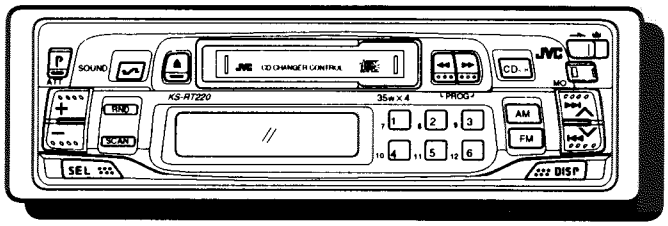
JVC

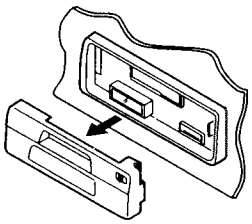
SERVICE MANUAL

CASSETTE RECEIVER

KS-RT220 J/E/G



Detachable



Area Suffix	
J	U.S.A
E	Europe
G	Germany

Contents

No. 49405
December 1996

1. Safety Precautions

> ⚠ **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.**

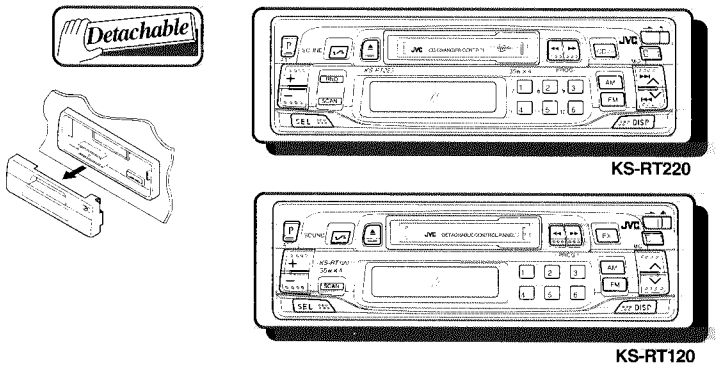
JVC

CASSETTE RECEIVER KS-RT220/KS-RT120

RECEPTOR-REPRODUCTOR DE CASSETTE KS-RT220/KS-RT120

RADIOCASSETTE KS-RT220/KS-RT120

ENGLISH
ESPAÑOL
FRANÇAIS



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.

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. _____

J version

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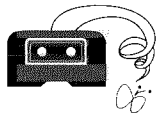
Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain a longer service life from the unit.

CONTENTS *(For KS-RT220/RT120)*



2

2. Instructions

KS – RT220 J/E/G

ENGLISH

Using the other equipment

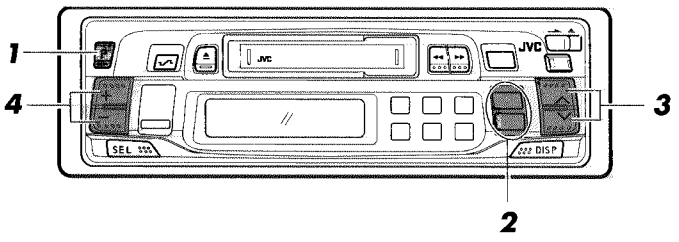
BEFORE USE

* **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.

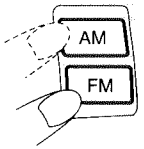
RADIO OPERATION

Listening to the radio



1 

Switch on.

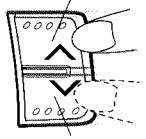
2 

AM

FM 1 → FM 2 → FM 3 Select band.

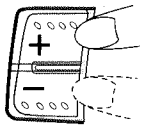
FM1, FM2, FM3 have the same frequency range and up to 6 stations can be preset in each band.

3 Press to seek up.



Press to seek down.

Tune. Use manual or seek tuning to find a station. (see page 6)

4 

Adjust volume.

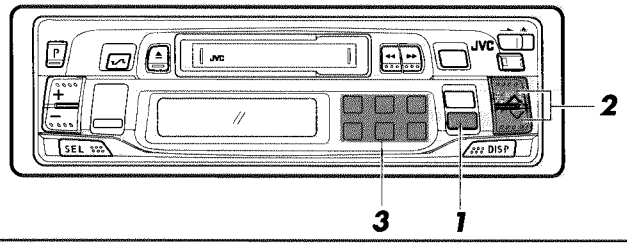
Note:
Power (P)/Attenuator (ATT) button.
Power (P): Press to turn the power ON. Press for more than 1 second to turn the power OFF.
ATT: When this button is pressed during operation, the volume drops and the ATT indicator blinks. Press again to return to the original volume.

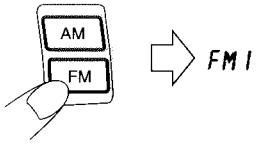
Storing the desired stations in memory

Manual Station Preset

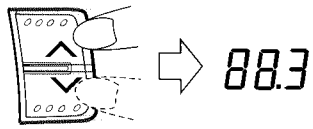
You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) as follows.

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

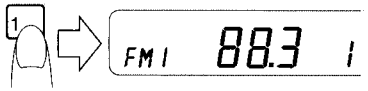


1 

Select the FM1 band using the FM Band button.

2 

Use manual or seek tuning to find a station that you want to store in memory. (see page 6)

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).

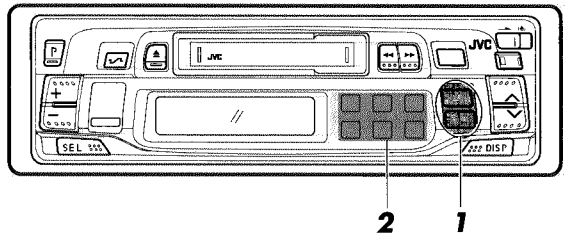
Notes:

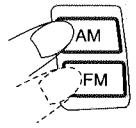
- *A previously preset station is erased when a new station is stored in memory.*
- *The preset stations are erased when the power supply to the memory circuit is interrupted during battery replacement, etc. When this occurs, preset the stations again.*

ENGLISH

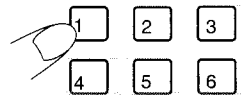
Receiving the preset stations

Preset Station Tuning

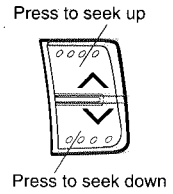


1 

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 v). The MANU 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 MANU indicator goes out.

Seek Tuning

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

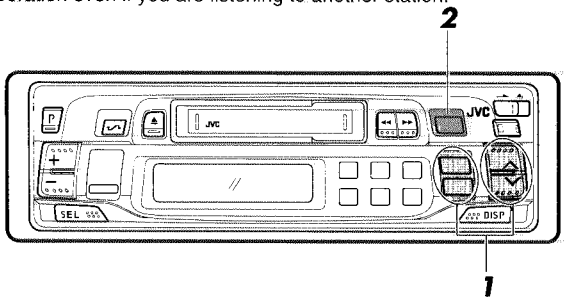
Scan Tuning

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.

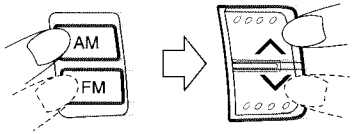
Storing one desired station in memory

Extra Station Preset Tuning (KS-RT120 only)

When the extra station (like the traffic information station etc.) is preset, it can be recalled by one touch operation even if you are listening to another station.

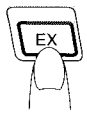


1



Tune to the desired station.

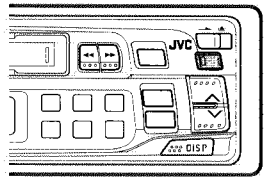
2



Press the EX button for 2 seconds or more. ("0" blinks on the preset display, showing that the station has been preset.)

- When the EX button is pressed while you are listening to an FM or AM broadcast, the extra station is selected to be tuned in. Pressing it again tunes to the previously-heard broadcast.

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.

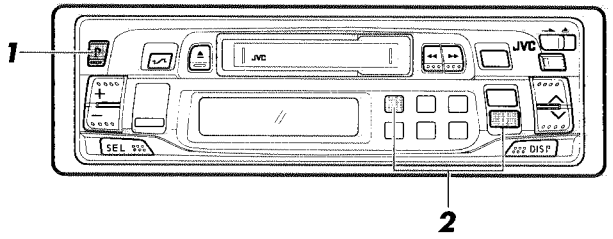
Antenna Noise

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

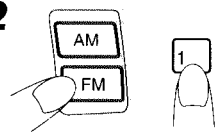
When this unit is purchased, the channel intervals are set to 10 kHz for AM and 200 kHz for FM. If the unit is used in an area other than North or South America, adjust as follows:



1

Switch on.

2



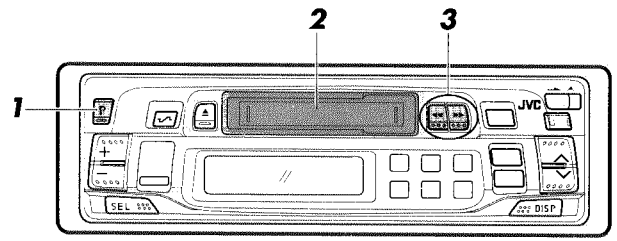
While pressing the FM Band button, press Preset Station button 1 for more than 3 seconds.

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 operation.

TAPE OPERATION

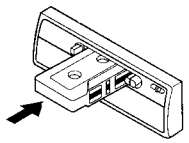
Listening to a tape



1

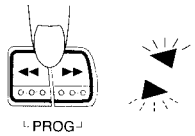
Switch on.

2



Insert a cassette.

3



Select program (tape direction).
(Press both buttons together.)

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.*

ENGLISH

How To Fast-Wind Tapes

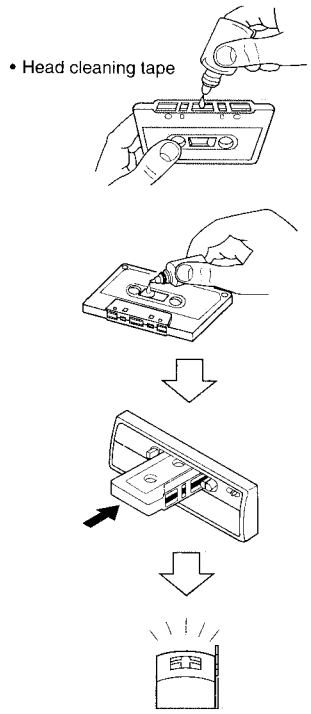
To fast-wind tapes, press either the ◄◄ or ►► button. The tape will be wound in the direction of the arrows (◄◄ or ►►). To restart playback, **lightly** press the ◄◄ or ►► button.

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(◄◄/►►) buttons. The change in direction can be checked in the Tape Direction indicator.

For use as long as possible

Cleaning The Head



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.

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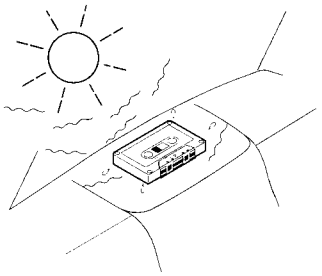
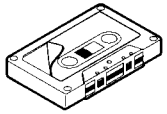
Tape Care Hints



Incorrect



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.

- 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.

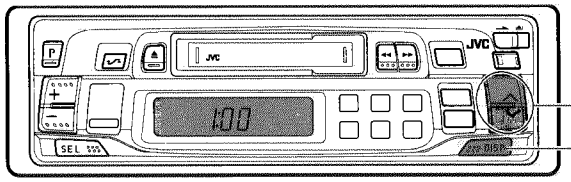
CLOCK ADJUSTMENT

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

Make sure the display is in clock mode, then, while pressing the DISP button, press the Hour Adjustment button (∨) to adjust the "hours", and press the Minute Adjustment button (∧) to adjust the "minutes".



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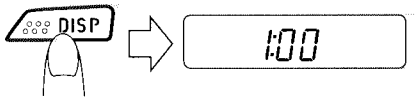
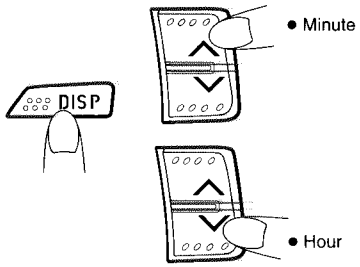


Select the clock mode.

2



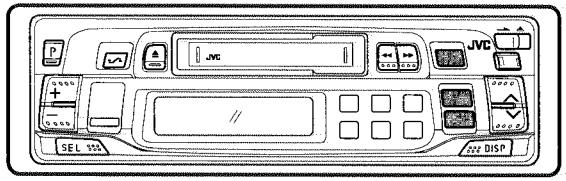
While pressing the DISP button, press the Hour or Minute adjustment button.

OTHER FUNCTIONS

Selecting the desired source with the power off

One Touch Operation

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



(KS-RT220)	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.
AM / FM	**TUNER**	When either button is pressed, the tuner is engaged.

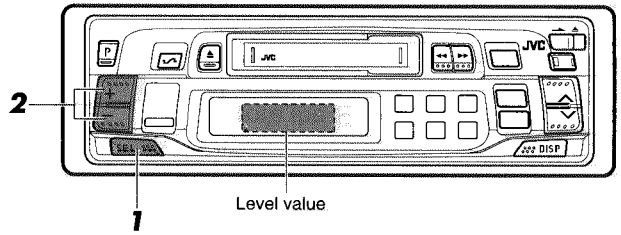
(KS-RT120)	Function mode	Operations
EX / AM / FM	**TUNER**	When any of 3 buttons is pressed, the tuner is engaged.

Note:
When the above button is pressed with a tape inserted and the power off, tape playback will begin.

ENGLISH

Adjusting the sound characteristics

Audio Level Control



1. Select the control mode with the SEL button.
2. Adjust the level with the level control buttons.

Electronic control mode	***1*** Select.	***2*** Adjust.		
VOL	Volume	Decreases	(00 – 50)	Boosts
bAS	Bass	Decreases	(–6) – (6)	Boosts
TRE	Treble	Decreases	(–6) – (6)	Boosts
FAd	Fader	Rear	(R5 – F5)	Front
bAL	Balance	Left	(L6 – R6)	Right
LOUd	Loudness	Off		On

Fader Control

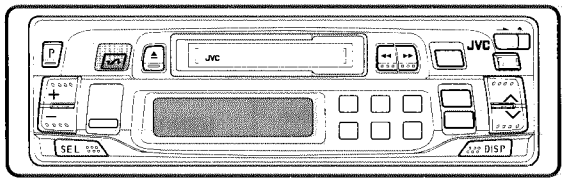
- **When used in a 4-speaker system**
  Use this control to balance the volume levels of the front and rear speakers.
- **When used in a 2-speaker system**
  Set this control to the center position ("0" is displayed).

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)

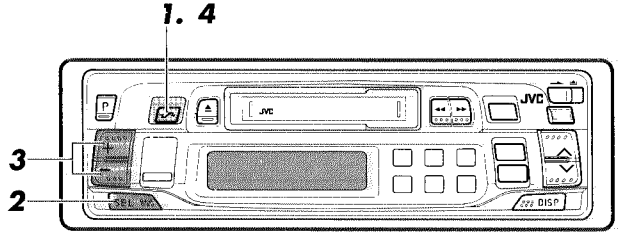


Sound mode		SOUND	Preset level value		
			Bass	Treble	Loudness
OFF	Off	(flat characteristics)	0	0	On
bEA7	Beat	For music with a heavy beat, such as rock or disco music.	2	0	On
SOF7	Soft	For quiet background music.	1	–3	Off
POP	Pop	For light music including popular and vocal music.	4	1	Off

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 SOUND ⇨ bEA7 Press the SOUND button to select the mode to be changed (Beat, Soft, Pop).

2 SEL ⇨ bAS Within 5 seconds, press the SEL button to select the sound characteristics to be changed (Bass, Treble, Loudness).

3 + – 2 ⇨ 5 Within 5 seconds, set the desired level with the level control button.

4 SOUND ⇨ -bEA7-

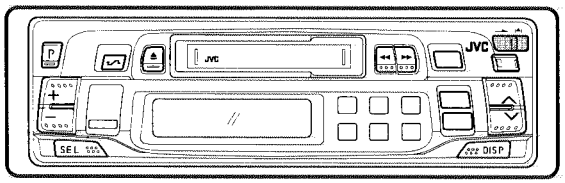
Within 5 seconds, press the SOUND button to store the set level in memory, and hold it for more than 2 seconds. (The mode indication blinks when the level has been stored in memory.)

* 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.

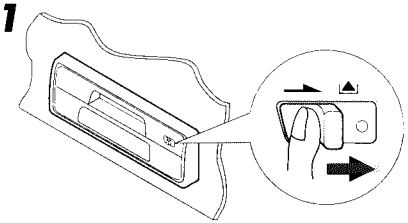
When leaving the car

How To Detach The Control Panel

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

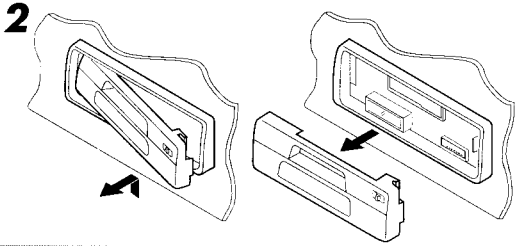


1



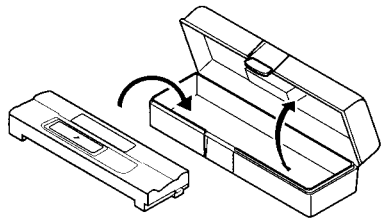
Slide the Control Panel Release (⏏) switch in the direction of the arrow to detach the control panel.

2



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

3

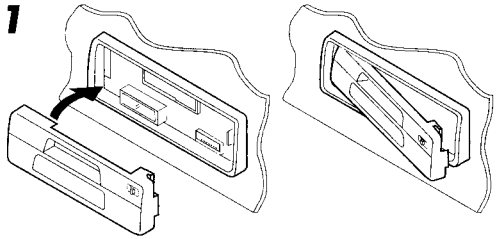


Put the control panel in the provided case for protection.

ENGLISH

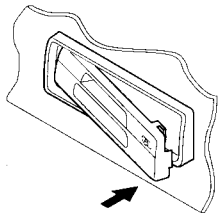
How To Attach The Control Panel

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.*

(No.49405) 11

KS – RT220 J/E/G

Using the other equipment

CD CHANGER OPERATION (KS-RT220 only)

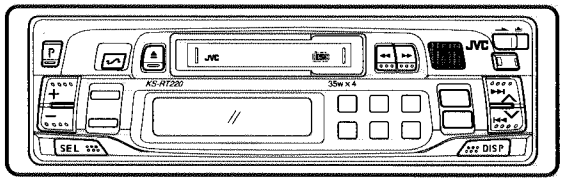
ENGLISH

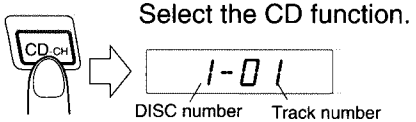
PRECAUTIONS

- 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, "----" will be shown in the display. If this happens, remove the magazine and set the discs correctly.
- When "R-1 – R-8" is shown in the display of the unit, confirm that the cord is connected and press the RESET button of the CD Changer.

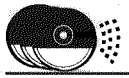
Playing all tracks

Playing Compact Discs





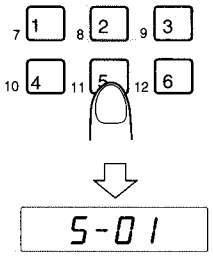
- When all tracks on the first disc have been played, the second disc starts automatically from the first track.



Selecting a disc

Disc Selection

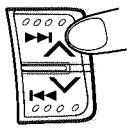
Example: (To specify disc 5)



- **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.

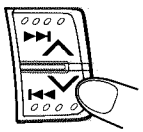
Skipping to the beginning of a track

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.

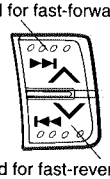


How to listen to the previous track...
Press the (|◄◄) button once to skip to the beginning of the current track, then again to skip to the previous track.

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

Locating a required position on the disc

Search Playback



- 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.

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.

ENGLISH

TROUBLESHOOTING

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

Symptoms	Causes	Remedies
* **Cassette tape cannot be loaded.**	—	Press the ▲ button and insert once again.
	It is loaded in the wrong way.	Insert the cassette with the exposed tape facing right.
* **Cassette tape gets 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 regularly with a head cleanig 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.	Adjust it to the optimum level.
	The cord connection is incorrect.	Confirm the cord connections.
* **Auto tuning doesn't work.**	Broadcast signal strength is too weak.	Tune to stations manually.
* **The track number isn't displayed.**	The display is in Clock mode.	Press the DISP button once again.
* **"----" is displayed.**	CDs aren't set in the magazine. CDs are inserted incorrectly.	Insert CDs into the magazine. Make sure they are correctly inserted.
* **"R-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.
* **"R-1"-"R-7" is displayed.**	—	Press the reset button of CD changer.

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KS – RT220 J/E/G

SPECIFICATIONS

AUDIO AMPLIFIER SECTION
Maximum Power Output: (Front) 35 watts per channel (Rear) 35 watts per channel
Continuous Power Output (RMS): (Front) 15 watts per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8% total harmonic distortion. (Rear) 15 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: 12.1 dBf (1.1 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 to 15,000 Hz
Stereo Separation: 35 dB
Capture Ratio: 2.0 dB
[AM Tuner]
Sensitivity: 20 μV
Selectivity: 35 dB

CASSETTE DECK SECTION
Wow & Flutter: 0.15% (WRMS)
Fast-Wind Time: 190 sec. (C-60)
Frequency Response: 50 to 14,000 Hz (±3 dB)
Signal-to-Noise Ratio: 52 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 152 mm (7-3/16" x 2-1/16" x 6")
Panel Size: 189 x 58 x 14 mm (7-1/2" x 2-5/16" x 5/8")
Gross Weight: 1.9 kg (4.2 lbs)

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-RT220/RT120)

Empleo de otro equipo

ANTES DE USAR

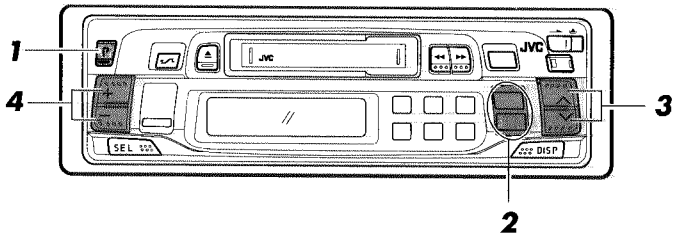
* **Para seguridad....**
No levante demasiado el volumen ya que ello bloqueará los sonidos exteriores haciendo la conducción peligrosa.
Pare el automávil antes de efectuar las operaciones complicadas.

* **Temperatura dentro del automóvil....**
Si el automóvil ha estado estacionado durante largo tiempo en un lugar caliente o frío, espere hasta que la temperatura dentro del mismo se normalice, antes de operar la unidad.

ESPAÑOL

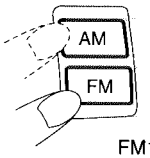
OPERACION DE LA RADIO

Escucha de la radio



1 

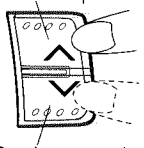
Encender.

2 

AM
FM 1 → FM 2 → FM 3
Seleccione la banda.

FM1, FM2 y FM3 tienen los mismos límites de frecuencia y es posible presintonizar hasta 6 radiodifusoras en cada banda.

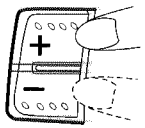
3 Presione para buscar hacia arriba.



Sintonizar.

Emplee la sintonización o la búsqueda manual. (ver página 28)

Presione para buscar hacia abajo.

4 

Ajustar volumen.

Nota:
Botón Power (P)/Atenuador (ATT)
Power (P): Presiónelo para encenderlo ON. Presiónelo durante más de 1 segundo para apagar OFF la alimentación.
ATT: Cuando se presiona este botón durante la operación, el volumen se reduce y el indicador ATT parpadea. Presiónelo nuevamente para regresar al volumen original.

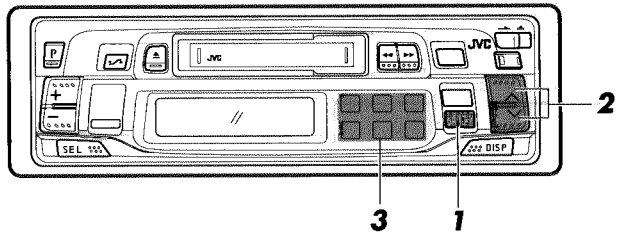
ESPAÑOL

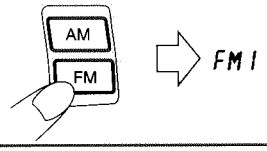
Almacenamiento de las radiodifusoras deseadas en memoria

Presintonizacion Manual De Radiodifusora

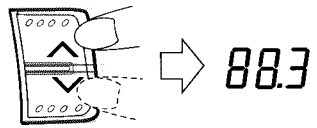
Usted puede presintonizar un máximo de 6 estaciones en cada banda (FM1, FM2, FM3 y AM) de la siguiente manera.

- Ejemplo (para almacenar la emisora de FM de 88.3 MHz de la banda FM1 en el botón de almacenamiento de emisoras "1")



1 

Seleccione la banda FM1 utilizando el botón de banda FM.

2 

Empleo de la sintonización manual o búsqueda de sintoniza para encontrar la radiodifusora que desea almacenar en memoria. (ver página 28)

3 

Presione el botón "1" de estación presintonizada durante más de 2 segundos. (Cuando "1" parpadea en la indicación de estación presintonizada, la estación está presintonizada).

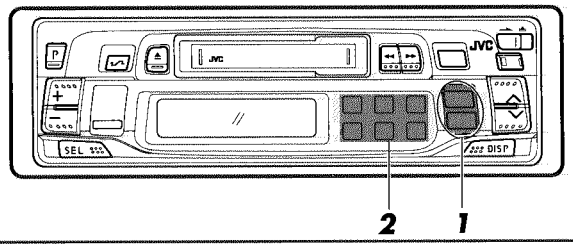
- Repita el procedimiento de arriba para los otros 5 botones de estación presintonizada y para otras bandas (FM2, FM3 y AM).

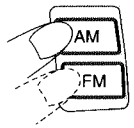
Notas:

- *Cuando se almacena una nueva estación en la memoria, se borra la estación presintonizada anteriormente.*
- *Las estaciones presintonizadas se borran cuando se corta la alimentación del circuito de la memoria durante el reemplazo de la batería, etc. Cuando ello ocurra, presintonice las estaciones nuevamente.*

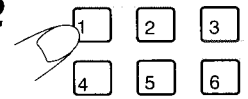
Recepción de estaciones presintonizadas

Sintonizacion De Estacion Presintonizada



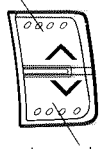
1 

Seleccione la banda.

2 

Presione los botones requeridos de estación presintonizada (No. 1 a No. 6).

Presione para buscar hacia arriba



Presione para buscar hacia abajo

Sintonización manual

Para activar el modo manual, mantenga presionado el botón de sintonización (⩓ o ⩔). El indicador MANU parpadea. Presione el botón de sintonización para sintonizar la frecuencia deseada.

