JVC

SERVICE MANUAL

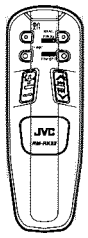
CD / CASSETTE RECEIVER

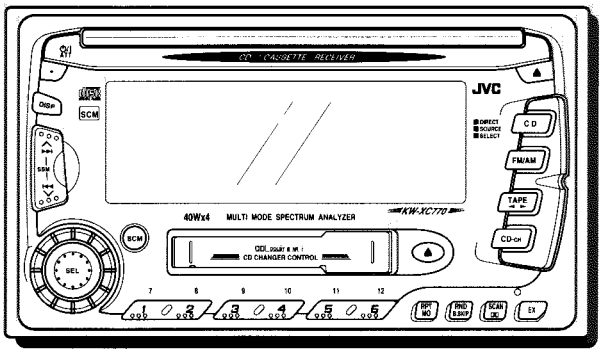
KW-XC770

Area Suffix

J ----Northern America

U ---------- Other Areas





COMPACT disc DIGITAL AUDIO

Contents

No.49527
Jan. 2000

Safety precaution

⚠ *CAUTION* **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

⚠ *CAUTION* **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

Instructions

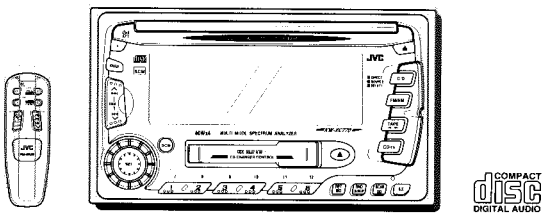
JVC

CD/CASSETTE RECEIVER **KW-XC770**

RECEPTOR DE CD-CASSETTE **KW-XC770**

RADIOCASSETTE/CD **KW-XC770**

ENGLISH ESPAÑOL FRANÇAIS



For installation and connections, refer to the separate manual.
Para la instalación y las conexiones, refiérase al manual separado.
Pour l'installation et les raccordements, se référer au manuel séparé.

Having TROUBLE with operation?
Please reset your unit
Refer to page of How to Reset
Still having trouble??
USA ONLY
Call 1-800-252-5722
http://www.jvcservice.com
We can help you!

JVC
VICTOR COMPANY OF JAPAN, LIMITED

INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

For customer Use:
Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

LVT0400-001A
[J]

EN, SP, FR

1199MNMMDWJEIN

ENGLISH

INFORMATION (For USA)
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT FOR LASER PRODUCTS

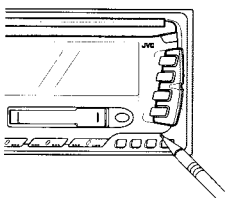
Precautions:
1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user-serviceable parts inside. Leave all servicing to qualified service personnel.
4. **CAUTION:** This CD player uses invisible laser radiation, however, is equipped with safety switches to prevent radiation emission when unloading CDs. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION on Volume Setting
CDs produce very little noise compared with other sources. If the volume level is adjusted for the tuner, for example, the speakers may be damaged by the sudden increase in the output level. Therefore, lower the volume before playing a CD and adjust it as required during playback.

To reset your unit

After installing the unit or when you have troubles with operations, reset the microcomputer built in this unit.
Press the reset button on the front panel using a ball-point pen or a similar tool.

- REMEMBER your preset adjustments such as preset channels or sound adjustments will also be erased from memory.



Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

ENGLISH

CONTENTS

CONTINUED TO THE NEXT PAGE

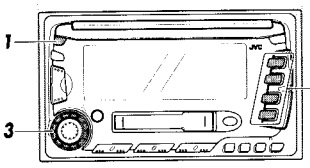
ENGLISH

BEFORE USE

** For safety....*
- *Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.*
- *Stop the car before performing any complicated operations.*

** Temperature inside the car....*
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

BASIC OPERATIONS



Note:
When you use this unit for the first time, set the built-in clock correctly, see page 24.

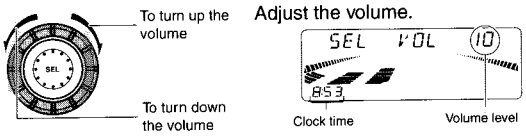
ENGLISH

1 Turn on the power.
"HELLO" appears on the display.

Note on One-Touch Operation:
When you select a source in step 2 below, the power automatically comes on. You do not have to press this button to turn on the power.

2 Select the source.
To operate the tuner, see pages 6 – 11.
To operate the CD player, see pages 12 – 14.
To operate the tape deck, see pages 15 – 18.
To operate the CD changer, see pages 29 – 31.
To operate an external device, see page 32.

3 Adjust the volume.



4 Adjust the sound as you want (see pages 19 – 21).
- If you need to change the spectrum analyzer pattern, see page 22.

To drop the volume in a moment

Press ⏻/I ATT briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.
To resume the previous volume level, press the button briefly again.

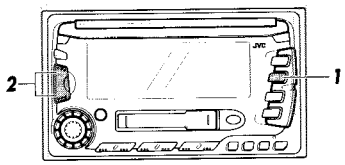
To turn off the power

Press ⏻/I ATT for more than 1 second. "SEE YOU" appears, then the unit turns off.
- If you turn off the ignition key without turning off this unit, the unit will automatically turn on when you turn on the ignition key next time. If the last selected source is ready for playback (ex. a CD or a tape is in the unit), playback starts automatically.

RADIO OPERATIONS

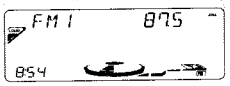
ENGLISH

Listening to the radio

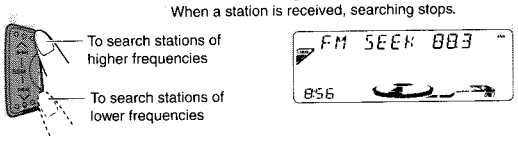


1 Select the band (FM1, FM2, FM3 or AM).
You can select any one of FM1, FM2, and FM3 to listen to an FM station.

→FM1→FM2→FM3→AM



2 Start searching a station.
When a station is received, searching stops.



To stop searching before a station is received, press the same button you have pressed for searching.

To tune in a particular frequency manually:

1 Press FM/AM repeatedly to select the band (FM or AM).
2 Press and hold ▶▶I ∧ or I◀◀ ∨ until "MANU" flashes on the display.
Now you can manually change the frequency while "MANU" is flashing.
3 Press ▶▶I ∧ or I◀◀ ∨ repeatedly until the frequency you want is reached.
- If you hold down the button, the frequency keeps changing until you release the button.

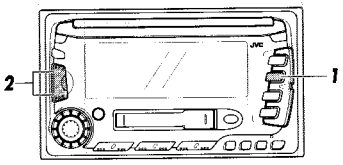
Storing stations in memory

ENGLISH

You can use one of the following methods to store broadcasting stations in memory.
- Automatic preset: SSM (Strong-station Sequential Memory)
- Manual preset
- Storing your favorite station into the EX button

Automatic preset: SSM

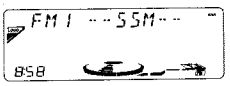
You can preset 6 local stations in each FM band (FM1, FM2, and FM3) and 6 local stations in AM band.



1 Select the band (FM1, FM2, FM3 or AM).

→FM1→FM2→FM3→AM

2 Press and hold both buttons for more than 2 seconds.



"SSM" appears, then disappears when automatic preset is over.

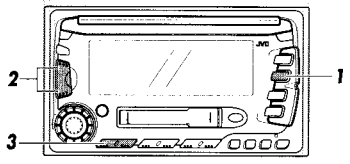
Local stations with the strongest signals are searched and stored automatically in the band you have selected (FM1, FM2, FM3, or AM). These stations are preset in the number buttons — No. 1 (lowest frequency) to No. 6 (highest frequency).
When automatic preset is over, the station stored in number button 1 will be automatically tuned in.

ENGLISH

Manual preset

You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) manually.

EXAMPLE: Storing an FM station of 88.3 MHz into the preset channel number 1 of the FM1 band



1

Select the FM1 band.

2

Tune into a station of 88.3 MHz.

See page 6 to tune into a station.

3

Press and hold the button (in this example, number 1 button) until channel number flashes (in this example "1ch").

"1ch" flashes for a few seconds, showing that the station has been preset.

4

Repeat the above procedure to store other stations into other preset channel numbers.

Notes:

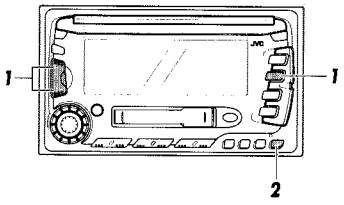
- *A previously preset station is erased when a new station is stored in the same preset channel number.*
- *Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.*

ENGLISH

Storing your favorite station into the EX (extra) button

You can preset an FM or AM station (such as your favorite station or traffic announcement station); and recall it by one touch operation even if the unit is turned off.

EXAMPLE: Storing an FM station of 88.3 MHz into the EX button

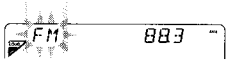


1

Follow the steps **1** and **2** on page 6.

2

Press and hold the button until "FM" flashes.



"FM" flashes on the display, showing that the station has been preset.

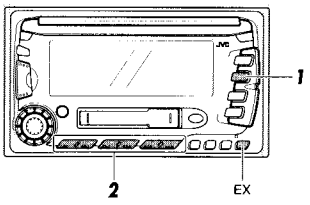
Notes:

- *A previously preset station is erased when a new station is stored.*
- *Preset station is erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the station again.*

ENGLISH

Tuning into a preset station

You can easily tune into a preset station.
Remember that you must store stations first. If you have not stored them yet, see pages 7 to 9.



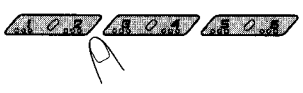
1

Select the band (FM1, FM2, FM3 or AM) you want.

FM1 → FM2 → FM3 → AM

2

Select the number (1 – 6) for the preset station you want.



To tune in the favorite station (EX)

The unit automatically turns on (if it has been off).
Your favorite station is tuned in, and the volume level is automatically set to the one when this function has been used before.

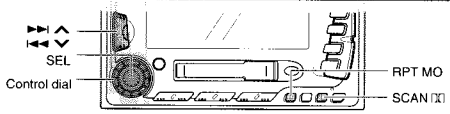
- *If you press the button again, the previous source will be played back again at the previous volume level.*

Note:

If you adjust the volume while this function is in use, it is automatically stored for this function.

ENGLISH

Other convenient tuner functions



Scanning broadcast stations

When you press SCAN (Scan/Dolby NR) while listening to the radio, station scanning starts. ("SCAN" appears on the display.) Each time a broadcast is tuned in, scanning stops for about 5 seconds (tuned frequency number flashes on the display), and you can check what program is now being broadcasted.

If you want to listen to that program, press the same button again to stop scanning.

Selecting FM reception sound

When an FM stereo broadcast is hard to receive:

Press RPT MO (Repeat/Monaural) while listening to an FM stereo broadcast. The sound you hear becomes monaural but reception will be improved.

Lights up when receiving an FM broadcast in stereo.

To restore the stereo effect, press the same button again.

Changing the AM/FM channel intervals

When this unit is shipped from the factory, the channel intervals are set to 10 kHz for AM and 200 kHz for FM (so that the unit can be used in North and South America).

When using this unit in an area other than North and South America, change the channel intervals by following the procedure below.

- AREA EU: Select this when used in an area other than North and South America.
- AREA US: Select this when used in North or South America.

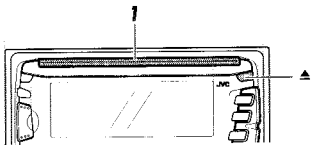
1 Press SEL for more than 2 seconds.
One of the PSM items appears on the display.
2 If "PSM AREA" does not appear, press ▶▶| ∧ or |◀◀ ∨ repeatedly until it appears.
3 Turn the control dial to the right.
"AREA EU" appears and the channel intervals are set to 9 kHz for AM and 50 kHz (for manual tuning) / 100 kHz (for searching) for FM.
4 Press SEL again to finish the setting.

To reset to the factory setting, follow the above step 1 and 2, then turn the control dial to the left in step 3 ("AREA US" appears on the display).

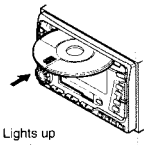
CD OPERATIONS

ENGLISH

Playing a CD



1

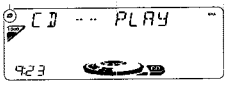


Insert a disc into the loading slot.

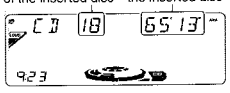
The unit turns on, draws a CD and starts playback automatically.

- Insert the CD with the printed face facing upside.

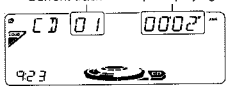
Lights up



Total track number of the inserted disc / Total playing time of the inserted disc



Current track / Elapsed playing time



Note on One-Touch Operation:
When a CD is already in the loading slot, pressing CD turns on the unit and starts playback automatically.

To stop play and eject the CD

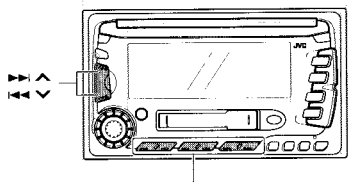
Press ⏏.

CD play stops and the CD automatically ejects from the loading slot ("CD EJECT" appears on the display). The source changes to the last selected source.

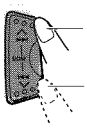
If you change the source, the CD play also stops (without ejecting the CD this time).

- *If the ejected disc is not removed for about 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (CD play will not start this time.)*
- *You can eject the CD even when the unit is turned off.*

Locating a track or a particular portion on a CD



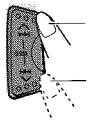
Fast-forwarding or reversing the track



Press and hold ⏭ ∧ while playing a CD, to fast-forward the track.

Press and hold ⏮ ∨ while playing a CD, to reverse the track.

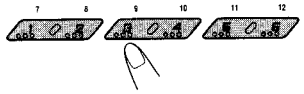
Going to the next tracks or the previous tracks



Press ⏭ ∧ briefly while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next tracks is located and played back.

Press ⏮ ∨ briefly while playing a CD, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

Going to a particular track directly

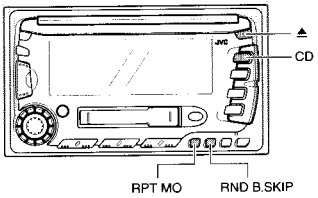


Press the number button corresponding to the track number to start its playback.

- To select a track number from 1 – 6:
  Press 1 (7) – 6 (12) briefly.
- To select a track number from 7 – 12:
  Press and hold 1 (7) – 6 (12) for more than 1 second.

ENGLISH

Other convenient CD functions



Selecting CD playback modes

■ To play back tracks at random (Random Play)

You can play back all tracks on the CD at random.

Each time you press RND B.SKIP (Random/Blank Skip) while playing a CD, CD random play mode turns on ("RANDOM ON") and off ("RANDOM OFF") alternatively.

When the random mode is turned on, the RND indicator lights up on the display and a track randomly selected starts playing.

■ To play back tracks repeatedly (Repeat Play)

You can play back the current track repeatedly.

Each time you press RPT MO (Repeat/Monaural) while playing a CD, CD repeat play mode turns on ("REPEAT ON") and off ("REPEAT OFF") alternatively.

When the repeat mode is turned on, the RPT indicator lights up on the display.

Prohibiting CD ejection

You can prohibit the CD ejection and can "lock" a CD in the loading slot.

Press and hold CD and ⏏ for more than 2 seconds. "CD EJECT" appears, then "EJECT" flashes on the display for about 5 seconds, and the CD is "locked."

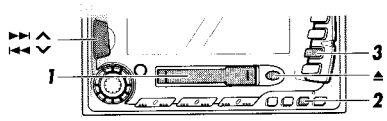
(at the same time)

To cancel the prohibition and "unlock" the CD, press and hold CD and ⏏ for more than 2 seconds again. "CD EJECT" appears, then "EJECT" flashes on the display for about 5 seconds, and the CD is "unlocked."

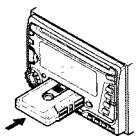
TAPE OPERATIONS

ENGLISH

Listening to a tape



1



Insert a cassette.

The unit turns on and tape play starts automatically.

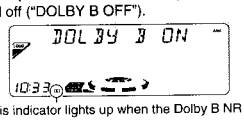
When one side of the tape reaches its end during play, the other side of the tape automatically starts playing. (Auto Reverse)

Note on One-Touch Operation:
When a cassette is already in the cassette compartment, pressing TAPE ◄ ► turns on the unit and starts tape play automatically.

2

Turn on or off the Dolby B NR* as needed.

Each time you press the button, the Dolby B NR turns on ("DOLBY B ON") and off ("DOLBY B OFF").



This indicator lights up when the Dolby B NR is turned on.

3

Select the tape direction.

Each time you press the button, the tape direction changes alternatively.

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

ENGLISH

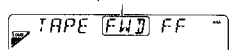
To stop play and eject the cassette

Press ▲.
Tape play stops and the cassette automatically ejects from the cassette compartment.
If you change the source, the tape play also stops (without ejecting the cassette this time).
• *You can also eject the cassette with the unit turned off.*

To fast-forward and rewind a tape

• Press ►►I ^ for more than 1 second to fast-forward the tape.

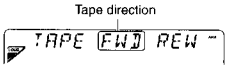
Tape direction



When the tape reaches its end, the tape is reversed and playback starts from the beginning of the other side.

• Press I◄◄ v for more than 1 second to rewind the tape.

Tape direction



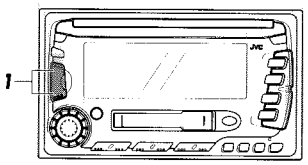
When the tape reaches its end, playback of the same side starts.

To stop fast-forward and rewind at any position on the tape, press TAPE ◄ ►.
Tape play starts from that position on the tape.

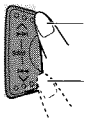
ENGLISH

Finding the beginning of a tune

Multi Music Scan allows you to automatically start playback from the beginning of a specified tune. You can specify up to 9 tunes ahead or before the current tune.



1 During playback



To locate a tune ahead of the current tune on the tape

To locate a tune before the current tune on the tape

Specify where (how many tunes ahead of or before the current tune) the tune you want is located.

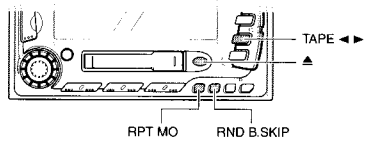
Each time you press the button, the number changes up to ±9.

When the beginning of the specified tune is located, playback starts automatically.

Notes:
• *While locating a specified tune:*
– *If the tape is rewound to its beginning, playback starts from the beginning of that side.*
– *If the tape is fast-forwarded to the end, it is reversed and played from the beginning of the other side.*
• *In the following cases, Multi Music Scan may not operate correctly.*
– *Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.*
– *Tapes with short non-recorded sections.*
– *Tapes with high level noise or humming between tunes.*
– *The Dolby NR setting does not match. For example, if the tape is recorded with the Dolby C NR.*

ENGLISH

Other convenient tape functions



Skipping blank portions on the tape

You can skip blank portions between the tunes. (Blank Skip)

Each time you press RND B.SKIP (Random/Blank Skip) while playing a tape, the blank skip function turns on and off alternatively.
When this function is on, the B.SKIP indicator lights up on the display and the unit skips blank portions of 15 seconds or more, fast-forwards to the next tune, then starts playing it.
• *When the tape reaches its end while fast-forwarding, the tape direction will be changed automatically.*

Playing the current tune repeatedly

You can play the current tune repeatedly. (Repeat Play)

Each time you press RPT MO (Repeat/Monaural) while playing a tape, repeat play turns on and off alternatively. When this function is on, the RPT indicator lights up on the display.
• *Repeat play will be canceled when you change the source or turn off the unit.*

Prohibiting tape ejection

You can prohibit the tape ejection and can "lock" a tape in the cassette compartment.

Press and hold TAPE ◄ ► and ▲ for more than 2 seconds. "TAPE EJECT" appears, then "EJECT" flashes on the display for about 5 seconds, and the tape is "locked."

(at the same time)

To cancel the prohibition and "unlock" the tape, press and hold TAPE ◄ ► and ▲ for more than 2 seconds again. "TAPE EJECT" appears, then "EJECT" flashes on the display for about 5 seconds, and the tape is "unlocked."

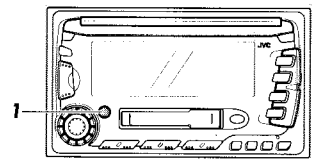
Note:
In the following cases, Blank Skip and Repeat Play may not operate correctly.
– *Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.*
– *Tapes with short non-recorded sections.*
– *Tapes with high level noise or humming between tunes.*
– *The Dolby NR setting does not match. For example, if the tape is recorded with the Dolby C NR.*

SOUND ADJUSTMENTS

ENGLISH

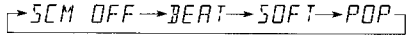
Selecting preset sound modes

You can select a preset sound adjustment suitable to the music genre.



1

Select the sound mode you want.
Each time you press the button, the sound mode changes as follows.



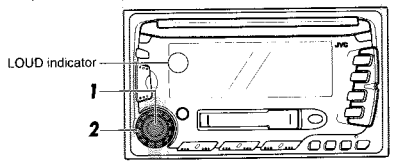
Indication	For:	Preset values		
		Bass	Treble	Loudness
SCM OFF	(Flat sound)	00	00	On
BEAT	Rock or disco music	+2	00	On
SOFT	Quiet background music	+1	–3	Off
POP	Light music	+4	+1	Off

Notes:
• *You can adjust the preset sound mode to your preference, and store it in memory.*
If you want to adjust and store your original sound mode, see "Storing your own sound adjustments" on page 21.
• *To adjust the bass and treble reinforcement levels or to turn on/off the loudness function temporarily, see "Adjusting the sound" on page 20.*

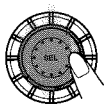
ENGLISH

Adjusting the sound

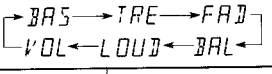
You can adjust the sound characteristics to your preference.



1



Select ("SEL") the item you want to adjust.



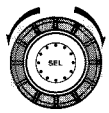
Indication	To do:	Range
BAS (Bass)	Adjust the bass	–6 (min.) — +6 (max.)
TRE (Treble)	Adjust the treble	–6 (min.) — +6 (max.)
FAD (Fader)*	Adjust the front and rear speaker balance	R6 (rear only) — F6 (front only)
BAL (Balance)	Adjust the left and right speaker balance	L6 (left only) — R6 (right only)
LOUD (Loudness)	Turn on or off the loudness function**	ON — OFF
VOL (Volume)	Adjust the volume	00 (min.) — 50 (max.)

Notes:

* *If you are using a two-speaker system, set the fader level to "00."*

** *The loudness function can boost low and high frequencies to produce a well-balanced sound at low volume levels. When the loudness function is "ON," the LOUD indicator changes from LOUD to LOUD on the display.*

2



Adjust the level.

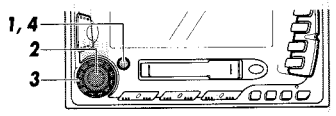
Note:

Normally the control dial works for volume adjustment. So you do not have to select "VOL" to adjust the volume level.

ENGLISH

Storing your own sound adjustments

You can adjust the sound modes (BEAT, SOFT, POP: see page 19) to your preference and store your own adjustments in memory.



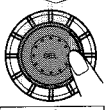
1

Call up the sound mode you want to adjust.

See page 19 for details.

Within 5 seconds

2



Select "BAS (bass)," "TRE (treble)" or "LOUD (loudness)."

Within 5 seconds

3

Adjust the selected item.

See page 20 for details.

Within 5 seconds

4

Press and hold SCM until "MEMO" flashes on the display.

Your setting is stored in memory.

5

Repeat the same procedure to store other settings.

To reset to the factory settings

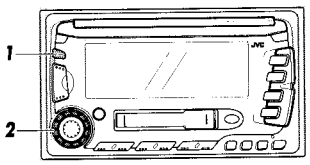
Repeat the same procedure and reassign the preset values listed in the table on page 19.

ENGLISH

SPECTRUM ANALYZER

Selecting spectrum analyzer patterns

You can select any one from 10 different spectrum analyzer patterns or a demonstration of all the mode.

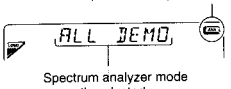


1

Select the spectrum analyzer selection mode.

Each time you press the button, the spectrum analyzer selection mode turns on and off.

ANA changes ANA to while the unit is in the spectrum analyzer selection mode.



Spectrum analyzer mode currently selected

2

Select the spectrum analyzer selection pattern you want.

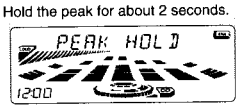
As you turn the control dial, the spectrum analyzer pattern changes as shown on the next page.

ENGLISH

Spectrum analyser patterns

1. **ALL DEMO** (default setting)
   Demonstrate all the spectrum analyzer patterns, each for 10 seconds.
2. **STANDARD**
   Standard spectrum analyzer.

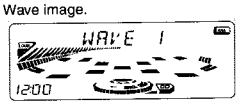
3. **PEAK HOLD**
   Hold the peak for about 2 seconds.



4. **RAIN 1**
   As if it is raining on the display.

5. **RAIN 2**
   As if it is raining on the display, but from the bottom to the top.
6. **SIDE WINDER**
   Spectrum analyzer is displayed horizontally.

7. **WAVE 1**
   Wave image.



8. **WAVE 2**
   Wave image with more illumination than WAVE 1.
9. **LEVEL 1**
   Level meter with little illumination.

10. **LEVEL 2**
    Level meter with more illumination than LEVEL 1.
11. **LEVEL 3**
    Level meter with more illumination than LEVEL 2.
12. **OFF**
    No spectrum analyzer is displayed.

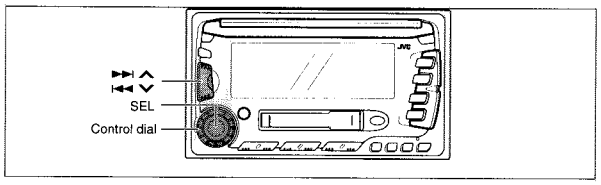
OTHER MAIN FUNCTIONS

ENGLISH

Changing general settings (PSM)

You can change the following settings for this unit by using the PSM (Preferred Setting Mode) control.

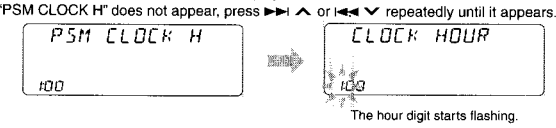
- PSM CLOCK (H/M): Adjusts the built-in clock (see below).
- PSM BEEP: Turns on or off the key-touch tone (see page 25).
- PSM DIMMER: Selects the dimmer mode (see page 25).
- PSM AREA: Selects the area you use this unit — when using this unit in an area other than North or South America (see page 11).
- PSM LINE IN: Selects the external component to use (see page 26).
- PSM DEMO: Turn on or off the display demonstration (see page 26).



Setting the clock

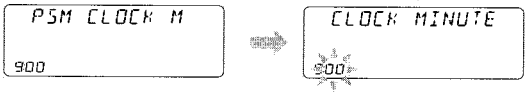
After installation, set the built-in clock correctly.

1 Press SEL for more than 2 seconds.
One of the PSM items appears on the display.
2 If "PSM CLOCK H" does not appear, press ▶▶| ∧ or |◀◀ ∨ repeatedly until it appears.



The hour digit starts flashing.

3 Turn the control dial to adjust the hour.
4 Press ▶▶| ∧ or |◀◀ ∨ until "PSM CLOCK M" appears on the display.



The minute digit starts flashing.

5 Turn the control dial to adjust the minute.
6 Press SEL again to finish the setting.

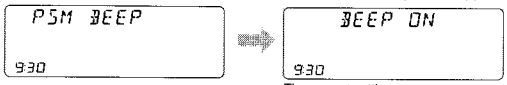
ENGLISH

Turning on or off the key-touch tone

When shipped from the factory, the key-touch tone function is on so that you can hear a "beep" each time you press a button. If you want to turn off this function, follow the procedure below.

- BEEP ON: Activates the key-touch tone.
- BEEP OFF: Cancels the key-touch tone.

1 Press SEL for more than 2 seconds.
One of the PSM items appears on the display.
2 If "PSM BEEP" does not appear, press ▶▶| ∧ or |◀◀ ∨ repeatedly until it appears.



The current setting appears.

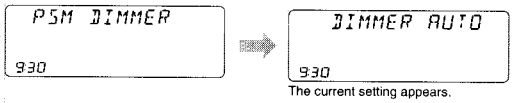
3 Turn the control dial to select the setting you want appears.
4 Press SEL again to finish the setting.

Selecting the dimmer mode

When shipped from the factory, Auto Dimmer function has been activated.
With this function in use, the display automatically dims when you turn on the car head lights.
If you want to cancel this function, follow the procedure below.

- AUTO: Activates Auto Dimmer
- ON: Activates the Dimmer.
- OFF: Cancels Auto Dimmer

1 Press SEL for more than 2 seconds.
One of the PSM items appears on the display.
2 If "PSM DIMMER" does not appear, press ▶▶| ∧ or |◀◀ ∨ repeatedly until it appears.



The current setting appears.

3 Turn the control dial to select the setting you want appears.
4 Press SEL again to finish the setting.

ENGLISH

Selecting the external component to use

You can connect the external component to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied).
To use the external component as the playback source through this unit, you need to select which component — CD changer or external component — to use. When shipped from the factory, CD changer is selected as the external component.
LINE IN ON: To use the external component other than CD changer
LINE IN OFF: To use the CD changer

1 Press SEL for more than 2 seconds.
One of the PSM items appears on the display.
2 If "PSM LINE IN" does not appear, press ▶▶| ∧ or |◀◀ ∨ repeatedly until it appears.

The current setting appears.

3 Turn the control dial to select either "LINE IN ON" (external component) or "LINE IN OFF" (CD changer).
4 Press SEL again to finish the setting.

Note:

- For connecting the Line Input Adaptor KS-U57 and the external component, refer to the Installation/Connection Manual (separate volume).

Turning on or off the display demonstration

When shipped from the factory, this function is set to on.
With this function turned on, the unit automatically starts the following display demonstration if no signal comes in for about 3 minutes except in the following case.

- When you turn on the unit for the first time after installation or after pressing the reset button, it starts if no signal comes in for about 10 seconds.

JVC ←→ CD CASSETTE

If you want to turn off the display demonstration, follow the procedure below.

1 Press SEL for more than 2 seconds.
One of the PSM items appears on the display.
2 If "PSM DEMO" does not appear, press ▶▶| ∧ or |◀◀ ∨ repeatedly until it appears.

The current setting appears.

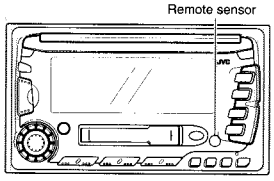
3 Turn the control dial to the left to turn off the function (or turn it to the right to turn on the function again).
4 Press SEL again to finish the setting.

REMOTE OPERATIONS

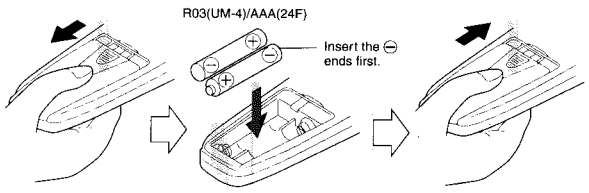
ENGLISH

Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.
- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).



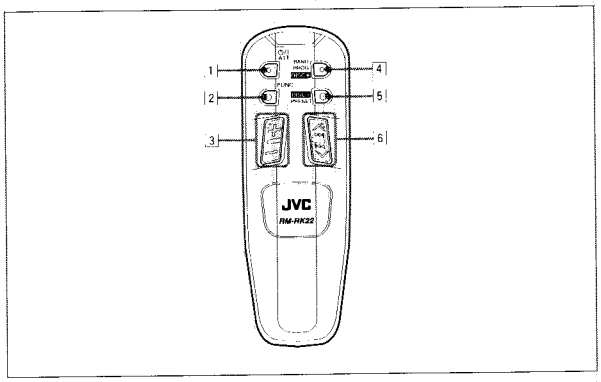
Installing the batteries



When the controllable range or effectiveness of the remote controller decreases, replace the batteries — R03(UM-4)/AAA(24F).

ENGLISH

Using the remote controller



1 Functions the same as the ⏻/I ATT button on the main unit.

2 Selects the source.
Each time you press FUNC (function), the source changes.

3 Functions the same as the control dial on the main unit.
Note: *This button does not function for the preferred setting mode (PSM) adjustment.*

4 • Changes the band while listening to the radio.
• Changes the tape direction while listening to a tape.
• Selects disc numbers in the increasing order, and starts playing while listening to the CD changer.

5 • Selects disc numbers in the decreasing order, and starts playing while listening to the CD changer.
• Select preset numbers in the increasing order while listening to the radio.

6 • Searches stations while listening to the radio.
• Fast forwards or reverses the track if pressed and held while listening to a CD.
• Skips to the beginning of the next tracks or goes back to the beginning of the current (or previous tracks) if pressed briefly while listening to a CD.
• Fast-forward or rewind a tape and find a beginning of a tune (MMS) while listening to a tape.

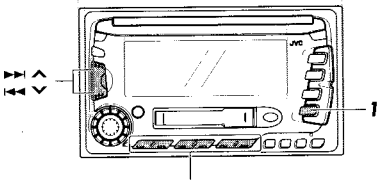
CD CHANGER OPERATIONS

ENGLISH

We recommend that you use one of the CH-X series with your KW-XC770.
If you have another CD automatic changer, consult your JVC car audio dealer for connections.
- *For example, if your CD automatic changer is one of the KD-MK series, you need a cord (KS-U15K) for connecting it to this unit.*

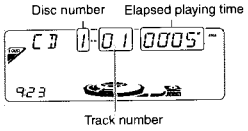
Before operating your CD automatic changer:
- Refer also to the Instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If "RESET 1 - RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection, connect the connecting cord(s) firmly if necessary, then press the reset button of the CD changer.

Playing CDs



1

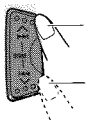
Select the CD automatic changer.
Play back starts from the first track of the first disc.
All tracks of all discs are played back.



Note on One-Touch Operation:
When you press CD-CH, the power automatically comes on. You do not have to press ⏻/I ATT *to turn on the power.*

ENGLISH

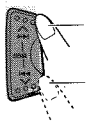
To fast-forward or reverse the track



Press and hold ▶▶I ^ while playing a CD, to fast-forward the track.

Press and hold I◀◀ v while playing a CD, to reverse the track.

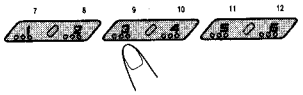
To go to the next tracks or the previous tracks



Press ▶▶I ^ briefly while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next tracks is located and played back.

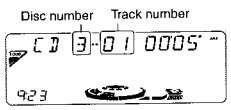
Press I◀◀ v briefly while playing a CD, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

To go to a particular disc directly



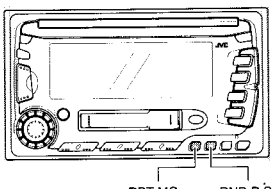
Press the number button corresponding to the disc number to start its playback (while CD changer is playing).
- To select a disc number from 1 – 6:
  Press 1 (7) – 6 (12) briefly.
- To select a disc number from 7 – 12:
  Press and hold 1 (7) – 6 (12) for more than 1 second.

Ex. When disc number 3 is selected.



ENGLISH

Selecting CD playback modes



To play back tracks at random (Random Play)

Each time you press RND B.SKIP (Random/Blank Skip) while playing a CD, CD random play mode changes as follows:

RANDOM 1 ON → RANDOM 2 ON → RANDOM OFF →

Mode	RND indicator	Plays at random
RANDOM 1 ON	Lights	All tracks of the current disc, then the tracks of the next disc, and so on.
RANDOM 2 ON	Flashes	All tracks of all discs inserted in the magazine.
RANDOM OFF	Goes off	Canceled.

To play back tracks repeatedly (Repeat Play)

Each time you press RPT MO (Repeat/Monaural) while playing a CD, CD repeat play mode changes as follows:

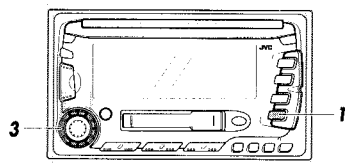
REPEAT 1 ON → REPEAT 2 ON → REPEAT OFF →

Mode	RPT indicator	Plays repeatedly
REPEAT 1 ON	Lights	The current track (or specified track).
REPEAT 2 ON	Flashes	All tracks of the current disc (or specified disc).
REPEAT OFF	Goes off	Canceled.

ENGLISH

EXTERNAL COMPONENT OPERATIONS

You can connect the external component to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied).

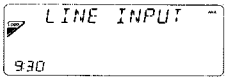


Preparations:

- *For connecting the Line Input Adaptor KS-U57 and the external component, refer to the Installation/ Connection Manual (separate volume).*
- ***Before operating the external component using the following procedure, select the external input correctly. (See "Selecting the external component to use" on page 26.)***

1

Select the external component.



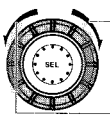
- If "LINE INPUT" does not appear on the display, see page 26 and select the external input ("PSM LINE IN").

Note on One-Touch Operation:
When you press CD-CH, the power automatically comes on. You do not have to press ⏻/I ATT *to turn on the power.*

2

Turn on the connected component and start playing the source.

3



To turn up the volume

To turn down the volume

Adjust the volume.

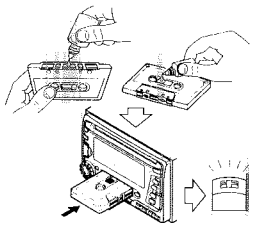
MAINTENANCE

ENGLISH

Handling cassettes

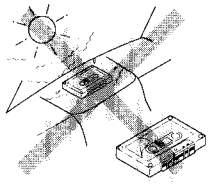
The cassette deck built in this unit requires very little attention, but you will be able to extend the life of the cassette deck if you follow the instructions below.

To clean the heads



- Clean the heads after every 10 hours of use using a wet-type head cleaning tape (available at an audio store).
  When the head becomes dirty, you may realize the following symptoms:
  – Sound quality is reduced.
  – Sound level decreases.
  – Sound drops out.
- Do not play dirty or dusty tapes.
- Do not touch the highly-polished head with any metallic or magnetic tools.

To keep the tape clean



- Always store the tapes to their storage cases after use.
- Do not store tapes in the following places:
  – Subject to direct sunlight
  – With high humidity
  – At extremely hot temperatures

CAUTIONS:

- *Do not play the tapes with peeling labels; otherwise, they can damage the unit.*
- *Tighten tapes to remove slack since loose tape may become entangled with the mechanism.*
- *Do not leave a cassette in the cassette compartment after use, as the tape may become slack.*

The function below is also provided to ensure the longer life of the cassette deck.

Ignition key-off release

- When you turn off the ignition key with a cassette in the compartment, the unit automatically releases the tape from its head.

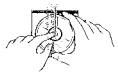
ENGLISH

Handling CDs

The CD player built in this unit has been designed only to play back the CDs bearing the DIGITAL AUDIO mark. Other discs cannot be played back.

How to handle CDs

Center holder



When removing a CD from its case, press down the center holder of the case and lift the CD out, holding it by the edges.

- Always hold the CD by the edges. Do not touch its recording surface.
- When storing a CD into its case, gently insert the CD around the center holder (with the printed surface facing up).
- Make sure to store CDs into the cases after use.

To keep CDs clean

A dirty CD may not play correctly. If a CD does becomes dirty, wipe it with a soft cloth in a straight line from center to edge.

To play new CDs

New CDs may have some rough spots around the inner and outer edges. If such a CD is used, this unit may reject the CD.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the CD and leave the unit turned on for a few hours until the moisture evaporates.

CAUTIONS:

- *Do not insert 8 cm (3 3/16") CDs (single CDs) into the loading slot. (Such CDs cannot be ejected.)*
- *Do not insert any CD of unusual shape — like a heart or flower; otherwise, it will malfunction.*
- *Do not expose CDs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.*
- *Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean CDs.*

When playing a CD-R (Recordable)

You can play back your original CD-Rs on this unit.

- Before playing back CD-Rs, read their instructions or cautions carefully.
- Some CD-Rs recorded on CD recorders may not be played back on this unit because of their disc characteristics, and of the following reasons:
  – Discs are dirty or scratched.
  – Moisture condensation occurs on the lens inside the unit.
  – The pickup lens inside the unit is dirty.
- Use only "finalized" CD-Rs.
- CD-RWs (Rewritable) cannot be played back on this unit.
- Do not use the CD-Rs with stickers or sticking labels on the surface. They may cause malfunctions.

TROUBLESHOOTING

ENGLISH

What appears to be trouble is not always serious. Check the following points before calling a service center.

Symptoms	Causes	Remedies
• CD cannot be played back.	CD is inserted upside down.	Insert the CD correctly.
• CD sound is sometimes interrupted.	You are driving on rough roads.	Stop CD play while driving on rough roads.
	CD is scratched.	Change the CD.
	Connections are incorrect.	Check the cords and connections.
• "NO DISC" appears on the display.	No CD is in the loading slot. (or in the magazine).	Insert CD.
	CD is inserted incorrectly.	Insert it correctly.
• A cassette tape cannot be inserted.	You have tried to insert a cassette in the wrong way.	Insert the cassette with the exposed tape facing right.
• Cassette tapes become hot.	This is not a malfunction.	———
• Tape sound is at very low level and sound quality is degraded.	The tape head is dirty.	Clean it with a head cleaning tape.
• Sound is sometimes interrupted.	Connections are not good.	Check the cords and connections.
• Sound cannot be heard from the speakers.	The volume control is turned to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
• SSM automatic preset does not work.	Signals are too weak.	Store stations manually.
• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
• "NO MAGAZINE" appears on the display.	No magazine is in the CD changer.	Insert the magazine.

CONTINUED TO THE NEXT PAGE

ENGLISH

Symptoms	Causes	Remedies
• "RESET 8" appears on the display.	This unit is not connected to a CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
• "RESET 1-RESET 7" appears on the display.	———	Press the reset button of the CD changer.
• CD can neither be played back nor ejected.	The CD player may function incorrectly.	While holding ⏏ for the CD player, press ⏻/I ATT for more than 2 seconds. Be careful not to drop CD when it is ejected.
• This unit does not work at all. • The CD changer does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the front panel (See page 2.)

About mistracking:
Mistracking may result from driving on extremely rough roads. This does not damage the unit and the CD, but will be annoying. We recommend that you stop CD play while driving on such rough roads.

SPECIFICATIONS

ENGLISH

AUDIO AMPLIFIER SECTION

Maximum Power Output:
Front: 40 W per channel
Rear: 40 W per channel
Continuous Power Output (RMS):
Front: 16 W per channel into 4 Ω, 40 Hz to 20,000 Hz at no more than 0.8% total harmonic distortion.
Rear: 16 W per channel into 4 Ω, 40 Hz to 20,000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance: 4 Ω (4 to 8 Ω allowance)
Tone Control Range:
Bass: ±10 dB at 100 Hz
Treble: ±10 dB at 10 kHz
Frequency Response: 40 Hz to 20,000 Hz
Signal-to-Noise Ratio: 70 dB
Line-Out Level/Impedance:
2.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ

TUNER SECTION

Frequency Range:
FM: 87.5 MHz to 107.9 MHz
(with channel interval set to 200 kHz)
87.5 MHz to 108.0 MHz
(with channel interval set to 50 kHz)
AM: 530 kHz to 1,710 kHz
(with channel interval set to 10 kHz)
531 kHz to 1,602 kHz
(with channel interval set to 9 kHz)

[FM Tuner]
Usable Sensitivity: 11.3 dBf (1.0 μV/75 Ω)
50 dB Quieting Sensitivity:
16.3 dBf (1.8 μV/75 Ω)
Alternate Channel Selectivity (400 kHz):
65 dB
Frequency Response: 40 Hz to 15,000 Hz
Stereo Separation: 30 dB
Capture Ratio: 1.5 dB

[AM Tuner]
Sensitivity: 20 μV
Selectivity: 35 dB

CD PLAYER SECTION

Type: Compact disc player
Signal Detection System: Non-contact optical pickup (semiconductor laser)
Number of channels: 2 channels (stereo)
Frequency Response: 5 Hz to 20,000 Hz
Dynamic Range: 96 dB
Signal-to-Noise Ratio: 98 dB
Wow and Flutter: Less than measurable limit

CASSETTE DECK SECTION

Wow and Flutter: 0.11% (WRMS)
Fast-Wind Time: 100 sec. (C-60)
Frequency Response: 50 Hz to 16,000 Hz
Signal-to-Noise Ratio:
Dolby B NR ON: 64 dB
Dolby B NR OFF: 56 dB
Stereo Separation: 40 dB

GENERAL

Power Requirement:
Operating Voltage: DC 14.4 V (11 V to 16 V allowance)
Grounding System: Negative ground
Allowabe Working Temperature:
0°C to +40°C (32°F to 104°F)
Dimensions (W x H x D):
Installation Size:
178 mm x 100 mm x 150 mm
(7-1/16" x 3-15/16" x 5-15/16")
Front Panel Size:
170 mm x 92 mm x 15 mm
(6-3/4" x 3-5/8" x 5/8")
Mass: 2.2 kg (4.9 lbs) (excluding accessories)

Design and specifications subject to change without notice.

