PMC-D305/D305L

SERVICE MANUAL

Ver 1.2 1999. 11
With SUPPLEMENT-1
(9-923-212-81)

Photo: PMC-D305L

US Model
Canadian Model
E Model
Australian Model
PMC-D305
AEP Model
UK Model
PMC-D305L

CD Section	Model Name Using Similar Mechanism	CFD-ZW150, ZW150L
	CD Mechanism Type	KSM-213CAM/C2NP
	Optiacal Pick-up Name	KSS-213B/S-RP
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-D305

SPECIFICATIONS

For the US model
AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 6.0-ohm loads, both channels driven from 100-15,000 Hz; rated 9.4 W per channel-minimum RMS power, with no more than
10 % total harmonic distortion in AC operation.

CD player section
system
Compact disc digital audio system
Laser diode properties
Material: GaAlAs
Wave length: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW (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 channels
2
Frequency response
20-20,000 Hz + 1/– 2.5 dB
Wow and flutter
Below measurable limit

Radio section
Frequency range

	FM	AM (MW)	LW
US, Canadian, E Models	87.6 – 108 MHz	530 – 1,710 kHz	_____
AEP, UK, CET Models	87.6 – 107 MHz	531 – 1,602 kHz	153 – 279 kHz
Italian Model	87.5 – 108 MHz	531 – 1,602 kHz	153 – 279 kHz
Australian Model	87.6 – 108 MHz	531 – 1,602 kHz	_____

IF
FM: 10.7 MHz
AM (MW)/LW: 450 kHz
Aerials
FM: Lead aerial (D305)
FM: External aerial terminal (D305L)
AM (MW)/LW: External aerial terminal

– Continued on next page –

PERSONAL COMPONENT SYSTEM

MICROFILM

SONY®

Cassette-corder section

Recording system
4-track 2 channel stereo
Fast winding time
Approx. 130 s (sec.) with Sony cassette C-60
Frequency response
TYPE I (normal):40-15,000 Hz

General

Speaker
Full range: 8 cm (3 1/4 in.) dia., 6.0 ohms, cone type ×2
Input
LINE IN jack (stereo minijack)
Minimum input level 250 mV
Outputs
Headphones jack (stereo minijack)
For 16-68 ohms impedance headphones
LINE OUT jack (stereo minijack)
Rated output level 440 mV at load impedance
47 kilohms
Optical digital output (optical output connector)
Wave length: 630 – 690 nm
Power output (excluding US model)
10 W + 10 W (at 6.0 ohms, 10% harmonic distortion)
Power requirements
For personal component system:

US, Canadian, E models	120 V AC, 60 Hz
AEP, UK, Italian, CET, Australian models	230 V AC, 50 Hz

For remote commander:
3 V DC, 2 size AA (R6) batteries
Power consumption
AC 35 W
Dimensions (incl. projecting Parts)
Player: approx. 130 × 211 × 200 mm (w/h/d)
(5 1/8 × 8 3/8 × 7 7/8 inches)
Left speaker: approx. 125 × 210 × 234 mm (w/h/d)
(5 × 8 3/8 × 9 1/4 inches)
Right speaker: approx. 125 × 210 × 200 mm (w/h/d)
(5 × 8 3/8 × 7 7/8 inches)
Mass
Player: approx. 1.7 kg (3 lb. 12 oz)
Left speaker: approx. 2.8 kg (6 lb. 3 oz)
Right speaker: approx. 1.1 kg (2 lb. 7 oz)
Supplied accessories
Remote commander (1)
FM lead aerial (1) (D305L)
AM (MW)/LW loop aerial (1)
Audio connecting cord (1)

Design and specifications are subject to change without notice.

• Abbreviation
CET : East European, Russian

TABLE OF CONTENTS

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 microampers). 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)

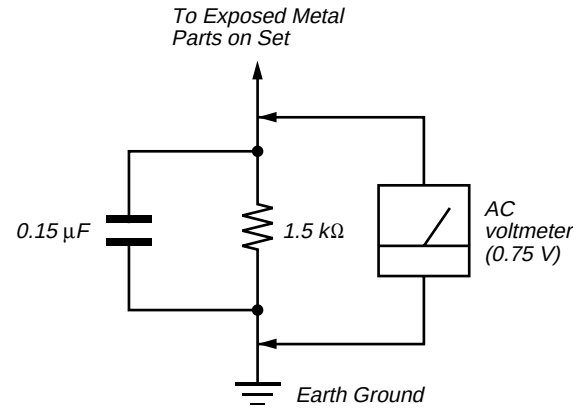


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

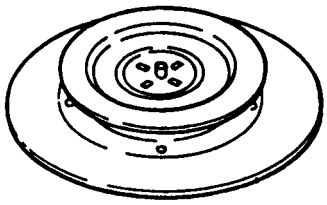
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

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



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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

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

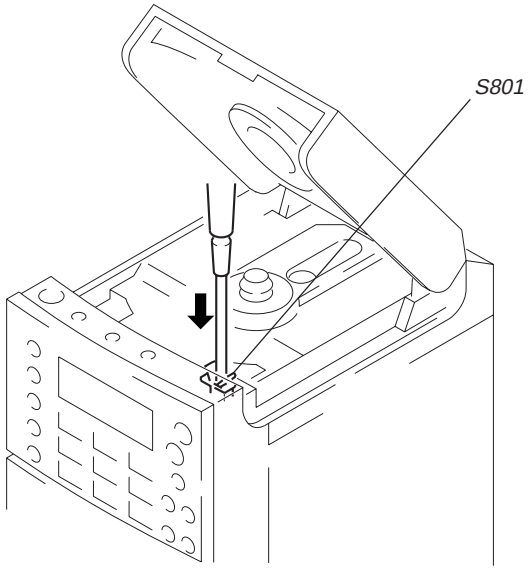
This Compact Disc player is classiffied as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT table is location on the rear exterior.

CAUTION

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

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Turn POWER switch on with to disc inserted and make Function switch to CD position.
2. Open the lid for CD.
3. Turn on S801 as following figure.
4. Press the ▷ button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down three times for focus search.

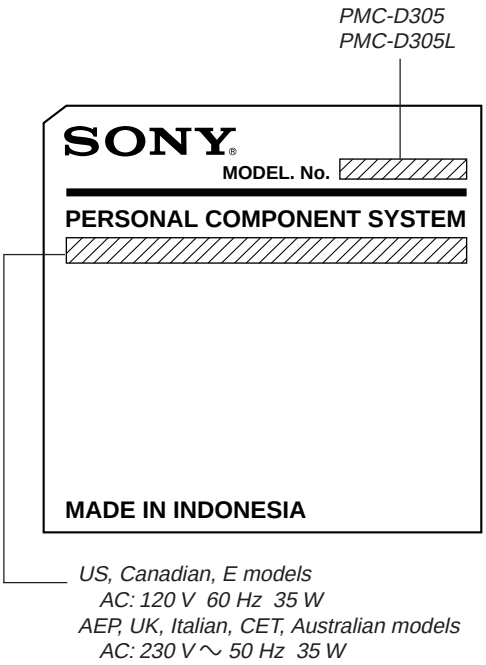


HOW TO CHANGE THE FM CERAMIC FILTERS

This model is used two ceramic filters of CF1, 2 and CF3. Therefore, the ceramic filter must change two pieces together since it's supply two pieces in one package as a spare parts.

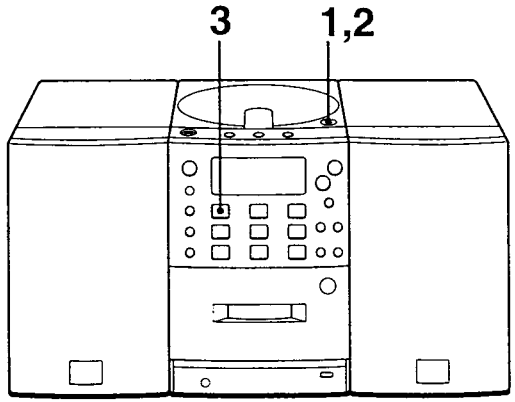
MODEL IDENTIFICATION

– Model Number Label – Carved on rear cabinet



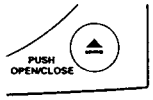
- Abbreviation
  CET: East European, Russian

Playing a CD

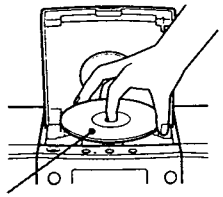


For hookup instructions, see pages 26 - 29.

1

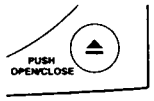


Press ⏏ OPEN/CLOSE down to open the CD compartment and place the CD on the CD compartment.

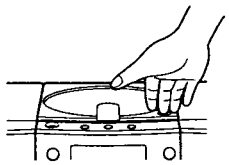


With the label side up

2



Close the lid of the CD compartment.

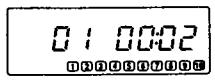


3

Press ► on the CD section (direct power-on).

The player plays all the tracks once.

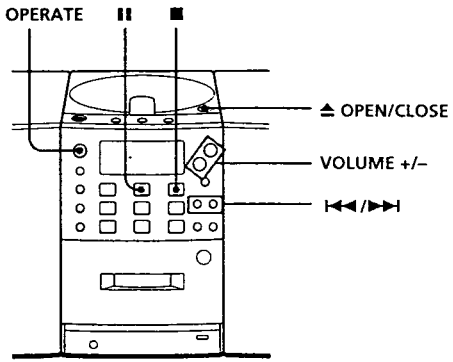
Display



Tip

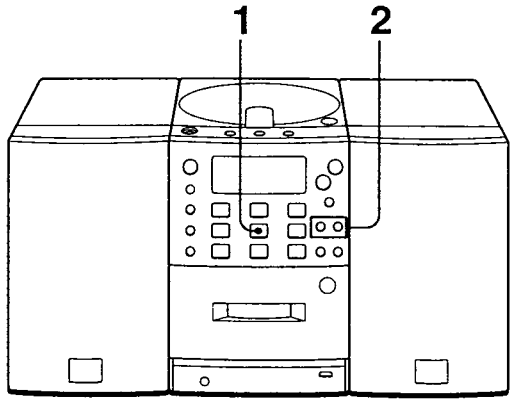
Next time you want to listen to a CD, just press ►. The player turns on automatically and starts playing the CD.

Use these buttons for additional operations



To	Press
Adjust the volume	VOLUME +/–
Stop playback	■
Pause playback	II Press again to resume play after pause.
Go to the next track	⏭
Go back to the previous track	⏮
Remove the CD	⏏ OPEN/CLOSE
Turn on/off the player	OPERATE

Listening to the radio



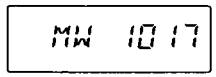
For hookup instructions, see pages 26 - 29.

1

RADIO BAND

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

Display



2

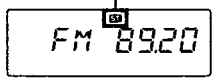
⏮ ⏭
– TUNE +

Hold down 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 the button once at a time.

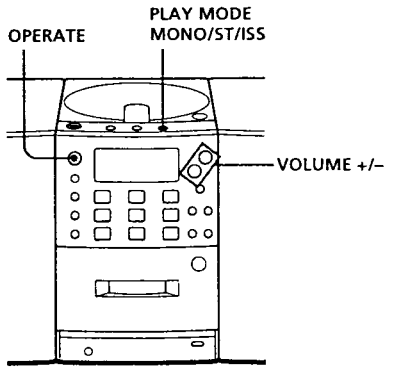
Indicates an FM stereo broadcast.



Tips

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

Use these buttons for additional operations



To	Press
Adjust the volume	VOLUME +/–
Turn on/off the radio	OPERATE

To improve broadcast reception

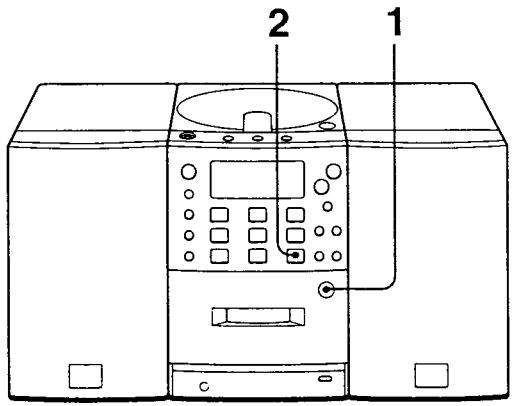
FM

Connect the supplied FM lead aerial. If the FM broadcast is still noisy, disconnect the FM lead aerial and connect the FM outdoor aerial (not supplied) (see pages 28 and 29.)

MW/LW

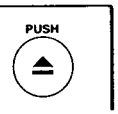
Reorient the MW/LW loop aerial (supplied) (see page 28.)

Playing a tape

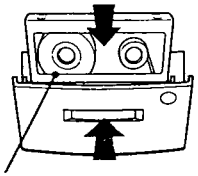


For hookup instructions, see pages 26 - 29.

1



Press ⏏ PUSH to open the tape compartment and insert a recorded tape. Use TYPE I (normal) tape only. Close the compartment.



With the side you want to play facing forward

2

Press ► on the TAPE section.

The player turns on (direct power-on) and starts playing.

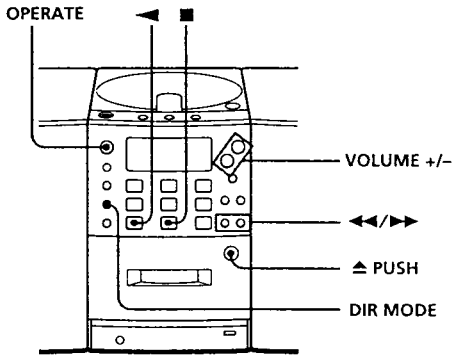
Display

Tape counter

Tips

- Press COUNTER RESET on the remote to reset the counter to "000." (on the remote only)
- Next time you want to listen to a tape, just press ► or ◄. The player turns on automatically and starts playing the tape.

Use these buttons for additional operations



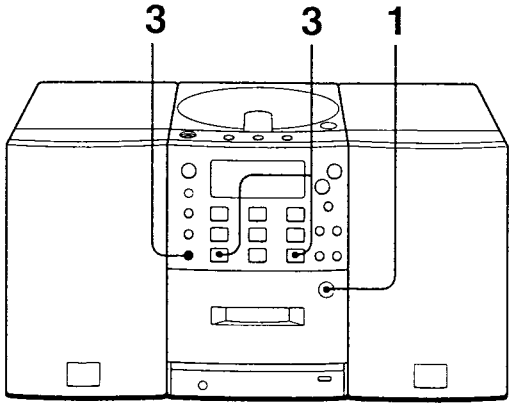
To	Press
Adjust the volume	VOLUME +/–
Stop playback	■
Play the reverse side	◄
Fast-forward or rewind the tape	►► or ◄◄
Eject the cassette	⏏ PUSH
Turn on/off the player	OPERATE

To select the direction of the tape

Press DIR MODE repeatedly.

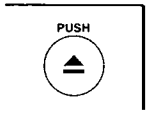
To play	Display shows
One side of the tape	⇄
Both sides of the tape from the front side to reverse side only	⇉
Both sides of the tape repeatedly	⟳

Recording on a tape

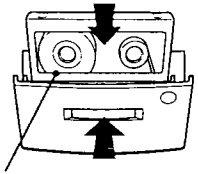


For hookup instructions, see pages 26 - 29.

1



Press ⏏ PUSH to open the tape compartment and insert a blank tape. Use TYPE I (normal) tape only.



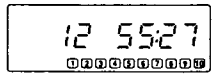
With the side you want to record on facing forward

2

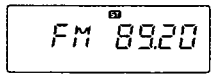
Select the program source you want to record.

To record from the CD player, insert a CD (see page 4) and press ■ on the CD section.

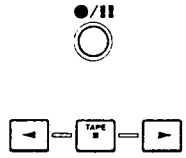
Display



To record from the radio, press BAND and tune in the station you want (see page 6.)



3



Start recording.

1 Press ●/II.

The ◄/► indication in the display flashes.

2 Press ► (for the front side) or ◄ (for the reverse side) on the TAPE section to select the recording side of the tape.

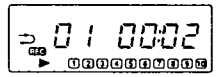
Recording will start automatically.

(On the remote, while keeping ●/II pressed, press ► or ◄ on the TAPE section.)

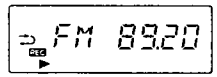
Note

If recording does not start, press ●/II and then ► or ◄ again.

Recording from the CD player



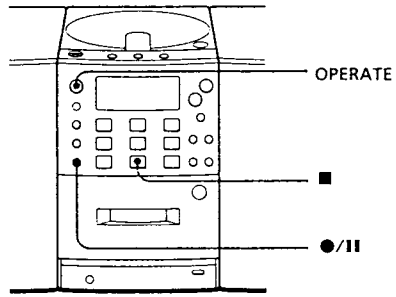
Recording from the radio



Tips

- Adjusting the volume or the audio emphasis (see page 32) will not affect the recording level.
- When ⇄ is displayed, recording will be made on both sides of the tape. To record on one side, press DIR MODE to display →.
- If the MW/LW radio makes a whistling sound after you've pressed ●/II in step 3, press PLAY MODE/ MONO/ST/ISS to select the position that most decreases the noise.
- To erase a recording, proceed as follows:
  1 Insert a tape you want to erase its recording and press ■ on the tape section.
  2 On the player: press ●/II and then ► or ◄. On the remote: While keeping ●/II pressed, press ► or ◄.

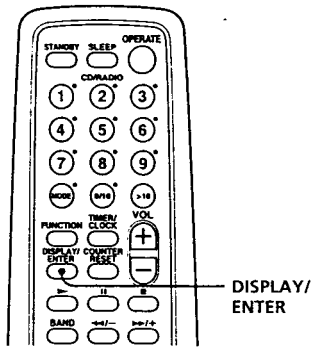
Use these buttons for additional operations



To	Press
Stop recording	■ on the TAPE section
Pause recording	●/II Press the button again to resume recording.
Turn on/off the player	OPERATE

Using the display

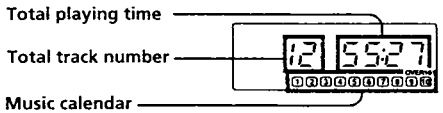
You can check information about the CD using the display.



Checking the total track number and playing time

Press DISPLAY/ENTER in stop mode.

If the CD has more than 10 tracks, "OVER 10" appears in the display.



Checking the remaining time

Press DISPLAY/ENTER while playing a CD.

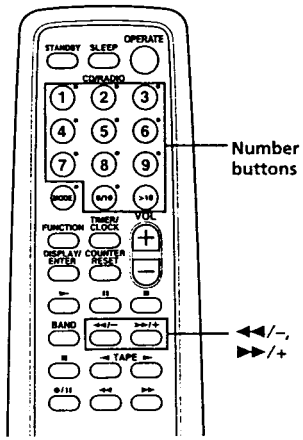
The track numbers in the music calendar disappear after they are played.

To display	Press DISPLAY/ENTER
The current track number and the remaining time on the current track*.	Once
The remaining time on the CD and the number of tracks left	Twice
The current track number and playing time	Three times

* For a track whose number is more than 20 the remaining time appears as "–:–".

Locating a specific track

You can quickly locate any track using the number buttons. You can also find a specific point in a track while playing a CD.



Note

You cannot locate a specific track if "PGM" or "SHUF REP" is lit in the display. Turn off the indication by pressing ■ on the CD section.

Tip

When you locate a track numbered over 10, press > 10 first, then the corresponding number buttons.

Example:

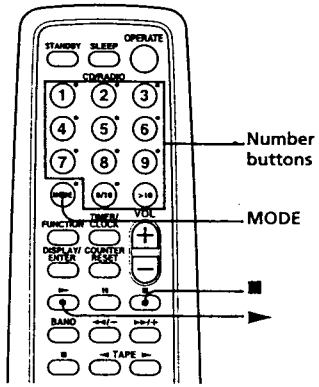
To play track number 23, press >10 first, then 2 and 3.

To locate	Press
a specific track directly	number button of the track.
a point while listening to the sound	▶▶/+ (forward) or ◀◀/– (backward) while playing and hold down until you find the point. When you use the buttons on the player, use ⏮ / ⏭.
a point while observing the display	▶▶/+ (forward) or ◀◀/– (backward) in pause and hold down until you find the point. When you use the buttons on the player, use ⏮ / ⏭.

Playing tracks repeatedly

(Repeat Play)

You can play tracks repeatedly in normal, shuffle or program play modes (see pages 15 and 16.)



Note

When you repeat a single track or all the tracks, make sure neither "PGM" nor "SHUF REP" is lit in the display. If either is lit, turn it off by pressing ■ on the CD section.

1 Press ■ on the CD section.

"Cd" appears in the display.

2 Press MODE until the repeat mode you want appears in the display.

To repeat	Select
a single track	REP 1
all the tracks	REP ALL
tracks in random order	SHUF REP
programed tracks	PGM REP and then program tracks (see steps 3 on page 15).

3 Do either of the following to start repeat play:

- **When you've selected REP1,** select the track by pressing the number button.
- **When you've selected REP ALL, SHUF REP or PGM REP,** press ►.

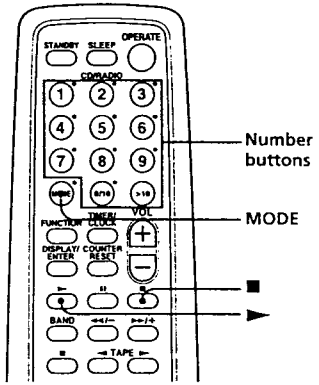
To cancel Repeat Play

Press MODE until "REP" disappears from the display.

Creating your own program

(Program Play)

You can make a program of up to 20 tracks in the order you want them to be played.



Tips

- To create your own program on the player by selecting the track you want while listening to the CD, proceed as follows:
  1 Press ► on the CD section to start play.
  2 Press PGM SET/AUTO PRESET. "PGM" flashes in the display.
  3 Press ⏮ / ⏭ to select the track you want to program, and press DISPLAY/ENTER/MEM. Repeat this step.
  4 Press ■.
  5 Press ► to start program play.

Note

When you program a track from the CD having more than 21 tracks:

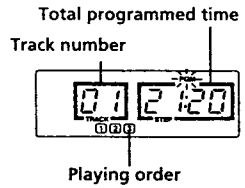
If you program a track whose track number is more than 21, "- -:- -" is displayed instead of the total programmed time.

1 Press ■ on the CD section.

"Cd" appears in the display.

2 Press MODE until "PGM" appears in the display.

3 Press the number buttons for the tracks you want to program in the order you want.



4 Press ► to start program play.

continued

Creating your own program (Program Play) (continued)

Notes

- You can play the same program again, since the program is saved until you open the CD compartment.
- You can record your own program. After you've created the program, insert a blank tape into the tape compartment and press ●/II and ► (or ◄) to start recording.

To cancel Program Play

Press MODE until "PGM" disappears in the display.

To check the order of tracks before play

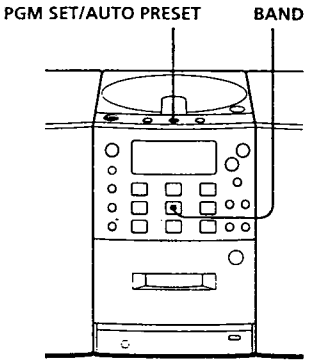
Press ▶▶I on the player.

Every time you press the button, the track number appears in the programmed order.

To change the current program

Press ■ once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programming procedure.

Presetting radio stations



You can store radio stations into the player's memory. You can preset up to 30 radio stations, 10 for each band in any order.

1 Press BAND until the band you want appears in the display.

2 Press PGM SET/AUTO PRESET until "AUTO" appears.

The stations are stored in memory from the lower frequencies unless a station has a weak signal.

If a station cannot be preset automatically

You need to preset a station with a weak signal manually. Also, when you want to replace a preset station with a new one, do the following:

1 Press BAND until the band you want appears in the display.

2 Tune in a station you want.

3 On the remote, hold down the number buttons that you want to preset the new station for about 2 seconds.

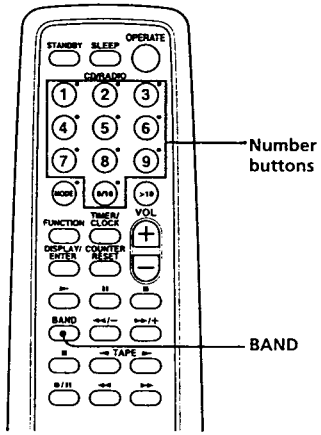
On the player:

Press DISPLAY/ENTER/MEM for about 2 seconds until "PRESET" flashes. Select the preset number that you want to preset the new station by pressing PRESET +/–, and press DISPLAY/ENTER/MEM.

The new station replaces the old one.

Playing preset radio stations

Once you've preset the stations, use the number buttons to tune in your favorite stations.



Tip

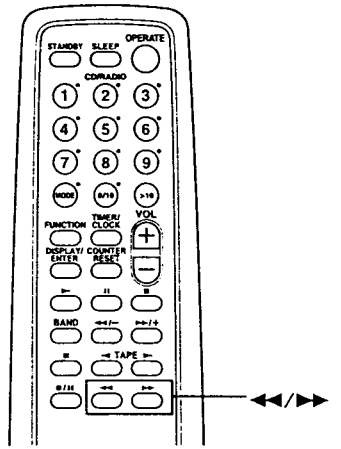
You can tune in a preset station with the player. Use PRESET +/– instead of the number buttons.

1 Press BAND to select the band.

2 Press the number buttons to tune in a stored station.

Finding the beginning of a track

The player senses where a track begins by detecting the pauses between the tracks.



Notes

- If a soft sound like pianissimo continues for some seconds in a track, the player may start to play as the next track.
- If you press the ▶▶ or ◀◀ when there is no sound in the track, this function does not operate correctly.
- To find the beginning of a track correctly, a pause of approx. 4 seconds is necessary.

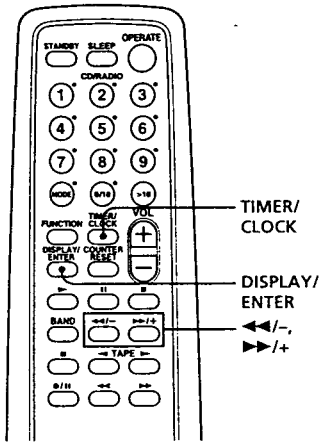
While playing a tape, press ▶▶ or ◀◀.

Playing side	The beginning of the next track	The beginning of the current track
Front side (►)	▶▶	◀◀
Reverse side (◄)	◀◀	▶▶

The tape is wound or rewound to the beginning of the next or current track, and play will start automatically.

Setting the clock

"0:00" indication appears in the display until you set the clock.
As long as the clock goes, ":" flashes.



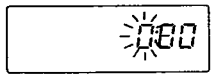
Tip
The time display system:
24-hour system

Before you begin, hook up the systems (see page 26.)

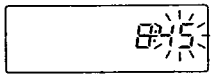
1 Press and hold TIMER/CLOCK for about 2 seconds until the hour digit flash.

2 Set the clock.

① Press ◀◀/– or ▶▶/+ to set the hour and press DISPLAY/ ENTER.



② Press ◀◀/– or ▶▶/+ to set the minutes.

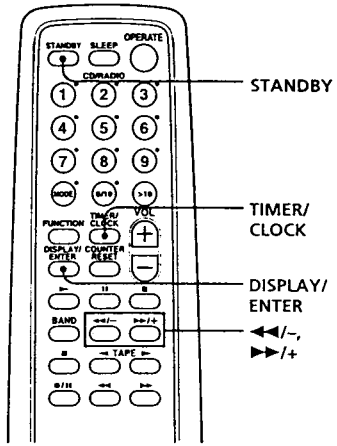


3 Press DISPLAY/ENTER.

":" flashes and the clock starts from 00 seconds.

Waking up to music

You can wake up to music or a radio program at a preset time. Make sure you have set the clock ("Setting the clock" on page 20).



Note
You cannot preset wake-up timer and recording timer (page 24) at the same time.

Before you begin, make sure the ⏲ (clock) indication is not lit in the display. If it is lit, press STANDBY.

1 Prepare the music source you want to play.

Source	Do this
CD	Insert a CD.
TAPE	Insert a tape.
RADIO	Tune in a station.
LINE	Turn on the equipment connected to LINE IN.

2 Press TIMER/CLOCK to display the ⏲ indication.

Do the following operations by checking the display window.

3 Press ◀◀/– or ▶▶/+ until "PLAY" appears in the display and press DISPLAY/ENTER.

4 Press ◀◀/–, ▶▶/+ until the music source ("Cd," "TAPE," "RAdiO" or "LINE") you want to play appears in the display and press DISPLAY/ENTER.

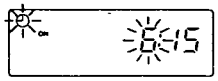
continued

Tips

- The display window does not light while the waking up timer is operating even if the power is on.
- You can have the player go on the next day at the same time. Just press STANDBY until the ⏲ indication appears in the display. The preset settings remain until you reset them.

5 Set the timer to the hour and the minutes you want the music to go on.

① Press ◀◀/– or ▶▶/+ to set the hour and press DISPLAY/ENTER.



② Press ◀◀/– or ▶▶/+ to set the minutes and press DISPLAY/ENTER.

6 Set the timer to the hour and the minutes you want the music to go off (Do as step 5.)

7 Press ◀◀/– or ▶▶/+ to set the volume you want, and press DISPLAY/ENTER.

8 Press STANDBY.

The ⏲ indication lights up and the power goes off.

At the preset time, the power will go on and music will fade in. Then, music will fade out and the power will go off at the preset time, and the player will enter the standby mode.

To check/change when the playback will start

Press TIMER/CLOCK, then DISPLAY/ENTER. Each time you press DISPLAY/ENTER, a stored setting lights up. Change the setting if you need to when the setting lights up. When you finish checking, press TIMER/CLOCK.

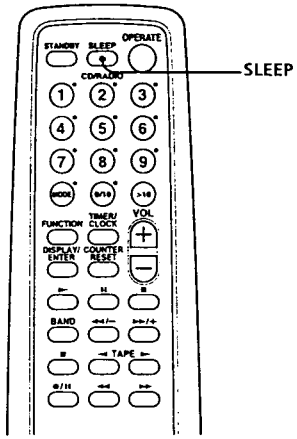
To use the player before a timer playback starts

If you turn on the player, you can use it as usual (in case of the radio, if you listen to the station which is different from the one you tuned in in step 1 on page 21, you will hear that station at the preset time.) Turn off the player before the preset time.

To stop play

Turn off the power.

Falling asleep to music



You can set the player to turn off automatically after 10, 20, 30, 60, 90 and 120 minutes, allowing you to fall asleep while listening to music.

Tips

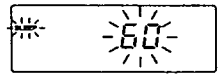
- The display window does not light while the sleep timer is on.
- You can combine the waking up timer with the sleeping timer. Set the waking up timer first (see page 21), turn on the power, and then set the sleep timer.
- You can prepare the different music for the waking up timer and the sleeping timer. However, you cannot, store different radio stations.
- You can set different volume for the waking up timer and the sleeping timer. For instance, you can sleep at lower volume and wake up at higher volume.

1 Play the music source you want.

2 Press SLEEP to display "SLEEP."

3 Press SLEEP to select the minutes until the player goes off automatically.

Each time you press the button, the indication changes as follows: "10" → "20" → "30" → "60" → "90" → "120" → "no indication".



If 4 seconds have passed after you pressed SLEEP, the minutes in the display are stored in memory.

The preset time has passed, then music fades out and the player goes off automatically.

To cancel the sleep function

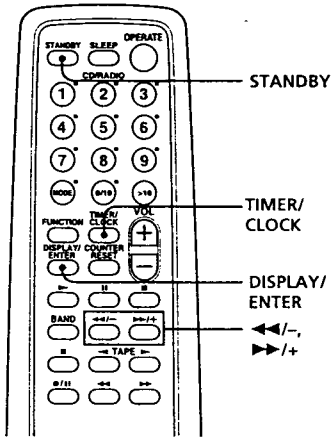
Press SLEEP to make "SLEEP" disappear.

To change the preset time

Do the steps 2 and 3 again.

Timer-recording radio programs

You can set timer to record the radio at a certain time. You can also record the sound of the component connected to the LINE IN jack, using the timer. Make sure you have set the clock (see "Setting the clock" on page 20.)



Note

You cannot preset recording timer and wake-up timer (page 21) at the same time.

Tip

When you receive the MW/LW program in step 1, press ●/II to check if the noise is heard. If so, press PLAY MODE/MONO/ST/ISS on the player to select the position that most decreases the noise.

Before you begin, make sure the ⏲ (clock) indication is not lit in the display. If it is lit, press STANDBY.

1 Tune in the radio station and insert a cassette for recording.

2 Press DIR MODE on the player to select direction of the tape.

	Display
One side	⇄
Both sides	⇉

3 Press TIMER/CLOCK to display the ⏲ indication.

Do the following operations by checking the display window.

4 Press ◀◀/– or ▶▶/+ until "REC" appears in the display, and press DISPLAY/ENTER.

5 Press ◀◀/– or ▶▶/+ until "RADIO" appears in the display, and press DISPLAY/ENTER.

When recording the sound of the component connected to the LINE IN jack, turn the jog dial to display "LINE," and press DISPLAY/ENTER.

Note

To change the recording side of the tape from the reverse side (◀) to the front side (▶), press STANDBY to make the ⏲ indication disappear, and press STANDBY again.

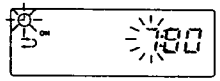
Tips

- The preset settings remain until you reset them.
- When you select both sides recording, the recording will stop after the both sides recording finishes so that accidental recording will not be made.
- The display window does not light while the recording timer is on.

6 Set the timer to the hour and the minutes you want to start recording.

① Press ◀◀/– or ▶▶/+ to set the hour and press DISPLAY/ENTER.

② Press ◀◀/– or ▶▶/+ to set the minutes and press DISPLAY/ENTER.



7 Set the timer to the hour and the minutes you want to stop recording. (Do as step 6.)

8 Press ◀◀/– or ▶▶/+ to set the volume you want, and press DISPLAY/ENTER.

9 Press STANDBY.

The power goes off. The ⏲ indication and the recording side of the tape (front side (▶)) appear in the display.

At the preset time, the power will go on and the recording will start. Then the power will go off at the preset time, and the player will enter the standby mode.

To check/change when the recording will start

Press TIMER/CLOCK, then DISPLAY/ENTER. Each time you press DISPLAY/ENTER, a stored setting lights up. Change the setting if you need to when the setting lights up. When you finish checking, press TIMER/CLOCK.

To listen to the radio, etc. before a timer-recording starts

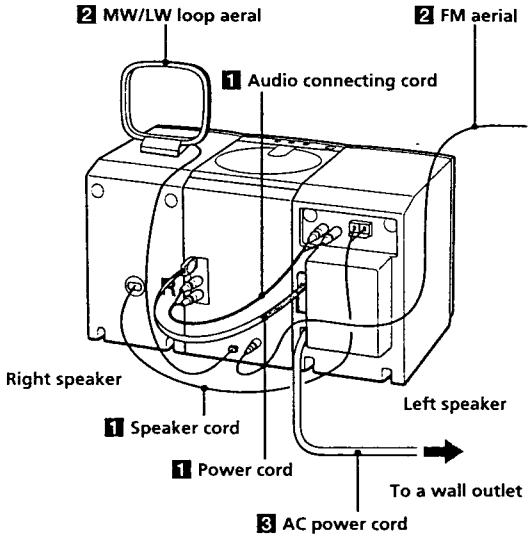
If you turn on the player, you can use it as usual. Before the preset time, tune in the station you want to record and turn off the power.

To stop timer-recording

Turn off the power.

Hooking up the system

Make sure you turn off the power before making any connections.

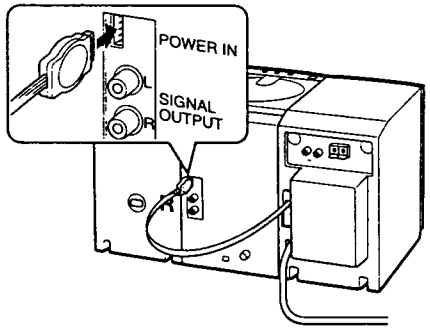


Note

Connect the right speaker for this unit only to the speaker terminals of the left speaker. If you connect any other speaker or equipment, malfunction may occur.

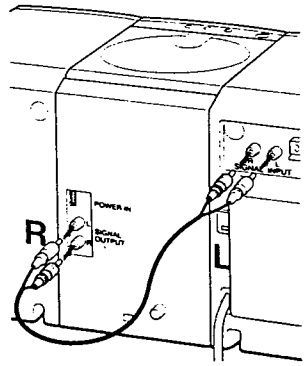
1 Hooking up the speakers

1 Connect the power cord of the left speaker to the POWER IN jack of the player.



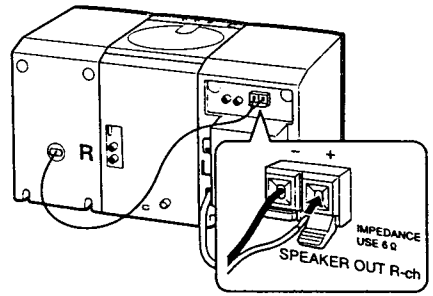
2 Connect the audio connecting cord (supplied) to the SIGNAL OUTPUT jacks of the player and the SIGNAL INPUT jacks of the left speaker.

Connect the white plugs to the L (left) jacks and the red plugs to the R (right) jacks.



3 Connect the speaker cord of the right speaker to the SPEAKER OUT terminals of the left speaker.

Connect the red wire to the (+) plus terminal, and the black wire to the (–) minus terminal.

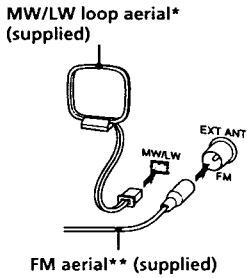


continued

Note

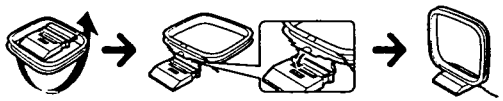
Keep the aerials away as far as possible from the speaker cords and other connecting cords. If you do not, noise may be heard.

2 Hooking up the aerials



*Reorient the aerial to improve broadcast reception.
**Keep the aerial as horizontal as possible.

Setting up the MW/LW loop aerial



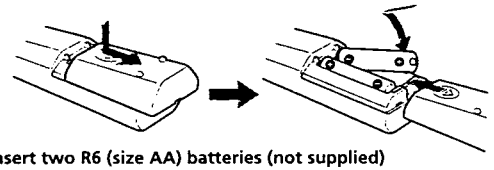
Tip

The sound quality may be changed depending on the polarity of the plug. Change the direction of inserting the plug and check the sound quality.

3 Connecting the AC power cord

Connect the AC power cord to the wall outlet.

