

# PMC-MD55

## SERVICE MANUAL

Ver 1.1 1999.08

US Model  
Canadian Model  
AEP Model  
UK Model



U.S. and foreign patents licensed from Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	KSM-213CGP
	Optical Pick-up Name	KSS-213C
MD Section	Model Name Using Similar Mechanism	MDS-JB920
	MD Mechanism Type	MDM-5A
	Base Unit Name	MBU-5A
	Optical Pick-up Name	KMS-260A

### SPECIFICATIONS

#### AUDIO POWER SPECIFICATIONS (US only)

##### POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 4-ohm loads, both channels driven from 100 - 10,000 Hz; rated 7 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

Super woofer with 4-ohm loads, driven at 70 Hz; rated 30 W minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

#### Other Specifications

##### CD player section

###### System

Compact disc digital audio system

###### Laser diode properties

Material: GaAlAs

Wave length: 785 nm

Emission duration: Continuous

Laser output: Less than 44.6  $\mu$ W

(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

###### Spindle speed

200 r/min (rpm) to 500 r/min (rpm) (CLV)

###### Number of programme positions

2

###### Frequency response

20 - 20,000 Hz +1/-1 dB

###### Wow and flutter

Below measurable limit

##### Radio section

###### Frequency range

FM: 87.6 - 108 MHz (US, Canadian)

87.5 - 108 MHz (AEP, UK)

AM: 530 - 1,710 kHz (US, Canadian)

MW: 531 - 1,602 kHz (AEP, UK)

LW: 153 - 279 kHz (AEP, UK)

###### Antennas

FM: Lead antenna

AM (MW/LW): Loop antenna

##### MD player section

###### System

Minidisc digital audio system

###### Disc

MiniDisc

###### Laser diode properties

Material: GaAlAs

Wave length: 785 nm

Emission duration: Continuous

Laser output: Less than 44.6  $\mu$ W

(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

###### Recording/playback time

Maximum 74 minutes (with MDW-74)

###### Revolutions

400 rpm to 900 rpm (CLV)

###### Error correction

Advanced Cross Interleave Reed Solomon Code (ACIRC)

###### Sampling frequency

44.1 kHz

###### Coding

Adaptive Transform Acoustic Coding (ATRAC)

###### Modulation system

EFM (Eight-to-Fourteen Modulation)

— Continued on next page —

## PERSONAL MINIDISC SYSTEM

# SONY®



Number of programme positions  
 2 stereo programme positions  
 Frequency response  
 20 - 20,000 Hz +1/-2 dB  
 Signal-to-noise ratio  
 Over 80 dB (during playback)  
 Wow and flutter  
 Below measurable limit

### Super woofer

Speaker  
 Woofer: 10 cm (4 in.) dia., 4.0 ohms, cone type  
 Power output  
 30 W (at 100 Hz)  
 Power consumption  
 AC 28 W  
 Dimensions (incl. projecting parts)  
 Approx. 172 × 181 × 231 mm (w/h/d)  
 (6 7/8 × 7 1/4 × 9 1/8 inches)  
 Mass  
 Approx. 3.6 kg (7 lb. 15 oz.)

### General

Speaker  
 Full-range : 8 cm (3 in.) dia., 4 ohms cone type (2)  
 Inputs  
 LINE IN (stereo minijack): Sensitivity 436 mV/  
 870 mV  
 Outputs  
 Headphones jack (stereo minijack) (1):  
 For 32 ohms impedance headphones  
 Maximum power output  
 7 W+7 W  
 Power requirements  
 For personal minidisc system:  
 120 V AC, 60 Hz (US, Canadian)  
 230 V AC, 50 Hz (AEP, UK)  
 For remote controller:  
 3 V DC, 2 size AA (R6) batteries  
 Power consumption  
 34 W  
 Dimensions (incl. projecting parts)  
 Player: approx. 152 × 189 × 235 mm (w/h/d)  
 (6 × 7 1/2 × 9 3/8 inches)  
 Left speaker: approx. 139 × 181 × 235 mm  
 (w/h/d) (5 1/2 × 7 1/4 × 9 3/8 inches)  
 Right speaker: approx. 139 × 181 × 235 mm  
 (w/h/d) (5 1/2 × 7 1/4 × 9 3/8 inches)  
 Mass  
 Player: approx. 2.9 kg (6 lb. 6 oz.)  
 Left speaker: approx. 2.8 kg (6 lb. 3 oz.)  
 Right speaker: approx. 1.4 kg (3 lb. 1 oz.)  
 Supplied accessories  
 Remote controller (1)  
 FM lead antenna (1)  
 AM (MW/LW) loop antenna (1)  
 Audio connecting cord (2)

Design and specifications are subject to change without notice.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  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.

### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  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.

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# SECTION 1 SERVICING NOTES

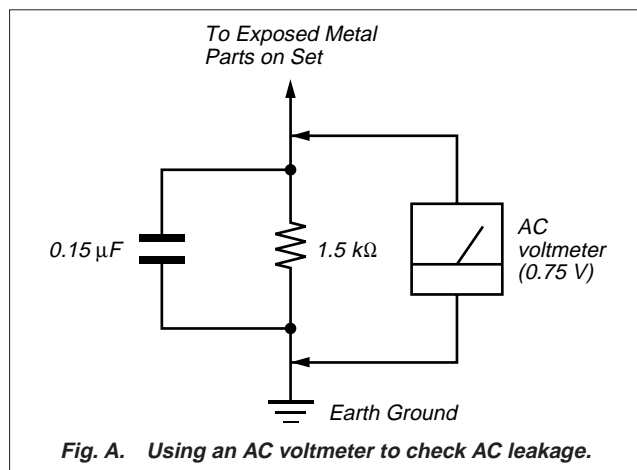
## SAFETY CHECK-OUT

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.

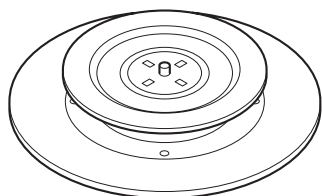
1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means 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 2 V AC range are suitable. (See Fig. A)



## CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

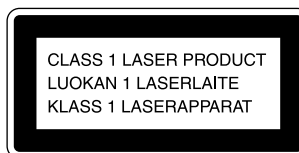
- Code number of Chuck Plate Jig: X-4918-255-1



## CAUTION

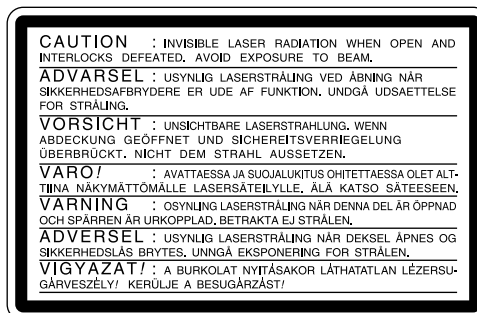
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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



Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.



## 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.

## Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

## Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

## JIG FOR CHECKING BD BOARD WAVEFORM

The special jig (J-2501-149-A) is useful for checking the waveform of the BD board. The names of terminals and the checking items to be performed are shown as follows.

GND : Ground

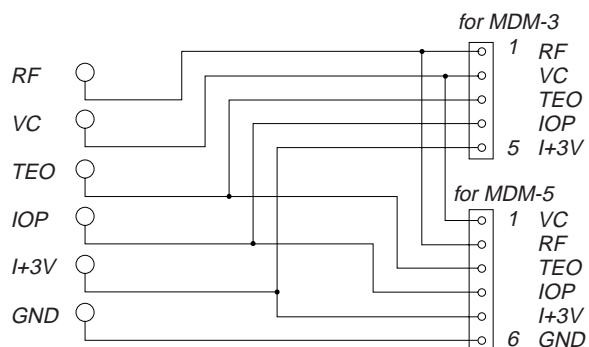
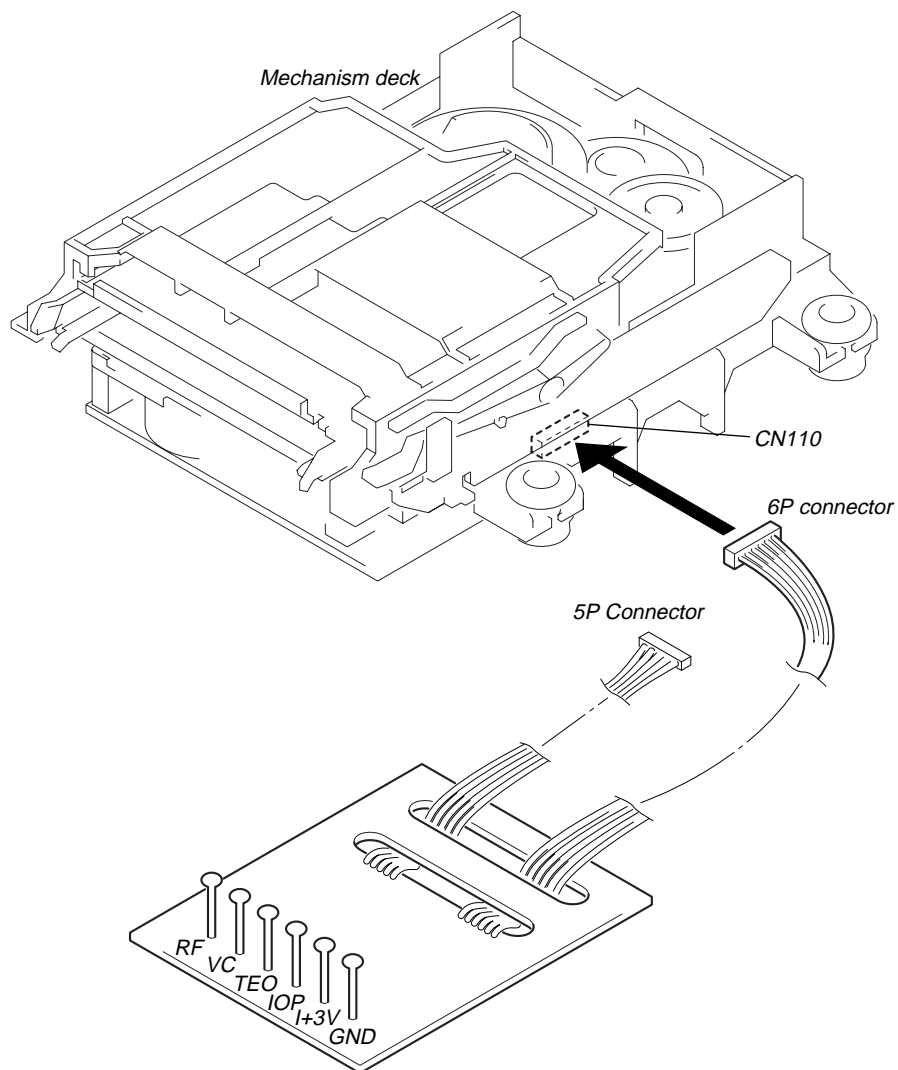
I+3V : For measuring IOP (Check the deterioration of the optical pick-up laser)

IOP : For measuring IOP (Check the deterioration of the optical pick-up laser)

TEO : TRK error signal (Traverse adjustment)

VC : Reference level for checking the signal

RF : RF signal (Check jitter)



## CHECKS PRIOR TO PARTS REPLACEMENT AND ADJUSTMENTS (for MD Section)

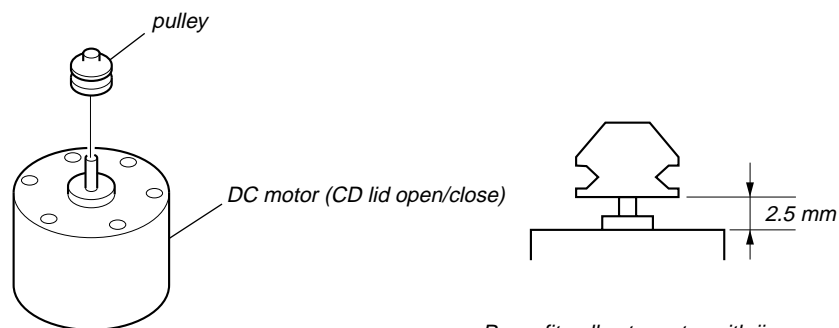
Before performing repairs, perform the following checks to determine the faulty locations up to a certain extent. Details of the procedures are described in "5 Electrical Adjustments".

	Criteria for Determination (Unsatisfactory if specified value is not satisfied)	Measure if unsatisfactory:
Laser power check (6-1 : See page 23)	<ul style="list-style-type: none"> <li>0.9 mW power Specified value : 0.84 to 0.92 mW</li> <li>7.0 mW power Specified value : 6.8 to 7.2 mW</li> </ul>	<ul style="list-style-type: none"> <li>Clean the optical pick-up</li> <li>Adjust again</li> <li>Replace the optical pick-up</li> </ul>
	IOP (at 7mW) <ul style="list-style-type: none"> <li>Labeled on the optical pickup IOP value <math>\pm</math> 10%</li> </ul>	<ul style="list-style-type: none"> <li>Replace the optical pick-up</li> </ul>
Focus bias check (6-2 : See page 23)	<ul style="list-style-type: none"> <li>Error rate check Specified value :               <ol style="list-style-type: none"> <li>For points A and B C1 error : About 200 ADER : Below 2</li> <li>For point C C1 error : Below 50 ADER : Below 2</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>Replace the optical pick-up</li> </ul>
C PLAY check (6-3 : See page 23)	<ul style="list-style-type: none"> <li>Error rate check Specified value :               <ol style="list-style-type: none"> <li>When using test disc (MDW-74/AU-1) C1 error : Below 80 ADER : Below 2</li> <li>When using check disc (TDYS-1) C1 error : Below 50</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>Replace the optical pick-up</li> </ul>
Self-recording/playback check (6-4 : See page 23)	<ul style="list-style-type: none"> <li>CPLAY error rate check Specified value : C1 error : Below 80 ADER : Below 2</li> </ul>	If always unsatisfactory: <ul style="list-style-type: none"> <li>Replace the overwrite head</li> <li>Check for disconnection of the circuits around the overwrite head</li> </ul>
		If occasionally unsatisfactory: <ul style="list-style-type: none"> <li>Check if the overwrite head is distorted</li> <li>Check the mechanism around the sled</li> </ul>

### Note:

The criteria for determination above is intended merely to determine if satisfactory or not, and does not serve as the specified value for adjustments. When performing adjustments, use the specified values for adjustments.

### NOTE ON MOUNTING PULLEY



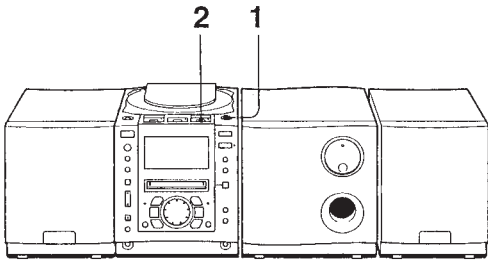
Press fit pulley to motor with jig.

# SECTION 2 GENERAL

This section is extracted from instruction manual.

## Basic Operations

### Playing a CD



For hookup instructions, see pages 53 - 58.

**1** **CD OPEN/CLOSE**

Press **▲ CD OPEN/CLOSE** (direct power-on) and place the CD on the CD compartment.

With the label side up

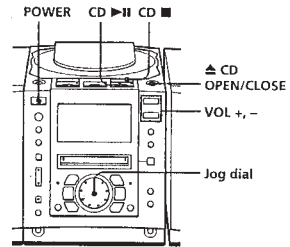
**2**

Press **CD ►►** (CD ►► on the remote).

The lid of the CD compartment closes and the player plays all the tracks once.

Position pointer    Track number    Playing time

Use these buttons for additional operations.



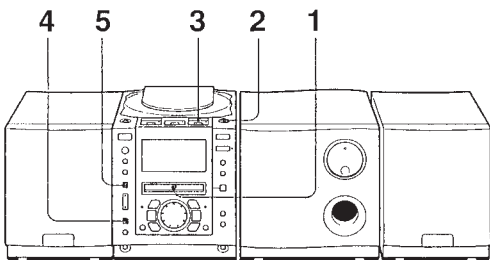
To	Do this
adjust the volume	Press VOL +, -
stop playback	Press CD ■
pause playback	Press CD ►► (CD ►► on the remote). Press the button again to resume play after pause.
go to the next track	Turn the jog dial clockwise. (On the remote, press ►►.)
go back to the previous track	Turn the jog dial counterclockwise. (On the remote, press ◀◀.)
remove the CD	Press ▲ CD OPEN/CLOSE.
turn on/off the player	Press POWER.

#### Tips

- Next time you want to listen to a CD, just press **CD ►►**. The player turns on automatically and starts playing the CD.
- **What is the position pointer in the display?** It shows about where on the CD track the player is playing.
- When opening or closing the lid of the CD compartment, be careful not to pinch your fingers, etc., between the lid and the player. If pinched, press **▲ CD OPEN/CLOSE** again to open the lid.

Basic Operations

### Recording a whole CD (Synchronized recording)



For hookup instructions, see pages 53 - 58.

**1** Insert a recordable MD (direct power-on).

With the label side up

Insert in the direction of the arrow

**Display**

After "TOC Reading" is displayed, the disc name will be displayed if it is labeled.

**2** **CD OPEN/CLOSE**

Press **▲ CD OPEN/CLOSE** and place the CD on the CD compartment.

Press **▲ CD OPEN/CLOSE** again to close the CD compartment.

With the label side up

**3**

Press **CD ■**.

**4** **HIGH SPEED**

To record at high speed, press **HIGH SPEED**. The indicator on the button lights up.

To record at normal speed, skip this step.

**5** **SYNCHRO REC CD ►► MD**

Press **SYNCHRO REC CD ►► MD**. The player starts recording automatically.

If the MD has any previous recording, recording will be made from the last recorded position.

Position pointer (showing playing position on the CD and recording position on the MD)

Track number of MD    Remaining recording time of MD

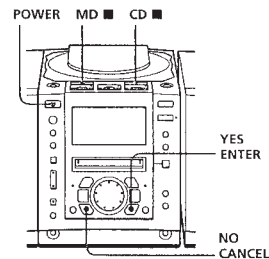
#### Notes

- After you stop recording, do not disconnect the AC power cord or move the player while "TOC EDIT" is flashing in the display. If you do so, recording may not be done properly.
- When you record a whole CD, you cannot pause recording.

#### Tips

- Adjusting the volume or the audio emphasis (page 62) will not affect the recording level. Keep the volume at a moderate level so as to prevent the sound from skipping.
- To record over the previous recording, see page 31.
- Once the clock is set, the recording date and time are stamped automatically (page 46).
- You can label an MD or a track during recording (page 42).

Use these buttons for additional operations



To	Press
stop recording	MD ■ or CD ■
turn on/off the player	POWER

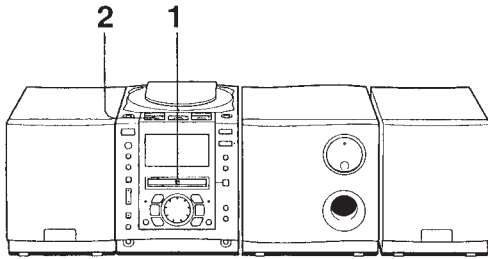
If "CD>MD OK?" alternates with time display  
There is not enough space on the MD to record the whole CD.

If it is all right to record as much as possible and cancel recording of some tracks, press **YES**•ENTER. To stop recording, press **NO**•CANCEL.

If any other messages are displayed, see page 72.

Basic Operations

## Playing an MD



For hookup instructions, see pages 53 - 58.

**1** Insert the MD (direct power-on). **Display**

With the label side up

Insert in the direction of the arrow

After "TOC Reading" is displayed, the disc name will be displayed if it is labeled.

**2** Press MD ► (MD ► on the remote). The player plays all the tracks once.

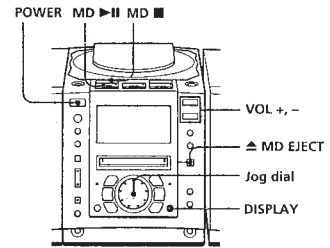
Track name is displayed if it is labeled.

Track number    Playing time

**Display**

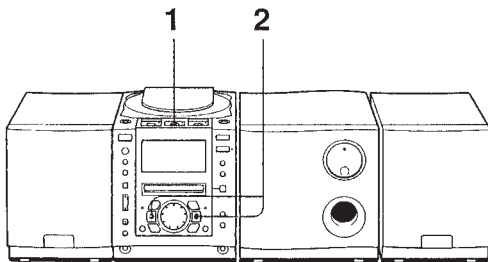
**Tip**  
Next time you want to listen to an MD, just press MD ►. The player turns on automatically and starts playing the MD.

Use these buttons for additional operations



To	Do this
adjust the volume	Press VOL +, -
stop playback	Press MD ■.
pause playback	Press MD ► (MD ► on the remote). Press the button again to resume play after pause.
go to the next track	Turn the jog dial clockwise. (On the remote, press ►.)
go back to the previous track	Turn the jog dial counterclockwise. (On the remote, press ◀.)
remove the MD	Press ▲ MD EJECT.
turn on/off the player	Press POWER.
check the playing position in the display using the position pointer	Press DISPLAY.

## Listening to the radio



For hookup instructions, see pages 53 - 58.

**1** Press RADIO BAND until the band you want appears in the display (direct power-on). **Display**

"FM" or "AM (MW/LW)" appears

**Display**

**2** Hold down TUNE + or TUNE - until the frequency digits begin to change in the display. The player automatically scans the radio frequencies and stops when it finds a clear station. If you can't tune in a station, press TUNE + or TUNE - repeatedly to change the frequency step by step.

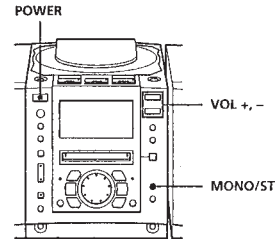
Indicates an FM stereo broadcast

**Display**

**Tips**

- If the FM broadcast is noisy, press MONO/ST (MODE on the remote) until "Mono" appears in the display and radio will play in monaural.
- Next time you want to listen to the radio, just press RADIO BAND. The player turns on automatically and starts playing the previous station.

Use these buttons for additional operations



To	Press
adjust the volume	VOL +, -
turn on/off the radio	POWER

**To improve broadcast reception**

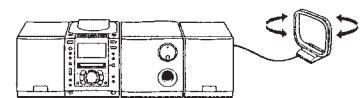
### FM:

Connect the supplied FM lead antenna.

If the FM broadcast is still noisy, disconnect the FM lead antenna and connect the FM outdoor antenna (not supplied) (see page 58).

### AM (MW/LW):

Keep the AM (MW/LW) loop antenna as far as possible from the player and reorient it.



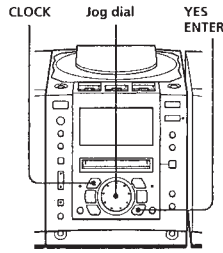
If the broadcast is still noisy, connect the external antenna (page 58).

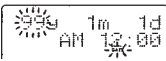
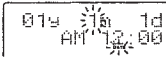
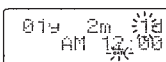
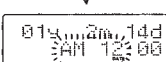
## Setting the clock

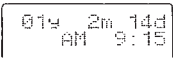
"- - y - - m - - d" and "- : - -" indications appear in the display until you set the clock.

Once the clock is set, the recording date and time are stamped automatically (pages 7, 26 and 28).

- Tips**
- The time display system of this player is the 12-hour system. (US, Canadian) or 24-hour system (AEP, UK).
  - You can set the clock of this player any time, no matter whether power is on or off.



- Press and hold **CLOCK** until the year digits flash.
 
- Set the date.
  - Turn the jog dial to set the year and press **YES•ENTER**.
 
  - Turn the jog dial to set the month and press **YES•ENTER**.
 
  - Turn the jog dial to set the day and press **YES•ENTER**.
 
- Set the time.
  - Turn the jog dial to set the hour and press **YES•ENTER**.
  - Turn the jog dial to set the minutes.

- Press **YES•ENTER**.
 

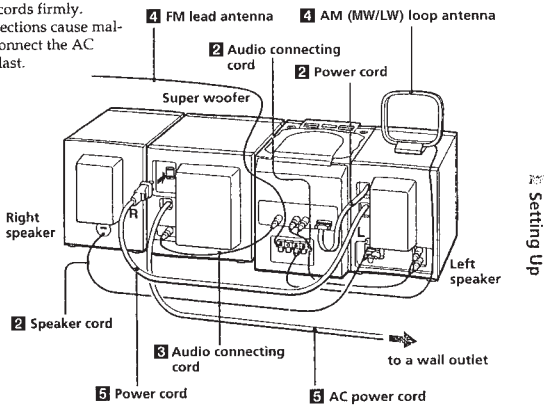
The clock starts from 00 seconds.

**To display the time**  
Press **CLOCK**. To go back to the previous display, press **CLOCK** again. When the power is turned off, the time indication is displayed.

## Setting Up

### Hooking up the system

According to the illustrations, connect the cords firmly. Wrong connections cause malfunctions. Connect the AC power cord last.



**Note**  
Be sure to turn off the power of the player before connecting/disconnecting the AC power cord.

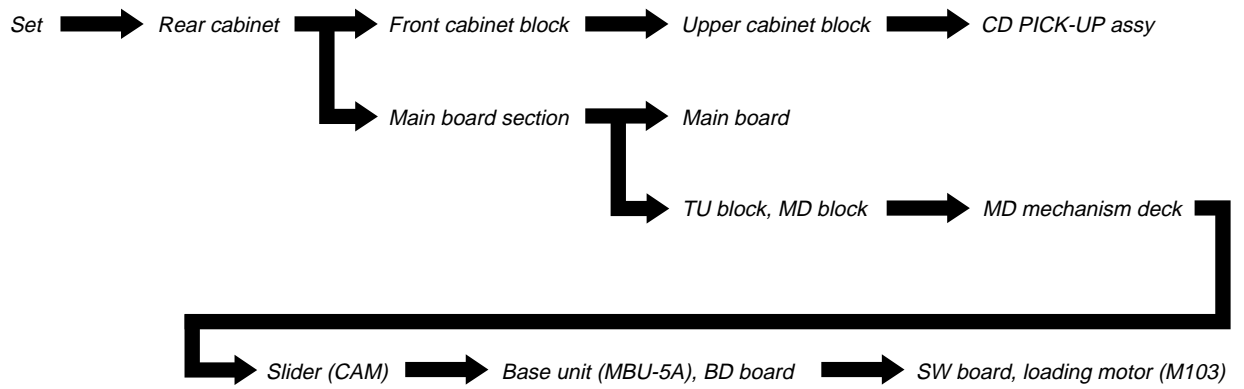
- Arranging the super woofer and speakers**  
Leave at least a small space between the player, super woofer, and speakers. If you do not do this, vibration from the super woofer may cause the sound to skip.

continued



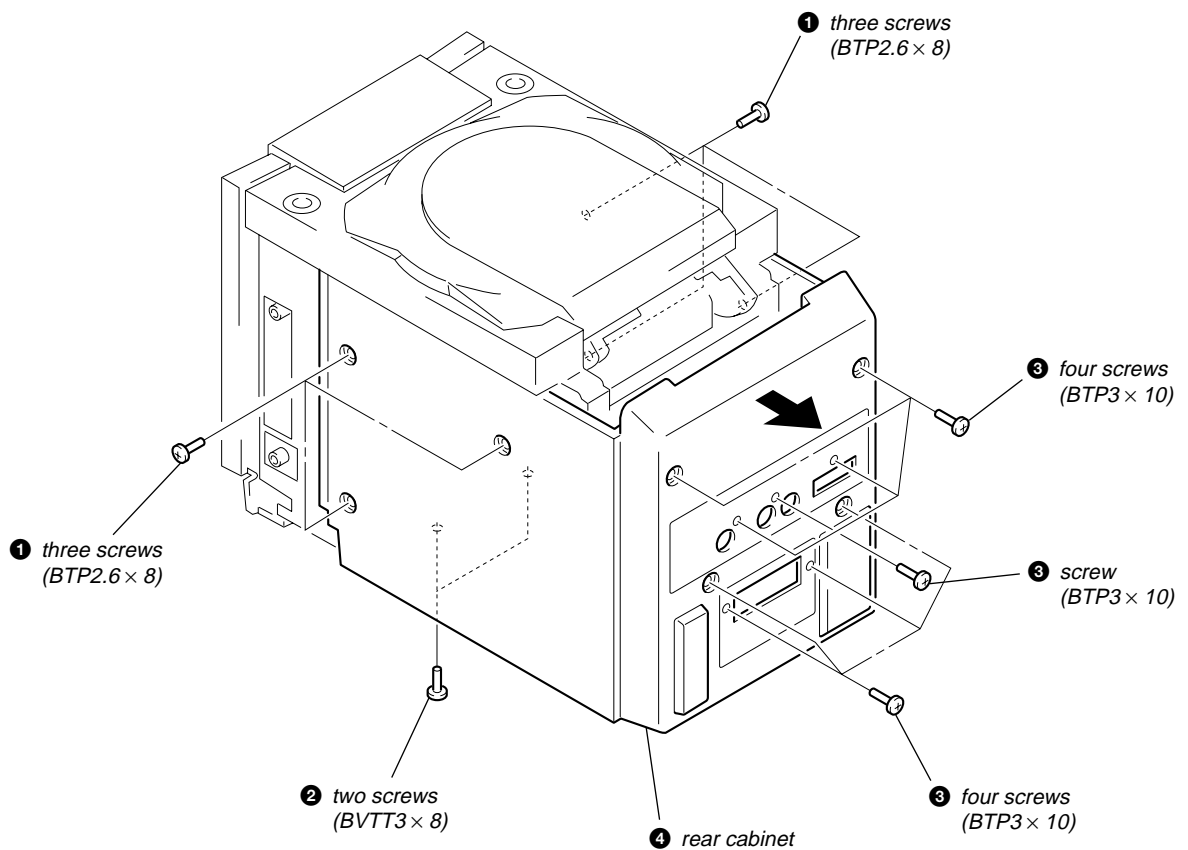
## SECTION 3 DISASSEMBLY

- This set can be disassembled in the order shown below.

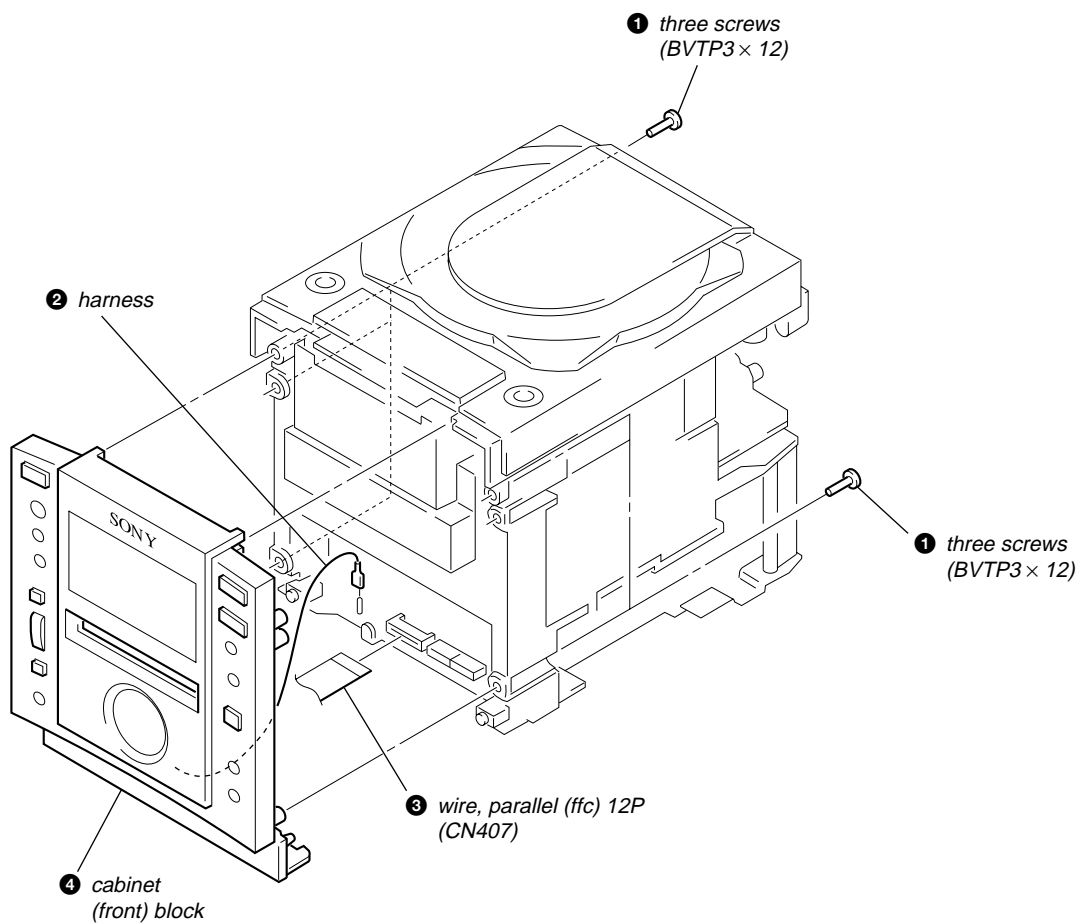


**Note:** Follow the disassembly procedure in the numerical order given.

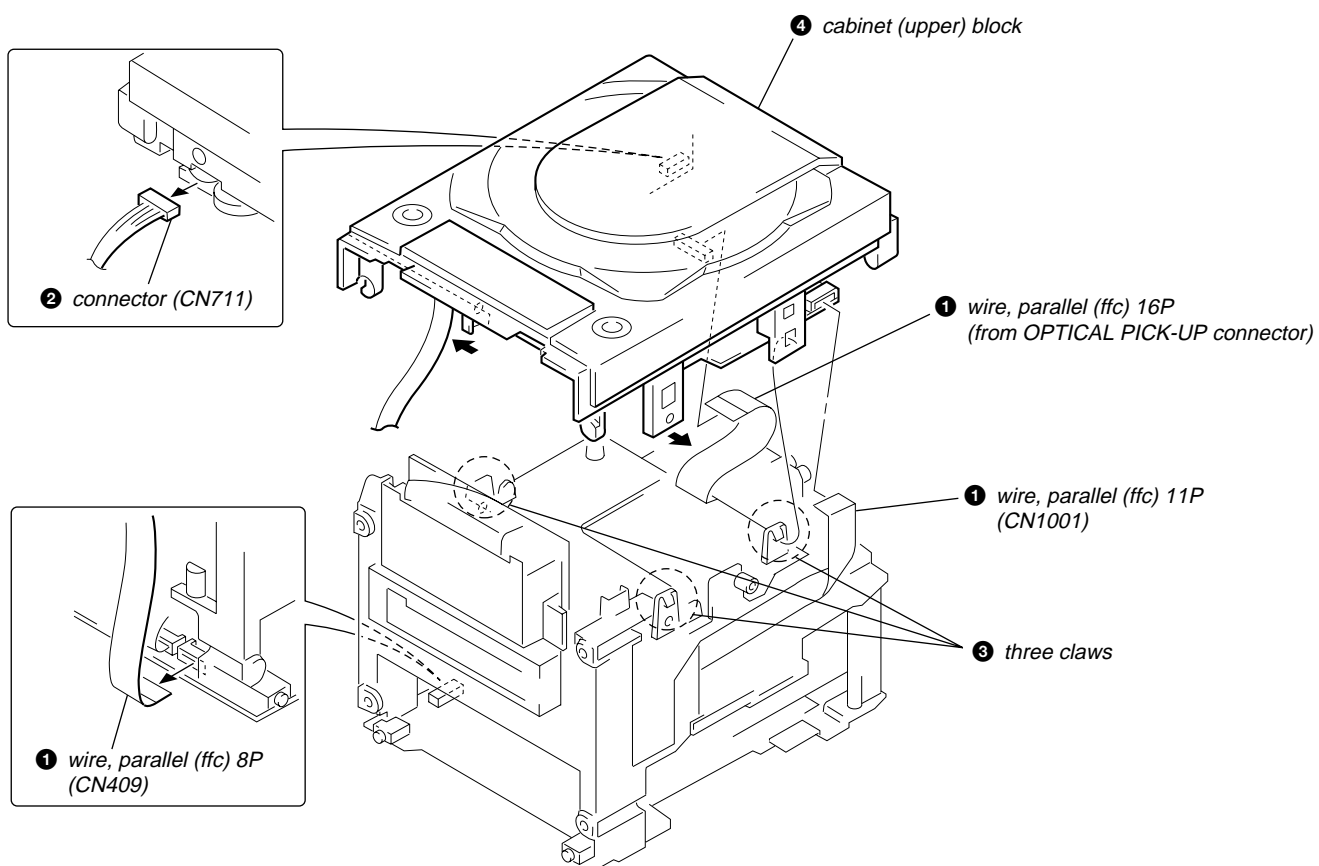
### REAR CABINET



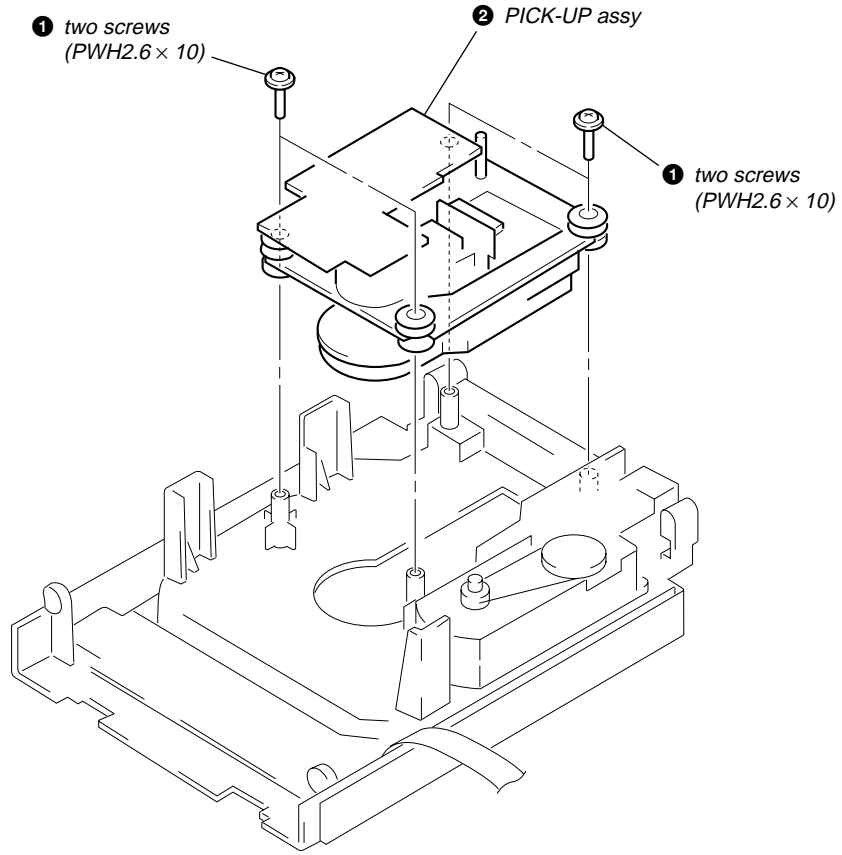
## FRONT CABINET BLOCK



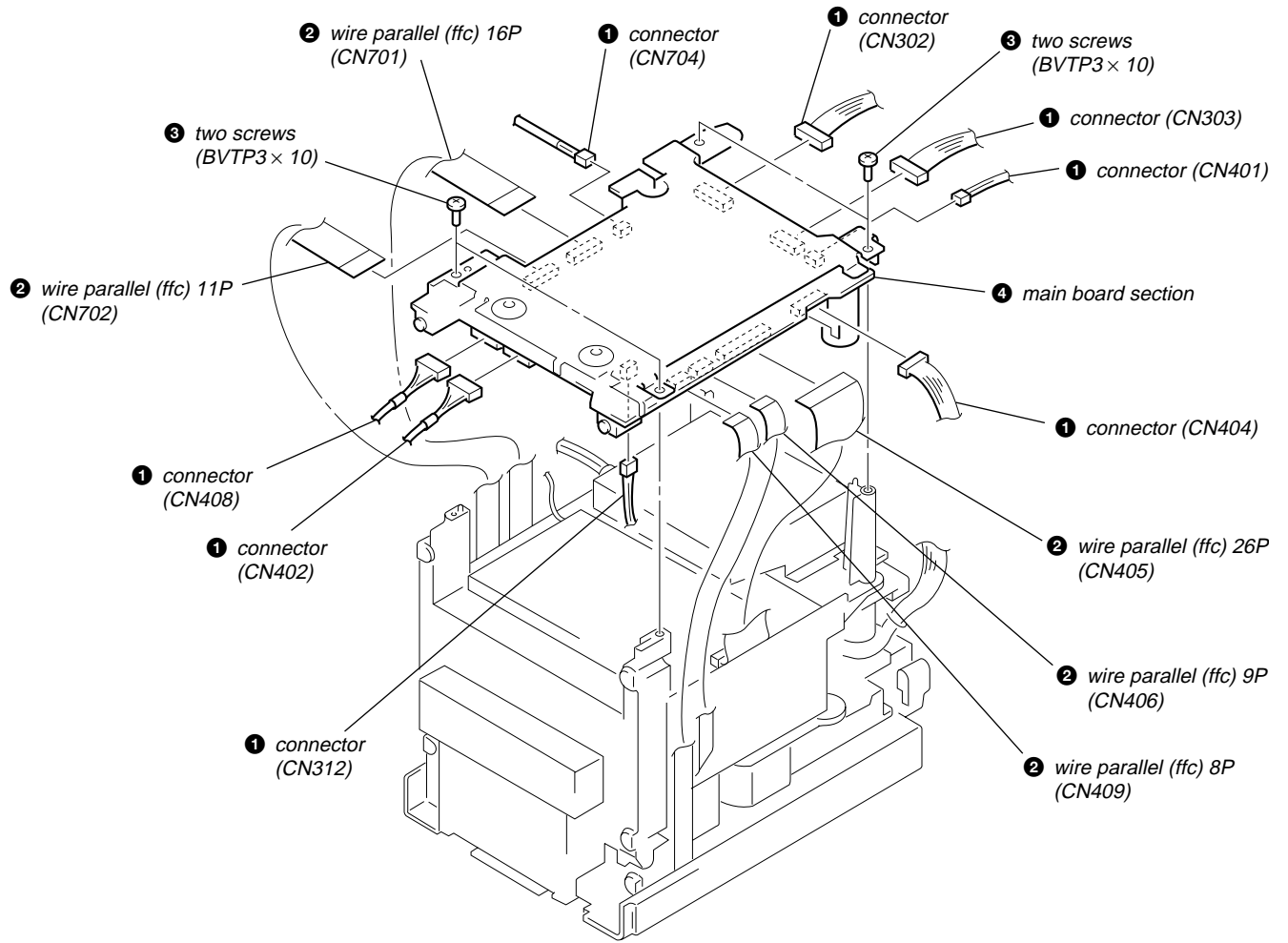
## UPPER CABINET BLOCK



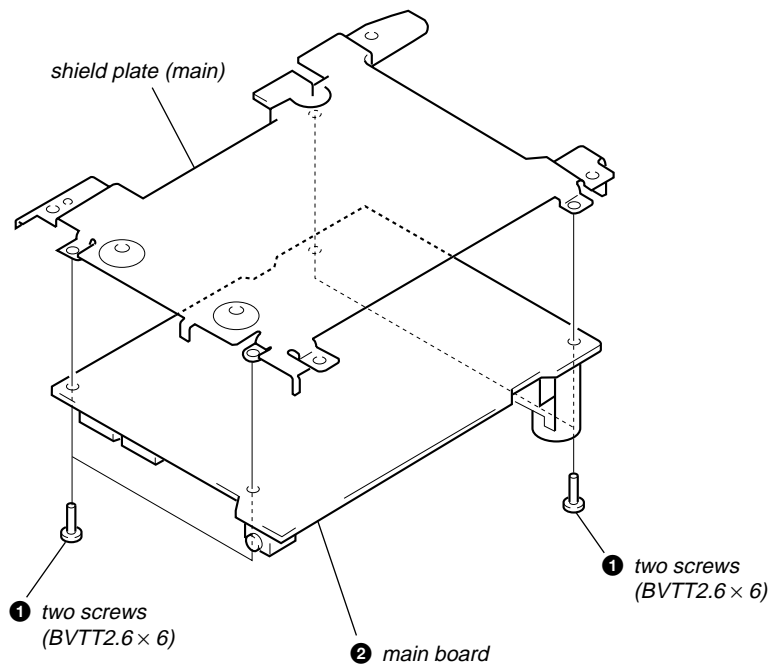
## CD PICK-UP ASSY



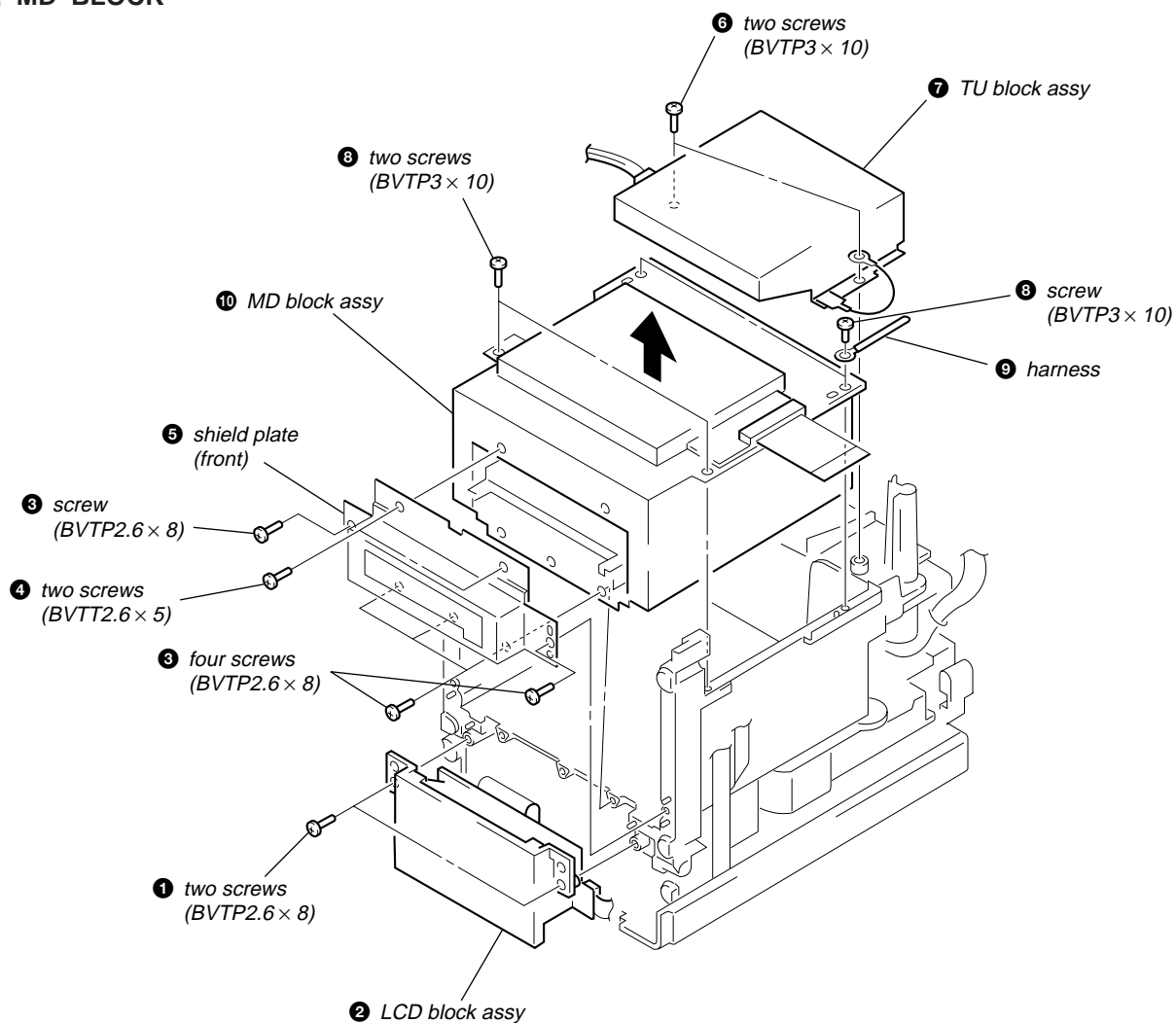
## MAIN BOARD SECTION



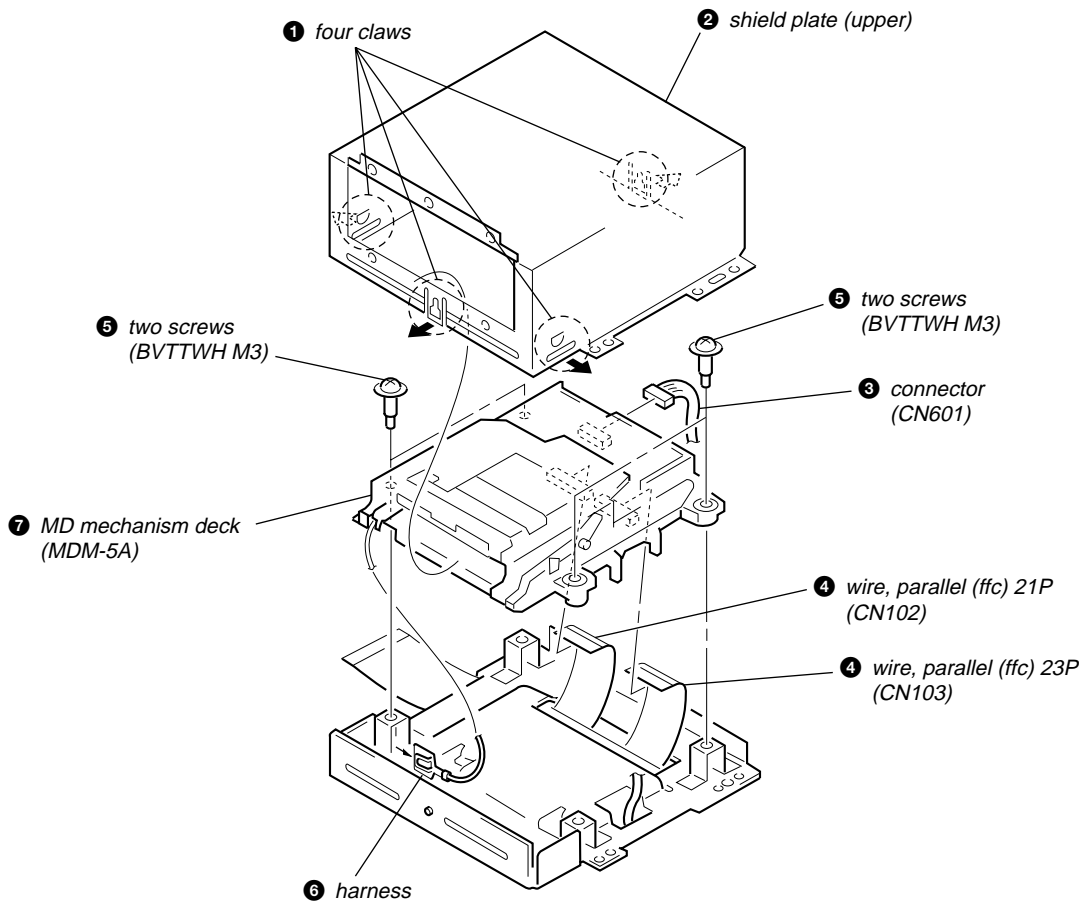
## MAIN BOARD



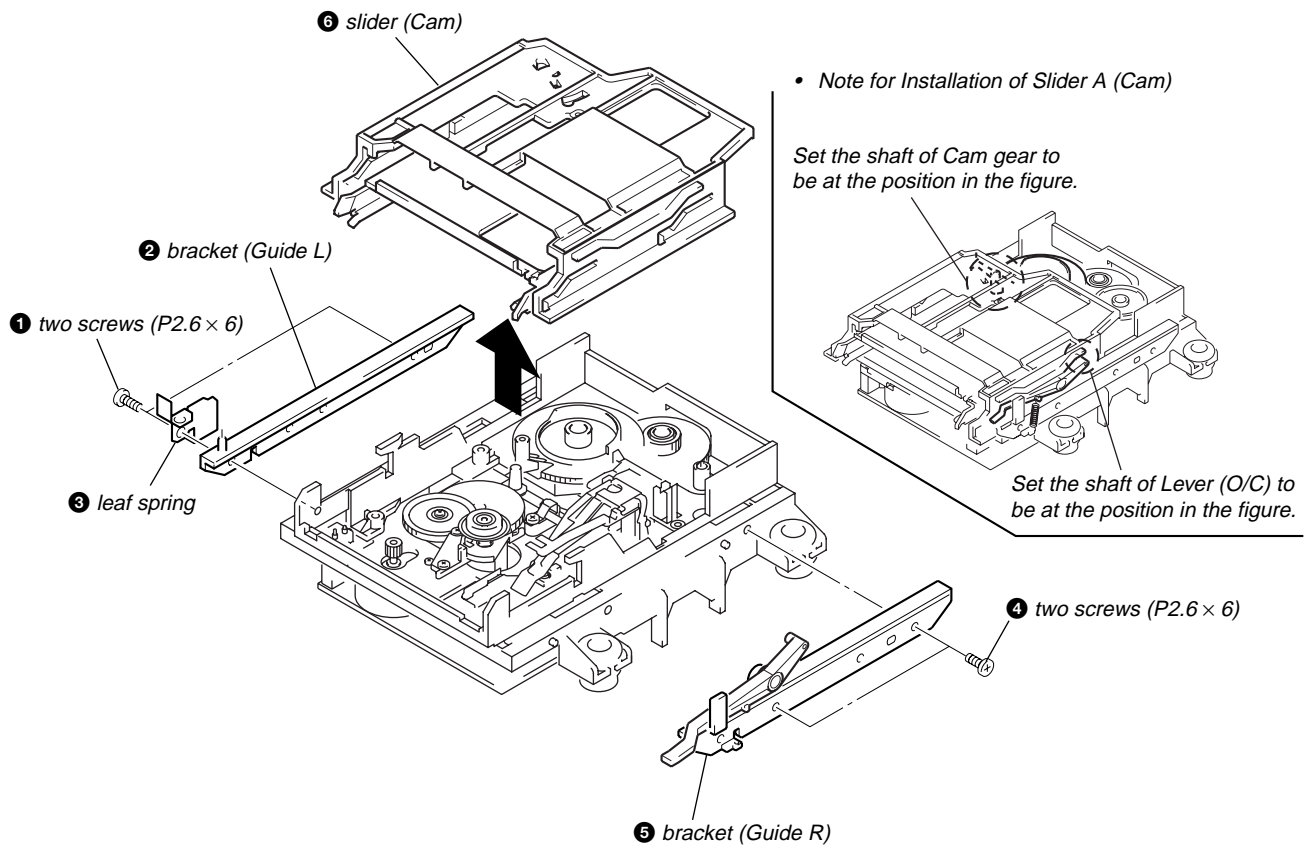
## TU BLOCK, MD BLOCK



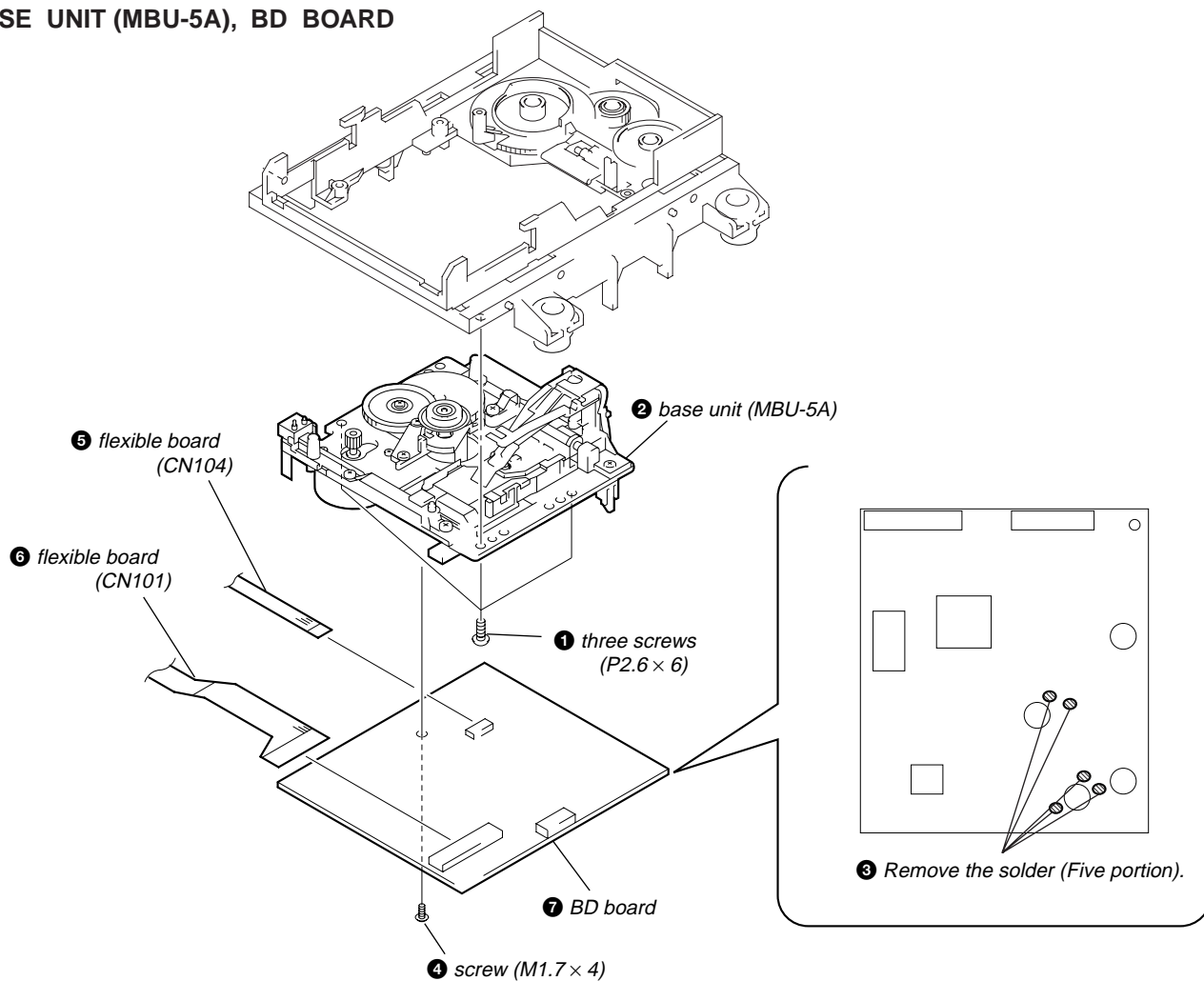
## MD MECHANISM DECK



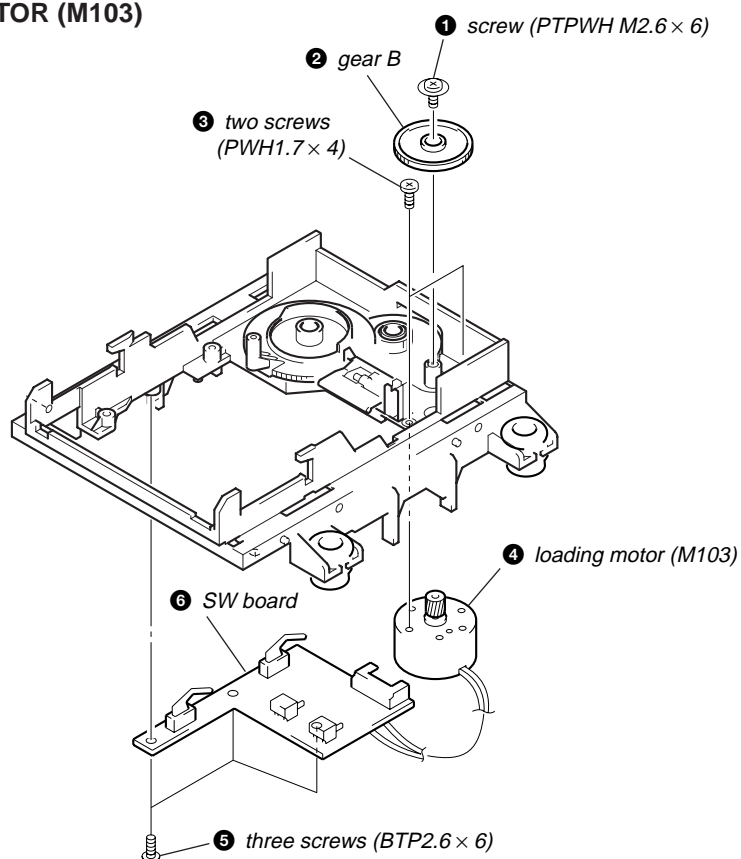
## SLIDER (CAM)



## BASE UNIT (MBU-5A), BD BOARD



## SW BOARD, LOADING MOTOR (M103)



## SECTION 4 TEST MODE

Refer to “5. ELECTRICAL ADJUSTMENT” for the test mode of CD section.

### MD SECTION

#### 1. PRECAUTIONS FOR USE OF TEST MODE

- As loading related operations will be performed regardless of the test mode operations being performed, be sure to check that the disc is stopped before setting and removing it.  
Even if the **MD EJECT** button is pressed while the disc is rotating during continuous playback, continuous recording, etc., the disc will not stop rotating.  
Therefore, it will be ejected while rotating.  
Be sure to press the **MD EJECT** button after pressing the **NO, CANCEL** button and the rotation of disc is stopped.

#### 1-1. Recording laser emission mode and operating buttons

- Continuous recording mode (CREC MODE)
- Laser power check mode (LDPWR CHECK)
- Laser power adjustment mode (LDPWR ADJUST)
- When pressing the **REC** button.

#### 2. SETTING THE TEST MODE

- Set to standby state.
- While pressing the both **BASS/TREBLE** and **EDIT** buttons, press the button **▶▶, MD** → **□(MD)** → **▶▶, MD** → **□(MD)**.
- Release the both **BASS/TREBLE** and **EDIT** buttons to enter the MD test mode.

#### 3. RELEASING THE TEST MODE

Press the **POWER** button to turn the power OFF, or press the **RESET** (bottom of the player unit) switch.

#### 4. BASIC OPERATIONS OF THE TEST MODE

All operations are performed using the JOG dial, **YES, ENTER** button, and **NO, CANCEL** button.  
The functions of these buttons are as follows.

Function name	Function
JOG dial	Changes parameters and modes
YES, ENTER button	Proceeds onto the next step. Finalizes input.
NO, CANCEL button	Returns to previous step. Stops operations.

## 5. SELECTING THE TEST MODE

There are 9 types of test modes as shown below. The mode can be switched by turning the JOG dial. After selecting the mode to be used, press the **[YES, ENTER]** button.

Display	Contents
TEMP ADJUST	Temperature compensation offset adjustment
LDPWR ADJUST	Laser power adjustment
LDPWR CHECK	Laser power check
EFBAL ADJUST	EF balance adjustment
FBIAS ADJUST	Focus bias adjustment
FBIAS CHECK	Focus bias check
CPLAY MODE	Continuous playback mode
CREC MODE	Continuous recording mode
EEP MODE	Non-volatile memory control

- For details of each adjustment mode, refer to “5. Electrical Adjustments”.
- If a different mode has been selected by mistake, press the **[NO, CANCEL]** button to release that mode.
- EEP MODE is not used for servicing and therefore is not described in detail. If this mode is sets accidentally, press the **[NO, CANCEL]** button to release the mode immediately. Be especially careful this mode will overwrite the non-volatile memory and reset it, and as a result, the unit will not operate normally.



### 5-1. Operating the Continuous Playback Mode

- Entering the continuous playback mode
  - Set the disc in the unit. (Whichever recordable discs or discs for playback only are available)
  - Turn the JOG dial and display "CPLAY MODE".
  - Press the **[YES, ENTER]** button to change the display to "CPLAY MID".
  - When access completes, the display changes to "C1 = [ ] AD = [ ]".  
**Note:** The numbers "[ ]" displayed show you error rates and ADER.
- Changing the parts to be played back
  - Press the **[YES, ENTER]** button during continuous playback to change the display as below.



When pressed another time, the parts to be played back can be moved.

- When access completes, the display changes to "C1 = [ ] AD = [ ]".  
**Note:** The numbers "[ ]" displayed show you error rates and ADER.
- Ending the continuous playback mode
  - Press the **[NO, CANCEL]** button. The display will change to "CPLAY MODE".
  - Press the **[MD EJECT ▲]** button and take out the disc.  
**Note:** The playback start addresses for IN, MID, and OUT are as follows.  
IN : 40h cluster  
MID : 300h cluster  
OUT : 700h cluster

### 5-2. Operating the Continuous Recording Mode (Use only when performing self-recording/palyback check)

- Entering the continuous recording mode
  - Set a recordable disc in the unit.
  - Turn the JOG dial and display "CREC MODE".
  - Press the **[YES, ENTER]** button to change the display to "CREC MID".
  - When access completes, the display changes to "CREC ([ ])" and "**[REC]**" lights up.  
**Note:** The numbers "[ ]" displayed shows you the recording position addresses.
- Changing the parts to be recorded
  - When the **[YES, ENTER]** button is pressed during continuous recording, the display changes as below.



When pressed another time, the parts to be recorded can be changed. "**[REC]**" goes off.

- When access completes, the display changes to "CREC ([ ])" and "**[REC]**" lights up.  
**Note:** The numbers "[ ]" displayed shows you the recording position addresses.
- Ending the continuous recording mode
  - Press the **[NO, CANCEL]** button. The display changes to "CREC MODE" and "**[REC]**" goes off.
  - Press the **[MD EJECT ▲]** button and take out the disc.  
**Note 1:** The recording start addresses for IN, MID, and OUT are as follows.  
IN : 40h cluster  
MID : 300h cluster  
OUT : 700h cluster  
**Note 2:** The **[NO, CANCEL]** button can be used to stop recording anytime.  
**Note 3:** Do not perform continuous recording for long periods of time above 5 minutes.  
**Note 4:** During continuous recording, be careful not to apply vibration.

### 5-3. Non-Volatile Memory Mode (EEP MODE)

This mode reads and writes the contents of the non-volatile memory.

It is not used in servicing. If the unit entered this mode accidentally, press the **[NO, CANCEL]** button immediately to release it.

## 6. FUNCTIONS OF OTHER BUTTONS

Function	Contents
▶▶, MD and EDIT	Sets continuous playback when pressed in the STOP state. When pressed during continuous playback, the tracking servo turns ON/OFF.
□ (MD) and EDIT	Stops continuous playback and continuous recording.
▶▶	The sled moves to the outer circumference only when this is pressed.
◀◀	The sled moves to the inner circumference only when this is pressed.
REC and EDIT	When pressed during continuous playback, REC ON/OFF.
SYNCHRO REC and EDIT	Switches between the pit and groove modes when pressed.
AUTO PRESET and EDIT	When pressed during continuous playback, switches the spindle servo mode (CLV-S ↔ CLV-A).
DISPLAY	Switches the displayed contents each time the button is pressed
MD EJECT ▲	Ejects the disc
POWER or RESET	Releases the test mode

## 7. TEST MODE DISPLAYS

Each time the [DISPLAY] button is pressed, the display changes in the following order.

### 1. Mode display

Displays “TEMP ADJUST”, “CPLAYMODE”, etc.

### 2. Error rate display

Displays the error rate in the following way.

C1 = □□□□ AD = □□

C1 = Indicates the C1 error.

AD = Indicates ADER.

### 3. Address display

The address is displayed as follows. (MO: recordable disc, CD: playback only disc)

Press the [SYNCHRO REC] and [EDIT] buttons simultaneously to switches between the groove display and pit display.

h = □□□□ s = □□□□ (MO pit and CD)

h = □□□□ a = □□□□ (MO groove)

h = Indicates the header address.

s = Indicates the SUBQ address.

a = Indicates the ADIP address.

**Note:** “-” is displayed when servo is not imposed.

### 4. Auto gain display (Not used in servicing)

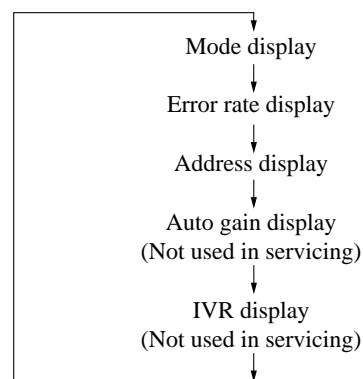
The auto gain is displayed as follows.

AG F = □□ T = □□

### 5. IVR display (Not used in servicing)

The IVR is displayed as follows.

[□□][□□][□□]



## MEANINGS OF OTHER DISPLAYS

Display	Contents	
	When Lit	When Off
SHUF	During continuous playback (CLV: ON)	STOP (CLV: OFF)
PGM	Tracking servo OFF	Tracking servo ON
[REC]	Recording mode ON	Recording mode OFF
TOC EDIT	ABCD adjustment completed	
DIGITAL	Focus and tracking auto gain OK	Blink: Focus auto gain OK, Tracking auto gain NG
TRACK	Pit	Groove
MD disc mark	High reflection	Low reflection
DATE	CLV-S	CLV-A
⊕	CLV LOCK	CLV UNLOCK

## SECTION 5 ELECTRICAL ADJUSTMENTS

### TUNER SECTION

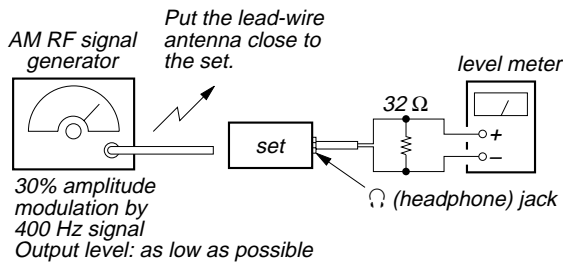
0 dB=1  $\mu$ V

#### [AM (MW/LW)]

##### Setting:

Function : RADIO

BAND switch: AM (MW/LW)



#### [FM] (US, Canadian)

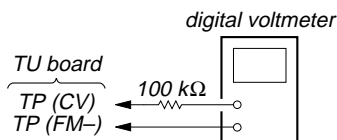
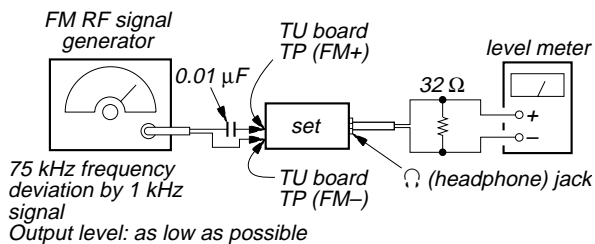
\* The adjustment is not necessary for FM because that AEP, UK models use FM tuner unit (TU1).

