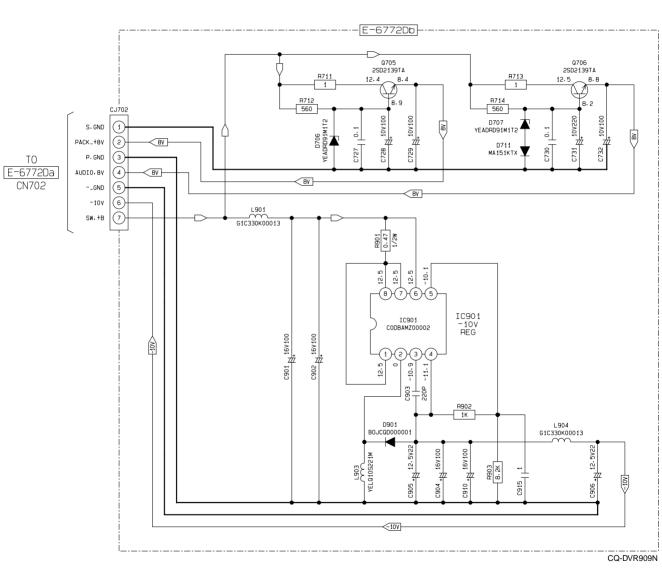
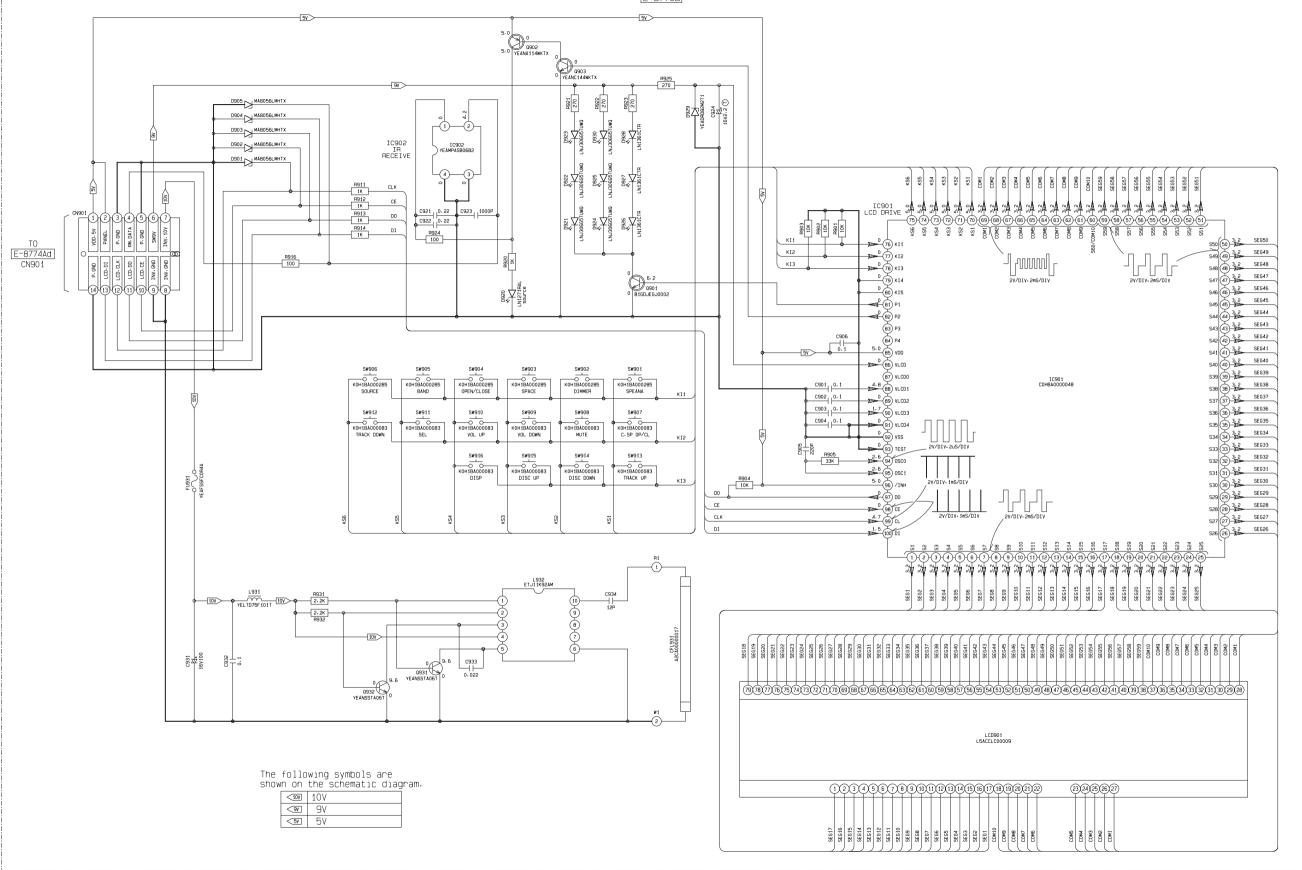
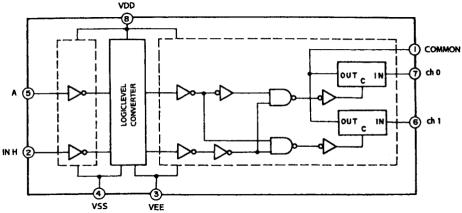


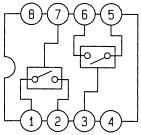
The following symbols are shown on the schematic diagram.

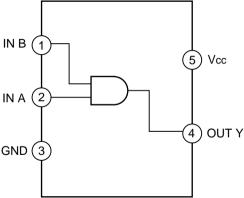
•	0	CIIC	Scriemacic	u i u g
		+B		
	<8V	87		
	< <u>10V</u>	-10	) V	

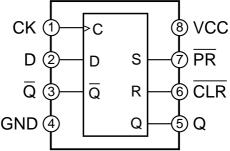












# Safety Information

#### **CAUTION:**

THIS PRODUCT IS A CLASS I LASER PRODUCT. HOWEVER THIS PRODUCT USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THIS PRODUCT CORRECTLY AS INSTRUCTED.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

#### WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION!

#### **WARNING:**

NOT FOR USE WHERE VIDEO MONITOR IS VISIBLE TO DRIVER TO AVOID RISK OF SERIOUS INJURY OR POSSIBLE VIOLATION OF STATE LAWS.

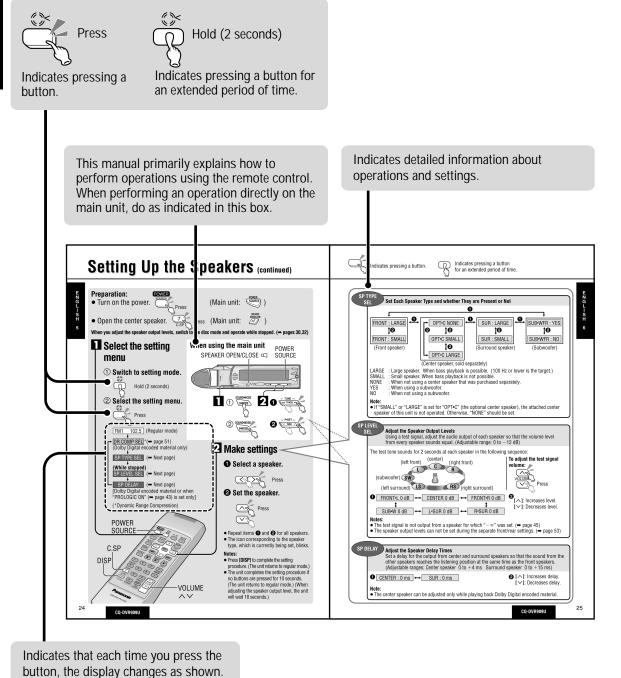
Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

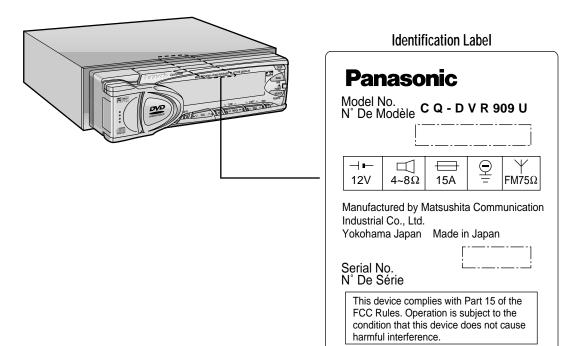
#### Part 15 of the FCC Rules

This unit has been manufactured under the part 15 of the FCC Rules. Do not attempt to make any changes or modifications to this unit.

# Meaning of Symbols



#### Label indication and location



## Use This Product Safely

## When Driving

Keep the volume level low enough to be aware of road and traffic conditions.

## When Car Washing

Do not expose the product, including its speakers and CDs, to water or excessive moisture. This could cause electrical shorts, fire or other damage.