4 Inserting batteries into the remote



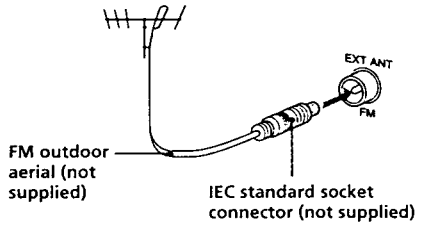
Insert two R6 (size AA) batteries (not supplied)

Replacing batteries

With normal use, the batteries should last for about six months. When the remote no longer operates the player, replace all the batteries with new ones.

To improve the FM reception

Disconnect the supplied FM aerial and connect the FM outdoor aerial (not supplied). If you use a distributor, you can also use the TV aerial.

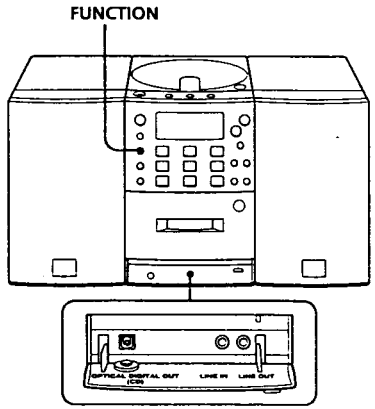


Connecting optional components

You can enjoy the sound from a VCR or MiniDisc player/ recorder through the speakers of this player.

Be sure to turn off the power of each component before making connections.

For details, refer to the instruction manual of the component to be connected.



Note

Connect the cables firmly to avoid any malfunction.

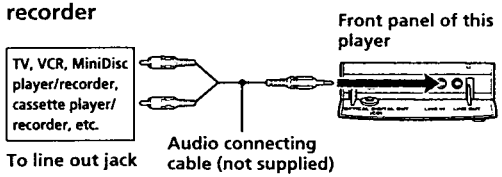
Tip

You can record the sound of the connected component. Insert a cassette, and while keeping ●/II pressed, press ► of the tape player.

Tip

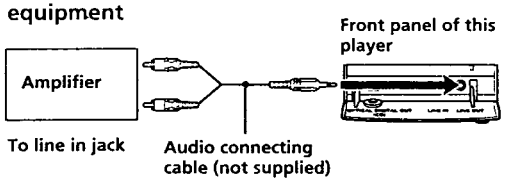
You can also record the sound of this player on another cassette recorder by connecting a cassette recorder to the LINE OUT jack of this player.

Listening to TV, VCR and MiniDisc player/ recorder



When connections are finished, turn on the player and press FUNCTION to make "LINE" appear in the display.

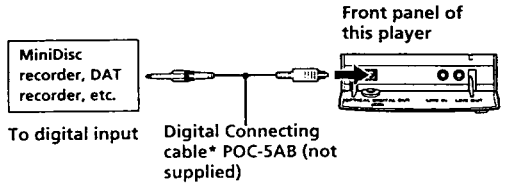
Listening through the speakers of other audio equipment



Notes

- As long as "CD" appears in the display, the optical digital output jack is in operation and the jack lights even if the CD is in stop mode.
- If you play a CD-ROM that is not for audio use, noise may be heard.

Recording a CD on a MiniDisc recorder and DAT recorder



When connections are finished, turn the power on and start recording.

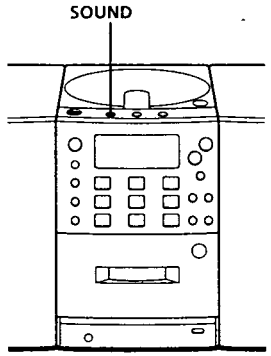
* Select a connecting cable depending on the type of the digital input jack of the recorder to be connected. For details, refer to the instruction manual of the component to be connected. The OPTICAL DIGITAL OUT (CD) jack of this unit is square-shaped jack.

The type of the jack of the component to be connected	Model number of the connecting cable
Optical miniplug (MiniDisc Walkman, etc.)	POC-5AB
L-type 7-pin connector (DAT Walkman, etc.)	POC-DA12M
Square-shaped optical connector (MiniDisc recorder, DAT recorder, etc.)	POC-10A

Selecting the audio emphasis

(Sound Mode/MEGA BASS)

You can adjust the audio emphasis of the sound you are listening to.



Selecting the sound characteristic

Press SOUND to select the audio emphasis you want.

Choose	To get
MEGA BASS SOUND	powerful, clean sounds, emphasizing low and high range audio "MEGA BASS" appears in the display.
SOUND	light, bright sounds emphasizing high and middle range audio
SOUND	the presence of vocals, stressing middle range audio
MEGA BASS SOUND	percussive sounds, emphasizing bass audio "MEGA BASS" appears in the display.
	the whole dynamic range for music such as classical music

Precautions

On safety

- As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the player, unplug the player, and have it checked by qualified personnel before operating it any further.

On power sources

- For AC operation, use the supplied AC power cord; do not use any other type.
- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or corrosion.
- The nameplate indicating operating voltage, power consumption, etc. is located at the rear of the left speaker.

On placement

- Do not leave the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place the player on an inclined or unstable place.
- Do not place anything within 10 mm of the side of the cabinet. The ventilation holes must be unobstructed for the player to operate properly and prolong the life of its components.
- If the player is left in a car parked in the sun, be sure to choose a location in the car where the player will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the player to prevent possible damage from the magnet.
- When carrying the player, do not hold the lid of the CD compartment. If you do so, the lid may open so that you may drop the player.

On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the CD player section. Should this occur, the player will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.
- If the player has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

continued

Notes on CDs

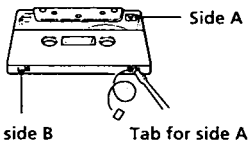
- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.

- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
- Do not stick paper or sticker on the CD, nor scratch the surface of the CD.
- After playing, store the CD in its case.

If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

Notes on cassettes

- Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab with adhesive tape.



- To record on a tape with its tab broken off, cover the respective tab hole for side A or B with adhesive tape.
- The use of a cassette with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

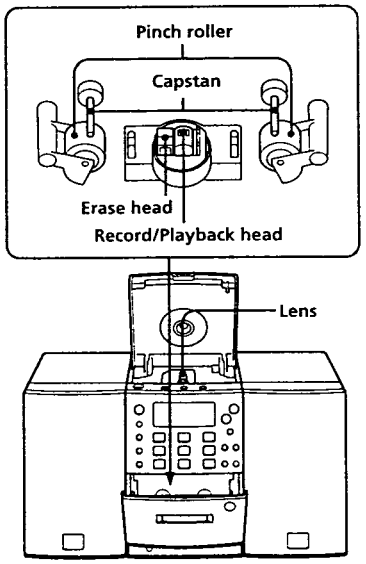
Maintenance

Cleaning the lens

If the lens becomes dirty, it may cause a skipping of sound during CD operation. Clean with a commercially available blower.

Cleaning the tape heads and tape path

Wipe the heads, the pinch rollers and the capstans with a cleaning swab slightly moistened with cleaning fluid or alcohol after every 10 hours of operation for optimum playback and recording quality. To make the best possible recording, however, we recommend that you clean all surfaces over which tape travels before each recording.



After cleaning, insert a tape when the areas cleaned are completely dry.

Demagnetizing the tape heads

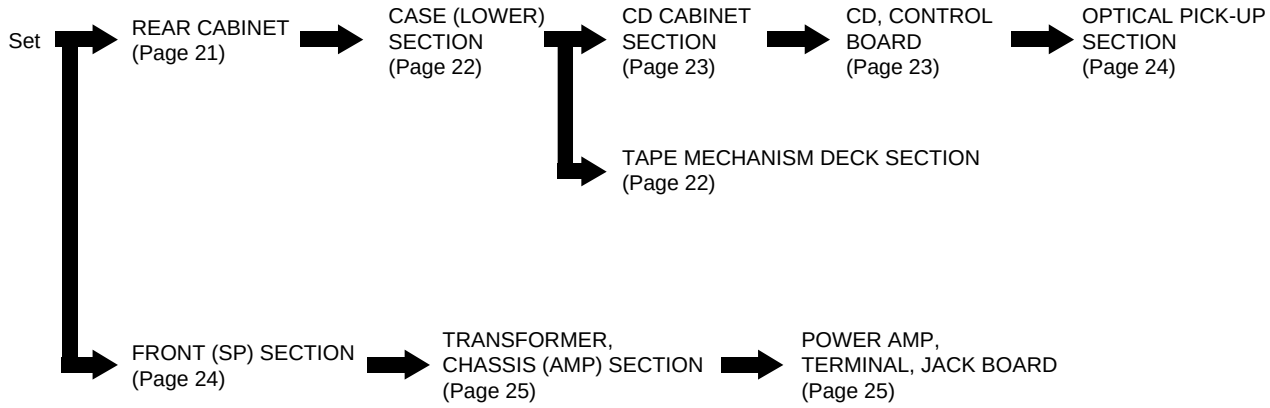
After 20 to 30 hours of use, enough residual magnetism will have built up on the tape heads to begin to cause loss of high frequency sound and hiss. At this time, you should demagnetize the heads and all metal parts in the tape path with a commercially available tape head demagnetizer.

Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine.

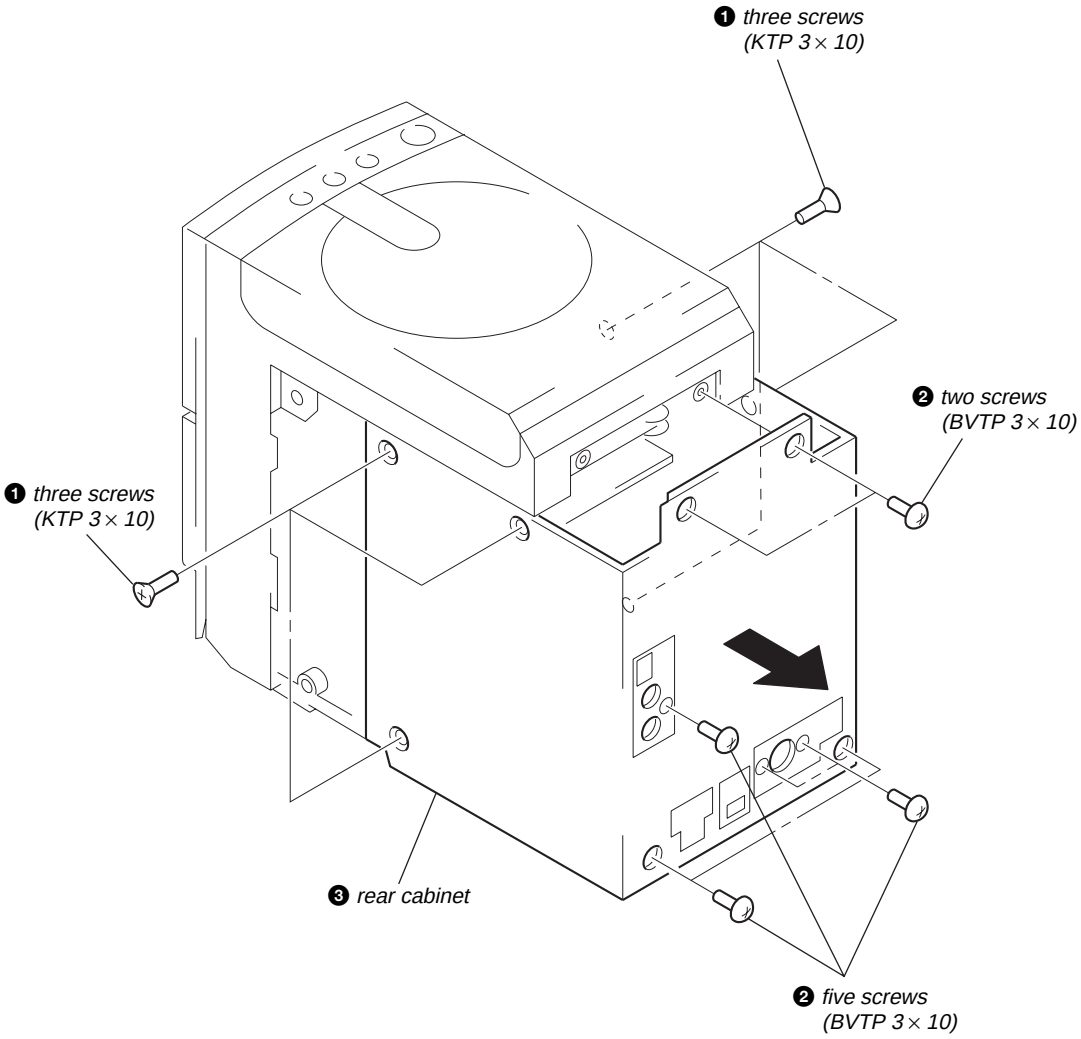
SECTION 3
DISASSEMBLY

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

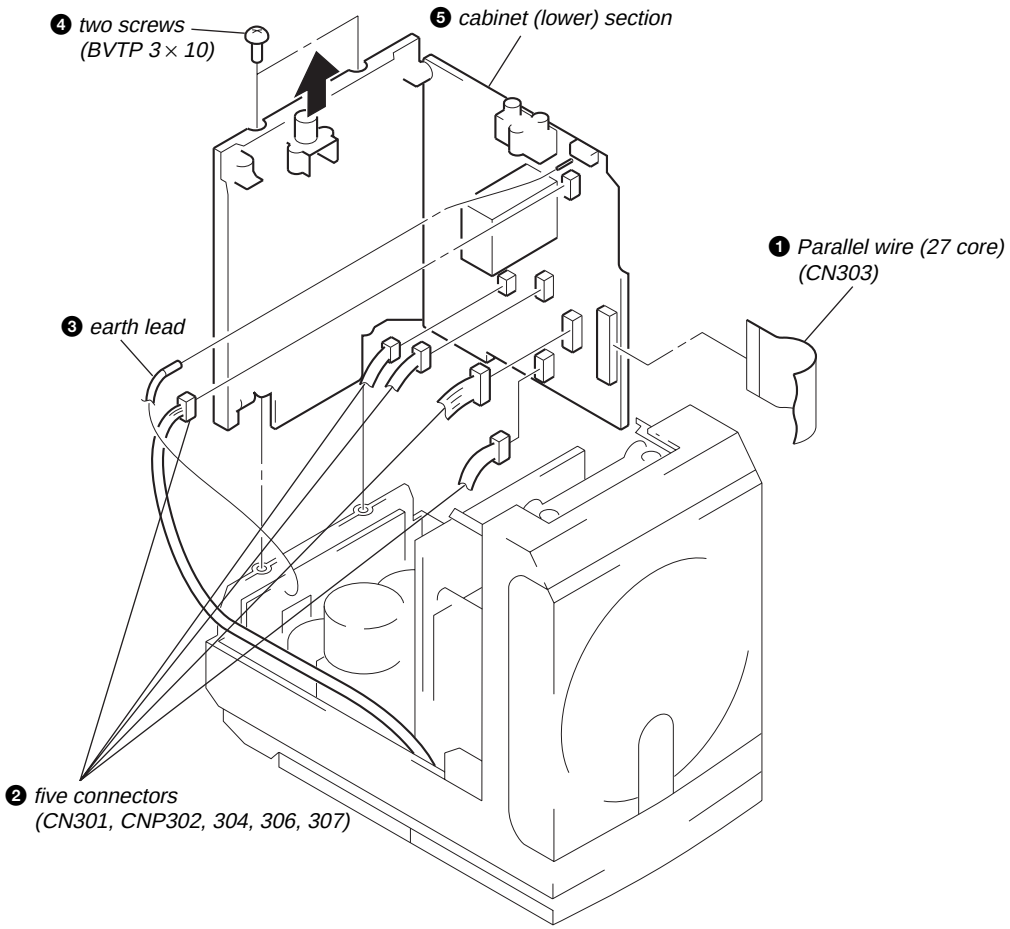


Note: Follow the disassembly procedure in the numerical order given.

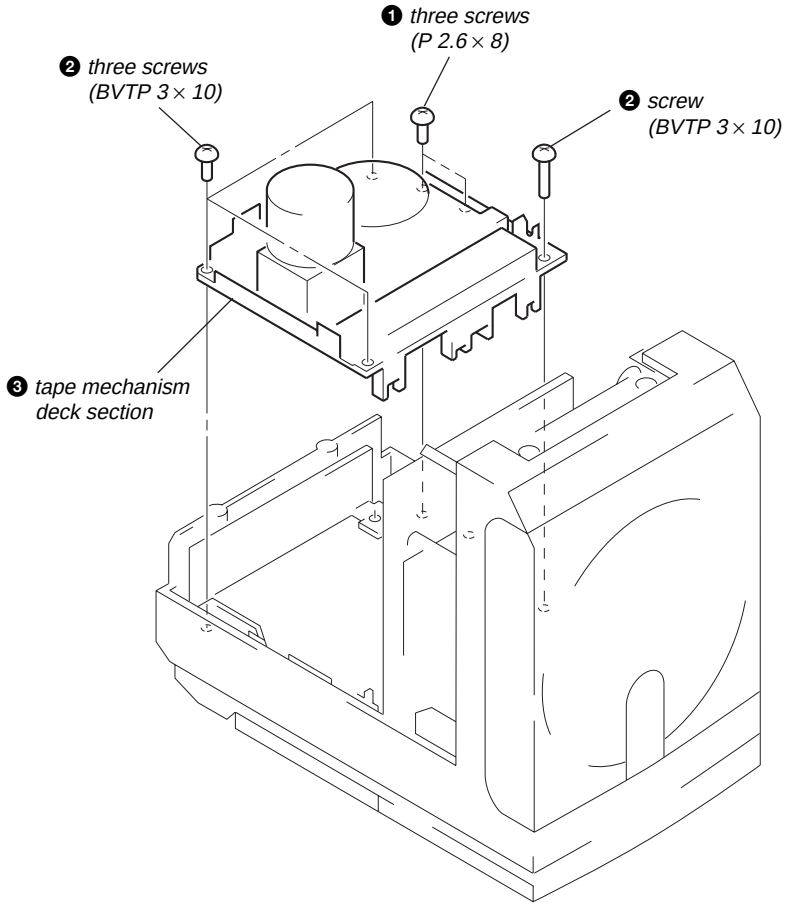
REAR CABINET



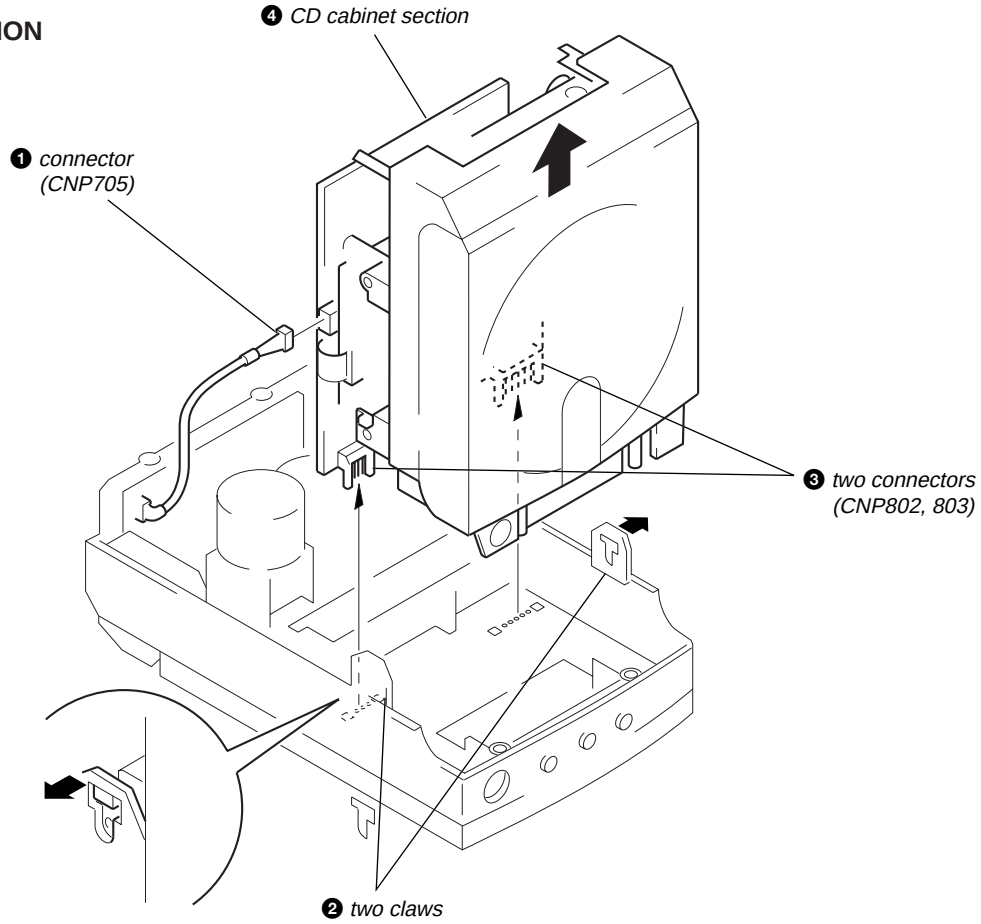
CASE (LOWER) SECTION



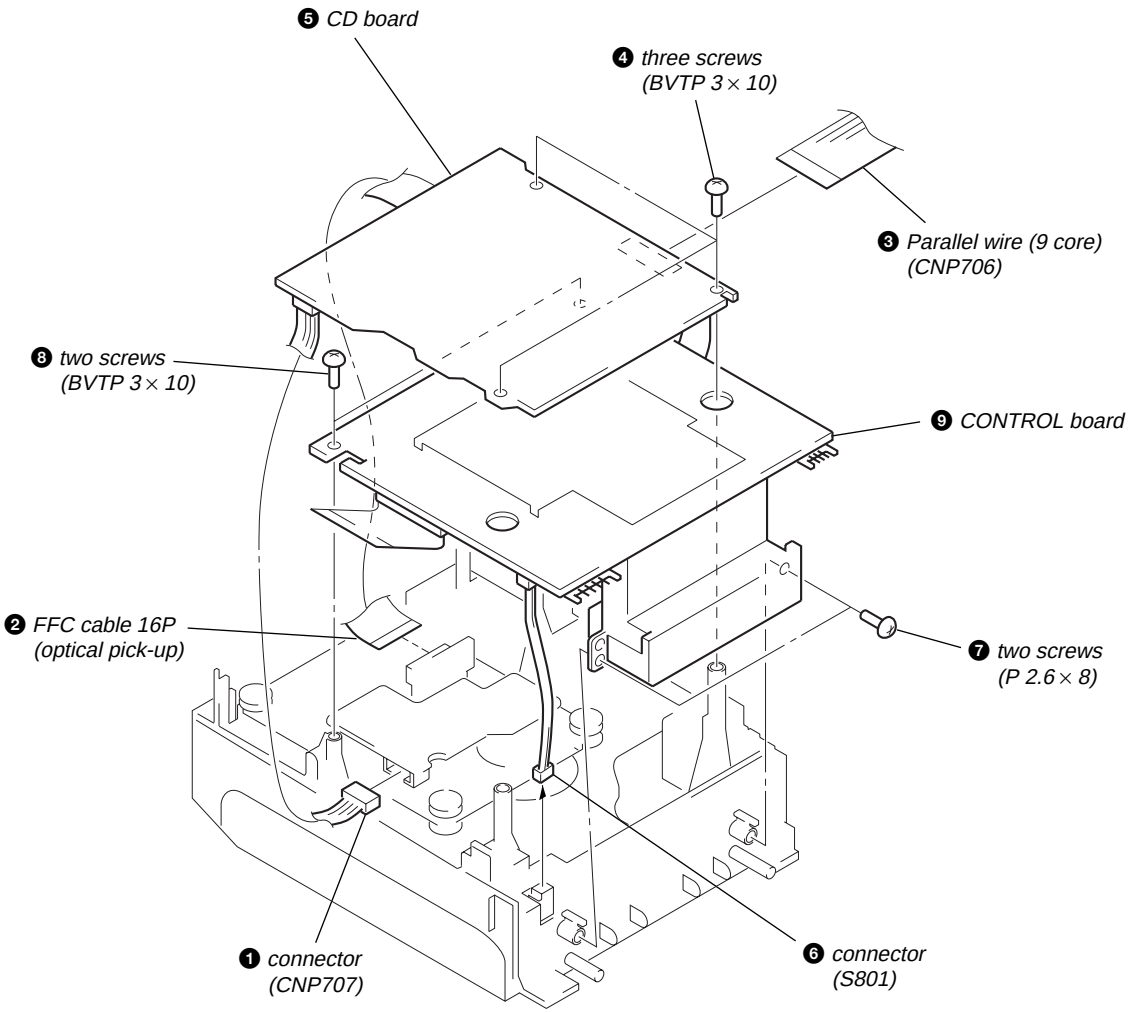
TAPE MECHANISM DECK SECTION



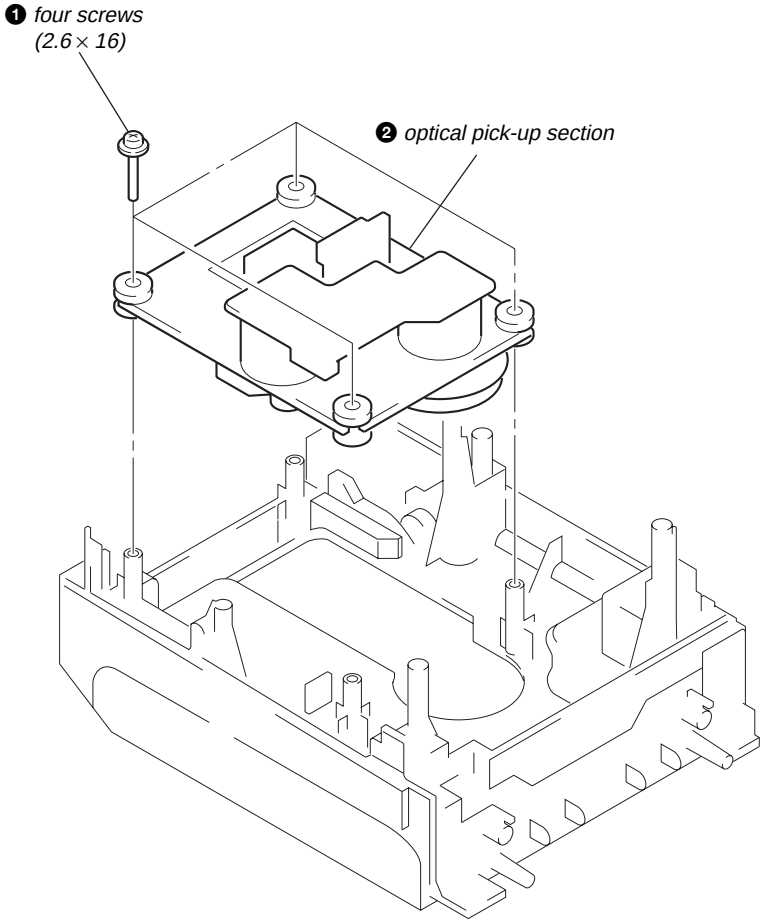
CD CABINET SECTION



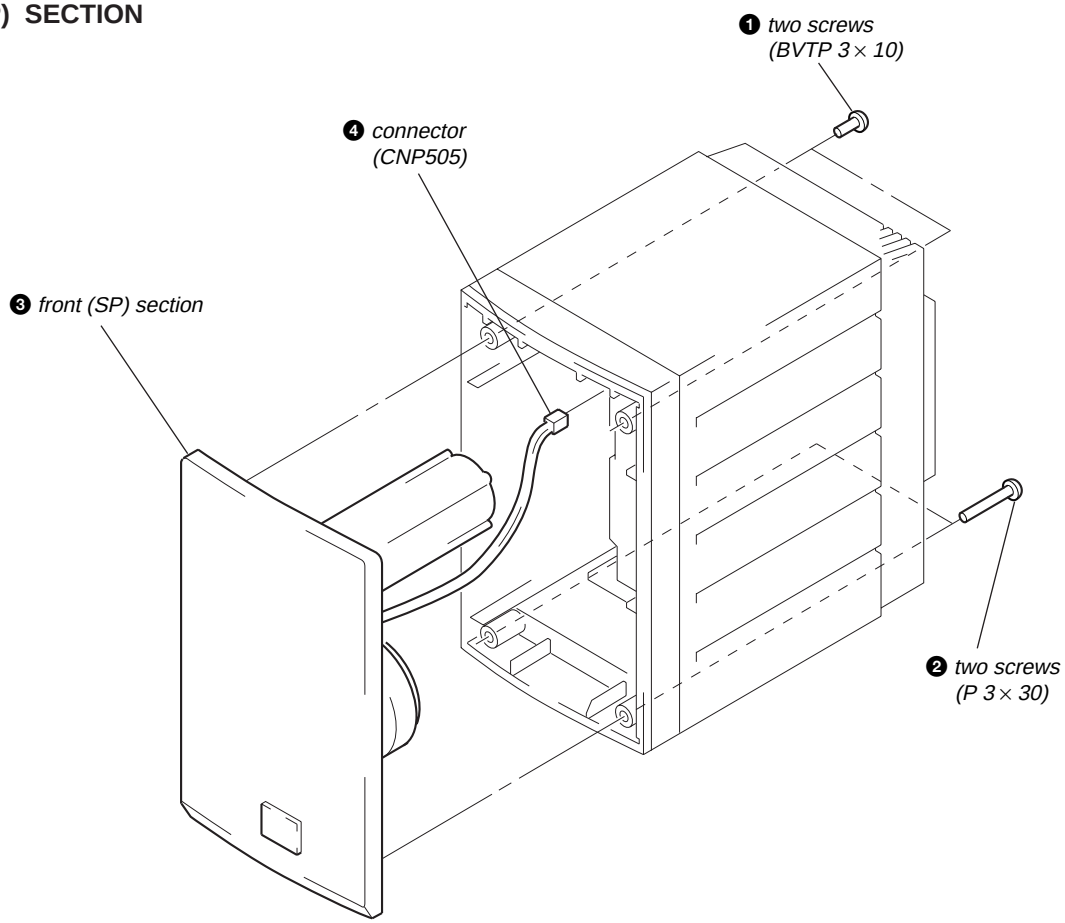
CD, CONTROL BOARD



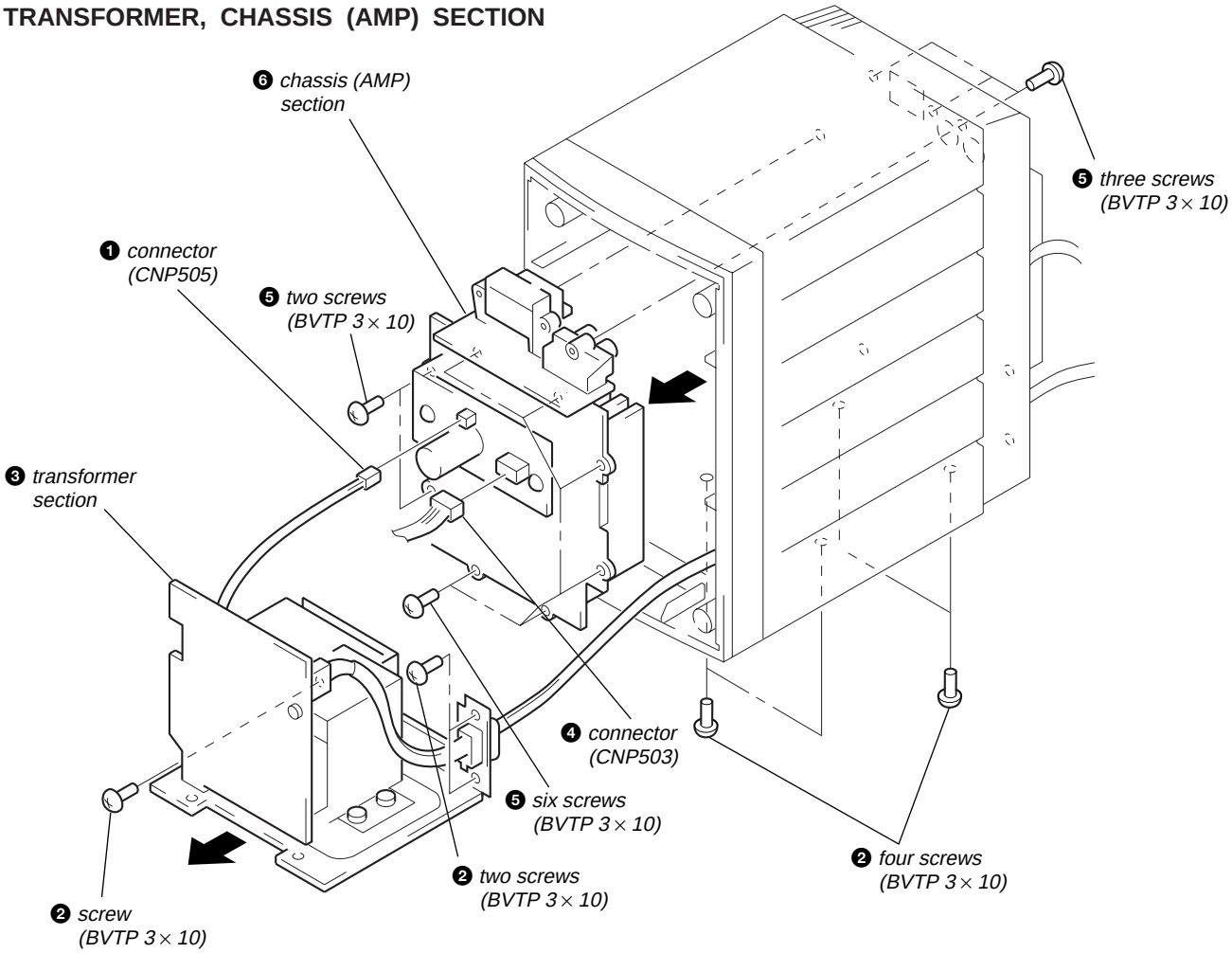
OPTICAL PICK-UP SECTION



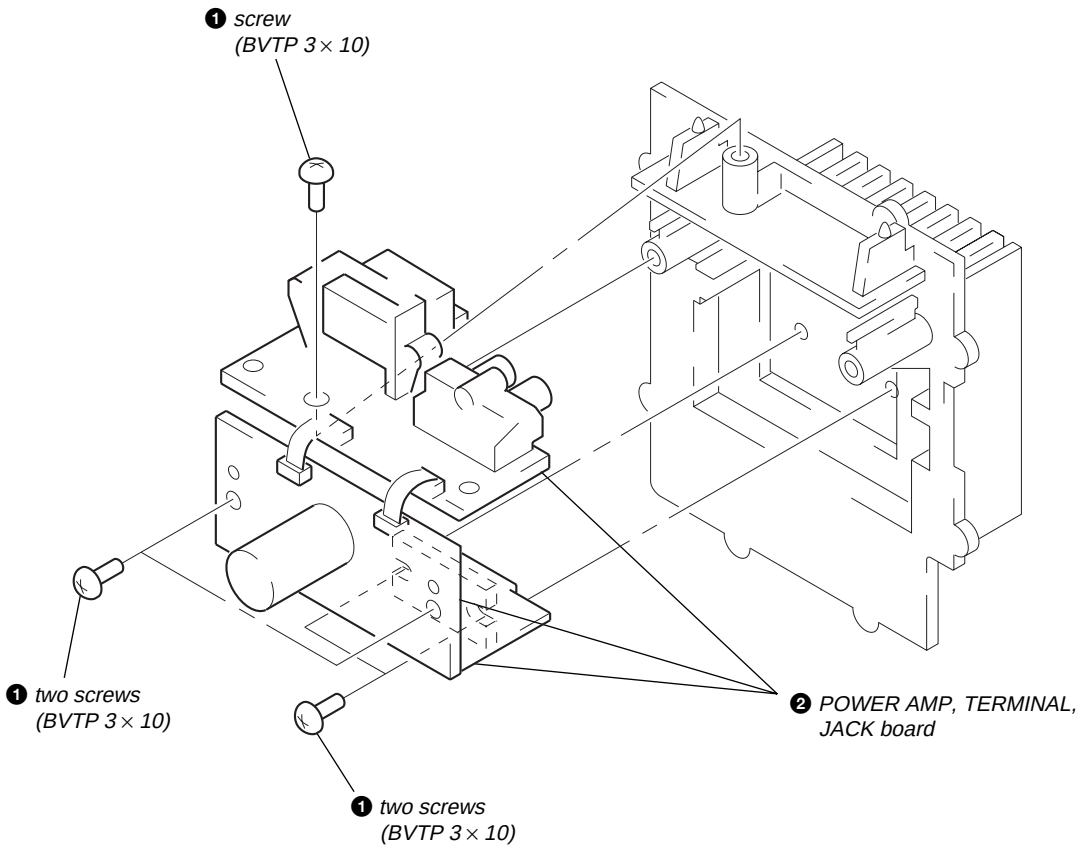
FRONT (SP) SECTION



TRANSFORMER, CHASSIS (AMP) SECTION



POWER AMP, TERMINAL, JACK BOARD



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback head pinch roller
   erase head rubber belts
   capstan idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	30-70 g•cm (0.42-1.02 oz•inch)
FWD Back tension		2.0-6.0 g•cm (0.028-0.076 oz•inch)
FF	CQ-201B	80-170 g•cm (1.12-2.38 oz•inch)
REW	CQ-201B	80-170 g•cm (1.12-2.38 oz•inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 90 g (3.17 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

TAPE DECK SECTION **0 dB=0.775 V**

1. The adjustments should be perfomed in the order given in the service manual. (As a general rule. Playback circuit adjustment should be completed before performing recording circuit adjustment.)
2. The adjustments should be performed for both L-ch and R-ch unless otherwise indicated.