##### Setting:

Function : RADIO

BAND switch : FM

MONO/ST switch: stereo



- Repeat the procedures in each adjustment several times, and the VT voltage and tracking adjustments should be finally done by the trimmer capacitors.

#### AM IF ADJUSTMENT

Adjust for a maximum reading on level meter

T1	450 kHz
----	---------

#### AM VT VOLTAGE CONFIRMATION (US, Canadian)

	Frequency Display	Reading on Digital Voltmeter
Confirmation	530 kHz	0.7 $\pm$ 0.8 V
Confirmation	1,710 kHz	5 $\pm$ 1 V

#### AM TRACKING ADJUSTMENT (US, Canadian)

Adjust for a maximum reading on level meter

L4	620 kHz
CT2	1,400 kHz

#### MW VT VOLTAGE ADJUSTMENT (AEP, UK)

Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L4	531 kHz	0.8 $\pm$ 0.1 V
CT4	1,611 kHz	5.5 $\pm$ 0.2 V

#### LW VT VOLTAGE ADJUSTMENT (AEP, UK)

Adjustment Part	Frequency Display	Reading on Digital Voltmeter
CT5	279 kHz	5.5 $\pm$ 0.3 V
Confirmation	153 kHz	0.5 $\pm$ 0.4 V

#### MW TRACKING ADJUSTMENT (AEP, UK)

Adjust for a maximum reading on level meter

L3	621 kHz
CT2	1,404 kHz

#### LW TRACKING ADJUSTMENT (AEP, UK)

Adjust for a maximum reading on level meter

L5	162 kHz
CT3	261 kHz

#### FM VT VOLTAGE ADJUSTMENT (US, Canadian)

Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L2	108 MHz	4.2 $\pm$ 0.2 V
Confirmation	87.5 MHz	1.9 $\pm$ 0.2 V

#### FM TRACKING ADJUSTMENT (US, Canadian)

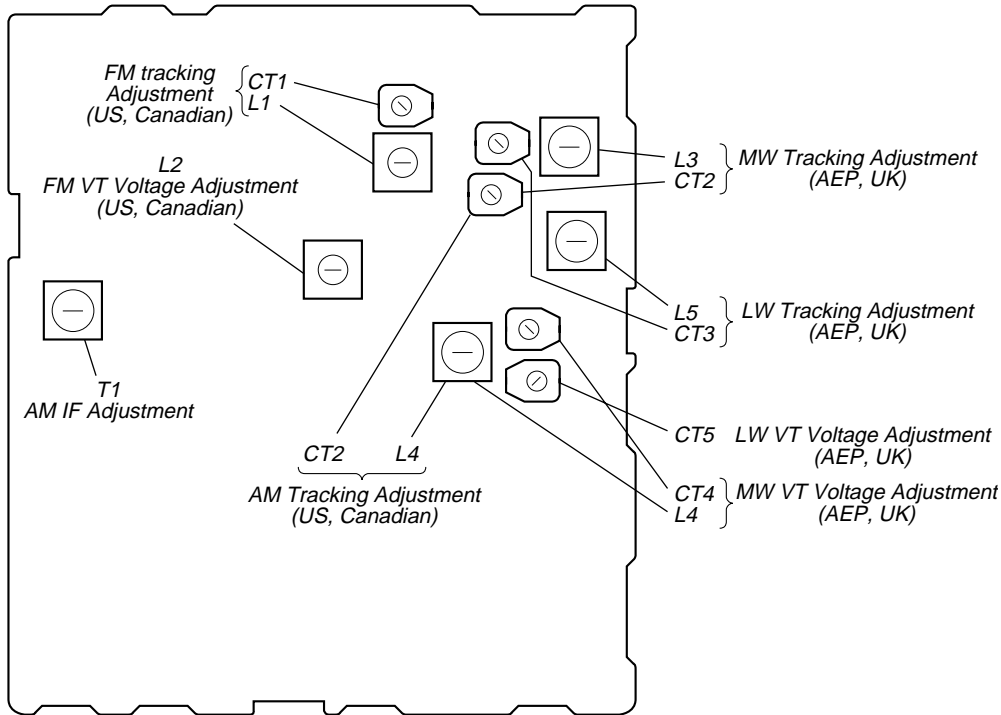
Adjust for a maximum reading on level meter

L1	87.5 MHz
CT1	108 MHz

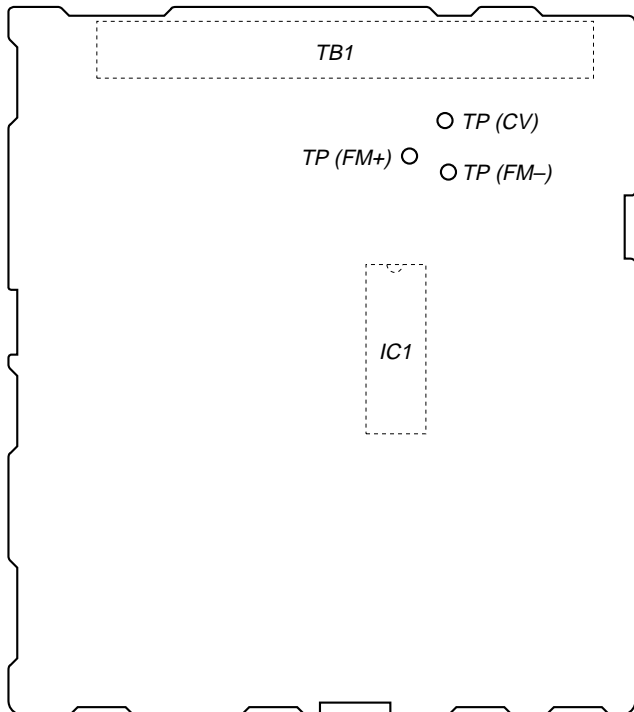
**Adjustment Location:** TU board (See page 20)

**Adjustment Location:**

**- TU BOARD (Component Side) -**



**- TU BOARD (Conductor Side) -**

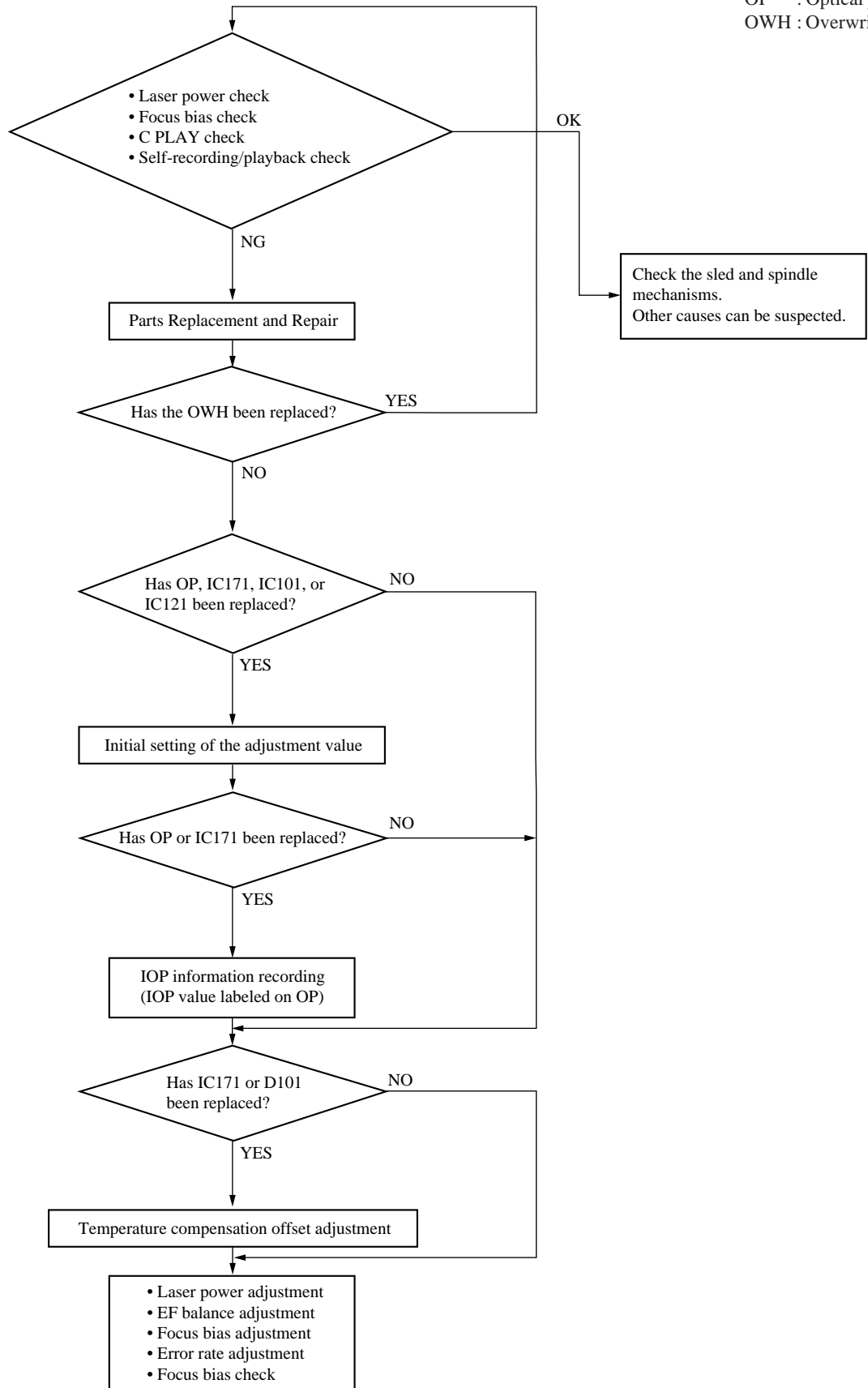


**MD SECTION**

**1. PARTS REPLACEMENT AND ADJUSTMENT**

- Check and adjust the mechanism deck as follows.  
The procedure changes according to the part replaced.

- Abbreviation  
OP : Optical pick-up  
OWH : Overwrite head

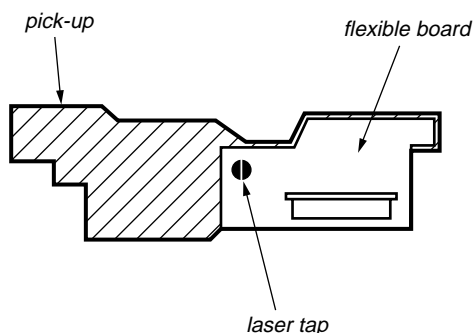


## 2. PRECAUTIONS FOR CHECKING LASER DIODE EMISSION

To check the emission of the laser diode during adjustments, never view directly from the top as this may lose your eye-sight.

## 3. PRECAUTIONS FOR USE OF OPTICAL PICK-UP (KMS-260A)

As the laser diode in the optical pick-up is easily damaged by static electricity, solder the laser tap of the flexible board when using it. Before disconnecting the connector, desolder first. Before connecting the connector, be careful not to remove the solder. Also take adequate measures to prevent damage by static electricity. Handle the flexible board with care as it breaks easily.



**Optical pick-up flexible board**

## 4. PRECAUTIONS FOR ADJUSTMENTS

- When replacing the following parts, perform the adjustments and checks with **O** in the order shown in the following table.

	Optical Pick-up	BD Board			
		IC171	D101	IC101, IC121	IC192
1. Recording of IOP information (Value on the optical pick-up label)	O	O	X	X	X
2. Temperature compensation offset adjustment	X	O	O	X	X
3. Laser power adjustment	O	O	X	O	O
4. EF balance adjustment	O	O	X	O	X
5. Focus bias adjustment	O	O	X	O	X
6. Error rate check	O	O	X	O	X

- Set the test mode when performing adjustments. After completing the adjustments, release the test mode.
- Perform the adjustments to be needed in the order shown.

- Use the following tools and measuring devices.
  - Check Disc (MD) TDYS-1 (Part No. 4-963-646-01)
  - Test Disc (MDW-74/AU-1) (Part No. 8-892-341-41)
  - Laser power meter LPM-8001 (Part No. J-2501-046-A) or MD Laser power meter 8010S (Part No. J-2501-145-A)
  - Oscilloscope (Measure after performing CAL of prove)
  - Digital voltmeter
  - Thermometer
  - Jig for checking BD board waveform (Part No. : J-2501-149-A)
- When observing several signals on the oscilloscope, etc., make sure that VC and ground do not connect inside the oscilloscope. (VC and ground will become short-circuited)
- Using the above jig enables the waveform to be checked without the need to solder. (Refer to Servicing Notes on page 4)
- As the disc used will affect the adjustment results, make sure that no dusts nor fingerprints are attached to it.

## Laser power meter

When performing laser power checks and adjustment (electrical adjustment), use of the new MD laser power meter 8010S (Part No. J-2501-145-A) instead of the conventional laser power meter is convenient.

It sharply reduces the time and trouble to set the laser power meter sensor onto the objective lens of optical pick-up.

## 5. CREATING CONTINUOUSLY-RECORDED DISC

\* This disc is used in focus bias adjustment and error rate check. The following describes how to create a continuous recording disc.

- Insert a disc (blank disc) commercially available.
- Turn the JOG dial and display "CREC MODE".
- Press the **[YES, ENTER]** button again to display "CREC MID". Display "CREC (0300)" and start to recording.
- Complete recording within 5 minutes.
- Press the **[NO, CANCEL]** button and stop recording .
- Press the **[MD EJECT ▲]** button and remove the disc.

The above has been how to create a continuous recorded data for the focus bias adjustment/check and MO error rate check.

### Note :

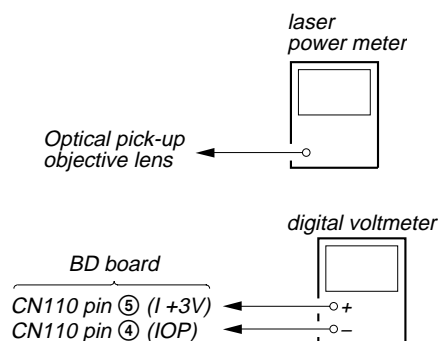
- Be careful not to apply vibration during continuous recording.

## 6. CHECK PRIOR TO REPAIRS

These checks are performed before replacing parts according to “approximate specifications” to determine the faulty locations. For details, refer to “Checks Prior to Parts Replacement and Adjustments” (See page 5).

### 6-1. Laser Power Check

Connection :



#### Checking Procedure:

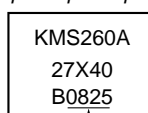
1. Set the laser power meter on the objective lens of the optical pick-up. (When it cannot be set properly, press the  $\leftarrow$  button or  $\rightarrow$  button to move the optical pick-up)  
Connect the digital voltmeter to CN110 pin ⑤ (I+3V) and CN110 pin ④ (IOP) on the BD board.
2. Then, turn the JOG dial to display “LDPWR CHECK”.
3. Press the  $\text{YES, ENTER}$  button once to display “LD 0.9 mW \$  $\square\square\square$ ”. Check that the reading of the laser power meter become 0.84 to 0.92 mW.
4. Press the  $\text{YES, ENTER}$  button once more to display “LD 7.0 mW \$  $\square\square$ ”. Check that the reading the laser power meter and digital voltmeter satisfy the specified value.

#### Specified Value:

Laser power meter reading:  $7.0 \pm 0.2$  mW

Digital voltmeter reading : Value on the optical pick-up label  $\pm 10\%$

(Optical pick-up label)



$IOP=82.5$  mA in this case

$IOP$  (mA) = Digital voltmeter reading (mV)/1 ( $\Omega$ )

5. Press the  $\text{NO, CANCEL}$  button to display “LDPWR CHECK” and stop the laser emission.  
(The  $\text{NO, CANCEL}$  button is effective at all times to stop the laser emission)

**Note 1:** After step 4, each time the  $\text{YES, ENTER}$  button is pressed, the display will be switched “LD 0.7 mW \$  $\square\square$ ”, “LD 6.2 mW \$  $\square\square$ ”, and “LD WP ホセイ \$  $\square\square$ ”. Nothing needs to be performed here.

### 6-2. Focus Bias Check

Change the focus bias and check the focus tolerance amount.

#### Checking Procedure :

1. Load the test disk (MDW-74/AU-1).
2. Turn the JOG dial to display “CPLAY MODE”.
3. Press the  $\text{YES, ENTER}$  button twice to display “CPLAY MID”.
4. Press the  $\text{NO, CANCEL}$  button when “C1 =  $\square\square\square\square$  AD =  $\square\square$ ” is displayed.
5. Turn the JOG dial to display “FBIAS CHECK”.
6. Press the  $\text{YES, ENTER}$  button to display “ $\square\square\square\square/\square\square$  c =  $\square\square$ ”.  
The first four digits indicate the C1 error rate, the two digits after [/] indicate ADER, and the 2 digits after [c =] indicate the focus bias value.  
Check that the C1 error is below 50 and ADER is below 2.
7. Press the  $\text{YES, ENTER}$  button to display “ $\square\square\square\square/\square\square$  b =  $\square\square$ ”.  
Check that the C1 error is about 200 and ADER is below 2.
8. Press the  $\text{YES, ENTER}$  button to display “ $\square\square\square\square/\square\square$  a =  $\square\square$ ”.  
Check that the C1 error is about 200 and ADER is below 2.
9. Press the  $\text{NO, CANCEL}$  button, then press the  $\text{MD EJECT}$  button and take out the test disc.

### 6-3. C PLAY Check

#### MO Error Rate Check

##### Checking Procedure :

1. Load the test disk (MDW-74/AU-1).
2. Turn the JOG dial to display “CPLAY MODE”.
3. Press the  $\text{YES, ENTER}$  button to display “CPLAY MID”.
4. The display changes to “C1 =  $\square\square\square\square$  AD =  $\square\square$ ”.
5. If the C1 error rate is below 80, check that ADER is below 2.
6. Press the  $\text{NO, CANCEL}$  button to stop playback, then press the  $\text{MD EJECT}$  button and take out the test disc.

#### CD Error Rate Check

##### Checking Procedure :

1. Load the check disc (MD) TDYS-1.
2. Turn the JOG dial to display “CPLAY MODE”.
3. Press the  $\text{YES, ENTER}$  button twice to display “CPLAY MID”.
4. The display changes to “C1 =  $\square\square\square\square$  AD =  $\square\square$ ”.
5. Check that the C1 error rate is below 50.
6. Press the  $\text{NO, CANCEL}$  button to stop playback, then press the  $\text{MD EJECT}$  button and take out the check disc.

### 6-4. Self-Recording/playback Check

Prepare a continuous recording disc using the unit to be repaired and check the error rate.

#### Checking Procedure :

1. Load a recordable disc (blank disc).
2. Turn the JOG dial to display “CREC MODE”.
3. Press the  $\text{YES, ENTER}$  button to display “CREC MID”.
4. When recording starts, lights up “ $\text{REC}$ ” and display “CREC @@@@” (@@@@ is the address).
5. About 1 minute later, press the  $\text{NO, CANCEL}$  button to stop continuous recording.
6. Turn the JOG dial to display “CPLAY MODE”.
7. Press the  $\text{YES, ENTER}$  button to display “CPLAY MID”.
8. “C1 =  $\square\square\square\square$  AD =  $\square\square$ ” will be displayed.
9. Check that the C1 error becomes below 80 and the ADER below 2.
10. Press the  $\text{NO, CANCEL}$  button to stop playback, then press the  $\text{MD EJECT}$  button and take out the disc.

## 7. TEMPERATURE COMPENSATION OFFSET ADJUSTMENT

Save the temperature data at that time in the non-volatile memory as 25 °C reference data.

### Note :

1. Usually, do not perform this adjustment.
2. Perform this adjustment in an ambient temperature of 22 °C to 28 °C. Perform it immediately after the power is turned on when the internal temperature of the unit is the same as the ambient temperature of 22 °C to 28 °C.
3. When D101 has been replaced, perform this adjustment after the temperature of this part has become the ambient temperature.

### Adjusting Procedure :

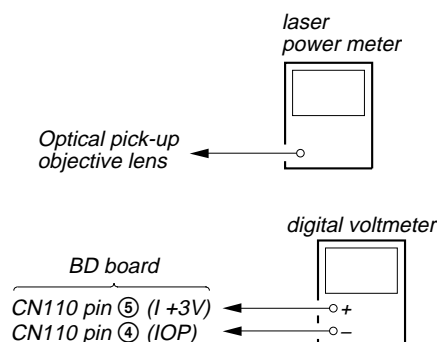
1. Turn the JOG dial to display “TEMP ADJUST”.
2. Press the **[YES, ENTER]** button to select the “TEMP ADJUST” mode.
3. “TEMP =  $\square\square\square$ ” and the current temperature data will be displayed.
4. To save the data, press the **[YES, ENTER]** button. When not saving the data, press the **[NO, CANCEL]** button.
5. When the **[YES, ENTER]** button is pressed, “TEMP =  $\square\square\square$  SAVE” will be displayed and turned back to “TEMP ADJUST” display then. When the **[NO, CANCEL]** button is pressed, “TEMP ADJUST” will be displayed immediately.

### Specified Value :

The “TEMP =  $\square\square\square$ ” should be within “E0 - EF”, “F0 - FF”, “00 - 0F”, “10 - 1F” and “20 - 2F”.

## 8. LASER POWER ADJUSTMENT

### Connection :



### Adjusting Procedure :

1. Set the laser power meter on the objective lens of the optical pick-up. (When it cannot be set properly, press the **[◀▶]** button or **[▶▶]** button to move the optical pick-up) Connect the digital voltmeter to CN110 pin ⑤ (I+3V) and CN110 pin ④ (IOP) on the BD board.
2. Turn the JOG dial to display “LDPWR ADJUST”. (Laser power : For adjustment)
3. Press the **[YES, ENTER]** button once to display “LD 0.9 mW \$  $\square\square\square$ ”.
4. Turn the JOG dial so that the reading of the laser power meter becomes 0.85 to 0.91 mW. Press the **[YES, ENTER]** button after setting the range knob of the laser power meter, and save the adjustment results. (“LD SAVE \$  $\square\square\square$ ” will be displayed for a moment)
5. Then “LD 7.0 mW \$  $\square\square\square$ ” will be displayed.
6. Turn the JOG dial so that the reading of the laser power meter becomes 6.9 to 7.1 mW, press the **[YES, ENTER]** button to save it.

**Note:** Do not perform the emission with 7.0 mW more than 15 seconds continuously.

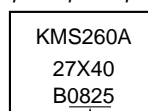
7. Then, turn the JOG dial to display “LDPWR CHECK”.
8. Press the **[YES, ENTER]** button once to display “LD 0.9 mW \$  $\square\square\square$ ”. Check that the reading of the laser power meter become 0.85 to 0.91 mW.
9. Press the **[YES, ENTER]** button once more to display “LD 7.0 mW \$  $\square\square\square$ ”. Check that the reading the laser power meter and digital voltmeter satisfy the specified value. Note down the digital voltmeter reading value.

### Specified Value:

Laser power meter reading:  $7.0 \pm 0.2$  mW

Digital voltmeter reading : Value on the optical pick-up label  $\pm 10\%$

(Optical pick-up label)



$IOP = 82.5$  mA in this case

$$IOP (mA) = \text{Digital voltmeter reading (mV)} / 1 (\Omega)$$

10. Press the **[NO, CANCEL]** button to display “LDPWR CHECK” and stop the laser emission. (The **[NO, CANCEL]** button is effective at all times to stop the laser emission)

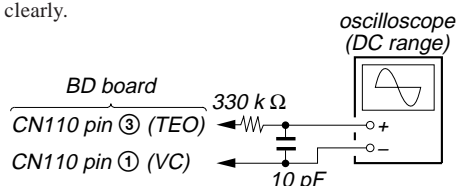
**Note 1:** After step 9, each time the **[YES, ENTER]** button is pressed, the display will be switched “LD 0.7 mW \$  $\square\square\square$ ”, “LD 6.2 mW \$  $\square\square\square$ ”, and “LD WP ホセイ \$  $\square\square\square$ ”. Nothing needs to be performed here.



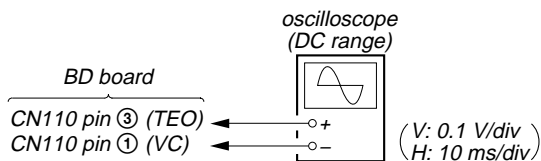
## 9. EF BALANCE ADJUSTMENT

**Note 1:** Data will be erased during MO reading if a recorded disc is used in this adjustment.

**Note 2:** If the traverse waveform is not clear, connect the oscilloscope as shown in the following figure so that it can be seen more clearly.



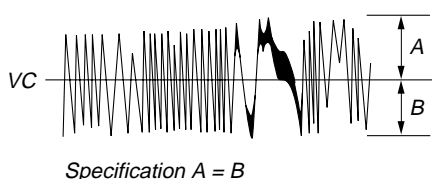
**Connection :**



### Adjusting Procedure :

1. Connect an oscilloscope to CN110 pin ③ (TEO) and CN110 pin ① (VC) on the BD board.
2. Load a disc (any available on the market). (Refer to Note 1)
3. Press the **[▶▶]** button to move the optical pick-up outside the pit.
4. Turn the JOG dial to display "EFBAL ADJUST".
5. Press the **[YES, ENTER]** button to display "EFB = MO-R".  
(Laser power READ power/Focus servo ON/tracking servo OFF/spindle (S) servo ON)
6. Turn the JOG dial so that the waveform of the oscilloscope becomes the specified value.  
(When the JOG dial is turned, the **[ ]** of "EFB = **[ ]**" changes and the waveform changes) In this adjustment, waveform varies at intervals of approx. 2%. Adjust the waveform so that the specified value is satisfied as much as possible.  
(Read power traverse adjustment)

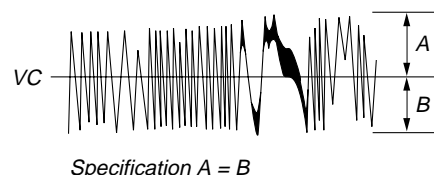
*Traverse Waveform*



7. Press the **[YES, ENTER]** button and save the result of adjustment to the non-volatile memory. ("EFB = **[ ]** SAVE" will be displayed for a moment. Then "EFB = **[ ]** MO-W" will be displayed)

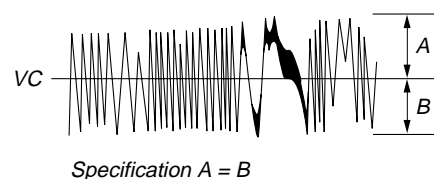
8. Turn the JOG dial so that the waveform of the oscilloscope becomes the specified value.  
(When the JOG dial is turned, the **[ ]** of "EFB- **[ ]**" changes and the waveform changes) In this adjustment, waveform varies at intervals of approx. 2%. Adjust the waveform so that the specified value is satisfied as much as possible.  
(Write power traverse adjustment)

*Traverse Waveform*



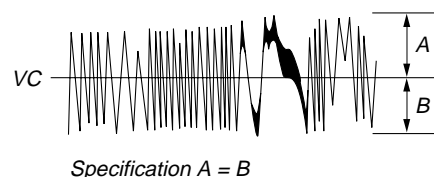
9. Press the **[YES, ENTER]** button, and save the adjustment results in the non-volatile memory. ("EFB = **[ ]** SAVE" will be displayed for a moment)
10. "EFB = **[ ]** MO-P" will be displayed.  
The optical pick-up moves to the pit area automatically and servo is imposed.
11. Turn the JOG dial until the waveform of the oscilloscope moves closer to the specified value.  
In this adjustment, waveform varies at intervals of approx. 2%. Adjust the waveform so that the specified value is satisfied as much as possible.

*Traverse Waveform*



12. Press the **[YES, ENTER]** button, and save the adjustment results in the non-volatile memory. ("EFB = **[ ]** SAVE" will be displayed for a moment)  
Next "EFBAL ADJUST" is displayed. The disc stops rotating automatically.
13. Press the **[MD EJECT ▲]** button and take out the disc.
14. Load the check disc (MD) TDYS-1.
15. Press the **[YES, ENTER]** button to display "EFB = **[ ]** CD".  
Servo is imposed automatically.
16. Turn the JOG dial so that the waveform of the oscilloscope moves closer to the specified value.  
In this adjustment, waveform varies at intervals of approx. 2%. Adjust the waveform so that the specified value is satisfied as much as possible.

*Traverse Waveform*



17. Press the **[YES, ENTER]** button, display “EFB =  $\square\square$  SAVE” for a moment and save the adjustment results in the non-volatile memory.  
Next “EFBAL ADJUST” will be displayed.
18. Press the **[MD EJECT ▲]** button and take out the disc.

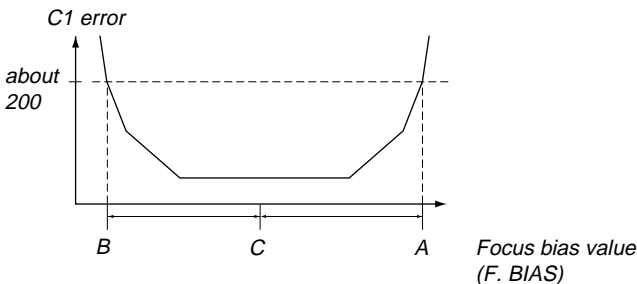
## 10. FOCUS BIAS ADJUSTMENT

### Adjusting Procedure :

1. Load the continuously-recorded disc. (Refer to “5. CREATING CONTINUOUSLY-RECORDED DISC”)
2. Turn the JOG dial to display “CPLAY MODE”.
3. Press the **[YES, ENTER]** button to display “CPLAY MID”.
4. Press the **[NO, CANCEL]** button when “C1 =  $\square\square\square\square$  AD =  $\square\square$ ” is displayed.
5. Turn the JOG dial to display “FBIAS ADJUST”.
6. Press the **[YES, ENTER]** button to display “ $\square\square\square\square/\square\square$  a =  $\square\square$ ”. The first four digits indicate the C1 error rate, the two digits after [/] indicate ADER, and the 2 digits after [a =] indicate the focus bias value.
7. Turn the JOG dial clockwise and find the focus bias value at which the C1 error rate becomes about 200 (Refer to Note 2).
8. Press the **[YES, ENTER]** button to display “ $\square\square\square\square/\square\square$  b =  $\square\square$ ”.
9. Turn the JOG dial counterclockwise and find the focus bias value at which the C1 error rate becomes about 200.
10. Press the **[YES, ENTER]** button to display “ $\square\square\square\square/\square\square$  c =  $\square\square$ ”.
11. Check that the C1 error rate is below 50 and ADER is 00. Then press the **[YES, ENTER]** button.
12. If the “(00)” in “ $\square\square - \square\square - \square\square$  (00)” is above 20, press the **[YES, ENTER]** button.  
If below 20, press the **[NO, CANCEL]** button and repeat the adjustment from step 2.
13. Press the **[MD EJECT ▲]** button and take out the disc.

**Note 1:** The relation between the C1 error and focus bias is as shown in the following figure. Find points A and B in the following figure using the above adjustment. The focal point position C is automatically calculated from points A and B.

**Note 2:** As the C1 error rate changes, perform the adjustment using the average value.



## 11. ERROR RATE CHECK

### 11-1. CD Error Rate Check

#### Checking Procedure :

1. Load the check disc (MD) TDYS-1.
2. Turn the JOG dial and display “CPLAY MODE”.
3. Press the **[YES, ENTER]** button twice and display “CPLAY MID”.
4. The display changes to “C1 =  $\square\square\square\square$  AD =  $\square\square$ ”.
5. Check that the C1 error rate is below 20.
6. Press the **[NO, CANCEL]** button to stop playback, then press the **[MD EJECT ▲]** button and take out the check disc.

### 11-2. MO Error Rate Check

#### Checking Procedure :

1. Load the continuously-recorded disc. (Refer to “5. CREATING CONTINUOUSLY-RECORDED DISC”)
2. Turn the JOG dial to display “CPLAY MODE”.
3. Press the **[YES, ENTER]** button to display “CPLAY MID”.
4. The display changes to “C1 =  $\square\square\square\square$  AD =  $\square\square$ ”.
5. If the C1 error rate is below 50, check that ADER is 00.
6. Press the **[NO, CANCEL]** button to stop playback, then press the **[MD EJECT ▲]** button and take out the test disc.

## 12. FOCUS BIAS CHECK

Change the focus bias and check the focus tolerance amount.

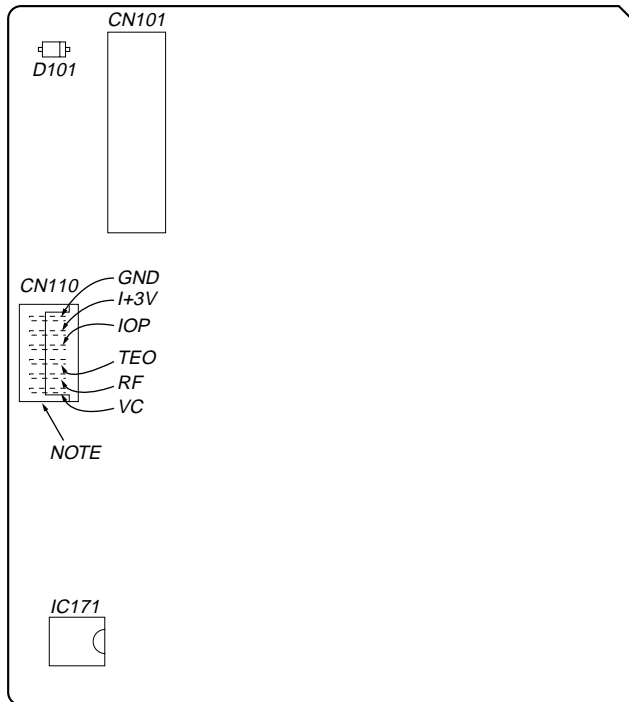
### Checking Procedure :

1. Load the continuously-recorded disc. (Refer to “5. CREATING CONTINUOUSLY-RECORDED DISC”)
2. Turn the JOG dial to display “CPLAY MODE”.
3. Press the **[YES, ENTER]** button twice to display “CPLAY MID”.
4. Press the **[NO, CANCEL]** button when “C1 =  $\square\square\square\square$  AD =  $\square\square$ ” is displayed.
5. Turn the JOG dial to display “FBIAS CHECK”.
6. Press the **[YES, ENTER]** button to display “ $\square\square\square\square/\square\square$  c =  $\square\square$ ”. The first four digits indicate the C1 error rate, the two digits after [/] indicate ADER, and the 2 digits after [c =] indicate the focus bias value.  
Check that the C1 error is below 50 and ADER is below 2.
7. Press the **[YES, ENTER]** button and display “ $\square\square\square\square/\square\square$  b =  $\square\square$ ”. Check that the C1 error is about 200 and ADER is below 2.
8. Press the **[YES, ENTER]** button and display “ $\square\square\square\square/\square\square$  a =  $\square\square$ ”. Check that the C1 error is about 200 and ADER is below 2.
9. Press the **[NO, CANCEL]** button, then press the **[MD EJECT ▲]** button and take out the disc.

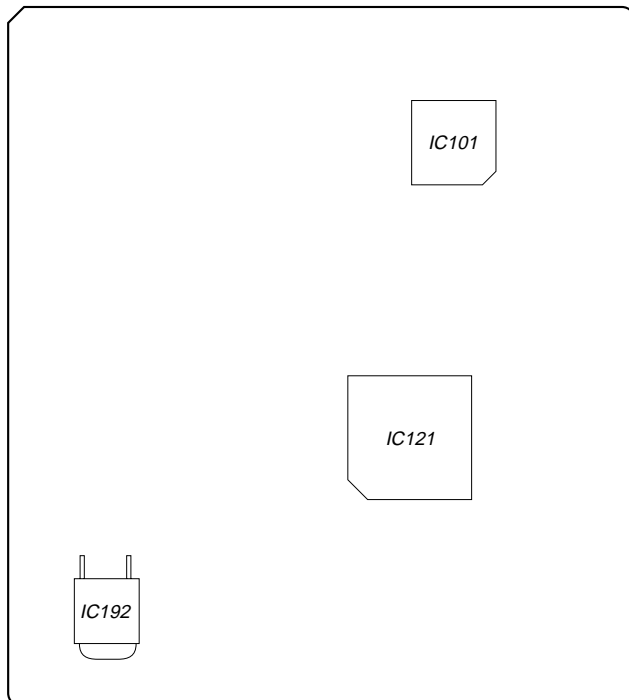
**Note 1:** If the C1 error and ADER are above other than the specified value at points A (step 8. in the above) or B (step 7. in the above), the focus bias adjustment may not have been carried out properly. Adjust perform the beginning again.

**Adjustment Location:**

**– BD BOARD (Component Side) –**



**– BD BOARD (Conductor Side) –**



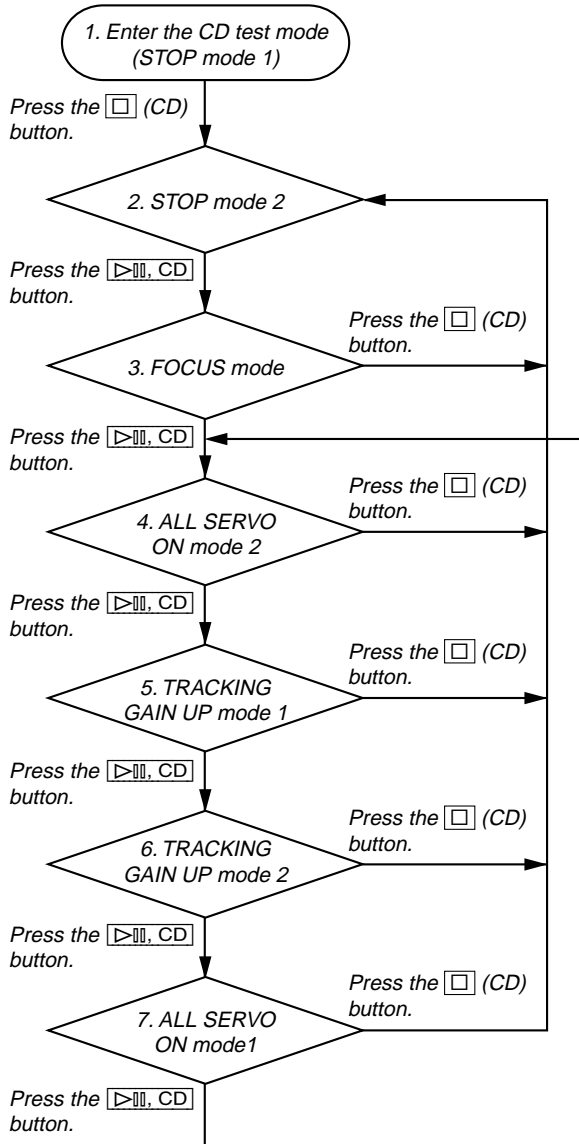
**Note:** It is useful to use the jig for checking the waveform. (Refer to Servicing Notes on page 4)

## CD SECTION

Set the CD test mode when performing confirmations.  
After completing the confirmation, release the CD test mode.

In the CD test mode, the set works as following sequence.

### CD test mode sequence:



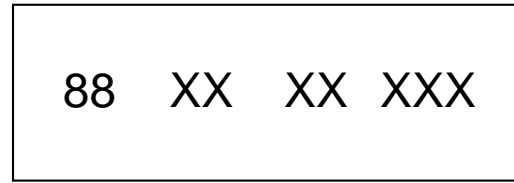
**Note1:** ALL SERVO ON mode 1 and TRACKING GAIN UP mode 1:  
LPC ON (Lights up “ALL” indication)  
ALL SERVO ON mode 2 and TRACKING GAIN UP mode 2:  
LPC OFF (Does not lights up “ALL” indication)  
\*) LPC: Laser power control

**Note2:** TRACKING GAIN UP mode 1,2 is not used in servicing.

### 1. Entering the CD Test Mode

1. Press the [POWER] button to turn the power ON.
2. Press the [CD OPEN/CLOSE ▲] button to open the disc lid, and put a disc.
3. Press the [CD OPEN/CLOSE ▲] button to close the disc lid.
4. Press the [POWER] button to standby state.
5. While pressing the both [BASS/TREBLE] and [EDIT] buttons, press the button [BASS/TREBLE], [CD] → [CD] → [BASS/TREBLE] → [CD].
6. Release the both [BASS/TREBLE] and [EDIT] buttons.
7. After display “CD” for a few seconds, enter the CD test mode (STOP mode 1), and display as below.

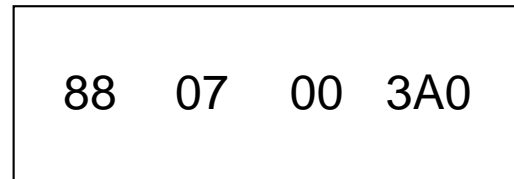
Display



### 2. STOP Mode 2

1. Press the [CD] button to enter the STOP mode 2, and display as below.

Display

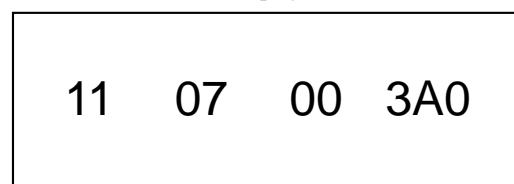


2. Press the [▶▶] and [◀◀] button to move the optical pick-up to position of the track where signal is recorded.

### 3. FOCUS Mode (Traverse Confirmation)

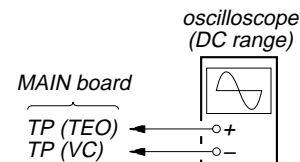
1. Press the [▶▶] button to enter the FOCUS mode and display as below. (Focus servo ON, CLV-S, tacking and sled servo OFF)

Display



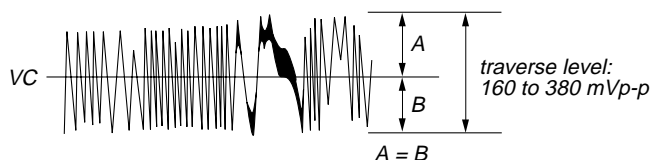
2. Connect an oscilloscope to TP (TEO) and TP (VC) on the MAIN board.

### Connection:



3. Confirm that the traverse level of waveform satisfy specified value as follows.

### Traverse Waveform




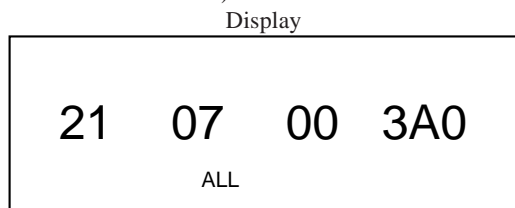
### Specified Value:

traverse level: 160 to 380 mVp-p

**Connecting Location:** MAIN board (See page 29)

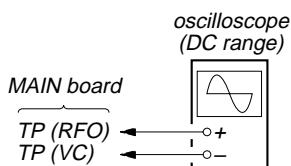
**4. ALL SERVO ON Mode 1  
(RF Level and Jitter Confirmation 1)**

1. Press the  button four times to enter the ALL SERVO ON mode 1 (start playback the disc) and display as below. (All servo ON. LPC ON)

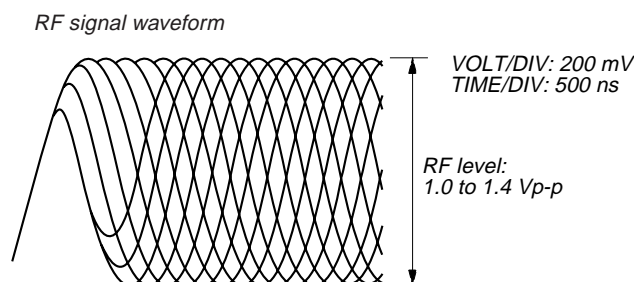


2. Connect an oscilloscope to TP (RFO) and TP (VC) on the MAIN board.

**Connection:**



3. Confirm that the RF level and jitter of waveform satisfy specified values as follows.




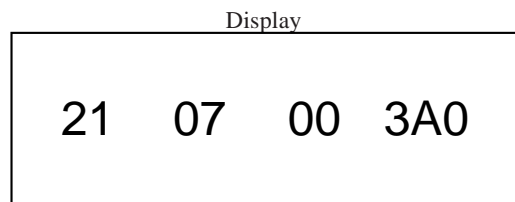
**Specified Values:**

RF level : 1.0 to 1.4 Vp-p  
jitter : less than 9 nsec

**Connecting Location:** MAIN board

**5. ALL SERVO ON Mode 2  
(RF Level and Jitter Confirmation 2)**

1. Press the  button to enter the LPC OFF mode and display as below. (All servo ON. LPC OFF)




2. Confirm that the RF level and jitter of waveform satisfy specified values as follows.

**Specified Values:**

RF level : 0.8 to 1.4 Vp-p  
jitter : less than 9 nsec

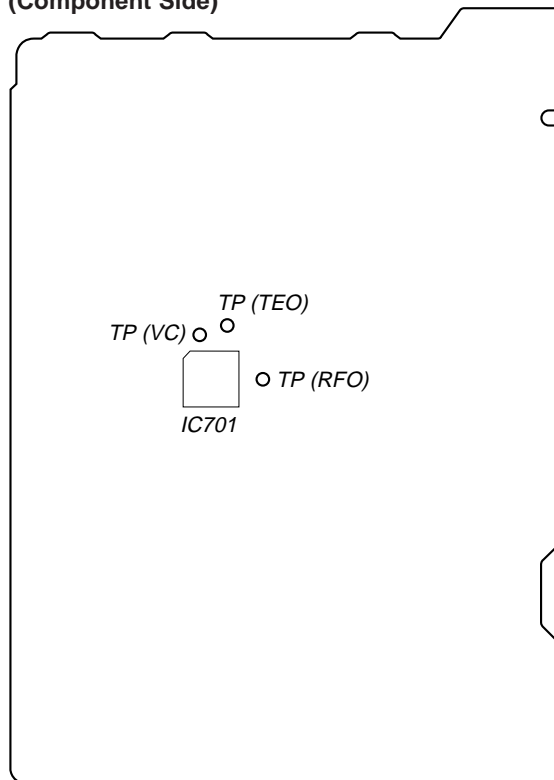
If the RF level and jitter are out of specified values, measure again after clean the object lens by an applicator with lens cleaning liquid.

**6. Releasing the CD Test Mode**

1. Press the  (CD) button to stop rotate the disc.
2. Press the **POWER** button or **RESET** switch (bottom of the player unit) to release the CD test mode and turn to standby state.

**Connecting Location:**

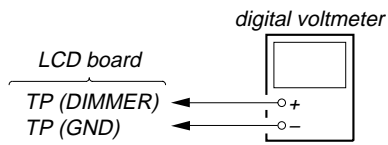
**– MAIN BOARD –  
(Component Side)**



## DISPLAY SECTION

### Dimmer Adjustment

#### Connection:



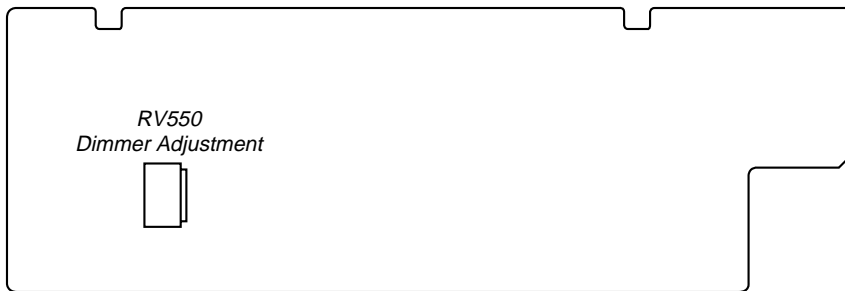
1. Connect a digital voltmeter to TP (DIMMER) and TP (GND) on the LCD board.
2. Adjust RV550 so that the value of digital voltmeter becomes 2.83 V.

**Specified Value:** 2.83 to 2.93 V

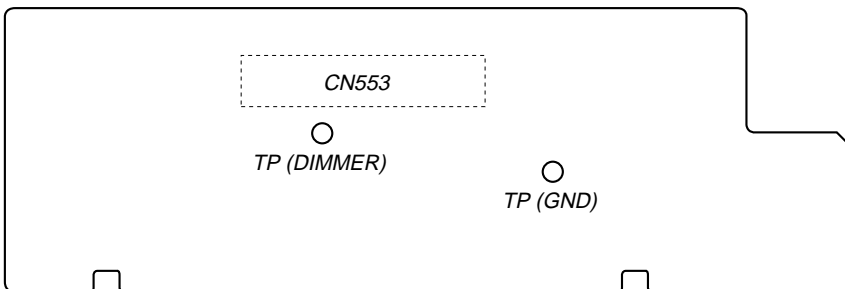
**Note:** Connect the liquid crystal display unit (LCD500) to the LCD board when performing adjustment.