#### When Parked

Parking in direct sunlight can produce very high temperatures inside your car. Give the interior a chance to cool down before switching the unit on.

## **Use the Proper Power Supply**

This product is designed to operate with a 12 volt, negative ground battery system (the regular system in a North American car).

#### **Protect the Disc Mechanism**

Avoid inserting any foreign objects into the slot of the disc player.

Failure to observe this may cause malfunction due to the precise mechanism of this unit.

#### Protect the DVD Software

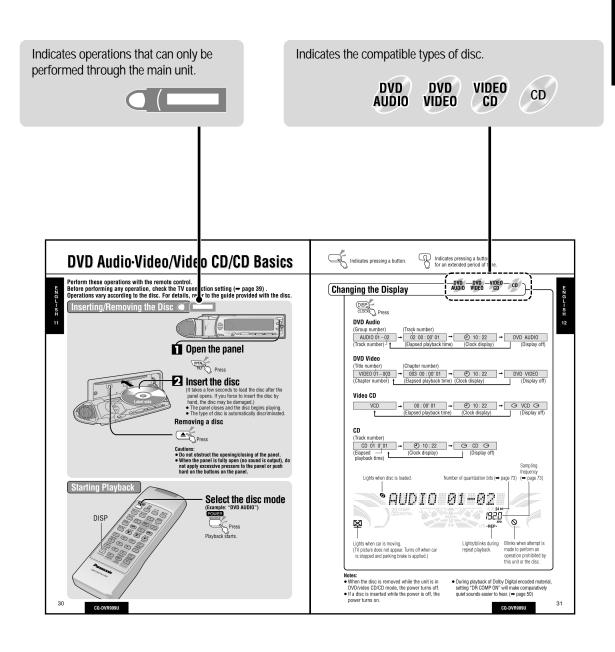
When you leave the car, be sure to eject the disc from this unit and bring it out.

#### Use Authorized Servicenters

Do not attempt to disassemble or adjust this precision product. Please refer to the Servicenter list included with this product for service assistance.

#### For Installation

The unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.



# Discs that can be Played Back

Disc	Mark (logo)	Disc size	Video format	Region number
DVD audio	AUDIO		NTSC	
DVD video	VIDEO	5"(12 cm)	NTSC	1 All
Video CD	DIGITAL VIDEO	3"(8 cm)	NTSC	
CD	COMPACT DIGITAL AUDIO			



#### **Region Management Information**



Region Management Information: This product is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this product, this product cannot play this disc.



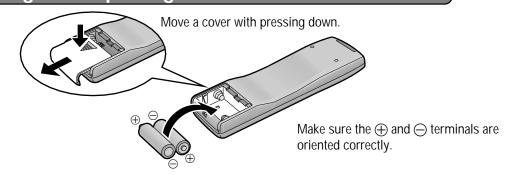
The Region number for this product is "1" and "ALL".

- ☐ The following discs cannot be played back on this product.
- DVD-ROM DVD-R/DVD-RAM CD-ROM VSD CDV CD-G SACD photo CD CD-R\*
- some DTS CD discs CD-EXTRA (audio-only playback possible) DVDs with a region number other than "1" or "ALL" discs recorded in PAL format, others.

(\*Because this product has its own reading device, CD-R discs can not be played back.)

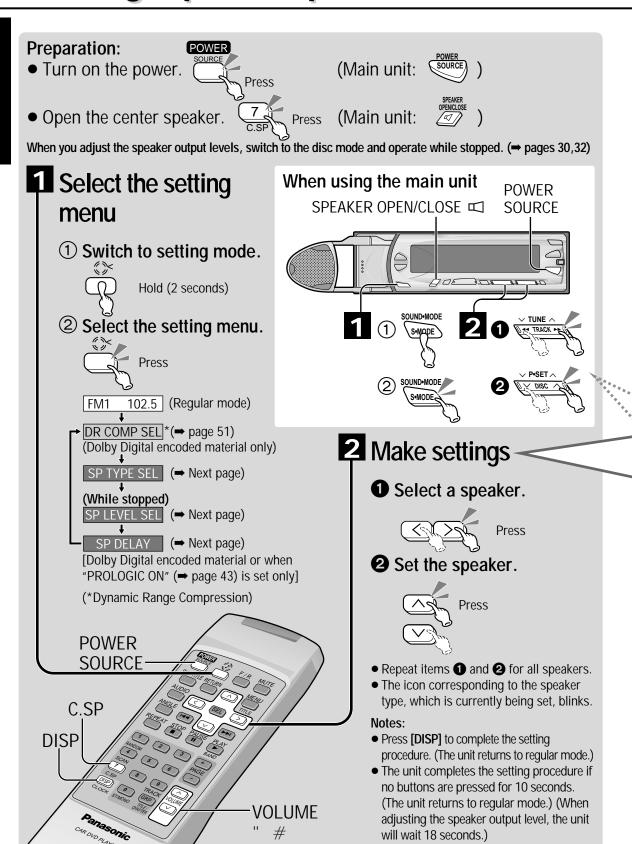
# Preparing the Remote Control

# Inserting and Replacing the Batteries



- Type used: 2 AA dry cells (R6PU)
- Battery life: Approximately 5 months under normal use (when using manganese batteries at room temperature)

# Setting Up the Speakers (continued)



# Setting Up the Speakers

## Speakers that are Used

#### Front speakers

Use the type of speakers that are built into the driver's door and the passenger's door.

#### Center speaker

We recommend you to use the speaker that is built into this unit. When using a separate speaker, install the speaker near the center console of the car, or near the dashboard.

#### Surround speakers

Use the type of speaker that is used on the left and right side of the rear of the passenger cabin, or that is built into the rear deck.

#### Subwoofer

Because the positioning of the sound from the subwoofer is not as dependent on the installation location as it is with other speakers, the subwoofer can be placed anywhere desired. (A separate subwoofer amplifier is required.)

#### Note:

 If this unit is going to be used without the installation of the surround speakers or subwoofer, set the speaker setting to suit the speaker system to be used. (→ page 24)

# Left front speaker (FRONT-L) Left surround speaker (L-SURROUND) Right front speaker (FRONT-R) Right surround speaker (R-SURROUND)

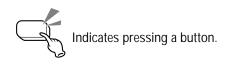
## **Speaker Setup Procedure**

To reproduce the surround sound correctly, first set and adjust the speakers in the sequence shown below.

Subwoofer (SUB-WOOFER)

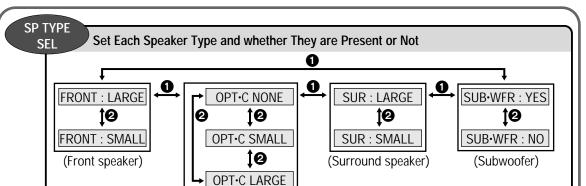
- Set each speaker type and whether they are present or not.(⇒ page 24)
- 2 Adjust the speaker output levels. (→ page 24)
- 3 Adjust the speaker delay times. (→ page 24)

After setting 1 through 3, set the sound. (→ page 42)





Indicates pressing a button for an extended period of time.



(Center speaker, sold separately)

LARGE: Large speaker. When bass playback is possible. (100 Hz or lower is the target.)

SMALL: Small speaker. When bass playback is not possible.

NONE : When not using a center speaker that was purchased separately.

YES : When using a subwoofer. NO : When not using a subwoofer.

#### Note:

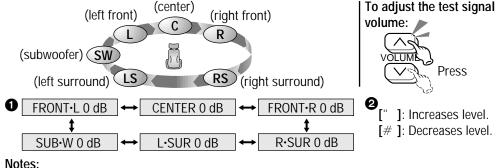
If "SMALL" or "LARGE" is set for "OPT•C" (the optional center speaker), the attached center speaker of this unit is not operated. Otherwise, "NONE" should be set.

#### **SP LEVEL** SFL

#### Adjust the Speaker Output Levels

Using a test signal, adjust the audio output of each speaker so that the volume level from every speaker sounds equal. (Adjustable range: 0 to -12 dB)

The test tone sounds for 2 seconds at each speaker in the following sequence:



- The test signal is not output from a speaker for which " $-\infty$ " was set. ( $\Rightarrow$  page 45)
- The speaker output levels can not be set during the separate front/rear settings. (→ page 53)

#### **SP DELAY**

#### Adjust the Speaker Delay Times

Set a delay for the output from center and surround speakers so that the sound from the other speakers reaches the listening position at the same time as the front speakers. (Adjustable ranges: Center speaker 0 to +4 ms Surround speaker 0 to +15 ms)

 CENTER : 0 ms ← → SUR: 0 ms 2 [" ]: Increases delay.