Los pasos de búsqueda de frecuencia son los siguientes:
FM — en unidades de 200 kHz (o 50 kHz)
AM — en unidades de 10 kHz (o 9 kHz)

- Aproximadamente 5 segundos después de completar la sintonización manual la unidad conmuta otra vez al modo de búsqueda y se apaga el indicador MANU.

Sintonización por búsqueda

Presione el botón ⩓ o el ⩔; la unidad ingresa en el modo de búsqueda de sintonía y sintoniza frecuencias más altas o más bajas. Cuando se recibe una emisión, la sintonización para automáticamente y se puede escuchar el programa.

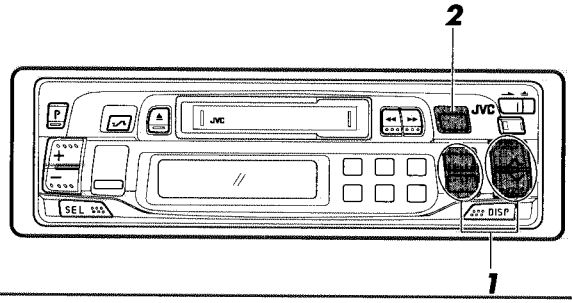
Búsqueda de sintonía

Cuando presiona el botón de búsqueda, se inicia la búsqueda automática hacia las frecuencias más altas. CAda vez que la unidad recibe una radiodifusión, la frecuencia indicada parpadea y es monitoreada durante 5 segundos aprox. Si usted desea escuchar la frecuencia sintonizada, presione otra vez el botón de búsqueda para desactivar la búsqueda automática.

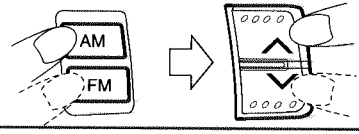
Almacenamiento de una radiodifusora deseada en memoria

Presintonizacion De Estacion Extra (KS-RT120 exclusivamente)

Si hay una radiodifusora extra presintonizada (radiodifusora de información de tráfico, etc.), la misma puede ser llamada por medio de la operación de un sólo toque aunque esté escuchando otra radiodifusora.



1



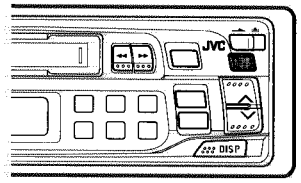
Sintonice la estación deseada.

2

Presione el botón EX durante 2 segundos o más. ("0" parpadea en la indicación de presintonización indicando que la estación ha sido presintonizada).

- Cuando se presiona el botón EX mientras escucha un programa de FM o AM, se sintoniza la estación extra seleccionada. El presionarlo otra vez sintoniza la radioemisión que estaba escuchando antes.

En caso de que una radiodifusión FM estereofónica tenga interferencia



Boton Monofonico

Cuando una emisión de FM sea demasiado ruidosa como para sor oscuchada satisfactoriamente, active MONO.

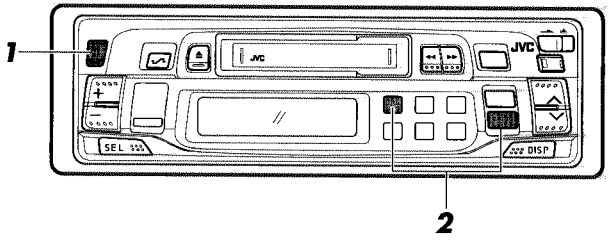
Ruido de antena

Si se escucha ruido de estática cuando escucha AM o FM, verifique que las conexiones de la antena no estén flojas.

Empleo de esta unidad en un área que no sea Norteamérica o América del Sur

Cambio De Intervalos Entre Canales

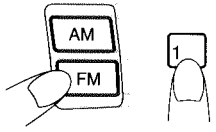
Cuando esta unidad se adquiere, esta unidad está ajustada a intervalos de canal de 10 kHz para AM y de 200 kHz para FM. Si se la usa en un área que no sea América del Norte o del Sur ajústela de la siguiente manera:



1

Encender.

2



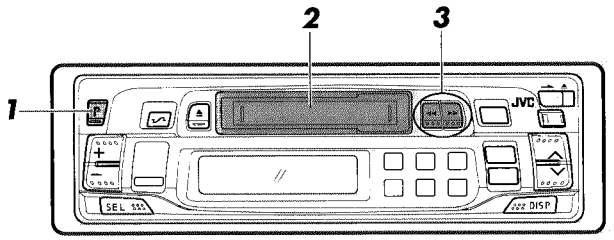
Mantenga presionado el botón de banda FM y presione el botón 1 de estación presintonizada durante más de 3 segundos.

Este procedimiento programa los intervalos entre canales a 9 kHz para AM y 50 kHz (modo manual) y 100 kHz (modo de búsqueda) para FM.

Para regresar a los intervalos originales, repita la operación de arriba.

OPERACION DE LA CINTA

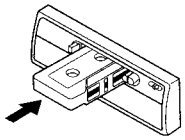
Escucha de una cinta



1

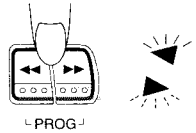
Encender.

2



Coloque un cassette.

3



Seleccione un programa (sentido de la cinta). (Presione ambos botones conjuntamente.)

Notas:

- *No toque la cabeza reproductora altamente pulida con ninguna herramienta metálica o magnética.*
- *Nunca reproduzca cintas sucias o polvorientas ya que esto degradará grandemente el sonido y el rendimiento de su unidad. Siempre mantenga limpias sus cintas.*

ESPAÑOL

Bobinado rápido de cintas

Para avanzar rápidamente las cintas, presione el botón ◄◄ o el ►►. La cinta será arrollada en la dirección de las flechas (◄◄ o ►►). Para iniciar la reproducción, presione **levemente** el botón ◄◄ o ►►.

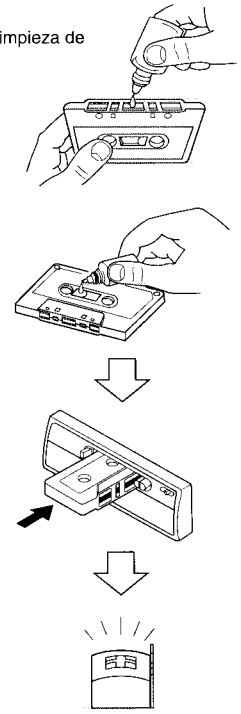
Mecanismo de inversión automática

Cuando la cinta llega al fin, este mecanismo conmuta automáticamente a la reproducción del otro lado. Para escuchar el otro lado de la cinta durante la reproducción, presione los botones PROG (◄◄ / ►►). El cambio de dirección puede ser verificado en el indicador de la dirección de la cinta.

Para emplear tanto como sea posible

Limpieza De La Cabeza

• Cinta para limpieza de cabezas

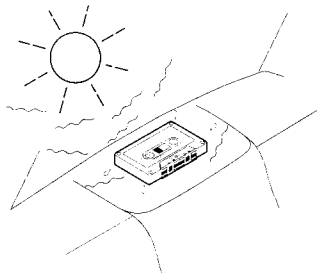


Las cabezas son importantes ya que captan el sonido.
Cuando se ensucian aparecen los siguientes síntomas:

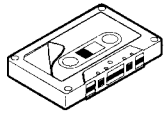
- Se reduce la calidad del sonido.
- Se reduce el nivel del sonido.
- El sonido se escucha intermitentemente (ocurre una caída del mismo).

Estas NO son fallas. Sin embargo, antes de que aparezcan estos síntomas, limpie las cabezas cada 10 horas utilizando una cinta para limpieza de cabezas de tipo húmedo, disponibles en las tiendas de audio. Por más detalles refiérase a las instrucciones sobre la cinta para limpieza de cabezas.

Consejos Para El Cuidado De Cintas



Incorrecto



Es muy importante conservar sus cintas limpias. Colóquelas siempre en sus respectivas cajas después de reproducirlas.
Nunca las coloque bajo la luz solar directa, en lugares muy húmedos o extremadamente calientes.
Nunca reproduzca cintas sucias, con polvo o con etiquetas que se están desadhiriendo, ya que pueden dañar la cabeza.
La cinta floja en un cassette puede causar problemas enredándose en el mecanismo.

- Cuando no escuche las cintas, extraiga sin falta el cassette de la ranura de colocación, ya que la cinta puede aflojarse.

Nota:
Su unidad necesita muy poca atención, pero su funcionamiento óptimo sólo puede ser asegurado si sigue las notas de arriba.

ESPAÑOL

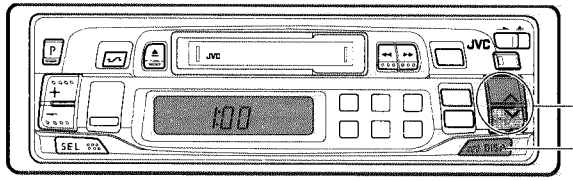
AJUSTE DEL RELOJ

Selección de la indicación de reloj

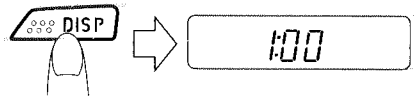
Cada vez que presiona el botón DISP, la indicación conmuta entre el modo de escucha y el modo de reloj.

Método para ajustar el reloj

Asegúrese de que la indicación esté en el modo de hora, luego, mientras presiona el botón DISP, presione el botón (⩒) de ajuste de la hora, para ajustar las "horas" y presione el botón de ajuste de los minutos (⩓) para ajustar los "minutos".

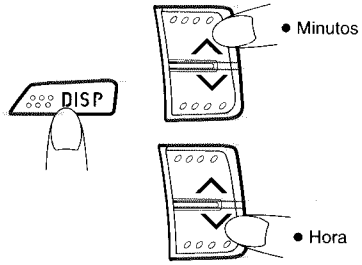


1



Seleccione el modo de reloj.

2



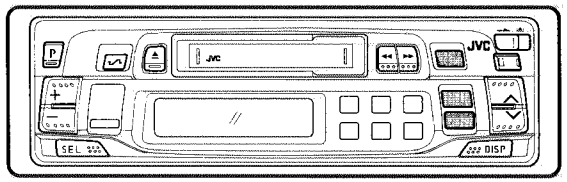
Mantenga presionado el botón DISP y presione el botón de ajuste de horas o minutos.

OTRAS FUNCIONES

Selección de la fuente deseada con la alimentación desconectada

Operacion De Un Soio Toque

El presionar el botón mostrado abajo conecta la alimentación y selecciona la fuente aun cuando la alimentación esté desconectada.



(KS-RT220)

Modo de función	Operaciones
CD·CH	**CD** — Coloque un CD en el cambiador de CD conectado a esta unidad y presione este botón para iniciar la reproducción del CD.
AM / FM	**TUNER** — Al presionar cualquier botón se activa el sintonizador.

(KS-RT120)

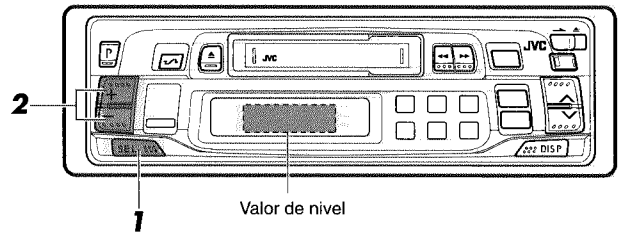
Modo de función	Operaciones
EX / AM / FM	**TUNER** — Al presionar cualquiera de los 3 botones, se activa el sintonizador.

Nota:
Cuando presiona el botón de arriba con una cinta colocada y la alimentación desconectada, se inicia la reproducción de la misma.

ESPAÑOL

Ajuste de las características de sonido

Control Del Nivel De Audio



1. Seleccione el modo de control con el botón SEL.
2. Ajuste el nivel con los botones de control de nivel.

Modo de control electrónico — 1 Seleccione.		2 Ajustar.		
VOL	Volumen	Disminuye	(00 – 50)	Aumenta
bAS	Graves	Disminuye	(–6) – (6)	Aumenta
TRE	Agudos	Disminuye	(–6) – (6)	Aumenta
FAd	Desvanecedor	Posterior	(R5 – F5)	Frontal
bAL	Equilibrio	Izquierdo	(L6 – R6)	Derecho
LOUd	Sonoridad	Desactivada		Activada

Control de atenuación

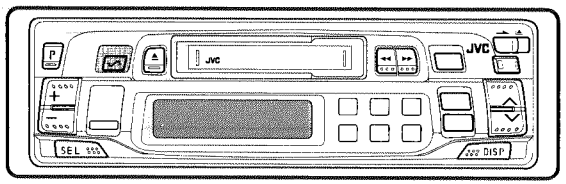
- **Cuando se lo utiliza en un sistema de 4 altavoces**
  Utilice este control para equilibrar los niveles de volumen de los altavoces delanteros y traseros.
- **Cuando se lo utiliza en un sistema de 2 altavoces**
  Coloque este control en la posición central (indicación "0").

Control de sonoridad

Con volúmenes bajos el oído humano es menos sensible a las frecuencias bajas y altas. Cuando el volumen es bajo, coloque el control de sonoridad en ON para incrementar estas frecuencias y producir un sonido bien equilibrado.

Selección de características de sonido adecuadas al género musical

Memoria de control de sonido (ajustada en fábrica)



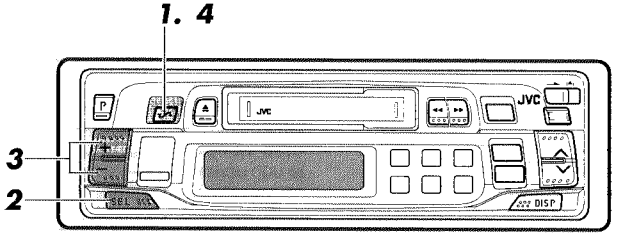
Modo de sonido (SOUND)			Valor preajustado de nivel		
			Graves	Agudos	Sonoridad
OFF	Desactivada	(características planas)	0	0	Activada
bEA7	Ritmo	Para música con ritmo pesado tal como rock o música de discoteca.	2	0	Activada
SOF7	Suave	Para música suave de fondo.	1	−3	Desactivada
POP	Pop	Para música leve incluyendo música popular y vocal.	4	1	Desactivada

ESPAÑOL

Cambio del ajuste de sonido como sea necesario

Memoria De Control De Sonido (ajuste del usuario)

Los valores de preajuste del modo de sonido pueden ser cambiados de acuerdo a su gusto. (Ejemplo: Para enfatizar los sonidos graves con los modos de compás desde el nivel 2 al 5.)



1 SOUND ⇨ bEA7 Presione el botón SOUND para seleccionar el modo al que desea cambiar (ritmo, suave, pop).

2 SEL ⇨ bAS Presione el botón SEL dentro de los 5 segundos para seleccionar la características de sonido que desea cambiar (grave, agudo, sonoridad).

3 + − 2 ⇨ 5 Ajuste el nivel deseado con el botón de control de nivel (dentro de 5 segundos.)

4 SOUND ⇨ bEA7 Para almacenar el nivel establecido en memoria presione el botón SOUND dentro de los 5 segundos y manténgalo presionado durante más de 2 segundos. (El modo de indicación parpadea cuando el nivel ha sido almacenado en memoria).

* Repita el procedimiento de arriba para cambiar otros valores preajustados.

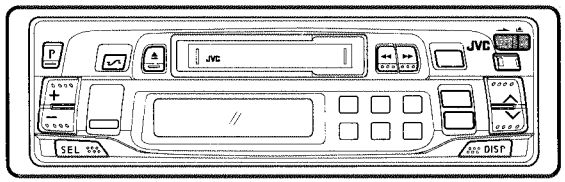
* Para restaurar el valor preajustado repita el procedimiento de arriba utilizando como referencia el valor de nivel de la memoria de control de sonido (ajustada en fábrica).

ESPAÑOL

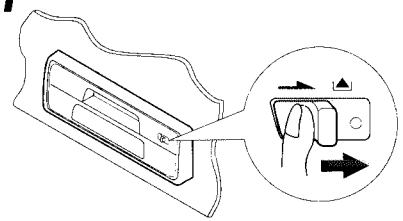
Cuando sale del automóvil

Para Extraer El Panel De Control

Antes de extraer el panel de control, asegúrese de desconectar la alimentación.

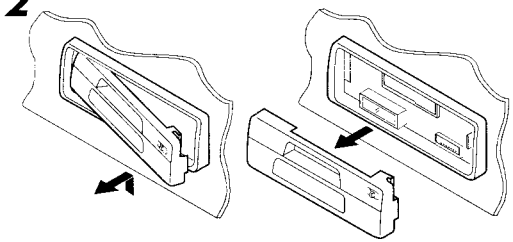


1



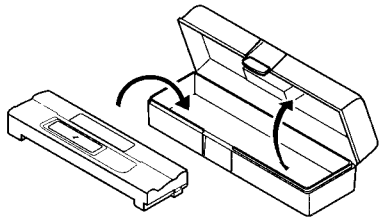
Deslice el interruptor (⏏) de liberación del panel de control en la dirección de la flecha para extraer el panel de control.

2



Levante y tire el panel de control de la unidad principal como se muestra.

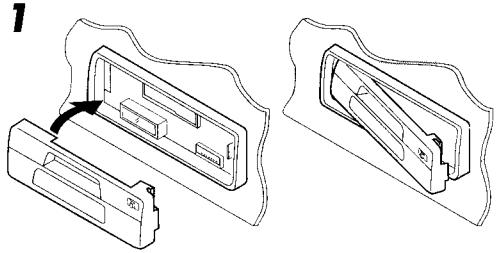
3



Coloque el panel de control en la caja suministrada para protección.

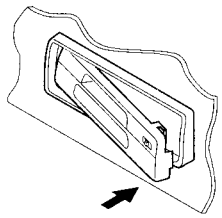
Para colocar el panel de control

1



Inserte el lado izquierdo del panel de control dentro de la ranura del lado izquierdo del soporte.

2



Presione el lado derecho para colocarlo correctamente.

Limpieza del conector

Si extrae frecuentemente el panel de control, puede producirse una falsa conexión con el soporte del mismo. Para reducir esta posibilidad al mínimo, límpielo periódicamente con un hisopo, o paño humedecido en alcohol, tomando precauciones para no dañar los terminales del conector.

Nota:

- *Tome precauciones para no dañar los terminales conectores cuando coloca/extrae el panel de control o mientras el mismo está extraído.*

Empleo de otro equipo

OPERACION DEL CAMBIADOR DE CD

(KS-RT220 exclusivamente)

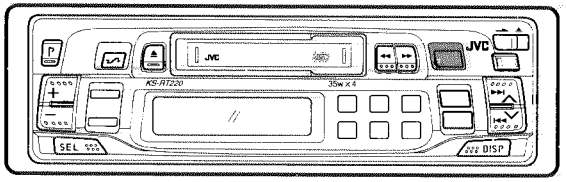
PRECAUCIONES

- Esta unidad sirve para controlar el cambiador automático de CD de JVC (a ser adquirido separadamente).
- Para la correcta utilización, refiérase a las instrucciones del cambiador automático de CD.
- Cuando no haya discos en el magazin del cambiador de CD o los discos estén colocados al revés, "----" aparecerá en el indicador. Si esto ocurre, extraiga el magazin y coloque los discos correctamente.
- Cuando aparece "R-1—R-8" en el display de la unidad, verifique que el cordón esté conectado y presione el botón RESET del cambiador de CD.

ESPAÑOL

Reproducción de todas las pistas

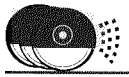
Reproduccion De Discos Compactos



Seleccione la función de CD.

Numero de disco Numero de pista

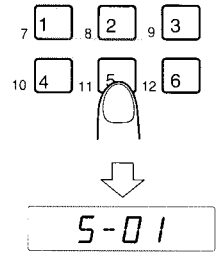
- Cuando todas las músicas del primer disco han sido reproducidas, se inicia automáticamente la reproducción del segundo disco desde la primera música.



Selección de un disco

Seleccion De Disco

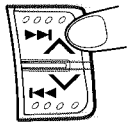
Ejemplo: (para especificar el disco 5)



- **Selección directa de disco**
  Presione el botón de número de disco que corresponde al disco deseado (presiónelo rápido para seleccionar del No. 1 al No. 6 o durante más de 1 segundo para seleccionar del No. 7 al No. 12). Se encenderá el número de disco y el de pista y se iniciará la reproducción del CD.

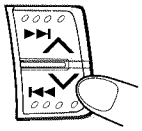
Salto al principio de una pista

Reproduccion Con Salto



- Durante la reproducción usted puede saltar fácilmente al comienzo de la pista anterior, actual o de la próxima y la reproducción recomenzará desde ese punto.

Para escuchar la próxima pista...
Presione una vez el botón (►►I) para saltar al comienzo de la próxima pista.

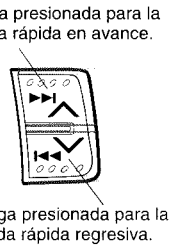


Para escuchar la pista anterior...
Presione una vez el botón (I◄◄) para saltar al comienzo de la pista actual, y luego otra vez para saltar a la pista anterior.

* Cuando se ejecutan las operaciones de selección de disco y salto en secuencia, es posible seleccionar la pista deseada del disco indicado.

Ubicación de la posición deseada en el disco

Reproduccion Con Busqueda



- La posición deseada puede ser localizada utilizando la búsqueda rápida hacia adelante o hacia atrás durante la reproducción.
- Mantenga presionado el botón para iniciar la búsqueda. (La velocidad de la misma aumenta cuanto más tiempo se mantenga presionado el botón).
- Se escuchará un sonido de bajo volumen (aprox. un cuarto del de reproducción), monitoree el sonido y libere el botón cuando localice la posición deseada.

Reproducción aleatoria de pistas

Reproduccion Aleatoria

Cada vez que presione el botón RND, el modo cambia de aleatorio 1 (se enciende el indicador RND), a aleatorio 2 (el indicador RND parpadea), a borrado.
Aleatorio 1:
Reproduce una vez aleatoriamente todas las pistas del disco actual, luego las de los discos siguientes en orden.

Aleatorio 2:
Selecciona aleatoriamente y reproduce las pistas de todos los CD colocados en el magazin.

ESPAÑOL

LOCALIZACION DE AVERIAS

Lo que parece ser un problema puede no ser grave. Primero asegúrese ....

Símptomas	Causas	Remedios
* **La cinta no puede ser colocada.**	—	Presione el botón ▲ e inserte otra vez.
	El cassette está incorrectamente colocado.	Inserte el cassette con la cinta expuesta apuntando hacia arriba.
* **El cassette de cinta se calienta.**	Esto no es una falla.	—
* **El sonido es muy bajo y la calidad del mismo está degradada.**	La cabeza de cinta está sucia.	Límpiela regularmente con un de cabezas.
* **El sonido se interrumpe algunas veces.**	El cordón está incorrectamente conectado.	Confirme las conexiones del cordón.
* **No se escucha sonido proveniente de los altavoces.**	El control de volumen está en el nivel mínimo.	Ajústelo al nivel óptimo.
	El cordón está incorrectamente conectado.	Confirme las conexiones del cordón.
* **La sintonización automática no funciona.**	La señal de radiodifusión es débil.	Sintonice las radiodifusoras manualmente.
* **El número de pista no aparece indicado.**	La indicación está en el modo de reloj.	Presione el botón DISP otra vez.
* **"----" está indicado.**	Los CD no están colocados en el magazin. Los CD están incorrectamente insertados.	Inserte los CD en el magazin. Asegúrese de que estén correctamente insertados.
* **R-8 está indicado.**	Esta unidad no está conectada correctamente a un cambiador de CD.	Conecte esta unidad correctamente y presione el botón de reposición del cambiador de CD.
* **Aparece indicado "R-1—R-7".**	—	Presione el botón de reposición del cambiador de CD.

ESPECIFICACIONES

SECCION DEL AMPLIFICADOR DE AUDIO
Máxima potencia de salida: (Frontal) 35 W por canal (Trasera) 35 W por canal
Potencia de salida contínua (RMS): (Frontal) 15 W por canal dentro de 4 Ω, 40 a 20.000 Hz con distorción armónica no mayor de 0,8%.
(Trasero) 15 W por canal dentro de 4 Ω, 40 a 20.000 Hz con distorción armónica no mayor de 0,8%.
Impedancia de carga: 4 Ω (tolerancia de 4 a 8 Ω)
Límites de control de tono
Graves: ±10 dB a 100 Hz
Agudos: ±10 dB a 10 kHz
Respuesta de frecuencia: 40 a 20.000 Hz
Relación señal - ruido: 70 dB
Nivel de salida de línea/impedancia: carga de 1,0 V/20 kΩ (250 nWb/m)

SECCION DE RADIO
Límites de frecuencia
FM: 87,5 a 107,9 MHz
(con intervalos entre canales de 200 kHz)
87,5 a 108,0 MHz
(con intervalos entre canales de 50 kHz)
AM: 530 a 1.710 kHz
(con intervalos entre canales de 10 kHz)
531 a 1.602 kHz
(con intervalos entre canales de 9 kHz)
[Sintonizador de FM]
Sensibilidad utilizable: 12,1 dBf (1,1 μV/75 Ω)
Umbral de sensibilidad de 50 dB: 16,3 dBf (1,8 μV/75 Ω)
Selectividad de canal alternado: (400 kHz): 65 dB
Respuesta de frecuencia: 40 a 15.000 Hz
Separación estereofónica: 35 dB
Relación de captación: 2,0 dB
[Sintonizador de AM]
Sensibilidad: 20 μV
Selectividad: 35 dB

SECCION DE LA PLATINA DE CASSETTE
Fluctuación y trémolo: 0,15% (WRMS)
Tiempo de bobinado rápido: 190 seg. (C-60)
Respuesta de frecuencia: 50 a 14.000 Hz (±3 dB)
Relación señal - ruido: 52 dB
Separación estereofónica: 40 dB

GENERALIDADES
Requisitos de potencia
Voltaje de funcionamiento: 14,4 voltios CC (margen de 11 a 16 voltios)
Sistema de puesta a tierra: Masa negativa
Dimensiones (A x Alt. x P.)
Tamaño de instalación: 182 x 52 x 152 mm
Tamaño del panel: 189 x 58 x 14 mm.
Peso bruto: 1,9 kg

El diseño y las especificaciones están sujetos a cambio sin aviso.

Si fuera necesario un juego de instalación para su automóvil, consulte la guía telefónica para ubicar la tienda espe-cialista en audio para automóviles más cercana.

ESPAÑOL

Nous vous remercions pour l'achat d'un appareil JVC. Veuillez lire avec soin toutes les instructions avant de faire fonctionner l'appareil, pour être sûr d'avoir bien tout compris et pour obtenir une durée d'utilisation plus longue de l'appareil.

SOMMAIRE (Pour KS-RT220/RT120)

Utilisation de l'autre matériel

FRANÇAIS

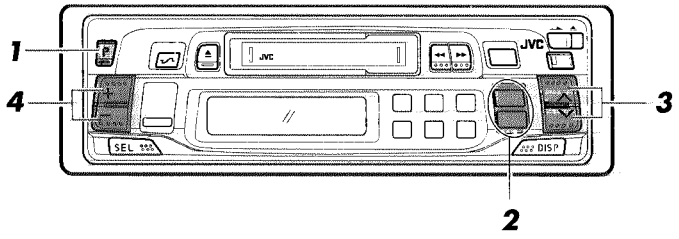
AVANT UTILISATION

* **Pour la sécurité....**
Ne pas relever le niveau de volume trop fort, ce qui pourrait empêcher d'entendre les sons extérieurs, rendant la conduite dangereuse.
Arrêtez la voiture avant d'effectuer des opérations compliquées.

