (A)	
260	4-927-649-01	BELT		M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
261	4-929-723-01	GUIDE (T)		S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)	
262	*4-917-593-21	BRACKET, YOKE		S292	1-571-924-11	SWITCH, LEAF (LOAD IN)	

7-7. CD BLOCK (2)
(BU-5BD3)



<p>Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.</p>	<p>Note: Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
301	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S		918	*A-4617-371-A	MOUNTED PCB, BD	
302	4-933-126-01	INSULATOR (A)		919	 S-848-144-11	DEVICE, OPTICAL KSS-240A	
303	4-917-565-01	SHAFT, SLED		920	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
304	4-917-564-01	GEAR (P), FLATNESS		M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
305	7-621-255-15	SCREW +P 2X3		M102	X-4917-504-1	MOTOR ASSY (SLED)	
306	4-917-567-01	GEAR (M)		S101	1-572-085-11	(BD)...SWITCH, LEAF (LIMIT IN)	

SECTION 8 ELECTRICAL PARTS LIST

NOTE:

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

CAPACITORS:MF: μ F, PF: μ μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

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

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

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	Ref.No.	Part No.	Description
901	*1-562-908-11	(WG,IT)...CONNECTOR, FEMALE (NO SHIELD)	C21	1-161-379-00	(AEP,EE,E,EA,AUS)
902	1-533-213-31	HOLDER, FUSE			...CERAMIC 0.01MF 30% 16V
903	*1-634-853-11	PC BOARD, TRANSFORMER	C22	1-102-947-00	(E,EA,AUS)...CERAMIC 10PF 0.5PF 50V
904	*1-634-850-11	PC BOARD, CHEMICAL CONDENSOR	C23	1-136-162-00	(E,EA,AUS)...FILM 0.056MF 5% 50V
905	*1-634-849-11	PC BOARD, POWER	C24	1-136-161-00	(E,EA,AUS)...FILM 0.047MF 5% 50V
906	*A-4334-274-A	(E,EA,AUS).....MOUNTED PCB, DISPLAY	C51	1-164-056-11	CERAMIC 27PF 5% 50V
	*A-4334-281-A	(EE).....MOUNTED PCB, DISPLAY	C52	1-164-056-11	CERAMIC 27PF 5% 50V
	*A-4334-284-A	(AEP).....MOUNTED PCB, DISPLAY	C53	1-161-379-00	CERAMIC 0.01MF 30% 16V
	*A-4334-287-A	(US,Canadian)...MOUNTED PCB, DISPLAY	C54	1-161-379-00	CERAMIC 0.01MF 30% 16V
	*A-4334-294-A	(WG).....MOUNTED PCB, DISPLAY	C55	1-161-379-00	CERAMIC 0.01MF 30% 16V
	*A-4334-296-A	(IT).....MOUNTED PCB, DISPLAY	C56	1-161-379-00	CERAMIC 0.01MF 30% 16V
907	*1-634-856-11	PC BOARD, REC LED	C57	1-161-379-00	CERAMIC 0.01MF 30% 16V
908	*1-634-857-11	PC BOARD, JACK	C58	1-123-875-11	ELECT 10MF 20% 50V
909	*1-634-852-11	PC BOARD, SW	C59	1-161-379-00	CERAMIC 0.01MF 30% 16V
910	*1-634-854-11	PC BOARD, VR	C60	1-124-477-11	ELECT 47MF 20% 25V
911	1-575-672-11	WIRE, FLAT TYPE (13 CORE)	C61	1-124-925-11	ELECT 2.2MF 20% 50V
912	1-575-674-11	WIRE, FLAT TYPE (8 CORE)	C62	1-136-153-00	FILM 0.01MF 5% 50V
913	1-535-832-11	JUMPER, FILM (WITH TERMINAL)	C63	1-124-463-00	ELECT 0.1MF 20% 50V
914	1-575-673-11	WIRE, FLAT TYPE (15 CORE)	C64	1-124-902-00	(AEP,WG,IT,EE) ...ELECT 0.47MF 20% 50V
915	*A-4334-271-A	(E,EA,AUS).....MOUNTED PCB, MAIN	C65	1-136-157-00	(AEP,WG,IT,EE) ...FILM 0.022MF 5% 50V
	*A-4334-279-A	(EE).....MOUNTED PCB, MAIN	C66	1-136-157-00	(AEP,WG,IT,EE) ...FILM 0.022MF 5% 50V
	*A-4334-282-A	(AEP).....MOUNTED PCB, MAIN	C67	1-162-282-31	CERAMIC 100PF 10% 50V
	*A-4334-286-A	(US,Canadian)...MOUNTED PCB, MAIN	C81	1-161-379-00	CERAMIC 0.01MF 30% 16V
	*A-4334-292-A	(WG,IT).....MOUNTED PCB, MAIN	C82	1-124-472-11	ELECT 470MF 20% 10V
916	*1-635-160-11	(DECK A)...PC BOARD, SWITCH (A)	C83	1-161-379-00	CERAMIC 0.01MF 30% 16V
	*1-635-160-11	(DECK B)...PC BOARD, SWITCH (B)	C84	1-123-875-11	ELECT 10MF 20% 50V
917	1-634-461-11	PC BOARD, LOADING	C85	1-161-379-00	CERAMIC 0.01MF 30% 16V
918	*A-4617-371-A	MOUNTED PCB, BD	C86	1-162-282-31	CERAMIC 100PF 10% 50V
919	Δ 8-848-144-11	DEVICE, OPTICAL KSS-240A	C87	1-161-379-00	CERAMIC 0.01MF 30% 16V
920	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	C88	1-123-875-11	ELECT 10MF 20% 50V
ANT1	1-501-270-00	ANTENNA, TELESCOPIC	C89	1-161-379-00	CERAMIC 0.01MF 30% 16V
C1	1-162-195-31	(AEP,EE,E,EA,AUS) ...CERAMIC 4.7PF 10% 50V	C90	1-124-477-11	ELECT 47MF 20% 25V
C2	1-123-875-11	ELECT 10MF 20% 50V	C91	1-162-294-31	CERAMIC 0.001MF 10% 50V
C3	1-161-379-00	CERAMIC 0.01MF 30% 16V	C92	1-162-294-31	CERAMIC 0.001MF 10% 50V
C4	1-162-294-31	CERAMIC 0.001MF 10% 50V	C93	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C5	1-161-379-00	CERAMIC 0.01MF 30% 16V	C94	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C6	1-164-159-11	(E,EA,AUS)...CERAMIC 0.1MF 50V	C95	1-124-791-11	ELECT 1MF 20% 50V
C7	1-164-159-11	(EXCEPT US,Canadian) ...CERAMIC 0.1MF 50V	C96	1-124-791-11	ELECT 1MF 20% 50V
C8	1-161-379-00	(AEP,WG,IT,EE) ...CERAMIC 0.01MF 30% 16V	C97	1-124-791-11	ELECT 1MF 20% 50V
C9	1-102-120-00	(AEP,WG,IT,EE) ...CERAMIC 0.0018MF 10% 50V	C98	1-124-791-11	ELECT 1MF 20% 50V
C10	1-161-374-11	(AEP,WG,IT,EE) ...CERAMIC 0.0015MF 30% 16V	C99	1-136-154-00	(EXCEPT US,Canadian) ...FILM 0.012MF 5% 50V
			C99	1-136-155-00	(US,Canadian) ...FILM 0.015MF 5% 50V