Standard Output Level

	SP OUT	PHONES
Load impedance	6Ω	32Ω
Output level	0.775 V (0 dB)	0.25 V (–10 dB)

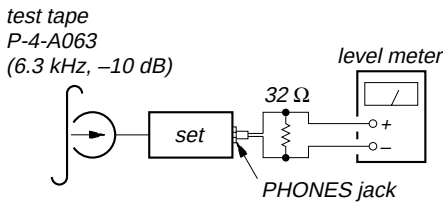
Test Tape

Type	Signal	Used for
WS-48B	3 kHz, 0 dB	Tape speed adjustment
P-4-A063	6.3 kHz, –10 dB	Head azimuth adjustment

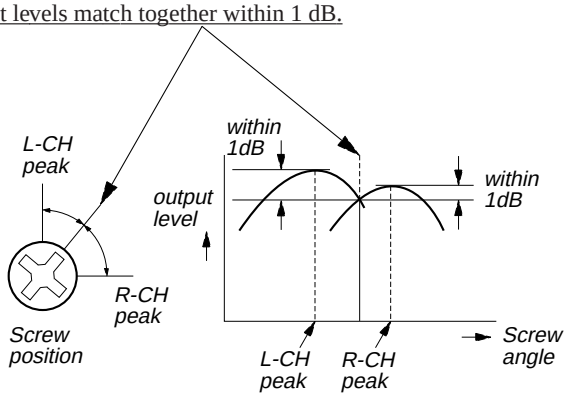
Record/Playback Head Azimuth Adjustment

Procedure:

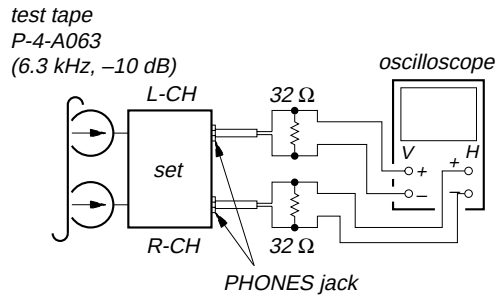
1. Mode: playback

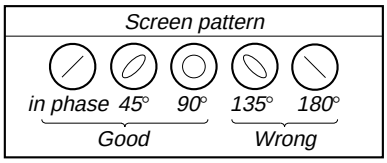


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



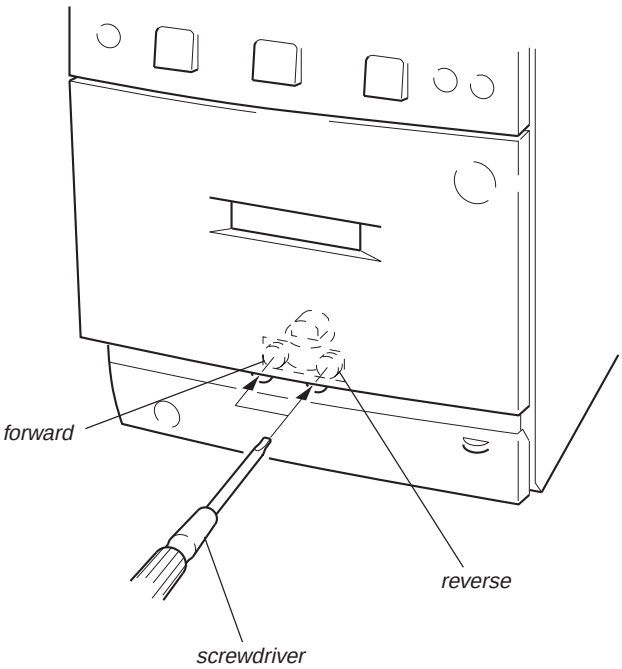
3. Phase Check
   Mode: playback





4. After the adjustment, lock the screws with locking compound.

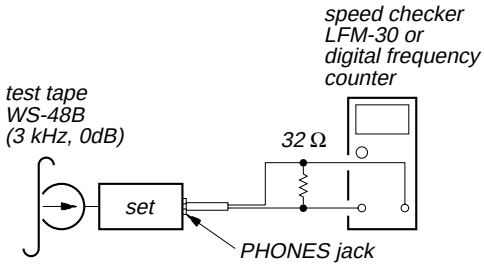
Adjustment Location:



Tape Speed Adjustment

Procedure:

Mode: playback

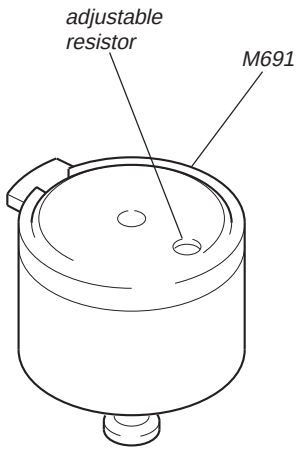


Adjustment Values:

Speed checker	Digital frequency counter
–1% to +1%	2,970 to 3,030 Hz

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

Adjustment Location:



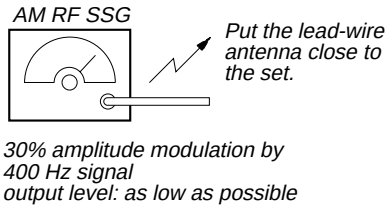
TUNER SECTION

Precautions in Repairing

Note: As a FM front-end (TU1) is difficult to repair if faulty, replace it with new one.

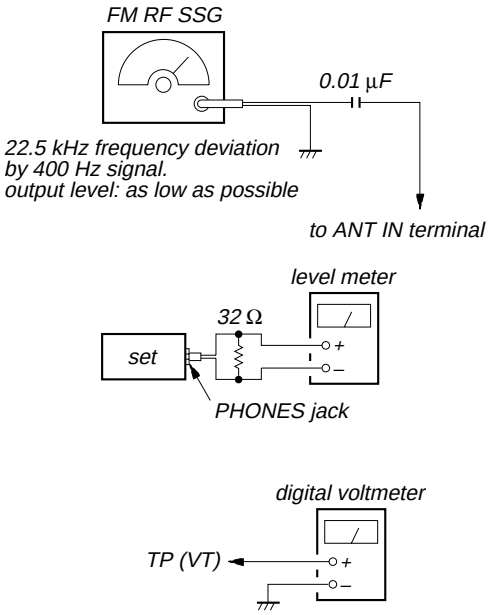
[AM]

FUNCTION Switch: RADIO
BAND Switch: AM, MW, LW



[FM]

FUNCTION Switch: RADIO
BAND Switch: FM



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

- Abbreviation
  D305: PMC-D305
  D305L: PMC-D305L

AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter.	
CFT1	450 kHz

(D305)

AM FREQUENCY COVERAGE CONFIRM		
Confirm for a reading on digital voltmeter.		
Confirm	530 kHz <531 kHz>	1.0 ±0.5 V
Confirm	1,710 kHz <1611 kHz>	5.0 ± 1.0 V <4.8 ± 1.0 V>

Note: Not use the AM RF signal generator in this confirm.
< >: Australian model

(D305)

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3	620 kHz
CT2	1,400 kHz

(D305L)

MW FREQUENCY COVERAGE CONFIRM		
Confirm for a reading on digital voltmeter.		
Confirm	531 kHz	0.85 ± 0.5 V
Confirm	1611 kHz	6.8 ± 1.5 V

Note: Not use the AM RF signal generator in this confirm.

(D305L)

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3	621 kHz
CT4	1,404 kHz

(D305L)

LW FREQUENCY COVERAGE ADJUSTMENT		
Adjust for a reading on digital voltmeter.		
Confirm	153 kHz	0.7 ± 0.5 V
L4	279 kHz	7.5 ± 0.2 V

Note: Not use the AM RF signal generator in this adjustment.

(D305L)

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L5	162 kHz
CT5	261 kHz

(D305)

FM FREQUENCY COVERAGE ADJUSTMENT		
Adjust for a reading on digital voltmeter.		
L2	87.5 MHz	1.6 ± 0.4 V
Confirm	108 MHz	6.5 ± 0.5 V

Note: Not use the FM RF signal generator in this adjustment.

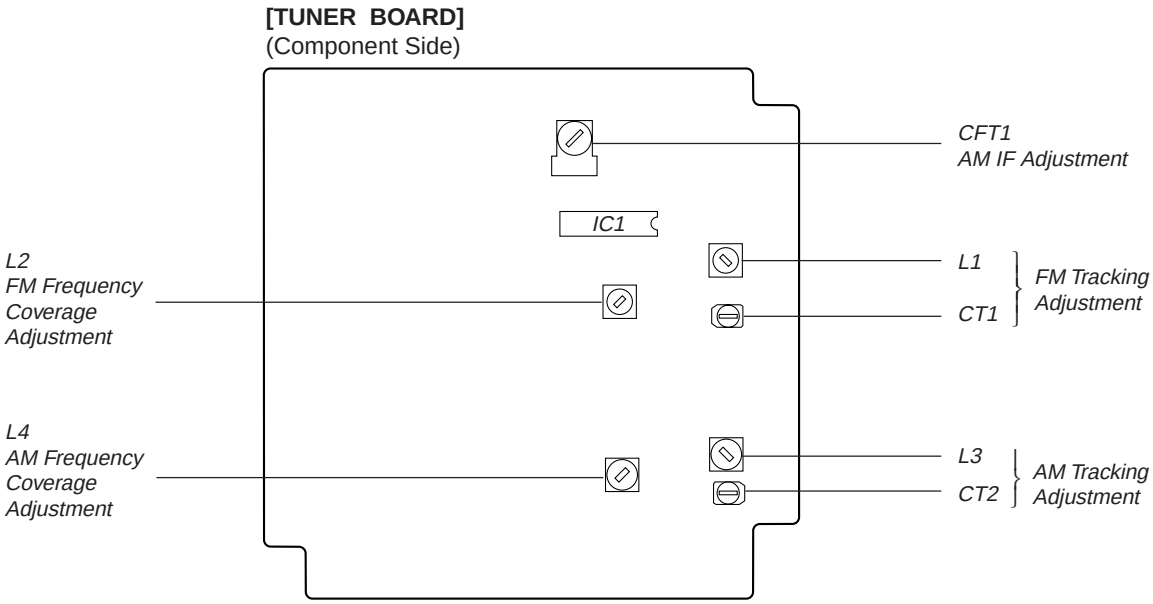
(D305)

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	87.5 MHz
CT1	108 MHz

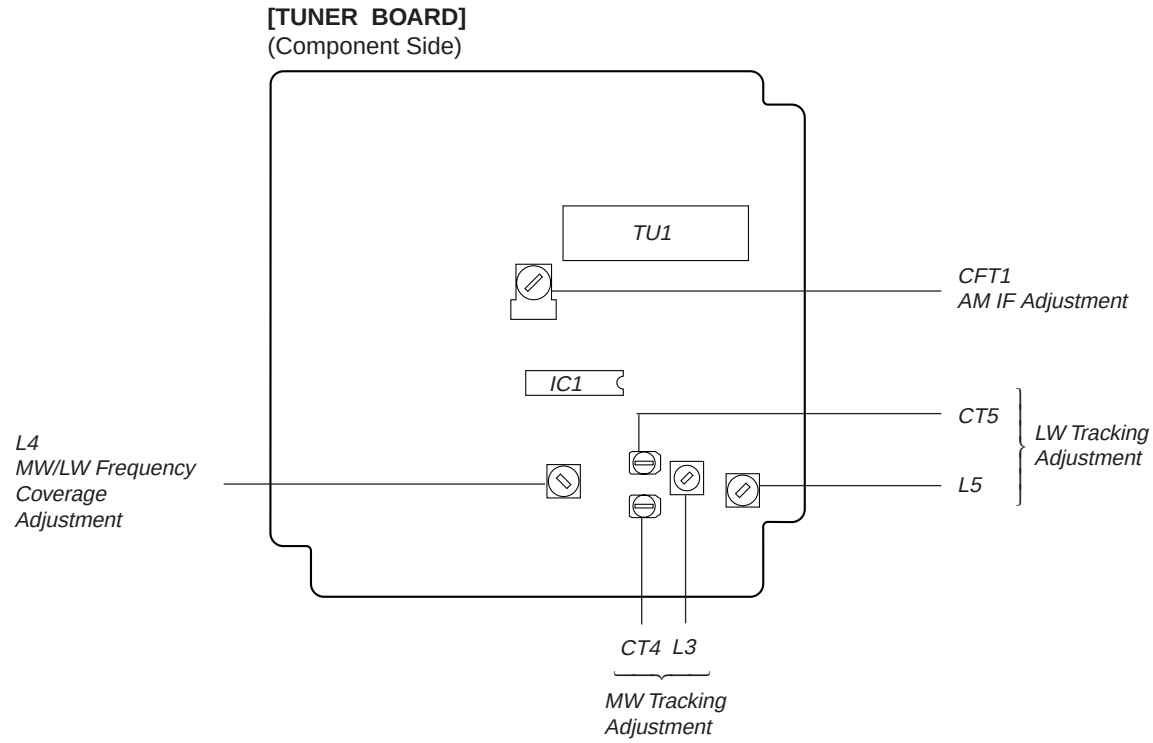
Adjustment Location: TUNER board (See page 29.)

Adjustment Location:

• PMC-D305



• PMC-D305L



CD SECTION

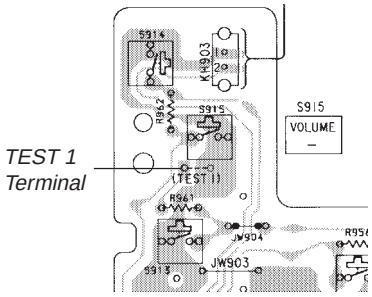
Notes on Adjustment

1. Perform adjustment in test mode.
   After adjustments, be sure to release test mode.
2. Perform adjustments in the order given.
3. Use the disc (YEDS-18. Part No. 3-702-101-01) only when so indicated.

How to Put the Set into Test Mode

1. Disconnect an AC plug cord.
2. Turn on the power while shorting the test point (TEST1). (Connect the AC plug cord)
3. Opening the shorted test point puts the set into Test Mode.

[SW (A) BOARD] (Conductor Side)



How to Release the Test Mode

1. Press the OPERATE button to put the set into the standby status.
2. Finally, disconnect and connect the AC plug cord.

Before Begining Adjustment

Put the set into test mode and perform the following checks. Repair if there are any problems.

• Sled Motor Check

Press the ▶▶I, I◀◀ buttons and confirm that the optical pick-up moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises.

▶▶I : Optical pick-up moves to the outer circumference
I◀◀ : Optical pick-up moves to the inner circumference

• Focus Search Check

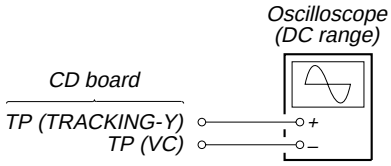
1. Press the ► button. (Focus search operation is performed continuously.)
2. Look at the optical pick-up objective lens and confirm that it moves up and down smoothly, when no catching or abnormal noises.
3. Press the ■ button.
   Confirm that focus search operation stops. If it does not , press the ■ button again longer.

Note: When the malfunction is occurred by mis-passing other keys, turn off the power and check again from making the test mode.

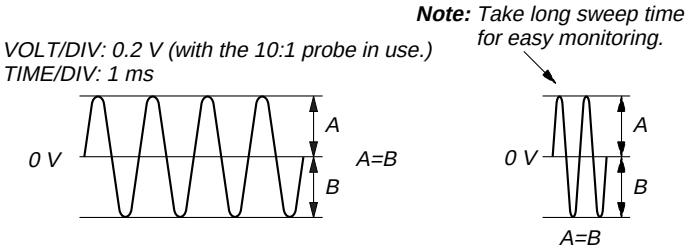
E-F Balance Adjustment

This adjustment is to be done when the optical pick-up is replaced.

Procedure:



1. Connect the oscilloscope to TP (TRACKING-Y) and TP (VC) on the CD board.
2. Insert the disc (YEDS-18) in and close the lid for CD.
3. Put the set into test mode.
4. Press the ▶▶I and I◀◀ buttons to move the optical pick-up to the center.
5. Press the ► button.
   [From focus searching, focus is turned ON while entering CLV drawing-in mode. Tracking and sled are turned OFF.]
6. Adjust RV703 so that the oscilloscope traverse waveform is symmetrical, as shown in the figure below.



Adjustment value: 0.4 ± 0.2 Vp-p (A + B)

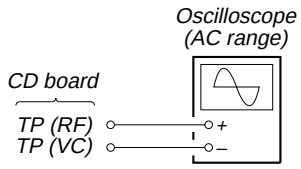
7. Release the test mode after adjustment is completed.

Adjustment Location: CD board (See page 33.)

Focus Bias Adjustment

This adjustment is to be done when the optical pick-up is replaced.

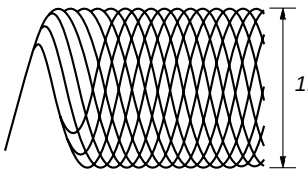
Procedure:



1. Connect the oscilloscope TP (RF) and TP (VC) on the CD board.
2. Insert the disc (YEDS-18) in and close the lid for CD.
3. Put the set into test mode. (See page 30.)
4. Press ▶▶I and I◀◀ buttons to move the optical pick-up to the center. (Move the optical pick-up to the music area on the disc to enable easy visibility of the eye pattern.)
5. Press the ► button.
   [From focus searching, focus is turned ON while entering CLV drawing-in mode. Tracking and sled are turned OFF.]
6. Press the ► button.
   [Both tracking and sled are turned ON.]
7. Adjust RV701 so that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (≈) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

VOLT/DIV : 0.2 V (With the 10:1 probe in use)
TIME/DIV : 500 ns



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

8. Release the test mode after adjustment is completed.

Adjustment Location: CD board (See page 33.)

REFERENCE

Focus/Tracking Gain Adjustment

A frequency responce analyzer is necessary in order to perform this adjustment exactly.
However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.
Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.
However, as these reciprocate, the adjustment is at the point where both are satisfied.

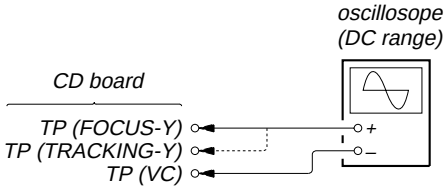
- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

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

The following is a simple adjustment method.

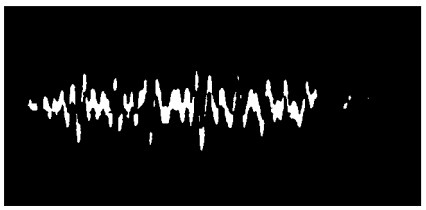
– Simple Adjustment –

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the primary adjustment are only a little different, return the controls to the original position.



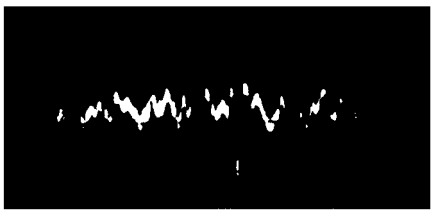
Procedure:

1. Keep the set horizontal.
   If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
2. Connect the oscilloscope TP (FOCUS-Y) and TP (VC) on the CD board.
3. Insert the disc (YEDS-18) in and close the lid for CD.
4. Put the set into test mode. (See page 30.)
5. Press the ► button.
   [From focus searching, focus is turned ON while entering CLV drawing-in mode. Tracking and sled are turned OFF.]
6. Press the ► button.
   [Both tracking and sled are turned ON.]
7. Adjust RV702 so that the waveform is as shown in the figure below. (Focus gain adjustment)

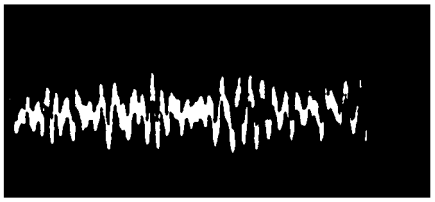


• Inconnect Examples (DC level changes more than on adjusted waveform)

low focus gain



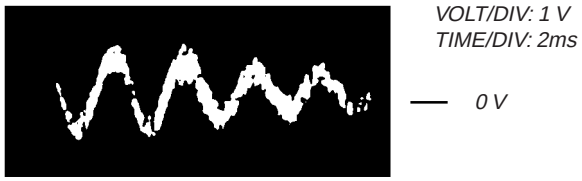
high focus gain



8. Connect the oscilloscope to TP (TRACKING-Y) and TP (VC) on the CD board.
9. Adjust RV704 so that the waveform is as shown in the figure below. (tracking gain adjustment)

• Incorrect Examples (fundamental wave appears)

low tracking gain



high tracking gain
high fandamental wave than for low gain

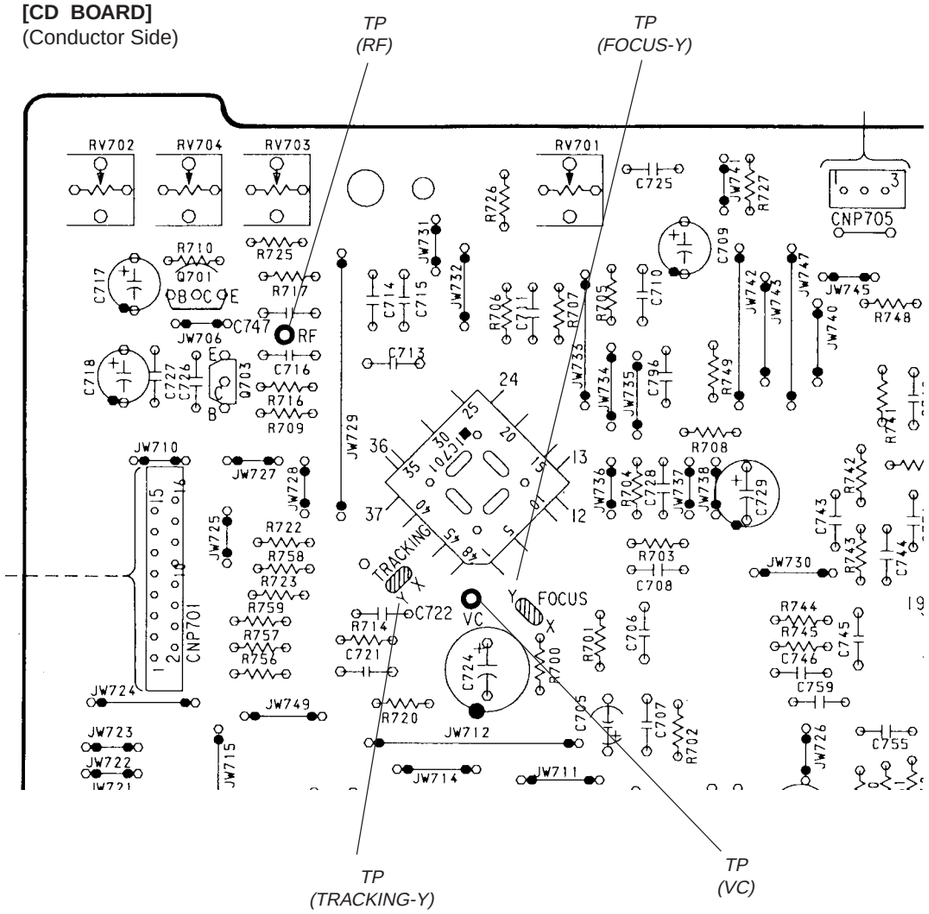
Note:
VOLT/DIV: with the 10:1 probe in used.

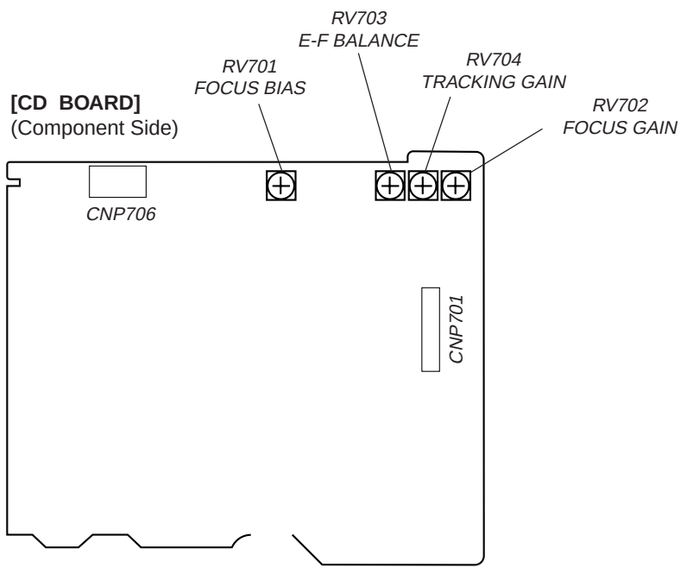
10. Release test mode after adjustment is completed.

Adjustment Location: CD board (See page 33.)

Connection and Adjustment Location:

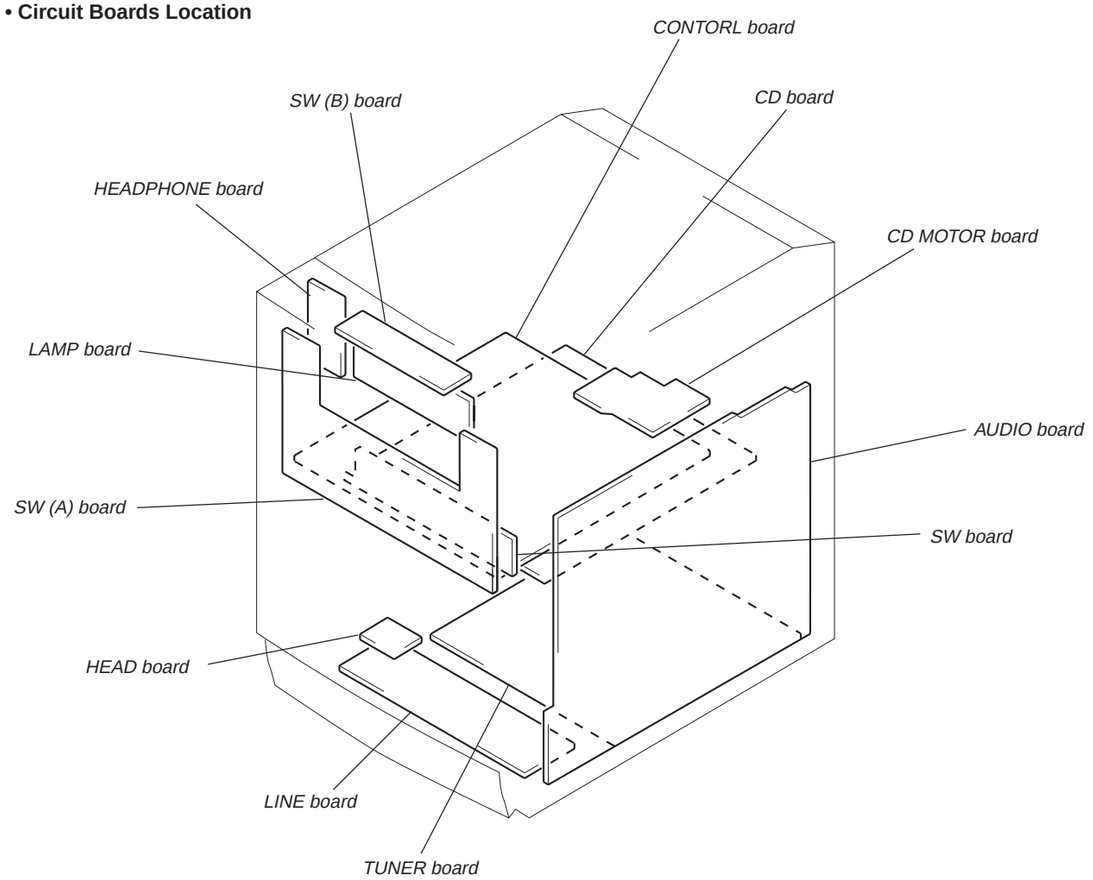
[CD BOARD]
(Conductor Side)

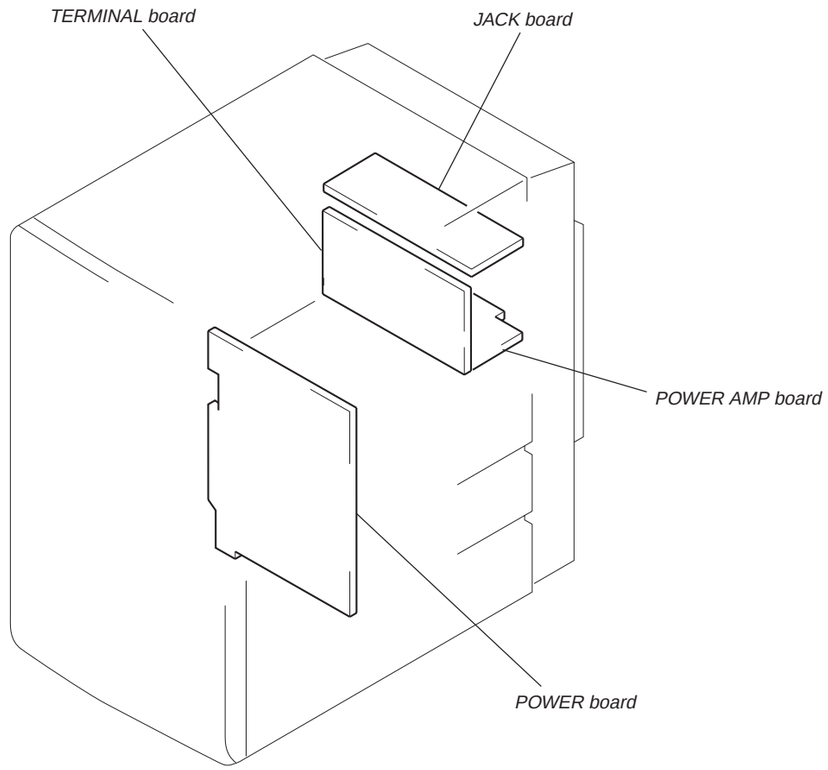




SECTION 6
DIAGRAMS

• Circuit Boards Location



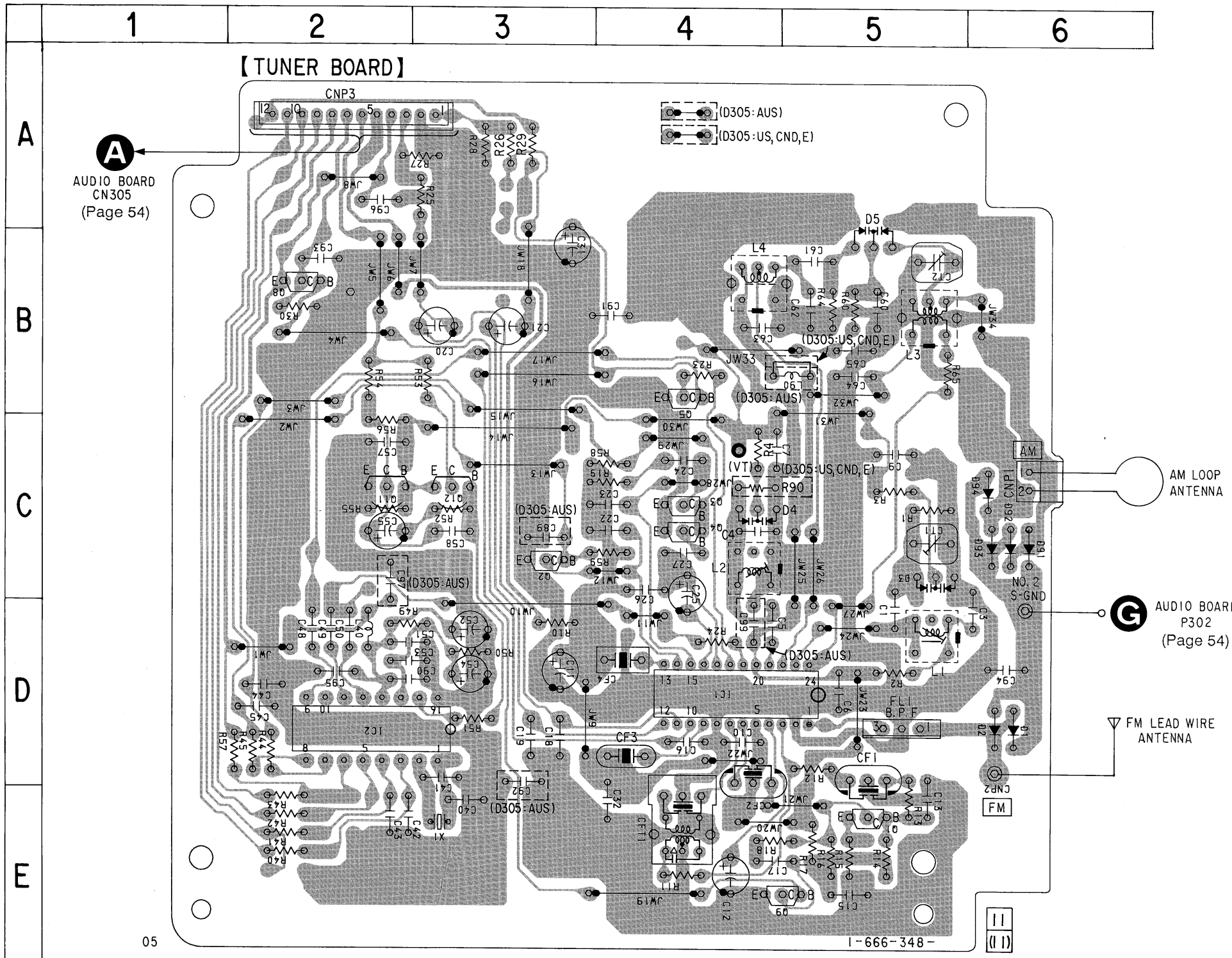


6-1. PRINTED WIRING BOARD – TUNER Section – (PMC-D305)

• See page 34 for Circuit Boards Location.

• **Semiconductor Location**

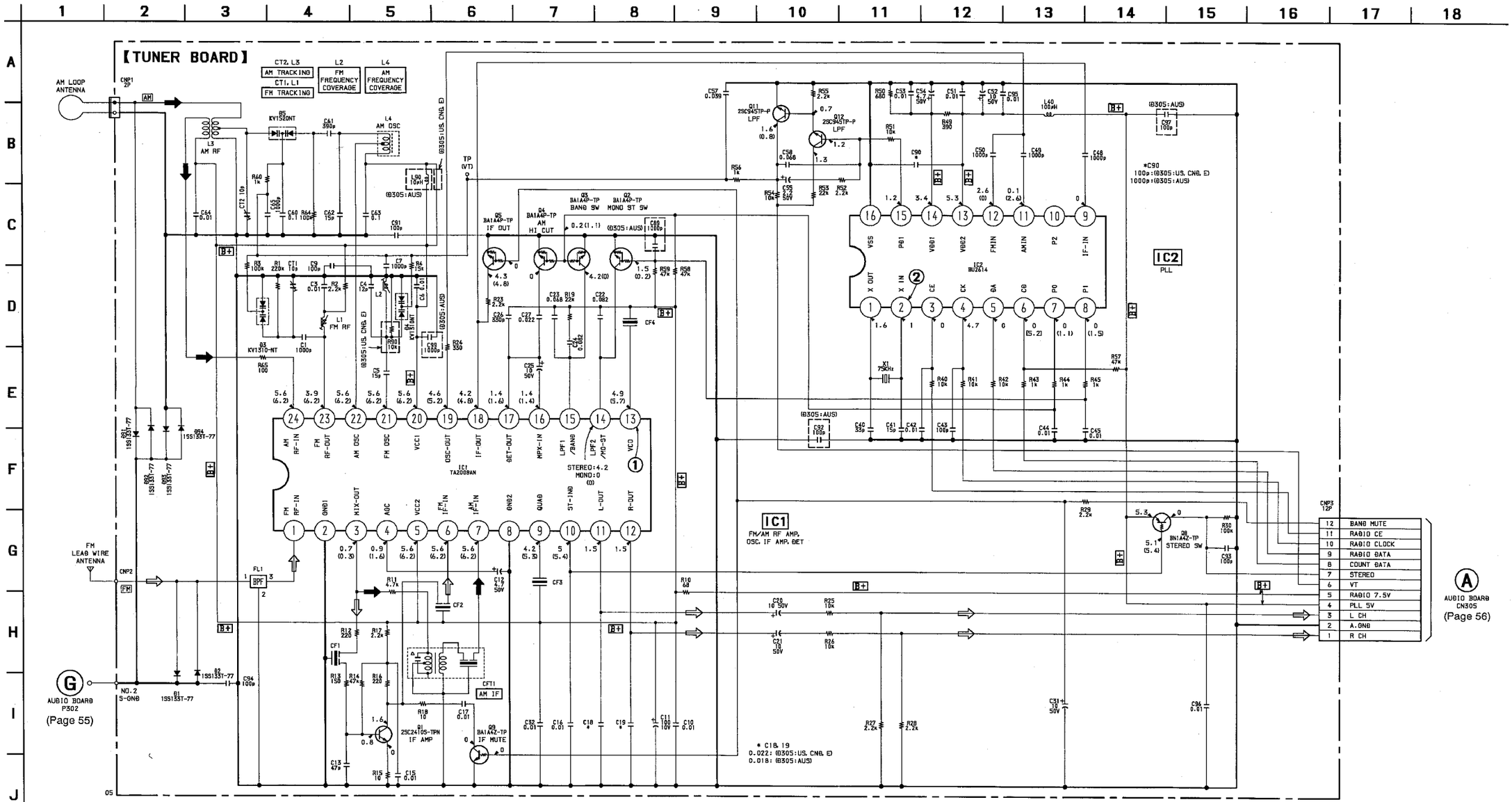
Ref. No.	Location
D1	D-6
D2	D-6
D3	C-5
D4	C-4
D5	B-5
D91	C-6
D92	C-6
D93	C-6
D94	C-6
IC1	D-4
IC2	D-2
Q1	E-5
Q2	C-3
Q3	C-4
Q4	C-4
Q5	B-4
Q8	B-2
Q9	E-5
Q11	C-2
Q12	C-3



Note on Printed Wiring Board:

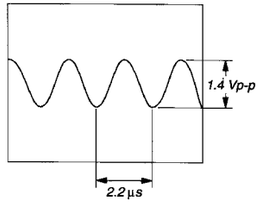
- ——o—— : parts extracted from the component side.
- ⊡ : indicates side identified with part number.
- △ : internal component.
- ▨ : Pattern from the side which enables seeing.
- Abbreviation
  Aus : Australian

6-2. SCHEMATIC DIAGRAM – TUNER Section – (PMC-D305) • See page 45 for IC Block Diagrams.

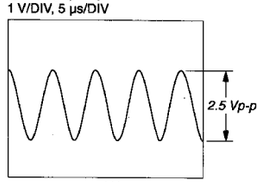


• Waveforms

❶ IC1 ⑱ (VCO)
1 V/DIV, 2 µs/DIV



❷ IC2 ② (X IN)
1 V/DIV, 5 µs/DIV



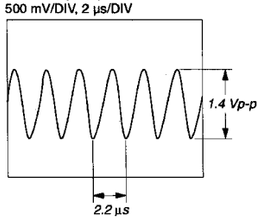
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10 MΩ). 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.
  ⇨ : FM
  ➡ : AM
- Abbreviation
  AUS : Australian

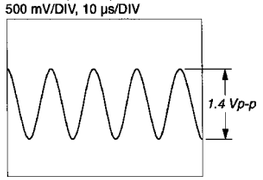
6-3. SCHEMATIC DIAGRAM – TUNER Section – (PMC-D305L) • See page 45 for IC Block Diagrams.