* **Température à l'intérieur de la voiture....**
Si la voiture a stationné longtemps par temps chaud ou froid, veuillez attendre que la température dans la voiture devienne normale avant de faire fonctionner l'appareil.

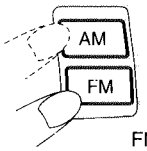
FONCTIONNEMENT DE LA RADIO

Ecoute de la radio



1 

Mettre en marche.

2 

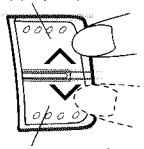
AM

FM 1 → FM 2 → FM 3

Sélectionner la gamme.

FM1, FM2 et FM3 ont la même bande de fréquence et jusqu'à 6 stations peuvent être préréglées dans chaque gamme.

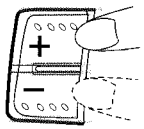
3 Appuyer pour la recherche ascendante.



Appuyer pour la recherche descendante.

Syntoniser.

Utiliser la syntonisation manuelle ou par recherche pour trouver une station. (Voir page 50)

4 

Régler le volume.

Remarques:
Power (P)/Atténuateur (ATT)
Power (P): Appuyer pour mettre l'alimentation sur marche. Appuyer pendant plus d'une seconde pour couper l'alimentation.

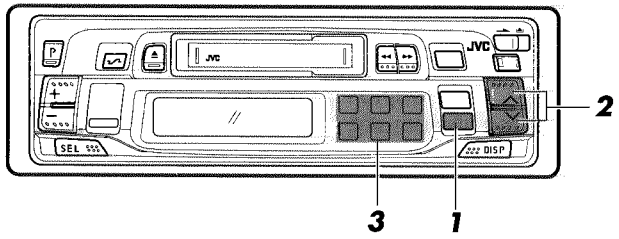
ATT: Lorsque cette touche est pressée pendant le fonctionnement, le volume descend et l'indicateur ATT clignote. Appuyer à nouveau pour revenir au volume original.

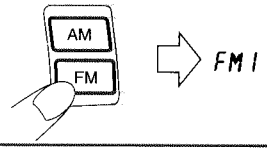
Mise en mémoire des stations désirées

Préréglage manuel de station

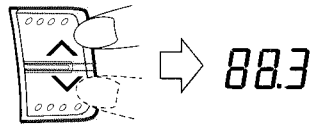
Vous pouvez prérégler jusqu'à 6 stations dans chaque (FM1, FM2, FM3 et AM) gamme comme suit.

- Exemple (pour prérégler la touche de stations préréglées "1" de la gamme FM1 sur une station FM à 88.3 MHz)

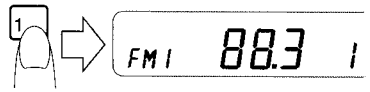


1 

Sélectionner la gamme FM1 en utilisant la touche de gamme FM.

2 

Utiliser la syntonisation manuelle ou par recherche pour trouver une station que vous voulez mettre en mémoire. (Voir page 50)

3 

Appuyer sur la touche de stations préréglées "1" pendant plus de 2 secondes. (Quand "1" clignote dans l'affichage de stations préréglées, la station est préréglée.)

- Refaire la procédure ci-dessus pour les 5 autres touches de stations préréglées et pour les autres gammes (FM2, FM3 et AM).

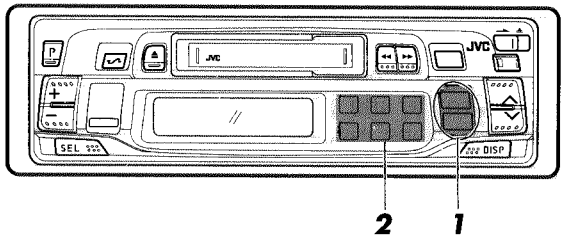
Remarques:

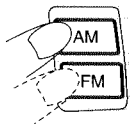
- *Une station préréglée précédente est effacée quand une nouvelle station est mise en mémoire.*
- *Les stations préréglées sont effacées quand l'alimentation du circuit de mémoire est interrompue pendant le remplacement de la batterie, etc. Dans ce cas, prérégler à nouveau les stations.*

FRANÇAIS

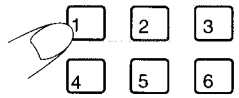
Réception des stations préréglées

Syntonisation des préréglages



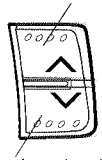
1 

Sélectionner la gamme.

2 

Appuyer sur les touches de stations préréglées requises (No.1 à No.6).

Appuyer pour la recherche ascendante



Appuyer pour la recherche descendante

Syntonisation manuelle

Pour passer en mode manuel, presser et maintenir la touche de syntonisation (⩓ ou ⩔). L'indicateur MANU clignote. Appuyer sur la touche de syntonisation pour syntoniser à la fréquence désirée.

Les pas de balayage des fréquences sont comme suit:
FM — par pas de 200 kHz/50 kHz
AM — par pas de 10 kHz/9 kHz

- Environ 5 secondes après la fin de la syntonisation manuelle, l'appareil revient en mode de recherche et l'indicateur MANU s'éteint.

Syntonisation par recherche

Appuyer sur la touche ⩓ ou ⩔; l'appareil passe en mode de recherche et s'accorde sur une fréquence plus élevée ou plus basse. Quand une émission est reçue, il arrête automatiquement la recherche et l'émission peut être entendue.

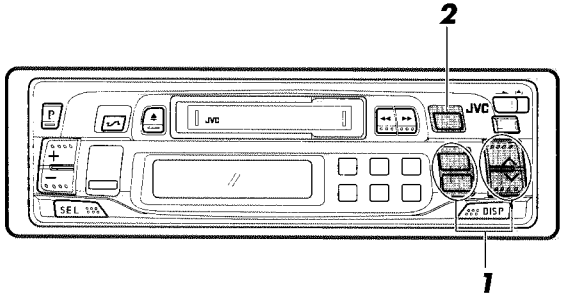
Syntonisation par balayage

Lorsque la touche Scan est pressée, le balayage automatique commence vers des fréquences plus élevéees. Chaque fois qu'une émission est reçue, la fréquence affichée clignote et elle est contrôlée pendant 5 secondes environ. Si vous voulez écouter l'émission accordée, appuyer de nouveau sur la touche Scan pour arrêter le balayage automatique.

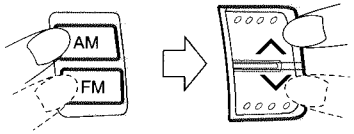
Mise en mémoire d'une station désirée

Syntonisation de la station préréglée éxtra (KS-RT120 uniquement)

Lorsque la station extra (telle une station d'informations routières, etc.) est préréglée, elle peut être rappelée par une opération en une touche même si vous écoutez une autre station.

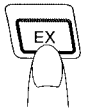


1



Syntoniser sur la station voulue.

2

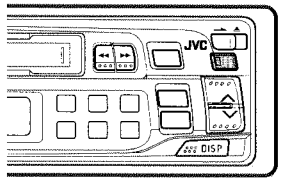


Appuyer sur la touche EX pendant 2 secondes ou plus. ("0" clignote sur l'affichage de préréglage, montrant que la station a été préréglée.)

- Si la touche EX est pressée alors que vous écoutez une émission FM ou AM, la station extra est sélectionnée pour être syntonisée. Appuyer à nouveau sur la touche fait revenir sur l'émission entendue précédemment.

FRANÇAIS

Lorsqu'une émission stéréo FM est bruitée



Touche Mono

Régler sur MONO quand une émission FM stéréo contient trop de bruit et ne peut être bien écoutée.

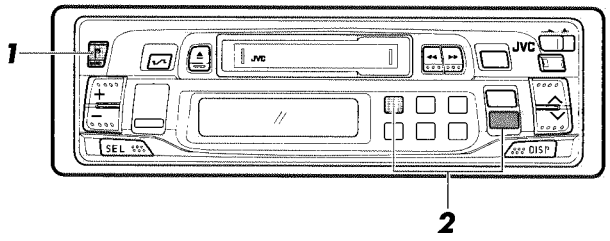
Parasites d'antenne

Si vous entendez des bruits statiques quand vous écoutez une émission AM ou FM, vérifier si les raccordements de l'antenne ne sont pas défectueux.

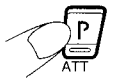
Utilisation de cet appareil dans une région autre que l'Amérique du Nord ou du Sud

Pour changer l'intervalle entre les canaux

A la livraison de cet appareil, l'intervalle entre les canaux est réglé sur 10 kHz pour AM et 200 kHz pour FM. Si l'appareil est utilisé dans une autre région que l'Amérique du Nord ou du Sud, régler comme suit:

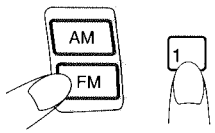


1



Mettre sous tension.

2



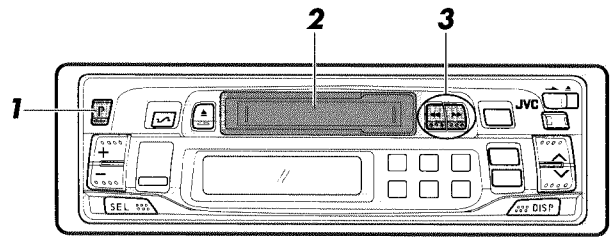
Tout en pressant sur la touche de gamme FM, appuyer sur la touche de stations préréglées 1 pendant plus de 3 secondes.

Effectuer cette procédure règle l'intervalle entre les canaux sur 9 kHz en AM et sur 50 kHz (mode manuel), 100 kHz (mode de recherche) en FM.

Pour revenir au réglage initial, refaire l'opération ci-dessus.

FONCTIONNEMENT DE LA BANDE

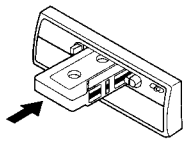
Ecoute d'une bande



1

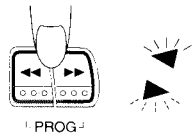
Mettre en marche.

2



Introduire une cassette.

3



Sélectionner un programme (Sens de défilement de la bande).
(Appuyer sur les deux touches.)

Notes:

- *Ne pas toucher à la tête de lecture polie avec un objet métallique ou magnétique.*
- *Ne jamais utiliser des bandes sales ou poussiéreuses car le son et les performances de votre appareil en seraient grandement dégradés. Il faut donc toujours conserver vos bandes propres.*

FRANÇAIS

Défilement rapide de bandes

Pour faire défiler rapidement des bandes, appuyer sur la touche ◄◄ ou ►►. La bande sera enroulée dans le sens de la flèche (◄◄ ou ►►). Pour reprendre la lecture, appuyer **légèrement** sur la touche ◄◄ ou ►► rapide.

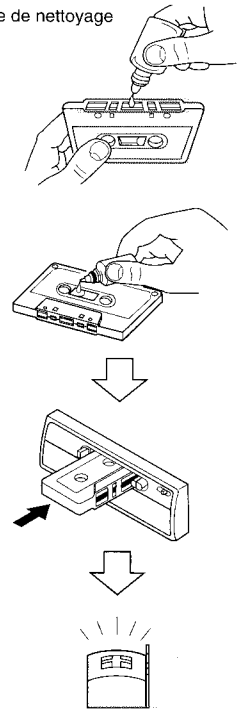
Mécanisme d'inversion automatique

Lorsque la bande arrive à sa fin, ce mécanisme commute automatiquement la lecture sur l'autre face. Pour écouter l'autre face de la bande pendant la lecture, appuyer sur la touche PROG (◄◄/►►). Le changement de sens de défilement peut être vérifié avec l'indicateur de sens de défilement de la bande.

Pour l'usage aussi long que possible

Nettoyage de la tete

• Cassette de nettoyage de têtes



Les têtes sont importantes, elles captent le son.
Quand elles deviennent sales, les symptômes suivants deviennent perceptibles:

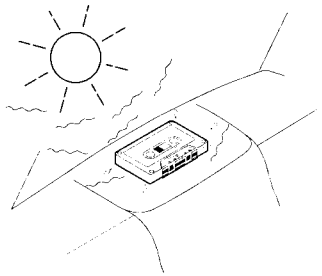
- La qualité du son est réduite.
- Le niveau sonore diminue.
- Le son peut être entendu de façon intermittente. (Des coupures de son se produisent.)

Ce ne sont PAS des mauvais fonctionnements. Toutefois, avant que ces symptômes apparaissent, nettoyer les têtes toutes les 10 heures d'utilisation en utilisant une cassette de nettoyage de têtes de type humide, disponible dans un magasin de produits audio. Pour plus de détails, se reporter aux instructions de la cassette de nettoyage de têtes.

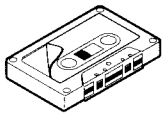
(No.49405) 29

KS – RT220 J/E/G

Conseils pour l'entretien des bandes



Incorrect



Il est très important de conserver vos bandes propres.
Toujours les remettre dans leurs boîtes après la lecture.
Ne jamais ranger vos bandes en plein soleil, dans un endroit très humide ou extrêmement chaud.
Ne jamais lire des bandes sales ou poussiéreuses ou des bandes avec les étiquettes se détachant — elles pourraient endommager la tête.
Une bande détendue dans une cassette peut causer des problèmes en se prenant dans le mécanisme.

- Toujours retirer les cassettes de la fente de chargement en dehors de l'écoute, car la bande risque de se détendre.

Remarque:
Votre appareil a besoin de très peu de soin, mais vous serez assuré des meilleures performances que si vous suivez les remarques ci-dessus.

FRANÇAIS

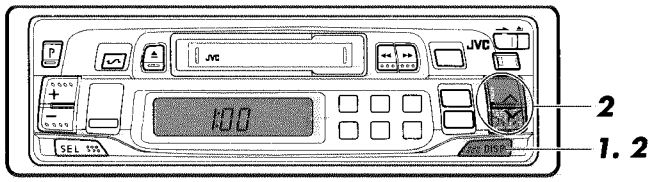
RÉGLAGE DE L'HORLOGE

Sélectionner l'affichage de l'horloge

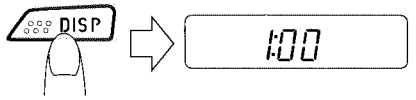
Chaque fois que la touche DISP est pressée, l'affichage est commuté entre le mode d'écoute et lmode d'horloge.

Réglage de l'horloge

S'assurer que l'affichage est en mode d'horloge, puis, tout en appuyant sur la touche DISP, appuyer sur la touche de réglage des heures (⩒) pour régler les "heures", et appuyer sur la touche des minutes (⩓) pour régler les "minutes".

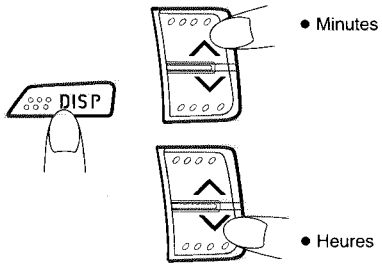


1



Sélectionner le mode d'horloge.

2



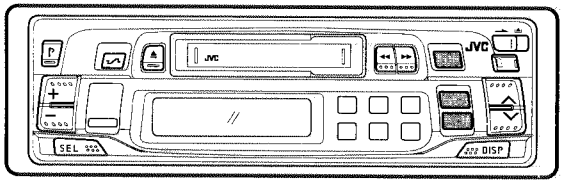
Tout en appuyant sur la touche DISP, appuyer sur la touche de réglage des heures ou des minutes.

AUTRES FONCTIONS

Sélection de la source désirée avec l'alimentation coupée

Fonctionnement en une touche

Même si l'alimentation est coupée, une pression sur la touche montrée ci-dessous met l'alimentation en marche et sélectionne la source.



(KS-RT220)	Mode fonction	Opérations
CD-CH	**CD**	Placer un CD dans le changeur CD raccordé à cet appareil et appuyer sur cette touche pour lancer la lecture CD.
AM / FM	**TUNER**	Lorsque'une touche est pressée, le syntoniseur est engagé.

(KS-RT120)	Mode fonction	Opérations
EX / AM / FM	**TUNER**	Losque l'une des trois touches est pressée, le syntoniseur est engagé.

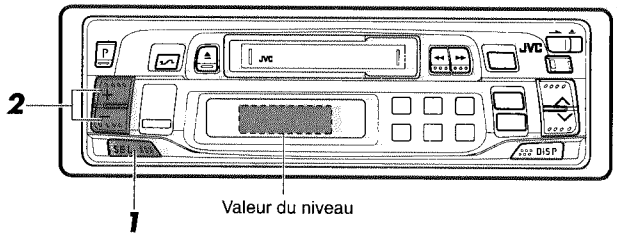
Remarques:

Lorsque la touche ci-dessus est pressée avec une cassette introduite e limentation coupée, la lecture de la bande commence.

FRANÇAIS

Ajustement des caractéristiques sonores

Commande de niveau audio



1. Sélectionner le mode de commande avec la touche SEL.
2. Ajuster le niveau avec les touches de commande de niveau.

Mode de commande électronique	**1** SEL Sélectionner.	**2** Régler.		
VOL	Volume	Diminue	(00 – 50)	Relève
bAS	Graves	Diminue	(–6) – (6)	Relève
TRE	Aigus	Diminue	(–6) – (6)	Relève
FAd	Equilibrage	Arrière	(R5 – F5)	Avant
bAL	Balance	Gauche	(L6 – R6)	Droite
LOUd	Contour	Arrêt		Marche

Commande d'équilibrage

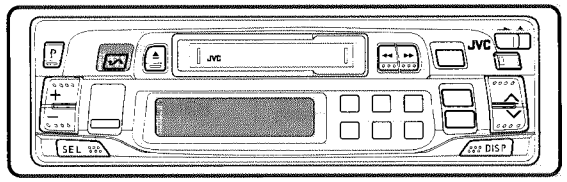
- **Pour un système à 4 haut-parleurs**
  Utiliser cette commande pour équilibrer les niveaux de volume des haut-parleurs avant et arrières.
- **Pour un système à 2 haut-parleurs**
  Régler cette commande sur la position centrale ("0" est affiché).

Commande de contour

A bas volume, l'oreille humaine est moins sensible aux hautes et basses fréquences. Lorsque le volume est faible, régler la commande de contour sur ON pour relever ces fréquences et produire un son bien équilibré.

Sélection des caractéristiques sonores convenant au genre de musique

Mémoire de commande de son (préréglage en usine)

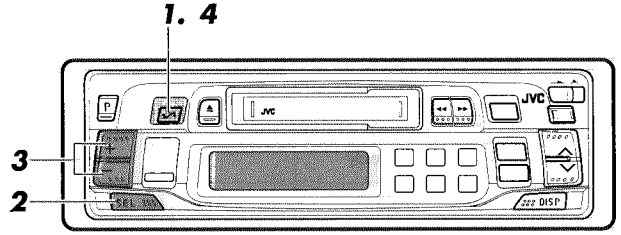


Mode de son		Valeur de niveau préréglée		
		Graves	Aigus	Contour
OFF Arrêt	(caractéristiques plates)	0	0	Marche
bEA7 Rythme	Pour de la musique avec beaucoup de rythme, telle la musique rock ou disco.	2	0	Marche
SOF7 Léger	Pour de la musique de fond douce.	1	–3	Arrêt
POP Pop	Pour de la musique légère comprenant la musique populaire et vocale.	4	1	Arrêt

Changement de réglage de son comme requis

Mémoire de commande de son (préréglage de l'utilisateur)

Les valeurs préréglées du mode de son peuvent être changées pour correspondre à vos goûts.
(Example: Pour relever le son grave avec le niveau de mode de rythme de 2 à 5.)



1 SOUND → bEA7
Appuyer sur la touche SOUND pour sélectionner le mode à changer (Rythme, Léger, Pop).

2 SEL → bAS
Appuyer sur la touche SEL dans les 5 secondes pour sélectionner les caractéristiques du son à changer (Graves, Aigus, Contour).

3 2 → 5
Régler le niveau voulu avec la touche de commande de niveau (dans les 5 secondes).

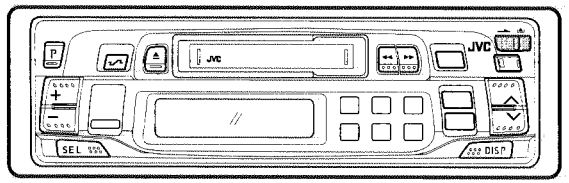
4 SOUND → -bEA7-
Pour mettre en mémoire le niveau réglé, appuyer sur la touche SOUND dans les 5 secondes et la maintenir pendant plus de 2 secondes. (L'indication de mode clignote quand le niveau a été mis en mémoire.)

* Pour changer d'autres valeurs préréglées, répéter la procédure ci-dessus.
* Pour reprendre les valeurs préréglées, répéter la procédure ci-dessus en utilisant la valeur du niveau pour la Mémoire de commande de son(préréglage en usine) comme référence.

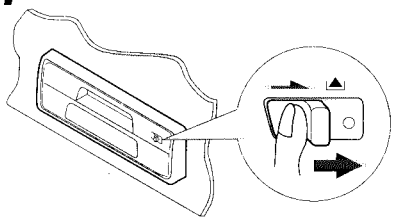
En laissant la voiture

Pour detacher le panneau de commande

Avant de détacher le panneau de commande, bien s'assurer de couper l'alimentation.

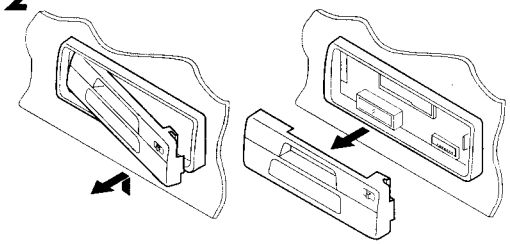


1



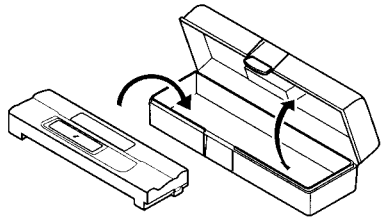
Faire coulisser le verrou du panneau de commande (⏏) dans le sens de la flèche pour détacher le panneau de commande.

2



Lever et tirer le panneau de commande de l'appareil, comme montré ci-dessous.

3



Placer le panneau de commande dans l'étui fourni pour le protéger.

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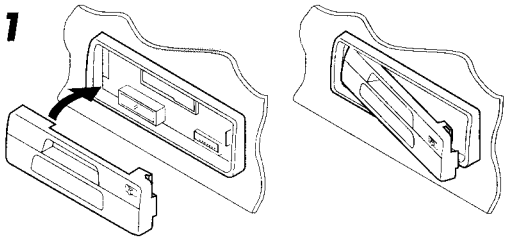
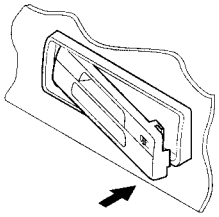
Pour fixer le panneau de commande

1



Introduire le côté gauche du panneau de commande dans la rainure sur le côté gauche du support.

2



Appuyer sur le côté droit pour le placer correctement.

Nettoyage du connecteur

Si le panneau de commande est fréquemment détaché, un raccordement médiocre peut se produire avec le support de panneau de commande. Pour réduire ce risque, essuyer périodiquement avec un Coton-tige ou un tissu imbibé d'alcool, en faisant attention de ne pas endommager les bornes du connecteurs.

Remarque:

- *Faire attention de ne pas endommager les bornes du connecteur en fixant/ détachant le panneau de commande ou alors que le panneau de commande est retiré.*

Utilisation de l'autre matériel

FONCTIONNEMENT DU CHANGEUR CD (KS-RT220 uniquement)

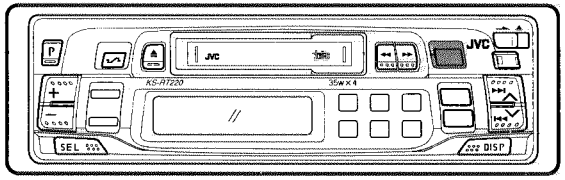
PRECAUTIONS

- Cet appareil est pour la commande d'un changeur automatique de disques audionumériques JVC (à acheter séparément).
- Pour une utilisation correcte, se reporter aux instructions du changeur automatique.
- Quand il n'y a pas de disque dans le magasin du changeur CD ou si les disques sont introduits sens dessus dessous, "----" apparaît dans l'affichage. Dans ce cas, retirer le magasin et placer correctement les disques.
- Lorsque "R-1—R-8" est montré dans l'affichage de l'appareil, vérifier que le cordon est raccordé et appuyer sur la touche RESET du changeur CD.

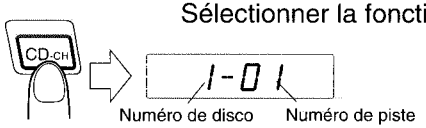
FRANÇAIS

Lire toutes les pistes

Lecture de disques audionumeriques



Sélectionner la fonction CD.



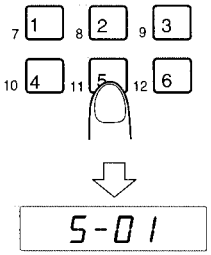
Numéro de disco Numéro de piste

- Lorsque tous les morceaux sur le premier disque ont été lus, le second disque commence automatiquement à partir du premier morceau.

Sélectionner un disque

Sélection de disque

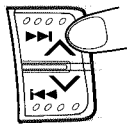
Exemple: (Pour désigner le disque 5)



- **Sélection directe de disque**
  Appuyer sur la touche de numéro de disque correspondant au disque voulu
  (la presser rapidement pour sélectionner No.1 à No.6 ou pendant plus d'une seconde pour sélectionner No. 7 à No. 12). Le numéro de disque et le numéro de piste s'allument et la lecture CD commence.

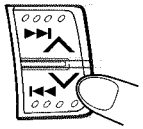
Sauter au début d'une piste

Saut de lecture



- Pendant la lecture, vous pouvez facilement sauter au début de la piste précédente, courante ou suivante, et la lecture commencera alors à partir de ce point.

Pour écouter le morceau suivant...
Appuyer une fois sur la touche (►►I) pour passer au début de la piste suivante.



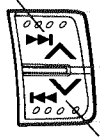
Pour écouter le morceau précédent...
Appuyer une fois sur la touche (I◄◄) pour passer au début du morceau courant, puis encore une fois pour passer au morceau précédent.

* La piste voulue d'un disque particulier peut être sélectionnée en effectuant les opérations de, sélection de disque et saut en séquence.

Localiser une position requise sur le disque

Recherche en lecture

Maintenir pressée pour la recherche accélérée avant.



Maintenir pressée pour la recherche accélérée arrière.

- La position voulue peut être localisée en utilisant la recherche accélérée avant ou arrière pendant la lecture.
- Maintenir pressée la touche pour commencer la recherche. (Plus longtemps la touche est pressée et plus la vitesse de recherche augmente.)
- Comme un faible niveau sonore peut être entendu (environ le quart du niveau de lecture), contrôler le son et relâcher la touche quand la position requise est localisée.