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C100	1-136-154-00	(EXCEPT US,Canadian)				C213	1-161-379-00	CERAMIC	0.01MF	30%	16V
		...FILM	0.012MF	5%	50V	C214	1-124-465-00	ELECT	0.47MF	20%	50V
C100	1-136-155-00	(US,Canadian)				C215	1-164-159-11	CERAMIC	0.1MF		50V
		...FILM	0.015MF	5%	50V						
C101	1-123-875-11	ELECT	10MF	20%	50V	C221	1-162-207-31	CERAMIC	22PF	5%	50V
C101	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C222	1-162-207-31	CERAMIC	22PF	5%	50V
						C223	1-124-443-00	ELECT	100MF	20%	10V
C102	1-161-379-00	CERAMIC	0.01MF	30%	16V	C225	1-136-165-00	FILM	0.1MF	5%	50V
C102	1-163-989-11	(BD)...CERAMIC CHIP	0.033MF	10%	25V	C229	1-123-875-11	ELECT	10MF	20%	50V
						C231	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C103	1-124-463-00	ELECT	0.1MF	20%	50V						
C103	1-126-094-11	(BD)...ELECT	4.7MF	20%	16V	C232	1-161-374-11	CERAMIC	0.0015MF	30%	16V
						C233	1-162-286-31	CERAMIC	220PF	10%	50V
C104	1-124-791-11	ELECT	1MF	20%	50V	C234	1-162-286-31	CERAMIC	220PF	10%	50V
C104	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V						
						C235	1-124-791-11	ELECT	1MF	20%	50V
C105	1-124-791-11	ELECT	1MF	20%	50V	C236	1-124-791-11	ELECT	1MF	20%	50V
C105	1-126-154-11	(BD)...ELECT	4.7MF	20%	6.3V	C237	1-123-875-11	ELECT	10MF	20%	50V
C106	1-124-791-11	ELECT	1MF	20%	50V	C238	1-123-875-11	ELECT	10MF	20%	50V
C106	1-126-154-11	(BD)...ELECT	4.7MF	20%	6.3V	C251	1-162-282-31	CERAMIC	100PF	10%	50V
						C252	1-162-282-31	CERAMIC	100PF	10%	50V
C107	1-126-154-11	(BD)...ELECT	4.7MF	20%	6.3V						
C107	1-162-282-31	(WG,IT)...CERAMIC	100PF	10%	50V	C253	1-162-282-31	CERAMIC	100PF	10%	50V
						C254	1-162-282-31	CERAMIC	100PF	10%	50V
C108	1-162-211-31	(EXCEPT WG,IT)				C255	1-162-282-31	CERAMIC	100PF	10%	50V
	CERAMIC	33PF	5%	50V						
C108	1-162-291-31	(WG,IT)....CERAMIC	560PF	10%	50V	C256	1-161-379-00	CERAMIC	0.01MF	30%	16V
C108	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C257	1-161-379-00	CERAMIC	0.01MF	30%	16V
						C258	1-161-379-00	CERAMIC	0.01MF	30%	16V
C109	1-161-379-00	CERAMIC	0.01MF	30%	16V						
C109	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C401	1-162-282-31	CERAMIC	100PF	10%	50V
						C402	1-162-282-31	CERAMIC	100PF	10%	50V
C110	1-161-379-00	CERAMIC	0.01MF	30%	16V	C403	1-162-290-31	CERAMIC	470PF	10%	50V
C110	1-163-989-11	(BD)...CERAMIC CHIP	0.033MF	10%	25V						
						C410	1-126-157-11	ELECT	10MF	20%	16V
C111	1-124-925-11	ELECT	2.2MF	20%	50V	C416	1-124-463-00	ELECT	0.1MF	20%	50V
C111	1-131-367-00	(BD)...TANTALUM	22MF	20%	16V	C417	1-126-157-11	ELECT	10MF	20%	16V
C112	1-161-379-00	CERAMIC	0.01MF	30%	16V	C418	1-126-157-11	ELECT	10MF	20%	16V
C112	1-164-232-11	(BD)...CERAMIC CHIP	0.01MF	10%	50V	C419	1-126-157-11	ELECT	10MF	20%	16V
						C420	1-126-157-11	ELECT	10MF	20%	16V
C113	1-161-379-00	(AEP,EE,E,EA,AUS)									
		...CERAMIC	0.01MF	30%	16V	C421	1-126-157-11	ELECT	10MF	20%	16V
C113	1-164-232-11	(BD)...CERAMIC CHIP	0.01MF	10%	50V	C422	1-126-157-11	ELECT	10MF	20%	16V
						C423	1-161-379-00	CERAMIC	0.01MF	30%	16V
C114	1-161-379-00	CERAMIC	0.01MF	30%	16V						
C114	1-164-161-11	(BD)...CERAMIC CHIP	0.0022MF	10%	50V	C451	1-162-282-31	CERAMIC	100PF	10%	50V
						C452	1-162-282-31	CERAMIC	100PF	10%	50V
C115	1-164-161-11	(BD)...CERAMIC CHIP	0.0022MF	10%	50V	C453	1-162-290-31	CERAMIC	470PF	10%	50V
C116	1-161-379-00	CERAMIC	0.01MF	30%	16V						
						C460	1-126-157-11	ELECT	10MF	20%	16V
C117	1-161-379-00	CERAMIC	0.01MF	30%	16V	C471	1-162-294-31	CERAMIC	0.001MF	10%	50V
C117	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C472	1-162-294-31	CERAMIC	0.001MF	10%	50V
C118	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C473	1-162-282-31	CERAMIC	100PF	10%	50V
C119	1-164-161-11	(BD)...CERAMIC CHIP	0.0022MF	10%	50V	C474	1-162-215-31	CERAMIC	47PF	5%	50V
C120	1-163-989-11	(BD)...CERAMIC CHIP	0.033MF	10%	25V	C475	1-164-159-11	CERAMIC	0.1MF		50V
C151	1-163-019-00	(BD)...CERAMIC CHIP	0.0068MF	10%	50V	C491	1-164-159-11	CERAMIC	0.1MF		50V
C152	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C492	1-164-159-11	CERAMIC	0.1MF		50V
C153	1-163-006-11	(BD)...CERAMIC CHIP	560PF	10%	50V	C493	1-164-159-11	CERAMIC	0.1MF		50V
C154	1-164-161-11	(BD)...CERAMIC CHIP	0.0022MF	10%	50V	C494	1-164-159-11	CERAMIC	0.1MF		50V
C155	1-163-023-00	(BD)...CERAMIC CHIP	0.015MF	10%	50V	C501	1-162-282-31	CERAMIC	100PF	10%	50V
C171	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C502	1-162-294-31	CERAMIC	0.001MF	10%	50V
C172	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C504	1-162-289-31	CERAMIC	390PF	10%	50V
C173	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C505	1-161-329-00	CERAMIC	0.0068MF	30%	16V
C174	1-163-038-00	(BD)...CERAMIC CHIP	0.1MF		25V	C506	1-162-294-31	CERAMIC	0.001MF	10%	50V
C201	1-164-159-11	CERAMIC	0.1MF		50V	C507	1-161-494-00	CERAMIC	0.022MF		25V
C211	1-136-161-00	FILM	0.047MF	5%	50V	C508	1-161-327-00	CERAMIC	0.0033MF	30%	16V
C212	1-161-374-11	CERAMIC	0.0015MF	30%	16V	C509	1-164-159-11	CERAMIC	0.1MF		50V

Ref.No.	Part No.	Description					Ref.No.	Part No.	Description				
C510	1-161-379-00	CERAMIC	0.01MF	30%	16V		C611	1-162-293-31	CERAMIC	820PF	10%	50V	
C511	1-124-464-11	ELECT	0.22MF	20%	50V		C612	1-162-282-31	CERAMIC	100PF	10%	50V	
C512	1-161-494-00	CERAMIC	0.022MF		25V		C613	1-136-157-00	FILM	0.022MF	5%	50V	
C513	1-126-160-11	ELECT	1MF	20%	50V		C614	1-123-875-11	ELECT	10MF	20%	50V	
C514	1-136-163-00	FILM	0.068MF	5%	50V		C621	1-162-282-31	CERAMIC	100PF	10%	50V	
C515	1-136-163-00	FILM	0.068MF	5%	50V		C622	1-162-282-31	CERAMIC	100PF	10%	50V	
C521	1-161-379-00	CERAMIC	0.1MF		50V		C623	1-130-474-00	(AEP,WG,IT,EE) ...MYLAR	0.0018MF	5%	50V	
C522	1-164-159-11	CERAMIC	0.1MF		50V		C624	1-130-480-00	(AEP,WG,IT,EE) ...MYLAR	0.0056MF	5%	50V	
C523	1-161-379-00	CERAMIC	0.01MF	30%	16V		C625	1-123-875-11	(AEP,WG,IT,EE) ...ELECT	10MF	20%	50V	
C524	1-161-379-00	CERAMIC	0.01MF	30%	16V		C626	1-124-791-11	ELECT	1MF	20%	50V	
C551	1-162-282-31	CERAMIC	100PF	10%	50V		C627	1-161-282-31	(AEP,WG,IT,EE) ...CERAMIC	100PF	10%	50V	
C552	1-162-294-31	CERAMIC	0.001MF	10%	50V		C628	1-161-379-00	(AEP,WG,IT,EE) ...CERAMIC	0.01MF	30%	16V	
C554	1-162-289-31	CERAMIC	390PF	10%	50V		C651	1-162-293-31	CERAMIC	820PF	10%	50V	
C555	1-161-329-00	CERAMIC	0.0068MF	30%	16V		C652	1-162-282-31	CERAMIC	100PF	10%	50V	
C556	1-162-294-31	CERAMIC	0.001MF	10%	50V		C653	1-136-157-00	FILM	0.022MF	5%	50V	
C557	1-161-494-00	CERAMIC	0.022MF		25V		C654	1-126-157-11	ELECT	10MF	20%	16V	
C558	1-161-327-00	CERAMIC	0.0033MF	30%	16V		C657	1-162-282-31	(AEP,WG,IT,EE) ...CERAMIC	100PF	10%	50V	
C559	1-164-159-11	CERAMIC	0.1MF		50V		C658	1-161-379-00	(AEP,WG,IT,EE) ...CERAMIC	0.01MF	30%	16V	
C560	1-161-379-00	CERAMIC	0.01MF	30%	16V		C659	1-136-161-00	FILM	0.047MF	5%	50V	
C561	1-124-464-11	ELECT	0.22MF	20%	50V		C661	1-162-293-31	CERAMIC	820PF	10%	50V	
C562	1-161-494-00	CERAMIC	0.022MF		25V		C662	1-162-282-31	CERAMIC	100PF	10%	50V	
C563	1-126-160-11	ELECT	1MF	20%	50V		C663	1-136-157-00	FILM	0.022MF	5%	50V	
C564	1-136-163-00	FILM	0.068MF	5%	50V		C664	1-123-875-11	ELECT	10MF	20%	50V	
C565	1-136-163-00	FILM	0.068MF	5%	50V		C671	1-162-282-31	CERAMIC	100PF	10%	50V	
C566	1-161-379-00	CERAMIC	0.01MF	30%	16V		C672	1-162-282-31	CERAMIC	100PF	10%	50V	
C567	1-161-379-00	CERAMIC	0.01MF	30%	16V		C673	1-130-474-00	(AEP,WG,IT,EE) ...MYLAR	0.0018MF	5%	50V	
C568	1-126-157-11	ELECT	10MF	20%	16V		C674	1-130-480-00	(AEP,WG,IT,EE) ...MYLAR	0.0056MF	5%	50V	
C569	1-164-159-11	CERAMIC	0.1MF		50V		C675	1-123-875-11	(AEP,WG,IT,EE) ...ELECT	10MF	20%	50V	
C571	1-124-584-00	ELECT	100MF	20%	10V		C676	1-124-791-11	ELECT	1MF	20%	50V	
C572	1-124-584-00	ELECT	100MF	20%	10V		C701	1-162-290-31	CERAMIC	470PF	10%	50V	
C573	1-126-160-11	ELECT	1MF	20%	50V		C702	1-162-290-31	CERAMIC	470PF	10%	50V	
C574	1-126-160-11	ELECT	1MF	20%	50V		C703	1-124-254-00	ELECT	0.68MF	20%	50V	
C578	1-164-159-11	CERAMIC	0.01MF	30%	16V		C704	1-123-875-11	ELECT	10MF	20%	50V	
C579	1-136-173-00	FILM	0.47MF	5%	50V		C705	1-126-157-11	ELECT	10MF	20%	16V	
C580	1-136-173-00	FILM	0.47MF	5%	50V		C706	1-124-902-00	ELECT	0.47MF	20%	50V	
C581	1-136-173-00	FILM	0.47MF	5%	50V		C707	1-124-925-11	ELECT	2.2MF	20%	50V	
C582	1-164-159-11	CERAMIC	0.1MF		50V		C709	1-123-875-11	ELECT	10MF	20%	50V	
C583	1-162-282-31	CERAMIC	100PF	10%	50V		C710	1-162-288-31	CERAMIC	330PF	10%	50V	
C584	1-162-282-31	CERAMIC	100PF	10%	50V		C711	1-162-282-31	CERAMIC	100PF	10%	50V	
C585	1-161-379-00	CERAMIC	0.01MF	30%	16V		C712	1-124-443-00	ELECT	100MF	20%	10V	
C586	1-161-379-00	CERAMIC	0.01MF	30%	16V		C713	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C587	1-162-282-31	CERAMIC	100PF	10%	50V		C714	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C588	1-161-379-00	CERAMIC	0.01MF	30%	16V		C721	1-161-374-11	CERAMIC	0.0015MF	30%	16V	
C589	1-161-379-00	CERAMIC	0.01MF	30%	16V		C722	1-161-329-00	CERAMIC	0.0068MF	30%	16V	
C590	1-161-379-00	CERAMIC	0.01MF	30%	16V		C723	1-124-791-11	ELECT	1MF	20%	50V	
C592	1-162-199-31	CERAMIC	10PF	5%	50V		C724	1-124-925-11	ELECT	2.2MF	20%	50V	
C593	1-162-199-31	CERAMIC	10PF	5%	50V		C725	1-136-153-00	(AEP,WG,IT,EE) ...FILM	0.01MF	5%	50V	
C594	1-162-207-31	CERAMIC	22PF	5%	50V		C725	1-136-154-00	(US,Canadian,F,EA,AUS) ...FILM	0.012MF	5%	50V	
C595	1-162-207-31	CERAMIC	22PF	5%	50V								
C596	1-125-447-11	DOUBLE LAYERS	1F		5.5V								
C597	1-126-157-11	ELECT	10MF	20%	16V								
C601	1-162-293-31	CERAMIC	820PF	10%	50V								
C602	1-162-282-31	CERAMIC	100PF	10%	50V								
C603	1-136-157-00	FILM	0.022MF	5%	50V								
C604	1-126-157-11	ELECT	10MF	20%	16V								
C609	1-136-161-00	FILM	0.047MF	5%	50V								
C610	1-161-379-00	CERAMIC	0.01MF	30%	16V								