• **Waveforms**

❶ IC1 ⑱ (VCO)
500 mV/DIV, 2 µs/DIV

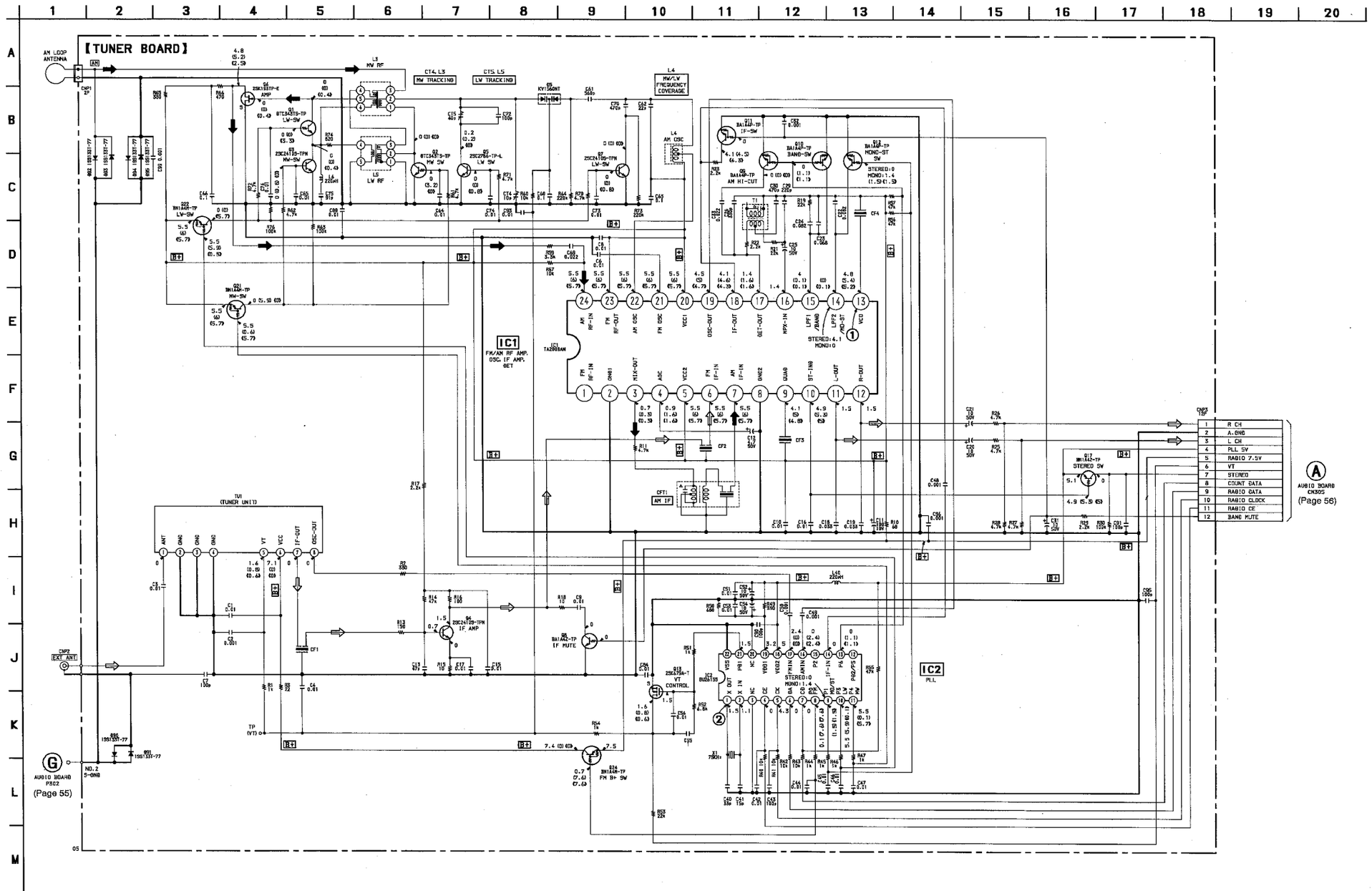


❷ IC2 ① (X OUT)
500 mV/DIV, 10 µs/DIV



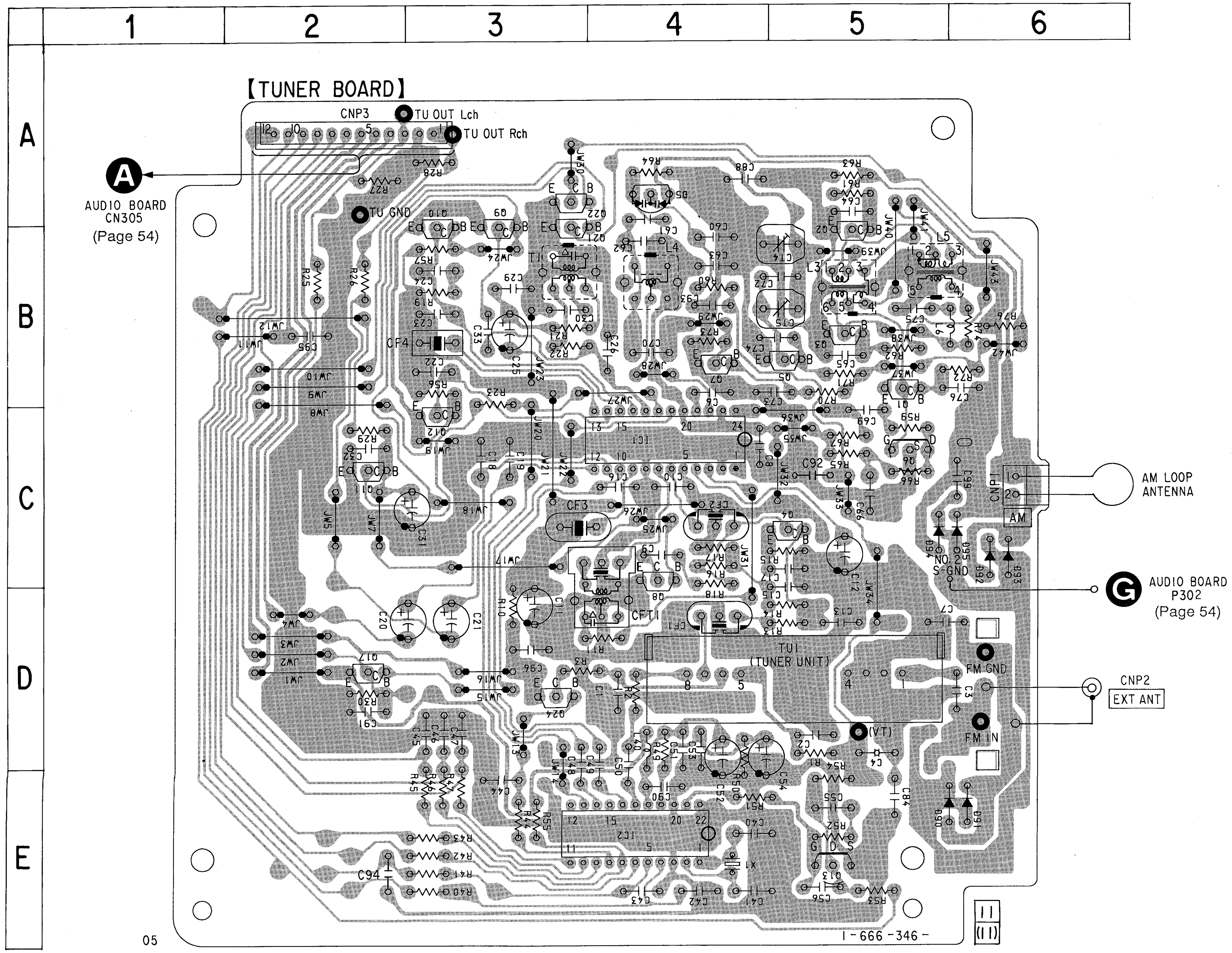
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▬ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : MW
  << >> : LW
- Voltages are taken with a VOM (Input impedance 10 MΩ). 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.
  ⇨ : FM
  ➡ : MW/LW



6-4. PRINTED WIRING BOARD – TUNER Section – (PMC-D305L)

• See page 34 for Circuit Boards Location.



• **Semiconductor Location**

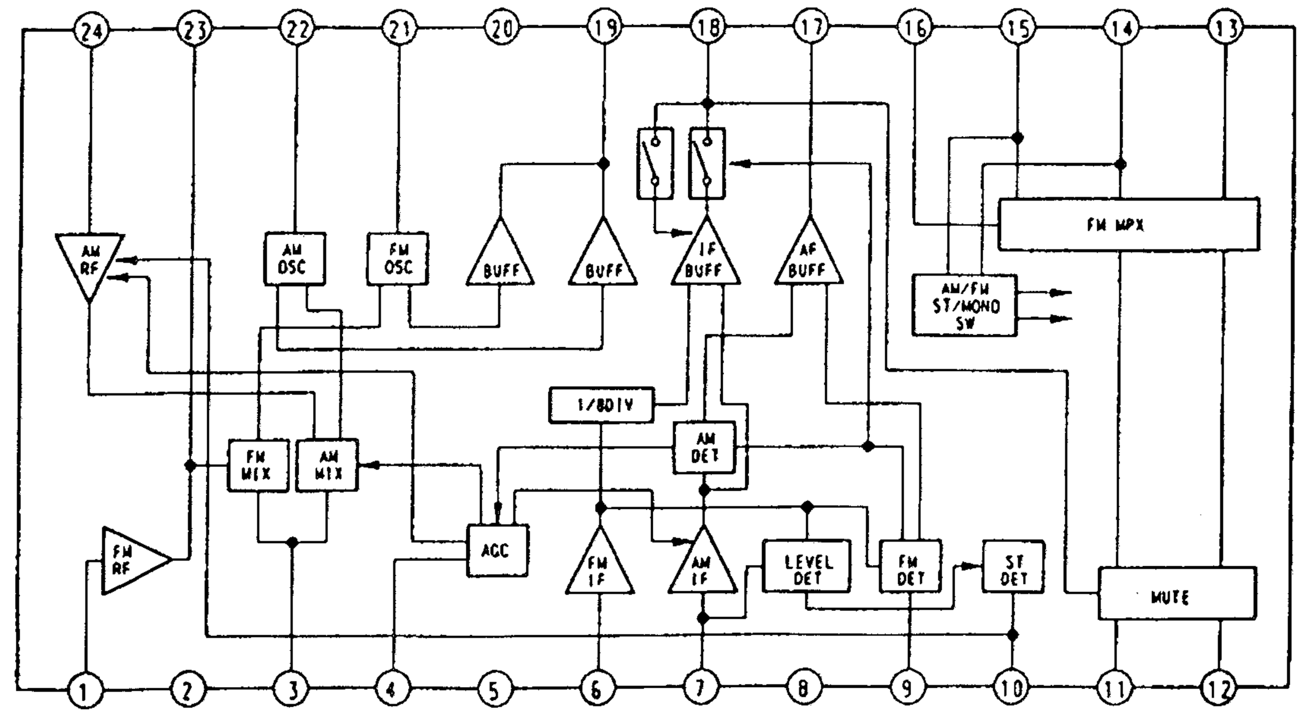
Ref. No.	Location
D5	A-4
D90	E-6
D91	E-6
D92	C-6
D93	C-6
D94	C-5
D95	C-6
IC1	C-4
IC2	E-4
Q1	B-5
Q2	B-5
Q3	B-5
Q4	C-5
Q5	B-5
Q6	C-5
Q7	B-4
Q8	D-4
Q9	B-3
Q10	B-3
Q11	C-2
Q12	C-3
Q13	E-5
Q17	D-2
Q21	B-3
Q22	A-3
Q24	D-3

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- [ ]← : indicates side identified with part number.
- △ : internal component.
- ░░░ : Pattern from the side which enables seeing.

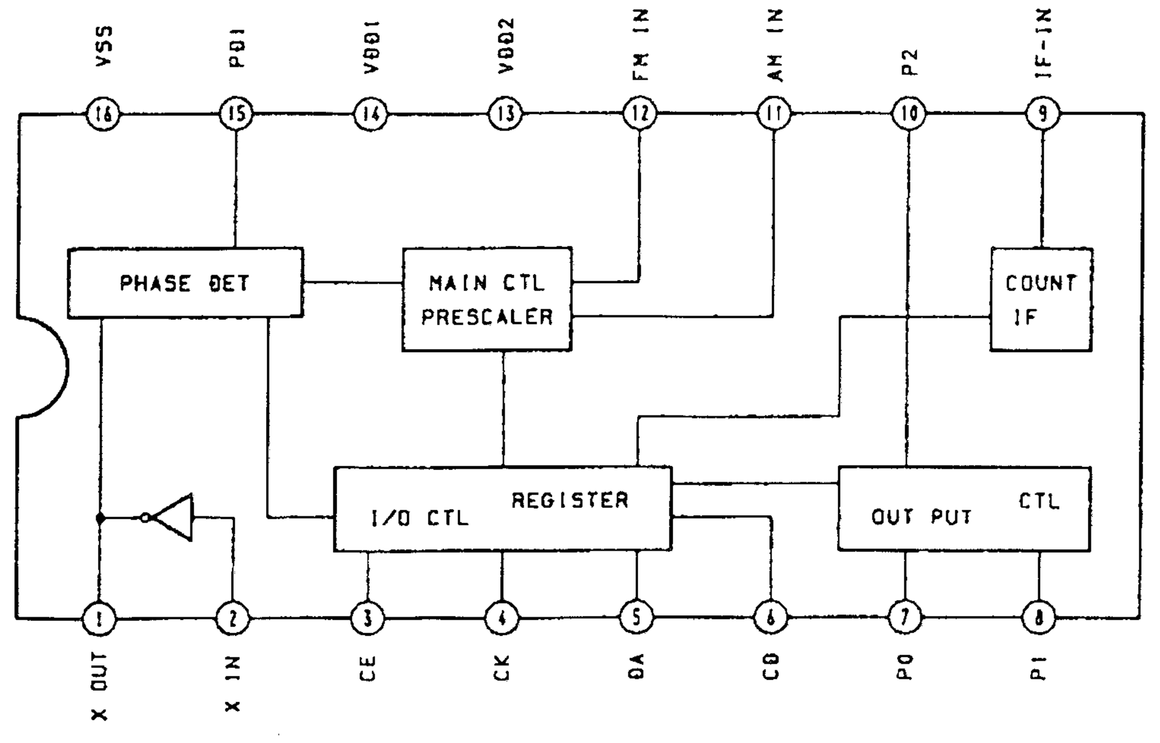
• **IC Block Diagrams**

IC1 TA2008AN



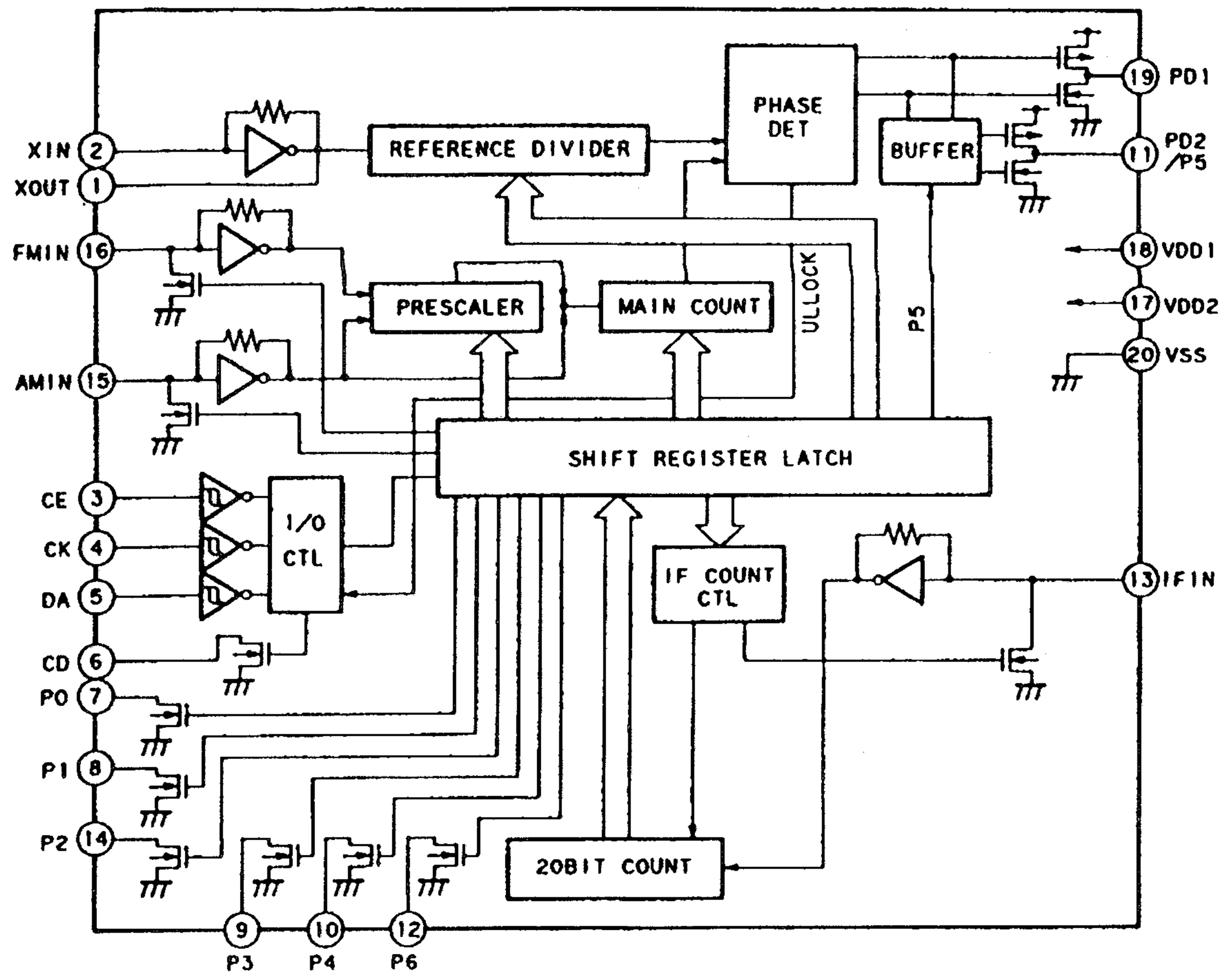
– PMC-D305 –

IC2 BU2614



– PMC-D305L –

IC2 BU2615S

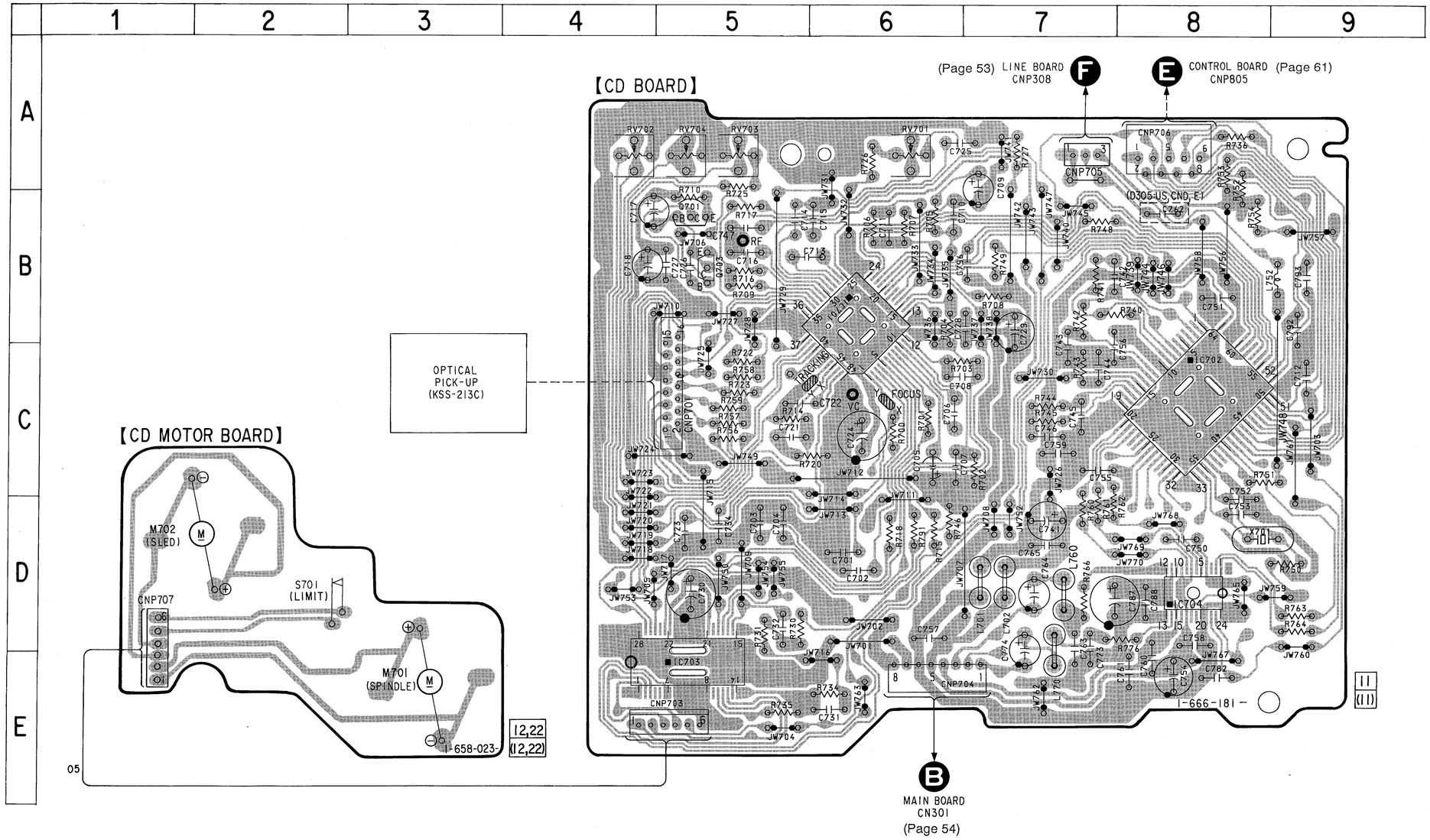


6-5. PRINTED WIRING BOARDS – CD Section –

• See page 34 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
IC701	B-6
IC702	C-8
IC703	E-5
IC704	D-8
Q701	B-5
Q703	B-5

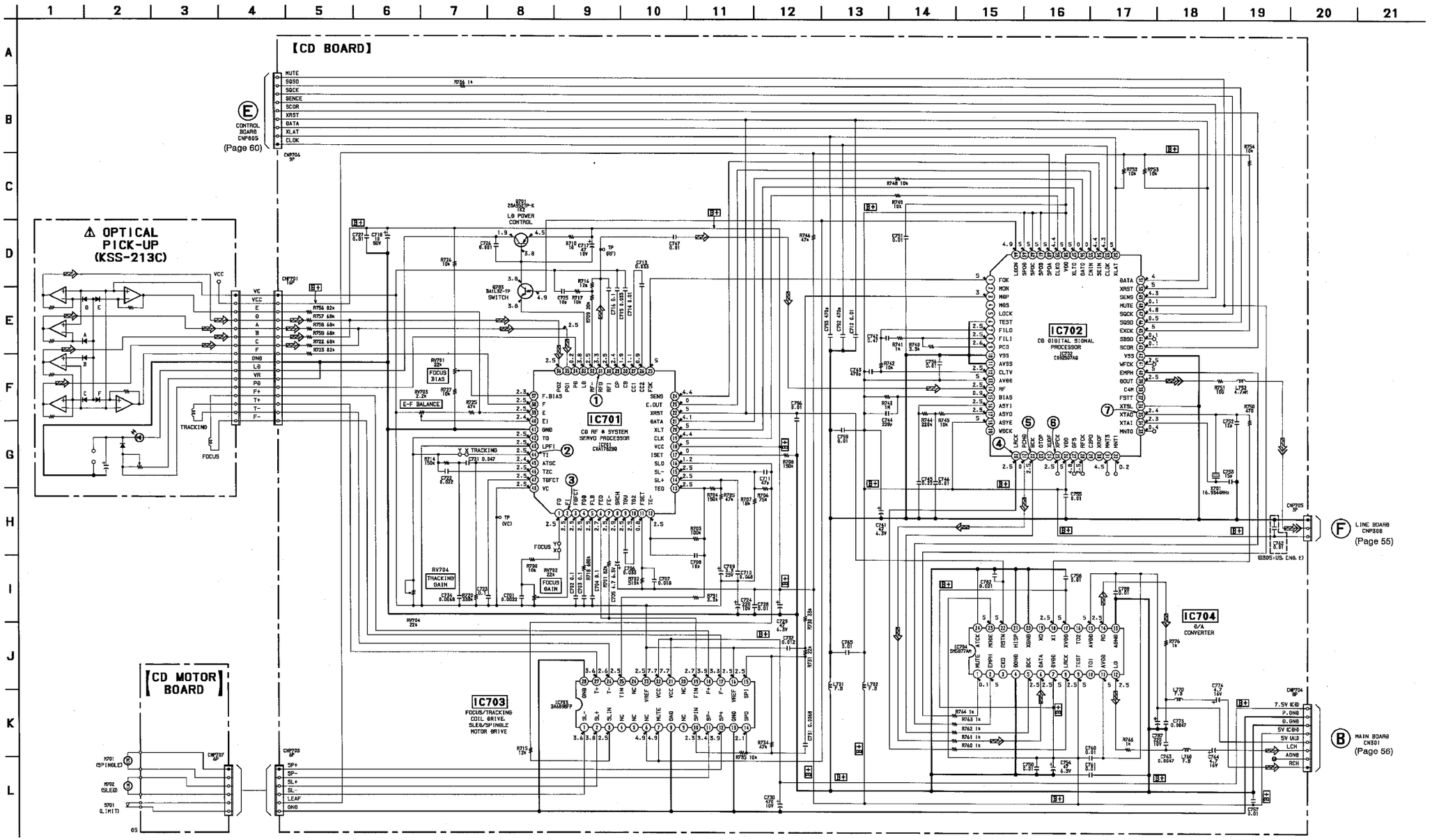


Note on Printed Wiring Board:

- ⟷ : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▨ : Pattern from the side which enables seeing.
- Abbreviation
  CND : Canadian

6-6. SCHEMATIC DIAGRAM – CD Section –

• See page 71 for waveforms. • See page 70 to 72 for IC Block Diagrams.



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.

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

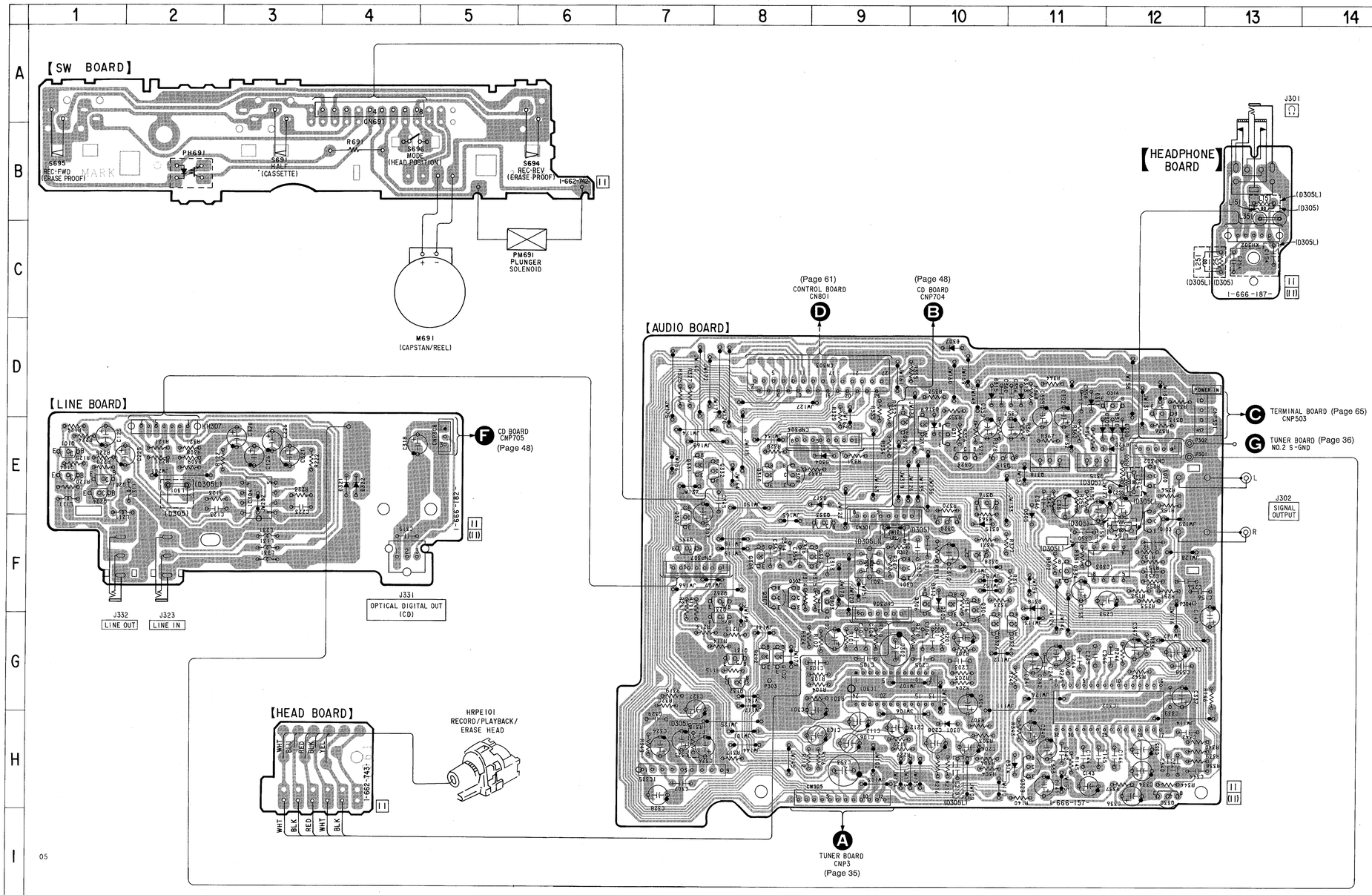
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : CD
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
  ⇨ : digital out
- Abbreviation
  CND : Canadian

6-7. PRINTED WIRING BOARDS – MAIN Section – • See page 34 for Circuit Boards Location.

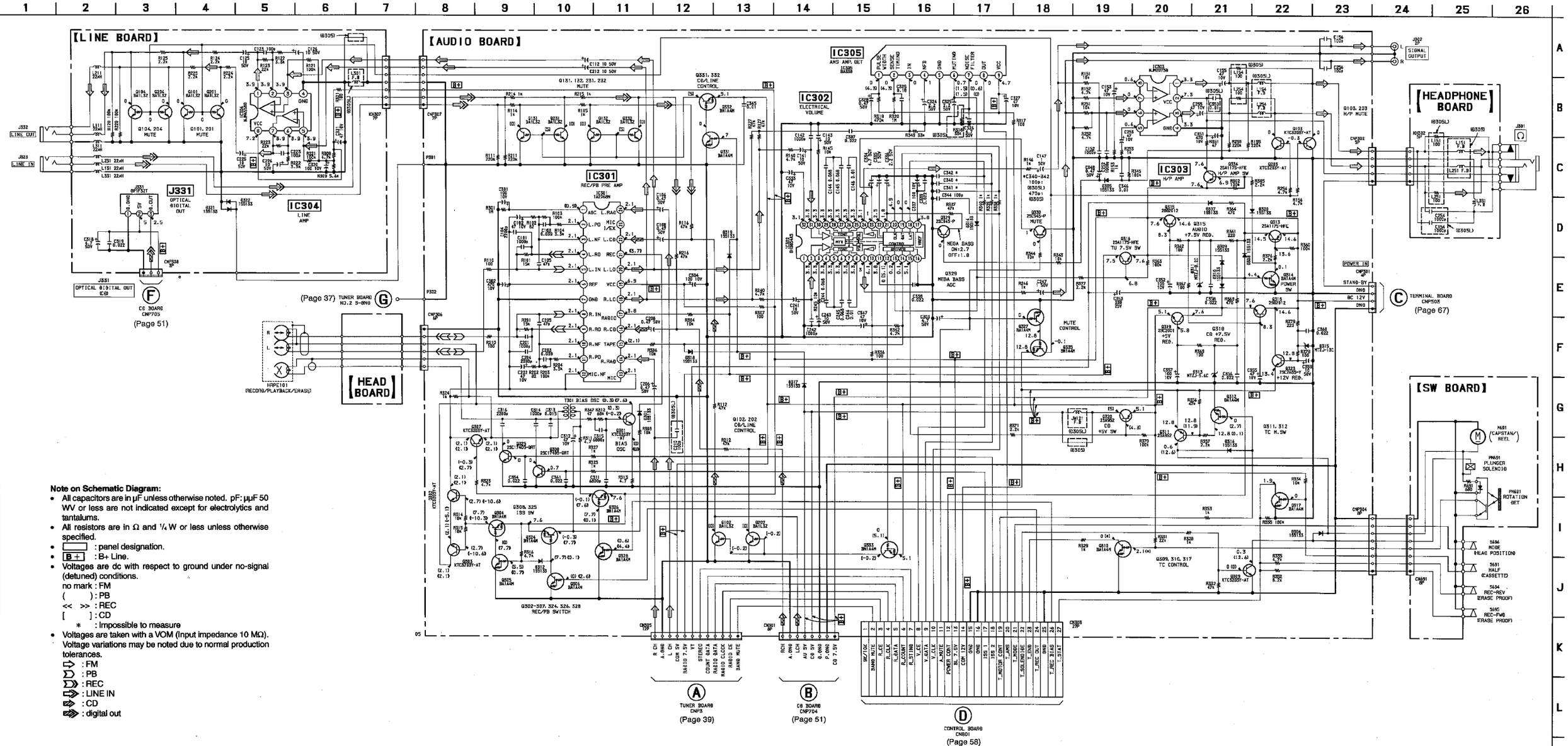
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	H-10	Q203	E-12
D304	E-9	Q204	E-1
D305	F-11	Q231	G-8
D307	D-10	Q232	F-8
D308	E-12	Q301	F-9
D309	D-11	Q302	F-8
D310	E-12	Q303	F-9
D311	D-11	Q304	F-10
D312	F-10	Q305	F-10
D313	D-11	Q306	F-10
D314	H-11	Q307	F-8
D315	D-10	Q308	F-8
D316	E-10	Q309	E-8
D317	E-9	Q310	E-8
D318	F-11	Q311	E-10
D319	F-10	Q312	E-10
D320	E-12	Q313	D-12
D321	E-4	Q314	D-12
D322	E-4	Q315	E-11
		Q316	E-10
IC301	G-9	Q317	E-9
IC302	G-12	Q318	E-11
IC303	F-12	Q319	E-10
IC304	E-3	Q320	F-10
IC305	H-7	Q323	E-10
		Q324	G-11
J331	F-4	Q325	F-9
		Q326	G-10
PH691	B-2	Q327	F-7
		Q328	F-10
Q101	E-1	Q329	H-11
Q102	G-8	Q330	H-12
Q103	F-12	Q331	E-7
Q104	E-1	Q332	E-8
Q131	G-8	Q333	F-9
Q132	G-8	Q334	F-11
Q201	E-1	Q335	F-7
Q202	G-8		

Note on Printed Wiring Board:
- o—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.



6-8. SCHEMATIC DIAGRAM – MAIN Section – • See page 72, 73 for IC Block Diagrams.



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : PB
  << >> : REC
  [ ] : CD
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

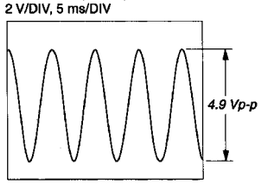
⇨ : FM
⇨ : PB
⇨ : REC
⇨ : LINE IN
⇨ : CD
⇨ : digital out

6-9. SCHEMATIC DIAGRAM – CONTROL Section –

• See page 74, 75 for IC Pin Function Description.

