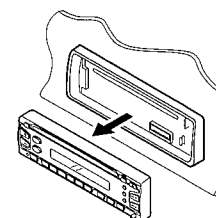
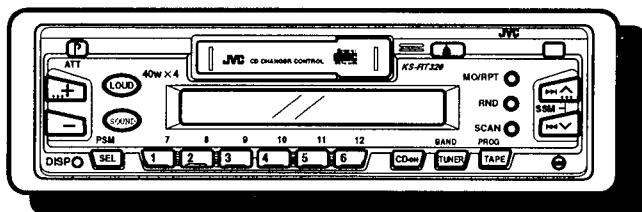


JVC

SERVICE MANUAL

CASSETTE CAR RECEIVER

KS-RT320 C/J



Area Suffix

C..... Canada
 J..... U.S.A

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CAUTION

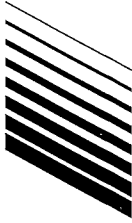
Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

2. Instructions

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

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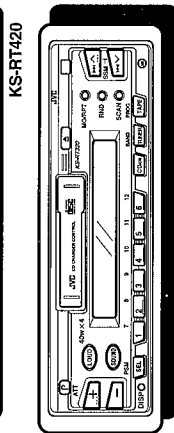
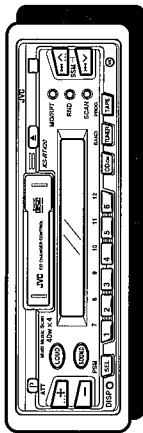
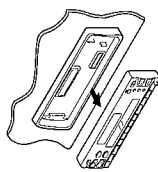
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CASSETTE RECEIVER KS-RT420/KS-RT320

RECEPTOR-REPRODUCTOR DE CASSETTE
KS-RT420/KS-RT320

RADIOCASSETTE KS-RT420/KS-RT320



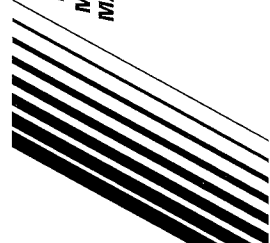
For installation and connections, refer to the separate manual.
Para la instalación y las conexiones, refiérase al manual independiente.
Pour l'installation et les raccordements, se référer au manuel séparé.

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. _____

J version

INSTRUCTIONS
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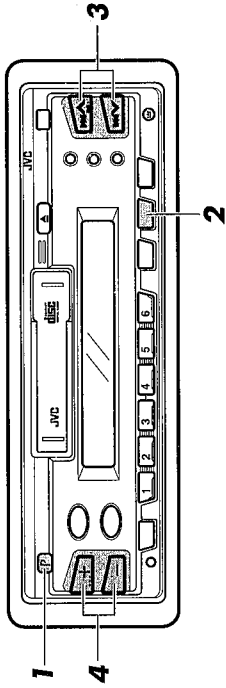
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BEFORE USE


- * **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 of the car....**
If the car has been parked for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

RADIO OPERATION

Listening to the radio



- 1**  Switch on.
- 2**  FM 1 → FM 2 → FM 3 → AM Select the band.
FM1, FM2, FM3 have the same frequency range and up to 6 stations can be preset in each band.

- 3**  Press to seek up.
Tune. Use manual or seek tuning to find a station (see page 7).
Press to seek down.

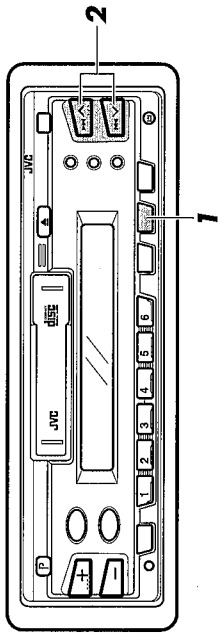
- 4**  Adjust volume.

Note:
Power (P)/Attenuator (ATT) button. When this button is pressed during operation, the volume drops and the ATT indicator blinks. Press again to return to the original volume.
Power (P): Press to turn the power ON.
Press for more than 1 second to turn the power OFF.

Storing the stations in memory automatically

Strong-Station Sequential Memory (SSM)

This function searches for FM stations broadcasting strong signals. The 6 strongest stations are held in memory in the order of increasing frequency, and can be recalled with the Preset Station buttons No. 1 to No. 6.



- 1** BAND TUNER FM 1 → FM 2 → FM 3 Select the band. (FM1, FM2 or FM3)

- 2** Press the SSM buttons (⏪, ⏩) together for more than 2 seconds.

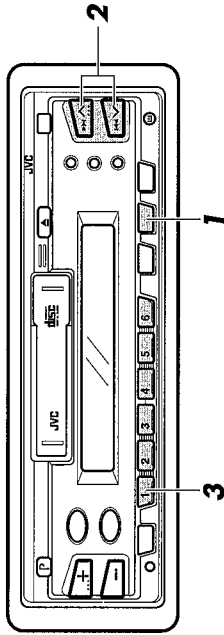
- The strongest signals in the band you are listening to (FM1, FM2 or FM3) will be searched and selected automatically. Six stations are preset in the Preset Station buttons (No. 1 to No. 6), in the order of increasing frequency. (During this operation, "SSM" lights in the display.) The unit then automatically tunes to the broadcast stored in Preset Station button "1".

Storing the desired stations in memory

Manual Station Preset

You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) as follows:

- Example (when presetting Preset Station button "1" of the FM1 band to an FM station at 88.3 MHz)



- 1** BAND TUNER FM 1 Select the FM1 band using the Band (BAND) button.

- 2** Use manual or seek tuning to find a station that you want to store in memory (see page 7).

- 3** Press Preset Station button "1" for more than 2 seconds. (When "1" blinks in the Preset Station display, the station is preset.)
- Repeat the above procedure for the other 5 Preset Station buttons and other bands (FM2, FM3 and AM).

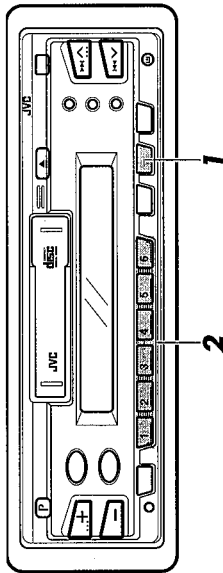
Notes:


- A previously preset station is erased when a new station is stored in memory.
- The preset stations are erased when the power supply to the memory circuit is interrupted during battery replacement, etc. When this occurs, preset the stations again.

ENGLISH

Receiving the preset stations

Preset Station Tuning



- 
1 FM 1 → FM 2 → FM 3 → AM
 Select the band.

- 2** Press the required Preset Station buttons (No. 1 to No. 6).

Manual Tuning

To set the Manual mode, press and hold the tuning button (▲ or ▼). The "M" indicator blinks. Press the tuning button to tune to the desired frequency.

Frequency scan steps are as follows:

- FM — in 200 kHz (or 50 kHz) units
- AM — in 10 kHz (or 9 kHz) units
- About 5 seconds after completing manual tuning, the unit switches back to Seek mode and the "M" indicator goes out.

Seek Tuning

Press the ▲ or ▼ button; the unit tunes to higher or lower frequencies. When a broadcast is received, tuning stops automatically and the broadcast can be heard.

Scan Tuning



When the Scan button is pressed, automatic scanning starts towards the higher frequencies. Each time a broadcast is received, the displayed frequency blinks and it is monitored for approx. 5 seconds. If you want to listen to the tuned frequency, press the Scan button again to turn automatic scanning off.

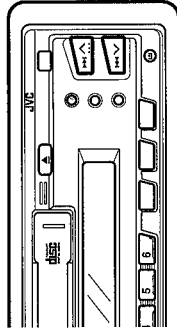
When an FM stereo broadcast is noisy

Mono Button

Set to MONO mode when a stereo FM broadcast is too noisy and cannot be heard satisfactorily.

Antenna Noise

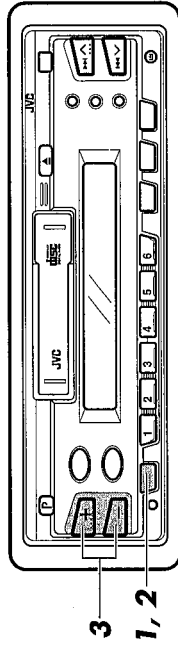
If you can hear static noise when listening to either AM or FM, check for loose antenna connections.




Using this unit in an area other than North or South America


To Change The Intervals Between Channels

When this unit is purchased, the channel intervals are set to 10 kHz for AM and 200 kHz for FM. If the unit is used in an area other than North or South America, adjust as follows:



- 1**  → CLK → ADJ Press the PSM button for more than 2 seconds.

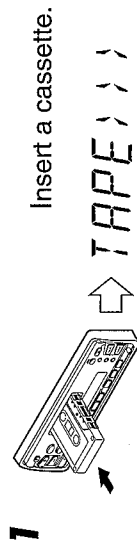
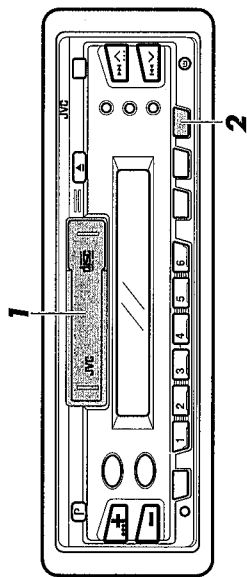
- 2**  → AREA → AREA 1 Select the "AREA" mode.

- 3**  → AREA 2 → AREA 2 Set the "AREA 2" mode.
 - Performing this procedure sets the channel intervals to 9 kHz for AM and 50 kHz (Manual mode), 100 kHz (Seek mode) for FM.
 - To change back to the original intervals, repeat the above procedures. In procedure 3, press the "-" button to set to the "AREA 1" mode.

ENGLISH

TAPE OPERATION

Listening to a tape



1 Insert a cassette.

2 Select program (tape direction).

Notes:

- Do not touch the highly-polished head with any metallic or magnetic tools.
- Never play dirty or dusty tapes since they will greatly degrade the sound and performance of your unit. Always keep your tapes clean.
- Cassettes can be inserted/ejected even when the power is OFF.

Ignition Key-Off Release (Key-On Play) Mechanism

When the ignition key is turned OFF, the "key-OFF release" mechanism automatically releases the tape from the magnetic head, then enters Standby mode. When the ignition is turned ON, Playback mode automatically restarts.

Auto-Reverse Mechanism

When the tape reaches its end, this mechanism automatically switches over to play back the other side. To listen to the other side of the tape during playback, press the PROG button. The change in direction can be checked in the Tape Direction indicator.

ENGLISH

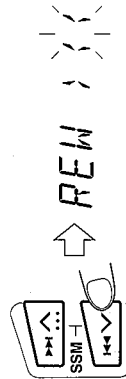
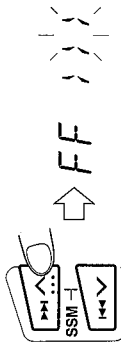


How To Fast-Forward And Rewind Tapes (KS-RT420)

Press the **FF** button for more than 1 second to fast-forward the side being played; when the tape end is detected, the tape is reversed and playback starts from the beginning of the other side. Press the **REW** button for more than 1 second to rewind the tape to its beginning, where playback restarts. Press the PROG button to start playback from the current position during fast-forward or rewinding.

How To Fast-Forward And Rewind Tapes (KS-RT320)

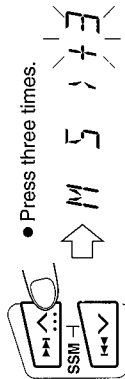
Press the **FF** button to fast-forward the side being played; when the tape end is detected, the tape is reversed and playback starts from the beginning of the other side. Press the **REW** button to rewind the tape to its beginning, where playback restarts. Press the PROG button to start playback from the current position during fast-forward or rewinding.



Multi Music Scan Operation (KS-RT420 only)

This function enables you to automatically start playback from the beginning of a specified tune (by skipping over a maximum of 9 tunes), in forward or reverse. During play, press the **MS** or **MS** button once for each tune you wish to skip.

- Example (When skipping forward to the 3rd tune)



- When the beginning of the specified tune is detected, the indication number goes out and tape playback starts.
- During scanning, when the tape is rewound to its beginning in Rewind mode, playback starts from the beginning of that side. When the tape reaches its end in Fast-Forward mode, it is reversed and played from the beginning of the other side.

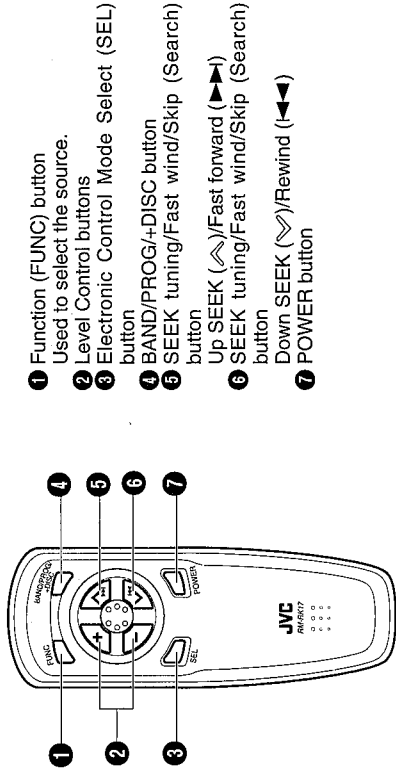
Notes:

- In the following cases, the Multi Music Scan function mechanisms may not operate correctly. These are NOT malfunctions; use the mechanisms to suitably accommodate the materials and situations.
 - Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.
 - Tapes with tunes recorded at low recording levels.
 - Tapes with short non-recorded sections.
 - Tapes with high level noise or humming between tunes.

REMOTE CONTROLLER (KS-RT420 only)

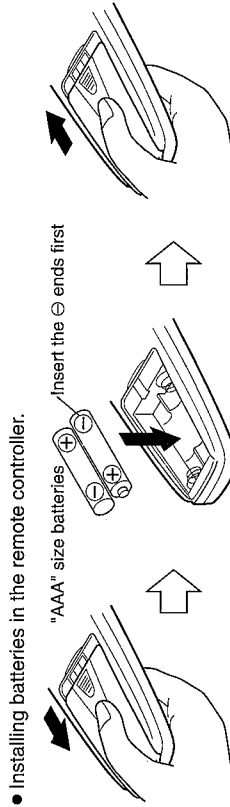


The following operations can be performed using the remote controller.
 • Check the functions of the operation buttons carefully and operate them correctly.



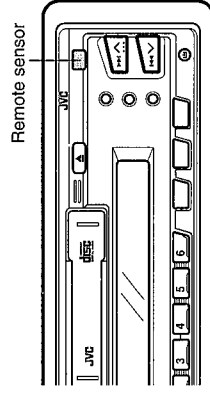
- 1 Function (FUNC) button
Used to select the source.
- 2 Level Control buttons
- 3 Electronic Control Mode Select (SEL) button
- 4 BAND/PROG/+DISC button
- 5 SEEK tuning/Fast wind/Skip (Search) button
Up SEEK (↗)/Fast forward (▶▶)
- 6 SEEK tuning/Fast wind/Skip (Search) button
Down SEEK (↘)/Rewind (◀◀)
- 7 POWER button

• **Battery replacement**
 When the remote controller operation becomes unstable or the distance from which remote controller is possible becomes shorter, replace the batteries with new ones.



Using The Remote Controller

To use the remote controller, point it at the remote sensor and press the buttons gently and firmly.
 Do not expose the remote sensor to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the remote sensor and the remote controller.



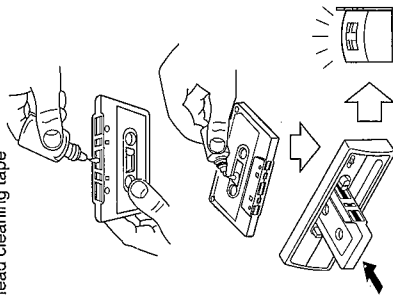
ENGLISH



For use as long as possible

Cleaning The Head

- Head cleaning tape



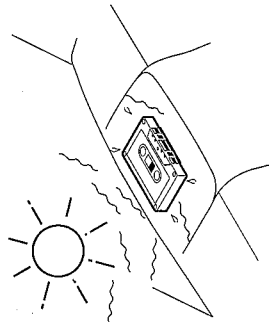
Heads are important as they pick up sound. When they become dirty, the following symptoms become noticeable:

- The sound quality is reduced.
- The sound level is decreased.
- The sound can be heard intermittently. (Sound drop occurs.)

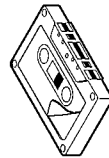
These are NOT malfunctions. However, before these symptoms appear, clean the heads after every 10 hours of use using a wet-type head cleaning tape, available from an audio store. For more details, refer to the Instructions of the Head Cleaning Tape.

Tape Care Hints

It is very important to keep your tapes clean. Always return them to their storage boxes after playback.
 Never store tapes in direct sunlight, high humidity or extremely hot temperatures.
 Never play dirty, dusty tapes or the tapes with peeling labels---they can damage the unit.
 Slack tape in a cassette can cause trouble by becoming entangled with the mechanism.



Incorrect



- Always remove cassettes from the loading slot when not listening to them, as the tape may become slack.

Note:
 Your unit requires very little attention, but you will be assured of top performance only if you follow above notes.

CLOCK ADJUSTMENT



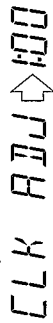
Selecting The Clock Display

Each time the DISP button is pressed, the display is switched between the listening mode and the clock mode.

How to adjust the clock



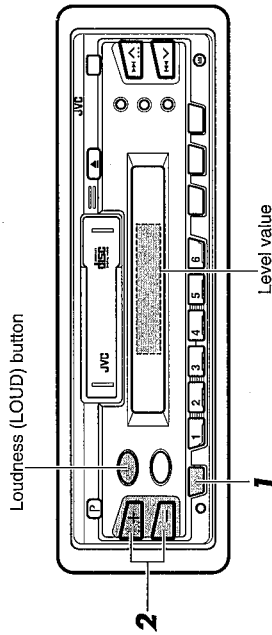
Press the PSM button for more than 2 seconds to select the "CLK ADJ" mode.



- Minute
 - Hour
- Adjust.

Adjusting the sound characteristics

Audio Level Control



- Select the control mode with the SEL button.
- Adjust the level with the level control buttons.

Electronic control mode	1 SEL Select.	2 Adjust.
VOL	Volume	Decreases (00 - 50) Boosts
BAS	Bass	Decreases (-6) - (+6) Boosts
TRE	Treble	Decreases (-6) - (+6) Boosts
FADJ	Fader	Rear (R6 - F6) Front
BAL	Balance	Left (L6 - R6) Right



1



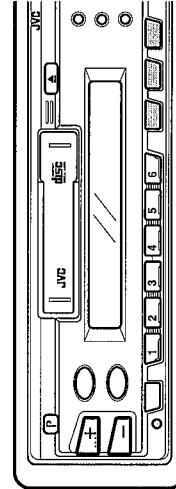
2

OTHER FUNCTIONS



Selecting the desired source with the power off

Even when the power is off, pressing the button shown below switches on the power and selects the source.



Function mode	Operations
CD-CH CD	Place a CD in the CD changer connected to this unit and press this button to start CD play.
BAND TUNER	When this button is pressed, the tuner is engaged.
PROG TAPE	When this button is pressed with a tape loaded, tape playback begins.

- Pressing the DISP button switches on the power and after displaying the clock mode for 5 seconds, switches it off.

Fader Control

- When used in a 4-speaker system
Use this control to balance the volume levels of the front and rear speakers.
- When used in a 2-speaker system
Set this control to the center position ("00" is displayed).

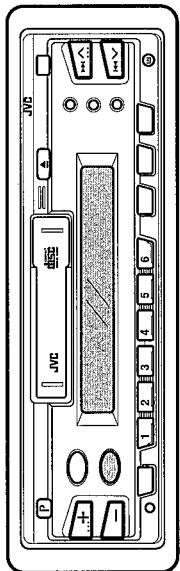
Loudness Control

- At low volumes, the human ear is less sensitive to low and high frequencies. When the volume is low, set the loudness control to ON to boost these frequencies and produce well-balanced sound.



Selecting the sound characteristics suitable to the music genre

Sound Control Memory (factory preset)

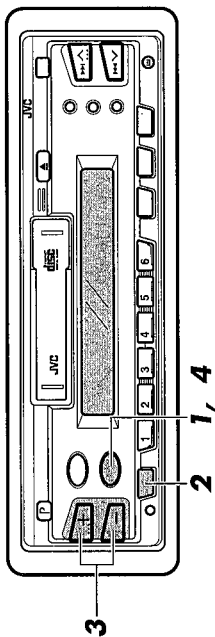


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Changing the sound setting as required

Sound Control Memory (user preset)

The Sound mode's preset values can be changed to suit your tastes.
(Example: To emphasize bass sound with beat mode levels 2 to 5.)



1 Press the SOUND button to select the mode to be changed (Beat, Soft, Pop).

2 **+2**
(within 5 seconds)
Press the SEL button to select the sound characteristics to be changed (Bass, Treble, Loudness).

3 **+5**
(within 5 seconds)
Set the desired level with the level control button.

4 **-**
(within 5 seconds)
Press the SOUND button to store the set level in memory, and hold it for more than 2 seconds. (The mode indication blinks when the level has been stored in memory.)
* To change other preset values, repeat the above procedure.
* To restore the preset value, repeat the above procedure using the level value for the Sound control memory (factory preset) as a reference.

Sound mode	Preset level value		
	Bass	Treble	Loudness
SCM OFF Off (flat characteristics)	00	00	On
BEAT Beat For music with a heavy beat, such as rock or disco music.	+2	00	On
SOFT Soft For quiet background music.	+1	-3	Off
POP Pop For light music including popular and vocal music.	+4	+1	Off



Setting each mode to suit your needs

Preferred Setting Mode (PSM) Control

The PSM has been set at the factory, but it can be set to suit your needs.

1. Press the PSM button for more than 2 seconds to set the PSM. Press the PSM button to select each mode.
2. Set the desired mode with the level control buttons (+, -).

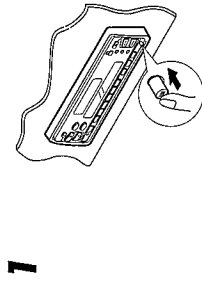
1 Select.	2 Set.		Factory-preset settings
CLK ADJ Clock adjustment	Hour	Minute	1:00
BEEP (KS-RT420 only) Beep	Off	On	On
AREA Area	AREA 1	AREA 2	AREA 1

- Beep: When the BEEP setting is on, pressing operation buttons other than (+) or (-) will play an electronic "beep" sound.