FRANÇAIS

Lire les pistes dans un ordre aléatoire

Lecture aleatoire

Chaque fois que la touche RND est pressée, le mode change de Aléatoire 1 (l'indicateur RND est allumé) à Aléatoire 2 (l'indicateur RND clignote) à annulation.
Aléatoire 1:
Lit une fois toutes les pistes sur le disque courante de façon aléatoire, puis sur chacun des disques suivants dans l'ordre.

Aléatoire 2:
Sélectionne et lit des pistes de façon aléatoire de tous les disques dans le magasin chargé.

EN CAS DE DIFFICULTES

Ce qui semble être une panne n'est pas toujours sérieux. Vérifier d'abord ...

Symptôme	Causes	Remèdes
* **La cassette ne peut pas être chargée**	—	Appuyer sur la touche ▲ et l'introduire de nouveau.
	Elle est chargée de la mauvaise façon.	Introduire la cassette avec la bande exposée sur la droite.
* **La cassette devient chaude.**	Ce n'est pas un mauvais fonctionnement.	—
* **Le son de la bande est à un niveau très faible.**	La tête de lecture est sale.	La nettoyer régulièrement avec une cassette de nettoyage de tête.
* **Le son est quelquefois interrompu.**	Le raccordement du cordon est incorrect.	Confirmer les raccordements du cordon.
* **Le son ne peut pas être entendu à partir des haut-parleurs.**	La commande de volume est tournée sur le niveau minimum.	L'ajuster au niveau optimal.
	Le raccordement du cordon est incorrect.	Confirmer les raccordements du cordon.
* **La syntonisation automatique ne fonctionne pas.**	La force du signal d'émission est trop faible.	Syntoniser manuellement les stations.
* **Le numéro de piste n'est pas affiché.**	L'affichage est en mode d'horlage.	Appuyer encore une fois sur la touche DISP.
* **"----" est affiché.**	Les CD ne sont pas placés dans le magasin. Les CD sont insérés de façon incorrecte.	Insérer des CD dans le magasin. S'assurer qu'ils sont correctement insérés.
* **"R-8" est affiché.**	Cet appareil n'est pas raccordé correctement au changeur CD.	Lui raccorder correctement cet appareil et appuyer sur la touche de remise à zéro.
* **"R-1—R-7 est affiché.**	—	Appuyer sur la touche de remise à zéro du changeur CD.

CARACTERISTIQUES TECHNIQUES

SECTION AMPLIFICATEUR AUDIO
Puissance de sortie maximale: (Avant) 35 W par canal
(Arrière) 35 W par canal
Puissance de sortie continue (RMS): (Avant) 15 W par canal sous 4 Ω, 40 à 20.000 Hz avec moins de 0,8% de distorsion harmonique totale.
(Arrière) 15 W par canal sous 4 Ω, 40 à 20.000 Hz avec moins de 0,8% de distorsion harmonique totale.
Impédance de charge: 4 Ω (4 à 8 Ω possible)
Gamme de commande de tonalité
Graves: ±10 dB à 100 Hz
Aigus: ±10 dB à 10 kHz
Réponse en fréquence: 40 à 20.000 Hz
Rapport signal/bruit: 70 dB
Niveau de sortie ligne/Impédance: 1,0 V/20 kΩ (250 nWb/m)

SECTION RADIO
Gamme des fréquences
FM: 87,5 à 107,9 MHz
(avec intervalle entre les canaux réglé sur 200 kHz)
87,5 à 108,0 MHz
(avec intervalle entre les canaux réglé sur 50 kHz)
AM: 530 à 1.710 kHz
(avec intervalle entre les canaux réglé sur 10 kHz)
531 à 1.602 kHz
(avec intervalle entre les canaux réglé sur 9 kHz)
[Syntoniseur FM]
Sensibilité utilisable: 12,1 dBf (1,1 µV/75 Ω)
Sensibilité de silencieux à 50 dB: 16,3 dBf (1,8 µV/75 Ω)
Sélectivité de canal voisin: (400 kHz): 65 dB
Réponse en fréquence: 40 à 15.000 Hz
Séparation stéréo: 35 dB
Rapport de capture: 2,0 dB
[Syntoniseur AM]
Sensibilité: 20 µV
Sélectivité: 35 dB

SECTION CASSETTE
Pleurage et scintillement: 0,15% (WRMS)
Durée de défilement rapide: 190 s (C-60)
Réponse en fréquence: 50 à 14.000 Hz (±3 dB)
Rapport signal/bruit: 52 dB
Séparation stéréo: 40 dB

GENERALES
Alimentation
Tension de fonctionnement: CC 14,4 volts (11 à 16 volts possible)
Système de mise à la masse: Masse négative
Dimensions (L x H x P)
Taille d'installation: 182 x 52 x 152 mm
Taille de panneau: 189 x 58 x 14 mm
Poids brut: 1,9 kg

Présentation et caractéristiques modifiables sans préavis.

Si un kit est nécessaire pour votre voiture, consulter votre annuaire téléphonique pour chercher le revendeur d'accessoires audio pour automobile le plus proche.

FRANCAIS

KS-RT220/RT120 CASSETTE RECEIVER

JVC
VICTOR COMPANY OF JAPAN, LIMITED

Printed in Singapore
FSUN3022-632S

3. Location of Main Parts

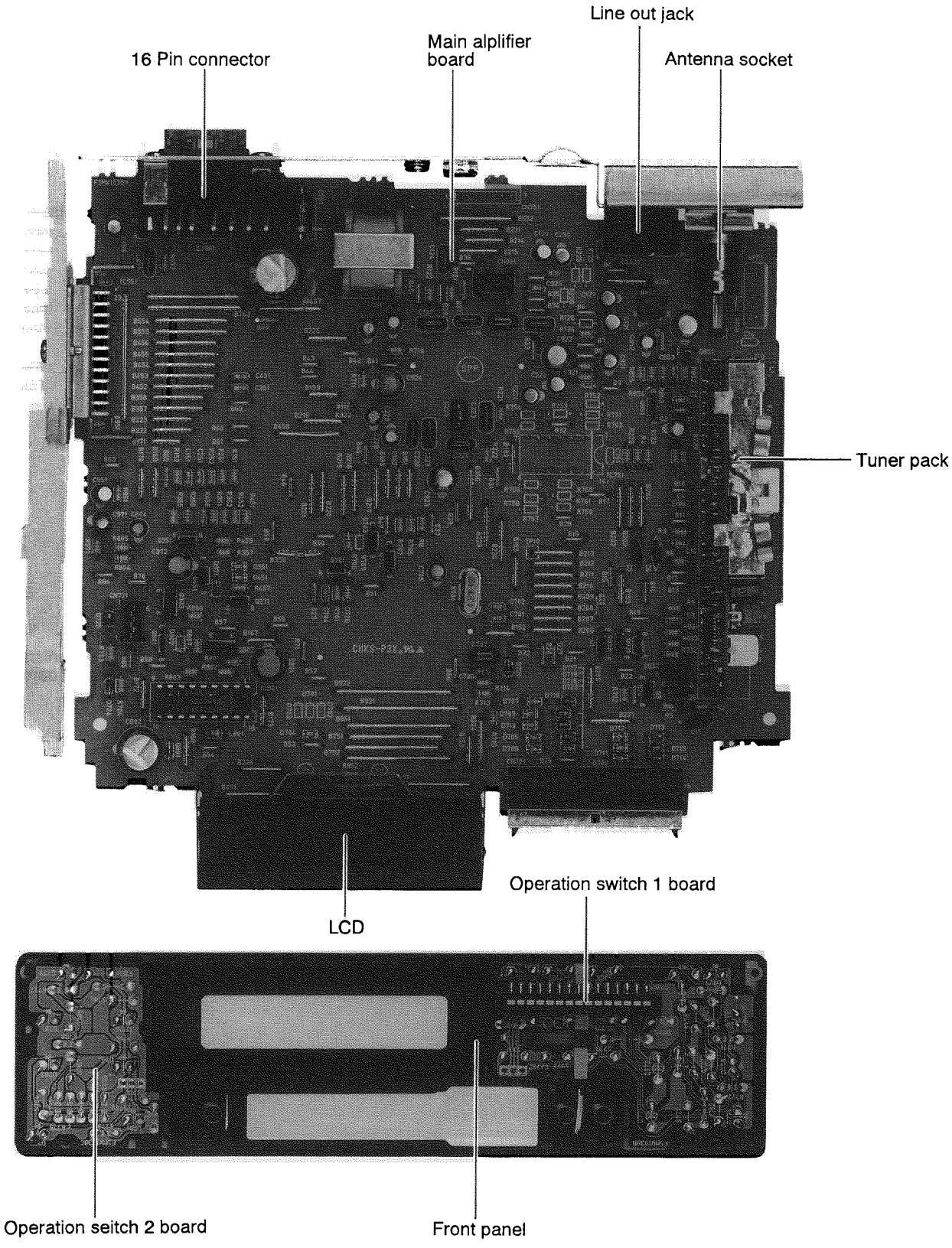


Fig. 3-1

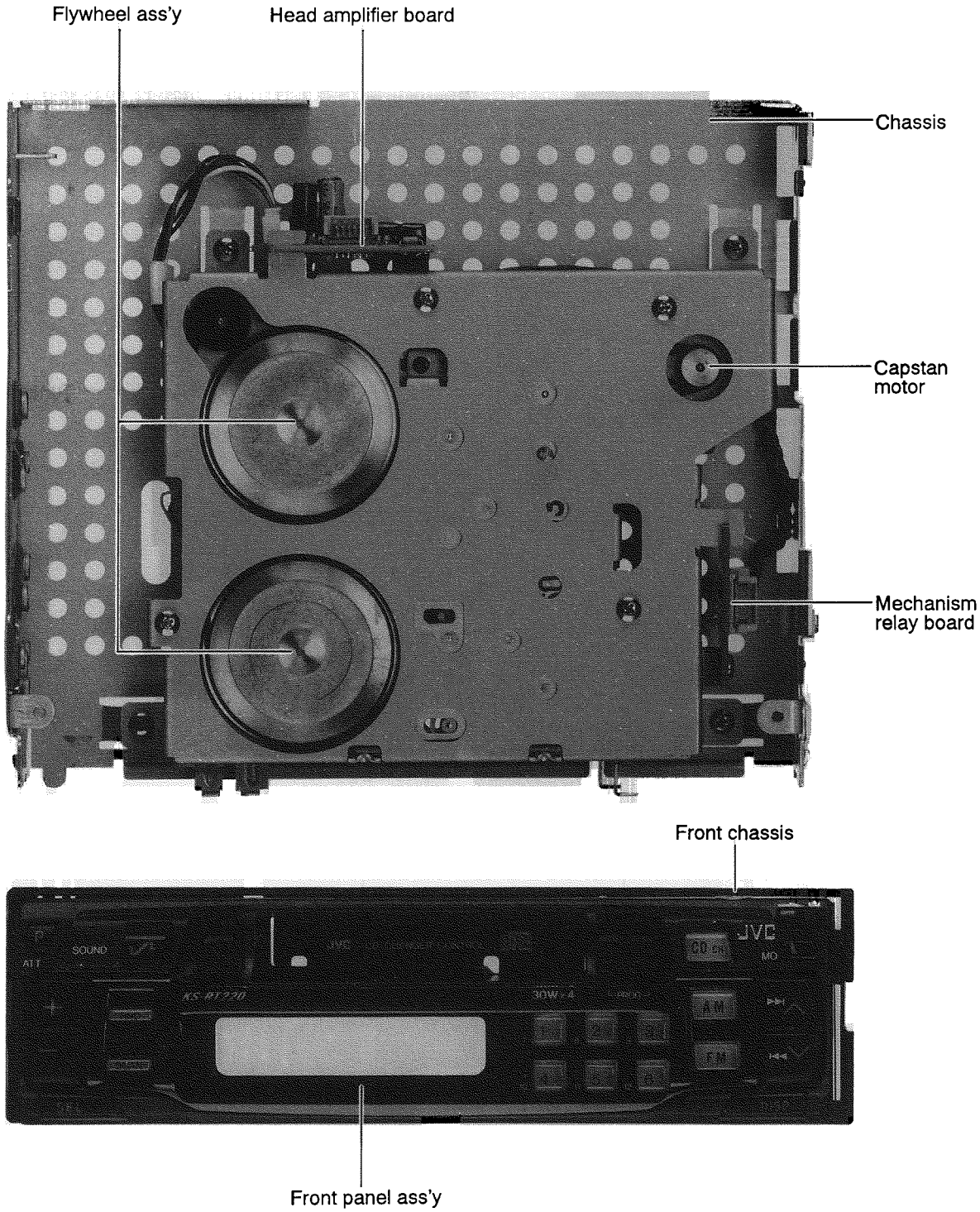

Flywheel ass'y
Head amplifier board
Chassis
Capstan motor
Mechanism relay board
Front chassis
Front panel ass'y

Fig. 3-2

4. Removal of Main Parts

‹Enclosure assembly Sections›

■ Detaching the front panel unit

(See Fig.4 – 1)

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

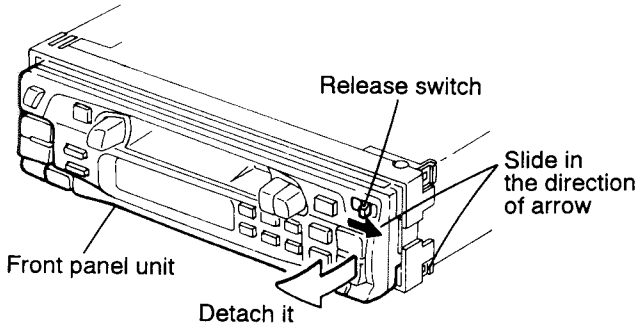


Fig. 4-1

■ Removing the front chassis

(See Fig. 4 – 2, 4 – 3)

1.Remove two ribs in the right side of unit .

2. Remove two ribs in the left side of unit and pull the front chassis forward to remove it.

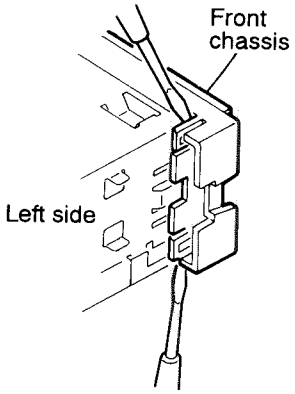


Fig. 4-2

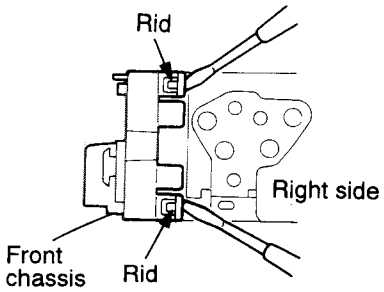


Fig. 4-3

■ Removing the heat sink (See Fig.4 – 4)

1. Turn the left side unit.
2. Remove three screws ① retaining the heat sink.

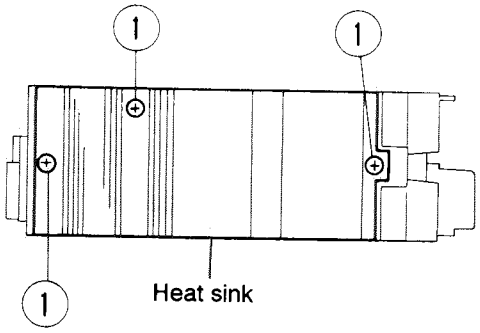


Fig. 4-4

■ Removing the bottom cover

(See Fig. 4 – 5)

Turn the unit upside down then insert and turn the screw driver to remove the bottom cover.

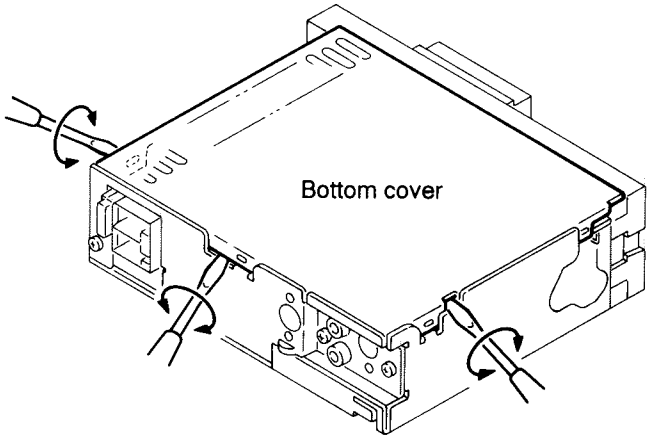


Fig. 4-5

■ Removing the main board

(See Fig.4 – 6, 4 – 7)

1. Remove two screws ② retaining the main board.
2. Turn the back side unit.
3. Remove two screws ③ retaining the rear bracket.
4. Lift up the main board to remove it, at this time remove the connectors CN901 and CN721 connecting the main board and cassette mechanism assembly.

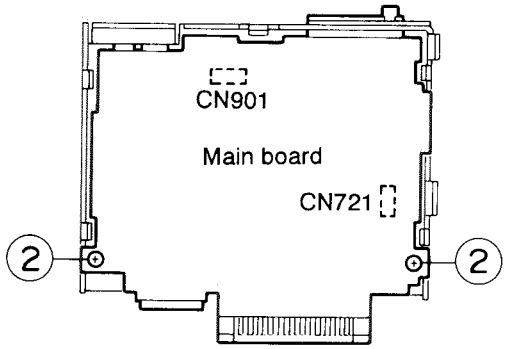


Fig. 4-6

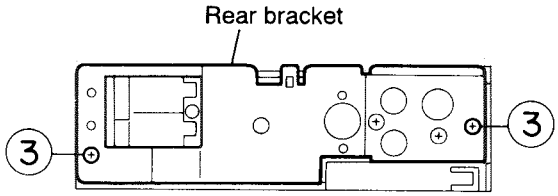


Fig. 4-7

■ Removing the Cassette mechanism assembly (See Fig. 4 – 8)

Remove four screws ④ retaining the Cassette mechanism assembly from the top chassis.

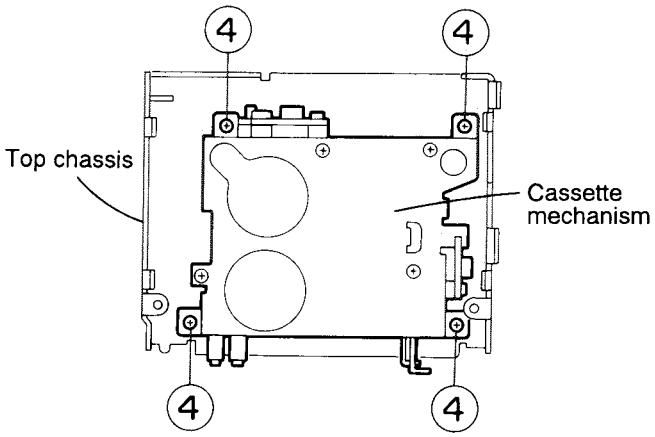


Fig. 4-8

■ Removing the operation switch board

(See Fig. 4 – 9, 4 – 10)

1. Turn the front panel unit upside down then.
2. Remove six screws ⑤ retaining the rear cover.
3. Take the operation switch 1and 2 board off on the front panel.

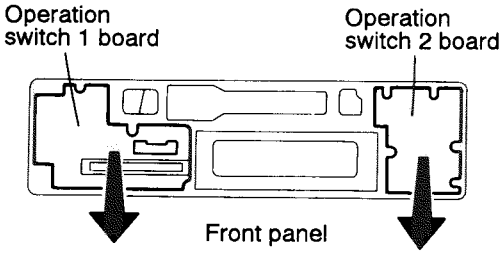


Fig. 4-10

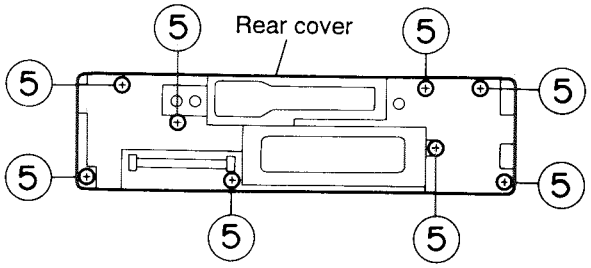


Fig. 4-9

■ Cass mechanism disassembling method

☆ Remove the cassette housing unit and button lever unit when you need to replace or adjust heads.

☆ The capstan belt (main belt) can be replaced directly.

☆ To change the sub - belt, remove the three screws and loosen one screw. Then raise the belt side of the reel base assembly slightly.

◆ Cassette housing unit.(See Fig. 4-11~4-14)

1. From the rear of the unit, bend the cassette hanger and chassis claws ⓐ, ⓑ outwards.
2. While pressing the eject lever, remove the cassette housing unit.
3. Remove the return link from the center plate of the cassette hanger.

※ The reel disk and capstan can now be replaced.

○ Remove the C washer at the top of the reel disk to remove the disk. (Replace with a new C washer after repairing.)

○ To replace the flywheel capstan, remove the E washer in the pinch roller section. Remove the main belt of the flywheel beforehand.

★ Cassette housing assembling method

1. Set the return link.
2. Install the cassette housing unit on the chassis.

○ While pressing the lever, assemble in the order shown below.

◆ Button lever assembling(See Fig. 4-14)

1. From the rear of the unit, remove the button lever mounting screw ①.
2. From the upper part of the button lever, remove the mounting screw ②. The screw cannot be taken out.
3. From the front, move the button lever upwards and pull it slightly to the front.

★ Assembling

1. Assemble the button lever and the rear section ⓒ.
2. Assemble the pinch roller shaft ⓓ, stud ⓔ and rod ⓕ.

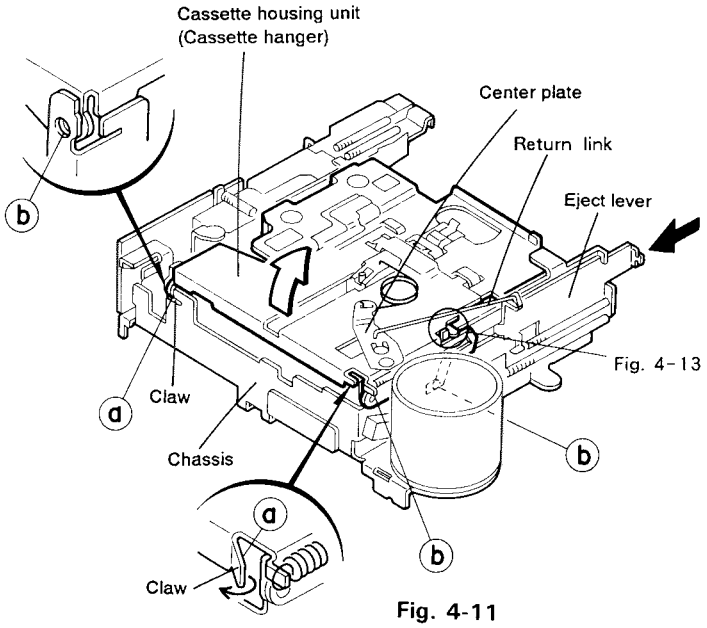


Fig. 4-11

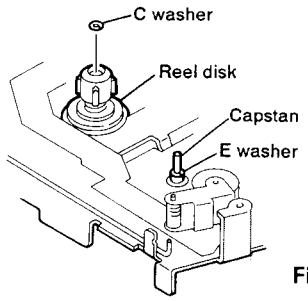


Fig. 4-12

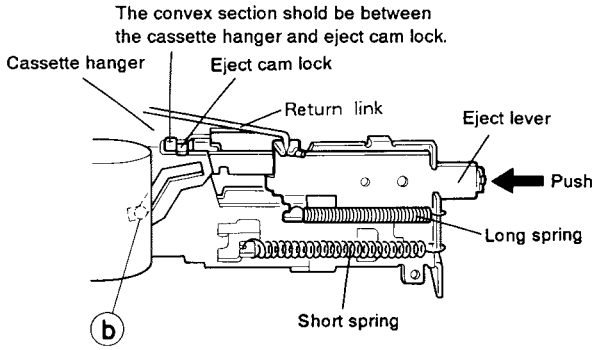


Fig. 4-13

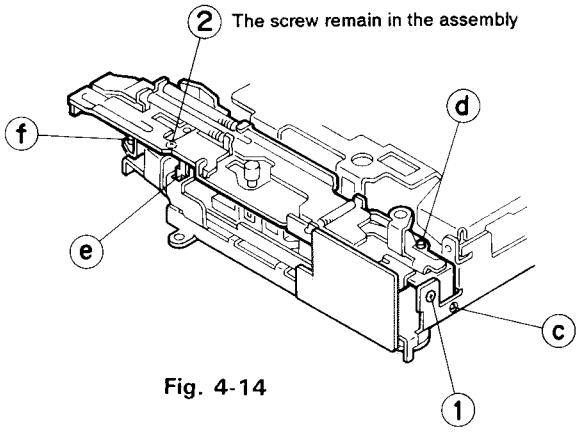


Fig. 4-14

◆Replacing the head/pinch roller assembly.

○ Pinch roller.(See Fig. 4-15)

1. Remove the E washer ③ on the pinch roller shaft.
2. Remove the pinch roller spring from the chassis and pull out the pinch roller assembly.

○ Head assembly. (See Fig. 4-15)

1. Remove the head mounting screw ④.
2. Remove the C washer ⑤ to pull out the collar.
3. Remove the plate to remove the springs and head. (The left and right springs are different.)

◆Motor (See Fig. 4-16)

1. Remove the main belt (capstan belt)/sub-belt.
2. Remove two motor mounting screws ⑥.

★ Sub-belt changing method.

1. Remove the main belt.
2. Remove the sub-belt from the motor pulley.
3. Remove three reel base unit mounting screws ⑦ andloosen one ⑧.
4. Lift up the reel base slightly to change the belt.

◆Reel base unit (See Fig. 4-16~4-17)

1. Remove select link B rod at the top front by turning the rod near the pinch roller as shown in the figure.
2. Remove four reel base unit mounting screws ⑦ and ⑧.
3. Remove the reel base unit carefully. (Note: service for the reel base unit is not available.)