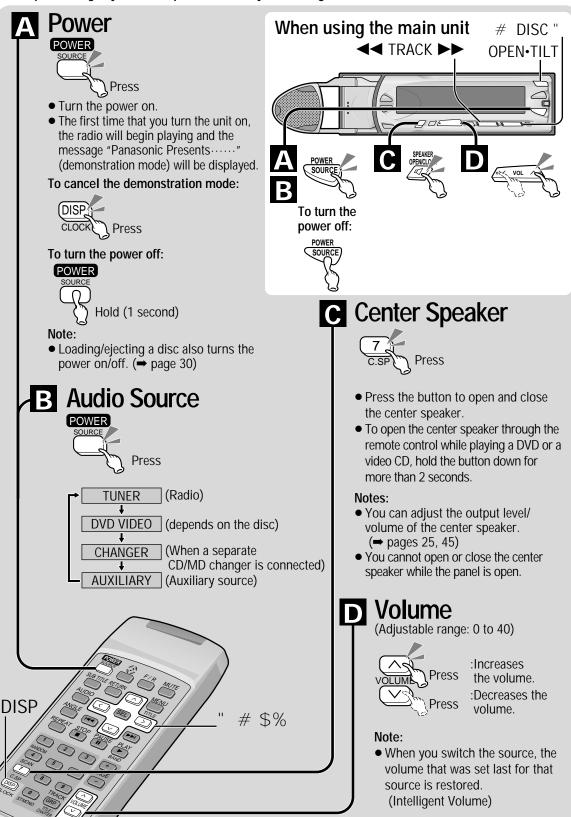
[#]: Decreases delay.

#### Note:

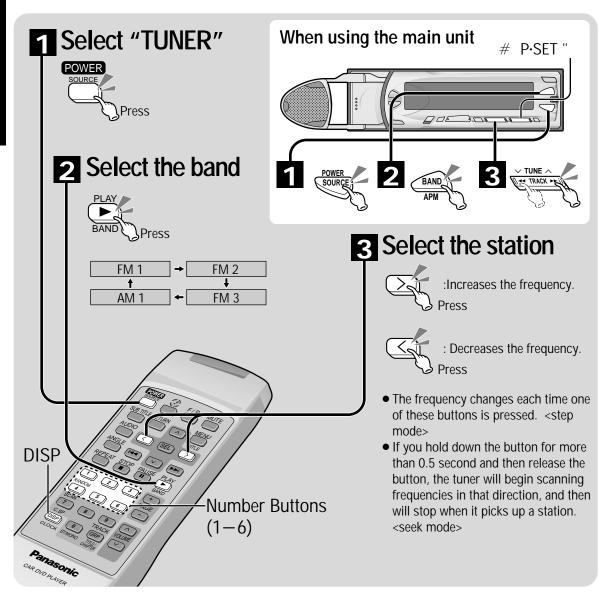
The center speaker can be adjusted only while playing back Dolby Digital encoded material.

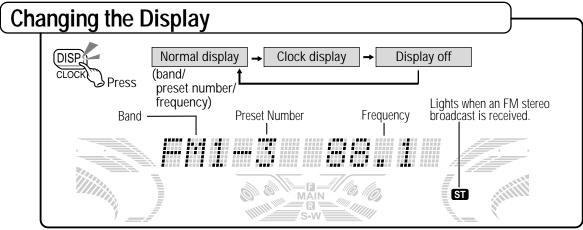
# **Common Operations**

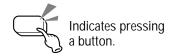
Before performing any of these operations, turn your car's ignition switch to "ACC" or "ON".



# **Radio Basics**









Indicates pressing a button for an extended period of time.





The clock uses a 12-hour display.



Hold (2 seconds)



2 Switch between the hours and minutes displays, and set both.



Selects the hours display, which begins to blink.

(Main unit: VITRACI)



Selects the minutes display, which begins to blink.

(Main unit: RACK → ?



Increases the number in the selected display.

(Main unit:





Decreases the number in the

selected display.

∨ P•SET  $\sqrt{\rho} \sim DISC$ (Main unit:

3 Finalize the time setting.



• 10 : 35

The clock begins to run.

#### To display the time:



Press the button repeatedly until the time is displayed.

 "ADJUST" will be displayed when the clock is not adjusted.

## Opening/Closing the Panel



 The panel opens. (When the panel is open, this unit is muted and you can not operate except for some buttons.)

#### Caution:

 Do not attempt to manually move or stop or strike the panel or the center speaker.

#### To close the panel:





 The panel closes and returns to the angle of tilt that you have previously set.

 The panel closes completely, and the tilt setting is cancelled.

#### Notes:

- If no button is pressed for about 20 seconds, the panel closes automatically and returns to the angle of tilt that you have previously set.
- The panel closes completely when the ignition switch is turned to "OFF".

# Tilting the Panel

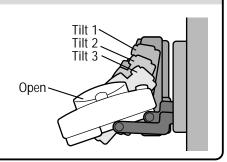
You can adjust the tilt of the panel to make it easier to see.

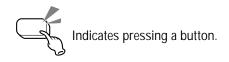


Note:

 To change the tilt of the panel, hold the button down for more than 1 second. <The tilting mechanism has three tilt positions.>

• The panel will open to the angle of tilt that you have previously set whenever you turn the ignition switch to "ACC" or "ON".







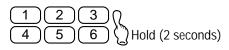
Indicates pressing a button for an extended period of time.

## Setting Up Station Presets

You can store presets for up to 6 stations in each AM and FM band (up to a maximum of 24).

#### **Storing Presets Manually**

After selecting a band and a station...



 When the station is stored in the preset, the frequency will blink once.

#### Using the buttons on the main unit

1 Set preset mode.



- The preset number blinks.
- 2 Select a preset number.



3 Select the station.



4 Store the station in the preset.



• The preset number stops blinking, and the frequency blinks once.

#### To cancel during setting procedure:



## **Storing Presets Automatically**

After selecting a band...

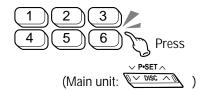


Hold (2 seconds)

- Starting from the low end of the frequency spectrum, the unit will begin storing each station that it picks up with clear reception in preset numbers 1 through 6.
- When a station is stored in a preset, the preset number blinks for about
   5 seconds, and then the next preset number is called up. preset scan mode>

## To stop preset scanning:

Select a preset number.



## Listening to a Preset Station

After selecting a band...



• The stored station is received.

Using the buttons on the main unit

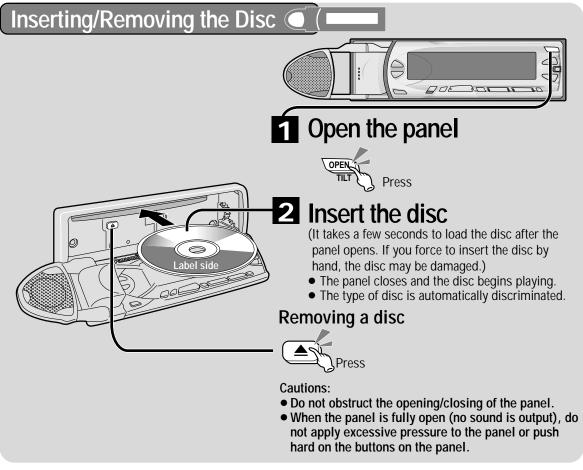


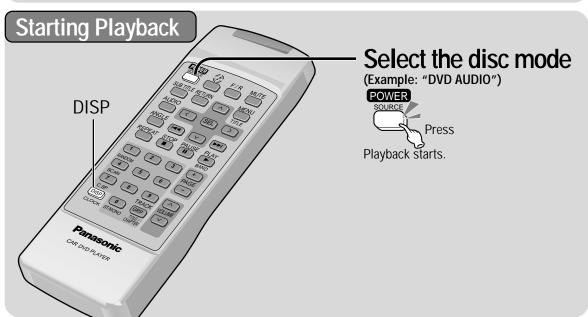
Select a preset number.

# DVD Audio-Video/Video CD/CD Basics

Perform these operations with the remote control.

Before performing any operation, check the TV connection setting (→ page 39). Operations vary according to the disc. For details, refer to the guide provided with the disc.





# DVD Audio·Video/Video CD/CD Basics

(continued)

## Selecting a Menu Item

DVD DVD VIDEO CD

Some DVD discs have unique menu structures called DVD menu. DVD discs programmed with complex contents provide guide menus, and those recorded with various languages provide menus, audio and subtitle languages. Although the DVD menu's contents and operation differ from disc to disc, the following explains basic operation when this feature is used. Please refer to "DVD Menu" ( $\Rightarrow$  page 35) or "Title Menu" ( $\Rightarrow$  page 37) for further instructions.



#### Example)

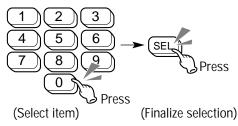
MAIN MENU
Live (Part 1)
Live (Part 2)
Back stage

To return to the previous menu screen or to re-input a number:



#### DVD/Video CD with playback control

(Finalize selection)



#### Example)

Select your favorite music

- 1. Love Supremes
- 2. Impressions
- 3. In a sentimental mood

#### Notes:

- Pressing [►►][[◄◄]
   while a video CD with
   playback control is being
   played may cause you to
   return to the menu screen.
- Operations vary according to the disc. For details, refer to the guide provided with the disc.