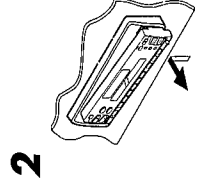
When leaving the car

How To Detach The Control Panel

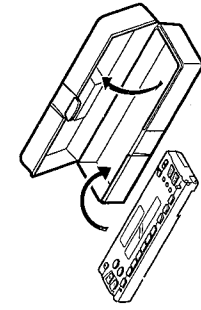
Before detaching the control panel, be sure to turn off the power.



1 Press the Control Panel Release (⏏) button to detach the control panel.

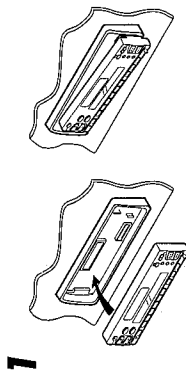


2 Lift and pull the control panel out of the main unit, as shown.

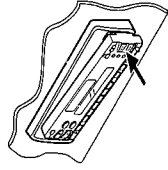


3 Put the control panel in the provided case for protection.

How To Attach The Control Panel



1 Insert the left side of the control panel into the groove on the left side of the holder.



2 Press the right side to set it correctly.

Cleaning The Connector

If the control panel is frequently detached, a poor connection may occur with the control panel holder. To minimize this possibility, periodically wipe the connector with a cotton swab or cloth moistened with alcohol, being careful not to damage the connector terminals.

Note:

- Be careful not to damage the connector terminals when attaching/detaching the control panel or while the control panel is removed.

ENGLISH

Using the other equipment

CD CHANGER OPERATION



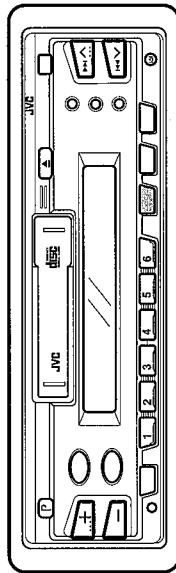
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PRECAUTIONS

- This unit is for the control of a JVC CD Automatic Changer (to be purchased separately).
- For correct usage, refer to the Instructions of the CD Automatic Changer.
- When there are no discs in the CD changer's magazine or the discs are inserted upside down, "NO DISC" will be shown in the display. If this happens, remove the magazine and set the discs correctly.
- When "RESET 1 - RESET 8" is shown in the display of the unit, confirm that the cord is connected and press the RESET button of the CD Changer.

Playing all tracks

Playing Compact Discs



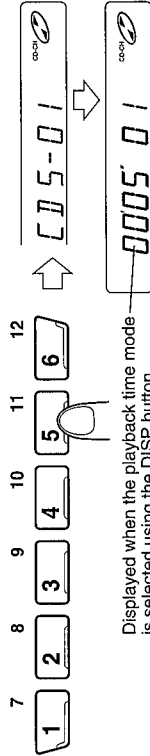
- When all tracks on the first disc have been played, the second disc starts automatically from the first track.



Selecting a disc

Disc Selection

Example: (To specify disc 5)



Direct disc selection

- Press the disc number button that corresponds to the desired disc (press it quickly to select No. 1 through No. 6 or for more than 1 second to select No. 7 through No. 12). The disc number and track number light and CD play starts.



- Disc select button (Using the remote controller) (KS-RT420 only)

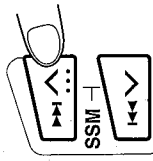
Press the Disc Select button (+ DISC) to select the required disc.

Example: when the third disc is currently playing...

Each time the + DISC button is pressed, the 4th, 5th, 6th ... and 1st disc will be selected in sequence.

Skipping to the beginning of a track

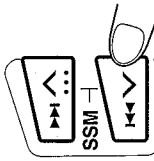
Skip Playback



- During playback, you can easily skip to the beginning of the previous, current, or next track, and playback will start again from there.

How to listen to the next track...

Press the (▶▶) button once to skip to the beginning of the next track.



How to listen to the previous track...

Press the (◀◀) button once to skip to the beginning of the current track, then again to skip to the previous track.

- * When Disc Select and Skip operations are performed in sequence, the required track from a designated disc can be selected.



TROUBLESHOOTING

What appears to be trouble is not always serious. First make sure....

ENGLISH

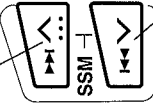


Locating a required position on the disc

Search Playback

Keep pressed for fast-forward searching.

- The required position can be located using fast-forward or reverse search during playback.
- Hold down the button to commence searching. (The search speed increases the longer the button is pressed.)
- Since a low sound level can be heard (approx. one quarter of playback), monitor the sound and release the button when the required position is located.



Keep pressed for fast-reverse searching.

Playing back tracks at random

Random Playback

Each time the RND button is pressed, the mode changes from Random 1 (the RND indicator lights) to Random 2 (the RND indicator blinks) to Clear.



Random 1:
Randomly plays all tracks on the current disc once, then on each of the following discs in order.

Random 2:
Randomly selects and plays tracks from all of the CDs in the loaded magazine.

Playing back tracks repeatedly

Repeat Playback

Each time the RPT button is pressed, the mode changes from RPT 1 (the RPT indicator lights) to RPT 2 (the RPT indicator blinks) to Clear mode, in this order.



RPT 1: Single track repeat
The current or specified track will be played back repeatedly.

RPT 2: All-tracks repeat of one disc
All tracks on the current or specified CD will be played back repeatedly.

Symptoms	Causes	Remedies
* Cassette tape can't be loaded.	—	Press the ▲ button and insert once again.
* Cassette tape gets hot.	It is loaded in the wrong way. This is not a malfunction.	Insert the cassette with the exposed tape facing right.
* Tape sound is at very low level and sound quality is degraded.	The tape head is dirty.	Clean it regularly with a head cleaning tape.
* Sound is sometimes interrupted.	The cord connection is incorrect.	Confirm the cord connections.
* Sound cannot be heard from the speakers.	The volume control is turned to the minimum level. The cord connection is incorrect.	Adjust it to the optimum level. Confirm the cord connections.
* Auto tuning doesn't work.	Broadcast signal strength is too weak.	Tune to stations manually.
* "NO DISC" is displayed.	CDs aren't set in the magazine. CDs are inserted incorrectly.	Insert CDs into the magazine. Make sure they are correctly inserted.
* "RESET 8" is displayed.	This unit isn't connected to a CD changer correctly.	Connect this unit to it correctly and press the reset button of CD changer.
* "RESET 1—RESET 7" is displayed.	—	Press the reset button of CD changer.

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output: (Front) 40 watts per channel (Rear) 40 watts per channel
 Continuous Power Output (RMS): (Front) 16 watts per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8% total harmonic distortion.
 (Rear) 16 watts per channel into 4 Ω, 40 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 to 20,000 Hz
 Signal-to-Noise Ratio: 70 dB
 Line-Out Level/Impedance: 1.0 V/20 kΩ load (250 nWb/m)

RADIO SECTION

Frequency Range
 FM: 87.5 to 107.9 MHz
 (with channel interval set to 200 kHz)
 87.5 to 108.0 MHz
 (with channel interval set to 50 kHz)
 AM: 530 to 1,710 kHz
 (with channel interval set to 10 kHz)
 531 to 1,602 kHz
 (with channel interval set to 9 kHz)
 [FM Tuner]
 Usable Sensitivity: 11.3 dB (1.0 μV/75 Ω)
 50 dB Quieting Sensitivity: 16.3 dB
 (1.8 μV/75 Ω)
 Alternate Channel Selectivity:
 (400 kHz): 65 dB
 Frequency Response: 40 to 15,000 Hz
 Stereo Separation: 35 dB
 Capture Ratio: 1.5 dB
 [AM Tuner]
 Sensitivity: 20 μV
 Selectivity: 35 dB

CASSETTE DECK SECTION

Wow & Flutter: 0.11% (WFRMS)
 Fast-Wind Time: 100 sec. (C-60)
 Frequency Response: 50 to 16,000 Hz (±3 dB)
 Signal-to-Noise Ratio: 54 dB
 Stereo Separation: 40 dB

GENERAL

Power Requirement
 Operating Voltage: DC 14.4 volts
 (11 to 16 volts allowance)
 Grounding System: Negative ground
 Dimensions (W x H x D) Installation Size: 182 x 52 x 150 mm (7-3/16" x 2-1/16" x 5-15/16")
 Panel Size: 188 x 58 x 14 mm (7-7/16" x 2-9/16" x 5/8")
 Gross Weight: 2.0 kg (4.5 lbs) (KS-RT420)
 1.9 kg (4.2 lbs) (KS-RT320)

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.

ENGLISH

Muchas gracias por haber comprado este producto de JVC. Tenga a bien leer detenidamente este manual de instrucciones antes de la operación de la unidad, para asegurarse de que la entiende perfectamente y para obtener una larga vida de servicio de la misma.

INDICE (Para KS-RT420/RT320)

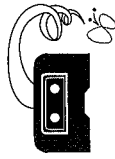
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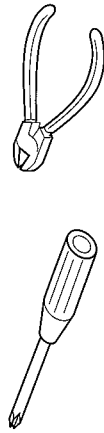
OTRAS FUNCIONES 35

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 Método para colocar el panel de control 40



JVC

KS-RT420 KS-RT320 Installation/Connection Manual



J version
VNC2400-120S

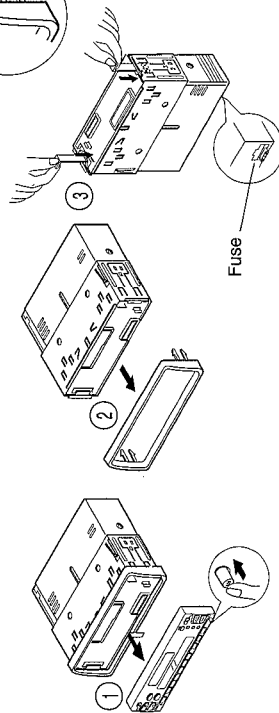
ENGLISH

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

INSTALLATION (IN-DASH MOUNTING)

• The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

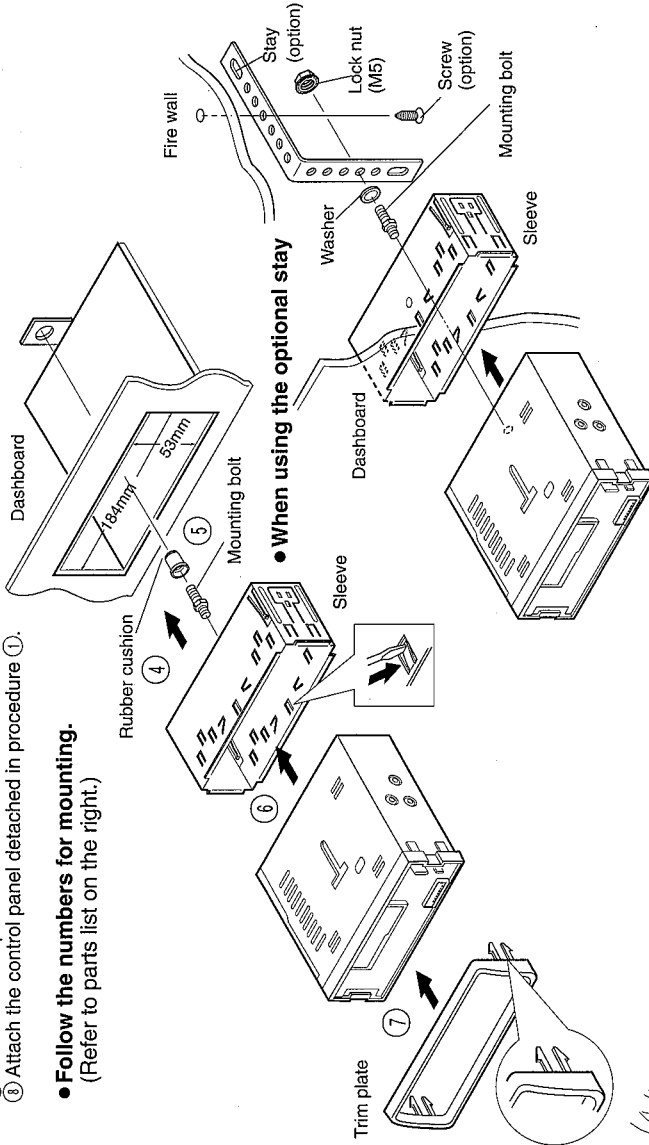
- 1 **Before mounting:** Press the Control Panel Release (▶) button to detach the control panel.
- 2 Remove the trim plate.
- 3 Stand the unit on end and insert the 2 handles between the unit and the sleeve as shown. Disengage the sleeve lock and remove the sleeve.



Note:
When you stand the unit on end, be careful not to damage the fuse on the bottom.

- 4 Install the sleeve in the dashboard.
* After the sleeve is correctly installed in the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as shown.
- 5 Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.
- 6 Slide the unit into the sleeve until they are locked together.
- 7 Attach the trim plate.
- 8 Attach the control panel detached in procedure 1.

• **Follow the numbers for mounting.**
(Refer to parts list on the right.)

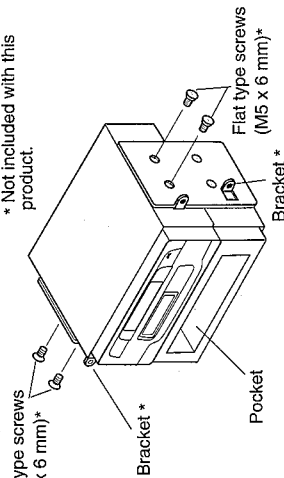


• **When using the optional stay**

When installing the unit without using the sleeve.

In a Toyota for example, first remove the car radio and install the unit in its place.

* Not included with this product.

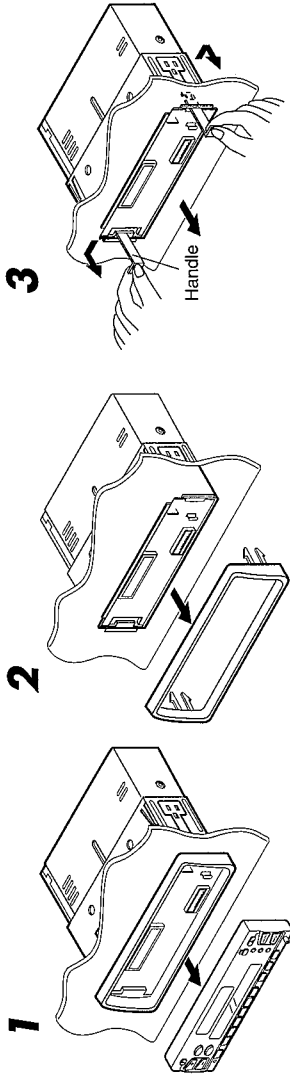


Note:

- When installing the unit on the mounting bracket, make sure to use the 6 mm-long screws. If longer screws are used, they could damage the unit.

Removing the unit

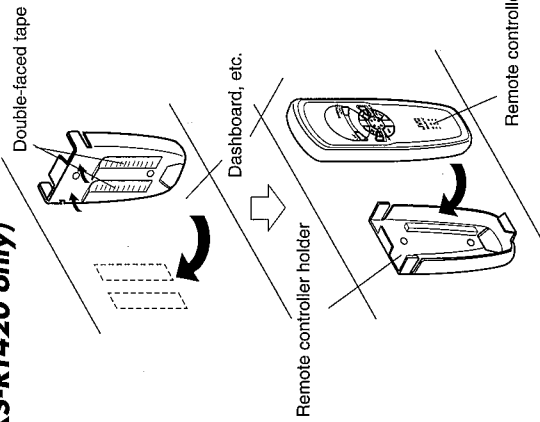
- Before removing the unit, release the rear section.



Remove the control panel.

Remove the trim plate.

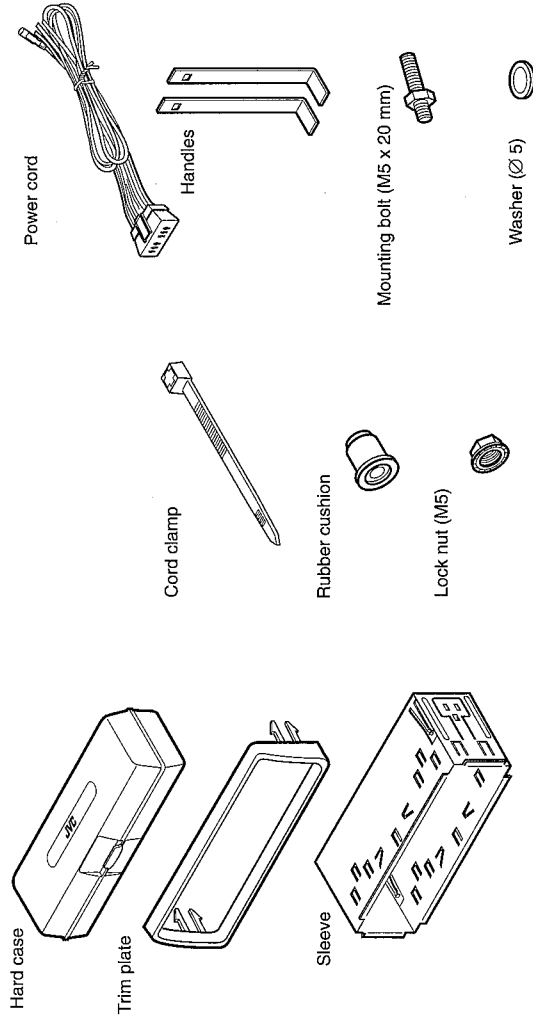
Installation (Remote controller (KS-RT420 only))



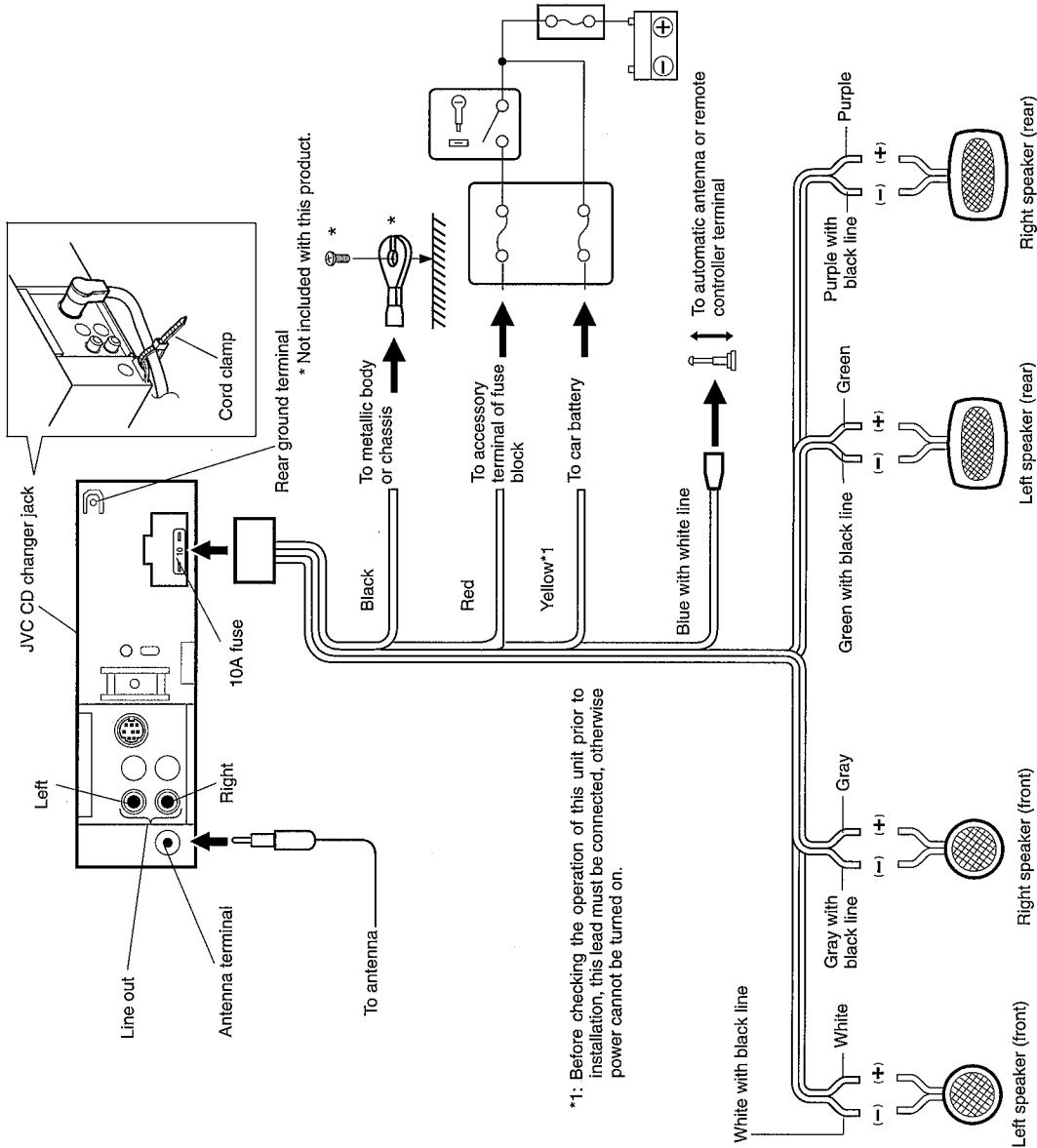
- Wipe clean the place where the double-faced tape is to be attached before attaching it.

Parts list for installation and connection

The following parts are provided with this unit. After checking them, please set them correctly.



