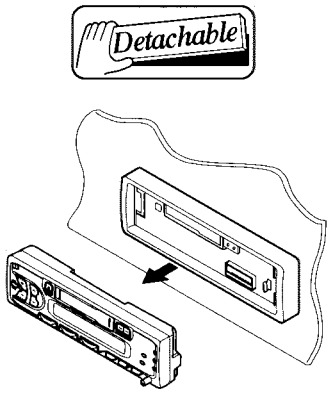
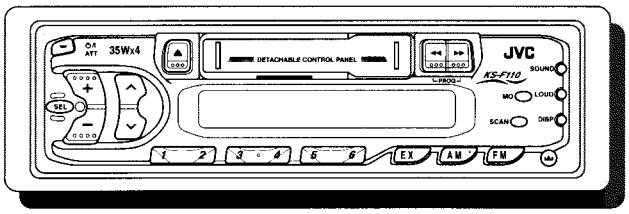
JVC

SERVICE MANUAL

CASSETTE RECEIVER

KS-F110/KS-FX11





Cassette Mechanism CDS-36SJ
SYSTEM CPU LC72362N
HEAD AMP UPC1228HA
PLAYBACK HEAD 1-0036-7016S

Area Suffix (KS-FX11)
J ..... Northern America U.....Other Areas

Area Suffix (KS-F110)
E ..... Continental Europe J ..... Northern America U.....Other Areas

Contents

No.49488
Dsc. 1998

Safety Precaution

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

■**Feature Check List**

Features \ Model	KS-F110 J/U	KS-F110 E	KS-FX11 J/U
Changer Control	———	———	○
Line Output	———	○	———
Illumination Color	Green	Amber	Green

JVC

VICTOR COMPANY OF JAPAN, LIMITED

JVC

Instructions

ENGLISH

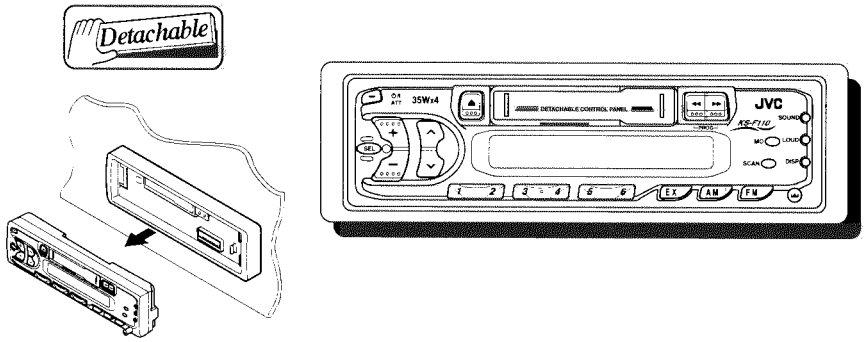
ESPAÑOL

FRANÇAIS

CASSETTE RECEIVER KS-F110

RECEPTOR-REPRODUCTOR DE CASSETTE KS-F110

RADIOCASSETTE KS-F110



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

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. _____

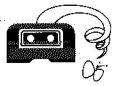
Serial No. _____

FSUN3067-631
[J]

KS-F110/KS-FX11

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

CONTENTS

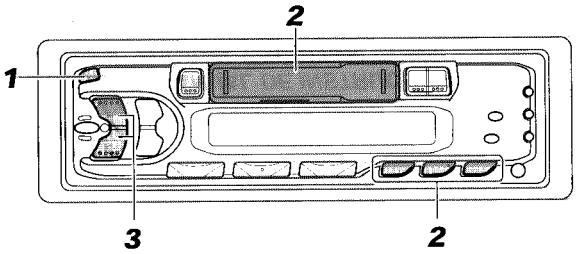


BEFORE USE

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

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

BASIC OPERATIONS



Note:
When you use this unit for the first time, set the built-in clock correctly, see page 13.

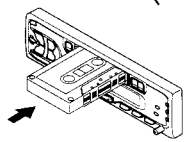
1

Turn on the power.

Notes on One-Touch Operation:
- *When you select tuner as a source in step 2 below, the power automatically comes on. You do not have to press this button to turn on the power.*
- *If the cassette is already in the cassette compartment, tape play starts automatically.*

2

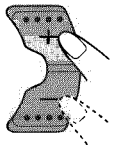
Play the source.



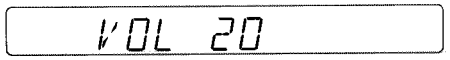
To operate the tuner, see pages 4 – 8.
To operate the tape deck, see page 9.

EX (extra) button: *To use this button, you need to preset your favorite station in advance. For details, see pages 6 – 7.*

3



Adjust the volume.



Volume level appears.

4

Adjust the sound as you want (see pages 10 – 12).

To drop the volume in a moment

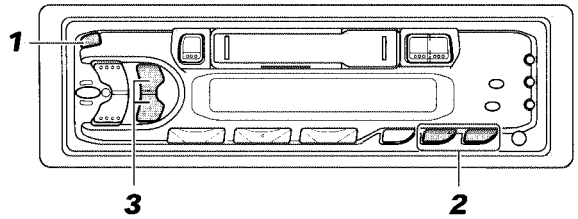
Press ⏻/I ATT briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.
To resume the previous volume level, press the button briefly again.

To turn off the power

Press ⏻/I ATT for more than 1 second.

RADIO OPERATIONS

Listening to the radio

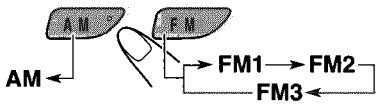


1

Turn on the power.

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

2

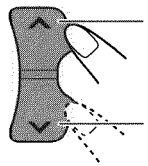


Select the band (FM1, FM2, FM3 or AM).

You can select any one of FM1, FM2, and FM3 to listen to an FM station.

Note:
When a cassette is in the cassette compartment, you cannot select the tuner. Be sure to eject the cassette from the cassette compartment to listen to the radio.

3



To search stations of higher frequencies.

To search stations of lower frequencies.

Start searching a station.

When a station is received, searching stops.

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

To tune in a particular frequency manually:

1 Press FM or AM to select the band.
2 Press and hold ∧ or ∨ until "M" starts flashing on the display.
Now you can manually change the frequency while "M" is flashing.
3 Press ∧ or ∨ repeatedly until the frequency you want is reached.
• If you hold down the button, the frequency keeps changing until you release the button.

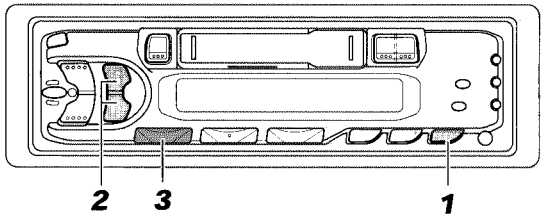
Storing stations in memory

You can store the broadcasting stations in memory.

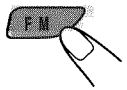
Storing stations manually

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

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

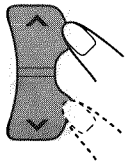


1



Select the FM1 band.

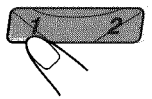
2



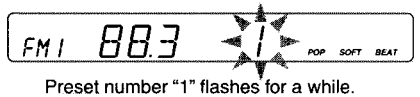
Tune into a station of 88.3 MHz.

See page 4 to tune into a station.

3



Press and hold the button for more than 2 seconds.



Preset number "1" flashes for a while.

4

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

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

ENGLISH

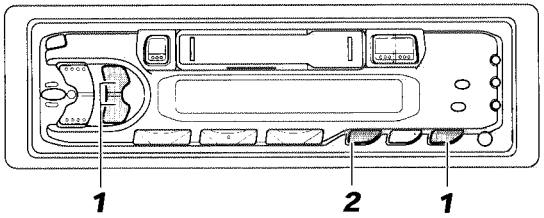
KS-F110/KS-FX11

1-5

Storing your favorite stations into the one-touch operation button (EX — extra)

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

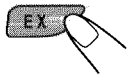
EXAMPLE: Storing an FM station of 88.3 MHz into the one-touch operation button (EX)



1

Follow the steps **1** and **2** on page 5.

2



Press and hold the button for more than 2 seconds.

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

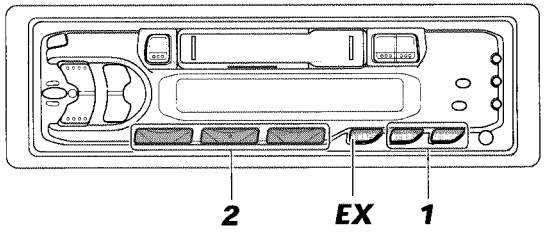
Notes:

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

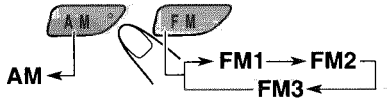
Tuning into a preset station

You can easily tune into a preset station.

Remember that you must store stations first. If you have not stored them yet, see pages 5 and 6.

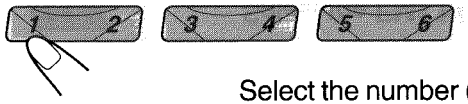


1



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

2



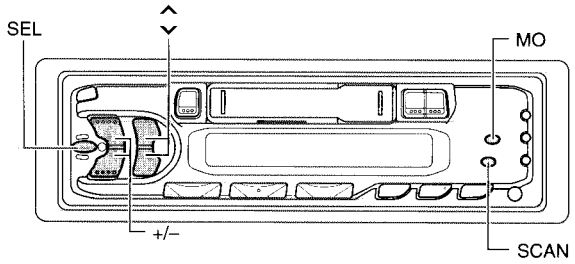
Select the number (1 – 6) for the preset station you want.

To tune in the favorite station

The unit automatically turns on (if it has been off).
Your favorite station is tuned in — except when the tape is playing.

- *If you press the button again, the last received station will be tuned in.*

Other convenient tuner functions



Scanning broadcast stations

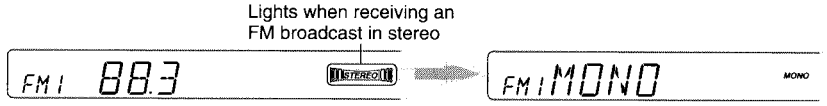
When you press SCAN while listening to the radio, station scanning starts. Each time a broadcast is tuned in, scanning stops for about 5 seconds (tuned frequency number flashes on the display), and you can check what program is now being broadcast.

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

Selecting FM reception sound

When an FM stereo broadcast is hard to receive:

Press MO while listening to an FM stereo broadcast. The sound you hear becomes monaural but reception will be improved.



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

Changing the AM/FM channel intervals

When using this unit in an area other than North or South America:

When this unit is shipped from the factory, the channel intervals are set to 10 kHz for AM and 200 kHz for FM. You can change the channel intervals by following the procedure below.

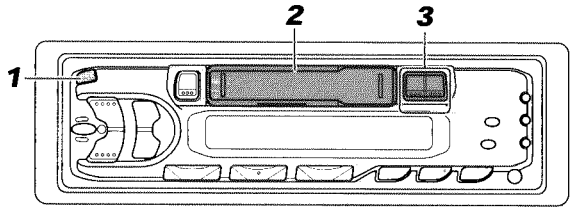
1 Press SEL (select) for more than 2 seconds.
"CLOCK H," "CLOCK M" or "AREA" appears on the display.
2 If "AREA" does not appear, press ∧ or ∨ until it appears.
3 Press +.
"AREA EU" appears and the channel intervals are set to 9 kHz for AM and 50 kHz (for manual tuning) / 100 kHz (for searching) for FM.

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

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

TAPE OPERATIONS

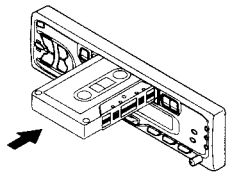
Listening to a tape



1

Turn on the power.

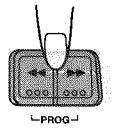
2



Insert a cassette.

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

3



Select the tape direction.

• *Press the both buttons at the same time.*

Each time you press the button, the tape direction changes alternatively – forward (TAPE ›››) and reverse (TAPE ‹‹‹).

To stop play and eject the cassette

Press ⏏.
Tape play stops and the cassette ejects from the cassette compartment.
You can hear the last received station.
• *You can also eject the cassette with the unit turnd off.*

To fast-wind a tape

Press either ►► or ◄◄.
The tape will be wound in the direction of the arrows (►► or ◄◄).
To restart playback, press ►► or ◄◄ lightly.

SOUND ADJUSTMENTS

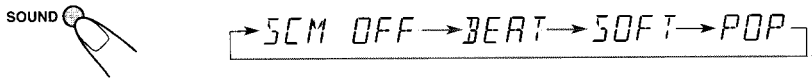
Turning on/off the loudness function

The human ear is less sensitive to low and high frequencies at low volumes.
The loudness function can boost these frequencies to produce a well-balanced sound at low volume levels.
Each time you press LOUD, the loudness function turns on/off alternatively.

Selecting preset sound modes

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

Each time you press SOUND, the sound mode changes as follows.



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

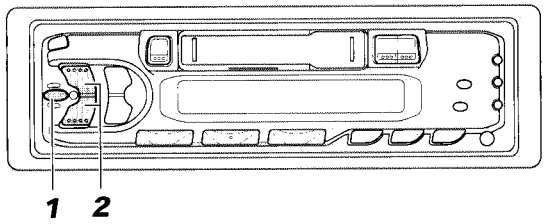
Notes:

- *You can adjust the preset sound mode to your preference, and store it in memory. If you want to adjust and store your original sound mode, see "Storing your own sound adjustments" on page 12.*
- *To adjust only the bass and treble reinforcement levels to your preference, see "Adjusting the sound" on page 11.*
- *When one of the sound modes is selected, it is shown on the display as follows:*

For example, when "POP" is selected.

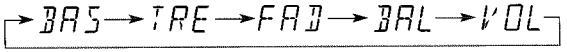
Adjusting the sound

You can adjust the treble/bass sound and the speaker balance.



1

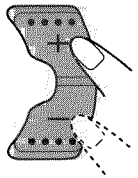
Select the item you want to adjust.



Indication	To do:	Range
BAS (bass)	Adjust the bass	–6 (min.) — +6 (max.)
TRE (treble)	Adjust the treble	–6 (min.) — +6 (max.)
FAD (Fader)*	Adjust the front and rear speaker balance	R6 (rear only) — F6 (front only)
BAL (Balance)	Adjust the left and right speaker balance	L6 (left only) — R6 (right only)
VOL (Volume)	Adjust the volume	00 (min.) — 50 (max.)

Note:
* *If you are using a two-speaker system, set the fader level to "00" (center).*

2

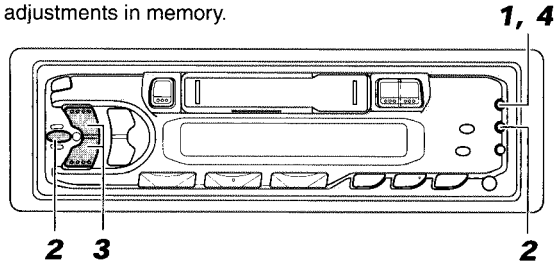


Adjust the level.

Note:
Normally the + and – buttons work as the volume control buttons. So you do not have to select "VOL" to adjust the volume level.

Storing your own sound adjustments

You can adjust the sound modes (BEAT, SOFT, POP: see page 10) to your preference and store your own adjustments in memory.



1 SOUND

Call up the sound mode you want to adjust.
See page 10 for details.

Within 5 seconds

2 SEL

To adjust the bass or treble sound level
Select "BAS" or "TRE."

LOUD

To turn on or off the loudness function
Each time you press LOUD, the loudness function turns on and off alternatively. (→ go to step 4)

Within 5 seconds

3

Adjust the bass or treble level.
See page 11 for details.

Within 5 seconds

4 SOUND

Press and hold SOUND until the sound mode you have selected in step **1** flashes on the display.
Your setting is stored in memory.

5

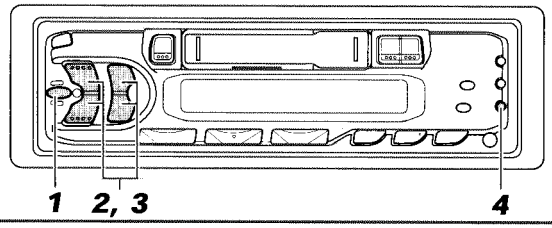
Repeat the same procedure to store other settings.

To reset to the factory settings

Repeat the same procedure and reassign the preset values listed in the table on page 10.

OTHER MAIN FUNCTIONS

Setting the clock



1 SEL

Press and hold the button for more than 2 seconds.
"CLOCK H," "CLOCK M" or "AREA" appears on the display.

2 1. 2.

Set the hour.
1. Select "CLOCK H" if not shown on the display.

→CLOCK H→CLOCK M→AREA

2. Adjust the hour.

3 1. 2.

Set the minute.
1. Select "CLOCK M."

→CLOCK H→CLOCK M→AREA

2. Adjust the minute.

4 DISP

Start the clock.

To check the current clock time (changing the display mode)

Press DISP repeatedly. Each time you press the button, the display mode changes as follows.

During tuner operation:	During tape operation:
Frequency ⟷ Clock	Play mode ⟷ Clock

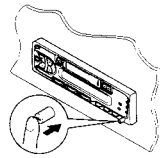
Detaching the control panel

You can detach the control panel when leaving the car.
When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

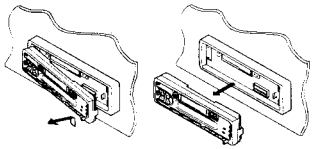
How to detach the control panel

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

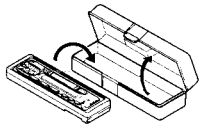
1 Unlock the control panel.



2 Lift and pull the control panel out of the unit.

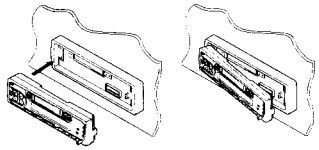


3 Put the detached control panel into the provided case.

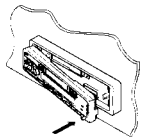


How to attach the control panel

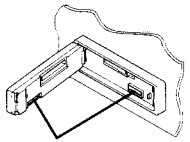
1 Insert the left side of the control panel into the groove on the panel holder.



2 Press the right side of the control panel to fix it to the panel holder.



Note on cleaning the connectors:
If you frequently detach the control panel, the connectors will deteriorate.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.

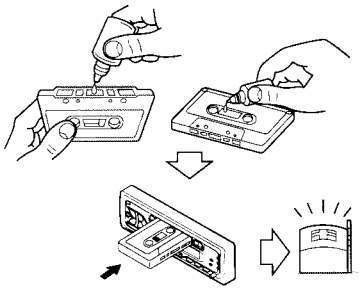


Connectors

To extend the lifetime of the unit

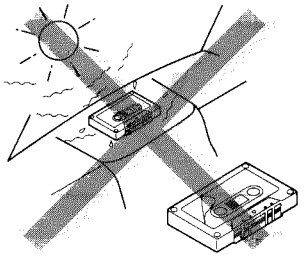
This unit requires very little attention, but you will be able to extend the life of the unit if you follow the instructions below.

To clean the heads



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

To keep the tape clean



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

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

TROUBLESHOOTING

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

Symptoms	Causes	Remedies
• A cassette tape cannot be inserted.	You have tried to insert a cassette in the wrong way.	Insert the cassette with the exposed tape facing right.
• Cassette tapes become hot.	This is not a malfunction.	———
• Tape sound is at very low level and sound quality is degraded.	The tape head is dirty.	Clean it with a head cleaning tape.
• Sound is sometimes interrupted.	Connections are not good.	Check the cords and connections.
• Sound cannot be heard from the speakers.	The volume control is turned to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
• The unit does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	While holding SEL, press ⏻/I ATT for more than 2 seconds to reset the unit. (The clock setting and preset stations stored in memory are erased.)

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

TUNER SECTION

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

[FM Tuner]
Usable Sensitivity: 11.3 dBf (1.0 μV/75 Ω)
50 dB Quieting Sensitivity:
16.3 dBf (1.8 μV/75 Ω)
Alternate Channel Selectivity (400 kHz):
65 dB
Frequency Response: 40 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 150 mm
(7-3/16" x 2-1/16" x 5-15/16")
Panel Size: 188 x 58 x 14 mm
(7-7/16" x 2-5/16" x 5/8")
Mass: 1.3 kg (2.9 lbs) (excluding accessories)

Design and specifications subject to change without notice.

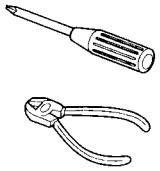
If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.

KS-F110

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

FSUN3067-T631
[J]

0998HISFLEJES
EN, SP, FR



ENGLISH

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

INSTALLATION (IN-DASH MOUNTING)

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

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

2 Remove the trim plate.

3 Remove the sleeve after disengaging the sleeve locks.

① Stand the unit.

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

② Insert the 2 handles between the unit and the sleeve, as illustrated, to disengage the sleeve locks.

③ Remove the sleeve.

Note: Be sure to keep the handles for future use after installing the unit.

4 Install the sleeve in the dashboard.

* After the sleeve is correctly installed in the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as illustrated.

5 Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.

6 Do the required electrical connections explained on the back of this instructions.

7 Slide the unit into the sleeve until it is locked.

8 Attach the trim plate.

9 Attach the control panel.

ESPAÑOL

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

INSTALACION (MONTAJE EN EL TABLERO DE INSTRUMENTOS)

- La siguiente ilustración muestra una instalación típica. Sin embargo usted deberá efectuar los ajustes correspondientes a su automóvil. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

1 Antes de instalar: Presione ⏏ (botón de liberación del panel de control) para desmontar el panel de control.

2 Retire la placa de guarnición.

3 Retire la manga después de desenganchar los retenes de la manga.

① Ponga la unidad vertical.

Nota: Al poner la unidad vertical, tenga cuidado de no dañar el fusible provisto en la parte posterior.

② Inserte las dos asas entre la unidad y la manga tal como en la ilustración y desenganche los retenes de la manga.

③ Retire la manga.

Nota: Después de instalar la unidad, asegúrese de guardar las asas para uso futuro.

4 Instale la cubierta en el tablero de instrumentos.

* Después de que la manga esté correctamente instalada en el tablero de instrumentos, doble las lengüetas correspondientes para sostener la manga firmemente en su lugar, tal como se muestra.

5 Fixe el perno de montaje ou la parte trasera del cuerpo de la unidad y coloque el cojín de goma sobre el extremo del perno.

6 Realice las conexiones eléctricas requeridas en base a las explicaciones que figuran en la parte de atrás de estas instrucciones.