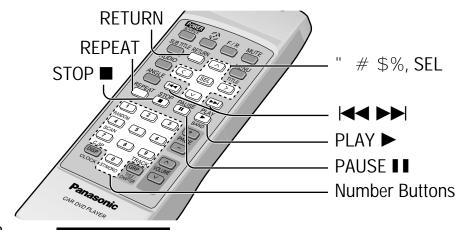
## Stopping

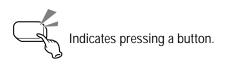


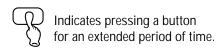


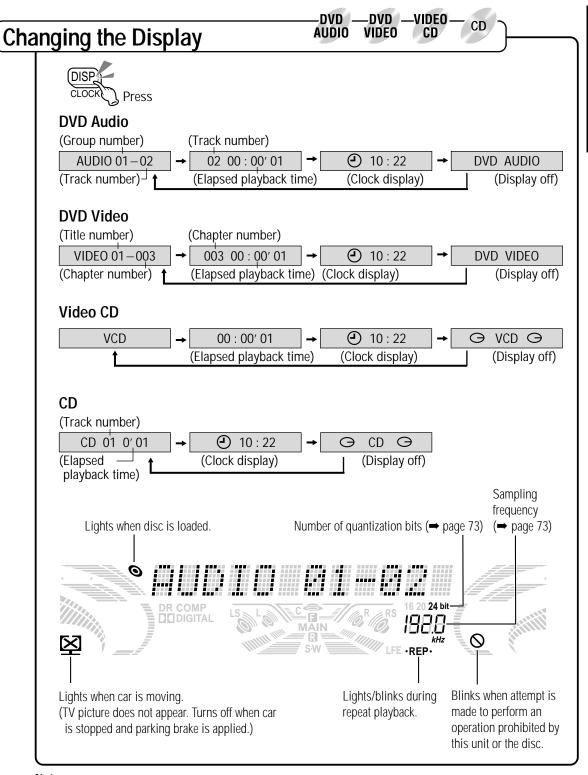
(Select item)

- "STOP" blinks.
- Pressing [PLAY▶] causes playback to resume from the location where it stopped. (Continued playback function)
   (During stop, press [STOP■] again to cancel continued playback and "STOP" turns to light.)







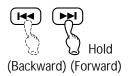


#### Notes:

- When the disc is removed while the unit is in DVD/video CD/CD mode, the power turns off.
- If a disc is inserted while the power is off, the power turns on.
- During playback of Dolby Digital encoded material, setting "DR COMP ON" will make comparatively quiet sounds easier to hear. (\*\* page 50)

# Fast Forward/Fast Backward

#### DVD DVD VIDEO CD AUDIO VIDEO



• The speed changes if the button is held down (maximum 20 times as fast as normal speed). Playback begins at the point where the button is released.

# Go to Beginning

#### DVD DVD VIDEO: CD AUDIO VIDEO CD



- Each time one of these buttons is pressed, the player jumps to the start of the appropriate track (chapter).
- If the backward button is pressed once, the player returns to the start of the track (chapter) that is currently being played.

#### Note:

 When playing a DVD audio (video), there are cases where it is not possible to return to the start of a track (chapter) that spans 2 groups (titles).

### **Pause**

(During playback)



• "PAUSE" is displayed and the playback pauses.

To resume normal playback:

VIDEO

CD

VIDEO

CD



DVD

VIDEO



## Repeat

#### Chapter/Track Repeat

(During playback) ● "REP" lights.



#### DVD audio/video CD/CD

"TRACK REP ON" is displayed and the track that is currently being played repeats.

#### DVD video

"CHAPT REP ON" is displayed and the chapter that is currently being played repeats.

#### To resume normal playback:



#### Group/Title Repeat

DVD

VIDEO

(During playback) ● "REP" blinks.



DVD

AUDIO

DVD

AUDIO

(2 seconds)

#### DVD audio

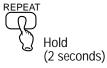
"GROUP REP ON" is displayed and the group that is currently being played repeats.

CD

#### DVD video

"TITLE REP ON" is displayed and the title that is currently being played repeats.

#### To resume normal playback:

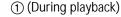


# DVD Audio·Video/Video CD/CD Basics

(continued)



AUDIO VIDEO





Select the input mode.



01 / 003 Regular mode

1 Track (Chapter) input mode [Track (Chapter) number blinks.]

Group (Title) input mode [Group (Title) number blinks.]



Press

RETURN

**AUDIO** 

DISP

Input the desired group/track/title/chapter number.



Playback starts.

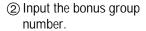
#### Note:

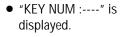
(DVD audio only)

 Press and hold [GRP] for more than 2 seconds, and the player jumps to the start of the next group.

# Playing back a bonus group (\*) (DVD audio only)

- \* This is a group that contains only DVD audio software, and cannot be played without entering a security code. (Some software does not include bonus groups.) For details, refer to the guide provided with your disc.
- Select the group number input mode.







GRP

③ Input the security code.



4 Finalize selection.



To return to normal mode:



To re-input the number:



MENU • TITLE
" # \$%, SEL

PAGE + -

PAGE + –Number Buttons

# DVD Audio·Video/Video CD/CD Basics

(continued)

# Slow Playback



① (During playback)



• "PAUSE" is displayed.



- "SLOW PLAY" is displayed.
- Playback is at approximately 1/3 normal speed.

To pause:



To resume normal playback:



#### Note:

Reverse slow playback is not possible.

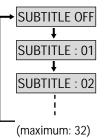
# Switching the Subtitle Language



#### (During playback)

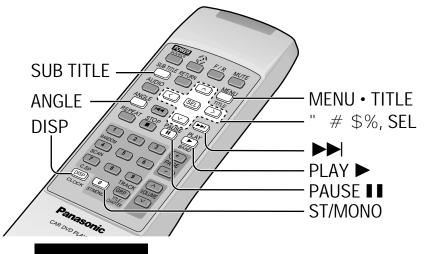


 Initially, the subtitle language is the language that is set in the initial settings. (If this language has not been recorded, the language that is displayed is determined by the disc.)



#### Notes:

- If you press [DISP], or do not perform any operation for 2 seconds, the unit returns to regular mode.
- The number of subtitle languages depends on the disc.
- If no subtitles are recorded on the disc,
  "\( \rightarrow\)" lights.
- It may not be possible to switch the subtitles unless the unit is at the DVD menu (→ page 35) or is at the initial settings (→ page 38).
- There may be a brief delay before the subtitles appear.



## Switching the Audio Language

-DVD -DVD AUDIO VIDEO

(During playback)



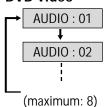
#### **DVD** audio

**AUDIO: 01** AUDIO: 02

(maximum: 2)

 This operation will sometimes cause the player to jump to the beginning of the track that is currently being played.

#### DVD video



#### Notes:

- If you press [DISP], or do not perform any operation for 2 seconds, the unit returns to regular mode.
- The number of audio languages depends on the disc. (Some discs have only one language.)
- It may not be possible to switch languages unless the unit is at the DVD menu or is at the initial settings (→ page 38).

### DVD Menu

DVD DVD AUDIO VIDEO

Use this menu during playback to select content, audio, subtitles, etc., from a menu (the DVD menu) that is unique to each disc.

(1) (During playback)



• "PLAY" is displayed and the DVD menu appears on the screen. (Pressing this button again causes playback to start at the scene from which the DVD menu was called.)

#### Example)

DVD MENU 1 SUBTITLE

2 AUDIO

3 ANGLE

To return to the previous menu screen:



 DVD menu content and operations depend on the disc. For details. refer to the guide provided with your disc.



## Still Forward/Backward

DVD AUDIO

It is possible to move only the still image forward or backward while music continues to play.

: forward ress : backward

 The images change each time the button is pressed.

#### To skip to a specific image:

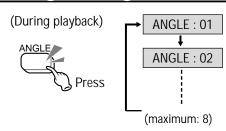


Note:

• Some discs restrict scanning forward or backward through still images.

## Switching the Angle





#### Notes:

- If you press [DISP], or do not perform any operation for 2 seconds, the unit returns to regular mode.
- If multiple angles are not recorded on the disc, "\( \rightarrow\)" lights.

## Title Menu



(1) (During playback)



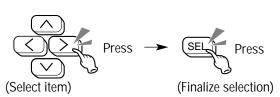
• "PLAY" is displayed and the title menu appears on the screen.

(Pressing this button again causes playback to start at the scene from which the title menu was called.)