<p>Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p>	<p>Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C726	1-130-475-00	(AEP,WG,IT,EE)	C920	1-164-159-11	CERAMIC 0.1MF 50V
		...MYLAR 0.0022MF 5% 50V	C921	1-164-159-11	CERAMIC 0.1MF 50V
C727	1-130-475-00	(AEP,WG,IT,EE)	C922	1-126-094-11	ELECT 4.7MF 20% 35V
		...MYLAR 0.0022MF 5% 50V	C996	1-124-927-11	ELECT 4.7MF 20% 50V
C728	1-162-286-31	CERAMIC 220PF 10% 50V	C997	1-124-791-11	ELECT 1MF 20% 50V
C729	1-162-286-31	CERAMIC 220PF 10% 50V	C998	1-126-176-11	ELECT 220MF 20% 10V
C731	1-124-927-11	ELECT 4.7MF 20% 50V	C999	1-123-875-11	ELECT 10MF 20% 50V
C735	1-124-143-00	ELECT 100MF 20% 10V	CB801 Δ	1-532-564-00	BREAKER, CIRCUIT (2.2A)
C736	1-161-379-00	CERAMIC 0.01MF 30% 16V	CB851 Δ	1-532-564-00	BREAKER, CIRCUIT (2.2A)
C737	1-123-875-11	ELECT 10MF 20% 50V	CF1	1-567-389-11	FILTER, CERAMIC (10.7MHz)
C738	1-161-379-00	CERAMIC 0.01MF 30% 16V	CF2	1-567-389-11	(WG,IT)...FILTER, CERAMIC (10.7MHz)
C739	1-164-159-11	CERAMIC 0.1MF 50V	CF81	1-567-389-11	FILTER, CERAMIC (10.7MHz)
C740	1-161-379-00	CERAMIC 0.01MF 30% 16V	CN1A	*1-564-498-11	PIN, CONNECTOR 5P
C751	1-162-290-31	CERAMIC 470PF 10% 50V	CN1B	*1-564-499-11	PIN, CONNECTOR 6P
C752	1-162-290-31	CERAMIC 470PF 10% 50V	CN101	1-568-795-11	(BD)...SOCKET, CONNECTOR 22P
C753	1-124-254-00	ELECT 0.68MF 20% 50V	CN102	1-568-795-11	(BD)...SOCKET, CONNECTOR 12P
C754	1-123-875-11	ELECT 10MF 20% 50V	CN201	*1-569-155-11	PLUG, CONNECTOR 10P
C755	1-126-157-11	ELECT 10MF 20% 16V	CN202	1-568-802-11	SOCKET, CONNECTOR 19P
C756	1-124-902-00	ELECT 0.47MF 20% 50V	CN203	*1-569-156-11	SOCKET, CONNECTOR 10P
C757	1-124-925-11	ELECT 2.2MF 20% 50V	CN253	*1-564-339-71	PIN, CONNECTOR 5P
C759	1-123-875-11	ELECT 10MF 20% 50V	CN291	*1-564-498-11	PIN, CONNECTOR 5P
C760	1-162-288-31	CERAMIC 330PF 10% 50V	CN350	*1-564-495-11	PIN, CONNECTOR 2P
C761	1-162-282-31	CERAMIC 100PF 10% 50V	CN401	*1-569-418-11	PIN, CONNECTOR 13P
C764	1-162-294-31	CERAMIC 0.001MF 10% 50V	CN402	*1-568-856-11	SOCKET, CONNECTOR 13P
C795	1-123-875-11	ELECT 10MF 20% 50V	CN403	*1-568-827-11	SOCKET, CONNECTOR 8P
C801	1-123-875-11	ELECT 10MF 20% 50V	CN404	*1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P
C802	1-162-290-31	CERAMIC 470PF 10% 50V	CN451	*1-568-851-11	SOCKET, CONNECTOR 8P
C803	1-126-233-11	ELECT 22MF 20% 50V	CN501	*1-569-156-11	SOCKET, CONNECTOR 10P
C804	1-164-159-11	CERAMIC 0.1MF 50V	CN502	*1-569-156-11	SOCKET, CONNECTOR 10P
C805	1-164-159-11	CERAMIC 0.1MF 50V	CN503	*1-509-931-11	SOCKET, CONNECTOR 13P
C851	1-123-875-11	ELECT 10MF 20% 50V	CN601	*1-564-507-11	PLUG, CONNECTOR 4P
C852	1-162-290-31	CERAMIC 470PF 10% 50V	CN602	*1-564-509-11	PLUG, CONNECTOR 6P
C853	1-126-233-11	ELECT 22MF 20% 50V	CN701	*1-569-155-11	PLUG, CONNECTOR 10P
C854	1-164-159-11	CERAMIC 0.1MF 50V	CN702	*1-569-155-11	PLUG, CONNECTOR 10P
C855	1-164-159-11	CERAMIC 0.1MF 50V	CN703	*1-568-832-11	SOCKET, CONNECTOR 13P
C871	1-124-618-11	ELECT 2200MF 20% 35V	CN704	*1-568-834-11	SOCKET, CONNECTOR 15P
C872	1-124-618-11	ELECT 2200MF 20% 35V	CN721	*1-564-505-11	PLUG, CONNECTOR 2P
C873	1-124-120-11	ELECT 220MF 20% 16V	CN751	*1-564-336-00	PIN, CONNECTOR 2P
C874	1-124-484-11	ELECT 220MF 20% 35V	CN752	*1-564-336-71	PIN, CONNECTOR 2P
C875	1-123-875-11	ELECT 10MF 20% 50V	CN785	*1-564-339-00	PIN, CONNECTOR 5P
C876	1-123-875-11	ELECT 10MF 20% 50V	CN786	*1-564-340-00	PIN, CONNECTOR 6P
C877	1-123-875-11	ELECT 10MF 20% 50V	CN801	*1-508-694-00	PIN, CONNECTOR 3P
C878	1-124-910-11	ELECT 47MF 20% 50V	CN802	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
C879	1-124-910-11	ELECT 47MF 20% 50V	CN901 Δ	1-526-930-11	(US,Canadian,E,EA,AUS) ...INLET, AC (~ AC IN)
C880	1-124-910-11	ELECT 47MF 20% 50V	CN901 Δ	1-526-931-11	(AEP,WG,IT,EE)...INLET, AC (~ AC IN)
C901	1-164-159-11	CERAMIC 0.1MF 50V	CN902	*1-568-853-11	SOCKET, CONNECTOR 15P
C902	1-164-159-11	CERAMIC 0.1MF 50V	CN903	*1-565-484-11	CONNECTOR, BOARD TO BOARD 8P
C903	1-126-160-11	ELECT 1MF 20% 50V	CP503	1-233-207-11	COMPOSITION CIRCUIT BLOCK (220PX13)
C905	1-124-122-11	ELECT 100MF 20% 50V	CP504	1-233-207-11	COMPOSITION CIRCUIT BLOCK (220PX13)
C906	1-124-556-11	ELECT 2200MF 20% 16V	CT21	1-141-227-00	(E,EA,AUS)...TRIMMER
C907	1-124-572-11	ELECT 100MF 20% 63V	CT22	1-141-227-00	(E,EA,AUS)...TRIMMER
C909	1-126-094-11	ELECT 4.7MF 20% 35V	D21	8-719-902-79	(E,EA,AUS)...DIODE KV1236Z
C911	1-126-094-11	ELECT 4.7MF 20% 35V	D81	8-719-912-20	DIODE 1SS120
C912	1-126-157-11	ELECT 10MF 20% 16V	D201	8-719-010-34	DIODE UZ-4.7B5C
C913	1-126-094-11	ELECT 4.7MF 20% 35V	D205	8-719-912-20	DIODE 1SS120
C915	1-126-094-11	ELECT 4.7MF 20% 35V	D206	8-719-984-16	LED GL-1HY112-CD
C916	1-126-094-11	ELECT 4.7MF 20% 35V	D207	8-719-984-17	LED GL-1EG112-CD
C917	1-126-094-11	ELECT 4.7MF 20% 35V			