If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.

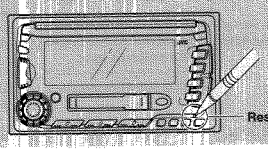
JVC

IMPORTANT

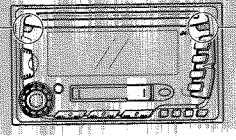
Notice the following information will help you solve your problems.
Keep this IMPORTANT sheet together with the INSTRUCTIONS book.

- **After installing the unit.**
  → Follow the procedure [A] described below.
- **If the unit does not operate.**
  → Follow the procedure [A] described below.
- **If a CD is not ejected from the loading slot.**
  → Follow the procedure [B] described below. (If the procedure [B] does not work, try the procedure [A].)
- **If a CD is not recognized ("NO DISC" appears on the display) even though there is a CD in the loading slot.**
  → Follow the procedure [B] described below. (If the procedure [B] does not work, try the procedure [A].)

[A] To reset the microcomputer
Press the reset button on the front panel using a ball-point pen or a similar tool. This will reset the built-in microcomputer.
NOTE: Your preset adjustments — such as preset channels or sound adjustments — will also be erased.



[B] To eject a CD by force
Press and hold both the POWER / ATT (⏻/I/ATT) and ⏏ buttons at the same time for several seconds until the "CD EJECT" appears on the display.

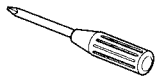


LVT0430-001A

KW-XC770

Installation/Connection Manual
Manual de instalación/conexión
Manuel d'installation/raccordement

LVT0401-001A
[J]



1199MNMMDWJEIN
EN, SP, FR

ENGLISH

- This unit is designed to operate on 12 volts DC, NEGATIVE ground electrical systems.

INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. In this case consult the manual included with the installation kit (option).
In some case, depending of the type and the model of your car, it is not possible to install the unit into the center console.
If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

Before installing the unit

- To prevent short circuits, it is recommended to disconnect the battery's negative terminal and make all electrical connections before installing the unit.
- For reason of security, do not install the unit in a place where it may disturb your driving or where there is not enough ventilation space around the unit.
- When the installation position has been determined, confirm that the cords are sufficiently long.
- When mounting the unit, be sure to use the screws provided, as instructed. If other screws are used, there is a possibility that parts could become loose or damaged.
- If you are not sure how to install this unit correctly, consult a JVC car audio dealer or have it installed by a qualified technician.
- When tightening screws or bolts be careful not to pinch any connection cord.

Caution:
To install the mounting brackets to the unit, use only the supplied screws (M5 x 6 mm).
If you use any screw longer than 6 mm, the unit can be damaged.

After installing the unit

Check if all the brake lamps, lights, flasher, wiper, etc. work correctly.

ESPAÑOL

- Esta unidad está diseñada para funcionar con 12 voltios de CC, con sistemas eléctricos de masa NEGATIVA.

INSTALACION (MONTAJE EN EL TABLERO DE INSTRUMENTOS)

La siguiente ilustración muestra una instalación típica. Sin embargo usted deberá efectuar los ajustes correspondientes a su automóvil. En este caso, consulte el manual suministrado con el kit de instalación (opción).
En algunos casos, y dependiendo del tipo y modelo de su automóvil, es posible que no se pueda instalar esta unidad en la consola central.
Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

Antes de instalar la unidad

- Para evitar cortocircuitos, recomendamos desconectar el terminal negativo de la batería y realizar todas las conexiones eléctricas antes de instalar la unidad.
- Para su seguridad, no instale la unidad en un sitio donde constituya un obstáculo para la conducción o donde no haya una ventilación suficiente a su alrededor.
- Después de decidir la posición de instalación, confirme que los cables sean suficientemente largos.
- Para instalar la unidad, asegúrese de utilizar los tornillos provistos y de seguir las instrucciones. El uso de otros tornillos podría hacer que las piezas se aflojen o dañen.
- En caso de dudas sobre cómo instalar correctamente la unidad, consulte con su concesionario JVC de equipos de audio para automóviles o solicite la instalación a un técnico cualificado.
- Cuando apriete pernos o tornillos, asegúrese de no que no quede ningún cable de conexión atrapado.

Precaución:
Para instalar los soportes de montaje en la unidad, utilice solamente los tornillos suministrados (M5 x 6 mm).
Si utiliza un tornillo de más de 6 mm de largo, se podrá dañar la unidad.

Después de instalar la unidad

Confirme el funcionamiento correcto de todas las lámparas de frenos, luces, intermitentes, limpiaparabrisas, etc.

FRANÇAIS

- *Cet appareil est conçu pour fonctionner sur des sources de courant continu de 12 volts à masse NEGATIVE.*

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

L'illustration suivante est un exemple d'installation typique. Cependant, vous devez faire les ajustements correspondant à votre voiture particulière. Dans ce cas, consultez le manuel fourni avec le kit d'installation (en option).
Dans certains cas, selon le modèle de votre voiture, il peut ne pas être possible d'installer l'appareil dans la console centrale.
Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

Avant d'installer l'appareil

- *Pour éviter les courts-circuits, nous recommandons que vous déconnectez la borne négative de la batterie et de réaliser toutes les connexions électriques avant d'installer d'appareil.*
- *Pour votre sécurité, n'installez pas l'appareil dans un endroit où il peut gêner votre conduite ou dans un endroit où la ventilation autour de l'appareil est insuffisante.*
- *Quand l'emplacement de l'installation à été décidé, vérifiez que fils sont suffisamment longs.*
- *Lors du montage de l'appareil, assurez-vous d'utiliser les vis fournies comme indiqué. Si d'autres vis sont utilisées, certaines parties de l'appareil peuvent être endommagées ou mal fixées.*
- *Si vous n'êtes pas sûr sur la façon d'installer l'appareil correctement, consultez un revendeur d'autoradio JVC ou faites-le installer par un technicien qualifié.*
- *Lors du serrage des vis et des boulons, faites attention de ne pas pincer un cordon de connexion.*

Attention:
Pour installer les supports de montage sur l'appareil, utilisez uniquement les vis fournies (M5 x 6 mm).
Si vous utilisez des vis plus longues que 6 mm, l'appareil risque d'être endommagé.

Après installer l'appareil

Vérifiez que les feux d'arrêt, les feux, les clignotants, les essuie-glace, etc. fonctionnement correctement.

1 Remove the audio system originally installed.
Note: Be sure to keep all the screws and parts removed from your car. They are to be used in the future.
2 Install the mounting brackets, removed from the car, to this unit.
3 Connect the wires (see the diagrams on the reverse side).
4 Fix this unit to the car using the screws removed in step 1.

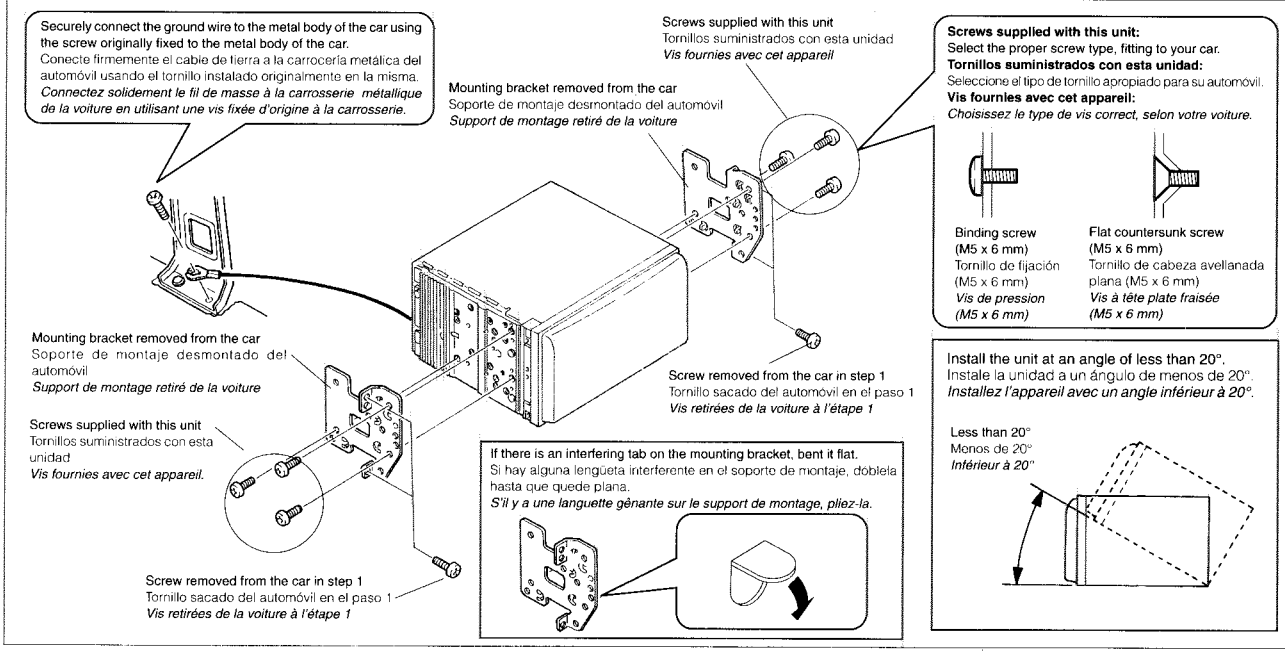
The following example shown is for installation in a Toyota. For more details, consult your JVC car audio dealer.

1 Desmonte el sistema de audio instalado originalmente.
Nota: Guarde todos los tornillos y piezas removidos de su automóvil, pues deberá utilizarlos posteriormente.
2 Instale los soportes de montaje removidos de su automóvil, en esta unidad.
3 Conecte los cables (consulte los diagramas del reverso).
4 Fije esta unidad al automóvil usando los tornillos removidos en el paso 1.

El ejemplo indicado a continuación es para la instalación en un Toyota. Para mayor información, consulte con su concesionario JVC de equipos de audio para automóviles.

1 *Retirez le système audio installé à l'origine.*
Remarque: *Conservez toutes les vis et les pièces retirées de votre voiture. Elles pourront être réutilisées dans le futur.*
2 *Installez les supports de montage, retirés de la voiture, sur cet appareil.*
3 *Connectez les fils (référez-vous aux diagrammes au dos de cette feuille).*
4 *Fixez cet appareil à la voiture en utilisant les vis retirées à l'étape 1.*

L'exemple suivant représente l'installation dans une voiture Toyota. Pour plus renseignements, consultez votre revendeur autoradio JVC.



When installing the unit in a Nissan car.
Cuando instale la unidad en un automóvil Nissan.
Lors de l'installation de l'appareil dans une voiture Nissan.

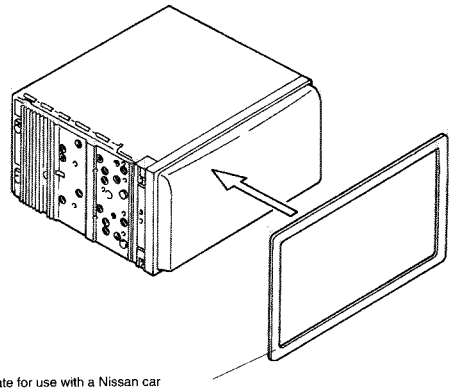
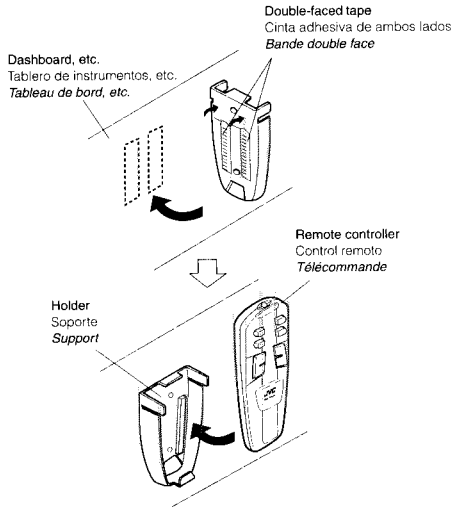


Plate for use with a Nissan car
Placa para usar con un automóvil Nissan
Plaque utilisée pour les voitures Nissan

Fix the supplied plate as illustrated.
Fije la placa suministrada de la manera indicada en la ilustración.
Fixez la plaque fournie comme montré sur l'illustration.

Installation : Remote Controller
Instalación : Control remoto
Installation : Télécommande



- Before attaching the double-faced tape, wipe and clean the place where you plan to attach it.
- Antes de adherir la cinta de ambos lados, limpie el sitio de instalación con un paño.
- *Avant d'attacher la bande double face, essuyez et nettoyez l'emplacement où vous projettez de l'attacher.*

Parts list for installation and connection
The following parts are provided with this unit.
After checking them, please set them correctly.

Lista de piezas para instalación y conexión
Con esta unidad se suministran las siguientes piezas.
Después de inspeccionarlas, colóquelas correctamente.

Liste des pièces pour l'installation et raccordement
Les pièces suivantes sont fournies avec cet appareil.
Après vérification, veuillez les placer correctement.

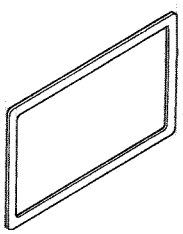
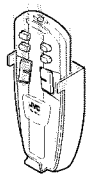


Plate for use with a Nissan car
Placa para usar con un automóvil Nissan
Plaque utilisée pour les voitures Nissan

R03(UM-4)/AAA(24F)

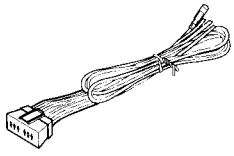
Batteries
Pilas
Piles



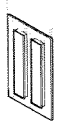
Remote controller and holder
Control remoto y soporte
Télécommande et support

Flat countersunk screws (M5 x 6 mm)
Tornillo de cabeza avellanada plana (M5 x 6 mm)
Vis à tête plate fraisée (M5 x 6 mm)

Binding screws (M5 x 6 mm)
Tornillo de fijación (M5 x 6 mm)
Vis de pression (M5 x 6 mm)



Power cord
Cordón de alimentación
Cordon d'alimentation



Double-faced tape
Cinta adhesiva de ambos lados
Bande double face

TROUBLESHOOTING

- **The fuse blows.**
  * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
  * Is the yellow lead connected?
- **No sound from the speakers.**
  * Is the speaker output lead short-circuited?
- **Sound is distorted.**
  * Is the speaker output lead grounded?
  * Are the "–" terminals of L and R speakers grounded in common?
- **Unit becomes hot.**
  * Is the speaker output lead grounded?
  * Are the "–" terminals of L and R speakers grounded in common?

LOCALIZACION DE AVERIAS

- **El fusible se quema.**
  * ¿Están los conductores rojo y negro correctamente conectados?
- **No es posible conectar la alimentación.**
  * ¿Está el cable amarillo conectado?
- **No sale sonido de los altavoces.**
  * ¿Está el cable de salida del altavoz cortocircuitado?
- **El sonido presenta distorsión.**
  * ¿Está el cable de salida del altavoz conectado a masa?
  * ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
- **La unidad se calienta.**
  * ¿Está el cable de salida del altavoz conectado a masa?
  * ¿Están los terminales "–" de los altavoces L y R conectados a

EN CAS DE DIFFICULTÉS

- **Le fusible saute.**
  * *Les fils rouge et noir sont-ils racordés correctement?*
- **L'appareil ne peut pas être mise sous tension.**
  * *Le fil jaune est-elle raccordée?*
- **Pas de son des haut-parleurs.**
  * *Le fil de sortie de haut-parleur est-il court-circuité?*
- **Le son est déformé.**
  * *Le fil de sortie de haut-parleur est-il à la masse?*
  * *Les bornes "–" des haut-parleurs gauche et droit sont-elles mises ensemble à la masse?*
- **L'appareil devient chaud.**
  * *Le fil de sortie de haut-parleur est-il à la masse?*
  * *Les bornes "–" des haut-parleurs gauche et droit sont-elles mises ensemble à la masse?*

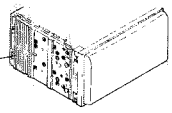
ENGLISH

ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. If you are not sure how to install this unit correctly, have it installed by a qualified technician.

Note:
This unit is designed to operate on **12 volts DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- If noise is a problem...
  This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's **rear ground terminal** (see connection diagram below) to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC car audio dealer.
- Maximum input of the speakers should be more than 40 watts at the rear and 40 watts at the front, with an impedance of **4 to 8 ohms**.
- **Be sure to ground this unit to the car's chassis.**
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink
Sumidero térmico
Dissipateur de chaleur

ESPAÑOL

CONEXIONES ELECTRICAS

Para evitar cortocircuitos, recomendamos que desconecte el terminal negativo de la batería y que efectúe todas las conexiones eléctricas antes de instalar la unidad. Si usted no está seguro de cómo instalar correctamente la unidad, hágala instalar por un técnico cualificado.

Nota:
Esta unidad está diseñada para funcionar con **12 voltios de CC, con sistemas eléctricos de masa NEGATIVA**. Si su vehículo no posee este sistema, será necesario un inversor de tensión, que puede ser adquirido en los concesionarios de JVC de equipos de audio para automóviles.

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente consulte con su concesionario de JVC de equipos de audio para automóviles.
- Si el ruido fuese un problema...
  Esta unidad tiene un filtro de ruido en el circuito de alimentación. Sin embargo, en algunos vehículos, pueden producirse chasquidos u otros ruidos indeseados. En tal caso conecte el **terminal de tierra posterior** (ver diagrama de conexión abajo) del receptor al chasis del automóvil, utilizando cordones más gruesos y cortos tales como alambre de cobre trenzado o de grueso calibre. Si el ruido persiste, consulte a su concesionario de JVC de equipos de audio para automóvil.
- La entrada máxima de los altavoces traseros debe ser mayor de 40 vatios y la de los delanteros de 40 vatios, con una impedancia de **4 a 8 ohmios**.
- **Asegúrese de conectar esta unidad a tierra en el chasis del automóvil.**
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.

FRANÇAIS

RACCORDEMENTS ELECTRIQUES

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil. Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.

Remarque:
Cet appareil est conçu pour fonctionner sur des sources de courant continu de **12 volts à masse NEGATIVE**. *Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.*

- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Si le bruit est un problème...*
  Cet appareil incorpore un filtre de bruit dans le circuit d'alimentation. Cependant, avec certains véhicules, quelques claquements ou autres bruits non désirés risquent de se produire. Si cela arrive, raccorder la **borne de masse arrière** *de l'appareil au châssis de la voiture (voir le schéma de raccordement ci-dessous) en utilisant des cordons les plus gros et les plus courts possibles telle qu'une barre de cuivre ou une tresse. Si le bruit persiste, consulter votre revendeur d'autoradios JVC.*
- *La puissance admissible des haut-parleurs doit être supérieure à 40 watts à l'arrière et à 40 watts l'avant, avec une impédance de* **4 à 8 ohms**.
- **S'assurer de raccorder la mise à la masse de cet appareil au châssis de la voiture.**
- *Le radiateur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*

A Typical Connections / Conexiones típicas / Raccordements typiques

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.

1 Connect the colored leads of the power cord to the car battery, speakers and automatic antenna (if any) in the following sequence.
- ① Black: ground
- ② Yellow: to car battery (constant 12V)
- ③ Red: to an accessory terminal
- ④ Others: to speakers
- ⑤ Blue with white stripe: to other equipment
  : also used when the automatic power antenna requires power more than 200 mA.
- ⑥ Orange with white stripe: to illumination or small lamp terminal

2 Connect the antenna cord.

3 Finally connect the wiring harness to the unit.

Antes de la conexión: Verifique atentamente el conexionado del vehículo para no cometer errores al conectar esta unidad. Una conexión incorrecta podría producir daños graves en la unidad.

1 Conecte los conductores de color del cable de alimentación a la batería del automóvil, altavoces y antena automática (si la hubiere) en la secuencia siguiente.
- ① Negro: a tierra
- ② Amarillo: a la batería del automóvil (12V constantes)
- ③ Rojo: a un terminal de accesorio
- ④ Otros: a los altavoces
- ⑤ Azul con rayas blancas: a otro equipo
  : también se utiliza cuando la antena motriz automática requiere una energía de más de 200 mA.
- ⑥ Naranja con rayas blancas: a iluminación o terminal de lámpara pequeña

2 Conecte el cable de antena.

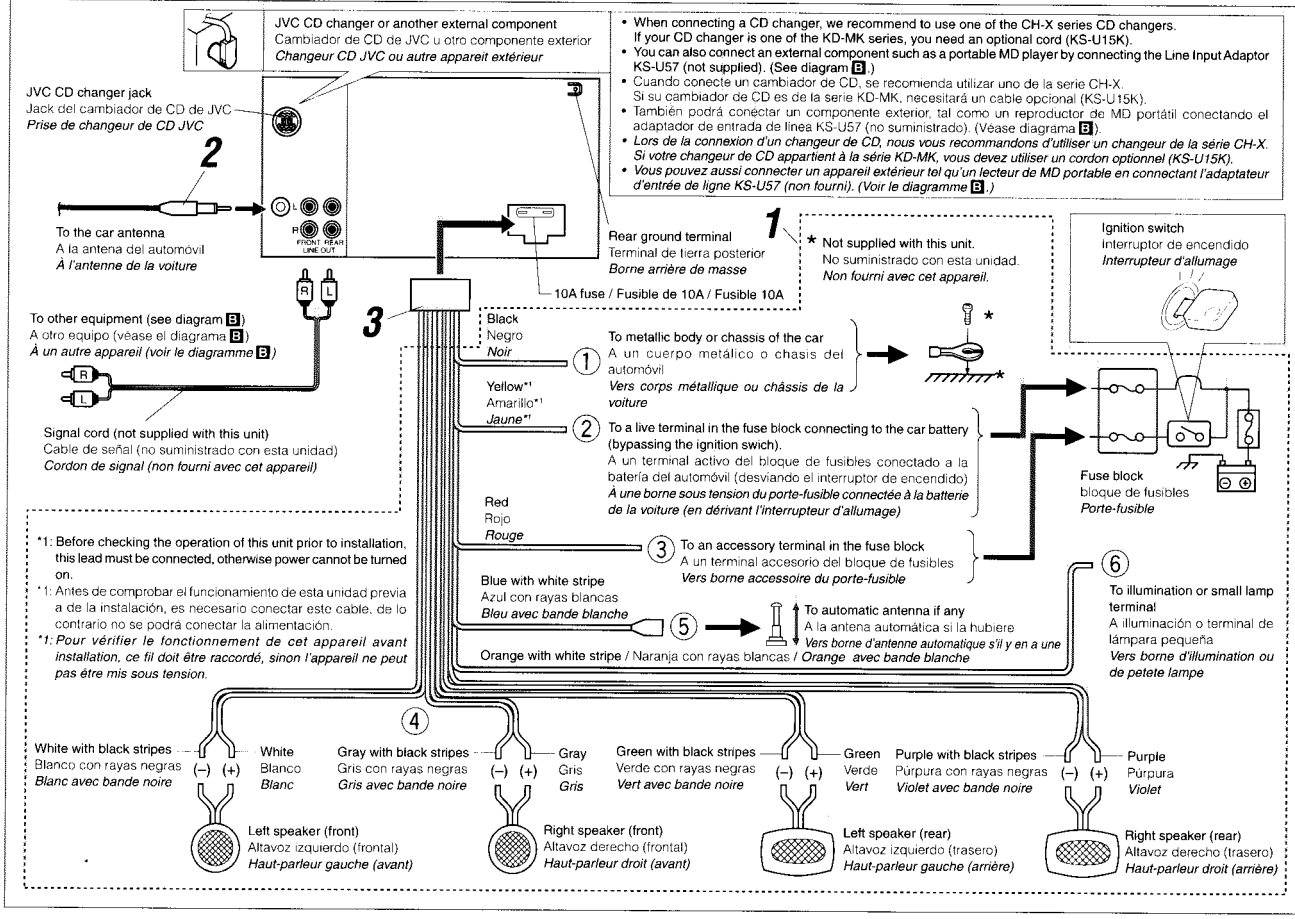
3 Por último, conecte a la unidad el cableado preformado.

Avant de commencer la connexion: *vérifiez attentivement le câblage du véhicule pour ne pas connecter incorrectement cet appareil. Une connexion incorrecte peut endommager sérieusement l'appareil.*

1 *Connectez les fils de couleur du cordon d'alimentation à la batterie de la voiture, aux enceintes et à l'antenne automatique (s'il y en a une) dans l'ordre suivant.*
- ① *Noir: a la masse*
- ② *Jaune: a la batterie de la voiture (12V constant)*
- ③ *Rouge: à la prise accessoire*
- ④ *Autres fils: aux enceintes*
- ⑤ *Bleu avec bande blanche: à un autre appareil*
  : utilisé aussi quand l'antenne électrique automatique nécessite un courant supérieur à 200 mA.
- ⑥ *Orange avec de bande blanche: vers borne d'illumination ou de petete lampe*

2 *Connectez le cordon d'antenne.*

3 *Finalement, connectez le faisceau de fils à l'appareil.*



PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- Connect the black lead (ground), yellow lead (to car battery, constant 12V), and red lead (to an accessory terminal) correctly.
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.
  - **If the speaker wiring in your car is as illustrated in Fig. 1 and Fig. 2 below,** DO NOT connect the unit using that original speaker wiring. If you do, the unit will be seriously damaged. Redo the speaker wiring so that you can connect the unit to the speakers as illustrated in Fig. 3.
  - **If the speaker wiring in your car is as illustrated in Fig. 3,** you can connect the unit using the original speaker wiring in your car.
  - If you are not sure of the speaker wiring of your car, consult your car dealer.

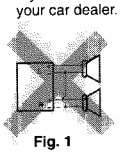


Fig. 1

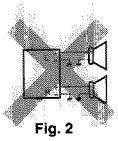


Fig. 2

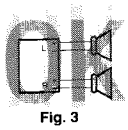


Fig. 3

PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces:

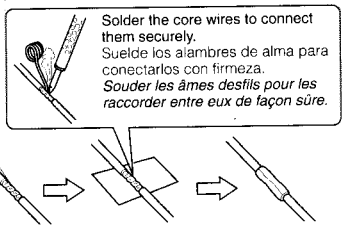
- **NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.**
- Conecte correctamente el conductor negro (a tierra), el conductor amarillo (a la batería del automóvil, 12V constantes), y el conductor rojo (a un terminal de accesorio).
- ANTES de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.
  - **Si el conexionado de altavoz de su automóvil es como se indica en las Figs. 1 y 2 de abajo,** NO conecte la unidad utilizando ese conexionado de altavoz original. Si lo hace, se producirán daños graves en la unidad. Vuelva a efectuar el conexionado de altavoz de manera que pueda conectar la unidad a los altavoces de la manera indicada en la Fig.3.
  - **Si el conexionado de altavoz de su automóvil es como se indica en la Fig. 3,** podrá conectar la unidad utilizando el conexionado de altavoz original de su automóvil.
  - Si tiene dudas sobre el conexionado de altavoz de su automóvil, consulte con su concesionario.

PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie de la voiture; sinon, l'appareil serait sérieusement endommagé.**
- *Connectez correctement le fil noir (à la masse), le fil jaune (à la batterie de la voiture, 12V constant) et le fil rouge (à la prise accessoire).*
- *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*
  - **Si le câblage des enceintes de votre volture est réalisé comme montré sur la Fig. 1 ou Fig. 2 ci-dessous,** *NE CONNECTEZ PAS l'appareil en utilisant ce câblage original d'enceintes. Si vous le faites, l'appareil sera sérieusement endommagé. Recommencez le câblage des enceintes de façon que vous puissiez connecter l'appareil aux enceintes comme montré sur la Fig. 3.*
  - **Si le câblage des enceintes de votre voiture est comme montré sur la Fig. 3,** *vous pouvez connecter l'appareil en utilisant ce câblage original d'enceintes pour votre voiture.*
  - *Si vous n'êtes pas sûrs du câblage d'enceintes de votre voiture, consulter le concessionnaire de votre voiture.*

Connecting the leads / Conexión de los conductores / Raccordement des fils

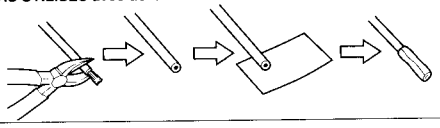
Twist the core wires when connecting.
Retuerza los alambres de alma para conectarlos.
Torsader les âmes des fils en les raccordant.



Solder the core wires to connect them securely.
Suelde los alambres de alma para conectarlos con firmeza.
Souder les âmes desfils pour les raccorder entre eux de façon sûre.

CAUTION / PRECAUCION / PRECAUTION:

- **To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.**
- **Para evitar cortocircuitos, cubra los cables NO UTILIZADOS con cinta aislante.**
- **Pour éviter les court-circuits, couvrir les bornes des fils qui NE SONT PAS UTILISÉS avec de la bande isolante.**



B Connections Adding Other Equipment / Conexiones para añadir otros equipos / Raccordement pour ajouter d'autres appareils

You can connect an amplifier and other equipment to upgrade your car stereo system.

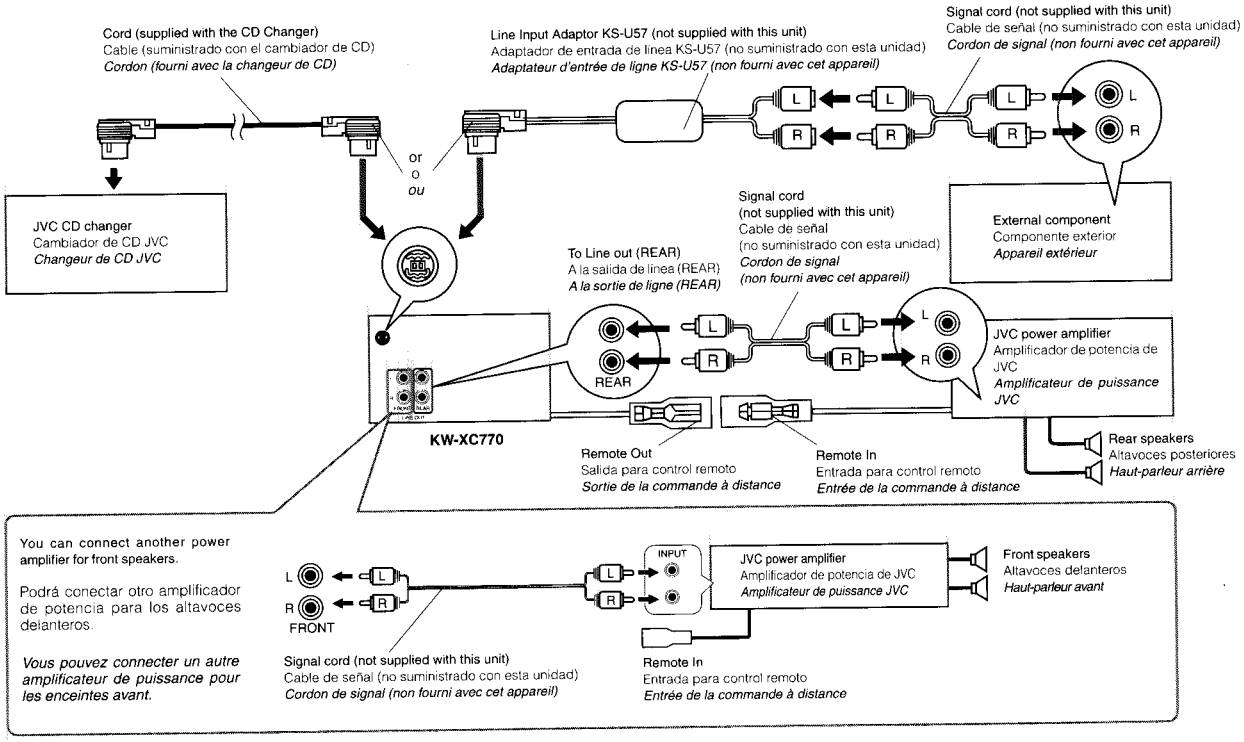
- For connections, refer also to the instructions supplied for other components.
- Connect the remote lead (blue with white stripes) to the remote lead of the other equipment so that it can be controlled through this unit.
- For amplifier only:
  - Connect this unit's line-out terminals to the amplifier's line-in terminals.
  - **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused. (Cover the terminals of these unused leads with insulating tape, as illustrated above.)**

Usted podrá conectar un amplificador y otro equipo para mejorar el sistema estéreo de su automóvil.

- Para las conexiones, refiérase también a las instrucciones suministradas para los otros componentes.
- Conecte el cable remoto (azul con rayas blancas) al cable remoto del otro equipo para poderlo controlar a través de esta unidad.
- Sólo para el amplificador:
  - Conecte los terminales de salida de línea de esta unidad con los terminales de entrada de línea del amplificador.
  - **Desconecte los altavoces de esta unidad y conéctelos al amplificador. Los cables de los altavoces de esta unidad quedan sin usar. (Cubra los terminales de estos cables sin usar con cinta aislante, tal comose indica en la figura de arriba.)**

Vous pouvez connecter un amplificateur ou un autre appareil pour améliorer votre système autoradio.

- *Pour les connexions, référez-vous aussi aux instructions fournies avec les autres appareils.*
- *Connectez le fil de commande à distance (bleu avec des bandes blanches) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé par cet appareil.*
- *Pour l'amplificateur seulement:*
  - *Raccorder les bornes de sortie ligne de cet appareil aux bornes d'entrée ligne de l'amplificateur.*
  - **Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés. (Recouvrir les extrémités de ces fils inutilisés avec de la bande isolante comme montré ci-dessus.)**



Disassembly method

■ Removing the front panel assembly (See Fig 1 to 3)

1. Remove the four screws **A** (which fasten the front panel)from a righet and left side of the main body.

2. Unhook the right and left four hooks **a** of main body using a screwdrive.and remove the front panel assembly to the direction of front. and the connector which connects the front panel assembly with the rear side unfasten at the same time.

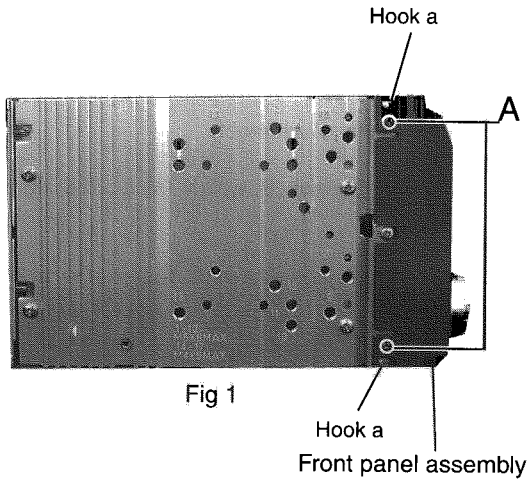


Fig 1

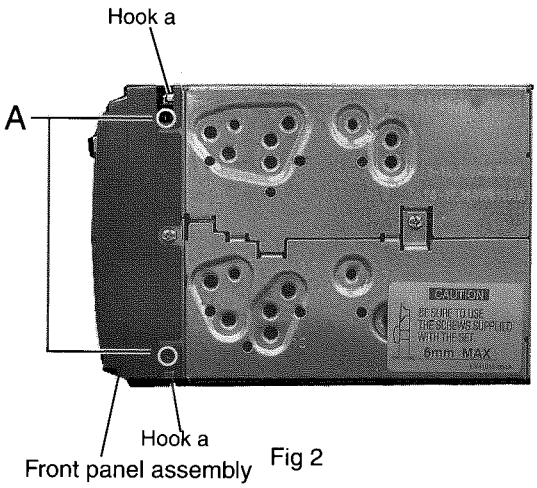


Fig 2

(Attention)
Please confirm the connection surely, connector CN601 and CN650 on front panel assembly side.and connector CN175 and CN176 on main board side.
(See Fig 3)

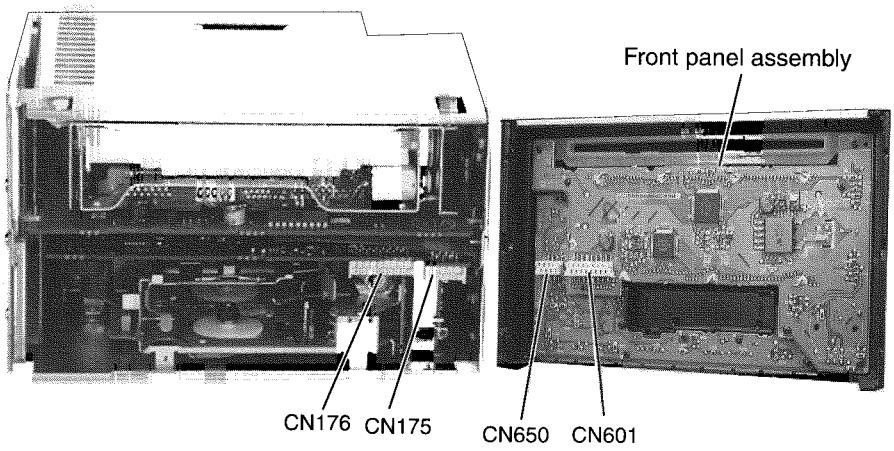


Fig 3

■ Removing the system control board / the switch board.

- Remving the front panel assembly

1. Remove the seven Screws **B** which fasten the front board 1.
2. Remove the Eight Screws **C** which fasten the front board 2.

(Attention)

Please note that the selection knob and the spring unfasten together when you remove Jog dial knob

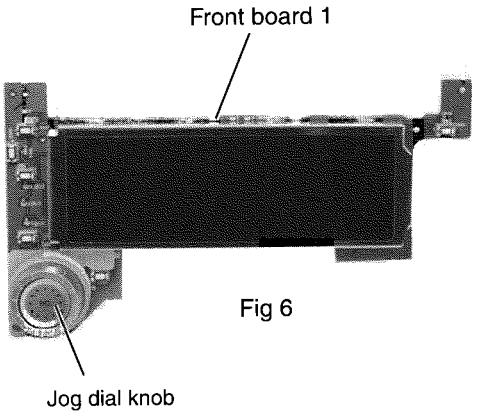


Fig 6

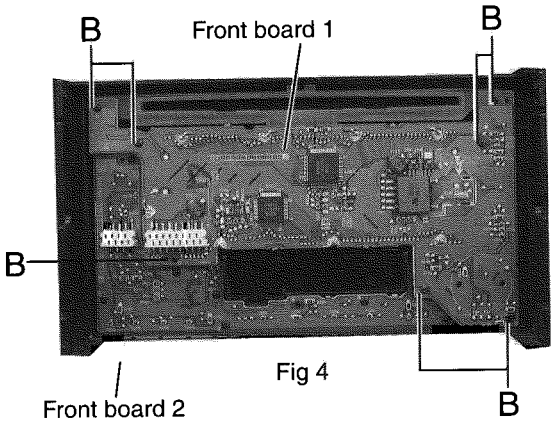


Fig 4

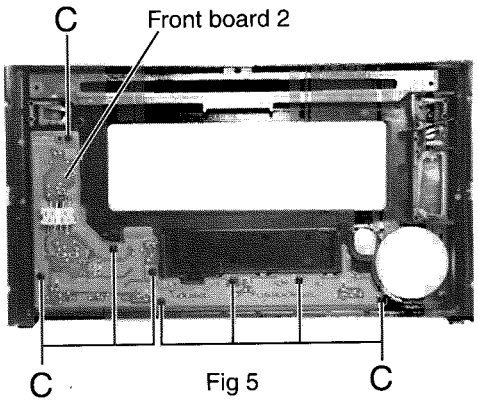


Fig 5

■ Removing the CD player section and Cassette player section.

- Removing the front panel assembly.

1. Remove the ten screws **D**. one screw **E**. two screws **F** and one screw **G** which fasten the rear side of main body and rear panel. (See Fig 7)
2. Remove the four screws **H** and the one screw **I** (fasten the heat sink) from side of main body. (See Fig 8)

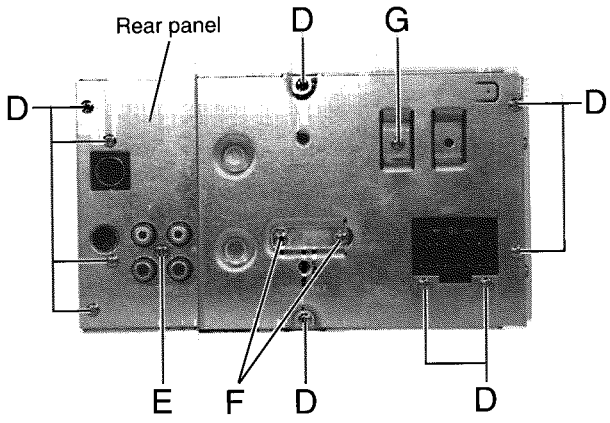


Fig7

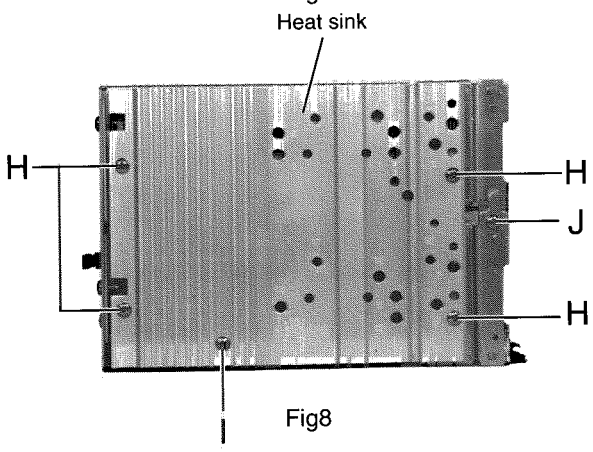


Fig8

3. Remove the two screws **J** (which fasten the CD player and the Cassette player) from right side of mainbody. (See Fig 9)
4. Unfasten joint from the rear side of the main body. (See Fig 10)

(Attention)

When this is assembled, CN144 is connected with the CD player (upper), CN145 is connected with Cassette player (lower).

5. Unfasten the CD player to the direction above.

(Attention)

Please confirm the position of hook **b** in four places when you assemble this. (See Fig10 .11)

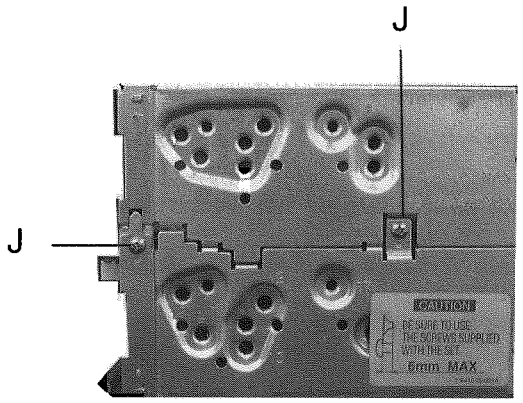


Fig 9

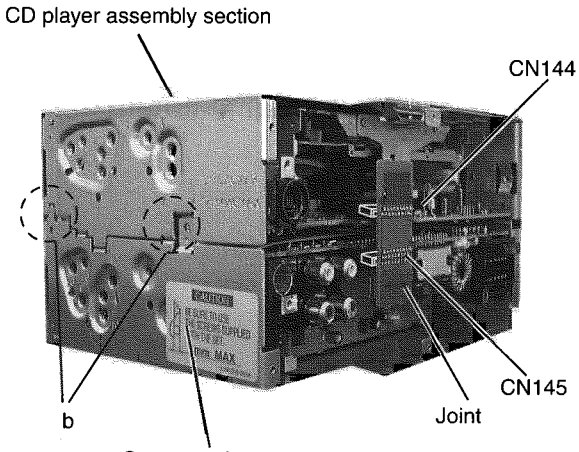


Fig 10

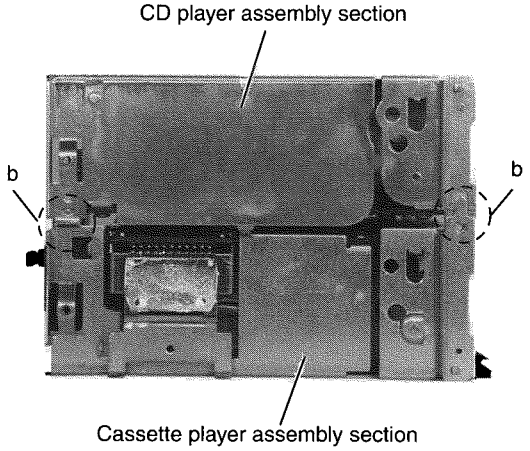


Fig 11

< CD player section >

- Remove the front panel assembly.
- Remove the CD player section and the Cassette player section

■ Removing the CD Servo control board

1. Remove the three screws **K** which fasten the CD servo control board.
   Connector CN301.CN302 of the CD servo control board which has been connected in the connecter board can be removed at the same time.

(Attention)

Please confirm connector CN301 and CN302 of CD Servo control board have been surely inserted in the connector of the connecter board when you assemble this.