7 Deslice la unidad dentro de la manga hasta que quede trabada.

8 Coloque la placa de guarnición.

9 Coloque el panel de control.

FRANÇAIS

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

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

- *L'illustration suivante est un exemple d'installation typique. Cependant, vous devez faire les ajustements correspondant à votre voiture particulière. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.*

1 Avant le montage: *Appuyer sur ⏏ (touche de libération du panneau de commande) pour détacher le panneau de commande.*

2 *Retirer la plaque d'assemblage.*

3 *Libérer les verrous du manchon et retirer le manchon.*

① *Poser l'appareil à la verticale.*

Remarque: *Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur le fond.*

② *Insérer les 2 poignées entre l'appareil et le manchon comme indiqué pour désengagé les verrous de manchon.*

③ *Retirer le manchon.*

Remarque: *S'assurer de garder les poignées pour une utilisation ultérieur, après l'installation de l'appareil.*

4 *Installer le manchon dans le tableau de bord.*

* *Après installation correcte du manchon dans le tableau de bord, plier les bonnes pattes pour maintenir fermement le manchon en place, comme montré.*

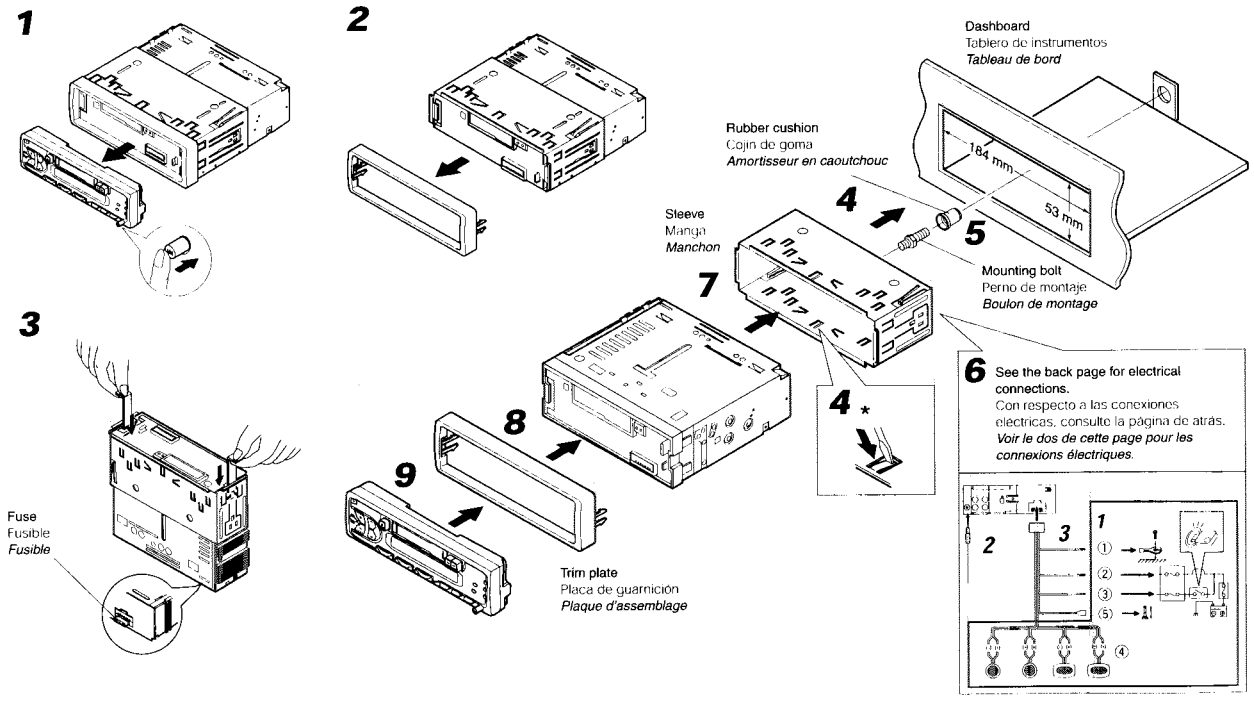
5 *Monter le boulon de montage sur l'arrière du corps de l'appareil puis passer l'amortisseur en caoutchouc sur l'extrémité du boulon.*

6 *Réalisez les connexions électriques expliquées au dos de cette page.*

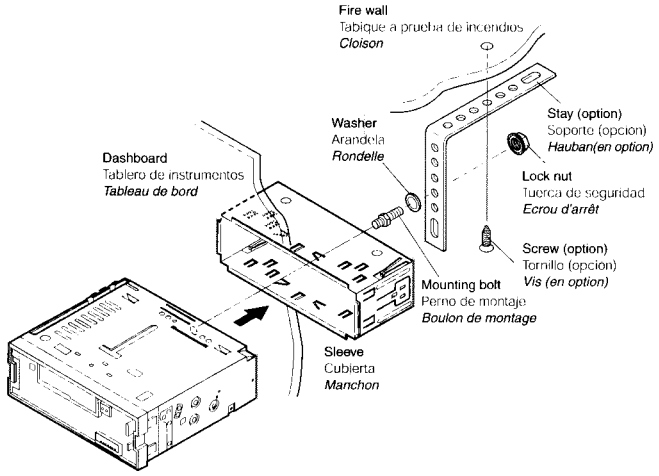
7 *Faire glisser l'appareil dans le manchon jusqu'à ce qu'il soit verrouillé.*

8 *Fixer la plaque d'assemblage.*

9 *Remonter le panneau de commande.*

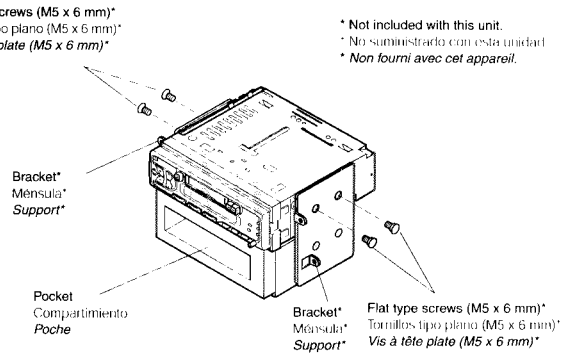


• When using the optional stay
• Cuando emplea un soporte opcional
• Lors de l'utilisation du hauban en option



• When installing the unit without using the sleeve
• Instalación de la unidad sin utilizar la cubierta
• Lors de l'installation de l'appareil sans utiliser de manchon

In a Toyota for example, first remove the car radio and install the unit in its place.
En un Toyota por ejemplo, primero extraiga la radio del automóvil y luego instale la unidad en su lugar.
Par exemple dans une Toyota, retirer d'abord l'autoradio et installer l'appareil à la place.



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

Nota: Cuando instala la unidad en la ménsula de montaje, asegúrese de utilizar los tornillos de 6 mm de longitud. Si se utilizan tornillos más largos, éstos pueden danar la unidad.

Remarque: *Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 6 mm. Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.*

Removing the unit

- Before removing the unit, release the rear section.

1 Remove the control panel.

2 Remove the trim plate.

3 Insert the 2 handles into the slots, as shown. Then, while gently pulling the handles away from each other, slide out the unit. **(Be sure to keep the handles after installing it.)**

Extracción de la unidad

- Antes de extraer la unidad, libere la sección trasera.

1 Extraiga el panel de control.

2 Retire la placa de guarnición.

3 Inserte las 2 manijas entre las ranuras, como se muestra. Luego, separe gentilmente las manijas y extraiga la unidad. **(Asegúrese de conservar las manijas después de instalarlo.)**

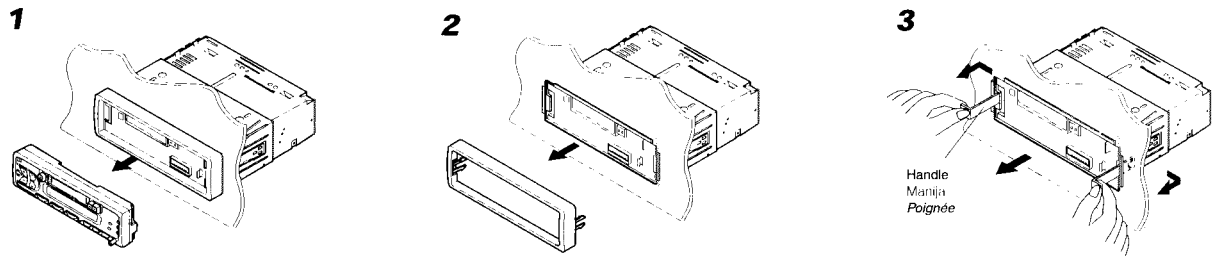
Retrait de l'appareil

- *Avant de retirer l'appareil, libérer la section arrière.*

1 *Retirer le panneau de commande.*

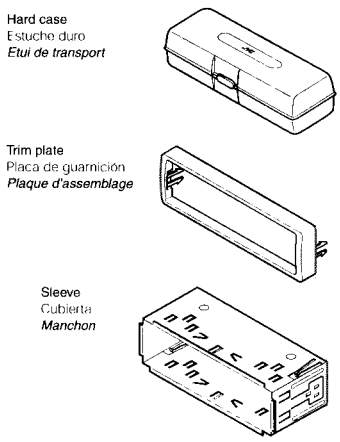
2 *Retirer la plaque d'assemblage.*

3 *Introduire les deux poignées dans les fentes, comme montré. Puis, tout en tirant doucement les poignées écartées, faire glisser l'appareil pour le sortir.* **(S'assurer de conserver les poignées après l'installation de l'appareil.)**



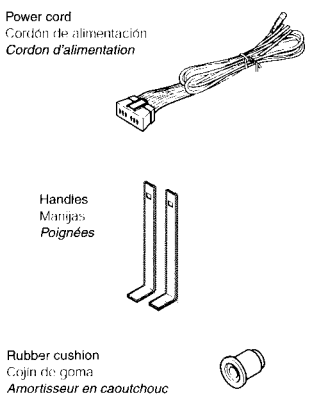
Parts list for installation and connection

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



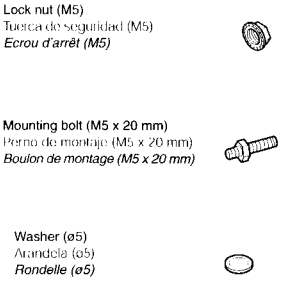
Lista de piezas para instalación y conexión

Con esta unidad se suministran las siguientes piezas.
Después de inspeccionarlas, colóquelas correctamente.



Liste des pièces pour l'installation et raccordement

Les pièces suivantes sont fournies avec cet appareil.
Après vérification, veuillez les placer correctement.



ENGLISH

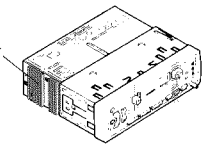
ELECTRICAL CONNECTIONS

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

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

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- If noise is a problem...
  This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's **rear ground terminal** (See connection diagram below.) to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC car audio dealer.
- Maximum input of the speakers should be more than 35 watts at the rear and 35 watts at the front, with an impedance of **4 to 8 ohms**.
- **Be sure to ground this unit to the car's chassis.**
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.

Heat sink
Sumidero térmico
Dissipateur de chaleur



ESPAÑOL

CONEXIONES ELECTRICAS

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

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

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente consulte con su concesionario de JVC de equipos de audio para automóviles.
- Si el ruido fuese un problema...
  Esta unidad tiene un filtro de ruido en el circuito de alimentación. Sin embargo, en algunos vehículos, pueden producirse chasquidos u otros ruidos indeseados. En tal caso conecte el **terminal de tierra posterior** (Ver diagrama de conexión abajo.) del receptor al chasis del automóvil, utilizando cordones más gruesos y cortos tales como alambre de cobre trenzado o de grueso calibre. Si el ruido persiste, consulte a su concesionario de JVC de equipos de audio para automóvil.
- La entrada máxima de los altavoces traseros debe ser mayor de 35 vatios y la de los delanteros de 35 vatios, con una impedancia de **4 a 8 ohmnios**.
- **Asegúrese de conectar esta unidad a tierra en el chasis del automóvil.**
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.

FRANÇAIS

RACCORDEMENTS ELECTRIQUES

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

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

- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Si le bruit est un problème...*
  Cet appareil incorpore un filtre de bruit dans le circuit d'alimentation. Cependant, avec certains véhicules, quelques claquements ou autres bruits non désirés risquent de se produire. Si cela arrive, raccorder la **borne de masse arrière** *de l'appareil au châssis de la voiture (voir le schéma de raccordement ci-dessous) en utilisant des cordons les plus gros et les plus courts possibles telle qu'une barre de cuivre ou une tresse. Si le bruit persiste, consulter votre revendeur d'autoradios JVC.*
- *La puissance admissible des haut-parleurs doit être supérieure à 35 watts à l'arrière et à 35 watts l'avant, avec une impédance de* **4 à 8 ohms**.
- **S'assurer de raccorder la mise à la masse de cet appareil au châssis de la voiture.**
- *Le radiateur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*

A Typical Connections / Conexiones típicas / Raccordements typiques

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

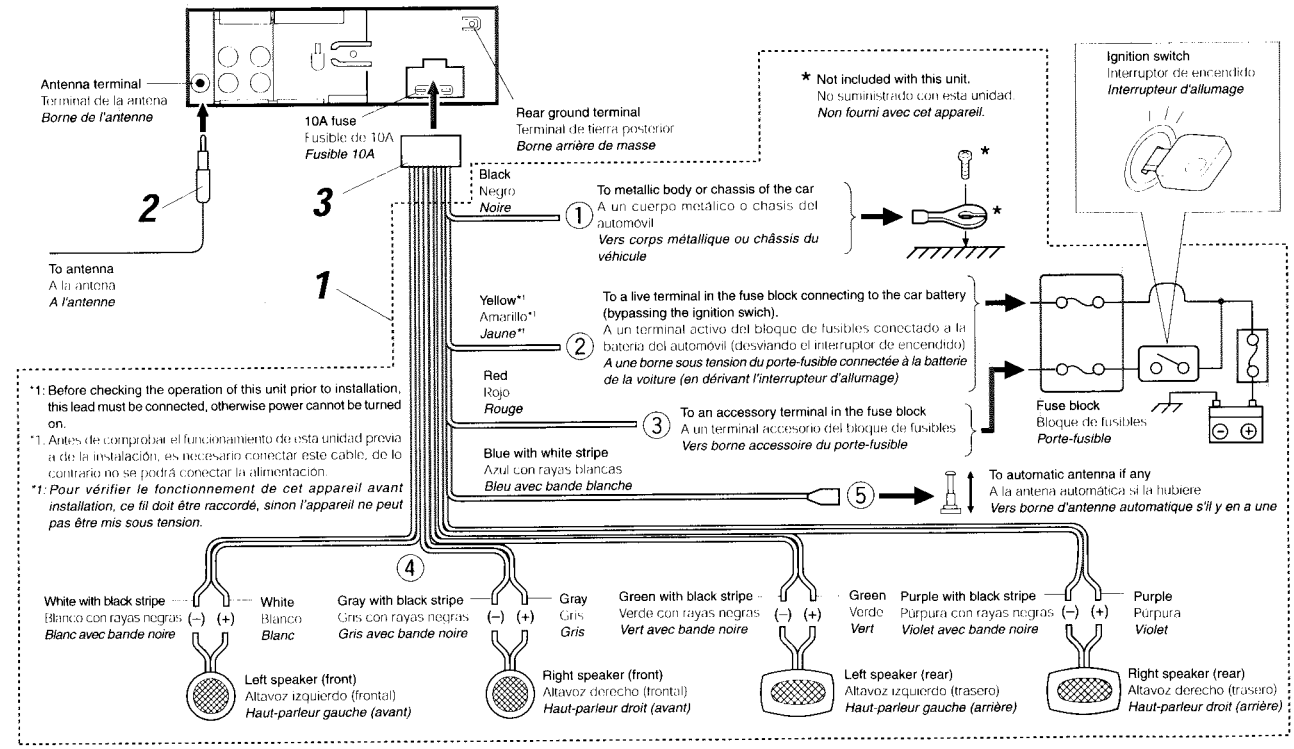
1 Connect the colored leads of the power cord to the car battery, speakers and automatic antenna (if any) in the following sequence.
   ① Black: ground
   ② Yellow: to car battery (constant 12V)
   ③ Red: to an accessory terminal
   ④ Others (except blue with white stripe): to speakers
   ⑤ Blue with white stripe: to automatic antenna
2 Connect the antenna cord.
3 Finally connect the wiring harness to the unit.

Antes de la conexión: Verifique atentamente el conexionado del vehículo. Una conexión incorrecta podría producir daños graves en la unidad.

1 Conecte los conductores de color del cable de alimentación a la batería del automóvil, altavoces y antena automática (si la hubiere) en la secuencia siguiente.
   ① Negro: a tierra.
   ② Amarillo: a la batería del automóvil (12V constantes)
   ③ Rojo: a un terminal de accesorio
   ④ Otros, excepto azul con rayas blancas: a los altavoces
   ⑤ Azul con rayas blancas: a la antena automática
2 Conecte el cable de antena.
3 Por último, conecte a la unidad el cableado preformado.

Avant de commencer la connexion: *vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil.*

1 *Connectez les fils de couleur du cordon d'alimentation à la batterie de la voiture, aux enceintes et à l'antenne automatique (s'il y en a une) dans l'ordre suivant.*
   ① *Noir: a la masse*
   ② *Jaune: a la batterie de la voiture (12V constant)*
   ③ *Rouge: à la prise accessoire*
   ④ *Autres fils à l'exception du fil bleu à bandes blanches: aux enceintes*
   ⑤ *Bleu à bandes blanches: à l'antenne automatique*
2 *Connectez le cordon d'antenne.*
3 *Finalement, connectez le faisceau de fils à l'appareil.*



PRECAUTIONS on power supply and speaker connections:

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

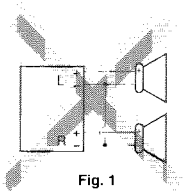


Fig. 1

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

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

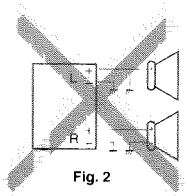


Fig. 2

PRECAUTIONS sur l'alimentation et la connexion des enceintes:

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

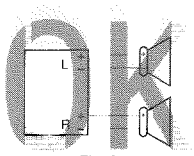
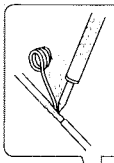


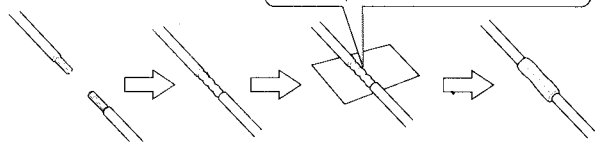
Fig. 3

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

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

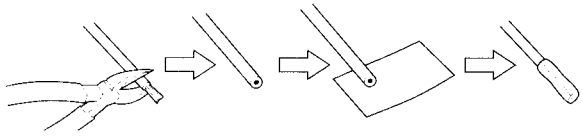


Solder the core wires to connect them securely.
Suelde los alambres de alma para conectarlos con firmeza.
Souder les âmes desfils pour les raccorder entre eux de façon sûre.



CAUTION / PRECAUCION / PRECAUTION:

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



TROUBLESHOOTING

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

LOCALIZACION DE AVERIAS

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

EN CAS DE DIFFICULTÉS

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

-MEMO-

Disassembly Method

■ **Detaching the Front Panel Unit (See Fig.1)**
Push the Release button in the direction of arrow to detach the front panel unit.

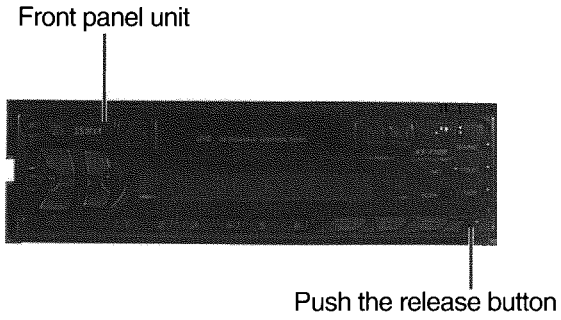


Fig. 1

■ **Removing the Front Chassis (See Fig. 2,3)**
Disengage the four tabs ⓐ in the right and left sides of unit and pull the front chassis forward to remove it.

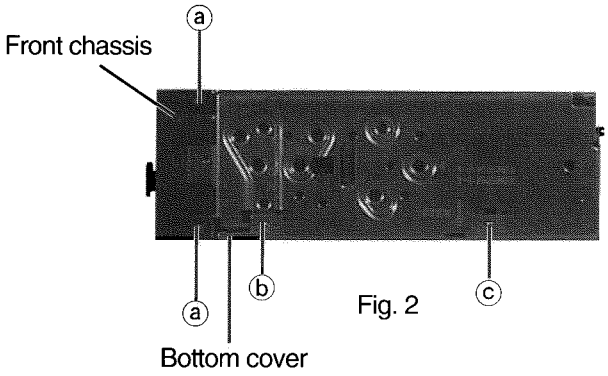


Fig. 2

■ **Removing the Bottom Cover (See Fig. 2-4)**
1. Removing the front chassis.
2. Turn the unit up side down.
3. insert the four engagements (ⓑ ⓒ ⓓ ⓔ) to the screwdriver .
4. Turn the screwdriver and remove the bottom cover.

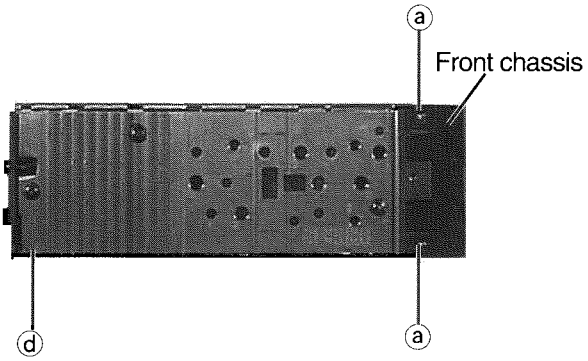


Fig. 3

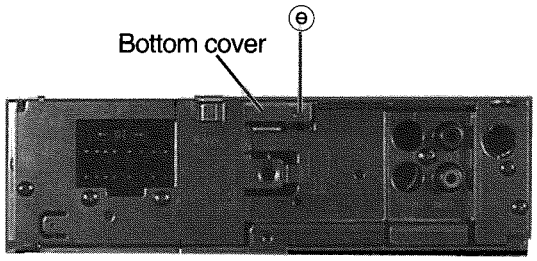


Fig. 4

■Removing the Heat Sink (See Fig. 5)

1. Removing the front chassis.
2. Removing the bottom cover.
3. Remove the three screws ① retaining the heat sink.

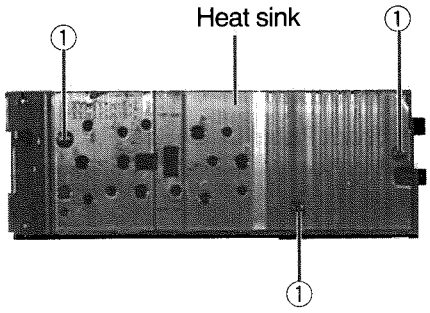


Fig. 5

■Removing the Main Board Assembly (See Fig. 6 ,7)

1. Removing the front chassis.
2. Removing the bottom cover.
3. Removing the heat sink.
4. Remove the two screws ② retaining the main board assembly.
5. Remove the two screws ③ retaining the rear panel .
6. Separate the main board assembly and cassette mechanism assembly.
7. Take out the main board assembly.

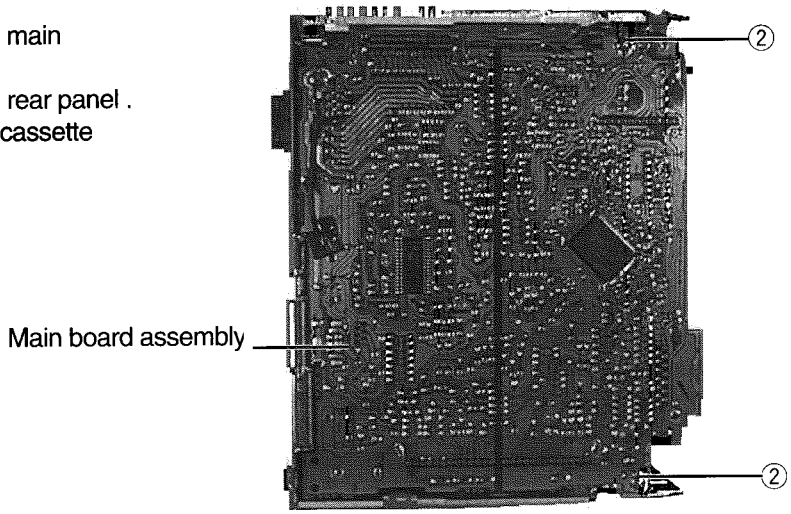


Fig. 6

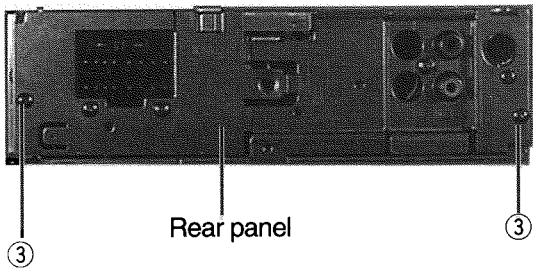


Fig. 7

■ Removing the Cassette Mechanism (See Fig. 8)

1. Removing the front chassis.
2. Removing the bottom cover.
3. Removing the heat sink.
4. Removing the main board assembly.
5. Remove the four screws ④ retaining the cassette mechanism.
6. Separate the top chassis and cassette mechanism.