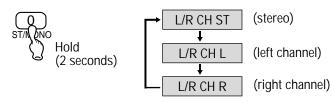


2



## Switching between Stereo and Monaural

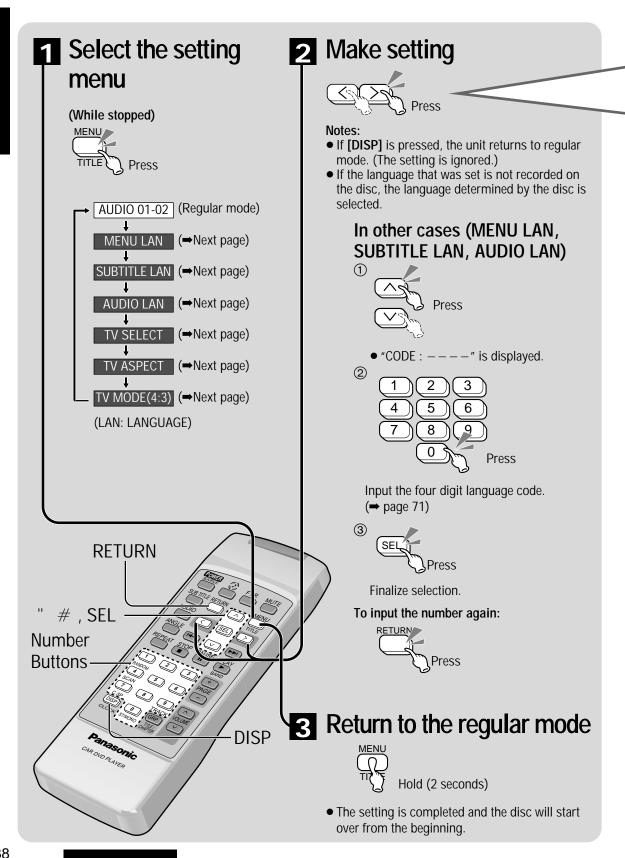




 When either "L/R CH L" or "L/R CH R" is selected, the left or right channel audio is output on both the left and right speakers.

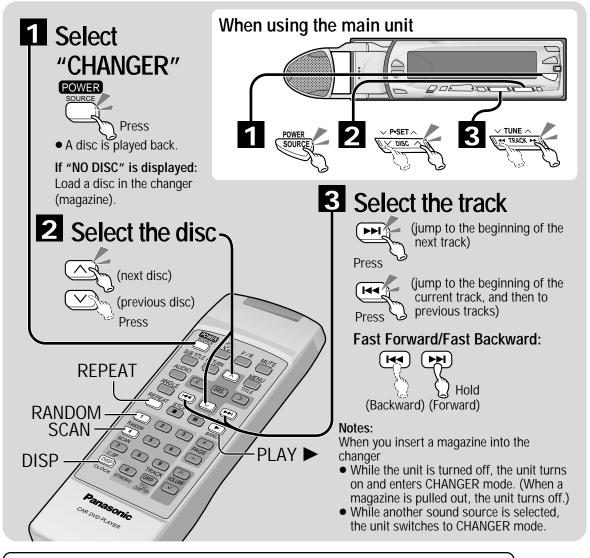
## DVD Audio·Video/Video CD/CD Basics

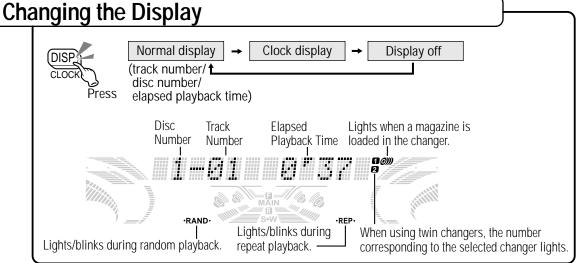
(continued)



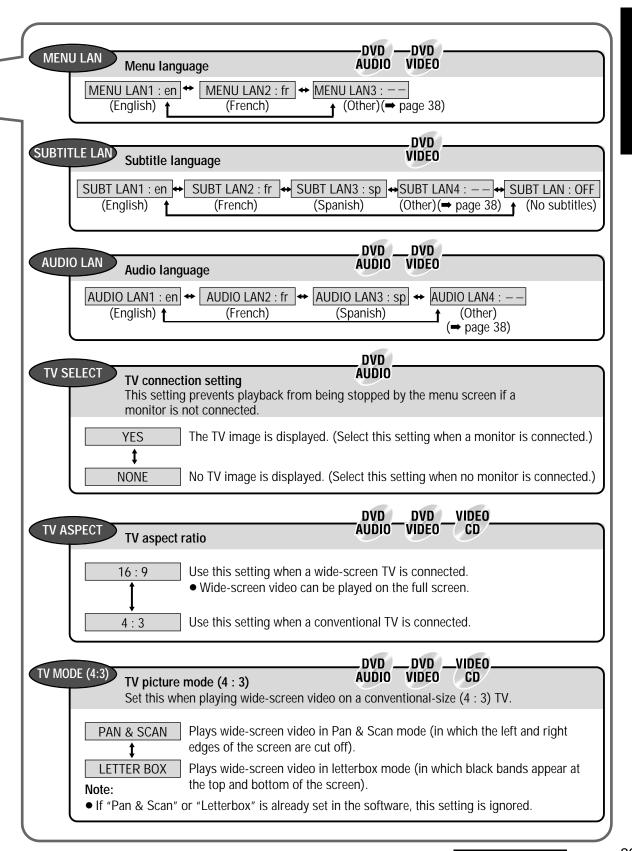
## **CD Changer Basics**

Connect a CD changer (CX-DP88, etc.; sold separately).





## (Changing the Initial Settings)



Indicates pressing a button for an extended period of time.

## Scan Play

#### Track Scan

Plays approximately 10 seconds of each of the tracks on the discs in the changer in sequence.



- The elapsed playback time display begins to blink.
- Once a complete cycle through all the tracks on the discs in the changer has been completed, the unit begins playing from the start of the first track.

#### Disc Scan

Plays approximately 10 seconds of the first track on each of the discs in the changer in sequence.



(2 seconds)

- The disc number display begins to blink.
- Once a complete cycle through all the discs in the changer has been completed, the unit begins playing from the start of the first disc.

#### To cancel:



Hold (2 seconds)

#### To cancel:



## Repeat Playback

#### Repeating a track

The track currently being played is repeated.

#### To cancel:



"REP" lights.



#### Repeating a disc

Hold

"REP" blinks.

(2 seconds)

The disc currently being played is repeated.

#### To cancel:



Hold (2 seconds)

## Random Plav

#### Selecting tracks from all discs

A track selected at random from among all of the discs in the changer is played back.

#### To cancel:



"RAND" lights.

#### Selecting tracks from one disc

A track selected at random from the current disc being played is played back.

#### To cancel:



Hold (2 seconds)

"RAND" blinks.



## **Using Two Changers (Dual changers)**

Use the dual changer control unit (CA-CD55; sold separately) to connect the 2 CD changers to this unit. (⇒ page 64)