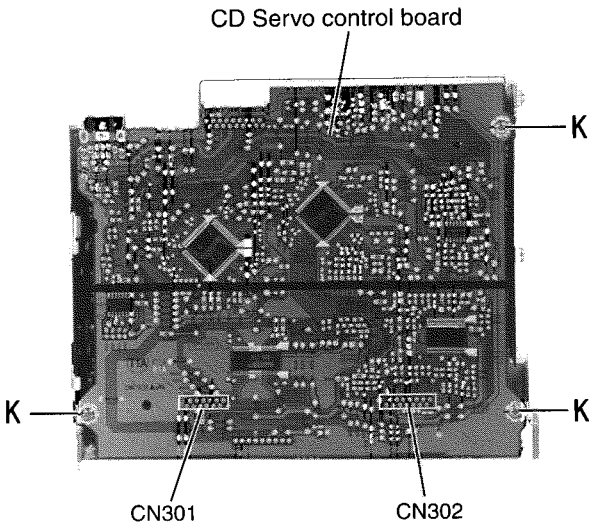


Fig 12

■ Removing the CD mechanism assembly. (See Fig 13)

- Remove the CD servo control board.

1. Remove the three screws **L** which fasten the CD mechanism assembly.

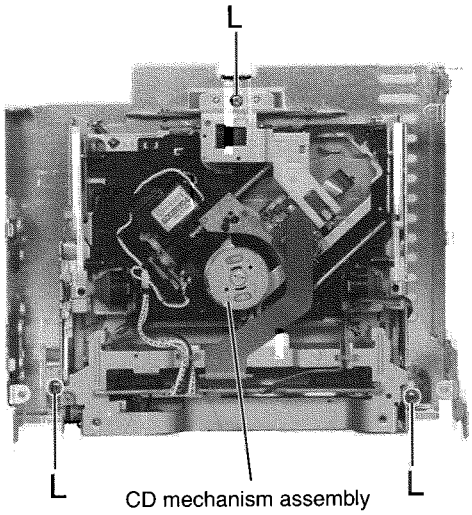


Fig 13

< Cassette player section >

- Remove the front panel assembly.
- Remove the CD player section and the cassette player section.

■ Remove the main board (See Fig 14)

1. Remove the two screws M which fasten the Cassette board.

(Attention)
Please confirm connector CN177 of a cassette board has been surely connected to connector CN193 of the cassette mechanism control board when you assemble this.

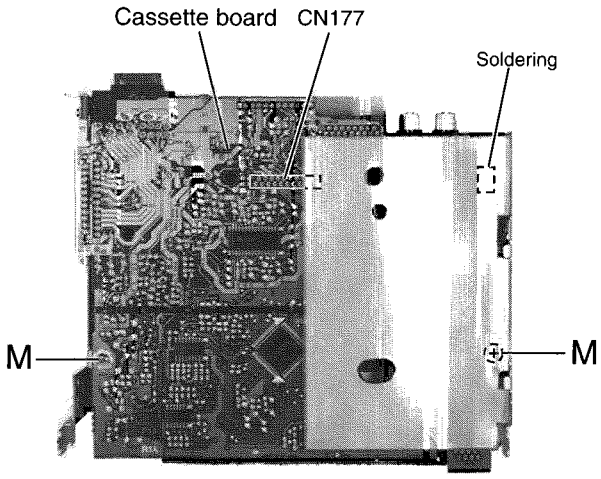


Fig 14

■ Remove the Cassette machanism assembly (See Fig 15.16)

- Remove the cassette board.

1. Remove the four screws **N** which fasten the cassette mechanism.
2. Remove the one screw **O** which fasten the cassette mechanism control board.
3. Remove the harness connected with connector CN192 of the cassette mechanism control board.
4. Hook **b** 2 place of the cassette mechanism control board is unfasten, and connector CN191 is unfasten.

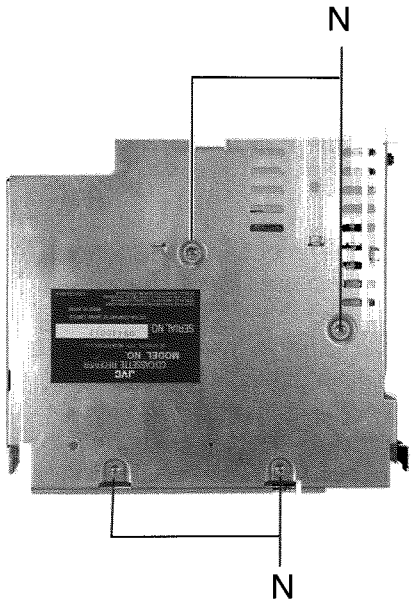


Fig 15

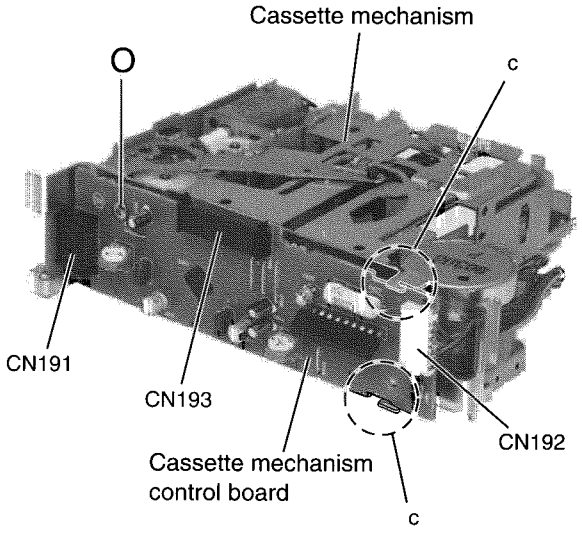


Fig 16

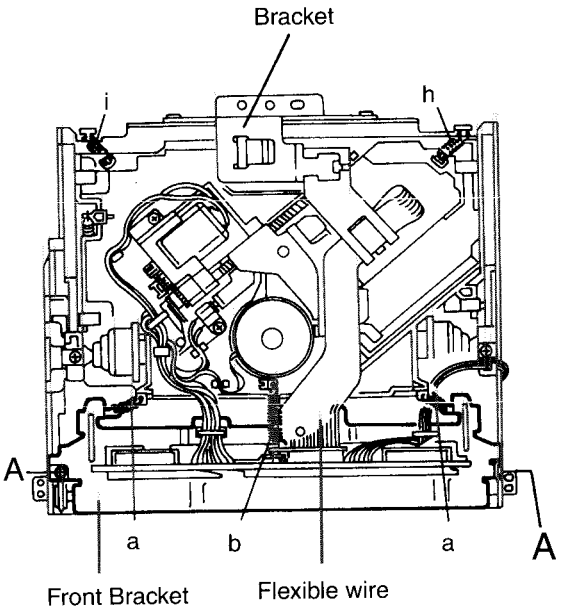


Fig.1

[CD mechanism section]

■Removing the CD mechanism control board

1.Remove the CD mechanism assembly (See "Removlng the CD mechanism assembly").

2.Remove the three springs a and b from behind the CD mechanism assembly(See Fing.1).

3.Disc connect the flexible wire connected to the connector on the CD mechanism control board (See Fig.1).

4.Remove the one screw B retaining the CD mechanism control board(See Fig. 2).

5. After disengaging the engagement between the notch section c and frame,remove the CD mechanism Control board successively from 1 through to 3 in the arrow direction as shown in Fig. 2.

CAUTION:Whenever the flexible wire is disconnected, be sure to remove the soldering in advance as shown in Fig.3. Otherwise , the CD mechanism assembly can possibly be damaged.

6.Remove the two screws A retaining the front bracket for fixing the CD mechanism control board(See Fig.1).

CAUTION:Remove the front bracket from the frame while expanding both sides of the frame as shown in Fig.5

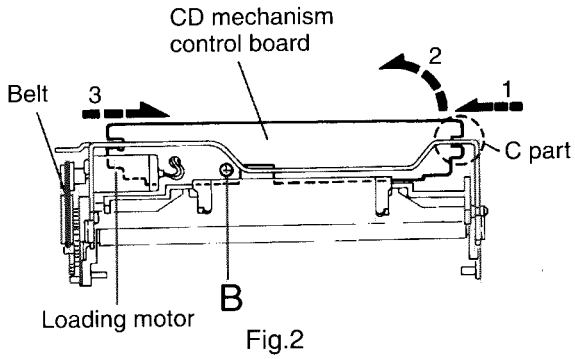


Fig.2

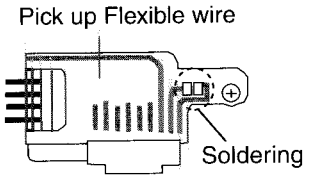


Fig.3

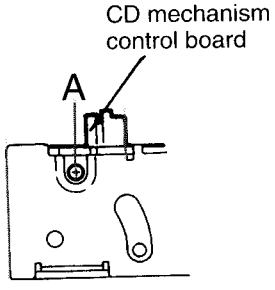


Fig.4

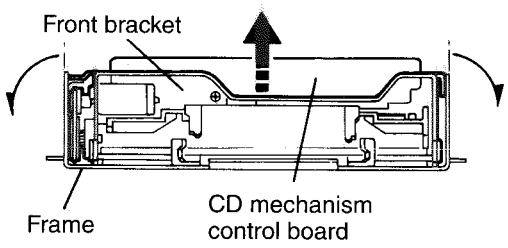


Fig.5

■Removing the loading motor

1.Remove the belt from the loading motor (See Flg.5and Fig.6)

2.Remove the one screw C retaining the loading motor(See Fig.6)

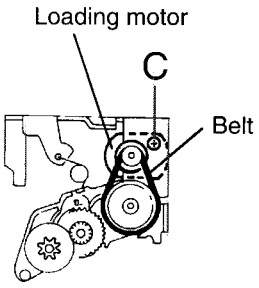


Fig.6

■Removing the CD mechanism assembly

1.Remove the two screws D retaining the bracket for fixing the damper(See Fig.7)

2.Whne shining the fix places on the right and left Sides respectively to the arrow direction, lower the entire CD mechanism. When the shafts(d , e , f and g) on both the right and left sides have been set free as shown in Fig.8 and Fig.9,then the assembly can be removed easily.Remove the two screws E retaining the rear damper bracket to make it easier to remove the damper from the rear damper bracket(See Fig.1, Fig.8 and Fig.9).

3.Remove the two springs h and i as shown in Fig.1 and Fig.7.

4.While removing the right and left sides of the rear damper brackets and dampers. While expanding both sides of the CD mechanism,disassmble the entire CD mechanism.

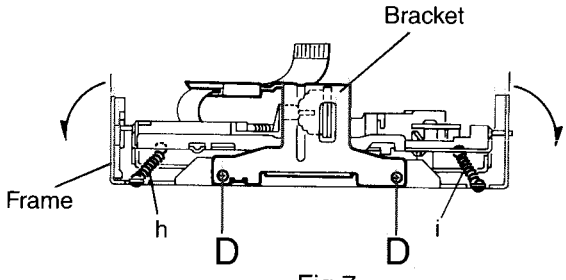


Fig.7

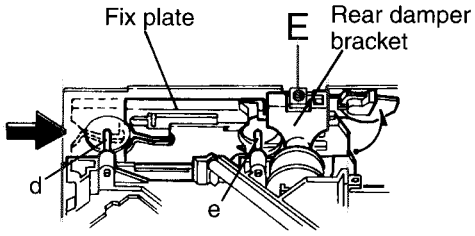


Fig.8

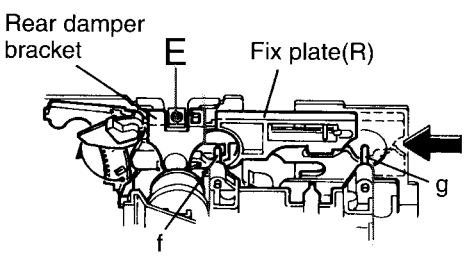


Fig.9

5.While tuning the pickup gear in the arrow direction as shown in Fig.11, shift the entire pickup unit.

6.Remove the three screws F retaining the feed motor assembly and take out this motor assembly (See Fig.10).

7.While pressing and expanding the spring section holding the FD screw in the arrow direction,remove the FD screw and dismount the pickup unit(See Fig.12).

8.By removing the two screw G retaining the pickup unit,dismount the nut push spring plate and pickup mount nut (See Fig.13).

9.Remove the FD screw from the pickup unit (See Fig.13).

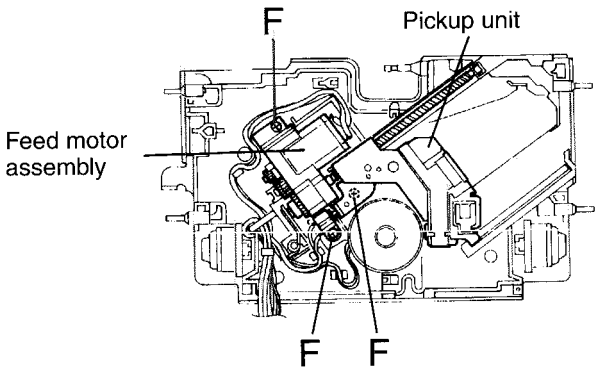


Fig.10

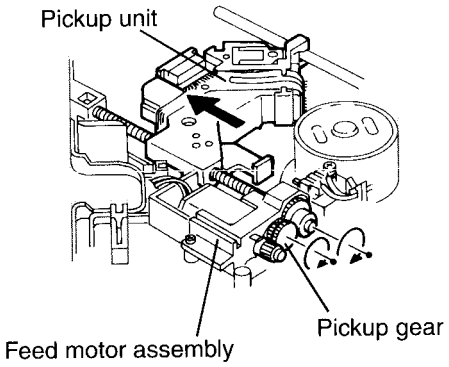


Fig.11

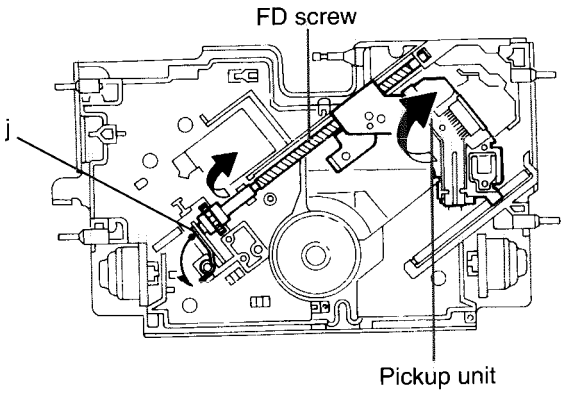


Fig.12

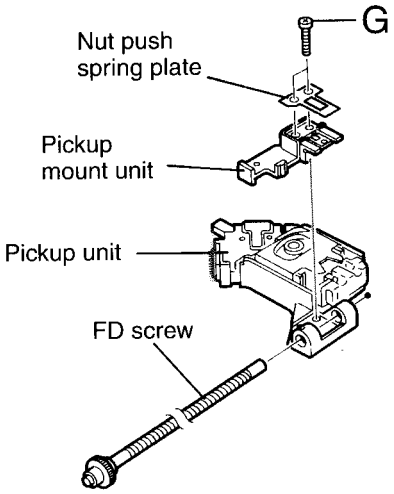


Fig.13

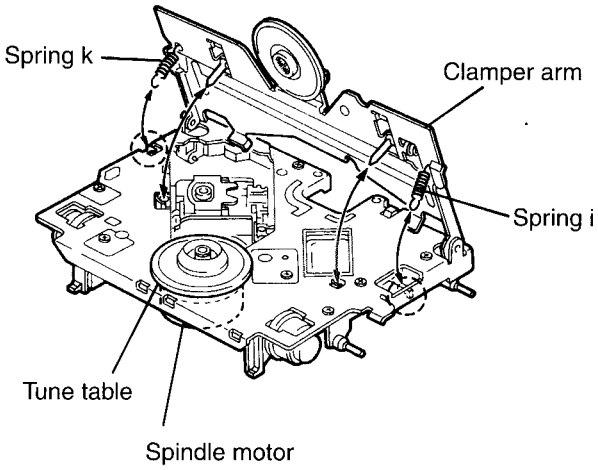


Fig.14

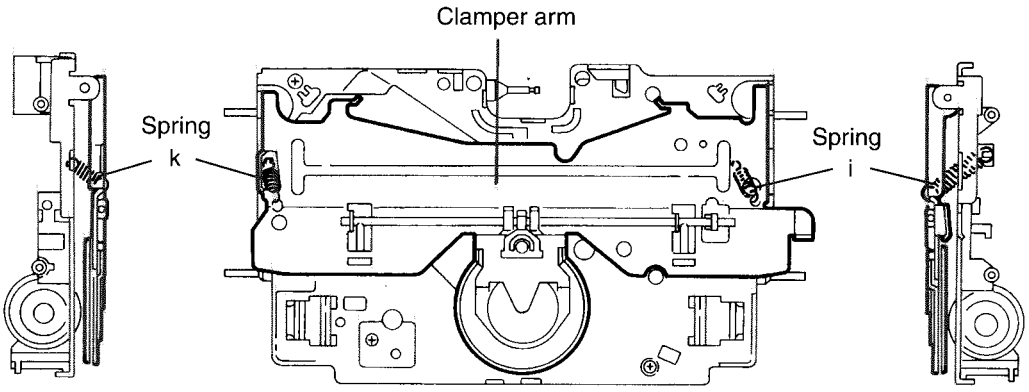


Fig.15-a

Fig.15

Fig.15-b

■ Removing the spindle motor

1.After turning back the CD mechanism to initial positlon,remove the two sparrings k and i on both the right and left sides of the clamper arm(See Fig.14 and Fig.15).

2.While turning the turntable,remove the two screws H retaining the spindle motor and take out the spindle motor (See Fig.16.)

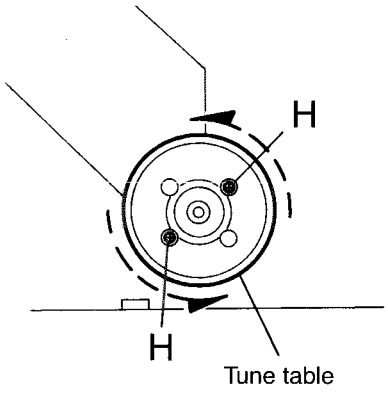


Fig.16

[Cassette mechanism section]

■ **Removing the Head Relay Board (See Fig. 1)**

1. Resolder the lead wires of the loading motor at the two positions shown (RED,BLACK).
2. Resolder the lead wires of the head at the three positions shown (RED,YELLOW, BLACK).
3. Remove the three screws A securing the head relay board.
4. Shaft the interlocking section a securing the head relay board in the direction shown by the arrow 1. to remove the printed circuit board.

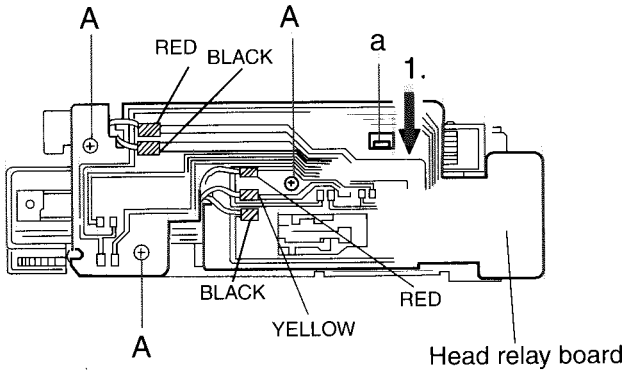


Fig. 1

■ **Removing the Load Arm Assembly (See Fig. 2)**

1. Using tweezers, detach the mylar washer b securing the load arm assembly and pull out the load arm assembly.
   Note : When reassembling, be sure to use a new mylar washer.
2. Shift the load arm assembly counterclockwise.
3. Remove the load arm assembly from the catch (K).

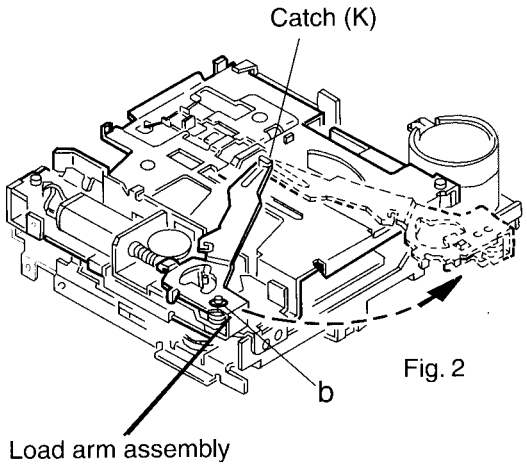


Fig. 2

■ **Removing the Cassette Holder and Holder Arm Assembly (See Fig. 3)**

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Apply DC 6V to the lead wire of the loading motor assembly and turn the load gear assembly to the position shown in Fig. 3.
4. Remove the screw B securing the cassette holder and holder arm assembly.
5. Shift the cassette holder and the holder arm assembly in the direction shown by the arrow 2. and remove them from the interlocking section c of the sub chassis assembly.

■ **Removing the Sub Chassis Assembly (See Fig. 3)**

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Remove the cassette holder and holder arm assembly.
5. Remove the two screws (C . D) securing the sub chassis assembly.

   Note : When removing the sub chassis assembly, the mode gear may become detached. In this case, set it back to the original position.

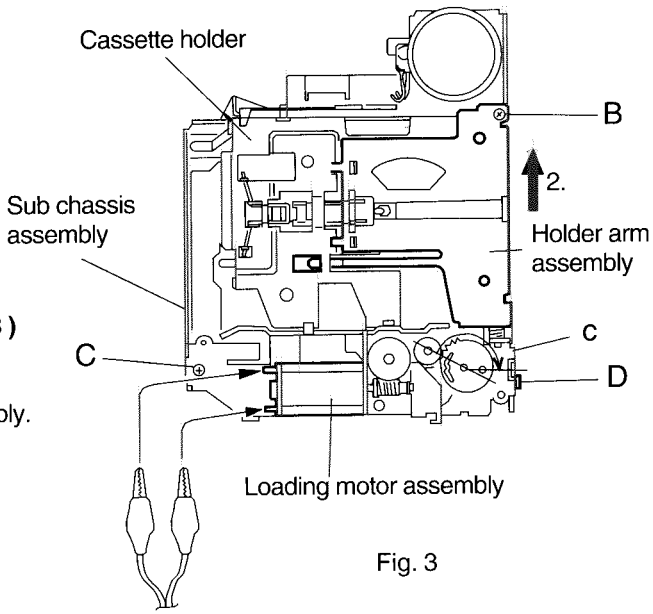


Fig. 3

■ **Removing the Playback Head (See Fig. 4)**

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Removing the sub chassis assembly.
5. Disengage the spring holding the playback head down.
6. Remove the two screws E securing the playback head.

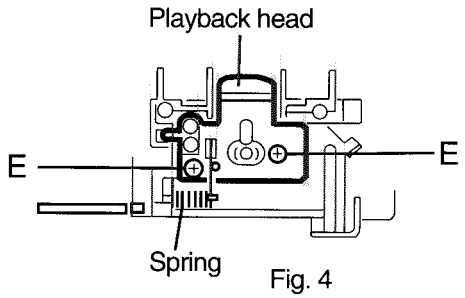


Fig. 4

■ **Removing the Pinch Roller Assembly (See Fig. 5,6)**

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Removing the sub chassis assembly.
5. Detach the mylar washers d at the two positions securing the right and left pinch roller assemblies.

Note : When reassembling, be sure to use new mylar washers. Also, make sure that grease is not adhering to the pinch rollers.

6. Pull out the pinch rollers.

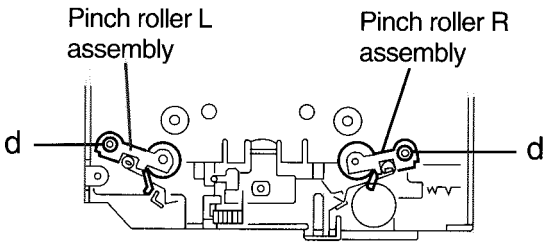


Fig. 5

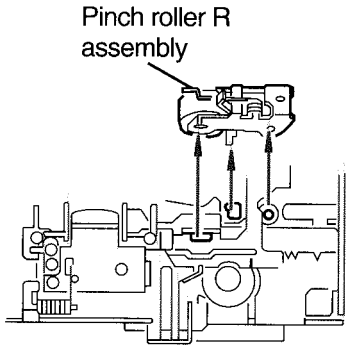


Fig. 6

■ **Removing the Reel Disk Assembly (See Fig. 7)**

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Removing the sub chassis assembly.
5. Detach the mylar washer e from the tip by first pressing down the reel driver to expose it.

Note : When reassembling, be sure to use a new mylar washer.

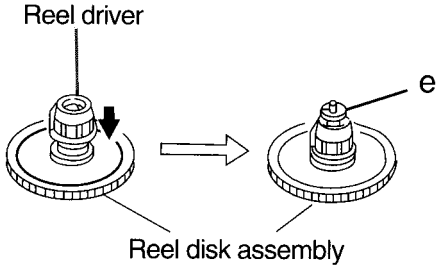


Fig. 7

■ Removing the Head Plate (See Fig. 8,9)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Removing the sub chassis assembly.
5. Removing the left and right pinch roller assembly.
6. From the rear of the head plate, detach the mylar washer f and washer pressing the forward/reverse plate down.
7. Remove the two screws F fixing the metal detection lever and removal spring as shown in Fig. 8.
8. Remove the head plate.
9. Pull out the mode gear.

Note : When installing the mode gear, set it to the arrow mark.

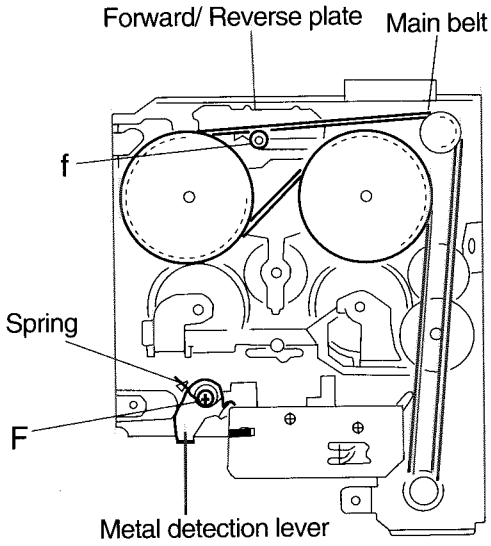


Fig. 8

■ Removing the Flywheel Assembly (See Fig. 9)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Removing the sub chassis assembly.
5. Removing the Head Plate.
6. Disengage the main belt from the flywheel assembly.
7. Remove the E.washer g at the two positions which secure the capstan shaft away from the surface.
8. Pull out the flywheel assembly from the rear.

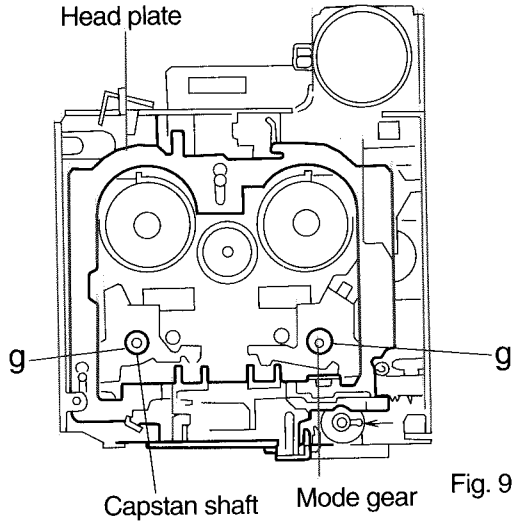


Fig. 9

■ Removing the Reel Disk Board (See Fig. 10)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Removing the sub chassis assembly.
5. Straighten the curved tab h from the tip by first pressing down the reel feather to expose it.
6. Remove the two screws G fixing the reel disk board.
7. Remove the reel disk board.

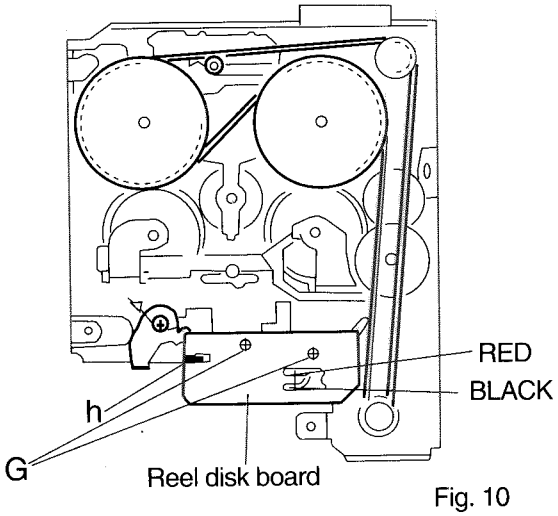


Fig. 10

■ **Removing the Loading Motor Assembly**
(See Fig. 11)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Remove the mylar washer i fixing the worm gear.
   Note : When reassembling, be sure to use a new mylar washer.
4. Remove the one screw H fixing the loading motor assembly.
5. Remove the two screws I fixing the motor bracket.

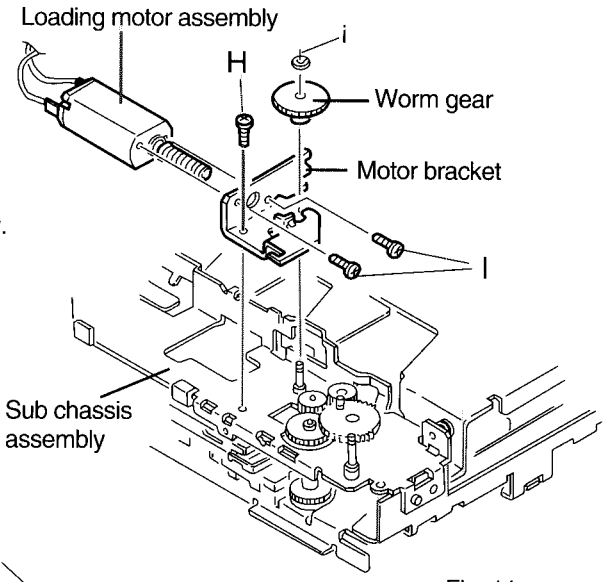


Fig. 11

■ **Removing the Flywheel Assembly (See Fig. 12)**

1. Insert the mode gear into the sub chassis assembly.
2. Install the sub chassis assembly and secure it with the two screws C and D as shown in.
   Note : The set arm assembly and the mode gear should be positioned as shown in Fig. 12.

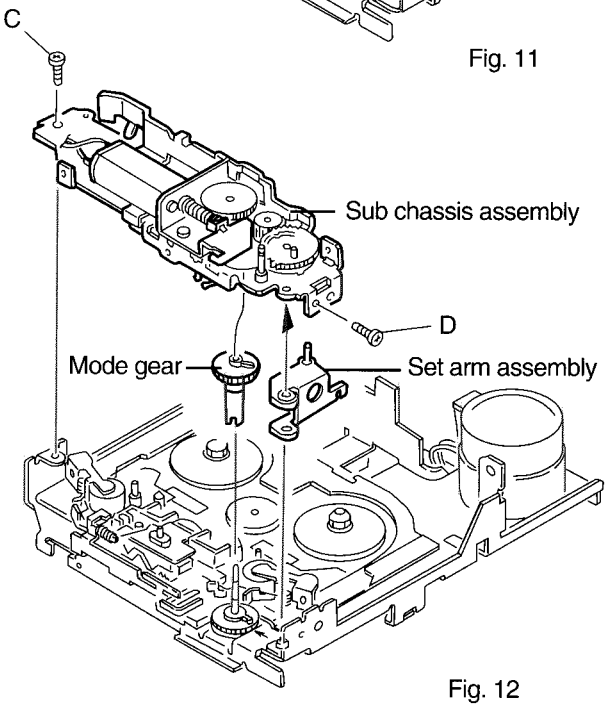


Fig. 12

3. Attach the cassette holder as shown in Fig. 13.
   In the case, first pass the tab of the section j through the mechanism k , then attach the cassette holder in the direction shown by arrow.

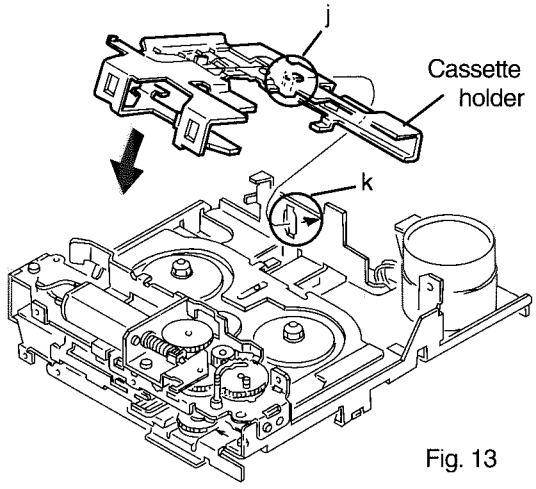


Fig. 13

4. Set the catch (K) to the holder arm assembly as shown in Fig. 14.

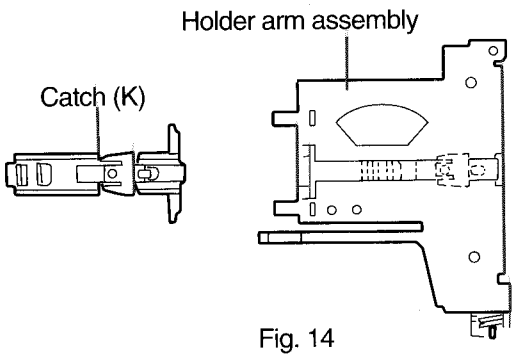


Fig. 14

5. While attaching the holder arm assembly to the cassette holder, insert the shaft of the holder arm assembly into the interlocking section c of the sub chassis assembly as shown in Fig. 15.
6. Install the spring attached to the holder arm assembly shaft over the set arm assembly as shown in Fig. 16.
7. After the holder arm assembly is installed, secure it with the screw B (See Fig. 15)

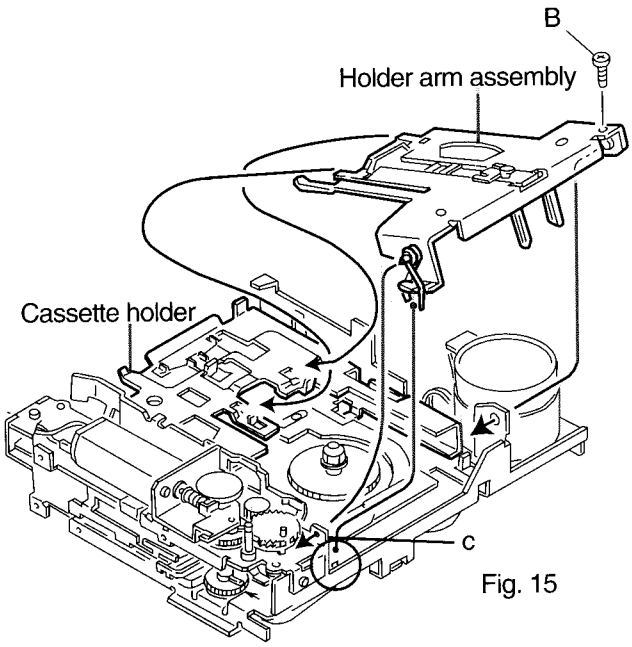


Fig. 15

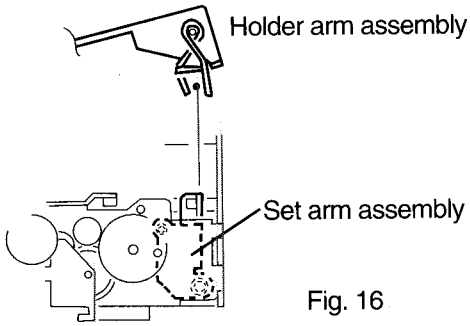


Fig. 16

8. After the installation , apply DC6V to the lead wires of the loading motor assembly to locate the load gear assembly as shown in Fig. 17.
9. Install the load arm assembly.
10. Install the head relay board..
    Note : Install it so that the slide switch lever of the head relay board is set in the printed circuit board stay hook of the sub chassis assembly. (See Fig. 18)

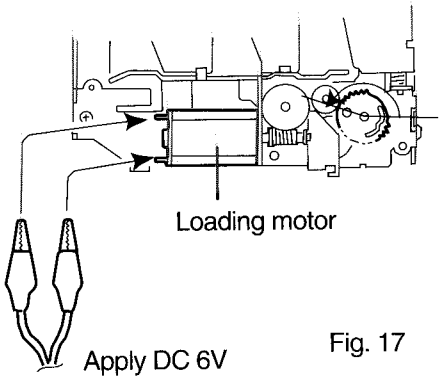


Fig. 17

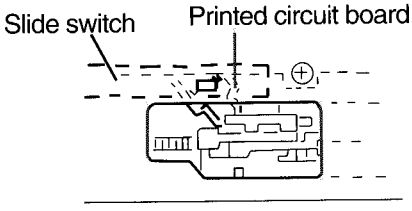


Fig. 18

11. Solder the loading motor and head lead wires to the head relay board, respectively. (See Fig. 19)

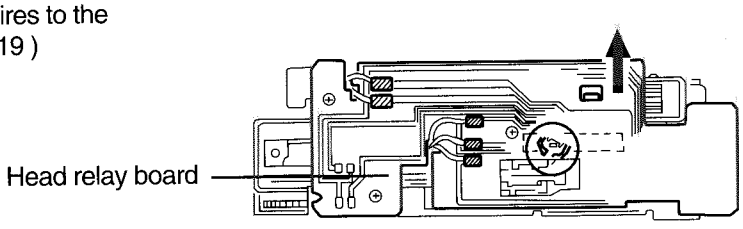


Fig. 19

Adjustment Method

■ Test Instruments required for adjustment

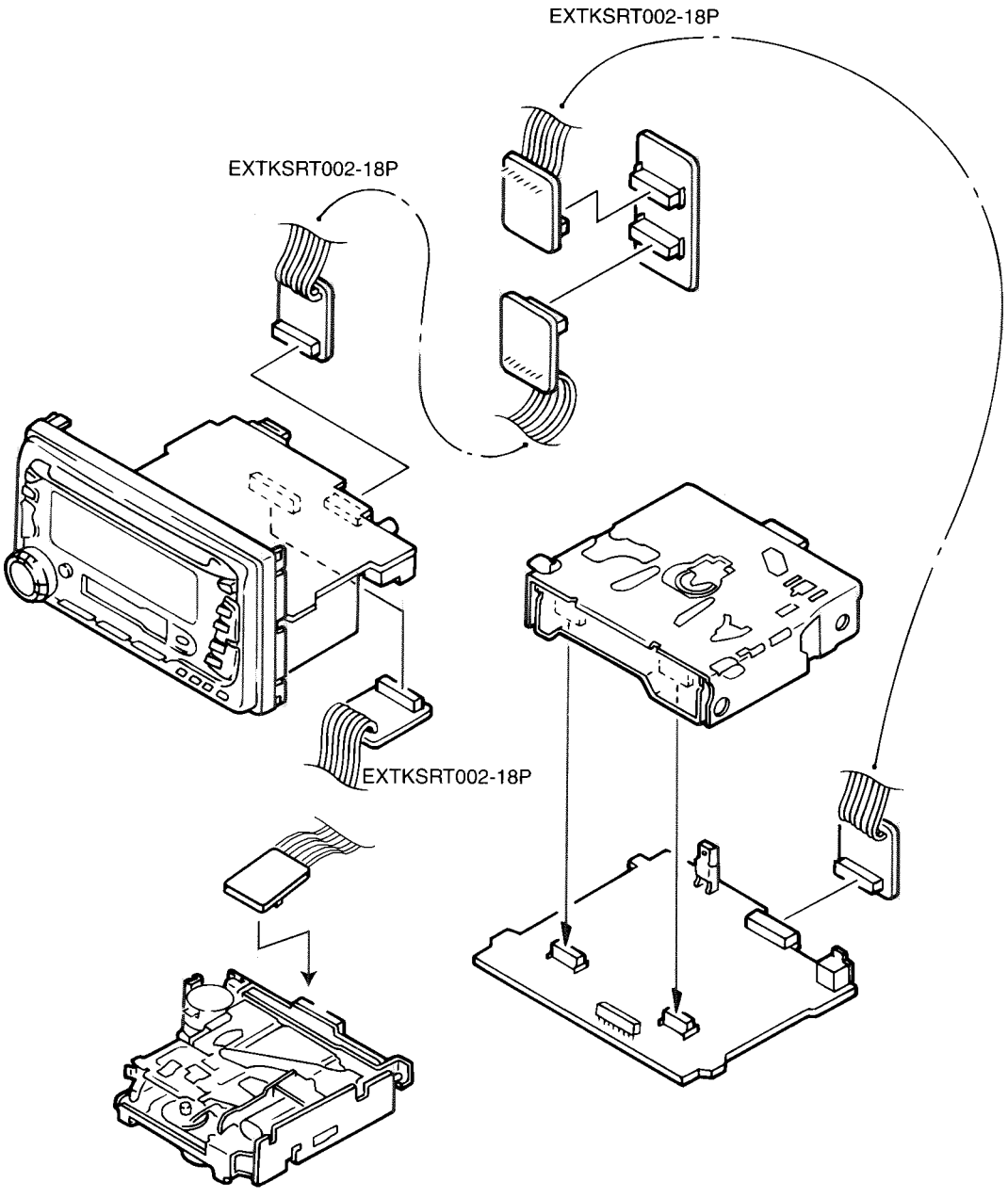
1. Digital osclloscope(100Mz)
2. Frequency Counter meter
3. Electric voltmeter
4. Wow&flutter meter
5. Test tapes VT739..For playback frequency measurement
   VT712..For wow flutter& tape speed measurement
   VT703..For head azimuth measurement
6. Torque gauge Cassette for CTG-N(mechanism adjustment
7. Laser power meter(Reader:LP800102)
8. Prove for MD (Reader:LP8010-02)
9. Pre masterd disc (TGYS-1)
10. Test disc (JVC:CTS1000)

■ Measuring conditions (amplifier section)

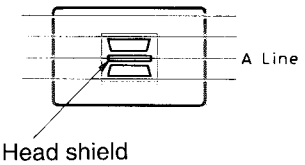
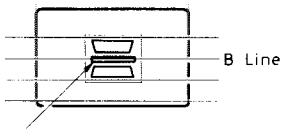
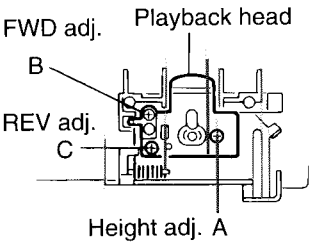
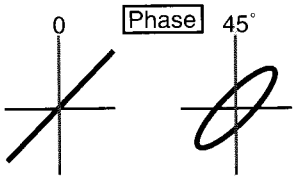
Power supply voltage ..... DC14.4V(10.5 to 16V)
Load impedance..... 4 ohm (2Speakers connecton)
Line out .... 20k ohm