A.4-Speaker Connections



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 for a **12-volt DC negative ground**. 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.**

TROUBLESHOOTING

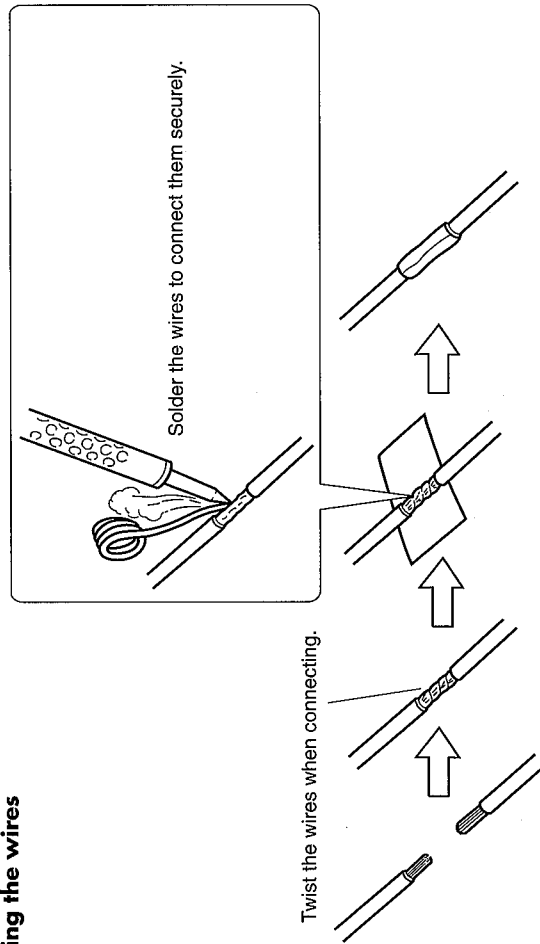
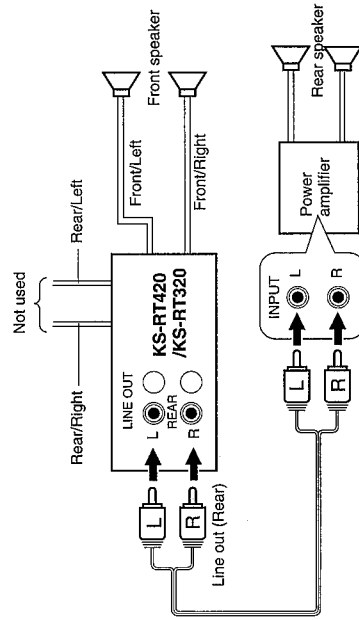
- **The fuse blows.**
 - * Is the REMOTE output lead pinched in chassis, causing a short-circuit?
- **Power cannot be turned on.**
 - * Is the yellow lead connected?
- **No sound from the speakers.**
 - * Is the speaker output lead short-circuited?
- **Sound is distorted.**
 - * Is the speaker output lead grounded?
 - * Are the "L" terminals of L and R speakers grounded in common?
- **Unit becomes hot.**
 - * Is the speaker output lead grounded?
 - * Are the "L" terminals of L and R speakers grounded in common?

Connecting the wires

B. 4-Speaker connections when adding a power amplifier

Since this unit has line-out terminals, an amplifier and other equipment can be used to upgrade your car stereo system.

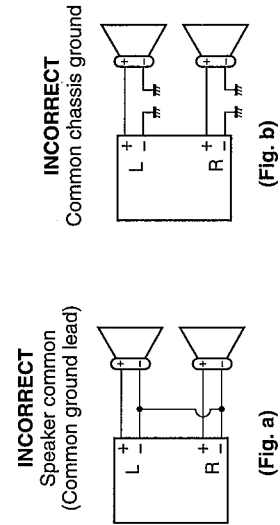
- With an amplifier, connect this unit's line-out terminals to the amplifier's line-in terminals.



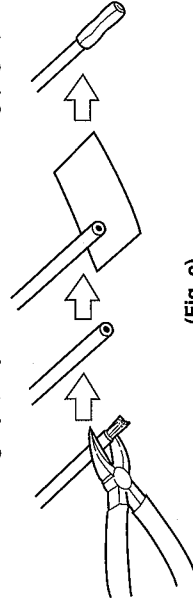
CAUTIONS:

As this unit uses BTL (Balanced Transformerless) amplifier circuitry (floating ground system), please comply with the following:

- Do NOT connect the black-lined speaker leads to a common point (Fig. a).
- Do NOT connect the speaker leads to the metal body or chassis (Fig. b).



- Cover the terminals of the leads that are NOT used with insulating tape, to prevent them from shorting (Fig. c).



C. Automatic Antenna Connections

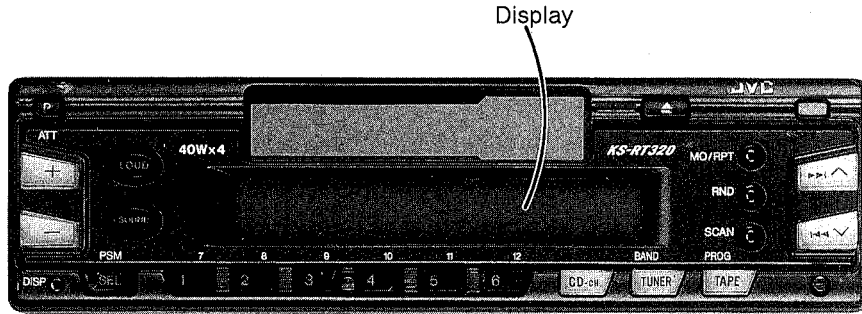
To use the automatic antenna, connect its remote lead (blue with white line) terminal. For details of installation, see the automatic antenna's instruction Manual.

D. Memory Back-Up Lead

Connect this lead (yellow) to a LIVE power source (supplied even when vehicle ignition is OFF).

1 Location of main parts

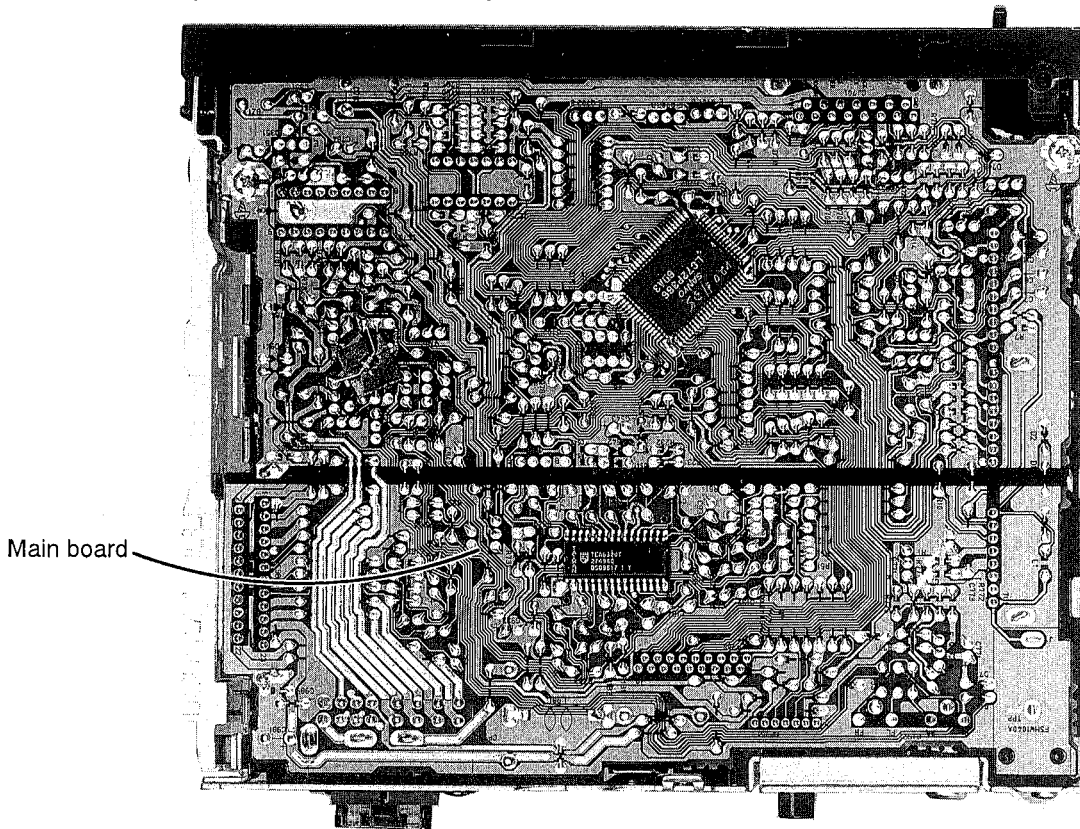
◆ Control unit



Display

◆ Main unit(bottom side view)

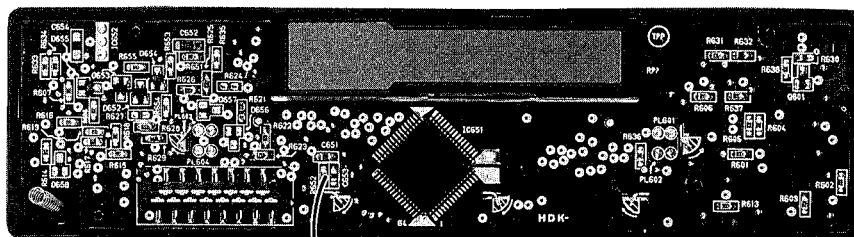
Fig. 1 - 1



Main board

Fig. 1 - 2

◆ Control unit (inside view)



Control switch board

Fig. 1 - 3

◆ Main board unit (top side view)

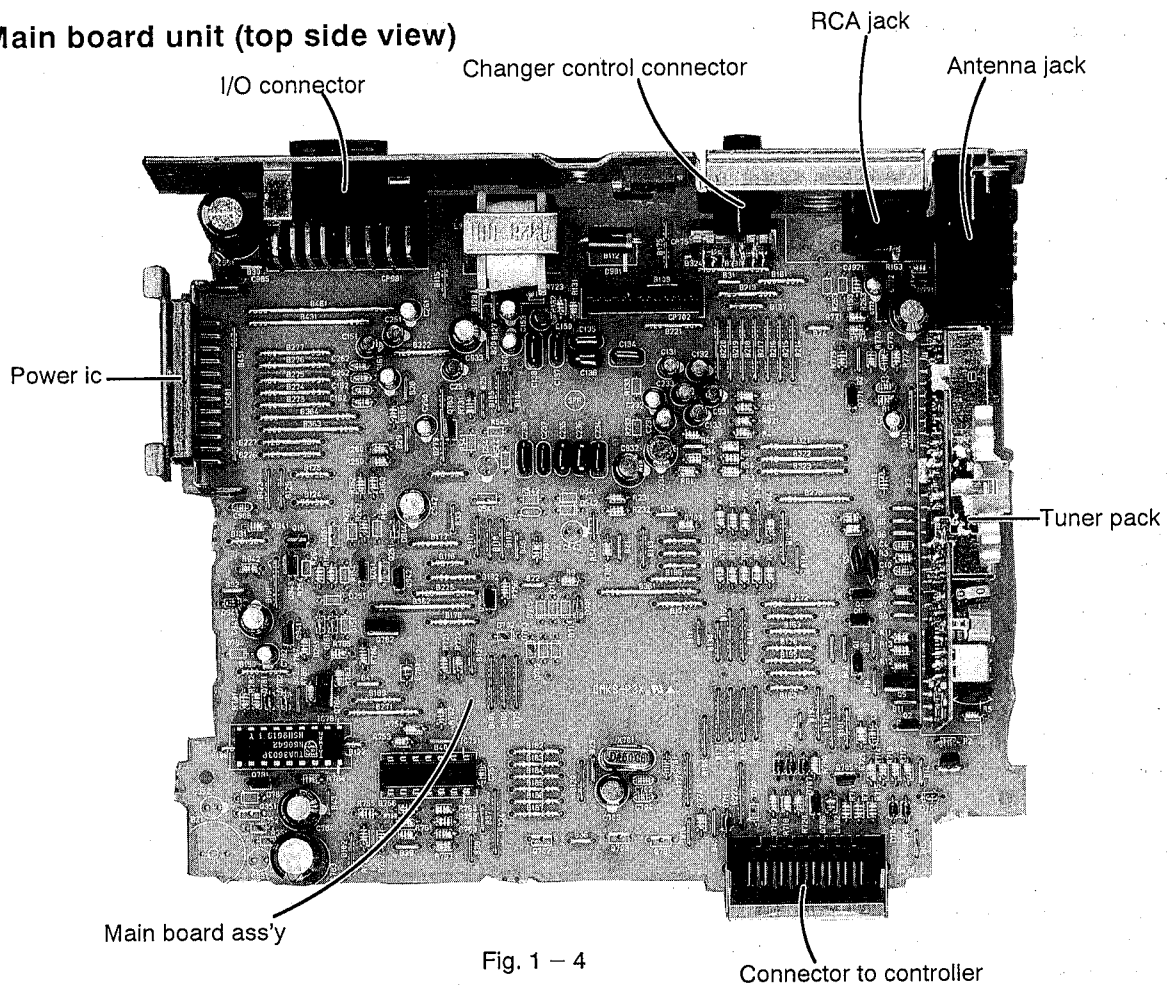


Fig. 1 - 4

◆ Cassette mechanism unit (top view)

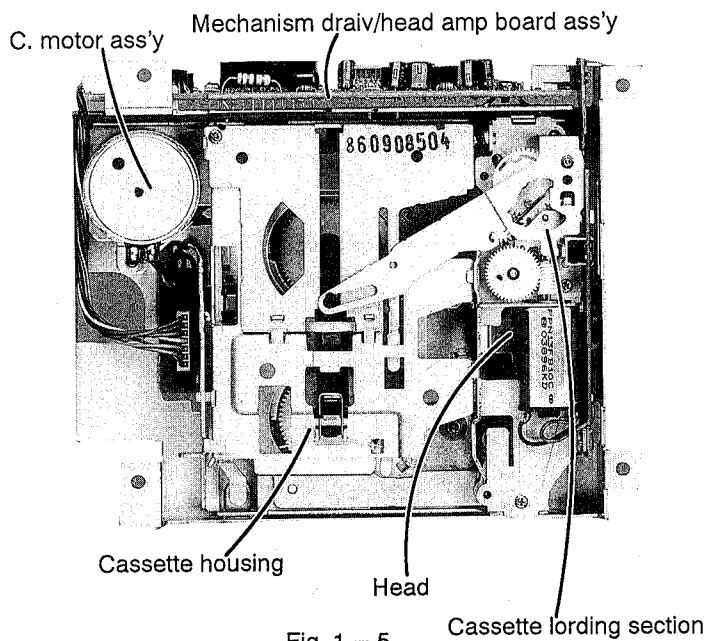


Fig. 1 - 5

◆ Cassette mechanism unit (bottom view)

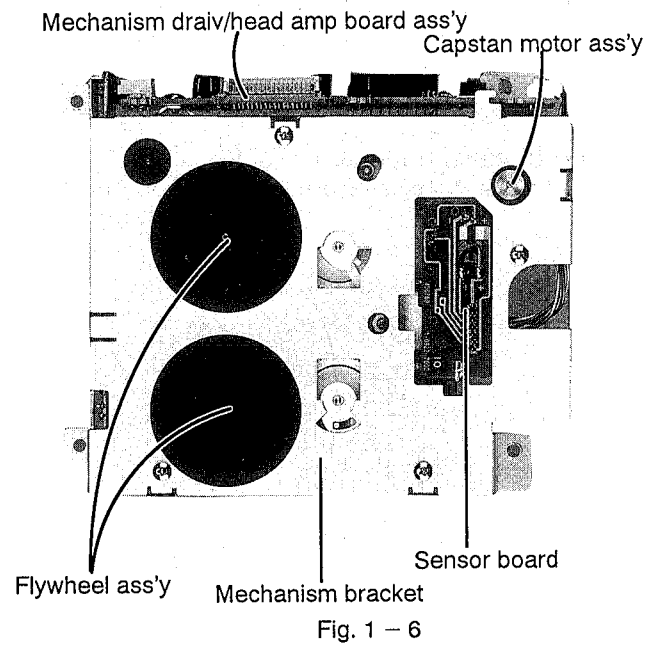


Fig. 1 - 6

2 Removal of main parts

■ Enclosure section

◆ Detaching the front panel unit (See Fig. 2-1)

Slide the Release slide knob in the direction of arrow to detach the front panel unit.

◆ Removing the front chassis (See Fig. 2-2)

Disengage the four tabs in the right and left sides of unit and pull the front chassis forward to remove it.

◆ Removing the bottom cover (See Fig. 2-3)

Turn the unit upside down, then insert and turn the screwdriver to remove the bottom cover.

◆ Removing the main P.C.B. assembly (with rear panel) (See Fig. 2-4~2-5)

1. Remove two screws ④ retaining the rear panel to the chassis.
2. Remove one screw ② retaining the IC to the heat sink.
3. Remove two screws ③ retaining the amp. P.C.B. assembly.
4. Lift up the main P.C.B. assembly to remove it. At this time, remove the connector CP702 connecting the main P.C.B. assembly and mechanism assembly.
5. Remove two screws ① to remove the heat sink.

◆ Removing the rear panel (See Fig. 2-4)

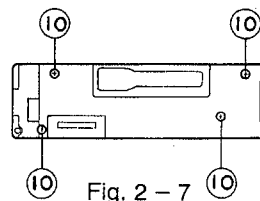
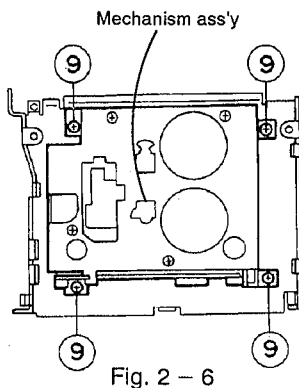
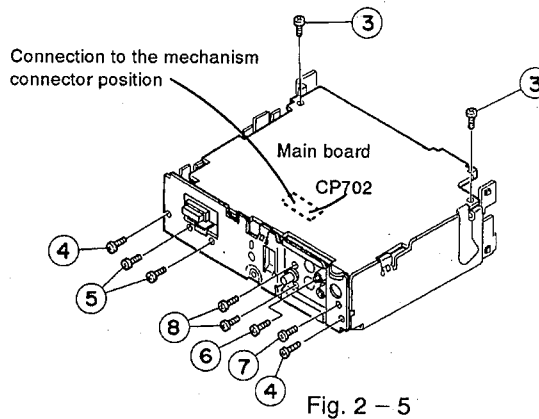
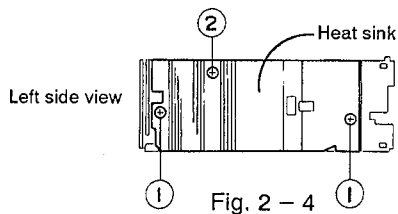
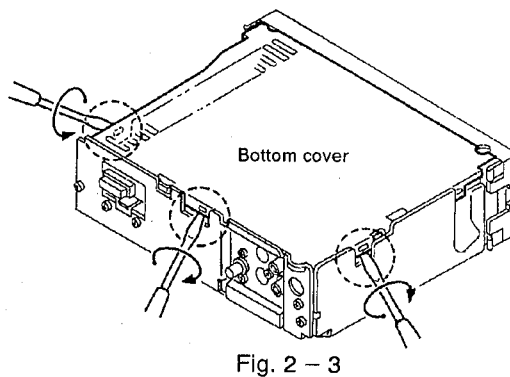
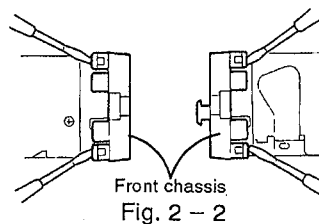
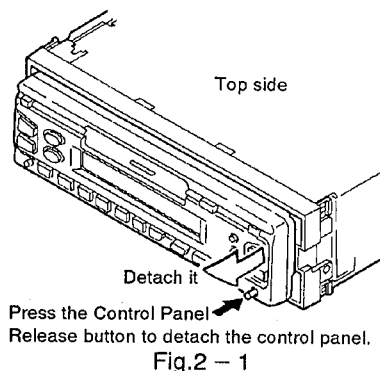
Remove six screws retaining the jacks or the like.
Remove two screws ⑤ to remove the 16-pin jack.
Remove one screw ⑥ to remove the line-out jack.
Remove one screw ⑦ to remove the antenna jack.
Remove two screws ⑧ to remove the changer controller jack.

◆ Mechanism assembly (See Fig. 2-5)

Remove four mechanism mounting screws ⑨ retaining the top cover.

◆ Front panel unit. (See Fig. 2-5)

Remove four screws ⑩ retaining the rear cover.



■ Mechanism section

◆ Removing the head relay PCB

1. Desolder the lead wires of the loading motor at the 2 positions shown (red, black). (Fig. 2-8)
2. Desolder the lead wires of the head at the 3 positions shown (red, yellow, black). (Fig. 2-8)
3. Remove the three screws ① securing the head relay PCB. (Fig. 2-8)
4. Shift the interlocking section ② securing the head relay PCB in the direction shown by the arrow A to remove the PCB. (Fig. 2-8)

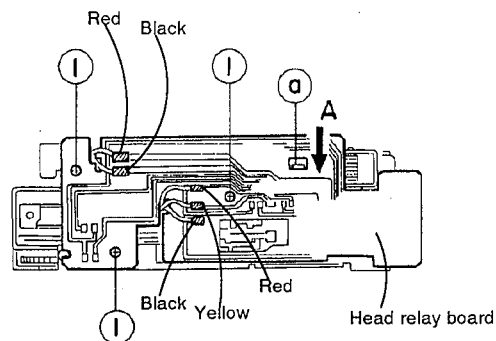


Fig. 2 - 8

◆ Removing the load arm assembly

1. Using tweezers, detach the Mylar washer ③ securing the load arm assembly and pull out the load arm assembly. (Fig. 2-9)
- Note: When reassembling, be sure to use a new Mylar washer.
2. Shift the load arm assembly counterclockwise. (Fig. 2-9)
 3. Remove the load arm assembly from the catch (K). (Fig. 2-9)

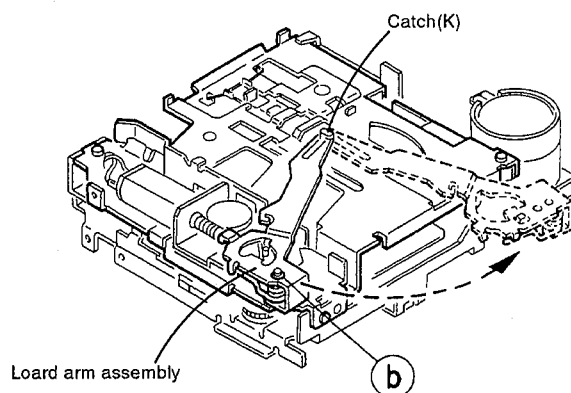


Fig. 2 - 9

◆ Removing the cassette holder and holder arm assembly

1. Remove the head relay PCB.
2. Remove the load arm assembly.
3. Apply DC 6 V to the lead wire of the loading motor assembly and turn the load gear assembly to the position shown in Fig. 2-10.
4. Remove the screw ② securing the cassette holder and holder arm assembly. (Fig. 2-10)
5. Shift the cassette holder and the holder arm assembly in the direction shown by the arrow B and remove them from the interlocking section ③ of the sub chassis assembly. (Fig. 2-10)

◆ Removing the sub chassis assembly

1. Remove the head relay PCB.
2. Remove the load arm assembly.
3. Remove the cassette holder and holder arm assembly.
4. Remove the two screws ③ and ④ securing the sub chassis assembly. (Fig. 2-10)

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

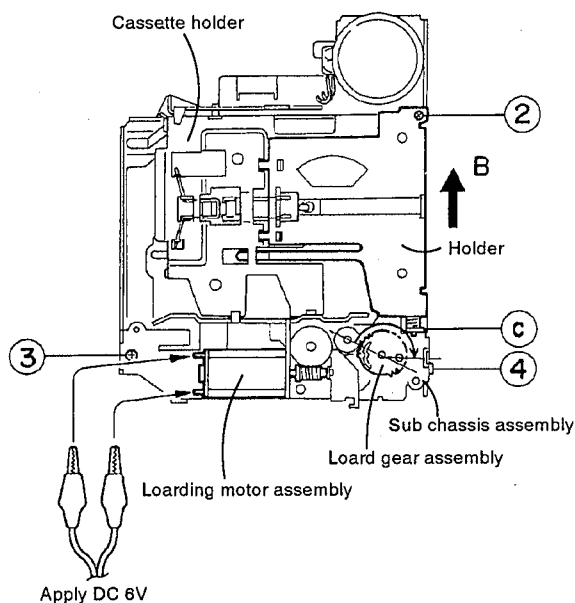


Fig. 2 - 10

◆ Removing the play head (Fig. 2-11)

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

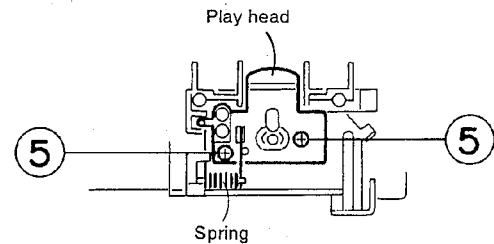


Fig. 2 - 11

◆ Removing the pinch roller assembly (Figs. 2-12 and 13)

1. Remove the head amp PCB.
2. Remove the load arm assembly.
3. Remove the cassette holder and holder arm assembly.
4. Remove the sub chassis assembly.
5. Detach the Mylar washers ④ 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.