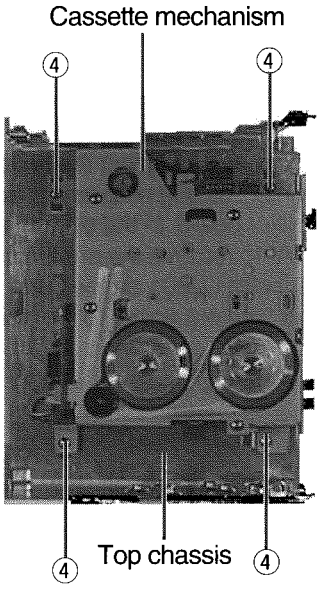


Fig. 8

■ Removing the Operation Switch board (See Fig. 9~13)

1. Detaching the front panel unit.
2. Turn the front panel back side down.
3. Remove the four screws ⑤ retaining the front cover.
4. Turn the front panel right side down.
5. Insert and disengage ⓕ the two engagements to the screwdriver.
6. Turn the front panel left side down.
7. Insert and disengage ⓖ the two engagements to the screwdriver.
8. Turn the front panel bottom side down.
9. Insert and disengage ⓗ the three engagements to the screwdriver.
10. Separate the front side and front cover.

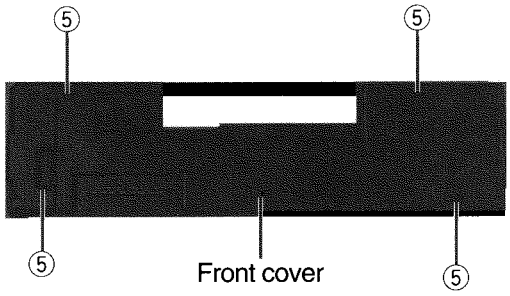


Fig. 9

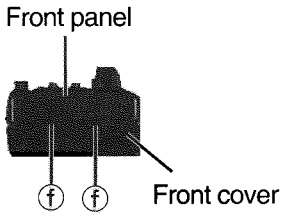


Fig. 10

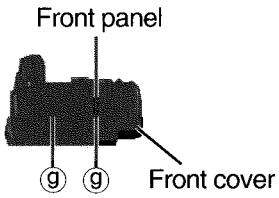


Fig.11

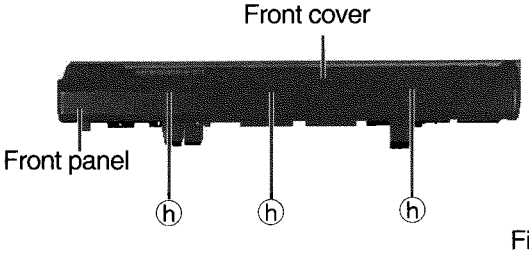


Fig. 12

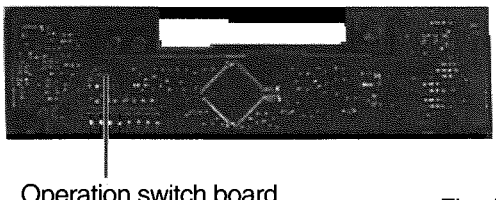


Fig. 13

■Removing the Head Amplifier Board (See Fig. 14)

1. Removing the front chassis.
2. Removing the bottom cover.
3. Removing the heat sink.
4. Removing the main board assembly.
5. Removing the cassette mechanism.
6. Remove the screw ⑥ retaining the head amplifier board.
7. Shift the two inter rocking sections ⓘ securing the head amplifier board in the direction shown by the arrow "A" to remove the printed circuit board.
8. From the connector CJ901 on the head amplifier board from connector wire out going to the head relay board.

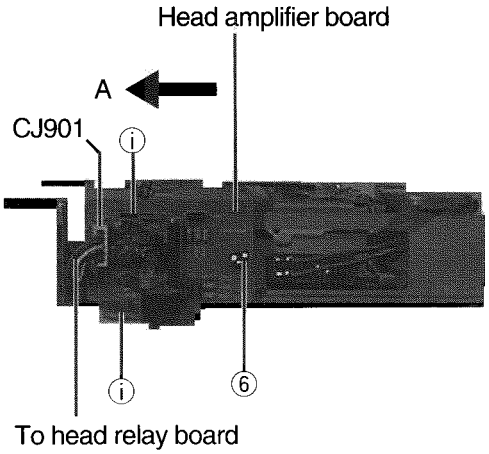


Fig . 14

■Removing the Chassis Assembly (See Fig. 15,16)

1. Removing the front chassis.
2. Removing the bottom cover.
3. Removing the heat sink.
4. Removing the main board assembly.
5. Removing the cassette mechanism.
6. Removing the head amplifier board.
7. Turn the left side to cassette mechanism.
8. Shift the one inter rocking sections ⓙ securing the relay board in the direction shown by the arrow "B" to remove the printed circuit board.
9. Remove the screw ⑦ retaining the relay board.
10. Turn the back side down, remove the four screws ⑧ retaining the chassis assembly.

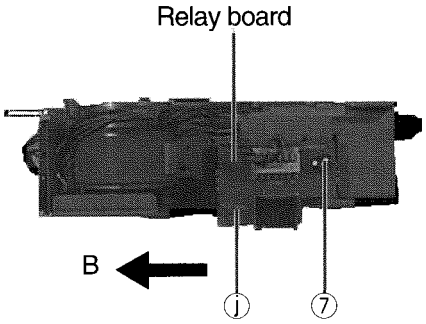


Fig . 15

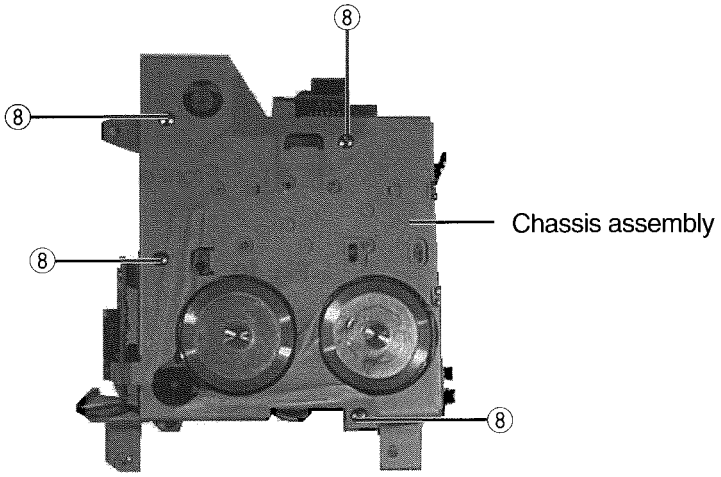


Fig . 16

《Cassette Mechanism Sections 》

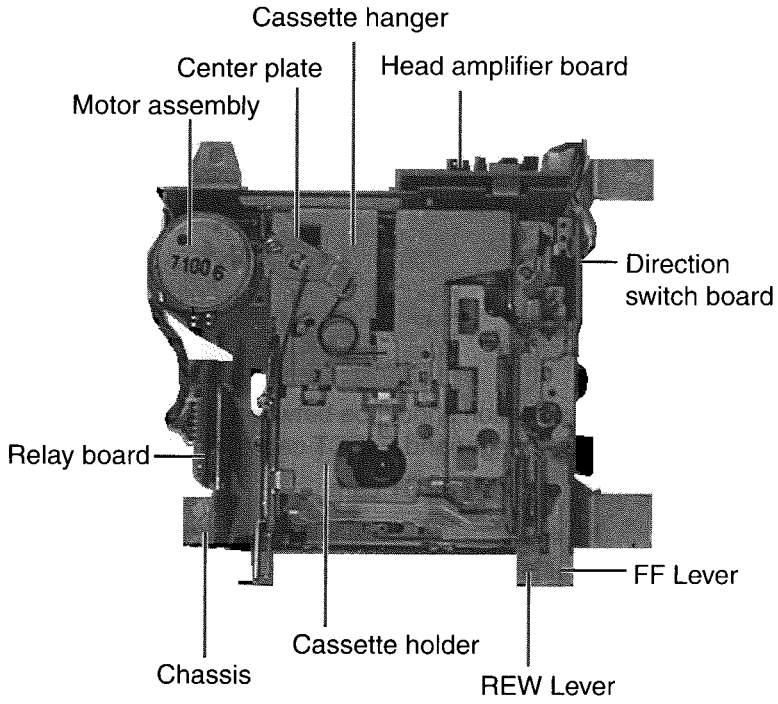


Fig. 1

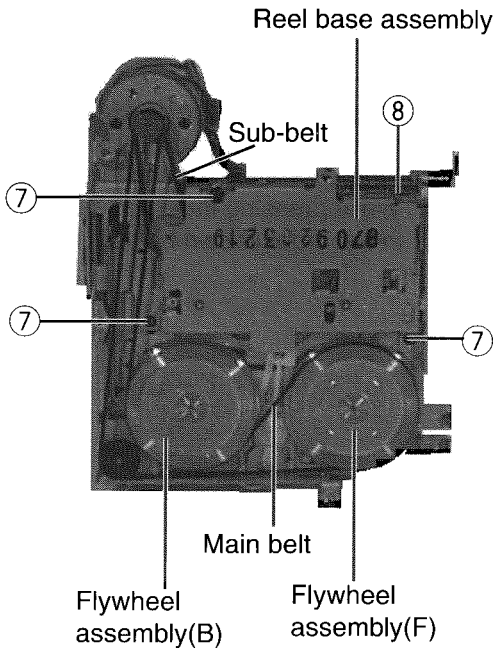


Fig. 2

■Removing the Main Parts of Cassette Mechanism

1. Remove the cassette hanger and FF, REW, EJECT lever etc. , when you need to replace or adjusting head.
2. The main belt can be replaced directly.
3. To change the sub-belt, remove the three screws ⑦ and loosen one screw ⑧ .
   Then raise the belt side of the reel base assembly slightly.

■Removing the Cassette Hanger (See Fig.1～5)

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

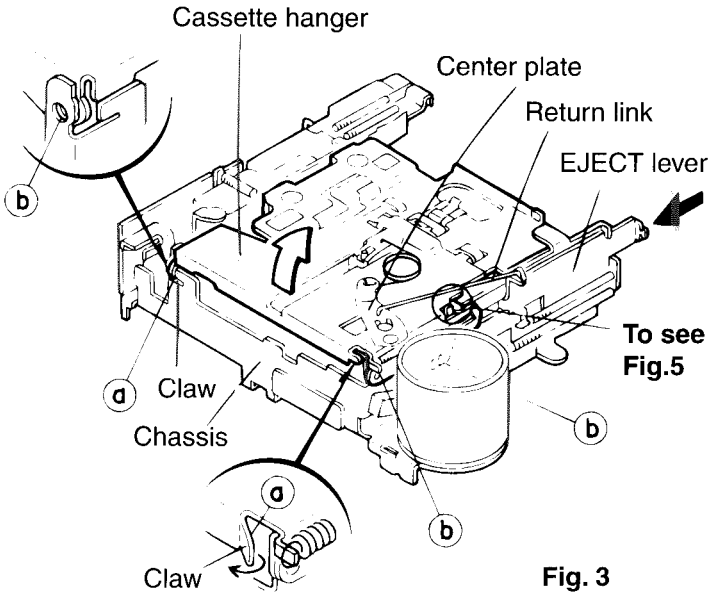


Fig. 3

Note : The reel disk and capstan can now be replaced.

1-1 Remove the C washer at the top of the reel disk to remove the reel disk.
caution : Replace with a new C washer after repairing.

1-2 To replace the capstan, remove the E washer in the pinch-roller section.
Remove the main belt of the flywheel beforehand.

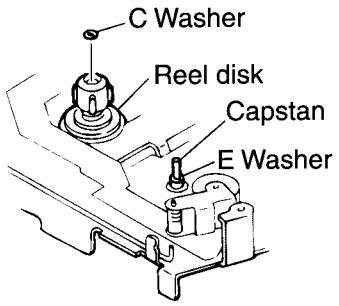


Fig. 4

■Assembling the Cassette Hanger (See Fig. 1-5)

1. Assemble the return link.
2. Install the cassette hanger on the chassis.
   Note : While pressing the EJECT lever, assemble in the order shown below.

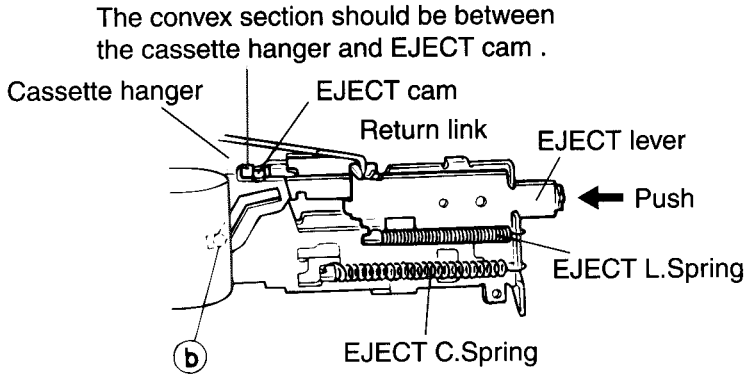


Fig. 5

■Removing the FF/REW lever assembly (See Fig. 6)

1. From the rear of unit, remove the FF/REW lever assembly retaining the one screw① .
2. From the upper part of the FF/REW lever assembly, remove the FF/REW lever assembly retaining the one screw ② .
3. From the front of unit, remove the FF/REW lever assembly upwards and pull it slightly to the front.

■Assembling the FF/REW lever Assembly

1. Assemble the FF/REW lever assembly to the chassis of rear section ⓒ .
2. Assemble the pinch-roller shaft ⓓ , change lever(B) ⓔ and return link ⓕ to chassis.

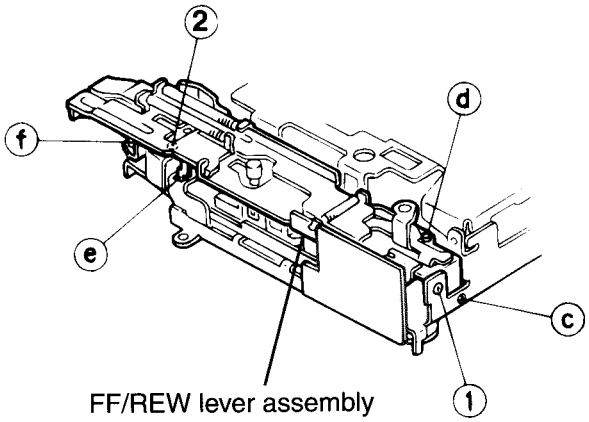
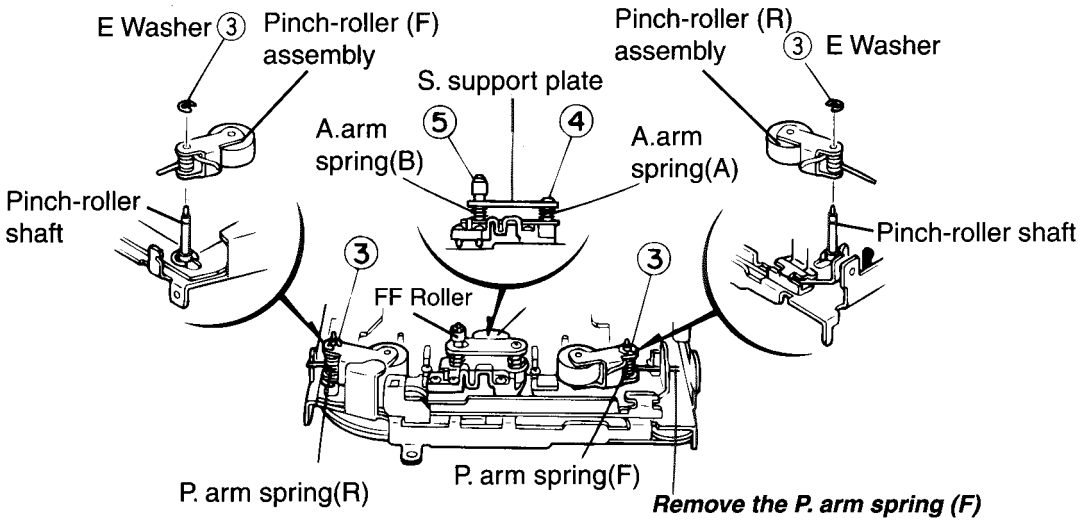


Fig. 6



Remove the P. arm spring (F) from the chassis.

Fig. 7

■Removing the Pinch-Roller assembly (See Fig. 7)

1. Remove the two E Washers ③ retaining the pinch-roller shaft.
2. Remove the P.Arm spring (F) from the chassis.
3. Remove the P.Arm spring (R) from the chassis.
4. Pull out the pinch-roller(F,R) assemblies from the left and right sides.

Note : The P.arm spring (F) and P.arm spring (R) are different.
Note : The Pinch-roller (F) and Pinch-roller(R)assemblies are different.

■Removing the Playback Head (See Fig. 7)

1. Remove the one fixed screw ④ retaining the playback head.
2. Remove the C Washer ⑤ to pull the FF roller out .
3. Remove the S. support plate to remove the A.arm springs (A,B) and playback head.

Note : The A. arm spring (A) and A. arm spring (B) are different.

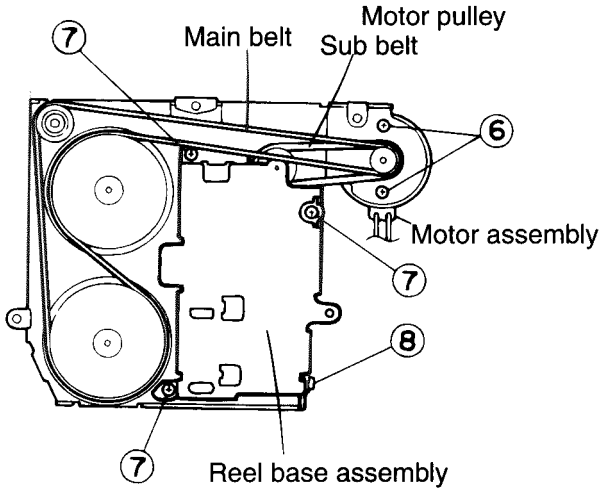


Fig. 8

■Removing the Motor Assembly (See Fig. 8)

1. Remove the main belt and sub-belt from the back side unit.
2. Remove the two screws ⑥ retaining the motor assembly.

■Changing the Sub-Belt (See Fig. 8)

1. Remove the main belt from the back side unit..
2. Remove the sub-belt from the motor pulley.
3. Remove the four screws ⑦ , ⑧ retaining the reel base assembly.
4. Lift up the reel base assembly slightly to change the belts.

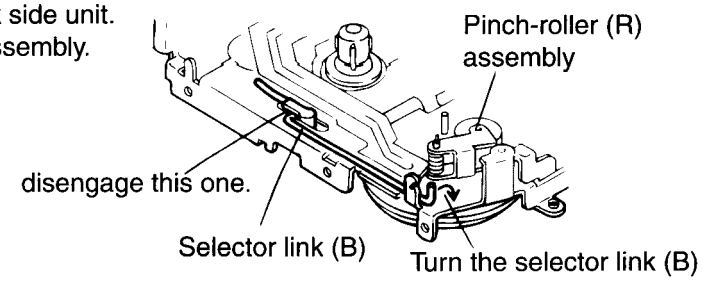
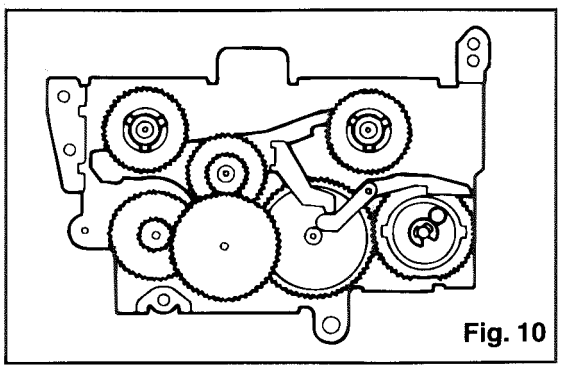


Fig. 9

■Removing the Reel Base Assembly (See Fig. 8~10)

1. Remove the selector link (B) from the front unit by turning the selector link (B) near the pinch-roller as shown in the figure 9.
3. Remove the four screws ⑦ , ⑧ retaining the reel base assembly.
4. Remove the reel base assembly carefully.

Note : Service for the reel base assembly is not available.



Back side view of the reel base assembly

Fig. 10

Adjustment Method

■Test Instruments reqired for adjustment

1.Digital oscllloscope(100MHz)

2.Frequency Counter meter

3.Electric voltmeter

4.Wow & flutter meter

5.Test Tapes

VT724 ---------- for DOLBY level measurement

VT739 --------- For playback frequency measurement

VT712 ---- For wow flutter&tape speed measurement

VT703 ---------- For head azimuth measurement

6.Torque gauge ---------- Cassette type for CTG-N (mechanism adjustment)

■Measuring conditions(Amplifier section)

Power supply voltage ---------- DC14.4V(10.5~16V)

Load impedance ---------- 4Ω(2Speakers connection)

Line out ---------- 20kΩ

■Standard volume position

Balance and Bass,Treble volume .Fader :Center(Indication"0")

Loudness,Dolby NR,Sound,Cruise:Off

Volume position is about 2V at speaker output with following conditions.Playback the test tape VT721.