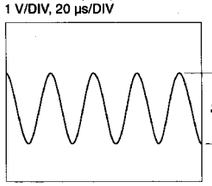
• **Waveforms**

❶ IC801 ㊹ (XTAL1)
2 V/DIV, 5 ms/DIV



4.19 MHz

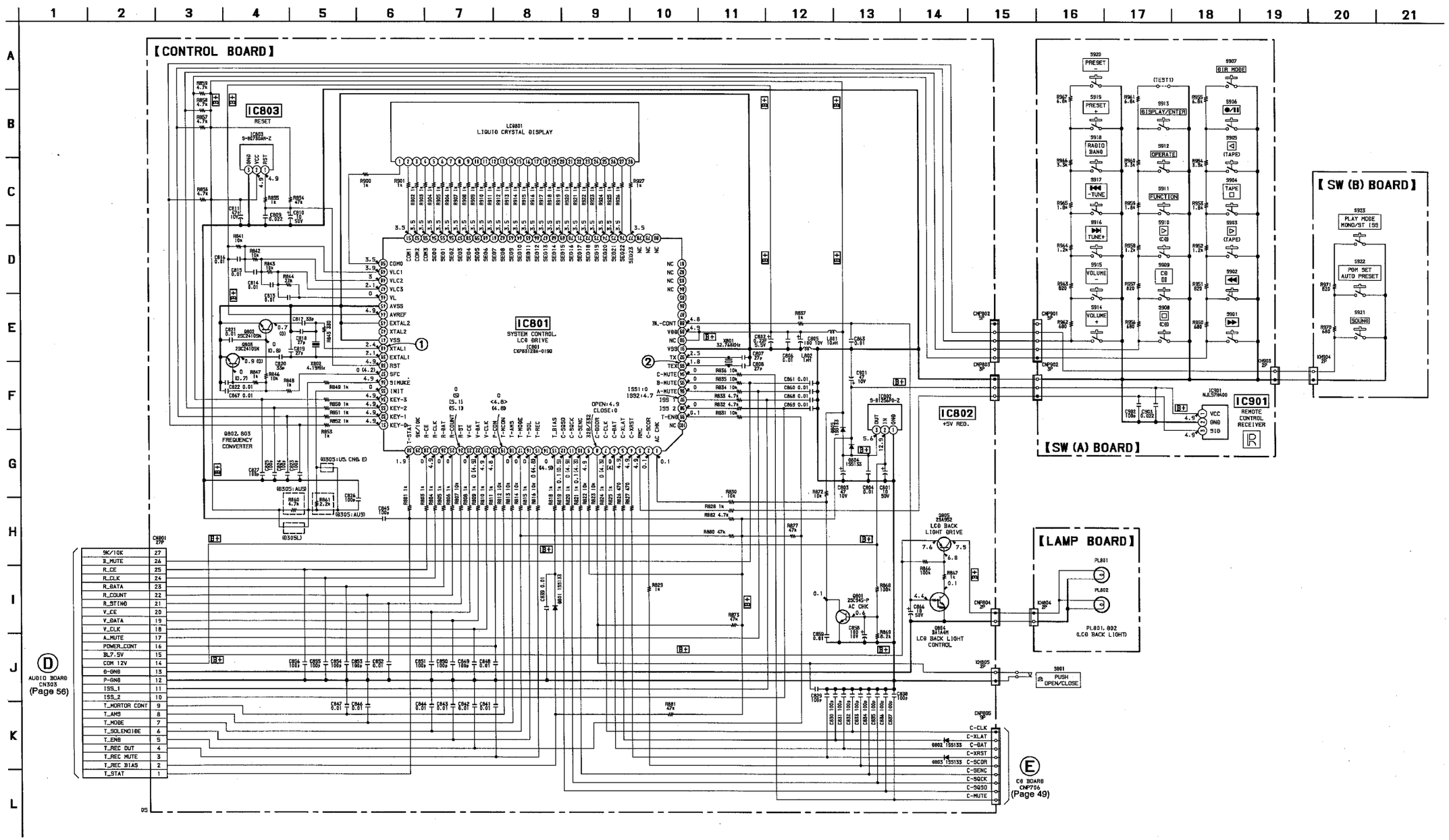
❷ IC801 ㊸ (TEX)
1 V/DIV, 20 µs/DIV



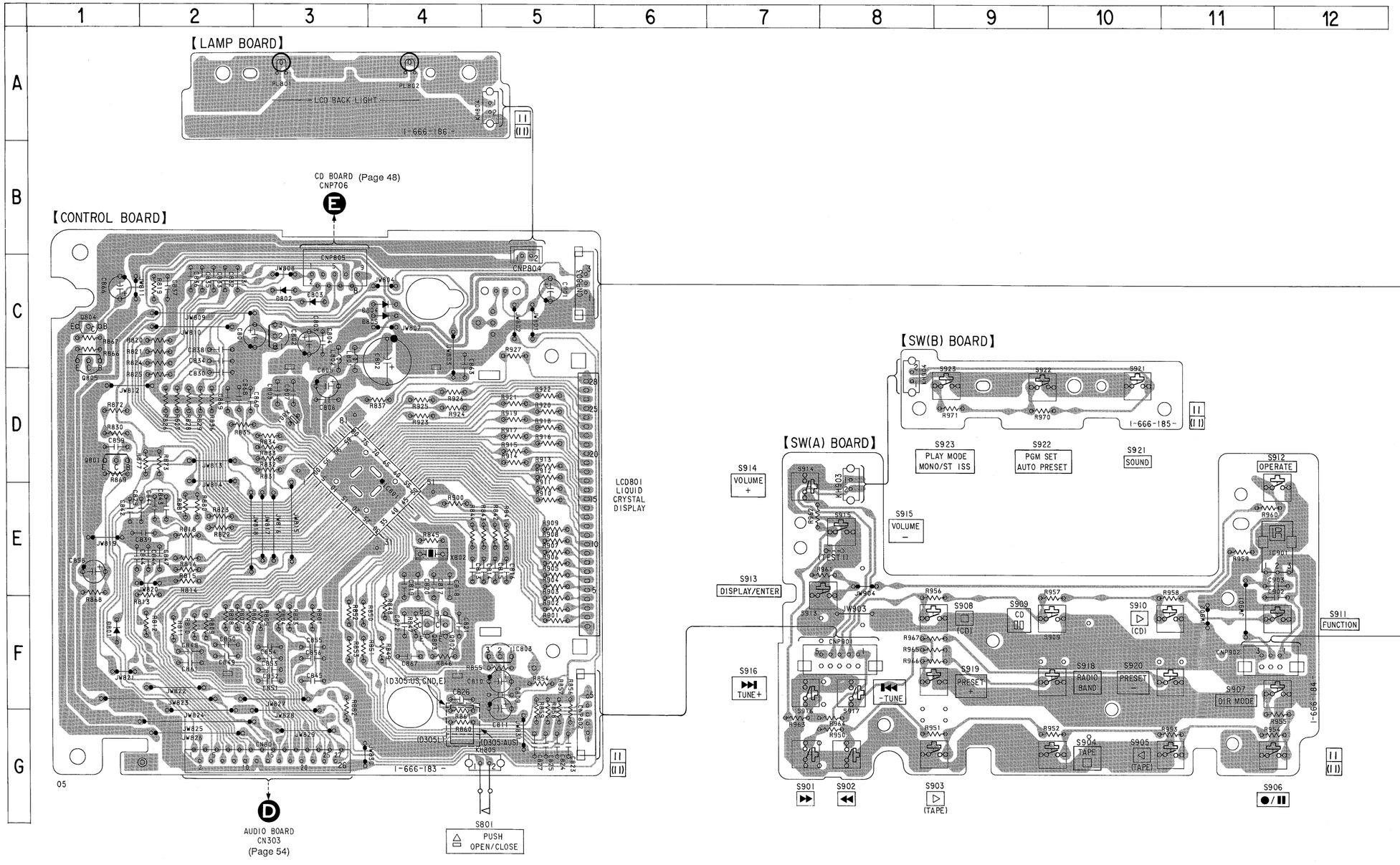
32.768 kHz

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : PB
  << >> : REC
  [ ] : CD
- Voltages are taken with a VOM (Input impedance 10 MΩ). 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.
- Abbreviation
  AUS : Australian



6-10. PRINTED WIRING BOARDS – CONTROL Section – • See page 34 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
D801	F-1
D802	C-3
D803	C-3
D804	C-4
D805	C-4
IC801	E-4
IC802	C-3
IC803	F-5
IC901	E-12
Q801	D-1
Q802	F-4
Q803	F-4
Q804	C-1
Q805	D-1

Note on Printed Wiring Board:

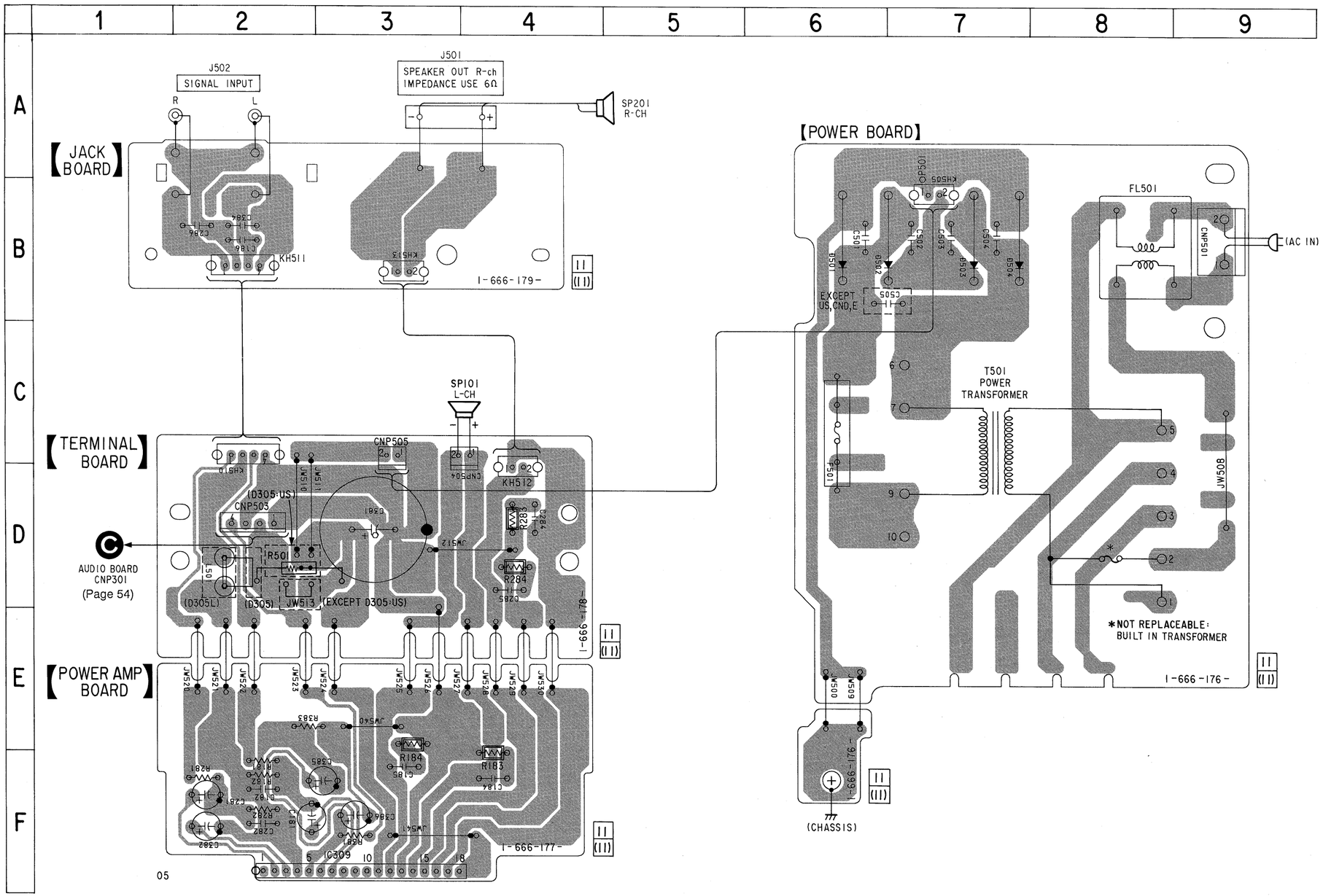
- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▒▒ : Pattern from the side which enables seeing.
- Abbreviation
  AUS : Australian

6-11. PRINTED WIRING BOARDS – POWER Section –

• See page 34 for Circuit Boards Location.

• Semiconductor Location

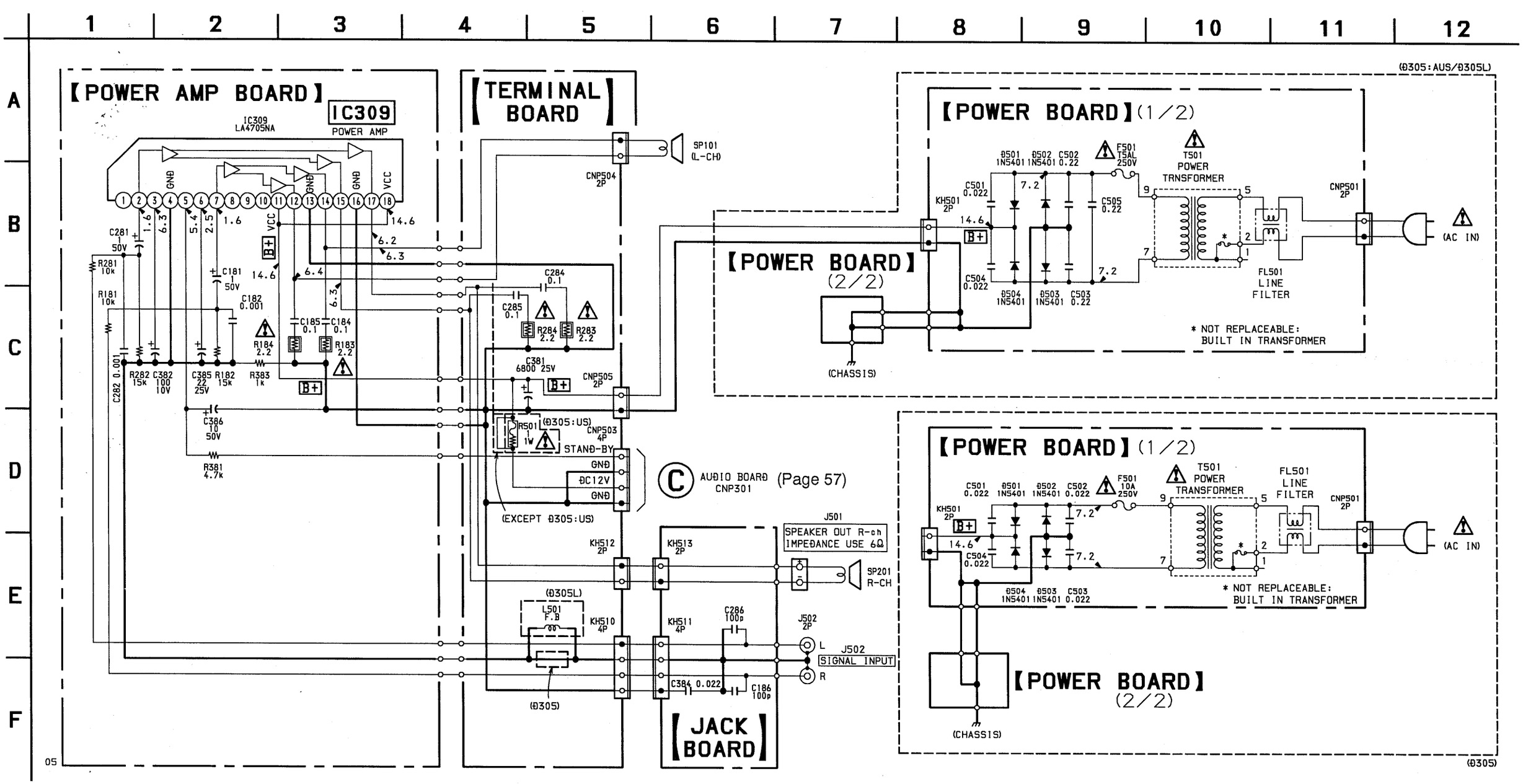
Ref. No.	Location
D501	B-6
D502	B-7
D503	B-7
D504	B-7
IC309	F-3



Note on Printed Wiring Board:

- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.
- Abbreviation
  CND : Canadian
  AUS : Australian

6-12. SCHEMATIC DIAGRAM – POWER Section –



Note on Schematic Diagram:

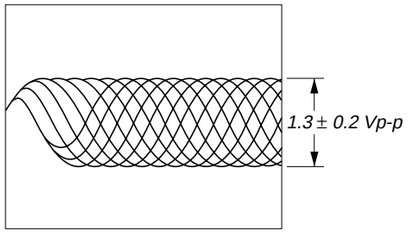
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : nonflammable resistor.
- ▭ : panel designation.

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

- B+ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  CND : Canadian
  AUS : Australian

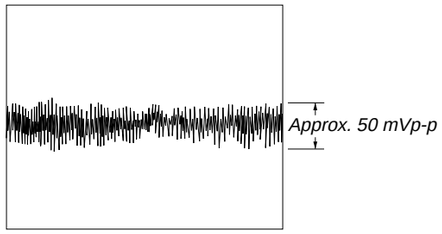
• Waveforms
– CD Section –

❶ IC701 ㉛ (RFO)
200 mV/DIV, 500 ns/DIV

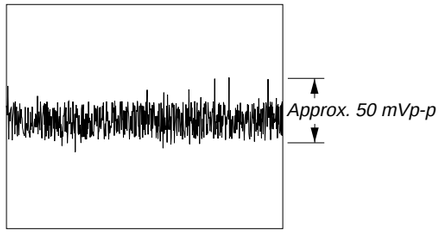


Note: This waveform is measured between RFO and VC.

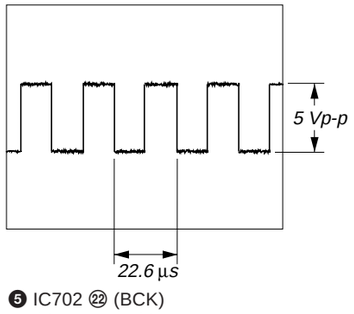
❷ IC701 ㊹ (TI)
100 mV/DIV, 100 ns/DIV



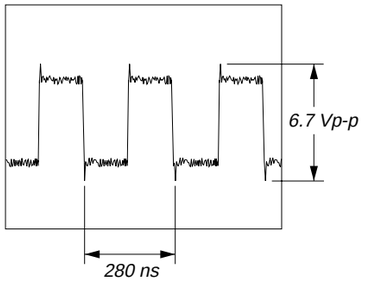
❸ IC701 ② (FI)
100 mV/DIV, 100 ns/DIV



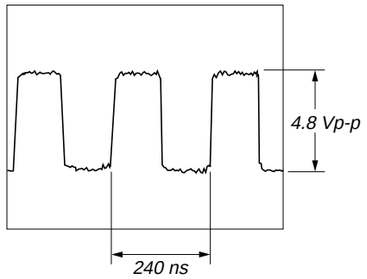
❹ IC702 ⑳ (LRCK)
2 V/DIV, 10 µs/DIV



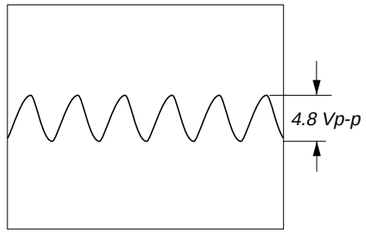
❺ IC702 ㉒ (BCK)
2 V/DIV, 200 ns/DIV



❻ IC702 ㉖ (XPCK)
2 V/DIV, 200 ns/DIV



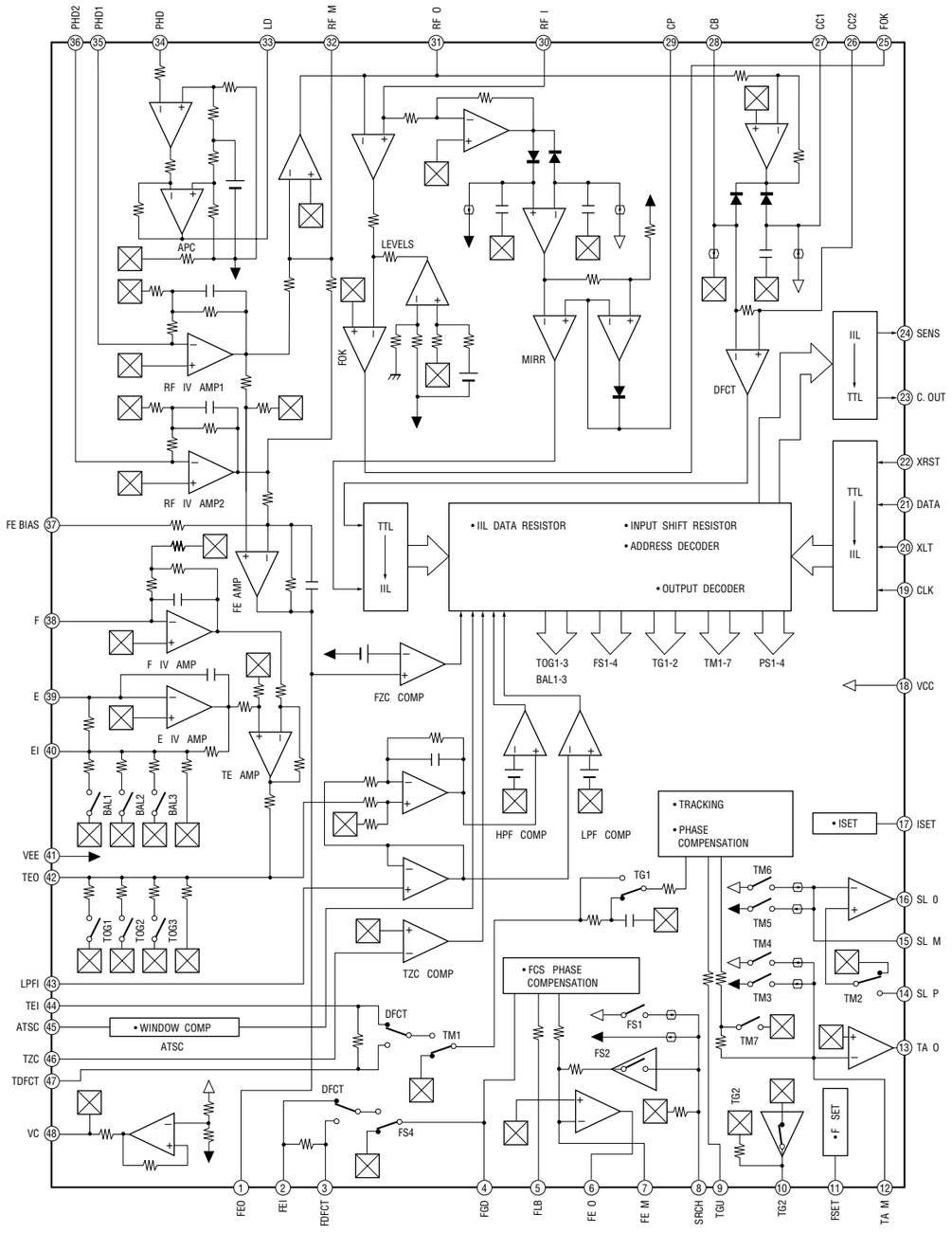
❼ IC702 ㉚ (XTAO)
2 V/DIV, 50 ns/DIV



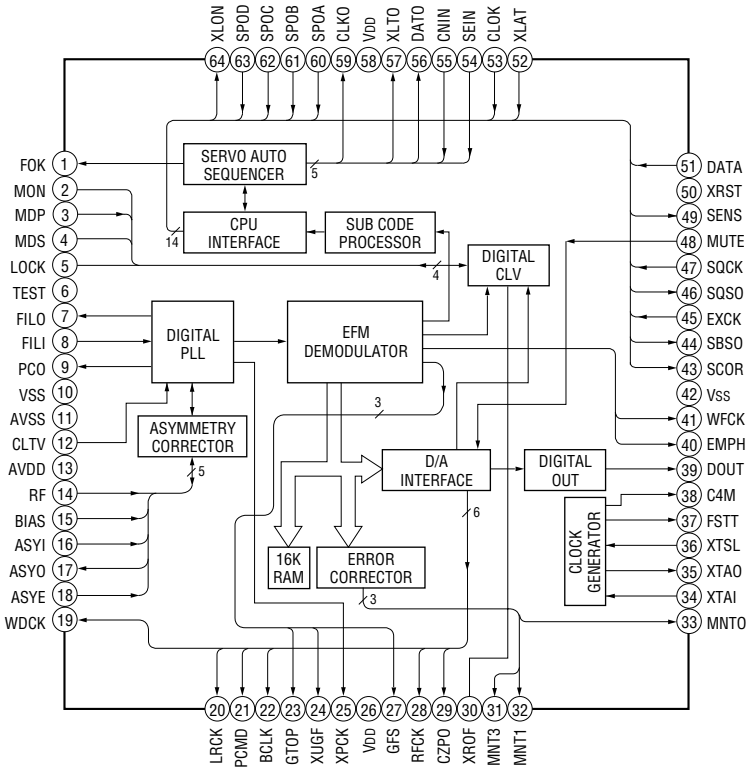
16.9344 MHz

• IC Block Diagrams
– CD Section –

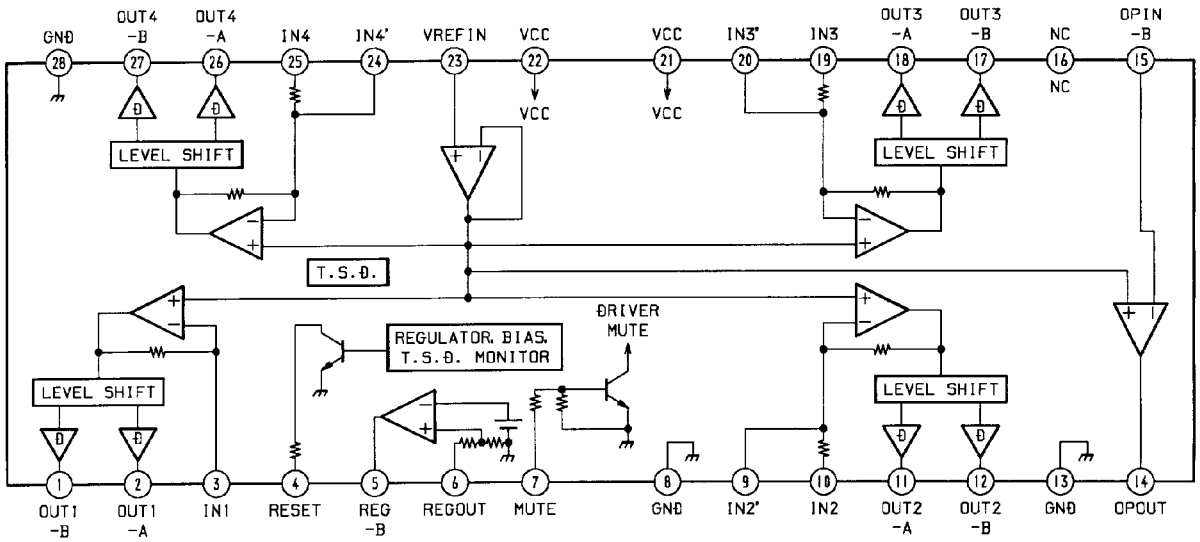
IC701 CXA1782BQ



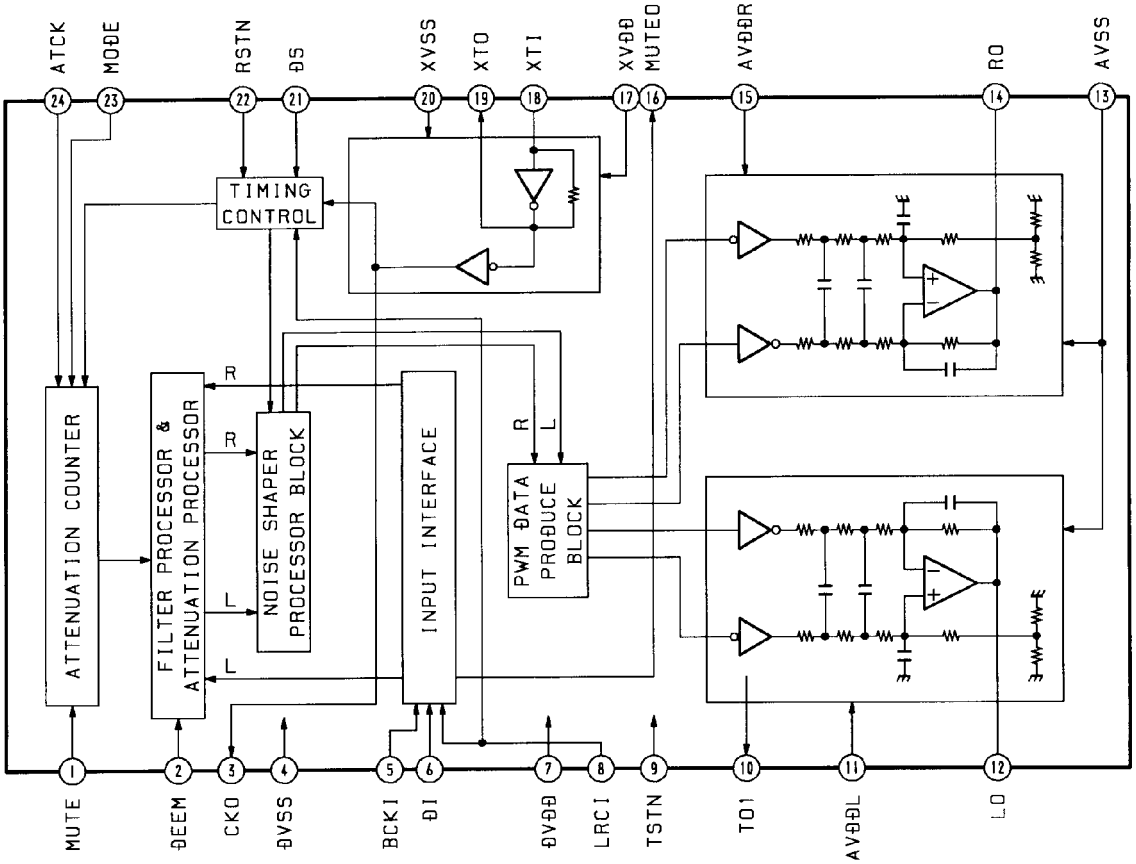
IC702 CXD2507AQ



IC703 BA6898FP

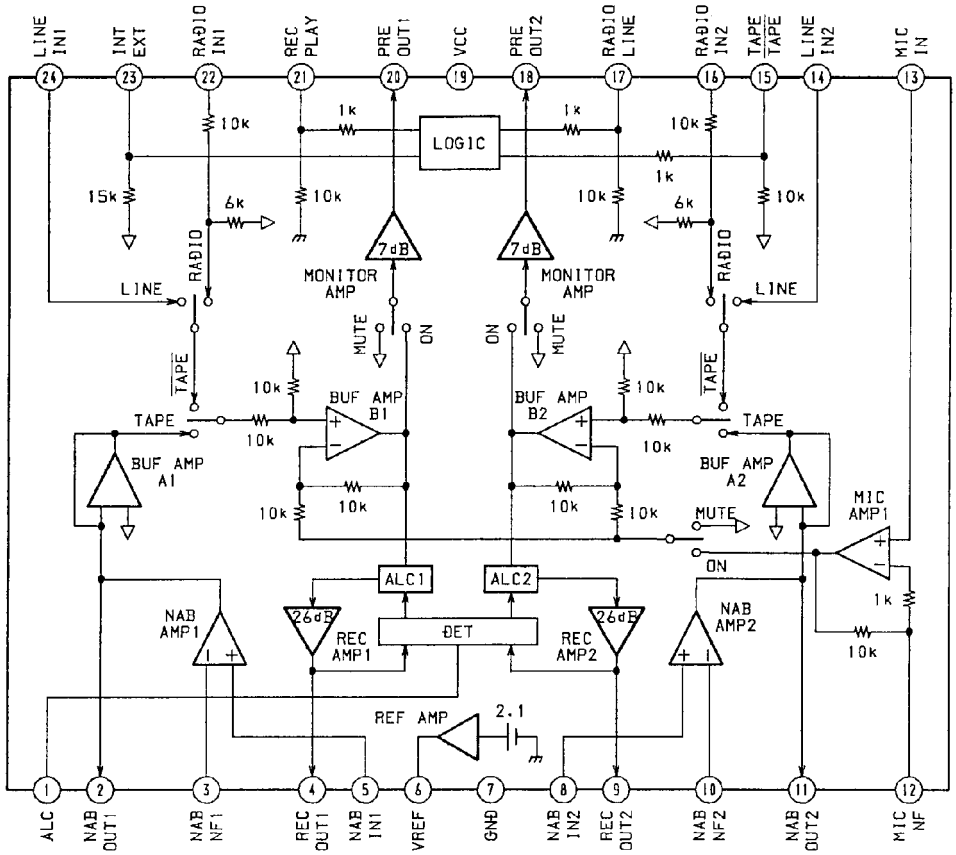


IC704 SM5877AM

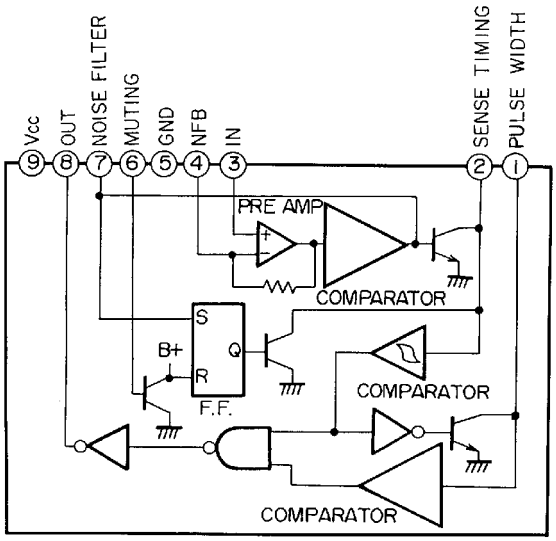


– MAIN Section –

IC301 TA2068N



IC305 BA338


Vcc
OUT
NOISE FILTER
MUTING
GND
NFB
IN
SENSE TIMING
PULSE WIDTH
9
8
7
6
5
4
3
2
1
PRE AMP
COMPARATOR
S
B+
Q
R
F.F.
COMPARATOR
COMPARATOR

6-13. IC PIN FUNCTION DESCRIPTION

CONTROL BOARD IC801 CXP83120A-019Q (SYSTEM CONTROL, LCD DRIVE)

Pin No.	Pin Name	I/O	Function
1	AC CHK	I	AC check input
2	C-SCOR	I	CD-SCOR input
3	RMC	I	Remote commander input
4	C-XRST	O	CD system reset output
5	C-XLAT	O	CD DSP (IC702) command
6	C-DAT	O	CD DSP (IC702) command data output
7	C-CLK	O	Clock output for CD DSP (IC702) command
8	C-DOOR	I	Open/close detection input "L": close "H": open
9	328/332	I	328/332 select input (Fixed at "H")
10	C-SENC	I	CD-SENS input
11	C-SQCK	O	Clock output for CD SUBQ
12	C-SQSO	I	CD SUBQ input
13	T-BIAS	I	Tape REC BIAS input
14	–	–	Not used (Open)
15	T-REC	I	Tape REC input
16	T-SOL	O	Plunger control output
17	T-MODE	O	HEAD switching output
18	T-AMS	I	AMS sensitivitiy switching
19	T-MCON	O	Motor control output "H": Motor on
20	P-CON	O	Power on/off control output
21	V-CLK	O	Volume clock output
22	V-DAT	O	Volume data output
23	V-CE	O	Electrical volume (IC302) chip enable output
24	R-ST	I	Stereo detection input
25	R-COUNT	I	Tuner PLL IC count input
26	R-DAT	O	Tuner PLL IC data output
27	R-CLK	O	Tuner PLL IC clock output
28	R-CE	O	Tuner PLL IC chip enable output
29	9K/10K	I	9K/10K select input (Not used)
30	T-STAT	I	Tape detection input
31-34	KEY-0-3	I	Key return signal input
35	INIT	O	Initial setting output
36	SIMUKE	I	Destination setting terminal
37	SFC	O	Shift clock on/off out
38	RST	I	Reset input
39	EXTAL1	I	Clock oscillation input (4.19MHz)
40	XTAL1	O	Clock oscillation output (4.19MHz)
41	VSS	–	Ground (for A/D converter)
42	XTAL2	O	Clock oscillation output (Open)
43	EXTAL2	I	Clock oscillation output (Fixed at "L")
44	AVREF	I	Reference voltage input (for A/D converter)
45	AVSS	–	Ground (for A/D converter)

Pin No.	Pin Name	I/O	Function
46	VL	O	LCD bias resistor current control terminal (Cut off at standby)
47-49	VLC3-1	–	LCD bias power supply terminal
50-53	COM0-3	O	LCD common signal output terminal
54-77	SEG0-23	O	LCD segment signal output terminal
78-84	NC	–	Not used (Open)
85-87	–	–	Not used (Open)
88	BL-CONT	O	LCD Back light control output
89	VDD	–	Power supply (+5V)
90	NC	–	Connected to the power supply
91	VSS	–	Ground
92	TX	O	Crystal connection for clock oscillation (32.768kHz)
93	TEX	I	Crystal connection for clock oscillation (32.768kHz)
94	C-MUTE	O	Mute output for CD
95	B-MUTE	O	Mute output for Tuner
96	A-MUTE	O	Mute output for Audio
97	ISS1	I	ISS1 switch input
98	ISS2	I	ISS2 switch input
99	T-END	I	Tape end detection input
100	NC	–	Not used (Open)

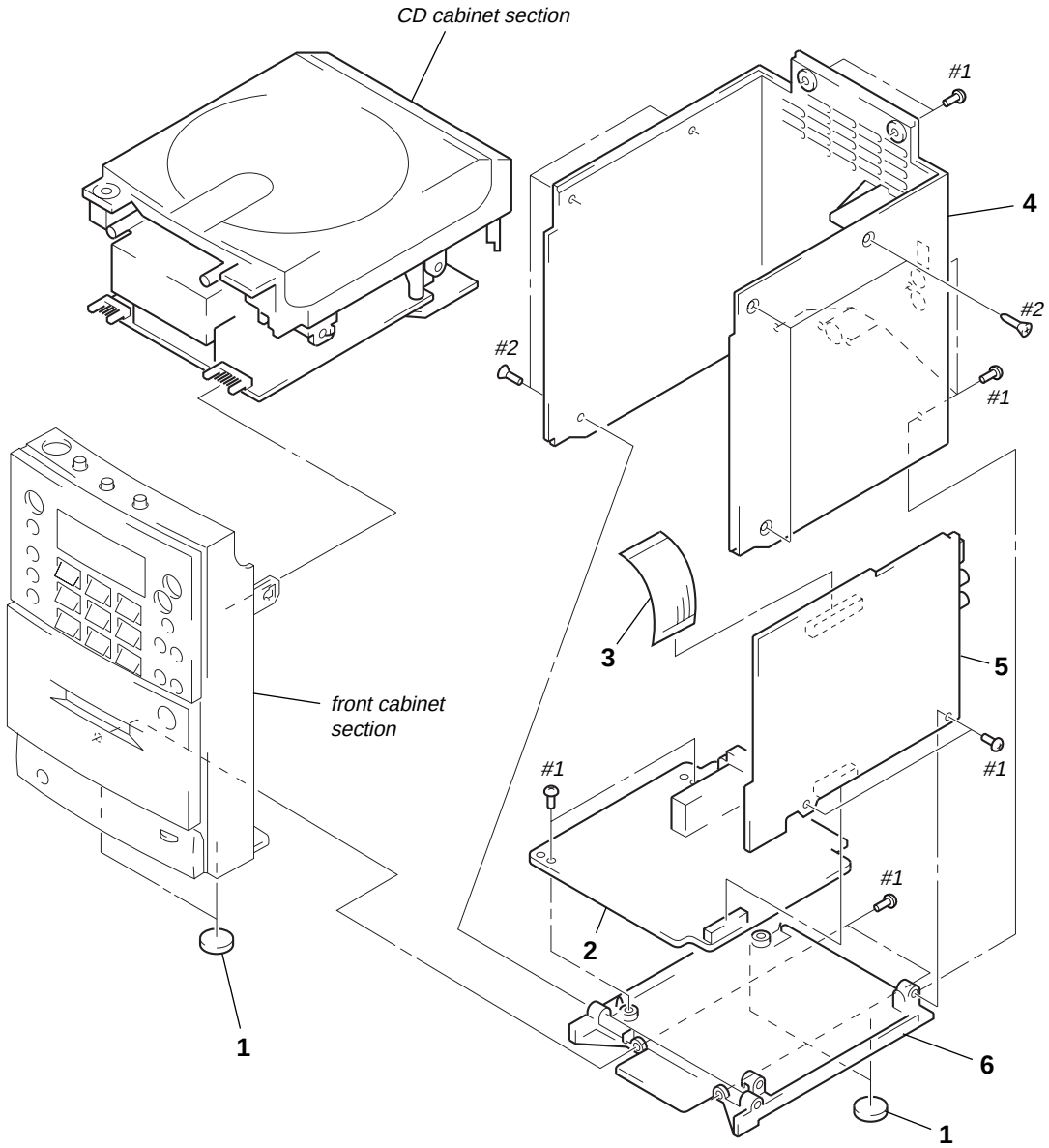
SECTION 7
EXPLODED VIEWS

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 CET : East European, Russian
  IT : Italian AUS : Australian
- 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 ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