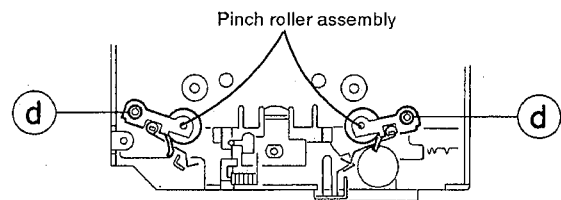


Fig. 2 - 12

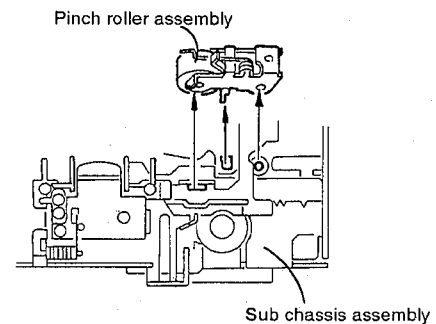


Fig. 2 - 13

◆ Removing the reel disk assembly (Fig. 2-14)

1. Remove the head amp PCB.
2. Remove the load arm assembly.
3. Remove the cassette holder and holder arm assembly.
4. Remove the sub chassis assembly.
5. Detach the Mylar washer ⑥ from the tip by first pressing down the reel feather to expose it.

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

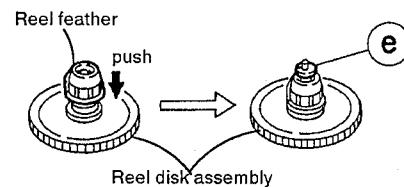


Fig. 2 - 14

◆ Removing the head plate (Figs. 2-15 and 16)

1. Remove the head amp PCB.
2. Remove the load arm assembly.
3. Remove the cassette holder and holder arm assembly.
4. Remove the sub chassis assembly.
5. Remove the right and left pinch roller assembly.
6. From the rear of the head plate, detach the Mylar washer (f) and the washer pressing the forward/reverse plate down. (Fig. 2-15)
7. Remove the screw (6) fixing the metal detection lever and removal spring as shown in Fig. 2-15.
8. Remove the head plate.
9. Pull out the mode gear. (Fig. 2-16)

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

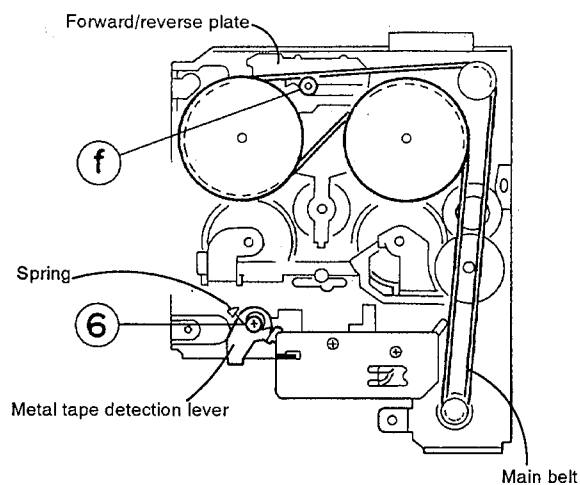


Fig. 2 – 15

◆ Removing the flywheel assembly (Fig. 2-16)

1. Remove the head relay PCB.
2. Remove the load arm assembly.
3. Remove the cassette holder and the holder arm assembly.
4. Remove the sub chassis assembly.
5. Remove the head plate.
6. Disengage the main belt from the flywheel assembly. (Fig. 2-15)
7. Remove E washers (g) at the two positions which secure the capstan shaft away from the surface. (Fig. 2-16)
8. Pull out the flywheel assembly from the rear.

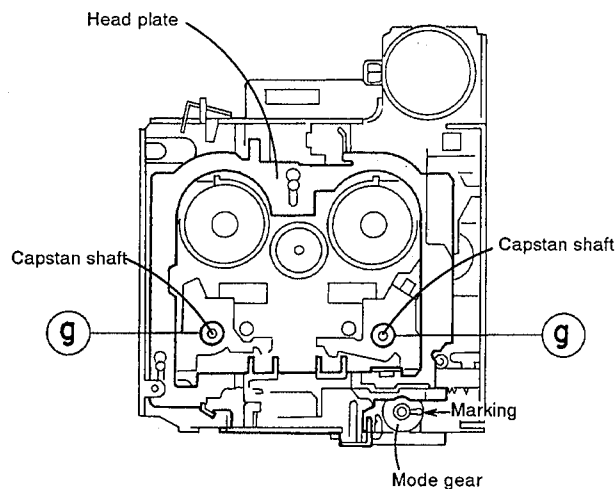


Fig. 2 – 16

◆ Removing the reel disk PCB

1. Remove the head relay PCB.
2. Remove the load arm assembly.
3. Remove the cassette holder and the holder arm assembly.
4. Remove the sub chassis assembly.
5. Straighten the curved tab (h) securing the reel disk PCB. (Fig. 2-17)
6. Remove the two screws (7) fixing the reel disc PCB. (Fig. 2-17)
7. Remove the reel disk PCB.

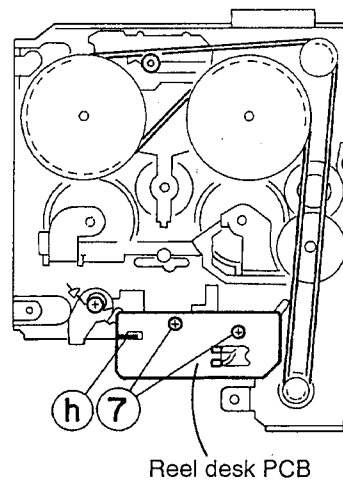


Fig. 2 – 17

◆ Removing the loading motor assembly

1. Remove the head relay assembly.
2. Remove the load arm assembly.
3. Remove the Mylar washer ① fixing the worm gear.
(Fig.2-18)

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

4. Remove the screw ⑧ fixing the loading motor assembly. (Fig. 2-18)
5. Remove the two screws ⑨ fixing the loading motor assembly. (Fig. 2-18)

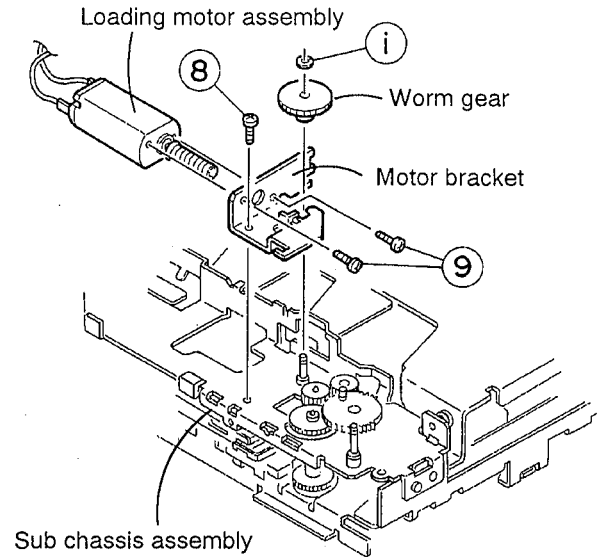


Fig. 2 - 18

● (Procedures for reassembling)

1. Insert the mode gear into the sub chassis assembly.
2. Install the sub chassis assembly and secure it with the two screws ③ and ④ as shown in (Fig. 2-19).

Note: The set arm assembly and the mode gear should be positioned as shown in Fig. 2-19.

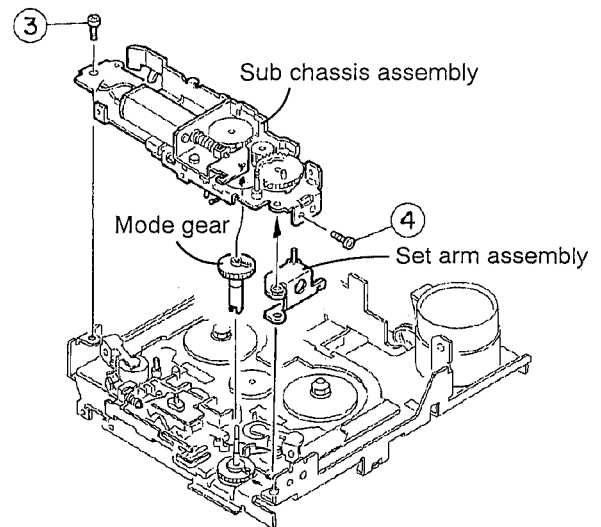


Fig. 2 - 19

3. Attach the cassette holder as shown in Fig. 2-20. In this case, first pass the tab of the section ① through the mechanism ②, then attach the cassette holder in the direction shown by the arrow.

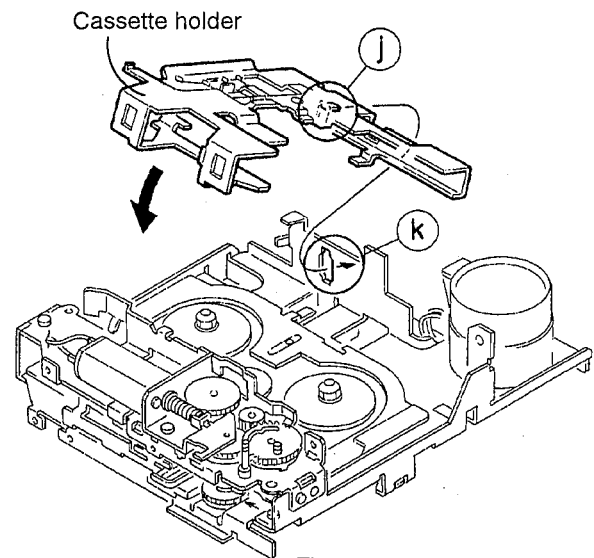
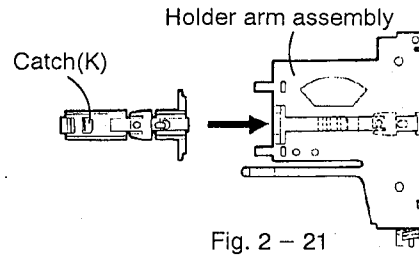
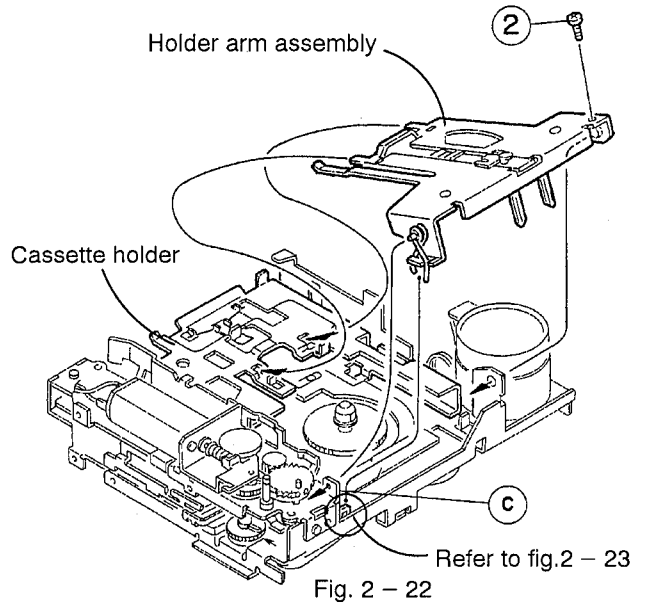


Fig. 2 - 20

4. Set the catch (K) to the holder arm assembly as shown in Fig. 2-21.



5. While attaching the holder arm assembly to the cassette holder, insert the shaft of the holder arm assembly into the interlocking section © of the sub chassis assembly as shown in Fig. 2-22.



6. Install the spring attached to the holder arm assembly shaft over the set arm assembly as shown in Fig. 2-23.

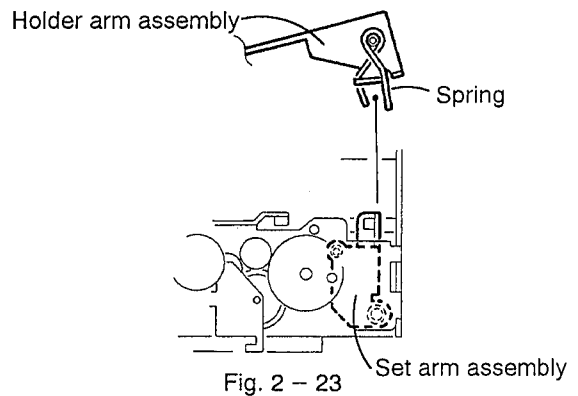
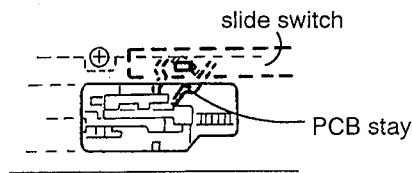
7. After the holder arm assembly is installed, secure it with the screw ②. (Fig. 2-22)

8. After the installation, apply DC 6 V to the lead wires of the loading motor assembly to locate the load gear assembly as shown in Fig. 2-24.

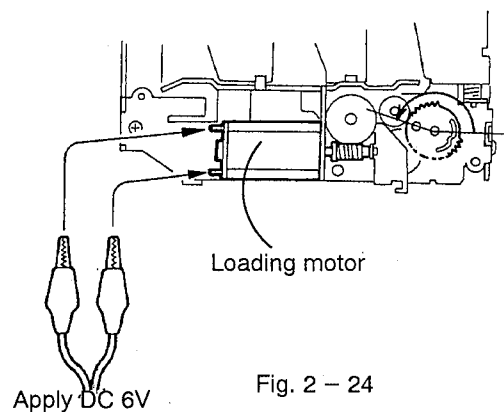
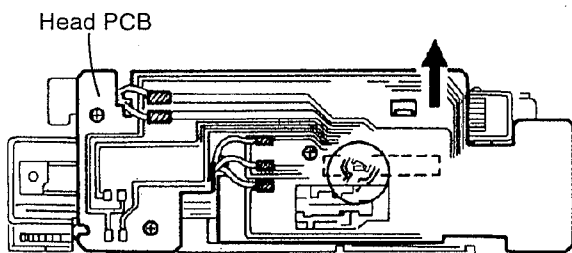
9. Install the load arm assembly.

10. Install the head relay PCB.

Note: Install it so that the slide switch lever of the head relay PCB is set in the PCB stay hook of the sub chassis assembly. (Fig. 2-25a)



11. Solder the loading motor and head lead wires to the head relay PCB, respectively. (Fig. 2-25)



3 Main adjustment

■ Equipment and measuring instruments used for adjustment

- Electronic voltmeter
- Audio frequency oscillator
(range:50~20kHz and output 0 dB with impedance of 600 Ω)
- Attenuator(impedance;600 Ω)
- Frequency counter
- AM Standard signal generator
- FM Standard signal generator
- Wow flutter mater
- Torqu testing cassette gauge
CTG – N (mechanical adjusting)
TW – 2111A (FWD play)
TW – 2121A (REV play)
- Standard tape
VT712 or VTT712(tape speed,wow&flutter adj.)
VT724 or VTT724(reference level)
VT738 or VTT736(playback frequency response)
VT721 or VTT721(output level)
VT703 or VTT703 (azimuth) (10kHz part only)

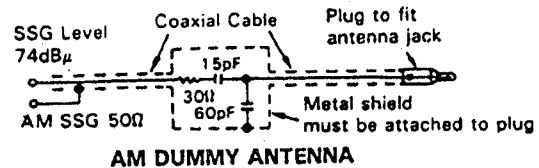
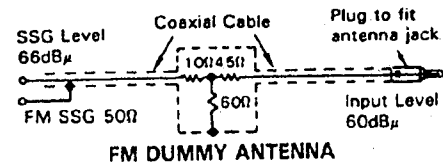
■ Condition for measurement

- Power Supply DC14.4V
(Reduced Voltage:10.5V)
- Load 4 Ω
(4- speakers connection)
- BASS/TRE, FADER Indication 0
- Main volume Position with an output level of 2V during VTT721 playback

■ Tuner section

- **[FM]**;400Hz, 22.5kHz deviation(MONO)
- **[FM]**STEREO ;1kHz, 67.5kHz deviation, pilotsignal 7.5kHz, 66dB μ V
- **[AM]**;400Hz, 30% modulation ,74dB μ V
- Output impedance ;50 Ω

■ Dummy antenna



● Preset memory Initialization

Band	Preset Memory					
	M1	M2	M3	M4	M5	M6
FM(MHz)	87.5	89.9	97.9	105.9	107.9	87.5
AM(kHz)	530	600	1000	1500	1710	530

● Manual Tuning Up/Down Frequency

- [FM]**;200kHz Step
- [AM]**;10kHz Step

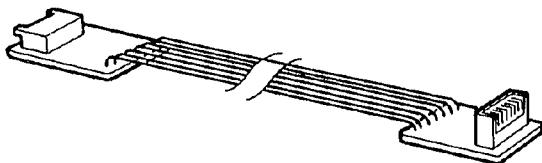
■ Information for using a Car Stereo service jig (for adjustment and checking)

- ◆ For 1995 and 1996, we're advancing efforts to make our extension cords common for all Car Stereo products.

Please use this type of extension cord as follows.

- ◆ As a U - shape type top cover is employed, this type of extension cord is needed to check operation of the mechanism assembly after disassembly.

- ◆ Extension cords



EXT- KSRT002- 18P (18 pin extension cord)

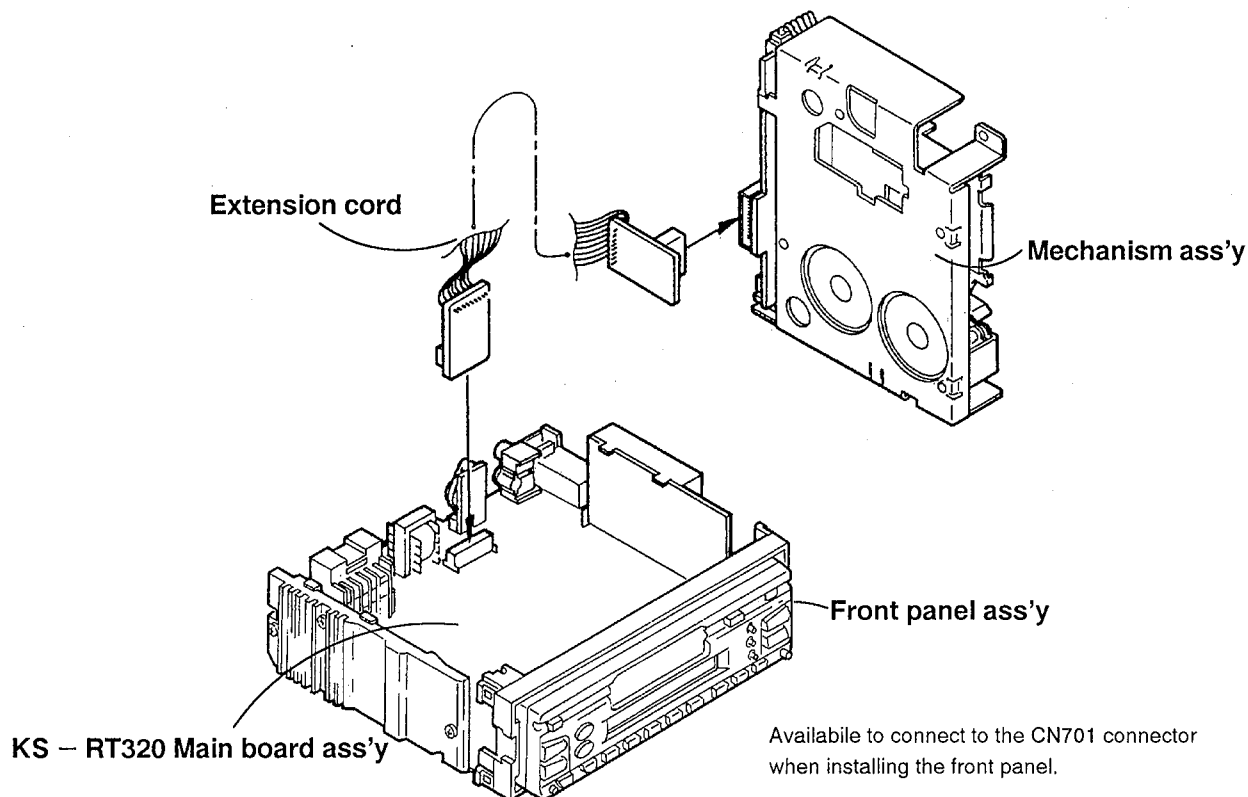
For connection between mechanism assembly and main PCB assembly.

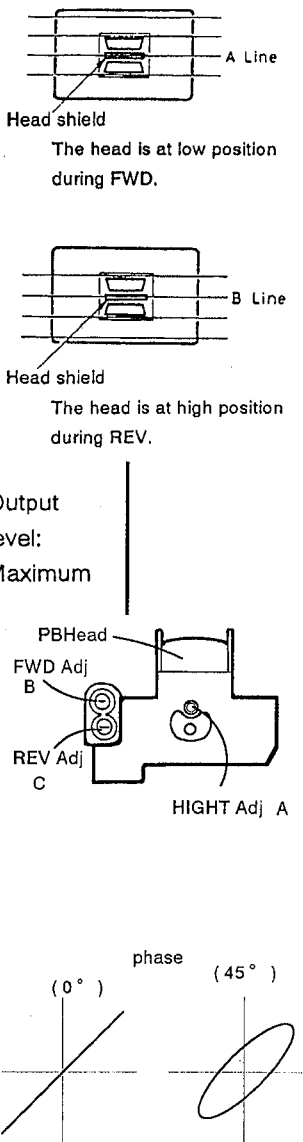
Check for mechanism-driving section such as motor, etc.