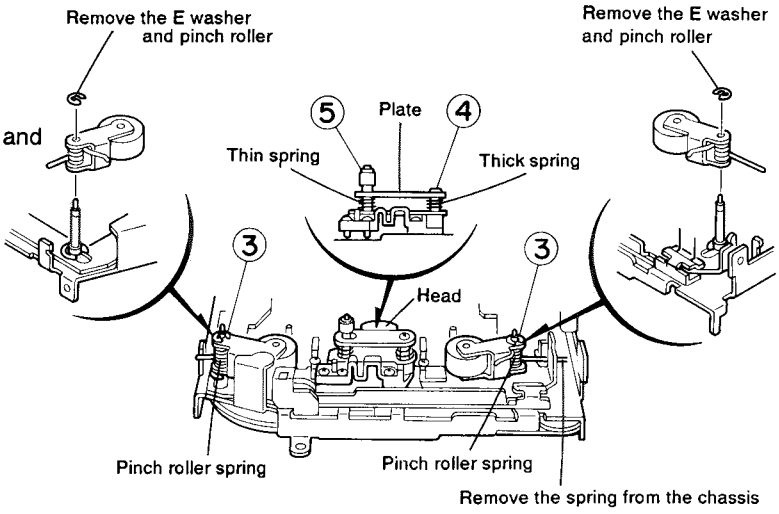


Fig. 4-15

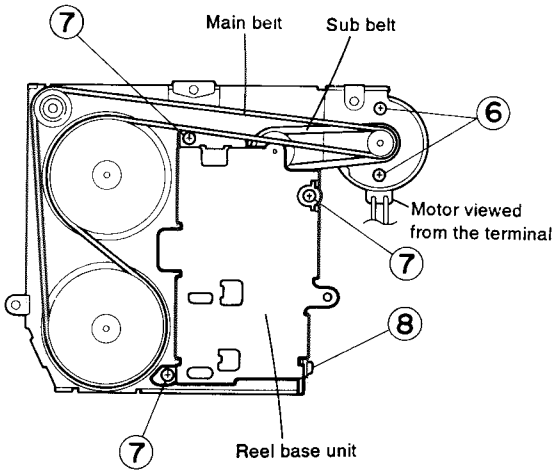


Fig. 4-16

Inside view of the reel base unit

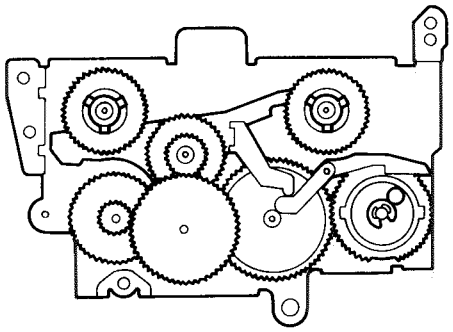


Fig. 4-18

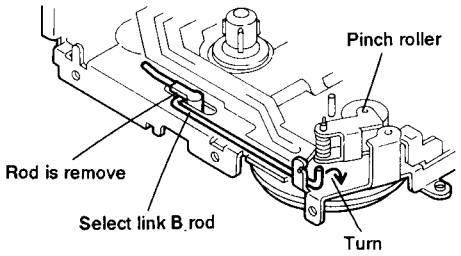


Fig. 4-17

5. Main Adjustment

■ Test Instruments reqired for adjustment

1. Digital oscilloscope(100 MHz)
2. AM Standard signal generater
3. FM Standard signal generater
4. Stereo modulator
5. Electric voltmeter
6. Digital tester
7. Tracking offset meter
8. Pulse jitter meter
9. Test Tapes

VTT721 ····· For Output level measurement
VTT724 ····· For DOLBY level measurement
VTT739 ····· For playback frequency measurement
VTT712 ····· For wow flutter&tape speed measurement
VTT704 ····· For head azimuth measurement

10. Torque gauge ····· Cassette type for CTG – N (mechanism adjustment)
TW – 2111A(FWD PLAY)
TW – 2121A(REV PLAY)

■ Measuring conditions (Amplifier section)

Power supply voltage ····· DC14.4V(10.5~16V)
Load impedance ····· 4 Ω (4 Speakers connection)
Line out ····· 20k Ω

● Standard volume position

Balance and Bass &Treble volume :Indication"0" .
Loudness : Off

Setting of referance frequency of SSG

AM mode :1000kHz/62dB, INT/400Hz, 30%modulation signal on (J version)
AM mode :999kHz/62dB, INT/400Hz, 30%modulation signal on (E/G version),
FM mono mode : 97.9MHz/66dB, INT/400Hz, 22.5kHz deviation pilot off mono
FM stereo mode ····· 1kHz, 67.5kHz dev., pilot 7.5kHz dev.
Output level ····· 0dB(1 μ V, 50 Ω /open terminal)

■ Tuner section

Band Step

FM : 200kHz step
FM : 100kHz (Seek), 50kHz (Manual)
AM : 10kHz step (J version), 9kHz step (E/G version)
AM :

Dummy load

Exclusive dummy load should be used for AM,and FM. For FM dummy load, there is a loss of 6dB between SSG output and antenna input. The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

■ How to connection for extension cords

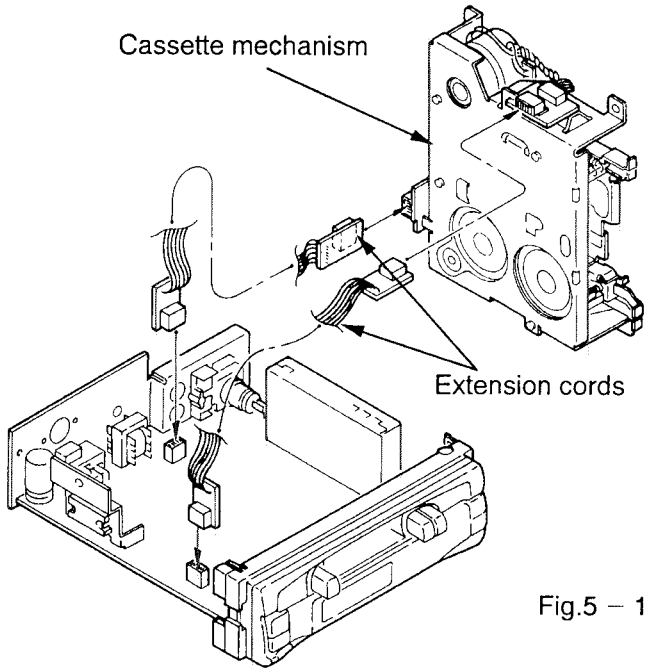


Fig.5 – 1

■ Arrangement of Adjusting Point

● Cassette mechanism (Capstan motor & Playback head view)

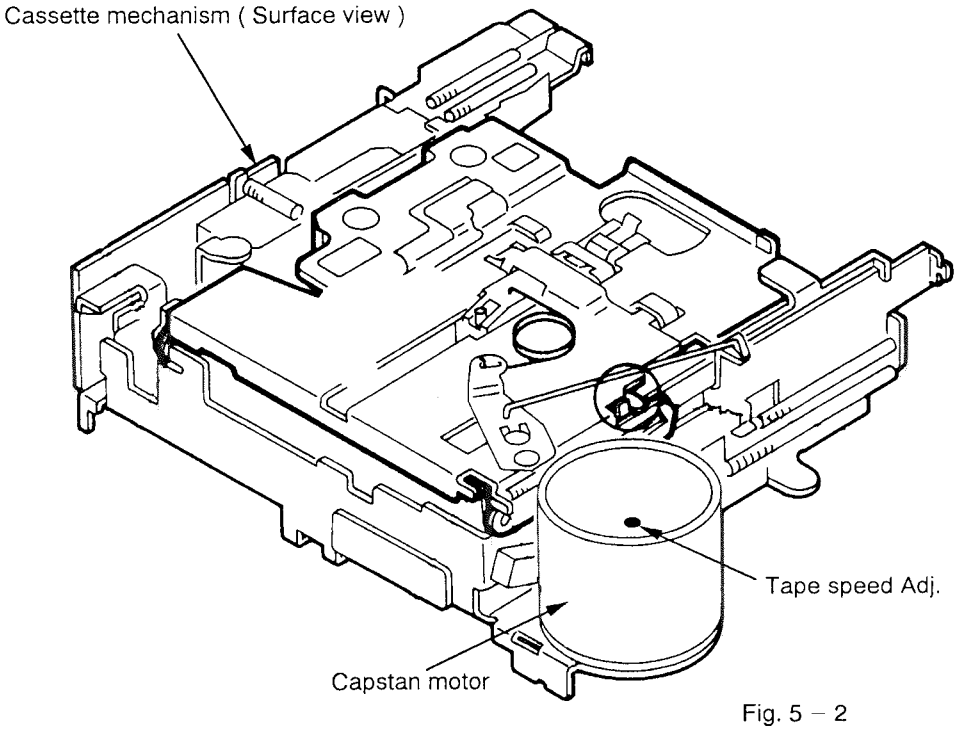


Fig. 5 – 2

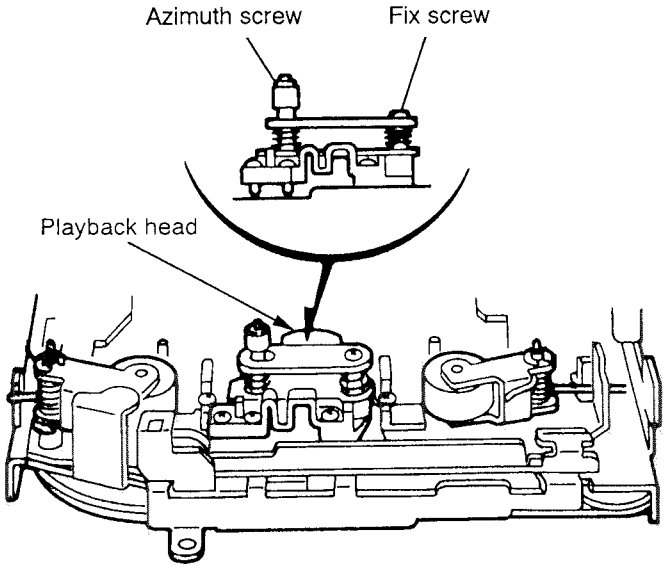
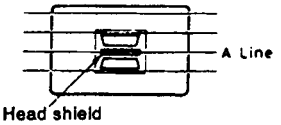
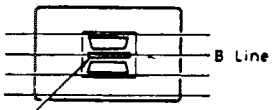
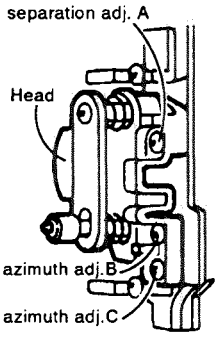
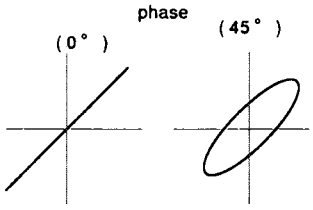


Fig.5 – 3

■ Cassette Mechanism & Amplifier Section

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
1. Head azimuth adjustment	Test tape: Mirror tape SCC – 1659 VTT703 (10kHz) VTT724 VTT721	◆ 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. 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. ◆ Head azimuth adjustment 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.	 Head shield **The head is at low position during FWD.**  Head shield **The head is at high position during REV.** Output level: Maximum  	
2. Tape speed and wow flutter confirmantion	Test tape:VTT712 (3kHz)	1.Check to see if the reading of the F. counter/wow flutter meter is within 2940~3090(FWD/REV), and less than 0.35% (JIS RMS) . 2. In case of out of specefication, adjust the motor with a built-in volume resistor.	Tape speed: 2940 ~3090Hz Wow & flutter: less than 0.35%	Built-in volume resistor
3.Playback frequency response confirmation	Test tape:VTT724 (1kHz) VTT739 (125Hz/1kHz/8kHz)	1. Play test tape VTT724, and set the volume position at 2 V 2. Play test tape VTT739 and confirm 1kHz/8kHz: 0 ± 3dB, 1kHz/125Hz: – 4~+2dB. 3. When 8 kHz is out of specification, it will be nesessary to read adjust the azimuth	Speaker out 1kHz/125Hz : – 4+2dB 1kHz/8Hz :0 ± 3dB	

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
4. Maximum out put power comfirmation	Test tape :VTT721 (1kHz) volume:maximum BASS/TRE:center	1. Confirm the rear output be more than 4.5V((5W).(4-speaker connected) 2. Confirm that consumption current at above condition to be less than 10A. 3. Sound leakage should not occur at volume minimum. 5. Oscillation should not occur at BASS/TRE at maximum.	Output level:more than 5W(4.5V) Consumption current :less than 10A	
5. Line out level Comfirmation	Test tape:VTT721 (1kHz) Test point : Line out (Load 20k Ω)	1.Comfirm the line out level to be within 1.1~1.9V	Line out level 1.1~1.9V	

6. Analytic Drawing and Parts List

■ Enclosure Assembly Section: Block No. M1

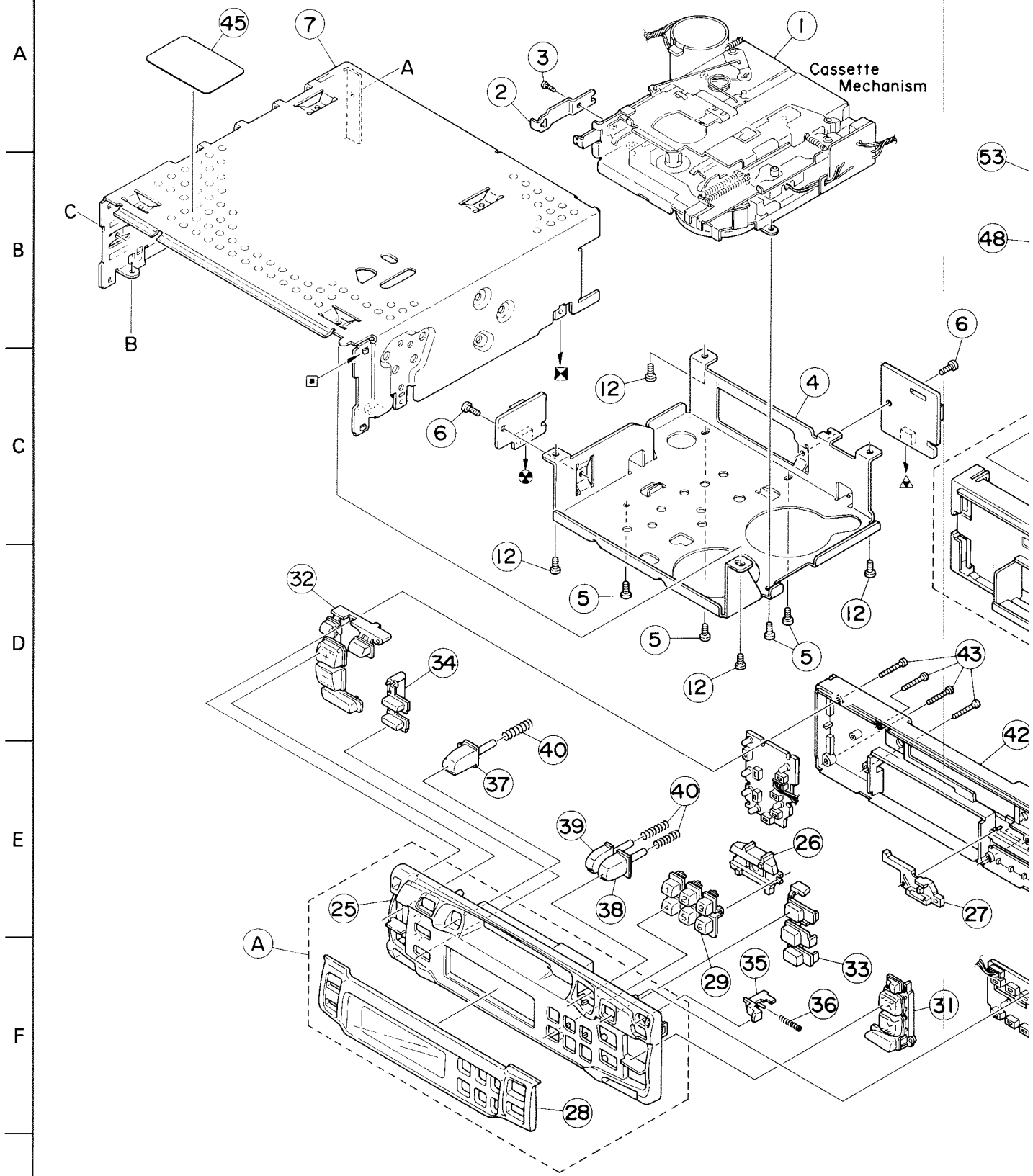
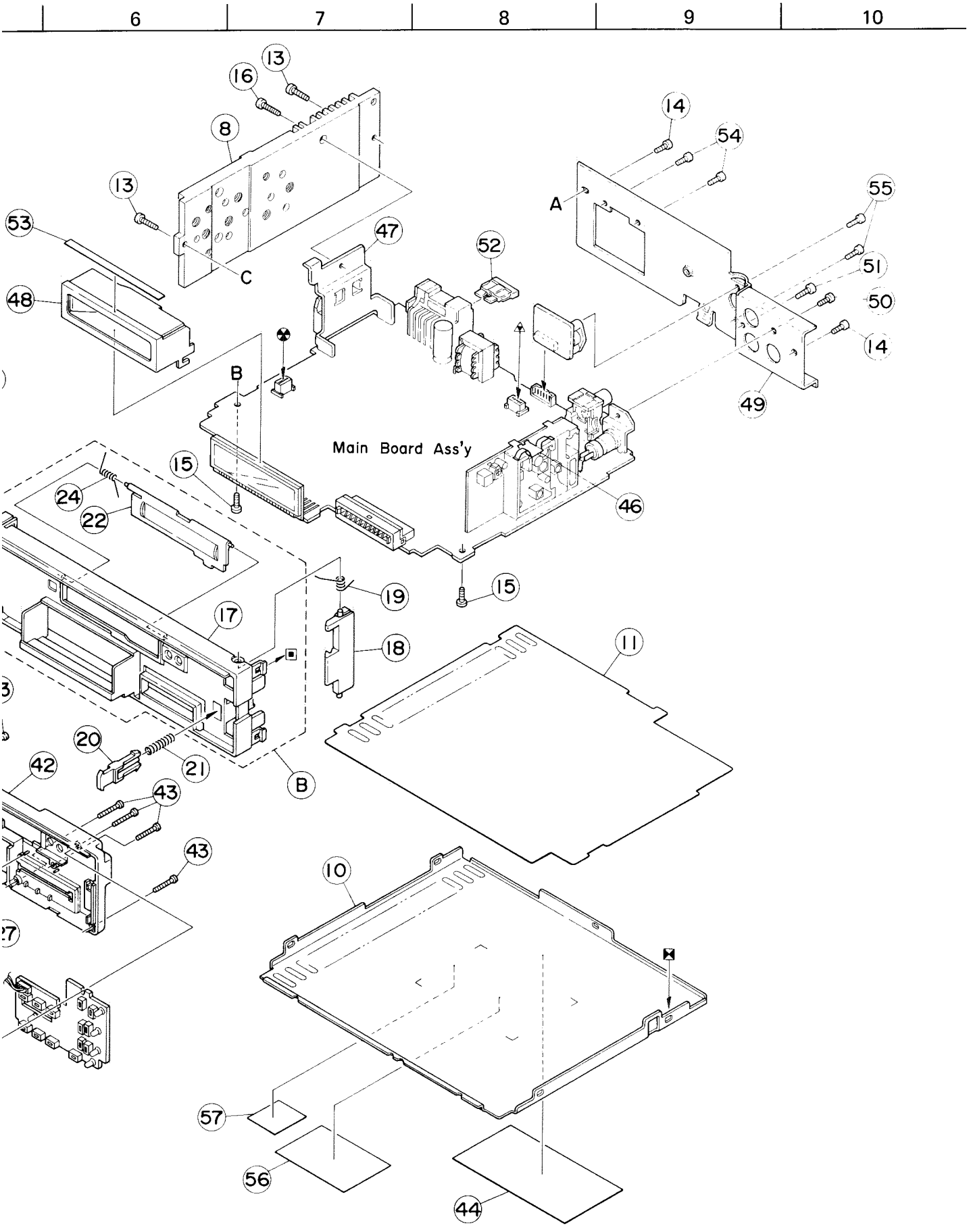


Fig. 6-1


6
7
8
9
10
Main Board Ass'y
A
B
C

■ Enclosure Assembly Parts List

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCKSRT220RK-NPA	NOSE PIECE ASSY	NO,25,28	1		
	B	ZCKSRT220RK-FB	F.CHASSIS ASSY	NO,17,22,24	1		
	1	----------	RT111 MECHA	2CH HEAD MECHA	1		
	2	VKL7821-001	EJECT LEVER		1		
	3	SPSK2625Z	MINI SCREW		1		
	4	VKL2748-001	MECHA BKT		1		
	5	SDSP2604Z	SCREW	MECHA+M.BKT(F)	4		
	6	SDST2606Z	SCREW	C. PWB + M. BKT	2		
	7	FSJC1014-002	CHASSIS		1		
	8	FSKL3004-001	SIDE PANEL		1		
	10	FSKM3004-001	BOTTOM COVER		1		
	11	FSMA3001-001	INSULATOR		1		
	12	SDST2604Z	SCREW	CHASSIS+M.BKT	4		
	13	SDST2608Z	SCREW	CHASSIS+S.PANEL	2		
	14	SDST2606Z	SCREW	CHASSIS+R.BKT	2		
	15	SDST2606Z	SCREW	CHASSIS+MAIN PW	2		
	16	SDST2608Z	SCREW	SIDE PANEL+IC B	1		
	17	FSJC2005-003	FRONT CHASSIS		1		
	18	FSKS3002-001	LOCK LEVER		1		
	19	FSKW4005-003	TORSION SPRING	FOR LOCK LEVER	1		
	20	FSXP3026-001	RLS KNOB		1		
	21	FSKW3002-004	COMP.SPRING		1		
	22	FSJC4003-010	CASSETTE LID		1		
	24	VKW4947-003	DOOR SPRING		1		
	25	FSJC1015-008	FRONT PANEL		1		
	26	FSJK3001-002	LIGHT LENS	FOR PRESET BUTT	1		
	27	FSJK3002-001	LENS	CASSETTE LID	1		
	28	VJK2197-018	FINDER LENS		1		
	29	FSXP2024-001	PRESET BUTTON		1		
	31	VXP1005-007SS	UP/DOWN BUTTON		1		
	32	VXP1006-005SS	+/- BUTTON		1		
	33	VXP2100-015SS	OPERAT.BUTTON		1		
	34	FSXP3019-011	PUSH BUTTON	M.SCAN/MONO	1		
	35	FSXP3020-002	DETACH BUTTON		1		
	36	VKW3001-321	COMP. SPRING	FOR DETACT BUTT	1		
	37	VXP3763-001	EJECT BUTTON		1		
	38	VXP3764-001	F.F.BUTTON		1		
	39	VXP3765-001	REWIND BUTTON		1		
	40	VKW3001-323	COMP. SPRING	FOR EJECT BUTTO	1		
		VKW3001-323	COMP. SPRING	FOR FF BUTTON	1		
		VKW3001-323	COMP. SPRING	FOR REW BUTTON	1		
	42	FSJC1016-002	REAR COVER		1		
	43	SPSF1780M	MINI SCREW	FRONT+REAR	8		
	44	FSYN3022-005	NAME PLATE		1	E	
		FSYN3022-006	NAME PLATE		1	J	
	45	VND4391-001	CAUTION LABEL		1	J	
	46	VMA4652-001SS	EARTH PLATE		1		
	47	FSKL4011-001	P.W.B.BRACKET		1		
	48	FSYH2002-004	LAMP CASE		1		
	49	FSKM3009-001	REAR BRACKET		1		
	50	SDST2606Z	SCREW	REAR BKT+ANT C	1		
	51	SDSF3006Z	SCREW	LINE IN/OUT+REA	1		
	52	QMFZ021 – 100 – J1	FUSE		1		
	53	FSYH4036-004	SPACER		1		
	54	SDSP2606Z	SCREW	16 CONNECTOR+RE	2		
	55	SDSF2608Z	SCREW		2		
	56	E407097-002	HYATT L.LABEL		1	J	
	57	VND5008-001	FCC LABEL(4)		1	J	

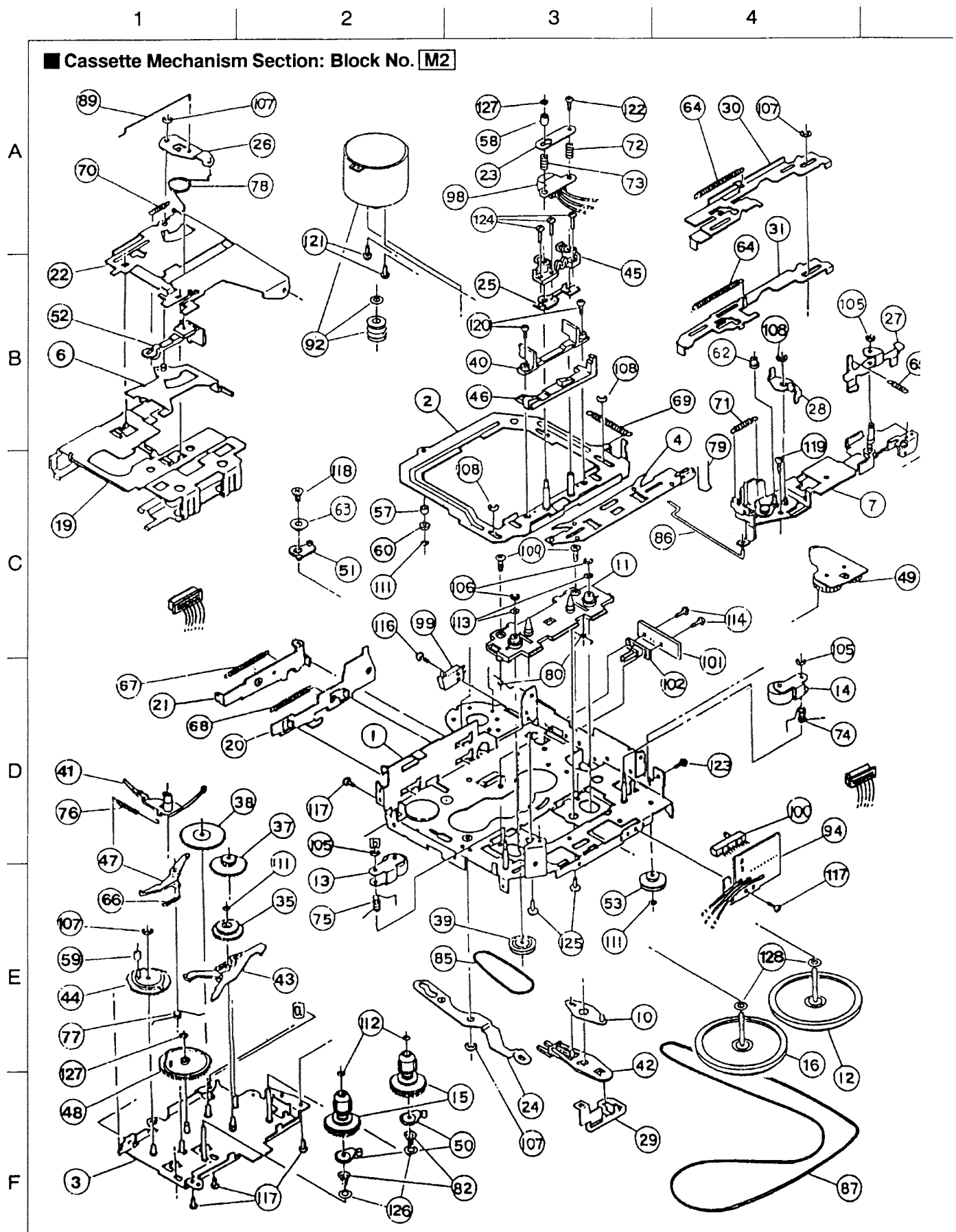


Fig. 6-2

■ Cassette Mechanism Parts List

BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	X-0036-1001S	MAIN CHASSIS AS		1		
	2	X-0036-6082S	HEAD PLATE ASSY		1		
	3	X-0036-1009S	REEL BASE ASS'Y		1		
	4	X-0036-1010S	FR CHANGE ARM A		1		
	6	X-0036-1019S	EJ.CAM LOCK ASY		1		
	7	X-0036-6077S	LEVER BKT ASS'Y		1		
	10	X-0036-1025S	FR ARM(A)ASS'Y		1		
	11	X-0138-2006S	CM BKT ASS'Y(X)		1		
	12	1-0036-6010-0S	FLYWHEEL ASY(BF		1		
	13	1-0138-6002S	PINCH ARM(R)ASS		1		
	14	1-0138-6003S	PINCH ARM(F)ASS		1		
	15	X-0036-6080S	REEL SPINDLE AS		2		
	16	1-0036-6010-1S	FLYWHEEL ASY(BR		1		
	19	1-0138-1010S	CASSETTE HOLDER		1		
	20	1-0036-1006S	EJECT CAM		1		
	21	1-0036-1007S	EJECT LEVER		1		
	22	1-0138-1002S	CASSETTE HANGER		1		
	23	1-0036-1015S	SPG SUPPORT PLT		1		
	24	1-0036-1016S	CONVERSION LEVE		1		
	25	1-0138-1006S	ADJUSTER SHIN(X		1		
	26	1-0036-1018S	CENTER PLATE		1		
	27	1-0036-1013S	LOCK ARM		1		
	28	1-0036-1023S	CHANGE LEVER(B)		1		
	29	1-0036-1026S	FR ARM(B)		1		
	30	1-0036-1065S	FF LEVER(JVC)		1		
	31	1-0036-1066S	REW LEVER(JVC)		1		
	35	1-0036-2001S	IDLE GEAR		1		
	37	1-0036-2004-0S	REDUCT.GEAR(A)		1		
	38	1-0036-2003S	REDUCT.GEAR(B)		1		
	39	1-0036-2005-0S	PULLEY GEAR		1		
	40	1-0038-2018S	TAPE GUIDE		1		
	41	1-0036-2007S	RATCHET		1		
	42	1-0036-2008S	FF ARM		1		
	43	1-0036-2009S	SENSOR ARM		1		
	44	1-0036-2010S	SELECTOR GEAR		1		
	45	1-0138-2005-3S	ADJUSTER ARM(B)		1		
	46	1-0138-2004S	ADJUSTER LINC(X		1		
	47	1-0038-2014S	GEAR LOCK ARM		1		
	48	1-0036-2014S	DETECTOR GEAR		1		
	49	X-0036-2015S	TU GEAR ARM ASY		1		
	50	X-0136-2001S	DETEC. CAM ASSY		2		
	51	1-0038-2034S	MUTE ARM(N)		1		
	52	1-0058-2004S	TAPE HOOKER		1		
	53	1-0058-2021-5S	IDLE PULLEY(A)		1		
	57	1-0036-3024S	HP ROLLER(B)		1		
	58	1-0036-3004S	FF ROLLER		1		
	59	1-0036-3018S	COLLER	SELECTOR GEAR	1		
	60	1-0036-3002S	HP ROLLER(A)		1		
	62	1-0038-3012S	PROGRAM ROLLER		1		
	63	1-0038-3015S	MUTE ARM COLLER		1		
	64	1-0036-4001S	FF/REW LEVER SP		2		
	65	1-0036-4002S	LOCK LEVER SPG		1		
	66	1-0036-4003S	GEAR LOCK ARM S		1		
	67	1-0036-4004S	EJECT LEVER SPG		1		

BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	68	1-0036-4005S	EJECT CAM SPG		1		
	69	1-0036-4006S	HEAD PLATE SPG		1		
	70	1-0036-4007S	EJ.CAM LOCK SPG		1		
	71	1-0036-4008S	PROGRAM ARM SPG		1		
	72	1-0036-4010S	ADJUST ARM SP(A		1		
	73	1-0036-4011S	ADJUST ARM SP(B		1		
	74	1-0036-4012S	PINCH ARM SPG(F		1		
	75	1-0036-4013S	PINCH ARM SPG(R		1		
	76	1-0038-4014S	RATCHET SPG		1		
	77	1-0036-4015S	DASH SPG		1		
	78	1-0036-4023S	CENTER PLT SP(B		1		
	79	1-0036-4017S	CHANGING ARM SP		1		
	80	1-0036-4018S	EARTH SPG(R)		2		
	82	1-0138-4001S	BACK TEMSION SP		2		
	85	1-0036-5001S	SUB BELT		1		
	86	1-0138-5001S	SELECTOR LINK(B		1		
	87	1-0036-5020S	MAIN BELT(AL)		1		
	89	1-0036-5006S	RETURN LINK		1		
	92	X-0036-6075S	MOTOR ASS'Y	EG-520ED-3B	1		
	94	1-0036-7001S	SW PWB		1		
	98	1-0036-7016S	HEAD	P-7542-CF-0358	1		
	99	1-0058-7013S	POWER SW	MQS-4S	1		
	100	1-0036-7007S	SLIDE SW		1		
	101	1-0138-7002S	MUTE PWB		1		
	102	1-0138-7087S	MUTE SW		1		
	105	2-1711-5040-16S	E RING	1.5	3		
	106	2-1711-6032-96S	E RING	1.6X3.2	2		
	107	2-1712-0050-16S	E RING	2	4		
	108	2-1712-5060-16S	E RING	2.5	3		
	109	2-1331-7030-C2S	SCREW S	PL M1.7X3	2		
	111	2-1812-0030-D2S	P.WASHER(S)	1.2X3X0.25	3		
	112	1-0036-5023S	P.WASHER(REEL)	1.5X3.2X0.2	2		
	113	2-1821-0032-21S	P.WASHER	2.1X3.2X0.2	2		
	114	2-1331-7040-C2S	SCREW S	PL M1.7X4	2		
	116	2-1331-7060-C2S	SCREW S	PL M1.7X6	1		
	117	2-1382-0030-C2S	SCREW B	PL M2X3	5		
	118	2-1362-0040-F2S	SCREW B	FL M2X4	1		
	119	2-1332-0040-C1S	SCREW S	PL M2X4	1		
	120	2-1032-0070-C2S	SCREW	PL M2X7	2		
	121	2-1032-0025-C2S	SCREW	PL M2X2.5	2		
	122	2-1012-0040-C2S	SCREW	PL M2X4	1		
	123	2-1012-0030-F2S	SCREW	FL M2X3	1		
	124	1-0138-5002S	AZIMUTH SCREW	PL M2X5	3		
	125	1-0036-5005S	EJ HOOK SCREW	M2X5	2		
	126	1-0136-5001S	WASHER(RED)	2.1X3.5X0.05	2		
	127	1-0036-5024S	WASHER(REEL)	1.5X3.2X0.25	2		
	128	1-0036-5028S	WASHER(FLY)	2.1X5.5X0.05	2		

7. Block Diagram

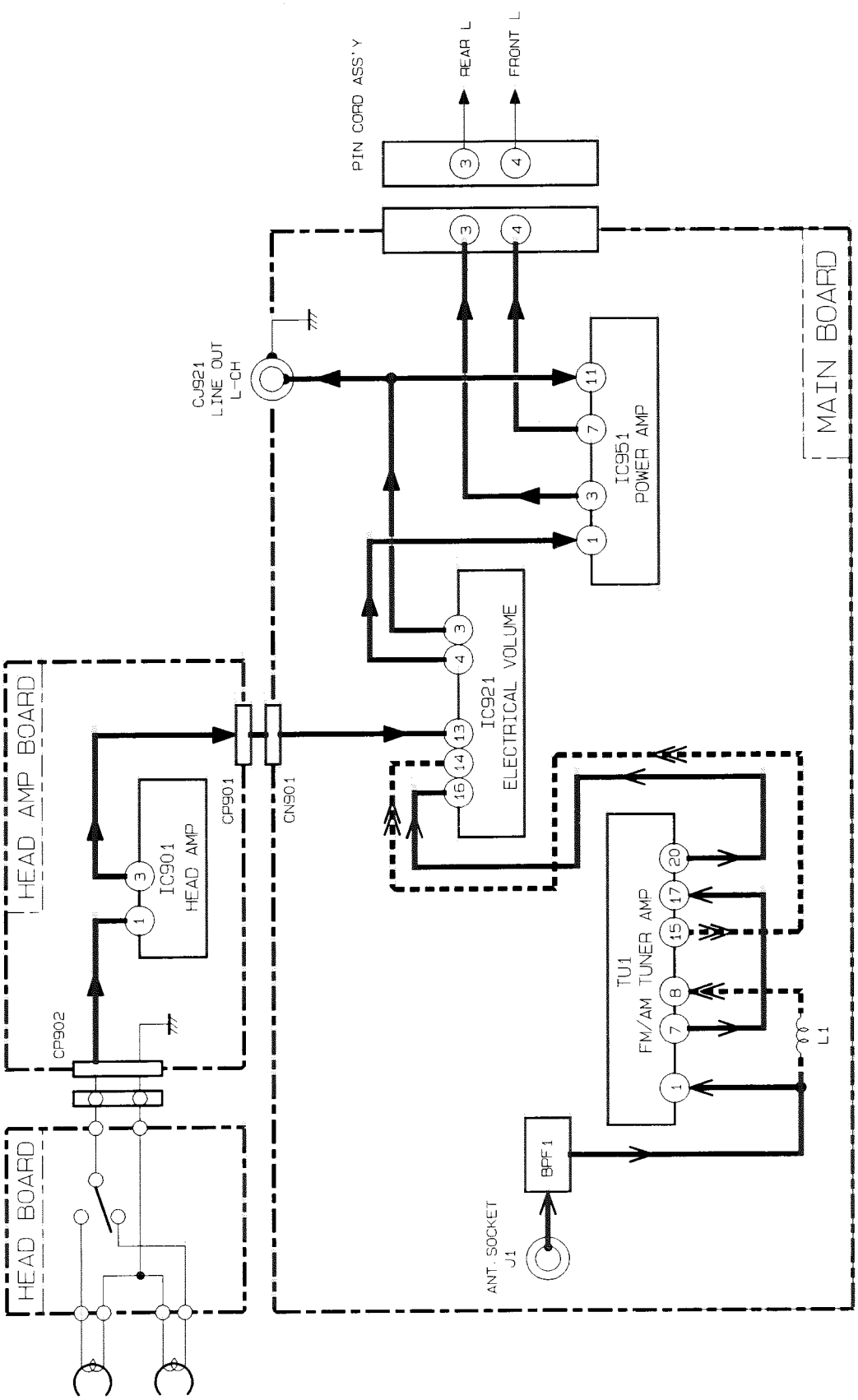


Fig. 7-1

8. Main IC Out Line

■ IC801: TDA3603P (REGULATOR)

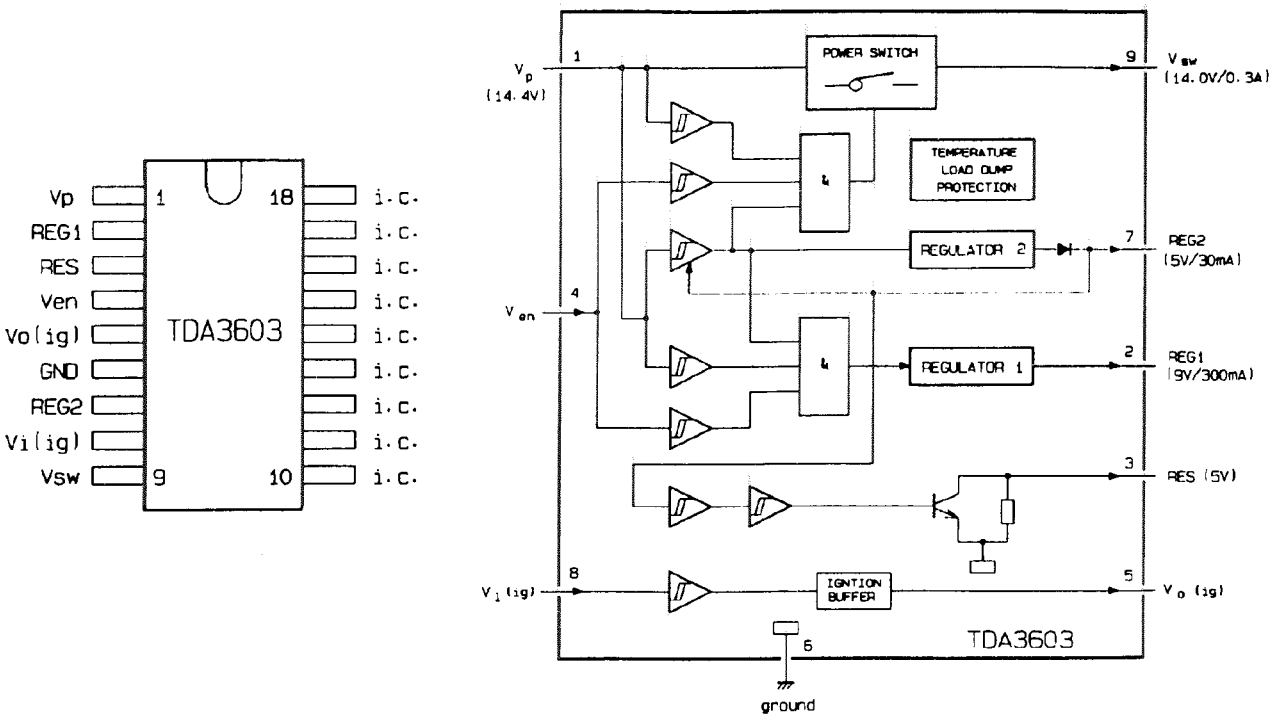


Fig. 8-1

■ IC921: TEA6320T (E. VOLUME)

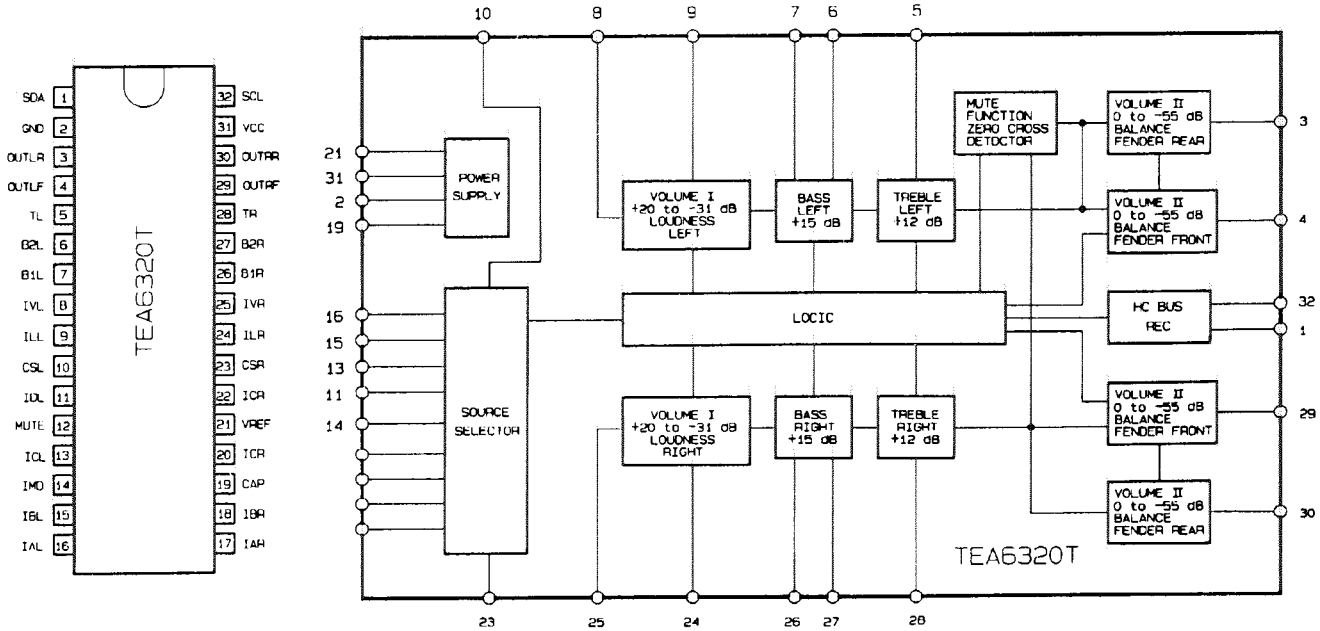


Fig. 8-2

■ IC701 : μ PD17005GF – E38 (CPU CONTROLLER) Terminal's Function Table

Pin No.	Symbol	I/O	Function
1	MSIN	I	During a song plays, input low ; During mute gap between 2 songs, input high.
2	TAPE MUTE	I	During tape muting, input low
3	SD	I	When receiving a broadcasting station, input high
4	I/OSEL	O	Communication between micro proceessor and CDmechanism
5	CDSCK	O	J bus clock output
6	CDSO	O	J bus data output
7	CDSI	I	J bus data input
8	SDA	O	Output data to electronics volume controller
9	SCL	O	Output clock to electronics volume controller
10	NC	O	Non connection
11	CDINT	I	J bus interrupt signal
12	EX/CD	I	H : "KS3,K23"as "EX"key L : "KS3,K23"as "CD"key
13	CE	I	For device operation selection and reset signal input (low to high)
14	ST	I	When receiving ST signal, input low
15	CD	O	Output high during CD mode
16	RADIO	O	Output high during RADIO mode
17	TAPE	O	Output high during TAPE mode
18	MUTE	O	Audio mute output, H : Mute off L : Mute on
19	DOLBY	O	H : Dolby mode on, L : Dolby mode off
20	MSOUT	O	Output lowe during tape MS mode
21	POWER ON	O	When power on output high
22	IFREQ	O	During seek, output high id SD signal is detected
23	AGC	O	During AM seek, AGC (Auto gain control) output high
24	FM/AM	O	H : FM band, L : AM band
25	MONO	O	In FM mono mode, output high
26	FMIFC	I	FM IF counter input port (IF range + – 20kHz)
27	AMIFC	I	AM IF counter input port (IF range + – 4kHz)
28	SMET (SMIN)	I	SM signal strength input ;During SSM mode used to select stations which have stronger signal
29	KEY1	O	For detecting keys "power","sound","scan", "vol + –","sel"andrandam".
30	Vdd1	I	Power supply 5V
31	AMOSC	I	Local oscillation low input for AM
32	FMOSC	I	Local oscillation low input for FM
33	GND		Ground pin of the device
34	XO	O	Oscillator connection output pin
35	XI	I	Oscillator connection input pin
36	EO0	O	PLL frequency synthesizer error out pin
37	NC		Non connection
38	NC		Non connection
39	NC		Non connection
40	NC		Non connection

Pin No.	Symbol	I/O	Function
41	Vdd2	I	2nd power supply 5V
42	NC		Non connection
43	COM1	O	LCD common signal output port 1
44	COM2	O	LCD common signal output port 2
45	NC		Non connection
46	NC		Non connection
47	LCD27	O	LCD segment signal output port 28
48	LCD26	O	LCD segment signal output port 27
49	LCD25	O	LCD segment signal output port 26
50	LCD24	O	LCD segment signal output port 25
51	LCD23	O	LCD segment signal output port 24
52	LCD22	O	LCD segment signal output port 23
53	LCD21	O	LCD segment signal output port 22
54	LCD20	O	LCD segment signal output port 21
55	LCD19	O	LCD segment signal output port 20
56	LCD18	O	LCD segment signal output port 19
57	LCD17	O	LCD segment signal output port 18
58	LCD16	O	LCD segment signal output port 17
59	LCD15	O	LCD segment signal output port 16
60	LCD14	O	LCD segment signal output port 15
61	LCD13	O	LCD segment signal output port 14
62	LCD12	O	LCD segment signal output port 13
63	LCD11	O	LCD segment signal output port 12
64	LCD10	O	LCD segment signal output port 11
65	LCD 9	O	LCD segment signal output port 10
66	LCD 8	O	LCD segment signal output port 9
67	LCD 7	O	LCD segment signal output port 8
68	LCD 6	O	LCD segment signal output port 7
69	LCD5/ KS5	O	LCD segment signal output port 6/key source signal output port 6 (for key "mono","Dolby"
70	LCD4/ KS4	O	LCD segment signal output port 5/key source signal output port 5 (for key "Up/down","Clock/FM"
71	LCD3/ KS3	O	LCD segment signal output port 4/key source signal output port 4 (for key "5", "6","EX/CD", "AM"
72	LCD2/ KS2	O	LCD segment signal output port 3/key source signal output port 3 (for key "1", "2", "3", "4"
73	LCD1/ KS1	O	LCD segment signal output port 2/key source signal output port 2 (for diode swites "FMIFC","dolby" "MS","Sel"
74	LCD0/ KS0	O	LCD segment signal output port 1/key source signal output port 1 (for diode swites "Area1", "Area2","Area3"
75	K3	I	Key input port 4
76	K2	I	Key input port 3
77	K1	I	Key input port 2
78	K0	I	Key input port 1
79	F/R	I	Tape play direction H : Forward, L : Reverse
80	TAPE IN	I	H : Tape function, L : Radio function

9. Wiring Connections

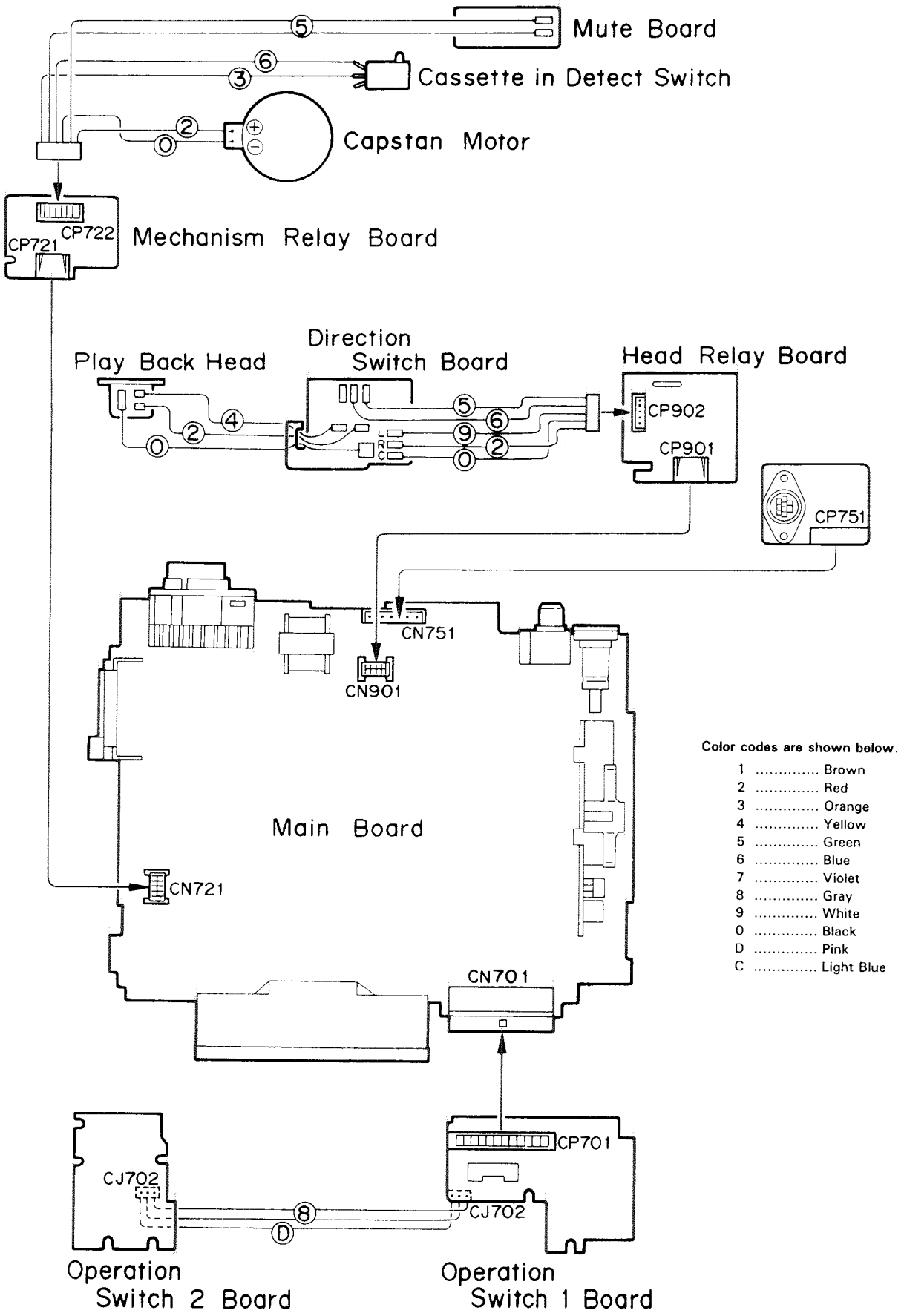
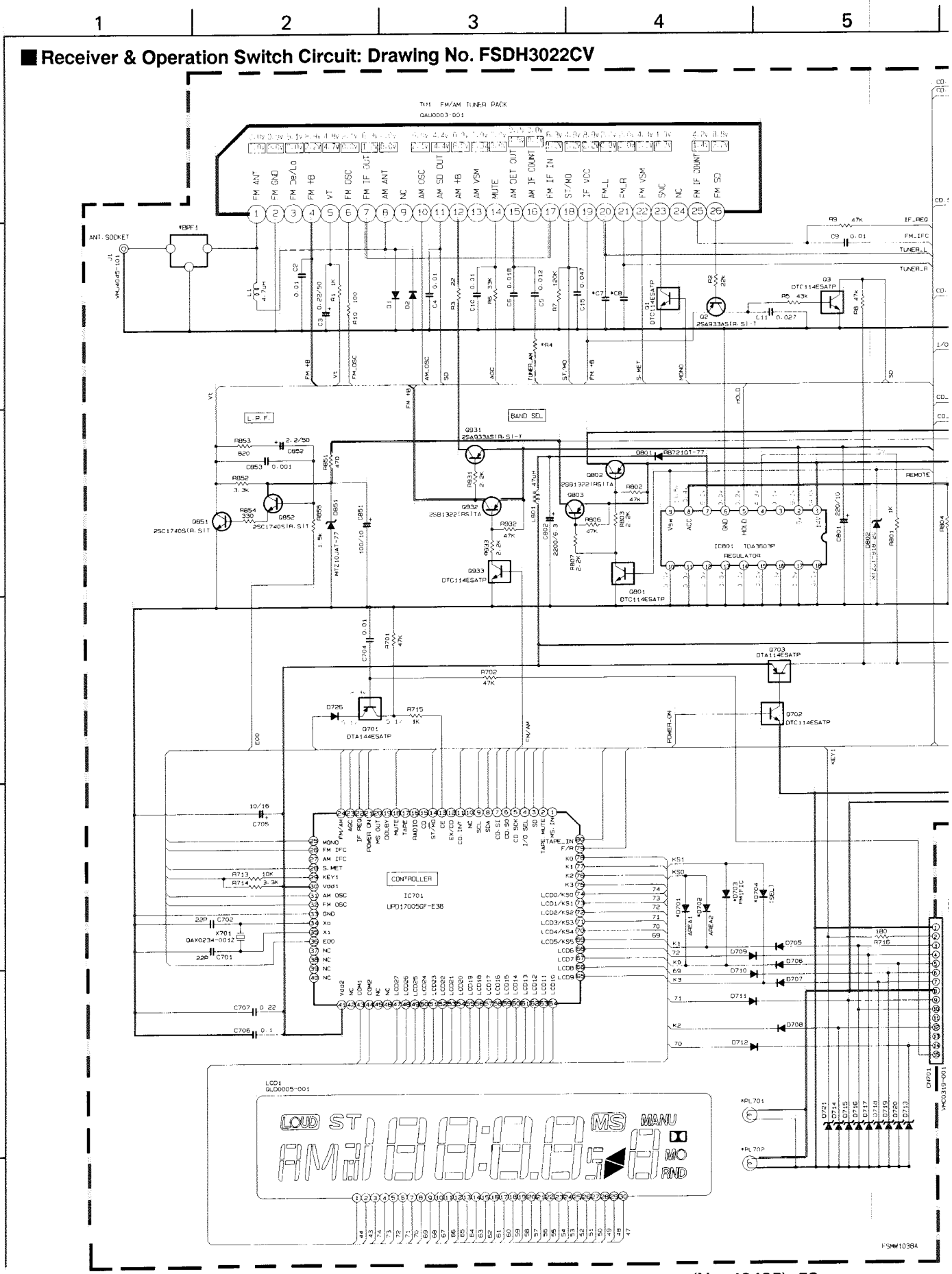
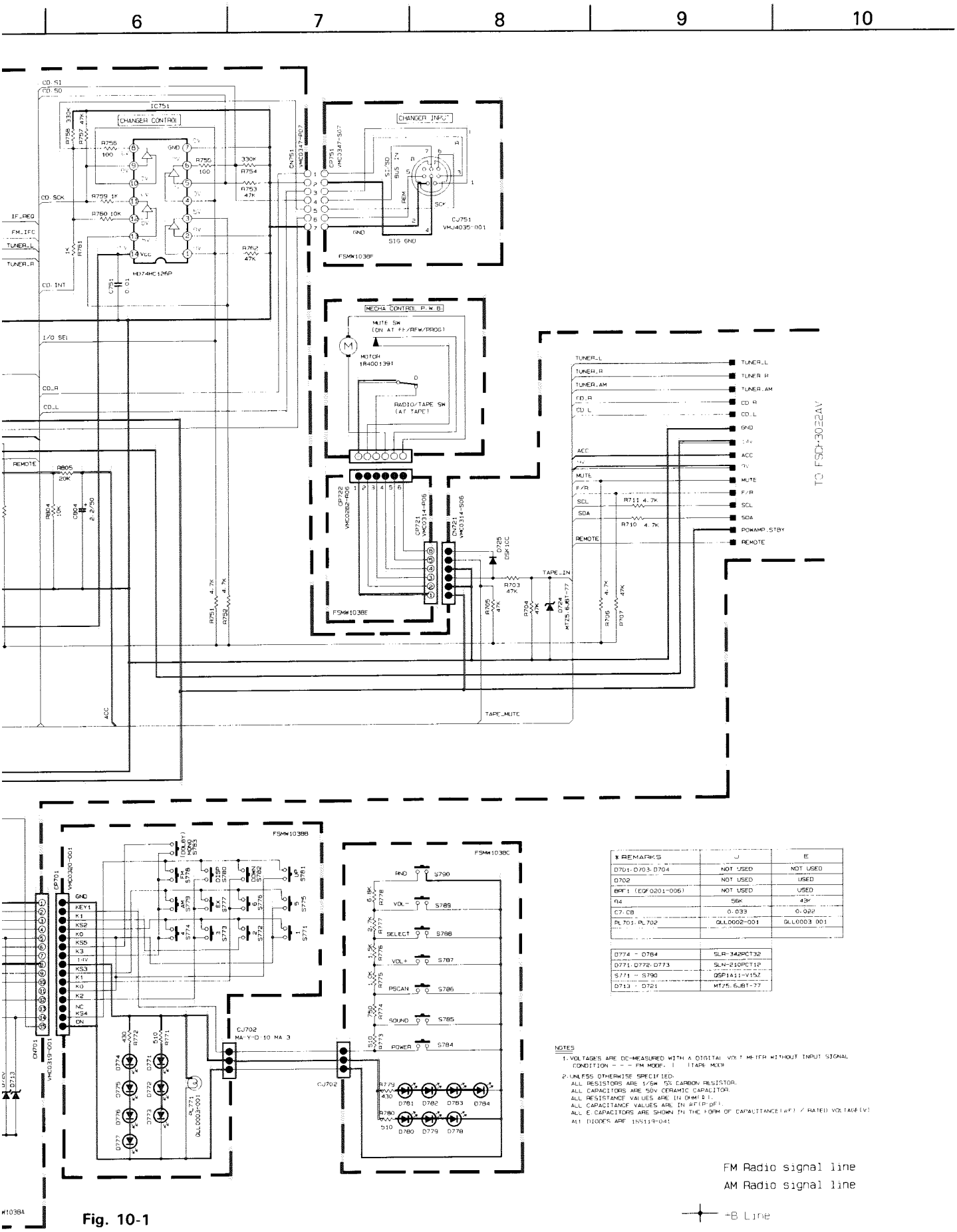