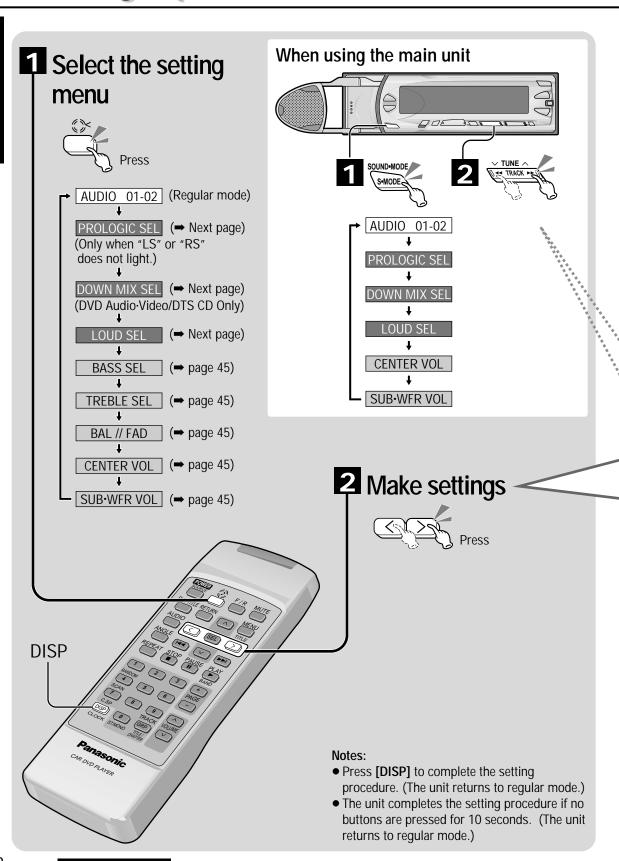


**CHANGER 1 CHANGER 2**   The selected changer number (either 1 or 2) lights.

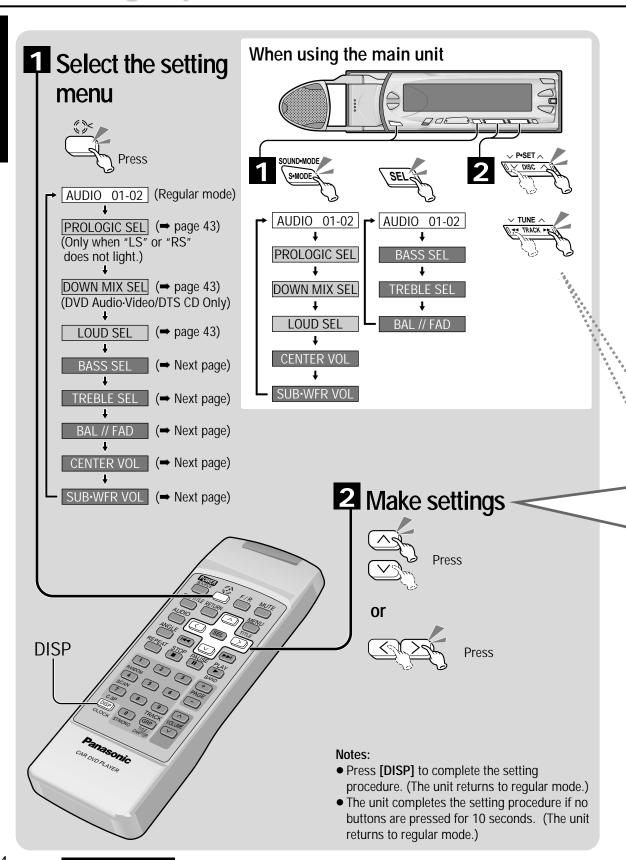
#### Caution:

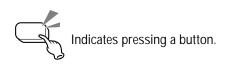
• If only one changer will be connected to the dual changer control unit, connect that changer to the CHANGER 1 jacks.

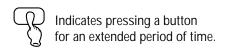
# Setting Up the Sound



## Setting Up the Sound (continued)

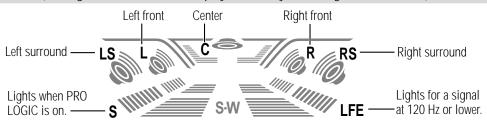


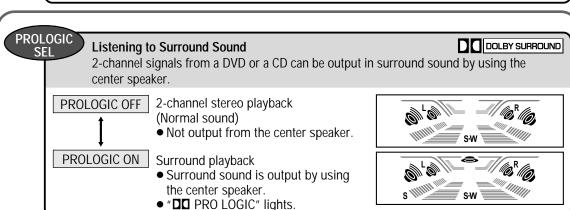






This display lights in accordance with the digital signals that are input for each speaker channel. (The signal formats that are displayed will vary according to the software.)







#### Combining the Speaker Output

When listening to Dolby Digital or dts encoded material

DIGITAL (the "DID DIGITAL" or "dts" indicator will light), the signals for each speaker channel can be combined and output as stereo. (Down mix)

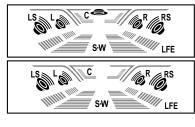


Recorded signal format (Example: 5.1channel surround playback)

DOWN MIX ON

Down mix (2-channel stereo playback) Use this setting when front speakers only are connected.

 The C, LS, and RS signals are combined with and output through L and R.



DOLBY

#### Note:

If this setting is changed while playing a disc, the disc will start over from the beginning.

#### LOUD Loudness **SEL** This function boosts the bass and treble. LOUD OFF Normal sound

Î LOUD ON

Boosts the bass and treble when playing.

"LOUD" lights.

#### BASS SEL

#### **Adjusting the Bass**

(Adjustable range: -12 to +12 dB)

- [" ]: Increases the bass.
- [#]: Decreases the bass.

BASS +6 dB

#### TREBLE SEL

#### Adjusting the Treble

(Adjustable range: -12 to +12 dB)

- [" ]: Increases the treble.
- [# ]: Decreases the treble.

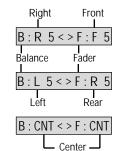
TREBLE +6 dB

#### BAL // FAD

#### Adjusting the Front/Rear/Left/Right Balance

(Adjustable range: 15 for each)

- [\$]: Increases the right side.
- [%]: Increases the left side.
- [" ]: Increases the front.
- [#]: Increases the rear.



#### CENTER VOL

#### **Adjusting the Center Speaker Volume**

(Adjustable range:  $-\infty$ , -10 to +10 dB)

- [" ]: Increases the level.
- [#]: Decreases the level.

CENTER +6 dB

#### Note:

• Setting " $-\infty$ " makes no sounds to output.

#### SUB·WFR VOL

#### Adjusting the Subwoofer Volume (When Subwoofer is set.)

(Adjustable range:  $-\infty$ , -10 to +10 dB)

#### Connect a subwoofer (sold separately).

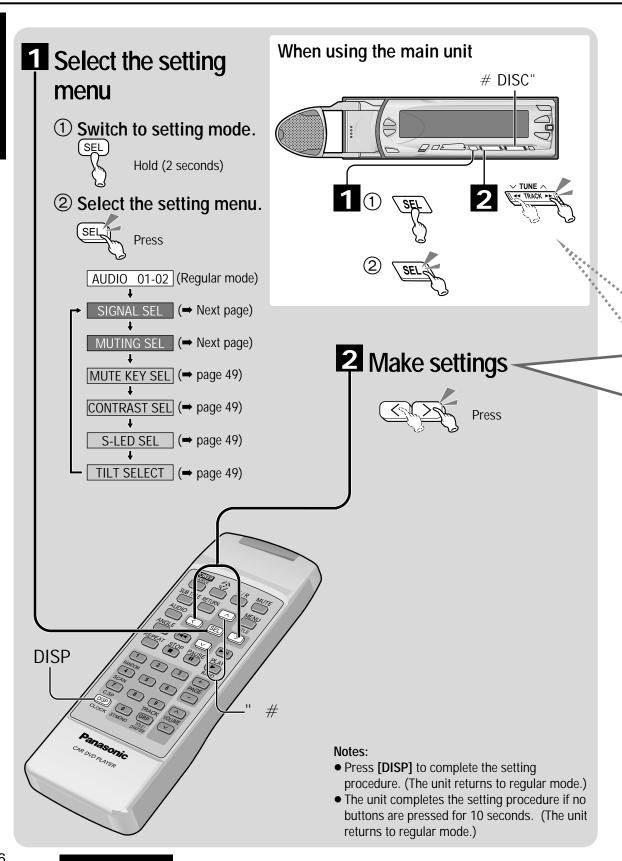
- [" ]: Increases the level.
- [#]: Decreases the level.

SUB·WFR +6 dB

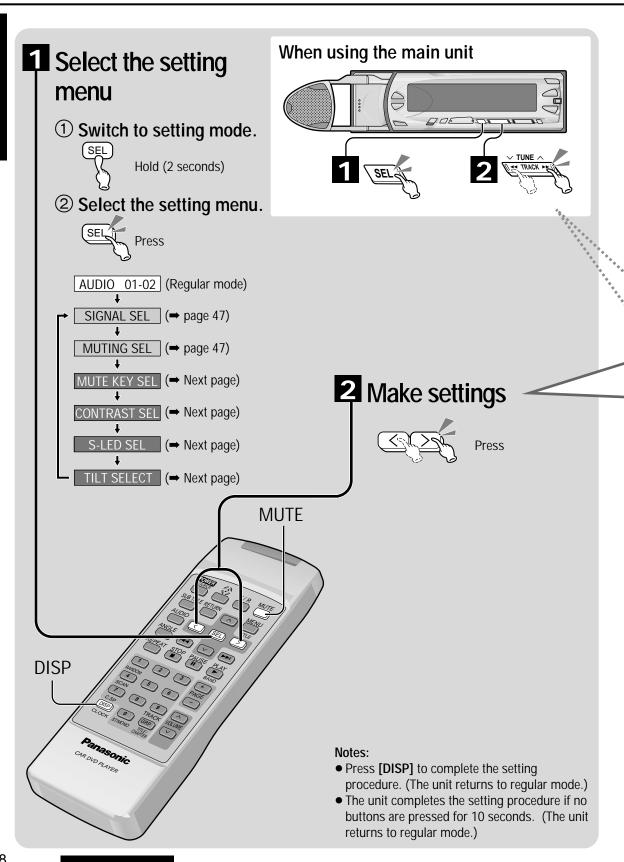
#### Note:

• Setting " $-\infty$ " makes no sounds to output.

# **Setting Other Functions**



## Setting Other Functions (continued)

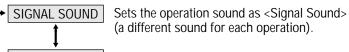


Indicates pressing a button for an extended period of time.

### SIGNAL

#### Signal Sound/Signal Beep (The sound of button operation)

You can select to have different signal sounds output from the center speaker whenever you press a button. You can also set the volume of the signal sound.



SIGNAL BEEP 1 Sets the operation sound as <Signal Beep 1>.

Signal Beep 2 Sets the operation sound as <Signal Beep 2>.

SIGNAL BEEP OFF Turns off the operation sound.

#### Adjusting the volume:

SIGNAL BEEP 3

#### Note:

: Increases the volume

 A sound is output when the power is turned on or off only if "SIGNAL SOUND" is set.