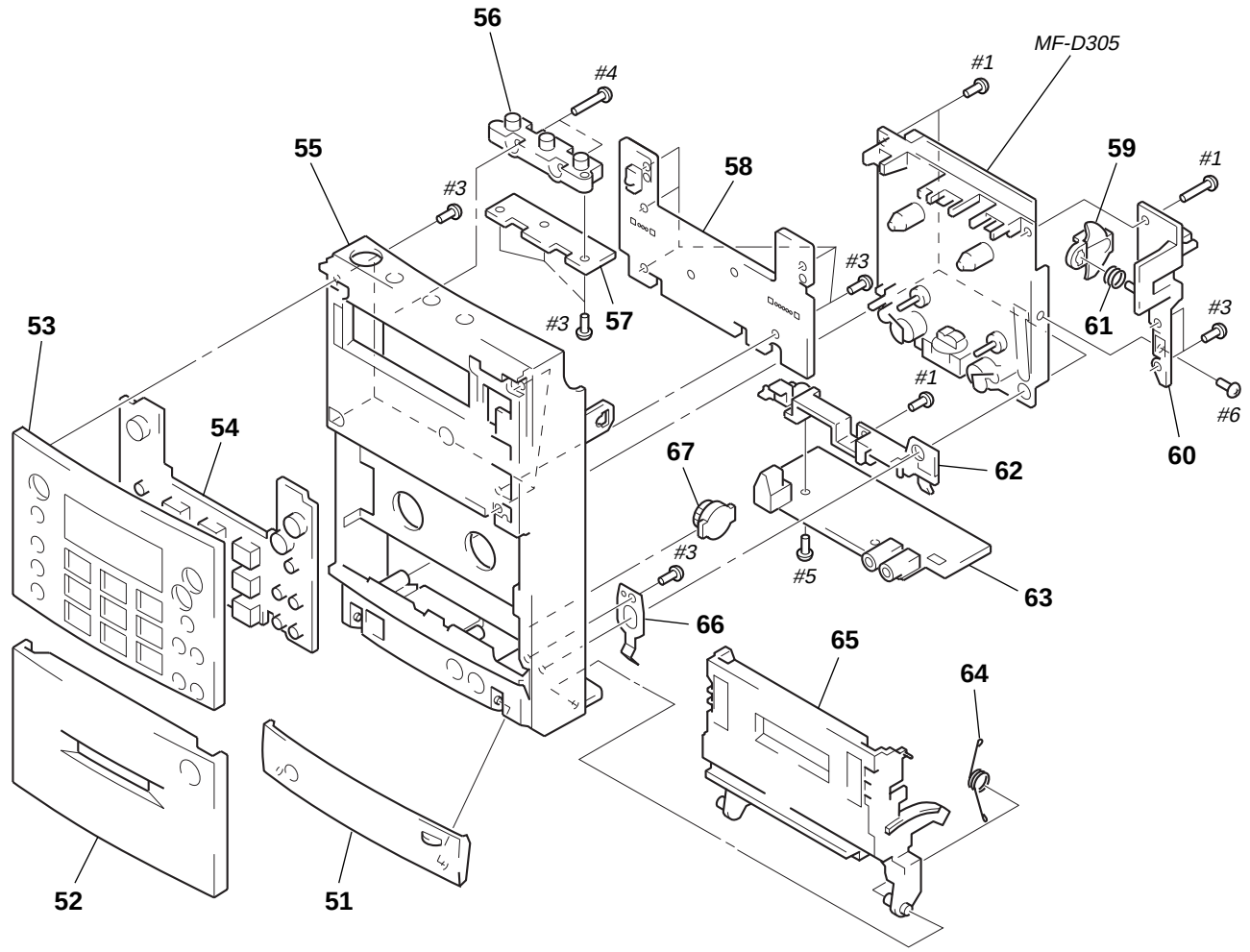
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

(1) CASE SECTION



Ref. No.	Part No.	Description	Remark
1	3-014-503-01	FOOT	
* 2	A-3306-626-A	TUNER BOARD, COMPLETE (D305L)	
* 2	A-3306-831-A	TUNER BOARD, COMPLETE (D305: AUS)	
* 2	A-3306-834-A	TUNER BOARD, COMPLETE (D305: US, CND, E)	
3	1-782-296-11	WIRE, PARALLEL (FFC) (27 CORE)	
4	3-014-125-01	CABINET (REAR)	
* 5	A-3306-627-A	AUDIO BOARD, COMPLETE (D305L)	
* 5	A-3306-835-A	AUDIO BOARD, COMPLETE (D305)	
6	3-014-127-01	CASE (LOWER)	

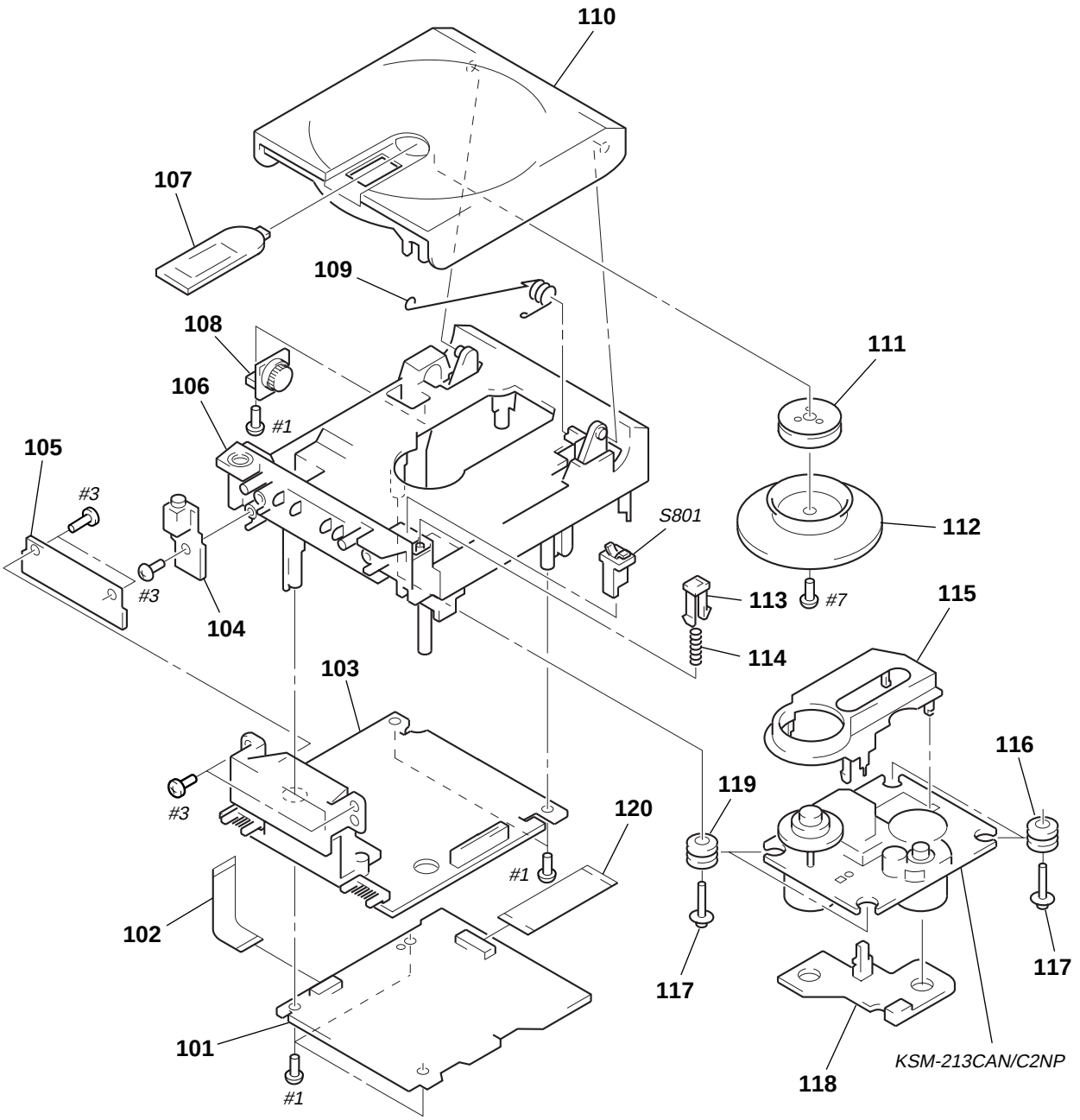
(2) FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
51	X-3373-799-1	LID (TERMINAL) ASSY	
52	X-3373-798-1	LID (CASSETTE) ASSY (D305L)	
52	X-3374-255-1	LID (CASSETTE) ASSY (D305)	
53	X-3373-797-1	PANEL (FRONT) ASSY (D305L)	
53	X-3374-254-1	PANEL (FRONT) ASSY (D305)	
54	3-014-091-01	BUTTON (MAIN)	
55	3-014-090-01	CABINET (FRONT)	
56	3-014-092-01	BUTTON (UPPER)	
* 57	1-666-185-11	SW (B) BOARD	
* 58	1-666-184-11	SW (A) BOARD	

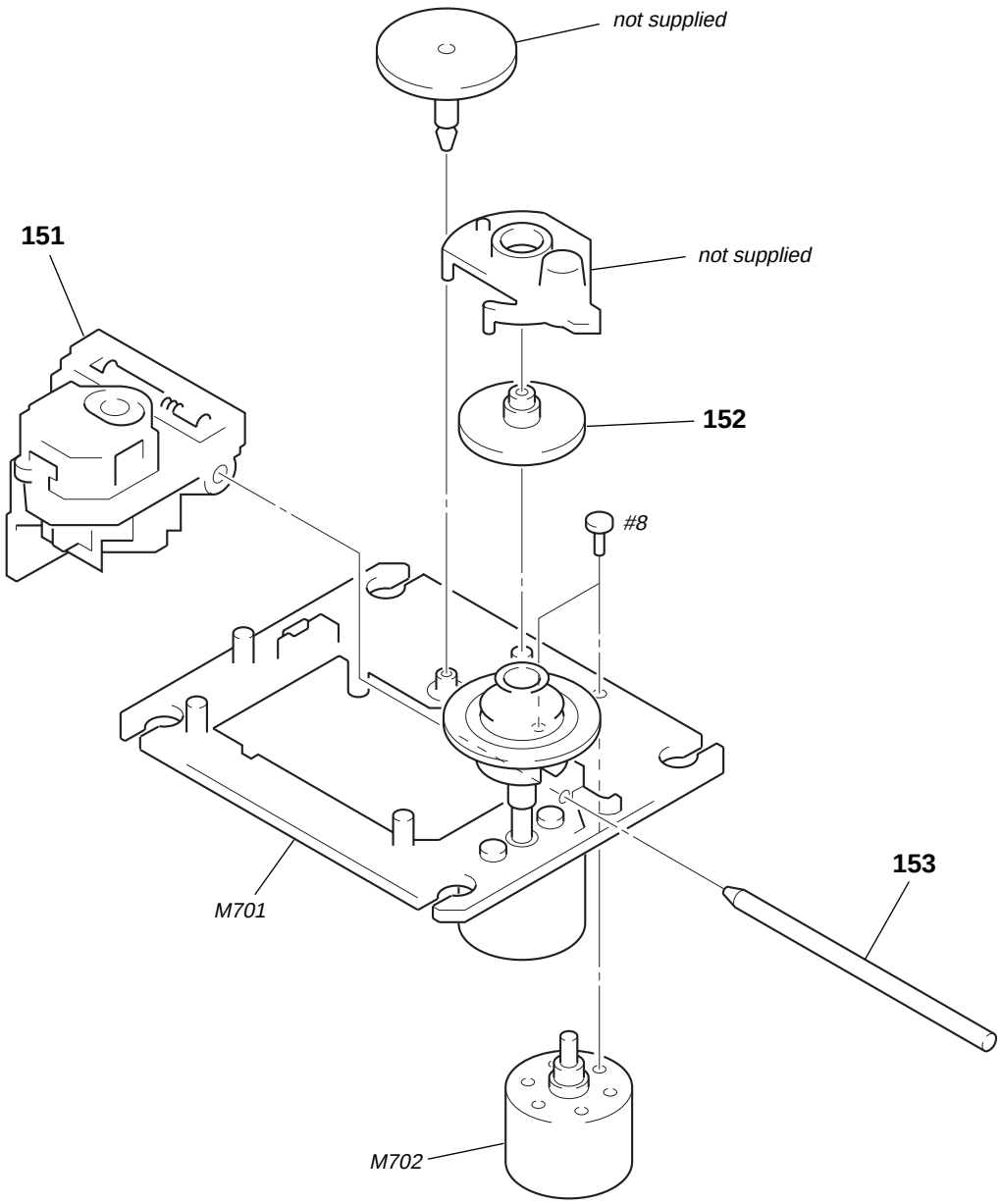
Ref. No.	Part No.	Description	Remark
59	3-014-097-01	PLATE (CASSETTE), LOCK	
60	3-014-098-01	RETAINER (CASSETTE), LOCK	
61	3-013-735-01	SPRING (CASSETTE LOCK)	
62	3-014-100-01	HOLDER (TERMINAL)	
* 63	A-3306-625-A	LINE BOARD, COMPLETE (D305L)	
* 63	A-3306-833-A	LINE BOARD, COMPLETE (D305)	
64	3-014-102-01	SPRING (CASSETTE)	
65	3-014-096-01	HOLDER (CASSETTE)	
66	3-014-103-01	SPRING (TERMINAL LID)	
67	3-343-248-01	DAMPER (P), SMALL	

(3) CD CABINET SECTION



Ref. No.	Part No.	Description	Remark
* 101	A-3306-628-A	CD BOARD, COMPLETE (D305: AUS/D305L)	
* 101	A-3306-837-A	CD BOARD, COMPLETE (D305: US, CND, E)	
102	1-782-294-11	WIRE, PARALLEL (FFC) (9 CORE)	
* 103	A-3306-631-A	CONTROL BOARD, COMPLETE (D305L)	
* 103	A-3306-832-A	CONTROL BOARD, COMPLETE (D305: AUS)	
* 103	A-3306-836-A	CONTROL BOARD, COMPLETE (D305: US, CND, E)	
* 104	1-666-187-11	HEADPHONE BOARD	
* 105	1-666-186-11	LANP BOARD	
106	3-014-123-01	CABINET (CD)	
107	3-014-129-01	WINDOW (CD)	
108	3-351-377-11	DAMPER	
109	3-014-128-01	SPRING (CD)	
110	3-014-124-01	LID (CD)	
111	1-452-732-11	MAGNET	
112	3-910-112-01	PLATE, CHUCKING	
113	3-014-131-01	LEVER	
* 114	3-014-132-01	SPRING, COMPRESSION	
115	3-910-116-01	COVER, CD	
116	3-910-095-11	RUBBER, VIBRATION PROOF (RED)	
117	3-916-006-01	SCREW (2.6X16)	
118	1-639-678-12	CD MOTOR BOARD	
119	3-910-095-01	RUBBER, VIBRATION PROOF (GREEN)	
120	1-769-069-11	CABLE, FFC 16P	
S801	1-692-960-11	SWITCH, PUSH (1 KEY) (OPEN/CLOSE)	

(4) OPTICAL PICK-UP SECTION (KSM-213CAN/C2NP)

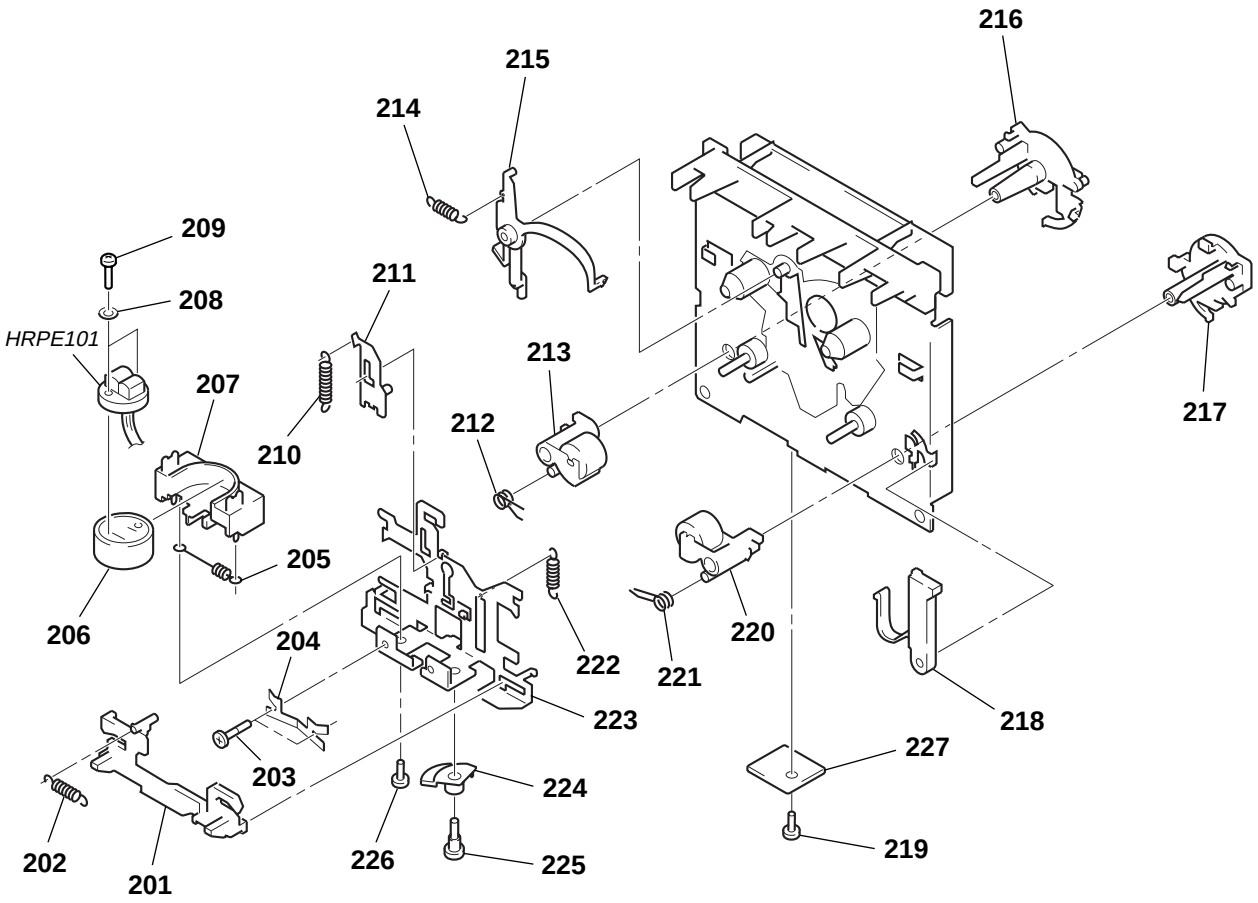


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
⚠151	8-848-376-11	OPTICAL PICK-UP KSS-213B/S-RP	
152	2-627-003-02	GEAR (B) (RP)	
153	2-626-908-01	SHAFT, SLED	

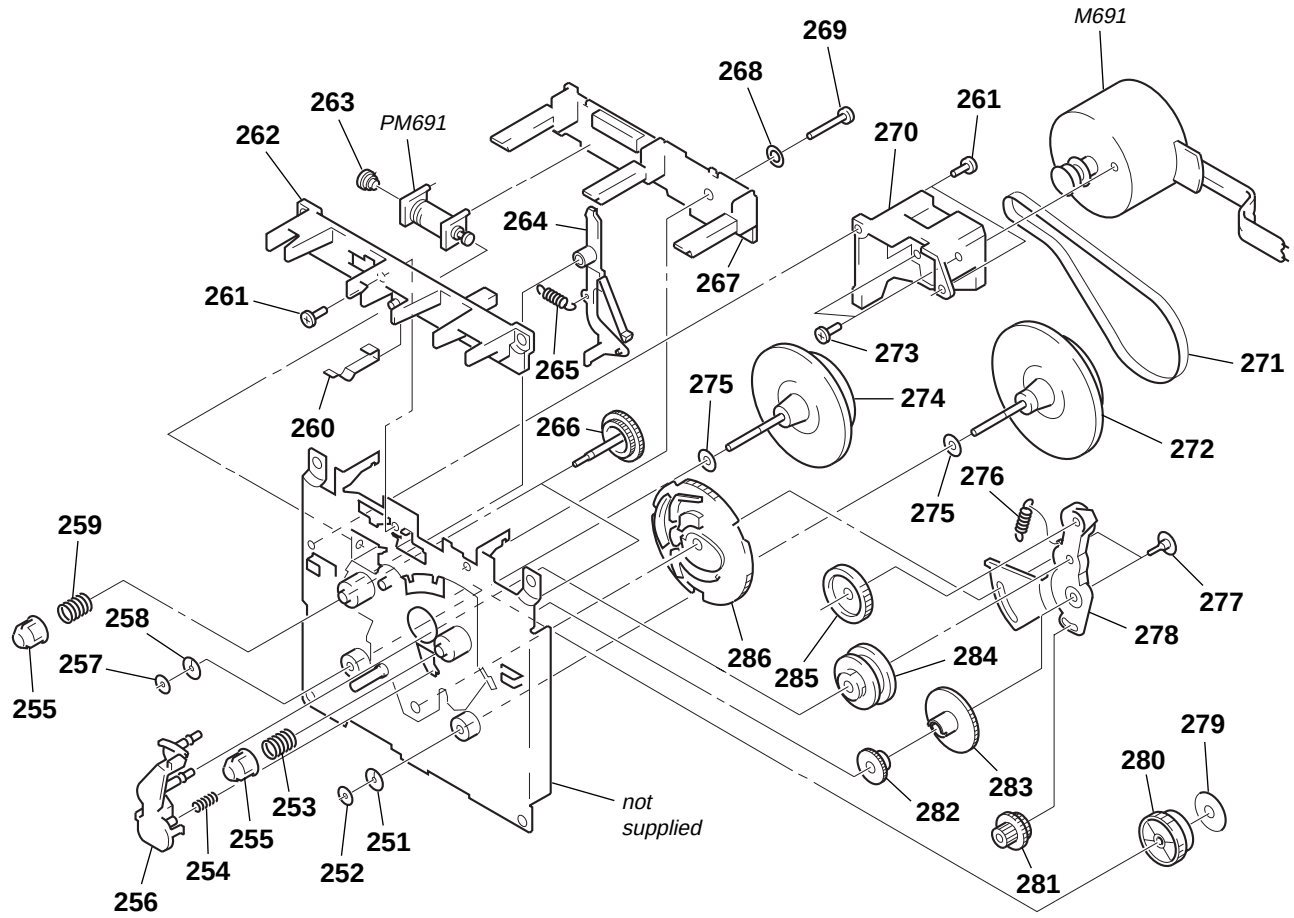
Ref. No.	Part No.	Description	Remark
M701	X-2625-770-1	CHASSIS ASSY (MB) (RP), MOTOR (SPINDLE)	
M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	

(5) TAPE MECHANISM DECK SECTION-1 (MF-D305)



Ref. No.	Part No.	Description	Remark
201	3-938-905-01	HEAD, LEVER	
202	3-938-940-01	SPRING (L)	
203	3-938-941-01	SCREW (A)	
204	3-938-906-01	AZIMUTH, SPRING	
205	3-017-432-01	SPRING (A)	
206	3-938-901-01	HEAD, HOLDER	
* 207	3-938-904-01	HEAD, FRAME	
208	3-938-902-01	WASHER	
209	3-938-903-01	SCREW	
210	3-938-935-01	SPRING (G)	
* 211	X-3372-610-1	ASSIST ASSY, LEVER	
212	3-938-933-01	SPRING (E)	
213	3-017-592-01	ARM (PINCH L) ASSY	
214	3-938-934-01	SPRING (F)	
* 215	3-938-916-01	BRAKE, ARM	
* 216	3-938-914-01	FRAME (C)	
* 217	3-938-913-01	FRAME (B)	
* 218	3-938-909-01	LOCK, EJECT	
219	3-938-944-01	SCREW (D)	
220	3-017-591-01	ARM (PINCH R) ASSY	
221	3-938-937-01	SPRING (I)	
222	3-938-938-01	SPRING (J)	
* 223	3-938-911-01	HEAD (B), CHASSIS	
224	3-938-907-01	HEAD, GEAR ARM	
225	3-938-943-01	SCREW (C)	
226	3-938-942-01	SCREW (B)	
* 227	1-662-743-11	HEAD BOARD	
	HRPE1011-500-480-11	HEAD, MAGNETIC (REC/PB/ERASE)	

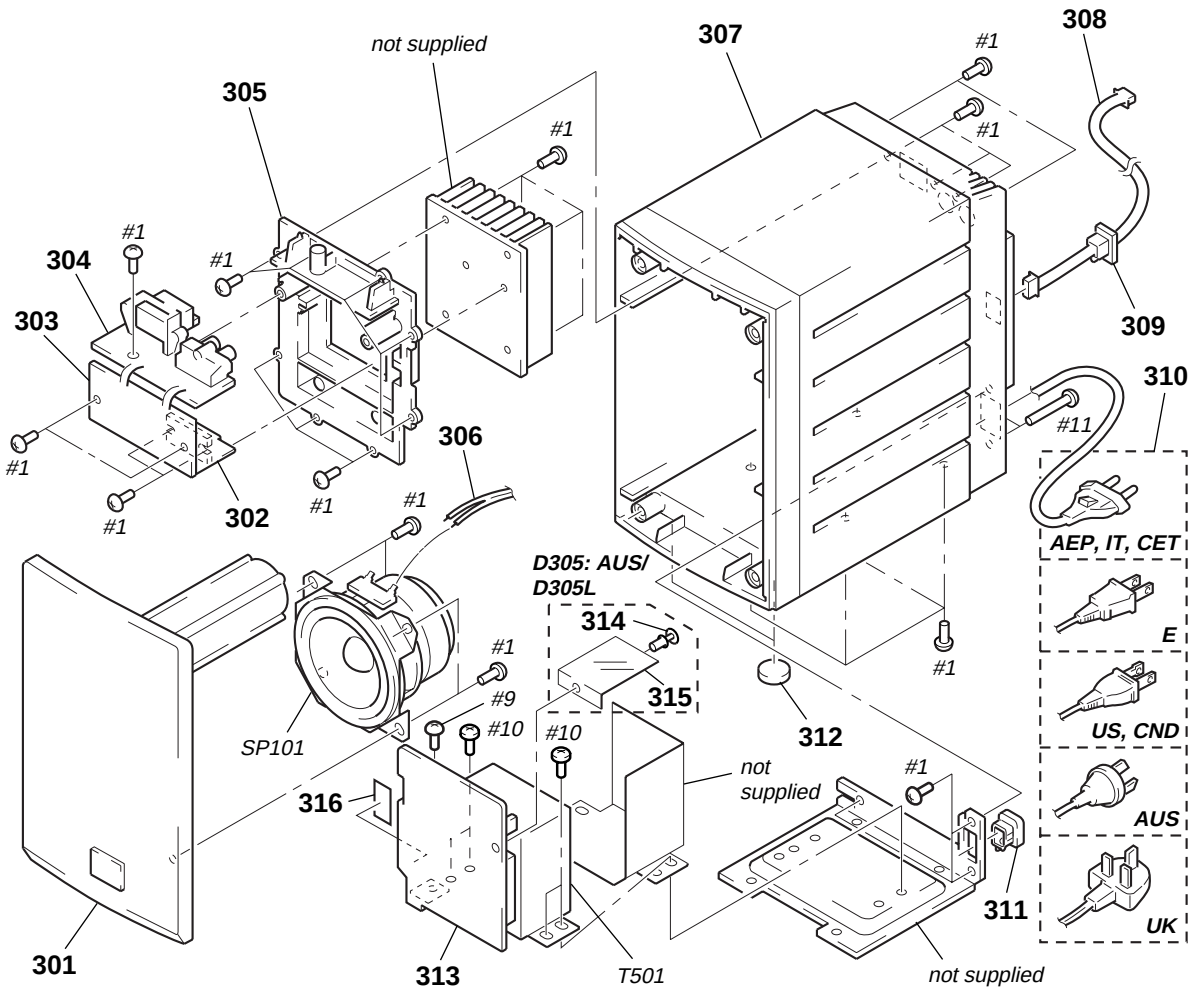
(6) TAPE MECHANISM DECK SECTION-2 (MF-D305)



Ref. No.	Part No.	Description	Remark
251	3-938-949-01	WASHER (A)	
252	3-938-951-01	WASHER (D)	
253	3-938-936-01	SPRING (H)	
254	3-938-930-01	SPRING (B)	
255	3-938-910-01	REEL, CAP	
* 256	3-938-912-01	ARM (UD)	
257	3-938-952-01	WASHER (E)	
258	3-938-948-01	WASHER (B)	
259	3-938-932-01	SPRING (D)	
260	3-938-908-01	CASSETTE, SPRING	
261	3-938-945-01	SCREW (E)	
262	3-017-428-01	FRAME (D)	
263	3-938-920-01	PLUNGER, K	
264	3-938-918-01	TRIGGER, ARM	
265	3-938-931-01	SPRING (C)	
266	3-938-921-01	GEAR (REEL)	
267	3-662-742-11	SW BOARD	
268	3-938-954-01	WASHER (G)	
269	3-938-947-01	SCREW (G)	

Ref. No.	Part No.	Description	Remark
270	3-017-431-01	BRACKET (MM)	
271	3-017-430-01	BELT	
272	3-017-596-01	FLYWHEEL (R) ASSY	
273	3-017-434-01	SCREW (H)	
274	3-017-595-01	FLYWHEEL (L) ASSY	
275	3-938-950-01	WASHER (C)	
276	3-017-433-01	SPRING (K)	
277	3-938-946-01	SCREW (F)	
* 278	3-938-919-01	ARM (FR)	
279	3-017-435-01	REFLECTOR	
280	3-017-429-01	GEAR (REF)	
281	3-938-917-01	GEAR (A)	
282	3-938-924-01	GEAR (P)	
283	3-938-923-01	GEAR (FR)	
284	X-3372-613-1	CLUTCH ASSY	
285	3-938-925-01	GEAR (IDL)	
286	3-938-922-01	GEAR (CAM)	
M691	3-016-425-01	MOTOR ASSY (CARSTAN/REEL)	
PM691	1-454-806-11	SOLENOID, PLUNGER	

(7) SPEAKER (L) SECTION

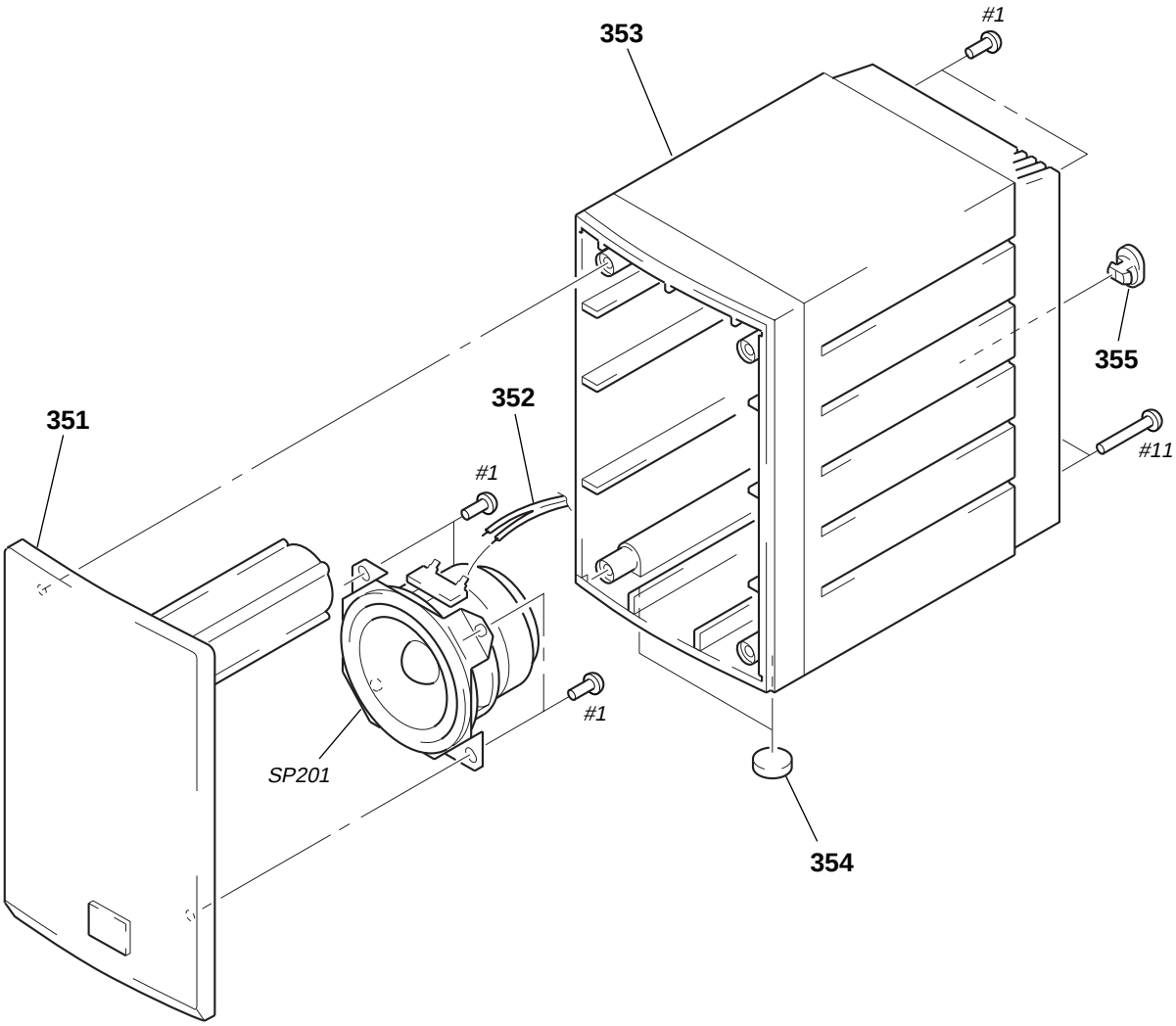


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
301	X-3374-211-1	FRONT SUB ASSY	
* 302	1-666-177-11	POWER AMP BOARD	
* 303	1-666-178-11	TERMINAL BOARD	
* 304	1-666-179-11	JACK BOARD	
305	3-014-113-01	CHASSIS (AMP)	
306	1-782-509-11	CORD, SPEAKER	
307	3-014-110-01	CABINET (REAR.SP-L)	
308	X-3374-496-1	CORD ASSY	
* 309	3-014-106-01	STOPPER (4P), CORD	
⚠310	1-575-651-11	CORD, POWER (D305L: AEP, IT, CET)	
⚠310	1-575-653-11	CORD, POWER (D305: E)	
⚠310	1-696-847-11	CORD, POWER (D305: AUS)	

Ref. No.	Part No.	Description	Remark
⚠310	1-751-520-11	CORD, POWER (D305L: UK)	
⚠310	1-769-743-11	CORD, POWER (D305: US, CND)	
311	3-703-244-00	BUSHING (FBS001), CORD (EXCEPT D305: E)	
311	4-966-266-01	BUSHING (S) (FBS002), CORD (D305: E)	
312	3-014-503-01	FOOT	
* 313	1-666-176-11	POWER BOARD	
314	4-812-134-11	RIVET (DIA. 3.5), NYLON (D305: AUS/D305L)	
* 315	3-017-037-01	INSULATOR (D305: AUS/D305L)	
316	3-017-101-01	LABEL, FUSE RATING (D305: US, CND, E)	
SP101	1-505-607-11	SPEAKER (8CM) (L-CH)	
⚠T501	1-431-353-11	TRANSFORMER, POWER (D305: AUS/D305L)	
⚠T501	1-431-354-11	TRANSFORMER, POWER (D305: US, CND, E)	

(8) SPEAKER (R) SECTION



Ref. No.	Part No.	Description	Remark
351	X-3374-211-1	FRONT SUB ASSY	
352	1-782-509-11	CORD, SPEAKER	
353	3-014-104-01	CABINET (REAR.SP-R)	
354	3-014-503-01	FOOT	
* 355	3-014-109-01	STOPPER, CORD	
SP201	1-505-607-11	SPEAKER (8CM) (R-CH)	

AUDIO

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 CET : East European, Russian
  IT : Italian AUS : Australian
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

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 critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