Ref.No.	Part No.	Description
D208	8-719-912-20	DIODE 1SS120
D209	8-719-912-20	DIODE 1SS120
D210	8-719-912-20	DIODE 1SS120
D211	3-719-912-20	DIODE 1SS120
D300	8-719-302-75	LED SEL2210W-D
D406	8-719-912-20	DIODE 1SS120
D521	8-719-312-80	LED SEL4214R-LC05
D522	8-719-312-81	LED SEL4914R-LC05
D523	8-719-312-81	LED SEL4914R-LC05
D571	8-719-912-20	DIODE 1SS120
D572	8-719-912-20	DIODE 1SS120
D574	8-719-912-20	DIODE 1SS120
D576	8-719-912-20	DIODE 1SS120
D577	8-719-912-20	DIODE 1SS120
D578	8-719-912-20	DIODE 1SS120
D579	8-719-912-20	DIODE 1SS120
D580	8-719-912-20	DIODE 1SS120
D581	8-719-912-20	DIODE 1SS120
D582	8-719-912-20	DIODE 1SS120
D583	8-719-912-20	DIODE 1SS120
D584	8-719-912-20	DIODE 1SS120
D585	8-719-912-20	(US,Canadian,E,EA,AUS)...DIODE 1SS120
D588	8-719-912-20	(AEP,WG,E,EA,AUS)...DIODE 1SS120
D589	8-719-912-20	(IT,EE)...DIODE 1SS120
D590	8-719-912-20	(EE,E,EA,AUS)...DIODE 1SS120
D598	8-719-001-21	DIODE UZL-9H1
D601	8-719-912-20	DIODE 1SS120
D701	8-719-933-48	DIODE HZS783L
D721	8-719-912-20	DIODE 1SS120
D735	8-719-933-36	DIODE HZS681L
D736	8-719-912-20	DIODE 1SS120
D737	8-719-912-20	DIODE 1SS120
D738	8-719-912-20	DIODE 1SS120
D739	8-719-912-20	DIODE 1SS120
D785	8-719-912-20	DIODE 1SS120
D786	8-719-912-20	DIODE 1SS120
D787	8-719-912-20	DIODE 1SS120
D788	8-719-912-20	DIODE 1SS120
D789	8-719-912-20	DIODE 1SS120
D790	8-719-912-20	DIODE 1SS120
D791	8-719-912-20	DIODE 1SS120
D792	8-719-912-20	DIODE 1SS120
D793	8-719-912-20	DIODE 1SS120
D801	8-719-912-20	DIODE 1SS120
D901	8-719-912-20	DIODE 1SS120
D902	8-719-912-20	DIODE 1SS120
D903	8-719-200-82	DIODE 11ES2
D904	8-719-200-82	DIODE 11ES2
D907	8-719-200-82	DIODE 11ES2
D908	8-719-200-82	DIODE 11ES2
D909	8-719-312-09	DIODE RBA-402
D910	3-719-002-33	DIODE UZL-24L
D911	8-719-014-64	DIODE UZP-5.1BC
D912	8-719-933-36	DIODE HZS681L
F901	△,1-532-215-00	(EXCEPT US,Canadian)...FUSE, TIME-LAG
F901	△,1-532-555-00	(US,Canadian)...FUSE, GLASS TUBE (1.5A)
F902	△,1-532-259-00	(E,EA,AUS)...FUSE, TIME-LAG (T 1.5A)
F999	△,1-532-783-21	(US,Canadian)...FUSE, MICRO (5A/125V)

Ref.No.	Part No.	Description
FE1	1-465-007-11	(WG,IT)...FRONT END (FM) (4 GANG)
FE1	1-465-283-11	(EXCEPT WG,IT,EE)...FRONT END (2 GANG)
FE1	1-465-396-11	(EE)...FRONT END (3 GANG)
FE2	1-236-461-11	(US,Canadian)...ENCAPSULATED COMPONENT
FE2	1-236-462-11	(AEP,WG,IT,EE)...ENCAPSULATED COMPONENT
FE2	1-236-777-11	(E,EA,AUS)...ENCAPSULATED COMPONENT
FE3	1-236-463-11	(AEP,WG,IT,EE)...ENCAPSULATED COMPONENT
FL81	1-236-465-11	(WG,IT)...ENCAPSULATED COMPONENT
FLT501	1-519-577-11	INDICATOR TUBE, FLUORESCENT
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE)
HP1	1-543-672-11	HEAD, MAGNETIC (REC/PB)
HRP1	1-543-672-11	HEAD, MAGNETIC (REC/PB)
IC51	8-759-239-29	IC IC9217P
IC81	8-759-821-45	IC LA1851N
IC101	8-752-037-33	(BD)...IC CXA1372Q
IC102	8-759-821-94	(BD)...IC LA6532M
IC201	8-759-150-19	IC UPD75112CW-064
IC202	8-752-333-31	IC CXD2500Q
IC221	8-752-334-06	IC CXD2551P
IC222	8-759-990-13	IC TDA1543A
IC223	8-759-634-51	IC M5218AP
IC253	8-759-633-65	IC M54641L
IC401	8-759-634-50	IC M5218AL
IC406	8-759-820-62	IC LB1639
IC451	8-759-634-50	IC M5218AL
IC501	8-759-630-99	IC M5226FP
IC502	8-759-634-50	IC M5218AL
IC505	8-759-148-52	IC UPD75212ACW-189
IC506	8-749-920-59	IC A1QH3020S
IC551	8-759-630-99	IC M5226FP
IC601	8-759-112-93	IC UPC4570HA-1
IC602	8-759-040-53	IC MC14053BCP
IC621	8-759-634-50	(AEP,WG,IT,EE)...IC M5218AL
IC661	8-759-112-93	IC UPC4570HA-1
IC701	8-759-634-50	IC M5218AL
IC702	8-752-034-26	IC CXA1101P
IC703	8-759-000-49	IC MC14066BCP
IC704	8-752-038-00	IC CXA1298AP
IC705	8-759-208-08	IC TC4052BPHB
IC706	8-759-605-16	IC M51953BL
IC785	8-759-240-01	IC TC4001BP
IC801	8-749-900-95	IC STK-4122MK2
IC901	8-759-602-66	IC M5230L-A
IC999	8-759-821-93	IC LA5601
△ICP999	1-532-846-21	(EXCEPT US,Canadian) ...LINK, IC PRF5000 (5A)
IFT81	1-404-853-11	TRANSFORMER, 1F (CERAMIC FILTER)
IFT82	1-404-807-11	TRANSFORMER, DISCRIMINATOR
J101	1-216-295-00	(BD)...METAL GLAZE 0 5% 1/10W
J102	1-216-295-00	(BD)...METAL GLAZE 0 5% 1/10W
J401	1-562-837-21	JACK (MIX MIC)
J451	1-562-837-21	JACK (HEADPHONES)

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

Note:
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
J701	1-569-181-11	(AEP,WG,IT,EE)...JACK, PIN 2P (PHONO)
J701	1-569-181-11	(US,Canadian,E,EA,AUS) ...JACK, PIN 2P (VIDEO/AUX)
L1	1-408-425-00	(AEP,WG,IT,EE)...INDUCTOR 220UH
L81	1-410-496-11	INDUCTOR 1.5MMH
L83	1-410-489-11	INDUCTOR 390UH
L701	1-410-779-21	INDUCTOR 22MMH
L721	1-410-489-11	INDUCTOR 390UH
L751	1-410-779-21	INDUCTOR 22MMH
LPF81	1-235-164-00	FILTER, LOW PASS
LPF82	1-235-164-00	FILTER, LOW PASS
M1	X-3358-211-1	(DECK A)...MOTOR (A) ASSY
M2	X-3358-211-1	(DECK B)...MOTOR (A) ASSY
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)
M102	X-4917-504-1	MOTOR ASSY (SLED)
M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)
Q1	8-729-620-19	TRANSISTOR 2SC2724TP-CD
Q2	8-729-620-19	(WG,IT)...TRANSISTOR 2SC2724-CD
Q3	8-729-900-80	TRANSISTOR DTC114ES
Q4	8-729-900-61	TRANSISTOR DTA114ES
Q5	8-729-900-80	(EXCEPT US,Canadian) ...TRANSISTOR DTC114ES
Q6	8-729-900-80	(EXCEPT US,Canadian) ...TRANSISTOR DTC114ES
Q7	8-729-119-76	(EXCEPT US,Canadian) ...TRANSISTOR 2SA1175-HFE
Q8	8-729-620-05	(EXCEPT US,Canadian) ...TRANSISTOR 2SC2603-EF
Q9	8-729-900-80	(EXCEPT US,Canadian) ...TRANSISTOR DTC114ES
Q10	8-729-900-80	(E,EA,AUS)...TRANSISTOR DTC114ES
Q51	8-729-202-67	TRANSISTOR 2SK246-GR3
Q52	8-729-201-84	TRANSISTOR 2SC3112B
Q53	8-729-202-67	(AEP,WG,IT,EE)...TRANSISTOR 2SK246-GR3
Q54	8-729-201-84	(AEP,WG,IT,EE)...TRANSISTOR 2SC3112B
Q101	8-729-620-05	TRANSISTOR 2SC2603-EF
Q101	8-729-901-01	(B0)...TRANSISTOR DTC144EK
Q102	8-729-620-05	TRANSISTOR 2SC2603-EF
Q103	8-729-900-80	TRANSISTOR DTC114ES
Q104	8-729-900-80	TRANSISTOR DTC114ES
Q201	8-729-620-05	TRANSISTOR 2SC2603-EF
Q231	8-729-141-26	TRANSISTOR 2SC3622A-LK
Q232	8-729-141-26	TRANSISTOR 2SC3622A-LK
Q233	8-729-900-65	TRANSISTOR DTA144ES
Q234	8-729-900-80	TRANSISTOR DTC114ES
Q252	8-729-900-80	TRANSISTOR DTC114ES
Q253	8-729-900-80	TRANSISTOR DTC114ES
Q406	8-729-904-39	TRANSISTOR DTC114TS
Q407	8-729-904-39	TRANSISTOR DTC114TS
Q456	8-729-904-39	TRANSISTOR DTC114TS
Q457	8-729-904-39	TRANSISTOR DTC114TS
Q501	8-729-904-39	TRANSISTOR DTC114TS
Q551	8-729-904-39	TRANSISTOR DTC114TS
Q572	8-729-900-61	TRANSISTOR DTA114ES
Q573	8-729-224-61	TRANSISTOR 2SK246-Y
Q574	8-729-900-80	TRANSISTOR DTC114ES
Q575	8-729-900-80	TRANSISTOR DTC114ES
Q576	8-729-620-05	TRANSISTOR 2SC2603-EF