- ◆ Disassembly method (Refer to method to remove main parts)

1. Remove the bottom cover.
2. Remove the front panel assembly.
3. Remove the top cover. (Remove the screws at each side of heat sink and rear panel.)
4. Install the front panel (whose assembly was removed in step 2) to the main unit.
5. Confirm that current is being carried by connecting an extension cord jig.

- ◆ Connection diagram



Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
<p>1. Head azimuth adjustment</p>	<p>Test tape: SCC - 1659 VT703(10kHz)</p>	<p>◆ Head height adjustment ※ 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.</p> <ol style="list-style-type: none"> 1. Load the SCC - 1659 mirror tape. 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 with azimuth adjustment screw B so that line B of the mirror tape runs in the center between Lch and Rch in the forward play mode. <p>◆ Head azimuth adjustment</p> <ol style="list-style-type: none"> 1. Load VTT724 (VT724) (1 kHz) and play it back in the reverse play mode. Set the Rch output level to max. 2. Load VTT703 (VT703) (10 kHz) and play it back in the forward play mode. Adjust the Rch and Lch output levels to max. 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 max. with azimuth adjustment screw C. (The phase difference should be 45° or more.) 4. When switching between forward and reverse modes, the difference between channels should be within 3 dB. (Between FWD L and R, REV L and R) 5. When VTT721 (VT721) (315 Hz) is played back, the level difference between channels should be within 1.5 dB. 	<p>S.Values Maximum</p>	<p>Adjust</p>  <p>The diagrams illustrate the head position during forward (FWD) and reverse (REV) play. The top diagram shows the head at a low position during FWD, with line A of the mirror tape centered between Lch and Rch. The middle diagram shows the head at a high position during REV, with line B of the mirror tape centered between Lch and Rch. The bottom diagram shows the output level adjustment screws: PBHead, FWD Adj B, REV Adj C, and HIGHT Adj A. The phase diagram shows a phase difference of 45° between the channels.</p>
<p>2. Tape speed and wow flutter confirmation</p>	<p>Test tape:VTT712 (3kHz)</p>	<ol style="list-style-type: none"> 1. Check to see if the reading of the F. counter/wow flutter meter is within 3015~3045(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. 	<p>Tape speed: 3015 ~3045Hz Wow flutter:less than0.35%</p>	<p>Built-in volume resistor</p>
<p>3. Playback frequency response confirmation</p>	<p>Test tape:VTT724 (1kHz) VTT739 (63Hz/1kHz/10kHz)</p>	<ol style="list-style-type: none"> 1. Play test tape VTT724, and set the volume position at 2 V 2. Play test tape VTT739 and confirm 1kHz/10kHz: - 1 ± 3dB, 1kHz/63Hz: 0 ± 3dB. 3. When 10 kHz is out of specification, it will be necessary to read adjust the azimuth 	<p>Speaker out 1kHz/63Hz :0 ± 3dB 1kHz/10kHz : - 1 ± 3dB</p>	

4 Wiring connections

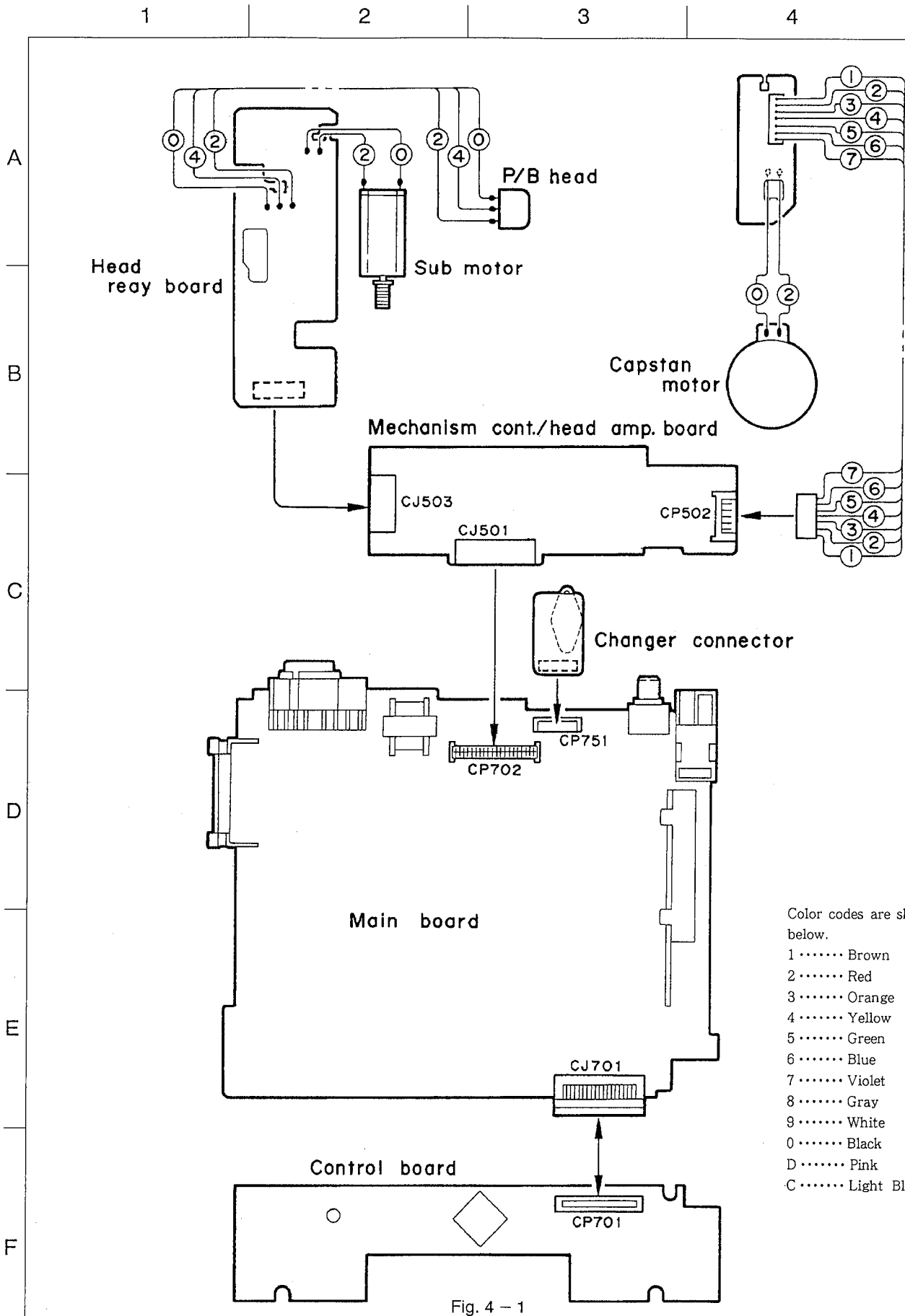


Fig. 4 - 1

5 Block diagram ■ Integrated circuits

◆ IC931(TEA6320T) E.volume

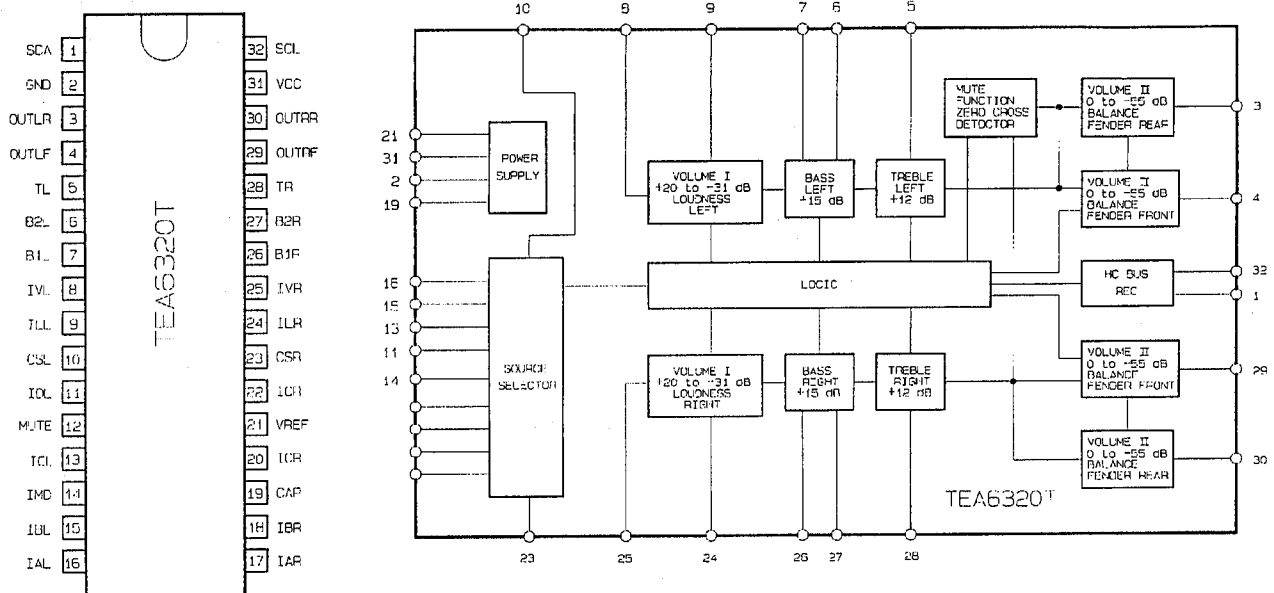


Fig. 5 - 1

◆ IC651(LC75823E) LCD driver

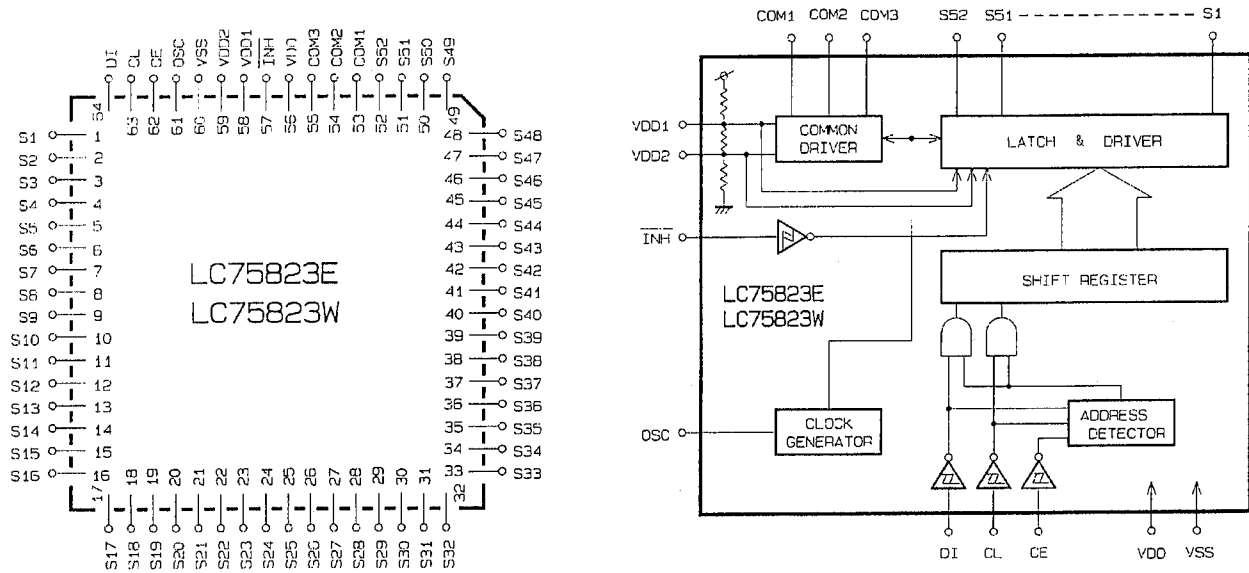


Fig. 5 - 2

◆ IC781(TDA3603P)

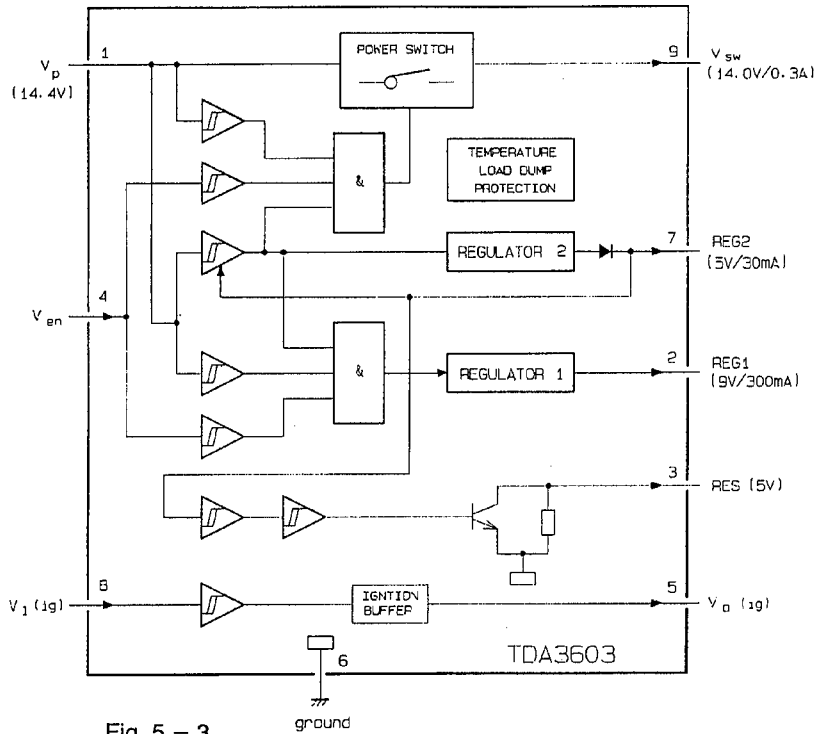
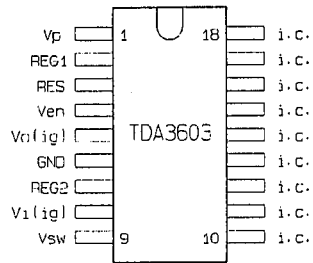


Fig. 5 - 3

◆ IC751(HD74HC126P)

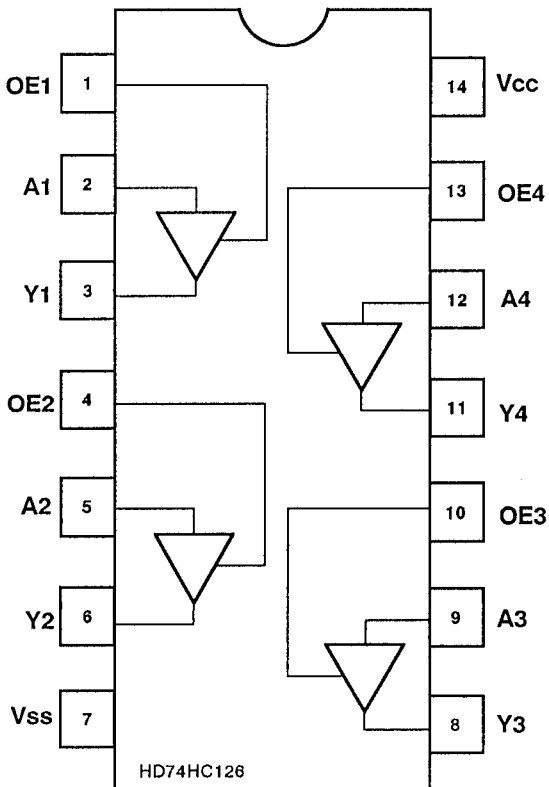


Fig. 5 - 4

◆ IC981(TDA8567Q) Power amp.

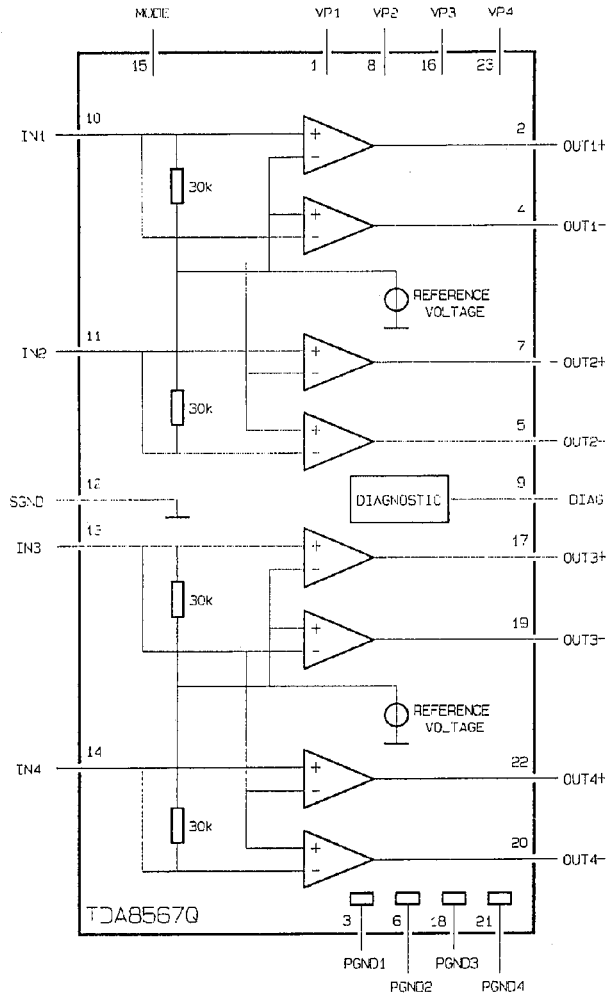


Fig. 5 - 5

■ Circuit diagram

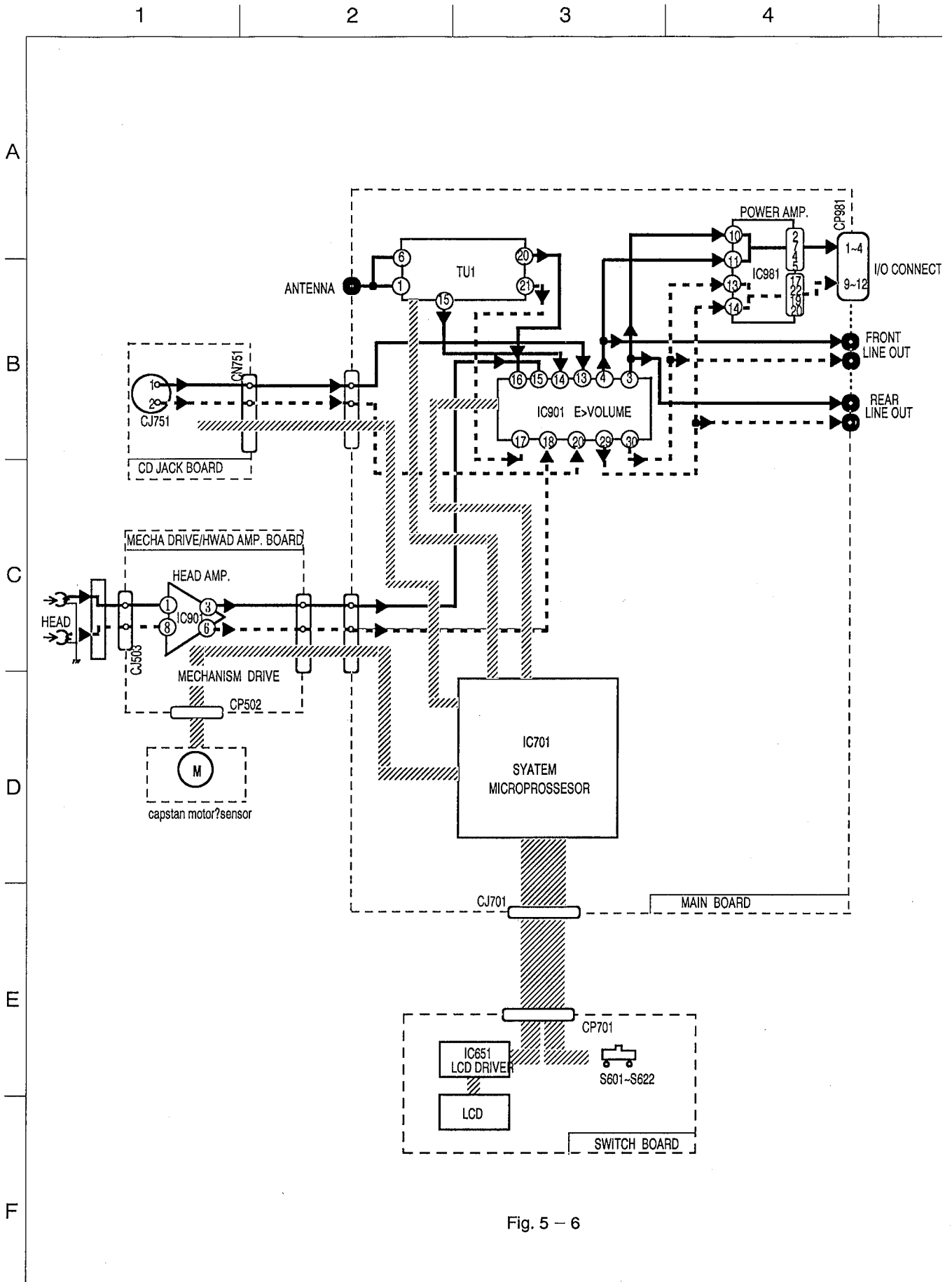
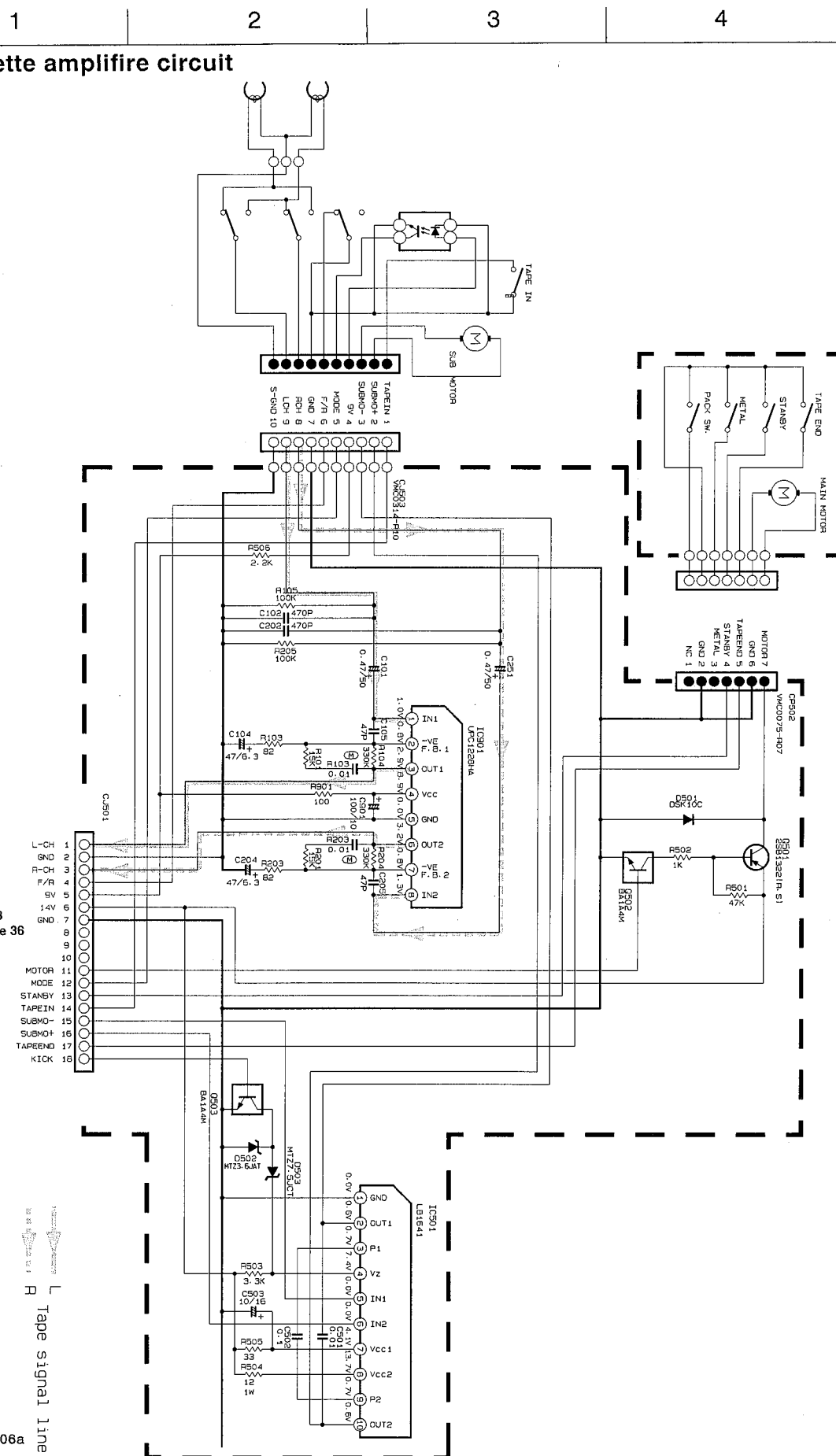