#### Adjustment Location:

##### – LCD BOARD (Component Side) –

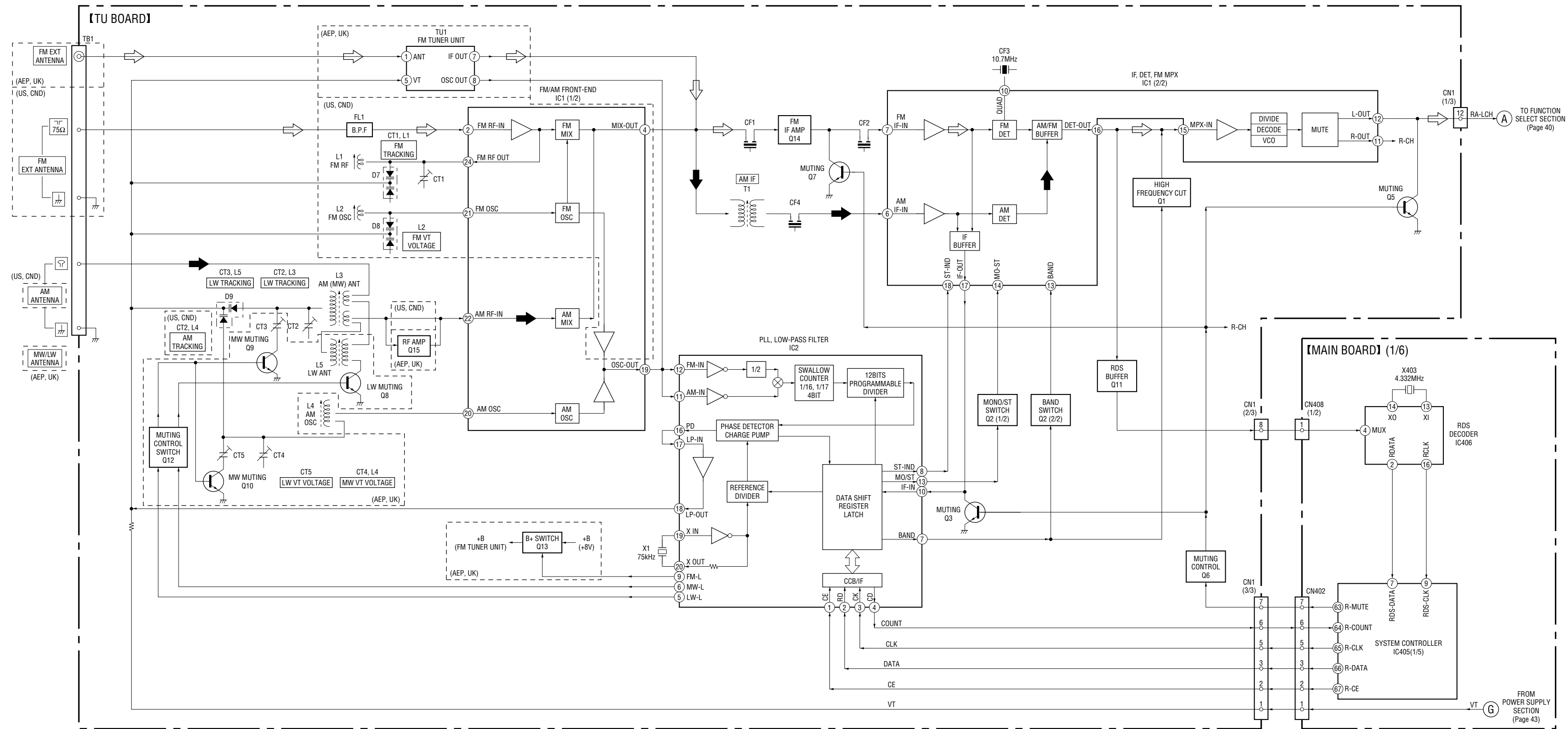


##### – LCD BOARD (Conductor Side) –



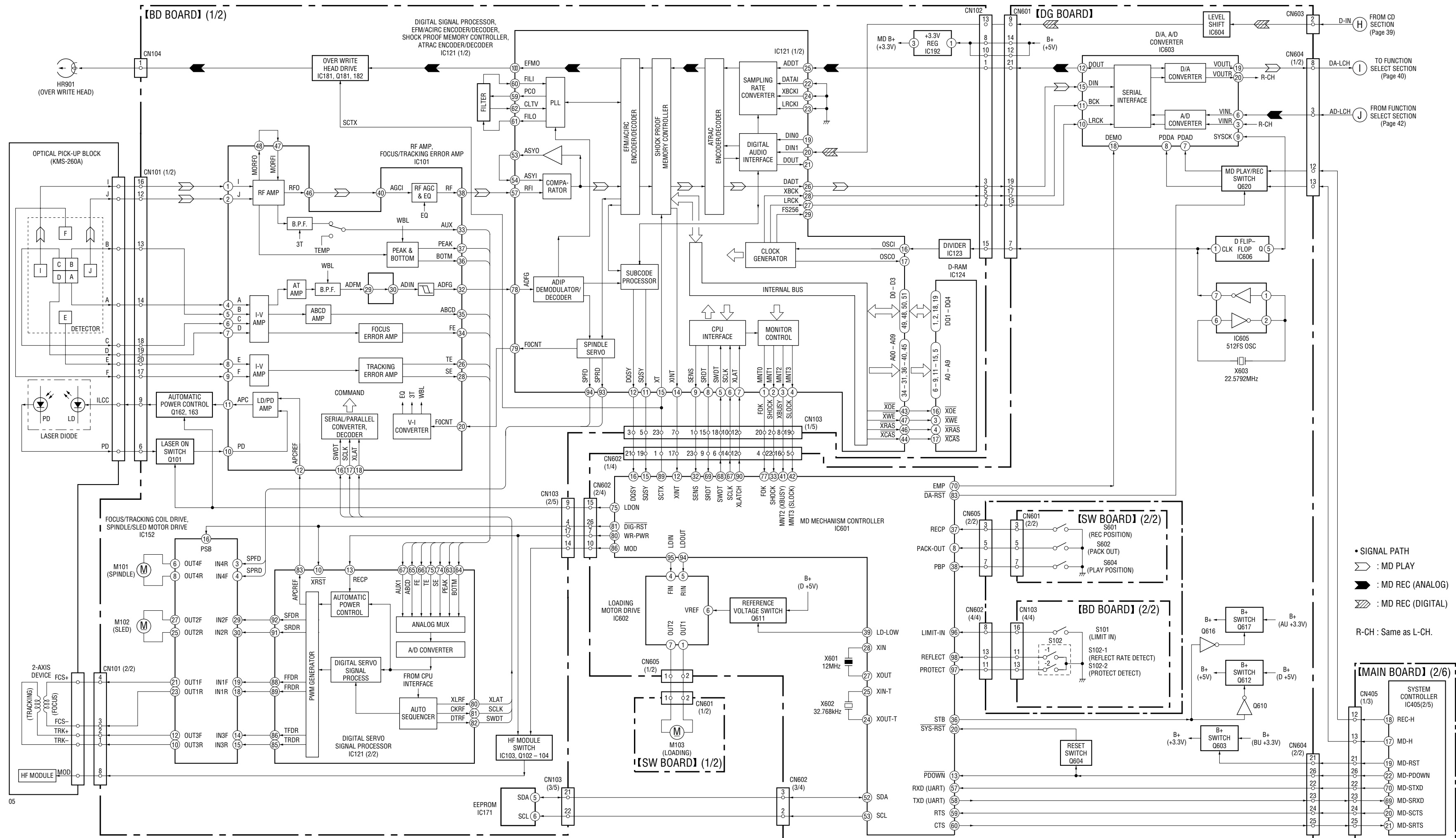
SECTION 6  
DIAGRAMS

6-1. BLOCK DIAGRAM - TUNER Section -



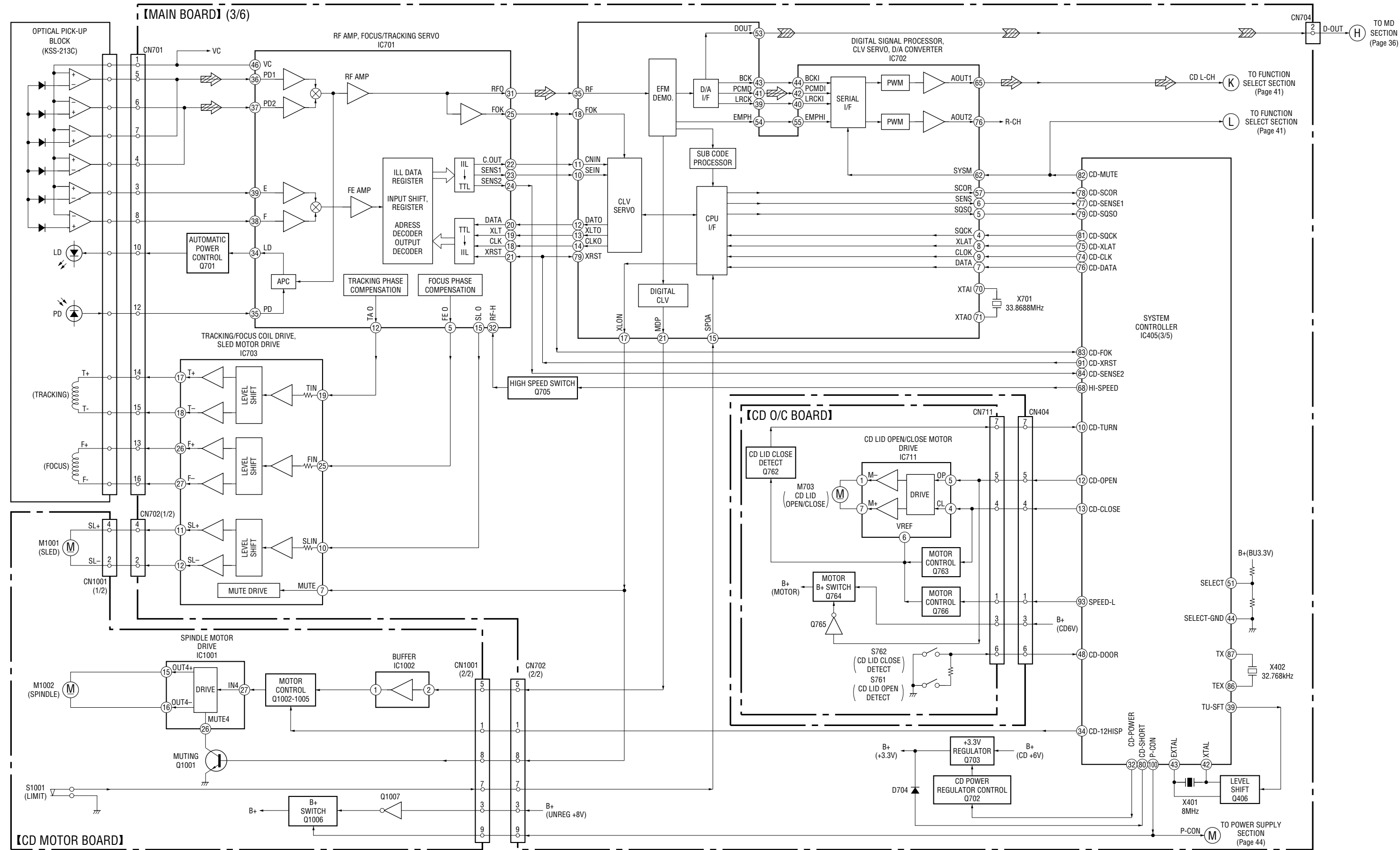
05

6-2. BLOCK DIAGRAM - MD Section -





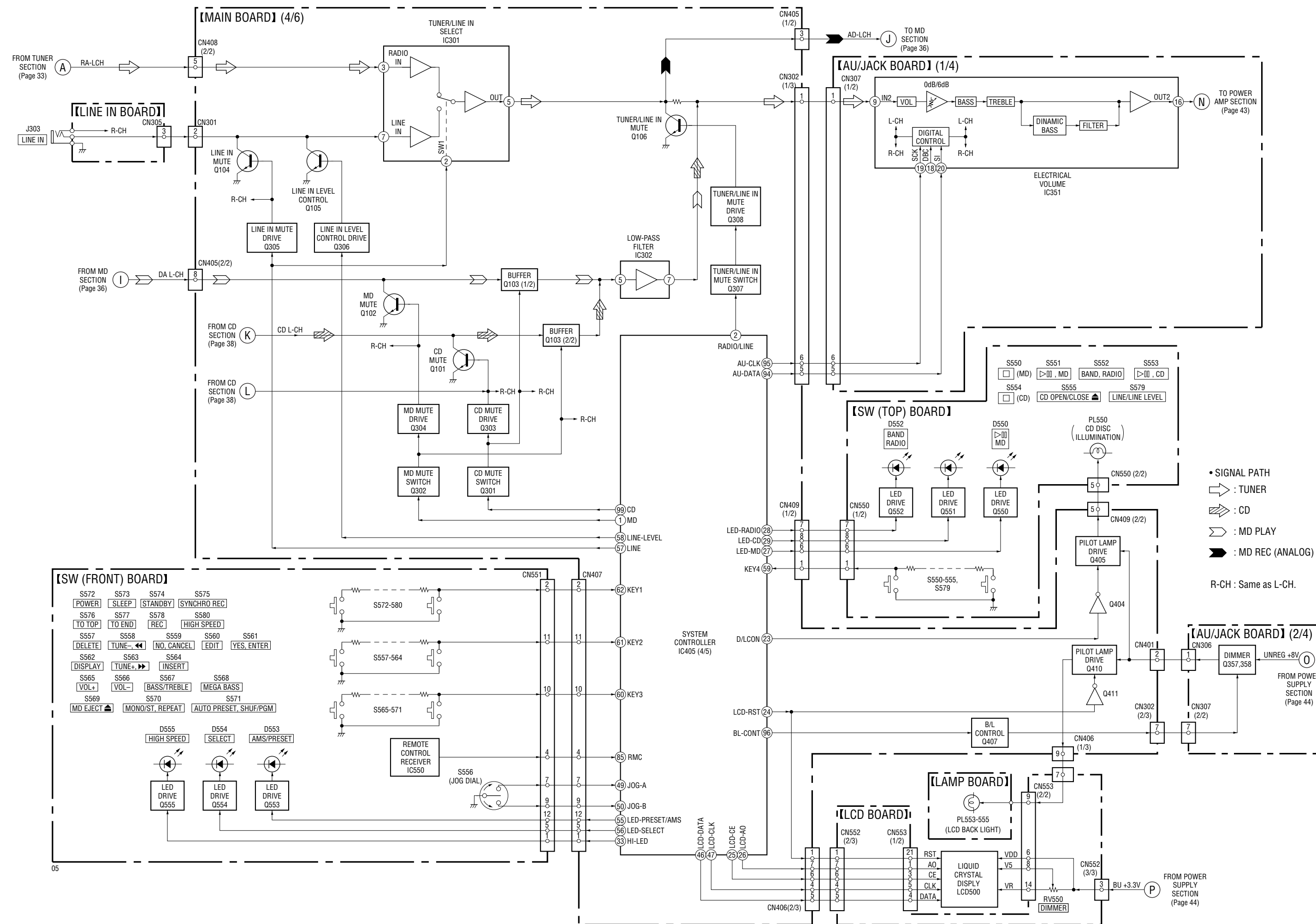
6-3. BLOCK DIAGRAM - CD Section -



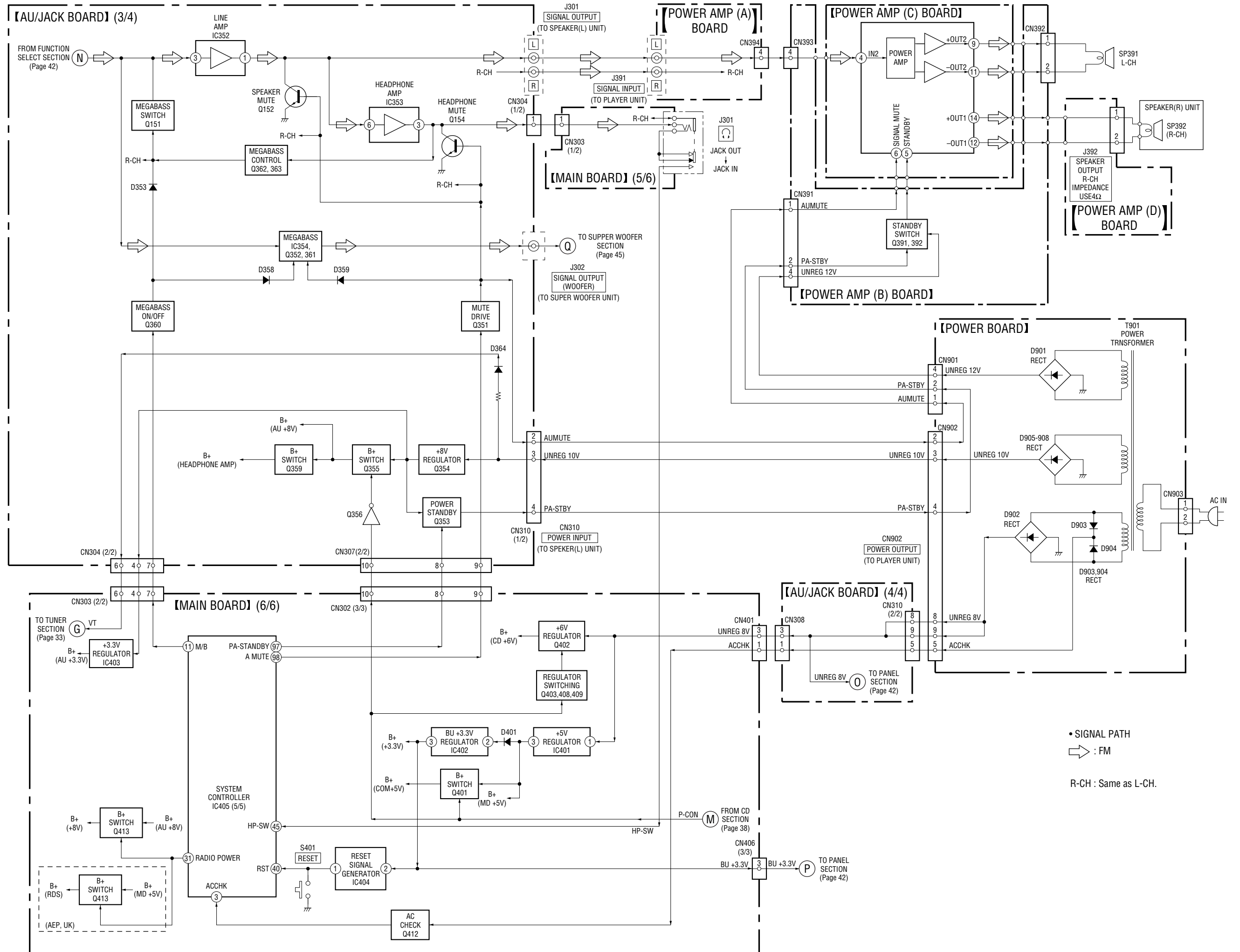
05

R-CH : Same as L-CH.  
 • SIGNAL PATH  
 ~~~~~ : CD PLAY  
 ▨ : MD REC (DIGITAL)

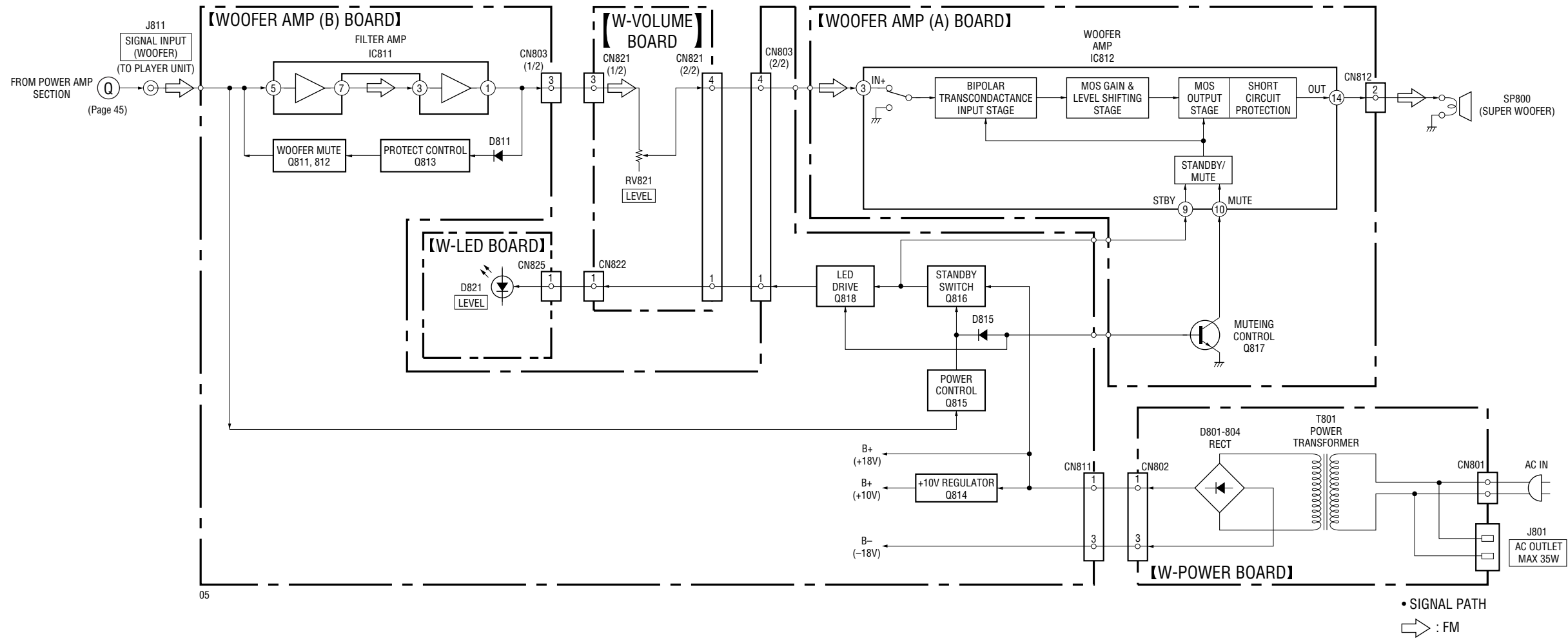
6-4. BLOCK DIAGRAM – FUNCTION SELECT/PANEL Section –



6-5. BLOCK DIAGRAM – POWER AMP/POWER SUPPLY Section –

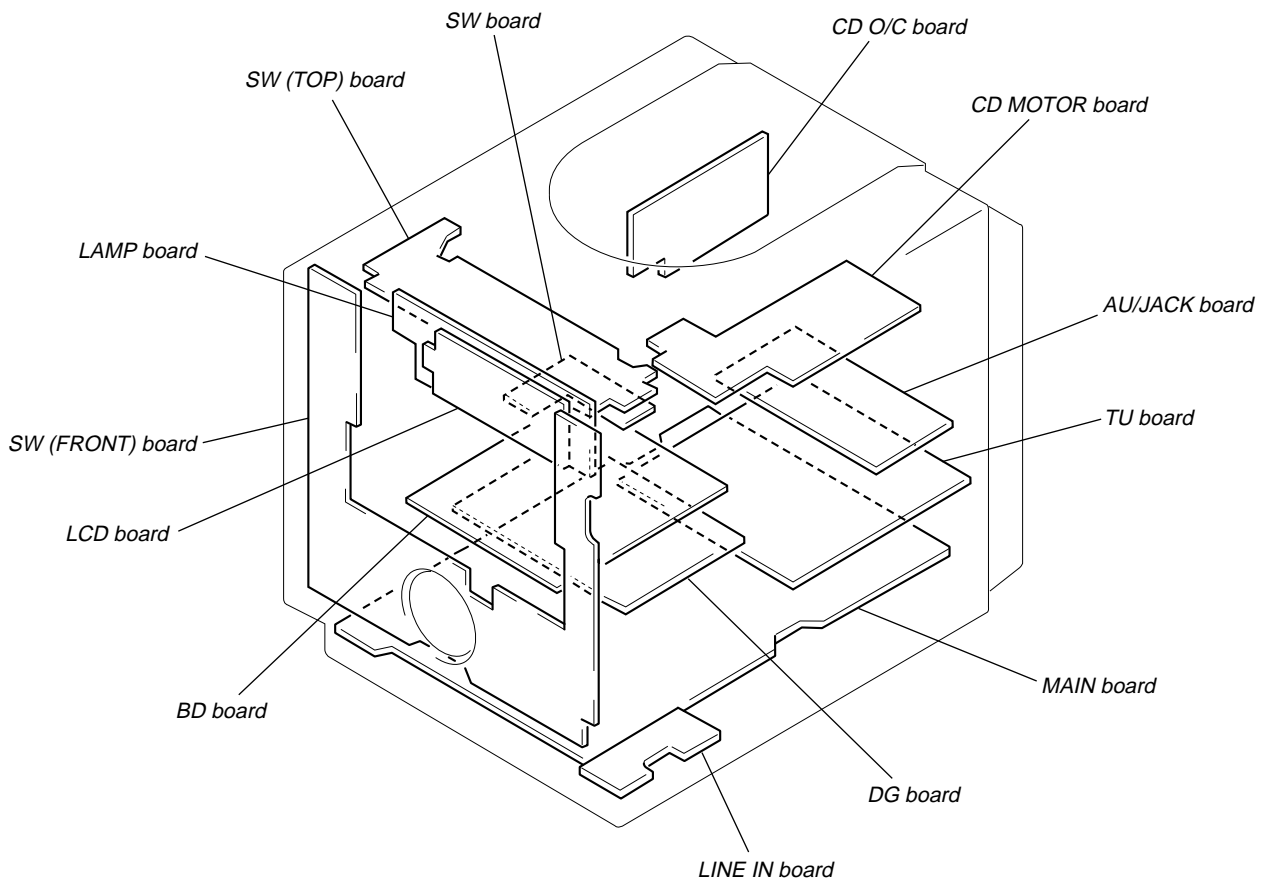


6-6. BLOCK DIAGRAM – SUPER WOOFER Section –

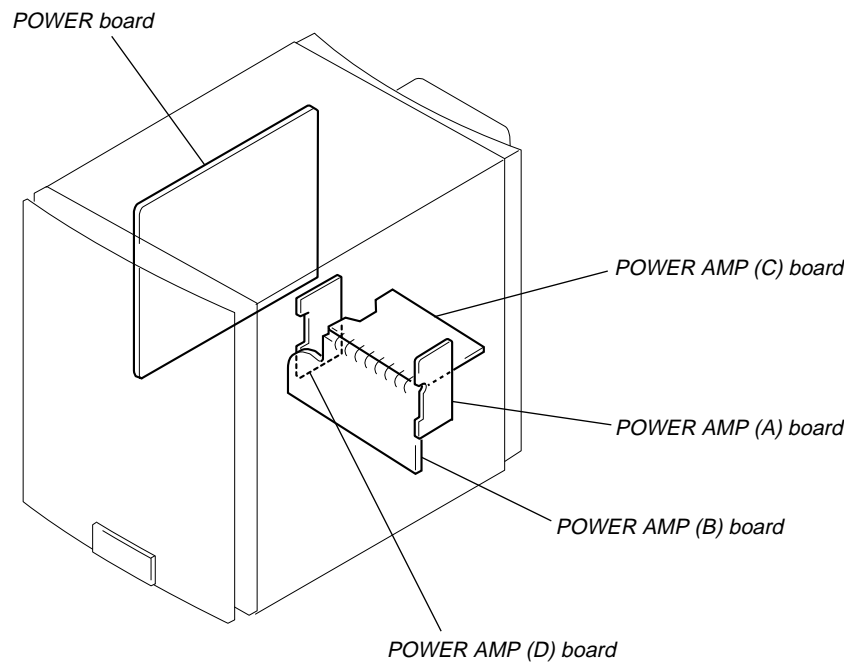


• **Circuit Bords Location**

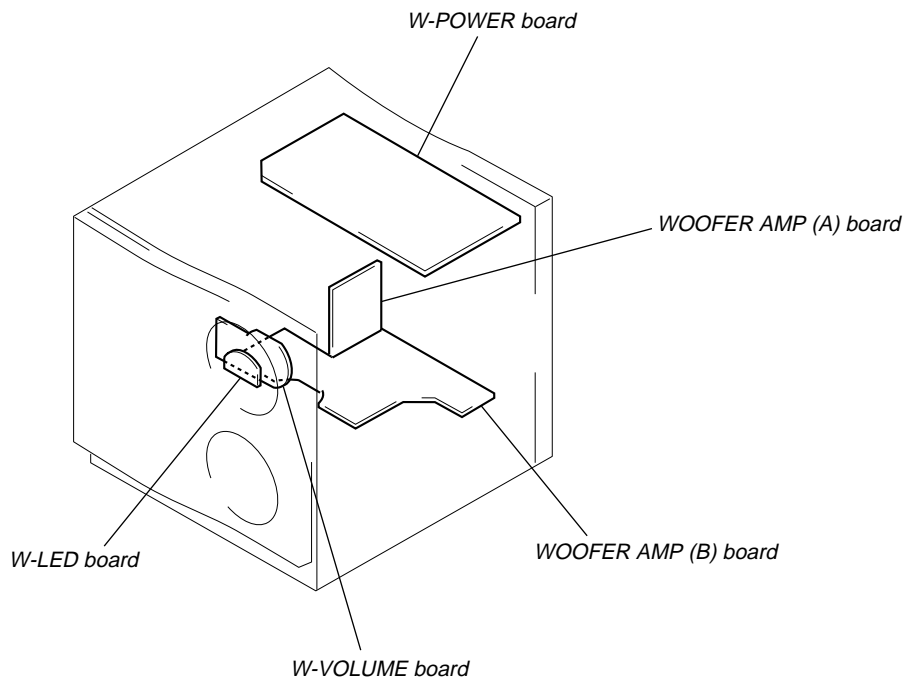
– **Player Unit** –

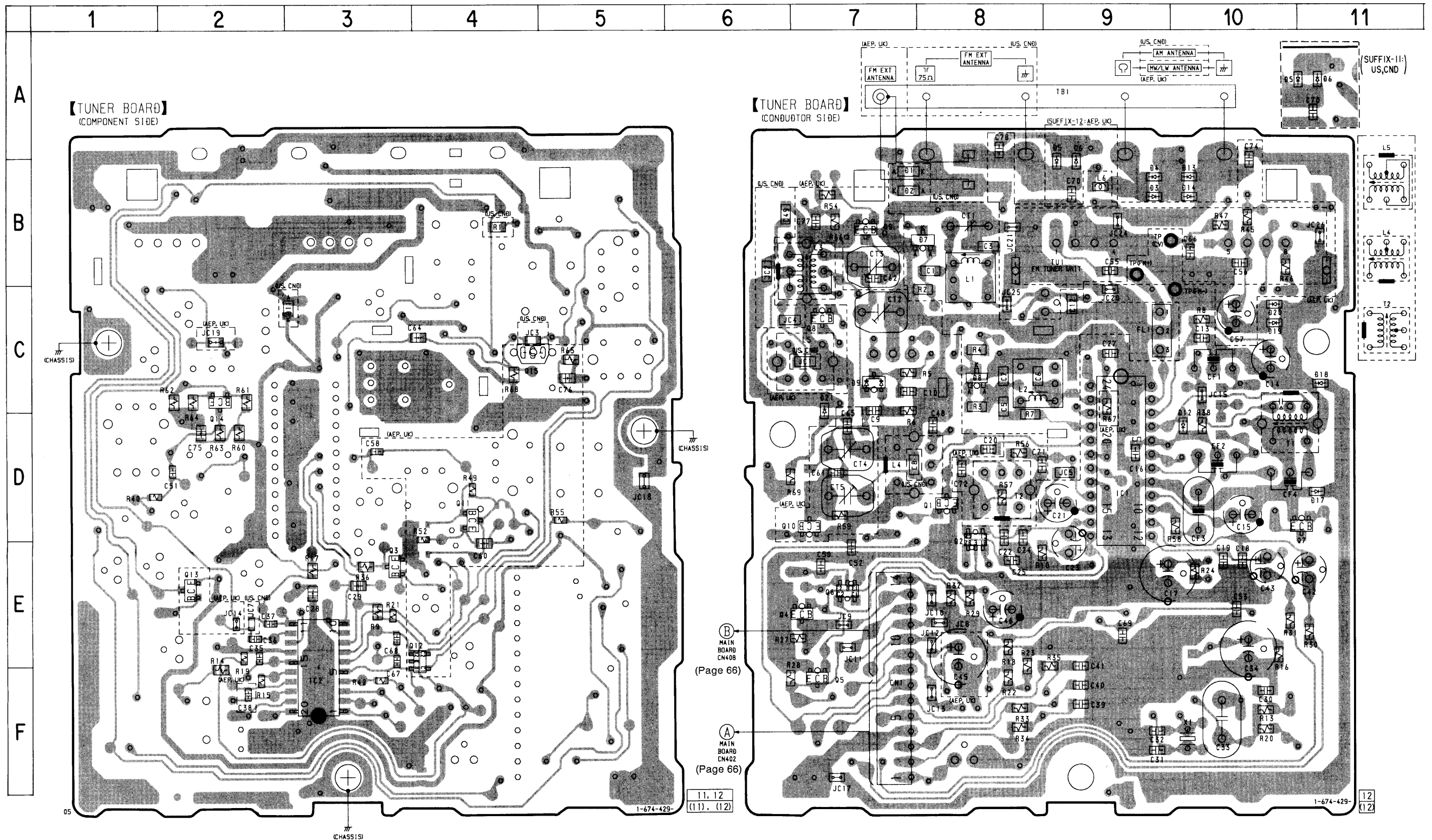


– **Speaker (L) Section** –



– Super Woofer Section –





• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D1       | B-7      | IC1      | D-9      |
| D2       | B-7      | IC2      | F-3      |
| D3       | B-9      |          |          |
| D4       | B-9      | Q1       | D-8      |
| D5       | B-9      | Q2       | E-8      |
| D6       | B-9      | Q3       | E-3      |
| D7       | B-8      | Q4       | E-7      |
| D8       | C-8      | Q5       | F-7      |
| D9       | C-7      | Q6       | E-7      |
| D11      | C-3      | Q7       | D-11     |
| D12      | D-10     | Q8       | C-7      |
| D13      | B-10     | Q9       | B-7      |
| D14      | B-10     | Q10      | D-7      |
| D17      | D-11     | Q11      | D-4      |
| D18      | C-11     | Q12      | E-4      |
| D19      | C-10     | Q13      | E-2      |
| D20      | C-10     | Q14      | C-2      |
| D21      | C-7      | Q15      | C-4      |

Note on Printed Wiring Board:

- — : parts extracted from the component side.
- — : parts extracted from the conductor side.
- [ ] : indicates side identified with part number.
- ○ : Through hole.
- △ : internal component.
- [ ] : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

Caution:

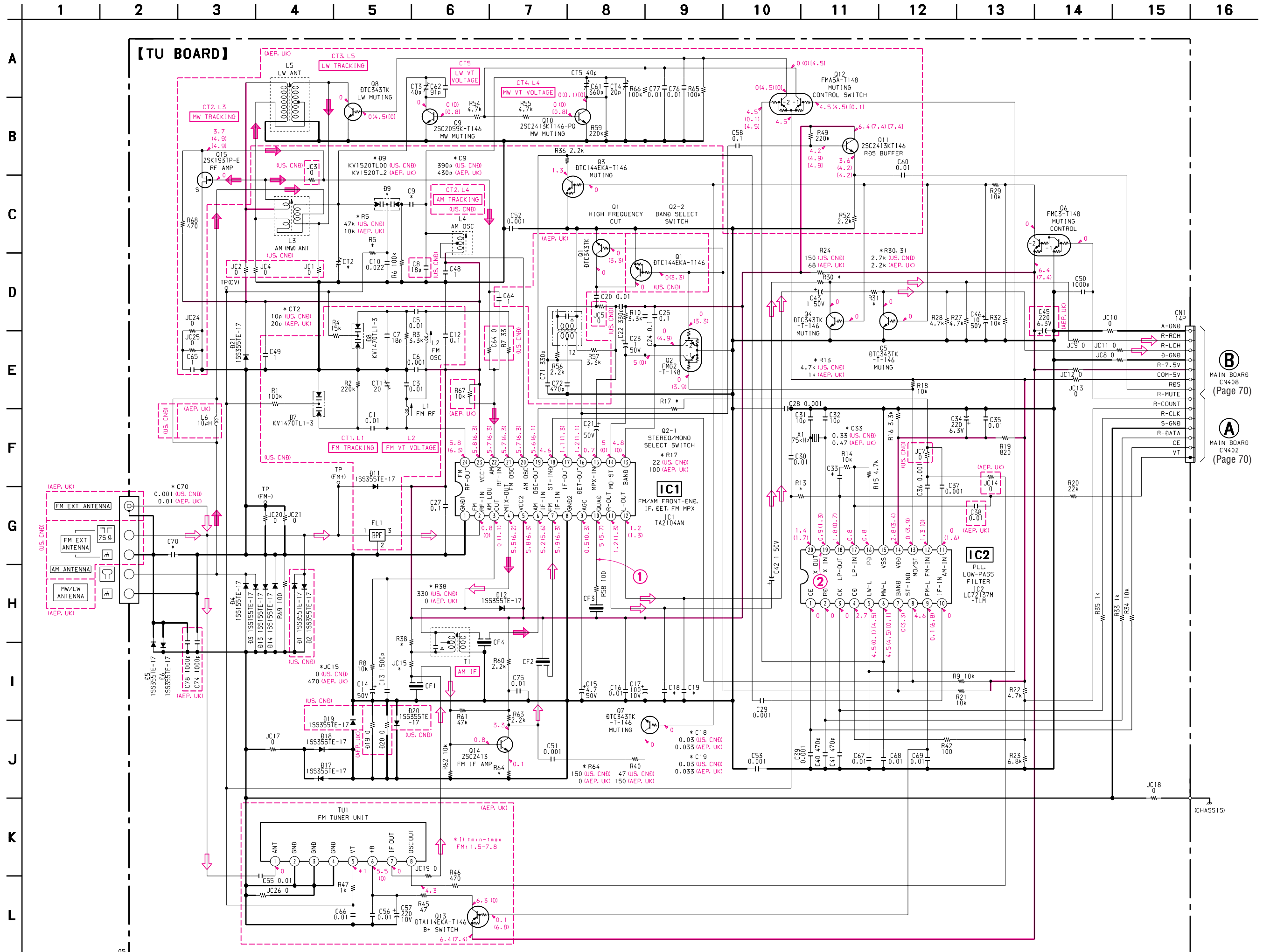
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.  
 Conductor Side: Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
- CND : Canadian model

Note on Schematic Diagram:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{pF}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4$  W or less unless otherwise specified.
- △ : internal component.
- [ ] : panel designation.
- [ ] : B+ Line.
- [ ] : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- ( ) : AM (MW)
- [ ] : LW

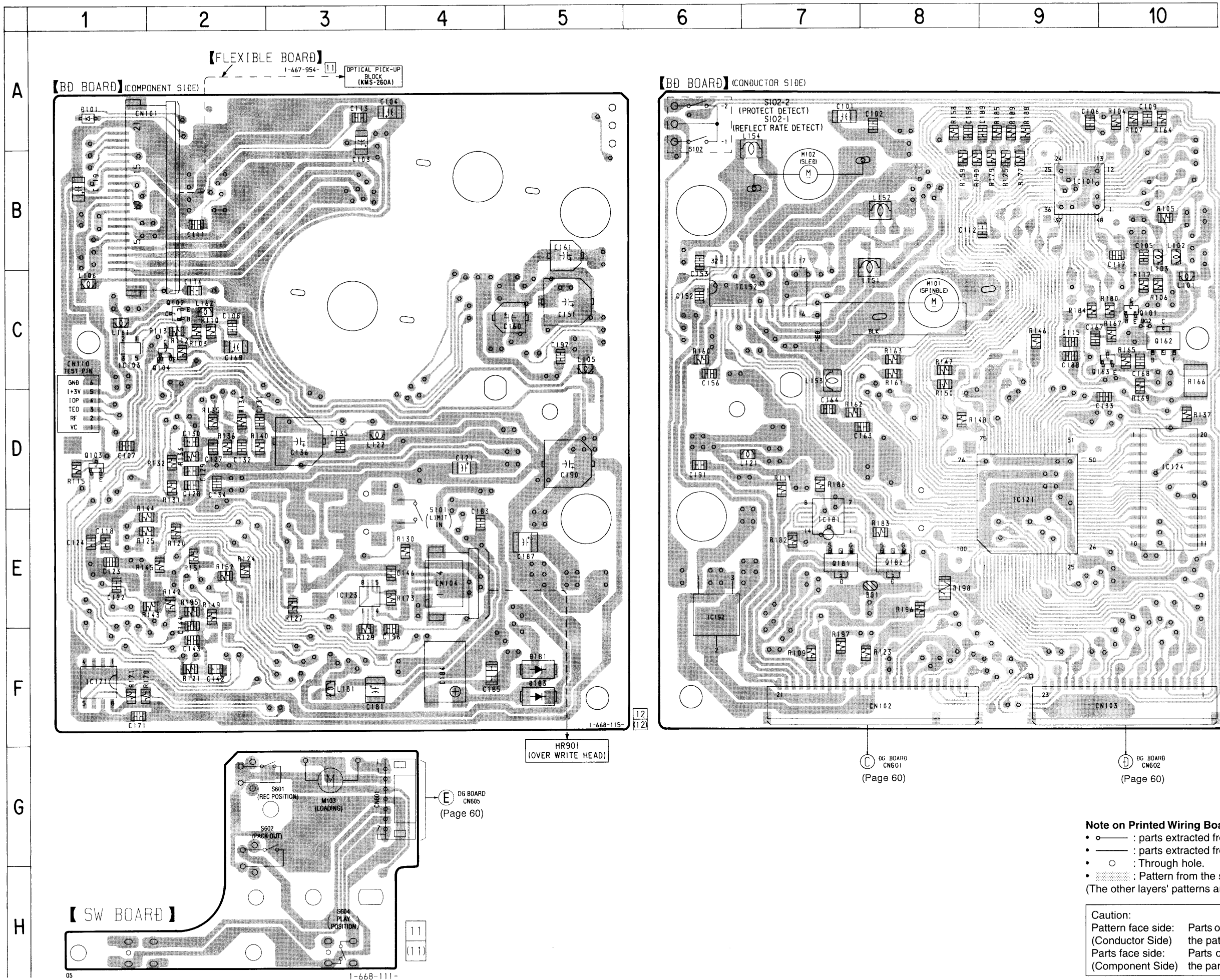
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- ◻ : FM
- ◻ : AM (MW/LW)
- Abbreviation
- CND : Canadian model







6-10. PRINTED WIRING BOARDS – BD Section – • See page 47 for Circuit Boards Location.



• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D101     | A-1      |
| D181     | F-5      |
| D183     | F-5      |
| IC101    | B-9      |
| IC103    | C-1      |
| IC121    | D-9      |
| IC123    | E-3      |
| IC124    | D-10     |
| IC152    | C-7      |
| IC171    | F-1      |
| IC181    | E-7      |
| IC192    | E-6      |
| Q101     | C-10     |
| Q102     | C-2      |
| Q103     | D-1      |
| Q104     | C-2      |
| Q162     | C-10     |
| Q163     | C-10     |
| Q181     | E-7      |
| Q182     | E-8      |

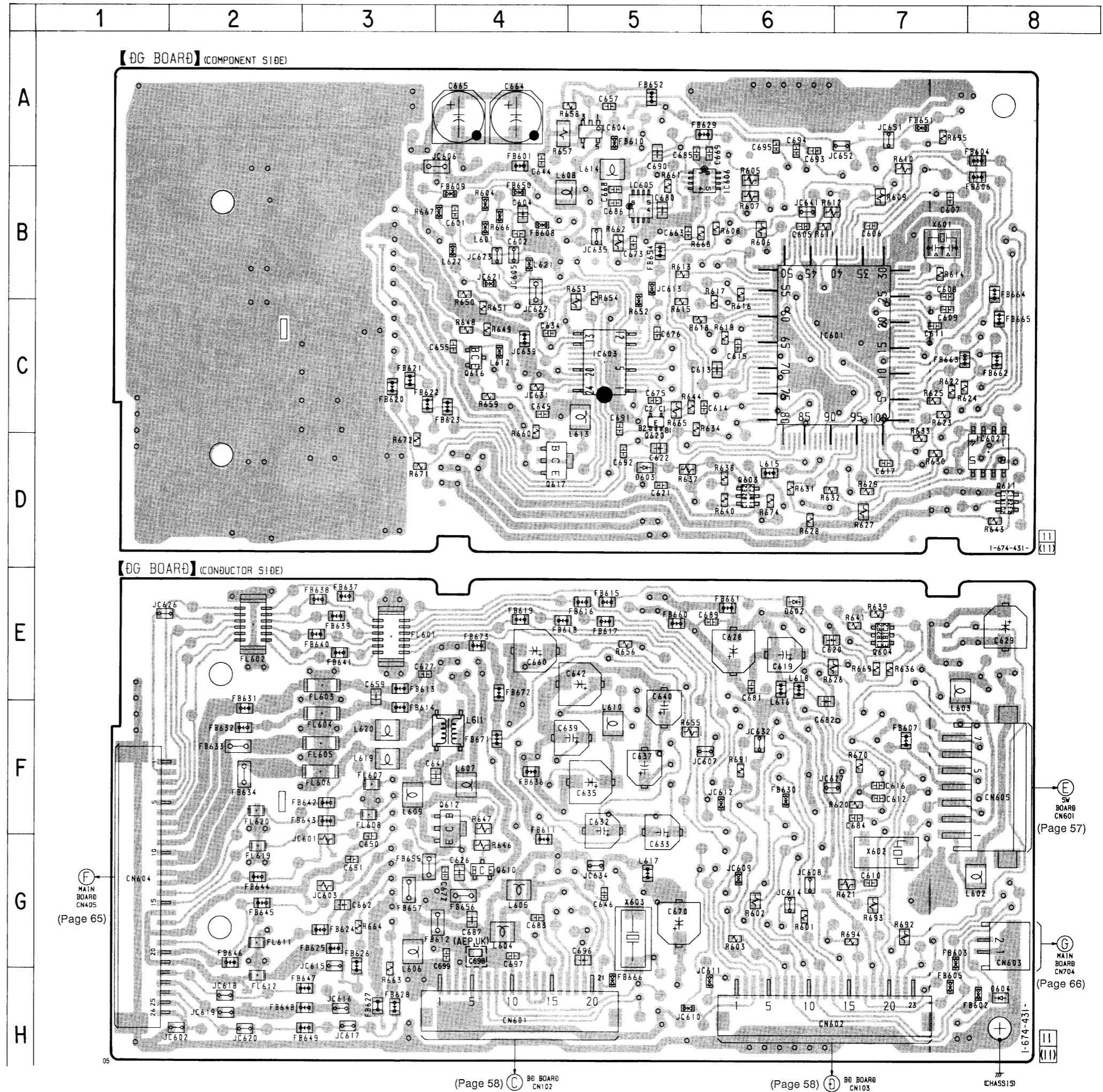
**Note on Printed Wiring Boards:**

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Through hole.
- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

**Caution:**  
 Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.  
 Parts face side: Parts on the parts face side seen from the parts face are indicated.

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D602     | E-6      |
| D603     | D-5      |
| D604     | H-8      |
| IC601    | C-7      |
| IC602    | D-8      |
| IC603    | C-5      |
| IC604    | A-5      |
| IC605    | B-5      |
| IC606    | B-6      |
| Q603     | D-6      |
| Q604     | E-7      |
| Q610     | G-4      |
| Q611     | D-8      |
| Q612     | F-4      |
| Q616     | C-4      |
| Q617     | D-4      |
| Q620     | C-5      |



**Note on Printed Wiring Board:**

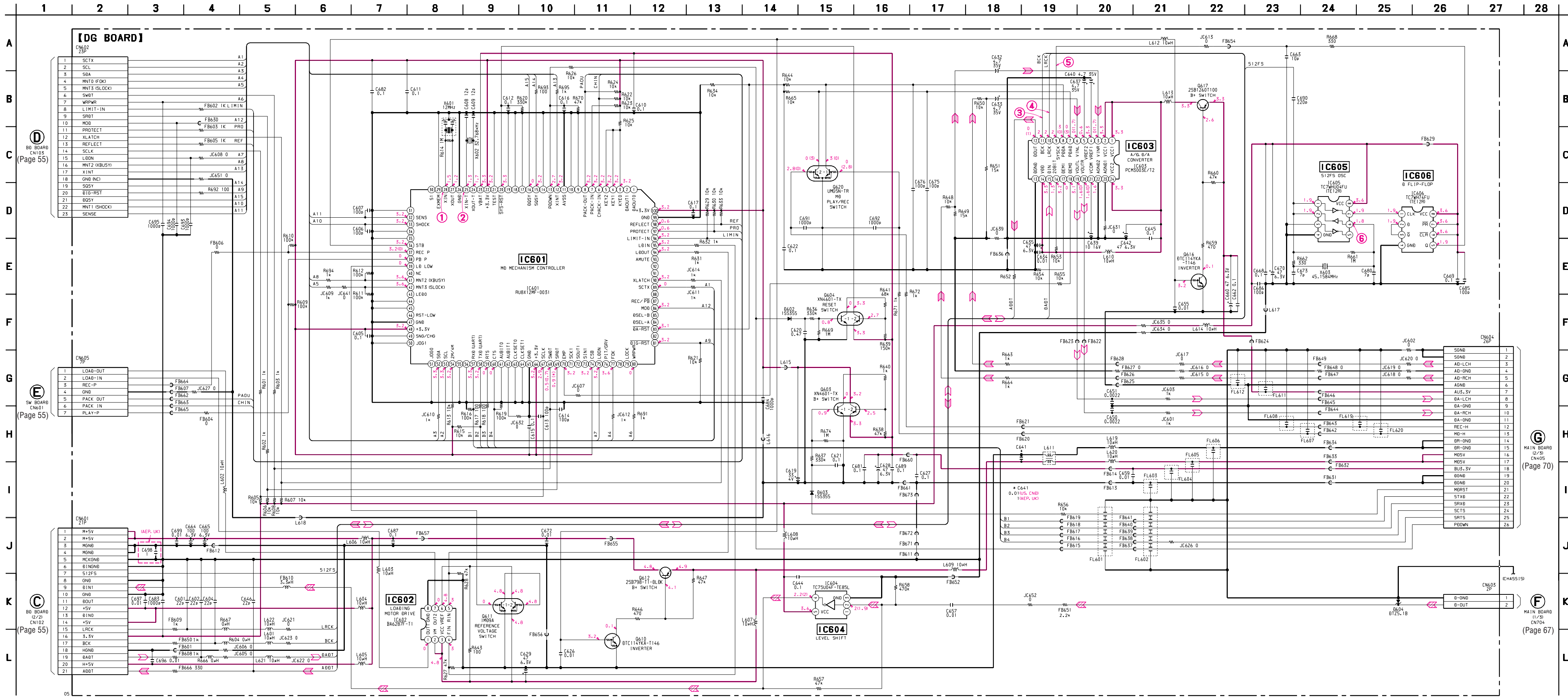
- ○ : Through hole.
- △ : internal component.
- ▨ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

**Caution:**

Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.

Parts face side: Parts on the parts face side seen from (Component Side) the parts face are indicated.

6-12. SCHEMATIC DIAGRAM – DG Section – • See page 99 for Waveforms. • See page 104 for IC Block Diagrams.



**Note on Schematic Diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{pF}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- $\Delta$  : internal component.

- **—** : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- **MD** : MD PLAY
- **MD REC** : MD REC (ANALOG)
- **MD STOP** : MD REC (DIGITAL)

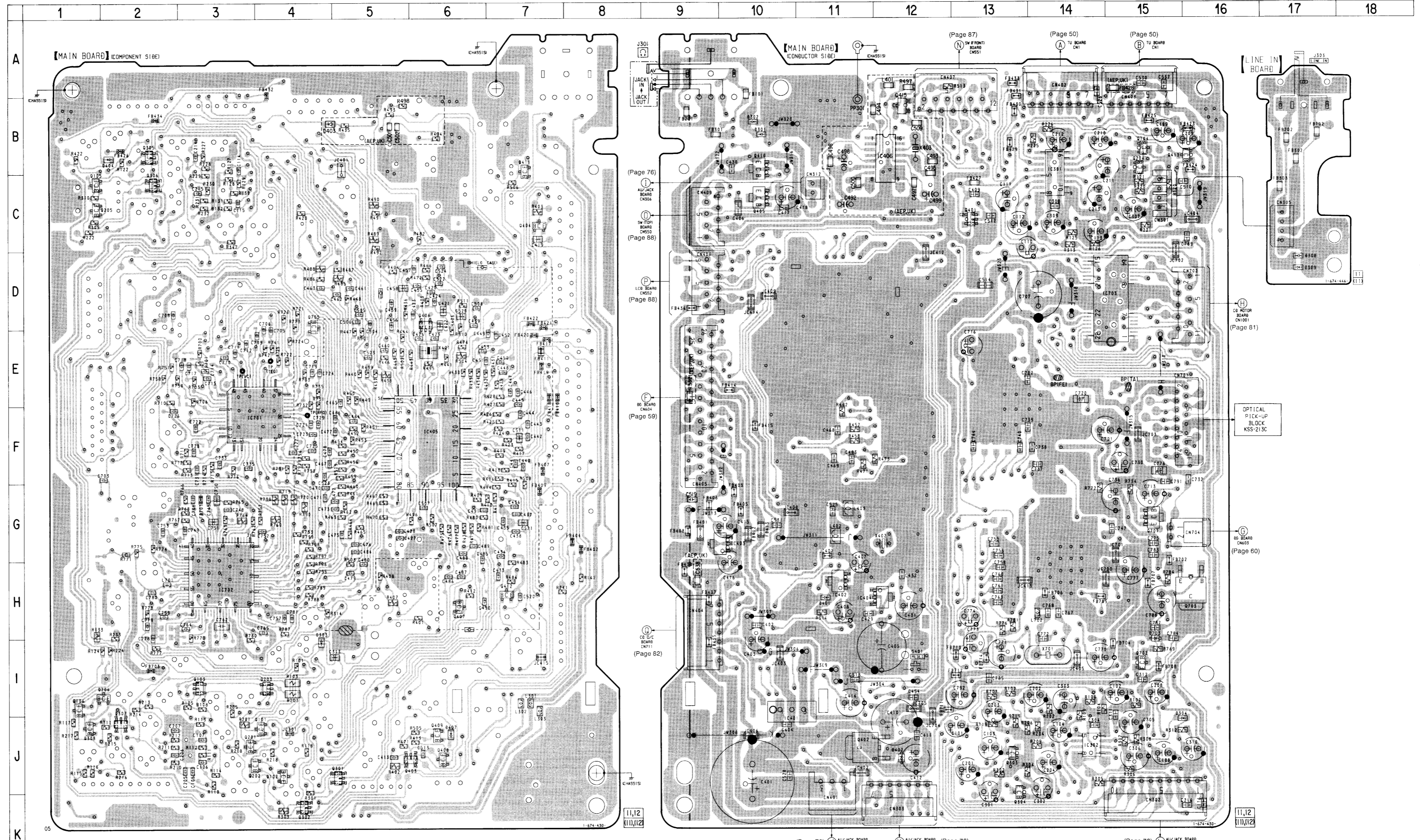
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- **MD** : MD PLAY
- **MD REC** : MD REC (ANALOG)
- **MD STOP** : MD REC (DIGITAL)
- Abbreviation
- CND : Canadian model

• Semiconductor Location

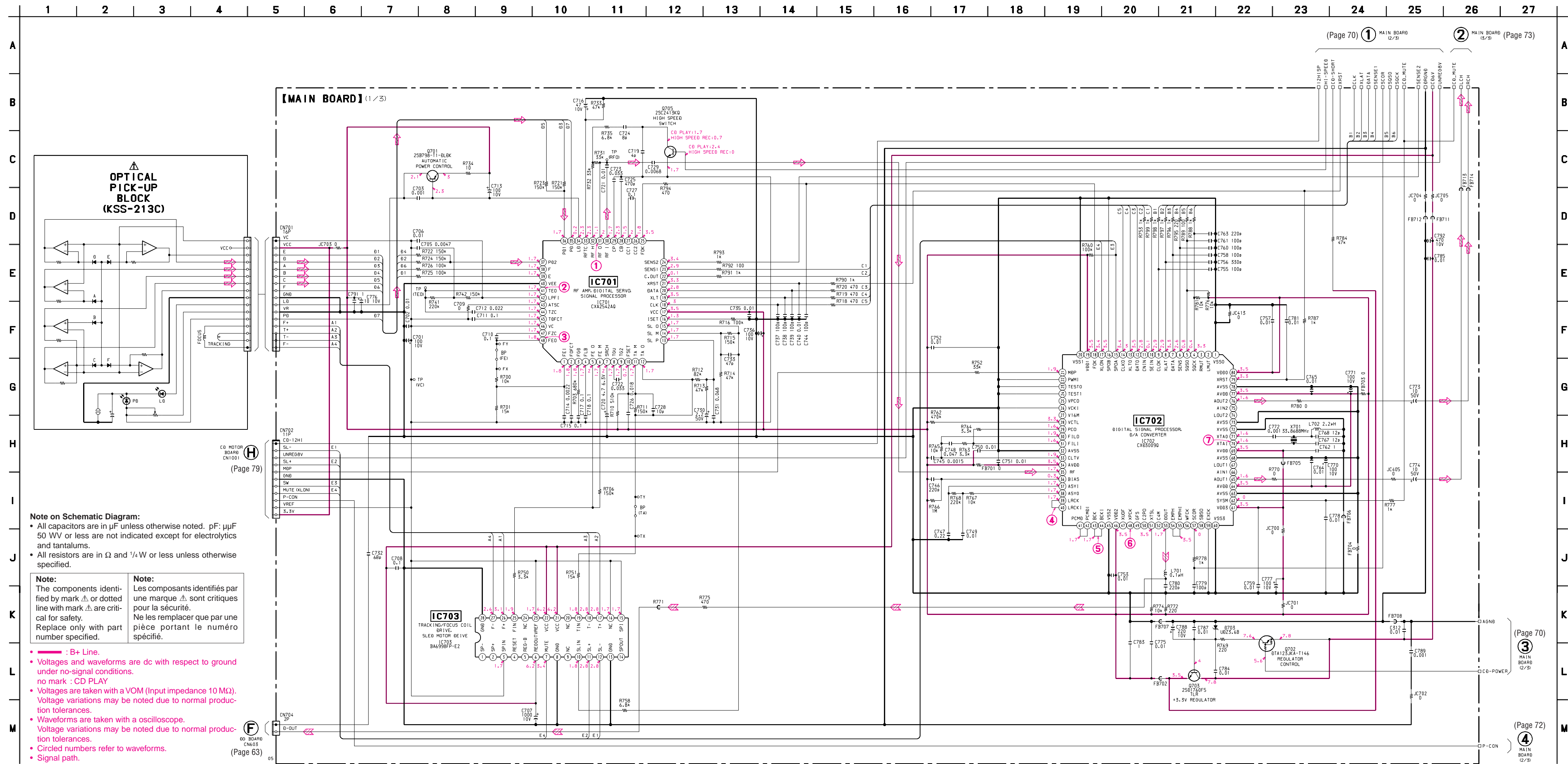
| Ref. No. | Location |
|----------|----------|
| D301     | B-10     |
| D302     | B-10     |
| D303     | I-4      |
| D304     | J-16     |
| D308     | D-17     |
| D309     | D-17     |
| D401     | H-11     |
| D402     | J-12     |
| D404     | B-2      |
| D407     | J-6      |
| D703     | I-15     |
|          |          |
| IC301    | C-14     |
| IC302    | J-14     |
| IC401    | J-10     |
| IC402    | H-11     |
| IC403    | G-9      |
| IC404    | H-12     |
| IC405    | F-6      |
| IC406    | B-12     |
| IC701    | F-3      |
| IC702    | H-3      |
| IC703    | D-15     |
|          |          |
| Q101     | J-4      |
| Q102     | J-4      |
| Q103     | I-3      |
| Q104     | B-15     |
| Q105     | C-1      |
| Q106     | I-1      |
| Q201     | J-3      |
| Q202     | J-3      |
| Q203     | I-4      |
| Q204     | B-15     |
| Q205     | C-1      |
| Q206     | I-2      |
| Q301     | J-5      |
| Q302     | K-4      |
| Q303     | J-13     |
| Q304     | K-13     |
| Q305     | B-2      |
| Q306     | C-2      |
| Q307     | J-2      |
| Q308     | J-1      |
| Q401     | C-13     |
| Q402     | J-11     |
| Q403     | J-6      |
| Q404     | C-7      |
| Q405     | C-10     |
| Q406     | D-6      |
| Q407     | H-6      |
| Q408     | J-6      |
| Q409     | J-6      |
| Q410     | B-10     |
| Q411     | B-7      |
| Q412     | H-7      |
| Q413     | B-16     |
| Q415     | B-12     |
| Q701     | G-15     |
| Q702     | I-15     |
| Q703     | H-16     |
| Q705     | D-4      |

**Note on Printed Wiring Boards:**  
 • — : parts extracted from the component side.  
 • — : parts extracted from the conductor side.  
 • ○ : Through hole.  
 • [Pattern] : Pattern from the side which enables seeing.  
 (The other layers' patterns are not indicated.)

**Caution:**  
 Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.  
 Conductor Side: Parts on the parts face side seen from the parts face are indicated.  
 Component Side: Parts on the parts face side seen from the parts face are indicated.



6-14. SCHEMATIC DIAGRAM – MAIN (CD) Section – • See page 100 for Waveforms. • See page 105 for IC Block Diagrams.



**Note on Schematic Diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{pF}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}W$  or less unless otherwise specified.

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

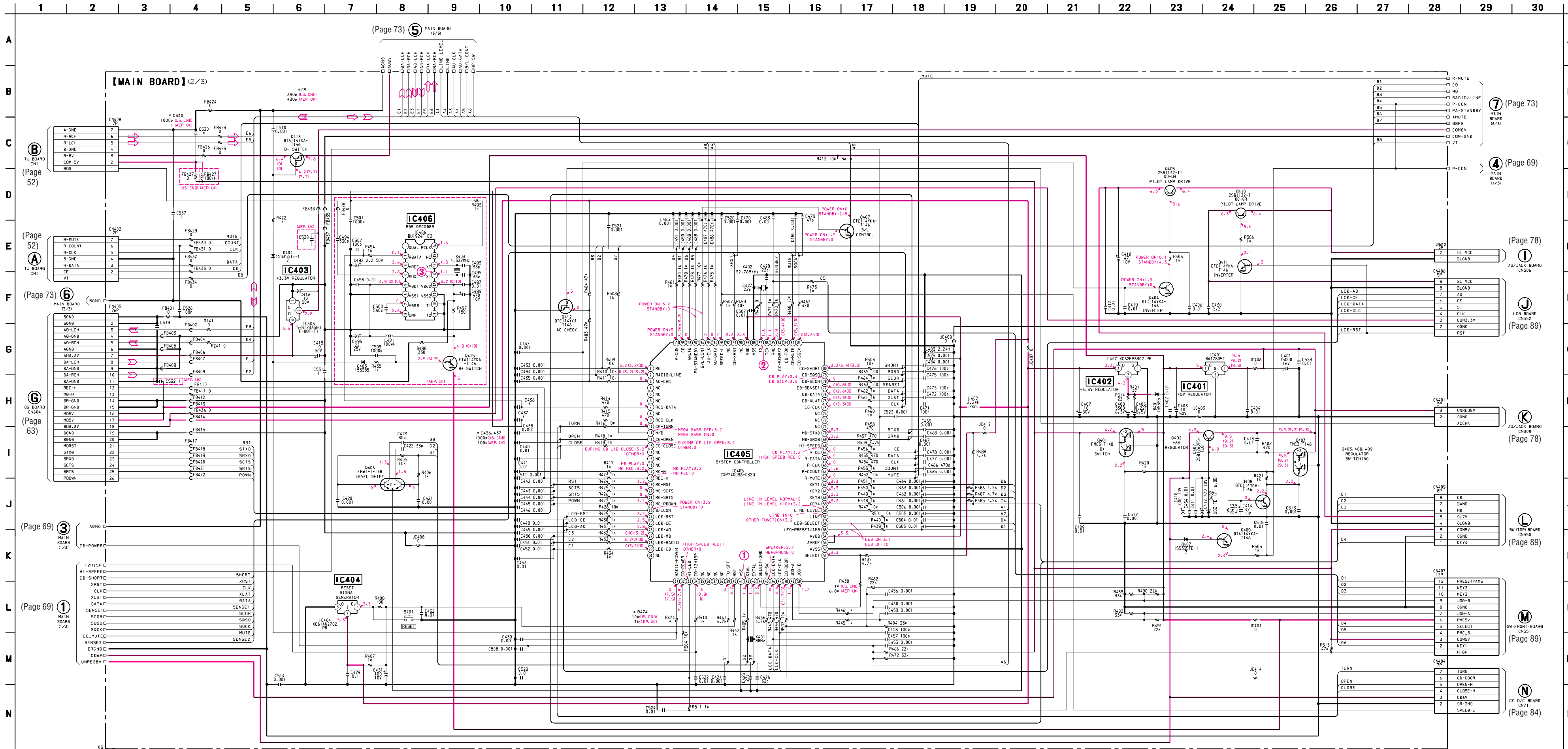
**Note:** Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions. no mark : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- : CD
- : MD REC

(Page 70) 1 MAIN BOARD (2/3) 2 MAIN BOARD (3/3) (Page 73)

(Page 70) 3 MAIN BOARD (2/3)

(Page 72) 4 MAIN BOARD (2/3)



Note on Schematic Diagram:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{pF}$  50 WV or less are not indicated except for electrolytics and tantalums.

- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.

- — : B+ Line.

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

- ( ) : CD PLAY
- [ ] : MD PLAY

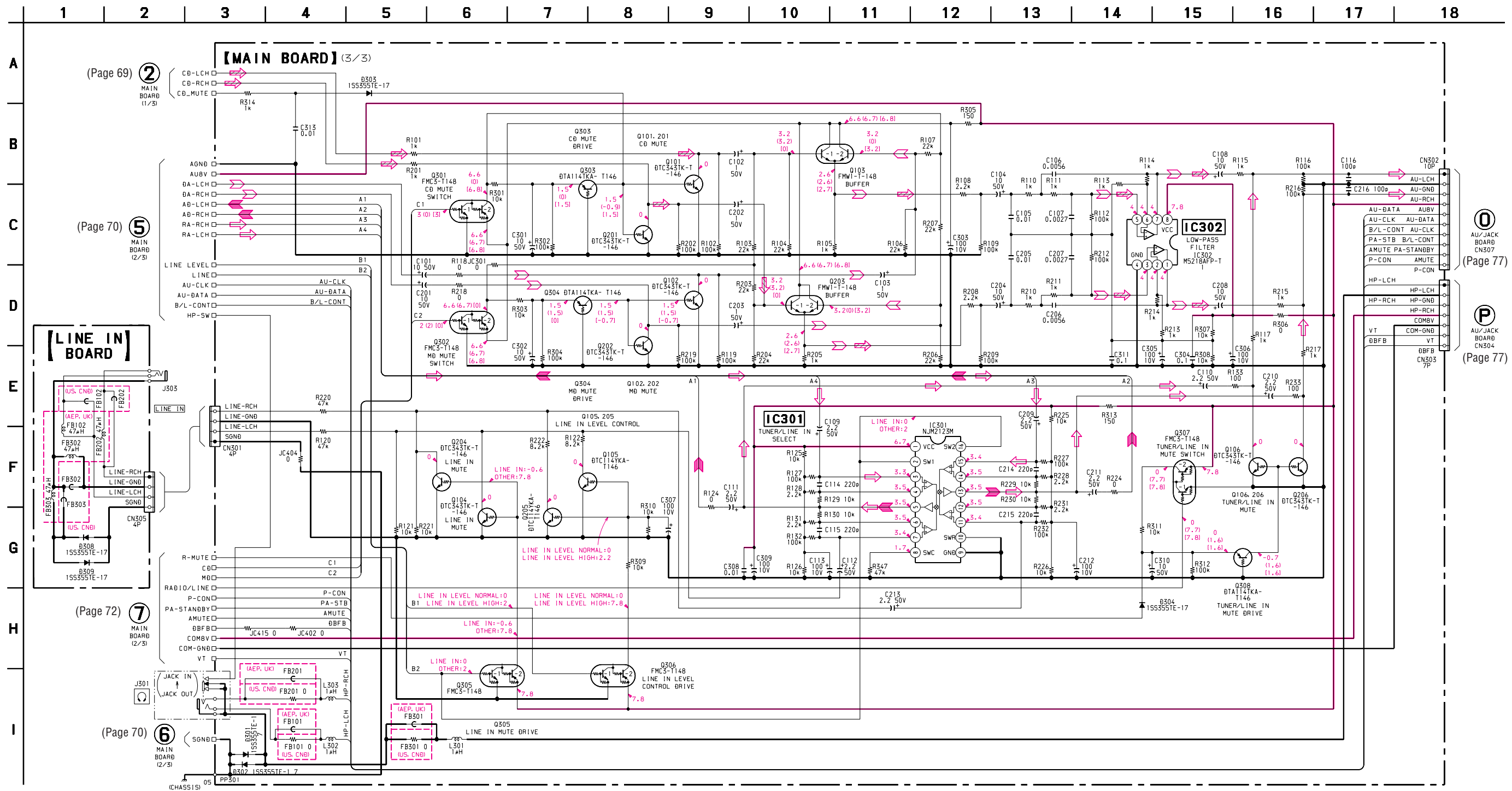
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.

- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.

- Circled numbers refer to waveforms.
- Signal path.
- ◻ : FM
- ◻ : MD PLAY
- ◻ : MD REC

- Abbreviation CND : Canadian model

6-16. SCHEMATIC DIAGRAM – MAIN (FUNCTION SELECT) Section –

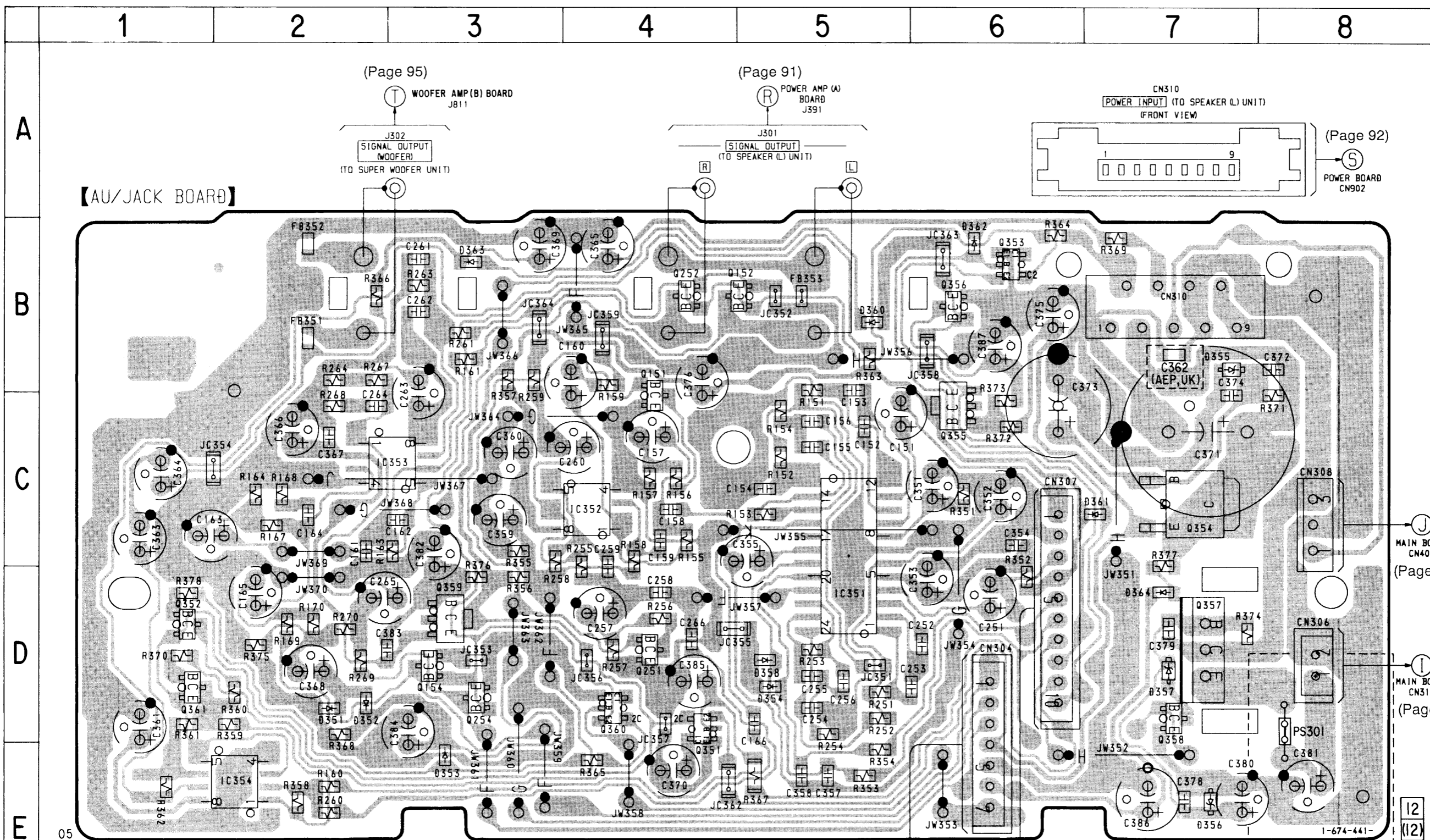


**Note on Schematic Diagram:**

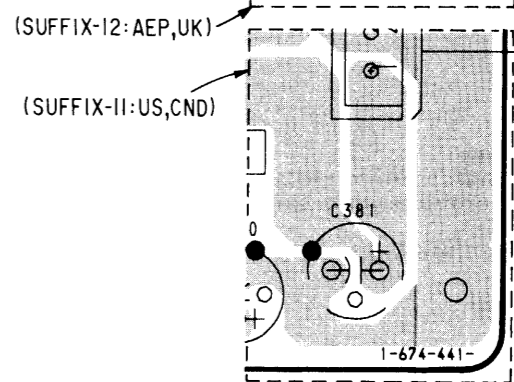
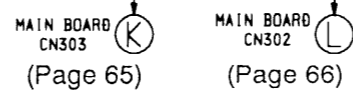
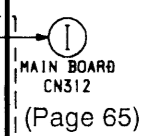
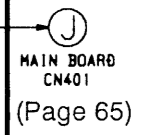
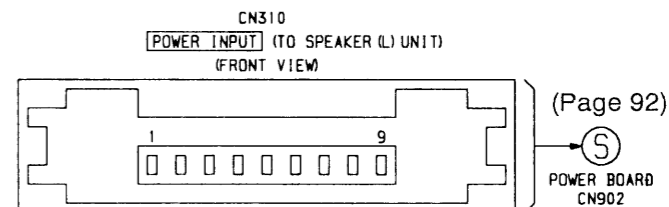
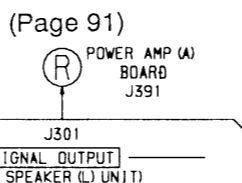
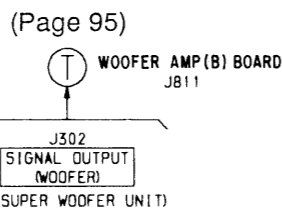
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}W$  or less unless otherwise specified.
- : panel designation.
- — : B+ Line.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.  
 no mark : FM/LINE IN  
 ( ) : CD PLAY  
 [ ] : MD PLAY

- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Signal path.  
→ : FM  
⇄ : CD  
⇄ : MD PLAY  
⇄ : MD REC
- Abbreviation  
 CND : Canadian model





【AU/JACK BOARD】



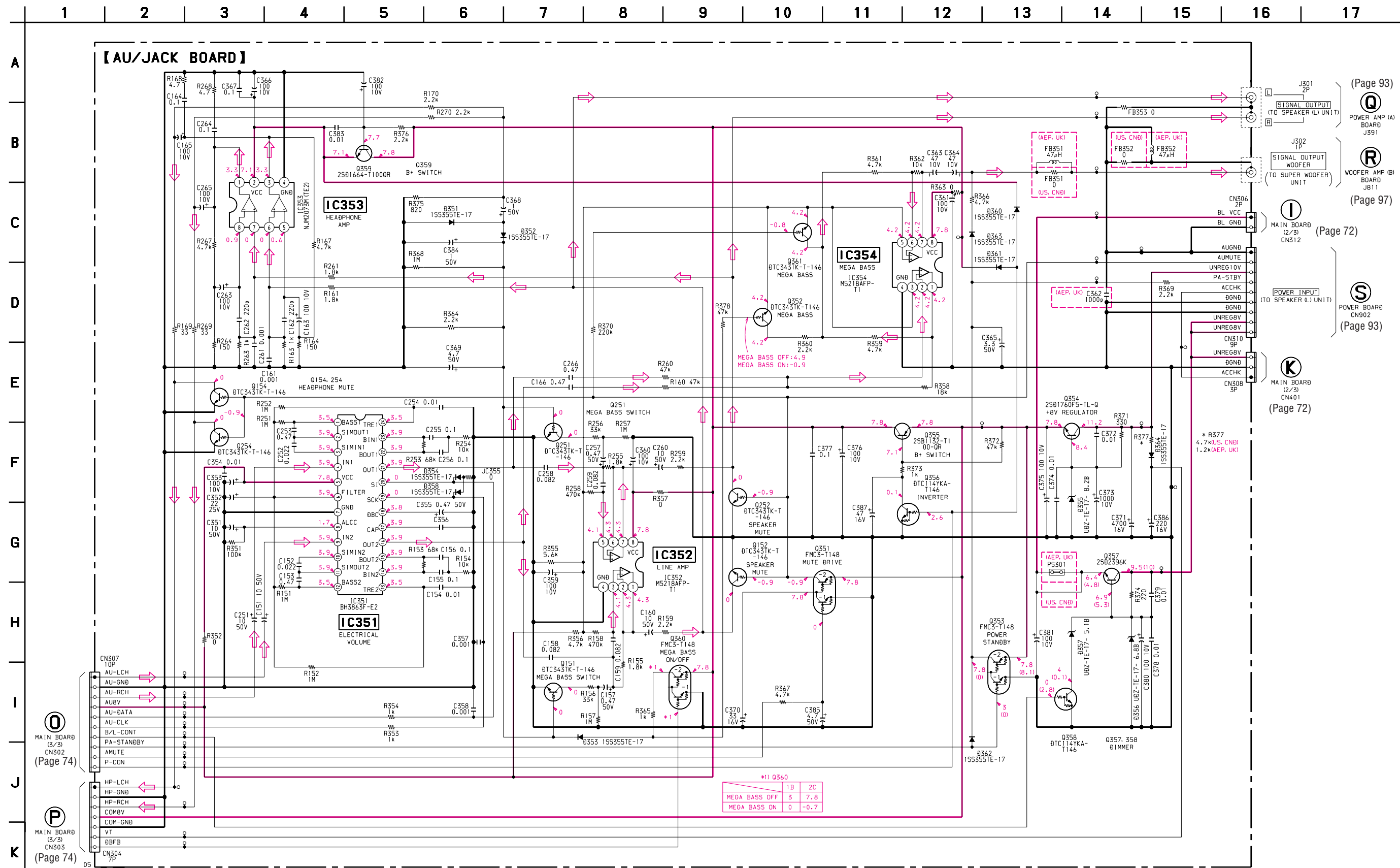
• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|
| D351     | D-2      | IC351    | C-5      | Q352     | D-1      |
| D352     | D-2      | IC352    | C-4      | Q353     | B-6      |
| D354     | D-5      | IC353    | C-3      | Q354     | C-7      |
| D353     | E-3      | IC354    | E-2      | Q355     | C-6      |
| D355     | B-7      |          |          | Q356     | B-6      |
| D356     | E-7      | Q151     | C-4      | Q357     | D-7      |
| D357     | D-7      | Q152     | B-5      | Q358     | D-7      |
| D360     | B-5      | Q154     | D-3      | Q359     | D-3      |
| D361     | C-7      | Q251     | D-4      | Q360     | D-4      |
| D362     | B-6      | Q252     | B-4      | Q361     | D-1      |
| D363     | B-3      | Q254     | D-3      |          |          |
| D364     | D-7      | Q351     | D-4      |          |          |

**Note on Printed Wiring Board:**

- — : parts extracted from the component side.
- : parts extracted from the conductor side.
- ▨ : Pattern from the side which enables seeing.
- Abbreviation
- CND : Canadian model

6-18. SCHEMATIC DIAGRAM – AUDIO/JACK Section – • See page 107 for IC Block Diagram.

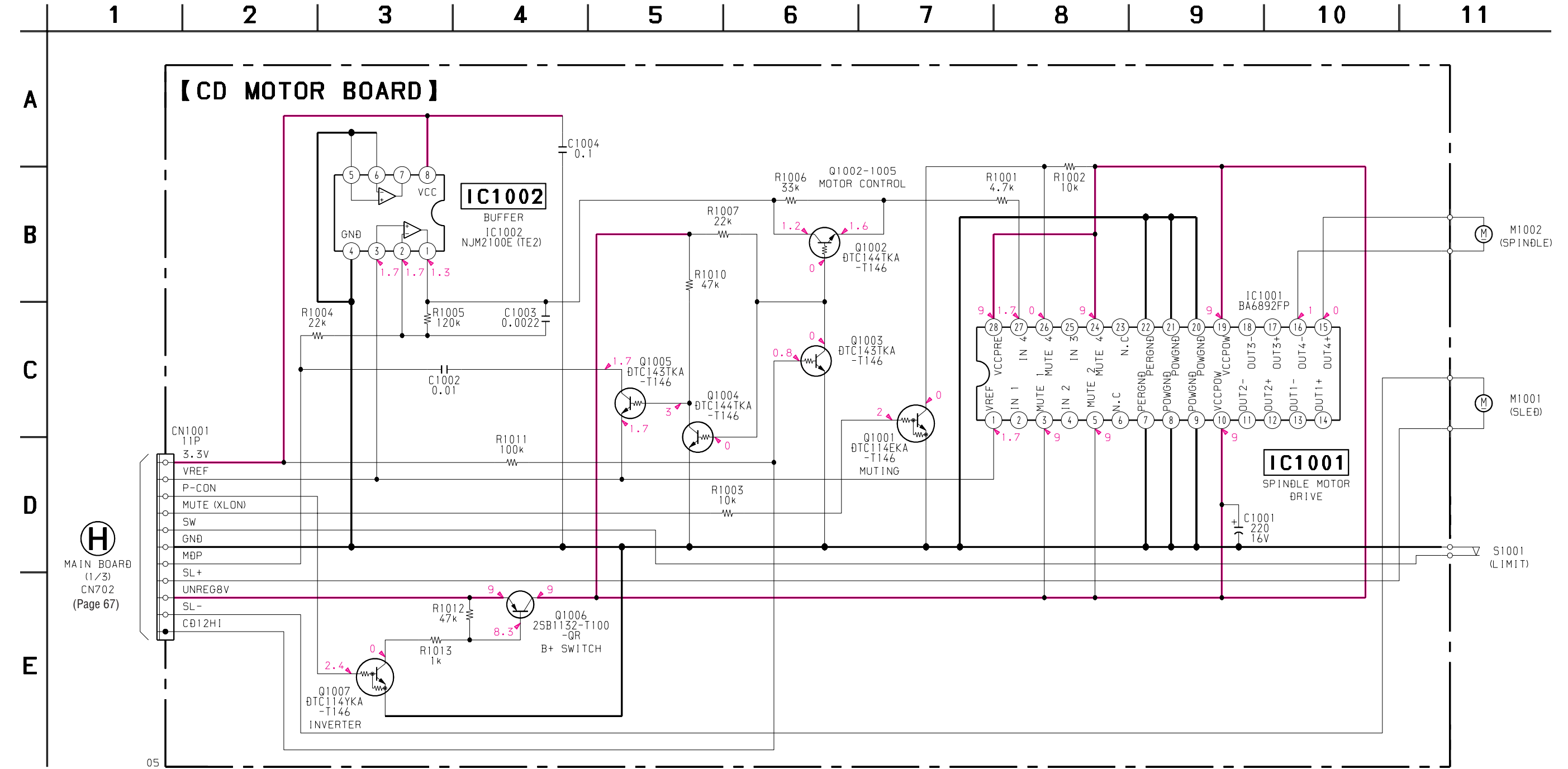


Note on Schematic Diagram:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{pF}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- : panel designation.
- : B+ Line.
- Voltages are dc with respect to ground under no-signal conditions.

- no mark : POWER ON ( ) : STANDBY
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- FM
- Abbreviation
- CND : Canadian model

6-19. SCHEMATIC DIAGRAM – CD MOTOR Section – • See page 107 for IC Block Diagram.

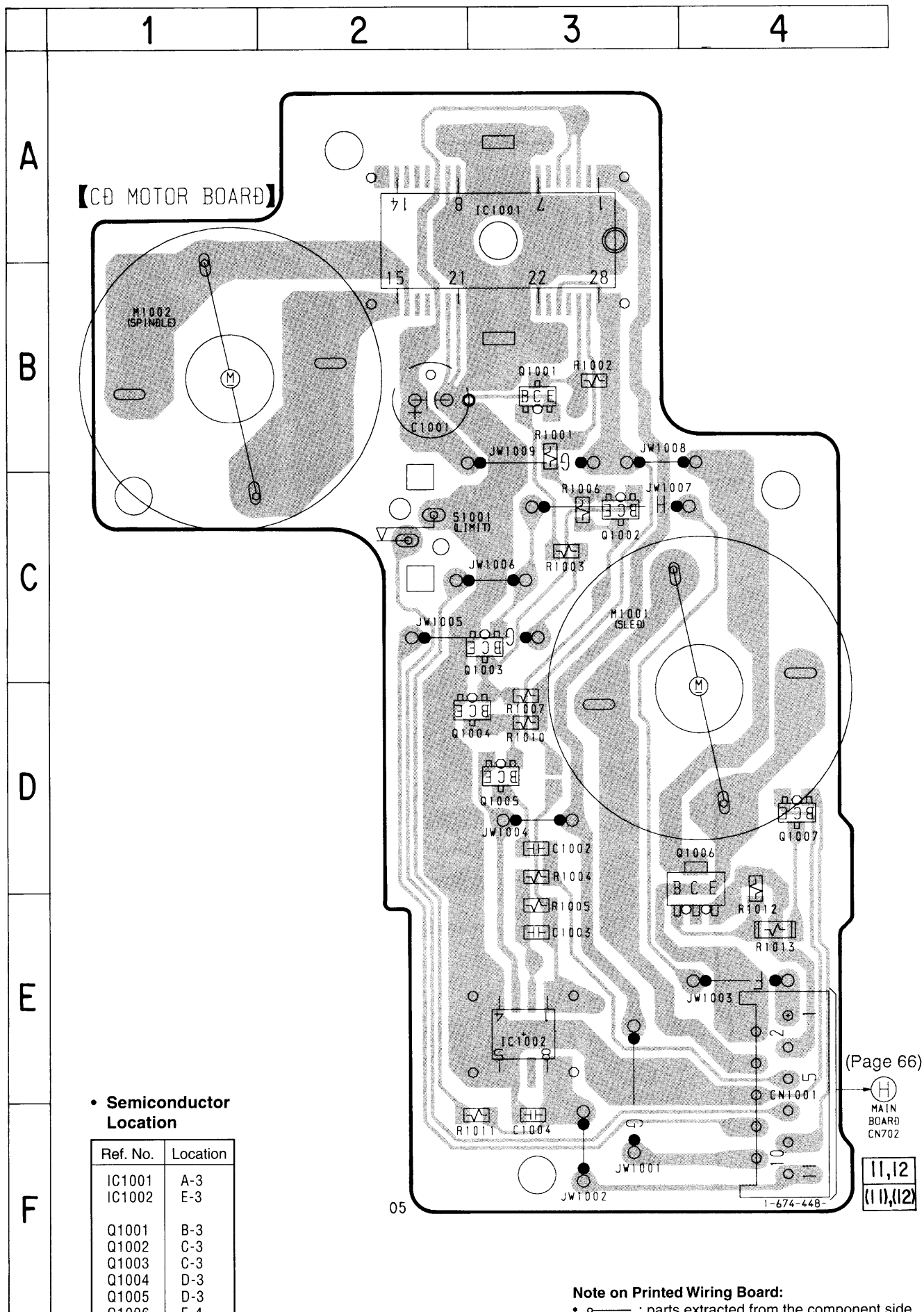


**Note on Schematic Diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{pF}$
- 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}W$  or less unless otherwise specified.
- **—** : B+ Line.
- Voltages are dc with respect to ground under no-signal conditions.
- no mark : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.

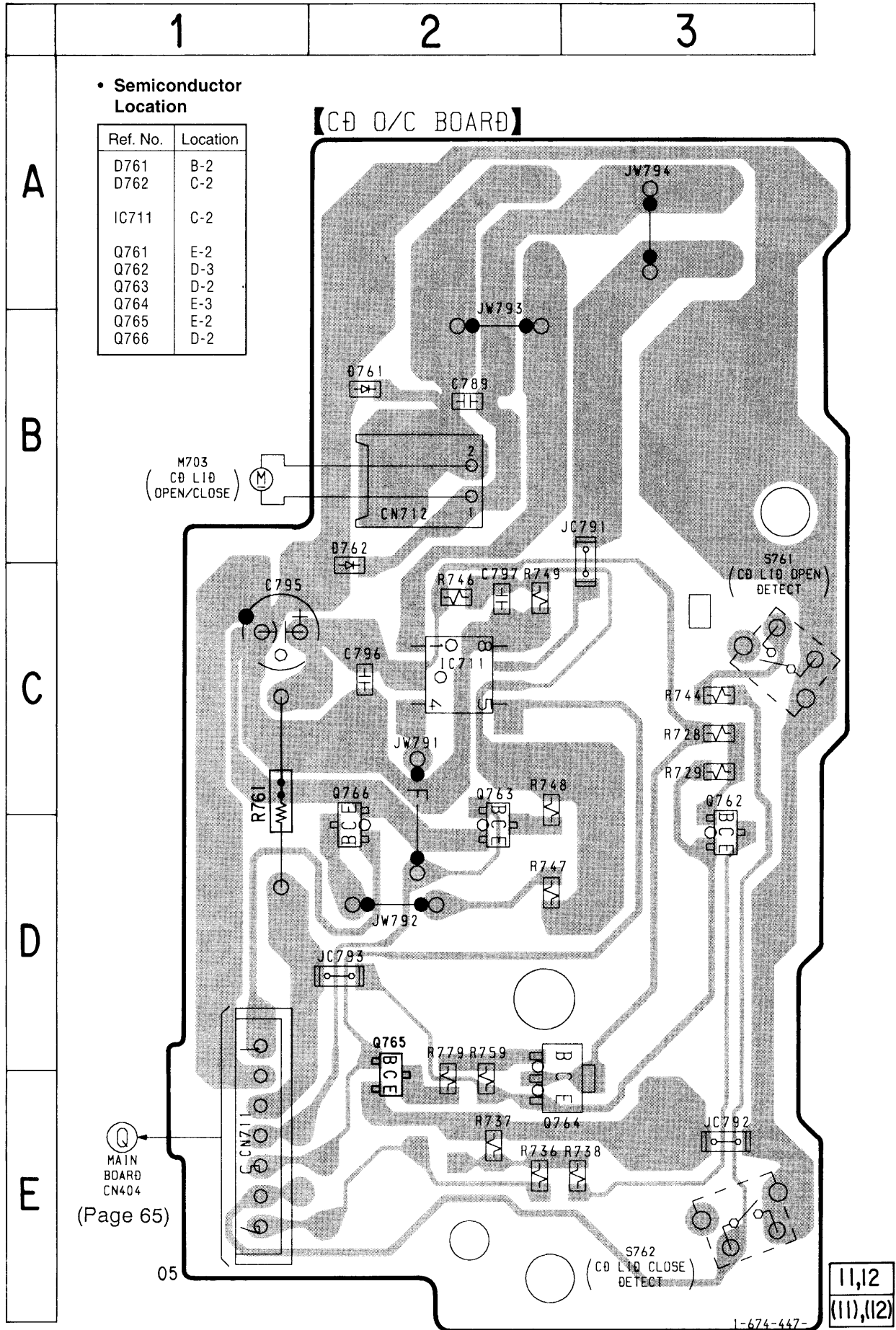
6-20. PRINTED WIRING BOARD – CD MOTOR Section –

• See page 47 for Circuit Boards Location.



6-21. PRINTED WIRING BOARD – CD OPEN/CLOSE Section –

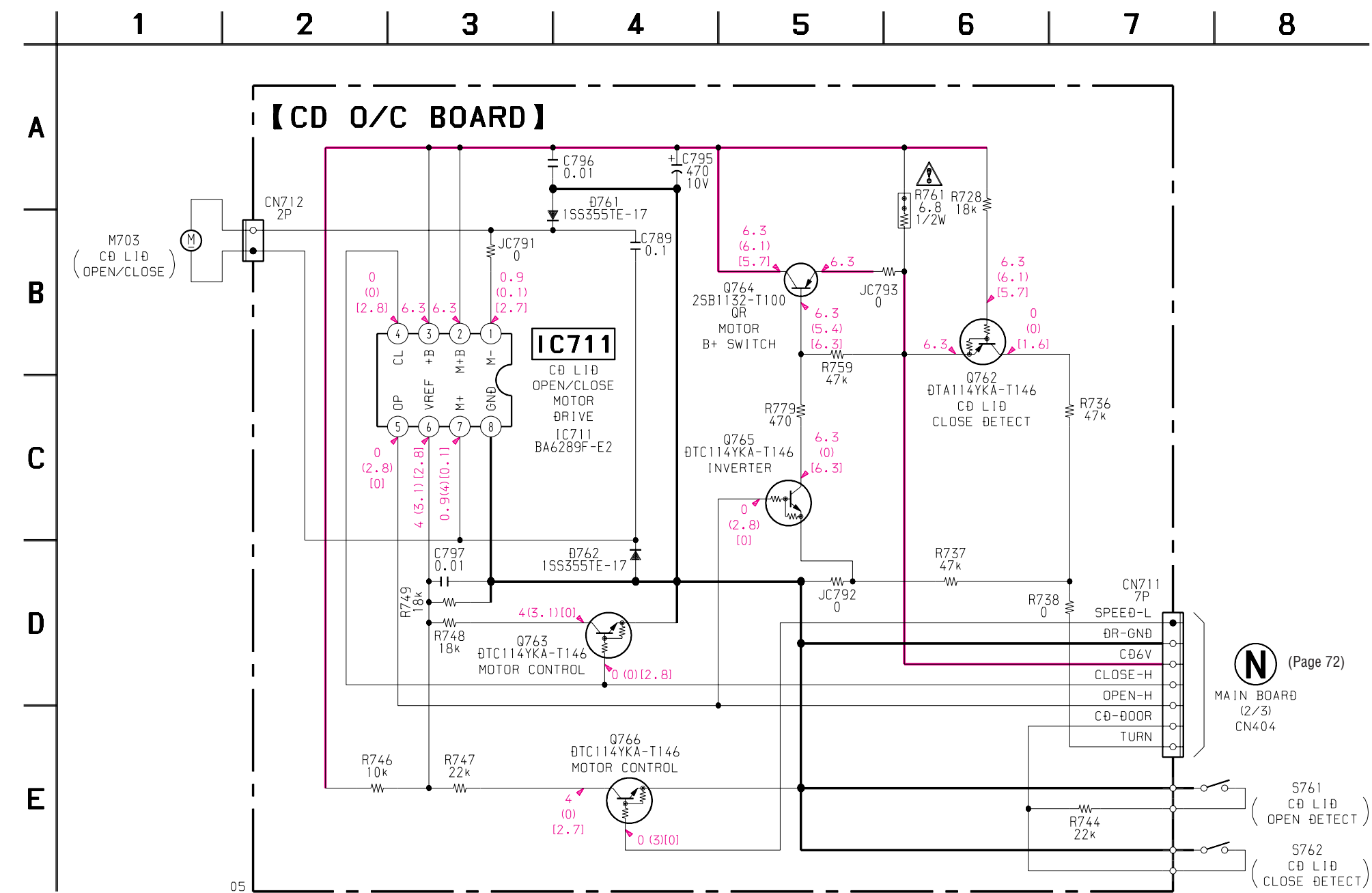
• See page 47 for Circuit Boards Location.



**Note on Printed Wiring Board:**

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- ▨ : Pattern from the side which enables seeing.

6-22. SCHEMATIC DIAGRAM – CD OPEN/CLOSE Section – • See page 107 for IC Block Diagram.



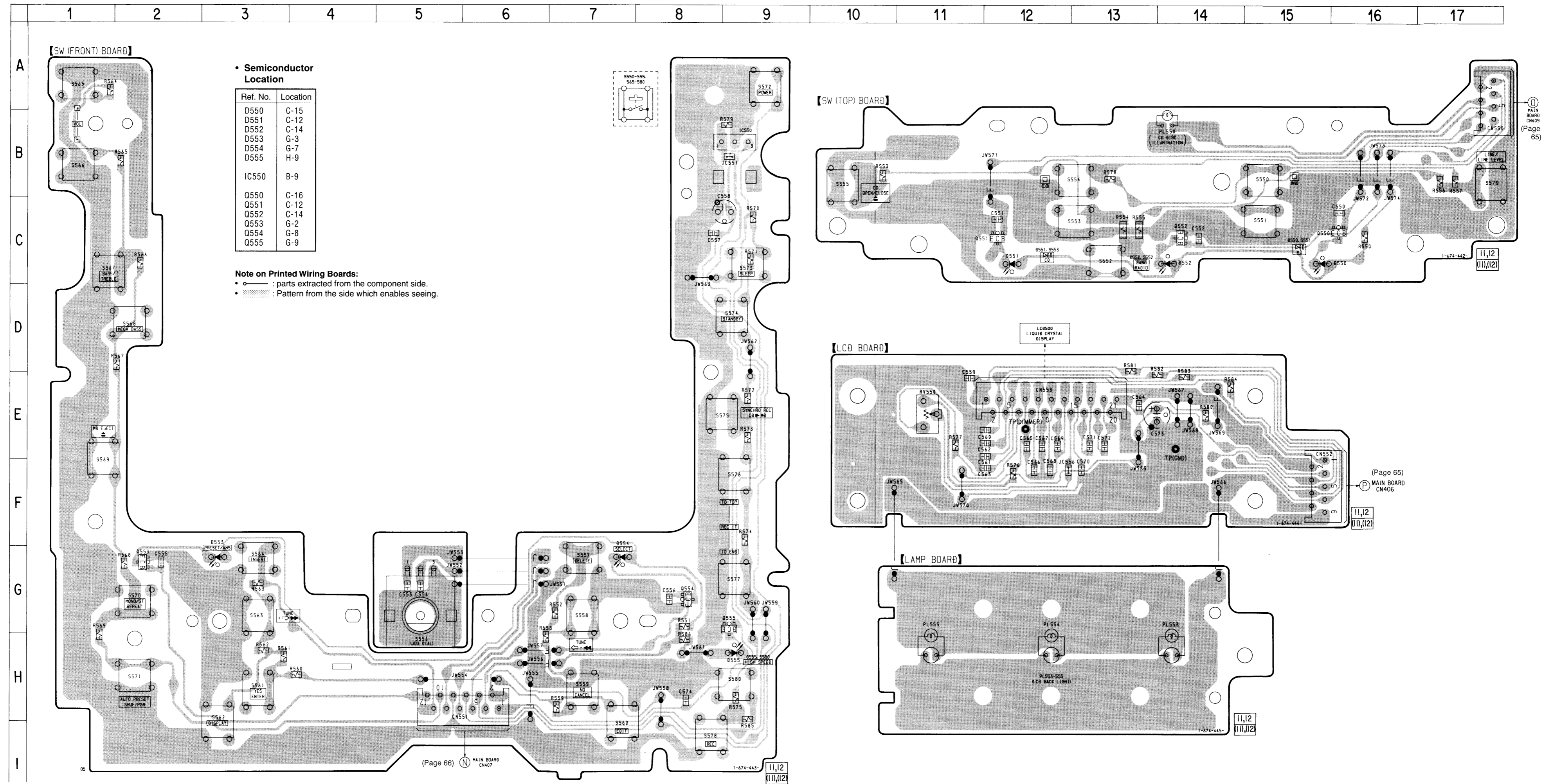
**Note on Schematic Diagram:**

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

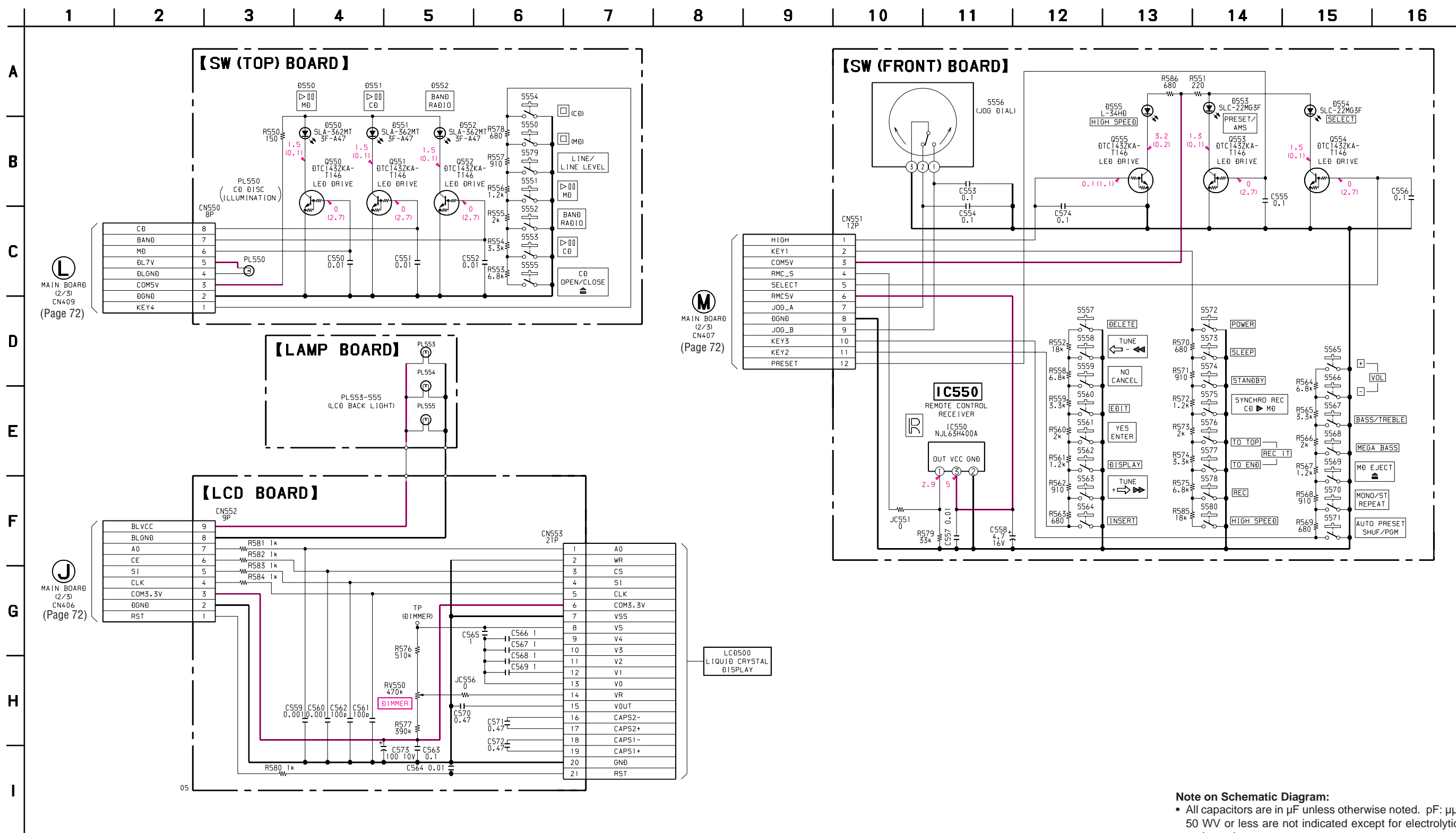
|                                                                                                                                                                                                  |                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Note:</b><br/>The components identified by mark <math>\Delta</math> or dotted line with mark <math>\Delta</math> are critical for safety.<br/>Replace only with part number specified.</p> | <p><b>Note:</b><br/>Les composants identifiés par une marque <math>\Delta</math> sont critiques pour la sécurité.<br/>Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- : B+ Line.
- Voltages are dc with respect to ground under no-signal conditions.  
no mark : CD LID CLOSE  
( ) : DURING CD LID OPEN  
[ ] : DURING CD LID CLOSE
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ).  
Voltage variations may be noted due to normal production tolerances.

6-23. PRINTED WIRING BOARDS – PANEL Section – • See page 47 for Circuit Boards Location.

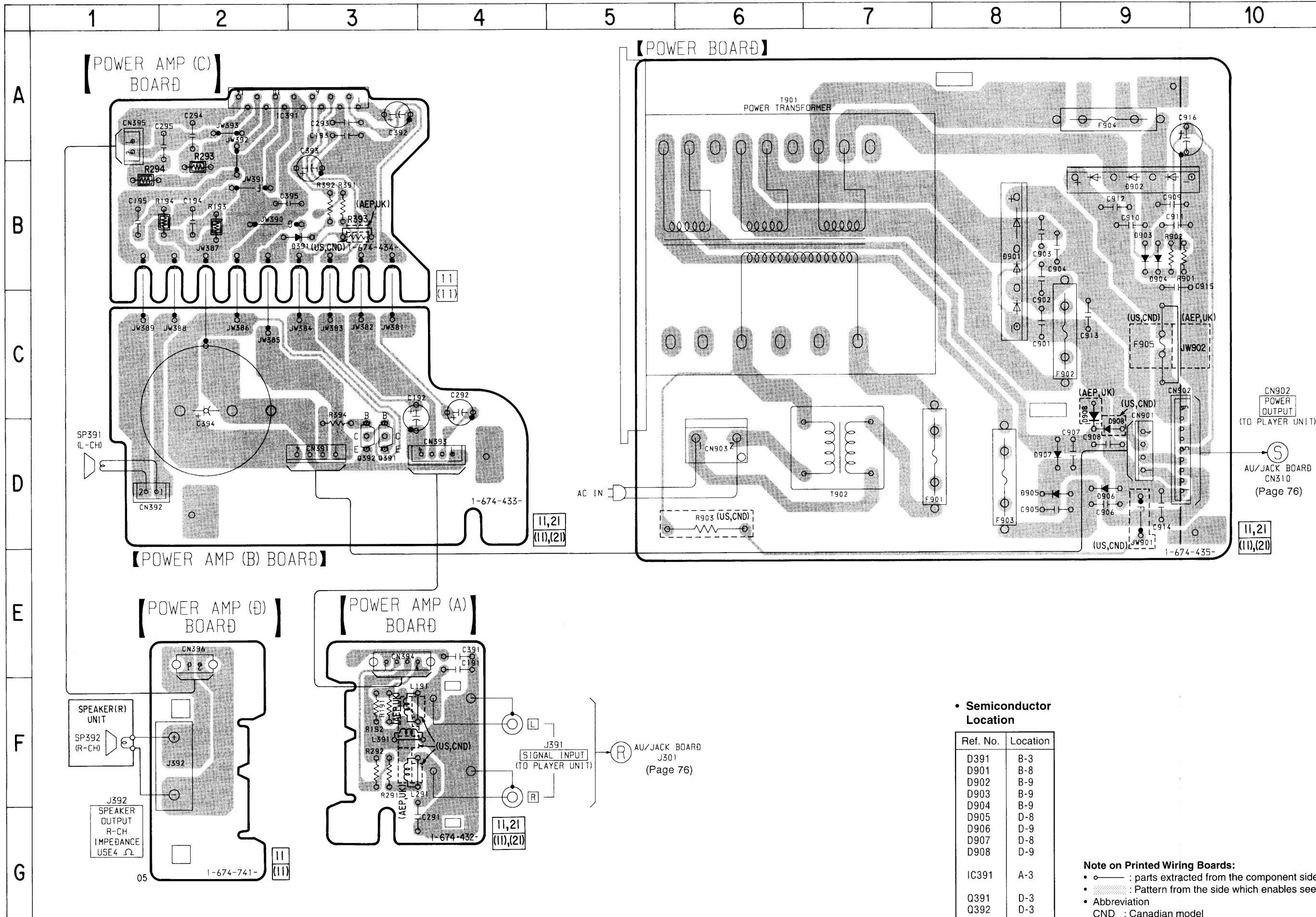


6-24. SCHEMATIC DIAGRAM – PANEL Section –





6-25. PRINTED WIRING BOARDS – POWER AMP/POWER Section – • See page 47 for Circuit Boards Location.

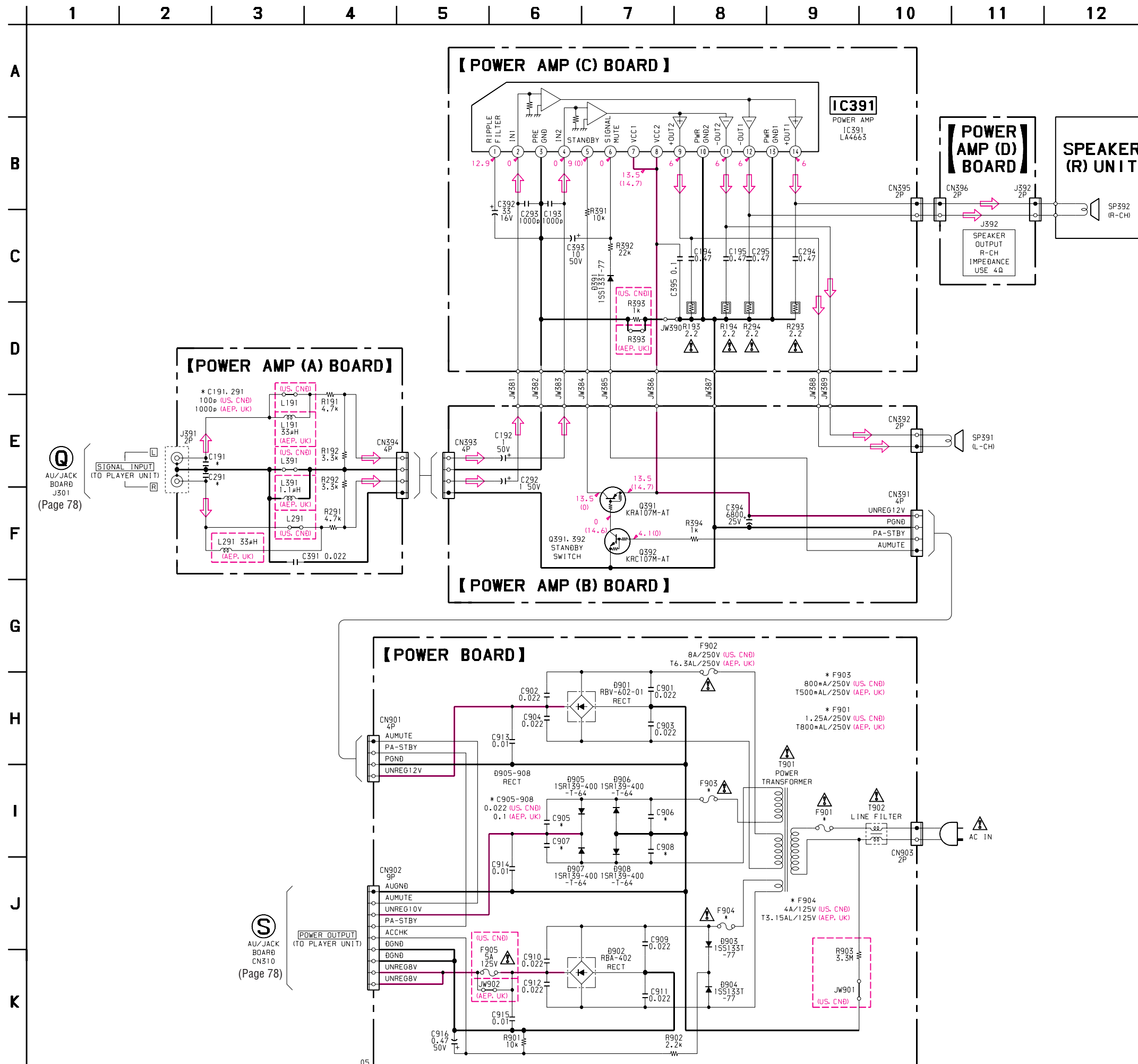


• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D391     | B-3      |
| D901     | B-8      |
| D902     | B-9      |
| D903     | B-9      |
| D904     | B-9      |
| D905     | D-8      |
| D906     | D-9      |
| D907     | D-8      |
| D908     | D-9      |
| IC391    | A-3      |
| Q391     | D-3      |
| Q392     | D-3      |

**Note on Printed Wiring Boards:**  
 • — : parts extracted from the component side.  
 • : Pattern from the side which enables seeing.  
 • Abbreviation  
 CND : Canadian model

6-26. SCHEMATIC DIAGRAM – POWER AMP/POWER Section –



Q AU/JACK BOARD J501 (Page 78)

S AU/JACK BOARD CN310 (Page 78)

**Note on Schematic Diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- : nonflammable resistor.
- : panel designation.

**Note:**

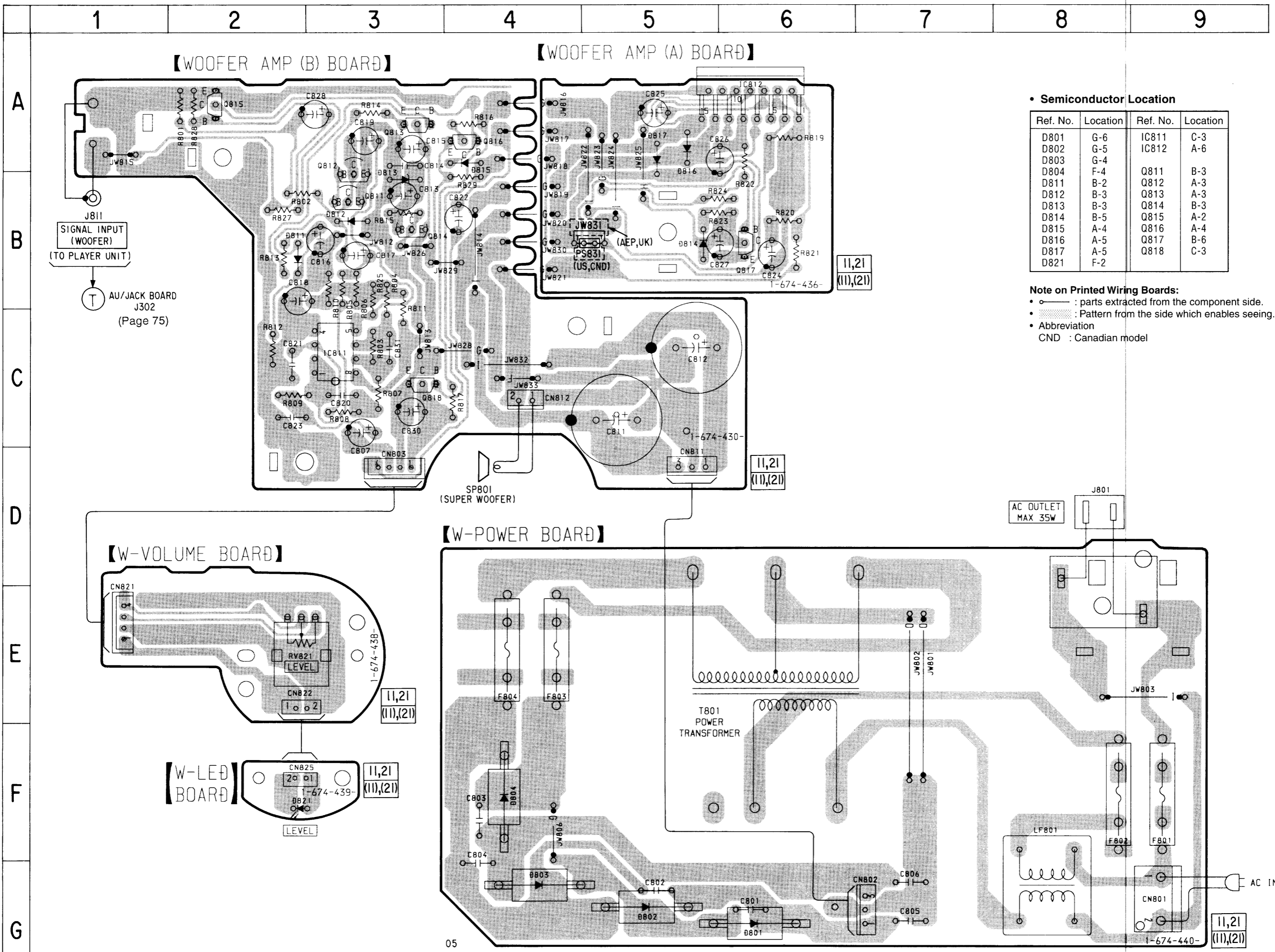
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:**

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

- : B+ Line.
- Voltages are dc with respect to ground under no-signal conditions.
  - no mark : POWER ON
  - ( ) : STANDBY
- Voltages are taken with a VOM (Input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- Abbreviation
- : FM
- CND : Canadian model

6-27. PRINTED WIRING BOARDS – SUPER WOOFER Section – • See page 48 for Circuit Boards Location.



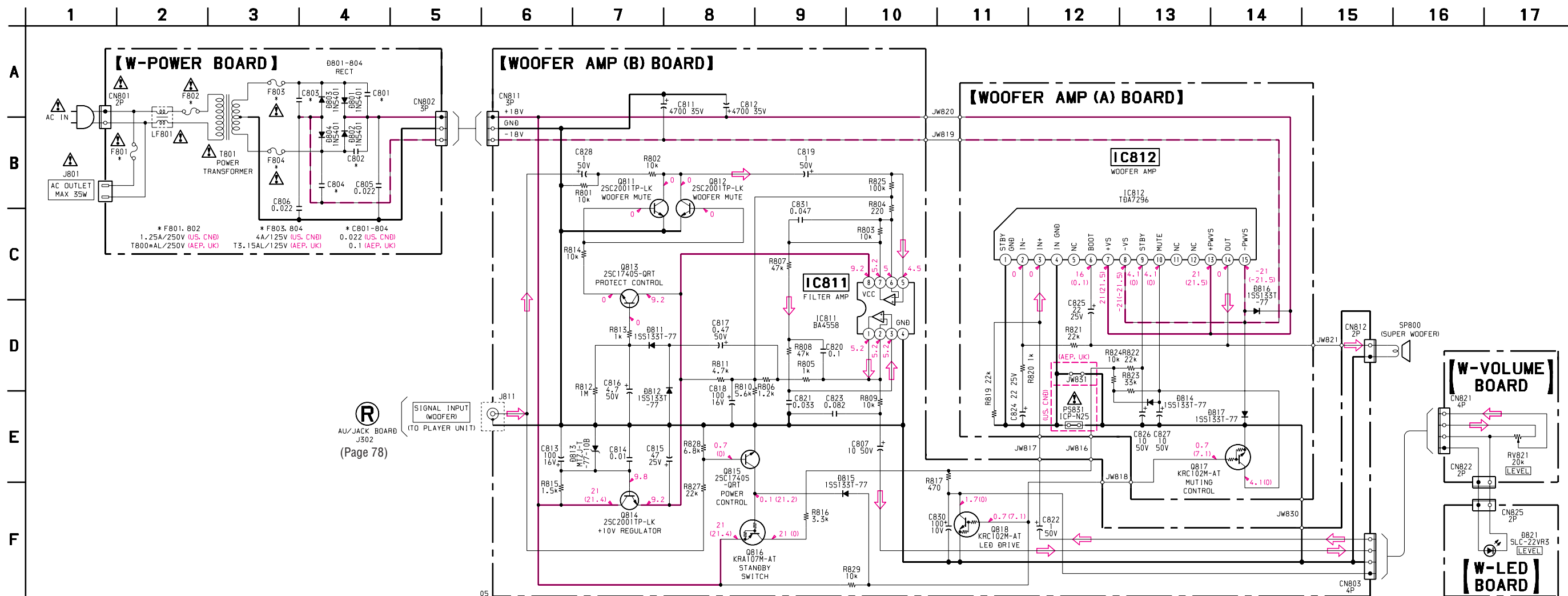
• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D801     | G-6      | IC811    | C-3      |
| D802     | G-5      | IC812    | A-6      |
| D803     | G-4      |          |          |
| D804     | F-4      | Q811     | B-3      |
| D811     | B-2      | Q812     | A-3      |
| D812     | B-3      | Q813     | A-3      |
| D813     | B-3      | Q814     | B-3      |
| D814     | B-5      | Q815     | A-2      |
| D815     | A-4      | Q816     | A-4      |
| D816     | A-5      | Q817     | B-6      |
| D817     | A-5      | Q818     | C-3      |
| D821     | F-2      |          |          |

Note on Printed Wiring Boards:

- : parts extracted from the component side.
- ▨ : Pattern from the side which enables seeing.
- Abbreviation
- CND : Canadian model

6-28. SCHEMATIC DIAGRAM – SUPER WOOFER Section – • See page 107 for IC Block Diagram.



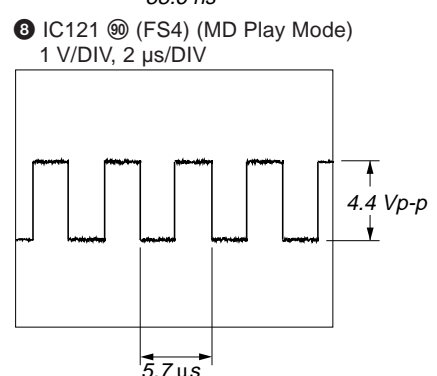
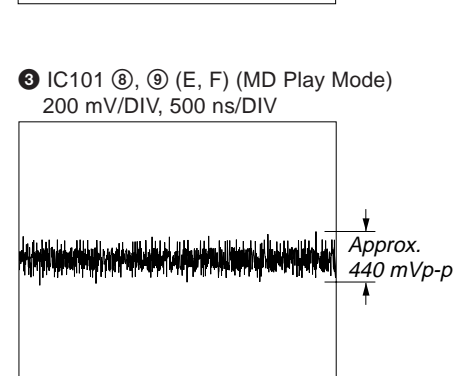
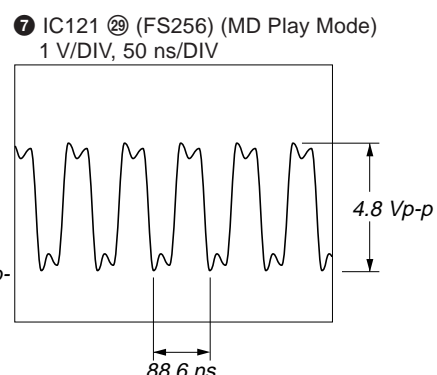
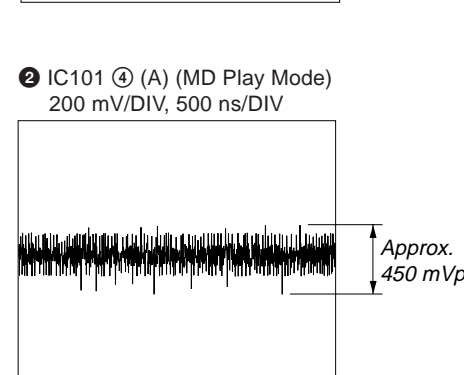
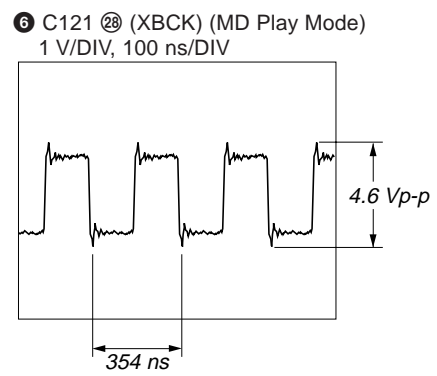
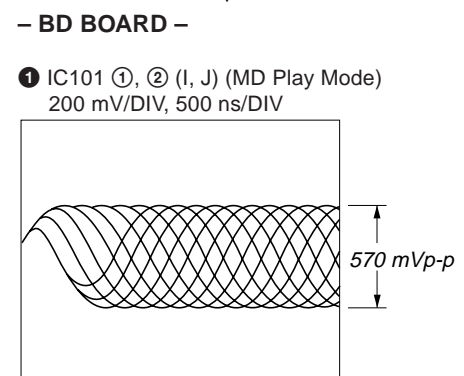
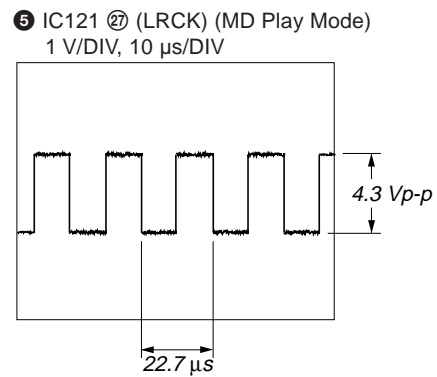
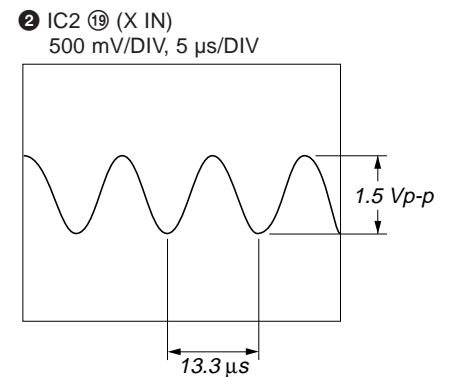
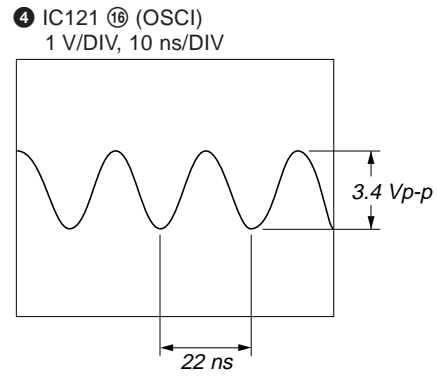
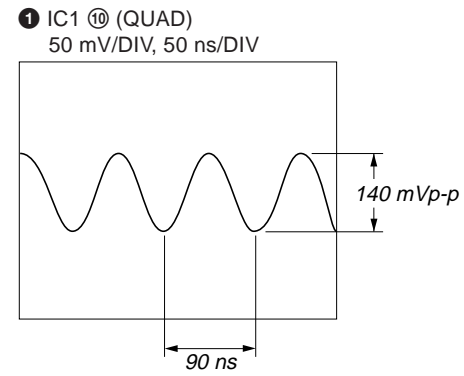
**Note on Schematic Diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{ W}$  or less unless otherwise specified.
- : panel designation.

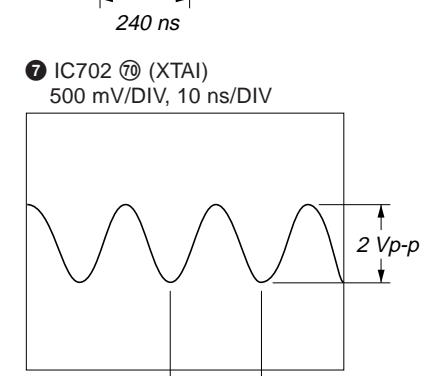
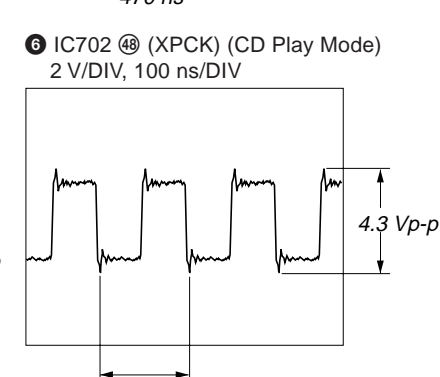
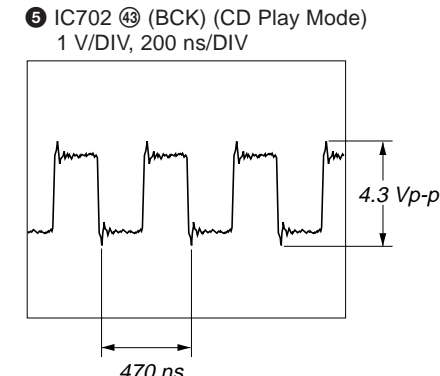
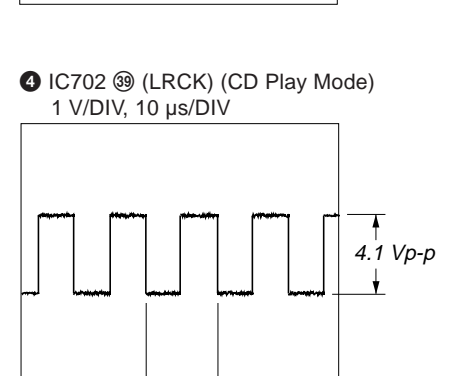
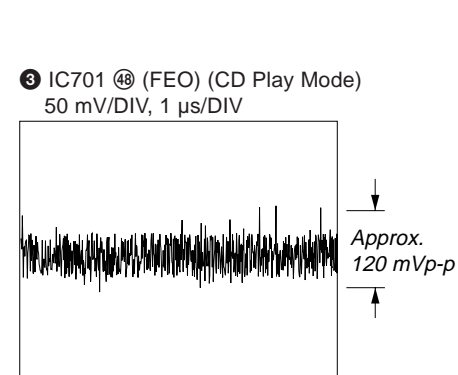
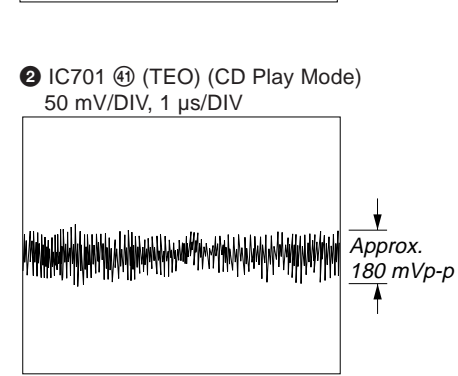
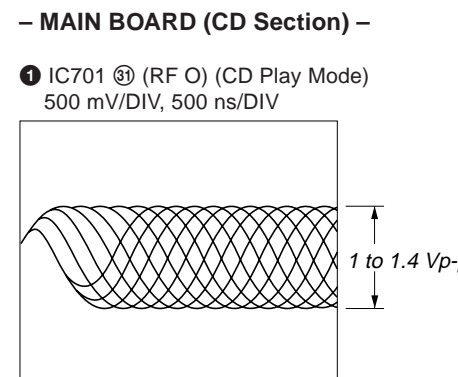
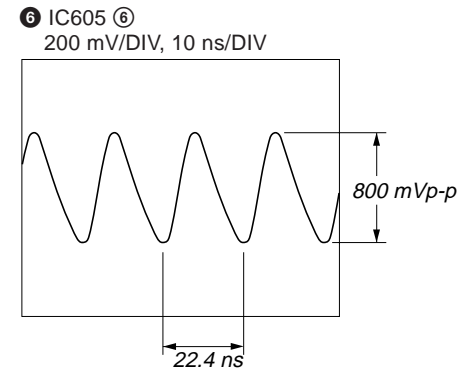
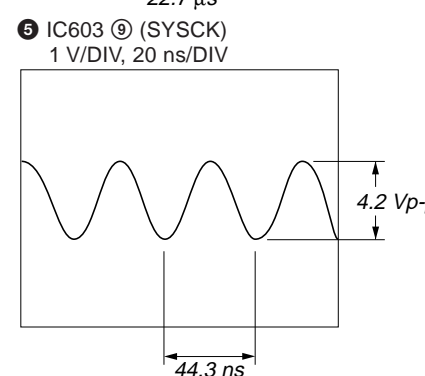
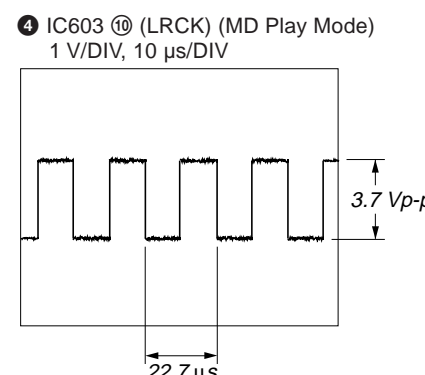
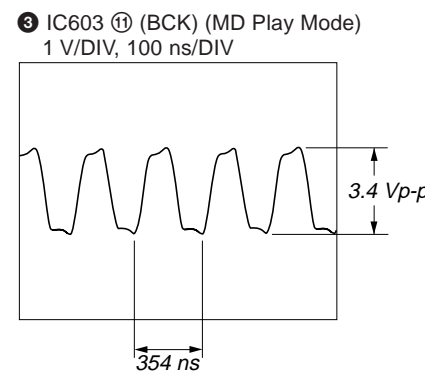
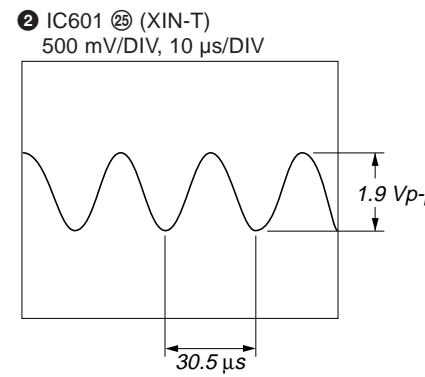
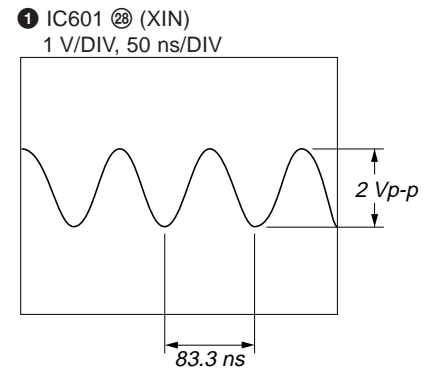
|                                                                                                                                                                                                    |                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Note:</b><br/>The components identified by mark <math>\triangle</math> or dotted line with mark <math>\triangle</math> are critical for safety. Replace only with part number specified.</p> | <p><b>Note:</b><br/>Les composants identifiés par une marque <math>\triangle</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- — : B+ Line.
- - - - : B- Line.
- Voltages are dc with respect to ground under no-signal conditions.  
no mark : SIGNAL IN (POWER ON)  
( ) : STANDBY
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Signal path  
→ : FM
- Abbreviation  
 CND : Canadian model

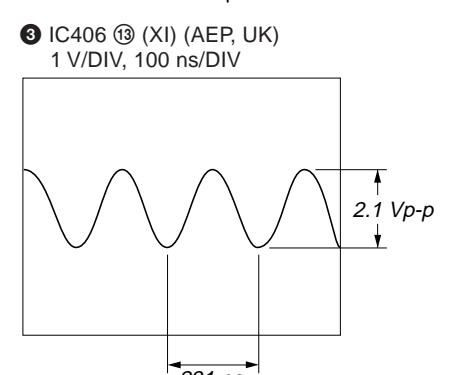
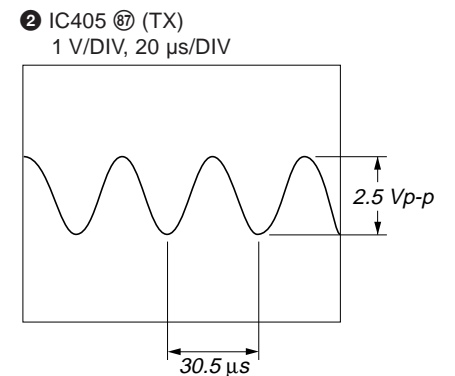
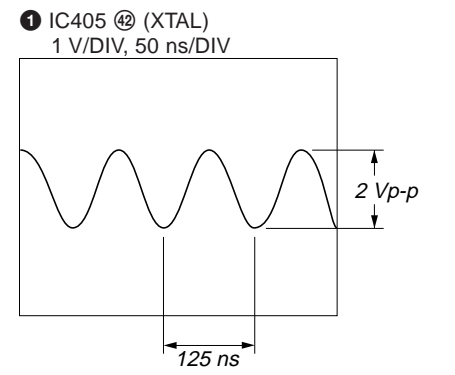
• Waveforms  
– TU BOARD –



– DG BOARD –

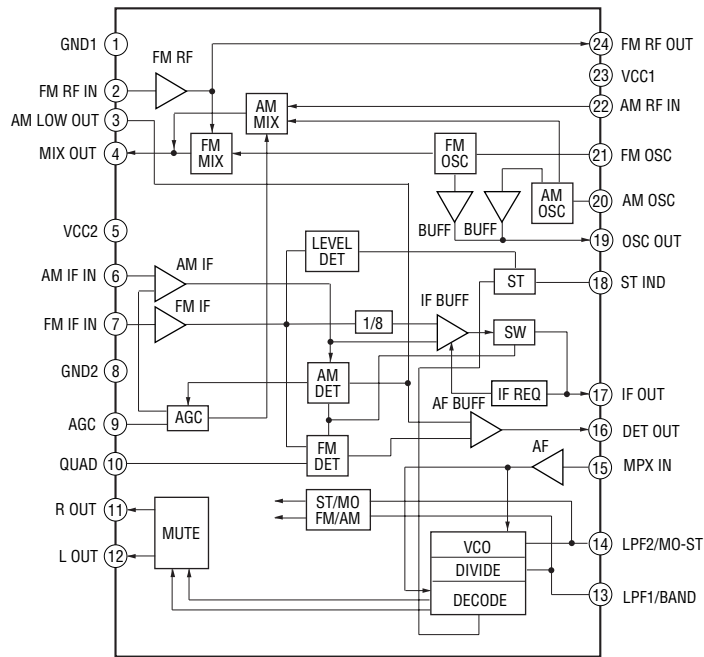


– MAIN BOARD (SYSTEM CONTROL Section) –

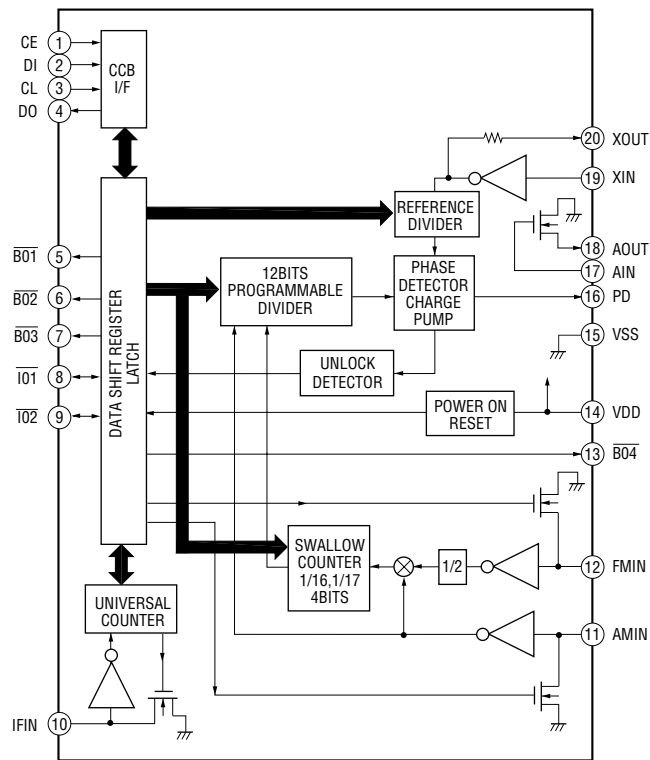


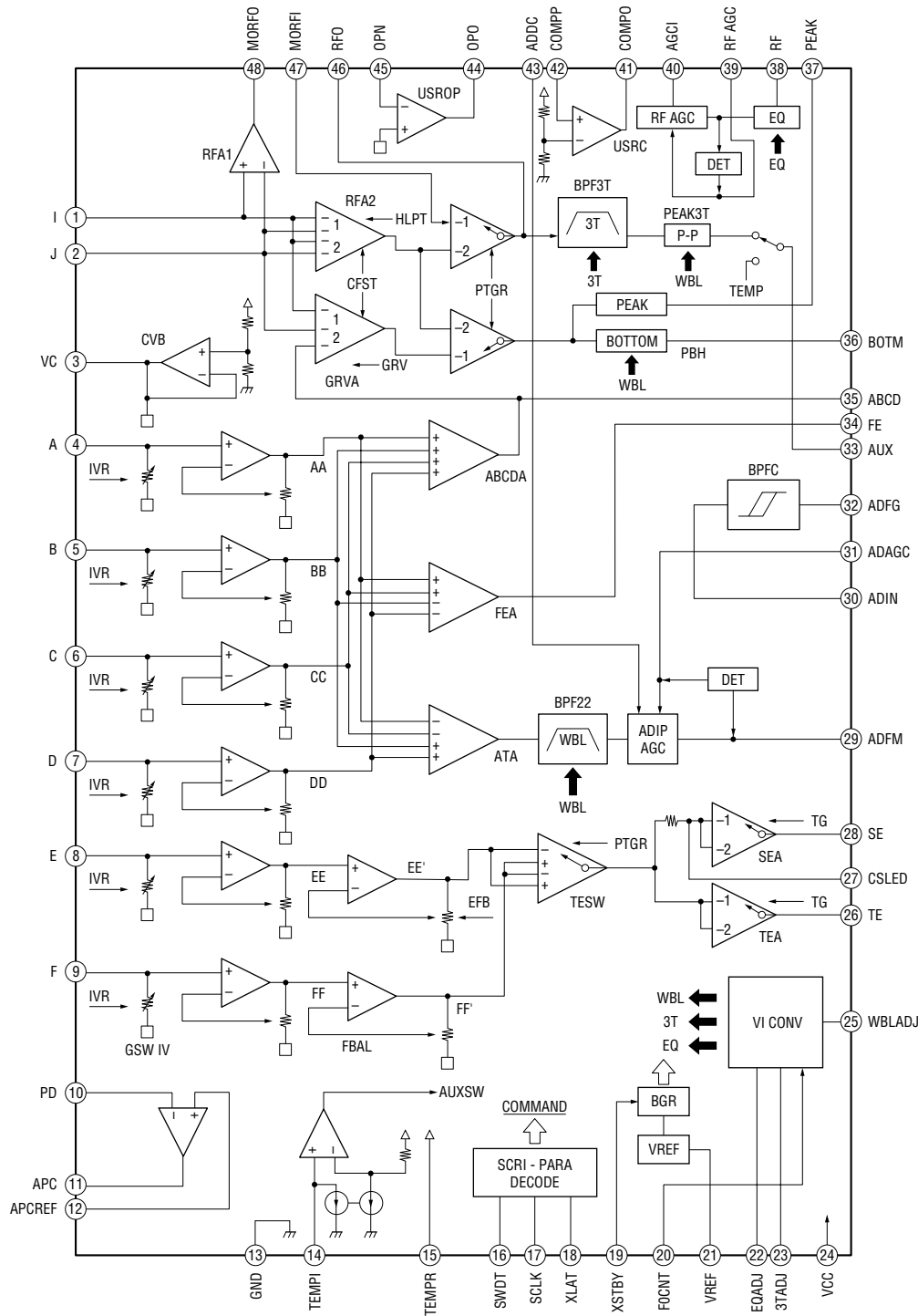
• IC Block Diagrams  
 –TU Board –

IC1 TA2104AN

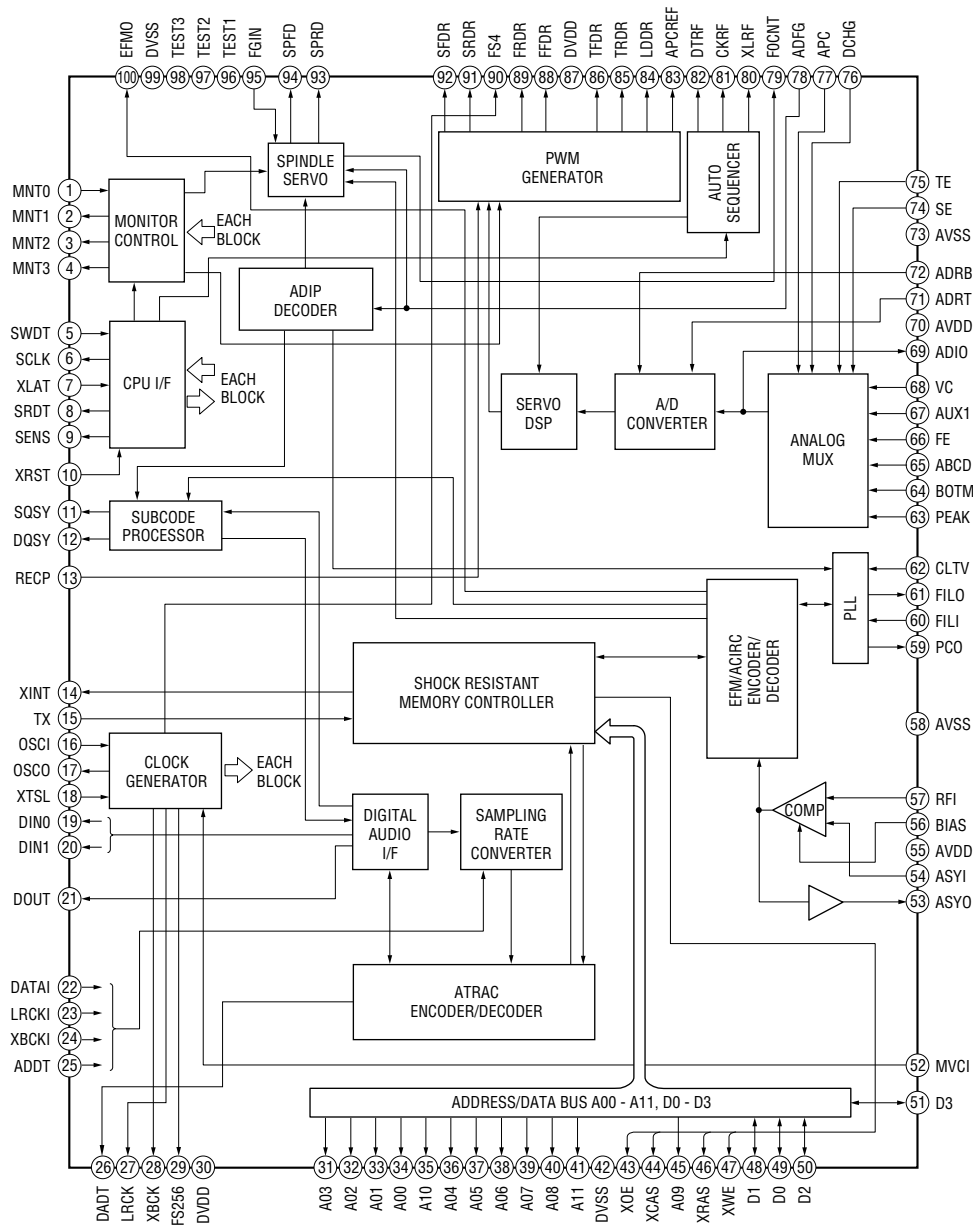


IC2 LC72137M-TLM

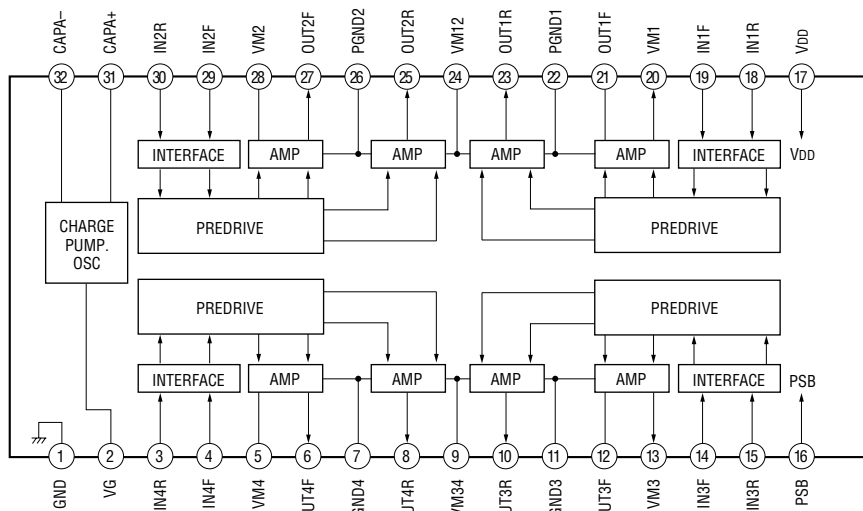




**IC121 CXD2654R**



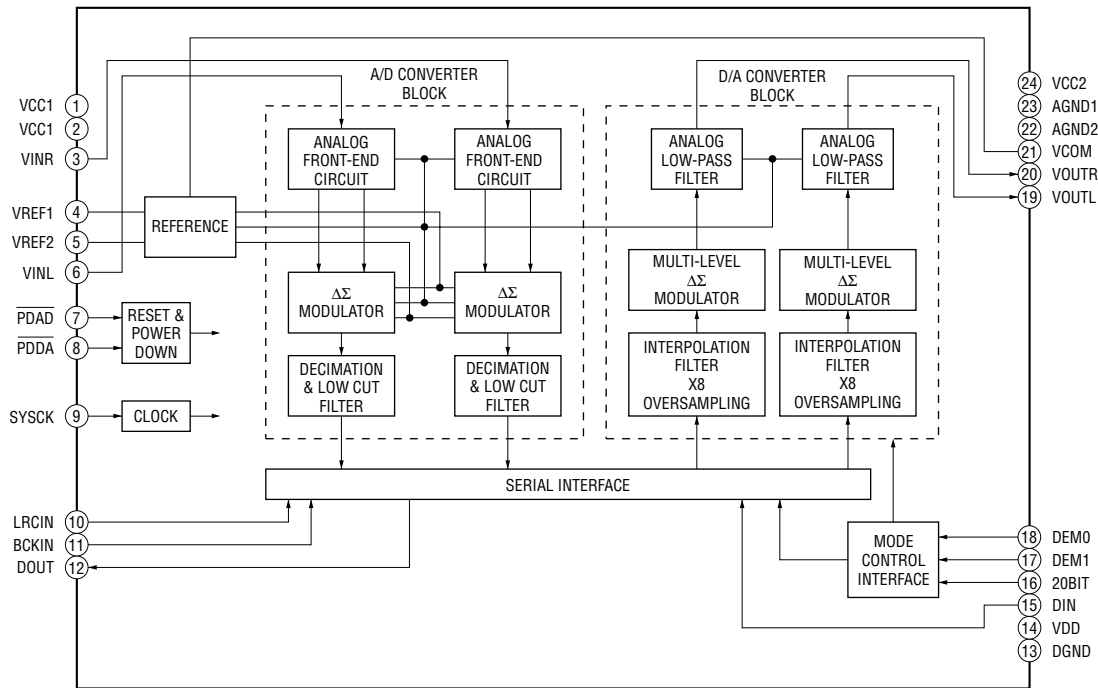
**IC152 BH6511FS-E2**



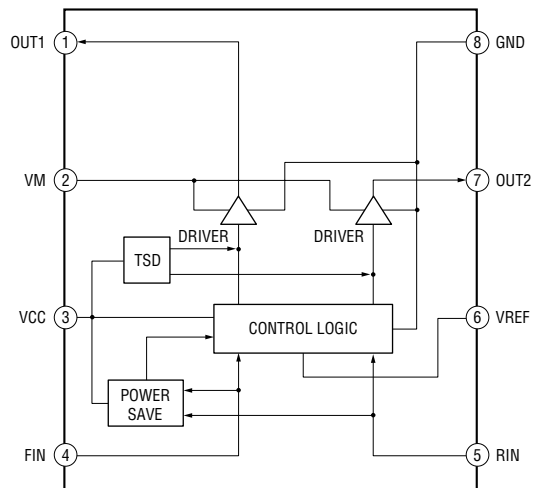


- DG Board -

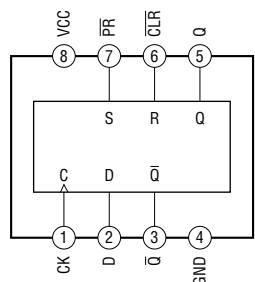
IC603 PCM3003E/T2



IC602 BA6287F

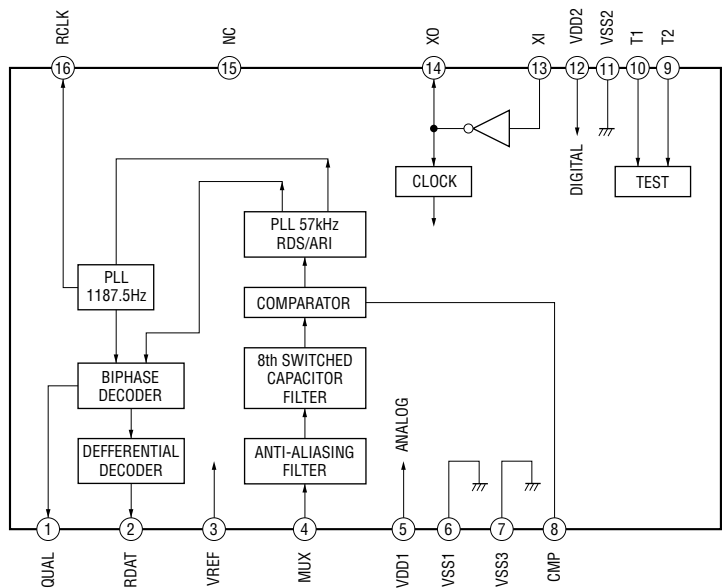


IC606 TC7WH74FU (TR12R)

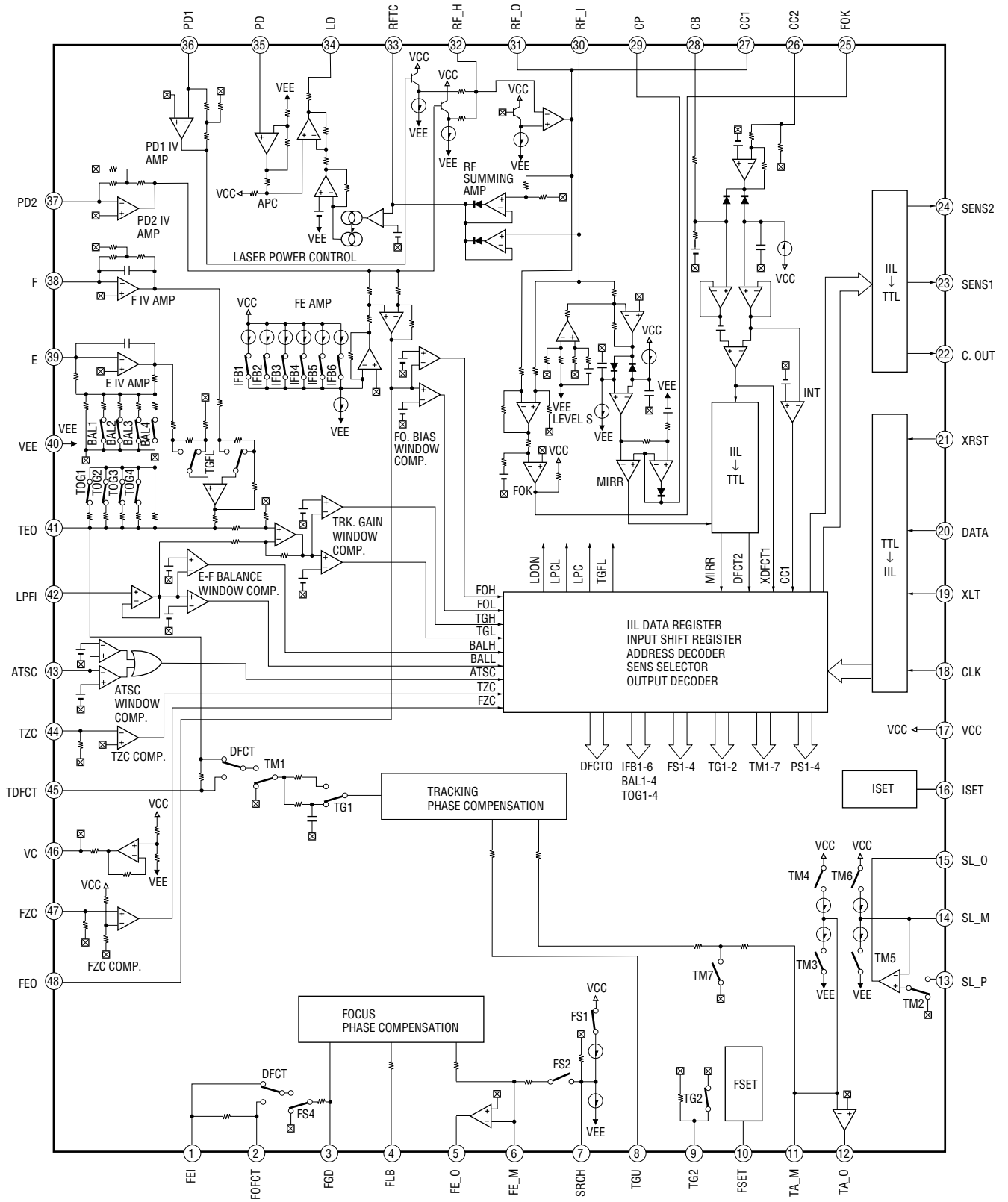


- MAIN Board -

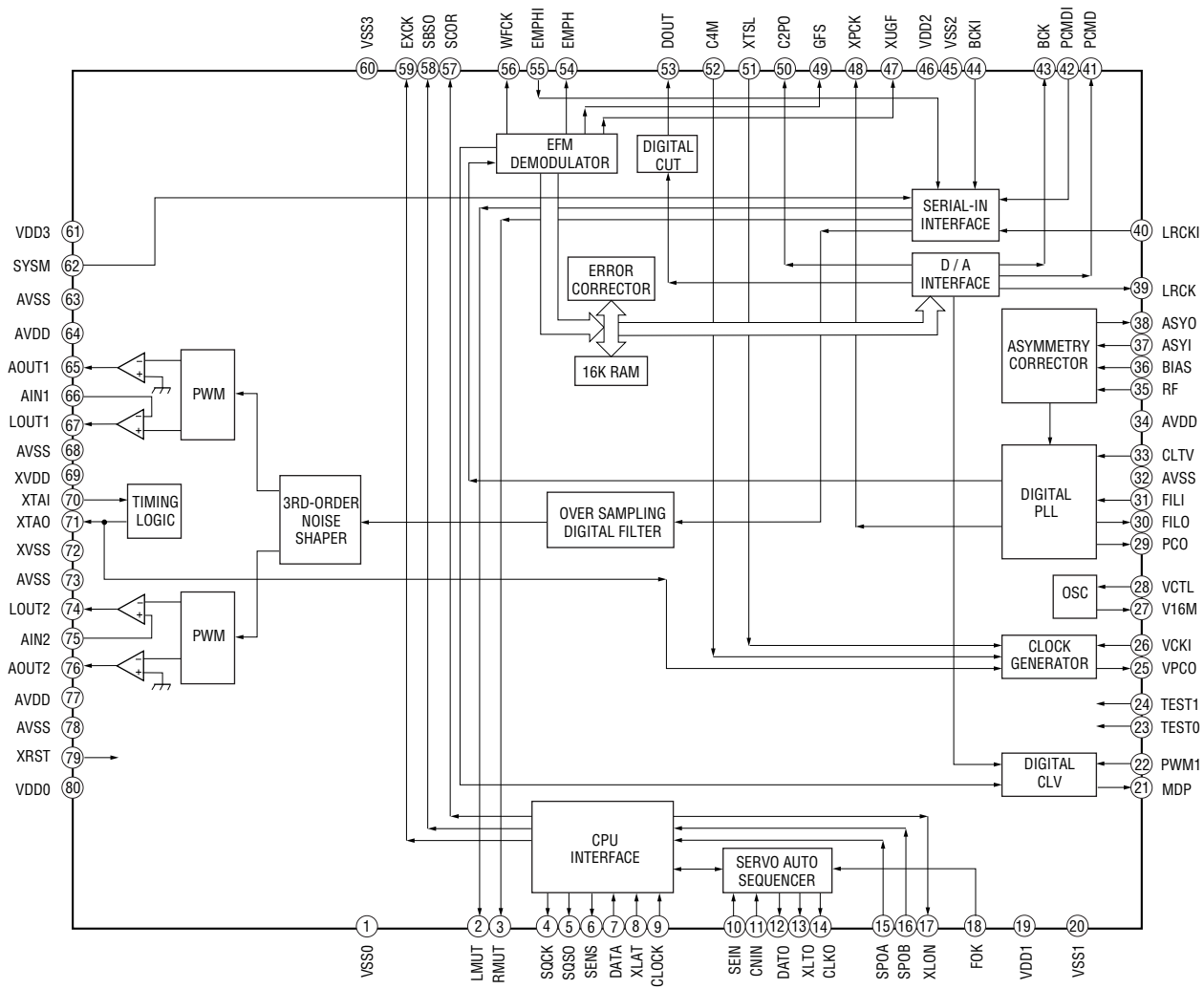
IC406 BU1924F-E2 (AEP, UK)



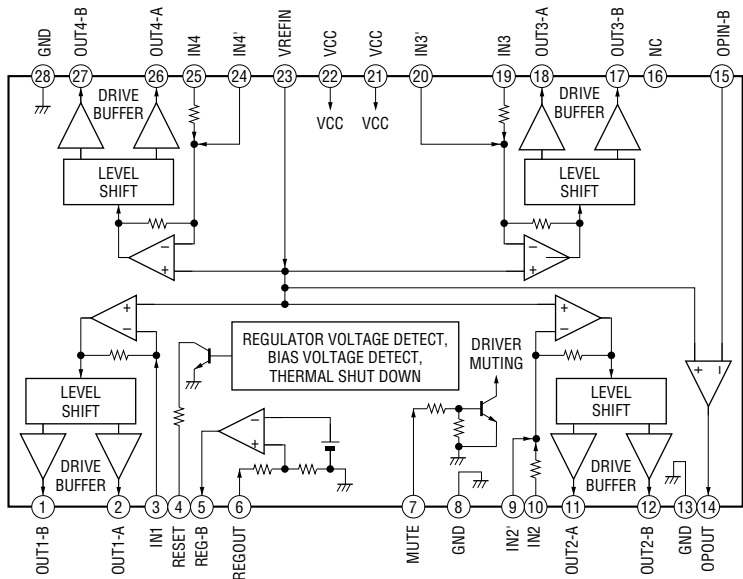
IC701 CXA2542AQ



IC702 CXD3009Q

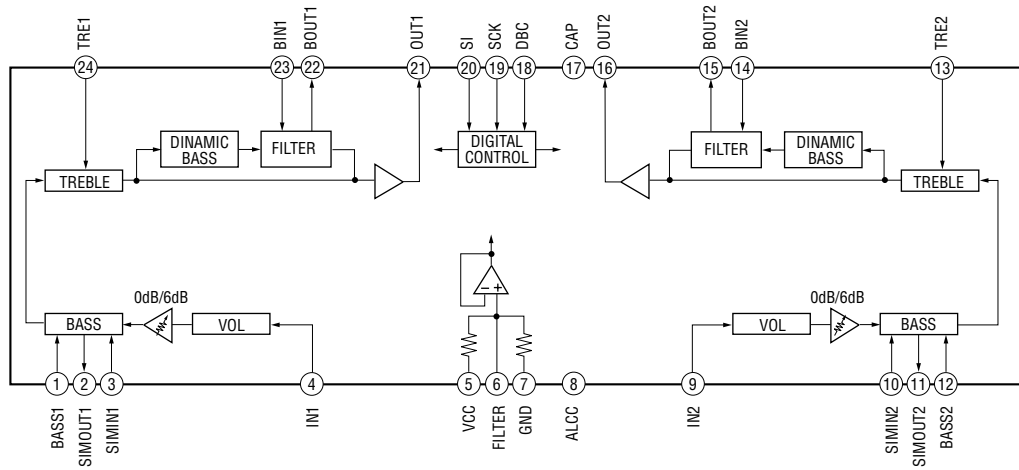


IC703 BA6998FP-E2



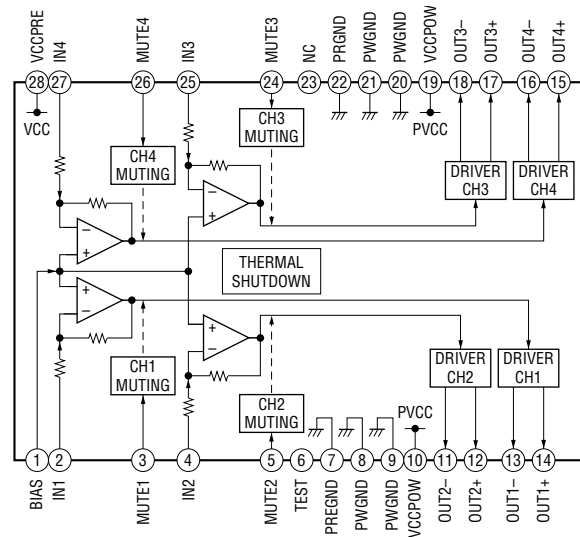
– AU/JACK Board –

IC351 BH3863F-E2



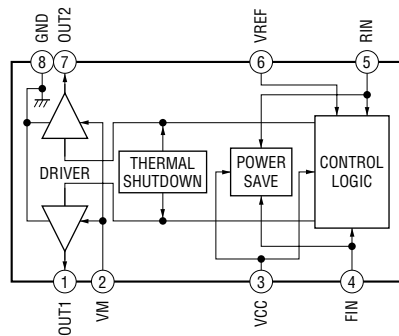
– CD MOTOR Board –

IC1001 BA6892FP-E2



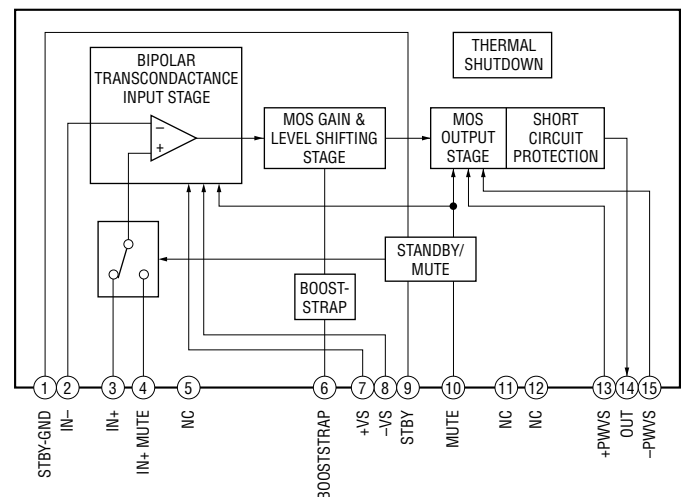
– CD O/C Board –

IC711 BA6289F-E2



– WOOFER AMP (A) Board –

IC812 TDA7296



## 6-29. IC PIN FUNCTION DESCRIPTION

### • BD BOARD IC101 CXA2523AR (RF AMP, FOCUS/TRACKING ERROR AMP)

| Pin No. | Pin Name     | I/O | Description                                                                                                            |
|---------|--------------|-----|------------------------------------------------------------------------------------------------------------------------|
| 1       | I            | I   | I-V converted RF signal I input from the optical pick-up block detector                                                |
| 2       | J            | I   | I-V converted RF signal J input from the optical pick-up block detector                                                |
| 3       | VC           | O   | Middle point voltage (+1.65V) generation output terminal                                                               |
| 4 to 9  | A to F       | I   | Signal input from the optical pick-up detector                                                                         |
| 10      | PD           | I   | Light amount monitor input from the optical pick-up block laser diode                                                  |
| 11      | APC          | O   | Laser amplifier output terminal to the automatic power control circuit                                                 |
| 12      | APCREF       | I   | Reference voltage input terminal for setting laser power                                                               |
| 13      | GND          | —   | Ground terminal                                                                                                        |
| 14      | TEMPI        | I   | Connected to the temperature sensor                                                                                    |
| 15      | TEMPR        | O   | Output terminal for a temperature sensor reference voltage                                                             |
| 16      | SWDT         | I   | Writing serial data input from the CXD2654R (IC121)                                                                    |
| 17      | SCLK         | I   | Serial data transfer clock signal input from the CXD2654R (IC121)                                                      |
| 18      | XLAT         | I   | Serial data latch pulse signal input from the CXD2654R (IC121)                                                         |
| 19      | <u>XSTBY</u> | I   | Standby signal input terminal “L”: standby (fixed at “H” in this set)                                                  |
| 20      | F0CNT        | I   | Center frequency control voltage input terminal of internal circuit (BPF22, BPF3T, EQ) input from the CXD2654R (IC121) |
| 21      | VREF         | O   | Reference voltage output terminal Not used (open)                                                                      |
| 22      | EQADJ        | I   | Center frequency setting terminal for the internal circuit (EQ)                                                        |
| 23      | 3TADJ        | I   | Center frequency setting terminal for the internal circuit (BPF3T)                                                     |
| 24      | VCC          | —   | Power supply terminal (+3.3V)                                                                                          |
| 25      | WBLADJ       | I   | Center frequency setting terminal for the internal circuit (BPF22)                                                     |
| 26      | TE           | O   | Tracking error signal output to the CXD2654R (IC121)                                                                   |
| 27      | CSLED        | I   | Connected to the external capacitor for low-pass filter of the sled error signal                                       |
| 28      | SE           | O   | Sled error signal output to the CXD2654R (IC121)                                                                       |
| 29      | ADFM         | O   | FM signal output of the ADIP                                                                                           |
| 30      | ADIN         | I   | Receives a ADIP FM signal in AC coupling                                                                               |
| 31      | ADAGC        | I   | Connected to the external capacitor for ADIP AGC                                                                       |
| 32      | ADFG         | O   | ADIP duplex signal (22.05 kHz $\pm$ 1 kHz) output to the CXD2654R (IC121)                                              |
| 33      | AUX          | O   | Auxiliary signal (I <sub>3</sub> signal/temperature signal) output to the CXD2654R (IC121)                             |
| 34      | FE           | O   | Focus error signal output to the CXD2654R (IC121)                                                                      |
| 35      | ABCD         | O   | Light amount signal (ABCD) output to the CXD2654R (IC121)                                                              |
| 36      | BOTM         | O   | Light amount signal (RF/ABCD) bottom hold output to the CXD2654R (IC121)                                               |
| 37      | PEAK         | O   | Light amount signal (RF/ABCD) peak hold output to the CXD2654R (IC121)                                                 |
| 38      | RF           | O   | Playback EFM RF signal output to the CXD2654R (IC121)                                                                  |
| 39      | RFAGC        | I   | Connected to the external capacitor for RF auto gain control circuit                                                   |
| 40      | AGCI         | I   | Receives a RF signal in AC coupling                                                                                    |
| 41      | COMPO        | O   | User comparator output terminal Not used (open)                                                                        |
| 42      | COMPP        | I   | User comparator input terminal Not used (fixed at “L”)                                                                 |
| 43      | ADDC         | I   | Connected to the external capacitor for cutting the low band of the ADIP amplifier                                     |
| 44      | OPO          | O   | User operational amplifier output terminal Not used (open)                                                             |
| 45      | OPN          | I   | User operational amplifier inversion input terminal Not used (fixed at “L”)                                            |
| 46      | RFO          | O   | RF signal output terminal                                                                                              |
| 47      | MORFI        | I   | Receives a MO RF signal in AC coupling                                                                                 |
| 48      | MORFO        | O   | MO RF signal output terminal                                                                                           |

• **BD BOARD IC121 CXD2654R**

**(DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO SIGNAL PROCESSOR, EFM/ACIRC ENCODER/DECODER, SHOCK PROOF MEMORY CONTROLLER, ATRAC ENCODER/DECODER)**

| Pin No.  | Pin Name     | I/O   | Description                                                                                                                                                                   |
|----------|--------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | MNT0 (FOK)   | O     | Focus OK signal output to the MD mechanism controller (IC601)<br>“H” is output when focus is on (“L”: NG)                                                                     |
| 2        | MNT1 (SHOCK) | O     | Track jump detection signal output to the MD mechanism controller (IC601)                                                                                                     |
| 3        | MNT2 (XBUSY) | O     | Busy monitor signal output to the MD mechanism controller (IC601)                                                                                                             |
| 4        | MNT3 (SLOCK) | O     | Spindle servo lock status monitor signal output to the MD mechanism controller (IC601)                                                                                        |
| 5        | SWDT         | I     | Writing serial data signal input from the MD mechanism controller (IC601)                                                                                                     |
| 6        | SCLK         | I (S) | Serial data transfer clock signal input from the MD mechanism controller (IC601)                                                                                              |
| 7        | XLAT         | I (S) | Serial data latch pulse signal input from the MD mechanism controller (IC601)                                                                                                 |
| 8        | SRDT         | O (3) | Reading serial data signal output to the MD mechanism controller (IC601)                                                                                                      |
| 9        | SENS         | O (3) | Internal status (SENSE) output to the MD mechanism controller (IC601)                                                                                                         |
| 10       | <u>XRST</u>  | I (S) | Reset signal input from the MD mechanism controller (IC601) “L”: reset                                                                                                        |
| 11       | SQSY         | O     | Subcode Q sync (SCOR) output to the MD mechanism controller (IC601)<br>“L” is output every 13.3 msec Almost all, “H” is output                                                |
| 12       | DQSY         | O     | Digital In U-bit CD format subcode Q sync (SCOR) output to the MD mechanism controller (IC601)<br>“L” is output every 13.3 msec Almost all, “H” is output                     |
| 13       | RECP         | I     | Laser power selection signal input from the MD mechanism controller (IC601)<br>“L”: playback mode, “H”: recording mode                                                        |
| 14       | XINT         | O     | Interrupt status output to the MD mechanism controller (IC601)                                                                                                                |
| 15       | TX           | I     | Recording data output enable signal input from the MD mechanism controller (IC601)<br>Writing data transmission timing input (Also serves as the magnetic head on/off output) |
| 16       | OSCI         | I     | System clock signal (512Fs=22.5792 MHz) input terminal                                                                                                                        |
| 17       | OSCO         | O     | System clock signal (512Fs=22.5792 MHz) output terminal Not used (open)                                                                                                       |
| 18       | XTSL         | I     | Input terminal for the system clock frequency setting<br>“L”: 45.1584 MHz, “H”: 22.5792 MHz (fixed at “H” in this set)                                                        |
| 19       | DIN0         | I     | Digital audio signal input terminal when recording mode (for digital optical input) Not used                                                                                  |
| 20       | DIN1         | I     | Digital audio signal input terminal when recording mode (for digital optical input)                                                                                           |
| 21       | DOUT         | O     | Digital audio signal output terminal when playback mode (for digital optical output)<br>Not used                                                                              |
| 22       | DATAI        | I     | Serial data input terminal Not used (fixed at “L”)                                                                                                                            |
| 23       | LRCKI        | I     | L/R sampling clock signal (44.1 kHz) input terminal Not used (fixed at “L”)                                                                                                   |
| 24       | XBCKI        | I     | Bit clock signal (2.8224 MHz) input terminal Not used (fixed at “L”)                                                                                                          |
| 25       | ADDT         | I     | Recording data input from the A/D, D/A converter (IC603)                                                                                                                      |
| 26       | DADT         | O     | Playback data output to the A/D, D/A converter (IC603)                                                                                                                        |
| 27       | LRCK         | O     | L/R sampling clock signal (44.1 kHz) output to the A/D, D/A converter (IC603)                                                                                                 |
| 28       | XBCK         | O     | Bit clock signal (2.8224 MHz) output to the A/D, D/A converter (IC603)                                                                                                        |
| 29       | FS256        | O     | Clock signal (11.2896 MHz) output terminal Not used (open)                                                                                                                    |
| 30       | DVDD         | —     | Power supply terminal (+3.3V) (digital system)                                                                                                                                |
| 31 to 34 | A03 to A00   | O     | Address signal output to the D-RAM (IC124)                                                                                                                                    |
| 35       | A10          | O     | Address signal output to the external D-RAM Not used (open)                                                                                                                   |
| 36 to 40 | A04 to A08   | O     | Address signal output to the D-RAM (IC124)                                                                                                                                    |
| 41       | A11          | O     | Address signal output to the external D-RAM Not used (open)                                                                                                                   |
| 42       | <u>DVSS</u>  | —     | Ground terminal (digital system)                                                                                                                                              |
| 43       | <u>XOE</u>   | O     | Output enable signal output to the D-RAM (IC124) “L” active                                                                                                                   |
| 44       | <u>XCAS</u>  | O     | Column address strobe signal output to the D-RAM (IC124) “L” active                                                                                                           |
| 45       | A09          | O     | Address signal output to the D-RAM (IC124)                                                                                                                                    |

| Pin No. | Pin Name                 | I/O   | Description                                                                                            |
|---------|--------------------------|-------|--------------------------------------------------------------------------------------------------------|
| 46      | $\overline{\text{XRAS}}$ | O     | Row address strobe signal output to the D-RAM (IC124) "L" active                                       |
| 47      | $\overline{\text{XWE}}$  | O     | Write enable signal output to the D-RAM (IC124) "L" active                                             |
| 48      | D1                       | I/O   | Two-way data bus with the D-RAM (IC124)                                                                |
| 49      | D0                       | I/O   |                                                                                                        |
| 50      | D2                       | I/O   |                                                                                                        |
| 51      | D3                       | I/O   |                                                                                                        |
| 52      | MVCI                     | I (S) | Digital in PLL oscillation input from the external VCO Not used (fixed at "L")                         |
| 53      | ASYO                     | O     | Playback EFM full-swing output terminal                                                                |
| 54      | ASYI                     | I (A) | Playback EFM asymmetry comparator voltage input terminal                                               |
| 55      | AVDD                     | —     | Power supply terminal (+3.3V) (analog system)                                                          |
| 56      | BIAS                     | I (A) | Playback EFM asymmetry circuit constant current input terminal                                         |
| 57      | RFI                      | I (A) | Playback EFM RF signal input from the CXA2523AR (IC101)                                                |
| 58      | AVSS                     | —     | Ground terminal (analog system)                                                                        |
| 59      | PCO                      | O (3) | Phase comparison output for master clock of the recording/playback EFM master PLL                      |
| 60      | FILI                     | I (A) | Filter input for master clock of the recording/playback master PLL                                     |
| 61      | FILO                     | O (A) | Filter output for master clock of the recording/playback master PLL                                    |
| 62      | CLTV                     | I (A) | Internal VCO control voltage input of the recording/playback master PLL                                |
| 63      | PEAK                     | I (A) | Light amount signal (RF/ABCD) peak hold input from the CXA2523AR (IC101)                               |
| 64      | BOTM                     | I (A) | Light amount signal (RF/ABCD) bottom hold input from the CXA2523AR (IC101)                             |
| 65      | ABCD                     | I (A) | Light amount signal (ABCD) input from the CXA2523AR (IC101)                                            |
| 66      | FE                       | I (A) | Focus error signal input from the CXA2523AR (IC101)                                                    |
| 67      | AUX1                     | I (A) | Auxiliary signal (I <sub>3</sub> signal/temperature signal) input from the CXA2523AR (IC101)           |
| 68      | VC                       | I (A) | Middle point voltage (+1.65V) input from the CXA2523AR (IC101)                                         |
| 69      | ADIO                     | O (A) | Monitor output of the A/D converter input signal Not used (open)                                       |
| 70      | AVDD                     | —     | Power supply terminal (+3.3V) (analog system)                                                          |
| 71      | ADRT                     | I (A) | A/D converter operational range upper limit voltage input terminal (fixed at "H" in this set)          |
| 72      | ADRB                     | I (A) | A/D converter operational range lower limit voltage input terminal (fixed at "L" in this set)          |
| 73      | AVSS                     | —     | Ground terminal (analog system)                                                                        |
| 74      | SE                       | I (A) | Sled error signal input from the CXA2523AR (IC101)                                                     |
| 75      | TE                       | I (A) | Tracking error signal input from the CXA2523AR (IC101)                                                 |
| 76      | DCHG                     | I (A) | Connected to the +3.3V power supply                                                                    |
| 77      | APC                      | I (A) | Error signal input for the laser automatic power control Not used (fixed at "H")                       |
| 78      | ADFG                     | I (S) | ADIP duplex FM signal (22.05 kHz $\pm$ 1 kHz) input from the CXA2523AR (IC101)                         |
| 79      | F0CNT                    | O     | Filter f <sub>0</sub> control signal output to the CXA2523AR (IC101)                                   |
| 80      | XLRF                     | O     | Serial data latch pulse signal output to the CXA2523AR (IC101)                                         |
| 81      | CKRF                     | O     | Serial data transfer clock signal output to the CXA2523AR (IC101)                                      |
| 82      | DTRF                     | O     | Writing serial data output to the CXA2523AR (IC101)                                                    |
| 83      | APCREF                   | O     | Control signal output to the reference voltage generator circuit for the laser automatic power control |
| 84      | LDDR                     | O     | PWM signal output for the laser automatic power control Not used (open)                                |
| 85      | TRDR                     | O     | Tracking servo drive PWM signal (–) output to the BH6511FS (IC152)                                     |
| 86      | TFDR                     | O     | Tracking servo drive PWM signal (+) output to the BH6511FS (IC152)                                     |
| 87      | DVDD                     | —     | Power supply terminal (+3.3V) (digital system)                                                         |
| 88      | FFDR                     | O     | Focus servo drive PWM signal (+) output to the BH6511FS (IC152)                                        |
| 89      | FRDR                     | O     | Focus servo drive PWM signal (–) output to the BH6511FS (IC152)                                        |
| 90      | FS4                      | O     | Clock signal (176.4 kHz) output terminal (X'tal system) Not used (open)                                |

| Pin No. | Pin Name | I/O   | Description                                                       |
|---------|----------|-------|-------------------------------------------------------------------|
| 91      | SRDR     | O     | Sled servo drive PWM signal (–) output to the BH6511FS (IC152)    |
| 92      | SFDR     | O     | Sled servo drive PWM signal (+) output to the BH6511FS (IC152)    |
| 93      | SPRD     | O     | Spindle servo drive PWM signal (–) output to the BH6511FS (IC152) |
| 94      | SPFD     | O     | Spindle servo drive PWM signal (+) output to the BH6511FS (IC152) |
| 95      | FGIN     | I (S) | Input terminal for the test (fixed at “L”)                        |
| 96      | TEST1    | I     |                                                                   |
| 97      | TEST2    | I     |                                                                   |
| 98      | TEST3    | I     |                                                                   |
| 99      | DVSS     | —     | Ground terminal (digital system)                                  |
| 100     | EFMO     | O     | EFM signal output terminal when recording mode                    |

\* I (S) stands for schmitt input, I (A) for analog input, O (3) for 3-state output, and O (A) for analog output in the column I/O.



• MAIN BOARD IC405 CXP740096-032Q (SYSTEM CONTROLLER)

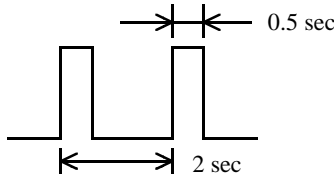
| Pin No.  | Pin Name                | I/O | Description                                                                                                                                                                   |
|----------|-------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | MD                      | O   | Function select signal output for the MD playback signal “L”: MD, “H”: other function                                                                                         |
| 2        | RADIO/LINE              | O   | Function select signal output for the tuner/line input signal<br>“L”: tuner/line in, “H”: other function                                                                      |
| 3        | AC-CHK                  | I   | AC power supply detection signal input “L”: AC in                                                                                                                             |
| 4 to 6   | NC                      | —   | Not used (open)                                                                                                                                                               |
| 7        | RDS-DATA                | I   | RDS serial data input from the RDS decoder Used for the AEP, UK models<br>(US, Canadian models: not used (fixed at “L”))                                                      |
| 8        | NC                      | —   | Not used (open)                                                                                                                                                               |
| 9        | RDS-CLK                 | I   | RDS serial data transfer clock signal input from the RDS decoder Used for the AEP, UK models<br>(US, Canadian models: not used (fixed at “L”))                                |
| 10       | CD-TURN                 | I   | CD lid start closing detection signal input “H”: start closing                                                                                                                |
| 11       | M/B                     | O   | MEGA BASS on/off control signal output “L”: MEGA BASS on                                                                                                                      |
| 12       | CD-OPEN                 | O   | CD lid open/close motor (M703) drive signal output “H”: during CD lid open                                                                                                    |
| 13       | CD-CLOSE                | O   | CD lid open/close motor (M703) drive signal output “H”: during CD lid close                                                                                                   |
| 14 to 16 | NC                      | —   | Not used (open)                                                                                                                                                               |
| 17       | MD-H                    | O   | MD play control signal output to the A/D, D/A converter (IC603) “L”: MD playback mode                                                                                         |
| 18       | REC-H                   | O   | MD rec control signal output to the A/D, D/A converter (IC603) “L”: MD recording mode                                                                                         |
| 19       | MD-RST                  | O   | Power supply on/off control signal output for the MD mechanism controller (IC601)<br>“H”: power on                                                                            |
| 20       | MD-SCTS                 | O   | System controller busy status monitor output to the MD mechanism controller (IC601)                                                                                           |
| 21       | MD-SRTS                 | I   | MD mechanism controller busy status monitor input from the MD mechanism controller (IC601)                                                                                    |
| 22       | MD-PDOWN                | O   | Power down signal output to the MD mechanism controller (IC601) “L”: power down                                                                                               |
| 23       | D/L CON                 | O   | CD disc illumination lamp (PL550) drive signal output “H”: lights up                                                                                                          |
| 24       | LCD-RST                 | O   | Reset signal output to the liquid crystal display (LCD500)                                                                                                                    |
| 25       | LCD-CE                  | O   | Chip enable signal output to the liquid crystal display (LCD500)                                                                                                              |
| 26       | LCD-AO                  | O   | Address signal output to the liquid crystal display (LCD500)                                                                                                                  |
| 27       | LED-MD                  | O   | LED drive signal output of the $\triangleright\parallel$ MD indicator (D550) “H”: LED on                                                                                      |
| 28       | LED-RADIO               | O   | LED drive signal output of the BAND TUNER indicator (D552) “H”: LED on                                                                                                        |
| 29       | LED-CD                  | O   | LED drive signal output of the $\triangleright\parallel$ CD indicator (D551) “H”: LED on                                                                                      |
| 30       | NC                      | —   | Not used (open)                                                                                                                                                               |
| 31       | RADIO-POWER             | O   | Tuner system power supply on/off control signal output “L”: power on                                                                                                          |
| 32       | CD-POWER                | O   | CD servo system power supply on/off control signal output “L”: power on                                                                                                       |
| 33       | HI-LED                  | O   | LED drive signal output of the HIGH SPEED indicator (D555) “H”: LED on                                                                                                        |
| 34       | CD-12HISP               | O   | CD spindle motor control signal output                                                                                                                                        |
| 35 to 38 | NC                      | —   | Not used (open)                                                                                                                                                               |
| 39       | TU-SFT                  | O   | Level shift of the main system clock control terminal                                                                                                                         |