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

Ref. No.	Part No.	Description			Remark
*	A-3306-627-A	AUDIO BOARD, COMPLETE (D305L)			
*	A-3306-835-A	AUDIO BOARD, COMPLETE (D305)			
		**********			
	7-685-871-01	SCREW +BVTT 3X6 (S)			
		< CAPACITOR >			
C101	1-162-294-31	CERAMIC	0.001uF	10%	50V
C102	1-126-967-11	ELECT	47uF	20%	10V
C103	1-161-020-11	CERAMIC	0.039uF	10%	16V
C104	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C105	1-162-215-31	CERAMIC	47PF	5%	50V
C106	1-126-959-11	ELECT	0.47uF	20%	50V
C108	1-126-959-11	ELECT	0.47uF	20%	50V
C112	1-126-964-11	ELECT	10uF	20%	50V
C141	1-126-964-11	ELECT	10uF	20%	50V
C142	1-162-294-31	CERAMIC	0.001uF	10%	50V
C143	1-126-964-11	ELECT	10uF	20%	50V
C144	1-162-849-11	CERAMIC	0.068uF	10%	16V
C145	1-162-849-11	CERAMIC	0.068uF	10%	16V
C146	1-162-839-11	CERAMIC	0.01uF	10%	16V
C147	1-126-960-11	ELECT	1uF	20%	50V
C152	1-162-294-31	CERAMIC	0.001uF	10%	50V
C153	1-126-967-11	ELECT	47uF	20%	10V
C155	1-107-909-11	ELECT	47uF	20%	10V
C156	1-162-282-31	CERAMIC	100PF	10%	50V
C201	1-162-294-31	CERAMIC	0.001uF	10%	50V
C202	1-126-967-11	ELECT	47uF	20%	10V
C203	1-161-020-11	CERAMIC	0.039uF	10%	16V
C204	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C205	1-162-215-31	CERAMIC	47PF	5%	50V
C206	1-126-959-11	ELECT	0.47uF	20%	50V
C208	1-126-959-11	ELECT	0.47uF	20%	50V
C210	1-162-282-31	CERAMIC	100PF	10%	50V (D305L)
C212	1-126-964-11	ELECT	10uF	20%	50V
C241	1-126-964-11	ELECT	10uF	20%	50V
C242	1-162-294-31	CERAMIC	0.001uF	10%	50V
C243	1-126-964-11	ELECT	10uF	20%	50V
C244	1-162-849-11	CERAMIC	0.068uF	10%	16V
C245	1-162-849-11	CERAMIC	0.068uF	10%	16V
C246	1-162-839-11	CERAMIC	0.01uF	10%	16V
C247	1-126-960-11	ELECT	1uF	20%	50V
C252	1-162-294-31	CERAMIC	0.001uF	10%	50V
C253	1-126-967-11	ELECT	47uF	20%	10V
C255	1-107-909-11	ELECT	47uF	20%	10V
C256	1-162-282-31	CERAMIC	100PF	10%	50V
C301	1-126-933-11	ELECT	100uF	20%	10V
C302	1-126-925-11	ELECT	470uF	20%	10V
C303	1-126-963-11	ELECT	4.7uF	20%	50V
C304	1-126-933-11	ELECT	100uF	20%	10V
C307	1-161-494-00	CERAMIC	0.022uF		25V
C311	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C312	1-126-967-11	ELECT	47uF	20%	10V
C313	1-137-350-11	MYLAR	0.015uF	10%	100V
C314	1-162-294-31	CERAMIC	0.001uF	10%	50V
C315	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C316	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C324	1-126-961-11	ELECT	2.2uF	20%	50V
C325	1-126-961-11	ELECT	2.2uF	20%	50V
C326	1-126-963-11	ELECT	4.7uF	20%	50V
C327	1-126-967-11	ELECT	47uF	20%	10V
C328	1-126-959-11	ELECT	0.47uF	20%	50V
C329	1-137-189-11	FILM	0.18uF	5%	50V
C333	1-126-967-11	ELECT	47uF	20%	10V
C334	1-126-963-11	ELECT	4.7uF	20%	50V
C335	1-126-960-11	ELECT	1uF	20%	50V
C336	1-126-961-11	ELECT	2.2uF	20%	50V
C337	1-126-933-11	ELECT	100uF	20%	10V
C338	1-161-494-00	CERAMIC	0.022uF		25V
C339	1-161-494-00	CERAMIC	0.022uF		25V
C340	1-162-282-31	CERAMIC	100PF	10%	50V (D305L)
C340	1-162-290-31	CERAMIC	470PF	10%	50V (D305)
C341	1-162-282-31	CERAMIC	100PF	10%	50V (D305L)
C341	1-162-290-31	CERAMIC	470PF	10%	50V (D305)
C342	1-162-282-31	CERAMIC	100PF	10%	50V (D305L)
C342	1-162-290-31	CERAMIC	470PF	10%	50V (D305)
C344	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remark
C345	1-162-306-11	CERAMIC	0.01uF	20%	16V
C346	1-162-306-11	CERAMIC	0.01uF	20%	16V
C347	1-126-967-11	ELECT	47uF	20%	10V
C348	1-126-959-11	ELECT	0.47uF	20%	50V
C350	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C351	1-104-652-11	ELECT	470uF	20%	10V
C352	1-126-933-11	ELECT	100uF	20%	10V
C353	1-126-940-11	ELECT	330uF	20%	25V
C354	1-161-494-00	CERAMIC	0.022uF		25V
C355	1-126-967-11	ELECT	47uF	20%	10V
C356	1-161-494-00	CERAMIC	0.022uF		25V
C357	1-126-933-11	ELECT	100uF	20%	10V
C358	1-161-494-00	CERAMIC	0.022uF		25V
C359	1-126-964-11	ELECT	10uF	20%	50V
C360	1-161-494-00	CERAMIC	0.022uF		25V
C361	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
* CN301	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN303	1-569-312-11	SOCKET, CONNECTOR (L TYRE) 27P			
CN305	1-573-826-11	CONNECTOR, BOARD TO BOARD 12P			
* CNP301	1-779-536-11	PLUG, CONNECTOR 4P (POWER IN)			
CNP302	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
* CNP304	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
* CNP306	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
* CNP307	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P			
		< DIODE >			
D301	8-719-991-33	DIODE 1SS133T-77			
D304	8-719-991-33	DIODE 1SS133T-77			
D305	8-719-991-33	DIODE 1SS133T-77			
D307	8-719-991-33	DIODE 1SS133T-77			
D308	8-719-991-33	DIODE 1SS133T-77			
D309	8-719-991-33	DIODE 1SS133T-77			
D310	8-719-991-33	DIODE 1SS133T-77			
D311	8-719-110-09	DIODE RD8.2ES-B3			
D312	8-719-991-33	DIODE 1SS133T-77			
D313	8-719-109-89	DIODE RD5.6ESB2			
D314	8-719-991-33	DIODE 1SS133T-77			
D315	8-719-921-89	DIODE MTZJ-13C			
D316	8-719-991-33	DIODE 1SS133T-77			
D317	8-719-991-33	DIODE 1SS133T-77			
D318	8-719-991-33	DIODE 1SS133T-77			
D319	8-719-991-33	DIODE 1SS133T-77			
D320	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC301	8-759-264-71	IC TA2068N			
IC302	8-759-432-41	IC BH3854AS			
IC303	8-759-701-54	IC NJM2073D			
IC305	8-759-905-47	IC BA338			
		< JACK >			
J302	1-770-612-12	JACK, PIN 2P (SIGNAL OUTPUT) (D305)			
* J302	1-770-612-21	JACK, PIN 2P (SIGNAL OUTPUT) (D305L)			

Ref. No.	Part No.	Description	Remark
		< FERRITE BEAD INDUCTOR >	
JW121	1-410-397-21	FERRITE BEAD INDUCTOR (D305L)	
		< COIL >	
L154	1-410-397-21	FERRITE BEAD INDUCTOR (D305L)	
L154	1-247-807-31	CARBON 100 5% 1/4W (D305)	
L254	1-410-397-21	FERRITE BEAD INDUCTOR (D305L)	
L254	1-247-807-31	CARBON 100 5% 1/4W (D305)	
		< LEAD PIN >	
* P303	1-564-187-00	PIN, CONNECTOR	
* P304	1-564-187-00	PIN, CONNECTOR	
		< TRANSISTOR >	
Q102	8-729-900-74	TRANSISTOR DTC143TS	
Q103	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q131	8-729-900-74	TRANSISTOR DTC143TS	
Q132	8-729-900-74	TRANSISTOR DTC143TS	
Q202	8-729-900-74	TRANSISTOR DTC143TS	
Q203	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q231	8-729-900-74	TRANSISTOR DTC143TS	
Q232	8-729-900-74	TRANSISTOR DTC143TS	
Q301	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q302	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q303	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q304	8-729-422-57	TRANSISTOR UN4111	
Q305	8-729-900-80	TRANSISTOR DTC114ES	
Q306	8-729-900-80	TRANSISTOR DTC114ES	
Q307	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q308	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q309	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q310	8-729-900-80	TRANSISTOR DTC114ES	
Q311	8-729-195-23	TRANSISTOR 2SA952	
Q312	8-729-900-80	TRANSISTOR DTC114ES	
Q313	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q314	8-729-900-80	TRANSISTOR DTC114ES	
Q315	8-729-209-15	TRANSISTOR 2SD2012	
Q316	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q317	8-729-900-80	TRANSISTOR DTC114ES	
Q318	8-729-209-15	TRANSISTOR 2SD2012	
Q319	8-729-011-92	TRANSISTOR 2SC2001TP-K1K2	
Q320	8-729-195-23	TRANSISTOR 2SA952	
Q323	8-729-265-52	TRANSISTOR 2SC2655	
Q324	8-729-422-57	TRANSISTOR UN4111	
Q325	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q326	8-729-422-57	TRANSISTOR UN4111	
Q327	8-729-900-80	TRANSISTOR DTC114ES	
Q328	8-729-900-80	TRANSISTOR DTC114ES	
Q329	8-729-194-57	TRANSISTOR 2SC945-P	
Q330	8-729-194-57	TRANSISTOR 2SC945-P	
Q331	8-729-900-80	TRANSISTOR DTC114ES	
Q332	8-729-422-57	TRANSISTOR UN4111	
Q333	8-729-422-57	TRANSISTOR UN4111	
Q334	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q335	8-729-422-57	TRANSISTOR UN4111	

AUDIO **CD**

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-249-431-11	CARBON	15K	5%	1/4W
R102	1-249-404-00	CARBON	82	5%	1/4W
R103	1-249-441-11	CARBON	100K	5%	1/4W
R104	1-247-843-11	CARBON	3.3K	5%	1/4W
R110	1-247-807-31	CARBON	100	5%	1/4W
R111	1-247-887-00	CARBON	220K	5%	1/4W
R112	1-249-437-11	CARBON	47K	5%	1/4W
R114	1-249-417-11	CARBON	1K	5%	1/4W
R115	1-249-417-11	CARBON	1K	5%	1/4W
R116	1-249-437-11	CARBON	47K	5%	1/4W
R127	1-249-437-11	CARBON	47K	5%	1/4W
R140	1-249-425-11	CARBON	4.7K	5%	1/4W
R145	1-249-429-11	CARBON	10K	5%	1/4W
R146	1-249-417-11	CARBON	1K	5%	1/4W
R151	1-249-429-11	CARBON	10K	5%	1/4W
R152	1-249-425-11	CARBON	4.7K	5%	1/4W
R153	1-249-417-11	CARBON	1K	5%	1/4W
R155	1-247-887-00	CARBON	220K	5%	1/4W
R156	1-249-425-11	CARBON	4.7K	5%	1/4W
R201	1-249-431-11	CARBON	15K	5%	1/4W
R202	1-249-404-00	CARBON	82	5%	1/4W
R203	1-249-441-11	CARBON	100K	5%	1/4W
R204	1-247-843-11	CARBON	3.3K	5%	1/4W
R210	1-247-807-31	CARBON	100	5%	1/4W
R211	1-247-887-00	CARBON	220K	5%	1/4W
R212	1-249-437-11	CARBON	47K	5%	1/4W
R214	1-249-417-11	CARBON	1K	5%	1/4W
R215	1-249-417-11	CARBON	1K	5%	1/4W
R216	1-249-437-11	CARBON	47K	5%	1/4W
R227	1-249-437-11	CARBON	47K	5%	1/4W
R240	1-249-425-11	CARBON	4.7K	5%	1/4W
R245	1-249-429-11	CARBON	10K	5%	1/4W
R246	1-249-417-11	CARBON	1K	5%	1/4W
R251	1-249-429-11	CARBON	10K	5%	1/4W
R252	1-249-425-11	CARBON	4.7K	5%	1/4W
R253	1-249-417-11	CARBON	1K	5%	1/4W
R255	1-247-887-00	CARBON	220K	5%	1/4W
R256	1-249-425-11	CARBON	4.7K	5%	1/4W
R301	1-247-903-00	CARBON	1M	5%	1/4W
R302	1-249-441-11	CARBON	100K	5%	1/4W
R303	1-249-429-11	CARBON	10K	5%	1/4W
R304	1-249-429-11	CARBON	10K	5%	1/4W
R305	1-249-421-11	CARBON	2.2K	5%	1/4W
R306	1-249-429-11	CARBON	10K	5%	1/4W
R307	1-247-807-31	CARBON	100	5%	1/4W
R311	1-249-389-11	CARBON	4.7	5%	1/4W
R312	1-249-439-11	CARBON	68K	5%	1/4W
R313	1-249-389-11	CARBON	4.7	5%	1/4W
R314	1-249-429-11	CARBON	10K	5%	1/4W
R315	1-249-429-11	CARBON	10K	5%	1/4W
R316	1-249-425-11	CARBON	4.7K	5%	1/4W
R317	1-247-807-31	CARBON	100	5%	1/4W
R318	1-249-435-11	CARBON	33K	5%	1/4W (D305)
R319	1-247-895-91	CARBON	470K	5%	1/4W
R320	1-247-903-00	CARBON	1M	5%	1/4W
R323	1-249-425-11	CARBON	4.7K	5%	1/4W
R324	1-249-417-11	CARBON	1K	5%	1/4W
R325	1-249-417-11	CARBON	1K	5%	1/4W
R327	1-249-417-11	CARBON	1K	5%	1/4W
R328	1-249-417-11	CARBON	1K	5%	1/4W
R329	1-249-417-11	CARBON	1K	5%	1/4W
R331	1-247-863-91	CARBON	22K	5%	1/4W
R332	1-249-437-11	CARBON	47K	5%	1/4W
R334	1-249-429-11	CARBON	10K	5%	1/4W
R335	1-249-425-11	CARBON	4.7K	5%	1/4W
R336	1-247-807-31	CARBON	100	5%	1/4W
R337	1-249-437-11	CARBON	47K	5%	1/4W
R338	1-249-417-11	CARBON	1K	5%	1/4W
R339	1-249-417-11	CARBON	1K	5%	1/4W
R340	1-249-417-11	CARBON	1K	5%	1/4W
R342	1-249-425-11	CARBON	4.7K	5%	1/4W
R343	1-249-429-11	CARBON	10K	5%	1/4W
R344	1-249-429-11	CARBON	10K	5%	1/4W
R345	1-249-441-11	CARBON	100K	5%	1/4W
R347	1-249-401-11	CARBON	47	5%	1/4W
R349	1-249-435-11	CARBON	33K	5%	1/4W
R351	1-249-401-11	CARBON	47	5%	1/4W
R352	1-249-428-11	CARBON	8.2K	5%	1/4W
R353	1-249-417-11	CARBON	1K	5%	1/4W
R355	1-247-885-00	CARBON	180K	5%	1/4W
R356	1-249-437-11	CARBON	47K	5%	1/4W
R357	1-249-421-11	CARBON	2.2K	5%	1/4W
R360	1-249-441-11	CARBON	100K	5%	1/4W
R361	1-247-815-91	CARBON	220	5%	1/4W
R362	1-247-807-31	CARBON	100	5%	1/4W
R363	1-249-441-11	CARBON	100K	5%	1/4W
R364	1-249-413-11	CARBON	470	5%	1/4W
R367	1-247-807-31	CARBON	100	5%	1/4W
R368	1-249-413-11	CARBON	470	5%	1/4W
R369	1-247-807-31	CARBON	100	5%	1/4W
R370	1-249-441-11	CARBON	100K	5%	1/4W
R371	1-249-421-11	CARBON	2.2K	5%	1/4W
R376	1-249-421-11	CARBON	2.2K	5%	1/4W
R377	1-249-421-11	CARBON	2.2K	5%	1/4W
R378	1-247-807-31	CARBON	100	5%	1/4W
R379	1-247-815-91	CARBON	220	5%	1/4W
		< TRANSFORMER >			
T301	1-429-820-11	TRANSFORMER, BIAS OSCILLATION			
**********					
*	A-3306-628-A	CD BOARD, COMPLETE (D305: AUS/D305L)			
*	A-3306-837-A	CD BOARD, COMPLETE (D305: US, CND, E)			
		**********			
		< CAPACITOR >			
C701	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C702	1-136-165-00	FILM	0.1uF	5%	50V
C703	1-136-165-00	FILM	0.1uF	5%	50V
C704	1-136-165-00	FILM	0.1uF	5%	50V
C705	1-131-375-00	TANTALUM	4.7uF	10%	10V
C706	1-136-159-00	FILM	0.033uF	5%	50V
C707	1-136-156-00	FILM	0.018uF	5%	50V

Ref. No.	Part No.	Description			Remark
C708	1-162-199-31	CERAMIC	10PF	5%	50V
C709	1-126-162-11	ELECT	3.3uF	20%	50V
C710	1-136-495-11	FILM	0.068uF	5%	50V
C711	1-162-215-31	CERAMIC	47PF	5%	50V
C712	1-162-306-11	CERAMIC	0.01uF	20%	16V
C713	1-136-159-00	FILM	0.033uF	5%	50V
C714	1-162-306-11	CERAMIC	0.01uF	20%	16V
C715	1-136-159-00	FILM	0.033uF	5%	50V
C716	1-136-165-00	FILM	0.1uF	5%	50V
C717	1-126-967-11	ELECT	47uF	20%	10V
C718	1-126-964-11	ELECT	10uF	20%	50V
C721	1-130-491-00	MYLAR	0.047uF	5%	50V
C722	1-161-494-00	CERAMIC	0.022uF		25V
C723	1-137-399-11	FILM	0.1uF	5%	50V
C724	1-128-241-11	ELECT	220uF	20%	10V
C725	1-162-199-31	CERAMIC	10PF	5%	50V
C726	1-162-294-31	CERAMIC	0.001uF	10%	50V
C727	1-162-306-11	CERAMIC	0.01uF	20%	16V
C728	1-162-306-11	CERAMIC	0.01uF	20%	16V
C729	1-126-154-11	ELECT	47uF	20%	6.3V
C730	1-104-652-11	ELECT	470uF	20%	10V
C731	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C732	1-130-299-00	FILM	0.012uF	5%	50V
C734	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C741	1-126-154-11	ELECT	47uF	20%	6.3V
C742	1-136-173-00	FILM	0.47uF	5%	50V
C743	1-162-290-31	CERAMIC	470PF	10%	50V
C744	1-162-286-21	CERAMIC	220PF	10%	50V
C745	1-136-169-00	FILM	0.22uF	5%	50V
C746	1-162-306-11	CERAMIC	0.01uF	20%	16V
C747	1-137-370-11	FILM	0.01uF	5%	50V
C750	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C752	1-162-201-31	CERAMIC	12PF	5%	50V
C753	1-162-203-31	CERAMIC	15PF	5%	50V
C754	1-126-154-11	ELECT	47uF	20%	6.3V
C755	1-162-306-11	CERAMIC	0.01uF	20%	16V
C756	1-162-306-11	CERAMIC	0.01uF	20%	16V
C757	1-162-306-11	CERAMIC	0.01uF	20%	16V
C758	1-162-306-11	CERAMIC	0.01uF	20%	16V
C759	1-162-306-11	CERAMIC	0.01uF	20%	16V
C760	1-162-306-11	CERAMIC	0.01uF	20%	16V
C761	1-162-306-11	CERAMIC	0.01uF	20%	16V
C762	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305: US, CND, E)
C763	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C764	1-126-163-11	ELECT	4.7uF	20%	50V
C765	1-162-306-11	CERAMIC	0.01uF	20%	16V
C773	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C774	1-126-163-11	ELECT	4.7uF	20%	50V
C782	1-162-294-31	CERAMIC	0.001uF	10%	50V
C787	1-128-241-11	ELECT	220uF	20%	10V
C788	1-162-306-11	CERAMIC	0.01uF	20%	16V
C792	1-162-290-31	CERAMIC	470PF	10%	50V
C793	1-162-290-31	CERAMIC	470PF	10%	50V
C796	1-162-306-11	CERAMIC	0.01uF	20%	16V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CNP701	1-779-466-11	CONNECTOR, FFC/FPC 16P	
* CNP705	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CNP706	1-691-068-21	HOUSING, CONNECTOR 9P	
		< IC >	
IC701	8-752-069-56	IC CXA1782BQ	
IC702	8-752-372-94	IC CXD2507AQ	
IC703	8-759-473-42	IC BA6898FP	
IC704	8-759-426-44	IC 27C512-C35A65-V3.03	
		< COIL >	
L701	1-410-397-21	FERRITE BEAD INDUCTOR	
L702	1-410-397-21	FERRITE BEAD INDUCTOR	
L752	1-410-324-11	INDUCTOR 4.7uH	
L760	1-410-397-21	FERRITE BEAD INDUCTOR	
L770	1-410-397-21	FERRITE BEAD INDUCTOR	
		< TRANSISTOR >	
Q701	8-729-195-23	TRANSISTOR 2SA952	
Q703	8-729-900-74	TRANSISTOR DTC143TS	
		< RESISTOR >	
R700	1-249-429-11	CARBON 10K 5%	1/4W
R701	1-249-440-11	CARBON 82K 5%	1/4W
R702	1-247-896-11	CARBON 510K 5%	1/4W
R703	1-249-441-11	CARBON 100K 5%	1/4W
R704	1-247-883-00	CARBON 150K 5%	1/4W
R705	1-249-437-11	CARBON 47K 5%	1/4W
R706	1-247-876-11	CARBON 75K 5%	1/4W
R707	1-249-432-11	CARBON 18K 5%	1/4W
R708	1-247-883-00	CARBON 150K 5%	1/4W
R709	1-247-862-11	CARBON 20K 5%	1/4W
R710	1-249-393-11	CARBON 10 5%	1/4W
R714	1-247-883-00	CARBON 150K 5%	1/4W
R715	1-249-430-11	CARBON 12K 5%	1/4W
R716	1-249-430-11	CARBON 12K 5%	1/4W
R717	1-249-429-11	CARBON 10K 5%	1/4W
R718	1-247-899-11	CARBON 680K 5%	1/4W
R720	1-247-891-00	CARBON 330K 5%	1/4W
R722	1-249-439-11	CARBON 68K 5%	1/4W
R723	1-249-440-11	CARBON 82K 5%	1/4W
R725	1-249-437-11	CARBON 47K 5%	1/4W
R726	1-249-429-11	CARBON 10K 5%	1/4W
R727	1-249-429-11	CARBON 10K 5%	1/4W
R730	1-249-435-11	CARBON 33K 5%	1/4W
R731	1-247-863-91	CARBON 22K 5%	1/4W
R734	1-249-437-11	CARBON 47K 5%	1/4W
R735	1-249-429-11	CARBON 10K 5%	1/4W
R736	1-249-417-11	CARBON 1K 5%	1/4W
R740	1-247-843-11	CARBON 3.3K 5%	1/4W
R741	1-249-417-11	CARBON 1K 5%	1/4W
R742	1-249-429-11	CARBON 10K 5%	1/4W
R743	1-247-903-00	CARBON 1M 5%	1/4W
R744	1-247-887-00	CARBON 220K 5%	1/4W
R745	1-249-429-11	CARBON 10K 5%	1/4W
R746	1-249-437-11	CARBON 47K 5%	1/4W

Ref. No.	Part No.	Description			Remark
R748	1-249-429-11	CARBON	10K	5%	1/4W
R749	1-249-429-11	CARBON	10K	5%	1/4W
R750	1-249-413-11	CARBON	470	5%	1/4W
R751	1-247-807-31	CARBON	100	5%	1/4W
R752	1-249-429-11	CARBON	10K	5%	1/4W
R753	1-249-429-11	CARBON	10K	5%	1/4W
R754	1-249-429-11	CARBON	10K	5%	1/4W
R756	1-249-440-11	CARBON	82K	5%	1/4W
R757	1-249-439-11	CARBON	68K	5%	1/4W
R758	1-249-439-11	CARBON	68K	5%	1/4W
R759	1-249-439-11	CARBON	68K	5%	1/4W
R760	1-249-417-11	CARBON	1K	5%	1/4W
R761	1-249-417-11	CARBON	1K	5%	1/4W
R762	1-249-417-11	CARBON	1K	5%	1/4W
R763	1-249-417-11	CARBON	1K	5%	1/4W
R764	1-249-417-11	CARBON	1K	5%	1/4W
R766	1-249-417-11	CARBON	1K	5%	1/4W
R776	1-249-417-11	CARBON	1K	5%	1/4W
R791	1-247-843-11	CARBON	3.3K	5%	1/4W
		< VARIABLE RESISTOR >			
RV701	1-241-786-11	RES, ADJ, CARBON 22K			
RV702	1-241-786-11	RES, ADJ, CARBON 22K			
RV703	1-223-459-21	RES, ADJ, CERMET 2.2K			
RV704	1-241-786-11	RES, ADJ, CARBON 22K			
		< VIBRATOR >			
X701	1-767-226-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
	1-639-678-12	CD MOTOR BOARD			
		**********			
		< CONNECTOR >			
CNP707	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< SWITCH >			
S701	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					
*	A-3306-631-A	CONTROL BOARD, COMPLETE (D305L)			
*	A-3306-832-A	CONTROL BOARD, COMPLETE (D305: AUS)			
*	A-3306-836-A	CONTROL BOARD, COMPLETE (D305: US, CND, E)			
		**********			
*	3-014-121-01	HOLDER (LCD)			
*	3-014-130-01	SHEET, DIFFUSION			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
		< CAPACITOR >			
C801	1-126-964-11	ELECT	10uF	20%	50V
C802	1-104-905-11	CAPACITOR	0.22F		5.5V
C803	1-126-967-11	ELECT	47uF	20%	10V
C804	1-162-306-11	CERAMIC	0.01uF	20%	16V
C805	1-126-933-11	ELECT	100uF	20%	10V
C806	1-162-306-11	CERAMIC	0.01uF	20%	16V
C807	1-102-516-11	CERAMIC	27PF	5%	50V
C808	1-102-516-11	CERAMIC	27PF	5%	50V

Ref. No.	Part No.	Description			Remark
C809	1-161-494-00	CERAMIC	0.022uF		25V
C810	1-126-964-11	ELECT	10uF	20%	50V
C811	1-126-967-11	ELECT	47uF	20%	10V
C813	1-162-306-11	CERAMIC	0.01uF	20%	16V
C814	1-162-306-11	CERAMIC	0.01uF	20%	16V
C815	1-162-306-11	CERAMIC	0.01uF	20%	16V
C816	1-162-306-11	CERAMIC	0.01uF	20%	16V
C817	1-102-518-11	CERAMIC	33PF	5%	50V
C818	1-102-516-11	CERAMIC	27PF	5%	50V
C819	1-102-516-11	CERAMIC	27PF	5%	50V
C820	1-102-518-11	CERAMIC	33PF	5%	50V
C821	1-162-306-11	CERAMIC	0.01uF	20%	16V
C822	1-162-306-11	CERAMIC	0.01uF	20%	16V
C823	1-162-282-31	CERAMIC	100PF	10%	50V
C824	1-162-282-31	CERAMIC	100PF	10%	50V
C825	1-162-282-31	CERAMIC	100PF	10%	50V
C826	1-162-282-31	CERAMIC	100PF	10%	50V
C827	1-162-282-31	CERAMIC	100PF	10%	50V
C829	1-162-282-31	CERAMIC	100PF	10%	50V
C830	1-162-282-31	CERAMIC	100PF	10%	50V
C831	1-162-282-31	CERAMIC	100PF	10%	50V
C832	1-162-282-31	CERAMIC	100PF	10%	50V
C833	1-162-282-31	CERAMIC	100PF	10%	50V
C834	1-162-282-31	CERAMIC	100PF	10%	50V
C835	1-162-282-31	CERAMIC	100PF	10%	50V
C836	1-162-282-31	CERAMIC	100PF	10%	50V
C837	1-162-282-31	CERAMIC	100PF	10%	50V
C838	1-162-282-31	CERAMIC	100PF	10%	50V
C839	1-162-306-11	CERAMIC	0.01uF	20%	16V
C841	1-162-306-11	CERAMIC	0.01uF	20%	16V
C842	1-162-306-11	CERAMIC	0.01uF	20%	16V
C843	1-162-306-11	CERAMIC	0.01uF	20%	16V
C844	1-162-306-11	CERAMIC	0.01uF	20%	16V
C845	1-162-282-31	CERAMIC	100PF	10%	50V
C846	1-162-306-11	CERAMIC	0.01uF	20%	16V
C847	1-162-306-11	CERAMIC	0.01uF	20%	16V
C848	1-162-306-11	CERAMIC	0.01uF	20%	16V
C849	1-162-282-31	CERAMIC	100PF	10%	50V
C850	1-162-282-31	CERAMIC	100PF	10%	50V
C851	1-162-282-31	CERAMIC	100PF	10%	50V
C852	1-162-306-11	CERAMIC	0.01uF	20%	16V
C853	1-162-282-31	CERAMIC	100PF	10%	50V
C854	1-162-282-31	CERAMIC	100PF	10%	50V
C855	1-162-282-31	CERAMIC	100PF	10%	50V
C856	1-162-282-31	CERAMIC	100PF	10%	50V
C858	1-126-933-11	ELECT	100uF	20%	10V
C859	1-162-306-11	CERAMIC	0.01uF	20%	16V
C860	1-162-306-11	CERAMIC	0.01uF	20%	16V
C861	1-162-306-11	CERAMIC	0.01uF	20%	16V
C863	1-162-306-11	CERAMIC	0.01uF	20%	16V
C866	1-126-964-11	ELECT	10uF	20%	50V
C867	1-162-306-11	CERAMIC	0.01uF	20%	16V
C868	1-162-306-11	CERAMIC	0.01uF	20%	16V
C869	1-162-306-11	CERAMIC	0.01uF	20%	16V
C901	1-126-967-11	ELECT	47uF	20%	10V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
	CN801	1-774-493-11 CONNECTOR, FFC/FPC 27P	
	CNP802	1-770-389-11 PIN, CONNECTOR (PC BOARD) 5P	
	CNP803	1-770-387-11 PIN, CONNECTOR (PC BOARD) 3P	
*	CNP804	1-564-704-11 PIN, CONNECTOR (SMALL TYPE) 2P	
	CNP805	1-568-852-11 CONNECTOR, FFC/FPC 9P	
		< DIODE >	
	D801	8-719-991-33 DIODE 1SS133T-77	
	D802	8-719-991-33 DIODE 1SS133T-77	
	D803	8-719-991-33 DIODE 1SS133T-77	
	D804	8-719-991-33 DIODE 1SS133T-77	
	D805	8-719-991-33 DIODE 1SS133T-77	
		< IC >	
	IC801	8-752-882-24 IC CXP83120A-019Q	
	IC802	8-759-449-53 IC S-81256PG-Z	
	IC803	8-759-511-42 IC S-80730AN	
		< CONNECTOR >	
*	KH805	1-573-287-11 HOLDER, CABLE 2P	
		< COIL >	
	L801	1-408-117-00 INDUCTOR 10uH	
	L802	1-412-832-11 INDUCTOR 1uH	
		< LIQUID CRYSTAL DISPLAY >	
	LCD801	1-801-786-11 DISPLAY PANEL, LIQUID CRYSTAL	
		< TRANSISTOR >	
	Q801	8-729-194-57 TRANSISTOR 2SC945-P	
	Q802	8-729-922-66 TRANSISTOR 2SC2410SN	
	Q803	8-729-922-66 TRANSISTOR 2SC2410SN	
	Q804	8-729-900-80 TRANSISTOR DTC114ES	
	Q805	8-729-195-23 TRANSISTOR 2SA952	
		< RESISTOR >	
	R801	1-249-417-11 CARBON 1K 5% 1/4W	
	R803	1-249-417-11 CARBON 1K 5% 1/4W	
	R804	1-249-417-11 CARBON 1K 5% 1/4W	
	R805	1-249-417-11 CARBON 1K 5% 1/4W	
	R806	1-249-417-11 CARBON 1K 5% 1/4W	
	R807	1-249-429-11 CARBON 10K 5% 1/4W	
	R808	1-249-417-11 CARBON 1K 5% 1/4W	
	R809	1-249-417-11 CARBON 1K 5% 1/4W	
	R810	1-249-417-11 CARBON 1K 5% 1/4W	
	R811	1-249-417-11 CARBON 1K 5% 1/4W	
	R812	1-249-429-11 CARBON 10K 5% 1/4W	
	R813	1-249-429-11 CARBON 10K 5% 1/4W	
	R814	1-249-429-11 CARBON 10K 5% 1/4W	
	R815	1-249-417-11 CARBON 1K 5% 1/4W	
	R816	1-249-429-11 CARBON 10K 5% 1/4W	
	R818	1-249-417-11 CARBON 1K 5% 1/4W	
	R819	1-249-417-11 CARBON 1K 5% 1/4W	
	R820	1-249-417-11 CARBON 1K 5% 1/4W	
	R821	1-249-417-11 CARBON 1K 5% 1/4W	
	R822	1-249-429-11 CARBON 10K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R823	1-249-429-11	CARBON 10K 5% 1/4W	
R824	1-249-417-11	CARBON 1K 5% 1/4W	
R825	1-249-417-11	CARBON 1K 5% 1/4W	
R826	1-249-413-11	CARBON 470 5% 1/4W	
R827	1-249-413-11	CARBON 470 5% 1/4W	
R828	1-249-417-11	CARBON 1K 5% 1/4W	
R829	1-249-417-11	CARBON 1K 5% 1/4W	
R830	1-249-429-11	CARBON 10K 5% 1/4W	
R831	1-249-429-11	CARBON 10K 5% 1/4W	
R832	1-249-425-11	CARBON 4.7K 5% 1/4W	
R833	1-249-425-11	CARBON 4.7K 5% 1/4W	
R834	1-249-429-11	CARBON 10K 5% 1/4W	
R835	1-249-429-11	CARBON 10K 5% 1/4W	
R836	1-249-429-11	CARBON 10K 5% 1/4W	
R837	1-249-417-11	CARBON 1K 5% 1/4W	
R841	1-249-429-11	CARBON 10K 5% 1/4W	
R842	1-249-429-11	CARBON 10K 5% 1/4W	
R843	1-249-429-11	CARBON 10K 5% 1/4W	
R844	1-247-863-91	CARBON 22K 5% 1/4W	
R845	1-249-411-11	CARBON 330 5% 1/4W	
R846	1-249-429-11	CARBON 10K 5% 1/4W	
R847	1-249-417-11	CARBON 1K 5% 1/4W	
R848	1-249-417-11	CARBON 1K 5% 1/4W	
R849	1-249-417-11	CARBON 1K 5% 1/4W	
R850	1-249-417-11	CARBON 1K 5% 1/4W	
R851	1-249-417-11	CARBON 1K 5% 1/4W	
R852	1-249-417-11	CARBON 1K 5% 1/4W	
R853	1-249-417-11	CARBON 1K 5% 1/4W	
R854	1-249-437-11	CARBON 47K 5% 1/4W	
R855	1-249-417-11	CARBON 1K 5% 1/4W	
R856	1-249-425-11	CARBON 4.7K 5% 1/4W	
R857	1-249-425-11	CARBON 4.7K 5% 1/4W	
R858	1-249-425-11	CARBON 4.7K 5% 1/4W	
R859	1-249-425-11	CARBON 4.7K 5% 1/4W	
R860	1-249-425-11	CARBON 4.7K 5% 1/4W	(D305: AUS)
R861	1-249-421-11	CARBON 2.2K 5% 1/4W	(D305: AUS)
R866	1-249-441-11	CARBON 100K 5% 1/4W	
R867	1-249-417-11	CARBON 1K 5% 1/4W	
R868	1-249-441-11	CARBON 100K 5% 1/4W	
R869	1-249-428-11	CARBON 8.2K 5% 1/4W	
R872	1-249-429-11	CARBON 10K 5% 1/4W	
R873	1-249-437-11	CARBON 47K 5% 1/4W	
R877	1-249-437-11	CARBON 47K 5% 1/4W	
R880	1-249-437-11	CARBON 47K 5% 1/4W	
R881	1-249-437-11	CARBON 47K 5% 1/4W	
R882	1-249-425-11	CARBON 4.7K 5% 1/4W	
R900	1-249-417-11	CARBON 1K 5% 1/4W	
R901	1-249-417-11	CARBON 1K 5% 1/4W	
R902	1-249-417-11	CARBON 1K 5% 1/4W	
R903	1-249-417-11	CARBON 1K 5% 1/4W	
R904	1-249-417-11	CARBON 1K 5% 1/4W	
R905	1-249-417-11	CARBON 1K 5% 1/4W	
R906	1-249-417-11	CARBON 1K 5% 1/4W	
R907	1-249-417-11	CARBON 1K 5% 1/4W	
R908	1-249-417-11	CARBON 1K 5% 1/4W	
R909	1-249-417-11	CARBON 1K 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R910	1-249-417-11	CARBON	1K	5%	1/4W
R911	1-249-417-11	CARBON	1K	5%	1/4W
R912	1-249-417-11	CARBON	1K	5%	1/4W
R913	1-249-417-11	CARBON	1K	5%	1/4W
R914	1-249-417-11	CARBON	1K	5%	1/4W
R915	1-249-417-11	CARBON	1K	5%	1/4W
R916	1-249-417-11	CARBON	1K	5%	1/4W
R917	1-249-417-11	CARBON	1K	5%	1/4W
R918	1-249-417-11	CARBON	1K	5%	1/4W
R919	1-249-417-11	CARBON	1K	5%	1/4W
R920	1-249-417-11	CARBON	1K	5%	1/4W
R921	1-249-417-11	CARBON	1K	5%	1/4W
R922	1-249-417-11	CARBON	1K	5%	1/4W
R923	1-249-417-11	CARBON	1K	5%	1/4W
R924	1-249-417-11	CARBON	1K	5%	1/4W
R925	1-249-417-11	CARBON	1K	5%	1/4W
R926	1-249-417-11	CARBON	1K	5%	1/4W
R927	1-249-417-11	CARBON	1K	5%	1/4W
		< VIBRATOR >			
X801	1-760-105-11	VIBRATOR, CRYSTAL (32.768kHz)			
X802	1-767-184-21	VIBRATOR, CERAMIC (4.19MHz)			

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*	1-662-743-11	HEAD BOARD			
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*	1-666-187-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C154	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305L)
C254	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305L)
		< JACK >			
J301	1-566-891-11	JACK (🎧)			
		< CONNECTOR >			
* KH302	1-565-386-11	HOLDER, CABLE 5P			
		< COIL >			
L151	1-247-807-31	CARBON	100	5%	1/4W (D305L)
L151	1-410-397-21	FERRITE BEAD INDUCTOR (D305)			
L251	1-247-807-31	CARBON	100	5%	1/4W (D305L)
L251	1-410-397-21	FERRITE BEAD INDUCTOR (D305)			
L351	1-410-397-21	FERRITE BEAD INDUCTOR			

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*	1-666-179-11	JACK BOARD			
		**********			
		< CAPACITOR >			
C186	1-162-282-31	CERAMIC	100PF	10%	50V
C286	1-162-282-31	CERAMIC	100PF	10%	50V
C384	1-161-494-00	CERAMIC	0.022uF		25V
		< JACK >			
* J501	1-537-405-11	TERMINAL BOARD (2P SP)			(SPEAKER OUT R-ch)
* J502	1-750-178-31	JACK, PIN 2P (SIGNAL INPUT)			
		< CONNECTOR >			
* KH511	1-565-385-11	HOLDER, CABLE 4P			
* KH513	1-573-287-11	HOLDER, CABLE 2P			

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*	1-666-186-11	LAMP BOARD			
		**********			
		< CONNECTOR >			
* KH804	1-573-287-11	HOLDER, CABLE 2P			
		< PILOT LAMP >			
PL801	1-517-474-21	LAMP, PILOT (LCD BACK LIGHT)			
PL802	1-517-474-21	LAMP, PILOT (LCD BACK LIGHT)			

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*	A-3306-625-A	LINE BOARD, COMPLETE (D305L)			
*	A-3306-833-A	LINE BOARD, COMPLETE (D305)			
		**********			
		< CAPACITOR >			
C123	1-162-282-31	CERAMIC	100PF	10%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C126	1-126-964-11	ELECT	10uF	20%	50V
C223	1-162-282-31	CERAMIC	100PF	10%	50V
C225	1-126-964-11	ELECT	10uF	20%	50V
C226	1-126-964-11	ELECT	10uF	20%	50V
C318	1-126-963-11	ELECT	4.7uF	20%	50V
C319	1-161-494-00	CERAMIC	0.022uF		25V
C320	1-126-933-11	ELECT	100uF	20%	10V
C321	1-126-967-11	ELECT	47uF	20%	10V
		< DIODE >			
D321	8-719-991-33	DIODE 1SS133T-77			
D322	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC304	8-759-634-51	IC M5218AP			
		< JACK >			
J323	1-566-822-21	JACK (LINE IN)			
J331	8-749-921-12	IC GP1F32T (OPTICAL DIGITAL OUT (CD))			
J332	1-566-822-21	JACK (LINE OUT)			
		< CONNECTOR >			
* KH307	1-568-135-21	HOLDER, CABLE 7P			
		< COIL >			
L111	1-412-503-11	INDUCTOR	22uH		
L131	1-412-503-11	INDUCTOR	22uH		

Ref. No.	Part No.	Description				Remark
L211	1-412-503-11	INDUCTOR	22uH			
L231	1-412-503-11	INDUCTOR	22uH			
L301	1-410-397-21	FERRITE BEAD INDUCTOR (D305L)				
L311	1-412-503-11	INDUCTOR	22uH			
L331	1-412-503-11	INDUCTOR	22uH			
		< TRANSISTOR >				
Q101	8-729-900-74	TRANSISTOR	DTC143TS			
Q104	8-729-900-74	TRANSISTOR	DTC143TS			
Q201	8-729-900-74	TRANSISTOR	DTC143TS			
Q204	8-729-900-74	TRANSISTOR	DTC143TS			
		< RESISTOR >				
R120	1-249-441-11	CARBON	100K	5%	1/4W	
R121	1-249-441-11	CARBON	100K	5%	1/4W	
R122	1-247-843-11	CARBON	3.3K	5%	1/4W	
R123	1-247-863-91	CARBON	22K	5%	1/4W	
R124	1-249-421-11	CARBON	2.2K	5%	1/4W	
R125	1-249-421-11	CARBON	2.2K	5%	1/4W	
R220	1-249-441-11	CARBON	100K	5%	1/4W	
R221	1-249-441-11	CARBON	100K	5%	1/4W	
R222	1-247-843-11	CARBON	3.3K	5%	1/4W	
R223	1-247-863-91	CARBON	22K	5%	1/4W	
R224	1-249-421-11	CARBON	2.2K	5%	1/4W	
R225	1-249-421-11	CARBON	2.2K	5%	1/4W	
R308	1-249-425-11	CARBON	4.7K	5%	1/4W	
R309	1-249-426-11	CARBON	5.6K	5%	1/4W	
R321	1-247-807-31	CARBON	100	5%	1/4W	
**********						
*	1-666-177-11	POWER AMP BOARD				
		**********				
		< CAPACITOR >				
C181	1-126-960-11	ELECT	1uF	20%	50V	
C182	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C184	1-137-399-11	FILM	0.1uF	5%	50V	
C185	1-137-399-11	FILM	0.1uF	5%	50V	
C281	1-126-960-11	ELECT	1uF	20%	50V	
C282	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C382	1-126-933-11	ELECT	100uF	20%	10V	
C385	1-128-551-11	ELECT	22uF	20%	25V	
C386	1-126-964-11	ELECT	10uF	20%	50V	
		< IC >				
IC309	8-759-333-16	IC	LA4705NA			
		< RESISTOR >				
R181	1-249-429-11	CARBON	10K	5%	1/4W	
R182	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R183	1-249-385-11	CARBON	2.2	5%	1/6W	F
⚠R184	1-249-385-11	CARBON	2.2	5%	1/6W	F
R281	1-249-429-11	CARBON	10K	5%	1/4W	
R282	1-249-431-11	CARBON	15K	5%	1/4W	
R381	1-249-425-11	CARBON	4.7K	5%	1/4W	
R383	1-249-417-11	CARBON	1K	5%	1/4W	
**********						

Ref. No.	Part No.	Description				Remark
*	1-666-176-11	POWER BOARD				
		**********				
	1-533-233-21	HOLDER, FUSE				
		< CAPACITOR >				
C501	1-101-005-00	CERAMIC	22000PF		50V	
C502	1-136-169-00	FILM	0.22uF	5%	50V	(D305: AUS/D305L)
C502	1-101-005-00	CERAMIC	22000PF		50V	(D305: US, CND, E)
C503	1-136-169-00	FILM	0.22uF	5%	50V	(D305: AUS/D305L)
C503	1-101-005-00	CERAMIC	22000PF		50V	(D305: US, CND, E)
C504	1-101-005-00	CERAMIC	22000PF		50V	
C505	1-136-169-00	FILM	0.22uF	5%	50V	(D305: AUS/D305L)
		< CONNECTOR >				
CNP501	1-564-321-00	PIN, CONNECTOR 2P				
		< DIODE >				
D501	8-719-902-17	DIODE	U15G			
D502	8-719-902-17	DIODE	U15G			
D503	8-719-902-17	DIODE	U15G			
D504	8-719-902-17	DIODE	U15G			
		< FUSE >				
⚠F501	1-532-505-31	FUSE (T5AL/250V) (D305: AUS/D305L)				
⚠F501	1-533-623-11	FUSE, GLASS CYLINDERICAL (10A/250V)				(D305: US, CND, E)
		< CONNECTOR >				
* KH505	1-573-287-11	HOLDER, CABLE 2P				
		< LINE FILTER >				
FL501	1-402-663-11	TRANSFORMER, LINE FILTER (LFT)				
		< TRANSFORMER >				
⚠T501	1-431-353-11	TRANSFORMER, POWER (D305: AUS/D305L)				
⚠T501	1-431-354-11	TRANSFORMER, POWER (D305: US, CND, E)				
**********						
*	1-662-742-11	SW BOARD				
		*********				
		< CAPACITOR >				
CN691	1-779-860-11	SOCKET, CONNECTOR 8P				
		< PHOTO REFLECTOR >				
PH691	1-801-455-11	PHOTO REFLECTOR				
		< RESISTOR >				
R691	1-247-827-11	CARBON	680	5%	1/4W	

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 neméro spécifié.