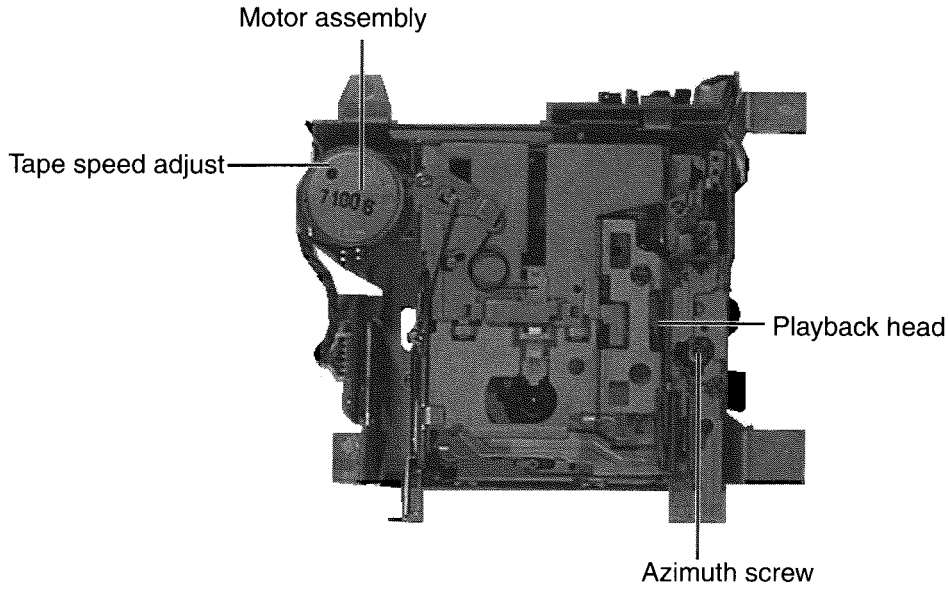
AM mode	999kHz/62dB,INT/400Hz,30% modulation signal on recieving.
FM mono mode	97.9MHz/66dB,INT/400Hz,22.5kHz deviation pilot off mono
FM stereo mode	1kHz,67.5kHz dev. pilot7.5kHz dev.
Output level	0dB(1μV, 50Ω/open terminal)

■Frequency Band

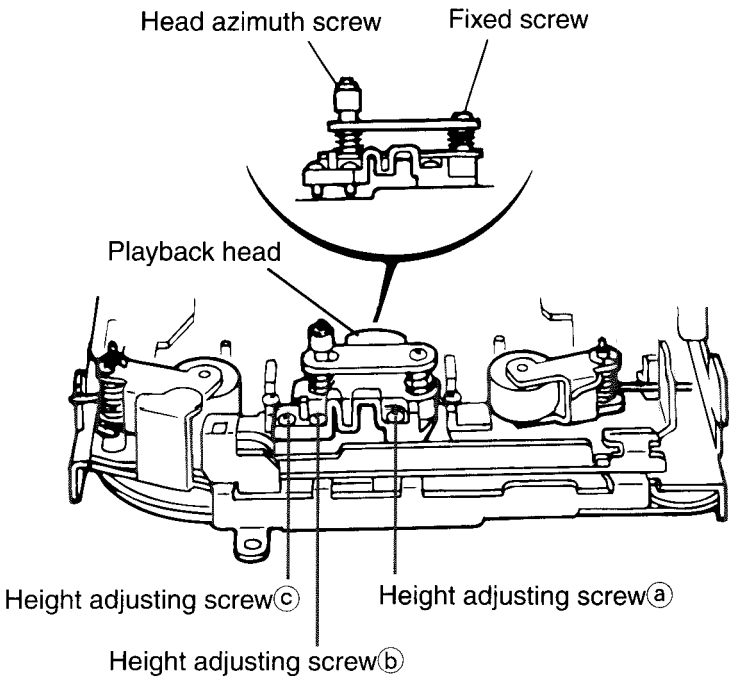
MODEL			KS-F110	KS-FX11	
Band	FM	J	87.5-107.9MHz	87.5-107.9MHz	200KHz step
		U	87.5-108MHz	87.5-108MHz	50KHz step
		E	87.5-108MHz	-	
	MW	J	530-1710KHz	530-1710KHz	10KHz step
		U	531-1602KHz	531-1602KHz	9KHz step
		E	522-1620KHz	-	
	LW	E	144-279KHz	-	

■ Arrangement of Adjusting & Test points

Cassette mechanism (Surface)



Head section view



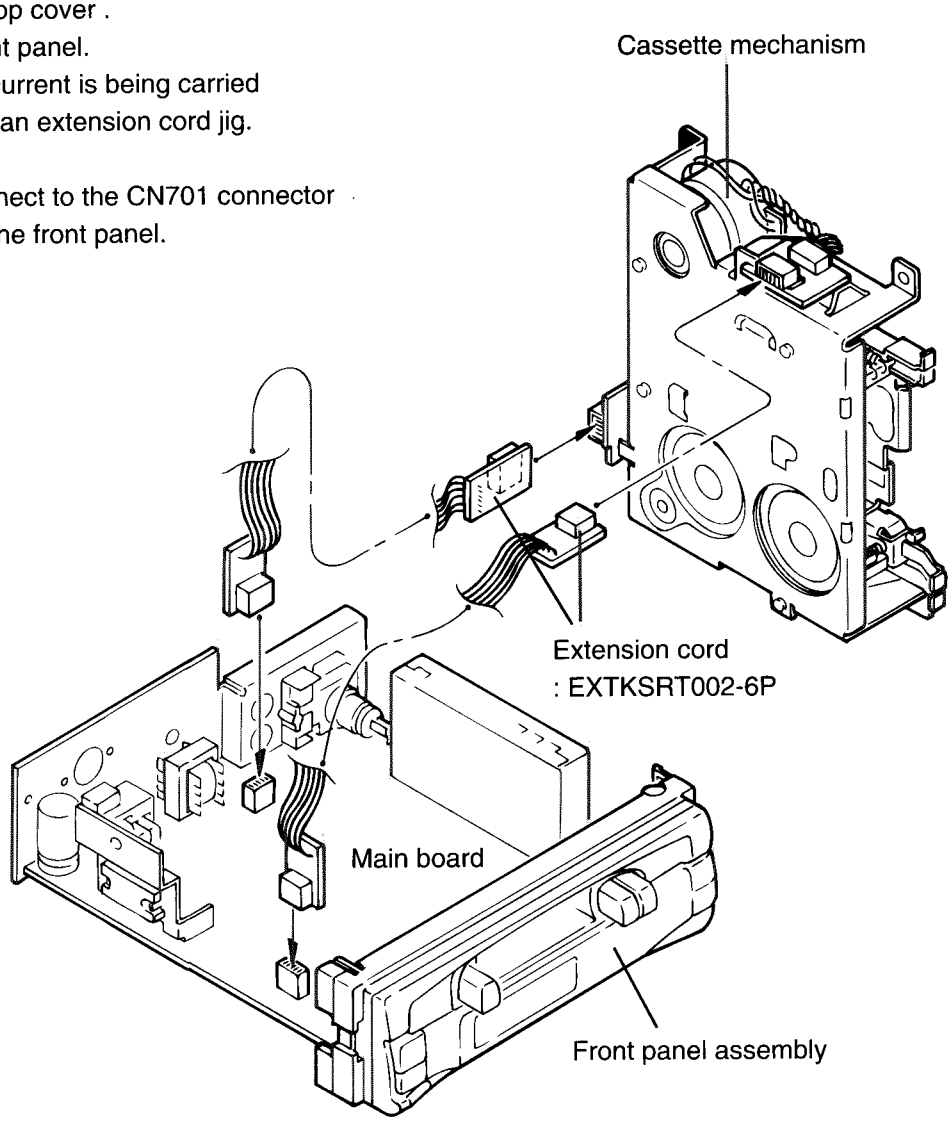
■Information for using a Car Audio Service Jig

1. For 1995 and 1996 , we're advancing efforts to make our extension cords common for all car audio products. Please use this type of extension cord as follows.
2. As a U-shape type top cover is employed, this type of extension cord is needed to check operation of the mechanism assembly after disassembly.
3. Extension cord : EXTKSRT002-6P (6 pin extension cord)
   For connection between mechanism assembly and main board assembly.
   Check for mechanism driving section such as motor ,etc..

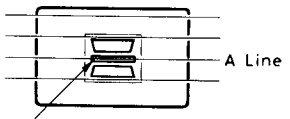
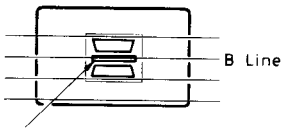
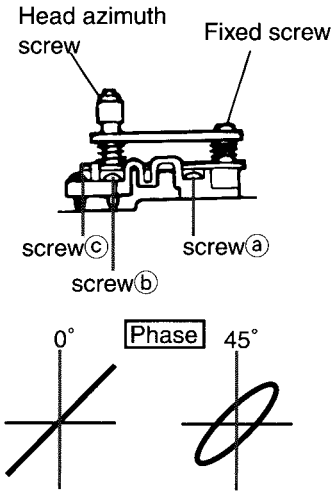
■Disassembly Method

1. Remove the bottom cover.
2. Remove the front panel assembly.
3. Remove the top cover .
4. Install the front panel.
5. Confirm that current is being carried by connecting an extension cord jig.

Note
Available to connect to the CN701 connector when installing the front panel.

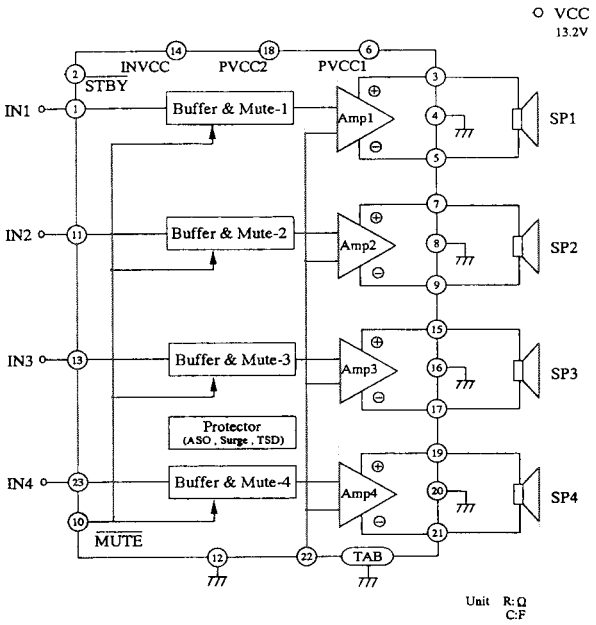


■ Mechanism Adjustment Section

Item	Adjusting & Confirmation Methods	Adjust	Std. Value
1.Head azimuth	"Head Height Adjustment" Note Adjust the azimuth directly. When you adjust the height using a mirror tape, remove the cassette housing from the mechanism chassis. After installing the cassette housing, perform the azimuth adjustment. 1. load the mirror tape (SCC-1659). Adjust with height adjustment screw ⓐ and azimuth adjustment screw ⓑ so that line "A" of the mirror tape runs in the center between Lch and Rch in the reverse play mode. 2. After switching from REV to FWD then to REV, check that the head position set in procedure "1" is not changed. *If the position has shifted, adjust again and check. 3. Adjust the azimuth screw ⓑ so that line "B" of the mirror tape runs in the center between Lch and Rch in the forward play mode. "Head Azimuth Adjustment" 1. Load the test tape (VT724: 1kHz) and play it back in the reverse play mode. set the Rch output level to maximum. 2. Load the test tape (VT703: 10kHz) and play it back in the forward play mode. Adjust the Rch and Lch output levels to maximum, with azimuth adjustment screw ⓑ . In this case, the phase difference should be within 45° . 3. Engage the reverse mode and adjust the output level to maximum, with azimuth adjustment screw ⓒ . *The phase difference should be 45° or more. 4. When switching between forward and reverse modes, the difference between channels should be within 3dB. *Between FWD Lch and Rch, REV Lch and Rch. 5. When the test tape (VT721 : 315Hz) is played back, the level difference between channels should be within 1.5dB.	 Head shield *The head is at low position during FWD.*  Head shield *The head is at height position during REV.* 	
2. Tape Speed and Wow & Flutter	1. Check to see if the reading of the frequency counter & Wow flutter meter is within 2940-3090 Hz(FWD/REV), and less than 0.35% (JIS RMS). 2. In case of out of specification, adjust the motor with a built-in volume resistor.	Built-in volume resistor	Tape Speed 2940-3090Hz Wow&Flutter Less than 0.35% (JIS RMS)
3. Playback Frequency response	1. Play the test tape (VT724 : 1kHz) back and set the volume position at 2V. 2. Play the test tape (VT739)back and confirm 0±3dB at 1kHz/8kHz and -4+2dB at 1kHz/125Hz. 3. When 8kHz is out of specification, it will be necessary to read adjust the azimuth.		Speaker out 1kHz/8kHz : 0dB±3dB, 125Hz/1kHz : -4dB+2dB,

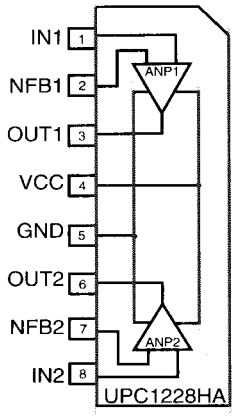
Description of Main ICs

■HA13158(IC981) : BTL Amplifier



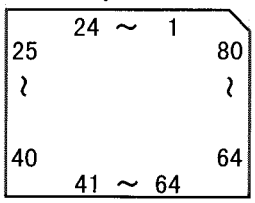
note1) TAB(header of IC) connected to GND

■UPC1228HA(IC901) : Head Amplifier



■LC72362N-9369(IC701):System Controller (KS-F110 ONLY)

1.Terminal Layout

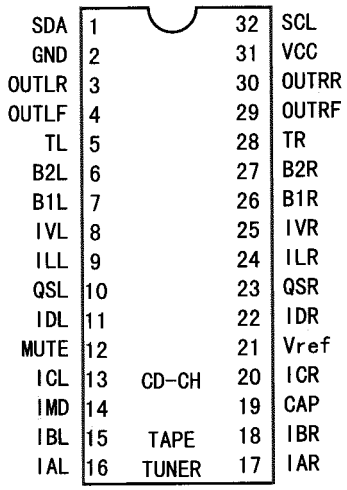


2.Description

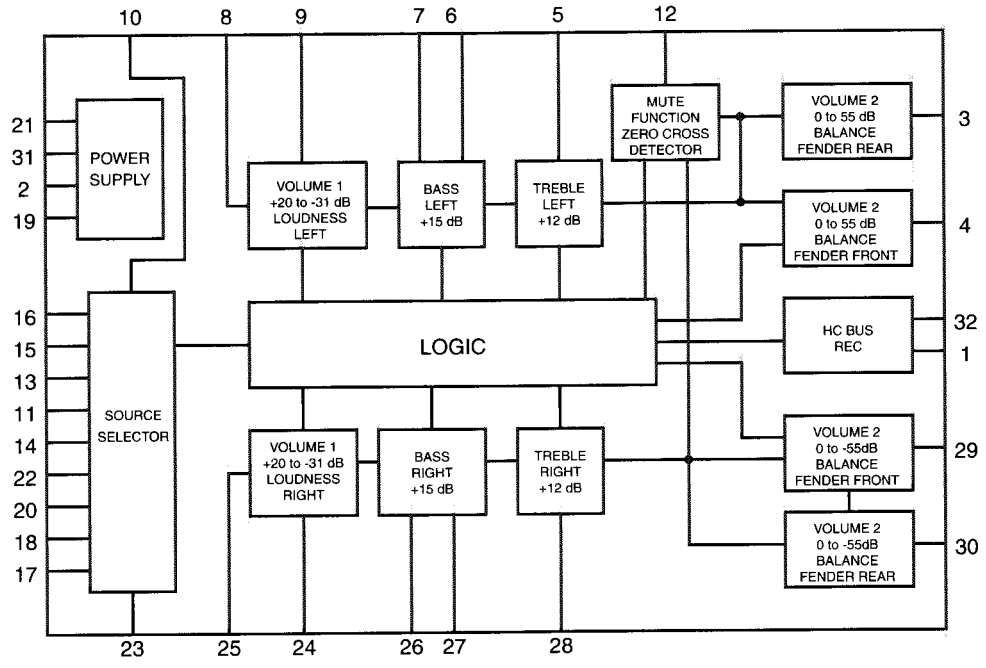
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XIN	I	Crystal oscillator	41	NC	-	Non connect
2	GND	-	To GND	42	NC	-	Non connect
3	J BUS SI	I	Bus serial data input from CP751	43	NC	-	Non connect
4	J BUS SO	O	Bus serial data output to CP751	44	BEEP	-	Non connect
5	J BUS SCK	O	Bus serial clock output to CP751	45	NC	-	Non connect
6	J BUS I/O SEL	O	BUS I/O switch signal output	46	NC	-	Non connect
7	NC	-	Non connect	47	NC	-	Non connect
8	LCD SO	O	Serial data output to IC651	48	TAPE IN	I	H:RADIO L:TAPE
9	LCD SCK	O	Serial clock output to IC651	49	F/R SENSE	I	FORWARD/REVERSE switch detector
10	LCD CE	O	Chip enable output to IC651	50	TAPE MUTE	I	DIR.FF/REW.MUTE
11	NC	-	Non connect	51	SD/ST	I	Station detector and ST input
12	E.VOL SO	O	Serial data output	52	NC	-	Non connect
13	E.VOL SCK	O	Serial clock output	53	DETACH	I	Detection of Front Panel
14	NC	-	Non connect	54	NC	-	Non connect
15	TUNER ILLUM	-	Non connect	55	J BUS INT	I	BUS interruption signal detection communication
16	TAPE ILLUM	-	Non connect	56	REMOCON	-	To GND
17	CD ILLUM	-	Non connect	57	FM/AM	I	Change over the FM/AM input
18	DIMMER OUT	-	Non connect	58	DOLBY	-	Non connect
19	NC	-	Non connect	59	NC	-	Non connect
20	NC	-	Non connect	60	MUTE	-	The mute time is controlled by the connected capacitor when changing over the FM/AM
21	NC	-	Non connect				
22	NC	-	Non connect				
23	NC	-	Non connect	61	MEMORY DET	I	Memory detector input
24	NC	-	Non connect	62	LEVEL METER	I	———
25	KS1	-	Non connect	63	SMETER	I	Signal meter input
26	KS0	O	Initializing output port	64	KEY 2	I	Momentary key input
27	K3	I	Initializing input port	65	KEY1	I	Momentary key input
28	K2	I	Initializing input port	66	KEY0	I	Momentary key input
29	K1	-	Non connect	67	ACCDET	I	ACC DET
30	K0	I	Initializing input port	68	SENS	-	To GND
31	Vdd	-	Power supply	69	AM IF COUNT	I	Non connect
32	TEST	I	Test input	70	FM IF COUNT	-	AM/FM Frequency detection
33	NC	-	Non connect	71	NC	-	Non connect
				72	NC	-	Non connect
34	SEEK/STOP	O	Output the "If signal request"	73	Vdd	I	Power supply
35	MONO	O	Monaural and stereo change over output	74	AM OSC	I	Input the local oscillator signal of AM
				75	FMOSC	-	Input the local oscillator signal of FM
36	RADIO/TAPE	-	Non connect	76	Vss	-	Power supply
37	BEEP LEVEL	-	Non connect	77	NC	O	Non connect
38	POWER CNT	O	Power control output	78	ED	-	PLL Error signal output
39	Acc	-	Power supply	79	TEST 1	O	To GND
40	NC	-	Non connect	80	XOUT		Crystal oscillator

■TEA6320T(IC931):E.VOLUME

1.Terminal Layout



2.Block Diagram

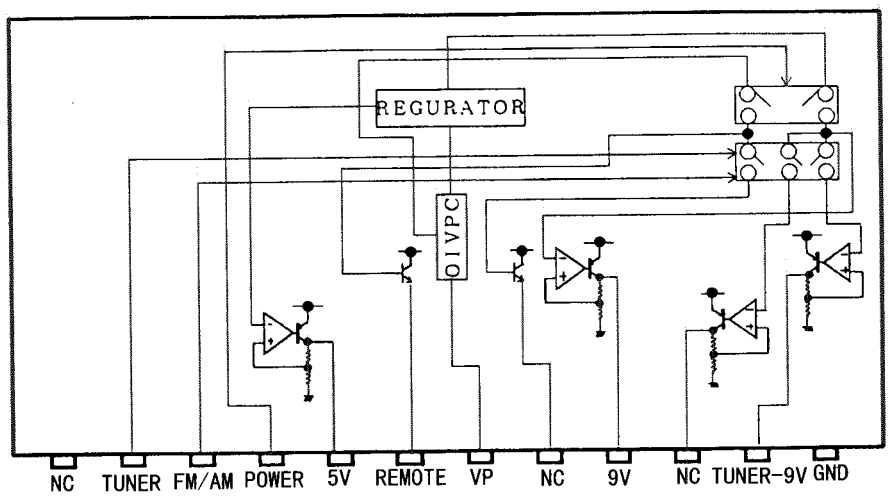


3.Pin Functions

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

■BA3918-V1(IC781) : REGULATOR

1.Block Diagram

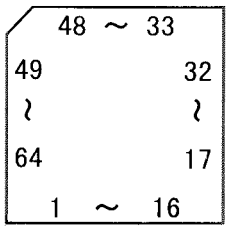


2.Pin Functions

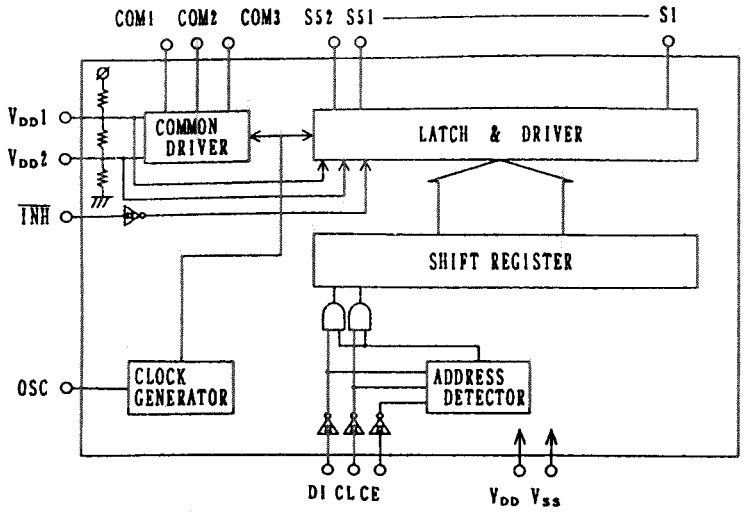
Pin No.	Symbol	I/O	Functions
1	NC	-	Not used
2	TUNER	O	Output selector of AM and ANT.
3	FM/AM	O	Output selector for AM or FM or both outputs is off.
4	POWER	O	Output selector of COM and AMP. Only VDD output is on at STAND BY.
5	5V	-	Output level is 5.6v. Output current is 100mA(min). It is voltage supply for micro computer. Whenever Vcc terminal is connected, output always keep running
6	REMOTE	-	Voltage which is about 1V lower than Vcc unit voitage. Output current is 500mA(min). Voltage supply for Remote Amp.
7	VP	O	To be continued to BACK UP and ACC of car.
8	NC	-	Not used
9	9V	-	Output level is 8.7V. Output current is 150mA(min). It can be used for system common power supply;tone control, volume control,balance control, equalize amplifier.
10	NC	-	Not used
11	TUNER-9V	-	Output level is 8.7V. Output current is 250mA(min). Voltage supply for FM Radio Tuner.
12	GND	-	To GND