: Decreases the volume

(Main unit:

(Adjustable range: LEV 1 to LEV 3)

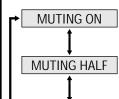
#### MUTING SEL

## Making It Easier to Hear Voice Directions from the Car Navigation System (In future use)

Sets the operation sound as <Signal Beep 3>.

You can select to have this unit reduce its volume when the car navigation system is giving voice directions.

#### Connect a car navigation system (sold separately).



**MUTING OFF** 

Decreases the volume of this unit to "0" (silence) when the car navigation system gives voice directions.

Decreases the volume of this unit by approximately 1/10 when the car navigation system gives voice directions.

Does not change the volume of this unit when the car navigation system gives voice directions.

• When the car navigation system gives voice directions, the message "MUTING \* \* \* ", indicating the navimute setting, is displayed.

## MUTE KEY

#### **MUTE Button Setting**

You can select how much to lower the volume when [MUTE](ATT) is pressed.

**MUTE KEY** 

When [MUTE](ATT) is pressed, the volume goes to "0" (silence). <MUTE>

ATT KEY

When [MUTE](ATT) is pressed, the volume is reduced to approximately 1/10 of its original volume. <ATT>

### CONTRAST

#### Making the Display Easier to See

The display of this unit can be made easier to see by adjusting the display contrast (the difference between the bright and dark portions). (Adjustable range: Lv1 to 5)

[\$]: Increases the contrast level.

CONTRAST Lv 3

[%]: Decreases the contrast level.

• The higher the level, the greater the contrast.

#### S-LED SEL

#### **Security Indicator**

The security indicator blinks while the removable face plate is removed from this unit.

S-LED ON

The indicator blinks when the panel is removed.

The panel removal alarm will be active.

S-LED OFF

The indicator does not blink when the panel is removed.

The panel removal alarm will be non-active.

## SELECT

#### Using the Panel without Changing the Tilt

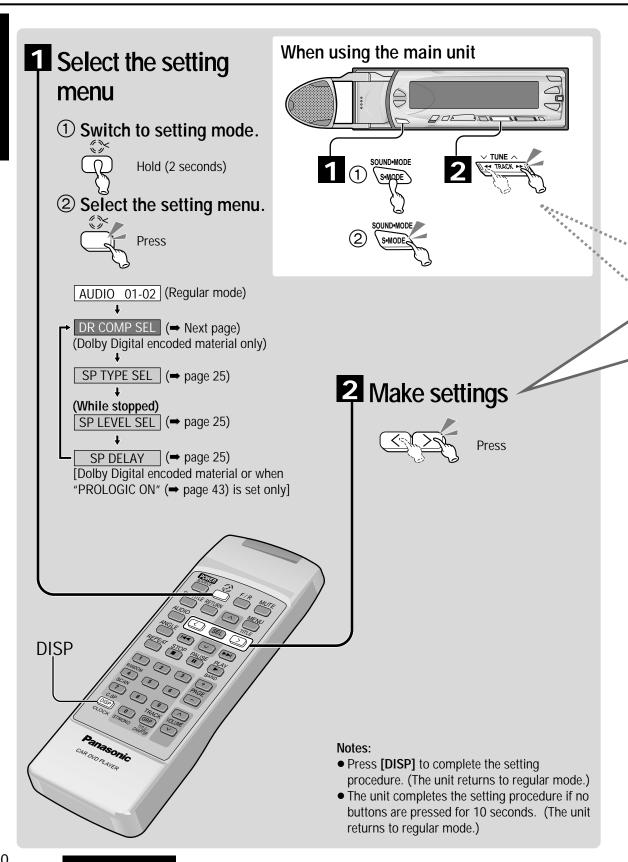
**TILT ON** 

Permits adjustment of the panel tilt.

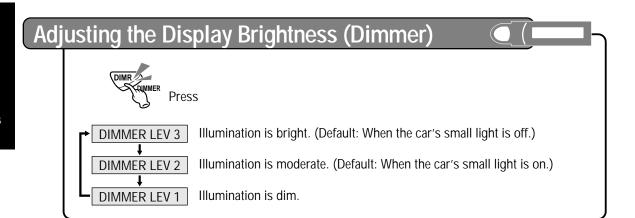
TILT OFF

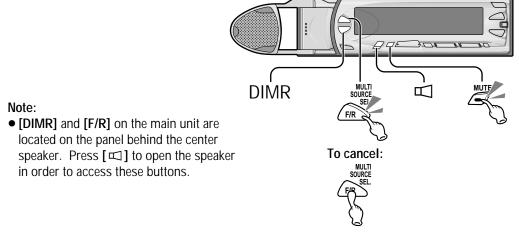
Does not permit adjustment of the panel tilt.

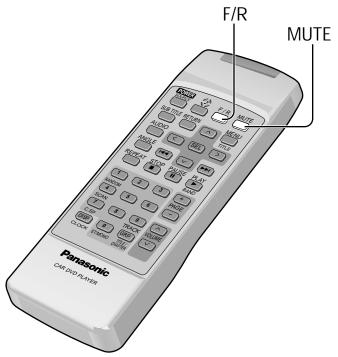
## **Useful Functions**

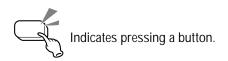


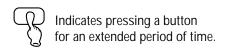
## **Useful Functions** (continued)

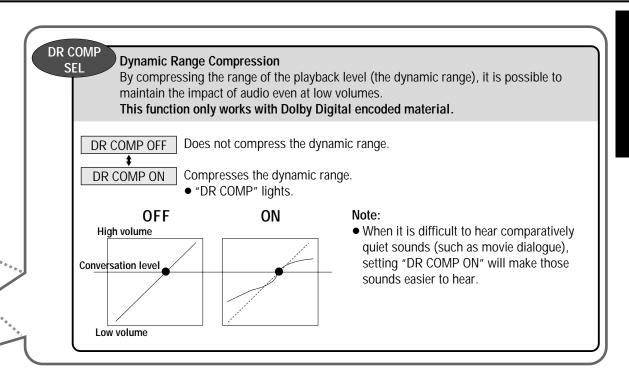












## Lowering the Volume Temporarily (Mute/Attenuator)

The extent to which the volume is lowered depends on the MUTE/ATT setting. (\Rightarrow page 49)



#### When MUTE is set:

MUTE OFF MUTE ON

Normal volume

Volume goes to "0" (silence).

#### When ATT is set:

ATT OFF \$ ATT ON

Normal volume

Volume goes to 1/10 of what it was.

When Mute/Attenuate is "ON", "MUTE" blinks and you can not operate except for some buttons.

## Listening to Separate Sources on the Front and Rear Speakers

#### Multi Source Selector

It is possible to simultaneously listen to different sources on the front and rear speakers (excluding the tuner).



FRONT MAIN

For front speaker operation

**REAR MAIN** 

For rear speaker operation

- "• MAIN" or "• MAIN" lights (or blinks while an operation is in progress).
- No sound is output from the center speaker and the subwoofer.
- The following settings can be made for the front and rear speakers separately:
  - Volume
  - Source
  - Sound settings (loudness, bass, treble, balance) (→ pages 43, 45)

#### To cancel:



Hold (2 seconds)

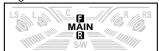
- The volume, source, and sound settings for the front become the settings for the whole system.
- If the F/R mode is cancelled when the front mode is off, the power turns off.
- Turning off the power does not cancel the separate front/rear settings.

#### Notes:

- The separate front/rear settings are not valid when the unit is in TUNER mode.
- Pressing [MUTE](ATT) mutes the volume of both sets of speakers to "0" (or "1/10").
- The speaker output setting automatically becomes "DOWN MIX ON". (→ page 43)



#### Regular mode



## Installation



## **WARNING**

The installation information is designed for experienced installers and is not intended for non-technical individuals. It does not contain warnings or cautions of the potential dangers involved in attempting to install this product.

Any attempt to install this product in a motor car by anyone other than a qualified installer could cause damage to the electrical system and could result in serious personal injury or death.

#### □ Overview

This product should be installed by a professional. However, if you plan to install this unit yourself, your first step is to decide where to install it. The instructions in these pages will guide you through the remaining steps: (Please refer to the "WARNING" statement above.)

- Identify and label the car wires.
- Connect the car wires to the wires of the power connector.
- Install the unit in the dash.
- Check the operation of the unit.

If you encounter problems, please consult your nearest professional installer.

Caution: This unit operates with a 12 volt DC negative ground auto battery system only. Do not attempt to use it in any other system. Doing so could cause serious damage.

Before you begin installation, look for the following items which are packed with your unit.

- Warranty Card...Fill this out promptly.
- Panasonic Servicenter List for Service
   Directory ...Keep for future reference in case the unit needs servicing.
- Installation Hardware...Needed for in-dash installation.