■ Method of connecting extension cable adjustment

Jig list: EXTKSRT002-18P×3

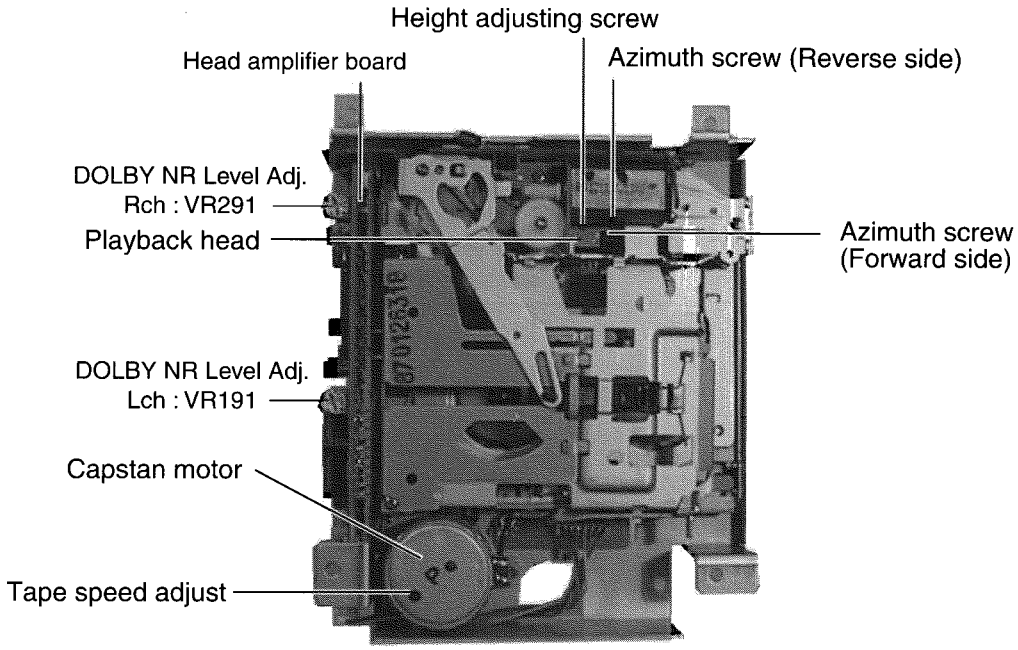


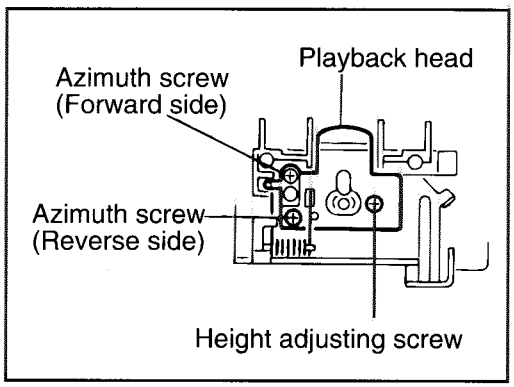
■ Mechanism Adjustment Section

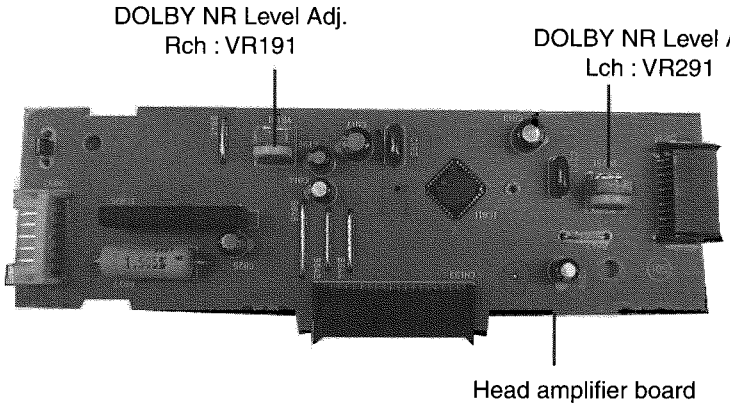
Item	Adjusting & Confirmation Methods	Adjust	Std. Value
1.Head azimuth	"Head Height Adjustment" Note Adjust the azimuth directly. When you adjust the height using a mirror tape, remove the cassette housing from the mechanism chassis. After installing the cassette housing, perform the azimuth adjustment. 1. load the mirror tape (SCC-1659). Adjust with height adjustment screw A and azimuth adjustment screw B so that line "A" of the mirror tape runs in the center between Lch and Rch in the reverse play mode. 2. After switching from REV to FWD then to REV, check that the head position set in procedure "1" is not changed. *If the position has shifted, adjust again and check. 3. Adjust the azimuth screw B so that line "B" of the mirror tape runs in the center between Lch and Rch in the forward play mode. "Head Azimuth Adjustment" 1. Load the test tape (VT724: 1kHz) and play it back in the reverse play mode. set the Rch output level to maximum. 2. Load the test tape (VT703: 10kHz) and play it back in the forward play mode. Adjust the Rch and Lch output levels to maximum, with azimuth adjustment screw B . In this case, the phase difference should be within 45°. 3. Engage the reverse mode and adjust the output level to maximum, with azimuth adjustment screw C . 4. When switching between forward and reverse modes, the difference between channels should be within 3dB. *Between FWD Lch and Rch, REV Lch and Rch. 5. When the test tape (VT721 (315Hz)) is played back, the level difference between channels should be within 1.5dB.	 Head shield The head is at low position during FWD.  Head shield The head is at height position during REV.  	
2. Tape Speed and Wow & Flutter	1. Check to see if the reading of the frequency counter & Wow flutter meter is within 3015-3045 Hz (FWD/REV), and less than 0.35% (JIS RMS). 2. In case of out of specification, adjust the motor with a built-in volume resistor.	Built-in volume resistor	Tape Speed 3015-3045Hz Wow & Flutter Less than 0.35% (JIS RMS)
3. DOLBY NR level adjustment	1. Play the test tape (VT724 : 1kHz) back. 2. Adjust the VR191 (Lch) and VR291 (Rch) so that the DOLBY NR level is 27.5mV ± 0.5dB by TP191 (Lch), TP291 (Rch).	VR191:Lch VR291: Rch	Speaker out 1kHz/10kHz : -1dB ± 3dB, 63Hz/1kHz : 0dB ± 3dB,

■ Arrangement of Adjusting & Test points

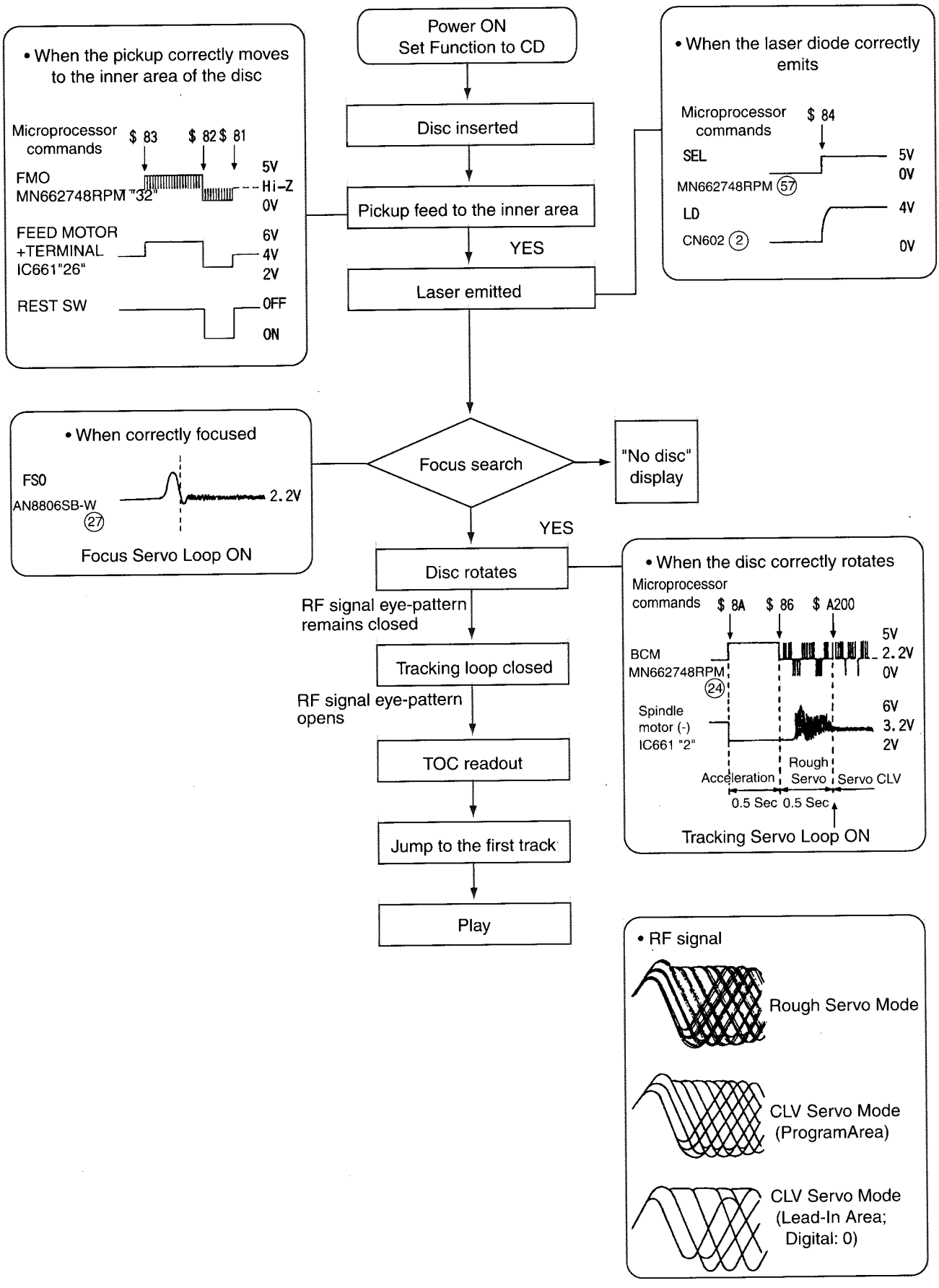
Cassette mechanism
(Surface)



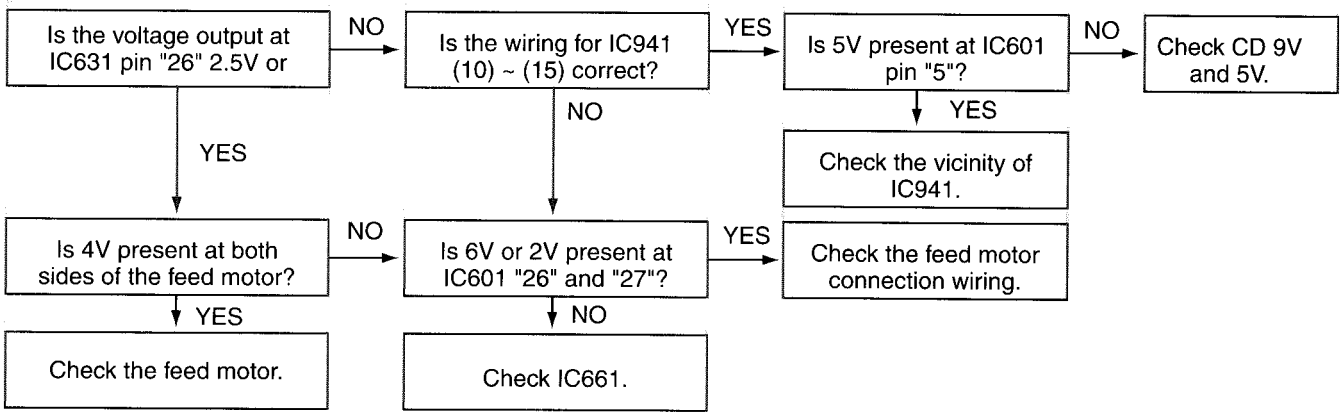




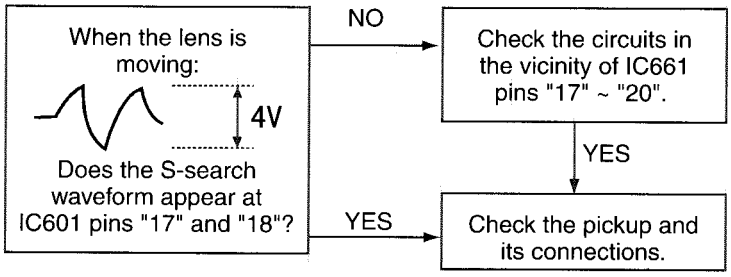
Flow of functional operation until TOC read



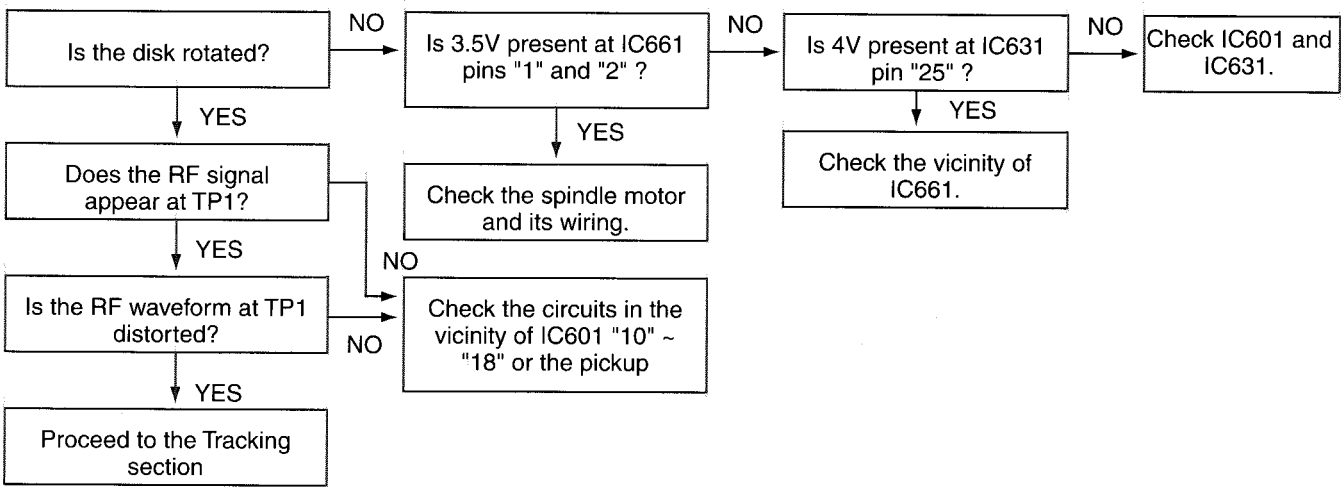
Feed Section



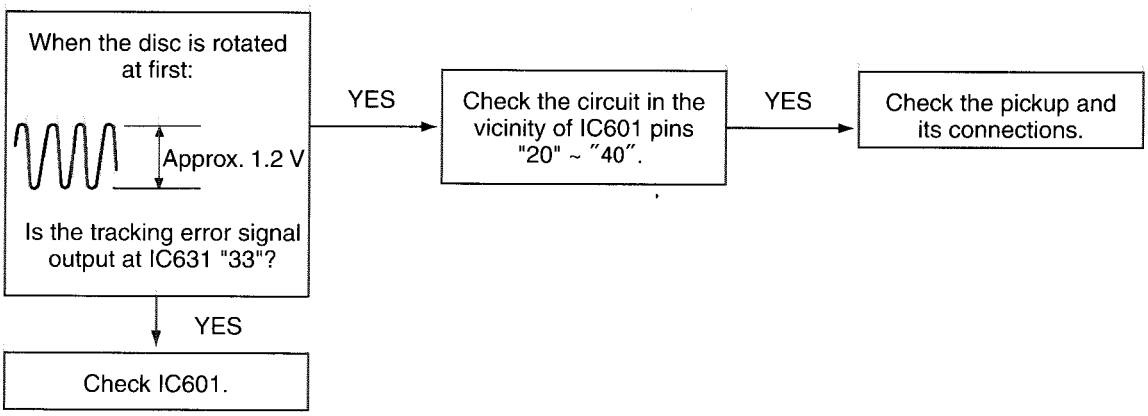
Focus Section



Spindle Section



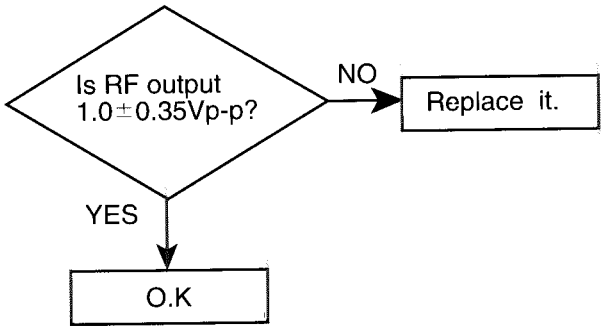
Tracking Section



Maintenance of laser pickup

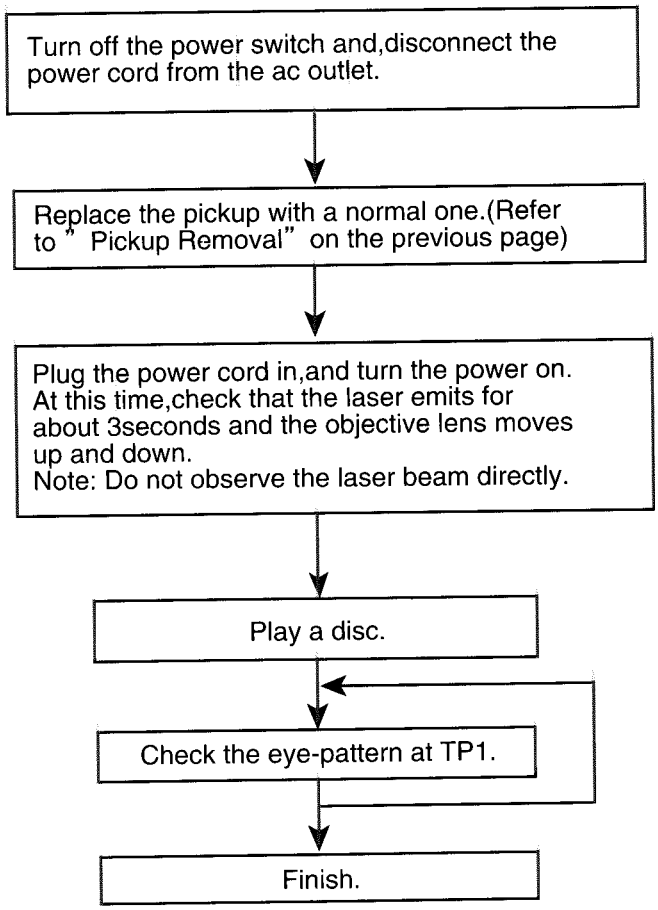
(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.
(1) The level of RF output (EFM output:amplitude of eye pattern) will be low.



(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value,the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor is adjusted while the pickup is functioning normally,the laser pickup may be damaged due to excessive current.

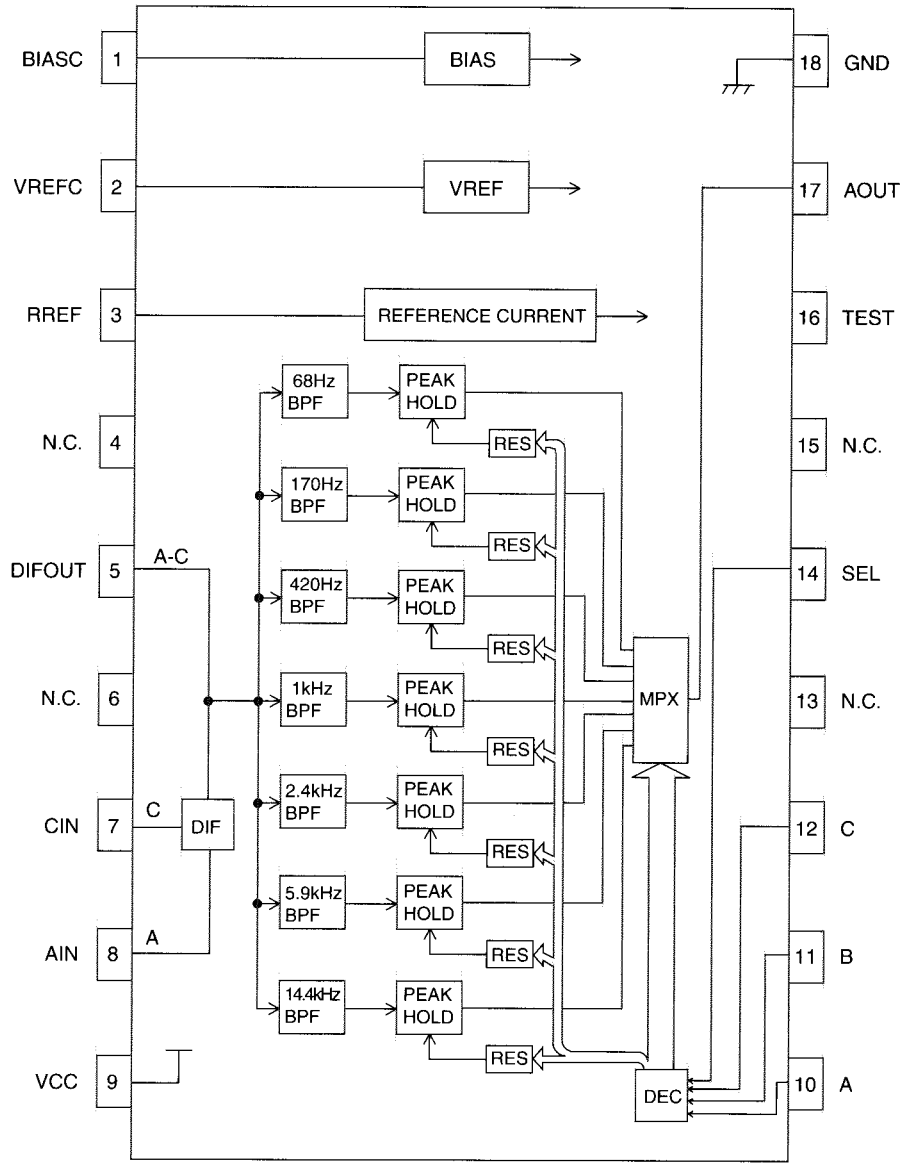
Replacement of laser pickup



Description of major ICs

■ BA3834F-W (IC81) : Spectro Analyzer Controller

1. Pin Layout & Block Diagram

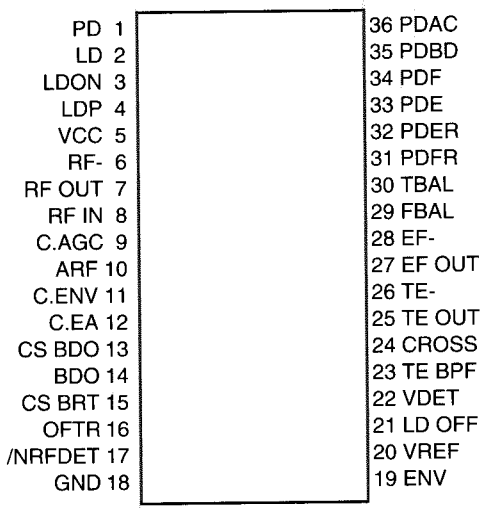


2. Pin Functions

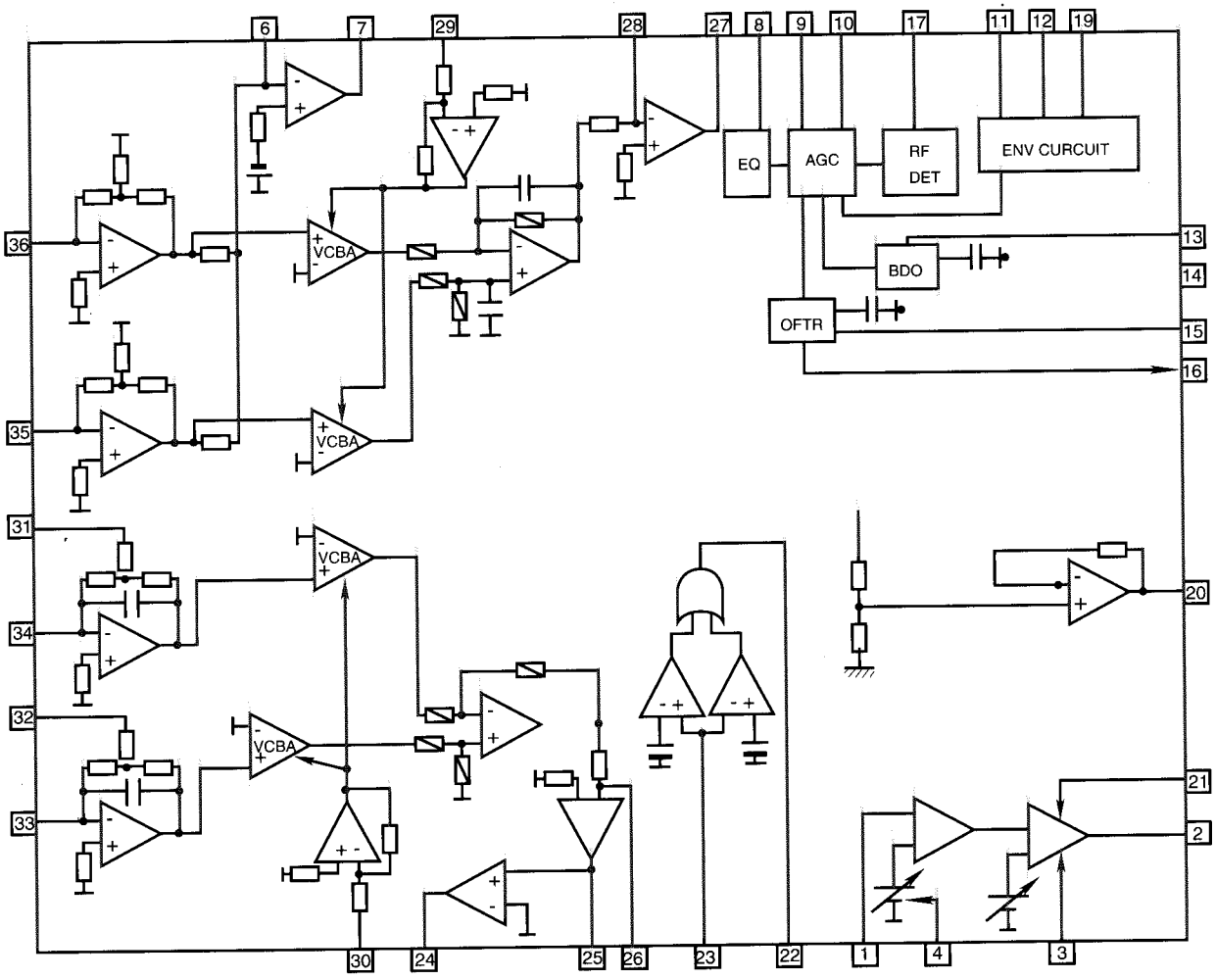
Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	BIASC	For reference voltage of linear unit.	10	A	Output selection control terminal
2	VREFC	For reference voltage of logic unit	11	B	Output selection control terminal
3	RREF	Reference resistance condition terminal for setting B.P.F. "f0"	12	C	Output selection control terminal
4	N.C.	Not used	13	N.C.	Not used
5	DIFOUT	Differential amplifier output terminal	14	SEL	Output selection control terminal
6	N.C.	Not used	15	N.C.	Not used
7	CIN	Differential amplifier input terminal #2	16	TEST	Test signal input terminal
8	AIN	Differential amplifier input terminal #1	17	AOUT	MPX output terminal
9	VCC	Power supply terminal	18	GND	Ground terminal

■AN8806SB-W(IC301) :RF&SERVO AMP

1.Pin layout



2.Block diagram



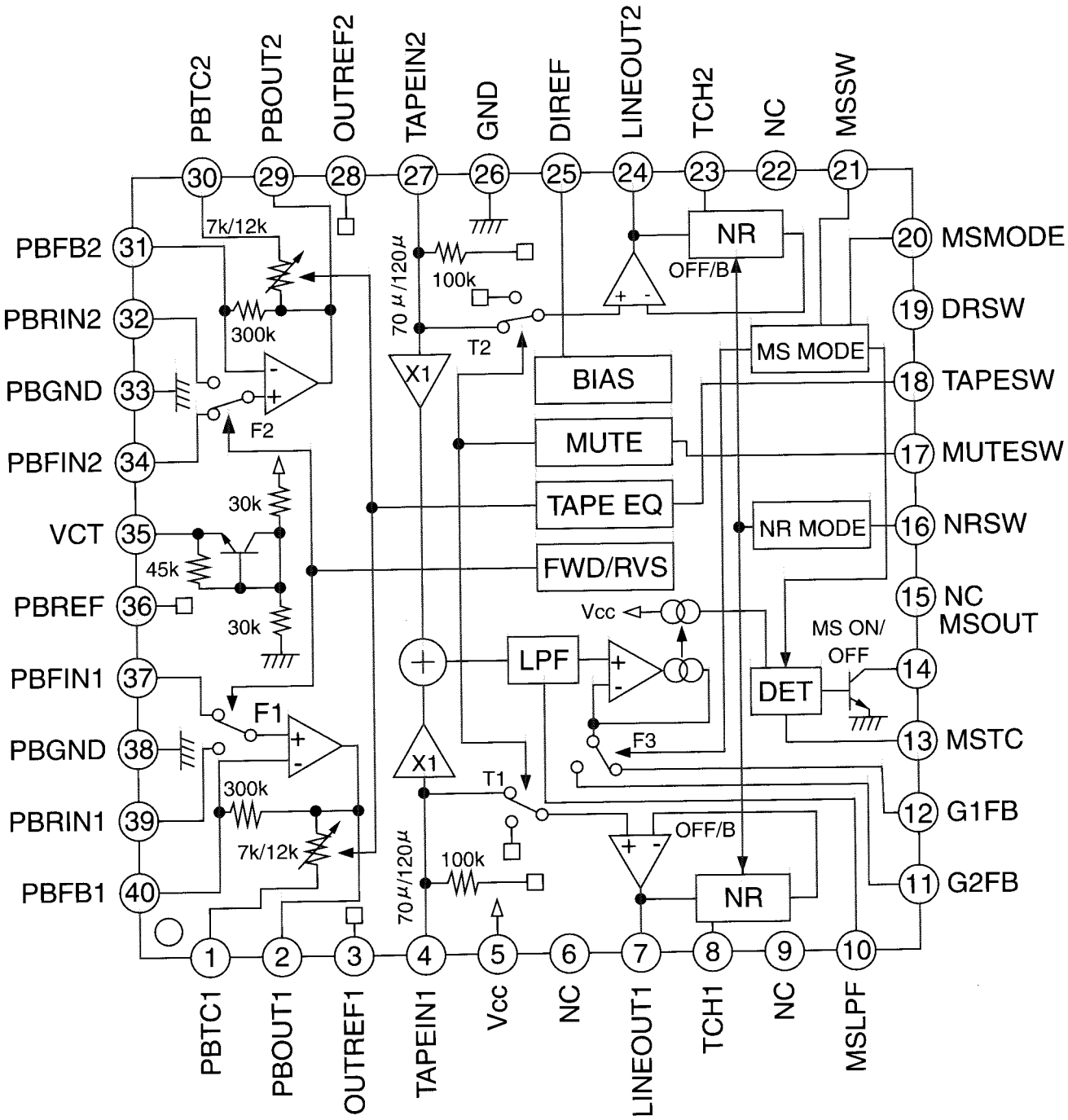
3. Pin function

Pin No.	symbol	I/O	Function
1	PD	I	APC amp . Input terminal
2	LD	O	APC amp . Output terminal
3	LD ON	I	LD ON/OFF control terminal
4	LDP	--	Connect to GND
5	VCC	--	Power supply
6	RF-	I	RF amp . Reversing input terminal
7	RF OUT	O	RFamp . Output terminal
8	RF IN	I	AGC input terminal
9	C.AGC	I/O	AGC loop filter connection terminal
10	ARF	O	ARF output terminal
11	C.ENV	I/O	RF detection capacity connection terminal
12	C.EA	I/O	HPF-amp capacity connection terminal
13	CS BDO	I/O	Capacity connection terminal for RF discernment side envelope detection
14	BDO	O	BDO output terminal
15	CS BRT	I/O	Capacity connection terminal for RF discernment side envelope detection
16	OFTR	O	OFTR output terminal
17	/NRFDET	O	RFDET output terminal
18	GND	--	Connect to GND
19	ENV	O	3TENV output terminal
20	VREF	O	VREF output terminal
21	LD OFF	--	APC OFF control terminal
22	VDET	O	VDET output terminal
23	TE BPF	I	VDET input terminal
24	CROSS	O	CROSS output terminal
25	TE OUT	O	TE amp . Output terminal
26	TE-	I	FE amp . Reversing input terminal
27	FE OUT	O	FE amp . output terminal
28	FE-	I	FE amp . Reversing input terminal
29	FBAL	I	F.BAL control terminal
30	TBAL	I	T.BAL control terminal
31	PDFR	I/O	I-V amp conversion resistance adjustment terminal
32	PDER	I/O	I-V amp conversion resistance adjustment terminal
33	PDF	I	I-V amp input terminal
34	PDE	I	I-V amp input terminal
35	PD BD	I	I-V amp input terminal
36	PD AC	I	I-V amp input terminal

■ CXA2560Q (IC811) :

Dolby b Type Noise Reduction System with Playback Equalizer Amplifier

1.Block diagram

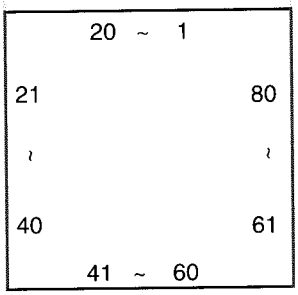


2.Pin function

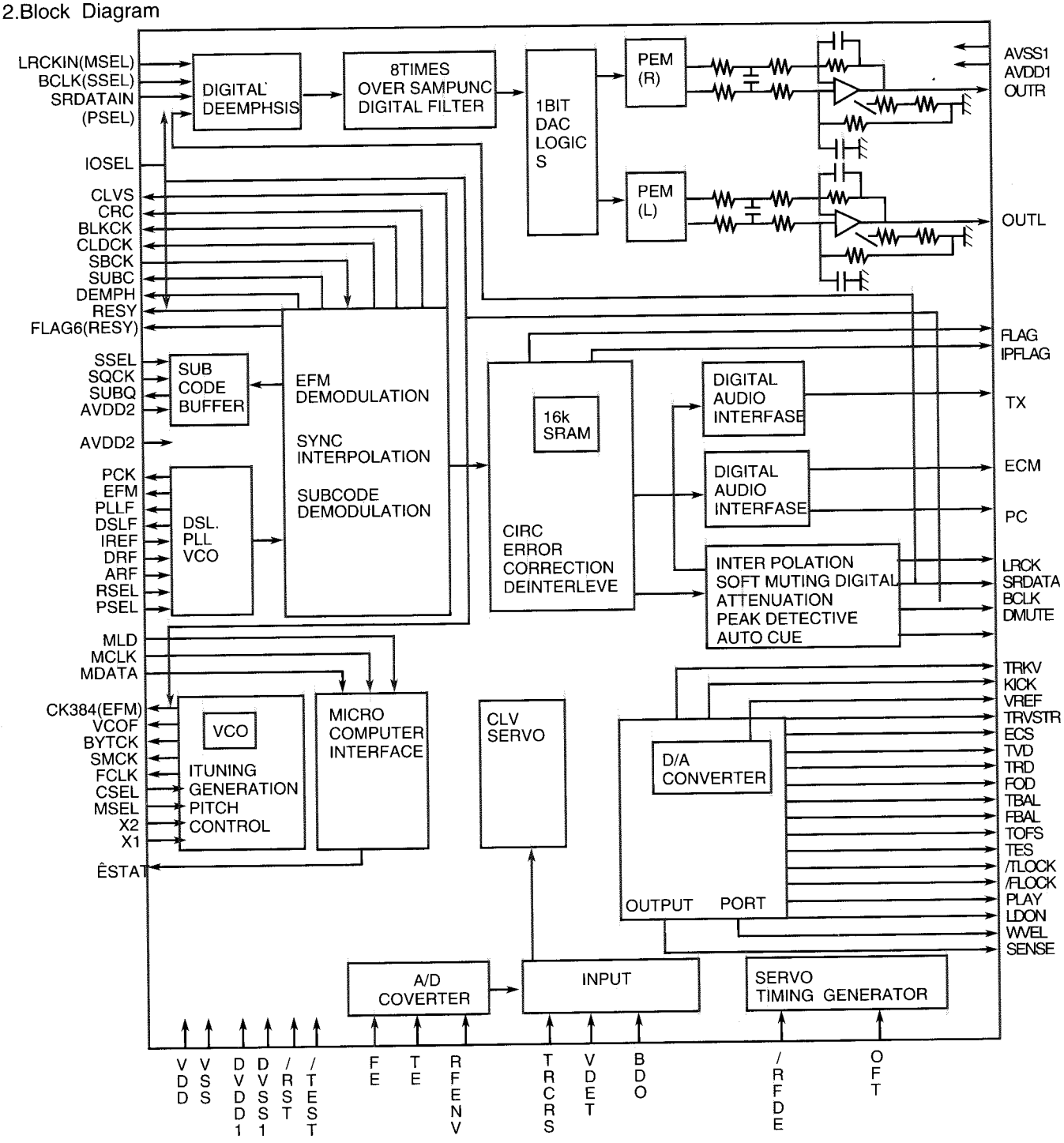
Pin NO.	Symbol	I/O	Function
1	PBTC1	—	Playback equalizer amplifier capacitance.
2	PBOUT1	O	Playback equalizer amplifier output.
3	OUTREF1	O	Output reference.(VCC/2 output)
4	TAPEIN1	I	TAPE input.
5	Vcc	—	Power supply.
6	NC	—	Non connection.
7	LINEOUT1	O	Line output.
8	TCH1	—	Time constant for the HLS.
9	NC	—	Non connection.
10	MSLPF	—	Cut-off frequency adjustment of the music sensor LPF.
11	G2FB	—	Music signal interval detection level setting.
12	G1FB	—	Music signal interval detection level setting.
13	MSTC	—	Time constant for detecting the music signal interval.
14	MSOUT	O	Music sensor output.
15	NC	—	Non connection.
16	NRSW	I	Dolby NR control. Low(open):NR OFF High:NR ON
17	MUTESW	I	Mute function control. Low(open):MuteOFF High:Mute ON.
18	TAPESW	I	Playback equalizer amplifier control. Low(open):70μs High:120μs.
19	DRSW	I	Head select control. Low(open):FORWARD High:REVERSE.
20	MSMODE	I	Music sensor mode control. Low(open):G1 High:G2.
21	MSSW	I	Music sensor control. Low(open):MS ON High:MS OFF.
22	NC	—	Non connection.
23	TCH2	—	Time constant for the HLS.
24	LINEOUT2	O	Line output.
25	DIREF	—	Resistance for setting the reference current.
26	GND	—	Ground.
27	TAPEIN2	I	TAPE input.
28	OUTREF2	O	Output reference.(VCC/2 output)
29	PBOUT2	O	Playback equalizer amplifier output.
30	PBTC2	—	Playback equalizer amplifier capacitance.
31	PBFB2	I	Playback equalizer amplifier feedback.
32	PBRIN2	I	Playback equaalizer amplifier input.
33	PBGND	—	Playback equaalizer amplifier ground.
34	PBFIN2	I	Playback equaalizer amplifier input.
35	VCT	O	Center.
36	PBREF	O	Playback equaalizer amplifier reference.
37	PBFIN1	I	Playback equaalizer amplifier input.
38	PBGND	—	Playback equaalizer amplifier ground.
39	PBRIN1	I	Playback equaalizer amplifier input.
40	PBFB1	I	Playback equaalizer amplifier feedback.

■ MN662748RPM(IC311):DIGITAL SERVO&DIGITAL SIGNAL PROCESSER

1. Terminal Layout



2.Block Diagram

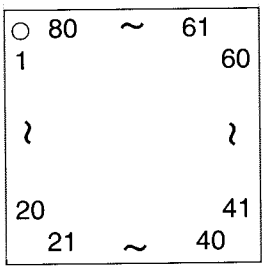


3. Description

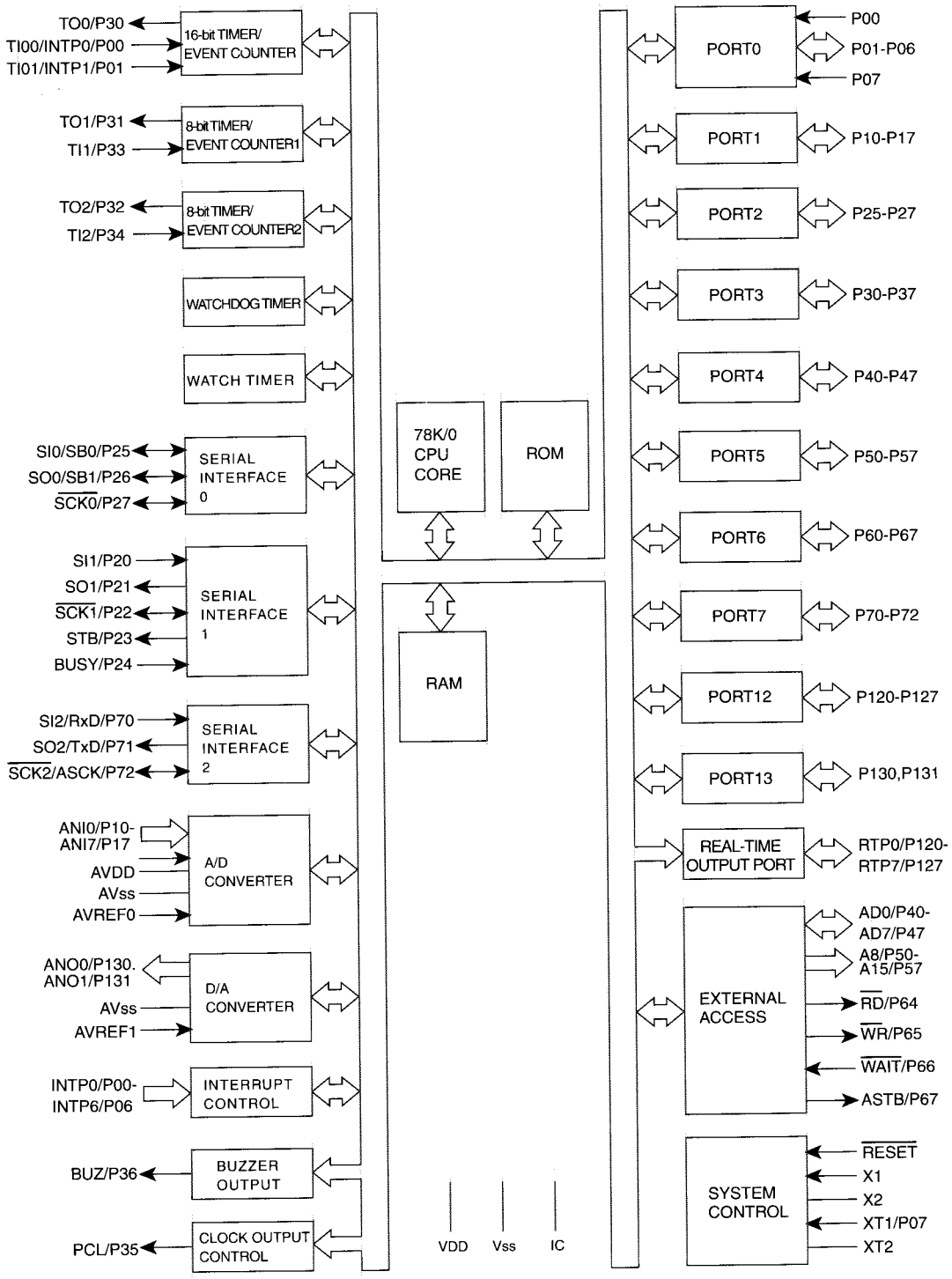
Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output (H:shunt)
2	LRCK	O	Not used	42	PLAY	–	Not used
3	SRDATA	O	Not used	43	WVEL	–	Not used
4	DVDD1	–	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	–	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface output	46	DRF	I	Bias pin for DSL
7	MCLK	I	CPU command clock signal input (Data is latched at signal's rising point)	47	DSLF	I/O	Loop filter pin for DSL
8	MDATA	I	CPU command data input	48	PLLF	I/O	Loop filter pin for PLL
9	MLD	I	CPU command load signal input	49	VCOF	–	Not used
10	SENSE	O	Sense signal output	50	AVDD2	–	Power supply (Analog)
11	FLOCK	O	Focus lock signal output Active :Low	51	AVSS2	–	Connected to GND (Analog)
12	TLOCK	O	Tracking lock signal output Active :Low	52	EFM	–	Not used
13	BLKCK	O	sub-code/block/clock signal output	53	PCK	–	Not used
14	SQCK	I	Outside clock for sub-code Q resister input	54	PDO	–	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	–	Not used
16	DMUTE	–	Connected to GND	56	SBCK	–	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	–	Connected to GND (for X'tal oscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	XI	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	–	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	–	Not used	60	VDD	–	Power supply (for X'tal oscillation circuit)
21	TRV	O	Traverse enforced output	61	BYTCK	–	Not used
22	TVD	O	Traverse drive output	62	CLDCK	–	Not used
23	PC	–	Not used	63	FLAG	–	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	–	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	–	Not used
26	KICK	O	Kick pulse output	66	CLVS	–	Not used
27	TRD	O	Tracking drive output	67	CRC	–	Not used
28	FOD	O	Focus drive output	68	DEMPH		Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	–	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	–	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	–	pull up
32	FE	I	Focus error signal input (Analog input)	72	AVDD1	–	Power supply (Digital)
33	TE	I	Tracking error signal input (Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input (Analog input)	74	AVSS1	–	Connected to GND
35	VDET	I	Vibration detect signal input (H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input (H:off track)	76	RSEL	–	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	–	Connected to GND
38	RFDET	I	RF detect signal input (L:detect)	78	PSEL	–	Connected to GND
39	BDO	I	BDO input pin (L:detect)	79	MSEL	–	Connected to GND
40	LDON	O	Laser ON signal output (H:on)	80	SSEL	–	Pull up