Fig. 9-1

10. Standard Schematic Diagram

■ Receiver & Operation Switch Circuit: Drawing No. FSDH3022CV





* REMARKS	J	E
D701, D703, D704	NOT USED	NOT USED
D702	NOT USED	USED
BPF1 (EQF0201-0061)	NOT USED	USED
R4	56K	43K
C7, C8	0.033	0.022
PL701, PL702	QLL0002-001	QLL0003-001

D774 ~ D784	SLR-342PCT32
D771, D772, D773	SLN-210PCT12
S771 ~ S790	QSP1A11-V152
D713 ~ D721	MTZ5.6JBT-77

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
   CONDITION - - - FM MODE: J ITAPE MODE
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM/K,M.
   ALL CAPACITANCE VALUES ARE IN MF/P,PF.
   ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(MF) / RATED VOLTAGE(V).
   ALL DIODES ARE 1SS119-041

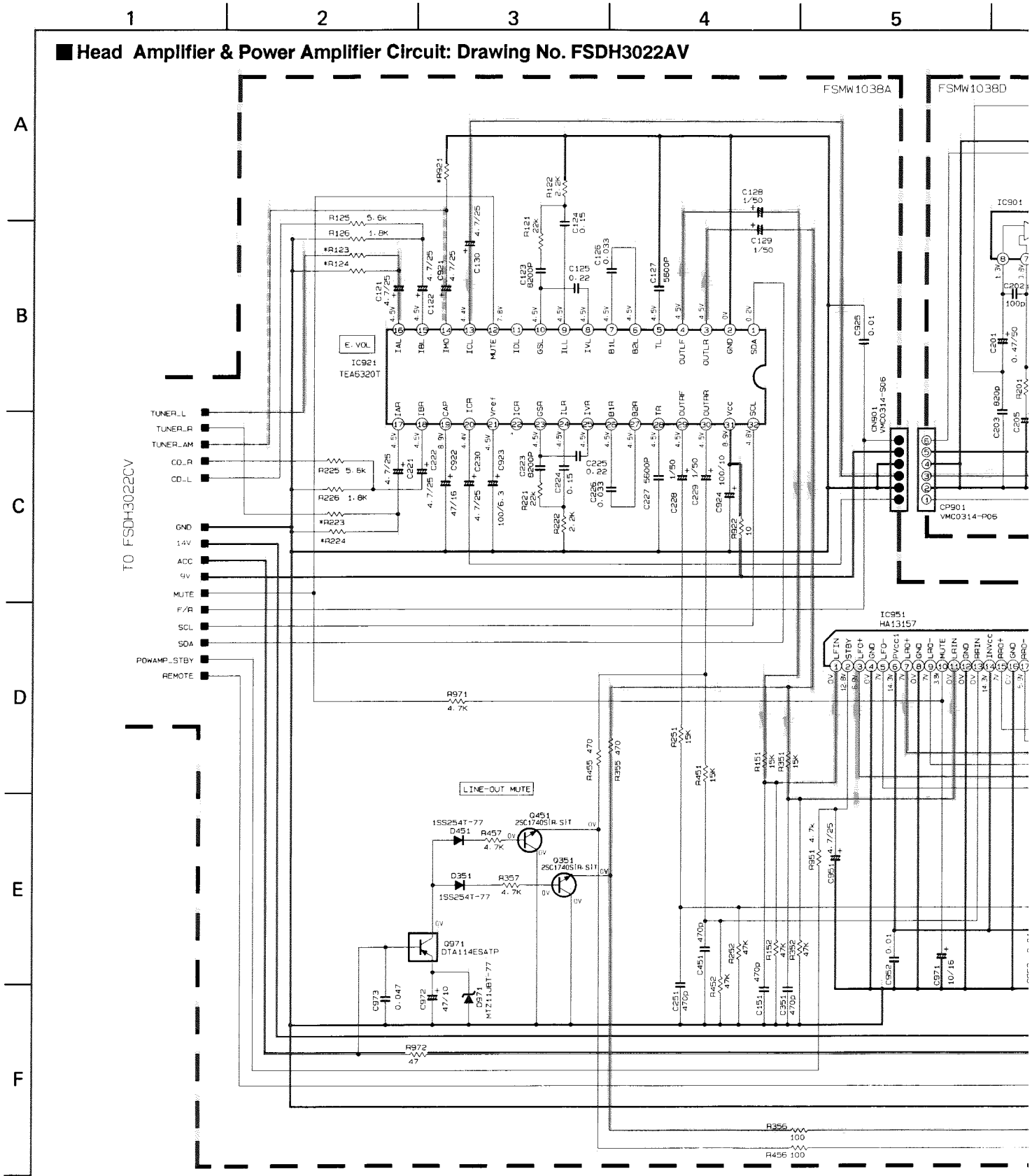
FM Radio signal line

AM Radio signal line

+B Line

Fig. 10-1

■ Head Amplifier & Power Amplifier Circuit: Drawing No. FSDH3022AV



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION - - - FM MODE: [ ] TAPE MODE
2. 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

* REMARKS	J	E
R124, R224	2.7K	4.3K
R123, R223	3.3K	2.7K
R921	22K	36K

Note : FSDH3022AV JES

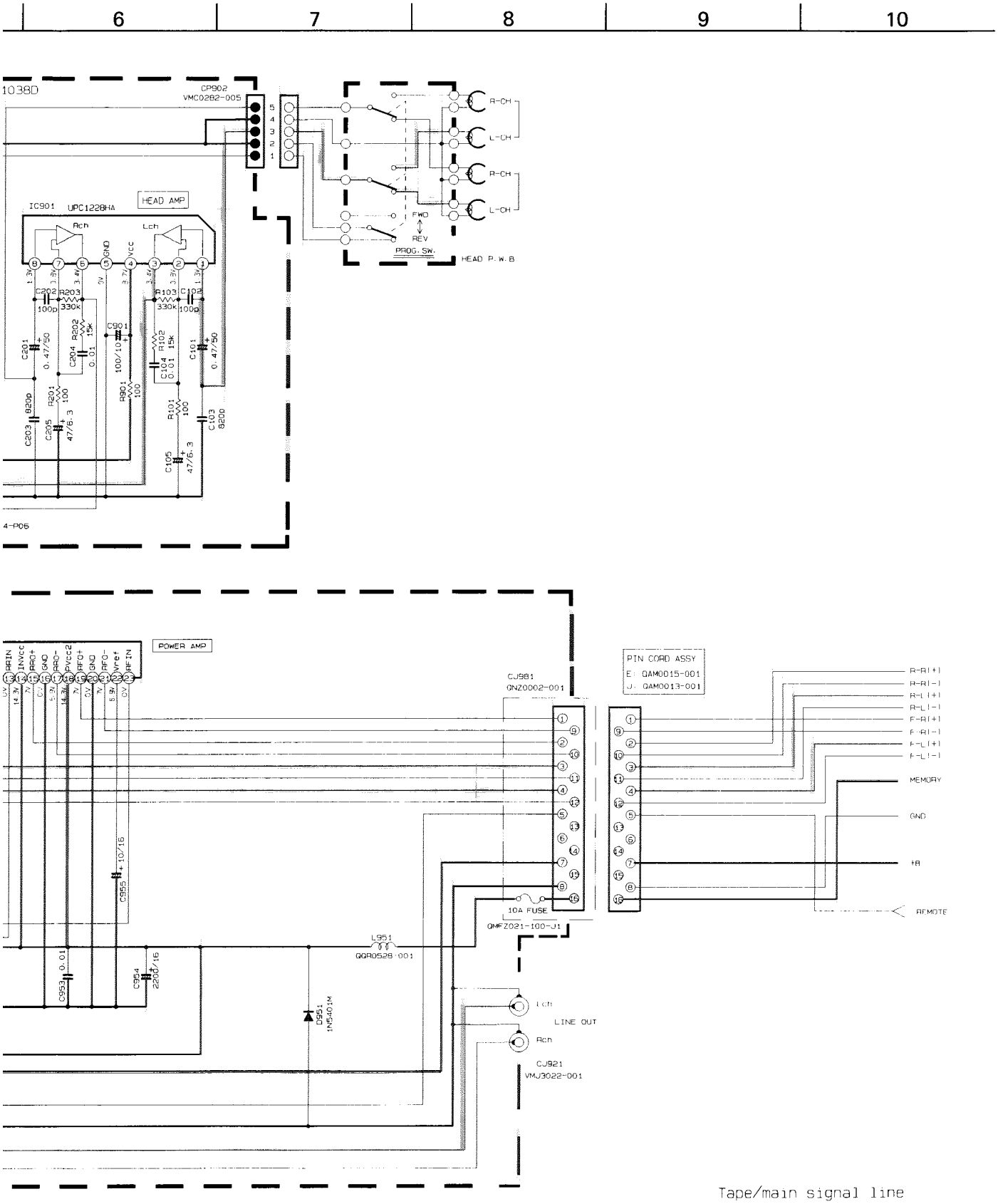

6
7
8
9
10
10380
CP902
VMC0282-005
HEAD AMP
IC901 UPC1228HA
Rch
Lch
PROG. SW.
FWD
REV
R-CH
L-CH
HEAD P. W. B
POWER AMP
CJ981
QNZ0002-001
PIN CORD ASSY
E: QAM0015-001
J: QAM0013-001
MEMORY
GND
+B
REMOTE
10A FUSE
QMFZ021-100-J1
L951
QQR0528-001
D951
1N5401M
LINE OUT
CJ921
VMJ3022-001
Tape/main signal line
FM Radio signal line
AM Radio signal line
+B Line

Fig. 10-2

11. Location of P. C. Board Parts

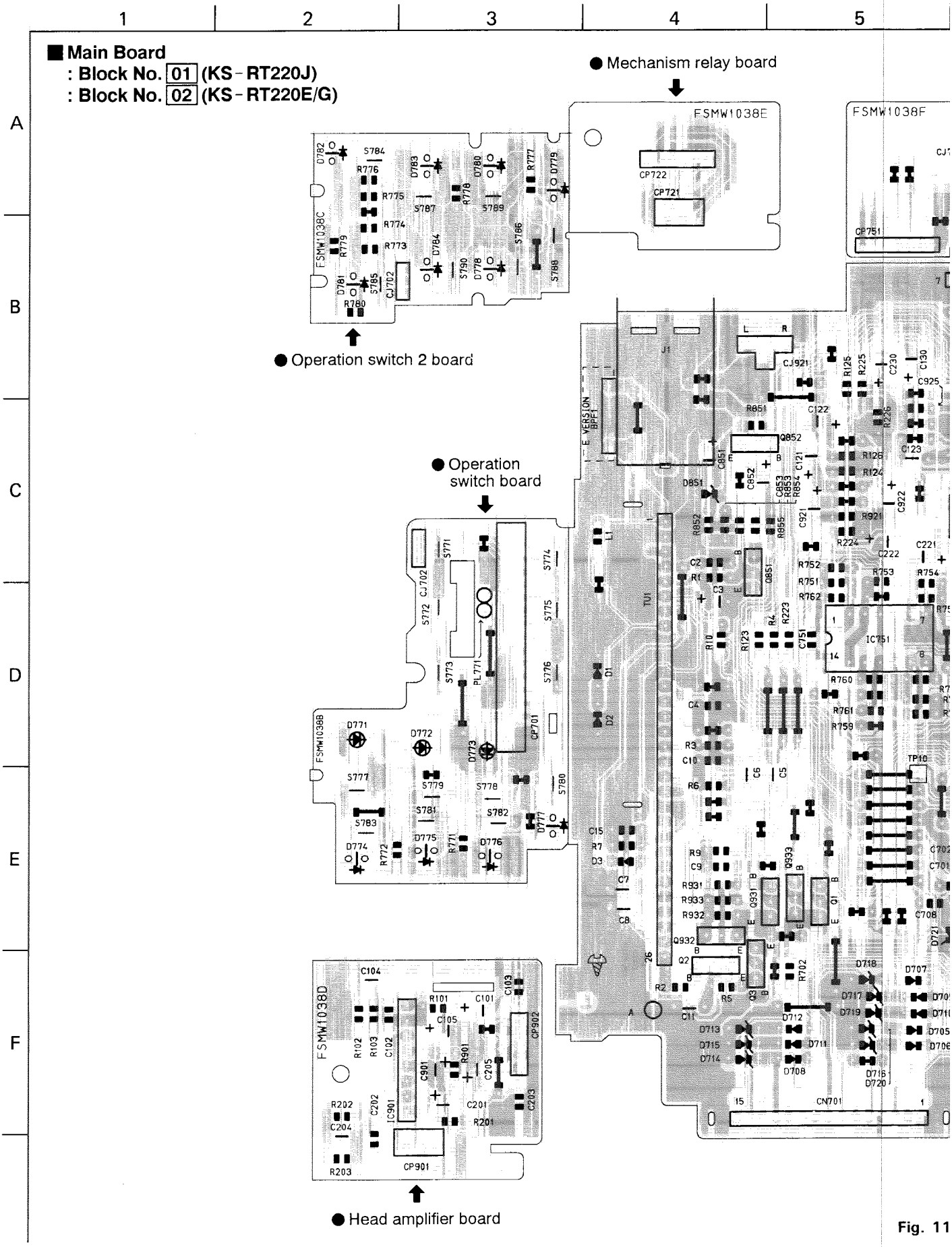


Fig. 11

6 7 8 9 10

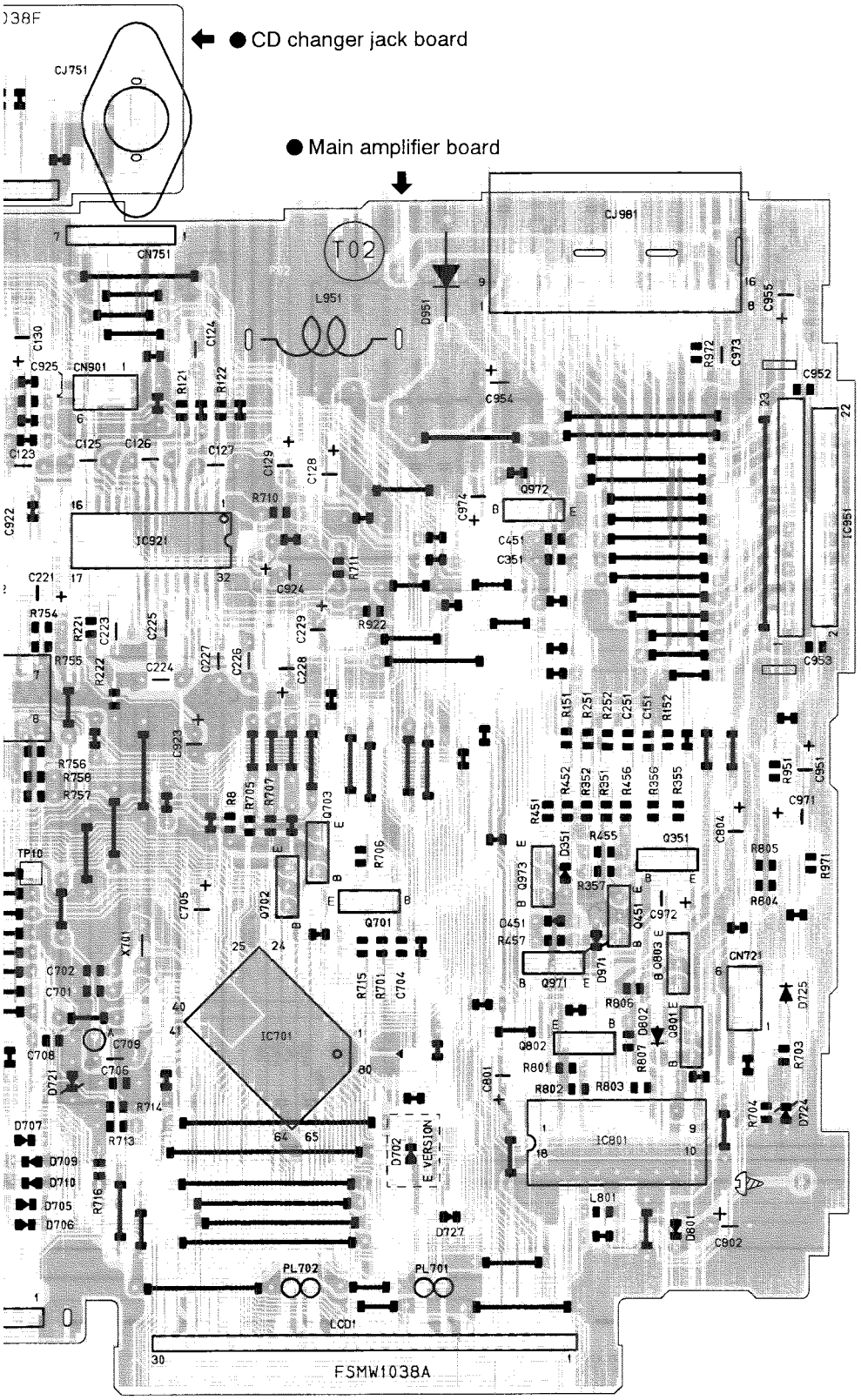


Fig. 11-1

■ Cassette Mechanism Board

● Mute board

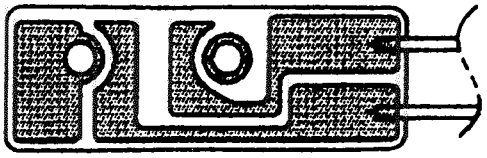
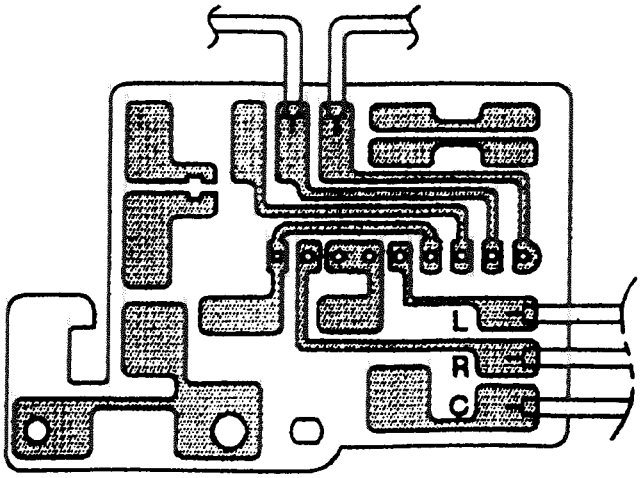


Fig. 11-2

● Direction switch board



To replay head

Fig. 11-3

12. Electrical Parts List

■ Main Board (KS - RT220J)