Fig. 5 - 6

6 Standard schematic diagram

■ Cassette amplifire circuit

A
B
C
D
E
F



To B-3
on page 36

L Tape signal line

Note
fsdh3019006a

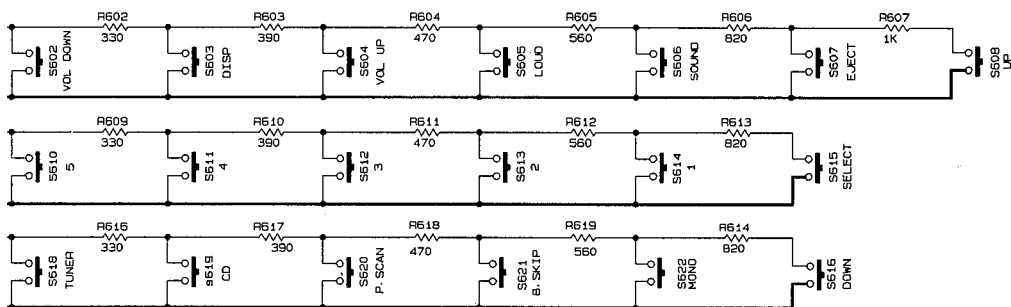
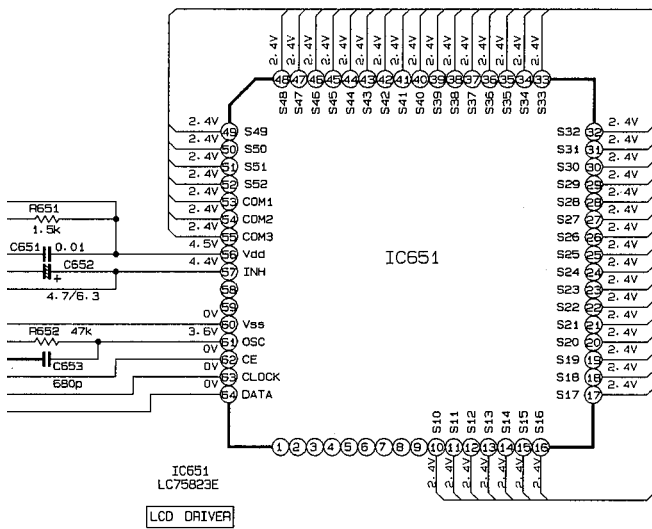
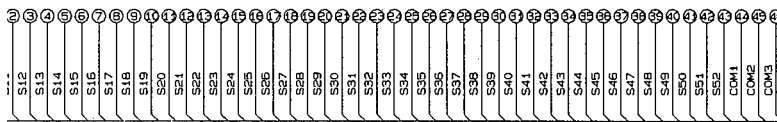
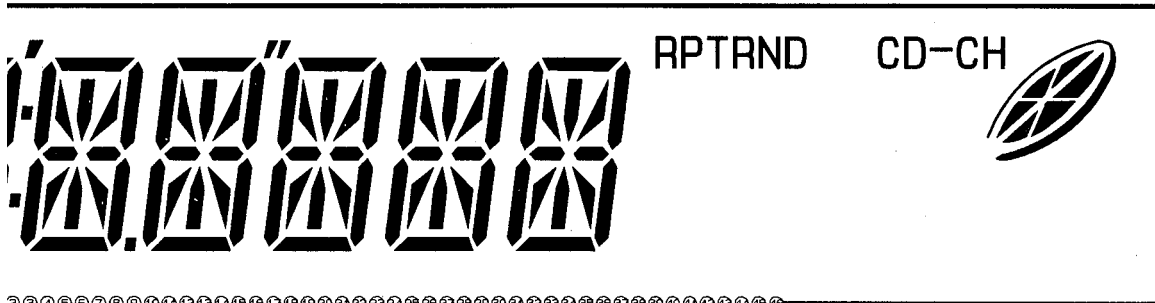
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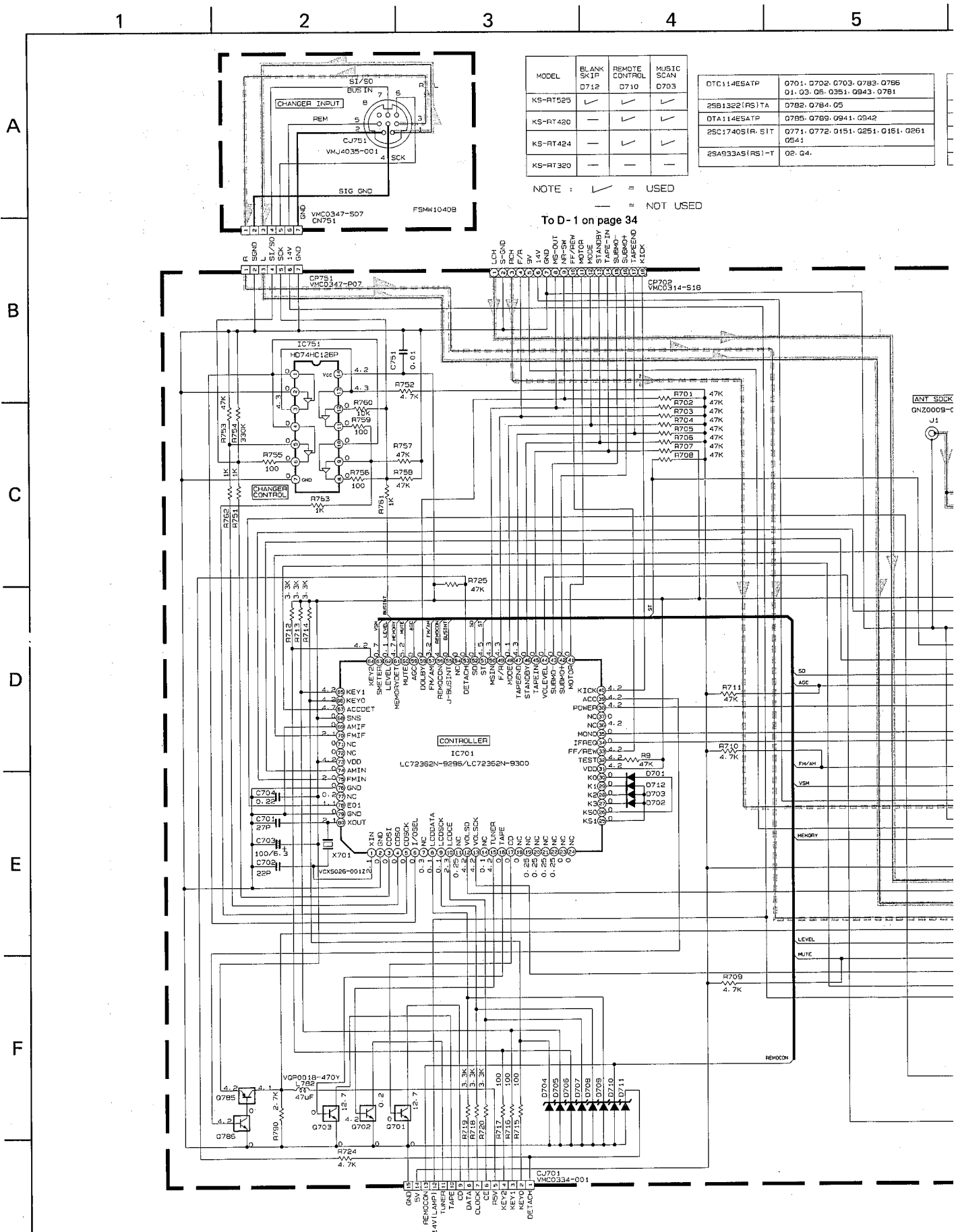
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9

10



Radio/system control circuit



MODEL	BLANK SKIP D712	REMOTE CONTROL D710	MUSIC SCAN D703
KS-RT525	✓	✓	✓
KS-RT420	—	✓	✓
KS-RT424	—	✓	✓
KS-RT320	—	—	—

07C114ESATP	0701, 0702, 0703, 0783, 0786 01, 03, 05, 0351, 0943, 0781
25B1322 (RS) TA	0782, 0784, 05
07A114ESATP	0785, 0789, 0941, 0942
25C1740S (R, S) T	0771, 0772, 0151, 0251, 0151, 0261 0541
25A933AS (RS) - T	02, 04

NOTE : ✓ = USED
— = NOT USED

To D-1 on page 34

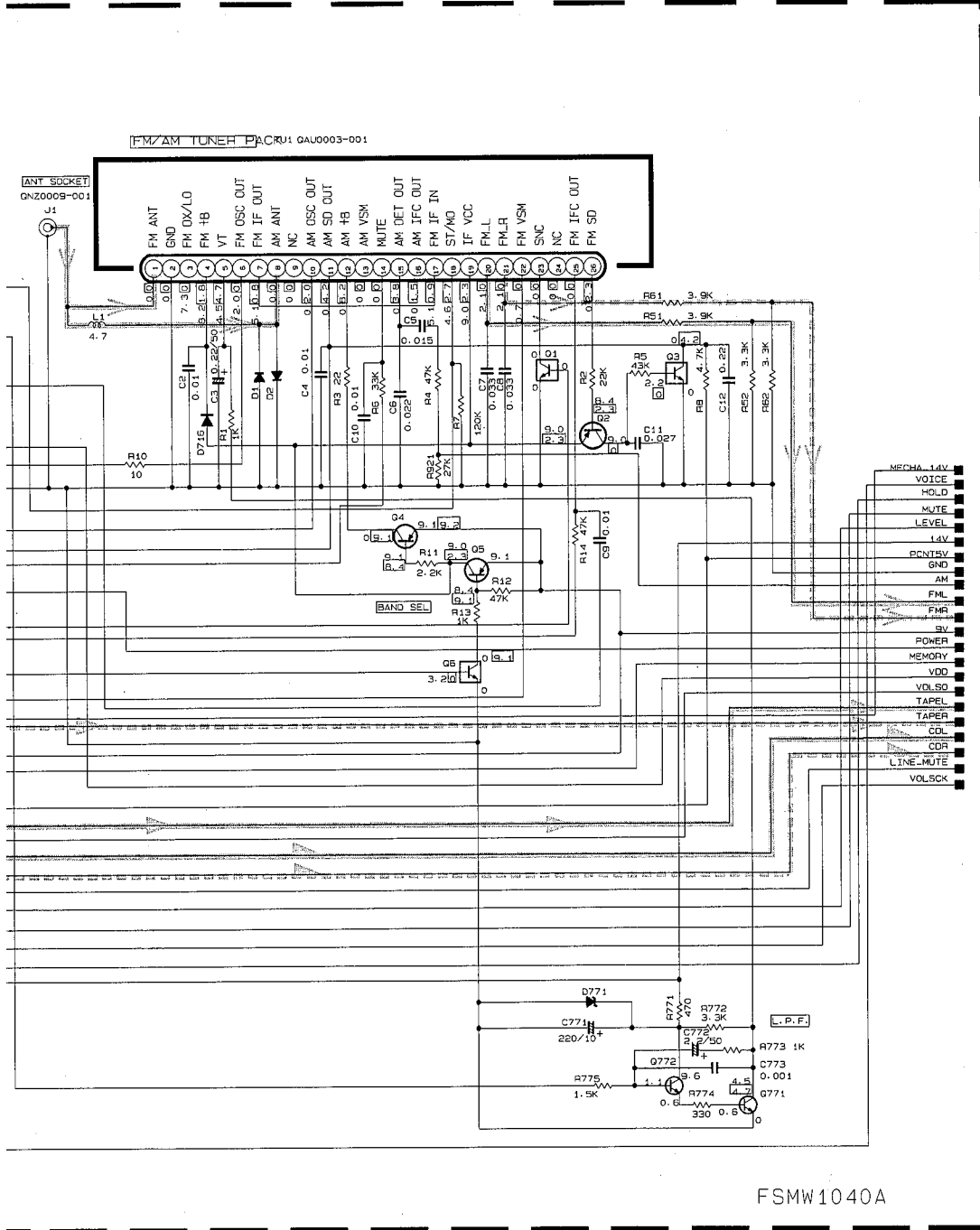
Note
FSDH3016006TW

To B-3 on page 35

	MT26-2JCT-77	D704, D705, D706, D707, D708 D709, L-10, D711
	MTZ10JAT-77	D771
	MTZ11JBT-77	D841
0261	DSK10C-ET1	D784
	RB721GT-77	D541, D542, D781
	1N5401TM	D961

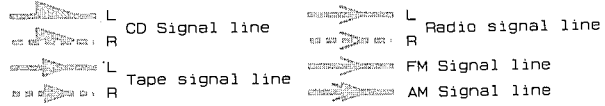
NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION --- FM MODE. (AM MODE)
- UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC 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).
ALL DIODES ARE 1SS119-041
--- MYLAR CAPACITOR

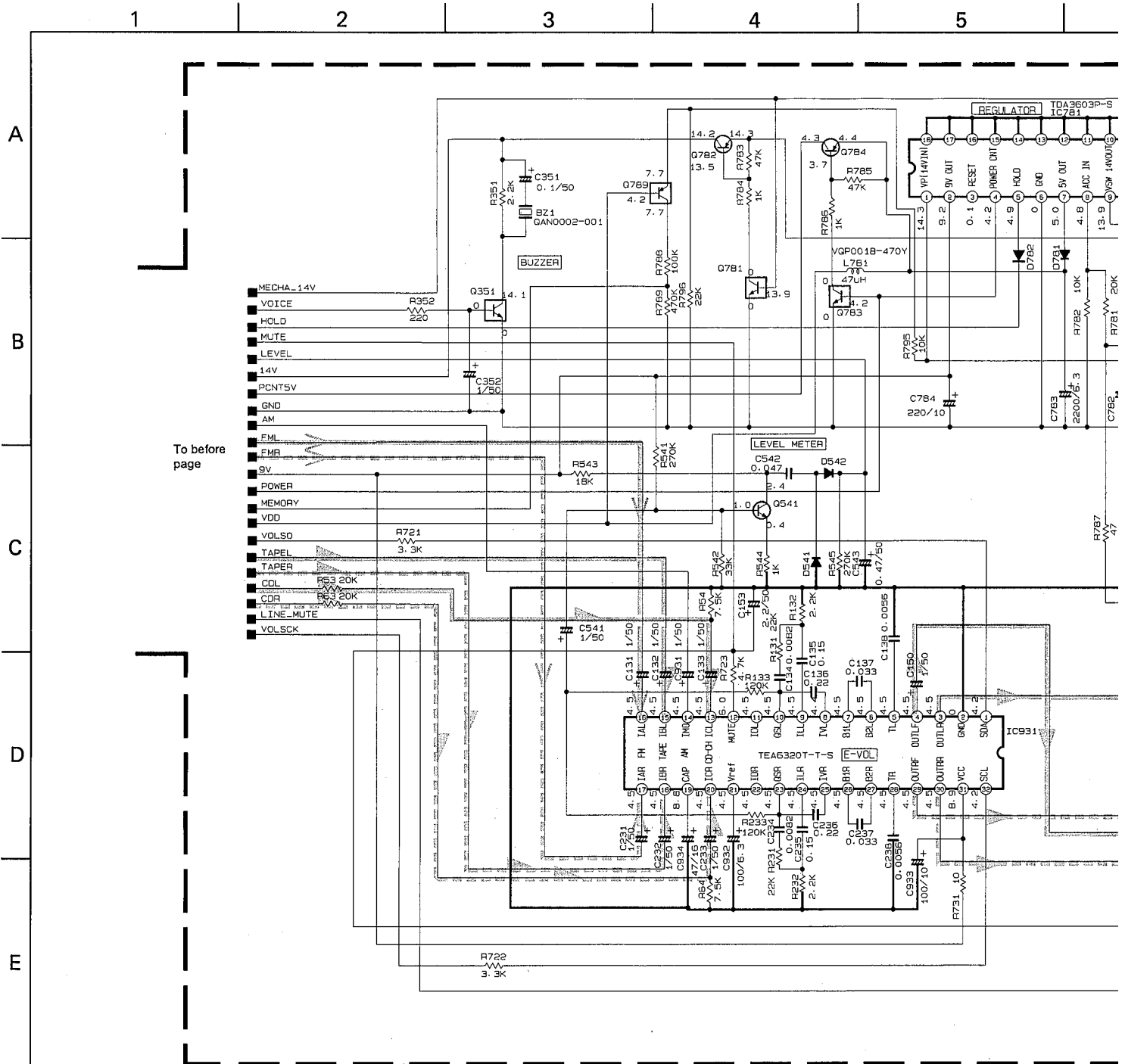


To next page

FSMW1040A



Power amplifier circuit



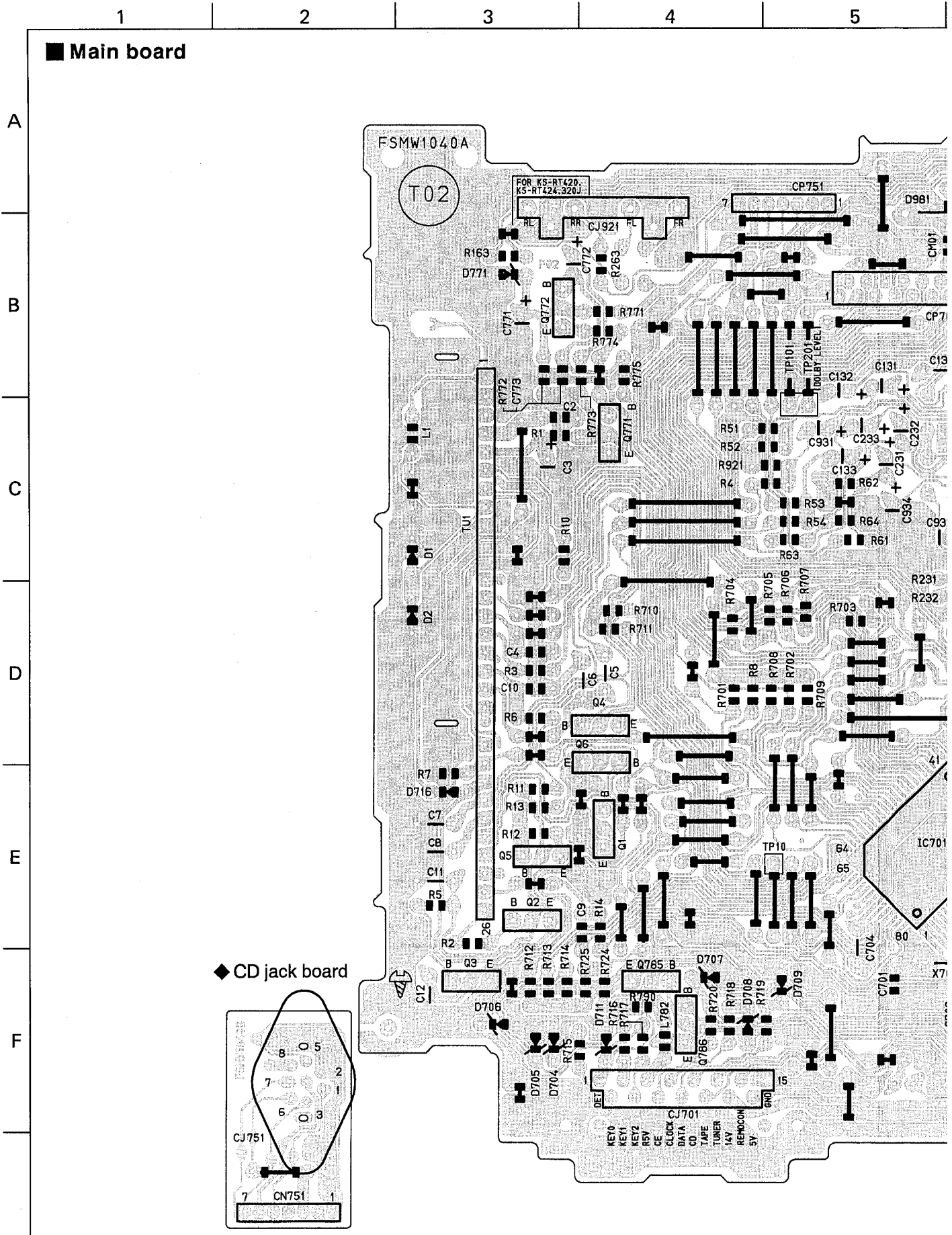
NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION - - - FM MODE.
- UNLESS OTHERWISE SPECIFIED.
 ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
 ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHM(Ω).
 ALL CAPACITANCE VALUES ARE IN μ F(μ PF).
 ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μ F) / RATED VOLTAGE(V).
 ALL DIODES ARE 1S119-041
 - - - MYLAR CAPACITOR