Ref.No.	Part No.	Description
Q601	8-729-904-39	TRANSISTOR DTC114TS
Q603	8-729-900-80	TRANSISTOR DTC114ES
Q651	8-729-904-39	TRANSISTOR DTC114TS
Q721	8-729-801-93	TRANSISTOR 2SD1387
Q722	8-729-620-05	TRANSISTOR 2SC2603-EF
Q723	8-729-900-80	TRANSISTOR DTC114ES
Q731	8-729-904-39	TRANSISTOR DTC114TS
Q732	8-729-900-61	TRANSISTOR DTA114ES
Q735	8-729-111-29	TRANSISTOR 2SD1616A-K
Q736	8-729-920-98	TRANSISTOR 2SD1761-EF
Q737	8-729-900-80	TRANSISTOR DTC114ES
Q738	8-729-900-61	TRANSISTOR DTA114ES
Q739	8-729-900-89	TRANSISTOR DTC144ES
Q740	8-729-900-89	TRANSISTOR DTC144ES
Q781	8-729-904-39	TRANSISTOR DTC114TS
Q785	8-729-801-93	TRANSISTOR 2SD1387
Q786	8-729-900-80	TRANSISTOR DTC114ES
Q787	8-729-900-80	TRANSISTOR DTC114ES
Q789	8-729-900-80	TRANSISTOR DTC114ES
Q790	8-729-900-80	TRANSISTOR DTC114ES
Q791	8-729-900-80	TRANSISTOR DTC114ES
Q801	8-729-900-80	TRANSISTOR DTC114ES
Q901	8-729-620-05	TRANSISTOR 2SC2603-EF
Q903	8-729-920-97	TRANSISTOR 2SB1187-EF
Q904	8-729-920-97	TRANSISTOR 2SB1187-EF
Q905	8-729-920-98	TRANSISTOR 2SD1761-EF
Q906	8-729-920-98	TRANSISTOR 2SD1761-EF
Q907	8-729-900-80	TRANSISTOR DTC114ES
Q908	8-729-900-80	TRANSISTOR DTC114ES
Q999	8-729-900-80	TRANSISTOR DTC114ES
R1	1-249-411-11	CARBON 330 5% 1/4W
R2	1-249-411-11	CARBON 330 5% 1/4W
R3	1-247-891-00	CARBON 330K 5% 1/4W
R4	1-249-411-11	CARBON 330 5% 1/4W
R5	1-247-891-00	(WG,IT)...CARBON 330K 5% 1/4W
R6	1-249-411-11	(WG,IT)...CARBON 330 5% 1/4W
R7	1-249-405-11	CARBON 100 5% 1/4W
R8	1-249-441-11	CARBON 100K 5% 1/4W
R9	1-249-437-11	CARBON 47K 5% 1/4W
R10	1-249-437-11	(AEP,WG,IT,EE)...CARBON 47K 5% 1/4W
R10	1-249-421-11	(E,EA,AUS)...CARBON 2.2K 5% 1/4W
R11	1-249-421-11	(AEP,WG,IT,EE)...CARBON 2.2K 5% 1/4W
R11	1-249-429-11	(E,EA,AUS)...CARBON 10K 5% 1/4W
R12	1-249-421-11	(AEP,WG,IT,EE)...CARBON 2.2K 5% 1/4W
R12	1-249-429-11	(E,EA,AUS)...CARBON 10K 5% 1/4W
R13	1-249-433-11	(AEP,WG,IT,EE)...CARBON 22K 5% 1/4W
R14	1-249-432-11	(AEP,WG,IT,EE)...CARBON 18K 5% 1/4W
R15	1-247-903-00	(AEP,WG,IT,EE)...CARBON 1M 5% 1/4W
R20	1-249-425-11	(EXCEPT US,Canadian) ...CARBON 4.7K 5% 1/4W
R21	1-249-429-11	(E,EA,AUS)...CARBON 10K 5% 1/4W
R22	1-249-429-11	(E,EA,AUS)...CARBON 10K 5% 1/4W
R51	1-249-417-11	CARBON 1K 5% 1/4W
R52	1-249-417-11	CARBON 1K 5% 1/4W

Ref.No.	Part No.	Description			
R53	1-249-441-11	CARBON	100K	5%	1/4W
R54	1-249-417-11	CARBON	1K	5%	1/4W
R55	1-249-425-11	CARBON	4.7K	5%	1/4W
R56	1-249-405-11	CARBON	100	5%	1/4W
R57	1-249-401-11	CARBON	47	5%	1/4W
R58	1-249-423-11	CARBON	3.3K	5%	1/4W
R59	1-249-414-11	CARBON	560	5%	1/4W
R60	1-249-417-11	CARBON	1K	5%	1/4W
R61	1-249-410-11	CARBON	270	5%	1/4W
R62	1-249-418-11	CARBON	1.2K	5%	1/4W
R63	1-249-421-11	CARBON	2.2K	5%	1/4W
R64	1-249-425-11	CARBON	4.7K	5%	1/4W
R65	1-249-425-11	CARBON	4.7K	5%	1/4W
R66	1-249-405-11	CARBON	100	5%	1/4W
R67	1-249-423-11	(AEP,WG,IT,EE)...CARBON	3.3K	5%	1/4W
R68	1-249-414-11	(AEP,WG,IT,EE)...CARBON	560	5%	1/4W
R69	1-249-417-11	(AEP,WG,IT,EE)...CARBON	1K	5%	1/4W
R70	1-249-410-11	(AEP,WG,IT,EE)...CARBON	270	5%	1/4W
R71	1-249-433-11	(AEP,WG,IT,EE)...CARBON	22K	5%	1/4W
R72	1-249-421-11	(AEP,WG,IT,EE)...CARBON	2.2K	5%	1/4W
R73	1-249-425-11	(AEP,WG,IT,EE)...CARBON	4.7K	5%	1/4W
R74	1-249-425-11	(AEP,WG,IT,EE)...CARBON	4.7K	5%	1/4W
R75	1-249-393-11	CARBON	10	5%	1/4W
R81	1-249-433-11	CARBON	22K	5%	1/4W
R82	1-249-417-11	CARBON	1K	5%	1/4W
R83	1-249-399-11	CARBON	33	5%	1/4W
R84	1-249-429-11	CARBON	10K	5%	1/4W
R85	1-249-429-11	CARBON	10K	5%	1/4W
R86	1-249-437-11	CARBON	47K	5%	1/4W
R87	1-249-409-11	CARBON	220	5%	1/4W
R88	1-249-429-11	CARBON	10K	5%	1/4W
R89	1-249-429-11	CARBON	10K	5%	1/4W
R90	1-249-421-11	CARBON	2.2K	5%	1/4W
R91	1-249-421-11	CARBON	2.2K	5%	1/4W
R92	1-247-891-00	CARBON	330K	5%	1/4W
R93	1-247-891-00	CARBON	330K	5%	1/4W
R94	1-249-417-11	CARBON	1K	5%	1/4W
R95	1-249-417-11	CARBON	1K	5%	1/4W
R96	1-249-425-11	CARBON	4.7K	5%	1/4W
R97	1-249-425-11	CARBON	4.7K	5%	1/4W
R98	1-249-404-00	CARBON	82	5%	1/4W
R99	1-249-417-11	CARBON	1K	5%	1/4W
R100	1-247-848-11	CARBON	5.1K	5%	1/4W
R101	1-216-097-00	(BD)...METAL GLAZE	100K	5%	1/10W
R102	1-216-097-00	(BD)...METAL GLAZE	100K	5%	1/10W
R102	1-249-430-11	(EXCEPT WG,IT)...CARBON	12K	5%	1/4W
R103	1-216-091-00	(BD)...METAL GLAZE	56K	5%	1/10W
R103	1-249-428-11	CARBON	8.2K	5%	1/4W
R104	1-216-099-00	(BD)...METAL GLAZE	120K	5%	1/10W
R104	1-249-435-11	CARBON	33K	5%	1/4W
R105	1-216-069-00	(BD)...METAL GLAZE	6.8K	5%	1/10W
R105	1-249-431-11	CARBON	15K	5%	1/4W
R106	1-216-061-00	(BD)...METAL GLAZE	3.3K	5%	1/10W
R106	1-249-417-11	CARBON	1K	5%	1/4W
R107	1-216-114-00	(BD)...METAL GLAZE	510K	5%	1/10W
R107	1-249-430-11	(WG,IT)...CARBON	12K	5%	1/4W