■LC75823E(IC651):LCD DRIVER

1.Terminal Layout



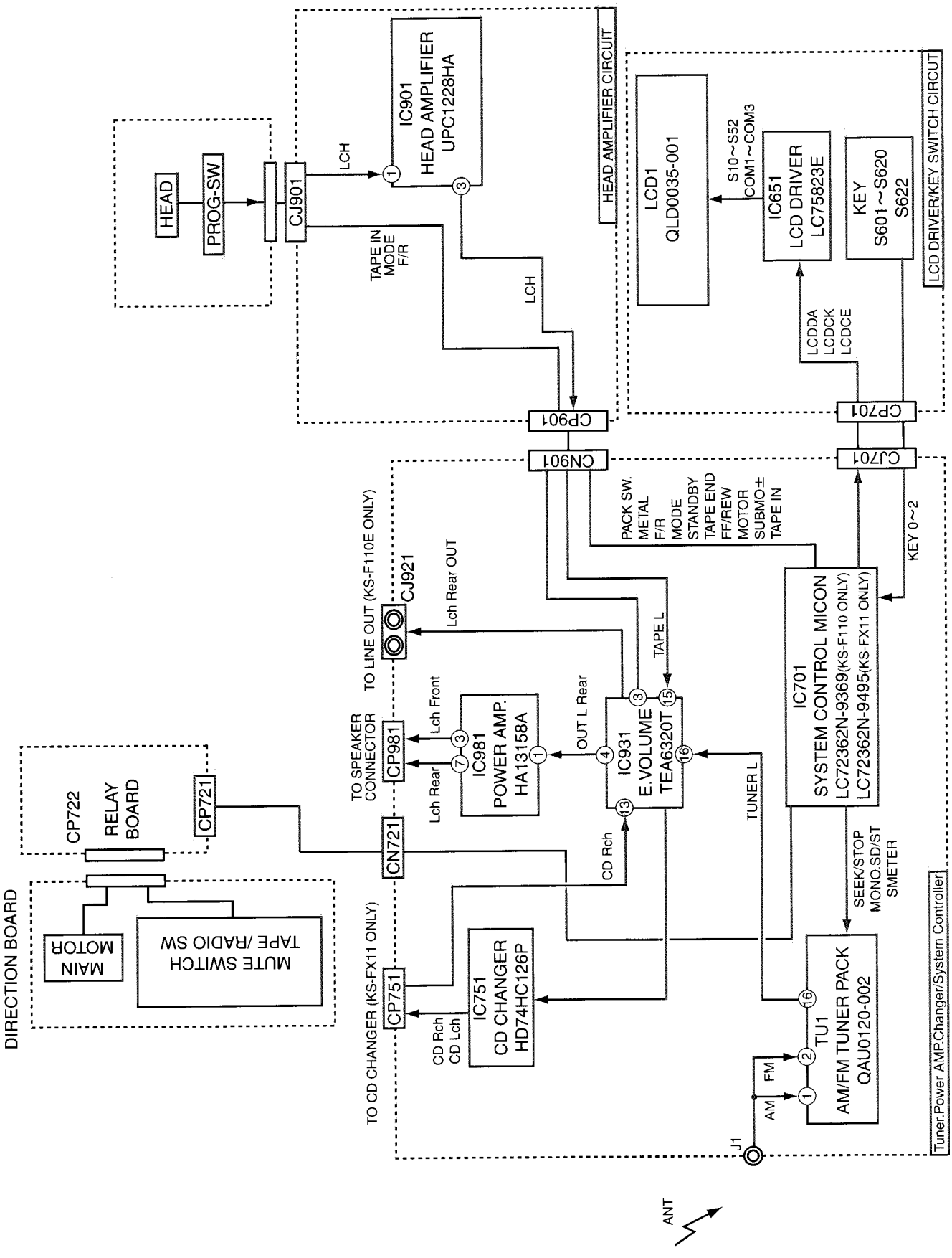
2.Block Diagram



3.Pin Function

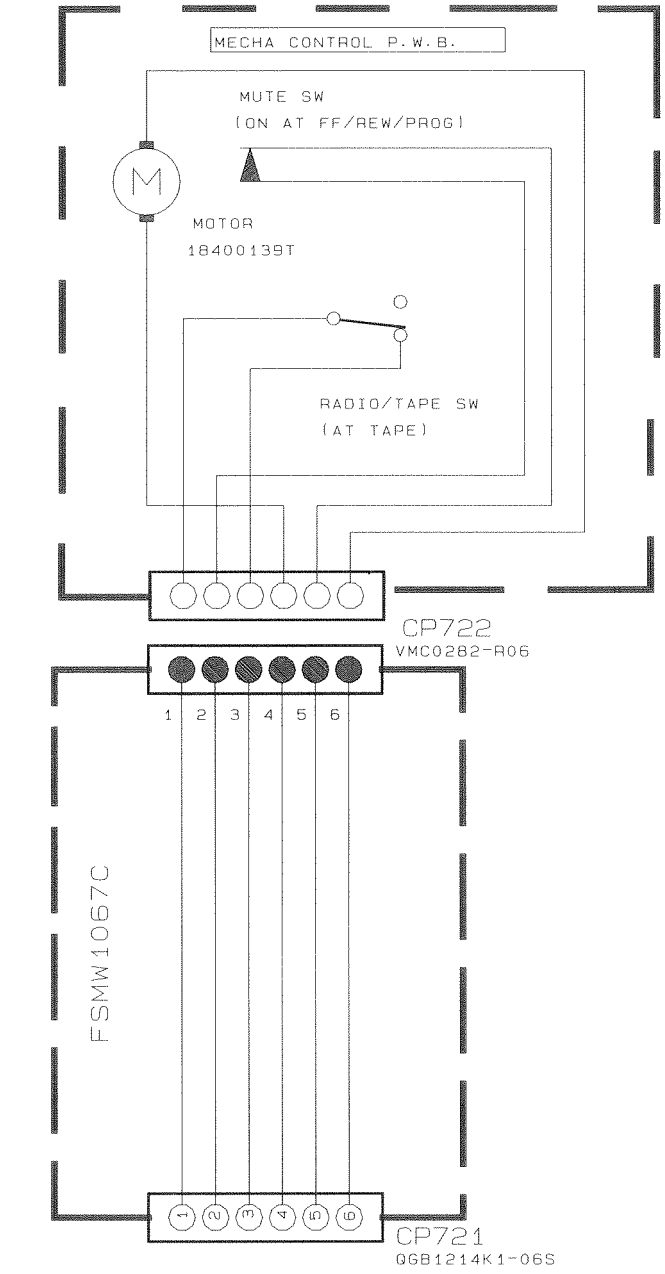
PIN No.	Symbol	I/O	Functions
1~9		-	NOT USED
10~52	S10~S52	O	Segment outputs that display data transferred from serial data.
53~55	COM1~COM3	O	The frame frequency (fo) for the common driver output is (fosc/384)Hz.
56	VDD	-	Power supply
57	/INH	I	Forcibly terns off the display. regardless of internal data. Serial data can be input. whether this pin is high or low
58 59		- -	NOT USED
60	VSS	-	To GND
61	OSC	I	Oscillator connection (for the common segment alternating waveform)
62 63 64	CE CL DI	I I I	Serial data transfer pins.connected to a microprocessor. ┌ CE : Chip enable CL : Sync.clock └ DI : Transfer data

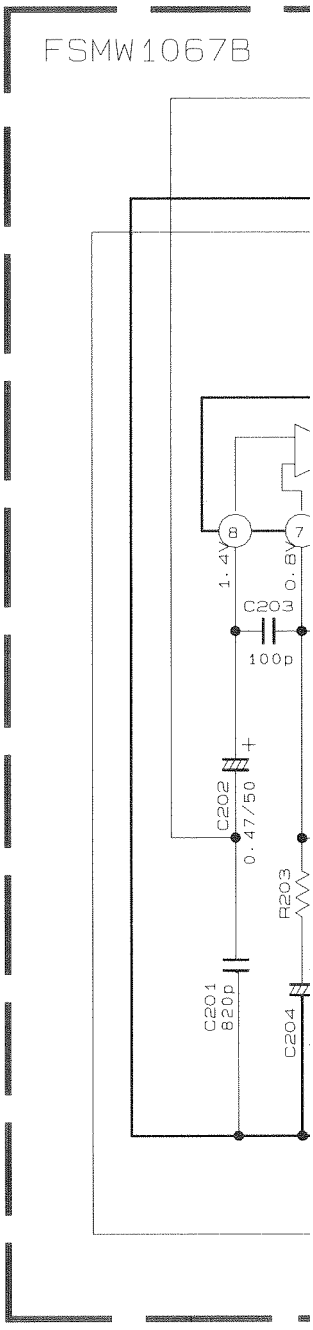
Block Diagram



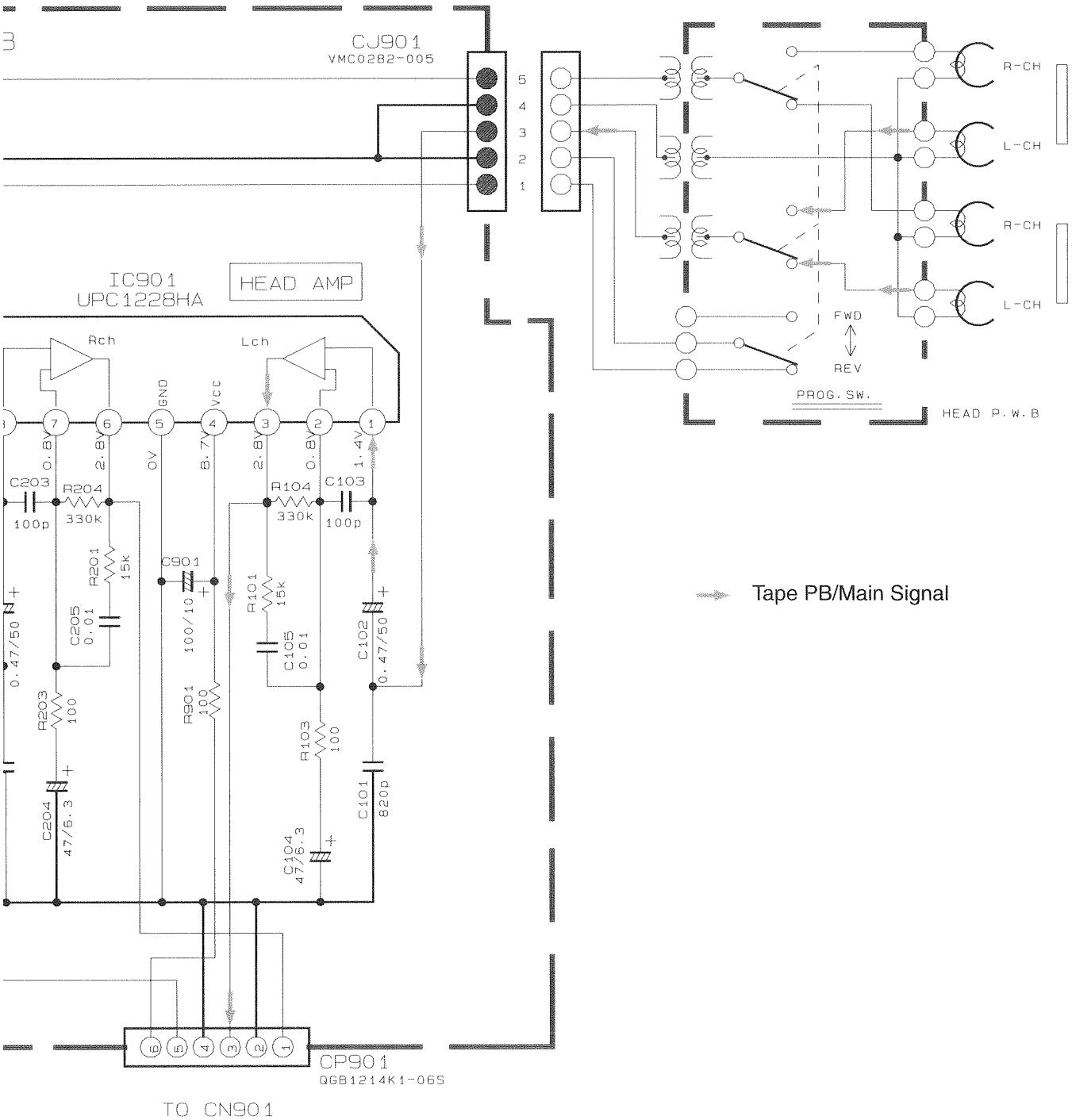
Standard Schematic Diagrams

■Head Amplifier Circuit : Drawing No.FSDH3067-006MW

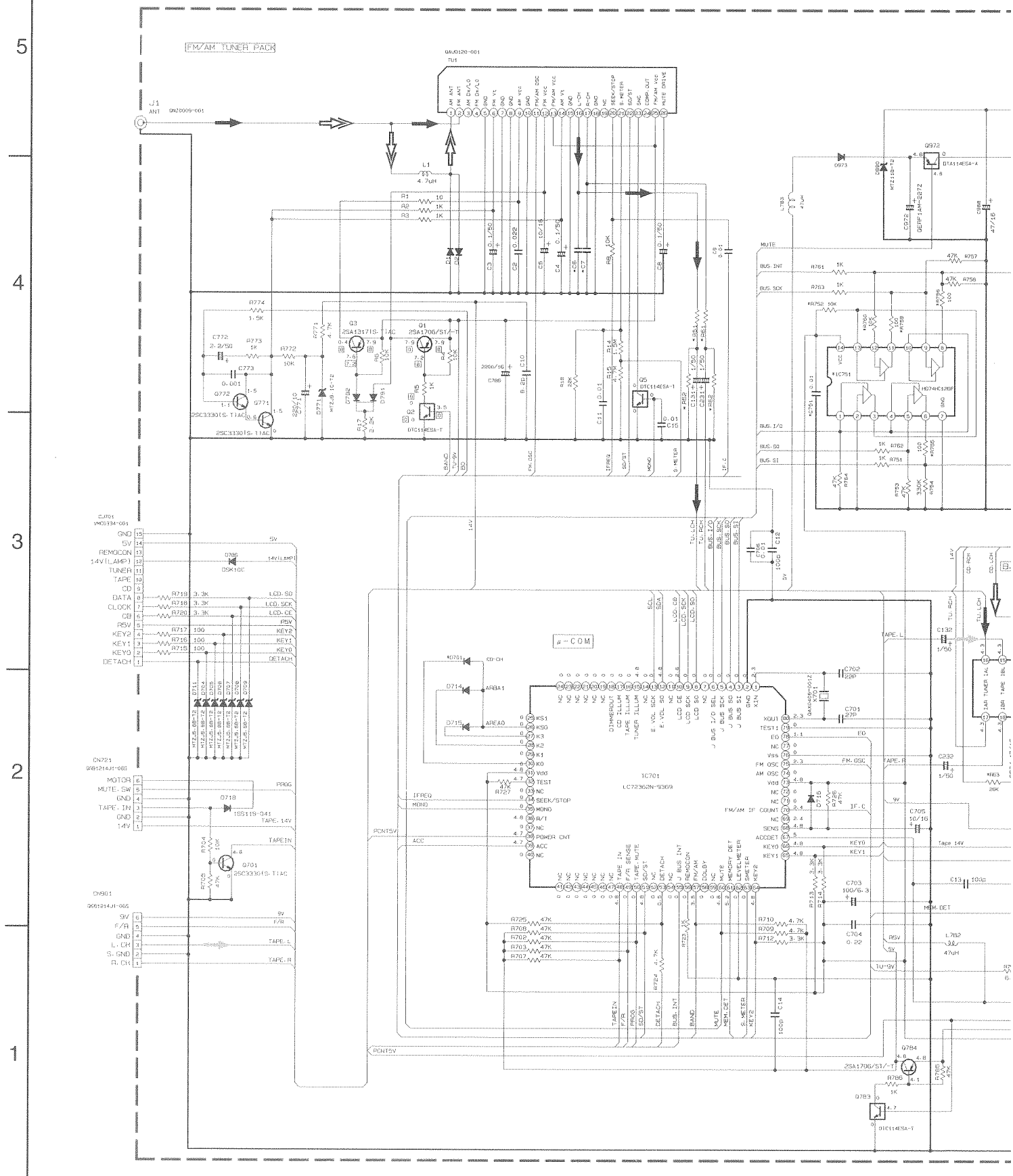




OF


CJ901
VMC0282-005
5
4
3
2
1
R-CH
L-CH
R-CH
L-CH
FWD
REV
PROG. SW.
HEAD P.W.B
IC901
UPC1228HA
HEAD AMP
Rch
Lch
GND
Vcc
7
6
5
4
3
2
1
0.8V
2.8V
0V
8.7V
2.8V
0.8V
1.4V
C203
100p
R204
330k
R201
15k
C205
0.01
0.47/50
R203
100
C204
47/6.3
C901
100/10
R901
100
R101
15k
C105
0.01
R104
330k
C103
100p
C102
0.47/50
R103
100
C101
820p
C104
47/6.3
CP901
QGB1214K1-06S
TO CN901
OF FSDH3067-006AW SHEET 1
Tape PB/Main Signal

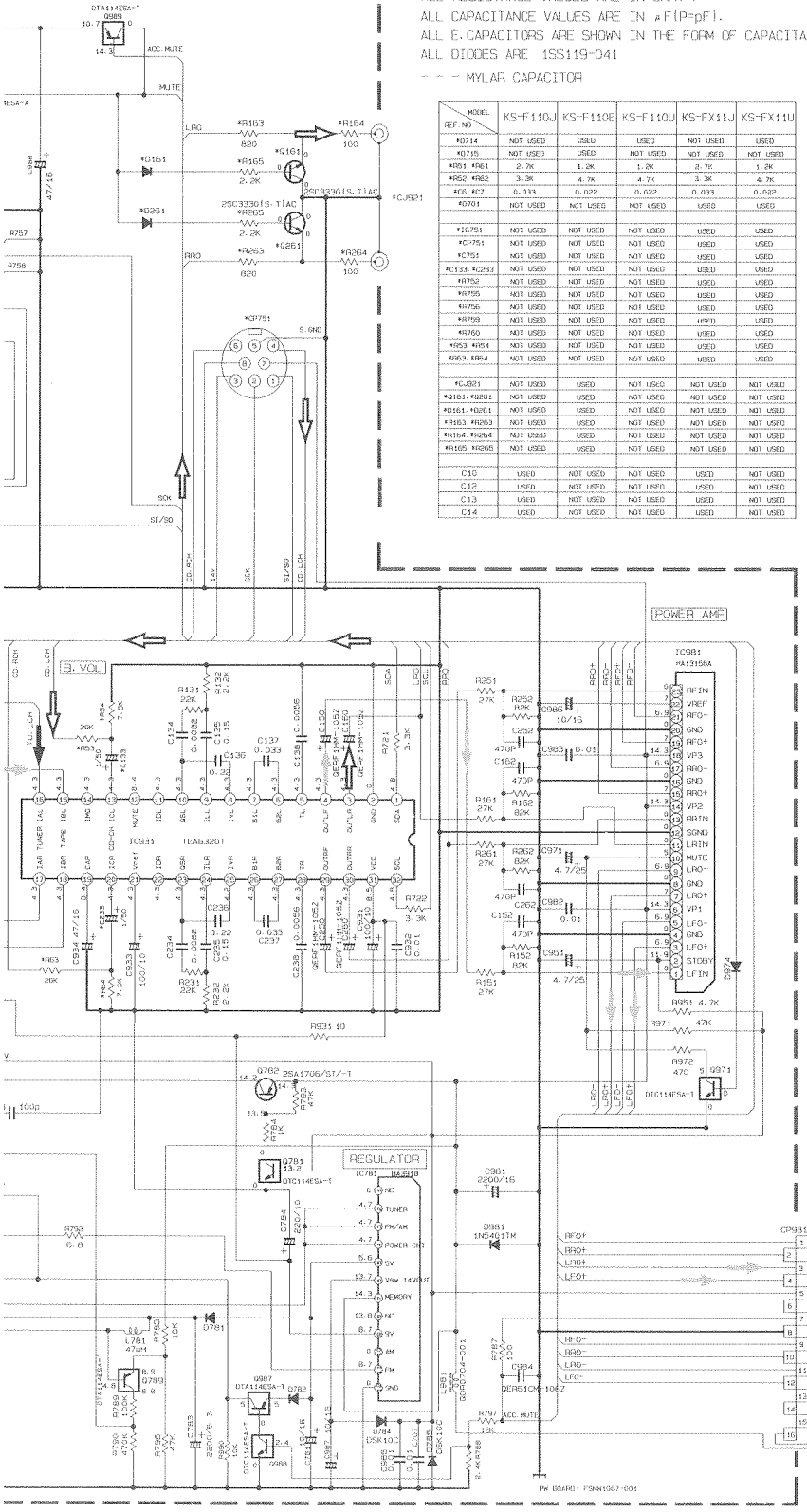
■Receiver & Operation Switch Circuit : Drawing No. FSDH3067-006AW



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION - - - FM MODE. (AM 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
   - - - MYLAR CAPACITOR

MODEL / REF.NO	KS-F110J	KS-F110E	KS-F110U	KS-FX11J	KS-FX11U
*D714	NOT USED	USED	USED	NOT USED	USED
*D715	NOT USED	USED	NOT USED	NOT USED	NOT USED
*R51, *R61	2.7K	1.2K	1.2K	2.7K	1.2K
*R52, *R62	3.3K	4.7K	4.7K	3.3K	4.7K
*C6, *C7	0.033	0.022	0.022	0.033	0.022
*D701	NOT USED	NOT USED	NOT USED	USED	USED
*IC751	NOT USED	NOT USED	NOT USED	USED	USED
*CP751	NOT USED	NOT USED	NOT USED	USED	USED
*C751	NOT USED	NOT USED	NOT USED	USED	USED
*C133, *C233	NOT USED	NOT USED	NOT USED	USED	USED
*R752	NOT USED	NOT USED	NOT USED	USED	USED
*R755	NOT USED	NOT USED	NOT USED	USED	USED
*R756	NOT USED	NOT USED	NOT USED	USED	USED
*R759	NOT USED	NOT USED	NOT USED	USED	USED
*R760	NOT USED	NOT USED	NOT USED	USED	USED
*R53, *R54	NOT USED	NOT USED	NOT USED	USED	USED
*R63, *R64	NOT USED	NOT USED	NOT USED	USED	USED
*CJ921	NOT USED	USED	NOT USED	NOT USED	NOT USED
*Q161, *Q261	NOT USED	USED	NOT USED	NOT USED	NOT USED
*D161, *D261	NOT USED	USED	NOT USED	NOT USED	NOT USED
*R163, *R263	NOT USED	USED	NOT USED	NOT USED	NOT USED
*R164, *R264	NOT USED	USED	NOT USED	NOT USED	NOT USED
*R165, *R265	NOT USED	USED	NOT USED	NOT USED	NOT USED
C10	USED	NOT USED	NOT USED	USED	NOT USED
C12	USED	NOT USED	NOT USED	USED	NOT USED
C13	USED	NOT USED	NOT USED	USED	NOT USED
C14	USED	NOT USED	NOT USED	USED	NOT USED



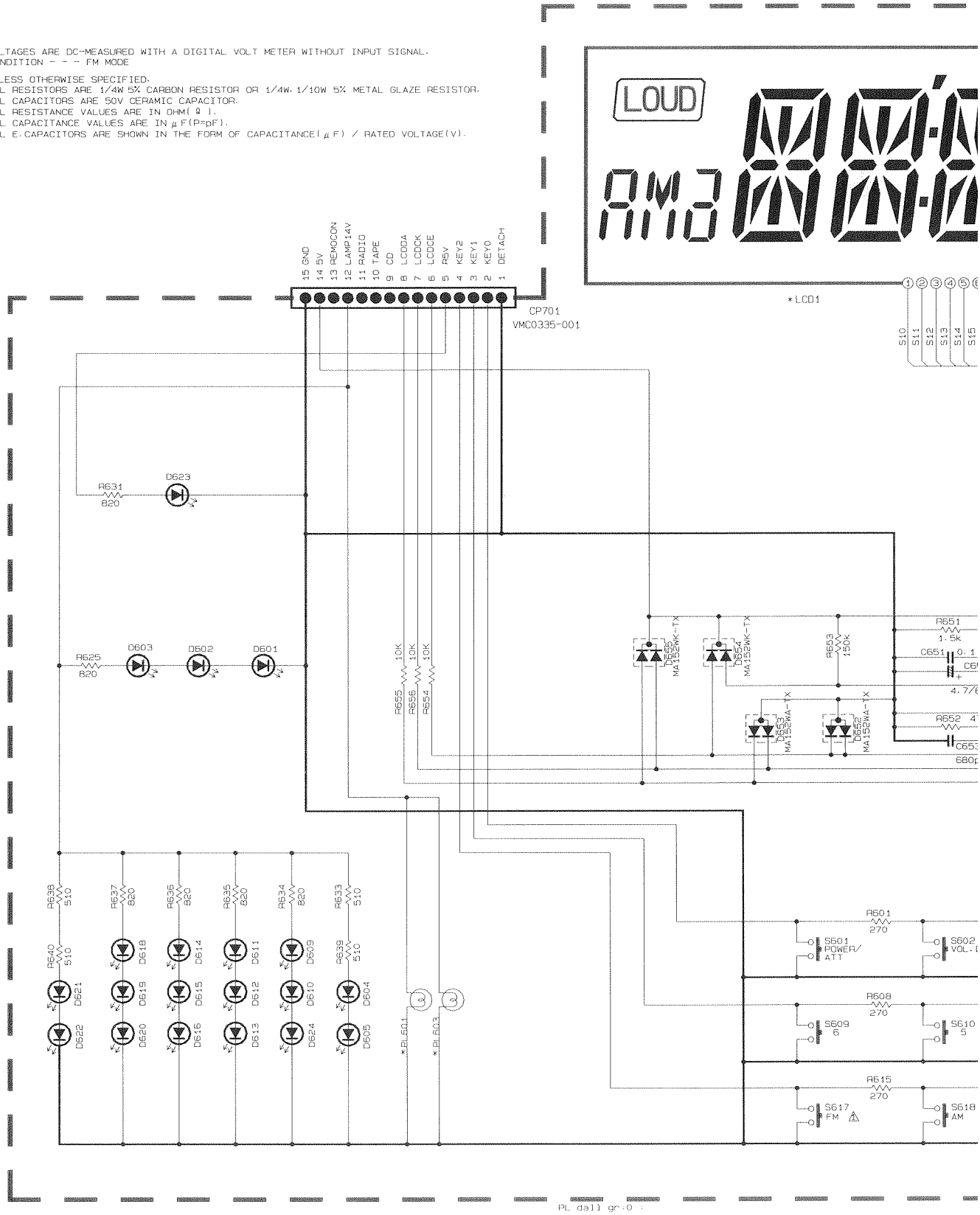
FM Radio Signal
AM Radio Signal
CD Signal
Tape PB/Main Signal