REMARK	FRONT LINE OUT
MODEL	R153, R152, G151, R154, D151 R253, R252, G251, R254, G251
KS-RT525	✓
KS-RT420	—
KS-RT424	—
KS-RT320	—

NOTE : ✓ = USED
 — = NOT USED

7 Location of p. c. board parts and parts list



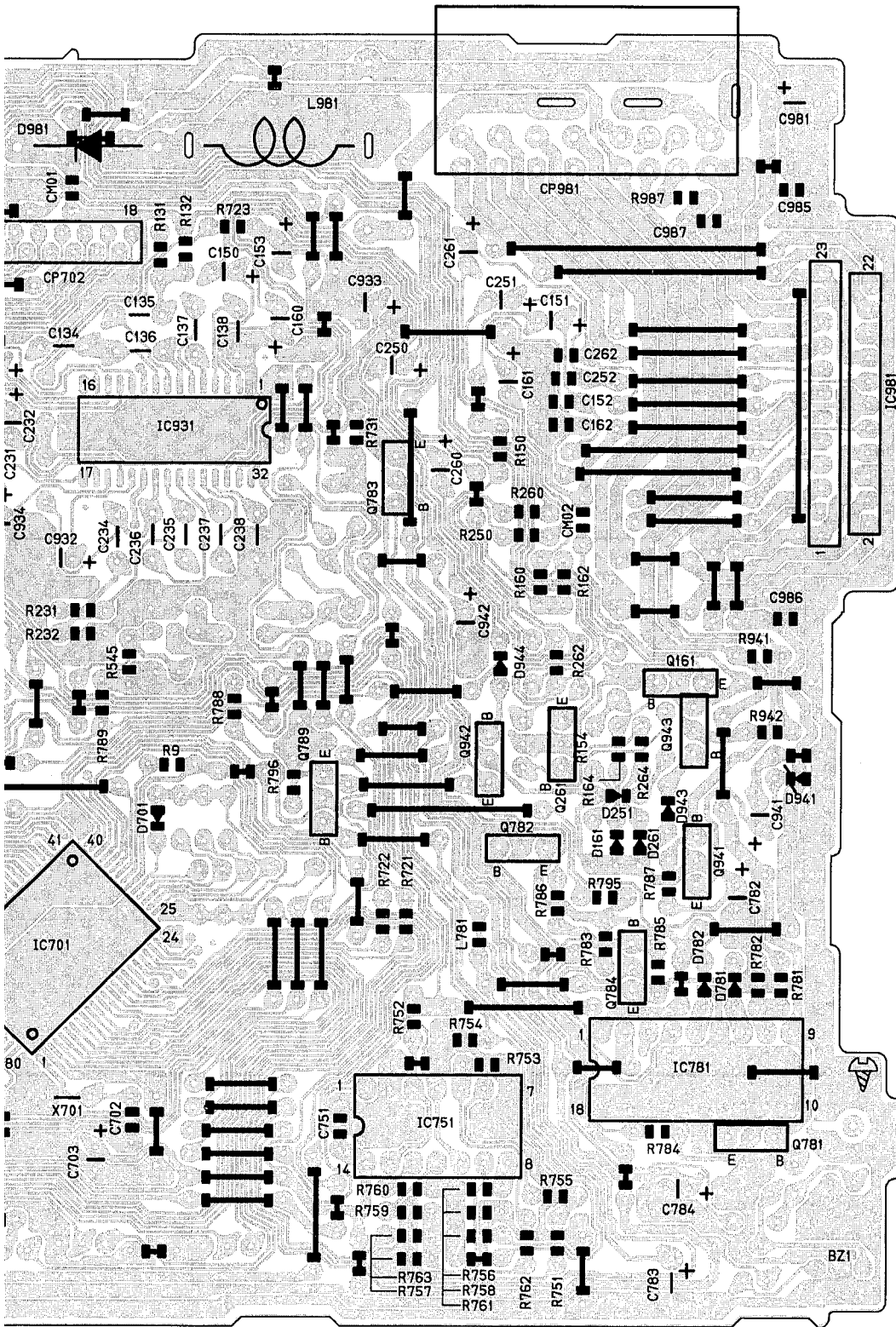
6

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● Main board parts list

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 943	QER41CM-106	E-CAPACITOR	10MF 20% 16V	
C 944	QETB1CM-228	E-CAPACITOR	2200MF 20% 16V	
C 985	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
C 986	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
CJ701	VMC0334-001	CONNECTOR	TO FRONT PANEL	
CJ751	VMJ4035-001	MINI DIN JACK		
CJ921	VMJ3022-001	PIN JACK		
CN751	VMC0136-007	CONNECTOR		
CP702	VMC0314-S18	CONNECTOR	TO MECHA	
CP751	VMC0135-007	CONNECTOR	TO CD-CH	
CP981	QNZ0002-001	16P CONNECTOR		
D 1	1SS119-041	DIODE	FRONT	
D 2	1SS119-041	DIODE	REAR	
D 151	1SS119-041	DIODE	FRONT	
D 161	1SS119-041	DIODE	REAR	
D 251	1SS119-041	DIODE	FRONT	
D 261	1SS119-041	DIODE	REAR	
D 701	1SS119-041	DIODE	FM IFC	
D 702	1SS119-041	DIODE	BEEP	
D 703	1SS119-041	DIODE	MS	
D 704	MTZ6-2JC	ZENER DIODE		
D 705	MTZ6-2JC	ZENER DIODE		
D 706	MTZ6-2JC	ZENER DIODE		
D 707	MTZ6-2JC	ZENER DIODE		
D 708	MTZ6-2JC	ZENER DIODE		
D 709	MTZ6-2JC	ZENER DIODE		
D 710	MTZ6-2JC	ZENER DIODE		
D 711	MTZ6-2JC	ZENER DIODE		
D 771	MTZ10JAT-77	ZENER DIODE		
D 781	RB721Q	DIODE		
D 785	MTZ22JC	Z-DIODE		
D 941	MTZ11JB	ZENER DIODE		
D 942	1SS119-041	DIODE		
D 943	1SS133	SI DIODE		
D 944	1SS133	SI DIODE		
D 981	1N5401TM	SI DIODE		
IC701	LC72362N-9296	IC	CD-CH	
IC751	HD74HC126P	IC	REGULATOR	
IC781	1DA3603P-S	IC		
IC931	1EA6320T	IC		
IC981	1DA8567Q	IC		
J 1	QNZ0009-001	CAR ANT JACK		
L 1	VGP0018-4R7	INDUCTOR		
L 781	VGP0018-470	INDUCTOR		
L 782	VGP0018-470	INDUCTOR		
L 981	QGR0528-001	CHOKE COIL		
Q 1	DTC114ESTP	TRANSISTOR		
Q 2	2SA933AS(RS)-T	TR.I.M		
Q 3	DTC114ESTP	TRANSISTOR		
Q 4	2SA933AS(RS)-T	TR.I.M		
Q 5	2SB132(RS)	TRANSISTOR		
Q 6	DTC114ESTP	TRANSISTOR	FRONT	
Q 151	2SC1740S(R,S)	TRANSISTOR	REAR	
Q 161	2SC1740S(R,S)	TRANSISTOR	FRONT	
Q 251	2SC1740S(R,S)	TRANSISTOR		

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 2	QCVB1CM-103Y	E-CAPACITOR	.010MF 20% 16V	
C 3	QERF1HM-224ZM	E-CAPACITOR	.22MF 20% 50V	
C 4	QCVB1CM-103Y	E-CAPACITOR	.010MF 20% 16V	
C 5	QCC11EK-153ZV	E-CAPACITOR	.015MF 10% 25V	
C 6	QCC11EM-223V	E-CAPACITOR	.022MF 10% 25V	
C 7	QCC11EK-333Z	E-CAPACITOR	.033MF 10% 25V	
C 8	QCC11EK-333Z	E-CAPACITOR	.033MF 10% 25V	
C 9	QCVB1CM-103Y	E-CAPACITOR	.010MF 20% 16V	
C 10	QCVB1CM-103Y	E-CAPACITOR	.010MF 20% 16V	
C 11	QCC11EK-273Z	E-CAPACITOR	.027MF 10% 25V	
C 131	QER41HM-105VM	E-CAPACITOR	FM	
C 132	QER41HM-105VM	E-CAPACITOR	TAPE	
C 133	QER41HM-105VM	E-CAPACITOR	CD	
C 134	QFLA1HJ-822ZM	M-CAPACITOR	8200PF 5% 50V	
C 135	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
C 136	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C 137	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
C 138	QFLA1HJ-582ZM	M-CAPACITOR	5600PF 5% 50V	
C 150	QER41HM-105VM	E-CAPACITOR	FRONT	
C 151	QER41HM-105VM	E-CAPACITOR	FRONT	
C 152	QCCB1HK-471Y	E-CAPACITOR	FRONT	
C 160	QER41HM-105VM	E-CAPACITOR	REAR	
C 161	QER41HM-105VM	E-CAPACITOR	REAR	
C 162	QCCB1HK-471Y	E-CAPACITOR	REAR	
C 231	QER41HM-105VM	E-CAPACITOR	FM	
C 232	QER41HM-105VM	E-CAPACITOR	TAPE	
C 233	QER41HM-105VM	E-CAPACITOR	CD	
C 234	QFLA1HJ-822ZM	M-CAPACITOR	8200PF 5% 50V	
C 235	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
C 236	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
C 237	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
C 238	QFLA1HJ-562ZM	M-CAPACITOR	5600PF 5% 50V	
C 250	QER41HM-105VM	E-CAPACITOR	FRONT	
C 251	QER41HM-105VM	E-CAPACITOR	FRONT	
C 252	QCCB1HK-471Y	E-CAPACITOR	FRONT	
C 260	QER41HM-105VM	E-CAPACITOR	REAR	
C 261	QER41HM-105VM	E-CAPACITOR	REAR	
C 262	QCCB1HK-471Y	E-CAPACITOR	REAR	
C 701	QCT05CH-220	C-CAPACITOR	22PF 5% 50V	
C 702	QCT05CH-220	C-CAPACITOR	22PF 5% 50V	
C 703	QER40JM-107	E-CAPACITOR	1000PF 20% 6.3V	
C 704	QCVB1CM-103Y	E-CAPACITOR	.010MF 20% 16V	
C 751	QCVB1CM-103Y	E-CAPACITOR	.010MF 20% 16V	
C 771	QERF1AM-227Z	E-CAPACITOR	220MF 20% 10V	
C 772	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V	
C 773	QCCB1HK-102Y	E-CAPACITOR	1000PF 10% 50V	
C 782	QER41CM-226VM	E-CAPACITOR	22MF 20% 16V	
C 783	QETN0JM-228Z	E-CAPACITOR	2200MF 20% 6.3V	
C 784	QERF1AM-227Z	E-CAPACITOR	220MF 20% 10V	
C 931	QER41HM-105VM	E-CAPACITOR	AM	
C 932	QER40JM-107	E-CAPACITOR	100MF 20% 6.3V	
C 933	QER41AM-107	E-CAPACITOR	100MF 20% 10V	
C 934	QER41CM-476M	E-CAPACITOR	47MF 20% 16V	
C 941	QER41CM-476M	E-CAPACITOR	47MF 20% 16V	
C 942	QER41CM-476M	E-CAPACITOR	47MF 20% 16V	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 705	QRD161J-473	CARBON RESISTOR	TAREEND	
R 706	QRD161J-473	CARBON RESISTOR	STANDBY	
R 707	QRD161J-473	CARBON RESISTOR	TAPEIN	
R 708	QRD161J-473	CARBON RESISTOR	ST/MOND	
R 709	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 712	QRD167J-332	CARBON RESISTOR	KEY2	
R 713	QRD167J-332	CARBON RESISTOR	KEY1	
R 714	QRD167J-332	CARBON RESISTOR	KEY0	
R 715	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 716	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 717	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 718	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 719	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 720	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 721	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 722	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 723	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 724	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 725	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W	
R 731	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
R 751	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 752	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 753	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W	
R 754	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
R 755	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 756	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 757	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W	
R 758	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W	
R 759	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 760	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 761	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 762	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 763	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 771	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R 772	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 773	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 774	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R 775	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R 781	QRD161J-203	CARBON RESISTOR	20K 5% 1/6W	
R 782	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 783	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 784	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 785	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 786	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 788	QRD161J-470	CARBON RESISTOR	47 5% 1/6W	
R 788	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 789	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W	
R 790	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R 791	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 795	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 796	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 921	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R 941	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 942	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
TU 1	0A00003-001			
X 701	VCX5026-001Z	CRYSTAL		

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q 261	25C1740S(R/S)	TRANSISTOR	REAR	
Q 771	25C1740S(R/S)	TRANSISTOR		
Q 772	25C1740S(R/S)	TRANSISTOR		
Q 781	DTA114ESTP	TRANSISTOR		
Q 782	25B1322(RS)	TRANSISTOR		
Q 783	DTA114ES	TRANSISTOR		
Q 784	25B1322(RS)	TRANSISTOR		
Q 785	DTA114ES	TRANSISTOR		
Q 786	DTA114ESTP	TRANSISTOR		
Q 787	DTA114ES	TRANSISTOR		
Q 941	DTA114ES	TRANSISTOR		
Q 942	DTA114ES	TRANSISTOR		
Q 943	DTA114ESTP	TRANSISTOR		
R 1	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 2	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 3	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
R 4	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R 5	QRD161J-433	CARBON RESISTOR	43K 5% 1/6W	
R 6	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R 7	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R 8	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 10	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 11	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 12	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 13	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 14	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 51	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R 62	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 131	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 132	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 133	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 150	QRD161J-153	CARBON RESISTOR	FRONT	
R 154	QRD161J-222	CARBON RESISTOR	FRONT	
R 160	QRD161J-153	CARBON RESISTOR	FRONT	
R 162	QRD161J-821	CARBON RESISTOR	REAR	
R 163	QRD161J-101	CARBON RESISTOR	REAR	
R 164	QRD161J-222	CARBON RESISTOR	REAR	
R 231	QRD161J-223	CARBON RESISTOR	REAR	
R 232	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 233	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 250	QRD161J-153	CARBON RESISTOR	FRONT	
R 254	QRD161J-222	CARBON RESISTOR	FRONT	
R 260	QRD161J-153	CARBON RESISTOR	REAR	
R 262	QRD161J-821	CARBON RESISTOR	REAR	
R 263	QRD161J-101	CARBON RESISTOR	REAR	
R 264	QRD161J-222	CARBON RESISTOR	REAR	
R 541	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
R 701	QRD161J-473	CARBON RESISTOR	DOLBY	
R 702	QRD161J-473	CARBON RESISTOR	MSIN	
R 703	QRD161J-473	CARBON RESISTOR	F/R	
R 704	QRD161J-473	CARBON RESISTOR	MODE	

● Switch board parts list

BLOCK NO. 02111111		BLOCK NO. 02111111		
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 651	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 652	NEF20JM-475RY	TS.E. CAPACITOR	4.7MF 20% 6.3V	
C 653	NCB21HK-681AY	C. CAPACITOR	680PF 10% 50V	
CP701	VNC0335-001	C. CAPACITOR		
D 601	SML-020MV	LED		
D 602	SML-020MV	LED		
D 603	SML-020MV	LED		
D 604	SML-010MTT87	LED		
D 605	SML-010MTT87	LED		
D 606	SML-010MTT87	LED		
D 607	SML-010MTT87	LED		
D 608	SML-010MTT87	LED		
D 609	SML-010MTT87	LED		
D 610	SML-010MTT87	LED		
D 611	SML-010MTT87	LED		
D 612	SML-010MTT87	LED		
D 613	SML-010MTT87	LED		
D 614	SML-010MTT87	LED		
D 615	SML-010MTT87	LED		
D 616	SML-010MTT87	LED		
D 617	SML-010MTT87	LED		
D 618	SML-010MTT87	LED		
D 619	SML-010MTT87	LED		
D 620	SML-010MTT87	LED		
D 621	SML-010MTT87	LED		
D 622	SML-010MTT87	LED		
D 623	SML-020MV	LED		
D 624	SML-010MTT87	LED		
D 625	SML-010MTT87	LED		
D 626	SML-010MTT87	LED		
D 652	MA152WA-TX	DIODE		
D 653	MA152WA-TX	DIODE		
D 654	MA152WK-TX	SI DIODE		
D 655	MA152WK-TX	SI DIODE		
D 656	MA152WA-TX	DIODE		
D 657	MA152WA-TX	DIODE		
D 658	MA152WK-TX	SI DIODE		
D 659	MA152WK-TX	SI DIODE		
IC651	LC75823E	IC		
LCD 1	QLD0002-001	LCD		
PL601	QLL0002-001	LAMP		
PL602	QLL0002-001	LAMP		
PL603	QLL0002-001	LAMP		
PL604	QLL0002-001	LAMP		
R 601	NRSA02J-271NY	MG. RESISTOR	270 5% 1/10W	
R 602	NRSA02J-331NY	MG. RESISTOR	330 5% 1/10W	
R 603	NRSA02J-391NY	MG. RESISTOR	390 5% 1/10W	
R 604	NRSA02J-471NY	MG. RESISTOR	470 5% 1/10W	
R 605	NRSA02J-561NY	MG. RESISTOR	560 5% 1/10W	
R 606	NRSA02J-821NY	MG. RESISTOR	820 5% 1/10W	
R 607	NRSA02J-102NY	MG. RESISTOR	1-0K 5% 1/10W	
R 608	NRSA02J-271NY	MG. RESISTOR	270 5% 1/10W	
R 609	NRSA02J-331NY	MG. RESISTOR	330 5% 1/10W	
R 610	NRSA02J-391NY	MG. RESISTOR	390 5% 1/10W	
R 611	NRSA02J-471NY	MG. RESISTOR	470 5% 1/10W	

BLOCK NO. 02111111		BLOCK NO. 02111111		
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 612	NRSA02J-561NY	MG. RESISTOR	560 5% 1/10W	
R 613	NRSA02J-821NY	MG. RESISTOR	820 5% 1/10W	
R 614	NRSA02J-821NY	MG. RESISTOR	820 5% 1/10W	
R 615	NRSA02J-271NY	MG. RESISTOR	270 5% 1/10W	
R 616	NRSA02J-331NY	MG. RESISTOR	330 5% 1/10W	
R 617	NRSA02J-391NY	MG. RESISTOR	390 5% 1/10W	
R 618	NRSA02J-471NY	MG. RESISTOR	470 5% 1/10W	
R 619	NRSA02J-561NY	MG. RESISTOR	560 5% 1/10W	
R 621	NRSA02J-222NY	MG. RESISTOR	2.2K 5% 1/10W	
R 622	NRSA02J-391NY	MG. RESISTOR	390 5% 1/10W	
R 623	NRSA02J-391NY	MG. RESISTOR	390 5% 1/10W	
R 624	NRSA02J-222NY	MG. RESISTOR	2.2K 5% 1/10W	
R 625	NRSA02J-391NY	MG. RESISTOR	390 5% 1/10W	
R 626	NRSA02J-391NY	MG. RESISTOR	390 5% 1/10W	
R 627	NRSA02J-222NY	MG. RESISTOR	2.2K 5% 1/10W	
R 628	NRSA02J-391NY	MG. RESISTOR	390 5% 1/10W	
R 629	NRSA02J-391NY	MG. RESISTOR	390 5% 1/10W	
R 630	NRSA02J-271NY	MG. RESISTOR	270 5% 1/10W	
R 631	NRSA02J-271NY	MG. RESISTOR	270 5% 1/10W	
R 633	NRSA02J-681NY	MG. RESISTOR	680 5% 1/10W	
R 634	NRSA02J-681NY	MG. RESISTOR	680 5% 1/10W	
R 635	NRSA02J-152NY	MG. RESISTOR	1.5K 5% 1/10W	
R 636	NRSA02J-152NY	MG. RESISTOR	1.5K 5% 1/10W	
R 637	NRSA02J-681NY	MG. RESISTOR	680 5% 1/10W	
R 638	NRSA02J-681NY	MG. RESISTOR	680 5% 1/10W	
R 651	NRSA02J-152NY	MG. RESISTOR	1.5K 5% 1/10W	
R 652	NRSA02J-473NY	MG. RESISTOR	47K 5% 1/10W	
R 653	NRSA02J-154NY	MG. RESISTOR	150K 5% 1/10W	
R 654	NRS181J-103NY	MG. RESISTOR	10K 5% 1/8W	
R 655	NRSA02J-103NY	MG. RESISTOR	10K 5% 1/10W	
R 656	NRSA02J-103NY	MG. RESISTOR	10K 5% 1/10W	
S 601	QS04H11-V09Y	TACT SWITCH		
S 602	QS04H11-V09Y	TACT SWITCH		
S 603	QS04H11-V09Y	TACT SWITCH		
S 604	QS04H11-V09Y	TACT SWITCH		
S 605	QS04H11-V09Y	TACT SWITCH		
S 606	QS04H11-V09Y	TACT SWITCH		
S 607	QS04H11-V09Y	TACT SWITCH		
S 608	QS04H11-V09Y	TACT SWITCH		
S 609	QS04H11-V09Y	TACT SWITCH		
S 610	QS04H11-V09Y	TACT SWITCH		
S 611	QS04H11-V09Y	TACT SWITCH		
S 612	QS04H11-V09Y	TACT SWITCH		
S 613	QS04H11-V09Y	TACT SWITCH		
S 614	QS04H11-V09Y	TACT SWITCH		
S 615	QS04H11-V09Y	TACT SWITCH		
S 616	QS04H11-V09Y	TACT SWITCH		
S 617	QS04H11-V09Y	TACT SWITCH		
S 618	QS04H11-V09Y	TACT SWITCH		
S 619	QS04H11-V09Y	TACT SWITCH		
S 620	QS04H11-V09Y	TACT SWITCH		
S 621	QS04H11-V09Y	TACT SWITCH		
S 622	QS04H11-V09Y	TACT SWITCH		