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 2	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 3	QERF1HM-224ZM	E.CAPACITOR	.22MF 20% 50V	
	C 4	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 5	QCC11EK-123Z	C.CAPACITOR	.012MF 10% 25V	
	C 6	QCC11EK-183ZV	C.CAPACITOR	.018MF 10% 25V	
	C 7	QCC11EK-333Z	C.CAPACITOR	.033MF 10% 25V	
	C 8	QCC11EK-333Z	C.CAPACITOR	.033MF 10% 25V	
	C 9	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 10	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 11	QCC11EK-273Z	C.CAPACITOR	.027MF 10% 25V	
	C 101	QERF1HM-474ZM	E.CAPACITOR	.47MF 20% 50V	
	C 102	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 103	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 104	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 105	QERFOJM-476ZN	E.CAPACITOR	47MF 20% 6.3V	
	C 121	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 122	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 123	QCVB1CM-822Y	C.CAPACITOR	8200PF 20% 16V	
	C 124	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
	C 125	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 126	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
	C 127	QCXB1CM-562Y	C.CAPACITOR	5600PF 20% 16V	
	C 128	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 129	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 130	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 151	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 152	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 153	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 201	QERF1HM-474ZM	E.CAPACITOR	.47MF 20% 50V	
	C 202	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 203	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 204	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 205	QERFOJM-476ZN	E.CAPACITOR	47MF 20% 6.3V	
	C 221	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 222	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 223	QCVB1CM-822Y	C.CAPACITOR	8200PF 20% 16V	
	C 224	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
	C 225	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 226	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
	C 227	QCXB1CM-562Y	C.CAPACITOR	5600PF 20% 16V	
	C 228	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 229	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 230	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 251	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 252	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 253	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 351	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 352	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 353	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 451	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 452	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 453	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 701	VYH7653-001	IC HOLDER		
	C 701	QCT30UJ-270Y	C.CAPACITOR	27PF 5% 50V	
	C 702	QCT05CH-220	C.CAPACITOR	22PF 5% 50V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 703	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 704	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 705	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 706	QCFB1HZ-104Y	C.CAPACITOR	.10MF +80:-20%	
	C 707	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 751	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 801	QERF1AM-227Z	E.CAPACITOR	220MF 20% 10V	
	C 802	QETNOJM-228ZM	E.CAPACITOR	2200MF 20% 6.3V	
	C 803	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 851	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 852	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 853	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 901	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 921	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 921	VYH7653-002	IC HOLDER		
	C 922	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C 923	QER40JM-107	E.CAPACITOR	100MF 20% 6.3V	
	C 924	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 951	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 952	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 953	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 954	QETB1CM-228	E.CAPACITOR	2200MF 20% 16V	
	C 955	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 971	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 972	QERF1AM-476Z	E.CAPACITOR	47MF 20% 10V	
	CJ702	MA-Y-D-10-MA-03	CONNECTOR WIRE		
	CJ751	VMJ4035-001	MINI DIN JACK		
	CJ921	VMJ3022-001	PIN JACK	LINE OUT	
	CJ981	QNZ0002-001	16P CONNECTOR		
	CN701	VMC0319-001	CONNECTOR	FRONT PANEL	
	CN721	VMC0314-S06	CONNECTOR	FOR MECHA	
	CN751	VMC0135-007	CONNECTOR	FOR CHANGER	
	CN901	VMC0314-S06	CONNECTOR		
	CP701	VMC0320-001	CONNECTOR		
	CP721	VMC0314-P06	CONNECTOR		
	CP722	VMC0282-R06	CONNECTOR		
	CP751	VMC0136-007	CONNECTOR		
	CP901	VMC0314-P06	CONNECTOR		
	CP902	VMC0282-005	CONNECTOR		
	D 1	1SS133	SI DIODE		
	D 2	1SS133	SI DIODE		
	D 351	1SS133	SI DIODE		
	D 451	1SS133	SI DIODE		
	D 703	1SS133	SI DIODE		
	D 704	1SS133	SI DIODE		
	D 705	1SS133	SI DIODE		
	D 706	1SS133	SI DIODE		
	D 707	1SS133	SI DIODE		
	D 708	1SS133	SI DIODE		
	D 709	1SS133	SI DIODE		
	D 710	1SS133	SI DIODE		
	D 711	1SS133	SI DIODE		
	D 712	1SS133	SI DIODE		
	D 713	MTZ5.6JB	ZENER DIODE		
	D 714	MTZ5.6JB	ZENER DIODE		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 715	MTZ5.6JB	ZENER DIODE		
	D 716	MTZ5.6JB	ZENER DIODE		
	D 717	MTZ5.6JB	ZENER DIODE		
	D 718	MTZ5.6JB	ZENER DIODE		
	D 719	MTZ5.6JB	ZENER DIODE		
	D 720	MTZ5.6JB	ZENER DIODE		
	D 721	MTZ5.6JB	ZENER DIODE		
	D 722	1SS133	SI DIODE		
	D 723	MTZ5.1JB	ZENER DIODE		
	D 724	1SS133	SI DIODE		
	D 725	DSK10C-E	DIODE		
	D 771	SLN-210MTT12KM	LED		
	D 772	SLN-210MTT12KM	LED		
	D 773	SLN-210MTT12KM	LED		
	D 774	SLR-342MWA49	LED		
	D 775	SLR-342MWA49	LED		
	D 776	SLR-342MWA49	LED		
	D 777	SLR-342MWA49	LED		
	D 778	SLR-342MWA49	LED		
	D 779	SLR-342MWA49	LED		
	D 780	SLR-342MWA49	LED		
	D 781	SLR-342MWA49	LED		
	D 782	SLR-342MWA49	LED		
	D 783	SLR-342MWA49	LED		
	D 784	SLR-342MWA49	LED		
	D 801	RB721Q	DIODE		
	D 851	MTZ10JAT-77	ZENER DIODE		
	D 951	1N5401TM	SI DIODE		
	FOR I	VYH7653-001	IC HOLDER		
	IC701	UPD17005GF-E38	IC		
	IC751	HD74HC126P	IC		
	IC801	TDA3603P-S	IC		
	IC901	UPC1228HA	IC		
	IC921	TEA6320T	IC		
	IC951	HA13157	IC		
	J 1	VMJ4045-101	ANT.SOCKET		
	L 1	VQP0018-4R7	INDUCTOR		
	L 801	VQP0018-470	INDUCTOR		
	L 951	QQR0528-001	INDCTER		
	LCD 1	QLD0005-001	LED		
	PL701	QLL0002-001	LAMP		
	PL702	QLL0002-001	LAMP		
	PL771	QLL0002-001	LAMP		
	Q 1	DTC114ESTP	TRANSISTOR		
	Q 2	2SA933S(RS)	TRANSISTOR		
	Q 3	DTC114ESTP	TRANSISTOR		
	Q 351	2SC1740S(R,S)	TRANSISTOR		
	Q 451	2SC1740S(R,S)	TRANSISTOR		
	Q 701	DTA144ES	TRANSISTOR		
	Q 702	DTC114ESTP	TRANSISTOR		
	Q 703	DTA114ES	TRANSISTOR		
	Q 801	DTC114ESTP	TRANSISTOR		
	Q 802	2SB1322(RS)	TRANSISTOR		
	Q 851	2SC1740S(R,S)	TRANSISTOR		
	Q 852	2SC1740S(R,S)	TRANSISTOR		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 931	2SA933S(RS)	TRANSISTOR		
	Q 932	2SB1322(RS)	TRANSISTOR		
	Q 933	DTC114ESTP	TRANSISTOR		
	Q 971	DTA114ES	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 9	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 10	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 101	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 102	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 103	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 121	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 122	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 123	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 124	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 125	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 126	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 151	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 152	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 153	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 154	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 201	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 202	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 203	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 221	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 222	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 223	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 224	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 225	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 226	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 251	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 252	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 253	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 254	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 351	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 352	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 353	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 354	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 355	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 356	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 357	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 451	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 452	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 453	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 454	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 455	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 456	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 457	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 701	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 702	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 703	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 704	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 705	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 706	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 707	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 708	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 709	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 710	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 711	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 712	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 713	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 714	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 751	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 752	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 753	QRD161J-473	CARBON RESISTOR	47K 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	47K 5% 1/6W	
	R 758	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 759	QRD161J-102	CARBON RESISTOR	1.0K 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-473	CARBON RESISTOR	47K 5% 1/6W	
	R 771	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 772	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 773	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R 774	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 775	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R 776	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 777	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	R 778	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 779	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 780	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 801	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 802	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 803	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 851	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 852	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 853	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 854	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 855	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 901	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 921	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 922	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
	R 931	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 932	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 933	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 951	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 971	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	S 771	QSQ4B11-V02	TACT SWITCH		
	S 772	QSQ4B11-V02	TACT SWITCH		
	S 773	QSQ4B11-V02	TACT SWITCH		
	S 774	QSQ4B11-V02	TACT SWITCH		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S 775	QSQ4B11-V02	TACT SWITCH		
	S 776	QSQ4B11-V02	TACT SWITCH		
	S 777	QSQ4B11-V02	TACT SWITCH		
	S 778	QSQ4B11-V02	TACT SWITCH		
	S 779	QSQ4B11-V02	TACT SWITCH		
	S 780	QSQ4B11-V02	TACT SWITCH		
	S 781	QSQ4B11-V02	TACT SWITCH		
	S 782	QSQ4B11-V02	TACT SWITCH		
	S 783	QSQ4B11-V02	TACT SWITCH		
	S 784	QSQ4B11-V02	TACT SWITCH		
	S 785	QSQ4B11-V02	TACT SWITCH		
	S 786	QSQ4B11-V02	TACT SWITCH		
	S 787	QSQ4B11-V02	TACT SWITCH		
	S 788	QSQ4B11-V02	TACT SWITCH		
	S 789	QSQ4B11-V02	TACT SWITCH		
	S 790	QSQ4B11-V02	TACT SWITCH		
	TU 1	QAU0003-001	TUNNER PAC		
	X 701	VCX5026-001Z	CRYSTAL		

■ Main Board (KS-RT220E/G)

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	BPF 1	EQF0201-006	B.P.FILTER		
	C 2	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 3	QERF1HM-224ZM	E.CAPACITOR	.22MF 20% 50V	
	C 4	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 5	QCC11EK-123Z	C.CAPACITOR	.012MF 10% 25V	
	C 6	QCC11EK-183ZV	C.CAPACITOR	.018MF 10% 25V	
	C 7	QCC11EM-223V	C.CAPACITOR	.022MF 10% 25V	
	C 8	QCC11EM-223V	C.CAPACITOR	.022MF 10% 25V	
	C 9	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 10	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 11	QCC11EK-273Z	C.CAPACITOR	.027MF 10% 25V	
	C 15	QCFB1HZ-473Y	C.CAPACITOR	.047MF +80:-20%	
	C 101	QERF1HM-474ZM	E.CAPACITOR	.47MF 20% 50V	
	C 102	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 103	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 104	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
	C 105	QERF0JM-476ZN	E.CAPACITOR	47MF 20% 6.3V	
	C 121	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 122	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 123	QFLA1HJ-822ZM	M.CAPACITOR	8200PF 5% 50V	
	C 124	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
	C 125	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 126	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
	C 127	QFLA1HJ-562ZM	M.CAPACITOR	5600PF 5% 50V	
	C 128	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 129	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 130	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 151	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 201	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C 202	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 203	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 204	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
	C 205	QETB0JM-476	E CAPACITOR	47MF 20% 6.3V	
	C 221	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 222	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 223	QFLA1HJ-822ZM	M.CAPACITOR	8200PF 5% 50V	
	C 224	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
	C 225	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 226	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
	C 227	QFLA1HJ-562ZM	M.CAPACITOR	5600PF 5% 50V	
	C 228	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 229	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 230	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 251	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 351	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 451	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 701	QCT05CH-220	C.CAPACITOR	22PF 5% 50V	
	C 701	VYH7653-001	IC HOLDER		
	C 702	QCT05CH-220	C.CAPACITOR	22PF 5% 50V	
	C 704	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 705	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 706	QCFB1HZ-104Y	C.CAPACITOR	.10MF +80:-20%	
	C 707	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 751	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 801	QERF1AM-227Z	E.CAPACITOR	220MF 20% 10V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 802	QETN0JM-228ZM	E.CAPACITOR	2200MF 20% 6.3V	
	C 804	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 851	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 852	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 853	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 901	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 921	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 921	VYH7653-002	IC HOLDER		
	C 922	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C 923	QER40JM-107	E.CAPACITOR	100MF 20% 6.3V	
	C 924	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 925	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 951	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 952	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 953	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 954	QETB1CM-228	E.CAPACITOR	2200MF 20% 16V	
	C 955	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 971	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 972	QERF1AM-476Z	E.CAPACITOR	47MF 20% 10V	
	C 973	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
	CJ702	MA-Y-D-10-MA-03	CONNECTOR WIRE		
	CJ751	VMJ4035-001	MINI DIN JACK		
	CJ921	VMJ3022-001	PIN JACK	LINE OUT	
	CJ981	QNZ0002-001	16P CONNECTOR		
	CN701	VMC0319-001	CONNECTOR	FRONT PANEL	
	CN721	VMC0314-S06	CONNECTOR	FOR MECHA	
	CN751	VMC0135-007	CONNECTOR	FOR CHANGER	
	CN901	VMC0314-S06	CONNECTOR		
	CP701	VMC0320-001	CONNECTOR		
	CP721	VMC0314-P06	CONNECTOR		
	CP722	VMC0282-R06	CONNECTOR		
	CP751	VMC0136-007	CONNECTOR		
	CP901	VMC0314-P06	CONNECTOR		
	CP902	VMC0282-005	CONNECTOR		
	D 1	1SS119-041	DIODE		
	D 2	1SS119-041	DIODE		
	D 351	1SS119-041	DIODE		
	D 451	1SS119-041	DIODE		
	D 702	1SS119-041	DIODE		
	D 705	1SS119-041	DIODE		
	D 706	1SS119-041	DIODE		
	D 707	1SS119-041	DIODE		
	D 708	1SS119-041	DIODE		
	D 709	1SS119-041	DIODE		
	D 710	1SS119-041	DIODE		
	D 711	1SS119-041	DIODE		
	D 712	1SS119-041	DIODE		
	D 713	MTZ5.6JB	ZENER DIODE		
	D 714	MTZ5.6JB	ZENER DIODE		
	D 715	MTZ5.6JB	ZENER DIODE		
	D 716	MTZ5.6JB	ZENER DIODE		
	D 717	MTZ5.6JB	ZENER DIODE		
	D 718	MTZ5.6JB	ZENER DIODE		
	D 719	MTZ5.6JB	ZENER DIODE		
	D 720	MTZ5.6JB	ZENER DIODE		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 721	MTZ5.6JB	ZENER DIODE		
	D 724	1SS119-041	DIODE		
	D 725	DSK10C-E	DIODE		
	D 726	RB721Q	DIODE		
	D 771	SLN-210PCT12	DIODE		
	D 772	SLN-210PCT12	DIODE		
	D 773	SLN-210PCT12	DIODE		
	D 774	SLR-342PCT32	DIODE		
	D 775	SLR-342PCT32	DIODE		
	D 776	SLR-342PCT32	DIODE		
	D 777	SLR-342PCT32	DIODE		
	D 778	SLR-342PCT32	DIODE		
	D 779	SLR-342PCT32	DIODE		
	D 780	SLR-342PCT32	DIODE		
	D 781	SLR-342PCT32	DIODE		
	D 782	SLR-342PCT32	DIODE		
	D 783	SLR-342PCT32	DIODE		
	D 784	SLR-342PCT32	DIODE		
	D 801	RB721Q	DIODE		
	D 802	MTZJT-918.2C	ZENER DIODE		
	D 851	MTZ10JAT-77	ZENER DIODE		
	D 951	1N5401M	SI DIODE		
	D 971	MTZ11JB	ZENER DIODE		
	FOR I	VYH7653-001	IC HOLDER		
	IC701	UPD17005GF-E38	IC		
	IC751	HD74HC126P	IC		
	IC801	TDA3603P-S	IC		
	IC901	UPC1228HA	IC		
	IC921	TEA6320T	IC		
	IC951	HA13157	IC		
	J 1	VMJ4045-101	ANT.SOCKET		
	L 1	VQP0018-4R7	INDUCTOR		
	L 801	VQP0018-470	INDUCTOR		
	L 951	QQR0528-001	CHOKE COIL		
	LCD 1	QLD0005-001			
	PL701	QLL0003-001	LAMP		
	PL702	QLL0003-001	LAMP		
	PL771	QLL0003-001	LAMP		
	Q 1	DTC114ESTP	TRANSISTOR		
	Q 2	2SA933AS(RS)-T	TRANSISTOR		
	Q 3	DTC114ESTP	TRANSISTOR		
	Q 351	2SC1740S(R,S)	TRANSISTOR		
	Q 451	2SC1740S(R,S)	TRANSISTOR		
	Q 701	DTA144ESATP	D.TRANSISTOR		
	Q 702	DTC114ESTP	TRANSISTOR		
	Q 703	DTA114ES	TRANSISTOR		
	Q 801	DTC114ESTP	TRANSISTOR		
	Q 802	2SB1322(RS)	TRANSISTOR		
	Q 851	2SC1740S(R,S)	TRANSISTOR		
	Q 852	2SC1740S(R,S)	TRANSISTOR		
	Q 931	2SA933AS(RS)-T	TRANSISTOR		
	Q 932	2SB1322(RS)	TRANSISTOR		
	Q 933	DTC114ESTP	TRANSISTOR		
	Q 971	DTA114ES	TRANSISTOR		
	R 1	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 2	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 3	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 4	QRD161J-433	CARBON RESISTOR	43K 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 9	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 10	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 101	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 102	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 103	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 121	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 122	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 123	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 124	QRD161J-432	CARBON RESISTOR	4.3K 5% 1/6W	
	R 125	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 126	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 151	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 152	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 201	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 202	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 203	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 221	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 222	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 223	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 224	QRD161J-432	CARBON RESISTOR	4.3K 5% 1/6W	
	R 225	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 226	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 251	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 252	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 351	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 352	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 355	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 356	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 357	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 451	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 452	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 455	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 456	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 457	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 701	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 702	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 703	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 704	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 705	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 706	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 707	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 710	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 711	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 713	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 714	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 716	QRD161J-181	CARBON RESISTOR	180 5% 1/6W	
	R 751	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 752	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 753	QRD161J-473	CARBON RESISTOR	47K 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	47K 5% 1/6W	
	R 758	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 759	QRD161J-102	CARBON RESISTOR	1.0K 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-473	CARBON RESISTOR	47K 5% 1/6W	
	R 771	QRD167J-511	CARBON RESISTOR	510 5% 1/6W	
	R 772	QRD161J-431Y	CARBON RESISTOR	430 5% 1/6W	
	R 773	QRD167J-511	CARBON RESISTOR	510 5% 1/6W	
	R 774	QRD167J-751	CARBON RESISTOR	750 5% 1/6W	
	R 775	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 776	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 777	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 778	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 779	QRD161J-431Y	CARBON RESISTOR	430 5% 1/6W	
	R 780	QRD167J-511	CARBON RESISTOR	510 5% 1/6W	
	R 801	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 802	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 803	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 804	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 805	QRD161J-203	CARBON RESISTOR	20K 5% 1/6W	
	R 851	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 852	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 853	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 854	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 855	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 901	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 921	QRD161J-363	CARBON RESISTOR	36K 5% 1/6W	
	R 922	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
	R 931	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 932	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 933	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 951	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 971	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 972	QRD161J-470	CARBON RESISTOR	47 5% 1/6W	
	S 771	QSP1A11-V15Z	TACT SWITCH		
	S 772	QSP1A11-V15Z	TACT SWITCH		
	S 773	QSP1A11-V15Z	TACT SWITCH		
	S 774	QSP1A11-V15Z	TACT SWITCH		
	S 775	QSP1A11-V15Z	TACT SWITCH		
	S 776	QSP1A11-V15Z	TACT SWITCH		
	S 777	QSP1A11-V15Z	TACT SWITCH		
	S 778	QSP1A11-V15Z	TACT SWITCH		
	S 779	QSP1A11-V15Z	TACT SWITCH		
	S 780	QSP1A11-V15Z	TACT SWITCH		
	S 781	QSP1A11-V15Z	TACT SWITCH		
	S 782	QSP1A11-V15Z	TACT SWITCH		
	S 783	QSP1A11-V15Z	TACT SWITCH		
	S 784	QSP1A11-V15Z	TACT SWITCH		
	S 785	QSP1A11-V15Z	TACT SWITCH		
	S 786	QSP1A11-V15Z	TACT SWITCH		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S 787	QSP1A11-V15Z	TACT SWITCH		
	S 788	QSP1A11-V15Z	TACT SWITCH		
	S 789	QSP1A11-V15Z	TACT SWITCH		
	S 790	QSP1A11-V15Z	TACT SWITCH		
	TU 1	QAU0003-001	TUNNER PAC		
	X 701	QAX0234-001Z	CRYSTAL		

13. Packing

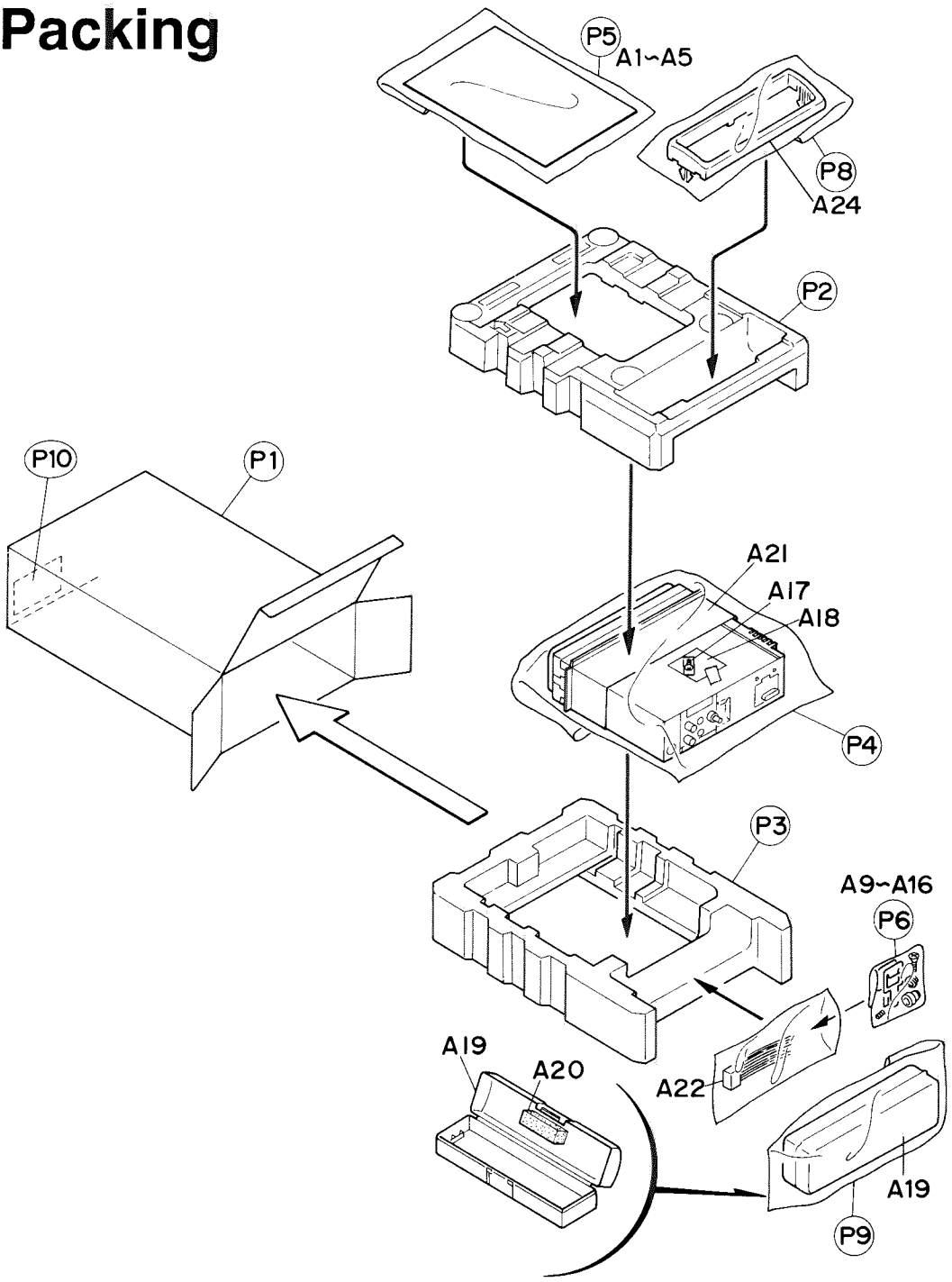
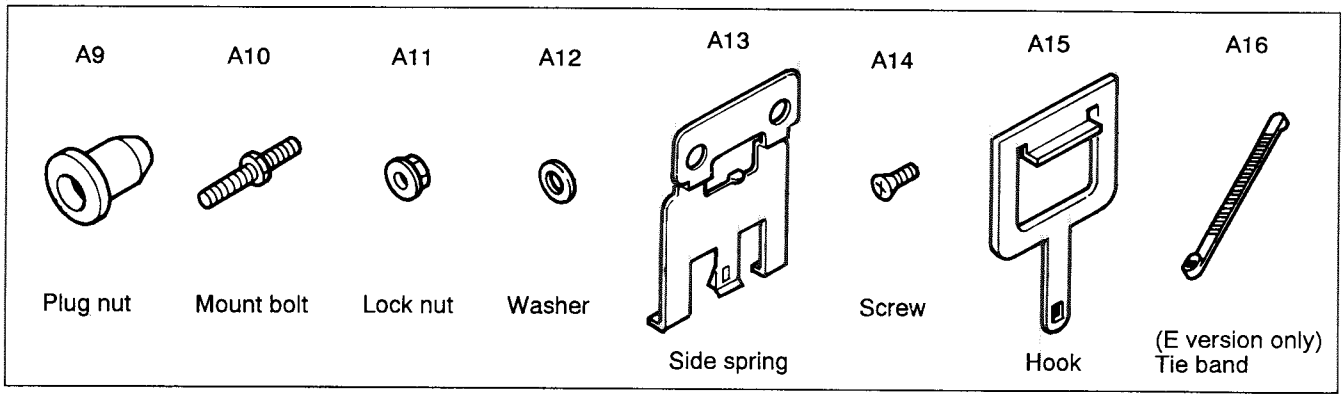


Fig. 13-1

■ **Accessories: SCREW KIT 1 break down**



■ Packing Parts List

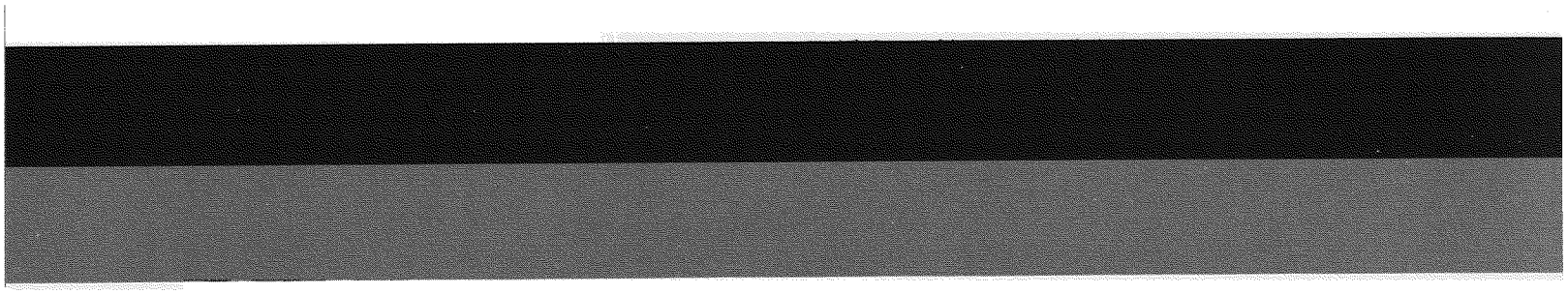
BLOCK NO. M3MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	FSPE3001-024	CARTON		1		
	P 2	FSPH1003-002	CUSHION(TOP)		1		
	P 3	FSPH1004-001	CUSHION(BOTTOM)		1		
	P 4	VPE3005-066	POLY BAG	SET(270X450X0.0	1		
	P 5	QPGA017-02505	POLY BAG	INST.BOOK	1		
	P 6	QPGA008-01205	POLY BAG	FOR SCREW KIT1	1		
	P 8	QPGA010-03003	POLY BAG	FOR TRIM PLATE	1		
	P 9	QPGA010-03003	POLY BAG	FOR HARD CASE	1		
	P 10	----------	CARTON LABEL		1		

■ Accessories

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	FSUN3022-211S	INSTRUCTIONS		1	E	
		FSUN3022-451S	INSTRUCTIONS		1	E	
		FSUN3022-481S	INSTRUCTIONS		1	E	
		FSUN3022-631S	INSTRUCTIONS		1	J	
	A 2	VNC2400-090	CAUTION SHEET		1		
	A 3	BT-51009-2S	WARRANTY CARD	FOR USA ONLY	1	J	
		BT-52001-3S	WARRANTY CARD	FOR CANADA ONLY	1	J	
	A 4	BT-20071B	SVC CENTER LIST	FOR CANADA ONLY	1	J	
		BT-20137	SERVICE NETWORK		1	J	
	A 5	VND3050-002	IDENTITY CARD	FOR EUROPE ONLY	1	E	
	A 9	VKZ4027-002	PLUG NUT		1		
	A 10	VKH4871-001	MOUNT BOLT		1		
	A 11	VKZ4328-001	LOCK NUT	FOR M5	1		
	A 12	WNS5000Z	WASHER		1		
	A 13	VKY3124-001	SIDE SPRING		2		
	A 14	SSSP4006Z	SCREW	FOR SIDE SPRING	4		
	A 15	VKL7233-001	HOOK		2		
	A 16	E308918-001	TIE BAND		1	E	
	A 17	SPSJ1725M	MINI SCREW		1		
	A 18	VND4619-005	SHEET		1		
	A 19	VJB2014-002	HARD CASE		1		
	A 20	VYSH118-002	SPACER		1		
	A 21	VKM3819-001	MOUNTING SLEEVE		1		
	A 22	QAM0015-001	16P CORD ASSY		1	E	
		QAM0013-001	16P CORD ASSY		1	J	
	A 24	FSJD2004-003	TRIM PLATE		1		
	KIT 1	KSRT80RK-SCREW1	SCREW PARTS KIT	A9-A15	1	J	
		KSRT220E-SCREW1	SCREW PARTS KIT	A9-A16	1	E	
	KIT 2	KSRT75RK-SCREW2	SCREW PARTS KIT	A17,A18	1		



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