■ UPD78053GC-A63 (IC541) : CD System Controller

1. Pin Layout



2. Block Diagram

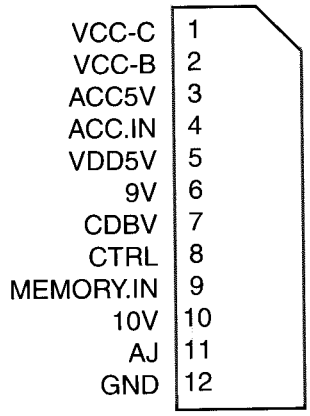


3. Description

Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output (H:shunt)
2	LRCK	O	Not used	42	PLAY	—	Not used
3	SRDATA	O	Not used	43	WVEL	—	Not used
4	DVDD1	—	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	—	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface output	46	DRF	I	Bias pin for DSL
7	MCLK	I	CPU command clock signal input (Data is latched at signal's rising point)	47	DSLF	I/O	Loop filter pin for DSL
8	MDATA	I	CPU command data input	48	PLLF	I/O	Loop filter pin for PLL
9	MLD	I	CPU command load signal input	49	VCOF	—	Not used
10	SENSE	O	Sense signal output	50	AVDD2	—	Power supply (Analog)
11	FLOCK	O	Focus lock signal output Active :Low	51	AVSS2	—	Connected to GND (Analog)
12	TLOCK	O	Tracking lock signal output Active :Low	52	EFM	—	Not used
13	BLKCK	O	sub-code/block/clock signal output	53	PCK	—	Not used
14	SQCK	I	Outside clock for sub-code Q resister input	54	PDO	—	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	—	Not used
16	DMUTE	—	Connected to GND	56	SBCK	—	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	—	Connected to GND (for X'tal oscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	XI	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	—	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	—	Not used	60	VDD	—	Power supply (for X'tal oscillation circuit)
21	TRV	O	Traverse enforced output	61	BYTCK	—	Not used
22	TVD	O	Traverse drive output	62	CLDCK	—	Not used
23	PC	—	Not used	63	FLAG	—	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	—	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	—	Not used
26	KICK	O	Kick pulse output	66	CLVS	—	Not used
27	TRD	O	Tracking drive output	67	CRC	—	Not used
28	FOD	O	Focus drive output	68	DEMPH		Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	—	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	—	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	—	pull up
32	FE	I	Focus error signal input (Analog input)	72	AVDD1	—	Power supply (Digital)
33	TE	I	Tracking error signal input (Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input (Analog input)	74	AVSS1	—	Connected to GND
35	VDET	I	Vibration detect signal input (H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input (H:off track)	76	RSEL	—	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	—	Connected to GND
38	RFDET	I	RF detect signal input (L:detect)	78	PSEL	—	Connected to GND
39	BDO	I	BDO input pin (L:detect)	79	MSEL	—	Connected to GND
40	LDON	O	Laser ON signal output (H:on)	80	SSEL	—	Pull up

■ BA4901A-V3 (IC911) : Regulator

1. Pin layout

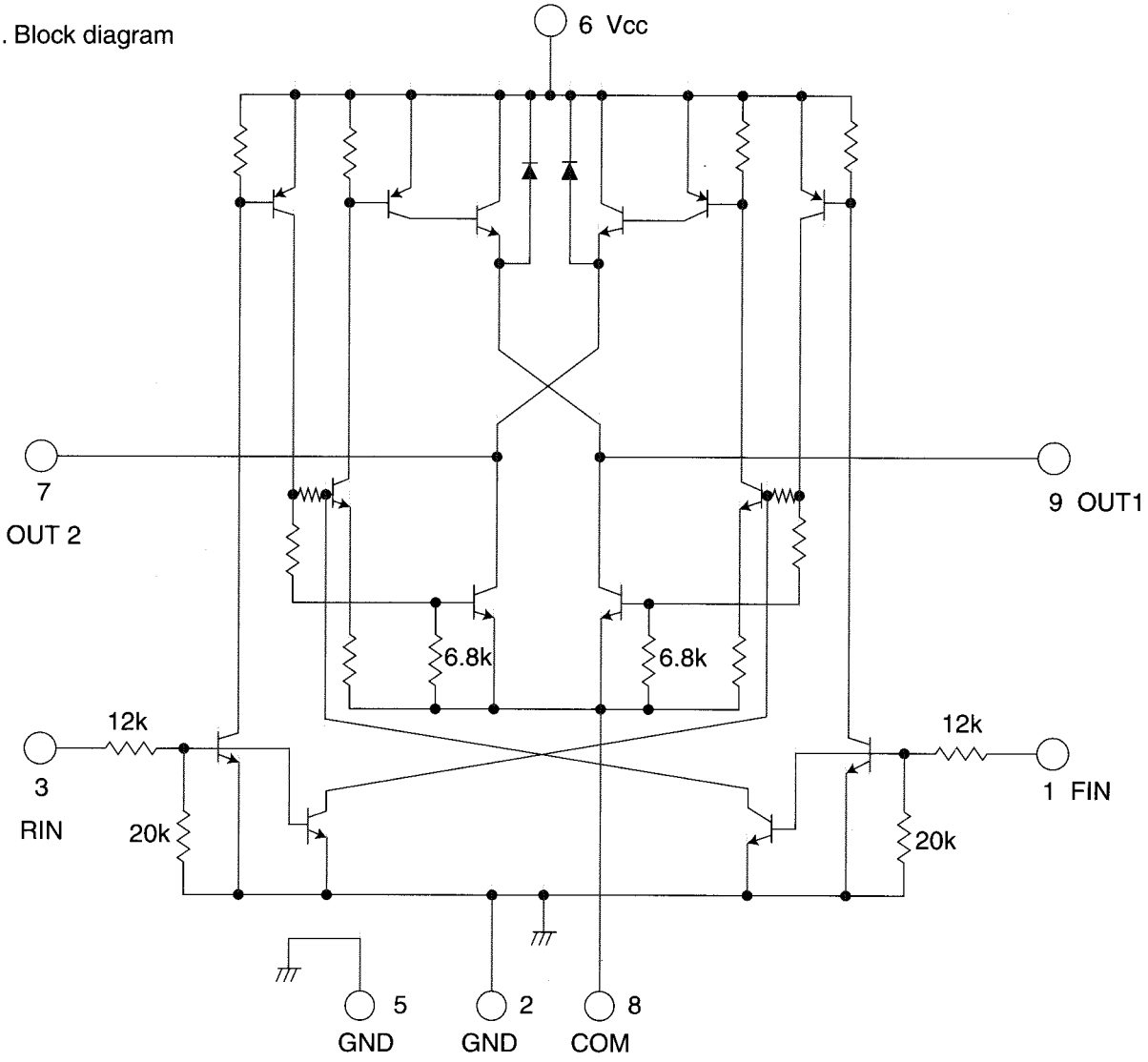


2.Pin Function

Pin No.	Symbol	Descriptions
1	VCC-C	To be connected with the collector of PNP.
2	VCC-B	To be connected with the base of PNP.
3	ACC5V	A voltage supply for ACC block.
4	ACC.IN	Control of the COMP output by inputting voltage.
5	VDD5V	Output voltage level is 5.7V, and max output current is 100mA. This voltage supply is for microcomputer. Whenever backup voltage supply is connected, the output keeps on running.
6	9V	This output voltage is 9.0V, and max output current is 500mA. This voltage supply for AUDIO.
7	CDBV	This output voltage is 8.0V, and max output current is 1A This voltage supply for CD.
8	CTRL	Output selector of CD, AUDIO, ILM and Vcc-B.
9	MEMORY.IN	To be connected with the BACKUP of car
10	10V	This output voltage is 10V, and max output current is 500mA. Output voltage is adjustable.
11	AJ	Putting a resistance between ILM and AJ or between AJ and GND males ILM output voltage adjustable.
12	GND	Connect to GND

■ BA6218 (IC362) : Motor driver

1. Block diagram

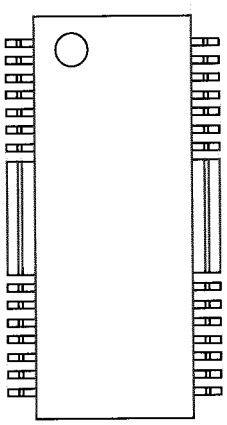


2. Function truth table

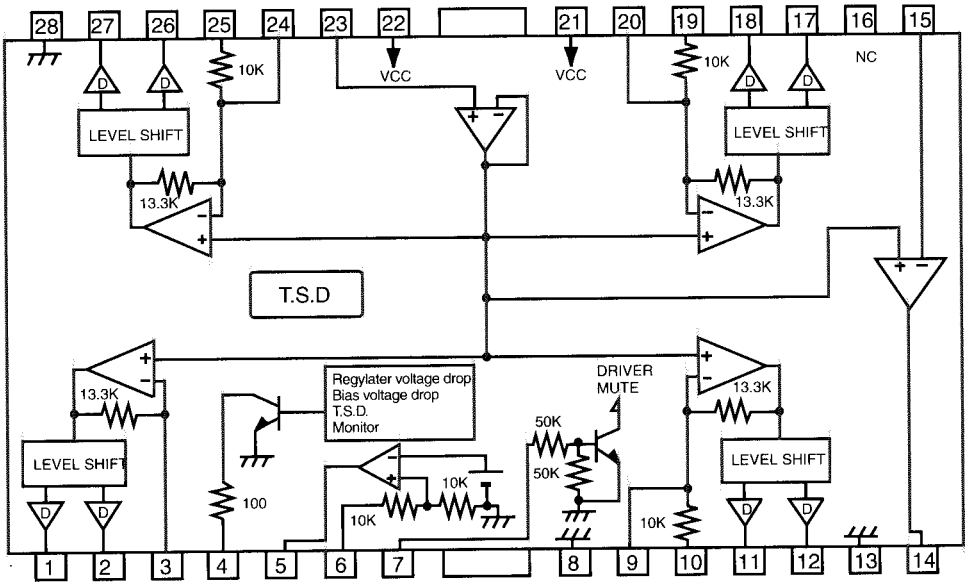
3Pin (IN)	1Pin (IN)	7Pin (OUT)	9Pin (OUT)
H	L	H	H
L	H	H	L
H	H	L	L
L	L	OPEN	OPEN

■ BA6898FP-X(IC361) : BTL Driver

1.Pin layout



2.Block diagram



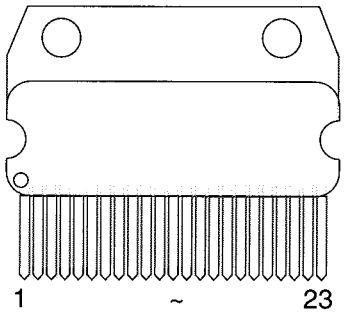
T.S.D.:Thermal shut down
D.BUF :Driver buffer

3.Function

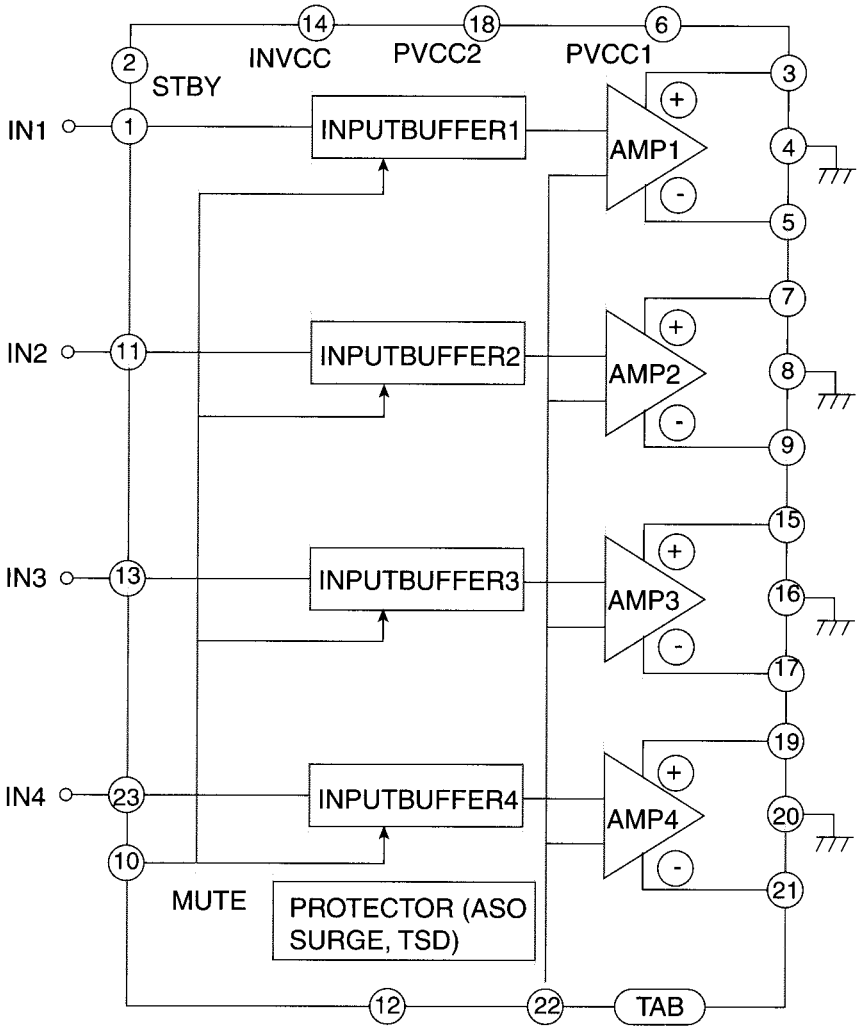
No.	Symbol	Function	No.	Symbol	Function
1	OUT1-B	Inverted output of CH1	15	OPIN-B	Inverting input for Op-amp
2	OUT1-A	Noninverted output of CH1	16	NC	NC
3	IN1	Gain adjustment of CH1	17	OUT3-B	Inverted output of CH3
4	RESET	Output for reset	18	OUT3-A	Noninverted output of CH3
5	REG-B	Connection with BASE of PNP Tr	19	IN3	Input for CH3
6	REGOUT	Output for regulater	20	IN3'	Gain adjustment of CH3
7	MUTE	Mute control	21	VCC	Vcc
8	GND	Ground	22	VCC	Vcc
9	IN2'	Gain adjustment of CH2	23	VREFIN	Input for reference voltage (bias)
10	IN2	Input for CH2	24	IN4'	Gain adjustment of CH4
11	OUT2-A	Noninverted output of CH2	25	IN4	Input for CH4
12	OUT2-B	Inverted output of CH2	26	OUT4-A	Noninverted output of CH4
13	GND	Substrate ground	27	OUT4-B	Inverted output of CH4
14	OPOUT	Output for OP-amp	28	GND	Substrate ground

■ HA13158A (IC901) : Power amp

1. Pin layout

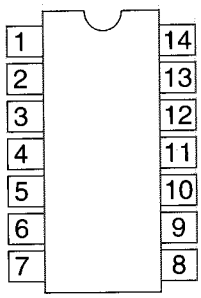


2. Block diagram



■ HD74HC126FP-X (IC931) : Buffer

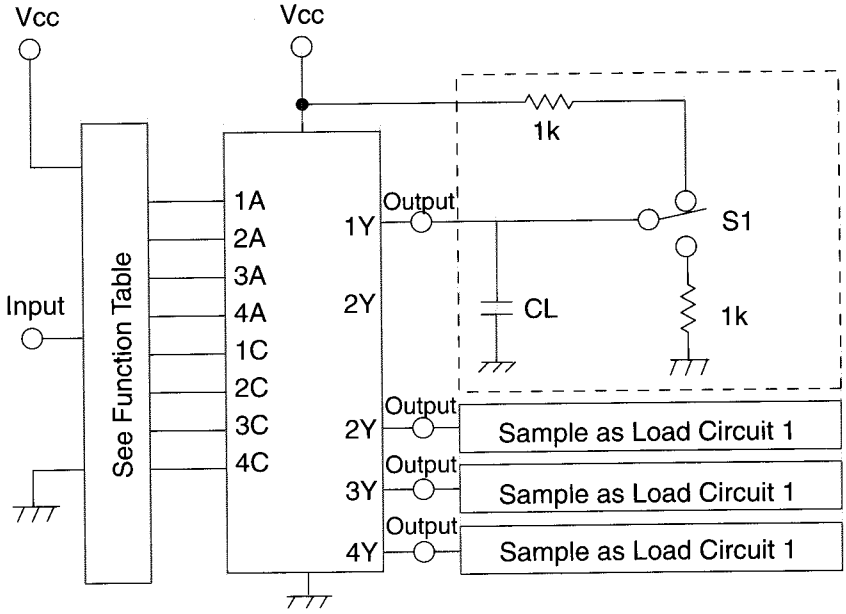
1. Pin layout



2. Function

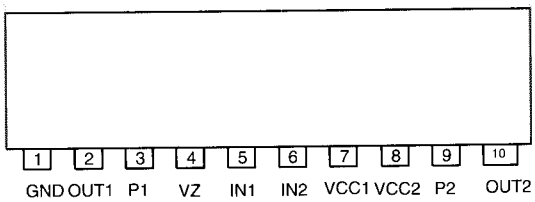
Inputs		Outputs
C	A	Y
L	X	Z
H	L	H
H	H	L

3. Block diagram



■ LB1641 (IC825) : DC Motor Driver

1. Pin Layout

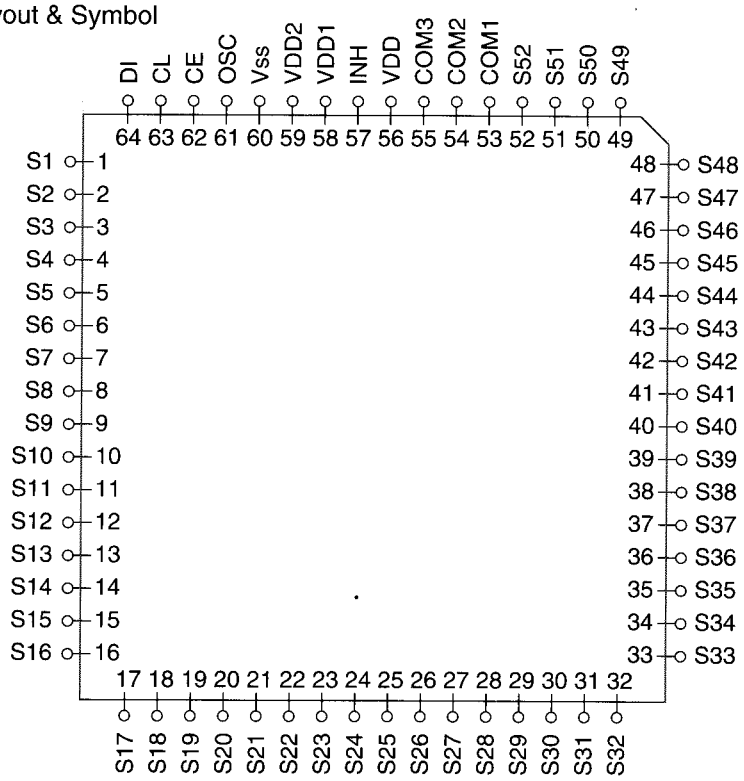


2. Pin Functions

Input		Output		Mode
IN1	IN2	OUT1	OUT2	
0	0	0	0	Brake
1	0	1	0	CLOCKWISE
0	1	0	1	COUNTER-CLOCKWISE
1	1	0	0	Brake

■ LC75823W (IC632) : LCD Driver

1. Pin Layout & Symbol

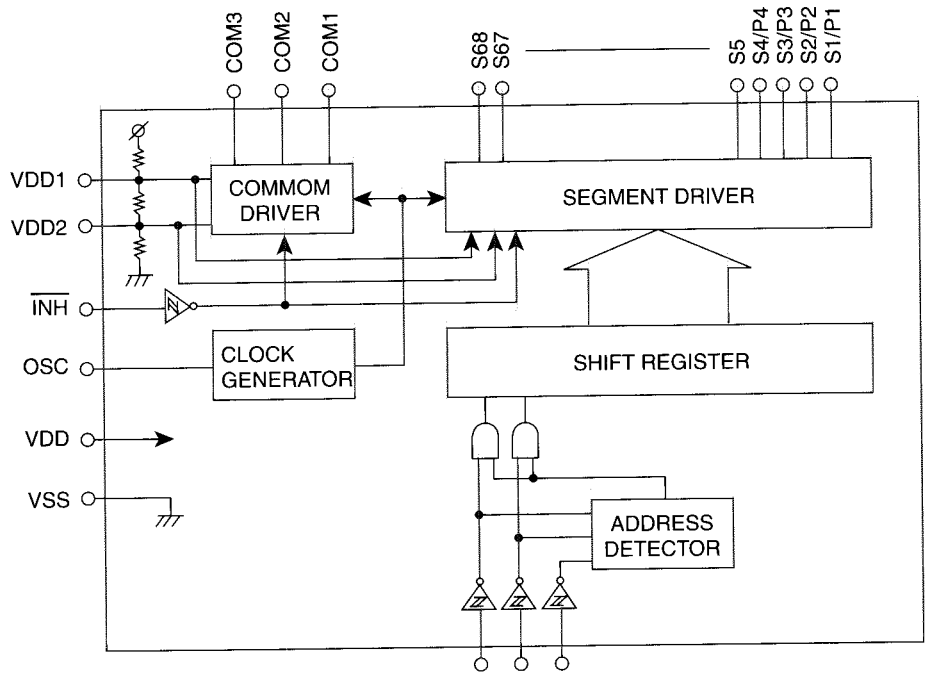


2. Pin Function

Pin No.	Symbol	I/O	Function
1 to 52	S1 to S52	O	Segment output pins used to display data transferred by serial data input.
53 to 55	COM1 to COM3	O	Common driver output pins. The frame frequency is given by : t0=(fosc/384)Hz.
56	VDD	--	Power supply connection. Provide a voltage of between 4.5 and 6.0V.
57	$\overline{INH}$	I	Display turning off input pin. $\overline{INT}$="L" (Vss) ----- off (S1 to S52, COM1 to COM3="L" $\overline{INT}$="H" (VDD)----- on Serial data can be transferred in display off mode.
58	VDDD1	I	Used for applying the LCD drive 2/3 bias voltage externally. Must be connected to VDD2 when a 1/2 bias drive scheme is used.
59	VDD2	I	Used for applying the LCD drive 1/3 bias voltage externally. Must be connected to VDD1 when a 1/2 bias drive scheme is used.
60	Vss	--	Power supply connection. Connect to GND.
61	OSC	I/O	Oscillator connection. An oscillator circuit is formed by connecting an external resistor and capacitor at this pin.
62 63 64	CE CL DI	I	Serial data interface connection to the controller. CE : Chip enable CL : Sync clock DI : Transfer data

■ LC75873NW (IC627) : LCD Driver

1.Block Diagram

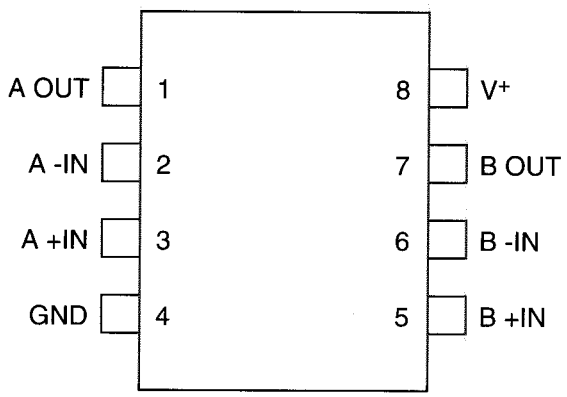


2.Pin Functions

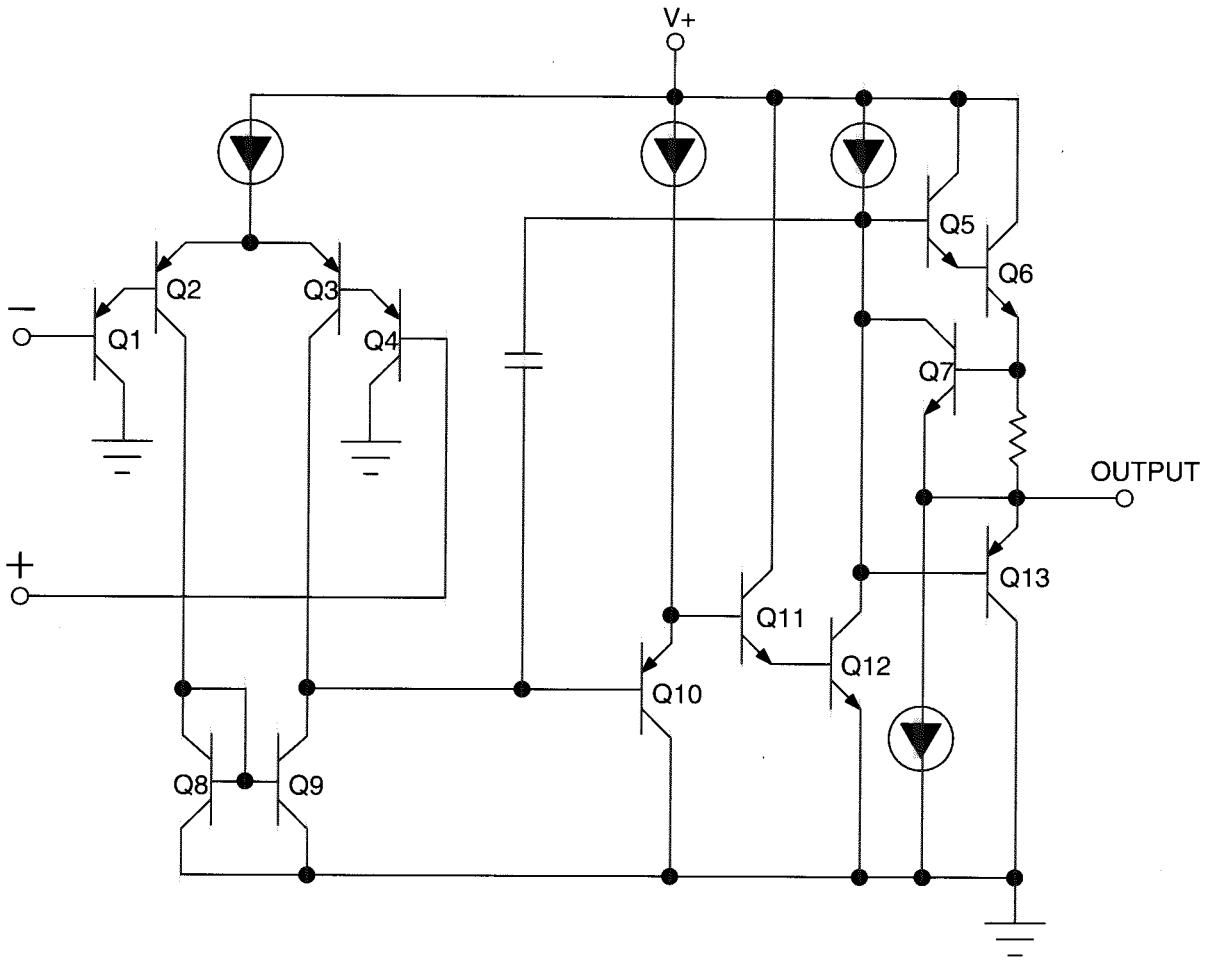
Pin No.	Symbol	I/O	Description
1~66	S3~S68	O	Segment Output.
67~69	COM1~3	O	Common Driver Output.
70	VDD	-	Power Supply Connection.
71	VDD1	I	Used for applying the LCD drive 2/3 bias voltage externally. Must be connected to VDD2 when a 1/2 bias drive scheme in used.
72	VDD2	I	Used for applying the LCD drive 1/3 bias voltage externally. Must be connected to VDD1 when a 1/2 bias drive scheme in used.
73	VSS	-	Power supply connection.
74	OSC	I/O	Oscillator connection. An oscillator circuit is formed by connecting an external resistor and capacitor to this pin.
75	INH	I	Display off control input.
76	$\overline{CE}$	I	Chip enable input.
77	CLOCK	I	Synchronization clock input.
78	DI	I	Serial data input.
79	DIMMER	O	DIMMER Control signal output.
80	NC	-	Non connect.

■ NJM2904M-W (IC831) : Ope amp

1.Pin layout

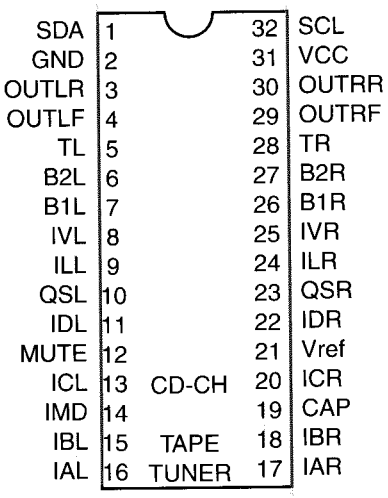


2.Block diagram

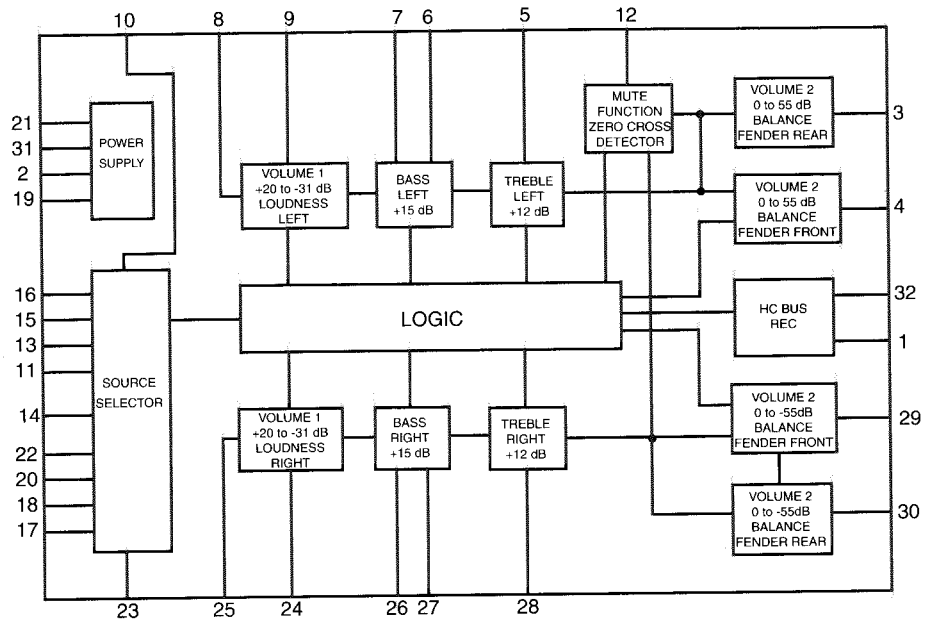


■ TEA6320T-X (IC690) : E.volume

1.Pin Layout



2.Block Diagram

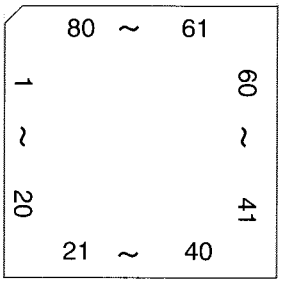


3.Pin Functions

Pin No.	Symbol	I/O	Functions	Pin No.	Symbol	I/O	Functions
1	SDA	I/O	Serial data input/output.	17	IAR	I	Input A right source.
2	GND	-	Ground.	18	IBR	I	Input B right source.
3	OUTLR	O	output left rear.	19	CAP	-	Electronic filtering for supply.
4	OUTLF	O	output left front.	20	ICR	I	Input C right source.
5	TL	I	Treble control capacitor left channel or input from an external equalizer.	21	Vref	-	Reference voltage (0.5Vcc)
6	B2L	-	Bass control capacitor left channel or output to an external equalizer.	22	IDR	-	Not used
7	B1L	-	Bass control capacitor left channel.	23	QSR	O	Output source selector right channel.
8	IVL	I	Input volume 1. left control part.	24	ILR	I	Input loudness right channel.
9	ILL	I	Input loudness. left control part.	25	IVR	I	Input volume 1. right control part.
10	QSL	O	Output source selector. left channel.	26	B1R	-	Bass control capacitor right channel
11	IDL	-	Not used	27	B2R	O	Bass control capacitor right channel or output to an external equalizer.
12	MUTE	-	Not used	28	TR	I	Treble control capacitor right channel or input from an external equalizer.
13	ICL	I	Input C left source.	29	OUTRF	O	Output right front.
14	IMO	-	Not used	30	OUTRR	O	Output right rear.
15	IBL	I	Input B left source.	31	Vcc	-	Supply voltage.
16	IAL	I	Input A left source.	32	SCL	I	Serial clock input.

■ UPD178006AGC533 (IC701): Main micon

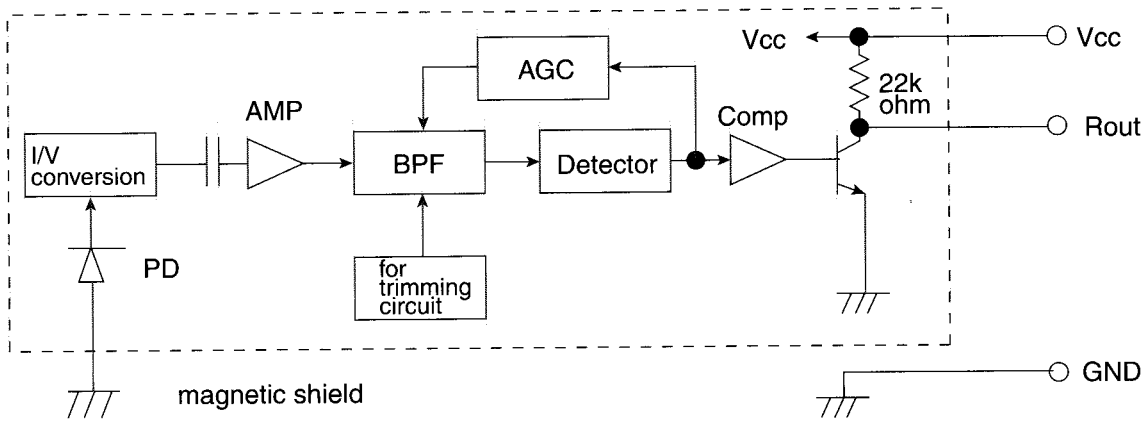
1.Pin layout



2.Function

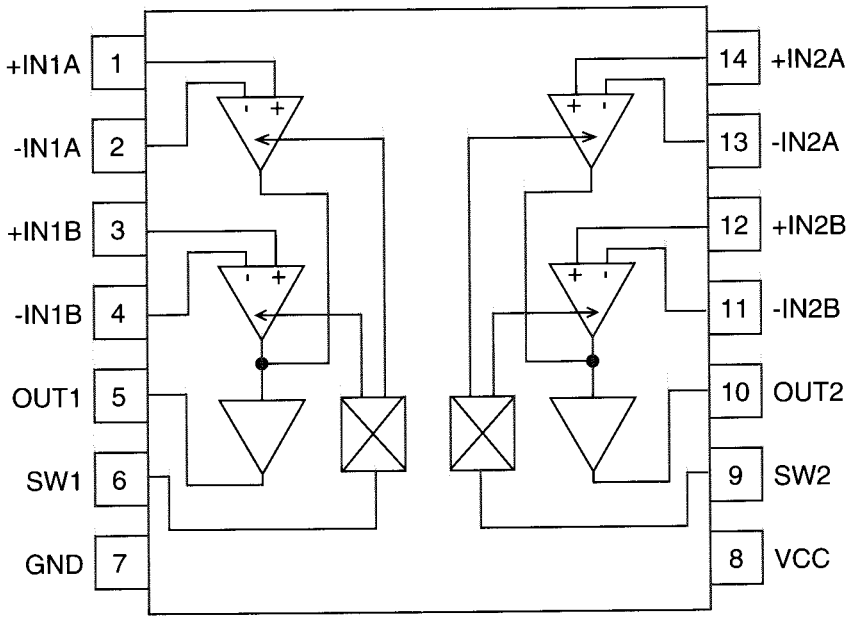
Pin NO.	Symbol	I/O	Function	Pin NO.	Symbol	I/O	Function
1	KEY0	I	KEY0 Input terminal	41	K0	O	Terminal for test
2	KEY1	I	KEY1Input terminal	42	NC	-	Non connected
3	KEY2	I	KEY2 Input terminal	43	NC	-	Non connected
4	KEY3	I	KEY3 Input terminal	44	MS IN	I	MS signal input terminal
5	S METER	I	S.meter(electric fiend strength) voltage input terminal	45	MUTE	O	Mute output terminal
6	ANA IN	I	Level input terminal of spectrum analyzer	46	STANDBY	I	Standby switch
7	J-BUS SI	I	Data input of J-BUS communication	47	TAPE END	I	Tape end detection input terminal
8	J-BUS SO	O	Data output of J-BUS communication	48	MODE	I	Mode position detection input terminal
9	J-BUS SCK	I/O	Clock output for J-BUS communication	49	F/R	I	Forward/reverse detection input terminal
10	J-BUS I/O	O	I/O seitch signal output of J-BUS communication	50	FF/REW	O	Input sensitivity switch control output at MS
11	AD SEL	O	A/D switch signal output	51	KICK	O	Driving voltage control terminal of sub-motor
12	NC	-	Non connected	52	MOTER	O	Main motor control output terminal
13	E.VOL SO	O	Data output terminal to electronic volume	53	S MO+	O	<Sub-motor (+)> control output terminal
14	E.VOL SCK	I/O	Clock output for communication to electronic volume	54	S MO-	O	<Sub-motor (-)> control output terminal
15	RESET OUT	O	Reset output terminal to sub-microcomputer	55	DOLBY	O	Dolby ON/OFF control output terminal
16	CFL BRIGHT	O	Blinking CFL tube and control unconnection of brightness	56	VOL A	I	Rotary VOL . Signal A input terminal
17	NC	-	Non connected	57	VOL B	I	Rotary VOL . Signal B input terminal
18	POWER ON	O	H output at power ON	58	DIMMER IN	I	Dimmer signal input terminal
19	ACC ON	O	H output when ACC DET become H from L	59	BEEP	O	BEEP output terminal
20	TUNER	O	H output at TUNER ON	60	SELA	O	Frequency switch output terminal of spectrum analyzer
21	GND PORT	-	Connect to ground (for port)	61	SELB	O	Frequency switch output terminal of spectrum analyzer
22	Vdd PORT	-	Connect to VDD (forport)	62	SELC	O	Frequency switch output terminal of spectrum analyzer
23	NC	-	Non connected	63	LCD CE2	O	Chip enable output terminal to LCD driver
24	SEEK/STOP	O	L when H stops at aute seek	64	LCD CE1	O	Chip enable output terminal to LCD driver
25	MONO	O	Compelling monaural output terminal unconnection	65	LCD DATA	O	Data output terminal to LCD driver
26	NC	-	Non connected	66	LCD SCK	O	Clock output terminal to LCD driver
27	FM/AM	O	FM/AM mode switch signal output terminal	67	J-BUS INT	I	Interruption signal detection terminal from J-BUS communication
28	NC	-	Non connected	68	REMOCON	I	Interruption signal detection terminal from remote control
29	IF COUNT	I	FM/AM standard frequency detection ternimal	69	ACC DET	I	ACC power supply detection
30	VddPLL	-	Connects to Vdd (power supply terminal of PLL)	70	MEMORY DET	I	Backup power supply detection terminal
31	OSC IN	I	FM/AM station sending title input terminal	71	REMOTE IN	I	Remote system control signal input terminal
32	NC	-	Non connected	72	TAPE IN	I	Cassette in switch
33	GNDPLL	-	Connects to the ground (for PLL)	73	NC	-	Non connected
34	EOO	O	PLL error.signal output terminal	74	REGCPU	-	Connects to the ground
35	NC	-	Non connected	75	GND	-	ground
36	IC	-	Connects to ground	76	X2	-	Connects to the crystal oscillation terminal (output)
37	SD/ST	I	Station detection/stereo signal input terminal	77	X1	-	Connects to the crystal oscillation terminal (input)
38	AREA_SET1	O	Frequency area selection	78	REGOSC	-	Connects to the ground
39	AREA_SET2	O	Frequency area selection	79	Vdd	-	Power supply terminal (Vdd)
40	K1	O	Port for test	80	RESET	I	System reset input terminal