| 40       | $\overline{\text{RST}}$ | I   | System reset signal input from the reset signal generator (IC404) “L”: reset<br>For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H” |
| 41       | VSS                     | —   | Ground terminal                                                                                                                                                               |
| 42       | XTAL                    | I   | Main system clock input terminal (8 MHz)                                                                                                                                      |
| 43       | EXTAL                   | O   | Main system clock output terminal (8 MHz)                                                                                                                                     |
| 44       | SELECT-GND              | I   | Destination setting terminal Fixed at “H” in this set                                                                                                                         |
| 45       | HP-SW                   | I   | Headphone plug in/out detection input “L”: plug in                                                                                                                            |
| 46       | LCD-DATA                | O   | Serial data output to the liquid crystal display (LCD500)                                                                                                                     |
| 47       | LCD-CLK                 | O   | Serial data transfer clock signal output to the liquid crystal display (LCD500)                                                                                               |
| 48       | CD-DOOR                 | I   | Detection signal input from the CD lid open/close detect switch (S761/762)                                                                                                    |
| 49       | JOG-A                   | I   | Jog dial pulse input from the rotary encoder (S556) (A phase input)                                                                                                           |
| 50       | JOG-B                   | I   | Jog dial pulse input from the rotary encoder (S556) (B phase input)                                                                                                           |

| Pin No.  | Pin Name       | I/O | Description                                                                                                                                 |
|----------|----------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------|
| 51       | SELECT         | I   | Destination setting terminal                                                                                                                |
| 52       | AVSS           | —   | Ground terminal (for A/D converter)                                                                                                         |
| 53       | AVREF          | I   | Reference voltage (+3.3V) input terminal (for A/D converter)                                                                                |
| 54       | AVDD           | —   | Power supply terminal (+3.3V) (for A/D converter)                                                                                           |
| 55       | LED-PRESET/AMS | O   | LED drive signal output of the PRESET/AMS indicator (D553) “H”: LED on                                                                      |
| 56       | LED-SELECT     | O   | LED drive signal output of the SELECT indicator (D554) “H”: LED on                                                                          |
| 57       | LINE           | O   | Function select signal output for the line input signal “L”: line in, “H”: other function                                                   |
| 58       | LINE-LEVEL     | O   | Line in level control signal output “L”: normal, “H”: high                                                                                  |
| 59       | KEY4           | I   | Key input terminal (A/D input) □ (MD), ▷ (MD), BAND RADIO, ▷ (CD), □ (CD), CD OPEN/CLOSE ▲, LINE/LINE IN keys input (S550 to S555 and S579) |
| 60       | KEY3           | I   | Key input terminal (A/D input) DELETE, TUNE ← – ◀◀, NO CANCEL, EDIT, YES ENTER, DISPLAY, TUNE + ⇒ ▶▶, INSERT keys input (S557 to S564)      |
| 61       | KEY2           | I   | Key input terminal (A/D input) VOL +/-, BASS/TREBLE, MEGA BASS, MD EJECT ▲, MONO/ST REPEAT, AUTO PRESET SHUF/PGM keys input (S565 to S571)  |
| 62       | KEY1           | I   | Key input terminal (A/D input) POWER, SLEEP, STANDBY, SYNCHRO REC CD ▶ MD, REC IT TO TOP/END, REC, HIGH SPEED keys input (S572 to S580)     |
| 63       | R-MUTE         | O   | Muting on/off control signal output for the tuner signal “L”: muting on                                                                     |
| 64       | R-COUNT        | I   | PLL serial data input from the LC72137M (IC2)                                                                                               |
| 65       | R-CLK          | O   | PLL serial data transfer clock signal output to the LC72137M (IC2)                                                                          |
| 66       | R-DATA         | O   | PLL serial data output to the LC72137M (IC2)                                                                                                |
| 67       | R-CE           | O   | PLL serial chip enable signal output to the LC72137M (IC2)                                                                                  |
| 68       | HI-SPEED       | O   | High speed recording on/off control signal output “L”: high speed recording                                                                 |
| 69       | MD-SRXD        | I   | UART communication data input from the MD mechanism controller (IC601)                                                                      |
| 70       | MD-STXD        | O   | UART communication data output to the MD mechanism controller (IC601)                                                                       |
| 71 to 73 | NC             | —   | Not used (open)                                                                                                                             |
| 74       | CD-CLK         | O   | Serial data transfer clock signal output to the CXD3009Q (IC702)                                                                            |
| 75       | CD-XLAT        | O   | Serial data latch pulse signal output to the CXD3009Q (IC702)                                                                               |
| 76       | CD-DATA        | O   | Serial data output to the CXD3009Q (IC702)                                                                                                  |
| 77       | CD-SENSE1      | I   | Internal status (SENSE) input from the CXD3009Q (IC702)                                                                                     |
| 78       | CD-SCOR        | I   | Subcode sync (S0+S1) detection signal input from the CXD3009Q (IC702)                                                                       |
| 79       | CD-SQSO        | I   | Subcode Q data input from the CXD3009Q (IC702)                                                                                              |
| 80       | CD-SHORT       | I   | Detection signal input of supplied the power to CD block                                                                                    |
| 81       | CD-SQCK        | O   | Subcode Q data reading clock signal output to the CXD3009Q (IC702)                                                                          |
| 82       | CD-MUTE        | O   | Muting on/off control signal output for the CD playback signal “L”: muting on                                                               |
| 83       | CD-FOK         | I   | Focus OK signal input terminal Not used (open)                                                                                              |
| 84       | CD-SENSE2      | I   | Internal status (SENSE) input from the CXA2542AQ (IC701)                                                                                    |
| 85       | RMC            | I   | Sircs remote control signal input from the remote control receiver (IC550)                                                                  |
| 86       | TEX            | O   | Sub system clock output terminal (32.768 kHz)                                                                                               |
| 87       | TX             | I   | Sub system clock input terminal (32.768 kHz)                                                                                                |
| 88       | VSS            | —   | Ground terminal                                                                                                                             |
| 89       | VDD            | —   | Power supply terminal (+3.3V)                                                                                                               |
| 90       | NC             | —   | Not used (open)                                                                                                                             |
| 91       | CD-XRST        | O   | Reset signal output to the CXA2542AQ (IC701) and CXD3009Q (IC702) “L”: reset                                                                |
| 92       | NC             | —   | Not used (open)                                                                                                                             |
| 93       | SPEED-L        | O   | CD lid open/close motor (M703) drive signal output “L”: open                                                                                |
| 94       | AU-DATA        | O   | Serial data output to the electrical volume (IC351)                                                                                         |

| Pin No. | Pin Name   | I/O | Description                                                                                                                                           |
|---------|------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 95      | AU-CLK     | O   | Serial data transfer clock signal output to the electrical volume (IC351)                                                                             |
| 96      | B/L CONT   | O   | Back light lamp (PL553 to PL555) drive signal output for the liquid crystal display (LCD500)<br>“L”: lights down (standby), “H”: lights up (power on) |
| 97      | PA-STANDBY | O   | Power amp on/off control signal output “L”: standby, “H”: power on                                                                                    |
| 98      | AMUTE      | O   | Audio muting on/off control signal output “H”: muting on                                                                                              |
| 99      | CD         | O   | Function select signal output for the CD playback signal “L”: CD, “H”: other function                                                                 |
| 100     | P-CON      | O   | Power on/off control signal output “L”: standby mode, “H”: power on                                                                                   |

• DG BOARD IC601 RU8X12MF-0031 (MD MECHANISM CONTROLLER)

| Pin No.  | Pin Name       | I/O | Description                                                                                                                                                        |
|----------|----------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1, 2     | DAOUT0, DAOUT1 | O   | Not used (open)                                                                                                                                                    |
| 3 to 5   | KEY0 to KEY2   | I   | Key input terminal (A/D input) Not used (fixed at "H")                                                                                                             |
| 6        | CHACK-IN       | I   | Detection input from the disc chucking-in detect switch "L": chucking<br>Not used (fixed at "H")                                                                   |
| 7        | PACK-IN        | I   | Detection input from the loading-in detect switch<br>"L" at a load-out position, others: "H" Not used (fixed at "H")                                               |
| 8        | PACK-OUT       | I   | Detection input from the loading-out detect switch (S602)<br>"L" at a load-out position, others: "H"                                                               |
| 9, 10    | NC             | —   | Not used (fixed at "L")                                                                                                                                            |
| 11       | AVSS           | —   | Ground terminal                                                                                                                                                    |
| 12       | XINT           | I   | Interrupt status input from the CXD2654R (IC121)                                                                                                                   |
| 13       | PDOWN          | I   | Power down detection signal input terminal "L": power down, normally: "H"                                                                                          |
| 14       | NC             | —   | Not used (fixed at "L")                                                                                                                                            |
| 15       | SQSY           | I   | Subcode Q sync (SCOR) input from the CXD2654R (IC121)<br>"L" is input every 13.3 msec Almost all, "H" is input                                                     |
| 16       | DQSY           | I   | Digital In U-bit CD format subcode Q sync (SCOR) input from the CXD2654R (IC121)<br>"L" is input every 13.3 msec Almost all, "H" is input                          |
| 17 to 19 | NC             | —   | Not used (fixed at "L")                                                                                                                                            |
| 20       | <u>SYS-RST</u> | I   | System reset signal input from the reset switch (Q604) "L": reset<br>For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H" |
| 21       | TEST           | I   | Setting terminal for the test mode Not used (fixed at "L")                                                                                                         |
| 22       | +3.3V          | —   | Power supply terminal (+3.3V)                                                                                                                                      |
| 23       | VBAT           | I   | Power supply for the internal real time clock and RAM                                                                                                              |
| 24       | XOUT-T         | O   | Sub system clock output terminal (32.768 kHz)                                                                                                                      |
| 25       | XIN-T          | I   | Sub system clock input terminal (32.768 kHz)                                                                                                                       |
| 26       | GND            | —   | Ground terminal                                                                                                                                                    |
| 27       | XOUT           | O   | Main system clock output terminal (12 MHz)                                                                                                                         |
| 28       | XIN            | I   | Main system clock input terminal (12 MHz)                                                                                                                          |
| 29       | EXMEM          | I   | Setting terminal external ROM mode or internal ROM mode "L": internal ROM mode<br>(fixed at "L")                                                                   |
| 30       | S1             | —   | Not used (open)                                                                                                                                                    |
| 31       | NC             | —   | Not used (fixed at "L")                                                                                                                                            |
| 32       | SENS           | I   | Internal status (SENSE) input from the CXD2654R (IC121)                                                                                                            |
| 33       | SHOCK          | I   | Track jump detection signal input from the CXD2654R (IC121)                                                                                                        |
| 34 to 35 | NC             | —   | Not used (fixed at "L")                                                                                                                                            |
| 36       | STB            | O   | Relay drive signal output for the power on/off "L": standby mode, "H": relay on                                                                                    |
| 37       | REC P          | I   | Detection input from the recording position detect switch (S601) "L" active                                                                                        |
| 38       | PB P           | I   | Detection input from the playback position detect switch (S604) "L" active                                                                                         |
| 39       | LD-LOW         | O   | Loading motor drive voltage control signal output for the loading motor driver (IC602)<br>"H" active                                                               |
| 40       | NC             | —   | Not used (open)                                                                                                                                                    |
| 41       | MNT2 (XBUSY)   | I   | Busy status signal input from the CXD2654R (IC121)                                                                                                                 |
| 42       | MNT3 (SLOCK)   | I   | Spindle servo lock status monitor signal input from the CXD2654R (IC121)                                                                                           |
| 43       | LED0           | O   | LED drive signal output terminal "L": LED on Not used (open)                                                                                                       |
| 44 to 45 | NC             | —   | Not used (fixed at "L")                                                                                                                                            |
| 46       | RST-LOW        | —   | Not used (open)                                                                                                                                                    |
| 47       | GND            | —   | Ground terminal                                                                                                                                                    |

| Pin No. | Pin Name                    | I/O | Description                                                                                                                                                                                                         |
|---------|-----------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 48      | +3.3V                       | —   | Power supply terminal (+3.3V)                                                                                                                                                                                       |
| 49      | SNG/CHG                     | —   | Not used (fixed at “L”)                                                                                                                                                                                             |
| 50, 51  | JOG1, JOG0                  | I   | JOG dial pulse input Not used (fixed at “L”)                                                                                                                                                                        |
| 52      | SDA                         | I/O | Two-way data bus with the EEPROM (IC171)                                                                                                                                                                            |
| 53      | SCL                         | O   | Clock signal output to the EEPROM (IC171)                                                                                                                                                                           |
| 54      | 2M/4M                       | I   | Select whether D-RAM capacitance 2M bit or 4M bit “L”: 4M bit (external D-RAM), “H”: 2M bit (internal D-RAM of IC121 CXD2654R) (fixed at “H” in this set)                                                           |
| 55, 56  | NC                          | —   | Not used (fixed at “L”)                                                                                                                                                                                             |
| 57      | RXD (UART)                  | I   | UART communication data input from the system controller (IC405)                                                                                                                                                    |
| 58      | TXD (UART)                  | O   | UART communication data output to the system controller (IC405)                                                                                                                                                     |
| 59      | RTS                         | I   | RTS (Request To Send) input from the system controller (IC405)                                                                                                                                                      |
| 60      | CTS                         | O   | CTS (Clear To Send) output to the system controller (IC405)                                                                                                                                                         |
| 61, 62  | AUBIT0, AUBIT1              | —   | Not used (fixed at “L”)                                                                                                                                                                                             |
| 63, 64  | CLKSET0, CLKSET1            | I   | Clock destination setting terminal (fixed at “L”)                                                                                                                                                                   |
| 65      | GND                         | —   | Ground terminal                                                                                                                                                                                                     |
| 66      | +3.3V                       | —   | Power supply terminal (+3.3V)                                                                                                                                                                                       |
| 67      | SCLK                        | O   | Serial clock signal output to the CXD2654R (IC121)                                                                                                                                                                  |
| 68      | SWDT                        | O   | Writing data output to the CXD2654R (IC121)                                                                                                                                                                         |
| 69      | SRDT                        | I   | Reading data input from the CXD2654R (IC121)                                                                                                                                                                        |
| 70      | EMP                         | O   | Emphasis control signal output to the A/D, D/A converter (IC603) when recording mode                                                                                                                                |
| 71      | SCK1                        | O   | Display serial clock signal output terminal Not used (open)                                                                                                                                                         |
| 72      | SOUT1                       | O   | Display serial data output terminal Not used (open)                                                                                                                                                                 |
| 73      | SIN1                        | O   | Chip select signal output for the display Not used (open)                                                                                                                                                           |
| 74      | CSB                         | I   | Not used (fixed at “H”)                                                                                                                                                                                             |
| 75      | LDON                        | O   | Laser diode on/off control signal output to the automatic power control circuit “H”: laser on                                                                                                                       |
| 76      | PIT/GRV                     | O   | Pit/groove detection signal output terminal<br>“H”: is output for the playback only disc or TOC area Not used (open)                                                                                                |
| 77      | FOK                         | I   | Focus OK signal input from the CXD2654R (IC121)<br>“H” is input when focus is on (“L”: NG)                                                                                                                          |
| 78      | NC                          | —   | Not used (open)                                                                                                                                                                                                     |
| 79      | LOCK                        | O   | Lock signal output terminal Not used (open)                                                                                                                                                                         |
| 80      | WRPWR                       | O   | Laser power select signal output to the CXD2654R (IC121) and HF module switch circuit<br>“L”: playback mode, “H”: recording mode                                                                                    |
| 81      | $\overline{\text{DIG-RST}}$ | O   | Reset signal output to the CXD2654R (IC121) and BH6511FS (IC152) “L”: reset                                                                                                                                         |
| 82      | NC                          | —   | Not used (open)                                                                                                                                                                                                     |
| 83      | $\overline{\text{DA-RST}}$  | O   | Reset signal output to the A/D, D/A converter (IC603) “L”: reset                                                                                                                                                    |
| 84      | DSEL-A                      | —   | Not used (open)                                                                                                                                                                                                     |
| 85      | DSEL-B                      | —   | Not used (open)                                                                                                                                                                                                     |
| 86      | MOD                         | O   | Laser modulation select signal output to the HF module switch circuit<br>Stop: “L”, Playback power: “H”,<br>Recording power:<br> |

| Pin No. | Pin Name | I/O | Description                                                                                                                                                                                   |
|---------|----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 87      | REC/PB   | O   | Not used (open)                                                                                                                                                                               |
| 88      | NC       | —   | Not used (open)                                                                                                                                                                               |
| 89      | SCTX     | O   | Recording data output enable signal output to the CXD2654R (IC121) and overwrite head driver (IC181) Writing data transmission timing output (Also serves as the magnetic head on/off output) |
| 90      | XLATCH   | O   | Serial data latch pulse signal output to the CXD2654R (IC121)                                                                                                                                 |
| 91, 92  | NC       | —   | Not used (open)                                                                                                                                                                               |
| 93      | AMUTE    | O   | Muting control signal output terminal Not used (open)                                                                                                                                         |
| 94      | LDOUT    | O   | Motor control signal output to the loading motor driver (IC602) “L” active *1                                                                                                                 |
| 95      | LDIN     | O   | Motor control signal output to the loading motor driver (IC602) “L” active *1                                                                                                                 |
| 96      | LIMIT-IN | I   | Detection input from the sled limit-in detect switch (S101)<br>The optical pick-up is inner position when “L”                                                                                 |
| 97      | PROTECT  | I   | Rec-proof claw detect input from the protect detect switch (S102-2) “H”: write protect                                                                                                        |
| 98      | REFLECT  | I   | Detection input from the disc reflection rate detect switch (S102-1)<br>“L”: high reflection rate disc, “H”: low reflection rate disc                                                         |
| 99      | GND      | —   | Ground terminal                                                                                                                                                                               |
| 100     | +3.3V    | —   | Power supply terminal (+3.3V)                                                                                                                                                                 |

\*1 Loading motor (M103) control

| Terminal       | Mode    |       |       |          |
|----------------|---------|-------|-------|----------|
|                | LOADING | EJECT | BRAKE | RUN IDLE |
| LDIN (pin 95)  | “L”     | “H”   | “L”   | “H”      |
| LDOUT (pin 94) | “H”     | “L”   | “L”   | “H”      |

## SECTION 7 EXPLODED VIEWS

**NOTE:**

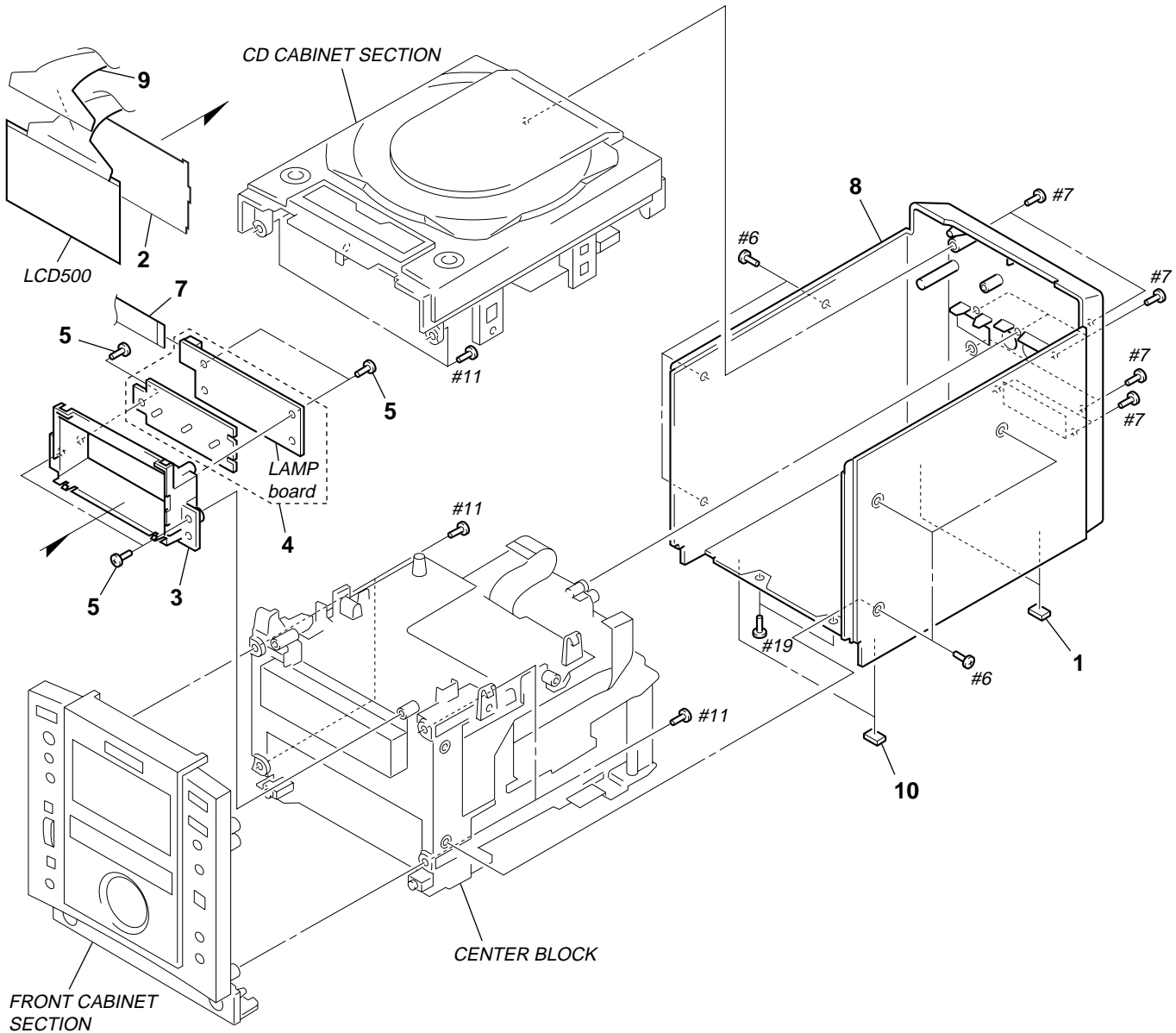
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts  
Example:  
KNOB, BALANCE (WHITE) . . . (RED)  
                                  ↑                  ↑  
                                  Parts Color Cabinet's Color
- Abbreviation  
CND : Canadian

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

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

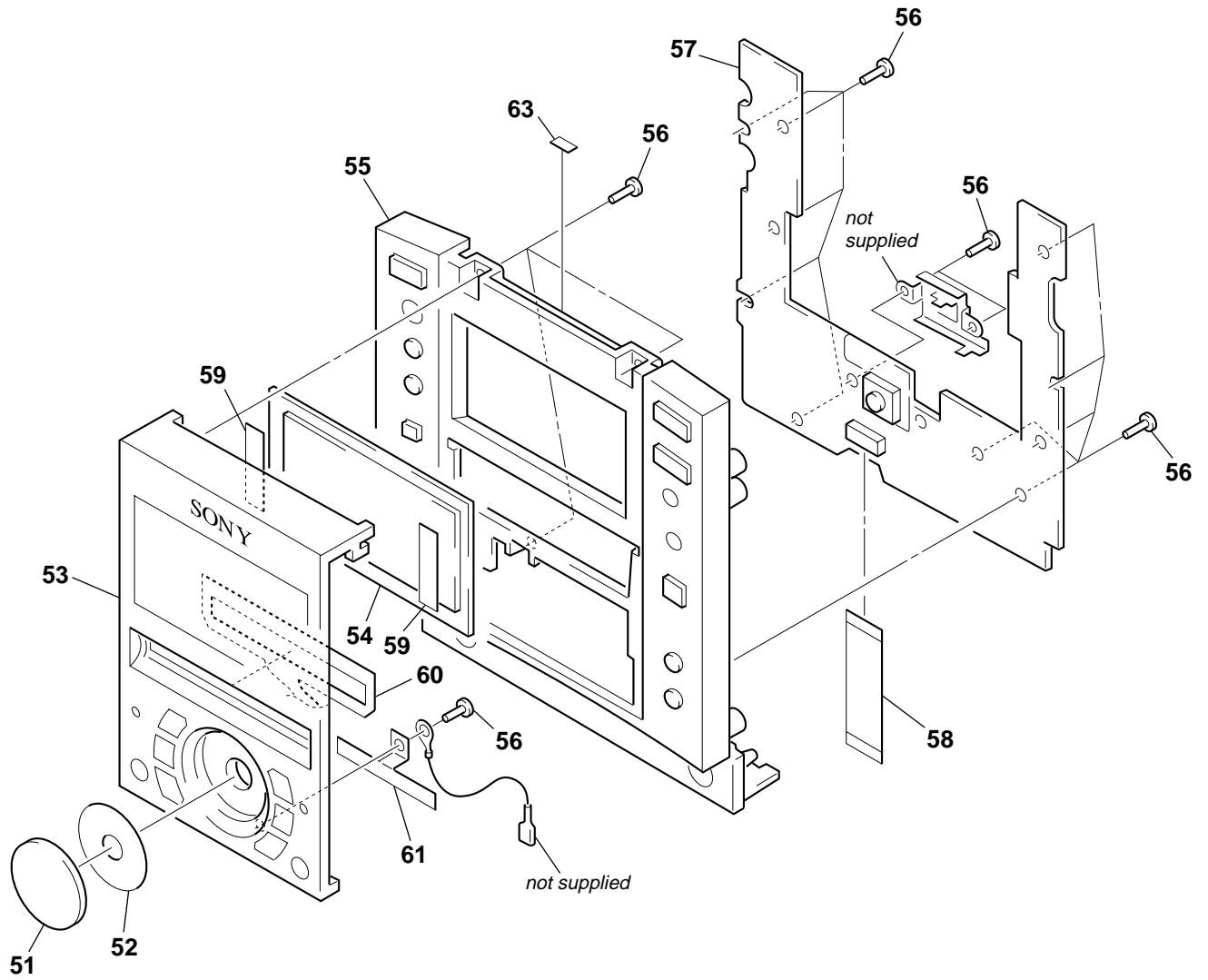
Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**(1) CASE SECTION**



| Ref. No. | Part No.     | Description                                                      | Remark | Ref. No. | Part No.     | Description                | Remark |
|----------|--------------|------------------------------------------------------------------|--------|----------|--------------|----------------------------|--------|
| 1        | 3-036-274-01 | FOOT, RUBBER                                                     |        | * 7      | 1-790-785-11 | WIRE, PARALLEL (FFC) 9P    |        |
| 2        | 3-036-465-01 | ILLUMINATOR                                                      |        | 8        | 3-036-305-01 | CABINET (REAR) (US, CND)   |        |
| 3        | 3-036-361-01 | HOLDER, LCD                                                      |        | 8        | 3-036-305-11 | CABINET (REAR) (AEP, UK)   |        |
| * 4      | A-3323-215-A | LCD BOARD, COMPLETE<br>(Including LAMP board complete) (US, CND) |        | 9        | 3-040-611-01 | SHEET (LCD), ELECTROSTATIC |        |
| * 4      | A-3323-275-A | LCD BOARD, COMPLETE<br>(Including LAMP board complete) (AEP, UK) |        | 10       | 3-040-916-01 | FOOT (F), RUBBER           |        |
| 5        | 4-951-620-01 | SCREW, (2.6X8), +BVTP                                            |        | LCD500   | 1-418-423-11 | DISPLAY PANEL UNIT         |        |

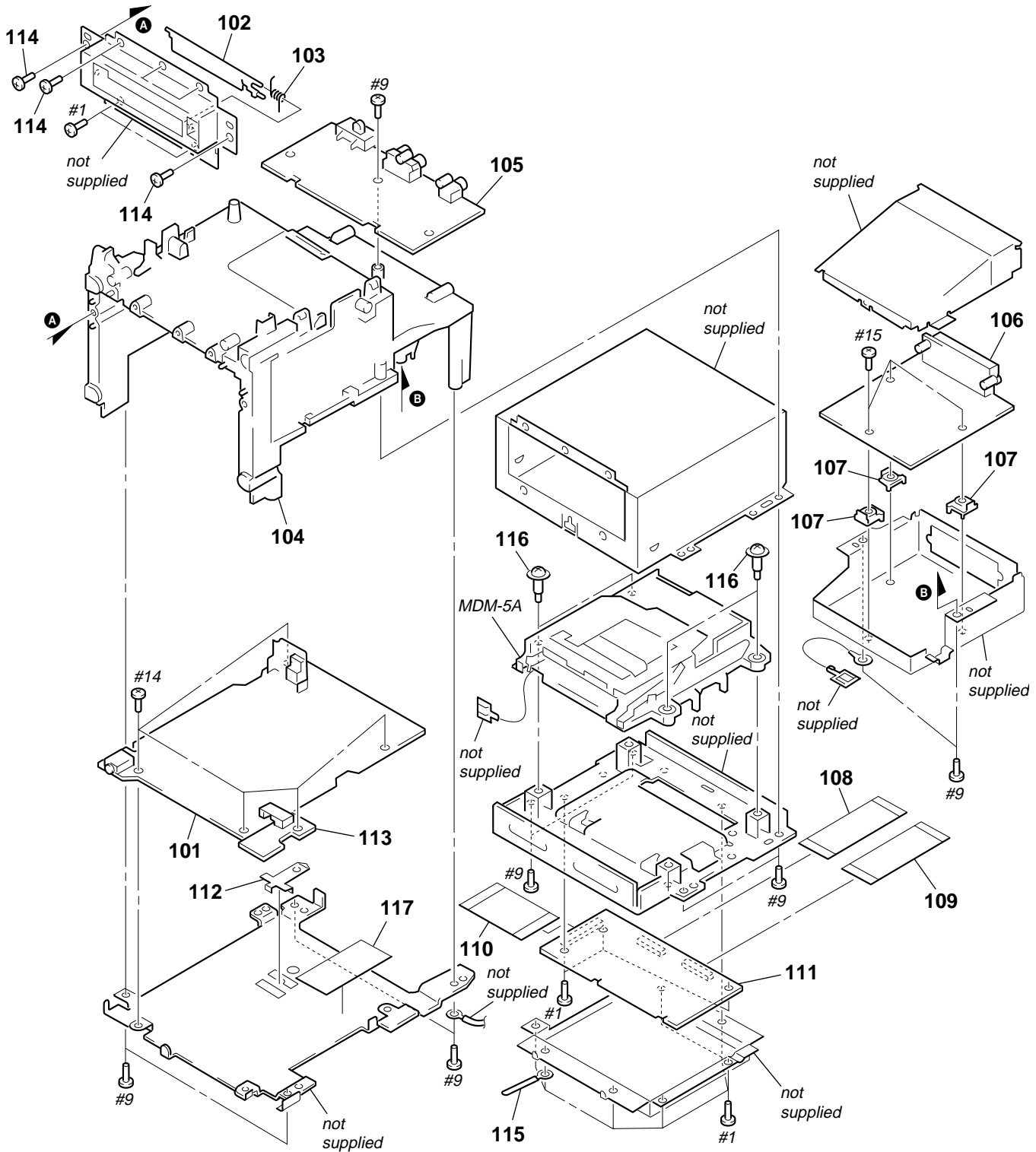
(2) FRONT CABINET SECTION



| Ref. No. | Part No.     | Description                                       | Remark    | Ref. No. | Part No.     | Description                     | Remark    |
|----------|--------------|---------------------------------------------------|-----------|----------|--------------|---------------------------------|-----------|
| 51       | 3-027-660-03 | DIAL, JOG                                         |           | 55       | X-3378-139-1 | CABINET (FRONT) SUB ASSY (WOOD) | (AEP, UK) |
| 52       | 3-036-268-01 | SHEET (JOG)                                       |           | 56       | 4-951-620-01 | SCREW (2.6X8), +BVTP            |           |
| 53       | X-3377-446-1 | PANEL ASSY, FRONT                                 |           | * 57     | A-3323-216-A | SW (FRONT) BOARD, COMPLETE      |           |
| 54       | 3-036-303-02 | WINDOW (LCD)                                      |           | * 58     | 1-790-787-11 | WIRE, PARALLEL (FFC) 12P        |           |
| 55       | X-3377-445-1 | CABINET (FRONT) SUB ASSY (GREY) (US)              |           | 59       | 3-040-319-01 | SHEET (WINDOW), ADHESIVE        |           |
| 55       | X-3377-974-1 | CABINET (FRONT) SUB ASSY (GREY)<br>(CND, AEP, UK) |           | 60       | 3-040-612-01 | SHEET (PANEL), ELECTROSTATIC    |           |
| 55       | X-3378-138-1 | CABINET (FRONT) SUB ASSY (WOOD)                   | (US, CND) | 61       | 3-039-500-01 | SHEET (FRONT), ELECTROSTATIC    |           |
|          |              |                                                   |           | 63       | 3-831-441-11 | CUSHION (B)                     |           |

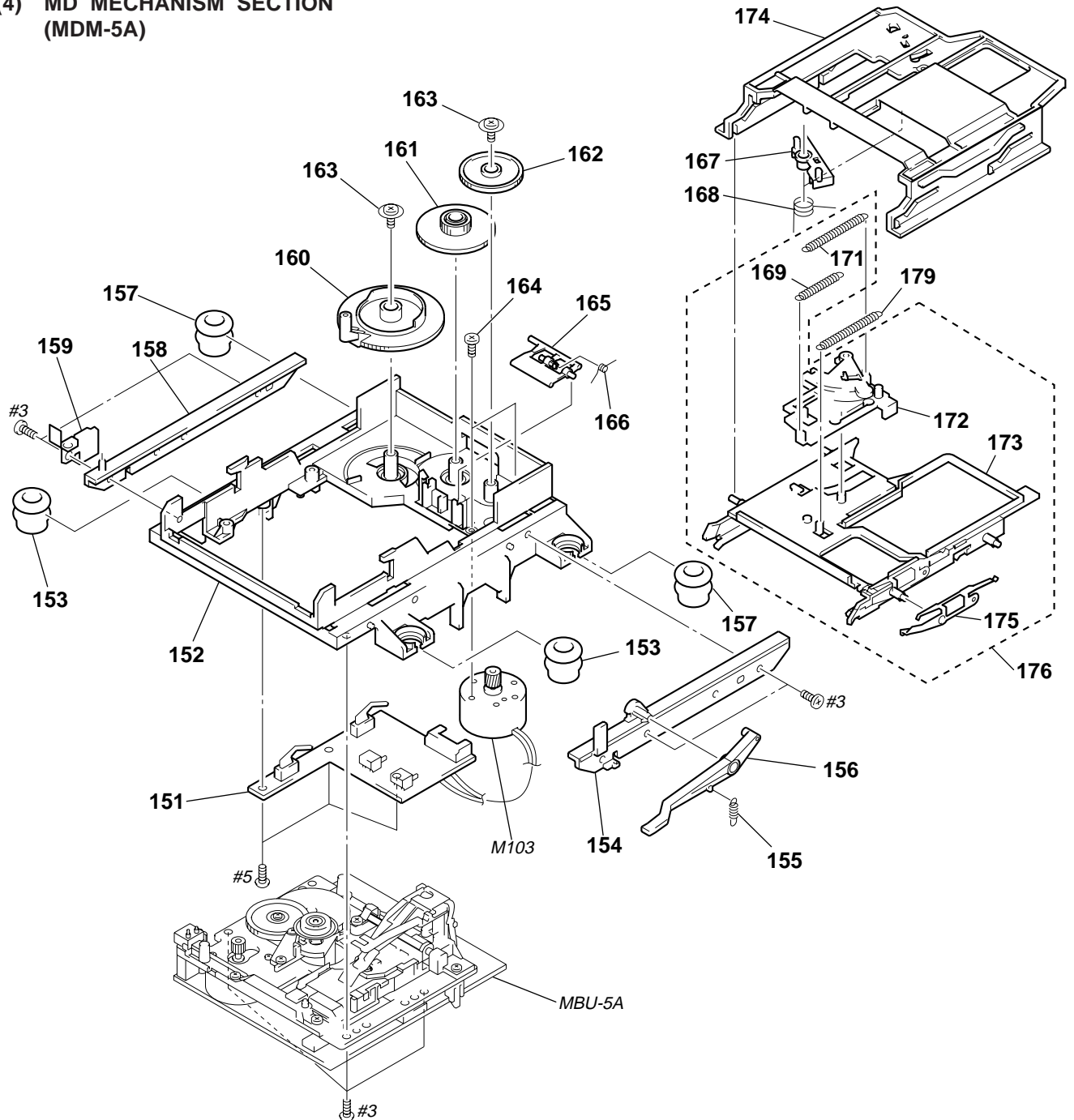


### (3) CENTER BLOCK



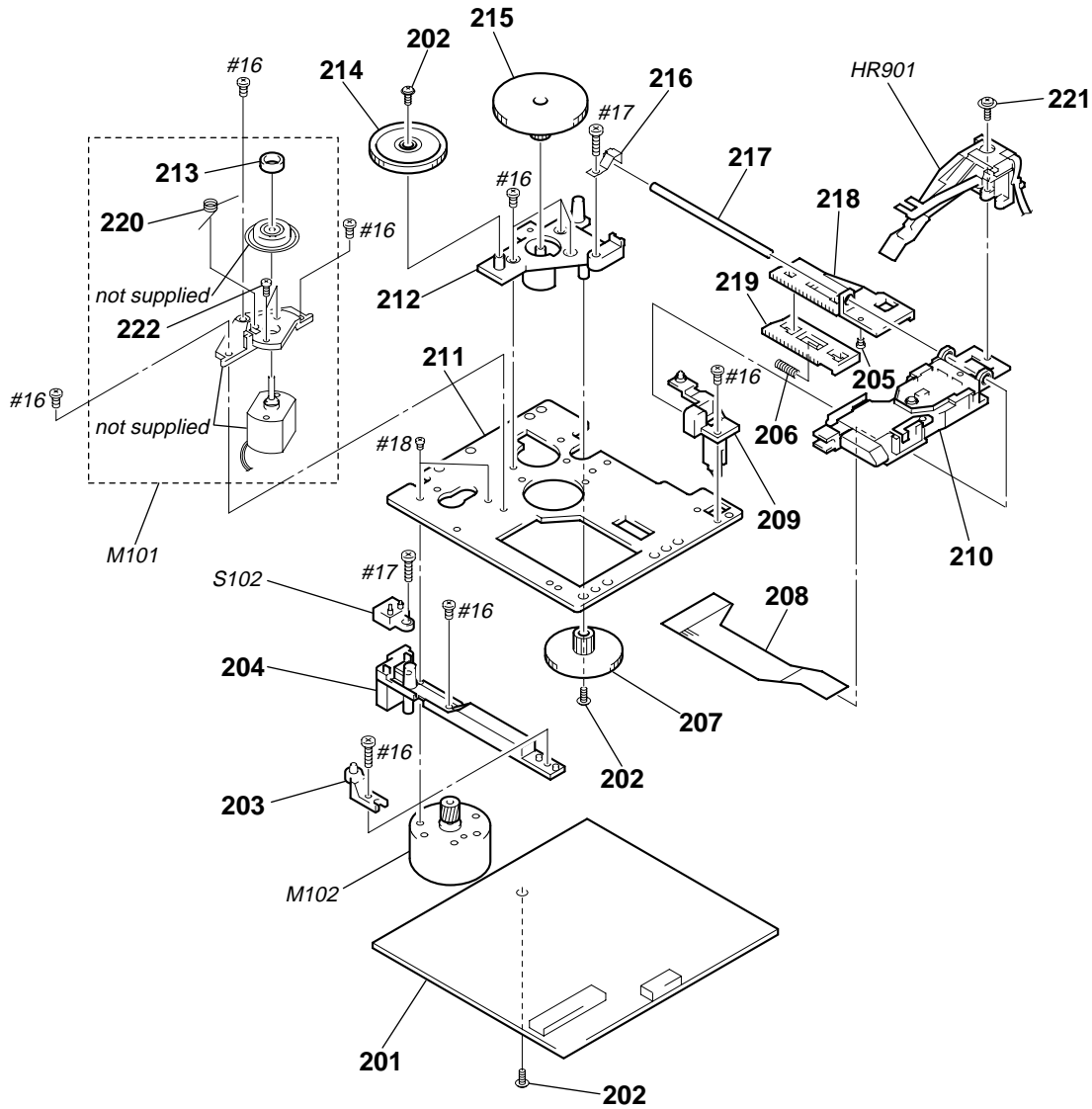
| Ref. No. | Part No.     | Description                       | Remark | Ref. No. | Part No.     | Description                  | Remark |
|----------|--------------|-----------------------------------|--------|----------|--------------|------------------------------|--------|
| * 101    | A-3321-986-A | MAIN BOARD, COMPLETE (US, CND)    |        | * 109    | 1-791-532-11 | WIRE, PARALLEL (FFC) 23P     |        |
| 101      | A-3322-139-A | MAIN BOARD, COMPLETE (AEP, UK)    |        | * 110    | 1-790-788-11 | WIRE, PARALLEL (FFC) 26P     |        |
| 102      | 3-036-318-01 | CARTRIDGE, LID                    |        | * 111    | A-3323-211-A | DG BOARD, COMPLETE (US, CND) |        |
| 103      | 3-036-311-01 | SPRING (MD LID)                   |        | * 111    | A-3323-402-A | DG BOARD, COMPLETE (AEP, UK) |        |
| * 104    | 3-036-294-01 | CHASSIS (MAIN)                    |        | * 112    | 3-036-464-01 | PLATE (RESET)                |        |
| * 105    | A-3321-988-A | AU/JACK BOARD, COMPLETE (US, CND) |        | * 113    | 1-674-446-11 | LINE IN BOARD                |        |
| * 105    | A-3322-141-A | AU/JACK BOARD, COMPLETE (AEP, UK) |        | 114      | 4-951-620-01 | SCREW (2.6X8), +BVTP         |        |
| * 106    | A-3323-212-A | TU BOARD, COMPLETE (US, CND)      |        | * 115    | 3-703-150-11 | CLAMP                        |        |
| * 106    | A-3323-274-A | TU BOARD, COMPLETE (AEP, UK)      |        | 116      | 4-999-839-11 | SCREW (+BVTTWH M3), STEP     |        |
| * 107    | 3-036-266-01 | SPACER                            |        | 117      | 3-040-739-01 | COVER (BOTTOM PLATE)         |        |
| * 108    | 1-791-531-11 | WIRE, PARALLEL (FFC) 21P          |        |          |              |                              |        |

(4) MD MECHANISM SECTION  
(MDM-5A)



| Ref. No. | Part No.     | Description                  | Remark | Ref. No. | Part No.     | Description                   | Remark |
|----------|--------------|------------------------------|--------|----------|--------------|-------------------------------|--------|
| 151      | 1-671-115-21 | SW BOARD                     |        | 165      | 4-996-227-01 | LEVER (HEAD)                  |        |
| * 152    | 4-996-217-01 | CHASSIS                      |        | 166      | 4-996-229-01 | SPRING (HEAD LEVER), TORSION  |        |
| 153      | 4-996-223-11 | INSULATOR (F) (BLACK)        |        | 167      | 4-996-212-01 | LEVER (LIMITER)               |        |
| * 154    | 4-996-218-01 | BRACKET (GUIDE R)            |        | 168      | 4-996-213-01 | SPRING (LIMITER), TORSION     |        |
| 155      | 4-996-277-01 | SPRING (O/C), TENSION        |        | 169      | 4-996-214-01 | SPRING (SLIDER), TENSION      |        |
| 156      | 4-996-226-01 | LEVER (O/C)                  |        | 171      | 4-996-215-11 | SPRING (LOCK), TENSION        |        |
| 157      | 4-999-347-01 | INSULATOR (R) (GREEN)        |        | 172      | X-4949-246-1 | SLIDER ASSY                   |        |
| * 158    | 4-996-225-01 | BRACKET (GUIDE L)            |        | * 173    | X-4949-245-6 | HOLDER ASSY                   |        |
| 159      | 4-988-466-11 | SPRING (ELECTROSTATIC), LEAF |        | * 174    | 4-996-211-01 | SLIDER (CAM)                  |        |
| 160      | 4-996-219-01 | GEAR (CAM GEAR)              |        | 175      | 4-998-763-01 | SPRING (SHUTTER), LEAF        |        |
| 161      | 4-996-220-01 | GEAR (A)                     |        | 176      | A-4680-417-A | HOLDER COMPLETE ASSY          |        |
| 162      | 4-996-221-01 | GEAR (B)                     |        | 179      | 4-996-216-01 | SPRING, EXTENSION             |        |
| 163      | 4-933-134-01 | SCREW (+PTPWH M2.6X6)        |        | M103     | X-4949-264-1 | MOTOR ASSY, LOADING (LOADING) |        |
| 164      | 4-996-224-01 | SCREW (1.7X3), +PWH          |        |          |              |                               |        |

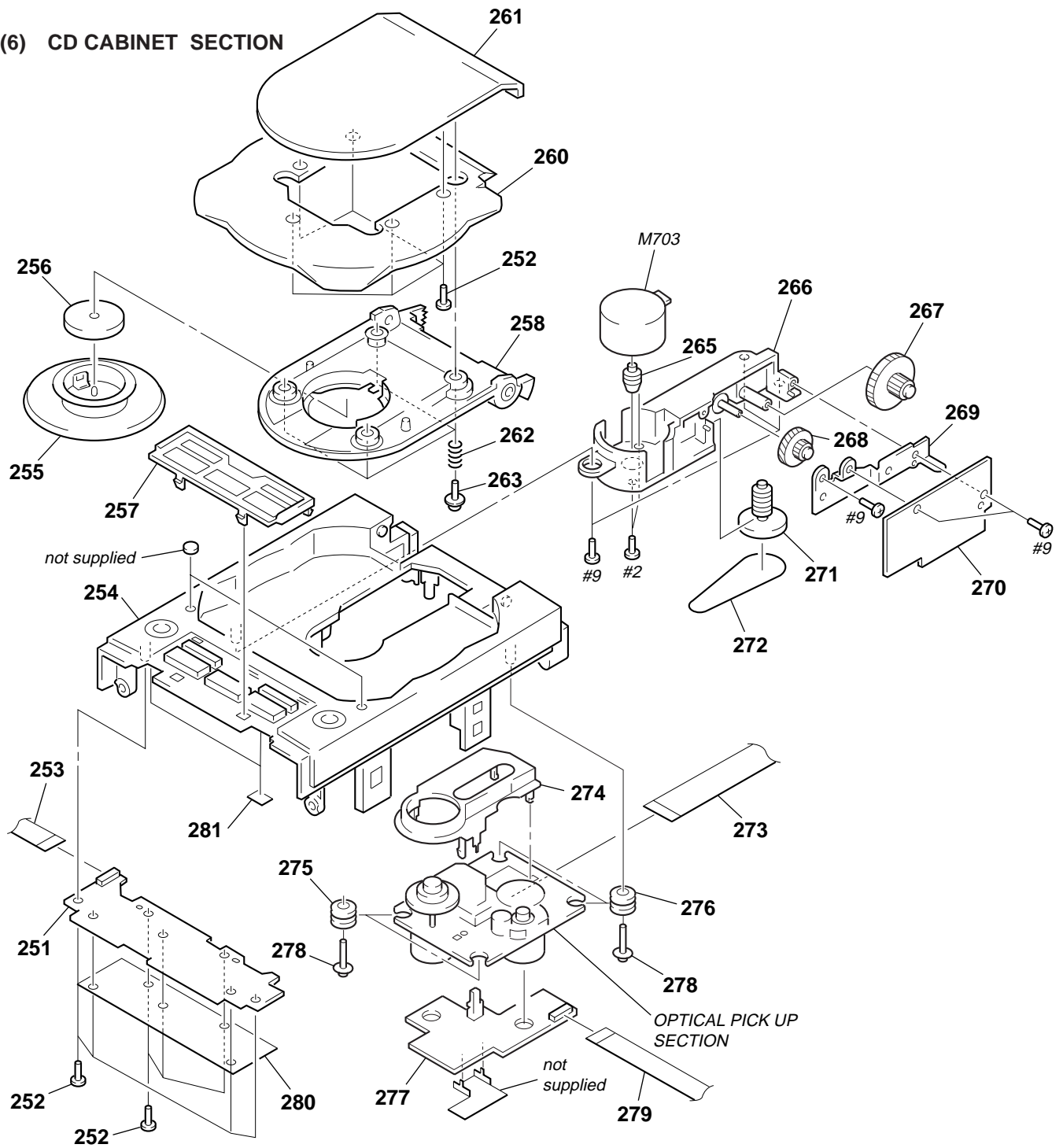
(5) BASE UNIT SECTION  
(MBU-5A)



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

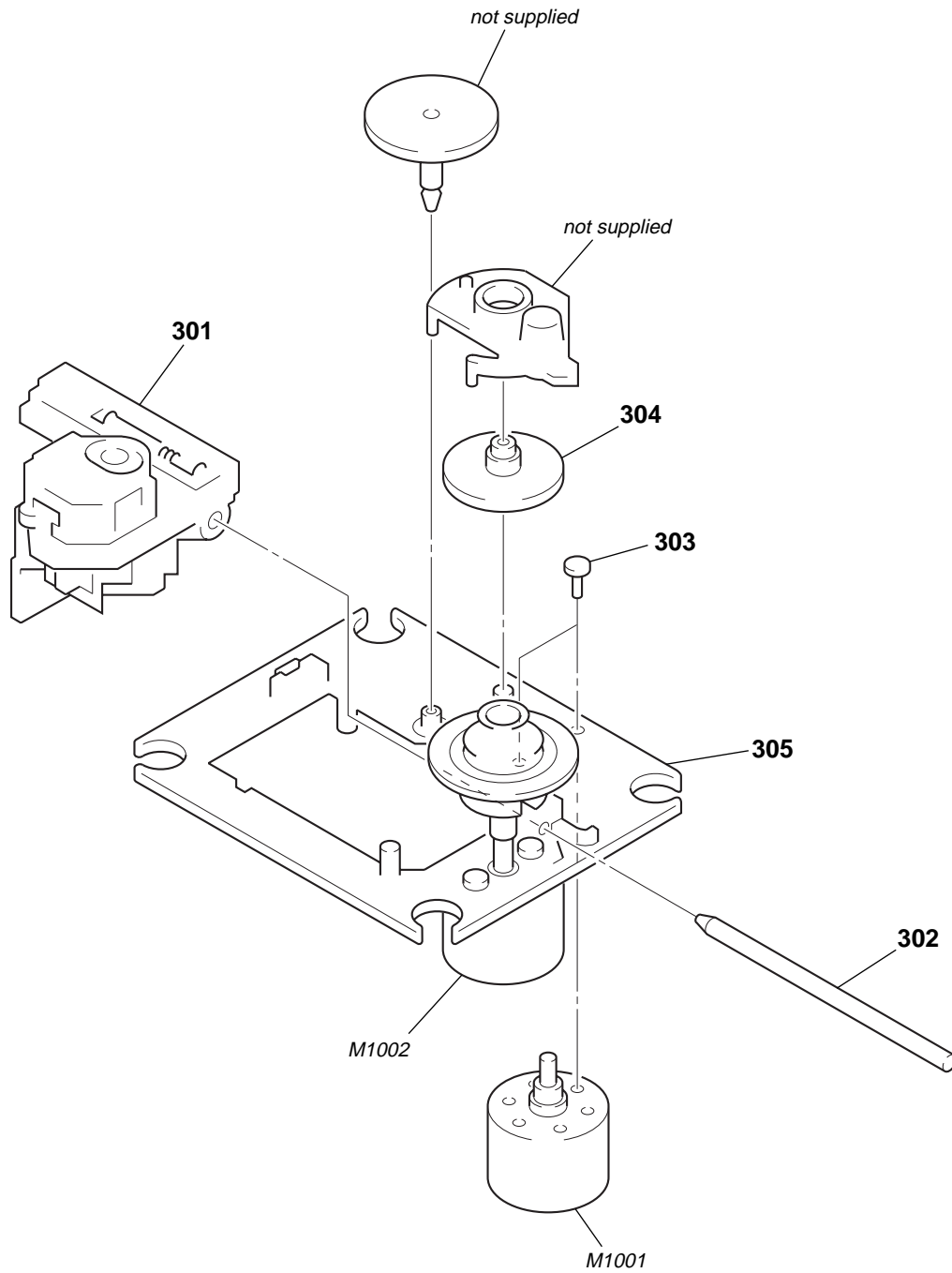
| Ref. No.     | Part No.     | Description                       | Remark | Ref. No. | Part No.     | Description                            | Remark |
|--------------|--------------|-----------------------------------|--------|----------|--------------|----------------------------------------|--------|
| * 201        | A-4699-893-A | BD BOARD, COMPLETE                |        | 215      | 4-996-261-01 | GEAR (SL-B)                            |        |
| 202          | 3-372-761-01 | SCREW (M1.7), TAPPING             |        | 216      | 4-996-264-01 | SPRING (SHAFT), LEAF                   |        |
| * 203        | 4-996-267-01 | BASE (BU-D)                       |        | 217      | 4-996-265-01 | SHAFT, MAIN                            |        |
| * 204        | 4-996-255-01 | BASE (BU-C)                       |        | 218      | 4-996-256-01 | SL (BASE)                              |        |
| 205          | 4-900-590-01 | SCREW, PRECISION SMALL            |        | 219      | 4-996-257-01 | RACK (SL)                              |        |
| 206          | 4-996-258-01 | SPRING, COMPRESSION               |        | 220      | 4-996-263-01 | SPRING (CLV), TORSION                  |        |
| 207          | 4-996-262-01 | GEAR (SL-C)                       |        | 221      | 4-988-560-01 | SCREW (+P 1.7X6)                       |        |
| 208          | 1-667-954-11 | FLEXIBLE BOARD                    |        | 222      | 4-211-036-01 | SCREW (1.7X2.5), +PWH                  |        |
| * 209        | 4-996-253-01 | BASE (BU-A)                       |        | HR901    | 1-500-502-11 | HEAD, OVER WRITE                       |        |
| $\Delta$ 210 | 8-583-028-02 | OPTICAL PICK-UP KMS-260A (for MD) |        | M101     | A-4672-475-A | MOTOR ASSY, SPINDLE (SPINDLE) (for MD) |        |
| * 211        | 4-996-252-01 | CHASSIS, BU                       |        | M102     | A-4672-474-A | MOTOR ASSY, SLED (SLED) (for MD)       |        |
| * 212        | 4-996-254-01 | BASE (BU-B)                       |        | S102     | 1-762-148-21 | SWITCH, PUSH (2 KEY)                   |        |
| 213          | 4-967-688-11 | MAGNET, ABSORPTION                |        |          |              | (REFLECT RATE/PROTECT DETECT)          |        |
| 214          | 4-996-260-01 | GEAR (SL-A)                       |        |          |              |                                        |        |

**(6) CD CABINET SECTION**



| Ref. No. | Part No.     | Description              | Remark | Ref. No. | Part No.     | Description                      | Remark |
|----------|--------------|--------------------------|--------|----------|--------------|----------------------------------|--------|
| * 251    | A-3321-990-A | SW (TOP) BOARD, COMPLETE |        | 269      | 3-036-288-01 | PLATE (GEAR), RETAINER           |        |
| 252      | 4-951-620-01 | SCREW (2.6X8), +BVTP     |        | * 270    | A-3321-992-A | CD O/C BOARD, COMPLETE (US, CND) |        |
| * 253    | 1-790-786-11 | WIRE, PARALLEL (FFC) 8P  |        | * 270    | A-3322-149-A | CD O/C BOARD, COMPLETE (AEP, UK) |        |
| 254      | X-3377-482-1 | CABINET (UPPER) ASSY     |        | 271      | 3-017-031-11 | GEAR (A)                         |        |
| 255      | 3-036-467-01 | PLATE, CHUCKING          |        | 272      | 3-017-030-01 | BELT                             |        |
| 256      | 1-452-899-11 | MAGNET                   |        | * 273    | 1-790-784-11 | WIRE, PARALLEL (FFC) 16P         |        |
| 257      | 3-036-362-01 | PANEL, TOP               |        | 274      | 3-923-736-01 | COVER, CD                        |        |
| 258      | 3-036-363-01 | HOLDER, CHUCKING         |        | 275      | 3-910-095-31 | RUBBER, VIBRATION PROOF (GREEN)  |        |
| 260      | 3-036-307-01 | LID, CD                  |        | 276      | 3-910-095-21 | RUBBER, VIBRATION PROOF (RED)    |        |
| 261      | 3-036-306-01 | PLATE, CD ORNAMENTAL     |        | * 277    | A-3321-991-A | CD MOTOR BOARD, COMPLETE         |        |
| 262      | 3-036-466-01 | SPRING (CD LID), COIL    |        | 278      | 3-921-725-01 | SCREW (2.6X10), +PWH             |        |
| 263      | 3-029-901-01 | SCREW (3X8)              |        | * 279    | 1-791-028-11 | WIRE, PARALLEL (FFC) 11P         |        |
| 265      | 2-627-174-01 | PULLEY (M)               |        | 280      | 3-040-738-01 | COVER (TOP PC BOARD)             |        |
| 266      | 3-036-309-01 | CHASSIS, MOTOR           |        | 281      | 3-831-441-11 | CUSHION B                        |        |
| 267      | 3-036-358-01 | GEAR (C)                 |        | M703     | 1-698-999-11 | MOTOR, DC (CD LID OPEN/CLOSE)    |        |
| 268      | 3-036-319-01 | GEAR (B)                 |        |          |              |                                  |        |

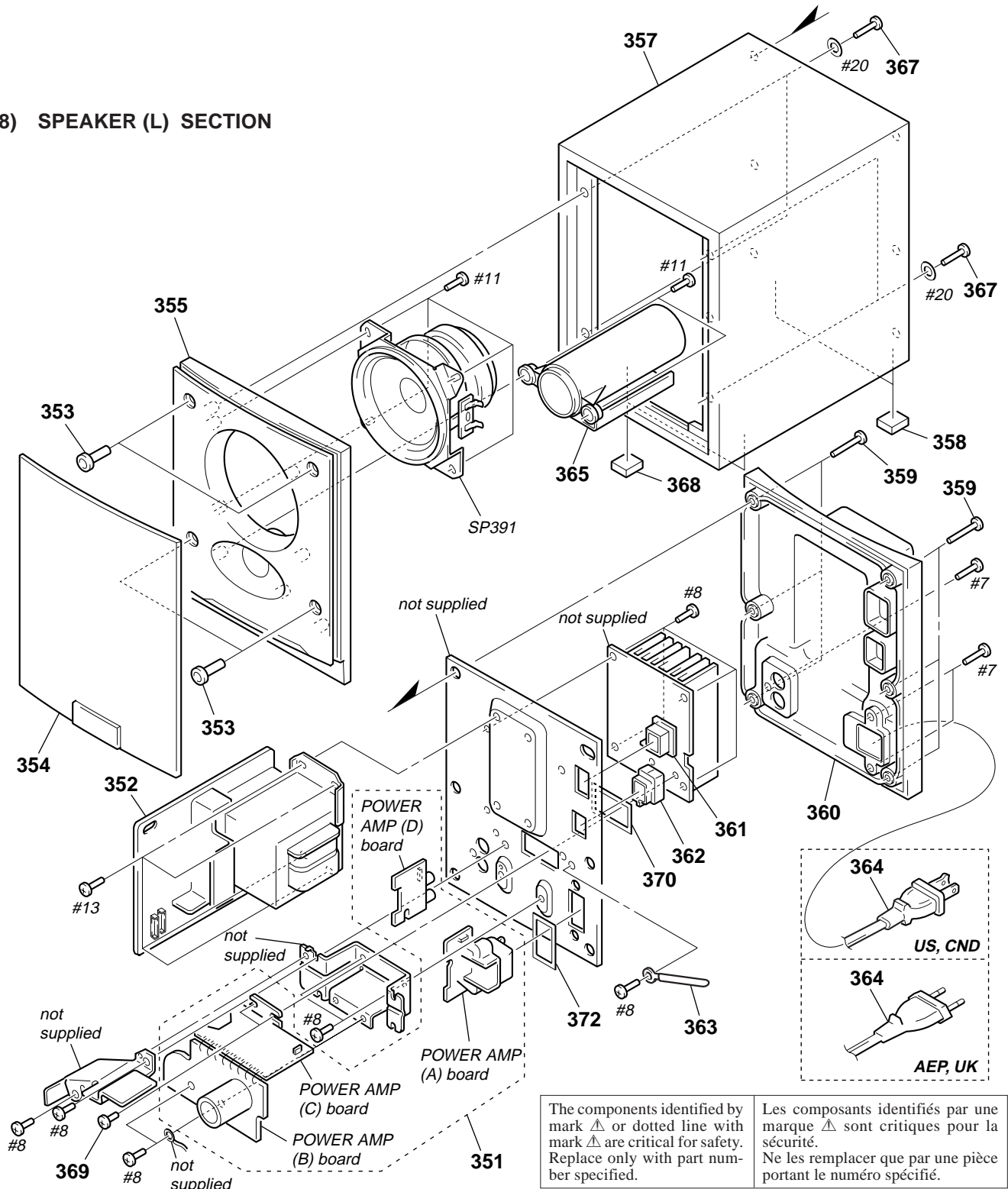
**(7) OPTICAL PICK-UP SECTION  
(KSM-213CGP)**



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

| Ref. No.        | Part No.     | Description                       | Remark | Ref. No. | Part No.     | Description                                                | Remark |
|-----------------|--------------|-----------------------------------|--------|----------|--------------|------------------------------------------------------------|--------|
| $\triangle$ 301 | 8-848-483-05 | OPTICAL PICK-UP KSS-213C (for CD) |        | 305      | X-2646-381-1 | SPINDLE MOTOR ASSY (SPINDLE)<br>(INCLUDING M1002) (for CD) |        |
| 302             | 2-626-908-01 | SHAFT, SLED                       |        | M1001    | X-2625-769-1 | SLED MOTOR (WITH GEAR) ASSY (SLED)<br>(for CD)             |        |
| 303             | 3-713-786-51 | SCREW +P2X3                       |        |          |              |                                                            |        |
| 304             | 2-627-003-02 | GEAR (B) (RP)                     |        |          |              |                                                            |        |

**(8) SPEAKER (L) SECTION**

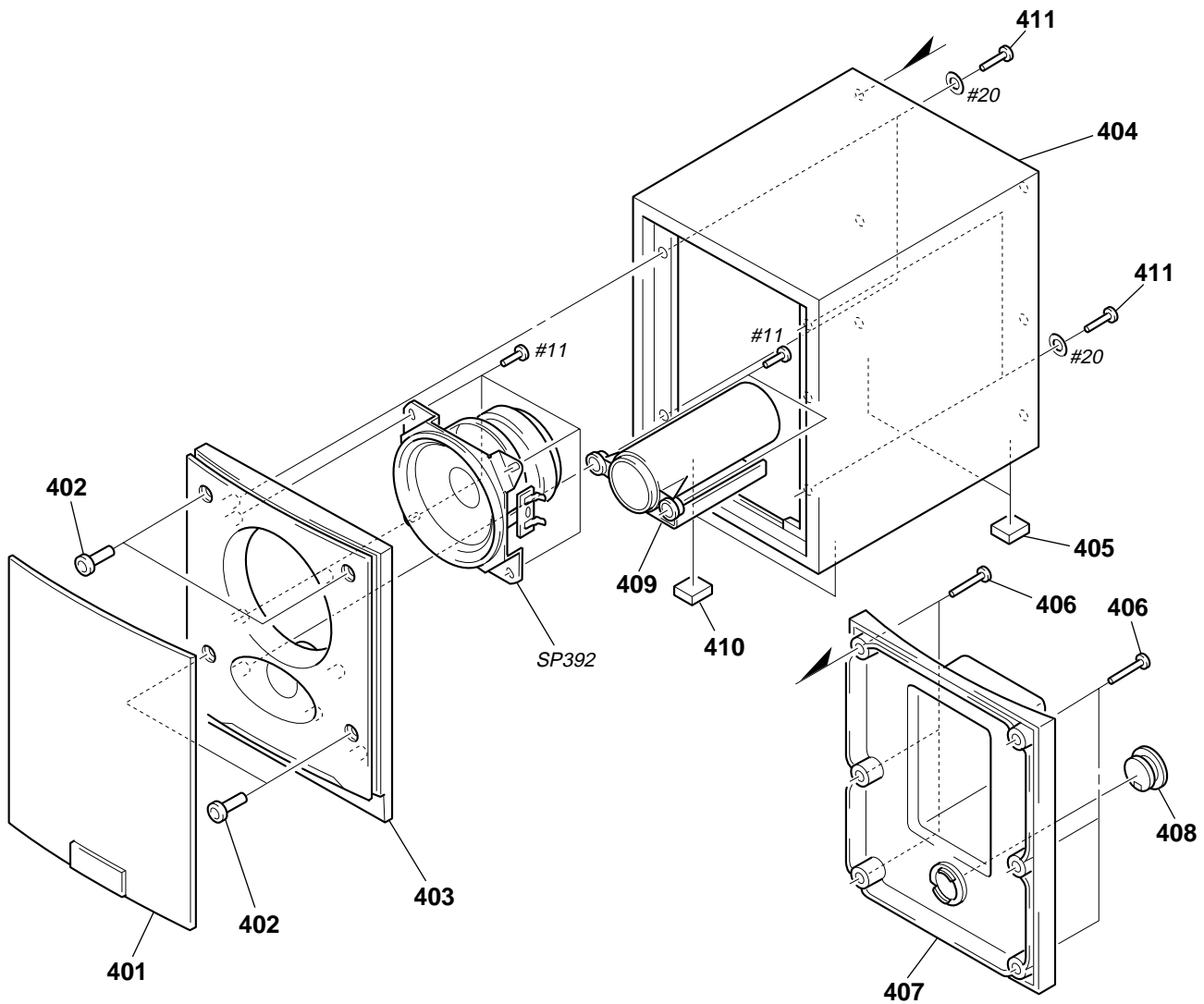


The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

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

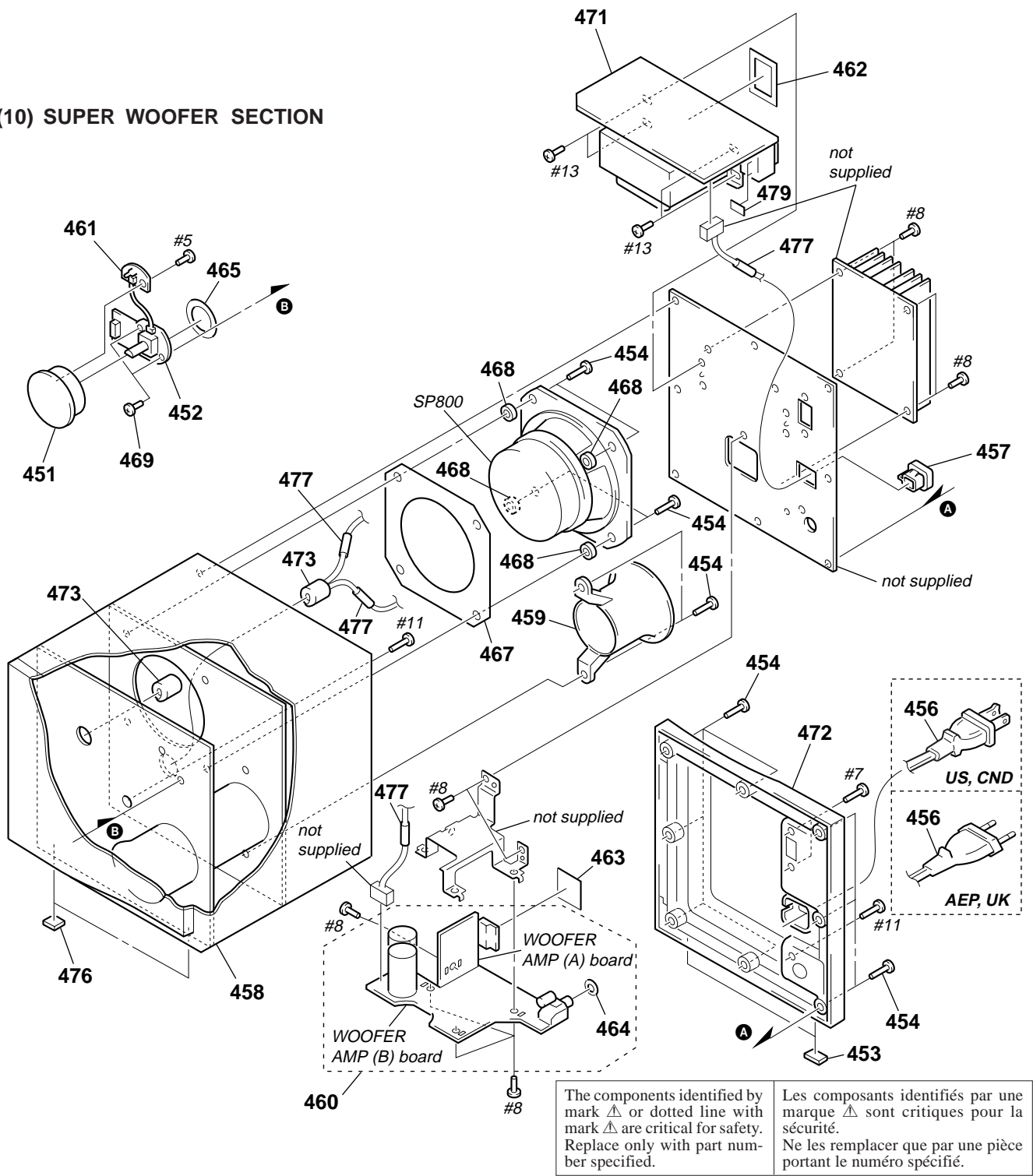
| Ref. No. | Part No.     | Description                                                           | Remark    | Ref. No.     | Part No.     | Description                  | Remark |
|----------|--------------|-----------------------------------------------------------------------|-----------|--------------|--------------|------------------------------|--------|
| * 351    | A-3323-217-A | POWER AMP BOARD, COMPLETE<br>(Including POWER AMP (A, B, C, D) board) | (US, CND) | 359          | 3-029-171-01 | SCREW, +B TAPPING            |        |
| * 351    | A-3323-354-A | POWER AMP BOARD, COMPLETE<br>(Including POWER AMP (A, B, C, D) board) | (AEP, UK) | * 360        | 3-036-284-01 | CABINET (REAR) (SP-L) (GREY) |        |
| * 352    | A-3321-995-A | POWER BOARD, COMPLETE (US, CND)                                       |           | * 360        | 3-036-284-11 | CABINET (REAR) (SP-L) (WOOD) |        |
| * 352    | A-3322-152-A | POWER BOARD, COMPLETE (AEP, UK)                                       |           | 361          | 3-036-280-01 | BUSHING (9 PIN), CORD        |        |
| * 353    | 4-963-075-01 | CATCHER                                                               |           | * 362        | 3-703-244-21 | BUSHING (2104), CORD         |        |
| 354      | X-3377-661-1 | NET ASSY, CHASSIS                                                     |           | * 363        | 3-703-150-11 | CLAMP                        |        |
| * 355    | 3-036-286-01 | CABINET (FRONT) (SP) (GREY)                                           |           | $\Delta$ 364 | 1-783-531-21 | CORD, POWER (US, CND)        |        |
| * 355    | 3-036-286-11 | CABINET (FRONT) (SP) (WOOD)                                           |           | $\Delta$ 364 | 1-575-651-11 | CORD, POWER (AEP, UK)        |        |
| * 357    | 3-036-281-01 | BOX (SP), SPEAKER (GREY) (US)                                         |           | * 365        | 3-037-476-01 | DUCT (SP)                    |        |
| * 357    | 3-036-281-11 | BOX (SP), SPEAKER (WOOD) (US, CND)                                    |           | 367          | 3-040-882-01 | SCREW (+P3X18), HOLE TAPPING |        |
| * 357    | 3-036-281-21 | BOX (SP), SPEAKER (GREY) (AEP)                                        |           | 368          | 3-040-916-01 | FOOT (F), RUBBER             |        |
| * 357    | 3-036-281-31 | BOX (SP), SPEAKER (WOOD) (AEP, UK)                                    |           | 369          | 4-960-167-01 | SCREW (3X8) (DIA. 10). +WH   |        |
| 358      | 3-036-274-01 | FOOT, RUBBER                                                          |           | 370          | 3-040-574-01 | CUSHION (SP-L)               |        |
|          |              |                                                                       |           | * 372        | 3-040-737-01 | CUSHION (SP OUT)             |        |
|          |              |                                                                       |           | SP391        | 1-529-363-11 | SPEAKER (L-CH)               |        |

**(9) SPEAKER (R) SECTION**



| Ref. No. | Part No.     | Description                        | Remark | Ref. No. | Part No.     | Description                  | Remark |
|----------|--------------|------------------------------------|--------|----------|--------------|------------------------------|--------|
| 401      | X-3377-661-1 | NET ASSY, CHASSIS                  |        | 405      | 3-036-274-01 | FOOT, RUBBER                 |        |