D E F G H

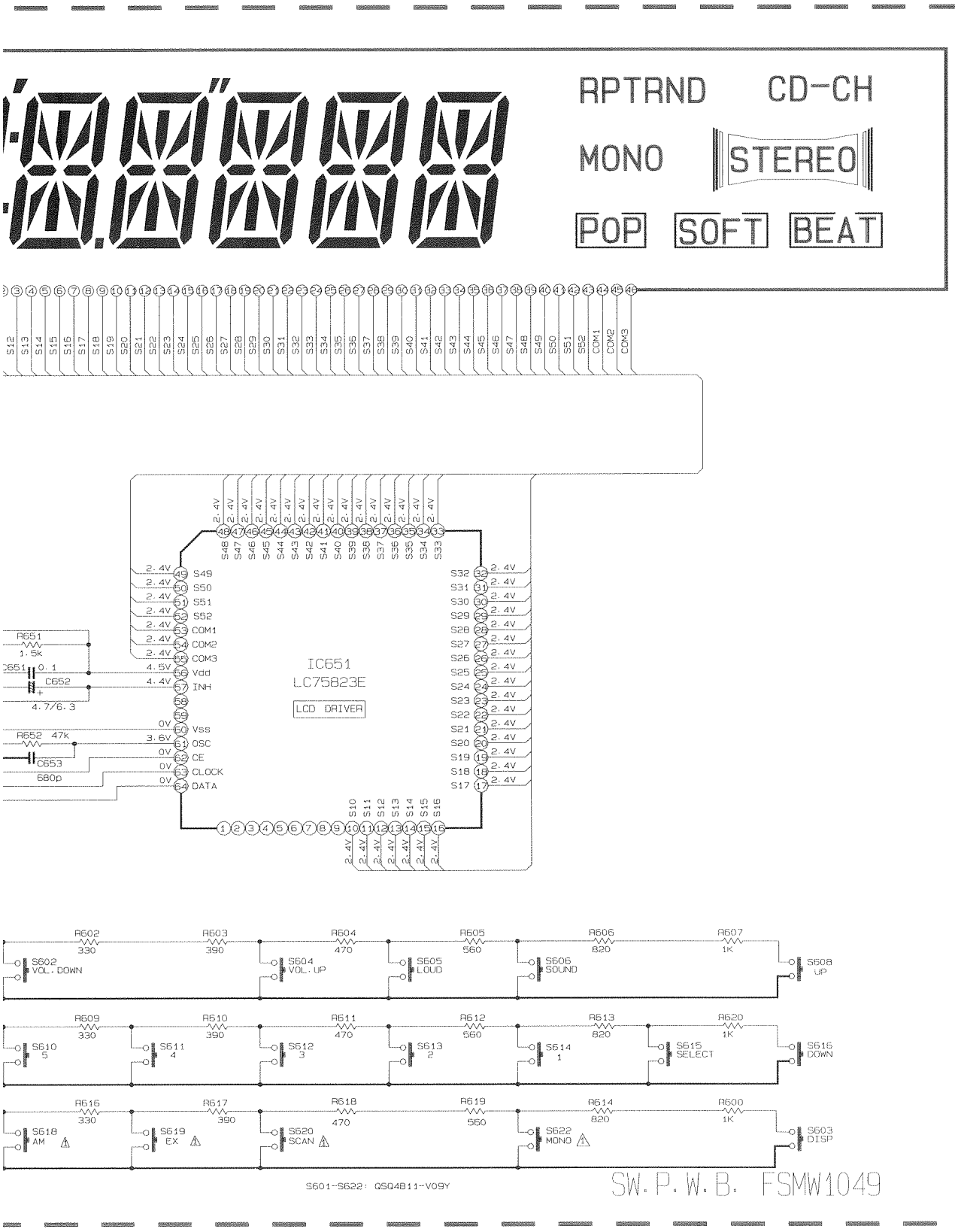
■LCD Driver & Operation Switch Circuit : Drawing No.FSDH3067-006SW

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION - - - FM MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/4W 5% CARBON RESISTOR OR 1/4W, 1/10W 5% METAL GLAZE 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).

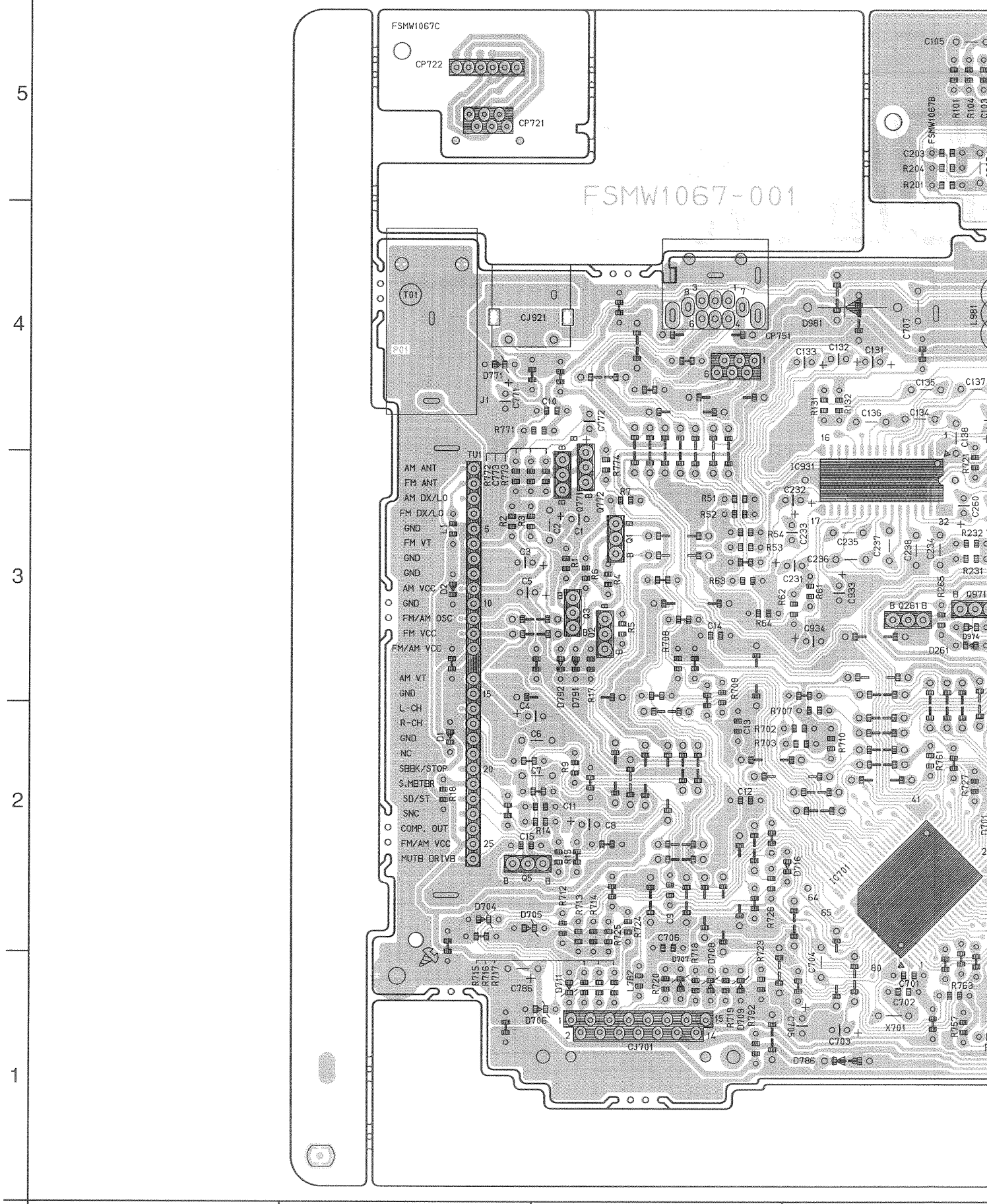


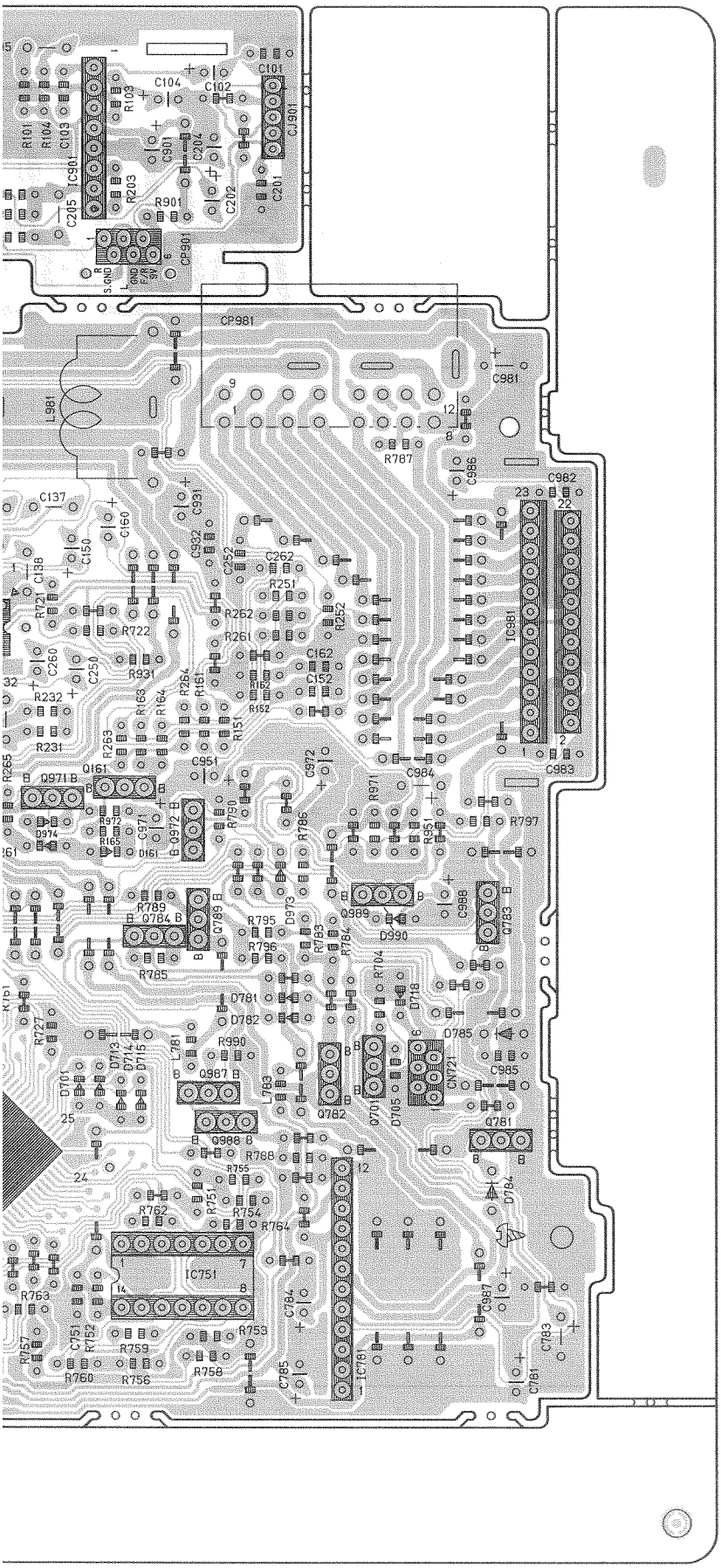
Ref. No. \ Version	KS-FX11J/U KS-F110J/U	KS-F110E
*PL601, *PL603	QLL0038-001	QLL0033-002
*LCD1	QLD0035-001	QLD0035-001


RPTRND
CD-CH
MONO
STEREO
POP
SOFT
BEAT
IC651
LC75823E
LCD DRIVER
R651 1.5k
C651 0.1
C652 4.7/6.3
R652 47k
C653 680p
R602 330 S602 VOL. DOWN
R603 390
R604 470 S604 VOL. UP
R605 560 S605 LOUD
R606 820 S606 SOUND
R607 1K S608 UP
R609 330 S610 5
R610 390 S611 4
R611 470 S612 3
R612 560 S613 2
R613 820 S614 1
R620 1K S615 SELECT S616 DOWN
R616 330 S618 AM
R617 390 S619 EX
R618 470 S620 SCAN
R619 560
R614 820 S622 MONO
R600 1K S603 DISP
S601-S622: QSQ4B11-V09Y
SW.P.W.B. FSMW1049

Printed Circuit Boards

■ Main P.C.Board




C104
C102
C101
R103
R101
R104
C103
C901
C204
C201
C202
C205
R203
R901
CP901
S-GND
GND
F/R
5V
CP981
C981
L981
R787
C986
C982
C137
C931
C160
C150
C138
C932
C252
C262
R251
R262
R261
R252
R722
R121
C260
C250
R931
C162
C152
R232
R231
R263
R264
R161
R163
R164
R151
R152
C951
C972
C984
R971
R797
R791
R790
R786
C971
D974
D161
Q971
Q972
Q161
R165
R789
Q784
Q789
R785
R795
D973
R796
R793
R784
Q989
D990
C988
Q783
R727
D781
D782
R990
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D713
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R704
D718
CN721
D785
C985
Q781
D784
Q988
R788
R755
R751
R754
R762
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IC751
R763
R752
C751
R757
R759
R760
R756
R758
C784
C785
IC781
C987
C783
C781
IC981
C983
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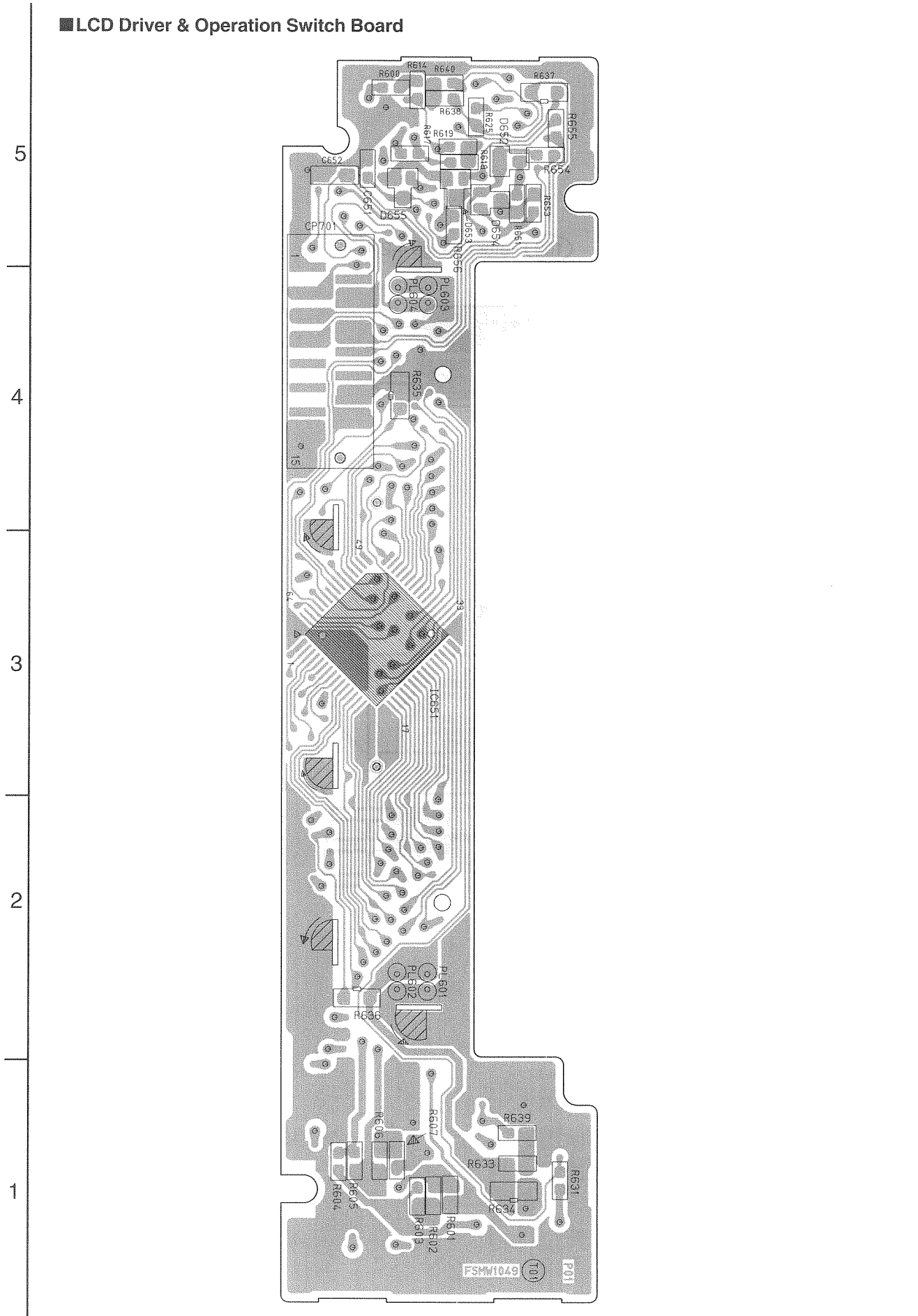
D E F G H

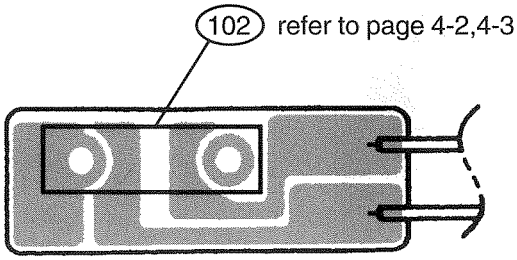
■LCD Driver & Operation Switch Board



■Cassette Mechanism Board (Reference)

5

● Mute Board



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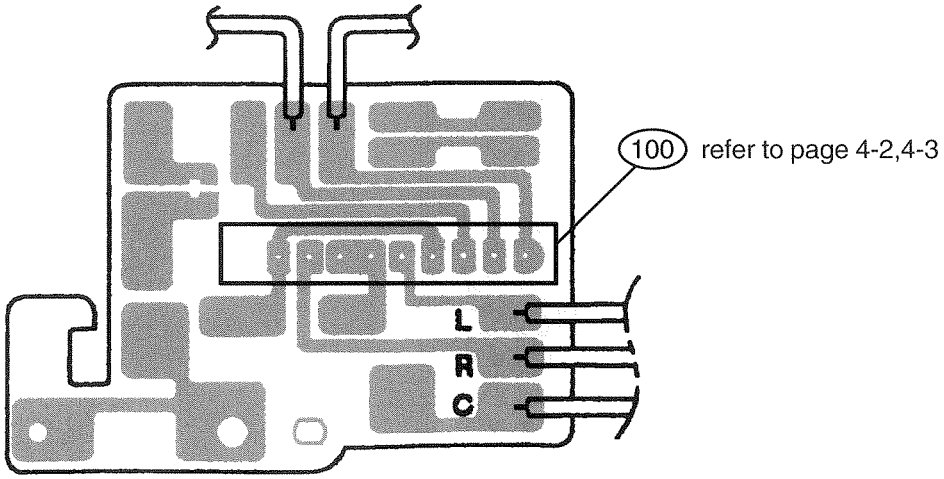
● Direction Switch Board



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A B C D

PARTS LIST

[KS-F110/KS-FX11]

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

Area Suffix

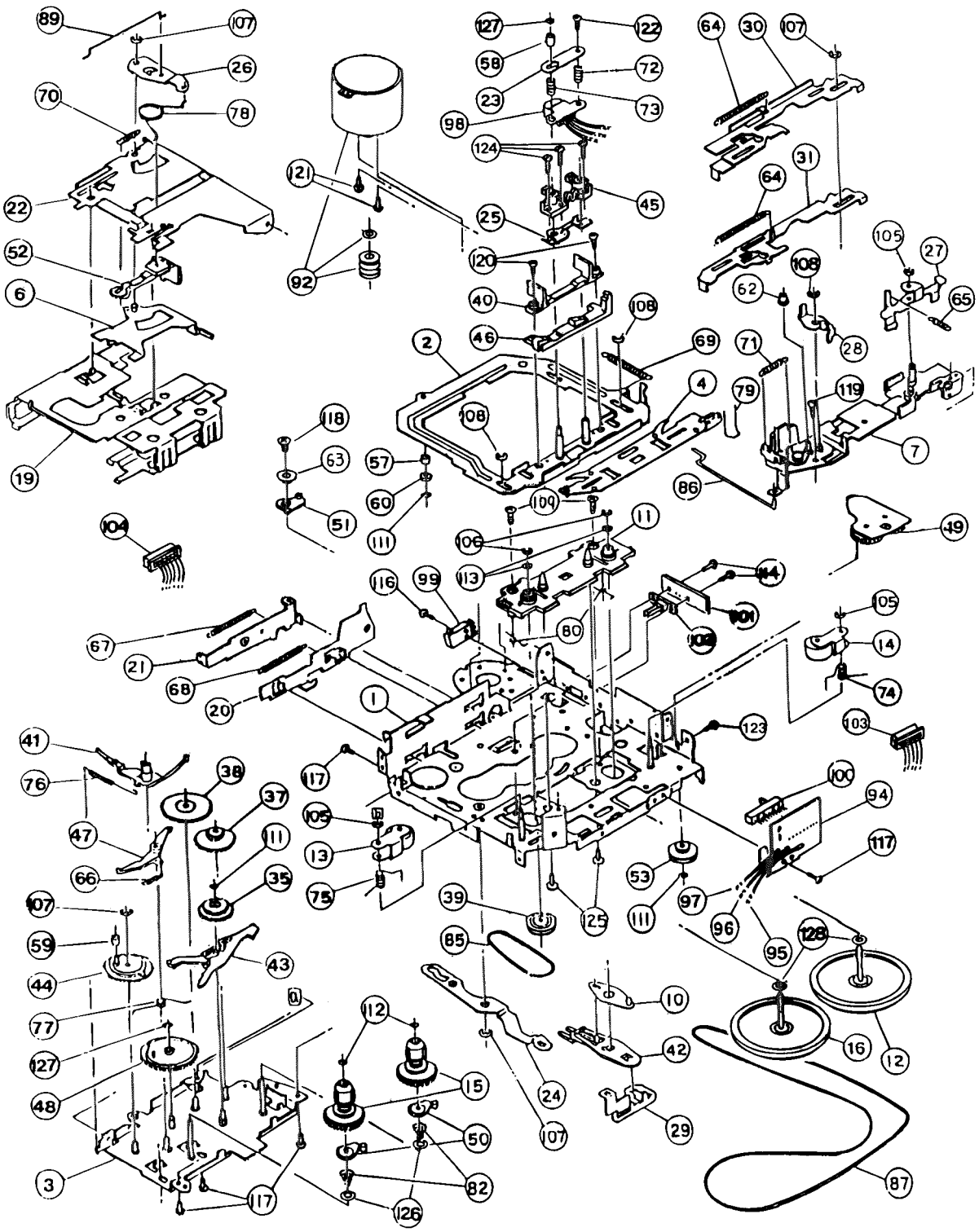
E .....Continental Europe
(KS-F110 only)
J .....Northern America
U.....Other Areas