■ RPM6938-SV4 (IC688) : Remote control receiver

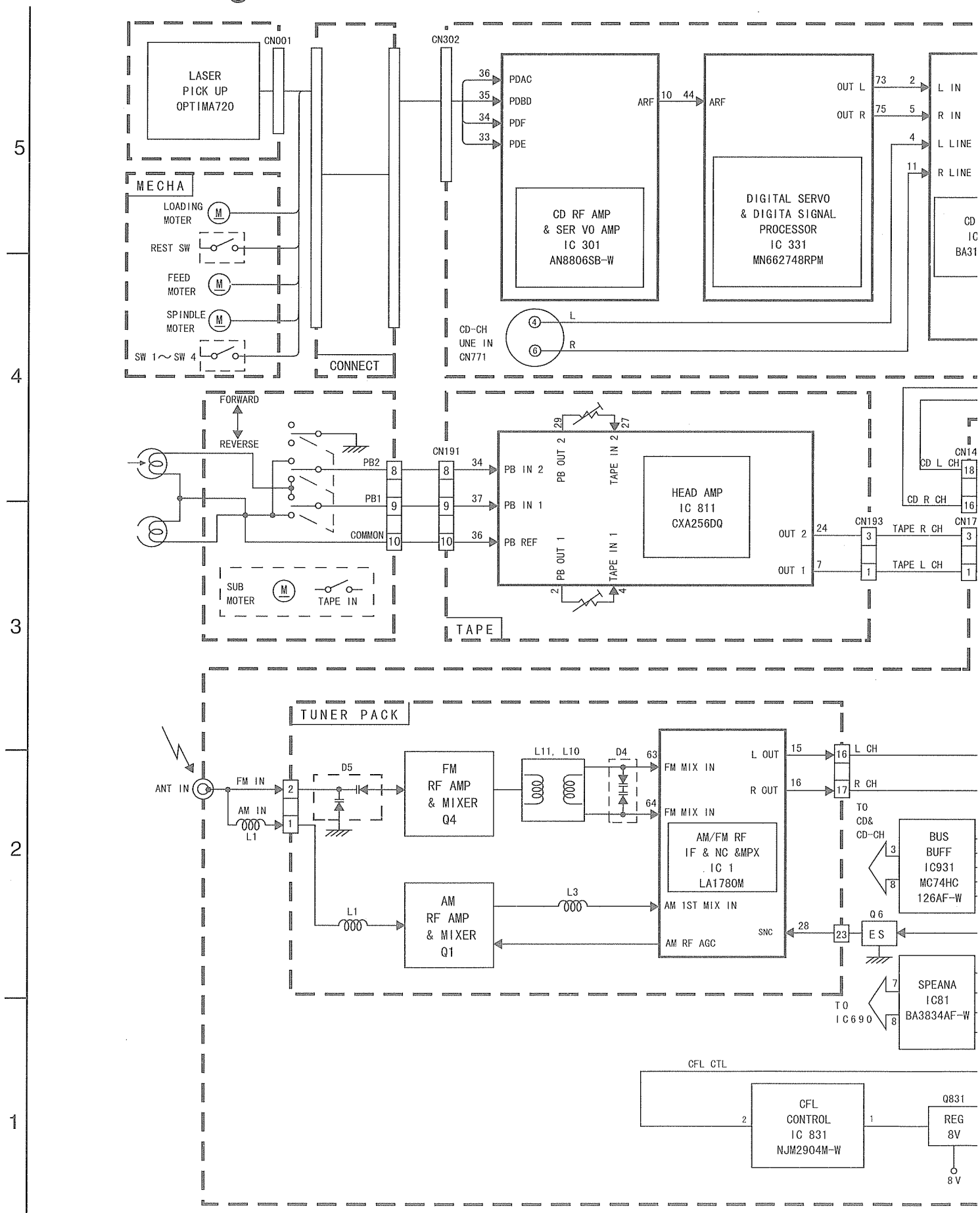


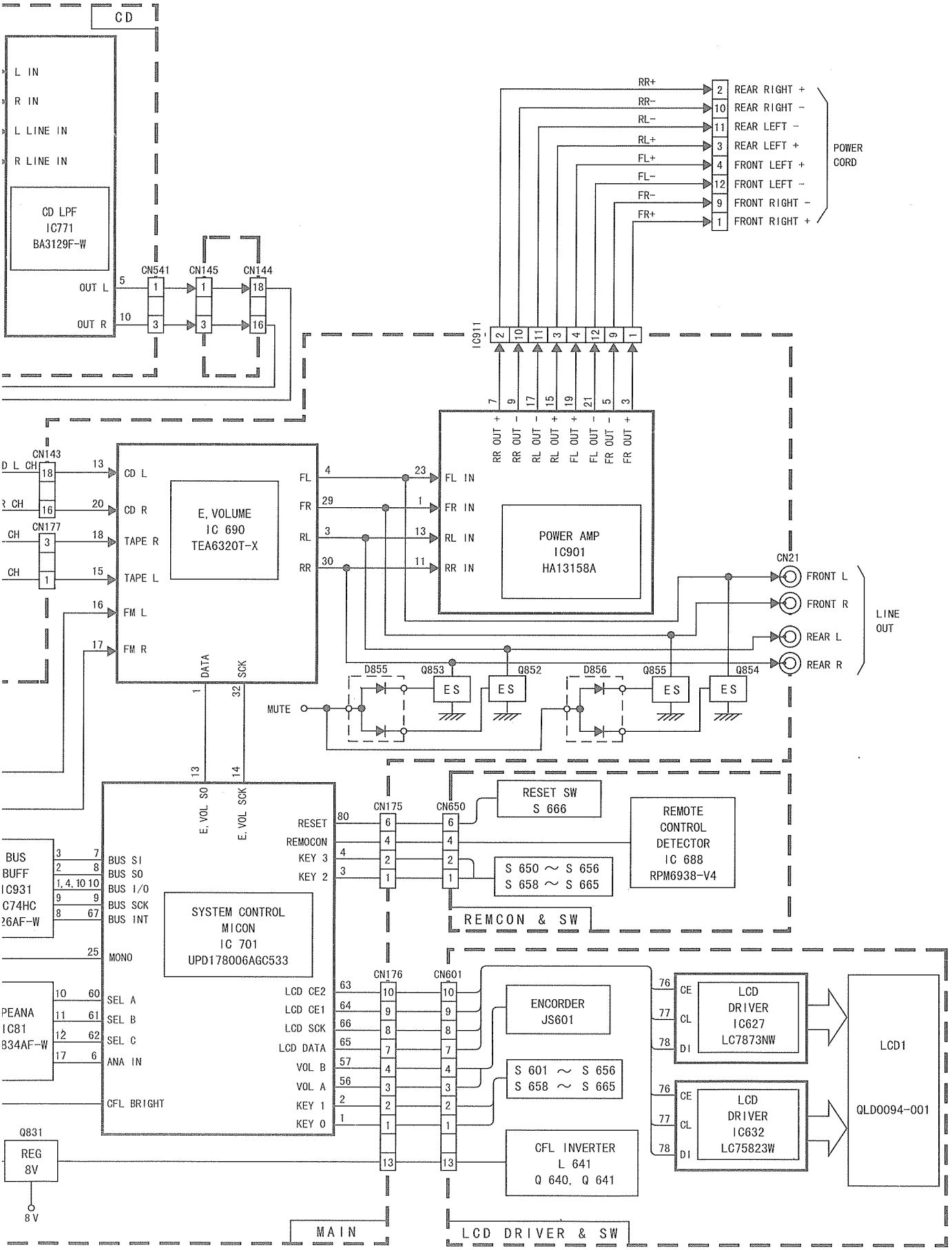
■ BA3129F-W (IC771) : Selector

1.Pin layout & Block diagram



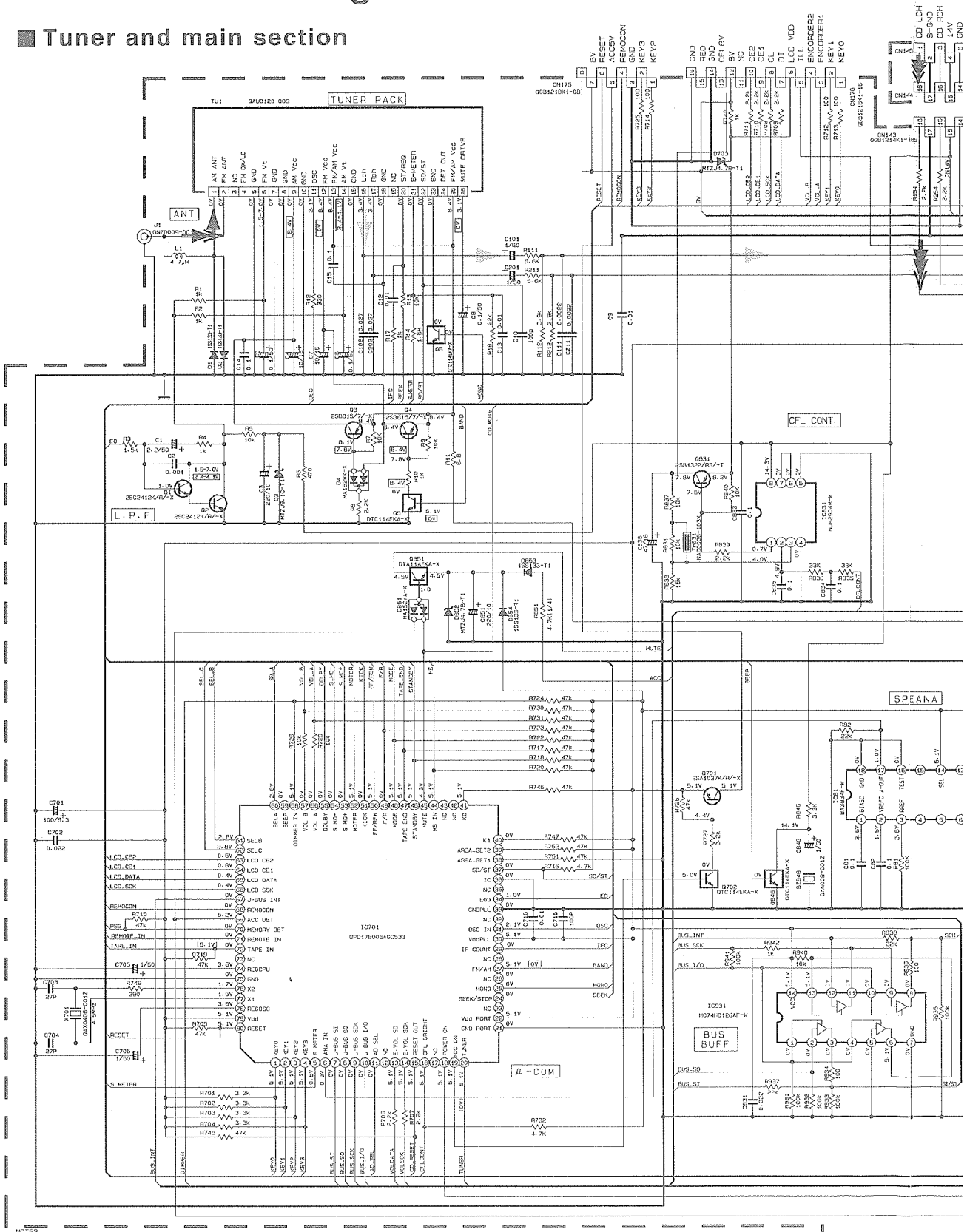
Block diagram




CD
L IN
R IN
L LINE IN
R LINE IN
CD LPF
IC771
BA3129F-W
OUT L
OUT R
CN541
CN145
CN144
RR+
RR−
RL−
RL+
FL+
FL−
FR−
FR+
REAR RIGHT +
REAR RIGHT −
REAR LEFT −
REAR LEFT +
FRONT LEFT +
FRONT LEFT −
FRONT RIGHT −
FRONT RIGHT +
POWER CORD
IC911
RR OUT +
RR OUT −
RL OUT −
RL OUT +
FL OUT +
FL OUT −
FR OUT −
FR OUT +
CN143
CD L
CD R
TAPE R
TAPE L
FM L
FM R
E. VOLUME
IC 690
TEA6320T-X
FL
FR
RL
RR
FL IN
FR IN
RL IN
RR IN
POWER AMP
IC901
HA13158A
CN21
FRONT L
FRONT R
REAR L
REAR R
LINE OUT
DATA
SCK
MUTE
D855
D856
Q853
Q852
Q855
Q854
ES
E. VOL SO
E. VOL SCK
RESET
REMOCON
KEY 3
KEY 2
CN175
CN650
RESET SW
S 666
REMOTE CONTROL DETECTOR
IC 688
RPM6938-V4
S 650 ～ S 656
S 658 ～ S 665
REMCON & SW
BUS SI
BUS SO
BUS I/O
BUS SCK
BUS INT
MONO
SEL A
SEL B
SEL C
ANA IN
CFL BRIGHT
SYSTEM CONTROL
MICON
IC 701
UPD178006AGC533
LCD CE2
LCD CE1
LCD SCK
LCD DATA
VOL B
VOL A
KEY 1
KEY 0
CN176
CN601
ENCORDER
JS601
S 601 ～ S 656
S 658 ～ S 665
CFL INVERTER
L 641
Q 640, Q 641
LCD DRIVER
IC627
LC7873NW
LCD DRIVER
IC632
LC75823W
CE
CL
DI
LCD1
QLD0094-001
Q831
REG
8V
8 V
MAIN
LCD DRIVER & SW

Standard schematic diagrams

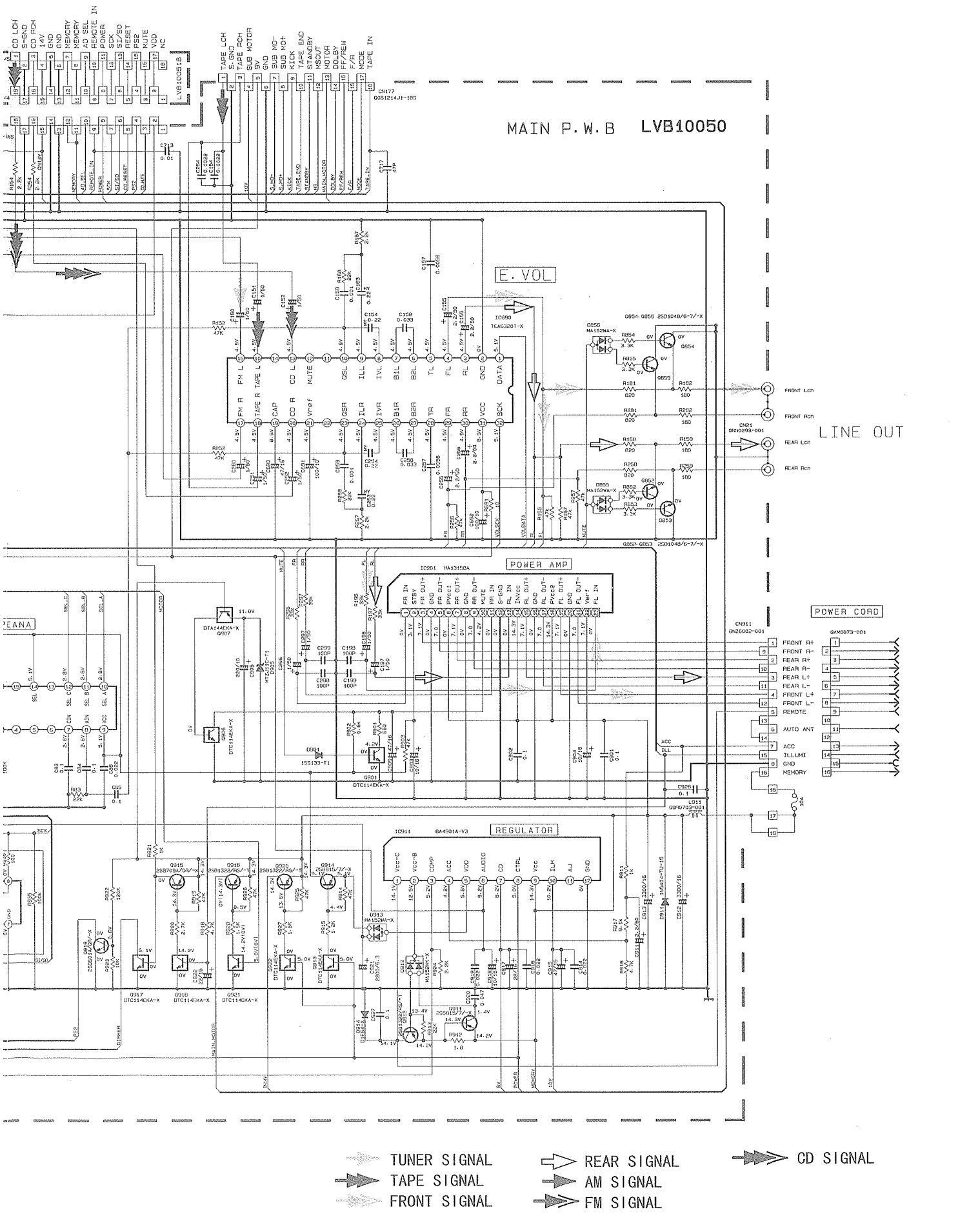
■ Tuner and main section



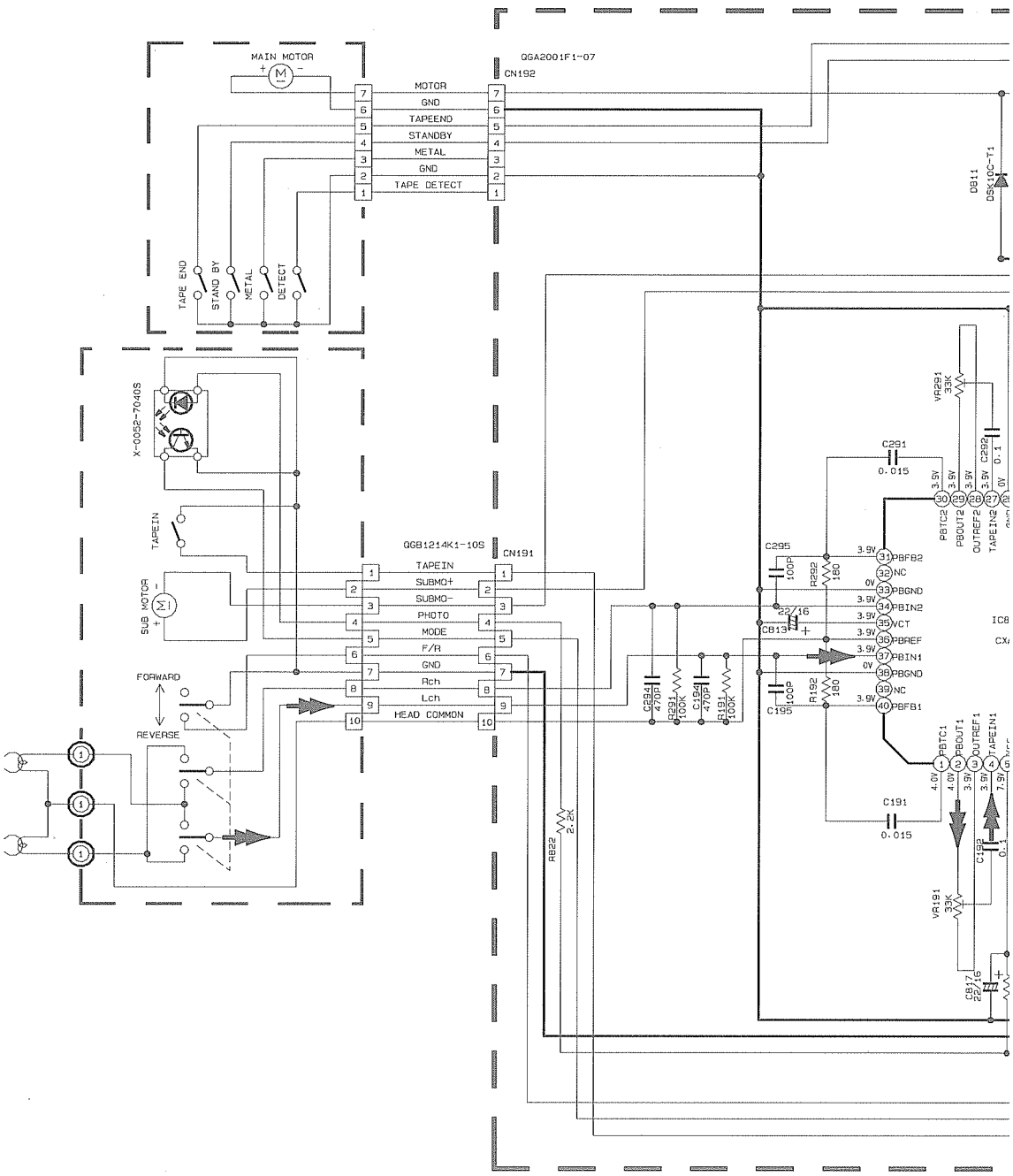
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION ---- FM MODE, [ ] AM MODE, ( ) TAPE MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133.
   ±5% 50V ±5% MYLAR CAPACITOR

	10K / 10K	DTC114EKA
	10K / 10K	DTA114EKA
	47K / 47K	DTA144EKA

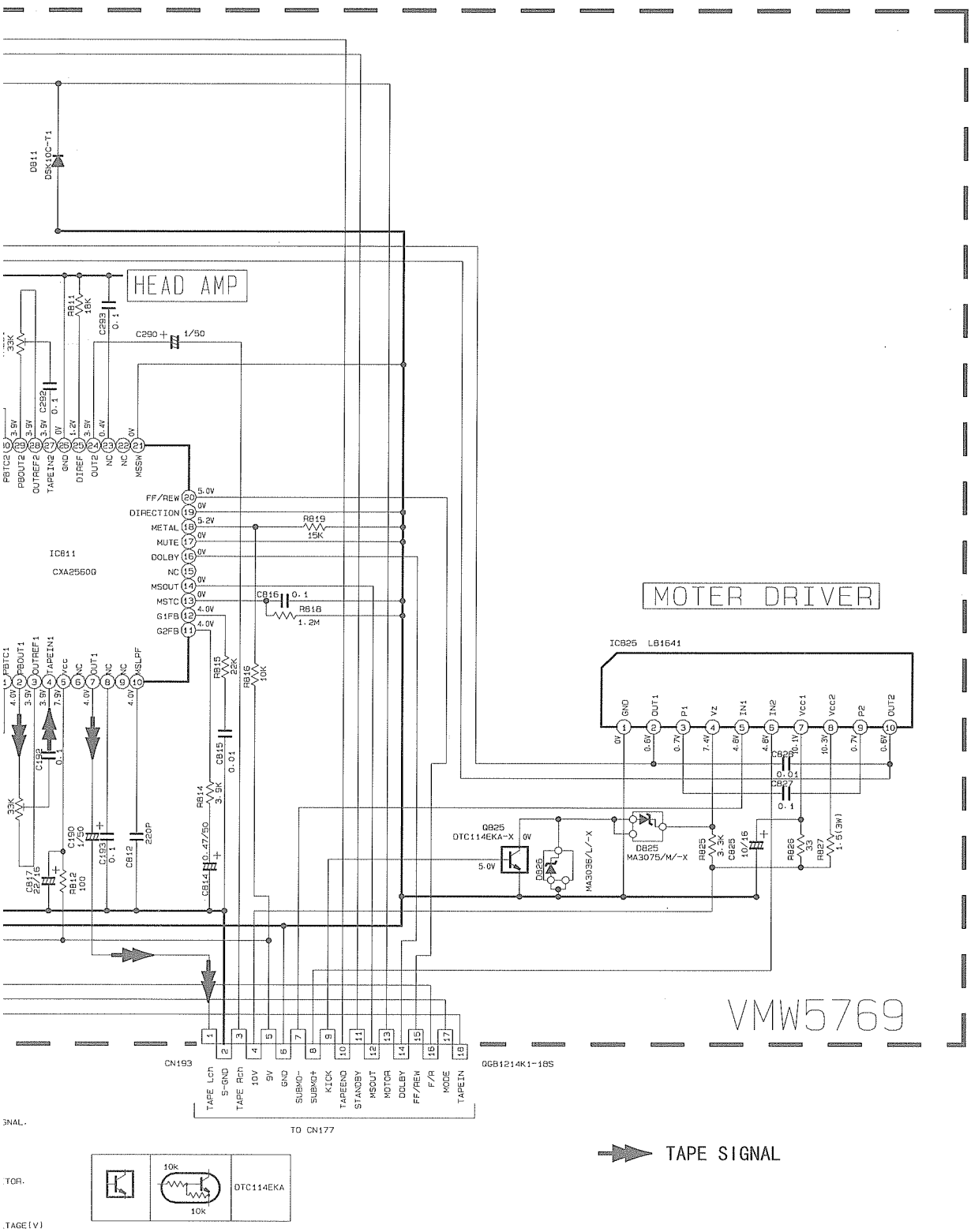

MAIN P.W.B LVB10050
E.VOL
POWER AMP
REGULATOR
LINE OUT
POWER CORD
TUNER SIGNAL
TAPE SIGNAL
FRONT SIGNAL
REAR SIGNAL
AM SIGNAL
FM SIGNAL
CD SIGNAL
D
E
F
G
H

Head amp section

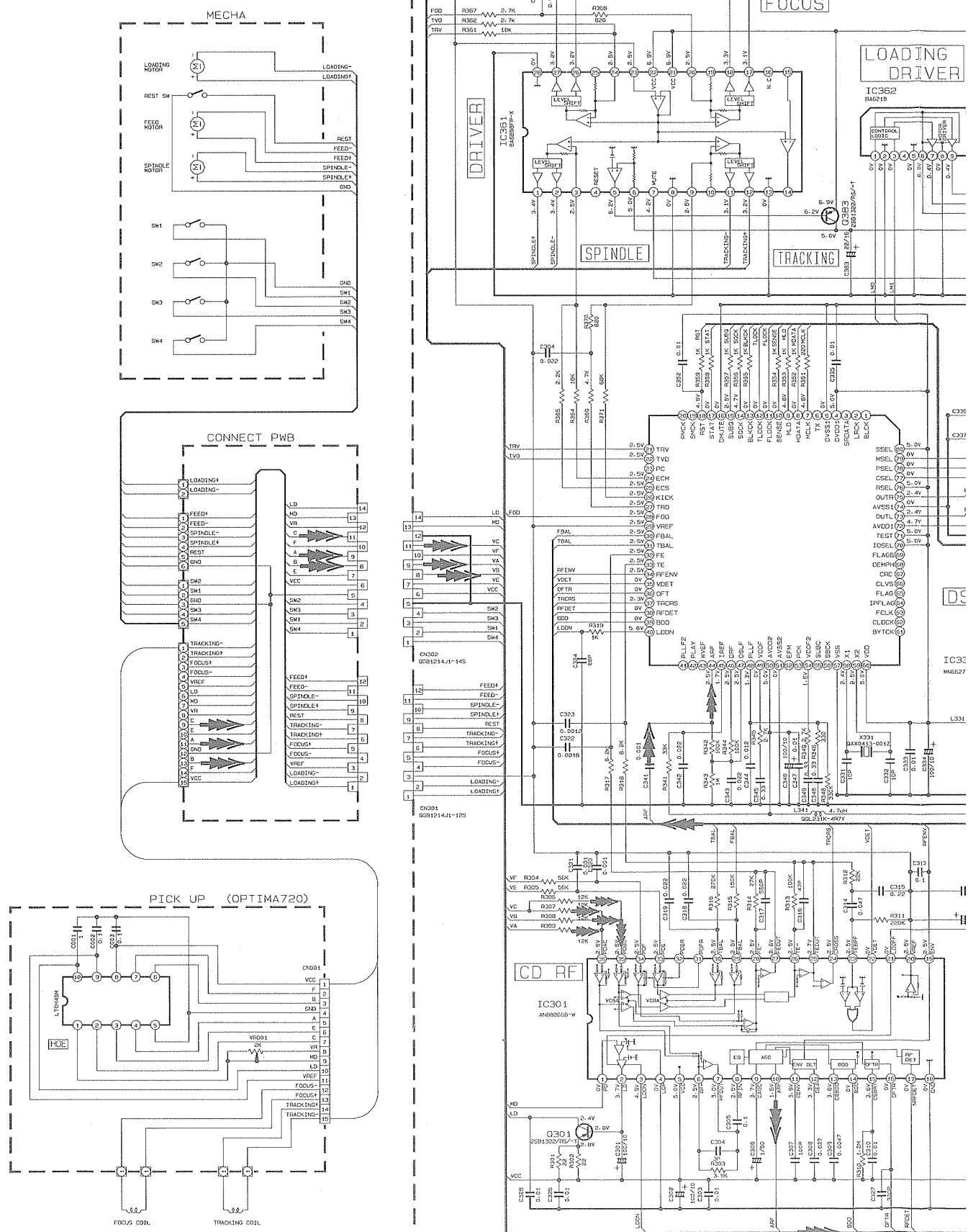


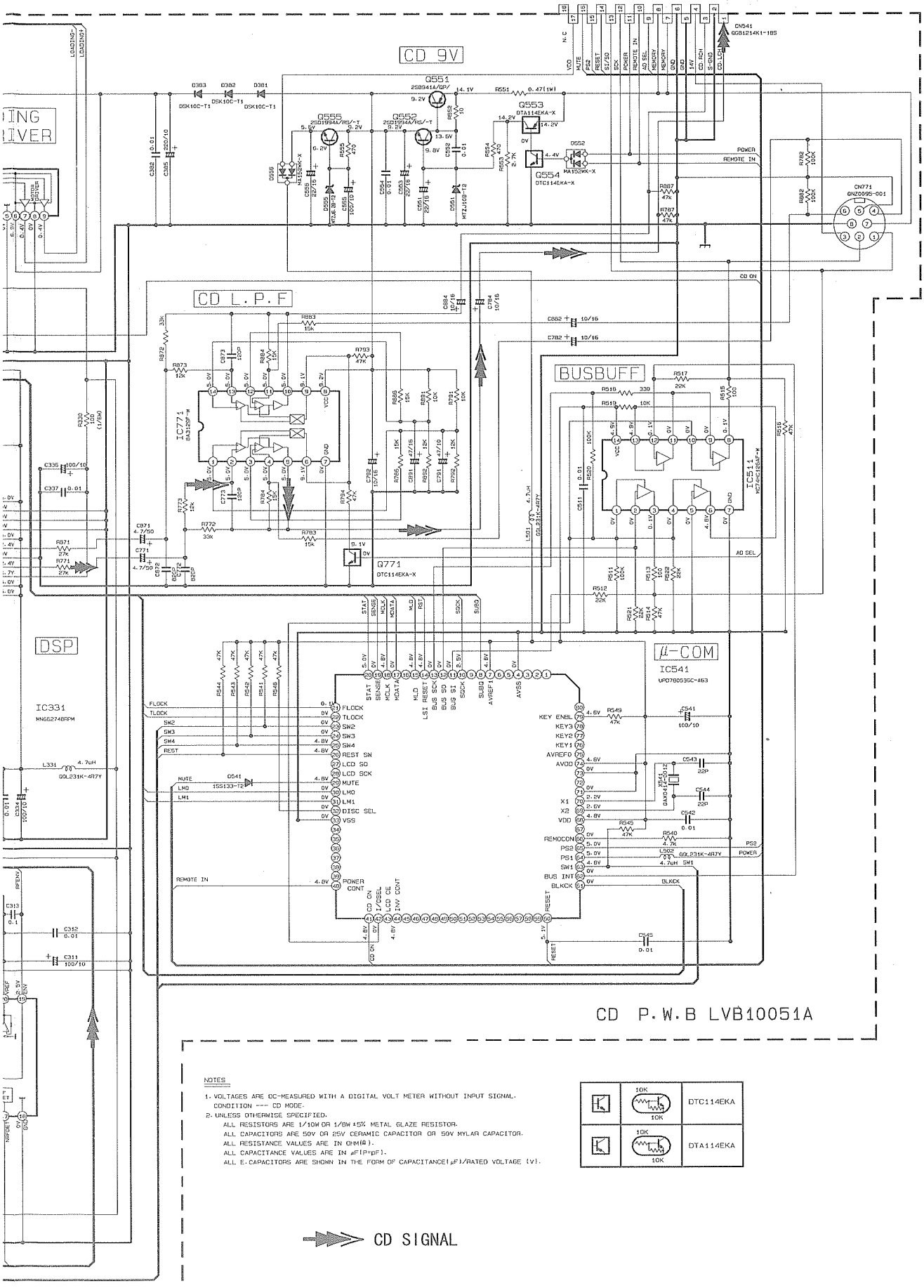
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION----TAPE MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W OR 1/8W ± 5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)


HEAD AMP
MOTER DRIVER
IC811
CXA2560Q
IC825 LB1641
VMW5769
CN193
TO CN177
TAPE SIGNAL
DTC114EKA

CD servo control section





NOTES

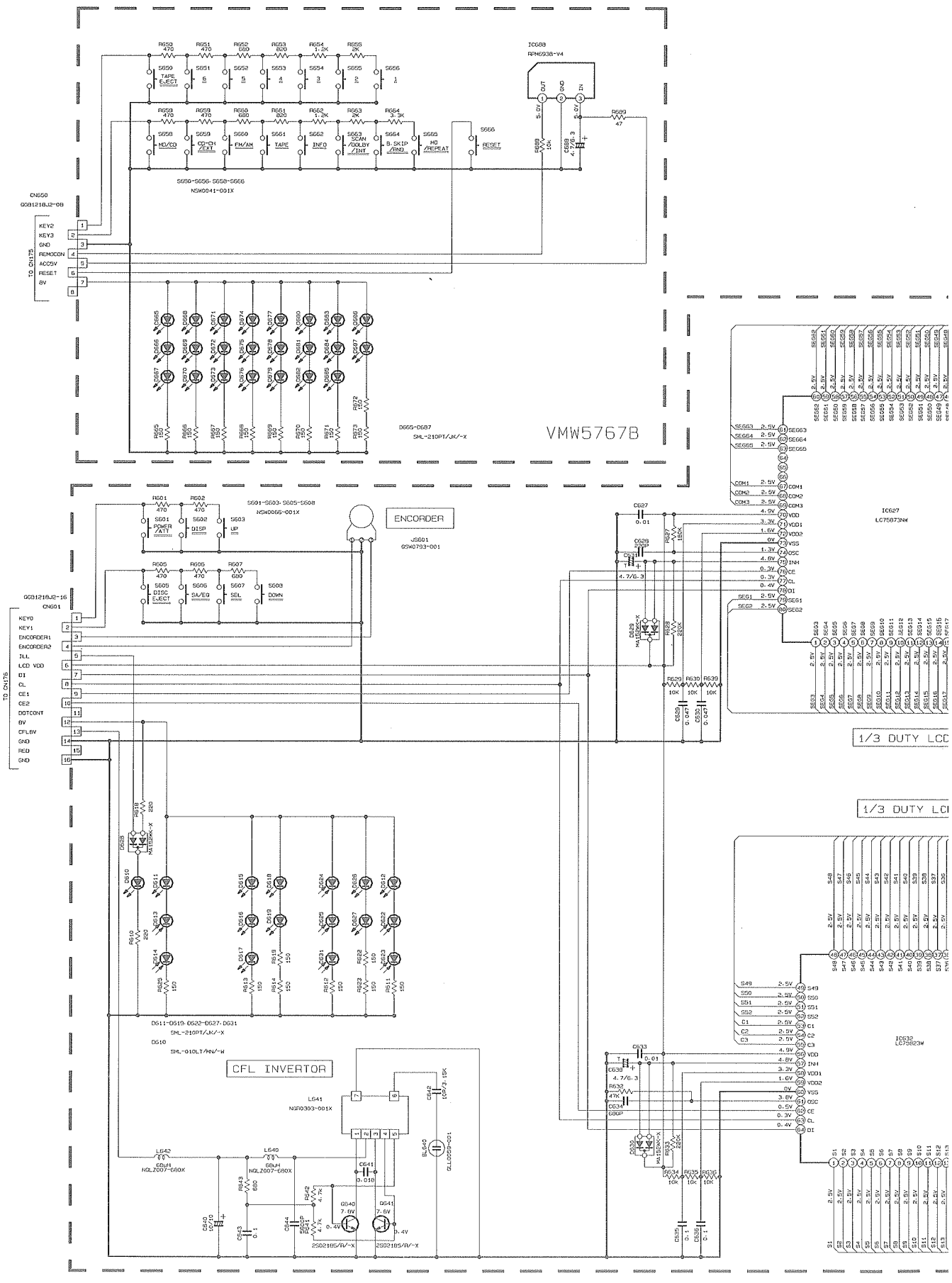
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION ---- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

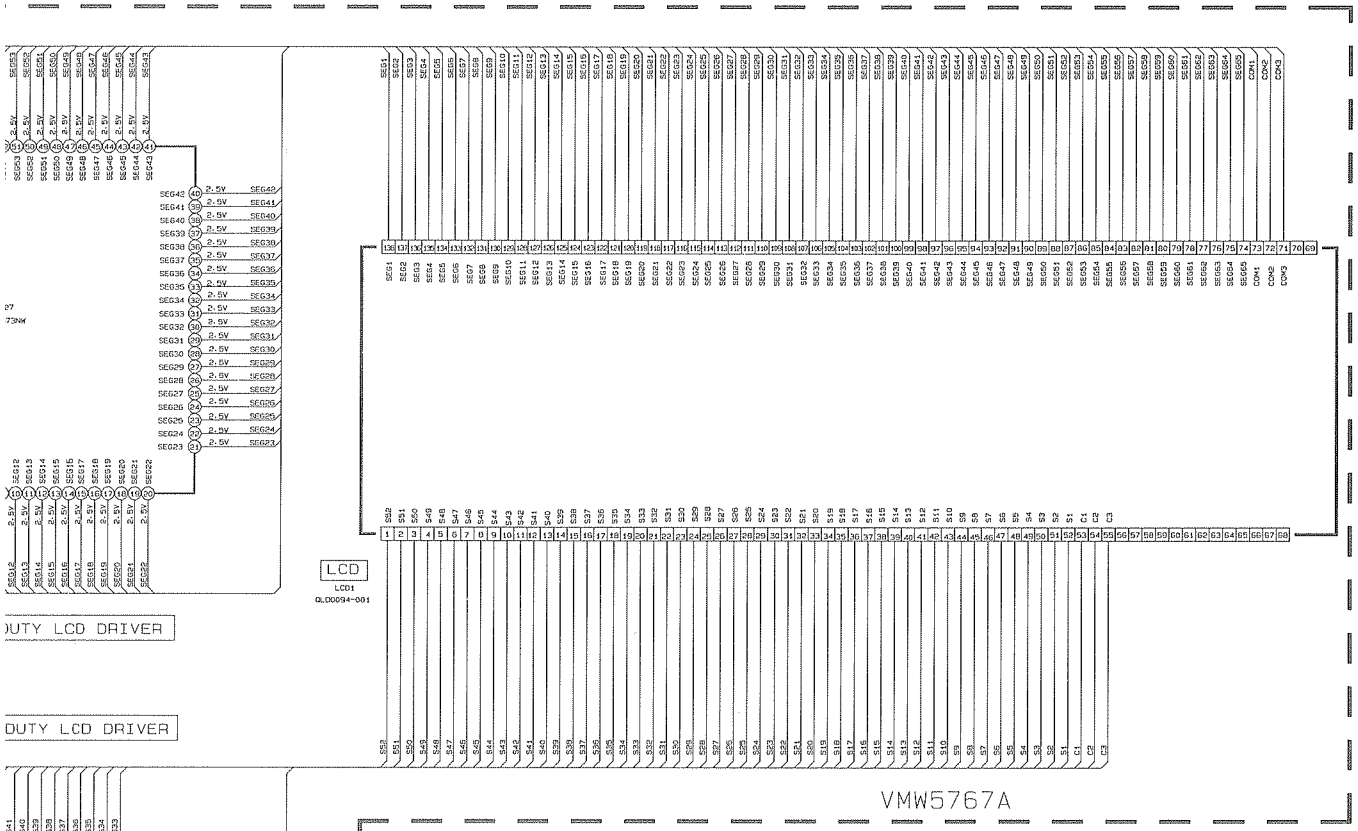
	10K / 10K	DTC114EKA
	10K / 10K	DTA114EKA

CD SIGNAL

D E F G H

■ LCD and operation switch section



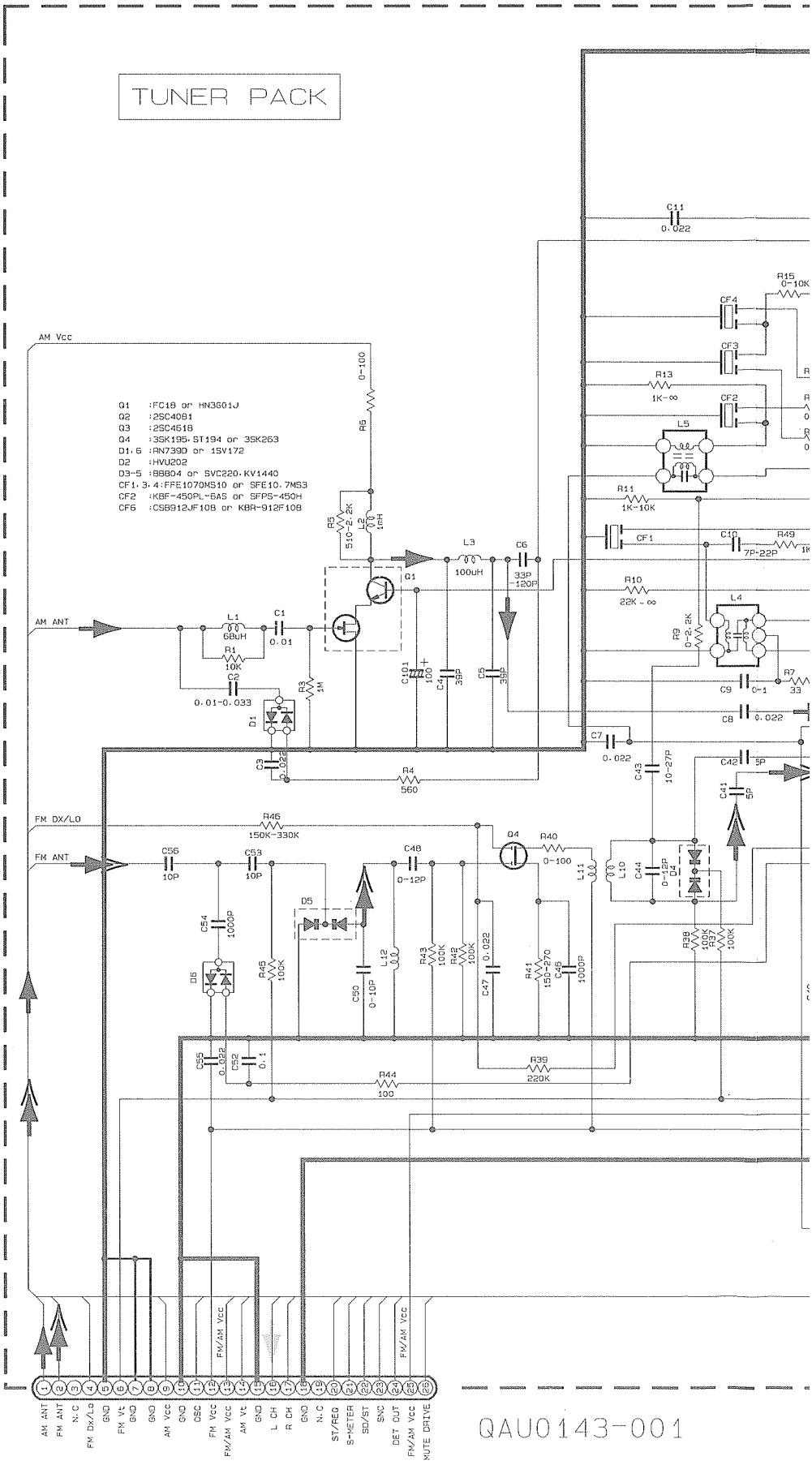


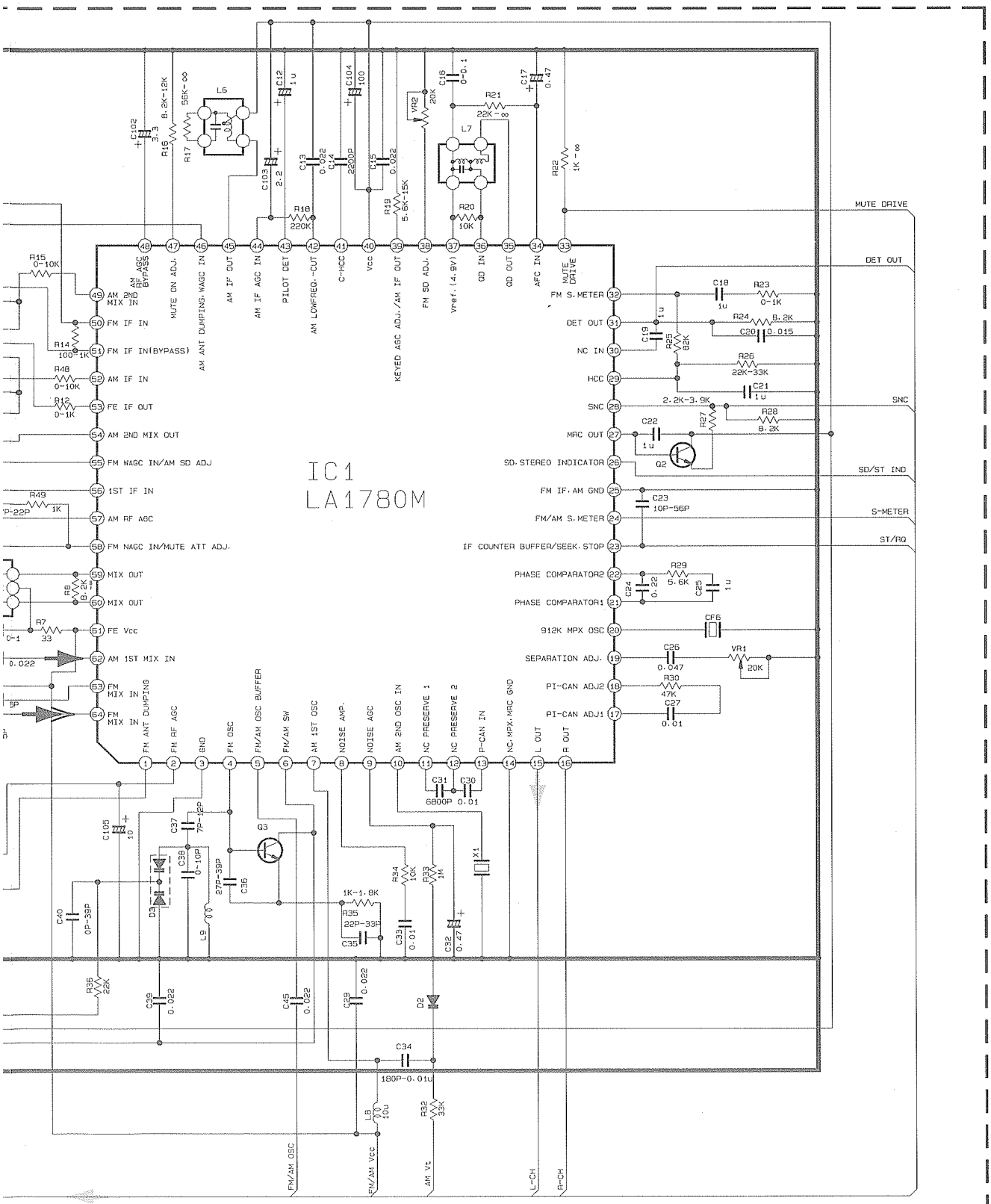
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- FM MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