Ref.No.	Part No.	Description			
R108	1-216-105-00	(BD)...METAL GLAZE	220K	5%	1/10W
R108	1-249-417-11	CARBON	1K	5%	1/4W
R109	1-216-061-00	(BD)...METAL GLAZE	3.3K	5%	1/10W
R110	1-216-049-00	(BD)...METAL GLAZE	1K	5%	1/10W
R111	1-216-049-00	(BD)...METAL GLAZE	1K	5%	1/10W
R112	1-216-083-00	(BD)...METAL GLAZE	27K	5%	1/10W
R113	1-216-071-00	(BD)...METAL GLAZE	8.2K	5%	1/10W
R114	1-216-105-00	(BD)...METAL GLAZE	220K	5%	1/10W
R152	1-216-073-00	(BD)...METAL GLAZE	10K	5%	1/10W
R153	1-216-085-00	(BD)...METAL GLAZE	33K	5%	1/10W
R154	1-216-085-00	(BD)...METAL GLAZE	33K	5%	1/10W
R155	1-216-093-00	(BD)...METAL GLAZE	68K	5%	1/10W
R156	1-216-081-00	(BD)...METAL GLAZE	22K	5%	1/10W
R157	1-216-079-00	(BD)...METAL GLAZE	18K	5%	1/10W
R158	1-216-079-00	(BD)...METAL GLAZE	18K	5%	1/10W
R159	1-216-079-00	(BD)...METAL GLAZE	18K	5%	1/10W
R160	1-216-049-00	(BD)...METAL GLAZE	1K	5%	1/10W
R171	1-216-001-00	(BD)...METAL GLAZE	10	5%	1/10W
R172	1-216-001-00	(BD)...METAL GLAZE	10	5%	1/10W
R173	1-216-001-00	(BD)...METAL GLAZE	10	5%	1/10W
R174	1-216-001-00	(BD)...METAL GLAZE	10	5%	1/10W
R201	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-441-11	CARBON	100K	5%	1/4W
R203	1-249-422-11	CARBON	2.7K	5%	1/4W
R204	1-249-422-11	CARBON	2.7K	5%	1/4W
R205	1-249-437-11	CARBON	47K	5%	1/4W
R206	1-249-437-11	CARBON	47K	5%	1/4W
R207	1-249-437-11	CARBON	47K	5%	1/4W
R208	1-249-437-11	CARBON	47K	5%	1/4W
R209	1-249-441-11	CARBON	100K	5%	1/4W
R210	1-249-437-11	CARBON	47K	5%	1/4W
R211	1-249-423-11	CARBON	3.3K	5%	1/4W
R212	1-249-423-11	CARBON	3.3K	5%	1/4W
R213	1-249-429-11	CARBON	10K	5%	1/4W
R214	1-249-437-11	CARBON	47K	5%	1/4W
R215	1-249-429-11	CARBON	10K	5%	1/4W
R216	1-249-441-11	CARBON	100K	5%	1/4W
R217	1-249-411-11	CARBON	330	5%	1/4W
R218	1-249-411-11	CARBON	330	5%	1/4W
R219	1-249-417-11	CARBON	1K	5%	1/4W
R220	1-249-421-11	CARBON	2.2K	5%	1/4W
R221	1-249-405-11	CARBON	100	5%	1/4W
R222	1-249-405-11	CARBON	100	5%	1/4W
R223	1-249-417-11	CARBON	1K	5%	1/4W
R224	1-249-417-11	CARBON	1K	5%	1/4W
R225	1-249-417-11	CARBON	1K	5%	1/4W
R226	1-249-417-11	CARBON	1K	5%	1/4W
R231	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-425-11	CARBON	4.7K	5%	1/4W
R233	1-249-429-11	CARBON	10K	5%	1/4W
R234	1-249-393-11	CARBON	10	5%	1/4W
R235	1-249-417-11	CARBON	1K	5%	1/4W
R236	1-249-417-11	CARBON	1K	5%	1/4W
R237	1-249-419-11	CARBON	1.5K	5%	1/4W
R238	1-249-419-11	CARBON	1.5K	5%	1/4W
R239	1-249-433-11	CARBON	22K	5%	1/4W

Ref.No.	Part No.	Description			
R241	1-249-413-11	CARBON	470	5%	1/4W
R242	1-249-417-11	CARBON	1K	5%	1/4W
R243	1-249-411-11	CARBON	330	5%	1/4W
R244	1-249-411-11	CARBON	330	5%	1/4W
R245	1-249-421-11	CARBON	2.2K	5%	1/4W
R247	1-249-433-11	CARBON	2.2K	5%	1/4W
R248	1-249-421-11	CARBON	2.2K	5%	1/4W
R249	1-249-429-11	CARBON	10K	5%	1/4W
R250	1-249-429-11	CARBON	10K	5%	1/4W
R251	1-249-425-11	CARBON	4.7K	5%	1/4W
R252	1-249-425-11	CARBON	4.7K	5%	1/4W
R286	1-249-405-11	CARBON	100	5%	1/4W
R287	1-249-405-11	CARBON	100	5%	1/4W
R288	1-249-405-11	CARBON	100	5%	1/4W
R289	1-249-405-11	CARBON	100	5%	1/4W
R290	1-249-405-11	CARBON	100	5%	1/4W
R291	1-249-413-11	CARBON	470	5%	1/4W
R292	1-249-413-11	CARBON	470	5%	1/4W
R293	1-249-413-11	CARBON	470	5%	1/4W
R294	1-249-413-11	CARBON	470	5%	1/4W
R295	1-249-405-11	CARBON	100	5%	1/4W
R296	1-249-405-11	CARBON	100	5%	1/4W
R297	1-249-405-11	CARBON	100	5%	1/4W
R298	1-249-405-11	CARBON	100	5%	1/4W
R299	1-249-441-11	CARBON	100K	5%	1/4W
R401	1-249-417-11	CARBON	1K	5%	1/4W
R402	1-249-441-11	CARBON	100K	5%	1/4W
R403	1-249-441-11	CARBON	100K	5%	1/4W
R404	1-249-425-11	CARBON	4.7K	5%	1/4W
R405	1-249-401-11	CARBON	47	5%	1/4W
R406	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-425-11	CARBON	4.7K	5%	1/4W
R417	1-249-425-11	CARBON	4.7K	5%	1/4W
R418	1-249-425-11	CARBON	4.7K	5%	1/4W
R419	1-249-417-11	CARBON	1K	5%	1/4W
R426	1-249-417-11	CARBON	1K	5%	1/4W
R427	1-249-441-11	CARBON	100K	5%	1/4W
R428	1-247-903-00	CARBON	1M	5%	1/4W
R429	1-249-417-11	CARBON	1K	5%	1/4W
R430	1-249-425-11	CARBON	4.7K	5%	1/4W
R431	1-249-425-11	CARBON	4.7K	5%	1/4W
R432	1-249-429-11	CARBON	10K	5%	1/4W
R451	1-249-417-11	CARBON	1K	5%	1/4W
R452	1-249-441-11	CARBON	100K	5%	1/4W
R453	1-249-441-11	CARBON	100K	5%	1/4W
R454	1-249-425-11	CARBON	4.7K	5%	1/4W
R455	1-249-401-11	CARBON	47	5%	1/4W
R456	1-249-429-11	CARBON	10K	5%	1/4W
R457	1-249-429-11	CARBON	10K	5%	1/4W
R466	1-249-425-11	CARBON	4.7K	5%	1/4W
R467	1-249-425-11	CARBON	4.7K	5%	1/4W
R468	1-249-425-11	CARBON	4.7K	5%	1/4W
R469	1-249-417-11	CARBON	1K	5%	1/4W
R471	1-249-429-11	CARBON	10K	5%	1/4W
R472	1-249-411-11	CARBON	330	5%	1/4W
R473	1-249-441-11	CARBON	100K	5%	1/4W
R474	1-249-411-11	CARBON	330	5%	1/4W