- Contents -

Cassette Mechanism Ass'y and Parts List

Block No. M 2 M M

VDL3650201M/sinwa/cds-36sj



■ Parts List

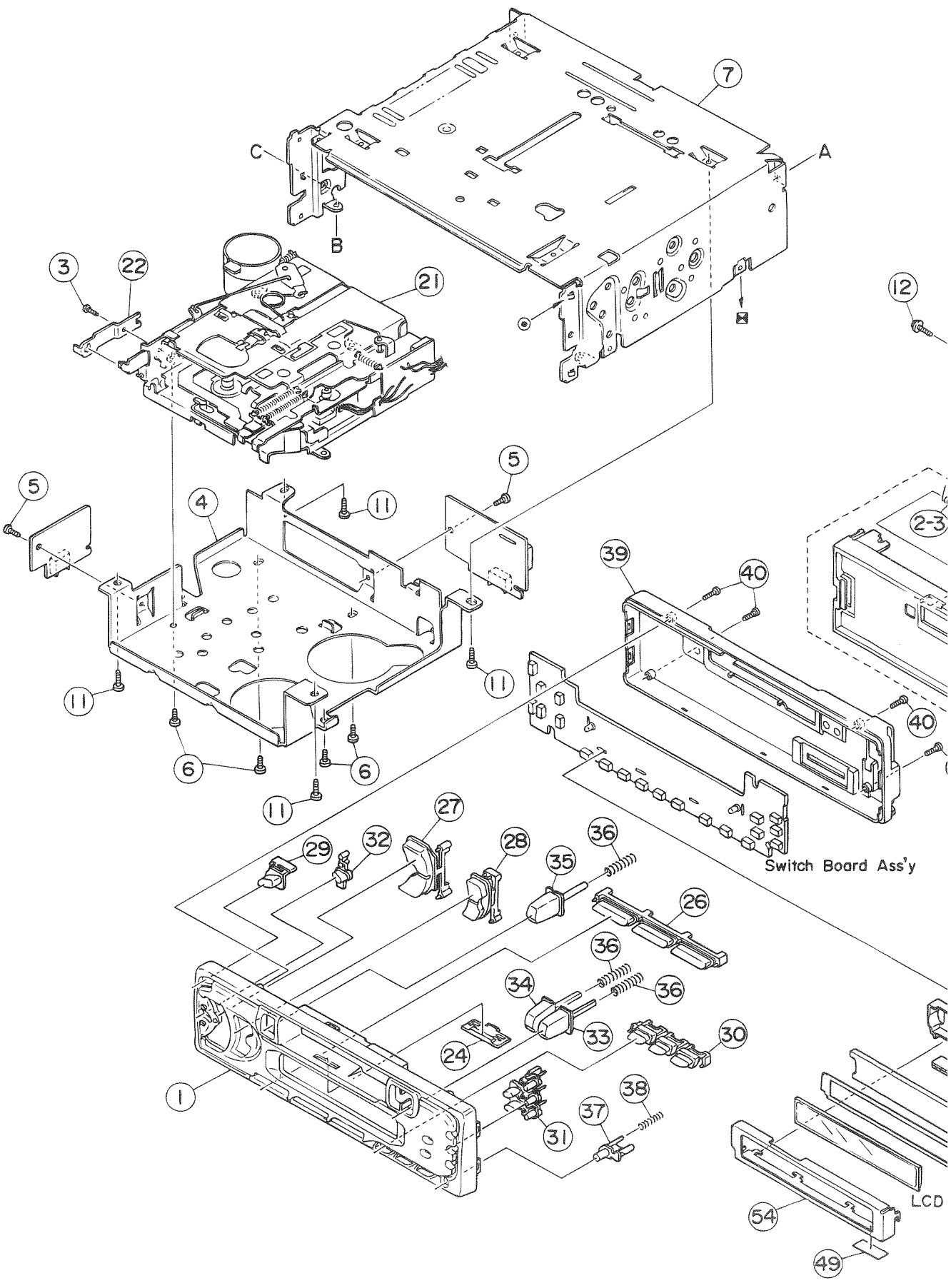
BLOCK NO. M2MM[ ][ ][ ]

⚠	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		
	68	1-0036-4005S	EJECT CAM SPG		1		

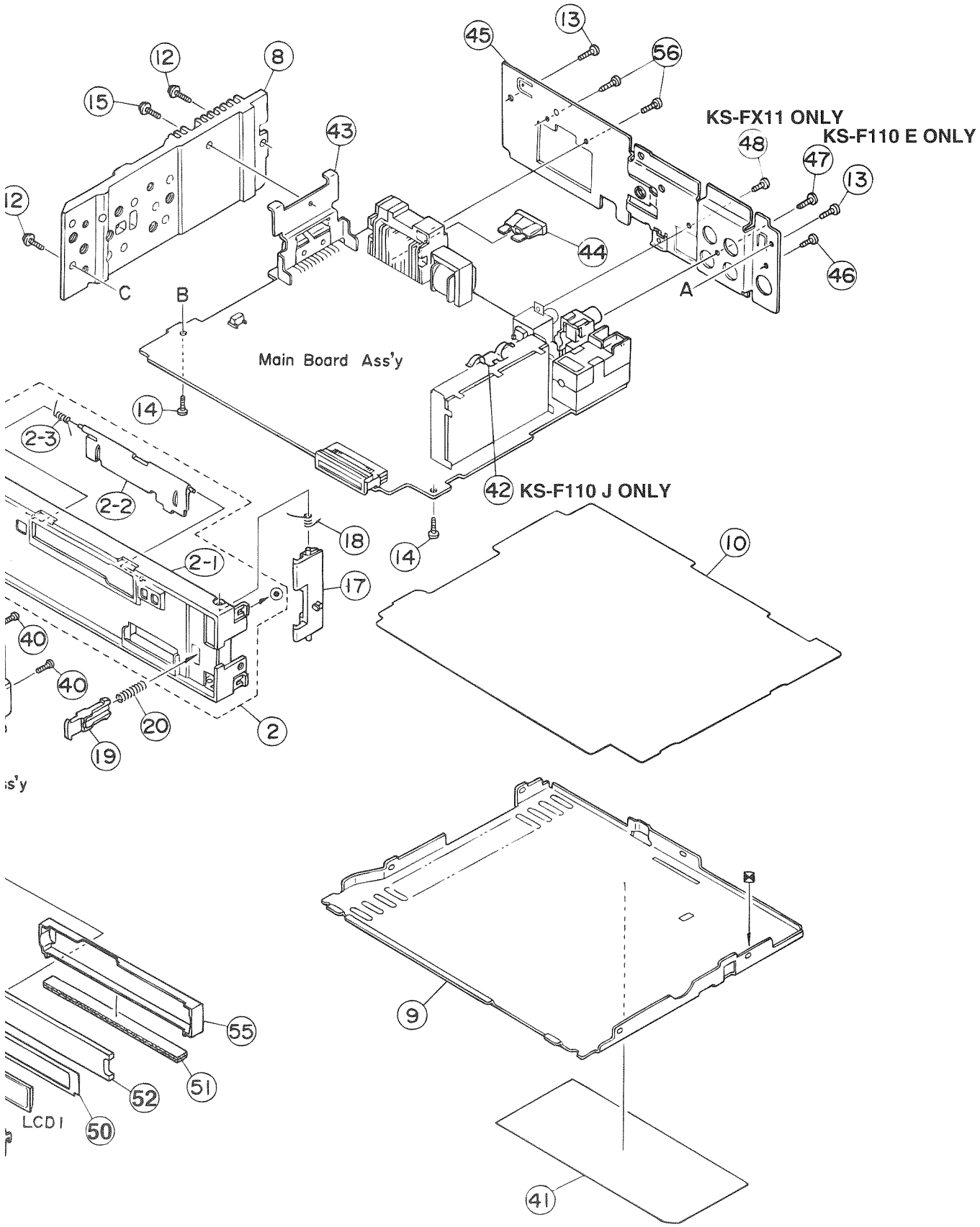
BLOCK NO. M2MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	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		1		
	94	1-0036-7001S	SW PWB		1		
	95	1-0036-7002S	WIRE(A)	BLACK 60MM	1		
	96	1-0036-7003S	WIRE(B)	RED 60MM	1		
	97	1-0036-7004S	WIRE(C)	YELLOW 55MM	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		
	103	1-0036-7088S	5P WIRE ASY(JVC		1		
	104	1-0036-7089S	6P WIRE ASY(JVC		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	POLY WASHER(S)	1.2X3X0.25	3		
	112	1-0036-5023S	PSW(REEL)	1.5X3.2X0.2	2		
	113	2-1821-0032-21S	PSW	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	LMW(RED)	2.1X3.5X0.05	2		
	127	1-0036-5024S	PSW(REEL)	1.5X3.2X0.25	2		
	128	1-0036-5028S	LMW(FLY)	2.1X5.5X0.05	2		

General Exploded View and Parts List



Block No. M 1 M M



D E F G H

■ **Parts List**

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	FSJC3012-00G	F PANEL ASS'Y	KS-FX11 ONLY	1		
		FSJC3012-00D	FRONT PANEL ASY	KS-F110 ONLY	1		
	2	ZCKSFX11J-FB	FRONT CHAS.ASSY	KS-FX11 ONLY	1		
		ZCKSF110J-FB	FRONT CHAS.ASSY	KS-F110 ONLY	1		
	2-1	FSJC2011-003	FRONT CHASSIS		1		
	2-2	FSJC4003-027	CASSETTE LID	KS-FX11 ONLY	1		
		FSJC4003-029	CASSETTE LID	KS-F110 ONLY	1		
	2-3	VKW4947-002	DOOR SPRING		1		
	3	QYSPSPT2625Z	MINI SCREW		1		
	4	FSKM2005-002	MECHA BRACKET		1		
	5	QYSDST2605Z	SCREW	PCB+MECHA	2		
	6	QYSDSP2604Z	SCREW	MECHA+M.BKT	4		
	7	FSJC1029-012	TOP CHASSIS		1		
	8	FSMH3001-001	HEAT SINK		1		
	9	FSKM3011-001	BOTTOM COVER		1		
	10	FSMA3004-003	INSULATOR		1		
	11	QYSDST2605Z	SCREW	CHASSIS+MECHA B	4		
	12	FSKZ4005-001	SCREW	CHASSIS+SIDE PA	2		
	13	QYSDST2606Z	SCREW	CHASSIS+REAR BK	2		
	14	QYSDST2606Z	SCREW	CHASSIS+MAIN PW	2		
	15	FSKZ4005-001	SCREW	SIDE PANEL+IC B	1		
	17	FSKS3004-202	LOCK LEVER		1		
	18	FSKW4005-003	TORSION SPRING		1		
	19	FSXP3026-002	RLS KNOB		1		
	20	FSKW3002-004	COMP.SPRING		1		
	21	----------	CASSETTE MECHA		1		
	22	VKL7821-001	EJECT LEVER		1		
	24	FSJK3014-001	LIGHT LENS		1		
	26	FSXP2025-002	PRESET BUTTON	1/2/3/4/5/6	1		
	27	FSXP2033-001	+/- BUTTON		1		
	28	FSXP2026-001	UP/DOWN BUTTON	KS-F110 ONLY	1		
		FSXP2026-002	UP/DOWN BUTTON	KS-FX11 ONLY	1		
	29	FSXP3044-002	POWER BUTTON		1		
	30	FSXP2029-003	D.FUNC BUTTON	KS-F110 ONLY	1	J,U	
		FSXP2029-006	D FUNC BUTTON	KS-FX11 ONLY	1		
		FSXP2029-012	D.FUNC BUTTON	KS-F110 ONLY	1	E	
	31	FSXP2030-202	PUSH BUTTON		1		
	32	FSXP3040-001	SEL BUTTON		1	J,U	
		FSXP3040-003	SEL BUTTON		1	E	
	33	FSXP3046-001	F.F.BUTTON		1		
	34	FSXP3047-001	REWIND BUTTON		1		
	35	FSXP3048-001	EJECT BUTTON		1		
	36	FSKW3002-003	COMP. SPRING		3	J,U	
		FSKW3002-011	COMP. SPRING		3	E	
	37	FSXP3049-002	DETACH BUTTON		1		
	38	FSKW3002-008	COMP.SPRING	FOR DETACH BUTT	1		
	39	FSJC1033-001	REAR COVER		1		
	40	VKZ4777-001	MINI SCREW	F.PANEL+REAR CO	4		
	41	FSYN3067-006	NAME PLATE	KS-F110 ONLY	1	J	
		FSYN3068-006	NAME PLATE	KS-FX11 ONLY	1	J	
		FSYN3067-D005	NAME PLATE	KS-F110 ONLY	1	E	
		FSYN3067-007	NAME PLATE	KS-F110 ONLY	1	U	
		FSYN3068-007	NAME PLATE	KS-FX11 ONLY	1	U	
	42	VMA4652-001SS	EARTH PLATE	KS-F110 ONLY	1	J	
	43	FSKL4018-00A	IC BRACKET		1		

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	44	QMFZ021-100-J1	FUSE		1		
	45	FSKM3010-001	REAR BRACKET	KS-FX11 ONLY	1		
		FSKM3010-003	REAR BRACKET	KS-F110 ONLY	1		
	46	QYSDST2606Z	SCREW	REAR BKT+ANT JA	1		
	47	QYSDSF3006Z	SCREW	KS-F110 ONLY	1	E	
	48	QYSDST2606Z	SCREW	KS-FX11 ONLY	1		
	49	FSYH4036-016	SPACER		1		
	50	FSYH4053-001	LIGHTING SHEET		1		
	51	QNZ0101-001	LCD CONNECTOR		1		
	52	FSJK3021-001	LCD LENS		1		
	54	FSYH3015-002	LCD CASE		1		
	55	VKS3750-003	LENS CASE		1		
	56	QYSDSP2606Z	SCREW	REAR BKT+15P CN	2		
	LCD 1	QLD0035-001	LCD		1		

■Main P.C.Board (J/U Version)

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 2	QDX11EK-223Z	C CAPACITOR		
	C 3	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 4	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 5	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 6	QDX11EK-223Z	C CAPACITOR		U
	C 6	QDX11EK-333Z	C CAPACITOR		J
	C 7	QDX11EK-333Z	C CAPACITOR		J
	C 7	QDX11EK-223Z	C CAPACITOR		U
	C 8	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 9	QDYB1CM-103Y	C CAPACITOR		
	C 10	QCSB1HK-8R2Y	C CAPACITOR	KS-FX11 ONLY	
	C 11	QDYB1CM-103Y	C CAPACITOR		
	C 12	QCBB1HK-101Y	C CAPACITOR	KS-FX11 ONLY	
	C 13	QCBB1HK-101Y	C CAPACITOR	KS-FX11 ONLY	
	C 14	QCBB1HK-101Y	C CAPACITOR	KS-FX11 ONLY	
	C 15	QDYB1CM-103Y	C CAPACITOR		
	C 101	QDGB1HK-821Y	C CAPACITOR		
	C 102	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C 103	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 104	QERFOJM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 105	QFV41HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C 131	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 132	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 133	QER41HM-105	E CAPACITOR	KS-FX11 ONLY	
	C 134	QFLK1HJ-822Z	M CAPACITOR	8200PF 5% 50V	
	C 135	QFV61HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
	C 136	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 137	QFV41HJ-333	TF CAPACITOR	.033MF 5% 50V	
	C 138	QFLK1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C 150	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 152	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 160	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 162	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 201	QDGB1HK-821Y	C CAPACITOR		
	C 202	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C 203	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 204	QERFOJM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 205	QFV41HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C 231	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 232	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 233	QER41HM-105	E CAPACITOR	KS-FX11 ONLY	
	C 234	QFLK1HJ-822Z	M CAPACITOR	8200PF 5% 50V	
	C 235	QFV61HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
	C 236	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 237	QFV41HJ-333	TF CAPACITOR	.033MF 5% 50V	
	C 238	QFLK1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C 250	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 252	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 260	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 262	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 701	QDUB1HJ-270Y	C CAPACITOR		
	C 702	QDCB1HJ-220Y	C CAPACITOR		
	C 703	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 704	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 705	QER41CM-106	E CAPACITOR	10MF 20% 16V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 706	QDYB1CM-103Y	C CAPACITOR		
	C 707	QFV41HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C 751	QDYB1CM-103Y	C CAPACITOR	KS-FX11 ONLY	
	C 771	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 772	QER41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 773	QDGB1HK-102Y	C CAPACITOR		
	C 781	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 783	QETNOJM-228Z	E CAPACITOR	2200MF 20% 6.3V	
	C 784	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 786	QET41AM-228	E CAPACITOR	2200MF 20% 10V	
	C 901	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 931	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 932	QDYB1CM-103Y	C CAPACITOR		
	C 933	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 934	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C 951	QER41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 971	QER41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 972	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 981	QEZ0337-228	E CAPACITOR	2200MF	
	C 982	QDYB1CM-103Y	C CAPACITOR		
	C 983	QDYB1CM-103Y	C CAPACITOR		
	C 984	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 985	QDYB1CM-103Y	C CAPACITOR		
	C 986	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 987	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 988	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	CJ701	VMC0334-001	CONNECTOR	TO FRONT PANEL	
	CJ901	QGA2002C1-05	CONNECTOR		
	CN721	QGB1214J1-06S	CONNECTOR	TO MECHA	
	CN901	QGB1214J1-06S	CONNECTOR	TO MECHA	
	CP721	QGB1214K1-06S	CONNECTOR		
	CP722	QGA2002F1-06	CONNECTOR		
	CP751	QNZ0095-001	CONNECTOR	KS-FX11 ONLY	
	CP901	QGB1214K1-06S	CONNECTOR		
	CP981	QNZ0002-001	16P CONNECTOR		
	D 1	1SS119-041	SI DIODE		
	D 2	1SS119-041	SI DIODE		
	D 701	1SS119-041	SI DIODE	KS-FX11 ONLY	
	D 704	MTZJ5.6B-T2	ZENER DIODE		
	D 705	MTZJ5.6B-T2	ZENER DIODE		
	D 706	MTZJ5.6B-T2	ZENER DIODE		
	D 707	MTZJ5.6B-T2	ZENER DIODE		
	D 708	MTZJ5.6B-T2	ZENER DIODE		
	D 709	MTZJ5.6B-T2	ZENER DIODE		
	D 711	MTZJ5.6B-T2	ZENER DIODE		
	D 714	1SS119-041	SI DIODE		U
	D 716	1SS119-041	SI DIODE		
	D 718	1SS119-041	SI DIODE		
	D 771	MTZJ9.1C-T2	ZENER DIODE		
	D 781	1SS119-041	SI DIODE		
	D 782	1SS119-041	SI DIODE		
	D 784	DSK10C-T1	DIODE		
	D 785	DSK10C-T1	DIODE		
	D 786	DSK10C-T1	DIODE		
	D 791	1SS119-041	SI DIODE		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 792	1SS119-041	SI DIODE		
	D 973	1SS119-041	SI DIODE		
	D 974	1SS119-041	SI DIODE		
	D 981	1N5401-TM	DIODE		
	D 990	MTZ11B-T2	SI DIODE		
	IC701	LC72362N-9369	IC	KS-F110 ONLY	
	IC701	LC72362N-9495	IC	KS-FX11 ONLY	
	IC751	HD74HC126P	IC	KS-FX11 ONLY	
	IC781	BA3918-V1	IC	REGULATOR	
	IC901	UPC1228HA	IC		
	IC931	TEA6320T-X	IC		
	IC981	HA13158A			
	J 1	QNZ0009-001	CAR ANT JACK		
	L 1	QQL231K-4R7Y	INDUCTOR		
	L 781	QQL231K-470Y	INDUCTOR		
	L 782	QQL231K-470Y	INDUCTOR		
	L 783	QQL231K-470Y	INDUCTOR		
	L 981	QQR0704-001	CHOKE COIL		
	Q 1	2SA1706/ST/-T	TRANSISTOR		
	Q 2	DTC114ESA-T	D.TRANSISTOR		
	Q 3	2SA1317/ST/-T	TRANSISTOR *		
	Q 5	DTC114ESA-T	D.TRANSISTOR		
	Q 701	2SC3330/ST/-T	TRANSISTOR		
	Q 701	2SC3330/ST/-T	TRANSISTOR	KS-FX11 ONLY	
	Q 771	2SC3330/ST/-T	TRANSISTOR		
	Q 772	2SC3330/ST/-T	TRANSISTOR		
	Q 781	DTC114ESA-T	D.TRANSISTOR		
	Q 782	2SA1706/ST/-T	TRANSISTOR		
	Q 783	DTC114ESA-T	D.TRANSISTOR		
	Q 784	2SA1706/ST/-T	TRANSISTOR		
	Q 789	DTA114ESA-T	D.TRANSISTOR		
	Q 971	DTC114ESA-T	D.TRANSISTOR		
	Q 972	DTA114ESA-T	D.TRANSISTOR		
	Q 987	DTA114ESA-T	D.TRANSISTOR		
	Q 988	DTC114ESA-T	D.TRANSISTOR		
	Q 989	DTA114ESA-T	D.TRANSISTOR		
	R 1	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 2	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 3	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 4	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 5	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 6	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 9	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 14	QRE141J-155Y	C RESISTOR	1.5M 5% 1/4W	
	R 15	QRE141J-475Y	C RESISTOR	4.7M 5% 1/4W	
	R 17	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 18	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 51	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	U
	R 51	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	J
	R 52	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	U
	R 52	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	J
	R 53	QRE141J-203Y	C RESISTOR	KS-FX11 ONLY	
	R 54	QRE141J-752Y	C RESISTOR	KS-FX11 ONLY	
	R 61	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	J
	R 61	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	U

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 62	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	J
	R 62	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	U
	R 63	QRE141J-203Y	C RESISTOR	KS-FX11 ONLY	
	R 64	QRE141J-752Y	C RESISTOR	KS-FX11 ONLY	
	R 101	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 103	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 104	QRE141J-334Y	C RESISTOR	330K 5% 1/4W	
	R 131	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 132	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 151	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 152	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 161	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 162	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 201	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 203	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 204	QRE141J-334Y	C RESISTOR	330K 5% 1/4W	
	R 231	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 232	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 251	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 252	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 261	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 262	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 702	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 703	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 704	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 705	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 707	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 708	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 709	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 710	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 712	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 713	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 714	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 715	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 716	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 717	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 718	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 719	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 720	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 721	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 722	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 723	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 724	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 725	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 726	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 727	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 751	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 752	QRE141J-103Y	C RESISTOR	KS-FX11 ONLY	
	R 753	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 754	QRE141J-334Y	C RESISTOR	330K 5% 1/4W	
	R 755	QRE141J-101Y	C RESISTOR	KS-FX11 ONLY	
	R 756	QRE141J-101Y	C RESISTOR	KS-FX11 ONLY	
	R 757	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 758	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 759	QRE141J-101Y	C RESISTOR	KS-FX11 ONLY	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 760	QRE141J-103Y	C RESISTOR	KS-FX11 ONLY	
	R 761	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 762	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 763	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 764	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 771	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 772	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 773	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 774	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 783	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 784	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 785	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 786	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 787	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 788	QRE141J-182Y	C RESISTOR	KS-FX11 ONLY	
	R 788	QRE141J-242Y	C RESISTOR	KS-F110 ONLY	
	R 789	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 790	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 792	QRE141J-6R8Y	C RESISTOR	6.8 5% 1/4W	
	R 795	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 796	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 797	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R 901	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 931	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 951	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 971	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 972	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 990	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	TU 1	QAU0120-002	TUNER PACK		
	X 701	QAX0406-001Z	CRYSTAL		

■Main P.C.Board (E Version)