| * 402    | 4-963-075-01 | CATCHER                            |        | 406      | 3-029-171-01 | SCREW, +B TAPPING            |        |
| * 403    | 3-036-286-01 | CABINET (FRONT) (SP) (GREY)        |        | * 407    | 3-036-285-01 | CABINET (REAR) (SP-R) (GREY) |        |
| * 403    | 3-036-286-11 | CABINET (FRONT) (SP) (WOOD)        |        | 408      | 3-904-982-01 | STOPPER, CORD                |        |
| * 404    | 3-036-281-01 | BOX (SP), SPEAKER (GREY) (US)      |        | * 409    | 3-037-476-01 | DUCT (SP)                    |        |
| * 404    | 3-036-281-11 | BOX (SP), SPEAKER (WOOD) (US, CND) |        | 410      | 3-040-916-01 | FOOT (F), RUBBER             |        |
| * 404    | 3-036-281-21 | BOX (SP), SPEAKER (GREY) (AEP)     |        | 411      | 3-040-882-01 | SCREW (+P3X18), HOLE TAPPING |        |
| * 404    | 3-036-281-31 | BOX (SP), SPEAKER (WOOD) (AEP, UK) |        | SP392    | 1-529-363-11 | SPEAKER (R-CH)               |        |

**(10) SUPER WOOFER SECTION**



| Ref. No. | Part No. | Description                                                                                  | Remark |
|----------|----------|----------------------------------------------------------------------------------------------|--------|
|          | 451      | 3-036-356-01 KNOB (VOL)                                                                      |        |
| *        | 452      | 1-674-438-11 W-VOLUME BOARD (US, CND)                                                        |        |
| *        | 452      | 1-674-438-21 W-VOLUME BOARD (AEP, UK)                                                        |        |
|          | 453      | 3-036-274-01 FOOT, RUBBER                                                                    |        |
|          | 454      | 3-029-171-01 SCREW, +B TAPPING                                                               |        |
| Δ        | 456      | 1-783-531-21 CORD, POWER (US, CND)                                                           |        |
| Δ        | 456      | 1-575-651-11 CORD, POWER (CND, AEP, UK)                                                      |        |
| *        | 457      | 3-703-244-11 BUSHING (2104), CORD                                                            |        |
|          | 458      | X-3378-113-1 WOOFER (FRONT) ASSY, SUPER (GREY) (US)                                          |        |
|          | 458      | X-3378-428-1 WOOFER (FRONT) ASSY, SUPER (WOOD) (US, CND)                                     |        |
|          | 458      | X-3378-429-1 WOOFER (FRONT) ASSY, SUPER (GREY) (AEP)                                         |        |
|          | 458      | X-3378-430-1 WOOFER (FRONT) ASSY, SUPER (WOOD) (AEP, UK)                                     |        |
| *        | 459      | 3-036-277-01 DUCT (SW)                                                                       |        |
| *        | 460      | A-3323-220-A WOOFER AMP BOARD, COMPLETE (Including WOOFER AMP(A, B) board complete)(US, CND) |        |
| *        | 460      | A-3323-280-A WOOFER AMP BOARD, COMPLETE (Including WOOFER AMP(A, B) board complete)(AEP, UK) |        |

| Ref. No. | Part No. | Description                                | Remark |
|----------|----------|--------------------------------------------|--------|
| *        | 461      | 1-674-439-11 W-LED BOARD (US, CND)         |        |
| *        | 461      | 1-674-439-21 W-LED BOARD (AEP, UK)         |        |
|          | 462      | 3-038-131-01 CUSHION (AC-OUT)              |        |
|          | 463      | 3-038-132-01 SHEET, INSULATING             |        |
|          | 464      | 3-038-136-01 CUSHION (SIGNAL IN)           |        |
|          | 465      | 3-040-317-01 SPACER (VOLUME)               |        |
|          | 467      | 3-038-133-01 PACKING                       |        |
|          | 468      | 3-038-134-01 CUSHION (SP)                  |        |
|          | 469      | 4-951-620-01 SCREW (2.6X8), +BVTP          |        |
| *        | 471      | 1-674-440-11 W-POWER BOARD (US, CND)       |        |
| *        | 471      | 1-674-440-21 W-POWER BOARD (AEP, UK)       |        |
| *        | 472      | 3-036-279-01 COVER (SW) (US, CND)          |        |
| *        | 472      | 3-036-279-11 COVER (SW) (AEP, UK)          |        |
|          | 473      | 3-040-639-01 SPONGE (SW)                   |        |
|          | 476      | 3-040-916-01 FOOT (F), RUBBER              |        |
|          | 477      | 3-840-486-02 CUSHION (SPEAKER)             |        |
|          | 479      | 3-040-315-01 COVER (AC OUT)                |        |
|          | SP800    | 1-529-134-11 SPEAKER (10cm) (SUPER WOOFER) |        |



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

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

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

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

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

| Ref. No. | Part No.     | Description                       | Remark          | Ref. No. | Part No.     | Description                                   | Remark                    |
|----------|--------------|-----------------------------------|-----------------|----------|--------------|-----------------------------------------------|---------------------------|
| *        | A-3321-988-A | AU/JACK BOARD, COMPLETE (US, CND) |                 | C359     | 1-104-665-11 | ELECT                                         | 100uF 20% 10V             |
| *        | A-3322-141-A | AU/JACK BOARD, COMPLETE (AEP, UK) |                 | C360     | 1-104-665-11 | ELECT                                         | 100uF 20% 10V             |
|          |              | *****                             |                 | C361     | 1-104-665-11 | ELECT                                         | 100uF 20% 10V             |
|          |              | < CAPACITOR >                     |                 | C362     | 1-163-009-11 | CERAMIC CHIP                                  | 0.001uF 10% 50V (AEP, UK) |
| C151     | 1-126-960-11 | ELECT                             | 1uF 20% 50V     | C363     | 1-104-664-11 | ELECT                                         | 47uF 20% 16V              |
| C152     | 1-163-037-11 | CERAMIC CHIP                      | 0.022uF 10% 25V | C364     | 1-104-664-11 | ELECT                                         | 47uF 20% 16V              |
| C153     | 1-107-823-11 | CERAMIC CHIP                      | 0.47uF 10% 16V  | C365     | 1-126-962-11 | ELECT                                         | 3.3uF 20% 50V             |
| C154     | 1-163-021-11 | CERAMIC CHIP                      | 0.01uF 10% 50V  | C366     | 1-104-665-11 | ELECT                                         | 100uF 20% 10V             |
| C155     | 1-107-725-11 | CERAMIC CHIP                      | 0.1uF 10% 16V   | C367     | 1-107-725-11 | CERAMIC CHIP                                  | 0.1uF 10% 16V             |
| C156     | 1-107-725-11 | CERAMIC CHIP                      | 0.1uF 10% 16V   | C368     | 1-126-960-11 | ELECT                                         | 1uF 20% 50V               |
| C157     | 1-126-959-11 | ELECT                             | 0.47uF 20% 50V  | C369     | 1-126-963-11 | ELECT                                         | 4.7uF 20% 50V             |
| C158     | 1-164-345-11 | CERAMIC CHIP                      | 0.082uF 10% 25V | C370     | 1-126-966-11 | ELECT                                         | 33uF 20% 16V              |
| C159     | 1-164-345-11 | CERAMIC CHIP                      | 0.082uF 10% 25V | C371     | 1-126-937-11 | ELECT                                         | 4700uF 20% 16V            |
| C160     | 1-126-964-11 | ELECT                             | 10uF 20% 50V    | C372     | 1-163-021-11 | CERAMIC CHIP                                  | 0.01uF 10% 50V            |
| C161     | 1-163-009-11 | CERAMIC CHIP                      | 0.001uF 10% 50V | C373     | 1-126-926-11 | ELECT                                         | 1000uF 20% 10V            |
| C162     | 1-163-125-00 | CERAMIC CHIP                      | 220PF 5% 50V    | C374     | 1-163-021-11 | CERAMIC CHIP                                  | 0.01uF 10% 50V            |
| C163     | 1-104-665-11 | ELECT                             | 100uF 20% 10V   | C375     | 1-104-665-11 | ELECT                                         | 100uF 20% 10V             |
| C164     | 1-107-725-11 | CERAMIC CHIP                      | 0.1uF 10% 16V   | C376     | 1-104-665-11 | ELECT                                         | 100uF 20% 10V             |
| C165     | 1-104-665-11 | ELECT                             | 100uF 20% 10V   | C378     | 1-163-021-11 | CERAMIC CHIP                                  | 0.01uF 10% 50V            |
| C166     | 1-107-823-11 | CERAMIC CHIP                      | 0.47uF 10% 16V  | C379     | 1-163-021-11 | CERAMIC CHIP                                  | 0.01uF 10% 50V            |
| C251     | 1-126-960-11 | ELECT                             | 1uF 20% 50V     | C380     | 1-104-665-11 | ELECT                                         | 100uF 20% 10V             |
| C252     | 1-163-037-11 | CERAMIC CHIP                      | 0.022uF 10% 25V | C381     | 1-104-665-11 | ELECT                                         | 100uF 20% 10V             |
| C253     | 1-107-823-11 | CERAMIC CHIP                      | 0.47uF 10% 16V  | C382     | 1-104-665-11 | ELECT                                         | 100uF 20% 10V             |
| C254     | 1-163-021-11 | CERAMIC CHIP                      | 0.01uF 10% 50V  | C383     | 1-163-021-11 | CERAMIC CHIP                                  | 0.01uF 10% 50V            |
| C255     | 1-107-725-11 | CERAMIC CHIP                      | 0.1uF 10% 16V   | C384     | 1-126-960-11 | ELECT                                         | 1uF 20% 50V               |
| C256     | 1-107-725-11 | CERAMIC CHIP                      | 0.1uF 10% 16V   | C385     | 1-126-963-11 | ELECT                                         | 4.7uF 20% 50V             |
| C257     | 1-126-959-11 | ELECT                             | 0.47uF 20% 50V  | C386     | 1-126-934-11 | ELECT                                         | 220uF 20% 16V             |
| C258     | 1-164-345-11 | CERAMIC CHIP                      | 0.082uF 10% 25V | C387     | 1-104-664-11 | ELECT                                         | 47uF 20% 16V              |
| C259     | 1-164-345-11 | CERAMIC CHIP                      | 0.082uF 10% 25V |          |              | < CONNECTOR >                                 |                           |
| C260     | 1-126-964-11 | ELECT                             | 10uF 20% 50V    | * CN304  | 1-580-159-11 | PIN, CONNECTOR (PC BOARD) 7P                  |                           |
| C261     | 1-163-009-11 | CERAMIC CHIP                      | 0.001uF 10% 50V | * CN306  | 1-580-154-11 | PIN, CONNECTOR (PC BOARD) 2P                  |                           |
| C262     | 1-163-125-00 | CERAMIC CHIP                      | 220PF 5% 50V    | * CN307  | 1-580-162-11 | PIN, CONNECTOR (PC BOARD) 10P                 |                           |
| C263     | 1-104-665-11 | ELECT                             | 100uF 20% 10V   | * CN308  | 1-564-506-11 | PLUG, CONNECTOR 3P                            |                           |
| C264     | 1-107-725-11 | CERAMIC CHIP                      | 0.1uF 10% 16V   | * CN310  | 1-770-249-11 | HOUSING, CONNECTOR (PC BOARD)9P (POWER INPUT) |                           |
| C265     | 1-104-665-11 | ELECT                             | 100uF 20% 10V   |          |              | < DIODE >                                     |                           |
| C266     | 1-107-823-11 | CERAMIC CHIP                      | 0.47uF 10% 16V  | D351     | 8-719-988-61 | DIODE 1SS355TE-17                             |                           |
| C351     | 1-126-964-11 | ELECT                             | 10uF 20% 50V    | D352     | 8-719-988-61 | DIODE 1SS355TE-17                             |                           |
| C352     | 1-128-551-11 | ELECT                             | 22uF 20% 25V    | D353     | 8-719-988-61 | DIODE 1SS355TE-17                             |                           |
| C353     | 1-104-665-11 | ELECT                             | 100uF 20% 10V   | D354     | 8-719-988-61 | DIODE 1SS355TE-17                             |                           |
| C354     | 1-163-021-11 | CERAMIC CHIP                      | 0.01uF 10% 50V  | D355     | 8-719-056-85 | DIODE UDZ-TE-17-8.2B                          |                           |
| C355     | 1-126-959-11 | ELECT                             | 0.47uF 20% 50V  |          |              |                                               |                           |
| C357     | 1-163-009-11 | CERAMIC CHIP                      | 0.001uF 10% 50V |          |              |                                               |                           |
| C358     | 1-163-009-11 | CERAMIC CHIP                      | 0.001uF 10% 50V |          |              |                                               |                           |

| Ref. No.       | Part No.     | Description                          | Remark         | Ref. No.     | Part No.     | Description | Remark         |
|----------------|--------------|--------------------------------------|----------------|--------------|--------------|-------------|----------------|
| D356           | 8-719-056-83 | DIODE UDZ-TE-17-6.8B                 |                | Q358         | 8-729-027-46 | TRANSISTOR  | DTC114YKA-T146 |
| D357           | 8-719-056-76 | DIODE UDZ-TE-17-3.6B                 |                | Q359         | 8-729-920-85 | TRANSISTOR  | 2SD1664-QR     |
| D358           | 8-719-988-61 | DIODE 1SS355TE-17                    |                | Q360         | 8-729-920-41 | TRANSISTOR  | FMC3           |
| D360           | 8-719-988-61 | DIODE 1SS355TE-17                    |                | Q361         | 8-729-920-31 | TRANSISTOR  | DTC343TK       |
| D361           | 8-719-988-61 | DIODE 1SS355TE-17                    |                | < RESISTOR > |              |             |                |
| D362           | 8-719-988-61 | DIODE 1SS355TE-17                    |                | R151         | 1-216-121-00 | RES, CHIP   | 1M 5% 1/10W    |
| D363           | 8-719-988-61 | DIODE 1SS355TE-17                    |                | R152         | 1-216-121-00 | RES, CHIP   | 1M 5% 1/10W    |
| D364           | 8-719-988-61 | DIODE 1SS355TE-17                    |                | R153         | 1-216-093-11 | RES, CHIP   | 68K 5% 1/10W   |
| < SHORT >      |              |                                      |                | R154         | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W   |
| FB351          | 1-216-295-00 | SHORT                                | 0 (US, CND)    | R155         | 1-216-055-00 | METAL CHIP  | 1.8K 5% 1/10W  |
| FB351          | 1-414-196-41 | INDUCTOR, CHIP                       | 47uH (AEP, UK) | R156         | 1-216-085-00 | METAL CHIP  | 33K 5% 1/10W   |
| FB352          | 1-216-295-00 | SHORT                                | 0 (US, CND)    | R157         | 1-216-121-00 | RES, CHIP   | 1M 5% 1/10W    |
| FB352          | 1-414-196-41 | INDUCTOR, CHIP                       | 47uH (AEP, UK) | R158         | 1-216-113-00 | METAL CHIP  | 470K 5% 1/10W  |
| FB353          | 1-216-295-00 | SHORT                                | 0              | R159         | 1-216-057-00 | METAL CHIP  | 2.2K 5% 1/10W  |
| < IC >         |              |                                      |                | R160         | 1-216-089-00 | RES, CHIP   | 47K 5% 1/10W   |
| IC351          | 8-759-569-64 | IC BH3863F-E2                        |                | R161         | 1-216-055-00 | METAL CHIP  | 1.8K 5% 1/10W  |
| IC352          | 8-759-636-55 | IC M5218AFP                          |                | R163         | 1-216-049-11 | RES, CHIP   | 1K 5% 1/10W    |
| IC353          | 8-759-702-02 | IC NJM062M                           |                | R164         | 1-216-029-00 | METAL CHIP  | 150 5% 1/10W   |
| IC354          | 8-759-636-55 | IC M5218AFP                          |                | R167         | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W  |
| < JACK >       |              |                                      |                | R168         | 1-216-308-00 | METAL CHIP  | 4.7 5% 1/10W   |
| * J301         | 1-750-178-31 | JACK, PIN 2P (SIGNAL OUTPUT)         |                | R169         | 1-216-013-00 | METAL CHIP  | 33 5% 1/10W    |
| J302           | 1-774-785-11 | JACK, PIN 1P (SIGNAL OUTPUT, WOOFER) |                | R170         | 1-216-057-00 | METAL CHIP  | 2.2K 5% 1/10W  |
| < SHORT >      |              |                                      |                | R251         | 1-216-121-00 | RES, CHIP   | 1M 5% 1/10W    |
| JC351          | 1-216-295-00 | SHORT                                | 0              | R252         | 1-216-121-00 | RES, CHIP   | 1M 5% 1/10W    |
| JC352          | 1-216-295-00 | SHORT                                | 0              | R253         | 1-216-093-11 | RES, CHIP   | 68K 5% 1/10W   |
| JC353          | 1-216-295-00 | SHORT                                | 0              | R254         | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W   |
| JC354          | 1-216-296-00 | SHORT                                | 0              | R255         | 1-216-055-00 | METAL CHIP  | 1.8K 5% 1/10W  |
| JC355          | 1-216-296-00 | SHORT                                | 0              | R256         | 1-216-085-00 | METAL CHIP  | 33K 5% 1/10W   |
| JC356          | 1-216-295-00 | SHORT                                | 0              | R257         | 1-216-121-00 | RES, CHIP   | 1M 5% 1/10W    |
| JC357          | 1-216-295-00 | SHORT                                | 0              | R258         | 1-216-113-00 | METAL CHIP  | 470K 5% 1/10W  |
| JC358          | 1-216-296-00 | SHORT                                | 0              | R259         | 1-216-057-00 | METAL CHIP  | 2.2K 5% 1/10W  |
| JC359          | 1-216-296-00 | SHORT                                | 0              | R260         | 1-216-089-00 | RES, CHIP   | 47K 5% 1/10W   |
| JC362          | 1-216-296-00 | SHORT                                | 0              | R261         | 1-216-055-00 | METAL CHIP  | 1.8K 5% 1/10W  |
| JC363          | 1-216-296-00 | SHORT                                | 0              | R263         | 1-216-049-11 | RES, CHIP   | 1K 5% 1/10W    |
| JC364          | 1-216-296-00 | SHORT                                | 0              | R264         | 1-216-029-00 | METAL CHIP  | 150 5% 1/10W   |
| < IC LINK >    |              |                                      |                | R267         | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W  |
| PS301          | 1-532-637-00 | LINK, IC (AEP, UK)                   |                | R268         | 1-216-308-00 | METAL CHIP  | 4.7 5% 1/10W   |
| < TRANSISTOR > |              |                                      |                | R269         | 1-216-013-00 | METAL CHIP  | 33 5% 1/10W    |
| Q151           | 8-729-920-31 | TRANSISTOR                           | DTC343TK       | R270         | 1-216-057-00 | METAL CHIP  | 2.2K 5% 1/10W  |
| Q152           | 8-729-920-31 | TRANSISTOR                           | DTC343TK       | R351         | 1-216-097-00 | RES, CHIP   | 100K 5% 1/10W  |
| Q154           | 8-729-920-31 | TRANSISTOR                           | DTC343TK       | R352         | 1-216-295-00 | SHORT       | 0              |
| Q251           | 8-729-920-31 | TRANSISTOR                           | DTC343TK       | R353         | 1-216-049-11 | RES, CHIP   | 1K 5% 1/10W    |
| Q252           | 8-729-920-31 | TRANSISTOR                           | DTC343TK       | R354         | 1-216-049-11 | RES, CHIP   | 1K 5% 1/10W    |
| Q254           | 8-729-920-31 | TRANSISTOR                           | DTC343TK       | R355         | 1-216-067-00 | METAL CHIP  | 5.6K 5% 1/10W  |
| Q351           | 8-729-920-41 | TRANSISTOR                           | FMC3           | R356         | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W  |
| Q352           | 8-729-920-31 | TRANSISTOR                           | DTC343TK       | R357         | 1-216-295-00 | SHORT       | 0              |
| Q353           | 8-729-920-41 | TRANSISTOR                           | FMC3           | R358         | 1-216-079-00 | METAL CHIP  | 18K 5% 1/10W   |
| Q354           | 8-729-922-62 | TRANSISTOR                           | 2SD1760F5-TLQ  | R359         | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W  |
| Q355           | 8-729-903-46 | TRANSISTOR                           | 2SB1132-P      | R360         | 1-216-057-00 | METAL CHIP  | 2.2K 5% 1/10W  |
| Q356           | 8-729-027-46 | TRANSISTOR                           | DTC114YKA-T146 | R361         | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W  |
| Q357           | 8-729-021-82 | TRANSISTOR                           | 2SD2396K       | R362         | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W   |
|                |              |                                      |                | R363         | 1-216-295-00 | SHORT       | 0              |
|                |              |                                      |                | R364         | 1-216-057-00 | METAL CHIP  | 2.2K 5% 1/10W  |
|                |              |                                      |                | R365         | 1-216-049-11 | RES, CHIP   | 1K 5% 1/10W    |
|                |              |                                      |                | R366         | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W  |
|                |              |                                      |                | R367         | 1-216-214-00 | RES, CHIP   | 4.7K 5% 1/8W   |

| Ref. No. | Part No.     | Description               | Remark             |
|----------|--------------|---------------------------|--------------------|
| R368     | 1-216-121-00 | RES, CHIP 1M 5%           | 1/10W              |
| R369     | 1-216-057-00 | METAL CHIP 2.2K 5%        | 1/10W              |
| R370     | 1-216-105-00 | RES, CHIP 220K 5%         | 1/10W              |
| R371     | 1-216-037-00 | METAL CHIP 330 5%         | 1/10W              |
| R372     | 1-216-089-00 | RES, CHIP 47K 5%          | 1/10W              |
| R374     | 1-216-033-00 | METAL CHIP 220 5%         | 1/10W              |
| R375     | 1-216-047-00 | RES, CHIP 820 5%          | 1/10W              |
| R376     | 1-216-057-00 | METAL CHIP 2.2K 5%        | 1/10W              |
| R377     | 1-216-051-00 | METAL CHIP 1.2K 5%        | 1/10W<br>(AEP, UK) |
| R377     | 1-216-065-00 | METAL CHIP 4.7K 5%        | 1/10W<br>(US, CND) |
| R378     | 1-216-089-00 | RES, CHIP 47K 5%          | 1/10W              |
| *****    |              |                           |                    |
| *        | A-4699-893-A | BD BOARD, COMPLETE        | *****              |
|          |              | < CAPACITOR >             |                    |
| C101     | 1-125-822-11 | TANTALUM 10uF 20%         | 10V                |
| C102     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C103     | 1-125-822-11 | TANTALUM 10uF 20%         | 10V                |
| C104     | 1-125-822-11 | TANTALUM 10uF 20%         | 10V                |
| C105     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%   | 50V                |
| C106     | 1-163-275-11 | CERAMIC CHIP 0.001uF 5%   | 50V                |
| C107     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C108     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C109     | 1-163-037-11 | CERAMIC CHIP 0.022uF 10%  | 25V                |
| C111     | 1-164-344-11 | CERAMIC CHIP 0.068uF 10%  | 25V                |
| C112     | 1-163-017-00 | CERAMIC CHIP 0.0047uF 5%  | 50V                |
| C113     | 1-109-982-11 | CERAMIC CHIP 1uF 10%      | 10V                |
| C115     | 1-164-489-11 | CERAMIC CHIP 0.22uF 10%   | 16V                |
| C116     | 1-163-037-11 | CERAMIC CHIP 0.022uF 10%  | 25V                |
| C117     | 1-163-809-11 | CERAMIC CHIP 0.047uF 10%  | 25V                |
| C118     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C119     | 1-125-822-11 | TANTALUM 10uF 20%         | 10V                |
| C121     | 1-125-822-11 | TANTALUM 10uF 20%         | 10V                |
| C122     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%   | 50V                |
| C123     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C124     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C127     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C128     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%   | 50V                |
| C129     | 1-107-823-11 | CERAMIC CHIP 0.47uF 10%   | 16V                |
| C130     | 1-163-251-11 | CERAMIC CHIP 100PF 5%     | 50V                |
| C131     | 1-163-023-00 | CERAMIC CHIP 0.015uF 5%   | 50V                |
| C132     | 1-107-823-11 | CERAMIC CHIP 0.47uF 10%   | 16V                |
| C133     | 1-163-017-00 | CERAMIC CHIP 0.0047uF 5%  | 50V                |
| C134     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C135     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C136     | 1-126-206-11 | ELECT CHIP 100uF 20%      | 6.3V               |
| C142     | 1-163-251-11 | CERAMIC CHIP 100PF 5%     | 50V                |
| C143     | 1-163-251-11 | CERAMIC CHIP 100PF 5%     | 50V                |
| C144     | 1-163-251-11 | CERAMIC CHIP 100PF 5%     | 50V                |
| C146     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C151     | 1-126-206-11 | ELECT CHIP 100uF 20%      | 6.3V               |
| C152     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C153     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%   | 50V                |
| C156     | 1-163-038-00 | CERAMIC CHIP 0.1uF        | 25V                |
| C158     | 1-163-019-00 | CERAMIC CHIP 0.0068uF 10% | 50V                |

| Ref. No. | Part No.     | Description                        | Remark |
|----------|--------------|------------------------------------|--------|
| C160     | 1-104-601-11 | ELECT CHIP 10uF 20%                | 10V    |
| C161     | 1-104-601-11 | ELECT CHIP 10uF 20%                | 10V    |
| C163     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%            | 50V    |
| C164     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%            | 50V    |
| C167     | 1-163-038-00 | CERAMIC CHIP 0.1uF                 | 25V    |
| C168     | 1-163-038-00 | CERAMIC CHIP 0.1uF                 | 25V    |
| C169     | 1-125-822-11 | TANTALUM 10uF 20%                  | 10V    |
| C171     | 1-163-038-00 | CERAMIC CHIP 0.1uF                 | 25V    |
| C181     | 1-104-913-11 | TANTALUM CHIP 10uF 20%             | 16V    |
| C183     | 1-163-038-00 | CERAMIC CHIP 0.1uF                 | 25V    |
| C184     | 1-117-970-11 | ELECT CHIP 22uF 20%                | 10V    |
| C185     | 1-164-611-11 | CERAMIC CHIP 0.001uF 10%           | 500V   |
| C187     | 1-104-913-11 | TANTALUM CHIP 10uF 20%             | 16V    |
| C188     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%            | 50V    |
| C189     | 1-163-989-11 | CERAMIC CHIP 0.033uF 10%           | 25V    |
| C190     | 1-126-206-11 | ELECT CHIP 100uF 20%               | 6.3V   |
| C191     | 1-163-038-00 | CERAMIC CHIP 0.1uF                 | 25V    |
| C196     | 1-163-038-00 | CERAMIC CHIP 0.1uF                 | 25V    |
| C197     | 1-163-038-00 | CERAMIC CHIP 0.1uF                 | 25V    |
|          |              | < CONNECTOR >                      |        |
| CN101    | 1-569-479-51 | CONNECTOR, FPC 21P                 |        |
| CN102    | 1-784-833-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 21P |        |
| CN103    | 1-784-834-21 | CONNECTOR, FFC (LIF (NON-ZIF)) 23P |        |
| CN104    | 1-770-687-11 | CONNECTOR, FFC/FPC 4P              |        |
| CN110    | 1-695-440-21 | PIN, CONNECTOR (PC BOARD) 6P       |        |
|          |              | < DIODE >                          |        |
| D101     | 8-719-988-61 | DIODE 1SS355TE-17                  |        |
| D181     | 8-719-046-86 | DIODE F1J6TP                       |        |
| D183     | 8-719-046-86 | DIODE F1J6TP                       |        |
|          |              | < IC/TRANSISTOR >                  |        |
| IC101    | 8-752-080-95 | IC CXA2523AR                       |        |
| IC103    | 8-729-903-10 | TRANSISTOR FMW1-T-148              |        |
| IC121    | 8-752-389-44 | IC CXD2654R                        |        |
| IC123    | 8-759-096-87 | IC TC7WU04FU (TE12R)               |        |
| IC124    | 8-759-334-38 | IC MSM51V4400-70TS-K               |        |
| IC152    | 8-759-430-25 | IC BH6511FS-E2                     |        |
| IC171    | 8-759-487-04 | IC BR24C02F-E2                     |        |
| IC181    | 8-759-481-17 | IC MC74ACT08DTR2                   |        |
| IC192    | 8-759-460-72 | IC BA033FP-E2                      |        |
|          |              | < COIL/SHORT >                     |        |
| L101     | 1-414-813-11 | FERRITE 0uH                        |        |
| L102     | 1-414-813-11 | FERRITE 0uH                        |        |
| L103     | 1-414-813-11 | FERRITE 0uH                        |        |
| L105     | 1-414-813-11 | FERRITE 0uH                        |        |
| L106     | 1-414-813-11 | FERRITE 0uH                        |        |
| L121     | 1-414-813-11 | FERRITE 0uH                        |        |
| L122     | 1-414-813-11 | FERRITE 0uH                        |        |
| L151     | 1-412-029-11 | INDUCTOR CHIP 10uH                 |        |
| L152     | 1-412-029-11 | INDUCTOR CHIP 10uH                 |        |
| L153     | 1-412-032-11 | INDUCTOR CHIP 100uH                |        |
| L154     | 1-412-032-11 | INDUCTOR CHIP 100uH                |        |
| L161     | 1-414-813-11 | FERRITE 0uH                        |        |
| L162     | 1-414-813-11 | FERRITE 0uH                        |        |
| L181     | 1-216-295-00 | SHORT 0                            |        |

| Ref. No.       | Part No.     | Description                 | Remark | Ref. No.                                | Part No.     | Description                     | Remark |
|----------------|--------------|-----------------------------|--------|-----------------------------------------|--------------|---------------------------------|--------|
| < TRANSISTOR > |              |                             |        | R165                                    | 1-216-097-00 | RES, CHIP 100K 5%               | 1/10W  |
| Q101           | 8-729-028-91 | TRANSISTOR RT1P441M-TP-1    |        | R166                                    | 1-216-298-00 | METAL CHIP 2.2 5%               | 1/10W  |
| Q102           | 8-729-026-53 | TRANSISTOR 2SA1576A-T106-QR |        | R167                                    | 1-216-065-00 | RES, CHIP 4.7K 5%               | 1/10W  |
| Q103           | 8-729-028-99 | TRANSISTOR RT1N144M-TP-1    |        | R169                                    | 1-219-724-11 | METAL CHIP 1 1%                 | 1/4W   |
| Q104           | 8-729-028-99 | TRANSISTOR RT1N144M-TP-1    |        | R170                                    | 1-216-073-00 | METAL CHIP 10K 5%               | 1/10W  |
| Q162           | 8-729-101-07 | TRANSISTOR 2SB798-T1DK      |        | R171                                    | 1-216-073-00 | METAL CHIP 10K 5%               | 1/10W  |
| Q163           | 8-729-028-91 | TRANSISTOR RT1P441M-TP-1    |        | R173                                    | 1-216-121-00 | RES, CHIP 1M 5%                 | 1/10W  |
| Q181           | 8-729-018-75 | FET 2SJ278MYTR              |        | R175                                    | 1-216-065-00 | RES, CHIP 4.7K 5%               | 1/10W  |
| Q182           | 8-729-017-65 | FET 2SK1764KYTR             |        | R177                                    | 1-216-061-00 | METAL CHIP 3.3K 5%              | 1/10W  |
| < RESISTOR >   |              |                             |        | R179                                    | 1-216-085-00 | METAL CHIP 33K 5%               | 1/10W  |
| R103           | 1-216-049-11 | RES, CHIP 1K 5%             | 1/10W  | R180                                    | 1-216-073-00 | METAL CHIP 10K 5%               | 1/10W  |
| R104           | 1-216-073-00 | METAL CHIP 10K 5%           | 1/10W  | R182                                    | 1-216-089-00 | RES, CHIP 47K 5%                | 1/10W  |
| R105           | 1-216-065-00 | RES, CHIP 4.7K 5%           | 1/10W  | R183                                    | 1-216-089-00 | RES, CHIP 47K 5%                | 1/10W  |
| R106           | 1-216-133-00 | METAL CHIP 3.3M 5%          | 1/10W  | R184                                    | 1-216-073-00 | METAL CHIP 10K 5%               | 1/10W  |
| R107           | 1-216-113-00 | METAL CHIP 470K 5%          | 1/10W  | R185                                    | 1-216-081-00 | METAL CHIP 22K 5%               | 1/10W  |
| R109           | 1-216-295-00 | SHORT 0                     |        | R186                                    | 1-216-089-00 | RES, CHIP 47K 5%                | 1/10W  |
| R110           | 1-216-073-00 | METAL CHIP 10K 5%           | 1/10W  | R188                                    | 1-216-073-00 | METAL CHIP 10K 5%               | 1/10W  |
| R111           | 1-216-295-00 | SHORT 0                     |        | R189                                    | 1-216-073-00 | METAL CHIP 10K 5%               | 1/10W  |
| R112           | 1-216-089-00 | RES, CHIP 47K 5%            | 1/10W  | R190                                    | 1-216-073-00 | METAL CHIP 10K 5%               | 1/10W  |
| R113           | 1-216-049-11 | RES, CHIP 1K 5%             | 1/10W  | R195                                    | 1-216-073-00 | METAL CHIP 10K 5%               | 1/10W  |
| R115           | 1-216-049-11 | RES, CHIP 1K 5%             | 1/10W  | R196                                    | 1-216-295-00 | SHORT 0                         |        |
| R117           | 1-216-113-00 | METAL CHIP 470K 5%          | 1/10W  | R197                                    | 1-216-295-00 | SHORT 0                         |        |
| R120           | 1-216-025-00 | RES, CHIP 100 5%            | 1/10W  | R198                                    | 1-216-296-00 | SHORT 0                         |        |
| R121           | 1-216-097-00 | RES, CHIP 100K 5%           | 1/10W  | < SWITCH >                              |              |                                 |        |
| R123           | 1-216-295-00 | SHORT 0                     |        | S101                                    | 1-762-596-21 | SWITCH, PUSH (1 KEY) (LIMIT IN) |        |
| R124           | 1-216-025-00 | RES, CHIP 100 5%            | 1/10W  | S102                                    | 1-762-148-21 | SWITCH, PUSH (2 KEY)            |        |
| R125           | 1-216-025-00 | RES, CHIP 100 5%            | 1/10W  | (REFLECT RATE/PROTECT DETECT)           |              |                                 |        |
| R127           | 1-216-025-00 | RES, CHIP 100 5%            | 1/10W  | *****                                   |              |                                 |        |
| R129           | 1-216-295-00 | SHORT 0                     |        | * A-3321-991-A CD MOTOR BOARD, COMPLETE |              |                                 |        |
| R130           | 1-216-295-00 | SHORT 0                     |        | *****                                   |              |                                 |        |
| R131           | 1-216-073-00 | METAL CHIP 10K 5%           | 1/10W  | < CAPACITOR >                           |              |                                 |        |
| R132           | 1-216-097-00 | RES, CHIP 100K 5%           | 1/10W  | C1001                                   | 1-126-934-11 | ELECT 220uF 20%                 | 16V    |
| R133           | 1-216-117-00 | METAL CHIP 680K 5%          | 1/10W  | C1002                                   | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%         | 50V    |
| R134           | 1-216-049-11 | RES, CHIP 1K 5%             | 1/10W  | C1003                                   | 1-164-161-11 | CERAMIC CHIP 0.0022uF 10%       | 100V   |
| R135           | 1-216-061-00 | METAL CHIP 3.3K 5%          | 1/10W  | C1004                                   | 1-163-038-00 | CERAMIC CHIP 0.1uF              | 25V    |
| R136           | 1-216-049-11 | RES, CHIP 1K 5%             | 1/10W  | < CONNECTOR >                           |              |                                 |        |
| R137           | 1-216-295-00 | SHORT 0                     |        | CN1001                                  | 1-563-614-31 | HOUSING, CONNECTOR 11P          |        |
| R140           | 1-216-029-00 | METAL CHIP 150 5%           | 1/10W  | < IC >                                  |              |                                 |        |
| R142           | 1-216-073-00 | METAL CHIP 10K 5%           | 1/10W  | IC1001                                  | 8-759-591-65 | IC BA6892FP-E2                  |        |
| R143           | 1-216-073-00 | METAL CHIP 10K 5%           | 1/10W  | IC1002                                  | 8-759-344-00 | IC NJM2100E (TE2)               |        |
| R144           | 1-216-025-00 | RES, CHIP 100 5%            | 1/10W  | < TRANSISTOR >                          |              |                                 |        |
| R145           | 1-216-073-00 | METAL CHIP 10K 5%           | 1/10W  | Q1001                                   | 8-729-900-53 | TRANSISTOR DTC114EK             |        |
| R146           | 1-216-037-00 | METAL CHIP 330 5%           | 1/10W  | Q1002                                   | 8-729-027-60 | TRANSISTOR DTC144TKA-T146       |        |
| R147           | 1-216-025-00 | RES, CHIP 100 5%            | 1/10W  | Q1003                                   | 8-729-027-56 | TRANSISTOR DTC143TKA-T146       |        |
| R148           | 1-216-045-00 | METAL CHIP 680 5%           | 1/10W  | Q1004                                   | 8-729-027-60 | TRANSISTOR DTC144TKA-T146       |        |
| R149           | 1-216-073-00 | METAL CHIP 10K 5%           | 1/10W  | Q1005                                   | 8-729-027-56 | TRANSISTOR DTC143TKA-T146       |        |
| R150           | 1-216-295-00 | SHORT 0                     |        | Q1006                                   | 8-729-903-46 | TRANSISTOR 2SB1132-P            |        |
| R151           | 1-216-073-00 | METAL CHIP 10K 5%           | 1/10W  | Q1007                                   | 8-729-027-46 | TRANSISTOR DTC114YKA-T146       |        |
| R152           | 1-216-073-00 | METAL CHIP 10K 5%           | 1/10W  | < RESISTOR >                            |              |                                 |        |
| R158           | 1-216-097-00 | RES, CHIP 100K 5%           | 1/10W  | R1001                                   | 1-216-065-00 | RES, CHIP 4.7K 5%               | 1/10W  |
| R159           | 1-216-097-00 | RES, CHIP 100K 5%           | 1/10W  | R1002                                   | 1-216-073-00 | METAL CHIP 10K 5%               | 1/10W  |
| R160           | 1-216-295-00 | SHORT 0                     |        |                                         |              |                                 |        |
| R161           | 1-216-057-00 | METAL CHIP 2.2K 5%          | 1/10W  |                                         |              |                                 |        |
| R162           | 1-216-057-00 | METAL CHIP 2.2K 5%          | 1/10W  |                                         |              |                                 |        |
| R163           | 1-216-057-00 | METAL CHIP 2.2K 5%          | 1/10W  |                                         |              |                                 |        |
| R164           | 1-216-045-00 | METAL CHIP 680 5%           | 1/10W  |                                         |              |                                 |        |

|                 |               |           |
|-----------------|---------------|-----------|
| <b>CD MOTOR</b> | <b>CD O/C</b> | <b>DG</b> |
|-----------------|---------------|-----------|

| Ref. No.       | Part No.     | Description                      | Remark |
|----------------|--------------|----------------------------------|--------|
| R1003          | 1-216-073-00 | METAL CHIP 10K 5%                | 1/10W  |
| R1004          | 1-216-081-00 | METAL CHIP 22K 5%                | 1/10W  |
| R1005          | 1-216-099-00 | METAL CHIP 120K 5%               | 1/10W  |
| R1006          | 1-216-085-00 | METAL CHIP 33K 5%                | 1/10W  |
| R1007          | 1-216-081-00 | METAL CHIP 22K 5%                | 1/10W  |
| R1010          | 1-216-089-00 | RES, CHIP 47K 5%                 | 1/10W  |
| R1011          | 1-216-097-00 | RES, CHIP 100K 5%                | 1/10W  |
| R1012          | 1-216-089-00 | RES, CHIP 47K 5%                 | 1/10W  |
| R1013          | 1-216-198-00 | RES, CHIP 1K 5%                  | 1/8W   |
| < SWITCH >     |              |                                  |        |
| S1001          | 1-762-812-11 | SWITCH, LEAF (LIMIT)             |        |
| *****          |              |                                  |        |
| *              | A-3321-992-A | CD O/C BOARD, COMPLETE (US, CND) |        |
| *              | A-3322-149-A | CD O/C BOARD, COMPLETE (AEP, UK) |        |
| *****          |              |                                  |        |
| < CAPACITOR >  |              |                                  |        |
| C789           | 1-107-725-11 | CERAMIC CHIP 0.1uF 10%           | 16V    |
| C795           | 1-126-925-11 | ELECT 470uF 20%                  | 10V    |
| C796           | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%          | 50V    |
| C797           | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%          | 50V    |
| < CONNECTOR >  |              |                                  |        |
| * CN711        | 1-580-159-11 | PIN, CONNECTOR (PC BOARD) 7P     |        |
| * CN712        | 1-580-163-11 | PIN, CONNECTOR (PC BOARD) 2P     |        |
| < DIODE >      |              |                                  |        |
| D761           | 8-719-988-61 | DIODE 1SS355TE-17                |        |
| D762           | 8-719-988-61 | DIODE 1SS355TE-17                |        |
| < IC >         |              |                                  |        |
| IC711          | 8-759-565-65 | IC BA6289F-E2                    |        |
| < SHORT >      |              |                                  |        |
| JC791          | 1-216-296-00 | SHORT 0 (US, CND)                |        |
| JC792          | 1-216-296-00 | SHORT 0 (US, CND)                |        |
| JC793          | 1-216-296-00 | SHORT 0 (US, CND)                |        |
| < TRANSISTOR > |              |                                  |        |
| Q762           | 8-729-027-26 | TRANSISTOR DTA114YKA-T146        |        |
| Q763           | 8-729-027-46 | TRANSISTOR DTC114YKA-T146        |        |
| Q764           | 8-729-903-46 | TRANSISTOR 2SB1132-P             |        |
| Q765           | 8-729-027-46 | TRANSISTOR DTC114YKA-T146        |        |
| Q766           | 8-729-027-46 | TRANSISTOR DTC114YKA-T146        |        |
| < RESISTOR >   |              |                                  |        |
| R728           | 1-216-071-00 | METAL CHIP 8.2K 5%               | 1/10W  |
| R736           | 1-216-089-00 | RES, CHIP 47K 5%                 | 1/10W  |
| R737           | 1-216-089-00 | RES, CHIP 47K 5%                 | 1/10W  |
| R738           | 1-216-295-00 | SHORT 0                          |        |
| R744           | 1-216-081-00 | METAL CHIP 22K 5%                | 1/10W  |
| R746           | 1-216-073-00 | METAL CHIP 10K 5%                | 1/10W  |
| R747           | 1-216-081-00 | METAL CHIP 22K 5%                | 1/10W  |
| R748           | 1-216-079-00 | METAL CHIP 18K 5%                | 1/10W  |
| R749           | 1-216-079-00 | METAL CHIP 18K 5%                | 1/10W  |

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

| Ref. No.      | Part No.     | Description                  | Remark                |
|---------------|--------------|------------------------------|-----------------------|
| R759          | 1-216-089-00 | RES, CHIP 47K 5%             | 1/10W                 |
| $\Delta$ R761 | 1-212-954-11 | FUSIBLE 6.8 5%               | 1/2W F                |
| R779          | 1-216-041-00 | METAL CHIP 470 5%            | 1/10W                 |
| < SWITCH >    |              |                              |                       |
| S761          | 1-572-126-21 | SWITCH, PUSH (1 KEY)         | (CD LID OPEN DETECT)  |
| S762          | 1-572-126-21 | SWITCH, PUSH (1 KEY)         | (CD LID CLOSE DETECT) |
| *****         |              |                              |                       |
| *             | A-3323-211-A | DG BOARD, COMPLETE (US, CND) |                       |
| *             | A-3323-402-A | DG BOARD, COMPLETE (AEP, UK) |                       |
| *****         |              |                              |                       |
| < CAPACITOR > |              |                              |                       |
| C601          | 1-162-919-11 | CERAMIC CHIP 22PF 5%         | 50V                   |
| C602          | 1-162-919-11 | CERAMIC CHIP 22PF 5%         | 50V                   |
| C604          | 1-163-235-11 | CERAMIC CHIP 22PF 5%         | 50V                   |
| C605          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C606          | 1-162-927-11 | CERAMIC CHIP 100PF 5%        | 50V                   |
| C607          | 1-162-927-11 | CERAMIC CHIP 100PF 5%        | 50V                   |
| C608          | 1-162-916-11 | CERAMIC CHIP 12PF 5%         | 50V                   |
| C609          | 1-162-916-11 | CERAMIC CHIP 12PF 5%         | 50V                   |
| C610          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C611          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C612          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C613          | 1-163-251-11 | CERAMIC CHIP 100PF 5%        | 50V                   |
| C614          | 1-162-927-11 | CERAMIC CHIP 100PF 5%        | 50V                   |
| C615          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C616          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C617          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C619          | 1-126-207-11 | ELECT CHIP 33uF 20%          | 4V                    |
| C620          | 1-107-823-11 | CERAMIC CHIP 0.47uF 10%      | 16V                   |
| C621          | 1-107-826-11 | CERAMIC CHIP 0.1uF 10%       | 16V                   |
| C622          | 1-107-725-11 | CERAMIC CHIP 0.1uF 10%       | 16V                   |
| C626          | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%      | 50V                   |
| C627          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C628          | 1-126-205-11 | ELECT CHIP 47uF 20%          | 6.3V                  |
| C629          | 1-126-205-11 | ELECT CHIP 47uF 20%          | 6.3V                  |
| C632          | 1-126-603-11 | ELECT CHIP 4.7uF 20%         | 35V                   |
| C633          | 1-126-603-11 | ELECT CHIP 4.7uF 20%         | 35V                   |
| C634          | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%      | 25V                   |
| C635          | 1-126-205-11 | ELECT CHIP 47uF 20%          | 6.3V                  |
| C637          | 1-126-603-11 | ELECT CHIP 4.7uF 20%         | 35V                   |
| C639          | 1-124-779-00 | ELECT CHIP 10uF 20%          | 16V                   |
| C640          | 1-126-603-11 | ELECT CHIP 4.7uF 20%         | 35V                   |
| C641          | 1-109-982-11 | CERAMIC CHIP 1uF 10%         | 10V (AEP, UK)         |
| C641          | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%      | 50V (US, CND)         |
| C642          | 1-126-205-11 | ELECT CHIP 47uF 20%          | 6.3V                  |
| C644          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C645          | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V                   |
| C646          | 1-162-919-11 | CERAMIC CHIP 22PF 5%         | 50V                   |
| C650          | 1-162-966-11 | CERAMIC CHIP 0.0022uF 10%    | 50V                   |
| C651          | 1-162-966-11 | CERAMIC CHIP 0.0022uF 10%    | 50V                   |
| C655          | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%      | 25V                   |

| Ref. No. | Part No.     | Description                  | Remark          | Ref. No. | Part No.     | Description             | Remark       |
|----------|--------------|------------------------------|-----------------|----------|--------------|-------------------------|--------------|
| C657     | 1-162-970-11 | CERAMIC CHIP                 | 0.01uF 10% 25V  | FB611    | 1-500-445-21 | FERRITE                 | 0uH          |
| C659     | 1-163-021-11 | CERAMIC CHIP                 | 0.01uF 10% 50V  | FB612    | 1-469-185-11 | FERRITE                 | 0uH          |
| C660     | 1-126-205-11 | ELECT CHIP                   | 47uF 20% 6.3V   | FB613    | 1-500-445-21 | FERRITE                 | 0uH          |
| C662     | 1-163-038-00 | CERAMIC CHIP                 | 0.1uF 25V       | FB614    | 1-500-445-21 | FERRITE                 | 0uH          |
| C663     | 1-162-915-11 | CERAMIC CHIP                 | 10PF 0.5PF 50V  | FB615    | 1-500-445-21 | FERRITE                 | 0uH          |