Ref.No.	Part No.	Description			
R475	1-249-441-11	CARBON	100K	5%	1/4W
R486	1-249-413-11	CARBON	470	5%	1/4W
R487	1-249-429-11	CARBON	10K	5%	1/4W
R501	1-247-903-00	CARBON	1M	5%	1/4W
R502	1-249-425-11	CARBON	4.7K	5%	1/4W
R503	1-249-411-11	CARBON	330	5%	1/4W
R504	1-247-903-00	CARBON	1M	5%	1/4W
R505	1-249-419-11	CARBON	1.5K	5%	1/4W
R506	1-249-434-11	CARBON	27K	5%	1/4W
R507	1-247-903-00	CARBON	1M	5%	1/4W
R522	1-249-411-11	CARBON	330	5%	1/4W
R523	1-249-411-11	CARBON	330	5%	1/4W
R524	1-249-439-11	CARBON	68K	5%	1/4W
R525	1-249-417-11	CARBON	1K	5%	1/4W
R526	1-249-405-11	CARBON	100	5%	1/4W
R527	1-249-405-11	CARBON	100	5%	1/4W
R528	1-249-405-11	CARBON	100	5%	1/4W
R529	1-249-405-11	CARBON	100	5%	1/4W
R530	1-249-405-11	CARBON	100	5%	1/4W
R531	1-249-405-11	CARBON	100	5%	1/4W
R534	1-249-405-11	CARBON	100	5%	1/4W
R535	1-249-405-11	CARBON	100	5%	1/4W
R536	1-249-405-11	CARBON	100	5%	1/4W
R537	1-249-429-11	CARBON	10K	5%	1/4W
R551	1-247-903-00	CARBON	1M	5%	1/4W
R552	1-249-425-11	CARBON	4.7K	5%	1/4W
R553	1-249-411-11	CARBON	330	5%	1/4W
R554	1-247-903-00	CARBON	1M	5%	1/4W
R555	1-249-419-11	CARBON	1.5K	5%	1/4W
R556	1-249-434-11	CARBON	27K	5%	1/4W
R557	1-247-903-00	CARBON	1M	5%	1/4W
R564	1-247-887-00	CARBON	220K	5%	1/4W
R568	1-249-441-11	CARBON	100K	5%	1/4W
R569	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-249-417-11	CARBON	1K	5%	1/4W
R571	1-249-441-11	CARBON	100K	5%	1/4W
R572	1-247-891-00	CARBON	330K	5%	1/4W
R573	1-249-425-11	CARBON	4.7K	5%	1/4W
R574	1-249-441-11	CARBON	100K	5%	1/4W
R577	1-249-405-11	CARBON	100	5%	1/4W
R582	1-249-429-11	CARBON	10K	5%	1/4W
R596	1-249-429-11	CARBON	10K	5%	1/4W
R598	1-249-413-11	CARBON	470	5%	1/4W
R599	1-249-429-11	CARBON	10K	5%	1/4W
R601	1-247-881-00	CARBON	120K	5%	1/4W
R602	1-249-405-11	CARBON	100	5%	1/4W
R603	1-247-882-11	CARBON	130K	5%	1/4W
R604	1-249-426-11	CARBON	5.6K	5%	1/4W
R605	1-249-409-11	CARBON	220	5%	1/4W
R606	1-249-441-11	CARBON	100K	5%	1/4W
R607	1-249-418-11	CARBON	1.2K	5%	1/4W
R609	1-249-420-11	CARBON	1.8K	5%	1/4W
R610	1-247-887-00	CARBON	220K	5%	1/4W
R611	1-247-881-00	CARBON	120K	5%	1/4W
R612	1-249-405-11	CARBON	100	5%	1/4W
R613	1-247-882-11	CARBON	130K	5%	1/4W
R614	1-249-426-11	CARBON	5.6K	5%	1/4W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R615	1-249-409-11	CARBON 220 5% 1/4W	R731	1-249-421-11	CARBON 2.2K 5% 1/4W
R616	1-249-441-11	CARBON 100K 5% 1/4W	R732	1-249-425-11	CARBON 4.7K 5% 1/4W
R617	1-249-441-11	CARBON 100K 5% 1/4W	R733	1-249-429-11	CARBON 10K 5% 1/4W
R621	1-249-417-11	CARBON 1K 5% 1/4W	R734	1-249-437-11	CARBON 47K 5% 1/4W
R622	1-249-437-11	CARBON 47K 5% 1/4W	R735	1-249-413-11	CARBON 470 5% 1/4W
R623	1-249-437-11	(AEP,WG,IT,EE)...CARBON 47K 5% 1/4W	R736	1-249-411-11	CARBON 330 5% 1/4W
R624	1-247-897-11	(AEP,WG,IT,EE)...CARBON 560K 5% 1/4W	R737	1-249-405-11	CARBON 100 5% 1/4W
R625	1-249-417-11	(AEP,WG,IT,EE)...CARBON 1K 5% 1/4W	R738	1-249-414-11	CARBON 560 5% 1/4W
R626	1-249-425-11	CARBON 4.7K 5% 1/4W	R739	1-249-429-11	CARBON 10K 5% 1/4W
R627	1-249-437-11	CARBON 47K 5% 1/4W	R740	1-249-429-11	CARBON 10K 5% 1/4W
R651	1-247-881-00	CARBON 120K 5% 1/4W	R741	1-249-429-11	CARBON 10K 5% 1/4W
R652	1-249-405-11	CARBON 100 5% 1/4W	R742	1-249-437-11	CARBON 47K 5% 1/4W
R653	1-247-882-11	CARBON 130K 5% 1/4W	R743	1-249-429-11	CARBON 10K 5% 1/4W
R654	1-249-426-11	CARBON 5.6K 5% 1/4W	R744	1-249-425-11	CARBON 4.7K 5% 1/4W
R655	1-249-409-11	CARBON 220 5% 1/4W	R747	1-249-405-11	CARBON 100 5% 1/4W
R656	1-249-441-11	CARBON 100K 5% 1/4W	R748	1-249-405-11	CARBON 100 5% 1/4W
R657	1-249-418-11	CARBON 1.2K 5% 1/4W	R751	1-249-437-11	CARBON 47K 5% 1/4W
R659	1-249-420-11	CARBON 1.8K 5% 1/4W	R752	1-249-421-11	CARBON 2.2K 5% 1/4W
R660	1-247-887-00	CARBON 220K 5% 1/4W	R754	1-249-431-11	CARBON 15K 5% 1/4W
R661	1-247-881-00	CARBON 120K 5% 1/4W	R755	1-249-437-11	CARBON 47K 5% 1/4W
R662	1-249-405-11	CARBON 100 5% 1/4W	R756	1-249-426-11	CARBON 5.6K 5% 1/4W
R663	1-247-882-11	CARBON 130K 5% 1/4W	R758	1-249-437-11	CARBON 47K 5% 1/4W
R664	1-249-426-11	CARBON 5.6K 5% 1/4W	R760	1-249-437-11	CARBON 47K 5% 1/4W
R665	1-249-409-11	CARBON 220 5% 1/4W	R761	1-249-429-11	CARBON 10K 5% 1/4W
R666	1-249-441-11	CARBON 100K 5% 1/4W	R762	1-249-426-11	CARBON 5.6K 5% 1/4W
R671	1-249-417-11	CARBON 1K 5% 1/4W	R763	1-249-430-11	CARBON 12K 5% 1/4W
R672	1-249-437-11	CARBON 47K 5% 1/4W	R781	1-249-421-11	CARBON 2.2K 5% 1/4W
R673	1-249-437-11	(AEP,WG,IT,EE)...CARBON 47K 5% 1/4W	R782	1-249-425-11	CARBON 4.7K 5% 1/4W
R674	1-247-897-11	(AEP,WG,IT,EE)...CARBON 560K 5% 1/4W	R785	1-249-421-11	CARBON 2.2K 5% 1/4W
R675	1-249-417-11	(AEP,WG,IT,EE)...CARBON 1K 5% 1/4W	R786	1-249-421-11	CARBON 2.2K 5% 1/4W
R675	1-249-425-11	CARBON 4.7K 5% 1/4W	R787	1-249-421-11	CARBON 2.2K 5% 1/4W
R677	1-249-437-11	CARBON 47K 5% 1/4W	R788	1-249-421-11	CARBON 2.2K 5% 1/4W
R701	1-249-437-11	CARBON 47K 5% 1/4W	R789	1-249-421-11	CARBON 2.2K 5% 1/4W
R702	1-249-421-11	CARBON 2.2K 5% 1/4W	R790	1-249-421-11	CARBON 2.2K 5% 1/4W
R704	1-249-431-11	CARBON 15K 5% 1/4W	R791	1-249-429-11	CARBON 10K 5% 1/4W
R705	1-249-437-11	CARBON 47K 5% 1/4W	R792	1-249-418-11	CARBON 1.2K 5% 1/4W
R706	1-249-426-11	CARBON 5.6K 5% 1/4W	R793	1-249-441-11	CARBON 100K 5% 1/4W
R708	1-249-437-11	CARBON 47K 5% 1/4W	R794	1-249-425-11	CARBON 4.7K 5% 1/4W
R709	1-247-870-11	CARBON 43K 5% 1/4W	R795	1-249-429-11	CARBON 10K 5% 1/4W
R710	1-249-437-11	CARBON 47K 5% 1/4W	R796	1-249-429-11	CARBON 10K 5% 1/4W
R711	1-249-429-11	CARBON 10K 5% 1/4W	R797	1-249-432-11	CARBON 18K 5% 1/4W
R712	1-249-426-11	CARBON 5.6K 5% 1/4W	R798	1-249-421-11	CARBON 2.2K 5% 1/4W
R713	1-249-430-11	CARBON 12K 5% 1/4W	R799	1-249-429-11	CARBON 10K 5% 1/4W
R714	1-249-429-11	CARBON 10K 5% 1/4W	R801	1-249-417-11	CARBON 1K 5% 1/4W
R715	1-247-864-11	CARBON 24K 5% 1/4W	R802	1-249-438-11	CARBON 56K 5% 1/4W
R716	1-249-441-11	CARBON 100K 5% 1/4W	R803	1-249-413-11	CARBON 470 5% 1/4W
R717	1-249-429-11	CARBON 10K 5% 1/4W	R804	1-249-438-11	CARBON 56K 5% 1/4W
R721	1-249-423-11	CARBON 3.3K 5% 1/4W	R805	1-249-389-11	CARBON 4.7 5% 1/4W
R722	1-249-438-11	(AEP,WG,IT,EE)...CARBON 56K 5% 1/4W	R826	1-249-417-11	CARBON 1K 5% 1/4W
R722	1-249-431-11	(US,Canadian,F,FA,AUS) ...CARBON 15K 5% 1/4W	R851	1-249-417-11	CARBON 1K 5% 1/4W
R723	1-249-433-11	(AEP,WG,IT,EE)...CARBON 22K 5% 1/4W	R852	1-249-438-11	CARBON 56K 5% 1/4W
R724	1-249-437-11	(AEP,WG,IT,EE)...CARBON 47K 5% 1/4W	R853	1-249-413-11	CARBON 470 5% 1/4W
R725	1-249-427-11	CARBON 6.8K 5% 1/4W	R854	1-249-438-11	CARBON 56K 5% 1/4W
R726	1-249-437-11	CARBON 47K 5% 1/4W	R855	1-249-389-11	CARBON 4.7 5% 1/4W
R727	1-249-388-11	CARBON 3.9 5% 1/4W	R871	1-249-429-11	CARBON 10K 5% 1/4W
R729	1-249-417-11	CARBON 1K 5% 1/4W	R872	1-249-437-11	CARBON 47K 5% 1/4W
			R873	1-249-429-11	CARBON 10K 5% 1/4W
			R874	1-247-883-00	CARBON 150K 5% 1/4W

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

Note:
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
R875	1-249-421-11	CARBON 2.2K 5% 1/4W
R876	1-249-421-11	CARBON 2.2K 5% 1/4W
R877 Δ	1-212-881-11	FUSIBLE 100 5% 1/4W F
R878	1-249-417-11	CARBON 1K 5% 1/4W
R879	1-249-417-11	CARBON 1K 5% 1/4W
R880 Δ	1-212-881-11	FUSIBLE 100 5% 1/4W F
R881	1-249-421-11	CARBON 2.2K 5% 1/4W
R882	1-249-421-11	CARBON 2.2K 5% 1/4W
R883 Δ	1-212-881-11	FUSIBLE 100 5% 1/4W F
R901	1-249-419-11	CARBON 1.5K 5% 1/4W
R902	1-249-429-11	CARBON 10K 5% 1/4W
R903	1-249-421-11	CARBON 2.2K 5% 1/4W
R904	1-249-433-11	CARBON 22K 5% 1/4W
R905 Δ	1-212-934-00	FUSIBLE 1 5% 1/2W F
R906 Δ	1-212-934-00	FUSIBLE 1 5% 1/2W F
R907 Δ	1-212-934-00	FUSIBLE 1 5% 1/2W F
R908	1-249-425-11	CARBON 4.7K 5% 1/4W
R909	1-249-433-11	CARBON 22K 5% 1/4W
R910	1-247-903-00	CARBON 1M 5% 1/4W
R911	1-249-405-11	CARBON 100 5% 1/4W
R912	1-249-432-11	CARBON 18K 5% 1/4W
R913	1-249-432-11	CARBON 18K 5% 1/4W
R914	1-247-842-11	CARBON 3K 5% 1/4W
R915	1-249-429-11	CARBON 10K 5% 1/4W
R917	1-249-413-11	CARBON 470 5% 1/4W
R926	1-202-725-00	(US,Canadian)...SOLID 3.3M 10% 1/2W
RV81	1-238-017-11	RES, ADJ, CARBON 22K
RV82	1-238-017-11	RES, ADJ, CARBON 22K
RV101	1-238-016-11	(BD)...RES, ADJ, CARBON 10K
RV102	1-238-016-11	(BD)...RES, ADJ, CARBON 10K
RV406	1-238-865-11	RES, VAR, CARBON (MOTOR) 100K/100K (VOLUME)(INCLUDING VOL LFD)
RV501	1-238-867-11	RES, VAR, SLIDE 250K (12kHz)
RV502	1-238-867-11	RES, VAR, SLIDE 250K (4kHz)
RV503	1-238-867-11	RES, VAR, SLIDE 250K (1kHz)
RV504	1-238-867-11	RES, VAR, SLIDE 250K (400Hz)
RV505	1-238-867-11	RES, VAR, SLIDE 250K (100Hz)
RV551	1-238-867-11	RES, VAR, SLIDE 250K (12kHz)
RV552	1-238-867-11	RES, VAR, SLIDE 250K (4kHz)
RV553	1-238-867-11	RES, VAR, SLIDE 250K (1kHz)
RV554	1-238-867-11	RES, VAR, SLIDE 250K (400Hz)
RV555	1-238-867-11	RES, VAR, SLIDE 250K (100Hz)
RV601	1-238-011-11	RES, ADJ, CARBON 470
RV611	1-238-011-11	RES, ADJ, CARBON 470
RV651	1-238-011-11	RES, ADJ, CARBON 470
RV661	1-238-011-11	RES, ADJ, CARBON 470
RV701	1-238-017-11	RES, ADJ, CARBON 22K
RV721	1-238-019-11	RES, ADJ, CARBON 47K
RV722	1-238-019-11	RES, ADJ, CARBON 47K
RV751	1-238-017-11	RES, ADJ, CARBON 22K
RY601	1-515-614-21	RELAY
S1A	1-572-335-11	(DECK A)...SWITCH, LEAF (CrO2)
S1B	1-572-335-11	(DECK B)...SWITCH, LEAF (CrO2)
S2A	1-571-736-11	(DECK A)...SWITCH, LEAF (MD POWER)
S2B	1-571-736-11	(DECK B)...SWITCH, LEAF (MD POWER)