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S691	1-762-811-11	SWITCH, LEAF (HALF)			
S694	1-762-811-11	SWITCH, LEAF (REC-REV)			
S695	1-762-811-11	SWITCH, LEAF (REC-FWD)			
S696	1-762-810-11	SWITCH, LEAF (MODE)			
**********					
*	1-666-184-11	SW (A) BOARD			
		**********			
		< CAPACITOR >			
C902	1-162-282-31	CERAMIC	100PF	10%	50V
C903	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
CNP901	1-770-398-11	HOUSING, CONNECTOR (PC BOARD) 5P			
CNP902	1-770-396-11	HOUSING, CONNECTOR (PC BOARD) 3P			
		< IC >			
IC901	8-759-471-49	IC NJL57H400			
		< CONNECTOR >			
* KH903	1-573-287-11	HOLDER, CABLE 2P			
		< RESISTOR >			
R950	1-249-415-11	CARBON	680	5%	1/4W
R951	1-249-416-11	CARBON	820	5%	1/4W
R952	1-249-418-11	CARBON	1.2K	5%	1/4W
R953	1-249-420-11	CARBON	1.8K	5%	1/4W
R954	1-247-843-11	CARBON	3.3K	5%	1/4W
R955	1-249-427-11	CARBON	6.8K	5%	1/4W
R956	1-249-415-11	CARBON	680	5%	1/4W
R957	1-249-416-11	CARBON	820	5%	1/4W
R958	1-249-418-11	CARBON	1.2K	5%	1/4W
R959	1-249-420-11	CARBON	1.8K	5%	1/4W
R960	1-247-843-11	CARBON	3.3K	5%	1/4W
R961	1-249-427-11	CARBON	6.8K	5%	1/4W
R962	1-249-415-11	CARBON	680	5%	1/4W
R963	1-249-416-11	CARBON	820	5%	1/4W
R964	1-249-418-11	CARBON	1.2K	5%	1/4W
R965	1-249-420-11	CARBON	1.8K	5%	1/4W
R966	1-247-843-11	CARBON	3.3K	5%	1/4W
R967	1-249-427-11	CARBON	6.8K	5%	1/4W
		< SWITCH >			
S901	1-692-014-11	SWITCH, KEY BOARD (▶▶)			
S902	1-692-014-11	SWITCH, KEY BOARD (◀◀)			
S903	1-692-014-11	SWITCH, KEY BOARD (▷ (TAPE))			
S904	1-692-014-11	SWITCH, KEY BOARD (TAPE π)			
S905	1-692-014-11	SWITCH, KEY BOARD (◁ (TAPE))			
S906	1-692-014-11	SWITCH, KEY BOARD (●/▮▮)			
S907	1-692-014-11	SWITCH, KEY BOARD (DIR MODE)			
S908	1-692-014-11	SWITCH, KEY BOARD (π (CD))			
S909	1-692-014-11	SWITCH, KEY BOARD (CD ∏)			
S910	1-692-014-11	SWITCH, KEY BOARD (▷ (CD))			
S911	1-692-014-11	SWITCH, KEY BOARD (FUNCTION)			
S912	1-692-014-11	SWITCH, KEY BOARD (OPERATE)			
S913	1-692-014-11	SWITCH, KEY BOARD (DISPLAY/ENTER)			
S914	1-692-014-11	SWITCH, KEY BOARD (VOLUME +)			
S915	1-692-014-11	SWITCH, KEY BOARD (VOLUME –)			
S916	1-692-014-11	SWITCH, KEY BOARD (▶▶I,TUNE +)			
S917	1-692-014-11	SWITCH, KEY BOARD (I◀◀,TUNE –)			
S918	1-692-014-11	SWITCH, KEY BOARD (RADIO BAND)			
S919	1-692-014-11	SWITCH, KEY BOARD (PRESET +)			
S920	1-692-014-11	SWITCH, KEY BOARD (PRESET –)			
**********					
*	1-666-185-11	SW (B) BOARD			
		**********			
		< CONNECTOR >			
* KH904	1-573-287-11	HOLDER, CABLE 2P			
		< RESISTOR >			
R970	1-249-415-11	CARBON	680	5%	1/4W
R971	1-249-416-11	CARBON	820	5%	1/4W
		< SWITCH >			
S921	1-692-014-11	SWITCH, KEY BOARD (SOUND)			
S922	1-692-014-11	SWITCH, KEY BOARD (PGM SET AUTO PRESET)			
S923	1-692-014-11	SWITCH, KEY BOARD (PLAY MODE MONO/ST ISS)			
**********					
*	1-666-178-11	TERMINAL BOARD			
		**********			
		< CAPACITOR >			
C284	1-137-399-11	FILM	0.1uF	5%	50V
C285	1-137-399-11	FILM	0.1uF	5%	50V
C381	1-126-946-11	ELECT	6800uF	20%	25V
		< CONNECTOR >			
* CNP503	1-506-946-11	PIN, CONNECTOR 4P			
* CNP504	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
* CNP505	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< CONNECTOR >			
* KH510	1-565-385-11	HOLDER, CABLE 4P			
* KH512	1-573-287-11	HOLDER, CABLE 2P			
		< COIL >			
L501	1-410-397-21	FERRITE BEAD INDUCTOR (D305L)			
		< RESISTOR >			
⚠R283	1-249-385-11	CARBON	2.2	5%	1/6W F
⚠R284	1-249-385-11	CARBON	2.2	5%	1/6W F
⚠R501	1-217-469-00	FUSIBLE	1	5%	1W F (D305: US)
**********					
*	A-3306-626-A	TUNER BOARD, COMPLETE (D305L)			
*	A-3306-831-A	TUNER BOARD, COMPLETE (D305: AUS)			
*	A-3306-834-A	TUNER BOARD, COMPLETE (D305: US, CND, E)			
		**********			

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Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305)
C1	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C2	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305L)
C3	1-162-306-11	CERAMIC	0.01uF	20%	16V
C4	1-130-483-00	MYLAR	0.01uF	5%	50V (D305L)
C4	1-162-201-31	CERAMIC	12PF	5%	50V (D305)
C5	1-162-203-31	CERAMIC	15PF	5%	50V (D305)
C6	1-162-306-11	CERAMIC	0.01uF	20%	16V
C7	1-162-282-31	CERAMIC	100PF	10%	50V (D305L)
C7	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305)
C8	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C9	1-162-282-31	CERAMIC	100PF	10%	50V (D305)
C9	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C10	1-162-306-11	CERAMIC	0.01uF	20%	16V
C11	1-126-933-11	ELECT	100uF	20%	10V
C12	1-126-963-11	ELECT	4.7uF	20%	50V
C13	1-162-215-31	CERAMIC	47PF	5%	50V
C15	1-162-306-11	CERAMIC	0.01uF	20%	16V
C16	1-162-306-11	CERAMIC	0.01uF	20%	16V
C17	1-162-306-11	CERAMIC	0.01uF	20%	16V
C18	1-161-057-00	CERAMIC	0.033uF	10%	50V (D305L)
C18	1-162-842-11	CERAMIC	0.018uF	10%	16V (D305: AUS)
C18	1-162-843-11	CERAMIC	0.022uF	10%	16V (D305: US, CND, E)
C19	1-161-057-00	CERAMIC	0.033uF	10%	50V (D305L)
C19	1-162-842-11	CERAMIC	0.018uF	10%	16V (D305: AUS)
C19	1-162-843-11	CERAMIC	0.022uF	10%	16V (D305: US, CND, E)
C20	1-126-964-11	ELECT	10uF	20%	50V
C21	1-126-964-11	ELECT	10uF	20%	50V
C22	1-162-850-11	CERAMIC	0.082uF	10%	16V
C23	1-162-849-11	CERAMIC	0.068uF	10%	16V
C24	1-162-850-11	CERAMIC	0.082uF	10%	16V
C25	1-126-964-11	ELECT	10uF	20%	50V
C26	1-162-288-31	CERAMIC	330PF	10%	50V
C27	1-161-494-00	CERAMIC	0.022uF		25V (D305)
C29	1-162-286-21	CERAMIC	220PF	10%	50V (D305L)
C30	1-162-290-31	CERAMIC	470PF	10%	50V (D305L)
C31	1-126-964-11	ELECT	10uF	20%	50V
C32	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305L)
C32	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305)
C33	1-161-494-00	CERAMIC	0.022uF		25V (D305L)
C40	1-102-518-11	CERAMIC	33PF	5%	50V
C41	1-162-203-31	CERAMIC	15PF	5%	50V
C42	1-162-306-11	CERAMIC	0.01uF	20%	16V
C43	1-162-282-31	CERAMIC	100PF	10%	50V
C44	1-162-306-11	CERAMIC	0.01uF	20%	16V
C45	1-162-306-11	CERAMIC	0.01uF	20%	16V
C46	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C47	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C48	1-162-294-31	CERAMIC	0.001uF	10%	50V
C49	1-162-294-31	CERAMIC	0.001uF	10%	50V
C50	1-162-294-31	CERAMIC	0.001uF	10%	50V
C51	1-162-306-11	CERAMIC	0.01uF	20%	16V
C52	1-126-964-11	ELECT	10uF	20%	50V
C53	1-162-306-11	CERAMIC	0.01uF	20%	16V
C54	1-126-963-11	ELECT	4.7uF	20%	50V (D305)
C54	1-126-964-11	ELECT	10uF	20%	50V (D305L)
C55	1-126-961-11	ELECT	2.2uF	20%	50V (D305)
C55	1-136-177-00	FILM	1uF	5%	50V (D305L)
C56	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C57	1-161-020-11	CERAMIC	0.039uF	10%	16V (D305)
C58	1-162-849-11	CERAMIC	0.068uF	10%	16V (D305)
C60	1-161-772-11	CERAMIC	0.1uF	10%	25V (D305L)
C60	1-162-851-11	CERAMIC	0.1uF	10%	16V (D305)
C61	1-162-289-31	CERAMIC	390PF	10%	50V (D305)
C61	1-162-291-31	CERAMIC	560PF	10%	50V (D305L)
C62	1-162-203-31	CERAMIC	15PF	5%	50V (D305)
C62	1-162-207-31	CERAMIC	22PF	5%	50V (D305L)
C63	1-161-772-11	CERAMIC	0.1uF	10%	25V (D305L)
C63	1-162-851-11	CERAMIC	0.1uF	10%	16V (D305)
C64	1-162-306-11	CERAMIC	0.01uF	20%	16V
C65	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305)
C65	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)

TUNER

Ref. No.	Part No.	Description			Remark
C66	1-137-399-11	FILM	0.1uF	5%	50V (D305L)
C69	1-161-494-00	CERAMIC	0.022uF		25V (D305L)
C70	1-136-356-11	FILM	470PF	5%	63V (D305L)
C72	1-162-282-31	CERAMIC	100PF	10%	50V (D305L)
C73	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C74	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C75	1-162-281-31	CERAMIC	91PF	10%	50V (D305L)
C76	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C84	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C88	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C89	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305: AUS)
C90	1-162-282-31	CERAMIC	100PF	10%	50V (D305: US, CND, E)
C90	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305: AUS)
C91	1-162-282-31	CERAMIC	100PF	10%	50V
C92	1-162-282-31	CERAMIC	100PF	10%	50V (D305: AUS)
C93	1-162-282-31	CERAMIC	100PF	10%	50V (D305)
C93	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305L)
C94	1-162-282-31	CERAMIC	100PF	10%	50V (D305)
C95	1-162-282-31	CERAMIC	100PF	10%	50V (D305L)
C95	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305)
C96	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305L)
C96	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305)
C97	1-162-282-31	CERAMIC	100PF	10%	50V (D305: AUS)
C99	1-162-294-31	CERAMIC	0.001uF	10%	50V (D305L)
C99	1-162-306-11	CERAMIC	0.01uF	20%	16V (D305: AUS)
		< FILTER >			
CF1	1-767-355-11	FILTER, CERAMIC (D305)			
CF1	1-767-557-11	FILTER, CERAMIC (D305L)			
CF2	1-767-355-11	FILTER, CERAMIC (D305)			
CF2	1-767-557-11	FILTER, CERAMIC (D305L)			
CF3	1-767-355-11	FILTER, CERAMIC (D305)			
CF3	1-767-557-11	FILTER, CERAMIC (D305L)			
CF4	1-767-096-11	VIBRATOR, CERAMIC			

Ref. No.	Part No.	Description	Remark
		< ENCAPSULATED COMPONENT >	
CFT1	1-233-885-11	ENCAPSULATED COMPONENT (D305)	
CFT1	1-239-173-11	ENCAPSULATED COMPONENT (D305L)	
		< CONNECTOR >	
CNP1	1-778-310-11	PLUG, CONNECTOR 2P (AM)	
* CNP2	1-564-187-00	PIN, CONNECTOR (FM) (D305)	
CNP2	1-779-535-11	CONNECTOR, COAXIAL (EXT ANT) (D305L)	
CNP3	1-573-844-11	CONNECTOR, BOARD TO BOARD 12P	
		< TRIMMER >	
CT1	1-141-410-11	CAP, ADJ 10PF (D305)	
CT2	1-141-410-11	CAP, ADJ 10PF (D305)	
CT4	1-141-410-11	CAP, ADJ 10PF (D305L)	
CT5	1-141-439-21	CAP, ADJ (D305L)	
		< DIODE >	
D1	8-719-991-33	DIODE 1SS133T-77 (D305)	
D2	8-719-991-33	DIODE 1SS133T-77 (D305)	
D3	8-719-918-45	DIODE KV1310 (D305)	
D4	8-719-918-45	DIODE KV1310 (D305)	
D5	8-719-050-69	DIODE KV1520N (D305)	
D5	8-719-976-30	DIODE KV1560N (D305L)	
D90	8-719-991-33	DIODE 1SS133T-77 (D305L)	
D91	8-719-991-33	DIODE 1SS133T-77	
D92	8-719-991-33	DIODE 1SS133T-77	
D93	8-719-991-33	DIODE 1SS133T-77	
D94	8-719-991-33	DIODE 1SS133T-77	
D95	8-719-991-33	DIODE 1SS133T-77(D305L)	
		< FILTER >	
FL1	1-236-711-21	FILTER, BAND PASS (D305)	
		< IC >	
IC1	8-759-386-02	IC TA2008AN	
IC2	8-759-290-61	IC BU2615S (D305L)	
IC2	8-759-333-33	IC BU2614 (D305)	
		< COIL >	
L1	1-416-226-11	COIL, FM RF (D305)	
L2	1-416-225-11	COIL, FM OSC (D305)	
L3	1-416-248-11	COIL, MW RF (D305L)	
L3	1-416-251-11	COIL, MW ANT (D305)	
L4	1-416-247-11	COIL (OSC) (D305L)	
L4	1-416-250-11	COIL, AM OSC (D305)	
L5	1-416-249-11	COIL, LW RF (D305L)	
L6	1-412-514-11	INDUCTOR 220uH (D305L)	
L40	1-410-527-11	INDUCTOR 100uH (D305)	
L40	1-412-514-11	INDUCTOR 220uH (D305L)	
L90	1-410-526-11	INDUCTOR 10uH (D305: AUS)	
		< TRANSISTOR >	
Q1	8-729-905-50	TRANSISTOR DTC343TS (D305L)	
Q1	8-729-922-66	TRANSISTOR 2SC2410SN (D305)	
Q2	8-729-115-80	TRANSISTOR BA1A4P (D305)	
Q2	8-729-905-50	TRANSISTOR DTC343TS (D305L)	
Q3	8-729-115-80	TRANSISTOR BA1A4P (D305)	

Ref. No.	Part No.	Description			Remark
Q3	8-729-922-66	TRANSISTOR	2SC2410SN (D305L)		
Q4	8-729-115-80	TRANSISTOR	BA1A4P (D305)		
Q4	8-729-922-66	TRANSISTOR	2SC2410SN (D305L)		
Q5	8-729-115-80	TRANSISTOR	BA1A4P (D305)		
Q5	8-729-178-62	TRANSISTOR	2SC2786-L (D305L)		
Q6	8-729-119-32	TRANSISTOR	2SK193 (D305L)		
Q7	8-729-922-66	TRANSISTOR	2SC2410SN (D305L)		
Q8	8-729-142-39	TRANSISTOR	BN1A4Z-TP (D305)		
Q8	8-729-904-39	TRANSISTOR	DTC114TS (D305L)		
Q9	8-729-115-80	TRANSISTOR	BA1A4P (D305L)		
Q9	8-729-904-39	TRANSISTOR	DTC114TS (D305)		
Q10	8-729-115-80	TRANSISTOR	BA1A4P (D305L)		
Q11	8-729-115-80	TRANSISTOR	BA1A4P (D305L)		
Q11	8-729-194-57	TRANSISTOR	2SC945-P (D305)		
Q12	8-729-115-80	TRANSISTOR	BA1A4P (D305L)		
Q12	8-729-194-57	TRANSISTOR	2SC945-P (D305)		
Q13	8-729-012-83	TRANSISTOR	2SK679A (D305L)		
Q17	8-729-142-39	TRANSISTOR	BN1A4Z-TP (D305L)		
Q21	8-729-422-57	TRANSISTOR	UN4111 (D305L)		
Q22	8-729-422-57	TRANSISTOR	UN4111 (D305L)		
Q24	8-729-422-57	TRANSISTOR	UN4111 (D305L)		
		< RESISTOR >			
R1	1-247-887-00	CARBON	220K	5%	1/4W (D305)
R1	1-249-417-11	CARBON	1K	5%	1/4W (D305L)
R2	1-249-411-11	CARBON	330	5%	1/4W (D305L)
R2	1-249-421-11	CARBON	2.2K	5%	1/4W (D305)
R3	1-247-791-91	CARBON	22	5%	1/4W (D305L)
R3	1-249-441-11	CARBON	100K	5%	1/4W (D305)
R4	1-249-431-11	CARBON	15K	5%	1/4W (D305)
R10	1-249-403-11	CARBON	68	5%	1/4W
R11	1-249-425-11	CARBON	4.7K	5%	1/4W
R12	1-247-815-91	CARBON	220	5%	1/4W (D305)
R13	1-249-407-11	CARBON	150	5%	1/4W
R14	1-249-437-11	CARBON	47K	5%	1/4W
R15	1-249-393-11	CARBON	10	5%	1/4W
R16	1-247-807-31	CARBON	100	5%	1/4W (D305L)
R16	1-247-815-91	CARBON	220	5%	1/4W (D305)
R17	1-249-421-11	CARBON	2.2K	5%	1/4W
R18	1-249-393-11	CARBON	10	5%	1/4W
R19	1-247-863-91	CARBON	22K	5%	1/4W
R21	1-247-863-91	CARBON	22K	5%	1/4W (D305L)
R22	1-249-421-11	CARBON	2.2K	5%	1/4W (D305L)
R23	1-249-421-11	CARBON	2.2K	5%	1/4W
R24	1-249-411-11	CARBON	330	5%	1/4W (D305)
R25	1-249-425-11	CARBON	4.7K	5%	1/4W (D305L)
R25	1-249-429-11	CARBON	10K	5%	1/4W (D305)
R26	1-249-425-11	CARBON	4.7K	5%	1/4W (D305L)
R26	1-249-429-11	CARBON	10K	5%	1/4W (D305)
R27	1-249-421-11	CARBON	2.2K	5%	1/4W (D305)
R27	1-249-425-11	CARBON	4.7K	5%	1/4W (D305L)
R28	1-249-421-11	CARBON	2.2K	5%	1/4W (D305)
R28	1-249-425-11	CARBON	4.7K	5%	1/4W (D305L)
R29	1-249-421-11	CARBON	2.2K	5%	1/4W
R30	1-249-441-11	CARBON	100K	5%	1/4W
R40	1-249-429-11	CARBON	10K	5%	1/4W
R41	1-249-429-11	CARBON	10K	5%	1/4W
R42	1-249-429-11	CARBON	10K	5%	1/4W
R43	1-249-417-11	CARBON	1K	5%	1/4W (D305)
R43	1-249-429-11	CARBON	10K	5%	1/4W (D305L)
R44	1-249-417-11	CARBON	1K	5%	1/4W
R45	1-249-417-11	CARBON	1K	5%	1/4W
R46	1-249-417-11	CARBON	1K	5%	1/4W (D305L)
R47	1-249-417-11	CARBON	1K	5%	1/4W (D305L)
R49	1-249-412-11	CARBON	390	5%	1/4W
R50	1-249-415-11	CARBON	680	5%	1/4W
R51	1-249-417-11	CARBON	1K	5%	1/4W (D305L)
R51	1-249-429-11	CARBON	10K	5%	1/4W (D305)
R52	1-249-421-11	CARBON	2.2K	5%	1/4W (D305)
R52	1-249-427-11	CARBON	6.8K	5%	1/4W (D305L)
R53	1-247-863-91	CARBON	22K	5%	1/4W
R54	1-249-417-11	CARBON	1K	5%	1/4W (D305L)
R54	1-249-429-11	CARBON	10K	5%	1/4W (D305)
R55	1-249-421-11	CARBON	2.2K	5%	1/4W (D305)
R55	1-249-437-11	CARBON	47K	5%	1/4W (D305L)
R56	1-249-417-11	CARBON	1K	5%	1/4W (D305)
R56	1-249-437-11	CARBON	47K	5%	1/4W (D305L)
R57	1-249-437-11	CARBON	47K	5%	1/4W
R58	1-249-437-11	CARBON	47K	5%	1/4W (D305)
R59	1-247-843-11	CARBON	3.3K	5%	1/4W (D305L)
R59	1-249-437-11	CARBON	47K	5%	1/4W (D305)
R60	1-249-417-11	CARBON	1K	5%	1/4W

TUNER

Ref. No.	Part No.	Description			Remark
					(D305)
R60	1-249-429-11	CARBON	10K	5%	1/4W (D305L)
R61	1-249-425-11	CARBON	4.7K	5%	1/4W (D305L)
R62	1-249-425-11	CARBON	4.7K	5%	1/4W (D305L)
R63	1-249-441-11	CARBON	100K	5%	1/4W (D305L)
R64	1-247-887-00	CARBON	220K	5%	1/4W (D305L)
R64	1-249-441-11	CARBON	100K	5%	1/4W (D305)
R65	1-247-807-31	CARBON	100	5%	1/4W (D305)
R65	1-249-411-11	CARBON	330	5%	1/4W (D305L)
R66	1-249-413-11	CARBON	470	5%	1/4W (D305L)
R67	1-249-429-11	CARBON	10K	5%	1/4W (D305L)
R70	1-249-425-11	CARBON	4.7K	5%	1/4W (D305L)
R71	1-249-425-11	CARBON	4.7K	5%	1/4W (D305L)
R72	1-249-425-11	CARBON	4.7K	5%	1/4W (D305L)
R73	1-247-887-00	CARBON	220K	5%	1/4W (D305L)
R74	1-249-416-11	CARBON	820	5%	1/4W (D305L)
R76	1-249-441-11	CARBON	100K	5%	1/4W (D305L)
R90	1-249-429-11	CARBON	10K	5%	1/4W (D305: US, CND, E)
		< ENCAPSULATED COMPONENT >			
T1	1-233-306-31	ENCAPSULATED COMPONENT (D305L)			
		< TUNER UNIT >			
* TU1	1-693-378-11	TUNER UNIT (D305L)			
		< VIBRATOR >			
X1	1-760-130-11	VIBRATOR, CRYSTAL (75kHz)			
**********					
		MISCELLANEOUS			
		**********			
3	1-782-296-11	WIRE, PARALLEL (FFC) (27 CORE)			
102	1-782-294-11	WIRE, PARALLEL (FFC) (9 CORE)			
111	1-452-732-11	MAGNET			
120	1-769-069-11	CABLE, FFC 16P			
⚠151	8-848-376-11	OPTICAL PICK-UP KSS-213B/S-RP			
306	1-782-509-11	CORD, SPEAKER			
308	X-3374-496-1	CORD ASSY			
⚠310	1-575-651-11	CORD, POWER (D305L: AEP, IT, CET)			
⚠310	1-575-653-11	CORD, POWER (D305: E)			
⚠310	1-696-847-11	CORD, POWER (D305: AUS)			
⚠310	1-751-520-11	CORD, POWER (D305L: UK)			
⚠310	1-769-743-11	CORD, POWER (D305: US, CND)			

Ref. No.	Part No.	Description	Remark
352	1-782-509-11	CORD, SPEAKER	
HRPE101	1-500-480-11	HEAD, MAGNETIC (REC/PB/ERASE)	
M691	3-016-425-01	MOTOR ASSY (CARSTAN/REEL)	
M701	X-2625-770-1	CHASSIS ASSY (MB) (RP), MOTOR (SPINDLE)	
M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	
PM691	1-454-806-11	SOLENOID, PLUNGER	
S801	1-692-960-11	SWITCH, PUSH (1 KEY) (OPEN/CLOSE)	
SP101	1-505-607-11	SPEAKER (8CM) (L-CH)	
SP201	1-505-607-11	SPEAKER (8CM) (R-CH)	
⚠T501	1-431-353-11	TRANSFORMER, POWER (D305: AUS/D305L)	
⚠T501	1-431-354-11	TRANSFORMER, POWER (D305: US, CND, E)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-247-19	SCREW +KTP 3X10 TYPE2 NON-SLIT	
#3	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#4	7-685-136-19	SCREW +P 2.6X12 TYPE2 NON-SLIT	
#5	7-685-547-19	SCREW +BTP 3X10 TYPE2 N-S	
#6	7-685-851-04	SCREW +BVTT 2X4 (S)	
#7	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#8	7-621-255-15	SCREW +P 2X3	
#9	7-685-645-79	SCREW +P 3X6 TYPE2 NON-SLIT	
#10	7-685-158-19	SCREW +P 4X6 TYPE2 NON-SLIT	
#11	7-685-153-19	SCREW +P 3X30 TYPE2 NON-SLIT	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-501-594-11	ANTENNA (FM) (D305L)	
	1-501-843-11	ANTENNA, ROOP	
	1-558-271-11	CORD, CONNECTION	
	3-860-142-11	MANUAL, INSTRUCTION (ENGLISH, GERMAN)(D305L: AEP, UK)	
	3-860-142-21	MANUAL, INSTRUCTION (FRANCH, SPANISH) (D305L: AEP)	
	3-860-142-31	MANUAL, INSTRUCTION (DUTCH, SWEDISH, PORTUGUESE) (D305L: AEP)	
	3-860-142-41	MANUAL, INSTRUCTION (ITALIAN) (D305L: AEP)	
	3-860-142-51	MANUAL, INSTRUCTION (ENGLISH) (D305)	
	3-860-142-61	MANUAL, INSTRUCTION (FRENCH) (D305: CND)	
	3-860-142-71	MANUAL, INSTRUCTION (SPANISH) (D305: E)	
	3-860-142-81	MANUAL, INSTRUCTION (POLISH, CZECH, HUNGARIAN) (D305: CET)	
	8-917-598-90	REMOTE COMMANDER RMT-C305A SET (D305)	
	8-917-602-90	REMOCON, RMT-C305AD SET (D305L)	
	4-991-047-01	LID, BATTERY CASE (for RMT-C305)	

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 neméro spécifié.

9-923-212-11

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Personal A&V Products Company

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PMC-D305/D305L

SONY

SERVICE MANUAL

1998. 12

US Model
Canadian Model
E Model
Australian Model
PMC-D305
AEP Model
UK Model
PMC-D305L

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Paint color change

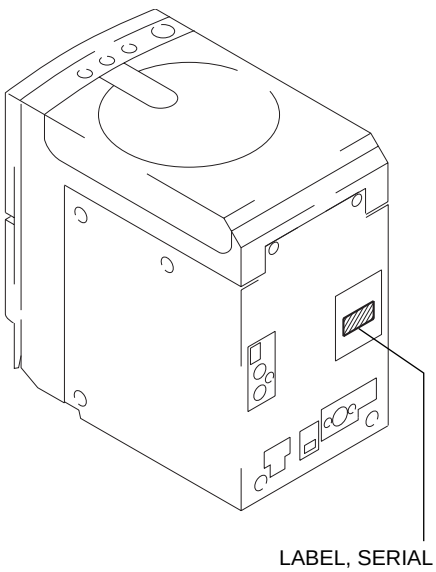
(SPM-98011)

The paint color of this set was changed in the midway of production.
With this color change, the following parts were changed.

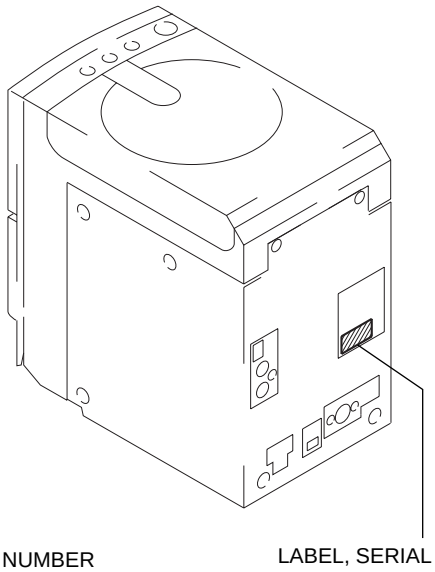
1. NEW/FORMER DISCRIMINATION

GENERAL SECTION
– Rear view –

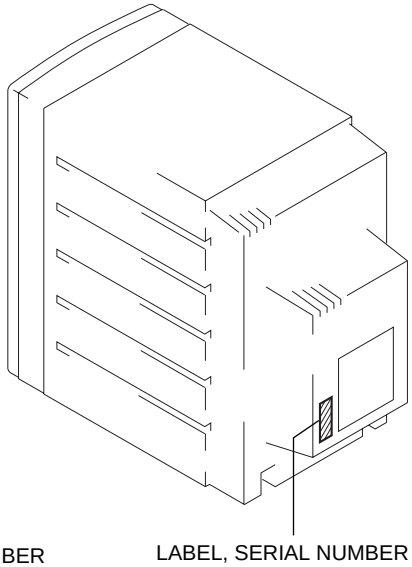
US Model



EXCEPT US Model



SPEAKER SECTION
– L-CH Rear view –



Model	Destination	Serial No.
PMC-D305	US	from 6135476
	E	from 6139027
PMC-D305L	AEP	from 6130226
	UK	from 6130226
	Italian	from 6191727
	East Euporean, Russian	from 6135476

2. DIFFERENCE PARTS LIST

Page	FORMER				NEW			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
77	52	X-3373-798-1	LID (CASSETTE) ASSY (D305L)		52	X-3376-183-1	LID (CASSETTE) ASSY (D305L)	
	53	X-3373-797-1	PANEL (FRONT) ASSY (D305L)		53	X-3376-182-1	PANEL (FRONT) ASSY (D305L)	
	53	X-3374-254-1	PANEL (FRONT) ASSY (D305)		53	X-3376-185-1	PANEL (FRONT) ASSY (D305)	
	54	3-014-091-01	BUTTON (MAIN)		54	3-014-091-11	BUTTON (MAIN)	
	56	3-014-092-01	BUTTON (UPPER)		56	3-014-092-11	BUTTON (UPPER)	
82	301	X-3374-211-1	FRONT SUB ASSY		301	X-3376-181-1	FRONT SUB ASSY	
83	351	X-3374-211-1	FRONT SUB ASSY		351	X-3376-181-1	FRONT SUB ASSY	

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PMC-D305/D305L

SONY

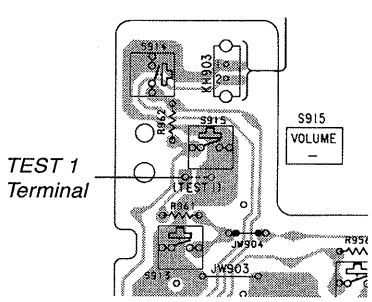
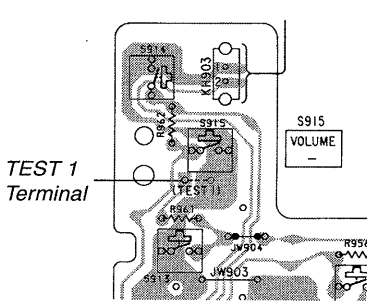
SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model
PMC-D305
AEP Model
UK Model
PMC-D305L

CORRECTION-1

Correct your service manual as shown below.

☛ : **Indicates corrected portion.**

Page	INCORRECT	CORRECT
30	**How to Put the Set into Test Mode** 1. Disconnect an AC plug cord. (Power is not applied to the set) 2. Solder across the TEST1 terminal. 3. Close the lid for CD. 4. Connect an AC plug cord. **[SW (A) BOARD] (Conductor Side)**  **How to Release the Test Mode** 1. Be sure to disconnect the AC plug cord and remove the solder bridge at the TEST1 terminal connected before in setting. 2. The set thus becomes available for normal operation.	**How to Put the Set into Test Mode** 1. Disconnect an AC plug cord. 2. Turn on the power while shorting the test point (TEST1). (Connect the AC plug cord) 3. Opening the shorted test point puts the set into Test Mode. **[SW (A) BOARD] (Conductor Side)**  **How to Release Test Mode** 1. Press the OPERATE button to put the set into the standby status. 2. Finally, disconnect and connect the AC plug cord.

(SPM-99048)

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Sony Corporation
Personal Audio Division Company

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