| C664     | 1-126-206-11 | ELECT CHIP                   | 100uF 20% 6.3V  | FB616    | 1-500-445-21 | FERRITE                 | 0uH          |
| C665     | 1-126-206-11 | ELECT CHIP                   | 100uF 20% 6.3V  | FB617    | 1-500-445-21 | FERRITE                 | 0uH          |
| C668     | 1-164-156-11 | CERAMIC CHIP                 | 0.1uF 25V       | FB618    | 1-500-445-21 | FERRITE                 | 0uH          |
| C669     | 1-164-360-11 | CERAMIC CHIP                 | 0.1uF 16V       | FB619    | 1-500-445-21 | FERRITE                 | 0uH          |
| C670     | 1-126-205-11 | ELECT CHIP                   | 47uF 20% 6.3V   | FB620    | 1-500-445-21 | FERRITE                 | 0uH          |
| C672     | 1-162-970-11 | CERAMIC CHIP                 | 0.01uF 10% 25V  | FB621    | 1-500-445-21 | FERRITE                 | 0uH          |
| C673     | 1-162-912-11 | CERAMIC CHIP                 | 7PF 0.5PF 50V   | FB622    | 1-500-445-21 | FERRITE                 | 0uH          |
| C675     | 1-162-927-11 | CERAMIC CHIP                 | 100PF 5% 50V    | FB623    | 1-500-445-21 | FERRITE                 | 0uH          |
| C676     | 1-162-927-11 | CERAMIC CHIP                 | 100PF 5% 50V    | FB624    | 1-500-445-21 | FERRITE                 | 0uH          |
| C680     | 1-163-224-11 | CERAMIC CHIP                 | 7PF 0.25PF 50V  | FB625    | 1-500-445-21 | FERRITE                 | 0uH          |
| C681     | 1-164-156-11 | CERAMIC CHIP                 | 0.1uF 25V       | FB626    | 1-500-445-21 | FERRITE                 | 0uH          |
| C682     | 1-163-038-00 | CERAMIC CHIP                 | 0.1uF 25V       | FB627    | 1-216-295-00 | SHORT                   | 0            |
| C683     | 1-162-964-11 | CERAMIC CHIP                 | 0.001uF 10% 50V | FB628    | 1-500-445-21 | FERRITE                 | 0uH          |
| C684     | 1-162-964-11 | CERAMIC CHIP                 | 0.001uF 10% 50V | FB629    | 1-500-445-21 | FERRITE                 | 0uH          |
| C685     | 1-162-927-11 | CERAMIC CHIP                 | 100PF 5% 50V    | FB630    | 1-469-125-21 | FERRITE                 | 0uH          |
| C686     | 1-162-927-11 | CERAMIC CHIP                 | 100PF 5% 50V    | FB631    | 1-500-445-21 | FERRITE                 | 0uH          |
| C687     | 1-163-038-00 | CERAMIC CHIP                 | 0.1uF 25V       | FB632    | 1-500-445-21 | FERRITE                 | 0uH          |
| C689     | 1-164-156-11 | CERAMIC CHIP                 | 0.1uF 25V       | FB633    | 1-469-185-11 | FERRITE                 | 0uH          |
| C690     | 1-163-125-00 | CERAMIC CHIP                 | 220PF 5% 50V    | FB634    | 1-469-185-11 | FERRITE                 | 0uH          |
| C691     | 1-162-964-11 | CERAMIC CHIP                 | 0.001uF 10% 50V | FB636    | 1-500-445-21 | FERRITE                 | 0uH          |
| C692     | 1-162-964-11 | CERAMIC CHIP                 | 0.001uF 10% 50V | FB637    | 1-500-445-21 | FERRITE                 | 0uH          |
| C693     | 1-162-964-11 | CERAMIC CHIP                 | 0.001uF 10% 50V | FB638    | 1-500-445-21 | FERRITE                 | 0uH          |
| C694     | 1-162-964-11 | CERAMIC CHIP                 | 0.001uF 10% 50V | FB639    | 1-500-445-21 | FERRITE                 | 0uH          |
| C695     | 1-162-964-11 | CERAMIC CHIP                 | 0.001uF 10% 50V | FB640    | 1-500-445-21 | FERRITE                 | 0uH          |
| C696     | 1-163-021-11 | CERAMIC CHIP                 | 0.01uF 10% 50V  | FB641    | 1-500-445-21 | FERRITE                 | 0uH          |
| C697     | 1-162-970-11 | CERAMIC CHIP                 | 0.01uF 10% 25V  | FB642    | 1-500-445-21 | FERRITE                 | 0uH          |
| C698     | 1-125-837-11 | CERAMIC CHIP                 | 1uF 10% 10V     | FB643    | 1-500-445-21 | FERRITE                 | 0uH          |
| C699     | 1-162-970-11 | CERAMIC CHIP                 | 0.01uF 10% 25V  | FB644    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              | (AEP, UK)       | FB645    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB646    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              | < CONNECTOR >                |                 | FB647    | 1-500-445-21 | FERRITE                 | 0uH          |
| * CN601  | 1-793-115-21 | CONNECTOR, FFC/FPC 21P       |                 | FB648    | 1-216-295-00 | SHORT                   | 0            |
| * CN602  | 1-793-116-21 | CONNECTOR, FFC/FPC 23P       |                 | FB649    | 1-500-445-21 | FERRITE                 | 0uH          |
| * CN603  | 1-580-055-21 | PIN, CONNECTOR (SMD) 2P      |                 | FB650    | 1-216-821-11 | METAL CHIP              | 1K 5% 1/16W  |
| CN604    | 1-785-370-11 | CONNECTOR, FFC/FPC 26P       |                 | FB651    | 1-216-821-11 | METAL CHIP              | 1K 5% 1/16W  |
| CN605    | 1-784-687-41 | PIN, CONNECTOR (PC BOARD) 7P |                 | FB652    | 1-216-295-00 | SHORT                   | 0            |
|          |              |                              |                 | FB654    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB655    | 1-469-185-11 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB656    | 1-469-185-11 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB657    | 1-469-185-11 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB660    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB661    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB662    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB663    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB664    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB665    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB666    | 1-216-815-11 | METAL CHIP              | 330 5% 1/16W |
|          |              |                              |                 | FB671    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB672    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 | FB673    | 1-500-445-21 | FERRITE                 | 0uH          |
|          |              |                              |                 |          |              | < FILTER/FERRITE BEAD > |              |
|          |              |                              |                 | FL601    | 1-239-901-21 | FERRITE                 | 0uH          |

| Ref. No.                  | Part No.     | Description              | Remark |
|---------------------------|--------------|--------------------------|--------|
| FL602                     | 1-239-901-21 | FERRITE 0uH              |        |
| FL603                     | 1-239-899-21 | FILTER, CHIP EMI         |        |
| FL604                     | 1-239-899-21 | FILTER, CHIP EMI         |        |
| FL605                     | 1-239-899-21 | FILTER, CHIP EMI         |        |
| FL606                     | 1-239-899-21 | FILTER, CHIP EMI         |        |
| * FL607                   | 1-125-971-21 | FILTER, 3 TERMINAL NOISE |        |
| * FL608                   | 1-125-971-21 | FILTER, 3 TERMINAL NOISE |        |
| * FL611                   | 1-125-971-21 | FILTER, 3 TERMINAL NOISE |        |
| * FL612                   | 1-125-971-21 | FILTER, 3 TERMINAL NOISE |        |
| * FL619                   | 1-125-971-21 | FILTER, 3 TERMINAL NOISE |        |
| * FL620                   | 1-125-971-21 | FILTER, 3 TERMINAL NOISE |        |
| < IC >                    |              |                          |        |
| IC601                     | 8-759-599-72 | IC RU8X12MF-0031         |        |
| IC602                     | 8-759-040-83 | IC BA6287F               |        |
| IC603                     | 8-759-561-36 | IC PCM3003E/T2           |        |
| IC604                     | 8-759-243-19 | IC TC7SU04F              |        |
| IC605                     | 8-759-591-61 | IC TC7WHU04FU            |        |
| IC606                     | 8-759-447-77 | IC TC7WH74FU (TR12R)     |        |
| < RESISTOR/FERRITE BEAD > |              |                          |        |
| JC601                     | 1-216-049-11 | RES, CHIP 1K 5% 1/10W    |        |
| JC602                     | 1-216-295-00 | SHORT 0                  |        |
| JC603                     | 1-216-049-11 | RES, CHIP 1K 5% 1/10W    |        |
| JC605                     | 1-216-295-00 | SHORT 0                  |        |
| JC606                     | 1-216-296-00 | SHORT 0                  |        |
| JC607                     | 1-216-295-00 | SHORT 0                  |        |
| JC608                     | 1-216-295-00 | SHORT 0                  |        |
| JC609                     | 1-216-821-11 | METAL CHIP 1K 5% 1/16W   |        |
| JC610                     | 1-216-821-11 | METAL CHIP 1K 5% 1/16W   |        |
| JC611                     | 1-216-821-11 | METAL CHIP 1K 5% 1/16W   |        |
| JC612                     | 1-216-821-11 | METAL CHIP 1K 5% 1/16W   |        |
| JC613                     | 1-216-295-00 | SHORT 0                  |        |
| JC614                     | 1-216-049-11 | RES, CHIP 1K 5% 1/10W    |        |
| JC615                     | 1-216-295-00 | SHORT 0                  |        |
| JC616                     | 1-216-295-00 | SHORT 0                  |        |
| JC617                     | 1-216-295-00 | SHORT 0                  |        |
| JC618                     | 1-216-295-00 | SHORT 0                  |        |
| JC619                     | 1-216-295-00 | SHORT 0                  |        |
| JC620                     | 1-216-295-00 | SHORT 0                  |        |
| JC621                     | 1-216-864-11 | METAL CHIP 0 5% 1/16W    |        |
| JC622                     | 1-216-296-00 | SHORT 0                  |        |
| JC623                     | 1-216-295-00 | SHORT 0                  |        |
| JC626                     | 1-216-295-00 | SHORT 0                  |        |
| JC627                     | 1-216-295-00 | SHORT 0                  |        |
| JC631                     | 1-216-864-11 | METAL CHIP 0 5% 1/16W    |        |
| JC632                     | 1-216-295-00 | SHORT 0                  |        |
| JC634                     | 1-216-295-00 | SHORT 0                  |        |
| JC635                     | 1-216-295-00 | SHORT 0                  |        |
| JC639                     | 1-500-445-21 | FERRITE 0uH              |        |
| JC641                     | 1-216-295-00 | SHORT 0                  |        |
| JC651                     | 1-216-295-00 | SHORT 0                  |        |
| JC652                     | 1-500-445-21 | FERRITE 0uH              |        |
| < COIL >                  |              |                          |        |
| L601                      | 1-414-521-21 | INDUCTOR CHIP 10uH       |        |
| L602                      | 1-414-398-11 | INDUCTOR 10uH            |        |

| Ref. No.          | Part No.     | Description               | Remark |
|-------------------|--------------|---------------------------|--------|
| L603              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L604              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L605              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L606              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L607              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L608              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L609              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L610              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L611              | 1-416-107-21 | INDUCTOR 0uH              |        |
| L612              | 1-414-521-21 | INDUCTOR CHIP 10uH        |        |
| L613              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L614              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L615              | 1-500-445-21 | FERRITE 0uH               |        |
| L616              | 1-500-445-21 | FERRITE 0uH               |        |
| L617              | 1-414-766-21 | INDUCTOR CHIP 0uH         |        |
| L618              | 1-500-445-21 | FERRITE 0uH               |        |
| L619              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L620              | 1-414-398-11 | INDUCTOR 10uH             |        |
| L621              | 1-414-521-21 | INDUCTOR CHIP 10uH        |        |
| L622              | 1-414-521-21 | INDUCTOR CHIP 10uH        |        |
| < TRANSISTOR >    |              |                           |        |
| Q603              | 8-729-402-84 | TRANSISTOR XN4601         |        |
| Q604              | 8-729-402-84 | TRANSISTOR XN4601         |        |
| Q610              | 8-729-027-46 | TRANSISTOR DTC114YKA-T146 |        |
| Q611              | 8-729-031-43 | TRANSISTOR IMD9A-T108     |        |
| Q612              | 8-729-101-07 | TRANSISTOR 2SB798-DL      |        |
| Q616              | 8-729-027-46 | TRANSISTOR DTC114YKA-T146 |        |
| Q617              | 8-729-019-72 | TRANSISTOR 2SB1260        |        |
| Q620              | 8-729-046-16 | TRANSISTOR UMG5N-TR       |        |
| < RESISTOR/COIL > |              |                           |        |
| R601              | 1-216-821-11 | METAL CHIP 1K 5% 1/16W    |        |
| R602              | 1-216-049-11 | RES, CHIP 1K 5% 1/10W     |        |
| R603              | 1-216-821-11 | METAL CHIP 1K 5% 1/16W    |        |
| R604              | 1-500-329-11 | INDUCTOR CHIP 0uH         |        |
| R605              | 1-216-073-00 | METAL CHIP 10K 5% 1/10W   |        |
| R606              | 1-216-073-00 | METAL CHIP 10K 5% 1/10W   |        |
| R607              | 1-216-073-00 | METAL CHIP 10K 5% 1/10W   |        |
| R608              | 1-216-833-11 | RES, CHIP 10K 5% 1/16W    |        |
| R609              | 1-216-097-00 | RES, CHIP 100K 5% 1/10W   |        |
| R610              | 1-216-097-00 | RES, CHIP 100K 5% 1/10W   |        |
| R611              | 1-216-845-11 | METAL CHIP 100K 5% 1/16W  |        |
| R612              | 1-216-097-00 | RES, CHIP 100K 5% 1/10W   |        |
| R613              | 1-216-833-11 | RES, CHIP 10K 5% 1/16W    |        |
| R614              | 1-216-857-11 | METAL CHIP 1M 5% 1/16W    |        |
| R615              | 1-216-833-11 | RES, CHIP 10K 5% 1/16W    |        |
| R616              | 1-216-845-11 | METAL CHIP 100K 5% 1/16W  |        |
| R617              | 1-216-809-11 | METAL CHIP 100 5% 1/16W   |        |
| R618              | 1-216-809-11 | METAL CHIP 100 5% 1/16W   |        |
| R619              | 1-216-845-11 | METAL CHIP 100K 5% 1/16W  |        |
| R620              | 1-216-851-11 | METAL CHIP 330K 5% 1/16W  |        |
| R621              | 1-216-073-00 | METAL CHIP 10K 5% 1/10W   |        |
| R622              | 1-216-833-11 | RES, CHIP 10K 5% 1/16W    |        |
| R623              | 1-216-833-11 | RES, CHIP 10K 5% 1/16W    |        |
| R624              | 1-216-833-11 | RES, CHIP 10K 5% 1/16W    |        |
| R625              | 1-216-833-11 | RES, CHIP 10K 5% 1/16W    |        |

| Ref. No.     | Part No.     | Description                    | Quantity | Percentage | Remark |
|--------------|--------------|--------------------------------|----------|------------|--------|
| R626         | 1-216-073-00 | METAL CHIP                     | 10K      | 5%         | 1/10W  |
| R627         | 1-216-089-00 | RES, CHIP                      | 47K      | 5%         | 1/10W  |
| R628         | 1-216-841-11 | METAL CHIP                     | 47K      | 5%         | 1/16W  |
| R629         | 1-216-833-11 | RES, CHIP                      | 10K      | 5%         | 1/16W  |
| R630         | 1-216-833-11 | RES, CHIP                      | 10K      | 5%         | 1/16W  |
| R631         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| R632         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| R633         | 1-216-833-11 | RES, CHIP                      | 10K      | 5%         | 1/16W  |
| R634         | 1-216-833-11 | RES, CHIP                      | 10K      | 5%         | 1/16W  |
| R636         | 1-216-851-11 | METAL CHIP                     | 330K     | 5%         | 1/16W  |
| R637         | 1-216-109-00 | METAL CHIP                     | 330K     | 5%         | 1/10W  |
| R638         | 1-216-841-11 | METAL CHIP                     | 47K      | 5%         | 1/16W  |
| R639         | 1-216-847-11 | METAL CHIP                     | 150K     | 5%         | 1/16W  |
| R640         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| R641         | 1-216-843-11 | METAL CHIP                     | 68K      | 5%         | 1/16W  |
| R643         | 1-216-809-11 | METAL CHIP                     | 100      | 5%         | 1/16W  |
| R644         | 1-216-833-11 | RES, CHIP                      | 10K      | 5%         | 1/16W  |
| R646         | 1-216-041-00 | METAL CHIP                     | 470      | 5%         | 1/10W  |
| R647         | 1-216-089-00 | RES, CHIP                      | 47K      | 5%         | 1/10W  |
| R648         | 1-216-833-11 | RES, CHIP                      | 10K      | 5%         | 1/16W  |
| R649         | 1-216-835-11 | METAL CHIP                     | 15K      | 5%         | 1/16W  |
| R650         | 1-216-833-11 | RES, CHIP                      | 10K      | 5%         | 1/16W  |
| R651         | 1-216-835-11 | METAL CHIP                     | 15K      | 5%         | 1/16W  |
| R652         | 1-500-329-11 | INDUCTOR CHIP                  | 0uH      |            |        |
| R653         | 1-216-073-00 | METAL CHIP                     | 10K      | 5%         | 1/10W  |
| R654         | 1-216-833-11 | RES, CHIP                      | 10K      | 5%         | 1/16W  |
| R655         | 1-216-073-00 | METAL CHIP                     | 10K      | 5%         | 1/10W  |
| R656         | 1-216-833-11 | RES, CHIP                      | 10K      | 5%         | 1/16W  |
| R657         | 1-216-238-91 | RES, CHIP                      | 47K      | 5%         | 1/8W   |
| R658         | 1-216-853-11 | METAL CHIP                     | 470K     | 5%         | 1/16W  |
| R659         | 1-216-817-11 | METAL CHIP                     | 470      | 5%         | 1/16W  |
| R660         | 1-216-841-11 | METAL CHIP                     | 47K      | 5%         | 1/16W  |
| R661         | 1-216-857-11 | METAL CHIP                     | 1M       | 5%         | 1/16W  |
| R662         | 1-216-037-00 | METAL CHIP                     | 330      | 5%         | 1/10W  |
| R663         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| R664         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| R665         | 1-216-073-00 | METAL CHIP                     | 10K      | 5%         | 1/10W  |
| R666         | 1-500-329-11 | INDUCTOR CHIP                  | 0uH      |            |        |
| R667         | 1-500-329-11 | INDUCTOR CHIP                  | 0uH      |            |        |
| R668         | 1-216-815-11 | METAL CHIP                     | 330      | 5%         | 1/16W  |
| R669         | 1-216-857-11 | METAL CHIP                     | 1M       | 5%         | 1/16W  |
| R670         | 1-216-841-11 | METAL CHIP                     | 47K      | 5%         | 1/16W  |
| R671         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| R672         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| R674         | 1-216-857-11 | METAL CHIP                     | 1M       | 5%         | 1/16W  |
| R691         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| R692         | 1-216-025-00 | RES, CHIP                      | 100      | 5%         | 1/10W  |
| R693         | 1-216-025-00 | RES, CHIP                      | 100      | 5%         | 1/10W  |
| R694         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| R695         | 1-216-821-11 | METAL CHIP                     | 1K       | 5%         | 1/16W  |
| < VIBRATOR > |              |                                |          |            |        |
| X601         | 1-760-174-11 | VIBRATOR, CERAMIC (12MHz)      |          |            |        |
| X602         | 1-781-183-11 | VIBRATOR, CRYSTAL (32.768kHz)  |          |            |        |
| X603         | 1-760-173-11 | VIBRATOR, CRYSTAL (45.1584MHz) |          |            |        |

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| Ref. No.                         | Part No.     | Description                   | Quantity | Percentage | Remark |
|----------------------------------|--------------|-------------------------------|----------|------------|--------|
| LAMP BOARD                       |              |                               |          |            |        |
| *****                            |              |                               |          |            |        |
| (Included in LCD board complete) |              |                               |          |            |        |
| < PILOT LAMP >                   |              |                               |          |            |        |
| PL553                            | 1-517-848-11 | LAMP, PILOT (LCD BACK LIGHT)  |          |            |        |
| PL554                            | 1-517-848-11 | LAMP, PILOT (LCD BACK LIGHT)  |          |            |        |
| PL555                            | 1-517-848-11 | LAMP, PILOT (LCD BACK LIGHT)  |          |            |        |
| *****                            |              |                               |          |            |        |
| *                                | A-3323-215-A | LCD BOARD, COMPLETE (US, CND) |          |            |        |
| *                                | A-3323-275-A | LCD BOARD, COMPLETE (AEP, UK) |          |            |        |
| *****                            |              |                               |          |            |        |
| (Including LAMP board complete)  |              |                               |          |            |        |
| < CAPACITOR >                    |              |                               |          |            |        |
| C559                             | 1-163-009-11 | CERAMIC CHIP                  | 0.001uF  | 10%        | 50V    |
| C560                             | 1-163-009-11 | CERAMIC CHIP                  | 0.001uF  | 10%        | 50V    |
| C561                             | 1-163-251-11 | CERAMIC CHIP                  | 100PF    | 5%         | 50V    |
| C562                             | 1-163-251-11 | CERAMIC CHIP                  | 100PF    | 5%         | 50V    |
| C563                             | 1-163-038-00 | CERAMIC CHIP                  | 0.1uF    |            | 25V    |
| C564                             | 1-163-021-11 | CERAMIC CHIP                  | 0.01uF   | 10%        | 50V    |
| C565                             | 1-109-982-11 | CERAMIC CHIP                  | 1uF      | 10%        | 10V    |
| C566                             | 1-109-982-11 | CERAMIC CHIP                  | 1uF      | 10%        | 10V    |
| C567                             | 1-109-982-11 | CERAMIC CHIP                  | 1uF      | 10%        | 10V    |
| C568                             | 1-109-982-11 | CERAMIC CHIP                  | 1uF      | 10%        | 10V    |
| C569                             | 1-109-982-11 | CERAMIC CHIP                  | 1uF      | 10%        | 10V    |
| C570                             | 1-107-823-11 | CERAMIC CHIP                  | 0.47uF   | 10%        | 16V    |
| C571                             | 1-107-823-11 | CERAMIC CHIP                  | 0.47uF   | 10%        | 16V    |
| C572                             | 1-107-823-11 | CERAMIC CHIP                  | 0.47uF   | 10%        | 16V    |
| C573                             | 1-104-665-11 | ELECT                         | 100uF    | 20%        | 10V    |
| < CONNECTOR >                    |              |                               |          |            |        |
| CN552                            | 1-691-068-21 | HOUSING, CONNECTOR 9P         |          |            |        |
| CN553                            | 1-563-624-11 | HOUSING, CONNECTOR 21P        |          |            |        |
| < SHORT >                        |              |                               |          |            |        |
| JC556                            | 1-216-295-00 | SHORT                         | 0        |            |        |
| < RESISTOR >                     |              |                               |          |            |        |
| R576                             | 1-216-114-00 | RES, CHIP                     | 510K     | 5%         | 1/10W  |
| R577                             | 1-216-111-00 | METAL CHIP                    | 390K     | 5%         | 1/10W  |
| R580                             | 1-216-049-11 | RES, CHIP                     | 1K       | 5%         | 1/10W  |
| R581                             | 1-216-049-11 | RES, CHIP                     | 1K       | 5%         | 1/10W  |
| R582                             | 1-216-049-11 | RES, CHIP                     | 1K       | 5%         | 1/10W  |
| R583                             | 1-216-049-11 | RES, CHIP                     | 1K       | 5%         | 1/10W  |
| R584                             | 1-216-049-11 | RES, CHIP                     | 1K       | 5%         | 1/10W  |
| < VARIABLE RESISTOR >            |              |                               |          |            |        |
| RV550                            | 1-230-726-11 | RES, ADJ, CARBON 470K         |          |            |        |
| *****                            |              |                               |          |            |        |
| *                                | 1-674-446-11 | LINE IN BOARD                 |          |            |        |
| *****                            |              |                               |          |            |        |
| < CONNECTOR >                    |              |                               |          |            |        |
| CN305                            | 1-506-986-11 | PIN, CONNECTOR (PC BOARD) 4P  |          |            |        |



|         |      |
|---------|------|
| LINE IN | MAIN |
|---------|------|

| Ref. No.               | Part No.     | Description                    | Remark |
|------------------------|--------------|--------------------------------|--------|
| < DIODE >              |              |                                |        |
| D308                   | 8-719-988-61 | DIODE 1SS355TE-17              |        |
| D309                   | 8-719-988-61 | DIODE 1SS355TE-17              |        |
| < COIL >               |              |                                |        |
| FB102                  | 1-414-196-41 | INDUCTOR, CHIP 47uH (AEP, UK)  |        |
| FB102                  | 1-500-445-21 | FERRITE 0uH (US,CND)           |        |
| FB202                  | 1-414-196-41 | INDUCTOR, CHIP 47uH (AEP, UK)  |        |
| FB202                  | 1-500-445-21 | FERRITE 0uH (US,CND)           |        |
| FB302                  | 1-414-196-41 | INDUCTOR, CHIP 47uH (AEP, UK)  |        |
| FB302                  | 1-500-445-21 | FERRITE 0uH (US,CND)           |        |
| FB303                  | 1-414-196-41 | INDUCTOR, CHIP 47uH (AEP, UK)  |        |
| FB303                  | 1-500-445-21 | FERRITE 0uH (US,CND)           |        |
| < JACK >               |              |                                |        |
| J303                   | 1-785-369-11 | JACK (LINE IN)                 |        |
| *****                  |              |                                |        |
| *                      | A-3321-986-A | MAIN BOARD, COMPLETE (US, CND) |        |
| *                      | A-3322-139-A | MAIN BOARD, COMPLETE (AEP, UK) |        |
| *****                  |              |                                |        |
| < CAPACITOR/RESISTOR > |              |                                |        |
| C101                   | 1-126-964-11 | ELECT 10uF 20%                 | 50V    |
| C102                   | 1-126-960-11 | ELECT 1uF 20%                  | 50V    |
| C103                   | 1-126-960-11 | ELECT 1uF 20%                  | 50V    |
| C104                   | 1-126-964-11 | ELECT 10uF 20%                 | 50V    |
| C105                   | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%        | 25V    |
| C106                   | 1-164-172-11 | CERAMIC CHIP 0.0056uF 10%      | 25V    |
| C107                   | 1-162-979-11 | CERAMIC CHIP 0.0027uF 10%      | 50V    |
| C108                   | 1-126-964-11 | ELECT 10uF 20%                 | 50V    |
| C109                   | 1-126-961-11 | ELECT 2.2uF 20%                | 50V    |
| C110                   | 1-126-961-11 | ELECT 2.2uF 20%                | 50V    |
| C111                   | 1-126-961-11 | ELECT 2.2uF 20%                | 50V    |
| C112                   | 1-126-961-11 | ELECT 2.2uF 20%                | 50V    |
| C113                   | 1-104-665-11 | ELECT 100uF 20%                | 10V    |
| C114                   | 1-164-230-11 | CERAMIC CHIP 220PF 5%          | 50V    |
| C115                   | 1-164-230-11 | CERAMIC CHIP 220PF 5%          | 50V    |
| C116                   | 1-163-251-11 | CERAMIC CHIP 100PF 5%          | 50V    |
| C201                   | 1-126-964-11 | ELECT 10uF 20%                 | 50V    |
| C202                   | 1-126-960-11 | ELECT 1uF 20%                  | 50V    |
| C203                   | 1-126-960-11 | ELECT 1uF 20%                  | 50V    |
| C204                   | 1-126-964-11 | ELECT 10uF 20%                 | 50V    |
| C205                   | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%        | 25V    |
| C206                   | 1-164-172-11 | CERAMIC CHIP 0.0056uF 10%      | 25V    |
| C207                   | 1-162-979-11 | CERAMIC CHIP 0.0027uF 10%      | 50V    |
| C208                   | 1-126-964-11 | ELECT 10uF 20%                 | 50V    |
| C209                   | 1-126-961-11 | ELECT 2.2uF 20%                | 50V    |
| C210                   | 1-126-961-11 | ELECT 2.2uF 20%                | 50V    |
| C211                   | 1-126-961-11 | ELECT 2.2uF 20%                | 50V    |
| C212                   | 1-104-665-11 | ELECT 100uF 20%                | 10V    |
| C213                   | 1-126-961-11 | ELECT 2.2uF 20%                | 50V    |
| C214                   | 1-164-230-11 | CERAMIC CHIP 220PF 5%          | 50V    |
| C215                   | 1-164-230-11 | CERAMIC CHIP 220PF 5%          | 50V    |
| C216                   | 1-163-251-11 | CERAMIC CHIP 100PF 5%          | 50V    |
| C301                   | 1-126-964-11 | ELECT 10uF 20%                 | 50V    |
| C302                   | 1-126-964-11 | ELECT 10uF 20%                 | 50V    |
| C303                   | 1-104-665-11 | ELECT 100uF 20%                | 10V    |

| Ref. No. | Part No.     | Description              | Remark        |
|----------|--------------|--------------------------|---------------|
| C304     | 1-164-004-11 | CERAMIC CHIP 0.1uF 10%   | 25V           |
| C305     | 1-104-665-11 | ELECT 100uF 20%          | 10V           |
| C306     | 1-104-665-11 | ELECT 100uF 20%          | 10V           |
| C307     | 1-104-665-11 | ELECT 100uF 20%          | 10V           |
| C308     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C309     | 1-104-665-11 | ELECT 100uF 20%          | 10V           |
| C310     | 1-126-964-11 | ELECT 10uF 20%           | 50V           |
| C311     | 1-164-004-11 | CERAMIC CHIP 0.1uF 10%   | 25V           |
| C312     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C313     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C401     | 1-117-850-11 | ELECT 15000uF 20%        | 16V           |
| C402     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C403     | 1-126-964-11 | ELECT 10uF 20%           | 50V           |
| C404     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C405     | 1-104-905-11 | CAPACITOR 0.22F          | 5.5V          |
| C406     | 1-163-059-00 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C407     | 1-126-964-11 | ELECT 10uF 20%           | 50V           |
| C408     | 1-126-917-11 | ELECT 3300uF 20%         | 6.3V          |
| C409     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C410     | 1-126-926-11 | ELECT 1000uF 20%         | 10V           |
| C411     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C412     | 1-126-925-11 | ELECT 470uF 20%          | 10V           |
| C413     | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%  | 25V           |
| C414     | 1-104-664-11 | ELECT 47uF 20%           | 10V           |
| C415     | 1-126-964-11 | ELECT 10uF 20%           | 50V           |
| C416     | 1-126-964-11 | ELECT 10uF 20%           | 50V           |
| C417     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C418     | 1-104-664-11 | ELECT 47uF 20%           | 10V           |
| C419     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C420     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V           |
| C421     | 1-163-009-11 | CERAMIC CHIP 0.001uF 10% | 50V           |
| C422     | 1-163-239-11 | CERAMIC CHIP 33PF 5%     | 50V           |
| C423     | 1-164-378-11 | CERAMIC CHIP 30PF 5%     | 50V           |
| C424     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V           |
| C425     | 1-162-920-11 | CERAMIC CHIP 27PF 5%     | 50V           |
| C426     | 1-162-921-11 | CERAMIC CHIP 33PF 5%     | 50V           |
| C427     | 1-162-919-11 | CERAMIC CHIP 22PF 5%     | 50V           |
| C428     | 1-162-919-11 | CERAMIC CHIP 22PF 5%     | 50V           |
| C429     | 1-107-725-11 | CERAMIC CHIP 0.1uF 10%   | 16V           |
| C430     | 1-164-505-11 | CERAMIC CHIP 2.2uF       | 16V           |
| C431     | 1-104-665-11 | ELECT 100uF 20%          | 10V           |
| C432     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V           |
| C433     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V           |
| C434     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V           |
| C435     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V           |
| C436     | 1-162-927-11 | CERAMIC CHIP 100P 5%     | 50V (AEP, UK) |
| C436     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V (US, CND) |
| C437     | 1-162-927-11 | CERAMIC CHIP 100P 5%     | 50V (AEP, UK) |
| C437     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V (US, CND) |
| C438     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V           |
| C439     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V           |
| C440     | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%  | 25V           |
| C441     | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%  | 25V           |
| C442     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V           |

| Ref. No. | Part No.     | Description  |         |     | Remark | Ref. No. | Part No.     | Description  |          |     | Remark    |
|----------|--------------|--------------|---------|-----|--------|----------|--------------|--------------|----------|-----|-----------|
| C443     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C498     | 1-163-021-11 | CERAMIC CHIP | 0.01uF   | 10% | 50V       |
| C444     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     | (AEP, UK) |
| C445     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C499     | 1-126-925-11 | ELECT        | 470uF    | 20% | 10V       |
|          |              |              |         |     |        |          |              |              |          |     | (AEP, UK) |
| C446     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C500     | 1-163-135-00 | CERAMIC CHIP | 560PF    | 5%  | 50V       |
| C447     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     | (AEP, UK) |
| C448     | 1-162-970-11 | CERAMIC CHIP | 0.01uF  | 10% | 25V    | C501     | 1-162-964-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C449     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     | (AEP, UK) |
| C450     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C502     | 1-162-927-11 | CERAMIC CHIP | 100PF    | 5%  | 50V       |
|          |              |              |         |     |        |          |              |              |          |     | (AEP, UK) |
| C451     | 1-162-970-11 | CERAMIC CHIP | 0.01uF  | 10% | 25V    | C503     | 1-162-970-11 | CERAMIC CHIP | 0.01uF   | 10% | 25V       |
| C452     | 1-162-970-11 | CERAMIC CHIP | 0.01uF  | 10% | 25V    |          |              |              |          |     |           |
| C453     | 1-162-970-11 | CERAMIC CHIP | 0.01uF  | 10% | 25V    | C504     | 1-162-970-11 | CERAMIC CHIP | 0.01uF   | 10% | 25V       |
| C454     | 1-163-021-11 | CERAMIC CHIP | 0.01uF  | 10% | 50V    | C505     | 1-162-964-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C455     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C506     | 1-162-964-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
|          |              |              |         |     |        | C507     | 1-162-970-11 | CERAMIC CHIP | 0.01uF   | 10% | 25V       |
| C456     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C508     | 1-162-964-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C457     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%  | 50V    |          |              |              |          |     |           |
| C458     | 1-163-251-11 | CERAMIC CHIP | 100PF   | 5%  | 50V    | C509     | 1-163-009-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C459     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     | (AEP, UK) |
| C460     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C510     | 1-163-009-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
|          |              |              |         |     |        | C511     | 1-163-009-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C461     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C512     | 1-163-009-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C462     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C513     | 1-162-964-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C463     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     |           |
| C464     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C514     | 1-163-205-00 | CERAMIC CHIP | 0.001uF  | 5%  | 50V       |
| C465     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C518     | 1-163-021-11 | CERAMIC CHIP | 0.01uF   | 10% | 50V       |
|          |              |              |         |     |        | C519     | 1-109-982-11 | CERAMIC CHIP | 1uF      | 10% | 10V       |
| C466     | 1-164-315-11 | CERAMIC CHIP | 470PF   | 5%  | 50V    | C520     | 1-162-964-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C467     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C521     | 1-163-009-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C468     | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     |           |
| C469     | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C522     | 1-162-970-11 | CERAMIC CHIP | 0.01uF   | 10% | 25V       |
| C470     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C523     | 1-162-964-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
|          |              |              |         |     |        | C524     | 1-162-970-11 | CERAMIC CHIP | 0.01uF   | 10% | 25V       |
| C471     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%  | 50V    | C525     | 1-163-009-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C472     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%  | 50V    | C526     | 1-163-251-11 | CERAMIC CHIP | 100PF    | 5%  | 50V       |
| C473     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%  | 50V    |          |              |              |          |     |           |
| C475     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%  | 50V    | C528     | 1-163-021-11 | CERAMIC CHIP | 0.01uF   | 10% | 50V       |
| C476     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%  | 50V    | C529     | 1-163-021-11 | CERAMIC CHIP | 0.01uF   | 10% | 50V       |
|          |              |              |         |     |        | C530     | 1-109-982-11 | CERAMIC CHIP | 1uF      | 10% | 10V       |
| C477     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     | (AEP, UK) |
| C478     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C530     | 1-163-009-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C479     | 1-162-923-11 | CERAMIC CHIP | 47PF    | 5%  | 50V    |          |              |              |          |     | (US, CND) |
| C480     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C531     | 1-109-982-11 | CERAMIC CHIP | 1uF      | 10% | 10V       |
| C483     | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     |           |
|          |              |              |         |     |        | C532     | 1-109-982-11 | CERAMIC CHIP | 1uF      | 10% | 10V       |
| C484     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     | (AEP, UK) |
| C485     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C537     | 1-109-982-11 | CERAMIC CHIP | 1uF      | 10% | 10V       |
| C486     | 1-164-315-11 | CERAMIC CHIP | 470PF   | 5%  | 50V    | C538     | 1-109-982-11 | CERAMIC CHIP | 1uF      | 10% | 10V       |
| C487     | 1-164-315-11 | CERAMIC CHIP | 470PF   | 5%  | 50V    |          |              |              |          |     | (AEP, UK) |
| C488     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C701     | 1-104-665-11 | ELECT        | 100uF    | 20% | 10V       |
|          |              |              |         |     |        | C702     | 1-163-021-11 | CERAMIC CHIP | 0.01uF   | 10% | 50V       |
| C489     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    |          |              |              |          |     |           |
| C490     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C703     | 1-162-964-11 | CERAMIC CHIP | 0.001uF  | 10% | 50V       |
| C491     | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V    | C705     | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V       |
| C492     | 1-126-961-11 | ELECT        | 2.2uF   | 20% | 50V    | C706     | 1-162-970-11 | CERAMIC CHIP | 0.01uF   | 10% | 25V       |
|          |              |              |         |     |        | C707     | 1-126-926-11 | ELECT        | 1000uF   | 20% | 10V       |
| C493     | 1-163-239-11 | CERAMIC CHIP | 33PF    | 5%  | 50V    | C708     | 1-107-826-11 | CERAMIC CHIP | 0.1uF    | 10% | 16V       |
|          |              |              |         |     |        |          |              |              |          |     | (AEP, UK) |
| C494     | 1-163-263-11 | CERAMIC CHIP | 330PF   | 5%  | 50V    | C709     | 1-216-864-11 | METAL CHIP   | 0        | 5%  | 1/16W     |
|          |              |              |         |     |        | C710     | 1-107-826-11 | CERAMIC CHIP | 0.1uF    | 10% | 16V       |
| C495     | 1-163-239-11 | CERAMIC CHIP | 33PF    | 5%  | 50V    | C711     | 1-107-826-11 | CERAMIC CHIP | 0.1uF    | 10% | 16V       |
|          |              |              |         |     |        | C712     | 1-164-227-11 | CERAMIC CHIP | 0.022uF  | 10% | 25V       |
| C496     | 1-128-551-11 | ELECT        | 22uF    | 20% | 25V    | C713     | 1-104-665-11 | ELECT        | 100uF    | 20% | 10V       |
|          |              |              |         |     |        |          |              |              |          |     | (AEP, UK) |
| C497     | 1-163-021-11 | CERAMIC CHIP | 0.01uF  | 10% | 50V    | C714     | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V       |
|          |              |              |         |     |        | C715     | 1-107-826-11 | CERAMIC CHIP | 0.1uF    | 10% | 16V       |
|          |              |              |         |     |        | C716     | 1-104-664-11 | ELECT        | 47uF     | 20% | 10V       |
|          |              |              |         |     |        | C717     | 1-107-826-11 | CERAMIC CHIP | 0.1uF    | 10% | 16V       |

# MAIN

| Ref. No. | Part No.     | Description   | Remark           | Ref. No.          | Part No.     | Description               | Remark                |
|----------|--------------|---------------|------------------|-------------------|--------------|---------------------------|-----------------------|
| C718     | 1-107-826-11 | CERAMIC CHIP  | 0.1uF 10% 16V    | C783              | 1-109-982-11 | CERAMIC CHIP              | 1uF 10% 10V           |
| C719     | 1-162-909-11 | CERAMIC CHIP  | 4PF 0.25PF 50V   | C784              | 1-163-021-11 | CERAMIC CHIP              | 0.01uF 10% 50V        |
| C720     | 1-119-660-11 | TANTALUM CHIP | 4.7uF 20% 6.3V   | C785              | 1-163-021-11 | CERAMIC CHIP              | 0.01uF 10% 50V        |
| C721     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | C787              | 1-163-021-11 | CERAMIC CHIP              | 0.01uF 10% 50V        |
| C722     | 1-164-677-11 | CERAMIC CHIP  | 0.033uF 10% 16V  | C788              | 1-126-934-11 | ELECT                     | 220uF 20% 10V         |
| C723     | 1-164-677-11 | CERAMIC CHIP  | 0.033uF 10% 16V  | C789              | 1-163-009-11 | CERAMIC CHIP              | 0.001uF 10% 50V       |
| C724     | 1-162-913-11 | CERAMIC CHIP  | 8PF 0.50PF 50V   | C791              | 1-109-982-11 | CERAMIC CHIP              | 1uF 10% 10V           |
| C725     | 1-164-315-11 | CERAMIC CHIP  | 470PF 5% 50V     | C792              | 1-126-925-11 | ELECT                     | 470uF 20% 10V         |
| C726     | 1-104-509-11 | CERAMIC CHIP  | 0.018uF 10% 16V  | < CONNECTOR >     |              |                           |                       |
| C727     | 1-107-826-11 | CERAMIC CHIP  | 0.1uF 10% 16V    | * CN302           | 1-580-171-11 | PIN, CONNECTOR (PC BOARD) | 10P                   |
| C728     | 1-162-915-11 | CERAMIC CHIP  | 10PF 0.5PF 50V   | CN303             | 1-580-168-11 | PIN, CONNECTOR (PC BOARD) | 7P                    |
| C729     | 1-162-969-11 | CERAMIC CHIP  | 0.0068uF 10% 25V | * CN312           | 1-580-154-11 | PIN, CONNECTOR (PC BOARD) | 2P                    |
| C730     | 1-126-961-11 | ELECT         | 2.2uF 20% 50V    | * CN401           | 1-564-518-11 | PLUG, CONNECTOR           | 3P                    |
| C731     | 1-110-563-11 | CERAMIC CHIP  | 0.068uF 10% 16V  | * CN402           | 1-580-168-21 | PIN, CONNECTOR (PC BOARD) | 7P                    |
| C732     | 1-163-113-00 | CERAMIC CHIP  | 68PF 5% 50V      | CN404             | 1-580-168-11 | PIN, CONNECTOR (PC BOARD) | 7P                    |
| C733     | 1-162-923-11 | CERAMIC CHIP  | 47PF 5% 50V      | CN405             | 1-770-533-31 | CONNECTOR, FFC/FPC        | 26P                   |
| C735     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | CN406             | 1-568-852-11 | CONNECTOR, FFC/FPC        | 9P                    |
| C736     | 1-104-665-11 | ELECT         | 100uF 20% 10V    | CN407             | 1-770-520-31 | CONNECTOR, FFC/FPC        | 12P                   |
| C737     | 1-163-251-11 | CERAMIC CHIP  | 100PF 5% 50V     | CN408             | 1-580-168-11 | PIN, CONNECTOR (PC BOARD) | 7P                    |
| C738     | 1-163-251-11 | CERAMIC CHIP  | 100PF 5% 50V     | CN409             | 1-770-516-31 | CONNECTOR, FFC/FPC        | 8P                    |
| C739     | 1-163-251-11 | CERAMIC CHIP  | 100PF 5% 50V     | * CN701           | 1-779-466-11 | CONNECTOR, FFC/FPC        | 16P                   |
| C740     | 1-163-021-11 | CERAMIC CHIP  | 0.01uF 10% 50V   | CN702             | 1-770-519-31 | CONNECTOR, FFC/FPC        | 11P                   |
| C744     | 1-163-251-11 | CERAMIC CHIP  | 100PF 5% 50V     | * CN704           | 1-580-163-11 | PIN, CONNECTOR (PC BOARD) | 2P                    |
| C745     | 1-162-965-11 | CERAMIC CHIP  | 0.0015uF 10% 50V | < DIODE >         |              |                           |                       |
| C746     | 1-164-230-11 | CERAMIC CHIP  | 220PF 5% 50V     | D301              | 8-719-988-61 | DIODE                     | 1SS355TE-17           |
| C747     | 1-164-489-11 | CERAMIC CHIP  | 0.22uF 10% 16V   | D302              | 8-719-988-61 | DIODE                     | 1SS355TE-17           |
| C748     | 1-165-176-11 | CERAMIC CHIP  | 0.047uF 10% 16V  | D303              | 8-719-988-61 | DIODE                     | 1SS355TE-17           |
| C749     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | D304              | 8-719-988-61 | DIODE                     | 1SS355TE-17           |
| C750     | 1-163-021-11 | CERAMIC CHIP  | 0.01uF 10% 50V   | D401              | 8-719-988-61 | DIODE                     | 1SS355TE-17           |
| C751     | 1-163-021-11 | CERAMIC CHIP  | 0.01uF 10% 50V   | D402              | 8-719-056-83 | DIODE                     | UDZ-TE-17-6.8B        |
| C752     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | D403              | 8-719-988-61 | DIODE                     | 1SS355TE-17 (AEP, UK) |
| C753     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | D404              | 8-719-988-61 | DIODE                     | 1SS355TE-17           |
| C755     | 1-163-251-11 | CERAMIC CHIP  | 100PF 5% 50V     | D407              | 8-719-988-61 | DIODE                     | 1SS355TE-17           |
| C756     | 1-163-263-11 | CERAMIC CHIP  | 330PF 5% 50V     | D703              | 8-719-056-76 | DIODE                     | UDZ-TE-17-3.6B        |
| C757     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | < COIL/RESISTOR > |              |                           |                       |
| C758     | 1-163-251-11 | CERAMIC CHIP  | 100PF 5% 50V     | FB101             | 1-216-295-00 | SHORT                     | 0 (US, CND)           |
| C759     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | FB101             | 1-469-152-11 | FERRITE                   | 0uH (AEP, UK)         |
| C760     | 1-163-251-11 | CERAMIC CHIP  | 100PF 5% 50V     | FB201             | 1-216-295-00 | SHORT                     | 0 (US, CND)           |