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 2	QDX11EK-223Z	C CAPACITOR		
	C 3	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 4	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 5	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 6	QDX11EK-223Z	C CAPACITOR		
	C 7	QDX11EK-223Z	C CAPACITOR		
	C 8	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 9	QDYB1CM-103Y	C CAPACITOR		
	C 11	QDYB1CM-103Y	C CAPACITOR		
	C 15	QDYB1CM-103Y	C CAPACITOR		
	C 101	QDGB1HK-821Y	C CAPACITOR		
	C 102	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C 103	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 104	QERF0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 105	QFV41HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C 131	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 132	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 134	QFLK1HJ-822Z	M CAPACITOR	8200PF 5% 50V	
	C 135	QFV61HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
	C 136	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 137	QFV41HJ-333	TF CAPACITOR	.033MF 5% 50V	
	C 138	QFLK1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C 150	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 152	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 160	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 162	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 201	QDGB1HK-821Y	C CAPACITOR		
	C 202	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C 203	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 204	QERF0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 205	QFV41HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C 231	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 232	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 234	QFLK1HJ-822Z	M CAPACITOR	8200PF 5% 50V	
	C 235	QFV61HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
	C 236	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 237	QFV41HJ-333	TF CAPACITOR	.033MF 5% 50V	
	C 238	QFLK1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C 250	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 252	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 260	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 262	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 701	QDUB1HJ-270Y	C CAPACITOR		
	C 702	QDCB1HJ-220Y	C CAPACITOR		
	C 703	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 704	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
	C 705	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 706	QDYB1CM-103Y	C CAPACITOR		
	C 707	QFV41HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C 771	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 772	QER41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 773	QDGB1HK-102Y	C CAPACITOR		
	C 781	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 783	QETN0JM-228Z	E CAPACITOR	2200MF 20% 6.3V	
	C 784	QER41AM-227	E CAPACITOR	220MF 20% 10V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 786	QET41AM-228	E CAPACITOR	2200MF 20% 10V	
	C 901	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 931	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 932	QDYB1CM-103Y	C CAPACITOR		
	C 933	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 934	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C 951	QER41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 971	QER41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 972	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 981	QEZ0337-228	E CAPACITOR	2200MF	
	C 982	QDYB1CM-103Y	C CAPACITOR		
	C 983	QDYB1CM-103Y	C CAPACITOR		
	C 984	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 985	QDYB1CM-103Y	C CAPACITOR		
	C 986	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 987	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 988	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	CJ701	VMC0334-001	CONNECTOR	TO FRONT PANEL	
	CJ901	QGA2002C1-05	CONNECTOR		
	CJ921	QNN0183-001	PIN JACK		
	CN721	QGB1214J1-06S	CONNECTOR	TO MECHA	
	CN901	QGB1214J1-06S	CONNECTOR	TO MECHA	
	CP721	QGB1214K1-06S	CONNECTOR		
	CP722	QGA2002F1-06	CONNECTOR		
	CP901	QGB1214K1-06S	CONNECTOR		
	CP981	QNZ0002-001	16P CONNECTOR		
	D 1	1SS119-041	SI DIODE		
	D 2	1SS119-041	SI DIODE		
	D 161	1SS119-041	SI DIODE	REAR	
	D 261	1SS119-041	SI DIODE	REAR	
	D 704	MTZJ5.6B-T2	ZENER DIODE		
	D 705	MTZJ5.6B-T2	ZENER DIODE		
	D 706	MTZJ5.6B-T2	ZENER DIODE		
	D 707	MTZJ5.6B-T2	ZENER DIODE		
	D 708	MTZJ5.6B-T2	ZENER DIODE		
	D 709	MTZJ5.6B-T2	ZENER DIODE		
	D 711	MTZJ5.6B-T2	ZENER DIODE		
	D 714	1SS119-041	SI DIODE		
	D 715	1SS119-041	SI DIODE		
	D 716	1SS119-041	SI DIODE		
	D 718	1SS119-041	SI DIODE		
	D 771	MTZJ9.1C-T2	ZENER DIODE		
	D 781	1SS119-041	SI DIODE		
	D 782	1SS119-041	SI DIODE		
	D 784	DSK10C-T1	DIODE		
	D 785	DSK10C-T1	DIODE		
	D 786	DSK10C-T1	DIODE		
	D 791	1SS119-041	SI DIODE		
	D 792	1SS119-041	SI DIODE		
	D 973	1SS119-041	SI DIODE		
	D 974	1SS119-041	SI DIODE		
	D 981	1N5401-TM	DIODE		
	D 990	MTZ11B-T2	SI DIODE		
	IC701	LC72362N-9369	IC		
	IC781	BA3918-V1	IC	REGULATOR	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	IC901	UPC1228HA	IC		
	IC931	TEA6320T-X	IC		
	IC981	HA13158A			
	J 1	QNZ0009-001	CAR ANT JACK		
	L 1	QQL231K-4R7Y	INDUCTOR		
	L 781	QQL231K-470Y	INDUCTOR		
	L 782	QQL231K-470Y	INDUCTOR		
	L 783	QQL231K-470Y	INDUCTOR		
	L 981	QQR0704-001	CHOKE COIL		
	Q 2	DTC114ESA-T	D.TRANSISTOR		
	Q 3	2SA1317/ST/-T	TRANSISTOR *		
	Q 5	DTC114ESA-T	D.TRANSISTOR		
	Q 161	2SC3330/ST/-T	TRANSISTOR	REAR	
	Q 261	2SC3330/ST/-T	TRANSISTOR	REAR	
	Q 701	2SC3330/ST/-T	TRANSISTOR		
	Q 771	2SC3330/ST/-T	TRANSISTOR		
	Q 772	2SC3330/ST/-T	TRANSISTOR		
	Q 781	DTC114ESA-T	D.TRANSISTOR		
	Q 782	2SA1706/ST/-T	TRANSISTOR		
	Q 783	DTC114ESA-T	D.TRANSISTOR		
	Q 784	2SA1706/ST/-T	TRANSISTOR		
	Q 789	DTA114ESA-T	D.TRANSISTOR		
	Q 971	DTC114ESA-T	D.TRANSISTOR		
	Q 972	DTA114ESA-T	D.TRANSISTOR		
	Q 987	DTA114ESA-T	D.TRANSISTOR		
	Q 988	DTC114ESA-T	D.TRANSISTOR		
	Q 989	DTA114ESA-T	D.TRANSISTOR		
	R 1	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 2	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 3	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 4	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 5	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 6	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 9	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 14	QRE141J-155Y	C RESISTOR	1.5M 5% 1/4W	
	R 15	QRE141J-475Y	C RESISTOR	4.7M 5% 1/4W	
	R 17	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 18	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 51	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 52	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 61	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 62	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 101	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 103	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 104	QRE141J-334Y	C RESISTOR	330K 5% 1/4W	
	R 131	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 132	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 151	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 152	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 161	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 162	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 163	QRE141J-821Y	C RESISTOR	820 5% 1/4W	
	R 164	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 165	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 201	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 203	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 204	QRE141J-334Y	C RESISTOR	330K 5% 1/4W	
	R 231	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 232	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 251	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 252	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 261	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 262	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 263	QRE141J-821Y	C RESISTOR	820 5% 1/4W	
	R 264	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 265	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 702	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 703	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 704	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 705	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 707	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 708	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 709	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 710	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 712	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 713	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 714	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 715	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 716	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 717	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 718	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 719	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 720	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 721	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 722	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 723	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 724	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 725	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 726	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 727	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 751	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 753	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 754	QRE141J-334Y	C RESISTOR	330K 5% 1/4W	
	R 757	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 758	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 761	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 762	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 763	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 764	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 771	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 772	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 773	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 774	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 783	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 784	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 785	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 786	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 787	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 788	QRE141J-242Y	C RESISTOR	2.4K 5% 1/4W	
	R 789	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 790	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 792	QRE141J-6R8Y	C RESISTOR	6.8 5% 1/4W	
	R 795	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 796	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 797	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R 901	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 931	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 951	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 971	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 972	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 990	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	TU 1	QAU0120-001	TUNER PACK		
	X 701	QAX0406-001Z	CRYSTAL		

■LCD Driver & Operation Switch Board (J/U Version)

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 651	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 652	NBE20JM-475X	TS E CAPACITOR		
	C 653	NCB21HK-681X	C CAPACITOR	680PF 10% 50V	
	CP701	VMC0335-001	CONNECTOR		
	D 601	SML-210FT/JKL/W	LED		
	D 602	SML-210FT/JKL/W	LED		
	D 603	SML-210FT/JKL/W	LED		
	D 604	SML-210FT/JKL/W	LED		
	D 605	SML-210FT/JKL/W	LED		
	D 609	SML-210FT/JKL/W	LED		
	D 610	SML-210FT/JKL/W	LED		
	D 611	SML-210FT/JKL/W	LED		
	D 612	SML-210FT/JKL/W	LED		
	D 613	SML-210FT/JKL/W	LED		
	D 614	SML-210FT/JKL/W	LED		
	D 615	SML-210FT/JKL/W	LED		
	D 616	SML-210FT/JKL/W	LED		
	D 618	SML-210FT/JKL/W	LED		
	D 619	SML-210FT/JKL/W	LED		
	D 620	SML-210FT/JKL/W	LED		
	D 621	SML-210FT/JKL/W	LED		
	D 622	SML-210FT/JKL/W	LED		
	D 623	SML-210LT/LM/-X	LED		
	D 624	SML-210FT/JKL/W	LED		
	D 652	MA152WA-X	DIODE		
	D 653	MA152WA-X	DIODE		
	D 654	MA152WK-X	SI DIODE		
	D 655	MA152WK-X	SI DIODE		
	IC651	LC75823E	IC		
	PL601	QLL0038-001	LAMP		
	PL603	QLL0038-001	LAMP		
	R 600	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 601	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 602	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 603	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 604	NRSA02J-471X	MG RESISTOR	470 5% 1/10W	
	R 605	NRSA02J-561X	RES. C.M	560 5% 1/10W	
	R 606	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 607	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 608	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 609	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 610	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 611	NRSA02J-471X	MG RESISTOR	470 5% 1/10W	
	R 612	NRSA02J-561X	RES. C.M	560 5% 1/10W	
	R 613	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 614	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 615	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 616	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 617	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 618	NRSA02J-471X	MG RESISTOR	470 5% 1/10W	
	R 619	NRSA02J-561X	RES. C.M	560 5% 1/10W	
	R 620	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 625	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 631	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 633	NRSA02J-511X	MG RESISTOR	510 5% 1/10W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 634	NRS181J-821X	MG RESISTOR	820 5% 1/8W	
	R 635	NRS181J-821X	MG RESISTOR	820 5% 1/8W	
	R 636	NRS181J-821X	MG RESISTOR	820 5% 1/8W	
	R 637	NRS181J-821X	MG RESISTOR	820 5% 1/8W	
	R 638	NRSA02J-511X	MG RESISTOR	510 5% 1/10W	
	R 639	NRSA02J-511X	MG RESISTOR	510 5% 1/10W	
	R 640	NRSA02J-511X	MG RESISTOR	510 5% 1/10W	
	R 651	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 652	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 653	NRSA02J-154X	MG RESISTOR	150K 5% 1/10W	
	R 654	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 655	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 656	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	S 601	NSW0066-001X	TACT SW		
	S 602	NSW0066-001X	TACT SW		
	S 603	NSW0066-001X	TACT SW		
	S 604	NSW0066-001X	TACT SW		
	S 605	NSW0066-001X	TACT SW		
	S 606	NSW0066-001X	TACT SW		
	S 608	NSW0066-001X	TACT SW		
	S 609	NSW0066-001X	TACT SW		
	S 610	NSW0066-001X	TACT SW		
	S 611	NSW0066-001X	TACT SW		
	S 612	NSW0066-001X	TACT SW		
	S 613	NSW0066-001X	TACT SW		
	S 614	NSW0066-001X	TACT SW		
	S 615	NSW0066-001X	TACT SW		
	S 616	NSW0066-001X	TACT SW		
	S 617	NSW0066-001X	TACT SW		
	S 618	NSW0066-001X	TACT SW		
	S 619	NSW0066-001X	TACT SW		
	S 620	NSW0066-001X	TACT SW		
	S 622	NSW0066-001X	TACT SW		

■LCD Driver & Operation Switch Board (E Version)

BLOCK NO. 04

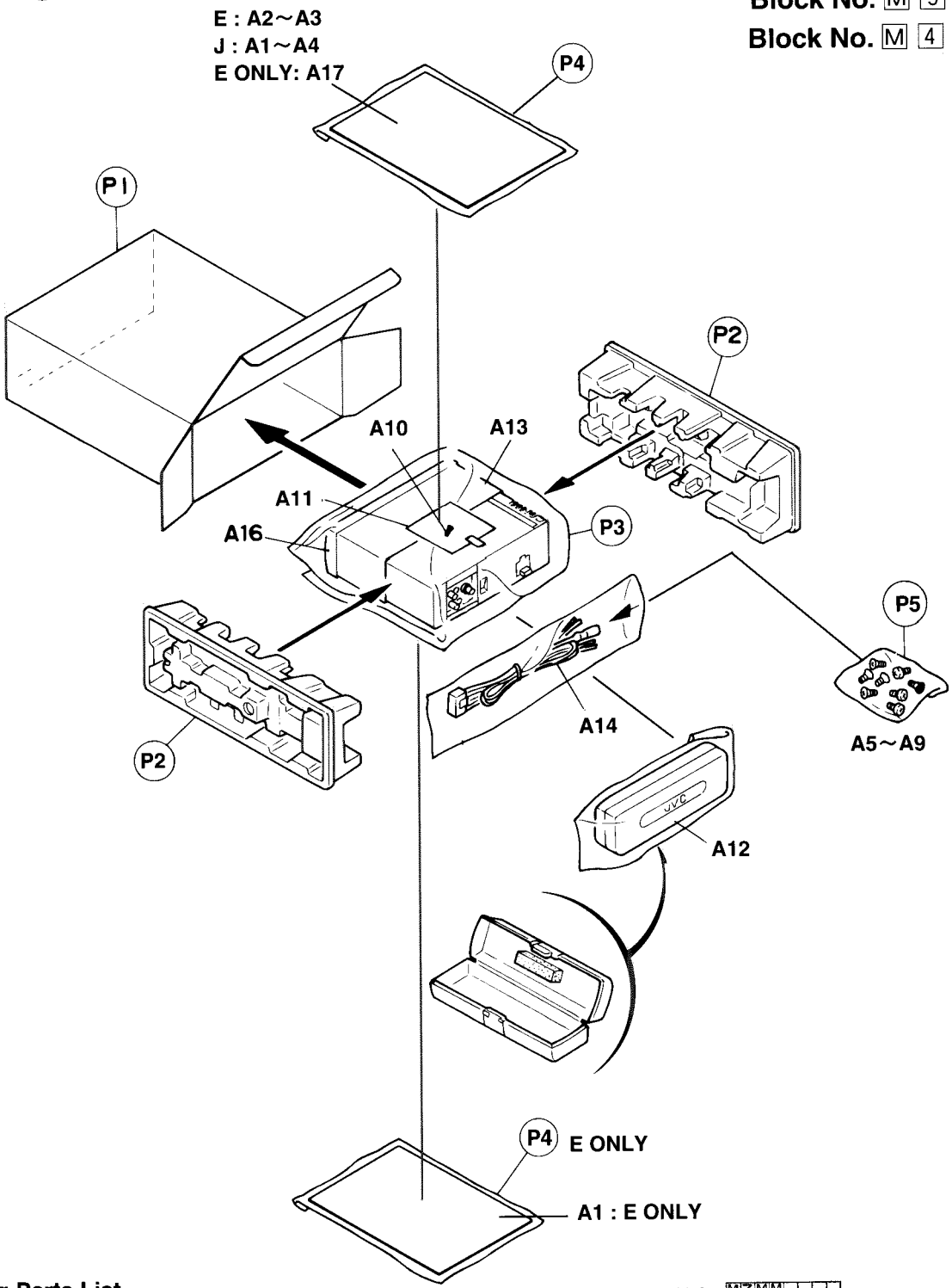
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 651	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 652	NBE20JM-475X	TS E CAPACITOR		
	C 653	NCB21HK-681X	C CAPACITOR	680PF 10% 50V	
	CP701	VMC0335-001	CONNECTOR		
	D 601	SML-210DT/KL/-X	LED		
	D 602	SML-210DT/KL/-X	LED		
	D 603	SML-210DT/KL/-X	LED		
	D 604	SML-210DT/KL/-X	LED		
	D 605	SML-210DT/KL/-X	LED		
	D 609	SML-210DT/KL/-X	LED		
	D 610	SML-210DT/KL/-X	LED		
	D 611	SML-210DT/KL/-X	LED		
	D 612	SML-210DT/KL/-X	LED		
	D 613	SML-210DT/KL/-X	LED		
	D 614	SML-210DT/KL/-X	LED		
	D 615	SML-210DT/KL/-X	LED		
	D 616	SML-210DT/KL/-X	LED		
	D 618	SML-210DT/KL/-X	LED		
	D 619	SML-210DT/KL/-X	LED		
	D 620	SML-210DT/KL/-X	LED		
	D 621	SML-210DT/KL/-X	LED		
	D 622	SML-210DT/KL/-X	LED		
	D 623	SML-210LT/LM/-X	LED		
	D 624	SML-210DT/KL/-X	LED		
	D 652	MA152WA-X	DIODE		
	D 653	MA152WA-X	DIODE		
	D 654	MA152WK-X	SI DIODE		
	D 655	MA152WK-X	SI DIODE		
	IC651	LC75823E	IC		
	PL601	QLL0033-002	LAMP		
	PL603	QLL0033-002	LAMP		
	Q 1	2SA1706/ST/-T	TRANSISTOR		
	R 600	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 601	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 602	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 603	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 604	NRSA02J-471X	MG RESISTOR	470 5% 1/10W	
	R 605	NRSA02J-561X	RES. C.M	560 5% 1/10W	
	R 606	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 607	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 608	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 609	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 610	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 611	NRSA02J-471X	MG RESISTOR	470 5% 1/10W	
	R 612	NRSA02J-561X	RES. C.M	560 5% 1/10W	
	R 613	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 614	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 615	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 616	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 617	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 618	NRSA02J-471X	MG RESISTOR	470 5% 1/10W	
	R 619	NRSA02J-561X	RES. C.M	560 5% 1/10W	
	R 620	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 625	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 631	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 633	NRSA02J-511X	MG RESISTOR	510 5% 1/10W	
	R 634	NRS181J-821X	MG RESISTOR	820 5% 1/8W	
	R 635	NRS181J-821X	MG RESISTOR	820 5% 1/8W	
	R 636	NRS181J-821X	MG RESISTOR	820 5% 1/8W	
	R 637	NRS181J-821X	MG RESISTOR	820 5% 1/8W	
	R 638	NRSA02J-511X	MG RESISTOR	510 5% 1/10W	
	R 639	NRSA02J-511X	MG RESISTOR	510 5% 1/10W	
	R 640	NRSA02J-511X	MG RESISTOR	510 5% 1/10W	
	R 651	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 652	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 653	NRSA02J-154X	MG RESISTOR	150K 5% 1/10W	
	R 654	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 655	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 656	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	S 601	NSW0066-001X	TACT SW		
	S 602	NSW0066-001X	TACT SW		
	S 603	NSW0066-001X	TACT SW		
	S 604	NSW0066-001X	TACT SW		
	S 605	NSW0066-001X	TACT SW		
	S 606	NSW0066-001X	TACT SW		
	S 608	NSW0066-001X	TACT SW		
	S 609	NSW0066-001X	TACT SW		
	S 610	NSW0066-001X	TACT SW		
	S 611	NSW0066-001X	TACT SW		
	S 612	NSW0066-001X	TACT SW		
	S 613	NSW0066-001X	TACT SW		
	S 614	NSW0066-001X	TACT SW		
	S 615	NSW0066-001X	TACT SW		
	S 616	NSW0066-001X	TACT SW		
	S 617	NSW0066-001X	TACT SW		
	S 618	NSW0066-001X	TACT SW		
	S 619	NSW0066-001X	TACT SW		
	S 620	NSW0066-001X	TACT SW		
	S 622	NSW0066-001X	TACT SW		

Packing Materials and Accessories List

Block No. M 3 M M
Block No. M 4 M M



■ Packing Parts List

BLOCK NO. M3MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	FSPE3001-122	CARTON	KS-F110 ONLY	1	U	
		FSPE3001-123	CARTON	KS-FX11 ONLY	1	U	
		FSPE3004-003	CARTON	KS-F110 ONLY	1	E	
		FSPE3001-100	CARTON	KS-F110 ONLY	1	J	
		FSPE3001-102	CARTON	KS-FX11 ONLY	1	J	
	P 2	FSPH1014-002	PAPER CUSHION	LEFT/RIGHT SIDE	2		
	P 3	QPA02504505P	POLY BAG	KS-F110 ONLY	1	E	
		VPE3005-064	POLY BAG		1	J,U	
	P 4	QPA01703505P	POLY BAG	INST.BOOK	1	J,U	
		QPA01703505P	POLY BAG	INST.BOOK	2	E	
	P 5	QPA00801205	POLY BAG		1		

■Accessories List

BLOCK NO. M4MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	FSUN3068-181	INSTRUCTIONS	FX11 CHI,ARA,	1	U	
		FSUN3068-181	INSTRUCTIONS	FX11 ENG,SPA,	1	U	
		FSUN3068-181	INSTRUCTIONS	FX11 POR	1	U	
		FSUN3068-631	INSTRUCTIONS	FX11 FRE	1	J	
		FSUN3067-181	INSTRUCTIONS	F110 CHI,ARA,	1	U	
		FSUN3067-181	INSTRUCTIONS	F110 ENG,SPA,	1	U	
		FSUN3067-181	INSTRUCTIONS	F110 POR	1	U	
		FSUN3067-311	INSTRUCTIONS	F110 ENG,GER,	1	E	
		FSUN3067-311	INSTRUCTIONS	F110 FRE,DUT	1	E	
		FSUN3067-321	INSTRUCTIONS	F110 SPA,ITA,	1	E	
		FSUN3067-321	INSTRUCTIONS	F110 SWE,FIN	1	E	
		FSUN3067-631	INSTRUCTIONS	F110 FRE	1	J	
		FSUN3068-631	INSTRUCTIONS	FX11 ENG,SPA,	1	J	
		FSUN3067-631	INSTRUCTIONS	F110 ENG,SPA,	1	J	
	A 2	FSUN3068-T631	INSTALL MANUAL	FX11 ENG,SPA,	1	J	
		FSUN3067-T631	INSTALL MANUAL	F110 ENG,SPA,	1	J	
		FSUN3068-T181	INSTALL MANUAL	FX11 CHI,ARA,	1	U	
		FSUN3068-T181	INSTALL MANUAL	FX11 ENG,SPA,	1	U	
		FSUN3068-T181	INSTALL MANUAL	FX11 POR	1	U	
		FSUN3068-T631	INSTALL MANUAL	FX11 FRE	1	J	
		FSUN3067-T181	INSTALL MANUAL	F110 CHI,ARA,	1	U	
		FSUN3067-T181	INSTALL MANUAL	F110 ENG,SPA,	1	U	
		FSUN3067-T181	INSTALL MANUAL	F110 POR	1	U	
		FSUN3067-T211	INSTALL MANUAL	F110 ENG,GER,	1	E	
		FSUN3067-T211	INSTALL MANUAL	F110 FRE	1	E	
		FSUN3067-T451	INSTALL MANUAL	F110 DUT,SPA,	1	E	
		FSUN3067-T451	INSTALL MANUAL	F110 ITA	1	E	
		FSUN3067-T481	INSTALL MANUAL	F110 SWE,FIN	1	E	
		FSUN3067-T631	INSTALL MANUAL	F110 FRE	1	J	
	A 3	BT-54008-1	WARRANTY CARD		1	E	
		BT-52001-4	WARRANTY CARD	FOR C	1	J	
		BT-51009-3	WARRANTY CARD	FOR J	1	J	
	A 4	BT-51015-1	SVC CENTER LIST	FX11 ONLY	1	J	
		BT-20071B	SVC CENTER LIST		1	J	
		BT-20137	SVC CENTER LIST	KS-F110 ONLY	1	J	
	A 5	VKZ4027-202	PLUG NUT		1		
	A 6	VKH4871-001SS	MOUNT BOLT		1		
	A 7	VKZ4328-001	LOCK NUT	FOR M5	1		
	A 8	WNS5000Z	WASHER		1		
	A 9	FSKL4010-002	HOOK		2		
	A 10	VKZ4777-001	MINI SCREW	THEFT PREVENTIO	1		
	A 11	FSYA4001-001	SHEET		1		
	A 12	FSJB3002-00A	HARD CASE		1		
	A 13	FSKM2004-001	MOUNTING SLEEVE		1		
	A 14	QAM0013-006	16P CORD ASS'Y		1	J,U	
		QAM0089-001	16P CORD ASS'Y		1	E	
	A 16	FSJD2019-002	TRIM PLATE		1		
	A 17	VND3050-002	IDENTITY CARD	KS-F110 ONLY	1	E	
	KIT 1	KDGS717K-SCREW1	SCREW PARTS KIT	A5-A9	1		
	KIT 2	KDGS727J-SCREW2	SCREW PARTS KIT	A10,A11	1		

SCREW KIT 1

A9 Hook

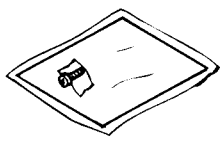
A6 Mount Bolt

A7 Lock Nut

A5 Plug Nut

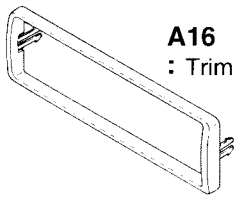
A8 Washer

SCREW KIT 2



A10 Screw

A11 Sheet



A16 : Trim Plate

JVC

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