   T TANTALUM ELECTROLYTIC CAPACITOR

Tuner pack section





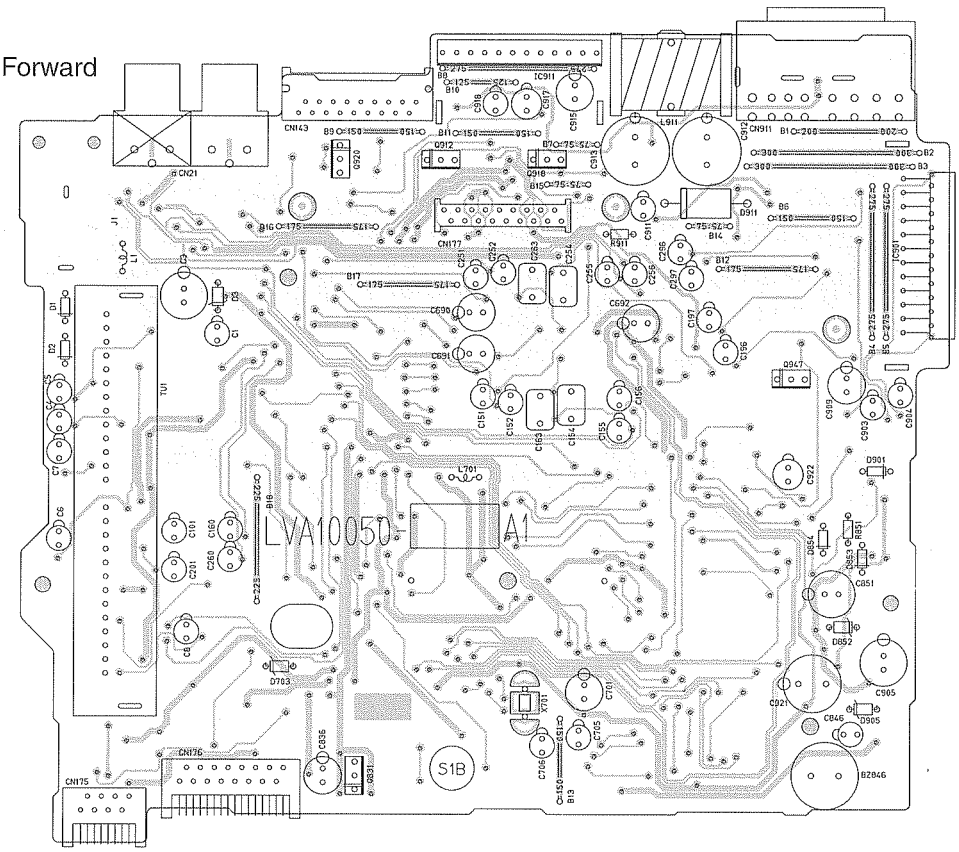
TUNER SIGNAL
AM SIGNAL
FM SIGNAL

D E F G H

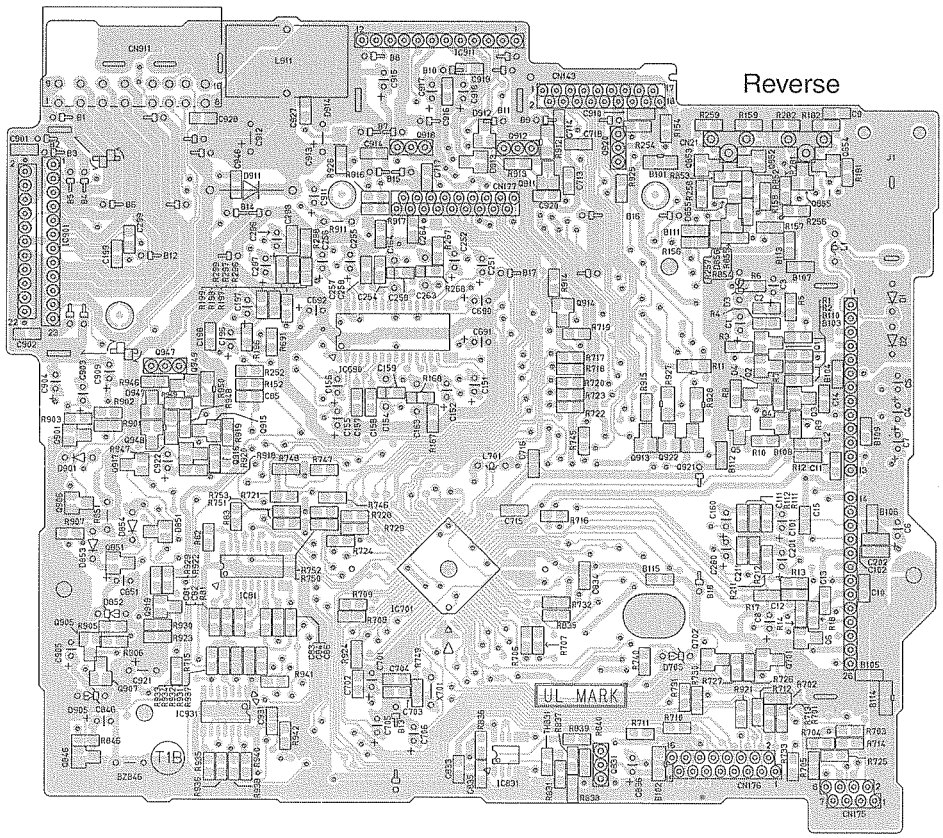
Printed circuit boards

■ Cassette board

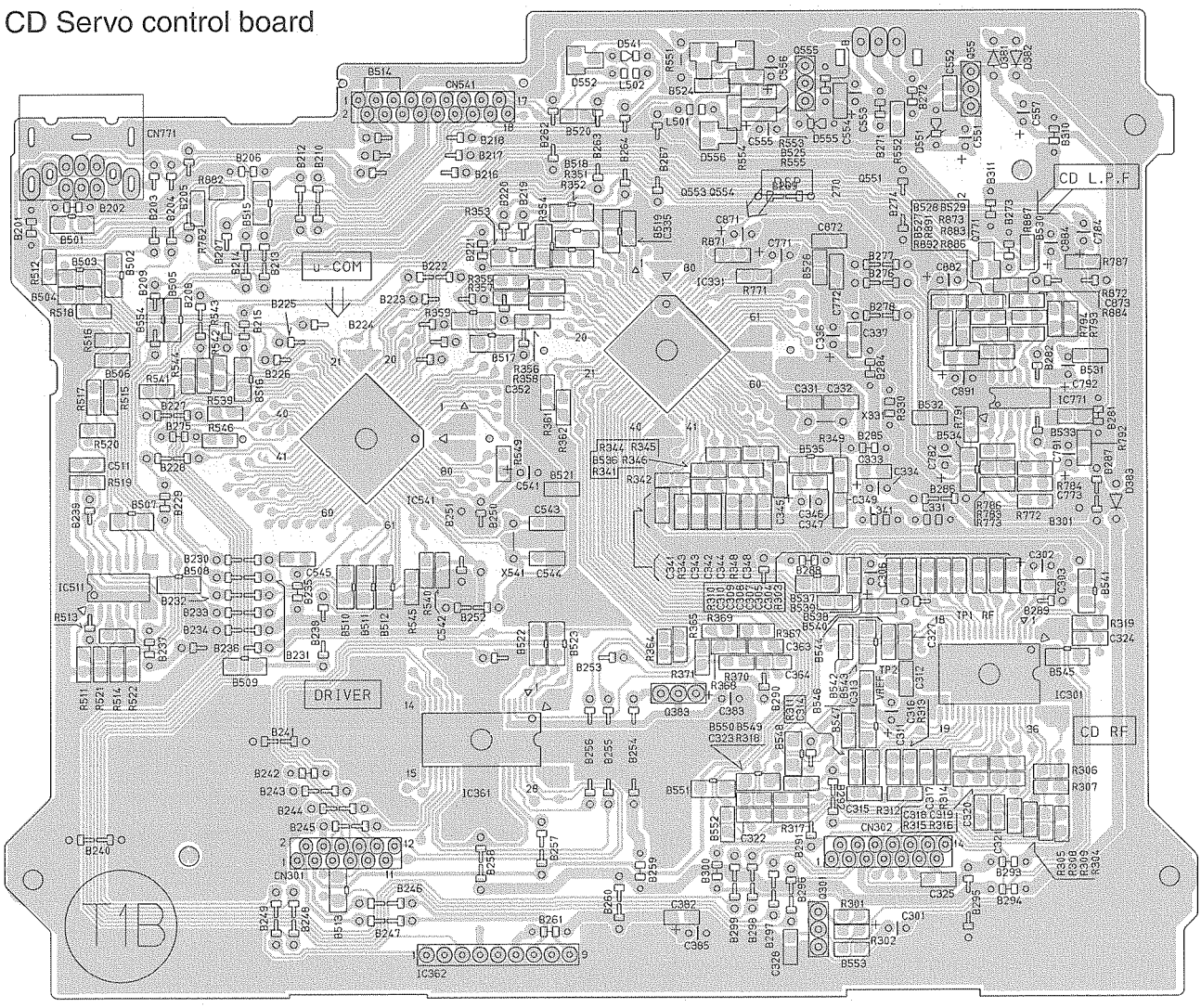
Forward



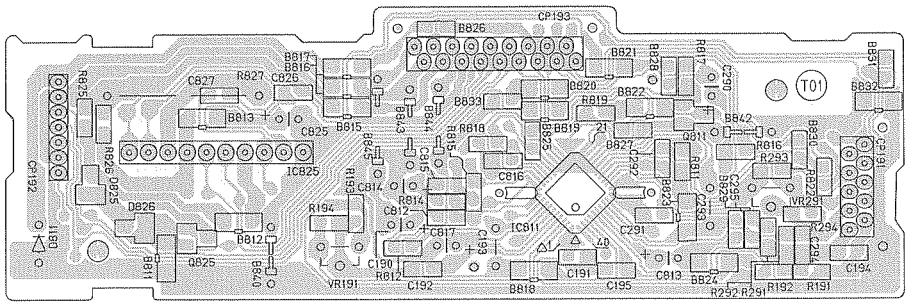
Reverse



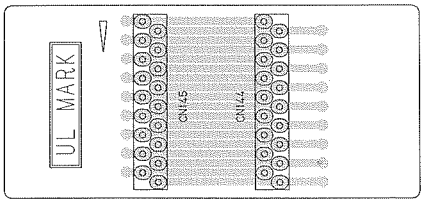
CD Servo control board



Cassette mechanism control board

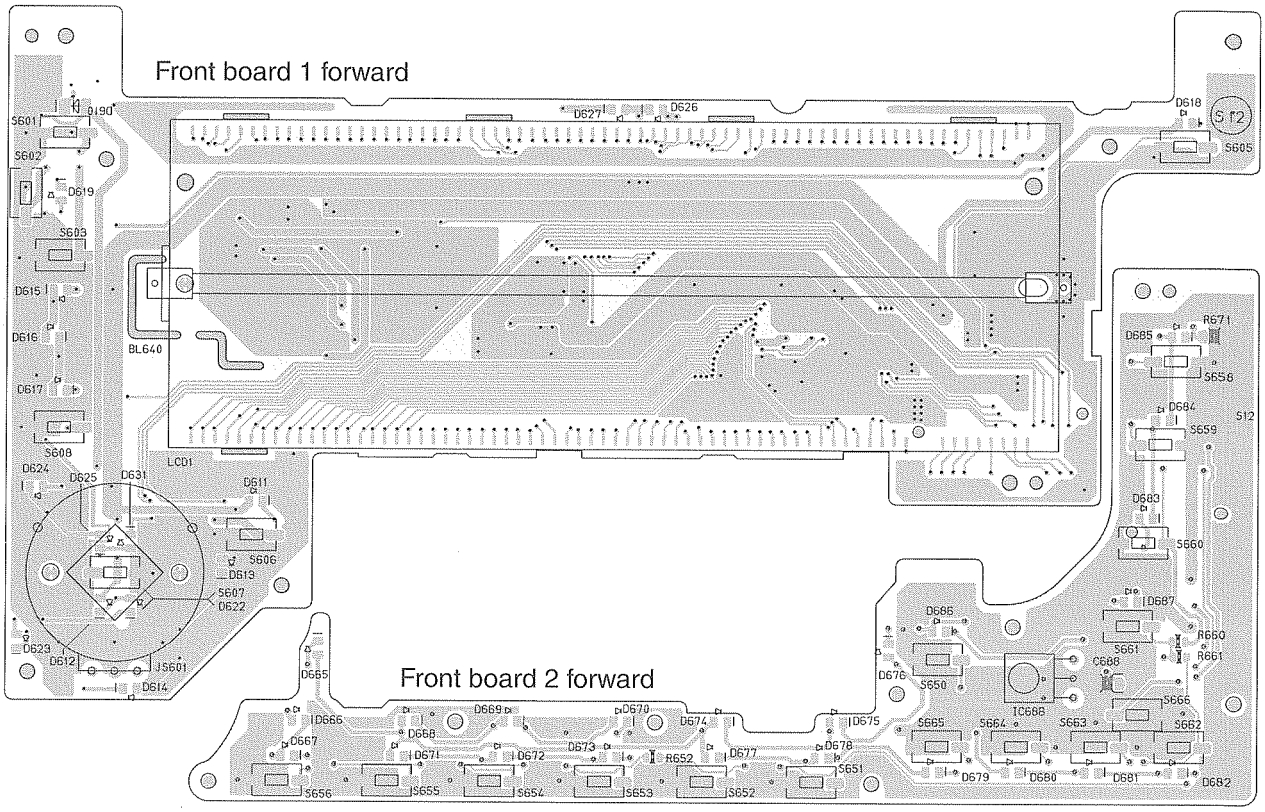


Joint

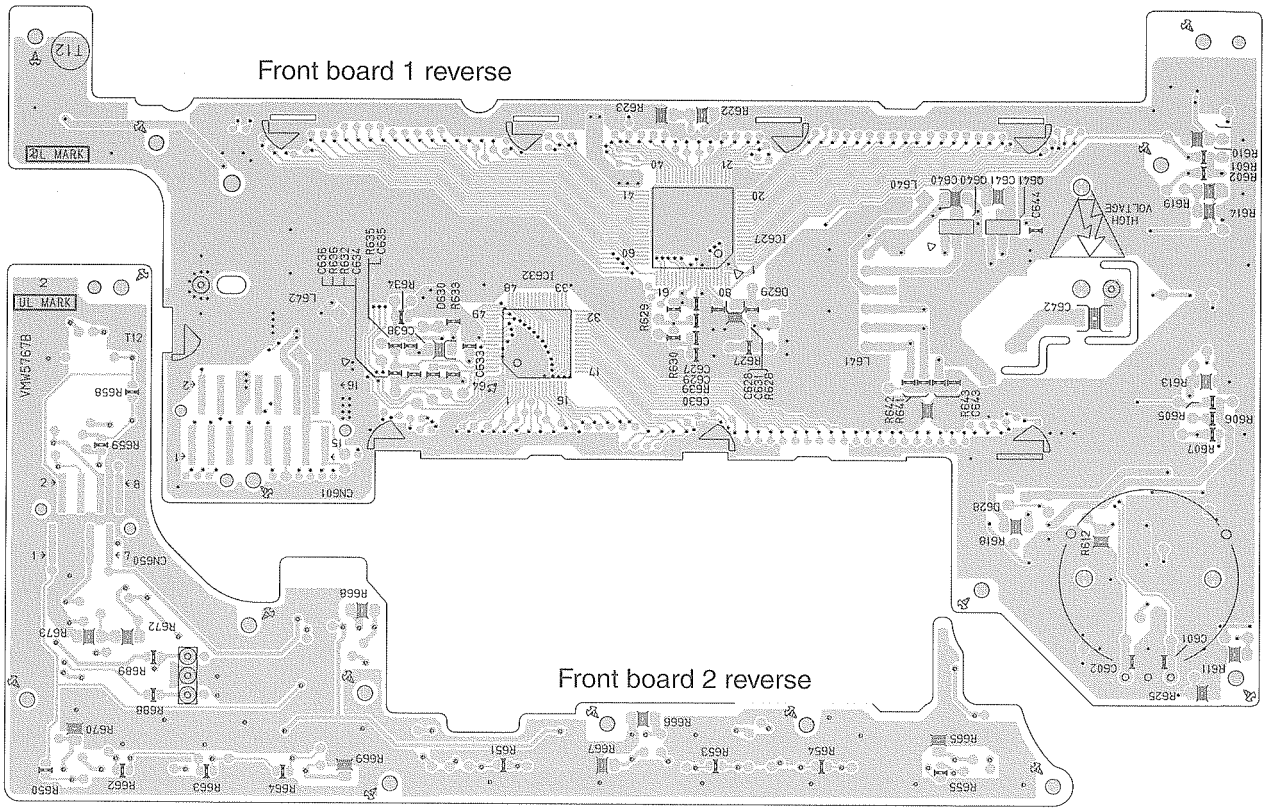


Front board

Front board 1 forward



Front board 1 reverse



Front board 2 reverse

-MEMO-

PARTS LIST

[KW-XC770]

* All printed circuit boards and its assemblies are not available as service parts.

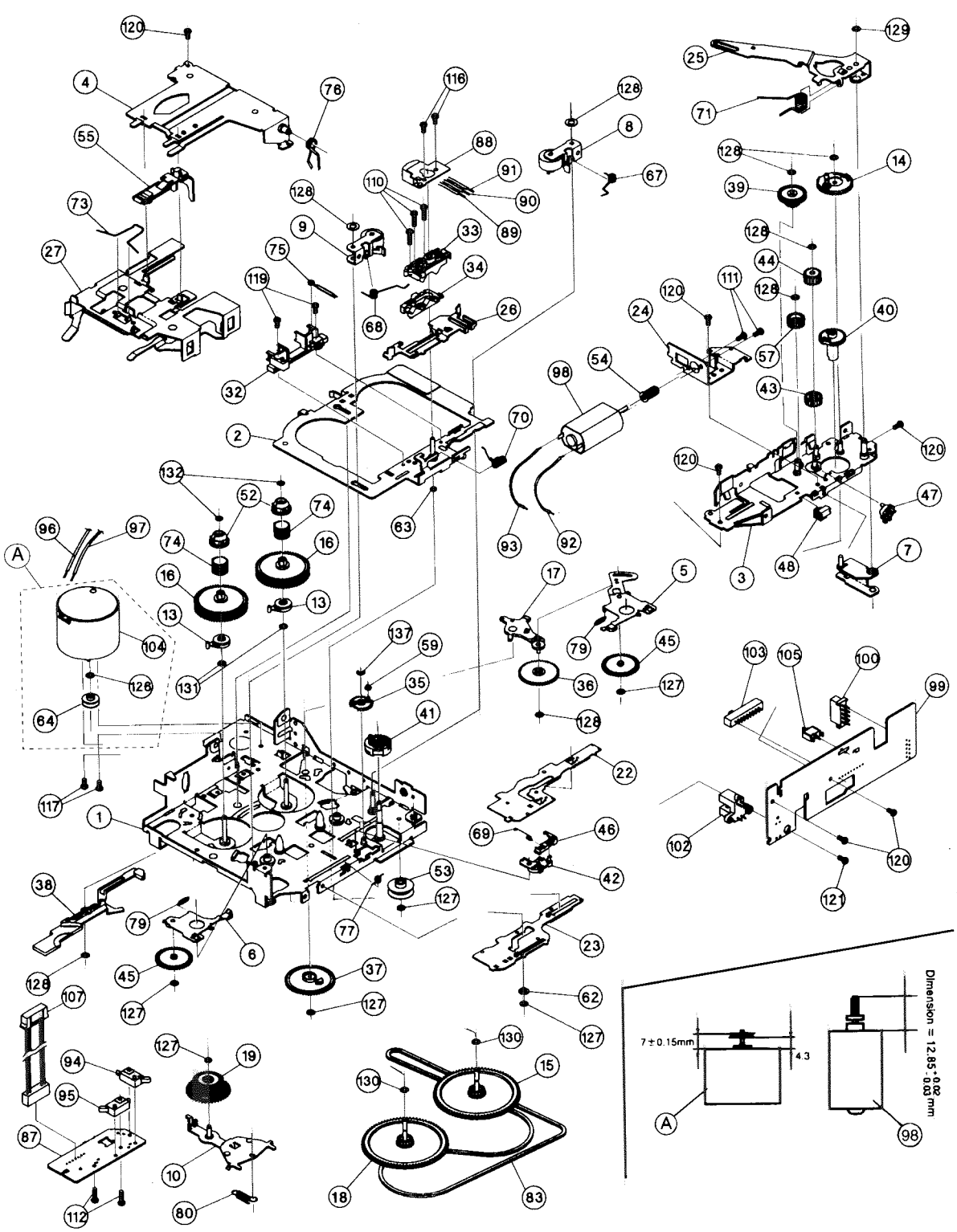
Areas suffix

J ---------- Northern America
U ---------- Other Areas

- Contents -

Cassette mechanism assembly and parts list

Block No. M 2 M M



Parts list (Cassette mechanism)

Block No. M2MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A	100367057S-SA1	DC MOTOR ASS7Y	1	NO.64 104 126	
	1	1-0522-6001-02S	MAIN CHASSIS	1		
	2	1-0522-6002-02S	HEAD BASE	1		
	3	1-0522-6003-11S	SUB CHASSIS	1		
	4	X-0522-1004S	ARM HOLDER	1		
	5	X-0522-1006-02S	TAKE-UP ARM	1		
	6	X-0522-1007S	TAKE-UP ARM	1		
	7	X-0522-1010S	SELECT ARM	1		
	8	X-0522-1019S	PINCH ROLLER	1		
	9	X-0522-1020S	PINCH ROLLER	1		
	10	X-0522-1022S	F.F/REW.ARM	1		
	13	X-0522-2008S	DETECT ARM	2		
	14	X-0522-2010S	LOADING GEAR	1		
	15	X-0522-2016-6S	FLYWHEEL ASY	1		
	16	X-0522-2018S	REEL DISK	2		
	17	X-0522-2020S	GEAR ARM	1		
	18	X-0522-2021-6S	FLYWHEEL ASY(RN	1		
	19	X-0052-2001S	F.R. GEAR ASS'Y	1		
	22	1-0522-1008S	DIR.PLATE	1		
	23	1-0522-1031S	FF/REW PLATE	1		
	24	1-0522-1027S	MOTOR BKT	1		
	25	1-0522-1013-30S	LOAD ARM	1		
	26	1-0522-1014S	SHIFT CAM LINK	1		
	27	1-0522-1017-50S	CASSETTE HOLDER	1		
	32	1-0522-2001S	TAPE GUIDE	1		
	33	1-0522-2002S	HEAD BKT	1		
	34	1-0522-2003S	HEAD SHIFT CAM	1		
	35	1-0522-2004-03S	SELECT GEAR	1		
	36	1-0522-2005S	REDUCTION GEAR	1		
	37	1-0522-2006S	DETECT GEAR	1		
	38	1-0522-2007-50S	DETECTOR	1		
	39	1-0522-2009S	WORM GEAR	1		
	40	1-0522-2011S	MODE GEAR	1		
	41	1-0522-2012S	MODE GEAR(2)	1		
	42	1-0522-2013S	GEAR LATCH	1		
	43	1-0522-2014S	IDLE GEAR(1)	1		
	44	1-0522-2015S	IDLE GEAR(2)	1		
	45	1-0522-2017S	TU GEAR	2		
	46	1-0522-2019S	RACHET	1		
	47	1-0522-2022S	SW ACTUATER	1		
	48	1-0522-2024S	PWB STAY	1		
	52	1-0052-2004S	REEL DRIVER	2		
	53	1-0052-2006S	IDLE PULLEY	1		
	54	1-0522-2023S	WORM	1		
	55	1-0052-2032S	CATCH(K)	1		
	57	1-0052-2041S	COUNTER GEAR	1		
	59	1-0522-3005S	SELECT GEAR COL	1		
	62	1-0052-3028S	H.B. ROLLER(L)	1		

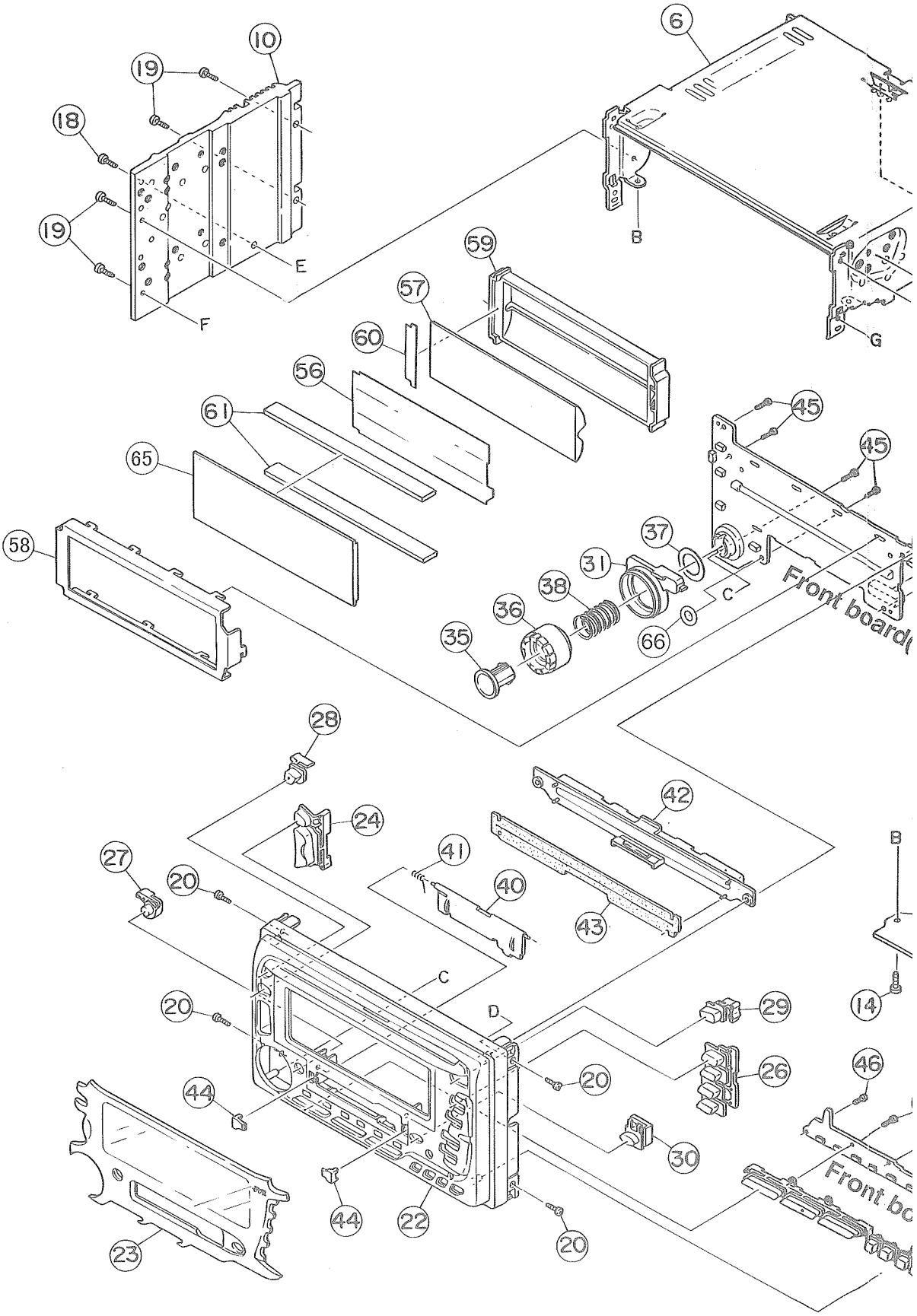
Parts list (Cassette mechanism)

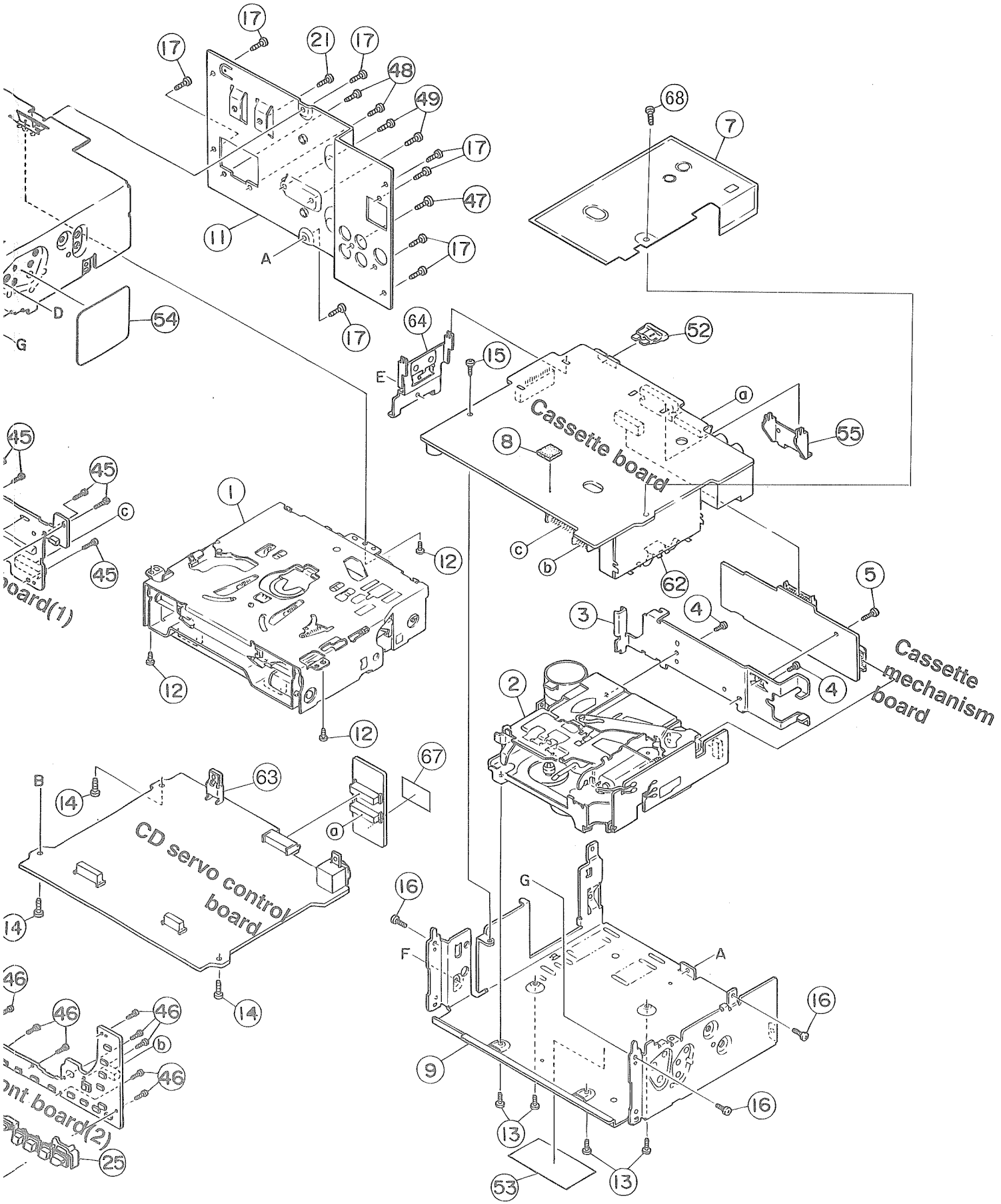
Block No. M2MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	63	1-0052-3029S	H.B. ROLLER(S)	1		
	64	----------	MOTOR PULLEY	1		
	67	1-0522-4001S	PINCH ARM(F)SPG	1		
	68	1-0522-4002S	PINCH ARM(R)SPG	1		
	69	1-0522-4003S	GEAR LATCH SPG	1		
	70	1-0522-4004S	HEAD SPRING	1		
	71	1-0522-4006S	LOAD ARM SPG	1		
	73	1-0522-4008S	CATCH SPRING	1		
	74	1-0522-4010S	REEL DRIVER SPG	2		
	75	1-0522-4011S	DASH SPRING	1		
	76	1-0522-4014S	HOLDER ARM SPG	1		
	77	1-0522-4016S	HOLD SPRING	1		
	79	1-0522-4017S	TU ARM SPRING	2		
	80	1-0522-4015S	FR ARM SPRING	1		
	83	1-0052-5022S	BELT	1		
	87	1-0522-7042S	REEL PWB	1		
	88	1-0522-7003S	2CH HEAD	1	P-7742-HG	
	89	1-0522-7004S	HEAD WIRE(A)	1		
	90	1-0522-7005S	HEAD WIRE(B)	1		
	91	1-0522-7006S	HEAD WIRE(C)	1		
	92	1-0522-7007-04S	SUB MOTOR WIRE	1	RED	
	93	1-0522-7008-04S	SUB MOTOR WIRE	1	BLACK	
	94	1-0522-7038S	LEAF SW	1	10920	
	95	1-0522-7039S	LEAF SW	1	11610	
	96	1-0522-7013S	MOTOR WIRE	1	RED	
	97	1-0522-7014S	MOTOR WIRE	1	BLACK	
	98	1-0522-7040S	SUB MOTOR	1	FF-050SK-10200	
	99	1-0522-7022-01S	HEAD PWB(JV)	1		
	100	1-0522-7024S	CONNECTOR 10P	1	TKC-F10X-K1	
	102	X-0052-7040S	PHOTO COUPLER	1		
	103	1-0036-7007-1S	SLIDE SWITCH	1	SLD-32-710S	
	104	----------	MOTOR ASS'Y	1	EG-520ED-3B	
	105	1-0056-7011S	SWITCH	1	SW-112-5	
	107	1-0052-7013S	JOINT WIRE (7P)	1		
	110	1-0522-5003S	AZIMUTH SCREW	3		
	111	1-0052-5023S	MOTOR SCREW	2	M2X2.5	
	112	1-0101-5006S	SCREW PLAIN	2	M1.7X7	
	116	1-0522-5005S	SPECIAL SCREW(2	2		
	117	2-1032-0022-C2S	MACHINE SCREW	2	M2X2.2	
	119	1-0522-5006S	SPECIAL SCREW(3	2		
	120	2-1332-0030-C1S	SCREW	6	M2X3	
	121	2-1382-0050-C2S	PLAIN	1	M2X5	
	126	----------	MYLAR WASHER	1		
	127	2-1812-0030-D2S	POLY WASHER(S)	6	1.2X3X0.25	
	128	2-1816-0032-D2S	POLY WASHER(S)	8	1.6X3.2X0.25	
	129	2-1817-5040-D8S	LMW-S	1	1.75X4X0.25	
	130	2-1816-0032-E8S	MYLAR WASHER(S)	2	1.6X3.2X0.35	
	131	2-1821-0040-D1S	POLY WASHER	2	2.1X4X0.25	
	132	1-0053-5005S	LMW-S	2	1.5X3.2X0.25	
	137	2-1711-5040-16S	E RING	1	1.5	

Exploded view of general assembly and parts list

Block No. M 1 M M




Cassette board
Cassette mechanism board
CD servo control board

D E F G H

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	----------	CD MECHA	1		
	2	----------	CASSETTE MECHA	1		
	3	LV30662-001A	MECHA PWB BKT	1		
	4	QYSDST2003Z	SCREW	2		
	5	QYSDST2606Z	SCREW	1		
	6	LV10220-001A	TOP CHASSIS	1		
	7	LV31408-003A	SHIELD	1		
	8	VYSH101-009	SPACER	1		
	9	LV10122-002A	BOTTOM CHASSIS	1		
	10	LV31130-001A	HEAT SINK	1		
	11	LV20390-001A	REAR BRACKET	1		
	12	QYSDST2604Z	SCREW	3	CHASSIS+CD MECH	
	13	QYSDSP2604Z	SCREW	4	CS MECHA+B. CHA	
	14	QYSDST2606Z	SCREW	3	CD PWB+TOP CHAS	
	15	QYSDST2606Z	SCREW	1	CS PWB+BOTTOM C	
	16	QYSDST2606Z	SCREW	3	TOP CHA+B. CHAS	
	17	QYSDST2606Z	SCREW	8		
	18	QYSDST2608Z	SCREW	1	HEAT SINK+IC BK	
	19	QYSDST2606Z	SCREW	4	HEAT SINK+CHASS	
	20	QYSPSP2004M	SCREW	4	F.PANEL+CHASSIS	
	21	QYSDST2608Z	SCREW	1	REAR BKT+TR.BKT	
	22	LV31237-003A	FRONT PANEL	1	J	
		LV31237-001A	FRONT PANEL	1	U	
	23	LV20219-007A	FINDER	1		
	24	LV20221-003A	UP/DOWN BUTTON	1	1/2/3/4/5/6	
	25	LV20222-009A	PRESET BUTTON	1		
	26	LV20223-004A	FUNCTION BUTTON	1		
	27	LV30667-002A	SA BUTTON	1		
	28	LV30668-003A	POWER BUTTON	1		
	29	LV30669-003A	EJECT BUTTON	1		
	30	LV30694-003A	CS EJECT BUTTON	1		
	31	LV40844-002A	RING LENS ASSY	1		
	35	LV30666-002A	SEL BUTTON	1		
	36	LV30670-005A	ROTARY KNOB	1		
	37	LV40833-001A	SPACER	1		
	38	LV40592-002A	COMP. SPRING	1		
	40	LV30664-002A	CASSETTE LID	1		
	41	VKW5312-001	DOOR SPRING	1		
	42	LV31131-001A	DISC GUIDE	1		
	43	VYTA527-002	BLIND	1		
	44	LV41004-001A	CASSETTE LENS	2	FRONT+REAR	
	45	VKZ4777-001	MINI SCREW	7	LCD PWB+F.PANEL	
	46	VKZ4777-003	MINI SCREW	8	SW PWB+F.PANEL	
	47	QYSDSF3006Z	SCREW	1	REAR BKT+PIN JA	
	48	QYSDST2606Z	SCREW	2		
	49	QYSDST2610Z	SCREW	2	REAR BKT+REG.BK	
⚠	52	QMFZ021-100-J1	FUSE	1		
	53	LV31708-001A	NAME PLATE	1	U	

■ Parts list (General assembly)

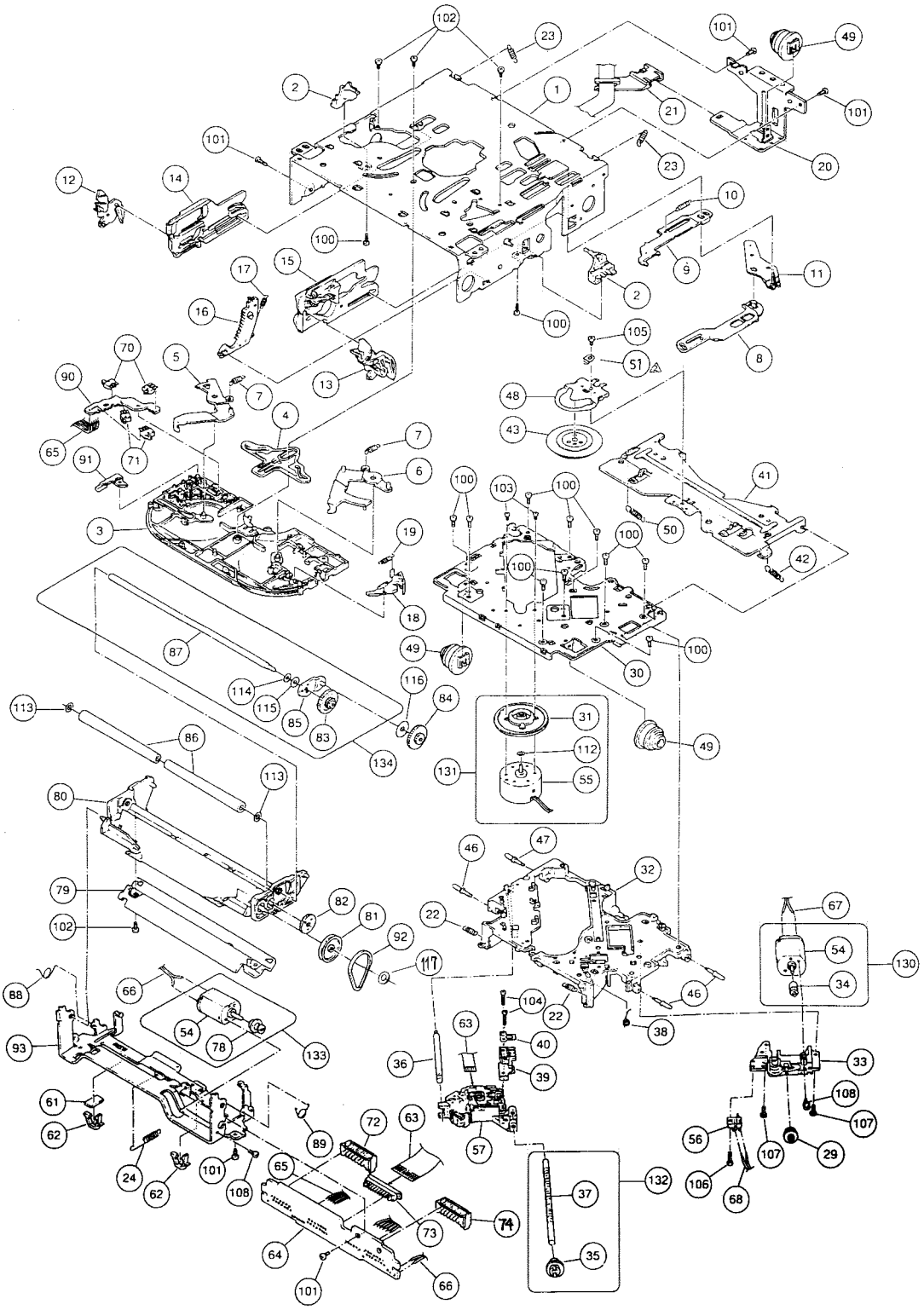
Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
*	53	LV31638-001A	NAME PLATE	1	J	
	54	LV41015-001A	CAUTION LABEL	1		
	55	LV41006-001A	REG.IC BRACKET	1		
	56	LV40584-003A	LCD FILTER	1		
	57	LV31132-001A	LCD LENS	1		
	58	LV30661-001A	LCD COVER	1		
	59	LV20218-001A	LIGHTING CASE	1		
	60	LV40858-001A	SPACER	1		
	61	QNZ0420-001	RUBBER CONNECTO	2		
	62	VMA4652-001SS	EARTH PLATE	1		
	63	VKL7059-002SS	TR BRACKET	1		
	64	FSKL4018-00A	IC BRACKET	1		
	65	QLD0094-001	LCD	1		
	66	LV41609-002A	SPACER(WASHER)	1		
	67	LV40848-004A	SPACER	1		
	68	QYSPSTB2606Z	SCREW	1		

CD mechanism assembly and parts list

KD-LX1JD(MA2)

Block No. M 3 M M



■ Parts list (CD mechanism)

Block No. M3MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	30310101T	FRAME	1		
	2	30310103T	DANPER PIN	2		
	3	30310107T	UPPER PLATE	1		
	4	30310108T	SEL STOP PLATE	1		
	5	30310142T	SEL ARM (L)L	1		
	6	30310143T	SEL ARM (R)L	1		
	7	30310145T	S ARM SPRING(L)	2		
	8	30310112T	TRIG LEVER	1		
	9	30310155T	TRIG PLATE(Z)	1		
	10	30310115T	TRIG PL SPRING	1		
	11	30310116T	TRIG ARM	1		
	12	30310134T	FIX ARM (L)B	1		
	13	30310135T	FIX ARM (R)B	1		
	14	30310119T	FIX PLATE (L)	1		
	15	30310120T	FIX PLATE (R)	1		
	16	30310138T	LDG GEAR (6)B	1		
	17	30310122T	LDG GEAR (6)SP	1		
	18	30310148T	S.L ARM(N)	1		
	19	30310125T	S.L ARM SPRING	1		
	20	30310126T	REAR DAM BKT(J)	1		
	21	30310127T	FPC GUIDE	1		
	22	30310128T	HUNG UP SP (F)	2		
	23	30310129T	HUNG UP SP (R)	2		
	24	30310130T	LEVEL SPRING	1		
	29	30300510T	PU GEAR(B)	1		
	30	30310501T	TTB	1		
	31	----------	TURN TABLE	1		
	32	30310503T	FMB	1		
	33	30310504T	FD GR BRACKET	1		
	34	----------	FD GEAR (A)	1		
	35	----------	FD GEAR (C)	1		
	36	30310538T	PU SHAFT	1		
	37	----------	FD SCREW	1		
	38	30310510T	THRUST SPRING	1		
	39	30310511T	PU M NUT	1		
	40	30310512T	NUT PUSH SPR PL	1		
	41	30310513T	CLP ARM	1		
	42	30310514T	CLP ARM SPRING	1		
	43	30310515T	CLAMPER	1		
	46	30310521T	LOCK PIN	3		
	47	30310522T	LOCK PIN BL	1		
	48	30310523T	CLAMPER PLATE	1		
	49	30310524T	DAMPER (J)	3		
	50	30310525T	CLP ARM SPR (L)	1		
	51	30310536T	STOPPER SPRING	1		
	54	----------	FEED MOTOR	2	FF030PK-09210	
	55	----------	SPINDLE MOTOR	1		
	56	64180404T	DET SWITCH	1	ESE11HS2	

■ Parts list (CD mechanism)

Block No. M3MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	57	OPTIMA-720A1	CD PICK UNIT	1		
	61	11050210T	FELT	1		
	62	19501403T	WIRE CLAMPER	2		
	63	30311019T	PICK UP FPC(J)	1		
	64	30311018T	CONNECTER PCB(J	1		
	65	30311022T	WIRE (5P-J)	1		
	66	30311023T	WIRE (LD-J)	1		
	67	30311006T	WIRE (FD)	1		
	68	30311007T	WIRE (RS)	1		
	70	64180402T	DET SWITCH	2	ESE22MH1	
	71	64180403T	DET SWITCH	2	ESE22MH3	
	72	68150235T	CONNECTOR	1	TKC-F14P-J3	
	73	68170224T	CONNECTOR(15P)	1	6208010115	
	74	68150237T	CONNECTOR(12P)	1	TKC-F12P-J3	
	78	----------	LDG PULLEY	1		
	79	30311105T	SOPPORT PLATE	1		
	80	30311108T	GR MT BLK	1		
	81	30311109T	LDG GEAR (2)	1		
	82	30311110T	LDG GEAR (3)	1		
	83	----------	LDG GEAR (4)	1		
	84	30311112T	LDG GEAR (5)	1		
	85	----------	LDG GR ARM	1		
	86	30311131T	LDG ROLLER	2		
	87	----------	LDG RLR SHAFT	1		
	88	30311118T	L.P SPRING (L)	1		
	89	30311119T	L.P SPRING (R)	1		
	90	30311123T	SW PCB	1		
	91	30311124T	SW ACTUATOR	1		
	92	30311129T	LDG BELT	1		
	93	30311130T	FRONT BRKT (J)	1		
	100	9C0620503T	C B TAP SCREW	12	M2X5	
	101	9C2020401T	C SCREW TS.G	5	M2X4	
	102	9C4320403T	C B TAP SCREW	4	M2X4	
	103	9C0117223T	SCREW	2	M1.7X2.2	
	104	9C0317803T	C SCREW	2	M1.7X8	
	105	9C4220201T	C TAP SCREW S3	1	M2X2	
	106	9C4420003T	C TAP SCREW B3	1	M2X10	
	107	9C4420503T	C TAP SCREW B3	2	M2X5	
	108	9P0220031T	TAMS SCREW	2	M2X3	
	112	----------	POLY WASHER	1		
	113	9W0330276T	POLY WASHER	2	2.9X5X0.3	
	114	----------	WAVE WASHER	1		
	115	----------	LUMILAR WASHER	1		
	116	9W0725030T	LUMILAR W	1	2.3X9.8X0.35	
	117	9W0640030T	WASHER	1	1.4X3.2X0.4	
	130	303105301T	FFED MOTOR ASSY	1	NO.34 54	
	131	303105302T	SP MOTOR ASSY	1	NO.31 55 112	
	132	303105303T	FEED SCREW ASSY	1	NO.35 37	
	133	303111301T	LDG MOTOR ASSY	1	NO.54 78	
	134	303111302T	RDG RLR SFT ASY	1	NO.83 85 87	
		303111302T	RDG RLR SFT ASY	1	NO.114 115	