| C761     | 1-163-251-11 | CERAMIC CHIP  | 100PF 5% 50V     | FB201             | 1-469-152-11 | FERRITE                   | 0uH (AEP, UK)         |
| C762     | 1-107-682-11 | CERAMIC CHIP  | 1uF 10% 16V      | FB301             | 1-216-295-00 | SHORT                     | 0 (US, CND)           |
| C763     | 1-163-125-00 | CERAMIC CHIP  | 220PF 5% 50V     | FB301             | 1-469-152-11 | FERRITE                   | 0uH (AEP, UK)         |
| C764     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | FB401             | 1-216-296-00 | SHORT                     | 0                     |
| C765     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | FB402             | 1-469-125-21 | FERRITE                   | 0uH                   |
| C767     | 1-163-229-11 | CERAMIC CHIP  | 12PF 5% 50V      | FB403             | 1-469-152-11 | FERRITE                   | 0uH                   |
| C768     | 1-163-229-11 | CERAMIC CHIP  | 12PF 5% 50V      | FB404             | 1-469-125-21 | FERRITE                   | 0uH                   |
| C770     | 1-104-665-11 | ELECT         | 100uF 20% 10V    | FB405             | 1-469-152-11 | FERRITE                   | 0uH                   |
| C771     | 1-104-665-11 | ELECT         | 100uF 20% 10V    | FB406             | 1-469-152-11 | FERRITE                   | 0uH                   |
| C772     | 1-163-009-11 | CERAMIC CHIP  | 0.001uF 10% 50V  | FB407             | 1-469-125-21 | FERRITE                   | 0uH                   |
| C773     | 1-126-964-11 | ELECT         | 10uF 20% 50V     | FB408             | 1-469-152-11 | FERRITE                   | 0uH                   |
| C774     | 1-126-964-11 | ELECT         | 10uF 20% 50V     | FB409             | 1-469-125-21 | FERRITE                   | 0uH                   |
| C775     | 1-163-021-11 | CERAMIC CHIP  | 0.01uF 10% 50V   | FB410             | 1-469-125-21 | FERRITE                   | 0uH                   |
| C776     | 1-125-822-11 | TANTALUM      | 10uF 20% 10V     | FB411             | 1-216-295-00 | SHORT                     | 0                     |
| C777     | 1-104-665-11 | ELECT         | 100uF 20% 10V    | FB412             | 1-469-185-11 | FERRITE                   | 0uH                   |
| C778     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   | FB413             | 1-469-185-11 | FERRITE                   | 0uH                   |
| C779     | 1-162-927-11 | CERAMIC CHIP  | 100PF 5% 50V     | FB414             | 1-469-152-11 | FERRITE                   | 0uH                   |
| C780     | 1-164-230-11 | CERAMIC CHIP  | 220PF 5% 50V     |                   |              |                           |                       |
| C781     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF 10% 25V   |                   |              |                           |                       |

| Ref. No. | Part No.     | Description    | Remark               | Ref. No.  | Part No.     | Description   | Remark         |                |                |
|----------|--------------|----------------|----------------------|-----------|--------------|---------------|----------------|----------------|----------------|
| FB415    | 1-469-152-11 | FERRITE        | 0uH                  | JC403     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB417    | 1-469-125-21 | FERRITE        | 0uH                  | JC404     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB418    | 1-469-125-21 | FERRITE        | 0uH                  | JC405     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB419    | 1-469-125-21 | FERRITE        | 0uH                  | JC406     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB420    | 1-469-125-21 | FERRITE        | 0uH                  | JC407     | 1-216-295-00 | SHORT         | 0              |                |                |
| FB421    | 1-469-125-21 | FERRITE        | 0uH                  | JC408     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB422    | 1-469-125-21 | FERRITE        | 0uH                  | JC409     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB423    | 1-216-295-00 | SHORT          | 0                    | JC412     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB424    | 1-216-295-00 | SHORT          | 0                    | JC413     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB425    | 1-216-295-00 | SHORT          | 0                    | JC414     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB426    | 1-216-864-11 | METAL CHIP     | 0                    | 5%        | 1/16W        | JC415         | 1-216-295-00   | SHORT          | 0              |
| FB427    | 1-216-295-00 | SHORT          | 0                    | (US, CND) | JC700        | 1-216-296-00  | SHORT          | 0              |                |
| FB427    | 1-414-170-41 | INDUCTOR, CHIP | 100uH                | (AEP, UK) | JC701        | 1-216-296-00  | SHORT          | 0              |                |
| FB428    | 1-216-295-00 | SHORT          | 0                    | (AEP, UK) | JC702        | 1-216-296-00  | SHORT          | 0              |                |
| FB429    | 1-216-295-00 | SHORT          | 0                    | JC703     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB430    | 1-216-295-00 | SHORT          | 0                    | JC704     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB431    | 1-216-295-00 | SHORT          | 0                    | JC705     | 1-216-296-00 | SHORT         | 0              |                |                |
| FB432    | 1-216-864-11 | METAL CHIP     | 0                    | 5%        | 1/16W        |               |                |                |                |
| FB433    | 1-216-295-00 | SHORT          | 0                    |           |              |               |                | < COIL >       |                |
| FB434    | 1-216-864-11 | METAL CHIP     | 0                    | 5%        | 1/16W        | L301          | 1-410-993-42   | INDUCTOR CHIP  | 1uH            |
| FB435    | 1-500-445-21 | FERRITE        | 0uH                  | L302      | 1-410-993-42 | INDUCTOR CHIP | 1uH            |                |                |
| FB436    | 1-216-295-00 | SHORT          | 0                    | L303      | 1-410-993-42 | INDUCTOR CHIP | 1uH            |                |                |
| FB437    | 1-500-445-21 | FERRITE        | 0uH                  | L401      | 1-414-170-41 | INDUCTOR      | 100uH          | (AEP, UK)      |                |
| FB438    | 1-500-445-21 | FERRITE        | 0uH                  | L402      | 1-414-394-41 | INDUCTOR      | 2.2uH          |                |                |
| FB701    | 1-216-864-11 | METAL CHIP     | 0                    | 5%        | 1/16W        | L403          | 1-414-394-41   | INDUCTOR       | 2.2uH          |
| FB702    | 1-469-180-22 | FERRITE        | 0uH                  | L701      | 1-412-967-31 | INDUCTOR      | 0.1uH          |                |                |
| FB703    | 1-216-864-11 | METAL CHIP     | 0                    | 5%        | 1/16W        | L702          | 1-410-997-42   | INDUCTOR CHIP  | 2.2uH          |
| FB704    | 1-216-295-00 | SHORT          | 0                    |           |              |               |                | < TRANSISTOR > |                |
| FB705    | 1-469-180-22 | FERRITE        | 0uH                  | Q101      | 8-729-920-31 | TRANSISTOR    | DTC343TK       |                |                |
| FB706    | 1-469-180-22 | FERRITE        | 0uH                  | Q102      | 8-729-920-31 | TRANSISTOR    | DTC343TK       |                |                |
| FB707    | 1-469-180-22 | FERRITE        | 0uH                  | Q103      | 8-729-903-10 | TRANSISTOR    | FMW1           |                |                |
| FB708    | 1-500-445-21 | FERRITE        | 0uH                  | Q104      | 8-729-920-31 | TRANSISTOR    | DTC343TK       |                |                |
| FB711    | 1-500-445-21 | FERRITE        | 0uH                  | Q105      | 8-729-027-46 | TRANSISTOR    | DTC114YKA-T146 |                |                |
| FB712    | 1-500-445-21 | FERRITE        | 0uH                  | Q106      | 8-729-920-31 | TRANSISTOR    | DTC343TK       |                |                |
| FB713    | 1-414-813-11 | FERRITE        | 0uH                  | Q201      | 8-729-920-31 | TRANSISTOR    | DTC343TK       |                |                |
| FB714    | 1-414-813-11 | FERRITE        | 0uH                  | Q202      | 8-729-920-31 | TRANSISTOR    | DTC343TK       |                |                |
|          |              | < IC >         |                      | Q203      | 8-729-903-10 | TRANSISTOR    | FMW1           |                |                |
| IC301    | 8-759-287-76 | IC             | NJM2123M-T1          | Q204      | 8-729-920-31 | TRANSISTOR    | DTC343TK       |                |                |
| IC302    | 8-759-636-55 | IC             | M5218AFP             | Q205      | 8-729-027-46 | TRANSISTOR    | DTC114YKA-T146 |                |                |
| IC406    | 8-759-557-36 | IC             | BU1924F-E2 (AEP, UK) | Q206      | 8-729-920-31 | TRANSISTOR    | DTC343TK       |                |                |
| IC401    | 8-759-450-47 | IC             | BA05T                | Q301      | 8-729-920-41 | TRANSISTOR    | FMC3           |                |                |
| IC402    | 8-759-486-73 | IC             | XC62FP3302PR         | Q302      | 8-729-920-41 | TRANSISTOR    | FMC3           |                |                |
| IC403    | 8-759-493-53 | IC             | S-81233SGUP-DQF-T1   | Q303      | 8-729-027-24 | TRANSISTOR    | DTA114TKA-T146 |                |                |
| IC404    | 8-759-572-25 | IC             | XC61AN2702PR         | Q304      | 8-729-027-24 | TRANSISTOR    | DTA114TKA-T146 |                |                |
| IC405    | 8-752-909-98 | IC             | CXP740096-032Q       | Q305      | 8-729-920-41 | TRANSISTOR    | FMC3           |                |                |
| IC701    | 8-752-083-24 | IC             | CXA2542AQ            | Q306      | 8-729-920-41 | TRANSISTOR    | FMC3           |                |                |
| IC702    | 8-752-387-78 | IC             | CXD3009Q             | Q307      | 8-729-920-41 | TRANSISTOR    | FMC3           |                |                |
| IC703    | 8-759-591-62 | IC             | BA6998FP-E2          | Q308      | 8-729-027-24 | TRANSISTOR    | DTA114TKA-T146 |                |                |
|          |              | < JACK >       |                      | Q401      | 8-729-920-41 | TRANSISTOR    | FMC3           |                |                |
| J301     | 1-785-368-11 | JACK (♁)       |                      | Q402      | 8-729-922-62 | TRANSISTOR    | 2SD1760F5-TLQ  |                |                |
|          |              | < RESISTOR >   |                      | Q403      | 8-729-920-41 | TRANSISTOR    | FMC3           |                |                |
| JC301    | 1-216-864-11 | METAL CHIP     | 0                    | 5%        | 1/16W        | Q404          | 8-729-027-46   | TRANSISTOR     | DTC114YKA-T146 |
| JC401    | 1-216-296-00 | SHORT          | 0                    | Q405      | 8-729-903-46 | TRANSISTOR    | 2SB1132-P      |                |                |
| JC402    | 1-216-296-00 | SHORT          | 0                    | Q406      | 8-729-903-10 | TRANSISTOR    | FMW1           |                |                |
|          |              |                |                      | Q407      | 8-729-027-46 | TRANSISTOR    | DTC114YKA-T146 |                |                |
|          |              |                |                      | Q408      | 8-729-027-46 | TRANSISTOR    | DTC114YKA-T146 |                |                |
|          |              |                |                      | Q409      | 8-729-027-26 | TRANSISTOR    | DTA114YKA-T146 |                |                |

**MAIN**

| Ref. No.     | Part No.     | Description | Remark                   |    |       | Ref. No. | Part No.     | Description | Remark |    |       |
|--------------|--------------|-------------|--------------------------|----|-------|----------|--------------|-------------|--------|----|-------|
| Q410         | 8-729-903-46 | TRANSISTOR  | 2SB1132-P                |    |       | R214     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
| Q411         | 8-729-027-46 | TRANSISTOR  | DTC114YKA-T146           |    |       | R215     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
| Q412         | 8-729-027-46 | TRANSISTOR  | DTC114YKA-T146           |    |       | R216     | 1-216-845-11 | METAL CHIP  | 100K   | 5% | 1/16W |
| Q413         | 8-729-027-26 | TRANSISTOR  | DTA114YKA-T146           |    |       | R217     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
| Q415         | 8-729-027-26 | TRANSISTOR  | DTA114YKA-T146 (AEP, UK) |    |       | R218     | 1-216-864-11 | METAL CHIP  | 0      | 5% | 1/16W |
| Q701         | 8-729-101-07 | TRANSISTOR  | 2SB798-DL                |    |       | R219     | 1-216-097-00 | RES, CHIP   | 100K   | 5% | 1/10W |
| Q702         | 8-729-027-29 | TRANSISTOR  | DTA123JKA-T146           |    |       | R220     | 1-216-089-00 | RES, CHIP   | 47K    | 5% | 1/10W |
| Q703         | 8-729-922-62 | TRANSISTOR  | 2SD1760F5-TLQ            |    |       | R221     | 1-216-073-00 | METAL CHIP  | 10K    | 5% | 1/10W |
| Q705         | 8-729-931-02 | TRANSISTOR  | 2SC2413KQ                |    |       | R222     | 1-216-832-11 | METAL CHIP  | 8.2K   | 5% | 1/16W |
| < RESISTOR > |              |             |                          |    |       |          |              |             |        |    |       |
| R101         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R224     | 1-216-864-11 | METAL CHIP  | 0      | 5% | 1/16W |
| R102         | 1-216-097-00 | RES, CHIP   | 100K                     | 5% | 1/10W | R225     | 1-216-073-00 | METAL CHIP  | 10K    | 5% | 1/10W |
| R103         | 1-216-230-00 | RES, CHIP   | 22K                      | 5% | 1/8W  | R226     | 1-216-073-00 | METAL CHIP  | 10K    | 5% | 1/10W |
| R104         | 1-216-081-00 | METAL CHIP  | 22K                      | 5% | 1/10W | R227     | 1-216-845-11 | METAL CHIP  | 100K   | 5% | 1/16W |
| R105         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R228     | 1-216-825-11 | METAL CHIP  | 2.2K   | 5% | 1/16W |
| R106         | 1-216-081-00 | METAL CHIP  | 22K                      | 5% | 1/10W | R229     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R107         | 1-216-081-00 | METAL CHIP  | 22K                      | 5% | 1/10W | R230     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R108         | 1-216-825-11 | METAL CHIP  | 2.2K                     | 5% | 1/16W | R231     | 1-216-825-11 | METAL CHIP  | 2.2K   | 5% | 1/16W |
| R109         | 1-216-097-00 | RES, CHIP   | 100K                     | 5% | 1/10W | R232     | 1-216-845-11 | METAL CHIP  | 100K   | 5% | 1/16W |
| R110         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R233     | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/16W |
| R111         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R241     | 1-216-864-11 | METAL CHIP  | 0      | 5% | 1/16W |
| R112         | 1-216-845-11 | METAL CHIP  | 100K                     | 5% | 1/16W | R301     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R113         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R302     | 1-216-097-00 | RES, CHIP   | 100K   | 5% | 1/10W |
| R114         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R303     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R115         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R304     | 1-216-097-00 | RES, CHIP   | 100K   | 5% | 1/10W |
| R116         | 1-216-845-11 | METAL CHIP  | 100K                     | 5% | 1/16W | R305     | 1-216-029-00 | METAL CHIP  | 150    | 5% | 1/10W |
| R117         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R306     | 1-216-295-00 | SHORT       | 0      |    |       |
| R118         | 1-216-864-11 | METAL CHIP  | 0                        | 5% | 1/16W | R307     | 1-216-073-00 | METAL CHIP  | 10K    | 5% | 1/10W |
| R119         | 1-216-097-00 | RES, CHIP   | 100K                     | 5% | 1/10W | R308     | 1-216-073-00 | METAL CHIP  | 10K    | 5% | 1/10W |
| R120         | 1-216-089-00 | RES, CHIP   | 47K                      | 5% | 1/10W | R309     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R121         | 1-216-073-00 | METAL CHIP  | 10K                      | 5% | 1/10W | R310     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R122         | 1-216-832-11 | METAL CHIP  | 8.2K                     | 5% | 1/16W | R311     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R124         | 1-216-864-11 | METAL CHIP  | 0                        | 5% | 1/16W | R312     | 1-216-097-00 | RES, CHIP   | 100K   | 5% | 1/10W |
| R125         | 1-216-073-00 | METAL CHIP  | 10K                      | 5% | 1/10W | R313     | 1-216-029-00 | METAL CHIP  | 150    | 5% | 1/10W |
| R126         | 1-216-073-00 | METAL CHIP  | 10K                      | 5% | 1/10W | R314     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
| R127         | 1-216-845-11 | METAL CHIP  | 100K                     | 5% | 1/16W | R347     | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/16W |
| R128         | 1-216-825-11 | METAL CHIP  | 2.2K                     | 5% | 1/16W | R401     | 1-216-805-11 | METAL CHIP  | 47     | 5% | 1/16W |
| R129         | 1-216-833-11 | RES, CHIP   | 10K                      | 5% | 1/16W | R402     | 1-216-041-00 | METAL CHIP  | 470    | 5% | 1/10W |
| R130         | 1-216-833-11 | RES, CHIP   | 10K                      | 5% | 1/16W | R403     | 1-216-049-11 | RES, CHIP   | 1K     | 5% | 1/10W |
| R131         | 1-216-825-11 | METAL CHIP  | 2.2K                     | 5% | 1/16W | R404     | 1-216-839-11 | METAL CHIP  | 33K    | 5% | 1/16W |
| R132         | 1-216-845-11 | METAL CHIP  | 100K                     | 5% | 1/16W | R405     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R133         | 1-216-025-00 | RES, CHIP   | 100                      | 5% | 1/10W | R406     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
| R141         | 1-216-864-11 | METAL CHIP  | 0                        | 5% | 1/16W | R407     | 1-216-049-11 | RES, CHIP   | 1K     | 5% | 1/10W |
| R201         | 1-216-049-11 | RES, CHIP   | 1K                       | 5% | 1/10W | R408     | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/16W |
| R202         | 1-216-097-00 | RES, CHIP   | 100K                     | 5% | 1/10W | R409     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R203         | 1-216-230-00 | RES, CHIP   | 22K                      | 5% | 1/8W  | R410     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R204         | 1-216-081-00 | METAL CHIP  | 22K                      | 5% | 1/10W | R411     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R205         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R412     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R206         | 1-216-081-00 | METAL CHIP  | 22K                      | 5% | 1/10W | R413     | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/16W |
| R207         | 1-216-081-00 | METAL CHIP  | 22K                      | 5% | 1/10W | R414     | 1-216-817-11 | METAL CHIP  | 470    | 5% | 1/16W |
| R208         | 1-216-825-11 | METAL CHIP  | 2.2K                     | 5% | 1/16W | R415     | 1-216-817-11 | METAL CHIP  | 470    | 5% | 1/16W |
| R209         | 1-216-097-00 | RES, CHIP   | 100K                     | 5% | 1/10W | R416     | 1-216-833-11 | RES, CHIP   | 10K    | 5% | 1/16W |
| R210         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R417     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
| R211         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R418     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
| R212         | 1-216-845-11 | METAL CHIP  | 100K                     | 5% | 1/16W | R419     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
| R213         | 1-216-821-11 | METAL CHIP  | 1K                       | 5% | 1/16W | R420     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
|              |              |             |                          |    |       | R421     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
|              |              |             |                          |    |       | R422     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |
|              |              |             |                          |    |       | R423     | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/16W |

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> |      |    | <u>Remark</u>      | <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> |      |    | <u>Remark</u>      |
|-----------------|-----------------|--------------------|------|----|--------------------|-----------------|-----------------|--------------------|------|----|--------------------|
| R424            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R476            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R425            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R477            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              |
| R426            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R478            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R427            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R479            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R428            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              | R480            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R429            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R481            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R430            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R482            | 1-216-837-11    | METAL CHIP         | 22K  | 5% | 1/16W              |
| R431            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R483            | 1-216-841-11    | METAL CHIP         | 47K  | 5% | 1/16W              |
| R432            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R484            | 1-216-841-11    | METAL CHIP         | 47K  | 5% | 1/16W              |
| R433            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R485            | 1-216-065-00    | RES, CHIP          | 4.7K | 5% | 1/10W              |
| R434            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R486            | 1-216-829-11    | METAL CHIP         | 4.7K | 5% | 1/16W              |
| R435            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W<br>(AEP, UK) | R487            | 1-216-829-11    | METAL CHIP         | 4.7K | 5% | 1/16W              |
| R436            | 1-216-829-11    | METAL CHIP         | 4.7K | 5% | 1/16W              | R488            | 1-216-065-00    | RES, CHIP          | 4.7K | 5% | 1/10W              |
| R437            | 1-216-829-11    | METAL CHIP         | 4.7K | 5% | 1/16W              | R489            | 1-216-085-00    | METAL CHIP         | 33K  | 5% | 1/10W              |
| R438            | 1-216-049-11    | RES, CHIP          | 1K   | 5% | 1/10W<br>(US, GND) | R490            | 1-216-081-00    | METAL CHIP         | 22K  | 5% | 1/10W              |
| R438            | 1-216-069-00    | METAL CHIP         | 6.8K | 5% | 1/10W<br>(AEP, UK) | R491            | 1-216-837-11    | METAL CHIP         | 22K  | 5% | 1/16W              |
| R439            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R492            | 1-216-839-11    | METAL CHIP         | 33K  | 5% | 1/16W              |
| R440            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R493            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W<br>(AEP, UK) |
| R441            | 1-216-829-11    | METAL CHIP         | 4.7K | 5% | 1/16W              | R494            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W<br>(AEP, UK) |
| R442            | 1-216-049-11    | RES, CHIP          | 1K   | 5% | 1/10W              | R495            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R443            | 1-216-817-11    | METAL CHIP         | 470  | 5% | 1/16W              | R496            | 1-216-864-11    | METAL CHIP         | 0    | 5% | 1/16W              |
| R444            | 1-216-817-11    | METAL CHIP         | 470  | 5% | 1/16W              | R497            | 1-216-029-00    | METAL CHIP         | 150  | 5% | 1/10W<br>(AEP, UK) |
| R445            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R498            | 1-216-815-11    | RES, CHIP          | 330  | 5% | 1/16W<br>(AEP, UK) |
| R446            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R501            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              |
| R447            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              | R502            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              |
| R448            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R503            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              |
| R449            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R504            | 1-216-073-00    | METAL CHIP         | 10K  | 5% | 1/10W              |
| R450            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R505            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R451            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R506            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R452            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              | R507            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R453            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R508            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R454            | 1-216-817-11    | METAL CHIP         | 470  | 5% | 1/16W              | R509            | 1-216-829-11    | METAL CHIP         | 4.7K | 5% | 1/16W              |
| R455            | 1-216-817-11    | METAL CHIP         | 470  | 5% | 1/16W              | R510            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R456            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R511            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              |
| R457            | 1-216-041-00    | METAL CHIP         | 470  | 5% | 1/10W              | R513            | 1-216-089-00    | RES, CHIP          | 47K  | 5% | 1/10W              |
| R458            | 1-216-041-00    | METAL CHIP         | 470  | 5% | 1/10W              | R514            | 1-216-009-91    | RES, CHIP          | 22   | 5% | 1/10W              |
| R459            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              | R700            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              |
| R460            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R701            | 1-216-835-11    | METAL CHIP         | 15K  | 5% | 1/16W              |
| R461            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R703            | 1-216-855-11    | METAL CHIP         | 680K | 5% | 1/16W              |
| R462            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R706            | 1-216-847-11    | METAL CHIP         | 150K | 5% | 1/16W              |
| R463            | 1-216-809-11    | METAL CHIP         | 100  | 5% | 1/16W              | R710            | 1-218-273-11    | RES, CHIP          | 510K | 5% | 1/16W              |
| R464            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R711            | 1-216-847-11    | METAL CHIP         | 150K | 5% | 1/16W              |
| R465            | 1-216-809-11    | METAL CHIP         | 100  | 5% | 1/16W              | R712            | 1-216-844-11    | METAL CHIP         | 82K  | 5% | 1/16W              |
| R466            | 1-216-837-11    | METAL CHIP         | 22K  | 5% | 1/16W              | R713            | 1-216-841-11    | METAL CHIP         | 47K  | 5% | 1/16W              |
| R467            | 1-216-817-11    | METAL CHIP         | 470  | 5% | 1/16W              | R714            | 1-216-841-11    | METAL CHIP         | 47K  | 5% | 1/16W              |
| R468            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W              | R715            | 1-216-847-11    | METAL CHIP         | 150K | 5% | 1/16W              |
| R470            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R716            | 1-216-845-11    | METAL CHIP         | 100K | 5% | 1/16W              |
| R471            | 1-216-049-11    | RES, CHIP          | 1K   | 5% | 1/10W              | R718            | 1-216-041-00    | METAL CHIP         | 470  | 5% | 1/10W              |
| R472            | 1-216-839-11    | METAL CHIP         | 33K  | 5% | 1/16W              | R719            | 1-216-041-00    | METAL CHIP         | 470  | 5% | 1/10W              |
| R473            | 1-216-049-11    | RES, CHIP          | 1K   | 5% | 1/10W              | R720            | 1-216-041-00    | METAL CHIP         | 470  | 5% | 1/10W              |
| R474            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W<br>(AEP, UK) | R721            | 1-216-847-11    | METAL CHIP         | 150K | 5% | 1/16W              |
| R474            | 1-216-833-11    | RES, CHIP          | 10K  | 5% | 1/16W<br>(US, GND) | R722            | 1-216-847-11    | METAL CHIP         | 150K | 5% | 1/16W              |
| R475            | 1-216-821-11    | METAL CHIP         | 1K   | 5% | 1/16W              | R723            | 1-216-847-11    | METAL CHIP         | 150K | 5% | 1/16W              |
|                 |                 |                    |      |    |                    | R724            | 1-216-847-11    | METAL CHIP         | 150K | 5% | 1/16W              |
|                 |                 |                    |      |    |                    | R725            | 1-216-845-11    | METAL CHIP         | 100K | 5% | 1/16W              |

**MAIN**

**POWER**

| Ref. No.     | Part No.     | Description                            | Remark   |
|--------------|--------------|----------------------------------------|----------|
| R726         | 1-216-845-11 | METAL CHIP 100K                        | 5% 1/16W |
| R731         | 1-216-839-11 | METAL CHIP 33K                         | 5% 1/16W |
| R732         | 1-216-839-11 | METAL CHIP 33K                         | 5% 1/16W |
| R733         | 1-216-841-11 | METAL CHIP 47K                         | 5% 1/16W |
| R734         | 1-216-001-00 | METAL CHIP 10                          | 5% 1/10W |
| R735         | 1-216-831-11 | METAL CHIP 6.8K                        | 5% 1/16W |
| R741         | 1-216-849-11 | METAL CHIP 220K                        | 5% 1/16W |
| R742         | 1-216-847-11 | METAL CHIP 150K                        | 5% 1/16W |
| R750         | 1-216-827-11 | METAL CHIP 3.3K                        | 5% 1/16W |
| R751         | 1-216-835-11 | METAL CHIP 15K                         | 5% 1/16W |
| R752         | 1-216-839-11 | METAL CHIP 33K                         | 5% 1/16W |
| R753         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R758         | 1-216-831-11 | METAL CHIP 6.8K                        | 5% 1/16W |
| R760         | 1-216-097-00 | RES, CHIP 100K                         | 5% 1/10W |
| R762         | 1-216-853-11 | METAL CHIP 470K                        | 5% 1/16W |
| R763         | 1-216-827-11 | METAL CHIP 3.3K                        | 5% 1/16W |
| R764         | 1-216-061-00 | METAL CHIP 3.3K                        | 5% 1/10W |
| R765         | 1-216-833-11 | RES, CHIP 10K                          | 5% 1/16W |
| R766         | 1-216-857-11 | METAL CHIP 1M                          | 5% 1/16W |
| R767         | 1-216-833-11 | RES, CHIP 10K                          | 5% 1/16W |
| R768         | 1-216-849-11 | METAL CHIP 220K                        | 5% 1/16W |
| R769         | 1-216-033-00 | METAL CHIP 220                         | 5% 1/10W |
| R770         | 1-216-864-11 | METAL CHIP 0                           | 5% 1/16W |
| R771         | 1-469-125-21 | FERRITE 0uH                            |          |
| R772         | 1-216-033-00 | METAL CHIP 220                         | 5% 1/10W |
| R774         | 1-216-833-11 | RES, CHIP 10K                          | 5% 1/16W |
| R775         | 1-216-817-11 | METAL CHIP 470                         | 5% 1/16W |
| R776         | 1-216-073-00 | METAL CHIP 10K                         | 5% 1/10W |
| R777         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R778         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R780         | 1-216-864-11 | METAL CHIP 0                           | 5% 1/16W |
| R781         | 1-216-073-00 | METAL CHIP 10K                         | 5% 1/10W |
| R784         | 1-216-089-00 | RES, CHIP 47K                          | 5% 1/10W |
| R787         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R788         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R789         | 1-216-809-11 | METAL CHIP 100                         | 5% 1/16W |
| R790         | 1-216-049-11 | RES, CHIP 1K                           | 5% 1/10W |
| R791         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R792         | 1-216-809-11 | METAL CHIP 100                         | 5% 1/16W |
| R793         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R794         | 1-216-817-11 | METAL CHIP 470                         | 5% 1/16W |
| R795         | 1-216-813-11 | METAL CHIP 220                         | 5% 1/16W |
| R796         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R797         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R798         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| R799         | 1-216-821-11 | METAL CHIP 1K                          | 5% 1/16W |
| < VIBRATOR > |              |                                        |          |
| X401         | 1-781-050-11 | VIBRATOR, CERAMIC (8MHz)               |          |
| X402         | 1-767-697-11 | VIBRATOR, CRYSTAL (32.768kHz)          |          |
| X403         | 1-760-556-11 | VIBRATOR, CRYSTAL (4.332MHz) (AEP, UK) |          |
| X701         | 1-781-462-21 | VIBRATOR, CRYSTAL (33.8688MHz)         |          |

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- \* A-3321-995-A POWER BOARD, COMPLETE (US, CND)
- \* A-3322-152-A POWER BOARD, COMPLETE (AEP, UK)

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| Ref. No.      | Part No.     | Description                                  | Remark            |
|---------------|--------------|----------------------------------------------|-------------------|
| 1-533-233-31  | HOLDER, FUSE |                                              |                   |
| < CAPACITOR > |              |                                              |                   |
| C901          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V           |
| C902          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V           |
| C903          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V           |
| C904          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V           |
| C905          | 1-127-888-21 | CERAMIC 0.1uF                                | 10% 50V (AEP, UK) |
| C905          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V (US, CND) |
| C906          | 1-127-888-21 | CERAMIC 0.1uF                                | 10% 50V (AEP, UK) |
| C906          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V (US, CND) |
| C907          | 1-127-888-21 | CERAMIC 0.1uF                                | 10% 50V (AEP, UK) |
| C907          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V (US, CND) |
| C908          | 1-127-888-21 | CERAMIC 0.1uF                                | 10% 50V (AEP, UK) |
| C908          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V (US, CND) |
| C909          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V           |
| C910          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V           |
| C911          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V           |
| C912          | 1-127-880-21 | CERAMIC 0.022uF                              | 10% 50V           |
| C913          | 1-127-876-21 | CERAMIC 0.01uF                               | 10% 50V           |
| C914          | 1-127-876-21 | CERAMIC 0.01uF                               | 10% 50V           |
| C915          | 1-127-876-21 | CERAMIC 0.01uF                               | 10% 50V           |
| C916          | 1-124-902-00 | ELECT 0.47uF                                 | 20% 50V           |
| < CONNECTOR > |              |                                              |                   |
| * CN901       | 1-564-507-11 | PLUG, CONNECTOR 4P                           |                   |
| * CN902       | 1-691-580-11 | PIN, CONNECTOR (PC BOARD) 9P                 |                   |
| * CN903       | 1-793-660-11 | PIN, CONNECTOR (PC BOARD) 3P                 |                   |
| < DIODE >     |              |                                              |                   |
| D901          | 8-719-302-38 | DIODE RBV-602-01                             |                   |
| D902          | 8-719-025-03 | DIODE RBA-402-SL                             |                   |
| D903          | 8-719-991-33 | DIODE 1SS133T-77                             |                   |
| D904          | 8-719-991-33 | DIODE 1SS133T-77                             |                   |
| D905          | 8-719-970-02 | DIODE 1SR139-400                             |                   |
| D906          | 8-719-970-02 | DIODE 1SR139-400                             |                   |
| D907          | 8-719-970-02 | DIODE 1SR139-400                             |                   |
| D908          | 8-719-970-02 | DIODE 1SR139-400                             |                   |
| < FUSE >      |              |                                              |                   |
| △ F901        | 1-532-501-51 | FUSE (T800mA/250V) (AEP, UK)                 |                   |
| △ F901        | 1-576-101-11 | FUSE (1.25A/250V) (US, CND)                  |                   |
| △ F902        | 1-532-506-51 | FUSE (T6.3A/250V) (AEP, UK)                  |                   |
| △ F902        | 1-533-622-11 | FUSE, GLASS CYLINDRICAL (10A/250V) (US, CND) |                   |
| △ F903        | 1-532-389-51 | FUSE (T500mA/250V) (AEP, UK)                 |                   |
| △ F903        | 1-576-099-11 | FUSE (0.8A/250V) (US, CND)                   |                   |
| △ F904        | 1-532-465-51 | FUSE, TIME LAG (T3.15A/125V) (AEP, UK)       |                   |
| △ F904        | 1-576-108-11 | FUSE (4A/125V) (US, CND)                     |                   |
| △ F905        | 1-533-910-41 | FUSE, MICRO (5A/125V) (US)                   |                   |

|                                                                                                                                  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

## POWER

## POWER AMP

## SW

## SW (FRONT)

| Ref. No. | Part No.     | Description                              | Remark                    | Ref. No.       | Part No.                   | Description                                                     | Remark               |
|----------|--------------|------------------------------------------|---------------------------|----------------|----------------------------|-----------------------------------------------------------------|----------------------|
|          |              | < RESISTOR >                             |                           |                |                            | < JACK >                                                        |                      |
| R901     | 1-249-429-11 | CARBON                                   | 10K 5% 1/4W               | J391           | 1-770-612-12               | JACK, PIN 2P (SIGNAL INPUT)                                     |                      |
| R902     | 1-249-421-11 | CARBON                                   | 2.2K 5% 1/4W              | * J392         | 1-537-405-11               | TERMINAL BOARD (2P SP) (SPEAKER OUTPUT, R-CH, IMPEDANCE USE 4Ω) |                      |
| R903     | 1-202-725-00 | SOLID                                    | 3.3M 10% 1/2W (US, CND)   |                |                            | < TRANSISTOR >                                                  |                      |
|          |              | < TRANSFORMER >                          |                           | Q391           | 8-729-037-34               | TRANSISTOR                                                      | KRA107M              |
| △ T901   | 1-435-063-11 | TRANSFORMER, POWER (AEP, UK)             |                           | Q392           | 8-729-036-77               | TRANSISTOR                                                      | KRC107M              |
| △ T901   | 1-433-881-11 | TRANSFORMER, POWER (US, CND)             |                           |                |                            | < RESISTOR >                                                    |                      |
| △ T902   | 1-402-663-11 | TRANSFORMER, LINE FILTER (LFT)           |                           | R191           | 1-249-425-11               | CARBON                                                          | 4.7K 5% 1/4W         |
| *****    |              |                                          |                           |                |                            |                                                                 |                      |
| *        | A-3323-217-A | POWER AMP BOARD, COMPLETE (US, CND)      |                           | R192           | 1-247-843-11               | CARBON                                                          | 3.3K 5% 1/4W         |
| *        | A-3323-354-A | POWER AMP BOARD, COMPLETE (AEP, UK)      |                           | △ R193         | 1-249-385-11               | CARBON                                                          | 2.2 5% 1/6W F        |
|          |              | *****                                    |                           | △ R194         | 1-249-385-11               | CARBON                                                          | 2.2 5% 1/6W F        |
|          |              | (Including POWER AMP (A, B, C, D) board) |                           | R291           | 1-249-425-11               | CARBON                                                          | 4.7K 5% 1/4W         |
|          |              | < CAPACITOR >                            |                           | R292           | 1-247-843-11               | CARBON                                                          | 3.3K 5% 1/4W         |
| C191     | 1-162-282-31 | CERAMIC                                  | 100PF 10% 50V (US, CND)   | △ R293         | 1-249-385-11               | CARBON                                                          | 2.2 5% 1/6W F        |
| C191     | 1-162-294-31 | CERAMIC                                  | 0.001uF 10% 50V (AEP, UK) | △ R294         | 1-249-385-11               | CARBON                                                          | 2.2 5% 1/6W F        |
| C192     | 1-126-960-11 | ELECT                                    | 1uF 20% 50V               | R391           | 1-249-429-11               | CARBON                                                          | 10K 5% 1/4W          |
| C193     | 1-162-294-31 | CERAMIC                                  | 0.001uF 10% 50V           | R392           | 1-247-863-91               | CARBON                                                          | 22K 5% 1/4W          |
| C194     | 1-136-173-00 | FILM                                     | 0.47uF 5% 50V             | R393           | 1-249-417-11               | CARBON                                                          | 1K 5% 1/4W (US, CND) |
| C195     | 1-136-173-00 | FILM                                     | 0.47uF 5% 50V             | R394           | 1-249-417-11               | CARBON                                                          | 1K 5% 1/4W           |
| C291     | 1-162-282-31 | CERAMIC                                  | 100PF 10% 50V (US, CND)   | *****          |                            |                                                                 |                      |
| C291     | 1-162-294-31 | CERAMIC                                  | 0.001uF 10% 50V (AEP, UK) | * 1-671-115-21 | SW BOARD                   | *****                                                           |                      |
| C292     | 1-126-960-11 | ELECT                                    | 1uF 20% 50V               |                | < CONNECTOR >              |                                                                 |                      |
| C293     | 1-162-294-31 | CERAMIC                                  | 0.001uF 10% 50V           | * CN601        | 1-506-486-11               | PIN, CONNECTOR 7P                                               |                      |
| C294     | 1-136-173-00 | FILM                                     | 0.47uF 5% 50V             |                | < SWITCH >                 |                                                                 |                      |
| C295     | 1-136-173-00 | FILM                                     | 0.47uF 5% 50V             | S601           | 1-572-126-21               | SWITCH, PUSH (1 KEY) (REC POSITION)                             |                      |
| C391     | 1-161-494-00 | CERAMIC                                  | 0.022uF 25V               | S602           | 1-572-126-21               | SWITCH, PUSH (1 KEY) (PACK OUT)                                 |                      |
| C392     | 1-126-966-11 | ELECT                                    | 33uF 20% 16V              | S604           | 1-771-264-11               | SWITCH, PUSH (DETECTION) (1 KEY) (PLAY POSITION)                |                      |
| C393     | 1-126-964-11 | ELECT                                    | 10uF 20% 50V              | *****          |                            |                                                                 |                      |
| C394     | 1-117-207-11 | ELECT (BLOCK)                            | 6800uF 20% 25V            | * A-3323-216-A | SW (FRONT) BOARD, COMPLETE | *****                                                           |                      |
| C395     | 1-136-165-00 | FILM                                     | 0.1uF 5% 50V              |                | < CAPACITOR >              |                                                                 |                      |
|          |              | < CONNECTOR >                            |                           | C553           | 1-163-038-00               | CERAMIC CHIP                                                    | 0.1uF 25V            |
| * CN391  | 1-564-507-11 | PLUG, CONNECTOR 4P                       |                           | C554           | 1-163-038-00               | CERAMIC CHIP                                                    | 0.1uF 25V            |
| * CN392  | 1-580-154-11 | PIN, CONNECTOR (PC BOARD) 2P             |                           | C555           | 1-163-038-00               | CERAMIC CHIP                                                    | 0.1uF 25V            |
| CN393    | 1-506-986-11 | PIN, CONNECTOR (PC BOARD) 4P             |                           | C556           | 1-163-038-00               | CERAMIC CHIP                                                    | 0.1uF 25V            |
| * CN395  | 1-580-154-11 | PIN, CONNECTOR (PC BOARD) 2P             |                           | C557           | 1-163-021-11               | CERAMIC CHIP                                                    | 0.01uF 10% 50V       |
|          |              | < DIODE >                                |                           | C558           | 1-124-259-11               | ELECT                                                           | 4.7uF 20% 16V        |
| D391     | 8-719-991-33 | DIODE 1SS133T-77                         |                           | C574           | 1-163-038-00               | CERAMIC CHIP                                                    | 0.1uF 25V            |
|          |              | < IC >                                   |                           |                | < CONNECTOR >              |                                                                 |                      |
| IC391    | 8-759-538-94 | IC LA4663                                |                           | CN551          | 1-691-071-31               | HOUSING, CONNECTOR 12P                                          |                      |
|          |              | < COIL >                                 |                           |                | < LED >                    |                                                                 |                      |
| L191     | 1-410-515-11 | INDUCTOR, MICRO                          | 33uH (AEP, UK)            | D553           | 8-719-946-49               | LED SLC22MG3F (AMS/PRESET)                                      |                      |
| L291     | 1-410-515-11 | INDUCTOR, MICRO                          | 33uH (AEP, UK)            |                |                            |                                                                 |                      |