8

Exploded view of enclosure assembly and parts list

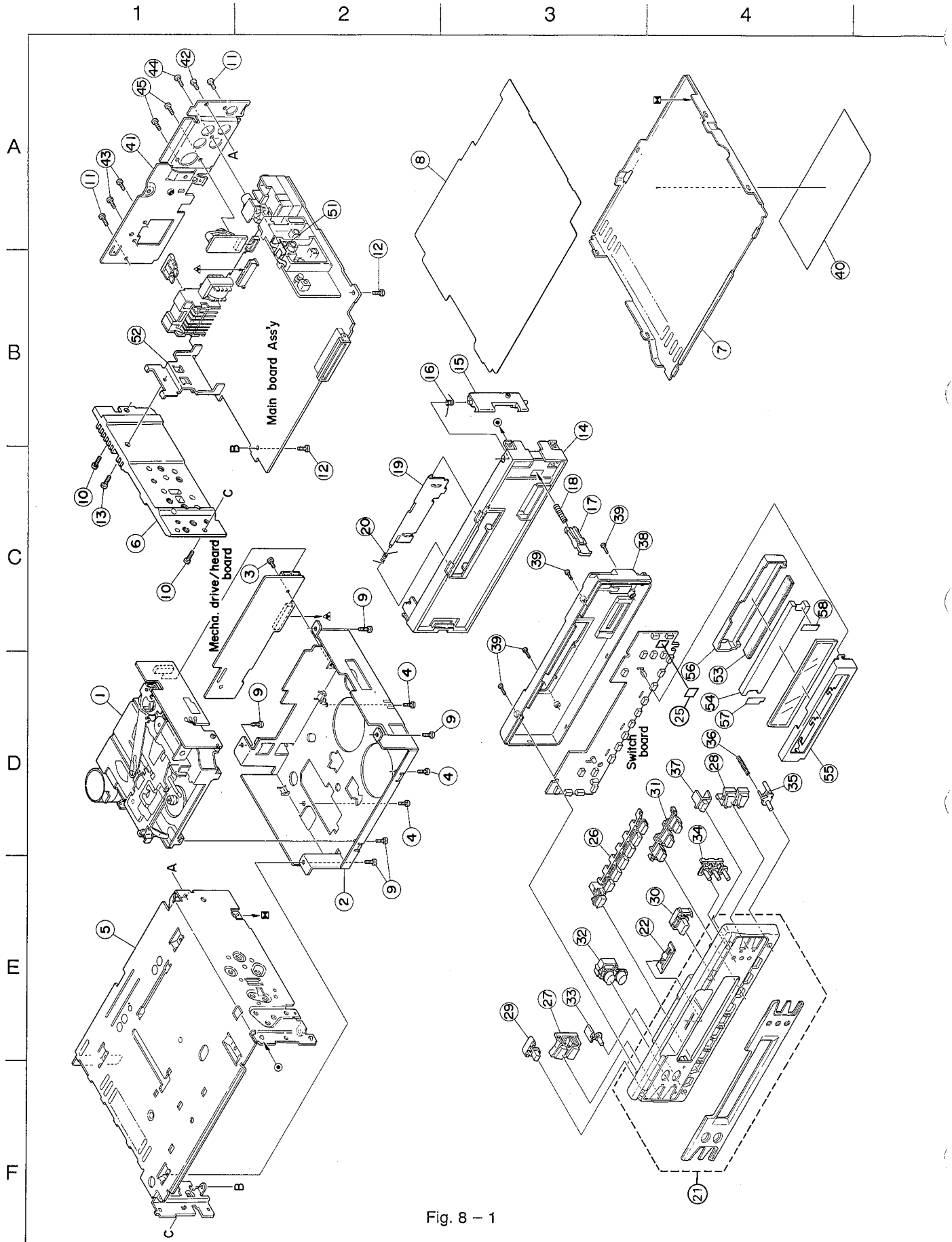


Fig. 8 - 1

● Enclosure parts list

BLOCK NO. M1MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	-----	MECHANISM ASS'Y		1		
	2	FSKM2003-002	MECHA BRACKET		1		
	3	SDST2604Z	SCREW		1		
	4	SDST2604Z	SCREW		4		
	5	FSJC1029-002	TOP CHASSIS		1		
	6	FSMH3001-002	HEAT SINK		1		
	7	FSKM3007-001	BOTTOM COVER		1		
	8	FSMA3004-001	INSULATOR		1		
	9	SDST2604Z	SCREW		4		
	10	SDST2608Z	SCREW		2		
	11	SDST2606Z	SCREW		2		
	12	SDST2606Z	SCREW		2		
	13	SDST2608Z	SCREW		1		
	14	FSJC2009-001	FRONT CHASSIS		1		
	15	FSKS3004-001	LOCK LEVER		1		
	16	FSKW4005-003	TORSION SPRING		1		
	17	FSXP3026-002	RLS KNOB		1		
	18	FSKW3002-004	COMP.SPRING		1		
	19	FSJC4003-010	CASSETTE LID		1		
	20	VKW4947-003	DOOR SPRING		1		
	21	FSJC3010-00B	FRONT PANEL ASS		1		
	22	FSJK3006-001	LIGHT LENS		1		
	25	FSYH4036-008	SPACER		1		
	26	FSXP2022-001	PRESET BUTTON		1		
	27	FSXP3036-001	+/- BUTTON		1		
	28	FSXP3037-001	UP DOWN BUTTON		1		
	29	FSXP3033-001	POWER BUTTON		1		
	30	FSXP3034-001	EJECT BUTTON		1		
	31	FSXP2023-003	D.FUNC BUTTON		1		
	32	FSXP3038-003	SND/C. BUTTON		1		
	33	FSXP4001-001	DISPLAY BUTTON		1		
	34	FSXP3039-001	PUSH BUTTON		1		
	35	FSXP3035-001	DETACH BUTTON		1		
	36	FSKW3002-008	COMP.SPRING		1		
	37	FSJK4007-001	REMOTE LENS		1		
	38	FSJC1026-002	REAR COVER		1		
	39	SPSF1780M	MINI SCREW		4		
	40	FSYN3019-006	NAME PLATE		1		
	41	FSKM3008-001	REAR BRACKET		1		
	42	SDST2606Z	SCREW		1		
	43	SDSP2606Z	SCREW		2		
	44	SDSF3006Z	SCREW		1		
	45	SDSF2608Z	SCREW		2		
	51	VMA4652-001SS	EARTH PLATE		1		
	52	FSKL4013-001	IC BRACKET		1		
	53	VMZ0149-001	LCD CONNECTOR		1		
	54	FSJK3008-002	L.C.D.LENS		1		
	55	FSYH3011-001	LCD CASE		1		
	56	VKS3750-002	LENS CASE		1		
	57	FSYT4004-001	BLIND(L)		1		
	58	FSYT4005-001	BLIND(R)		1		

9 Exploded view of mechanism assembly and parts list

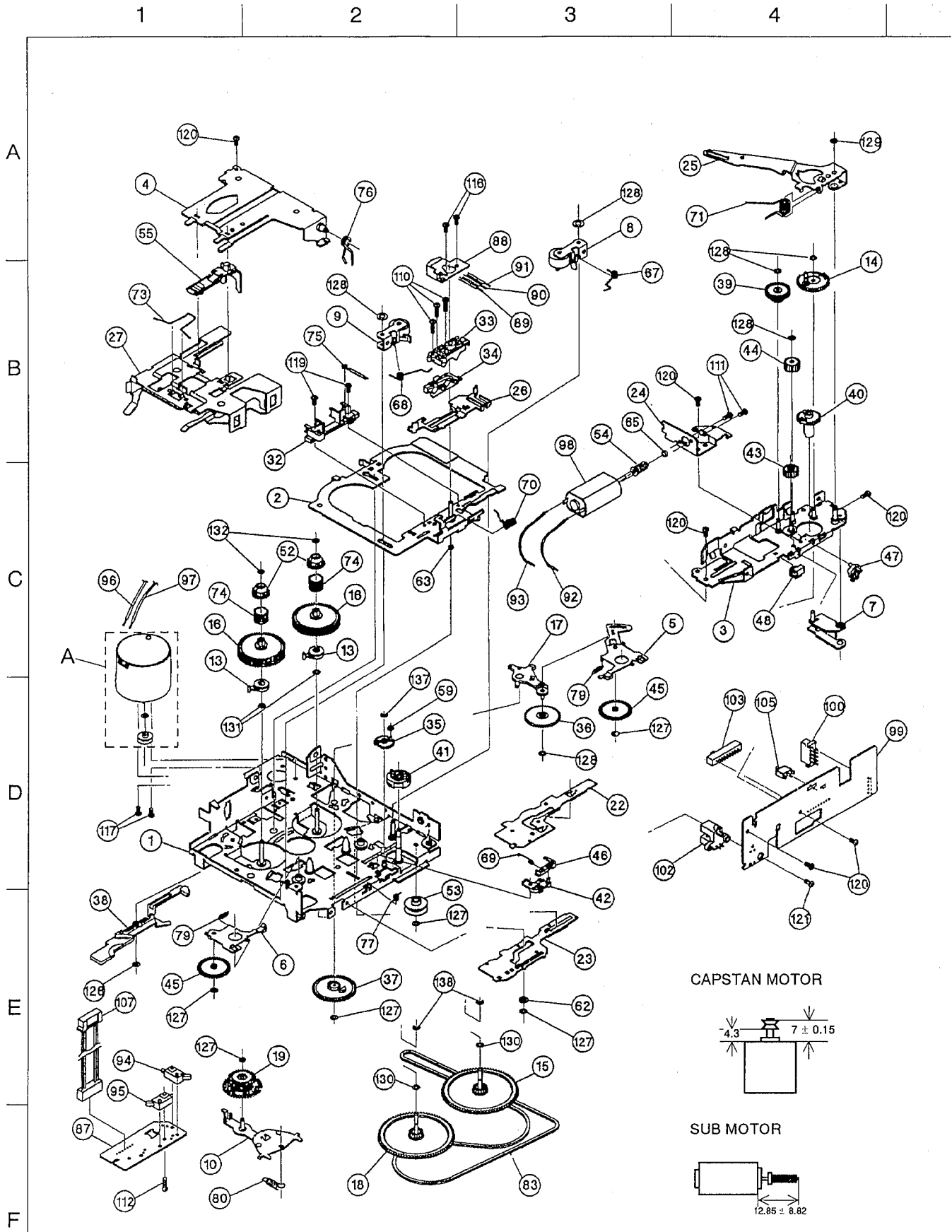


Fig. 9 - 1

● Mechanism assembly parts list

BLOCK NO. M2MM | | |

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	100367057S-SA1	DC MOTOR		1		
	1	1-0522-6001S	CHASSIS ASS'Y		1		
	2	1-0522-6002S	HEAD PLATE ASSY		1		
	3	1-0522-6003S	SUB CHASSIS ASY		1		
	4	X-0522-1004S	HOLDER ARM ASSY		1		
	5	X-0522-1006S	T.U.ARM(F)ASS'Y		1		
	6	X-0522-1007S	T.U.ARM(R)ASS'Y		1		
	7	X-0522-1010S	SET ARM ASS'Y		1		
	8	X-0522-1019S	PINCH ARM(F)ASY		1		
	9	X-0522-1020S	PINCH ARM(R)ASY		1		
	10	X-0522-1022S	FR ARM ASS'Y		1		
	13	X-0522-2008S	DETECT ARM ASSY		2		
	14	X-0522-2010S	LOAD GEAR ASS'Y		1		
	15	X-0522-2016-2S	FLYWHEEL ASY(FJ		1		
	16	X-0522-2018S	REEL TABLE ASSY		2		
	17	X-0522-2020S	REDUCT.GEAR ARM		1		
	18	X-0522-2021-2S	FLYWHEEL ASY(RJ		1		
	19	X-0052-2001S	F.R. GEAR ASS'Y		1		
	22	1-0522-1008S	DIR.PLATE		1		
	23	1-0522-1009S	FF/REW PLATE		1		
	24	1-0522-1012S	MOTOR BKT		1		
	25	1-0522-1013S	LOAD ARM		1		
	26	1-0522-1014S	SHIFT CAM LINK		1		
	27	1-0522-1017S	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	1-0522-2007S	DETECTOR		1		
	39	1-0052-2012S	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	1-0052-2010S	WORM		1		
	55	1-0052-2032S	CATCH(K)		1		
	59	1-0522-3005S	SELECT GEAR COL		1		
	62	1-0052-3028S	H.B. ROLLER(L)		1		
	63	1-0052-3029S	H.B. ROLLER(S)		1		
	65	1-0522-3026S	WORM COLLAR		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 SPG		1		
	71	1-0522-4006S	LOAD ARM SPG		1		

BLOCK NO. M2MM III

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
73	1-0522-4008S	CATCH SPG		1		
74	1-0522-4010S	REEL DRIVER SPG		2		
75	1-0522-4011S	DASH SPG		1		
76	1-0522-4014S	HOLDER ARM SPG		1		
77	1-0522-4016S	HOLD SPG		1		
79	1-0522-4017S	TU ARM SPG		2		
80	1-0522-4015S	FR ARM SPG		1		
83	1-0052-5022S	BELT		1		
87	1-0522-7002S	REEL PWB		1		
88	1-0522-7003S	2CH HEAD	P-7742-HG	1		
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	1-0052-7082-0S	SUB MOTOR WIRE	RED	1		
93	1-0052-7082-2S	SUB MOTOR WIRE	BLACK	1		
94	1-0522-7010S	LEAF SW	MLS-2	1		
95	1-0522-7011S	LEAF SW	MLS-4	1		
96	1-0522-7013S	MOTOR WIRE	RED	1		
97	1-0522-7014S	MOTOR WIRE	BLACK	1		
98	1-0522-7018S	SUB MOTOR	PPN13EB10C	1		
99	1-0522-7022S	HEAD PWB(JV)		1		
100	1-0522-7024S	CONNECTOR 10P	TKC-F10X-K1	1		
102	X-0052-7040S	PHOTO COUPLER		1		
103	1-0036-7007-1S	SLIDE SW	SLD-32-710S	1		
105	1-0056-7011S	SW	SW-112-5	1		
107	1-0052-7013S	JOINT WIRE (7P)		1		
110	1-0522-5003S	AZIMUTH SCREW		3		
111	1-0052-5023S	+MOTOR SCREW	M2X2.5	2		
112	1-0101-5006S	+SCREW PLAIN	M1.7X7	2		
116	1-0522-5005S	SPECIAL SCREW(2		2		
117	2-1032-0022-C2S	+MACHINE SCREW	M2X2.2	2		
119	1-0522-5006S	SPECIAL SCREW(3		2		
120	2-1332-0030-C1S	+SCREW PLAIN#3S	M2X3	6		
121	2-1382-0050-C2S	+PLAIN B-TYPE#3	M2X5	1		
127	2-1812-0030-D2S	POLY WASHER(S)	1.2X3X0.25	6		
128	2-1816-0032-D2S	POLY WASHER(S)	1.6X3.2X0.25	7		
129	2-1816-0032-52S	PSW-S	1.6X3.2X0.5	1		
130	2-1821-0032-D1S	PSW	2.1X3.2X0.25	2		
131	2-1821-0040-D1S	POLY WASHER	2.1X4X0.25	2		
132	1-0053-5005S	LMW-S	1.5X3.2X0.25	2		
137	2-1711-5040-16S	E RING	1.5	1		
138	2-1711-6032-96S	E RING		2		

10 Illustration of packing and parts list

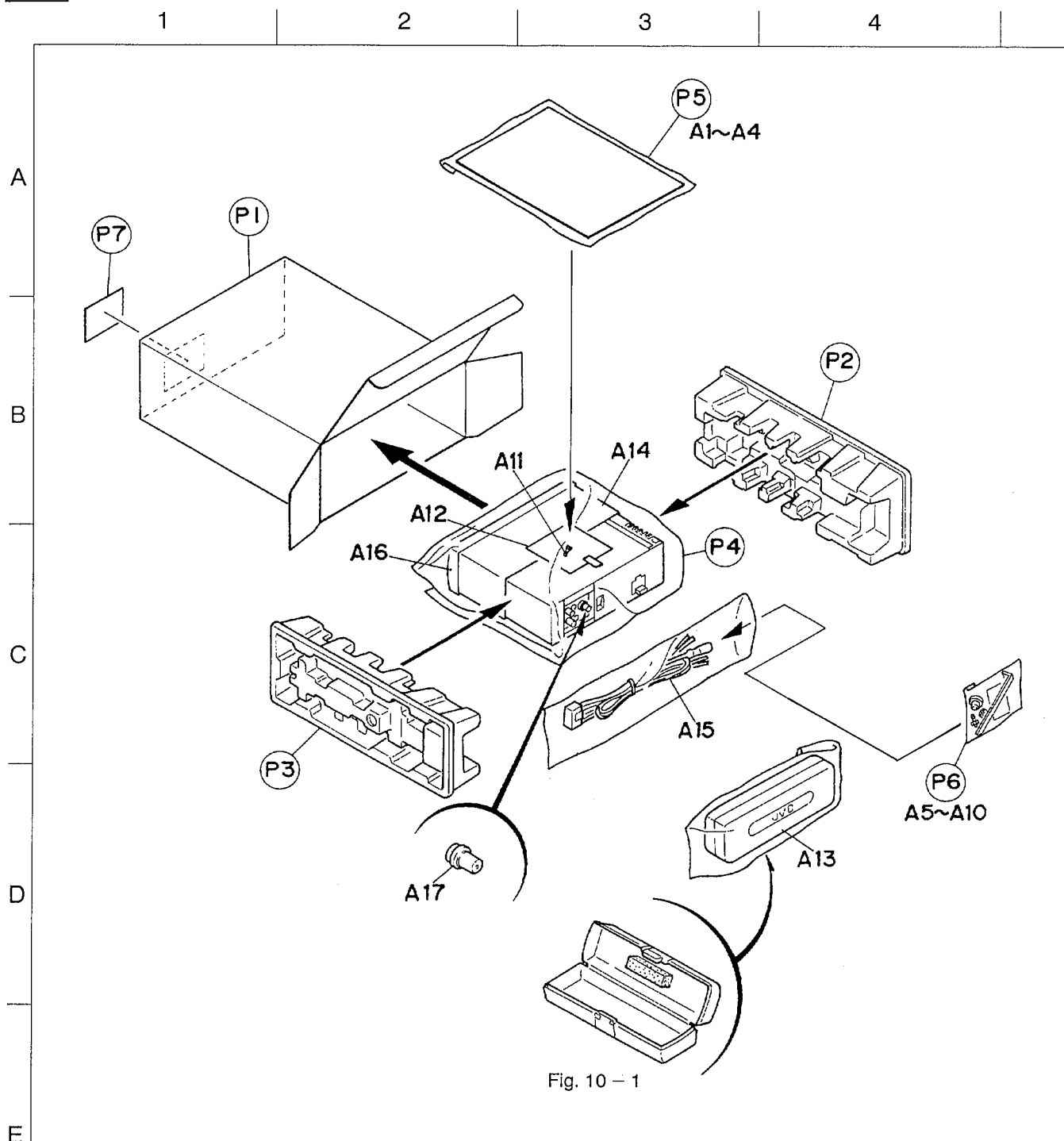


Fig. 10 - 1

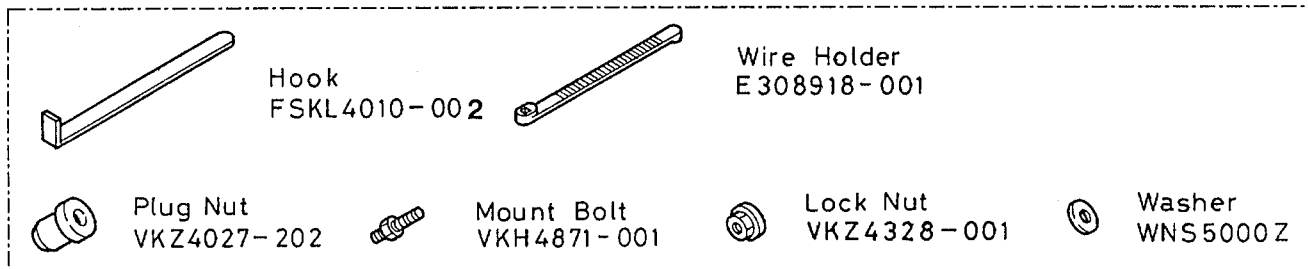
● Packing parts list

BLOCK NO. M3MM

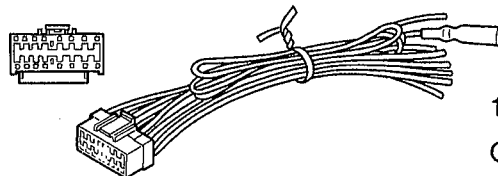
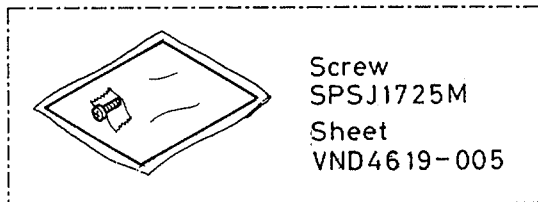
△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	FSPE3001-028	CARTON		1		
P	2	FSPH1009-001	PAPER CUSHION	LEFT	1		
P	3	FSPH1010-001	PAPER CUSHION	RIGHT	1		
P	4	VPE3005-066	POLY BAG	FOR SET	1		
P	5	QPGA017-02505	POLY BAG	FOR INSTRUCTOPN	1		
P	6	QPGA008-01205	POLY BAG		1		
P	7	FSND3006-006	CARTON LABEL		1		

● Accessories parts

◆ SCREW KIT 1



◆ SCREW KIT 2



MINI DIN CAP
VYTA510 - 001

● Accessories parts list

BLOCK NO. M3MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	1	FSUN3017-631S	INSTRUCTIONS		1		
A	2	VNC2400-090	CAUTION SHEET		1		
		VNC2400-112	INST.SHEET		1		
A	3	BT-51009-2S	WARRANTY CARD		1		
		BT-52001-3S	WARRANTY CARD		1		
A	4	BT-20071B	SVC CENTER LIST		1		
		BT-20137	SERVICE NETWORK		1		
A	5	VKZ4027-002	PLUG NUT		1		
A	6	VKH4871-001	MOUNT BOLT		1		
A	7	VKZ4328-001	LOCK NUT		1		
A	8	WNS5000Z	WASHER		1		
A	9	FSKL4010-002	HOOK		2		
A	10	E308918-001	TIE BAND		1		
A	11	SPSF1780M	MINI SCREW		1		
A	12	FSYA4001-001	SHEET		1		
A	13	FSJB3001-00A	HARD CASE		1		
A	14	FSKM2004-001	MOUNTING SLEEVE		1		
A	15	QAM0013-001	16PIN CONNECTOR		1		
A	16	FSJD2019-001	TRIM PLATE		1		
A	17	VYTA510-001	MINI DIN CAP		1		
KIT	1	KSRT620K-SCREW1	SCREW PARTS KIT	A5-A11,P6	1		
KIT	2	KSRT320K-SCREW2	SCREW PARTS KIT	A11-A12	1		



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