Electrical parts list

■ Electrical parts list(Cassette board) Block No. 01

⚠	Item	Parts number	Parts name	Remarks	Area
	C 1	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 2	NCB21HK-102X	C CAPACITOR		
	C 3	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 4	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 5	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 6	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 7	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 8	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 9	NCB21HK-103X	C CAPACITOR		
	C 10	NCS21HJ-101X	C CAPACITOR		
	C 12	NCB21HK-103X	C CAPACITOR		
	C 13	NCB21HK-103X	C CAPACITOR		
	C 14	NCB21EK-104X	C CAPACITOR		
	C 15	NCB21EK-104X	C CAPACITOR		
	C 81	NCB21EK-104X	C CAPACITOR		
	C 82	NCB21EK-104X	C CAPACITOR		
	C 83	NCB21EK-104X	C CAPACITOR		
	C 84	NCB21HK-104X	C CAPACITOR		
	C 85	NCB21EK-104X	C CAPACITOR		
	C 86	NCB21HK-223X	C CAPACITOR		
	C 101	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 102	NCB21HK-273X	C CAPACITOR	J	
	C 102	NCB21HK-183X	C CAPACITOR	U	
	C 111	NCB21HK-152X	C CAPACITOR	U	
	C 111	NCB21HK-222X	C CAPACITOR	J	
	C 151	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 152	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 154	QFV61HJ-224Z	TF CAPACITOR	.22MF 5% 50V	
	C 155	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 156	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 157	NCB21HK-562X	C CAPACITOR		
	C 158	NCB21HK-333X	C CAPACITOR		
	C 159	NCB21HK-102X	C CAPACITOR		
	C 160	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 163	QFV61HJ-224Z	TF CAPACITOR	.22MF 5% 50V	
	C 164	NCB21HK-222X	C CAPACITOR		
	C 196	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 197	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 198	NCS21HJ-101X	C CAPACITOR		
	C 199	NCS21HJ-101X	C CAPACITOR		
	C 201	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 202	NCB21HK-273X	C CAPACITOR	J	
	C 202	NCB21HK-183X	C CAPACITOR	U	
	C 211	NCB21HK-152X	C CAPACITOR	U	
	C 211	NCB21HK-222X	C CAPACITOR	J	
	C 251	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 252	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 254	QFV61HJ-224Z	TF CAPACITOR	.22MF 5% 50V	
	C 255	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 256	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 257	NCB21HK-562X	C CAPACITOR		
	C 258	NCB21HK-333X	C CAPACITOR		
	C 259	NCB21HK-102X	C CAPACITOR		
	C 260	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 263	QFV61HJ-224Z	TF CAPACITOR	.22MF 5% 50V	
	C 264	NCB21HK-222X	C CAPACITOR		
	C 296	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 297	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 298	NCS21HJ-101X	C CAPACITOR		
	C 299	NCS21HJ-101X	C CAPACITOR		
	C 690	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C 691	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 692	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 701	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 702	NCB21HK-223X	C CAPACITOR		
	C 703	NDC21HJ-270X	C CAPACITOR		
	C 704	NDC21HJ-270X	C CAPACITOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	C 705	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 706	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 713	NCB21HK-103X	C CAPACITOR		
	C 715	NCS21HJ-101X	C CAPACITOR		
	C 716	NCB21HK-103X	C CAPACITOR		
	C 717	NCS21HJ-470X	C CAPACITOR		
	C 833	NCB21EK-104X	C CAPACITOR		
	C 834	NCB21EK-104X	C CAPACITOR		
	C 835	NCB21EK-104X	C CAPACITOR		
	C 836	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C 846	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 851	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 901	NCB21HK-104X	C CAPACITOR		
	C 902	NCB21EK-104X	C CAPACITOR		
	C 903	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 904	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 905	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 909	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C 911	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 912	QETM1CM-338	E CAPACITOR	3300MF 20% 16V	
	C 913	QETM1CM-338	E CAPACITOR	3300MF 20% 16V	
	C 914	NCB21HK-223X	C CAPACITOR		
	C 915	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C 916	NCB21HK-223X	C CAPACITOR		
	C 917	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 918	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 919	NCB21HK-223X	C CAPACITOR		
	C 920	NCB21EK-473X	C CAPACITOR		
	C 921	QETC0JM-228Z	E CAPACITOR	2200MF 20% 6.3V	
	C 922	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 927	NCF21HZ-104X	C CAPACITOR		
	C 928	NCF21HZ-104X	C CAPACITOR		
	C 931	NCB21HK-223X	C CAPACITOR		
	CN 21	QNN0293-001	PIN JACK		
	CN143	QGB1214K1-18S	CONNECTOR		
	CN175	QGB1218K1-08	CONNECTOR		
	CN176	QGB1218K1-16	CONNECTOR		
	CN177	QGB1214J1-18S	CONNECTOR		
	CN911	QNZ0002-001	16P CONNECTOR		
	D 1	1SS133-T1	SI DIODE I/M		
	D 2	1SS133-T1	SI DIODE I/M		
	D 3	MTZJ9.1C-T1	ZENER DIODE		
	D 4	MA152WK-X	SI DIODE		
	D 703	MTZJ4.7B-T1	ZENER DIODE		
	D 851	MA152WA-X	DIODE		
	D 852	MTZJ4.7B-T1	ZENER DIODE		
	D 853	1SS133-T1	SI DIODE I/M		
	D 854	1SS133-T1	SI DIODE I/M		
	D 855	MA152WA-X	DIODE		
	D 856	MA152WA-X	DIODE		
	D 901	1SS133-T1	SI DIODE I/M		
	D 905	MTZJ11C-T1	ZENER DIODE		
	D 911	1N5404-TU-15	DIODE		
	D 912	MA152WK-X	SI DIODE		
	D 913	MA152WA-X	DIODE		
	D 914	D1FS4-X	SI DIODE		
	IC 81	BA3834F-W	IC		
	IC690	TEA6320T-X	IC		
	IC701	UPD178006AGC5	IC(MCU)		
	IC831	NJM2904M-W	IC		
	IC901	HA13158A	IC		
	IC911	BA4901A-V3	IC		
	IC931	HD74HC126FP-X	IC		
	J 1	QNZ0009-001	CAR ANT JACK		
	L 1	QQL114K-4R7Z	INDUCTOR		
	L 911	QQR0703-001	CHOKE COIL		
	Q 1	2SC2412K/R/-X	TRANSISTOR		

■ Electrical parts list(Cassette board) Block No. 01

⚠	Item	Parts number	Parts name	Remarks	Area
	Q 2	2SC2412K/R/-X	TRANSISTOR		
	Q 3	2SB815/7/-X	TRANSISTOR		
	Q 4	2SB815/7/-X	TRANSISTOR		
	Q 5	DTC114EKA-X	TRANSISTOR		
	Q 6	DTC114EKA-X	TRANSISTOR		
	Q 701	2SA1037K/R/-X	TRANSISTOR		
	Q 702	DTC114EKA-X	TRANSISTOR		
	Q 831	2SB1322/RS/-T	TRANSISTOR		
	Q 846	DTC114EKA-X	TRANSISTOR		
	Q 851	DTA114EKA-X	DIGITAL.TRANSIS		
	Q 852	2SD1048/6-7/-X	TRANSISTOR		
	Q 853	2SD1048/6-7/-X	TRANSISTOR		
	Q 854	2SD1048/6-7/-X	TRANSISTOR		
	Q 855	2SD1048/6-7/-X	TRANSISTOR		
	Q 901	DTC114EKA-X	TRANSISTOR		
	Q 906	DTC114EKA-X	TRANSISTOR		
	Q 907	DTA144EKA-X	TRANSISTOR		
	Q 911	2SB815/7/-X	TRANSISTOR		
	Q 912	2SB1322/RS/-T	TRANSISTOR		
	Q 913	DTC114EKA-X	TRANSISTOR		
	Q 914	2SB815/7/-X	TRANSISTOR		
	Q 915	2SB709A/QR/-X	TRANSISTOR		
	Q 916	DTC114EKA-X	TRANSISTOR		
	Q 917	DTC114EKA-X	TRANSISTOR		
	Q 918	2SB1322/RS/-T	TRANSISTOR		
	Q 919	2SD601A/QR/-X	TRANSISTOR		
	Q 920	2SB1322/RS/-T	TRANSISTOR		
	Q 921	DTC114EKA-X	TRANSISTOR		
	Q 922	DTC114EKA-X	TRANSISTOR		
	R 1	NRSA02J-102X	MG RESISTOR		
	R 2	NRSA02J-102X	MG RESISTOR		
	R 3	NRSA02J-152X	MG RESISTOR		
	R 4	NRSA02J-102X	MG RESISTOR		
	R 5	NRSA02J-103X	MG RESISTOR		
	R 6	NRSA02J-471X	MG RESISTOR		
	R 7	NRSA02J-103X	MG RESISTOR		
	R 8	NRSA02J-222X	MG RESISTOR		
	R 9	NRSA02J-103X	MG RESISTOR		
	R 10	NRSA02J-102X	MG RESISTOR		
	R 11	NRS181J-6R8X	MG RESISTOR		
	R 12	NRSA02J-331X	MG RESISTOR		
	R 13	NRSA02J-103X	MG RESISTOR		
	R 14	NRSA02J-155X	MG RESISTOR		
	R 17	NRSA02J-102X	MG RESISTOR		
	R 18	NRSA02J-223X	MG RESISTOR		
	R 81	NRSA02J-104X	MG RESISTOR		
	R 82	NRSA02J-223X	MG RESISTOR		
	R 83	NRSA02J-223X	MG RESISTOR		
	R 111	NRSA02J-562X	MG RESISTOR		
	R 112	NRSA02J-392X	MG RESISTOR	J	
	R 112	NRSA02J-822X	MG RESISTOR	U	
	R 152	NRSA02J-473X	MG RESISTOR		
	R 154	NRSA02J-222X	MG RESISTOR		
	R 156	NRSA02J-473X	MG RESISTOR		
	R 157	NRSA02J-473X	MG RESISTOR		
	R 158	NRSA02J-821X	MG RESISTOR		
	R 159	NRSA02J-181X	MG RESISTOR		
	R 167	NRSA02J-222X	MG RESISTOR		
	R 168	NRSA02J-223X	MG RESISTOR		
	R 181	NRSA02J-821X	MG RESISTOR		
	R 182	NRSA02J-181X	MG RESISTOR		
	R 196	NRSA02J-333X	MG RESISTOR		
	R 197	NRSA02J-333X	MG RESISTOR		
	R 211	NRSA02J-562X	MG RESISTOR		
	R 212	NRSA02J-392X	MG RESISTOR	J	
	R 212	NRSA02J-822X	MG RESISTOR	U	
	R 252	NRSA02J-473X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R 254	NRSA02J-222X	MG RESISTOR		
	R 256	NRSA02J-473X	MG RESISTOR		
	R 257	NRSA02J-473X	MG RESISTOR		
	R 258	NRSA02J-821X	MG RESISTOR		
	R 259	NRSA02J-181X	MG RESISTOR		
	R 267	NRSA02J-222X	MG RESISTOR		
	R 268	NRSA02J-223X	MG RESISTOR		
	R 281	NRSA02J-821X	MG RESISTOR		
	R 282	NRSA02J-181X	MG RESISTOR		
	R 296	NRSA02J-333X	MG RESISTOR		
	R 297	NRSA02J-333X	MG RESISTOR		
	R 691	NRSA02J-100X	MG RESISTOR		
	R 701	NRSA02J-332X	MG RESISTOR		
	R 702	NRSA02J-332X	MG RESISTOR		
	R 703	NRSA02J-332X	MG RESISTOR		
	R 704	NRSA02J-332X	MG RESISTOR		
	R 705	NRSA02J-473X	MG RESISTOR		
	R 706	NRSA02J-222X	MG RESISTOR		
	R 707	NRSA02J-222X	MG RESISTOR		
	R 708	NRSA02J-222X	MG RESISTOR		
	R 709	NRSA02J-222X	MG RESISTOR		
	R 710	NRSA02J-222X	MG RESISTOR		
	R 711	NRSA02J-222X	MG RESISTOR		
	R 712	NRSA02J-101X	MG RESISTOR		
	R 713	NRSA02J-101X	MG RESISTOR		
	R 714	NRSA02J-101X	MG RESISTOR		
	R 715	NRSA02J-473X	MG RESISTOR		
	R 716	NRSA02J-472X	MG RESISTOR		
	R 717	NRSA02J-473X	MG RESISTOR		
	R 718	NRSA02J-473X	MG RESISTOR		
	R 719	NRSA02J-473X	MG RESISTOR		
	R 720	NRSA02J-473X	MG RESISTOR		
	R 722	NRSA02J-473X	MG RESISTOR		
	R 723	NRSA02J-473X	MG RESISTOR		
	R 724	NRSA02J-473X	MG RESISTOR		
	R 725	NRSA02J-101X	MG RESISTOR		
	R 726	NRSA02J-473X	MG RESISTOR		
	R 727	NRSA02J-222X	MG RESISTOR		
	R 728	NRSA02J-103X	MG RESISTOR		
	R 729	NRSA02J-103X	MG RESISTOR		
	R 730	NRSA02J-473X	MG RESISTOR		
	R 731	NRSA02J-473X	MG RESISTOR		
	R 732	NRSA02J-472X	MG RESISTOR		
	R 740	NRSA02J-102X	MG RESISTOR		
	R 745	NRSA02J-473X	MG RESISTOR		
	R 746	NRSA02J-473X	MG RESISTOR		
	R 748	NRSA02J-473X	MG RESISTOR		
	R 749	NRSA02J-391X	MG RESISTOR		
	R 750	NRSA02J-473X	MG RESISTOR	U ONLY	
	R 751	NRSA02J-473X	MG RESISTOR	J ONLY	
	R 752	NRSA02J-473X	MG RESISTOR	J ONLY	
	R 753	NRSA02J-473X	MG RESISTOR	U ONLY	
	R 831	NRSA02J-103X	MG RESISTOR		
	R 835	NRSA02J-333X	MG RESISTOR		
	R 836	NRSA02J-333X	MG RESISTOR		
	R 837	NRSA02J-103X	MG RESISTOR		
	R 838	NRSA02J-153X	MG RESISTOR		
	R 839	NRSA02J-222X	MG RESISTOR		
	R 840	NRSA02J-103X	MG RESISTOR		
	R 846	NRSA02J-332X	MG RESISTOR		
	R 851	QRE142J-472X	C RESISTOR	4.7K 5% 1/4W	
	R 852	NRSA02J-332X	MG RESISTOR		
	R 853	NRSA02J-332X	MG RESISTOR		
	R 854	NRSA02J-332X	MG RESISTOR		
	R 855	NRSA02J-332X	MG RESISTOR		
	R 901	NRSA02J-681X	MG RESISTOR		
	R 902	NRSA02J-562X	MG RESISTOR		

■ Electrical parts list(Cassette board) Block No. 01

⚠	Item	Parts number	Parts name	Remarks	Area
	R 903	NRSA02J-473X	MG RESISTOR		
	R 911	QRE142J-102X	C RESISTOR	1.0K 5% 1/4W	
	R 912	NRS181J-1R8X	MG RESISTOR		
	R 913	NRSA02J-223X	MG RESISTOR		
	R 914	NRSA02J-473X	MG RESISTOR		
	R 915	NRSA02J-122X	MG RESISTOR		
	R 916	NRSA02J-472X	MG RESISTOR		
	R 917	NRSA02J-912X	MG RESISTOR		
	R 918	NRSA02J-472X	MG RESISTOR		
	R 919	NRSA02J-473X	MG RESISTOR		
	R 920	NRSA02J-272X	MG RESISTOR		
	R 921	NRSA02J-102X	MG RESISTOR		
	R 922	NRSA02J-124X	MG RESISTOR		
	R 923	NRSA02J-103X	MG RESISTOR		
	R 924	NRSA02J-222X	MG RESISTOR		
	R 925	NRSA02J-473X	MG RESISTOR		
	R 926	NRSA02J-473X	MG RESISTOR		
	R 927	NRS181J-152X	MG RESISTOR		
	R 928	NRS181J-152X	MG RESISTOR		
	R 931	NRSA02J-104X	MG RESISTOR		
	R 932	NRSA02J-104X	MG RESISTOR		
	R 933	NRSA02J-104X	MG RESISTOR		
	R 934	NRSA02J-101X	MG RESISTOR		
	R 935	NRSA02J-104X	MG RESISTOR		
	R 936	NRSA02J-101X	MG RESISTOR		
	R 937	NRSA02J-223X	MG RESISTOR		
	R 938	NRSA02J-223X	MG RESISTOR		
	R 940	NRSA02J-103X	MG RESISTOR		
	R 941	NRSA02J-104X	MG RESISTOR		
	R 942	NRSA02J-102X	MG RESISTOR		
	TH831	NAD0006-103X	THERMISTOR		
	TU 1	QAU0120-003	TUNER PACK		
	X 701	QAX0406-001Z	CRYSTAL		

■ Electrical parts list(Cassette mechanism board) Block No. 02

⚠	Item	Parts number	Parts name	Remarks	Area
	C 190	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 191	NCB21HK-153X	C CAPACITOR		
	C 192	NCB21EK-104X	C CAPACITOR		
	C 193	QFV61HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 194	NCS21HJ-471X	C CAPACITOR		
	C 195	NCS21HJ-101X	C CAPACITOR		
	C 290	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 291	NCB21HK-153X	C CAPACITOR		
	C 292	NCB21EK-104X	C CAPACITOR		
	C 293	QFV61HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 294	NCS21HJ-471X	C CAPACITOR		
	C 295	NCS21HJ-101X	C CAPACITOR		
	C 812	NCS21HJ-221X	C CAPACITOR		
	C 813	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 814	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C 815	NCB21HK-103X	C CAPACITOR		
	C 816	NCB21EK-104X	C CAPACITOR		
	C 817	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 825	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 826	NCB21HK-103X	C CAPACITOR		
	C 827	NCB21EK-104X	C CAPACITOR		
	CN191	QGB1214K1-10S	CONNECTOR		
	CN192	QGA2001F1-07	CONNECTOR		
	CN193	QGB1214K1-18S	CONNECTOR		
	D 811	DSK10C-T1	DIODE		
	D 825	MA3075/M/-X	ZENER DIODE		
	D 826	MA3036/L/-X	ZENER DIODE		
	IC811	CXA2560Q	IC		
	IC825	LB1641	IC		
	Q 825	DTC114EKA-X	TRANSISTOR		
	R 191	NRSA02J-104X	MG RESISTOR		
	R 192	NRSA02J-181X	MG RESISTOR		
	R 291	NRSA02J-104X	MG RESISTOR		
	R 292	NRSA02J-181X	MG RESISTOR		
	R 811	NRSA02J-183X	MG RESISTOR		
	R 812	NRSA02J-101X	MG RESISTOR		
	R 814	NRSA02J-392X	MG RESISTOR		
	R 815	NRSA02J-223X	MG RESISTOR		
	R 816	NRSA02J-103X	MG RESISTOR		
	R 818	NRSA02J-125X	MG RESISTOR		
	R 819	NRSA02J-153X	MG RESISTOR		
	R 822	NRSA02J-222X	MG RESISTOR		
	R 825	NRSA02J-332X	MG RESISTOR		
	R 826	NRSA02J-330X	MG RESISTOR		
	R 827	QRT036J-1R5	OMF RESISTOR	1.5 5% 1/3W	
	VR191	QVP0009-333Z	SEMI V RESISTOR		
	VR291	QVP0009-333Z	SEMI V RESISTOR		

■ Electrical parts list(CD servo control board) Block No. 03

⚠	Item	Parts number	Parts name	Remarks	Area
	C 301	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 302	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 303	NCB21HK-103X	C CAPACITOR		
	C 304	NCS21HJ-3R0X	C CAPACITOR		
	C 305	NCB21EK-104X	C CAPACITOR		
	C 306	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 307	NCS21HJ-101X	C CAPACITOR		
	C 308	NCB21HK-273X	C CAPACITOR		
	C 309	NCB21HK-472X	C CAPACITOR		
	C 310	NCB21HK-103X	C CAPACITOR		
	C 311	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 312	NCB21HK-103X	C CAPACITOR		
	C 313	NCB21EK-104X	C CAPACITOR		
	C 314	NCB21EK-473X	C CAPACITOR		
	C 315	NCB21CK-224X	C CAPACITOR		
	C 316	NCS21HJ-470X	C CAPACITOR		
	C 317	NCS21HJ-561X	C CAPACITOR		
	C 318	NCB21HK-223X	C CAPACITOR		
	C 319	NCB21HK-223X	C CAPACITOR		
	C 320	NCB21HK-102X	C CAPACITOR		
	C 321	NCB21HK-102X	C CAPACITOR		
	C 322	NCB21HK-182X	C CAPACITOR		
	C 323	NCB21HK-122X	C CAPACITOR		
	C 324	NCS21HJ-680X	C CAPACITOR		
	C 325	NCB21HK-103X	C CAPACITOR		
	C 327	NCS21HJ-331X	C CAPACITOR		
	C 328	NCB21HK-103X	C CAPACITOR		
	C 331	NDC21HJ-100X	C CAPACITOR		
	C 332	NDC21HJ-100X	C CAPACITOR		
	C 333	NCB21HK-103X	C CAPACITOR		
	C 334	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 335	NCB21HK-103X	C CAPACITOR		
	C 336	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 337	NCB21HK-103X	C CAPACITOR		
	C 341	NCB21HK-102X	C CAPACITOR		
	C 342	NCB21HK-223X	C CAPACITOR		
	C 343	NCB21HK-223X	C CAPACITOR		
	C 344	NCB21HK-123X	C CAPACITOR		
	C 345	NCB21CK-334X	C CAPACITOR		
	C 346	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 347	NCB21HK-103X	C CAPACITOR		
	C 348	NCB21CK-334X	C CAPACITOR		
	C 349	NCB21CK-334X	C CAPACITOR		
	C 352	NCB21HK-103X	C CAPACITOR		
	C 363	NCB21HK-273X	C CAPACITOR		
	C 364	NCB21HK-223X	C CAPACITOR		
	C 382	NCB21HK-103X	C CAPACITOR		
	C 383	QERF1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 385	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 511	NCB21HK-103X	C CAPACITOR		
	C 541	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 542	NCB21HK-103X	C CAPACITOR		
	C 543	NCS21HJ-220X	C CAPACITOR		
	C 544	NCS21HJ-220X	C CAPACITOR		
	C 545	NCB21HK-103X	C CAPACITOR		
	C 551	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 552	NCB21HK-103X	C CAPACITOR		
	C 553	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 554	NCB21HK-103X	C CAPACITOR		
	C 555	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 556	QEKJ1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 771	QERF1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 772	NCS21HJ-821X	C CAPACITOR		
	C 773	NCS21HJ-121X	C CAPACITOR		
	C 782	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 784	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 791	QERF1AM-476Z	E CAPACITOR	47MF 20% 10V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C 792	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 871	QERF1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 872	NCS21HJ-821X	C CAPACITOR		
	C 873	NCS21HJ-121X	C CAPACITOR		
	C 882	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 884	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 891	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	CN144	QGB1214J1-18S	CONNECTOR		
	CN145	QGB1214J1-18S	CONNECTOR		
	CN301	QGB1214J1-12S	CONNECTOR		
	CN302	QGB1214J1-14S	CONNECTOR		
	CN541	QGB1214K1-18S	CONNECTOR		
	CN771	QNZ0095-001	CONNECTOR		
	D 381	DSK10C-T1	DIODE		
	D 382	DSK10C-T1	DIODE		
	D 383	DSK10C-T1	DIODE		
	D 541	1SS133-T2	SI DIODE IM		
	D 551	MTZJ10B-T2	ZENER DIODE		
	D 552	MA152WK-X	SI DIODE		
	D 555	MTZJ6.2B-T2	ZENER DIODE		
	D 556	MA152WK-X	SI DIODE		
	IC301	AN8806SB-W	IC		
	IC331	MN662748RPM	IC		
	IC361	BA6898FP-X	IC		
	IC362	BA6218	IC		
	IC511	HD74HC126FP-X	IC		
	IC541	UPD78053GC-A6	IC		
	IC771	BA3129F-W	IC		
	L 331	QQL231K-4R7Y	INDUCTOR		
	L 341	QQL231K-4R7Y	INDUCTOR		
	L 501	QQL231K-4R7Y	INDUCTOR		
	L 502	QQL231K-4R7Y	INDUCTOR		
	Q 301	2SB1322/RS/-T	TRANSISTOR		
	Q 383	2SB1322/RS/-T	TRANSISTOR		
	Q 551	2SB941A/QP/	TRANSISTOR		
	Q 552	2SD1994A/RS/-T	TRANSISTOR		
	Q 553	DTA114EKA-X	DIGITAL.TRANSIS		
	Q 554	DTC114EKA-X	TRANSISTOR		
	Q 555	2SD1994A/RS/-T	TRANSISTOR		
	Q 771	DTC114EKA-X	TRANSISTOR		
	R 301	NRSA02J-220X	MG RESISTOR		
	R 302	NRSA02J-220X	MG RESISTOR		
	R 303	NRSA02J-392X	MG RESISTOR		
	R 304	NRSA02J-563X	MG RESISTOR		
	R 305	NRSA02J-563X	MG RESISTOR		
	R 306	NRSA02J-123X	MG RESISTOR		
	R 307	NRSA02J-123X	MG RESISTOR		
	R 308	NRSA02J-123X	MG RESISTOR		
	R 309	NRSA02J-123X	MG RESISTOR		
	R 310	NRSA02J-125X	MG RESISTOR		
	R 311	NRSA02J-224X	MG RESISTOR		
	R 312	NRSA02J-223X	MG RESISTOR		
	R 313	NRSA02J-104X	MG RESISTOR		
	R 314	NRSA02J-273X	MG RESISTOR		
	R 315	NRSA02J-154X	MG RESISTOR		
	R 316	NRSA02J-274X	MG RESISTOR		
	R 317	NRSA02J-822X	MG RESISTOR		
	R 318	NRSA02J-822X	MG RESISTOR		
	R 319	NRSA02J-102X	MG RESISTOR		
	R 330	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 341	NRSA02J-333X	MG RESISTOR		
	R 342	NRSA02J-104X	MG RESISTOR		
	R 343	NRSA02J-105X	MG RESISTOR		
	R 344	NRSA02J-104X	MG RESISTOR		
	R 345	NRSA02J-272X	MG RESISTOR		
	R 346	NRSA02J-331X	MG RESISTOR		
	R 348	NRSA02J-334X	MG RESISTOR		

■ Electrical parts list(CD servo control board)

Block No. 03

⚠	Item	Parts number	Parts name	Remarks	Area
	R 349	NRSA02J-272X	MG RESISTOR		
	R 351	NRS181J-221X	MG RESISTOR		
	R 352	NRS181J-102X	MG RESISTOR		
	R 353	NRS181J-102X	MG RESISTOR		
	R 354	NRS181J-102X	MG RESISTOR		
	R 355	NRSA02J-102X	MG RESISTOR		
	R 356	NRSA02J-102X	MG RESISTOR		
	R 357	NRSA02J-102X	MG RESISTOR		
	R 358	NRSA02J-102X	MG RESISTOR		
	R 359	NRS181J-102X	MG RESISTOR		
	R 361	NRSA02J-183X	MG RESISTOR		
	R 362	NRSA02J-272X	MG RESISTOR		
	R 364	NRSA02J-183X	MG RESISTOR		
	R 365	NRSA02J-222X	MG RESISTOR		
	R 367	NRSA02J-272X	MG RESISTOR		
	R 368	NRSA02J-821X	MG RESISTOR		
	R 369	NRSA02J-472X	MG RESISTOR		
	R 370	NRSA02J-821X	MG RESISTOR		
	R 371	NRSA02J-683X	MG RESISTOR		
	R 511	NRSA02J-104X	MG RESISTOR		
	R 512	NRSA02J-223X	MG RESISTOR		
	R 513	NRSA02J-101X	MG RESISTOR		
	R 514	NRSA02J-473X	MG RESISTOR		
	R 515	NRSA02J-101X	MG RESISTOR		
	R 516	NRSA02J-473X	MG RESISTOR		
	R 517	NRSA02J-223X	MG RESISTOR		
	R 518	NRSA02J-331X	MG RESISTOR		
	R 519	NRSA02J-103X	MG RESISTOR		
	R 520	NRSA02J-104X	MG RESISTOR		
	R 521	NRSA02J-223X	MG RESISTOR		
	R 522	NRSA02J-223X	MG RESISTOR		
	R 540	NRSA02J-472X	MG RESISTOR		
	R 541	NRSA02J-473X	MG RESISTOR		
	R 542	NRSA02J-473X	MG RESISTOR		
	R 543	NRSA02J-473X	MG RESISTOR		
	R 544	NRSA02J-473X	MG RESISTOR		
	R 545	NRSA02J-473X	MG RESISTOR		
	R 546	NRSA02J-473X	MG RESISTOR		
	R 549	NRSA02J-473X	MG RESISTOR		
	R 551	QRT01DJ-R47X	MF RESISTOR	5% 1/1W	
	R 552	NRSA02J-100X	MG RESISTOR		
	R 553	NRSA02J-272X	MG RESISTOR		
	R 554	NRSA02J-471X	MG RESISTOR		
	R 555	NRSA02J-471X	MG RESISTOR		
	R 771	NRSA02J-273X	MG RESISTOR		
	R 772	NRSA02J-333X	MG RESISTOR		
	R 773	NRSA02J-123X	MG RESISTOR		
	R 782	NRSA02J-104X	MG RESISTOR		
	R 783	NRSA02J-153X	MG RESISTOR		
	R 784	NRSA02J-153X	MG RESISTOR		
	R 786	NRSA02J-153X	MG RESISTOR		
	R 787	NRSA02J-473X	MG RESISTOR		
	R 791	NRSA02J-103X	MG RESISTOR		
	R 792	NRSA02J-123X	MG RESISTOR		
	R 793	NRSA02J-473X	MG RESISTOR		
	R 794	NRSA02J-473X	MG RESISTOR		
	R 871	NRSA02J-273X	MG RESISTOR		
	R 872	NRSA02J-333X	MG RESISTOR		
	R 873	NRSA02J-123X	MG RESISTOR		
	R 882	NRSA02J-104X	MG RESISTOR		
	R 883	NRSA02J-153X	MG RESISTOR		
	R 884	NRSA02J-153X	MG RESISTOR		
	R 886	NRSA02J-153X	MG RESISTOR		
	R 887	NRSA02J-473X	MG RESISTOR		
	R 891	NRSA02J-103X	MG RESISTOR		
	R 892	NRSA02J-123X	MG RESISTOR		
	X 331	QAX0413-001Z	CRYSTAL		

⚠	Item	Parts number	Parts name	Remarks	Area
	X 541	QAX0414-001Z	CRYSTAL		

■ Electrical parts list(Front board)

Block No. 04

⚠	Item	Parts number	Parts name	Remarks	Area
	C 627	NCB21HK-103X	C CAPACITOR		
	C 628	NCS21HJ-221X	C CAPACITOR		
	C 629	NCB21EK-473X	C CAPACITOR		
	C 630	NCB21EK-473X	C CAPACITOR		
	C 631	NBE20JM-475X	TS E CAPACITOR		
	C 633	NCB21HK-103X	C CAPACITOR		
	C 634	NCS21HJ-681X	C CAPACITOR		
	C 635	NCB21EK-104X	C CAPACITOR		
	C 636	NCB21EK-104X	C CAPACITOR		
	C 638	NBE20JM-475X	TS E CAPACITOR		
	C 640	NBE21AM-106X	E CAPACITOR		
	C 641	NFV41HJ-183X	M CAPACITOR		
	C 642	NCZ1011-100X	C CAPACITOR		
	C 643	NCB21EK-104X	C CAPACITOR		
	C 644	NCB21HK-562X	C CAPACITOR		
	C 688	NBE20JM-475X	TS E CAPACITOR		
	CN601	QGB1218J2-16	CONNECTOR		
	CN650	QGB1218J2-08	CONNECTOR		
	D 610	SML-010LT/MN/-	LED		
	D 611	SML-210PT/JK/-X	LED		
	D 612	SML-210PT/JK/-X	LED		
	D 613	SML-210PT/JK/-X	LED		
	D 614	SML-210PT/JK/-X	LED		
	D 615	SML-210PT/JK/-X	LED		
	D 616	SML-210PT/JK/-X	LED		
	D 617	SML-210PT/JK/-X	LED		
	D 618	SML-210PT/JK/-X	LED		
	D 619	SML-210PT/JK/-X	LED		
	D 622	SML-210PT/JK/-X	LED		
	D 623	SML-210PT/JK/-X	LED		
	D 624	SML-210PT/JK/-X	LED		
	D 625	SML-210PT/JK/-X	LED		
	D 626	SML-210PT/JK/-X	LED		
	D 627	SML-210PT/JK/-X	LED		
	D 628	MA152WK-X	SI DIODE		
	D 629	MA152WK-X	SI DIODE		
	D 630	MA152WK-X	SI DIODE		
	D 631	SML-210PT/JK/-X	LED		
	D 665	SML-210PT/JK/-X	LED		
	D 666	SML-210PT/JK/-X	LED		
	D 667	SML-210PT/JK/-X	LED		
	D 668	SML-210PT/JK/-X	LED		
	D 669	SML-210PT/JK/-X	LED		
	D 670	SML-210PT/JK/-X	LED		
	D 671	SML-210PT/JK/-X	LED		
	D 672	SML-210PT/JK/-X	LED		
	D 673	SML-210PT/JK/-X	LED		
	D 674	SML-210PT/JK/-X	LED		
	D 675	SML-210PT/JK/-X	LED		
	D 676	SML-210PT/JK/-X	LED		
	D 677	SML-210PT/JK/-X	LED		
	D 678	SML-210PT/JK/-X	LED		
	D 679	SML-210PT/JK/-X	LED		
	D 680	SML-210PT/JK/-X	LED		
	D 681	SML-210PT/JK/-X	LED		
	D 682	SML-210PT/JK/-X	LED		
	D 683	SML-210PT/JK/-X	LED	J	
	D 683	SML-210LT/LM/-X	LED	U	
	D 684	SML-210LT/LM/-X	LED	U	
	D 684	SML-210PT/JK/-X	LED	J	
	D 685	SML-210PT/JK/-X	LED	J	
	D 685	SML-210LT/LM/-X	LED	U	
	D 686	SML-210PT/JK/-X	LED		
	D 687	SML-210PT/JK/-X	LED	J	
	D 687	SML-210LT/LM/-X	LED	U	
	IC627	LC75873NW	IC		
	IC632	LC75823W	IC		

⚠	Item	Parts number	Parts name	Remarks	Area
	IC688	RPM6938-SV4	IC		
	JS601	QSW0793-001	ROTARY ENCODER		
	L 640	NQLZ007-680X	INDUCTOR		
	L 641	NQR0303-001X	C FL TRANSF		
	L 642	NQLZ007-680X	INDUCTOR		
	Q 640	2SD2185/R/-X	TRANSISTOR		
	Q 641	2SD2185/R/-X	TRANSISTOR		
	R 601	NRSA02J-471X	MG RESISTOR		
	R 602	NRSA02J-471X	MG RESISTOR		
	R 605	NRSA02J-471X	MG RESISTOR		
	R 606	NRSA02J-471X	MG RESISTOR		
	R 607	NRSA02J-681X	MG RESISTOR		
	R 610	NRS181J-221X	MG RESISTOR		
	R 611	NRS181J-151X	MG RESISTOR		
	R 612	NRS181J-151X	MG RESISTOR		
	R 613	NRS181J-151X	MG RESISTOR		
	R 614	NRS181J-151X	MG RESISTOR		
	R 618	NRS181J-221X	MG RESISTOR		
	R 619	NRS181J-151X	MG RESISTOR		
	R 622	NRS181J-151X	MG RESISTOR		
	R 623	NRS181J-151X	MG RESISTOR		
	R 625	NRS181J-151X	MG RESISTOR		
	R 627	NRSA02J-184X	MG RESISTOR		
	R 628	NRSA02J-224X	MG RESISTOR		
	R 629	NRSA02J-103X	MG RESISTOR		
	R 630	NRSA02J-103X	MG RESISTOR		
	R 632	NRSA02J-473X	MG RESISTOR		
	R 633	NRSA02J-224X	MG RESISTOR		
	R 634	NRSA02J-103X	MG RESISTOR		
	R 635	NRSA02J-103X	MG RESISTOR		
	R 636	NRSA02J-103X	MG RESISTOR		
	R 639	NRSA02J-103X	MG RESISTOR		
	R 641	NRSA02J-472X	MG RESISTOR		
	R 642	NRSA02J-472X	MG RESISTOR		
	R 643	NRSA02J-681X	MG RESISTOR		
	R 650	NRSA02J-471X	MG RESISTOR		
	R 651	NRSA02J-471X	MG RESISTOR		
	R 652	NRSA02J-681X	MG RESISTOR		
	R 653	NRSA02J-821X	MG RESISTOR		
	R 654	NRSA02J-122X	MG RESISTOR		
	R 655	NRSA02J-202X	MG RESISTOR		
	R 658	NRSA02J-471X	MG RESISTOR		
	R 659	NRSA02J-471X	MG RESISTOR		
	R 660	NRSA02J-681X	MG RESISTOR		
	R 661	NRSA02J-821X	MG RESISTOR		
	R 662	NRSA02J-122X	MG RESISTOR		
	R 663	NRSA02J-202X	MG RESISTOR		
	R 664	NRSA02J-332X	MG RESISTOR		
	R 665	NRS181J-151X	MG RESISTOR		
	R 666	NRS181J-151X	MG RESISTOR		
	R 667	NRS181J-151X	MG RESISTOR		
	R 668	NRS181J-151X	MG RESISTOR		
	R 669	NRS181J-151X	MG RESISTOR		
	R 670	NRS181J-151X	MG RESISTOR		
	R 671	NRS181J-151X	MG RESISTOR		
	R 672	NRS181J-151X	MG RESISTOR		
	R 673	NRS181J-151X	MG RESISTOR		
	R 688	NRSA02J-103X	MG RESISTOR		
	R 689	NRSA02J-470X	MG RESISTOR		
	S 601	NSW0066-001X	TACT SWITCH		
	S 602	NSW0066-001X	TACT SWITCH		
	S 603	NSW0066-001X	TACT SWITCH		
	S 605	NSW0066-001X	TACT SWITCH		
	S 606	NSW0066-001X	TACT SWITCH		
	S 607	NSW0066-001X	TACT SWITCH		
	S 608	NSW0066-001X	TACT SWITCH		
	S 650	NSW0041-001X	TACT SWITCH		

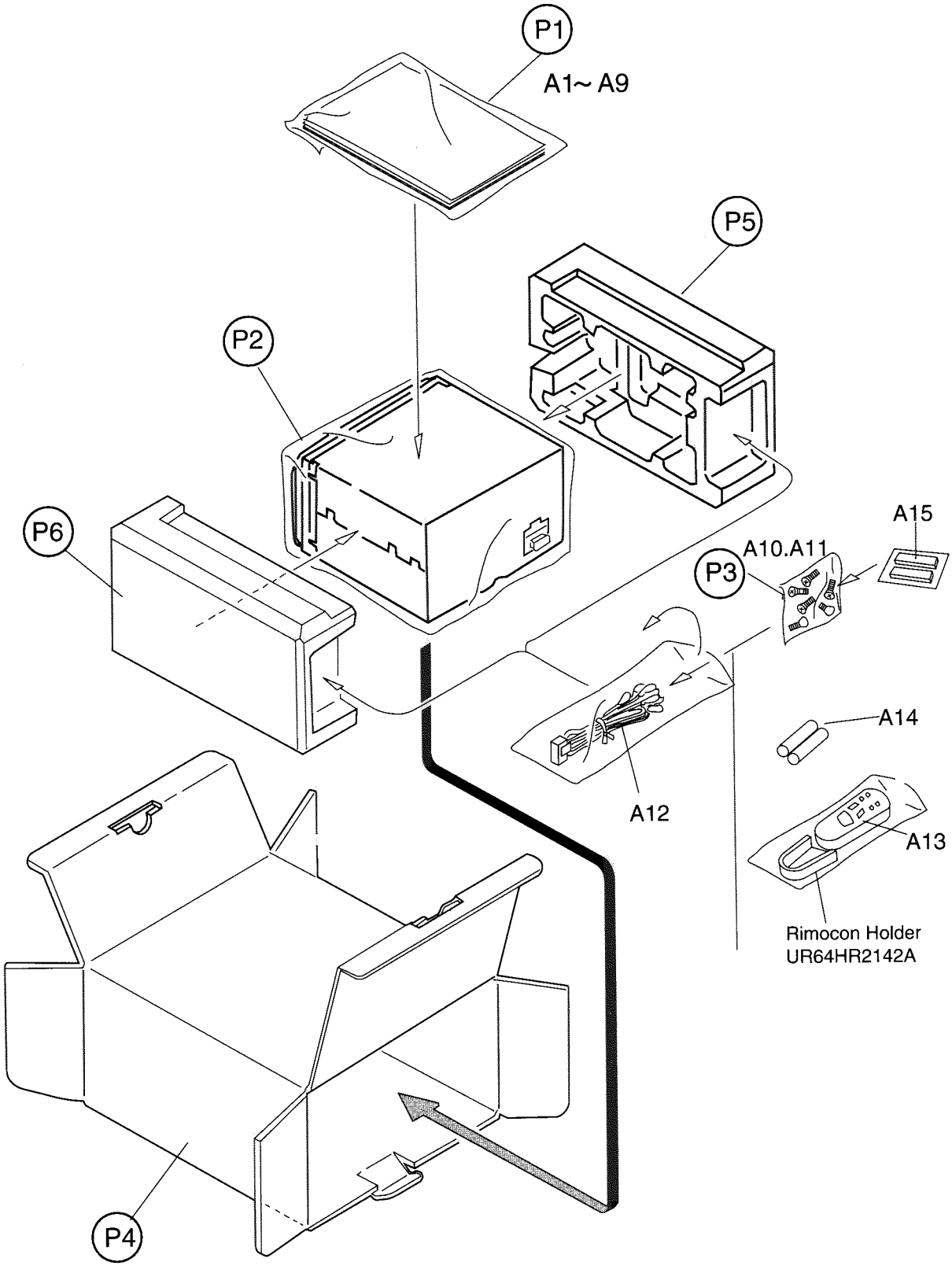
■ **Electrical parts list(Front board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	S 651	NSW0041-001X	TACT SWITCH		
	S 652	NSW0041-001X	TACT SWITCH		
	S 653	NSW0041-001X	TACT SWITCH		
	S 654	NSW0041-001X	TACT SWITCH		
	S 655	NSW0041-001X	TACT SWITCH		
	S 656	NSW0041-001X	TACT SWITCH		
	S 658	NSW0041-001X	TACT SWITCH		
	S 659	NSW0041-001X	TACT SWITCH		
	S 660	NSW0041-001X	TACT SWITCH		
	S 661	NSW0041-001X	TACT SWITCH		
	S 662	NSW0041-001X	TACT SWITCH		
	S 663	NSW0041-001X	TACT SWITCH		
	S 664	NSW0041-001X	TACT SWITCH		
	S 665	NSW0041-001X	TACT SWITCH		
	S 666	NSW0041-001X	TACT SWITCH		

-MEMO-

Packing materials and accessories parts list

Block No. M 4 M M
Block No. M 5 M M



■ Packing parts list

Block No. M4MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	QPA01703505P	POLY BAG	1	INSTRUCTIONS	
	P 2	QPC03004315P	POLY BAG	1	SET	
	P 3	QPA00801205	POLY BAG	1		
	P 4	LV31639-001A	CARTON	1	PRINTED IN JES	
	P 5	LV10221-001A	CUSHION(L)	1		
	P 6	LV10222-001A	CUSHION(R)	1		

■ Accessories parts list

Block No. M5MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	LVT0403-001A	INST.BOOK U	1	ENG CHI ARA	
		LVT0400-001A	INST.BOOK J	1	ENG SPA FRE	
	A 2	LVT0401-001A	INST.MANUAL	1	J	
		LVT0404-001A	INSTRUCT.SHEET	1	U	
	A 3	BT-51018-2	WARRANTY CARD	1	J ONLY	
		BT-52001-4	WARRANTY CARD	1	J ONLY	
	A 4	BT-51020-2	J=REGIST CARD	1	J ONLY	
	A 5	BT-20071B	JVC CENTER LIST	1	J ONLY	
	A 6	LVT0326-001C	TROUBLE SHOOTIN	1	J ONLY	
		LVT0328-001B	TROUBLE SHOOTIN	1	J ONLY	
	A 7	LV41155-001A	INFO. SHEET	1	J ONLY	
		LV41679-001A	INFO. SHEET	1	J ONLY	
	A 8	LVT0430-001A	CAUTION SHEET	1	J ONLY	
	A 9	VJC3300-001	BLIND PLATE	1		
	A 10	QYSDSP5006Z	SCREW	8		
	A 11	QYSSSP5006Z	SCREW	8		
	A 12	QAM0012-003	16P CORD ASS'Y	1		
	A 13	QAL0075-001	REMOCON	1		
	A 14	----------	BATTERY	1		
	A 15	VYTT682-001	DOUBLE FACE	1		

KW-XC770

JVC

VICTOR COMPANY OF JAPAN, LIMITED
MOBILE ELECTRONICS DIVISION,10-1,1-chome,Ohwatari-machi,maebashi-city,371-8543,Japan

(No.49527)

Printed in Japan
200001(V)