| L391     | 1-410-397-21 | FERRITE                                  | 1.1uH (AEP, UK)           |                |                            |                                                                 |                      |

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



**SW (FRONT)**

**SW (TOP)**

| Ref. No. | Part No.     | Description                                 | Remark |
|----------|--------------|---------------------------------------------|--------|
| D554     | 8-719-946-49 | LED SLC22MG3F (SELECT)                      |        |
| D555     | 8-719-059-97 | LED L-34HD (HIGH SPEED)                     |        |
|          |              | < IC >                                      |        |
| IC550    | 8-759-459-85 | IC NJL63H400A                               |        |
|          |              | < SHORT >                                   |        |
| JC551    | 1-216-295-00 | SHORT 0                                     |        |
|          |              | < TRANSISTOR >                              |        |
| Q553     | 8-729-027-58 | TRANSISTOR DTC143ZKA-T146                   |        |
| Q554     | 8-729-027-58 | TRANSISTOR DTC143ZKA-T146                   |        |
| Q555     | 8-729-027-58 | TRANSISTOR DTC143ZKA-T146                   |        |
|          |              | < RESISTOR >                                |        |
| R551     | 1-216-033-00 | METAL CHIP 220 5% 1/10W                     |        |
| R552     | 1-216-079-00 | METAL CHIP 18K 5% 1/10W                     |        |
| R558     | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W                    |        |
| R559     | 1-216-061-00 | METAL CHIP 3.3K 5% 1/10W                    |        |
| R560     | 1-216-056-00 | RES, CHIP 2K 5% 1/10W                       |        |
| R561     | 1-216-051-00 | METAL CHIP 1.2K 5% 1/10W                    |        |
| R562     | 1-216-048-00 | METAL CHIP 910 5% 1/10W                     |        |
| R563     | 1-216-045-00 | METAL CHIP 680 5% 1/10W                     |        |
| R564     | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W                    |        |
| R565     | 1-216-061-00 | METAL CHIP 3.3K 5% 1/10W                    |        |
| R566     | 1-216-056-00 | RES, CHIP 2K 5% 1/10W                       |        |
| R567     | 1-216-051-00 | METAL CHIP 1.2K 5% 1/10W                    |        |
| R568     | 1-216-048-00 | METAL CHIP 910 5% 1/10W                     |        |
| R569     | 1-216-045-00 | METAL CHIP 680 5% 1/10W                     |        |
| R570     | 1-216-045-00 | METAL CHIP 680 5% 1/10W                     |        |
| R571     | 1-216-048-00 | METAL CHIP 910 5% 1/10W                     |        |
| R572     | 1-216-051-00 | METAL CHIP 1.2K 5% 1/10W                    |        |
| R573     | 1-216-056-00 | RES, CHIP 2K 5% 1/10W                       |        |
| R574     | 1-216-061-00 | METAL CHIP 3.3K 5% 1/10W                    |        |
| R575     | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W                    |        |
| R579     | 1-216-085-00 | METAL CHIP 33K 5% 1/10W                     |        |
| R585     | 1-216-079-00 | METAL CHIP 18K 5% 1/10W                     |        |
| R586     | 1-216-045-00 | METAL CHIP 680 5% 1/10W                     |        |
|          |              | < SWITCH >                                  |        |
| S556     | 1-475-977-11 | SWITCH, ROTARY (JOG DIAL)                   |        |
| S557     | 1-762-798-11 | SWITCH, KEYBOARD (DELETE)                   |        |
| S558     | 1-762-798-11 | SWITCH, KEYBOARD (TUNE, ⇐ - ◀)              |        |
| S559     | 1-762-798-11 | SWITCH, KEYBOARD (NO, CANCEL)               |        |
| S560     | 1-762-798-11 | SWITCH, KEYBOARD (EDIT)                     |        |
| S561     | 1-762-798-11 | SWITCH, KEYBOARD (YES, ENTER)               |        |
| S562     | 1-762-798-11 | SWITCH, KEYBOARD (DEIPLAY)                  |        |
| S563     | 1-762-798-11 | SWITCH, KEYBOARD (TUNE, + ⇒ ▶▶)             |        |
| S564     | 1-762-798-11 | SWITCH, KEYBOARD (INSERT)                   |        |
| S565     | 1-762-798-11 | SWITCH, KEYBOARD (VOL +)                    |        |
| S566     | 1-762-798-11 | SWITCH, KEYBOARD (VOL -)                    |        |
| S567     | 1-762-798-11 | SWITCH, KEYBOARD (BASS/TREBLE)              |        |
| S568     | 1-762-798-11 | SWITCH, KEYBOARD (MEGA BASS)                |        |
| S569     | 1-762-798-11 | SWITCH, KEYBOARD (MD EJECT ▲)               |        |
| S570     | 1-762-798-11 | SWITCH, KEYBOARD (MONO/ST, REPEAT)          |        |
| S571     | 1-762-798-11 | SWITCH, KEYBOARD<br>(AUTO PRESET, SHUF/PGM) |        |

| Ref. No. | Part No.     | Description                                | Remark |
|----------|--------------|--------------------------------------------|--------|
| S572     | 1-762-798-11 | SWITCH, KEYBOARD (POWER)                   |        |
| S573     | 1-762-798-11 | SWITCH, KEYBOARD (SLEEP)                   |        |
| S574     | 1-762-798-11 | SWITCH, KEYBOARD (STANDBY)                 |        |
| S575     | 1-762-798-11 | SWITCH, KEYBOARD<br>(SYNCHRO REC, CD ▶ MD) |        |
| S576     | 1-762-798-11 | SWITCH, KEYBOARD (REC IT, TO TOP)          |        |
| S577     | 1-762-798-11 | SWITCH, KEYBOARD (REC IT, TO END)          |        |
| S578     | 1-762-798-11 | SWITCH, KEYBOARD (REC)                     |        |
| S580     | 1-762-798-11 | SWITCH, KEYBOARD (HIGH SPEED)              |        |
| *****    |              |                                            |        |
| *        | A-3321-990-A | SW (TOP) BOARD, COMPLETE                   |        |
| *****    |              |                                            |        |
|          |              | < CAPACITOR >                              |        |
| C550     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10% 50V                |        |
| C551     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10% 50V                |        |
| C552     | 1-163-021-11 | CERAMIC CHIP 0.01uF 10% 50V                |        |
|          |              | < CONNECTOR >                              |        |
| CN550    | 1-691-067-31 | HOUSING, CONNECTOR 8P                      |        |
|          |              | < LED >                                    |        |
| D550     | 8-719-047-57 | LED SLA-362MT3F-A47 (▷▶, MD)               |        |
| D551     | 8-719-047-57 | LED SLA-362MT3F-A47 (▷▶, CD)               |        |
| D552     | 8-719-047-57 | LED SLA-362MT3F-A47 (BAND, RADIO)          |        |
|          |              | < PILOT LAMP >                             |        |
| PL550    | 1-517-848-11 | LAMP, PILOT (CD DISC ILLUMINATION)         |        |
|          |              | < TRANSISTOR >                             |        |
| Q550     | 8-729-027-58 | TRANSISTOR DTC143ZKA-T146                  |        |
| Q551     | 8-729-027-58 | TRANSISTOR DTC143ZKA-T146                  |        |
| Q552     | 8-729-027-58 | TRANSISTOR DTC143ZKA-T146                  |        |
|          |              | < RESISTOR >                               |        |
| R550     | 1-216-029-00 | METAL CHIP 150 5% 1/10W                    |        |
| R553     | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W                   |        |
| R554     | 1-216-210-00 | RES, CHIP 3.3K 5% 1/8W                     |        |
| R555     | 1-216-205-11 | RES, CHIP 2K 5% 1/8W                       |        |
| R556     | 1-216-051-00 | METAL CHIP 1.2K 5% 1/10W                   |        |
| R557     | 1-216-048-00 | METAL CHIP 910 5% 1/10W                    |        |
| R578     | 1-216-045-00 | METAL CHIP 680 5% 1/10W                    |        |
|          |              | < SWITCH >                                 |        |
| S550     | 1-762-798-11 | SWITCH, KEYBOARD (□ (MD) )                 |        |
| S551     | 1-762-798-11 | SWITCH, KEYBOARD (▷▶, MD)                  |        |
| S552     | 1-762-798-11 | SWITCH, KEYBOARD (BAND, RADIO)             |        |
| S553     | 1-762-798-11 | SWITCH, KEYBOARD (▷▶, CD)                  |        |
| S554     | 1-762-798-11 | SWITCH, KEYBOARD (□ (CD) )                 |        |
| S555     | 1-762-798-11 | SWITCH, KEYBOARD (CD OPEN/CLOSE, ▲)        |        |
| S579     | 1-762-798-11 | SWITCH, KEYBOARD (LINE/LINE LEVEL)         |        |
| *****    |              |                                            |        |

| Ref. No. | Part No.     | Description                  | Remark        | Ref. No. | Part No.     | Description              | Remark         |
|----------|--------------|------------------------------|---------------|----------|--------------|--------------------------|----------------|
| *        | A-3323-212-A | TU BOARD, COMPLETE (US, CND) |               | C36      | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V            |
| *        | A-3323-274-A | TU BOARD, COMPLETE (AEP, UK) |               | C37      | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V            |
|          |              | *****                        |               | C38      | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%  | 25V (AEP, UK)  |
|          |              | < CAPACITOR >                |               |          |              |                          |                |
| C1       | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%      | 50V (US, CND) | C39      | 1-163-009-11 | CERAMIC CHIP 0.001uF 10% | 50V            |
| C3       | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%      | 50V (US, CND) | C40      | 1-163-133-00 | CERAMIC CHIP 470PF 5%    | 50V            |
| C5       | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%      | 50V (US, CND) | C41      | 1-163-133-00 | CERAMIC CHIP 470PF 5%    | 50V            |
| C6       | 1-163-009-11 | CERAMIC CHIP 0.001uF 10%     | 50V (US, CND) | C42      | 1-126-160-11 | ELECT 1uF 20%            | 50V            |
| C7       | 1-163-233-11 | CERAMIC CHIP 18PF 5%         | 50V (US, CND) | C43      | 1-126-160-11 | ELECT 1uF 20%            | 50V            |
| C8       | 1-163-163-00 | CERAMIC CHIP 18PF 5%         | 50V (US, CND) | C45      | 1-124-635-00 | ELECT 220uF 20%          | 6.3V (AEP, UK) |
| C9       | 1-163-131-00 | CERAMIC CHIP 390PF 5%        | 50V (US, CND) | C46      | 1-126-795-11 | ELECT 10uF 20%           | 50V            |
| C9       | 1-163-132-00 | CERAMIC CHIP 430PF 5%        | 50V (AEP, UK) | C48      | 1-109-982-11 | CERAMIC CHIP 1uF 10%     | 10V            |
| C10      | 1-163-037-11 | CERAMIC CHIP 0.022uF 10%     | 25V           | C49      | 1-109-982-11 | CERAMIC CHIP 1uF 10%     | 10V (US, CND)  |
| C12      | 1-165-319-11 | CERAMIC CHIP 0.1uF           | 50V (US, CND) | C50      | 1-163-009-11 | CERAMIC CHIP 0.001uF 10% | 50V            |
| C13      | 1-163-011-11 | CERAMIC CHIP 0.0015uF 10%    | 50V           | C51      | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V            |
| C14      | 1-126-960-11 | ELECT 1uF 20%                | 50V           | C52      | 1-163-009-11 | CERAMIC CHIP 0.001uF 10% | 50V            |
| C15      | 1-126-963-11 | ELECT 4.7uF 20%              | 50V           | C53      | 1-163-009-11 | CERAMIC CHIP 0.001uF 10% | 50V            |
| C16      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%      | 50V           | C55      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V (AEP, UK)  |
| C17      | 1-126-382-11 | ELECT 100uF 20%              | 10V           | C56      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V (AEP, UK)  |
| C18      | 1-163-989-11 | CERAMIC CHIP 0.033uF 10%     | 25V           | C57      | 1-126-934-11 | ELECT 220uF 20%          | 10V (AEP, UK)  |
| C19      | 1-163-989-11 | CERAMIC CHIP 0.033uF 10%     | 25V           | C58      | 1-107-826-11 | CERAMIC CHIP 0.1uF 10%   | 16V (AEP, UK)  |
| C20      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%      | 50V           | C60      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V (AEP, UK)  |
| C21      | 1-126-960-11 | ELECT 1uF 20%                | 50V           | C61      | 1-163-130-00 | CERAMIC CHIP 360PF 5%    | 50V (AEP, UK)  |
| C22      | 1-163-003-11 | CERAMIC CHIP 330PF 10%       | 50V (US, CND) | C62      | 1-163-116-00 | CERAMIC CHIP 91PF 5%     | 50V (AEP, UK)  |
| C22      | 1-163-263-11 | CERAMIC CHIP 330PF 5%        | 50V (AEP, UK) | C63      | 1-163-227-11 | CERAMIC CHIP 10PF 0.5PF  | 50V (AEP, UK)  |
| C23      | 1-126-160-11 | ELECT 1uF 20%                | 50V           | C64      | 1-109-982-11 | CERAMIC CHIP 1uF 10%     | 10V (AEP, UK)  |
| C24      | 1-164-004-11 | CERAMIC CHIP 0.1uF 10%       | 25V (AEP, UK) | C64      | 1-216-295-00 | SHORT 0 (US, CND)        |                |
| C24      | 1-165-319-11 | CERAMIC CHIP 0.1uF           | 50V (US, CND) | C65      | 1-109-982-11 | CERAMIC CHIP 1uF 10%     | 10V (AEP, UK)  |
| C25      | 1-164-004-11 | CERAMIC CHIP 0.1uF 10%       | 25V (AEP, UK) | C66      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V (AEP, UK)  |
| C25      | 1-165-319-11 | CERAMIC CHIP 0.1uF           | 50V (US, CND) | C67      | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%  | 25V            |
| C27      | 1-164-004-11 | CERAMIC CHIP 0.1uF 10%       | 25V (AEP, UK) | C68      | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%  | 25V            |
| C27      | 1-165-319-11 | CERAMIC CHIP 0.1uF           | 50V (US, CND) | C69      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V            |
| C28      | 1-163-009-11 | CERAMIC CHIP 0.001uF 10%     | 50V           | C70      | 1-163-009-11 | CERAMIC CHIP 0.001uF 10% | 50V (US, CND)  |
| C29      | 1-163-009-11 | CERAMIC CHIP 0.001uF 10%     | 50V           | C70      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V (AEP, UK)  |
| C30      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%      | 50V           | C71      | 1-163-263-11 | CERAMIC CHIP 330PF 5%    | 50V (AEP, UK)  |
| C31      | 1-163-227-11 | CERAMIC CHIP 10PF 0.5PF      | 50V           | C72      | 1-163-133-00 | CERAMIC CHIP 470PF 5%    | 50V (AEP, UK)  |
| C32      | 1-163-227-11 | CERAMIC CHIP 10PF 0.5PF      | 50V           | C74      | 1-163-009-11 | CERAMIC CHIP 0.001uF 10% | 50V (AEP, UK)  |
| C33      | 1-136-171-00 | FILM 0.33uF 5%               | 50V (US, CND) | C75      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V            |
| C33      | 1-137-194-81 | FILM 0.47uF 5%               | 50V (AEP, UK) | C76      | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%  | 25V (AEP, UK)  |
| C34      | 1-124-635-00 | ELECT 220uF 20%              | 6.3V          | C77      | 1-163-021-11 | CERAMIC CHIP 0.01uF 10%  | 50V (AEP, UK)  |
| C35      | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%      | 25V           |          |              |                          |                |

| Ref. No. | Part No.     | Description                     | Remark        | Ref. No. | Part No.     | Description                         | Remark          |
|----------|--------------|---------------------------------|---------------|----------|--------------|-------------------------------------|-----------------|
| C78      | 1-163-009-11 | CERAMIC CHIP 0.001uF 10%        | 50V (AEP, UK) | JC7      | 1-216-864-11 | METAL CHIP 0 5%                     | 1/16W (US, CND) |
|          |              | < FILTER >                      |               | JC8      | 1-216-295-00 | SHORT 0                             |                 |
| CF1      | 1-781-407-11 | FILTER, CERAMIC (AEP, UK)       |               | JC9      | 1-216-295-00 | SHORT 0                             |                 |
| CF1      | 1-567-390-11 | FILTER, CERAMIC 10.7M (US, CND) |               | JC10     | 1-216-295-00 | SHORT 0                             |                 |
| CF2      | 1-781-407-11 | FILTER, CERAMIC (AEP, UK)       |               | JC11     | 1-216-295-00 | SHORT 0                             |                 |
| CF2      | 1-567-390-11 | FILTER, CERAMIC 10.7M (US, CND) |               | JC12     | 1-216-295-00 | SHORT 0                             |                 |
| CF3      | 1-781-171-11 | DISCRIMINATOR, CERAMIC          |               | JC13     | 1-216-295-00 | SHORT 0                             |                 |
| CF4      | 1-781-344-11 | FILTER, AM CERAMIC              |               | JC14     | 1-216-864-11 | METAL CHIP 0 5%                     | 1/16W (AEP, UK) |
|          |              | < CONNECTOR >                   |               | JC15     | 1-216-041-00 | METAL CHIP 470 5%                   | 1/10W (AEP, UK) |
| * CN1    | 1-793-135-11 | PIN, CONNECTOR (PC BOARD) 14P   |               | JC15     | 1-216-295-00 | SHORT 0 (US, CND)                   |                 |
|          |              | < TRIMMER >                     |               | JC17     | 1-216-295-00 | SHORT 0                             |                 |
| CT1      | 1-141-603-11 | CAP, ADJ (US, CND)              |               | JC18     | 1-216-295-00 | SHORT 0                             |                 |
| CT2      | 1-141-603-11 | CAP, ADJ (AEP, UK)              |               | JC19     | 1-216-295-00 | SHORT 0 (AEP, UK)                   |                 |
| CT2      | 1-141-601-11 | CAP, ADJ (US, CND)              |               | JC20     | 1-216-295-00 | SHORT 0                             |                 |
| CT3      | 1-141-605-11 | CAP, ADJ (AEP, UK)              |               | JC21     | 1-216-295-00 | SHORT 0                             |                 |
| CT4      | 1-141-603-11 | CAP, ADJ (AEP, UK)              |               | JC24     | 1-216-295-00 | SHORT 0 (AEP, UK)                   |                 |
| CT5      | 1-141-605-11 | CAP, ADJ (AEP, UK)              |               | JC25     | 1-216-295-00 | SHORT 0 (AEP, UK)                   |                 |
|          |              | < DIODE/SHORT >                 |               | JC26     | 1-216-295-00 | SHORT 0 (AEP, UK)                   |                 |
| D1       | 8-719-988-61 | DIODE 1SS355TE-17 (US, CND)     |               |          |              | < COIL >                            |                 |
| D2       | 8-719-988-61 | DIODE 1SS355TE-17 (US, CND)     |               | L1       | 1-406-994-41 | COIL, FM RF (US, CND)               |                 |
| D3       | 8-719-988-61 | DIODE 1SS355TE-17               |               | L2       | 1-409-905-31 | COIL, FM RF (US, CND)               |                 |
| D4       | 8-719-988-61 | DIODE 1SS355TE-17               |               | L3       | 1-416-991-11 | COIL, AM ANT                        |                 |
| D5       | 8-719-988-61 | DIODE 1SS355TE-17               |               | L4       | 1-411-959-11 | COIL, AM OSC                        |                 |
| D6       | 8-719-988-61 | DIODE 1SS355TE-17               |               | L5       | 1-416-129-11 | COIL, LW ANT (AEP, UK)              |                 |
| D7       | 8-719-055-86 | DIODE KV1470TL1-3 (US, CND)     |               | L6       | 1-412-006-31 | CHIP INDUCTOR 10uH (AEP, UK)        |                 |
| D8       | 8-719-055-86 | DIODE KV1470TL1-3 (US, CND)     |               |          |              | < TRANSISTOR >                      |                 |
| D9       | 8-719-076-70 | DIODE KV1520TL00                |               | Q1       | 8-729-920-31 | TRANSISTOR DTC343TK (AEP, UK)       |                 |
| D11      | 8-719-988-61 | DIODE 1SS355TE-17 (US, CND)     |               | Q1       | 1-801-806-11 | TRANSISTOR DTC144EKA-T146 (US, CND) |                 |
| D12      | 8-719-988-61 | DIODE 1SS355TE-17               |               | Q2       | 8-729-904-07 | TRANSISTOR FMG2                     |                 |
| D13      | 8-719-988-61 | DIODE 1SS355TE-17               |               | Q3       | 1-801-806-11 | TRANSISTOR DTC144EKA-T146           |                 |
| D14      | 8-719-988-61 | DIODE 1SS355TE-17               |               | Q4       | 8-729-920-31 | TRANSISTOR DTC343TK                 |                 |
| D17      | 8-719-988-61 | DIODE 1SS355TE-17               |               | Q5       | 8-729-920-31 | TRANSISTOR DTC343TK                 |                 |
| D18      | 8-719-988-61 | DIODE 1SS355TE-17               |               | Q6       | 8-729-920-41 | TRANSISTOR FMC3                     |                 |
| D19      | 1-216-295-00 | SHORT 0 (AEP, UK)               |               | Q7       | 8-729-920-31 | TRANSISTOR DTC343TK                 |                 |
| D19      | 8-719-988-61 | DIODE 1SS355TE-17 (US, CND)     |               | Q8       | 8-729-920-31 | TRANSISTOR DTC343TK (AEP, UK)       |                 |
| D20      | 1-216-295-00 | SHORT 0 (AEP, UK)               |               | Q9       | 8-729-920-38 | TRANSISTOR 2SC2059K-N (AEP, UK)     |                 |
| D20      | 8-719-988-61 | DIODE 1SS355TE-17 (US, CND)     |               | Q10      | 8-729-931-02 | TRANSISTOR 2SC2413KQ (AEP, UK)      |                 |
| D21      | 8-719-988-61 | DIODE 1SS355TE-17               |               | Q11      | 8-729-931-02 | TRANSISTOR 2SC2413KQ (AEP, UK)      |                 |
|          |              | < FILTER >                      |               | Q12      | 8-729-039-73 | TRANSISTOR FMA5A-T148 (AEP, UK)     |                 |
| FL1      | 1-236-711-21 | FILTER, BAND PASS (US, CND)     |               | Q13      | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 (AEP, UK) |                 |
|          |              | < IC >                          |               | Q14      | 8-729-931-02 | TRANSISTOR 2SC2413KQ                |                 |
| IC1      | 8-759-549-84 | IC TA2104AN                     |               | Q15      | 8-729-119-32 | FET 2SK193 (AEP, UK)                |                 |
| IC2      | 8-759-483-40 | IC LC72137M-TLM                 |               |          |              | < RESISTOR >                        |                 |
|          |              | < RESISTOR >                    |               | R1       | 1-216-097-00 | RES, CHIP 100K 5%                   | 1/10W (US, CND) |
| JC1      | 1-216-295-00 | SHORT 0 (US, CND)               |               | R2       | 1-216-105-00 | RES, CHIP 220K 5%                   | 1/10W (US, CND) |
| JC2      | 1-216-295-00 | SHORT 0 (US, CND)               |               | R3       | 1-216-061-00 | METAL CHIP 3.3K 5%                  | 1/10W (US, CND) |
| JC3      | 1-216-295-00 | SHORT 0 (US, CND)               |               | R4       | 1-216-077-91 | RES, CHIP 15K 5%                    | 1/10W (US, CND) |
| JC4      | 1-216-295-00 | SHORT 0 (US, CND)               |               |          |              |                                     |                 |
| JC5      | 1-216-295-00 | SHORT 0 (US, CND)               |               |          |              |                                     |                 |

| Ref. No. | Part No.     | Description | Remark                  | Ref. No.       | Part No.              | Description                        | Remark                  |
|----------|--------------|-------------|-------------------------|----------------|-----------------------|------------------------------------|-------------------------|
| R5       | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W (AEP, UK)  | R47            | 1-216-049-11          | RES, CHIP                          | 1K 5% 1/10W (AEP, UK)   |
| R5       | 1-216-089-00 | RES, CHIP   | 47K 5% 1/10W (US, CND)  | R49            | 1-216-849-11          | METAL CHIP                         | 220K 5% 1/16W (AEP, UK) |
| R6       | 1-216-097-00 | RES, CHIP   | 100K 5% 1/10W           | R52            | 1-216-825-11          | METAL CHIP                         | 2.2K 5% 1/16W (AEP, UK) |
| R7       | 1-216-013-00 | METAL CHIP  | 33 5% 1/10W (US, CND)   | R54            | 1-216-065-00          | RES, CHIP                          | 4.7K 5% 1/10W (AEP, UK) |
| R8       | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W            | R55            | 1-216-829-11          | METAL CHIP                         | 4.7K 5% 1/16W (AEP, UK) |
| R9       | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W            | R56            | 1-216-057-00          | METAL CHIP                         | 2.2K 5% 1/10W (AEP, UK) |
| R10      | 1-216-061-00 | METAL CHIP  | 3.3K 5% 1/10W           | R57            | 1-216-061-00          | METAL CHIP                         | 3.3K 5% 1/10W (AEP, UK) |
| R13      | 1-216-049-11 | RES, CHIP   | 1K 5% 1/10W (AEP, UK)   | R58            | 1-216-025-00          | RES, CHIP                          | 100 5% 1/10W            |
| R13      | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W (US, CND) | R59            | 1-216-105-00          | RES, CHIP                          | 220K 5% 1/10W (AEP, UK) |
| R14      | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W            | R60            | 1-216-057-00          | METAL CHIP                         | 2.2K 5% 1/10W           |
| R15      | 1-216-829-11 | METAL CHIP  | 4.7K 5% 1/16W           | R61            | 1-216-089-00          | RES, CHIP                          | 47K 5% 1/10W            |
| R16      | 1-216-061-00 | METAL CHIP  | 3.3K 5% 1/10W           | R62            | 1-216-073-00          | METAL CHIP                         | 10K 5% 1/10W            |
| R17      | 1-216-025-00 | RES, CHIP   | 100 5% 1/10W (AEP, UK)  | R63            | 1-216-057-00          | METAL CHIP                         | 2.2K 5% 1/10W           |
| R17      | 1-216-009-91 | RES, CHIP   | 22 5% 1/10W (US, CND)   | R64            | 1-216-029-00          | METAL CHIP                         | 150 5% 1/10W (US, CND)  |
| R18      | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W            | R64            | 1-216-295-00          | SHORT                              | 0 (AEP, UK)             |
| R19      | 1-216-820-11 | METAL CHIP  | 820 5% 1/16W            | R65            | 1-216-097-00          | RES, CHIP                          | 100K 5% 1/10W (AEP, UK) |
| R20      | 1-216-081-00 | METAL CHIP  | 22K 5% 1/10W            | R66            | 1-216-097-00          | RES, CHIP                          | 100K 5% 1/10W (AEP, UK) |
| R21      | 1-216-833-11 | RES, CHIP   | 10K 5% 1/16W            | R67            | 1-216-073-00          | METAL CHIP                         | 10K 5% 1/10W (AEP, UK)  |
| R22      | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W           | R68            | 1-216-041-00          | METAL CHIP                         | 470 5% 1/10W (AEP, UK)  |
| R23      | 1-216-069-00 | METAL CHIP  | 6.8K 5% 1/10W           | R69            | 1-216-025-00          | RES, CHIP                          | 100 5% 1/10W            |
| R24      | 1-216-021-00 | METAL CHIP  | 68 5% 1/10W (AEP, UK)   |                |                       | < TRANSFORMER >                    |                         |
| R24      | 1-216-029-00 | METAL CHIP  | 150 5% 1/10W (US, CND)  | T1             | 1-433-741-11          | TRANSFORMER, IF                    |                         |
| R27      | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W           | T2             | 1-233-306-31          | ENCAPSULATED COMPONENT (AEP, UK)   |                         |
| R28      | 1-216-065-00 | RES, CHIP   | 4.7K 5% 1/10W           |                |                       | < TERMINAL >                       |                         |
| R29      | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W            | TB1            | 1-537-488-11          | TERMINAL BOARD (FM EXT/AM ANTENNA) | (AEP, UK)               |
| R30      | 1-216-057-00 | METAL CHIP  | 2.2K 5% 1/10W (AEP, UK) | TB1            | 1-537-924-21          | TERMINAL BOARD (FM EXT/AM ANTENNA) | (US, CND)               |
| R30      | 1-216-059-00 | METAL CHIP  | 2.7K 5% 1/10W (US, CND) |                |                       | < TUNER UNIT >                     |                         |
| R31      | 1-216-057-00 | METAL CHIP  | 2.2K 5% 1/10W (AEP, UK) | * TU1          | 1-693-378-11          | FM/AM TUNER UNIT (AEP, UK)         |                         |
| R31      | 1-216-059-00 | METAL CHIP  | 2.7K 5% 1/10W (US, CND) |                |                       | < VIBRATOR >                       |                         |
| R32      | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W            | X1             | 1-760-130-11          | VIBRATOR, CRYSTAL (75kHz)          |                         |
| R33      | 1-216-049-11 | RES, CHIP   | 1K 5% 1/10W             |                |                       | *****                              |                         |
| R34      | 1-216-073-00 | METAL CHIP  | 10K 5% 1/10W            | * 1-674-439-11 | W-LED BOARD (US, CND) |                                    |                         |
| R35      | 1-216-049-11 | RES, CHIP   | 1K 5% 1/10W             | * 1-674-439-21 | W-LED BOARD (AEP, UK) |                                    |                         |
| R36      | 1-216-057-00 | METAL CHIP  | 2.2K 5% 1/10W           |                |                       | *****                              |                         |
| R38      | 1-216-037-00 | METAL CHIP  | 330 5% 1/10W (US, CND)  |                |                       | < LED >                            |                         |
| R38      | 1-216-295-00 | SHORT       | 0 (AEP, UK)             | D821           | 8-719-941-07          | LED SLC22VR3 (LEVEL)               |                         |
| R40      | 1-216-805-11 | METAL CHIP  | 47 5% 1/16W (US, CND)   |                |                       | *****                              |                         |
| R40      | 1-216-811-11 | METAL CHIP  | 150 5% 1/16W (AEP, UK)  |                |                       |                                    |                         |
| R42      | 1-216-809-11 | METAL CHIP  | 100 5% 1/16W            |                |                       |                                    |                         |
| R45      | 1-216-017-00 | RES, CHIP   | 47 5% 1/10W (AEP, UK)   |                |                       |                                    |                         |
| R46      | 1-216-041-00 | METAL CHIP  | 470 5% 1/10W (AEP, UK)  |                |                       |                                    |                         |

|                |                 |                   |
|----------------|-----------------|-------------------|
| <b>W-POWER</b> | <b>W-VOLUME</b> | <b>WOOFER-AMP</b> |
|----------------|-----------------|-------------------|

| Ref. No. | Part No.     | Description                             | Remark                    |
|----------|--------------|-----------------------------------------|---------------------------|
| *        | 1-674-440-11 | W-POWER BOARD (US, CND)                 |                           |
| *        | 1-674-440-21 | W-POWER BOARD (AEP, UK)                 |                           |
|          |              | *****                                   |                           |
|          | 1-533-233-31 | HOLDER, FUSE                            |                           |
|          |              | < CAPACITOR >                           |                           |
| C801     | 1-127-888-21 | CERAMIC                                 | 0.1uF 10% 50V (AEP, UK)   |
| C801     | 1-127-880-21 | CERAMIC                                 | 0.022uF 10% 50V (US, CND) |
| C802     | 1-127-888-21 | CERAMIC                                 | 0.1uF 10% 50V (AEP, UK)   |
| C802     | 1-127-880-21 | CERAMIC                                 | 0.022uF 10% 50V (US, CND) |
| C803     | 1-127-888-21 | CERAMIC                                 | 0.1uF 10% 50V (AEP, UK)   |
| C803     | 1-127-880-21 | CERAMIC                                 | 0.022uF 10% 50V (US, CND) |
| C804     | 1-127-888-21 | CERAMIC                                 | 0.1uF 10% 50V (AEP, UK)   |
| C804     | 1-127-880-21 | CERAMIC                                 | 0.022uF 10% 50V (US, CND) |
| C805     | 1-127-880-21 | CERAMIC                                 | 0.022uF 10% 50V           |
| C806     | 1-127-880-21 | CERAMIC                                 | 0.022uF 10% 50V           |
|          |              | < CONNECTOR >                           |                           |
| * CN801  | 1-793-660-11 | PIN, CONNECTOR (PC BOARD) 3P            |                           |
| * CN802  | 1-580-155-11 | PIN, CONNECTOR (PC BOARD) 3P (AEP, UK)  |                           |
| * CN802  | 1-564-506-11 | PLUG, CONNECTOR 3P (US, CND)            |                           |
|          |              | < DIODE >                               |                           |
| D801     | 8-719-902-17 | DIODE U15G                              |                           |
| D801     | 8-719-046-47 | DIODE 1N5401TM (US, CND)                |                           |
| D802     | 8-719-902-17 | DIODE U15G                              |                           |
| D802     | 8-719-046-47 | DIODE 1N5401TM (US, CND)                |                           |
| D803     | 8-719-902-17 | DIODE U15G                              |                           |
| D803     | 8-719-046-47 | DIODE 1N5401TM (US, CND)                |                           |
| D804     | 8-719-902-17 | DIODE U15G                              |                           |
| D804     | 8-719-046-47 | DIODE 1N5401TM (US, CND)                |                           |
|          |              | < FUSE >                                |                           |
| △ F801   | 1-532-501-51 | FUSE (T800mAL/250V) (AEP, UK)           |                           |
| △ F801   | 1-576-101-11 | FUSE (1.25A/250V) (US, CND)             |                           |
| △ F802   | 1-532-501-51 | FUSE (T800mAL/250V) (AEP, UK)           |                           |
| △ F802   | 1-576-101-11 | FUSE (1.25A/250V) (US, CND)             |                           |
| △ F803   | 1-532-465-51 | FUSE, TIME LAG (T3.15AL/250V) (AEP, UK) |                           |
| △ F803   | 1-576-108-11 | FUSE (4A/125V) (US, CND)                |                           |
| △ F804   | 1-532-465-51 | FUSE, TIME LAG (T3.15AL/250V) (AEP, UK) |                           |
| △ F804   | 1-576-108-11 | FUSE (4A/125V) (US, CND)                |                           |
|          |              | < JACK >                                |                           |
| △ J801   | 1-785-575-11 | OUTLET (AC) (AC OUTLET, MAX 35W)        |                           |
|          |              | (AEP, UK)                               |                           |
| △ J801   | 1-540-057-11 | OUTLET, AC (POLAR) (AC OUTLET, MAX 35W) |                           |
|          |              | (US, CND)                               |                           |

| Ref. No. | Part No.     | Description                                  | Remark         |
|----------|--------------|----------------------------------------------|----------------|
|          |              | < LINE FILTER >                              |                |
| LF801    | 1-402-663-11 | TRANSFORMER, LINE FILTER (LFT)               |                |
|          |              | < TRANSFORMER >                              |                |
| △ T801   | 1-433-450-11 | TRANSFORMER, POWER (AEP, UK)                 |                |
| △ T801   | 1-433-880-11 | TRANSFORMER, POWER (US, CND)                 |                |
|          |              | *****                                        |                |
| *        | 1-674-438-11 | W-VOLUME BOARD (US, CND)                     |                |
| *        | 1-674-438-21 | W-VOLUME BOARD (AEP, UK)                     |                |
|          |              | *****                                        |                |
|          |              | < CONNECTOR >                                |                |
| CN821    | 1-506-986-11 | PIN, CONNECTOR (PC BOARD) 4P                 |                |
|          |              | < VARIABLE RESISTOR >                        |                |
| RV821    | 1-225-483-21 | RES, VAR, CARBON 20K (LEVEL)                 |                |
|          |              | *****                                        |                |
| *        | A-3323-280-A | WOOFER-AMP BOARD, COMPLETE (AEP, UK)         |                |
| *        | A-3323-220-A | WOOFER-AMP BOARD, COMPLETE (US, CND)         |                |
|          |              | *****                                        |                |
|          |              | (Including WOOFER AMP (A, B) board complete) |                |
|          | 3-040-863-01 | LINK, LABEL IC (US, CND)                     |                |
|          |              | < CAPACITOR >                                |                |
| C807     | 1-126-964-11 | ELECT                                        | 10uF 20% 50V   |
| C811     | 1-126-955-11 | ELECT                                        | 4700uF 20% 35V |
| C812     | 1-126-955-11 | ELECT                                        | 4700uF 20% 35V |
| C813     | 1-126-933-11 | ELECT                                        | 100uF 20% 16V  |
| C814     | 1-162-306-11 | CERAMIC                                      | 0.01uF 30% 16V |
| C815     | 1-104-664-11 | ELECT                                        | 47uF 20% 25V   |
| C816     | 1-126-963-11 | ELECT                                        | 4.7uF 20% 50V  |
| C817     | 1-126-959-11 | ELECT                                        | 0.47uF 20% 50V |
| C818     | 1-126-933-11 | ELECT                                        | 100uF 20% 16V  |
| C819     | 1-126-960-11 | ELECT                                        | 1uF 20% 50V    |
| C820     | 1-136-165-00 | FILM                                         | 0.1uF 5% 50V   |
| C821     | 1-130-489-00 | MYLAR                                        | 0.033uF 5% 50V |
| C822     | 1-126-960-11 | ELECT                                        | 1uF 20% 50V    |
| C823     | 1-136-164-00 | FILM                                         | 0.082uF 5% 50V |
| C824     | 1-128-551-11 | ELECT                                        | 22uF 20% 25V   |
| C825     | 1-128-551-11 | ELECT                                        | 22uF 20% 25V   |
| C826     | 1-126-964-11 | ELECT                                        | 10uF 20% 50V   |
| C827     | 1-126-964-11 | ELECT                                        | 10uF 20% 50V   |
| C828     | 1-126-960-11 | ELECT                                        | 1uF 20% 50V    |
| C830     | 1-104-665-11 | ELECT                                        | 100uF 20% 10V  |
| C831     | 1-137-374-11 | FILM                                         | 0.047uF 5% 50V |
|          |              | < CONNECTOR >                                |                |
| CN803    | 1-506-986-11 | PIN, CONNECTOR (PC BOARD) 4P                 |                |
| * CN811  | 1-564-506-11 | PLUG, CONNECTOR 3P (US, CND)                 |                |
| * CN811  | 1-580-155-11 | PIN, CONNECTOR (PC BOARD) 3P (AEP, UK)       |                |
| * CN812  | 1-564-505-11 | PLUG, CONNECTOR 2P (US, CND)                 |                |
| * CN812  | 1-580-154-11 | PIN, CONNECTOR (PC BOARD) 2P (AEP, UK)       |                |

|                                                                                                                                  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
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# WOOFER-AMP

| Ref. No. | Part No.     | Description                         | Remark | Ref. No. | Part No.     | Description                                                | Remark |
|----------|--------------|-------------------------------------|--------|----------|--------------|------------------------------------------------------------|--------|
|          |              | < DIODE >                           |        | R828     | 1-249-427-11 | CARBON 6.8K 5%                                             | 1/4W   |
|          |              |                                     |        | R829     | 1-249-429-11 | CARBON 10K 5%                                              | 1/4W   |
| D811     | 8-719-991-33 | DIODE 1SS133T-77                    |        | *****    |              |                                                            |        |
| D812     | 8-719-991-33 | DIODE 1SS133T-77                    |        |          |              | MISCELLANEOUS                                              |        |
| D813     | 8-719-110-17 | DIODE RD10ESB2                      |        |          |              | *****                                                      |        |
| D814     | 8-719-991-33 | DIODE 1SS133T-77                    |        | * 7      | 1-790-785-11 | WIRE, PARALLEL (FFC) 9P                                    |        |
| D815     | 8-719-991-33 | DIODE 1SS133T-77                    |        | * 58     | 1-790-787-11 | WIRE, PARALLEL (FFC) 12P                                   |        |
| D816     | 8-719-991-33 | DIODE 1SS133T-77                    |        | * 108    | 1-791-531-11 | WIRE, PARALLEL (FFC) 21P                                   |        |
| D817     | 8-719-991-33 | DIODE 1SS133T-77                    |        | * 109    | 1-791-532-11 | WIRE, PARALLEL (FFC) 23P                                   |        |
|          |              | < IC >                              |        | * 110    | 1-790-788-11 | WIRE, PARALLEL (FFC) 26P                                   |        |
| IC811    | 8-759-145-58 | IC uPC4558C                         |        | 208      | 1-667-954-11 | FLEXIBLE BOARD                                             |        |
| IC812    | 8-759-584-39 | IC TDA7296                          |        | △ 210    | 8-583-028-02 | OPTICAL PICK-UP KMS-260A (for MD)                          |        |
|          |              | < JACK >                            |        | * 253    | 1-790-786-11 | WIRE, PARALLEL (FFC) 8P                                    |        |
| J811     | 1-774-785-11 | JACK, PIN 1P (SIGNAL INPUT, WOOFER) |        | 256      | 1-452-899-11 | MAGNET                                                     |        |
|          |              | < IC LINK >                         |        | * 273    | 1-790-784-11 | WIRE, PARALLEL (FFC) 16P                                   |        |
| PS831    | 1-532-637-00 | LINK, IC 1.0A (US, CND)             |        | * 279    | 1-791-028-11 | WIRE, PARALLEL (FFC) 11P                                   |        |
|          |              | < TRANSISTOR >                      |        | △ 301    | 8-848-483-05 | OPTICAL PICK-UP KSS-213C (for CD)                          |        |
| Q811     | 8-729-011-92 | TRANSISTOR 2SC2001TP-K1K2           |        | 305      | X-2646-381-1 | SPINDLE MOTOR ASSY (SPINDLE)<br>(INCLUDING M1002) (for CD) |        |
| Q812     | 8-729-011-92 | TRANSISTOR 2SC2001TP-K1K2           |        | △ 364    | 1-575-651-11 | CORD, POWER (AEP, UK)                                      |        |
| Q813     | 8-729-119-78 | TRANSISTOR 2SC403SP-51              |        | △ 364    | 1-783-531-21 | CORD, POWER (US, CND)                                      |        |
| Q814     | 8-729-011-92 | TRANSISTOR 2SC2001TP-K1K2           |        | △ 456    | 1-575-651-11 | CORD, POWER (CND, AEP, UK)                                 |        |
| Q815     | 8-729-119-78 | TRANSISTOR 2SC403SP-51              |        | △ 456    | 1-783-531-21 | CORD, POWER (US, CND)                                      |        |
| Q816     | 8-729-037-34 | TRANSISTOR KRA107M                  |        | HR901    | 1-500-502-11 | HEAD, OVER WRITE                                           |        |
| Q817     | 8-729-036-58 | TRANSISTOR KRC102M-AT               |        | LCD500   | 1-418-423-11 | DISPLAY PANEL UNIT                                         |        |
| Q818     | 8-729-036-58 | TRANSISTOR KRC102M-AT               |        | M101     | A-4672-475-A | MOTOR ASSY, SPINDLE (SPINDLE) (for MD)                     |        |
|          |              | < RESISTOR >                        |        | M102     | A-4672-474-A | MOTOR ASSY, SLED (SLED) (for MD)                           |        |
| R801     | 1-249-429-11 | CARBON 10K 5%                       | 1/4W   | M103     | X-4949-264-1 | MOTOR ASSY, LOADING (LOADING)                              |        |
| R802     | 1-249-429-11 | CARBON 10K 5%                       | 1/4W   | M703     | 1-698-999-11 | MOTOR, DC (CD LID OPEN/CLOSE)                              |        |
| R803     | 1-249-429-11 | CARBON 10K 5%                       | 1/4W   | M1001    | X-2625-769-1 | SLED MOTOR (WITH GEAR) ASSY (SLED)<br>(for CD)             |        |
| R804     | 1-247-815-91 | CARBON 220 5%                       | 1/4W   | S102     | 1-762-148-21 | SWITCH, PUSH (2 KEY)<br>(REFLECT RATE/PROTECT DETECT)      |        |
| R805     | 1-249-417-11 | CARBON 1K 5%                        | 1/4W   | SP391    | 1-529-363-11 | SPEAKER (L-CH)                                             |        |
| R806     | 1-249-418-11 | CARBON 1.2K 5%                      | 1/4W   | SP392    | 1-529-363-11 | SPEAKER (R-CH)                                             |        |
| R807     | 1-249-437-11 | CARBON 47K 5%                       | 1/4W   | SP800    | 1-529-134-11 | SPEAKER (10cm) (SUPER WOOFER)                              |        |
| R808     | 1-249-437-11 | CARBON 47K 5%                       | 1/4W   | *****    |              |                                                            |        |
| R809     | 1-249-429-11 | CARBON 10K 5%                       | 1/4W   |          |              | HARDWARE LIST                                              |        |
| R810     | 1-249-426-11 | CARBON 5.6K 5%                      | 1/4W   |          |              | *****                                                      |        |
| R811     | 1-249-425-11 | CARBON 4.7K 5%                      | 1/4W   | #1       | 7-621-770-87 | SCREW +P 2.6X5                                             |        |
| R812     | 1-247-903-00 | CARBON 1M 5%                        | 1/4W   | #2       | 7-621-773-86 | SCREW +B 2.6X4                                             |        |
| R813     | 1-249-417-11 | CARBON 1K 5%                        | 1/4W   | #3       | 7-685-133-19 | SCREW (DIA. 2.6) (IT3B)                                    |        |
| R814     | 1-249-429-11 | CARBON 10K 5%                       | 1/4W   | #5       | 7-685-533-19 | SCREW +BTP 2.6X6 TYPE2 N-S                                 |        |
| R815     | 1-249-419-11 | CARBON 1.5K 5%                      | 1/4W   | #6       | 7-685-534-19 | SCREW +BTP 2.6X8 TYPE2 N-S                                 |        |
| R816     | 1-247-843-11 | CARBON 3.3K 5%                      | 1/4W   | #7       | 7-685-547-19 | SCREW +BTP 3X10 TYPE2 N-S                                  |        |
| R817     | 1-249-413-11 | CARBON 470 5%                       | 1/4W   | #8       | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2                                      |        |
| R819     | 1-247-863-91 | CARBON 22K 5%                       | 1/4W   | #9       | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2                                     |        |
| R820     | 1-249-417-11 | CARBON 1K 5%                        | 1/4W   | #11      | 7-685-648-79 | SCREW +BVTP 3X12 TYPE2                                     |        |
| R821     | 1-247-863-91 | CARBON 22K 5%                       | 1/4W   | #13      | 7-685-659-91 | SCREW +BVTP 4X8 TYPE2 TT(B)                                |        |
| R822     | 1-247-863-91 | CARBON 22K 5%                       | 1/4W   | #14      | 7-685-862-09 | SCREW +BVTT 2.6X6 (S)                                      |        |
| R823     | 1-249-435-11 | CARBON 33K 5%                       | 1/4W   | #15      | 7-685-864-09 | SCREW +BVTT 2.6X10 (S)                                     |        |
| R824     | 1-249-429-11 | CARBON 10K 5%                       | 1/4W   | #16      | 7-621-772-20 | SCREW +B 2X5                                               |        |
| R825     | 1-249-441-11 | CARBON 100K 5%                      | 1/4W   | #17      | 7-621-772-40 | SCREW +B 2X8                                               |        |
| R827     | 1-247-863-91 | CARBON 22K 5%                       | 1/4W   | #18      | 7-627-852-08 | SCREW, PRECISION +P 1.7X2.5                                |        |

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| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Remark</u> |
|-----------------|-----------------|--------------------|---------------|
| #19             | 7-685-872-09    | SCREW +BVTT 3X8    |               |
| #20             | 7-623-108-15    | W3, MIDDLE         |               |
| #21             | 7-623-208-22    | SW3, TYPE2         |               |

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ACCESSORIES & PACKING MATERIALS

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- 1-754-094-11 ANTENNA, LOOP
- 1-501-695-11 ANTENNA, FM (US, CND)
- 1-501-594-11 ANTENNA (FM) (AEP, UK)
- 1-791-562-11 CORD, CONNECTION (LSP)
- 1-770-012-11 ADAPTOR, CONVERSION PLUG 3P (UK)
  
- 1-791-563-11 CORD, CONNECTION (S/W)
- A-3250-945-A REMOTE CONTROL UNIT (RMT-CMD55A)
- 3-027-153-11 LID, BATTERY CASE (RMT-CMD55A)
- 3-866-600-11 MANUAL, INSTRUCTION (ENGLISH) (US)
- 3-866-600-12 MANUAL, INSTRUCTION (ENGLISH)  
(US, CND)
  
- 3-866-600-21 MANUAL, INSTRUCTION (ENGLISH, SPANISH)  
(AEP, UK)
- 3-866-600-31 MANUAL, INSTRUCTION (FRENCH, GERMAN)  
(AEP)
  
- 3-866-600-41 MANUAL, INSTRUCTION  
(DUTCH, PORTUGUESE) (AEP)
- 3-866-600-51 MANUAL, INSTRUCTION (ITALIAN) (AEP)
- 3-866-600-61 MANUAL, INSTRUCTION (SWEDISH, DANISH)  
(AEP)
  
- 3-866-600-71 MANUAL, INSTRUCTION (FRENCH) (CND)