Ref.No.	Part No.	Description
S3A	1-571-736-11	(DECK A)...SWITCH, LEAF (PLAY)
S3B	1-571-736-11	(DECK B)...SWITCH, LEAF (PLAY)
S4B	1-571-736-11	(DECK B)...SWITCH, LEAF (REC)
S101	1-572-085-11	(BD)...SWITCH, LEAF (LIMIT IN)
S201	1-572-184-11	SWITCH, KEYBOARD (EDIT)
S202	1-572-184-11	SWITCH, KEYBOARD (■)
S203	1-572-184-11	SWITCH, KEYBOARD (▶▶▶)
S204	1-572-184-11	SWITCH, KEYBOARD (▲OPEN/CLOSE)
S205	1-572-184-11	SWITCH, KEYBOARD (▶▶)
S206	1-572-184-11	SWITCH, KEYBOARD (◀◀)
S207	1-572-184-11	SWITCH, KEYBOARD (▶▶)
S208	1-572-184-11	SWITCH, KEYBOARD (◀◀)
S209	1-572-184-11	SWITCH, KEYBOARD (REPEAT)
S210	1-572-184-11	SWITCH, KEYBOARD (CONTINUE)
S211	1-572-184-11	SWITCH, KEYBOARD (SHUFFLE)
S212	1-572-184-11	SWITCH, KEYBOARD (PROGRAM)
S214	1-572-184-11	SWITCH, KEYBOARD (TIME)
S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)
S292	1-571-924-11	SWITCH, LEAF (LOAD IN)
S350	1-553-977-00	SWITCH, SLIDE (DOLBY NR)
S501	1-572-184-11	SWITCH, KEYBOARD (TIMER CONTROL)
S502	1-572-184-11	SWITCH, KEYBOARD (SLEEP)
S503	1-572-184-11	SWITCH, KEYBOARD (TIMER SET)
S504	1-572-184-11	SWITCH, KEYBOARD (CLOCK SET)
S505	1-572-184-11	SWITCH, KEYBOARD (CLOCK DISPLAY)
S506	1-572-184-11	SWITCH, KEYBOARD (POWER)
S507	1-572-184-11	(AEP,WG,IT,EE)...SWITCH, KEYBOARD (DBFB)
S507	1-572-184-11	(US,Canadian,E,EA,AUS) ...SWITCH, KEYBOARD (SAT)
S508	1-572-184-11	SWITCH, KEYBOARD (SURROUND)
S509	1-572-184-11	SWITCH, KEYBOARD (TAPE)
S510	1-572-184-11	SWITCH, KEYBOARD (CD)
S511	1-572-184-11	SWITCH, KEYBOARD (TUNER)
S512	1-572-184-11	(AEP,WG,IT,EE)...SWITCH, KEYBOARD (PHONO)
S512	1-572-184-11	(US,Canadian,E,EA,AUS) ...SWITCH, KEYBOARD (VIDEO/AUX)
S513	1-572-184-11	SWITCH, KEYBOARD (BAND)
S514	1-572-184-11	SWITCH, KEYBOARD (TUNING -)
S515	1-572-184-11	SWITCH, KEYBOARD (TUNING +)
S516	1-572-184-11	SWITCH, KEYBOARD (AUTO)
S517	1-572-184-11	SWITCH, KEYBOARD (MEMORY)
S518	1-572-184-11	SWITCH, KEYBOARD (NEXT ENTER)
S519	1-572-184-11	SWITCH, KEYBOARD (ST/MUTE)
S520	1-572-184-11	SWITCH, KEYBOARD (SHIFT)
S521	1-572-184-11	SWITCH, KEYBOARD (PRESET/TIMER -)
S522	1-572-184-11	SWITCH, KEYBOARD (PRESET/TIMER +)
S701	1-554-088-00	SWITCH, KEYBOARD (SYSTEM RESET)
S721	1-572-185-11	(AEP,WG,IT,EE)...SWITCH, SLIDE (ISS)
S901 Δ	1-571-722-11	(E,EA,AUS)...SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR)
T1	1-402-424-11	(E,EA,AUS)...COIL (ANT,SW3)
T2	1-402-346-11	(E,EA,AUS)...COIL (OSC,SW3)
T721	1-433-347-11	TRANSFORMER, BIAS OSCILLATION
T901 Δ	1-450-055-11	(E,EA,AUS).....TRANSFORMER, POWER
T901 Δ	1-450-056-11	(AEP,WG,IT,EE)...TRANSFORMER, POWER
T901 Δ	1-450-057-11	(US,Canadian).....TRANSFORMER, POWER

Ref.No.	Part No.	Description
TB1	*1-537-138-31	(AEP,WG,IT,EE)...TERMINAL BOARD (ANTENNA)
TB1	1-537-233-11	(US,Canadian,E,EA,AUS) ...TERMINAL BOARD (ANTENNA)
TB801	1-537-238-11	TERMINAL BOARD (SPEAKER)
TP81	*1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P
TP701	*1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P
TP702	*1-568-449-11	(AEP,WG,IT,EE)...HOUSING, CONNECTOR (PC BOARD) 3P
X51	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)
X81	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)
X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)
X251	1-567-908-11	VIBRATOR, CRYSTAL (16.9344MHz)
X501	1-567-821-21	VIBRATOR, CRYSTAL (4.19MHz)
X502	1-527-997-31	VIBRATOR, CRYSTAL (32kHz)

ACCESSORY & PACKING MATERIAL

1-465-343-11	REMOTE COMMANDER (RM-S6)
2-181-754-11	COVER, BATTERY
1-501-374-11	ANTENNA, LOOP
△1-569-007-11	(E)...ADAPTOR, CONVERSION 2P
△1-569-008-11	(EA)...ADAPTOR, CONVERSION 2P
△1-555-074-00	(AUS).....CORD, POWER
△1-555-234-00	(AEP,WG,IT,EA,EE)...CORD, POWER
△1-556-280-00	(E).....CORD, POWER
△1-575-706-00	(US,Canadian).....CORD, POWER
3-751-669-11	(US,Canadian,AEP,E,EA,AUS) ...MANUAL, INSTRUCTION (FH)
3-751-669-41	(AEP,WG,IT)...MANUAL, INSTRUCTION (FH)
3-751-669-51	(EE).....MANUAL, INSTRUCTION (FH)
*4-936-852-01	CUSHION (LOWER)(HCD)
*4-936-853-01	CUSHION (UPPER)(HCD)
*4-936-884-11	(E,EA).....INDIVIDUAL CARTON (FH)
*4-936-885-11	(EXCEPT E,EA)...INDIVIDUAL CARTON (FH)

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

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

HCD-H5

SONY® SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

CORRECTION-1

Correct your service manual as shown below.

: indicates corrected portion.

Page	INCORRECT	CORRECT																								
14	E-F Balance Check Procedure : 1. Connect test point TP (ADJ) and TP (TES) to ground with lead wire.	E-F Balance Check Procedure : 1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.																								
64	<table><thead><tr><th>Ref.No.</th><th>Part No.</th><th>Description</th></tr></thead><tbody><tr><td colspan="3"><u>ACCESSORY & PACKING MATERIAL</u></td></tr><tr><td>i-465-343-11</td><td></td><td>REMOTE COMMANDER (RM-S6)</td></tr><tr><td>2-181-754-11</td><td></td><td>COVER, BATTERY</td></tr></tbody></table>	Ref.No.	Part No.	Description	<u>ACCESSORY & PACKING MATERIAL</u>			i-465-343-11		REMOTE COMMANDER (RM-S6)	2-181-754-11		COVER, BATTERY	<table><thead><tr><th>Ref.No.</th><th>Part No.</th><th>Description</th></tr></thead><tbody><tr><td colspan="3"><u>ACCESSORY & PACKING MATERIAL</u></td></tr><tr><td>i-465-343-11</td><td></td><td>REMOTE COMMANDER (RM-S6)</td></tr><tr><td>2-181-754-01</td><td></td><td>COVER, BATTERY</td></tr></tbody></table>	Ref.No.	Part No.	Description	<u>ACCESSORY & PACKING MATERIAL</u>			i-465-343-11		REMOTE COMMANDER (RM-S6)	2-181-754-01		COVER, BATTERY
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HCD-H5

SONY SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

CORRECTION-2

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT	
	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
50	165	* 3-358-251-01	LEVER (TENSION DETECTION ARM)	* 3-358-286-01	LEVER (MOTOR LEVER)

(RPC-95067)