#### Installation Hardware

No.	Item	Diagram	Qty	No.	Item	Diagram	Qty
1	Shipping Bracket (For installing the Power Amplifier Unit)	O the	2	7	Rear Support Strap	Care Constitution	1
2	Power Amplifier Unit		1	8	Tapping Screw (5 mm $\phi$ ×16 mm)	O Time	1
3	Velcro Tape	\$	1	9	Mounting Bolt (5 mm $\phi$ )	<b>ST</b>	1
4	Binding Screw (5 mm $\phi$ ×12 mm)		1	10	Power Connector		1
(5)	Mounting Collar		1	11)	Removable Face Plate Case	Panaonic	1
6	Hex. Nut (5 mm $\phi$ )	•	1	12	Trim Plate		1

## Installation (continued)

#### Connect All Leads

Now that you have identified all the wires in the car, you're ready to begin connecting them to the stereo unit wires. The connection diagram (→ page 62) shows the proper connections and color coding of the leads.

We strongly recommend that you test the unit before making a final installation.

You can set the unit on the floor and make temporary connections to test the unit. Use electrical tape to cover all exposed wires.

**Important:** Connect the red power lead last, after you have made and insulated all other connections.

#### Ground

Connect the black ground lead of the power connector to the metal car chassis.

#### **Speakers**

Connect the speaker wires. See the connection diagram (→ page 62) for the proper hookups. Follow the diagram carefully to avoid damaging the speakers and the stereo unit.

The speakers used must be able to handle more than 45 watts of audio power. If using an optional audio amplifier, the speakers should be able to handle the maximum amplifier output power. Speakers with low input ratings can be damaged. Speaker impedance should measure 4–8 ohms, which is typically marked on most speakers. Lower or higher impedance speakers will affect output and can cause both speaker and stereo unit damage.

Caution: Never ground the speaker cords. For example, do not use a chassis ground system or a three-wire speaker common system. Each speaker must be connected separately using parallel insulated wires. If you are in doubt about how your car's speakers are wired, please consult your nearest professional installer.

#### Motor Antenna

Connect the car motor antenna lead to the blue motor antenna relay control lead.

#### **Battery**

Connect the yellow battery lead to the correct radio wire or to the battery fuse port on the fuse block.

#### **Antenna**

Connect the antenna by plugging the antenna lead into the antenna receptacle.

#### **Product**

Connect any optional product such as an amplifier, according to the instructions furnished with the product. Leave about 12 inches (30 cm) of distance between the speaker cords/amplifier unit and the antenna/antenna extension cord. Read the operating and installation instructions of any product you will connect to this unit.

#### **Power**

Connect the red power lead to the correct car radio wire or to the appropriate fuse port on the fuse block.

If the stereo unit functions properly with all these connections made, disconnect the wires and proceed to the final installation.

## ☐ Final Installation ·

#### **Lead Connections**

Connect all wires, making sure that each connection is insulated and secure. Bundle all loose wires and fasten them with tape so they won't fall down later. Now insert the stereo unit into the mounting collar.

Congratulations! After making a few final checks, you're ready to enjoy your new auto stereo system.

#### ☐ Final Checks

- 1. Make sure that all wires are properly connected and insulated.
- 2. Make sure that the stereo unit is securely held in the mounting collar.
- 3. Turn on the ignition to check the unit for proper operation.

If you have difficulties, consult your nearest authorized professional installer for assistance.

### ☐ Required Tools

You'll need a screwdriver, a 1.5 volt AA battery, and the following:

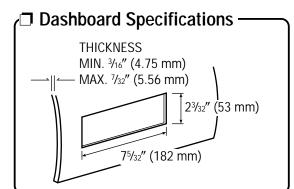
12 V DC TEST ELECTRICAL **BULB** TAPE







SIDF-CUT



### ☐ Identify All Leads

The first step in installation is to identify all the car wires you'll use when hooking up your sound system.

As you identify each wire, we suggest that you label it using masking tape and a permanent marker. This will help avoid confusion when making connections later.

**Note:** Do not connect the power connector to the stereo unit until you have made all connections. If there are no plastic caps on the stereo hooking wires, insulate all exposed leads with electrical tape until you are ready to use them. Identify the leads in the following order.

#### Power Lead

If your car has a radio or is pre-wired for one: Cut the connector wires one at a time from the plug (leaving the leads as long as possible) so that you can work with individual leads.





Turn the ignition on to the accessory position, and ground one lead of the test bulb to the chassis. Touch the other lead of the test bulb to each of the exposed wires from the cut radio connector plug. Touch one wire at a time until you find the outlet that causes the test bulb to light.

Now turn the ignition off and then on. If the bulb also turns off and on, that outlet is the car power lead.

If your car is not wired for an audio unit: Go to the fuse block and find the fuse port for radio (RADIO), accessory (ACC), or ignition (IGN). **Battery Lead** 

If your stereo unit has a yellow lead, you will need to locate the car's battery lead. Otherwise you may

ignore this procedure. (The yellow battery lead provides continuous power to maintain a clock, memory storage, or other function.)

If your car has a radio or is pre-wired for one: With the ignition and headlights off, identify the car battery lead by grounding one lead of the test bulb to the chassis and checking the remaining exposed wires from the cut radio connector plug. If your car is not wired for an audio unit: Go to the fuse block and find the fuse port for the battery which is usually marked BAT.

#### Speakers

Identify the car speaker leads. There are two leads for each speaker which are usually color coded. A handy way to identify the speaker leads and the speaker they are connected with is to test the leads using a 1.5 volt AA battery as follows.

Hold one lead against one pole of the battery and stroke the other lead across the other pole. You will hear a scraping sound in one of the speakers if you are holding a speaker lead.

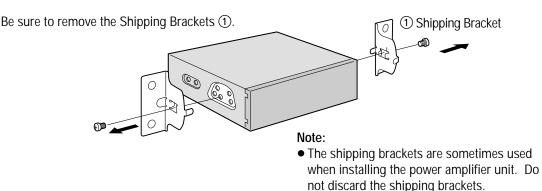
If not, keep testing different lead combinations until you have located all the speaker leads. When you label them, include the speaker location for each.

#### **Antenna Motor**

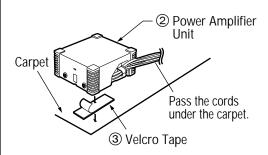
If your car is equipped with an automatic power antenna, identify the car motor antenna lead by connecting one bulb tester lead to the car battery lead and touching the remaining exposed wires from the cut radio connector plug one at a time. You will hear the antenna motor activate when you touch the correct wire.

#### Antenna

The antenna lead is a thick, black wire with a metal plug at the end.



### ☐ Power Amplifier Unit -



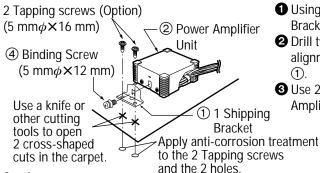
Using Velcro Tape ③, secure the Power Amplifier Unit ② underneath the passenger seat.

 Affix the adhesive-backed Velcro Tape ③ to the bottom of the power amplifier unit, and then place the unit on the carpet under the seat.

#### Note:

 Velcro Tape ③ may not adhere to some types of carpet.

#### When using the shipping bracket ①



**1** Using a Binding Screw **4**, attach a Shipping Bracket **1** to the Power Amplifier Unit **2**.

2 Drill two 3.5 mm holes in the body of the car in alignment with the holes in the Shipping Bracket ①.

3 Use 2 Tapping screws to attach the Power Amplifier Unit 2 to the car.

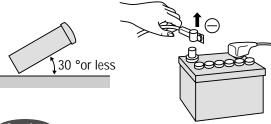
#### Cautions:

- Continuous use of this unit will cause the power amplifier unit to become hot. Be careful not to touch the power amplifier unit while it is in operation. Also, do not place other objects on top of the power amplifier unit.
- Do not install the power amplifier unit in a location where it may be subject to damage from overheating, such as next to a heater vent, or in a location exposed to direct sunlight such as the dashboard or the rear window deck.
- Do not install the power amplifier unit near a door or other locations where it may be readily exposed to water or stepped on.
- Clean away all oil, moisture, dust, etc., from the surface where the velcro tape is to be applied.
- When drilling holes in the car, make certain that you do not damage any pipes or wiring on the underside of the car.
- When installing the power amplifier unit, make sure that the cord is positioned in a location where it will not be pinched or damaged when the seat slides forward or backward.

## Installation (continued)

- Preparation

   Before installation, check the radio operation with antenna and speakers.
- battery terminal (see caution below).
- Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.



#### Caution

 Do not disconnect the battery terminals of a car with a trip or navigational computer since all user settings stored in memory will be lost. Instead take care with installing the unit to prevent shorts.

#### **Dashboard Installation Installation Opening**

This unit can be installed in any dashboard having an opening as shown at right. The dashboard should be 4.5 mm-6 mm thick in order to be able to support the unit.

#### **Installation Precautions**

This product should be installed by a professional installer, if possible.

In case of difficulty, please consult your nearest authorized Panasonic Service Center.

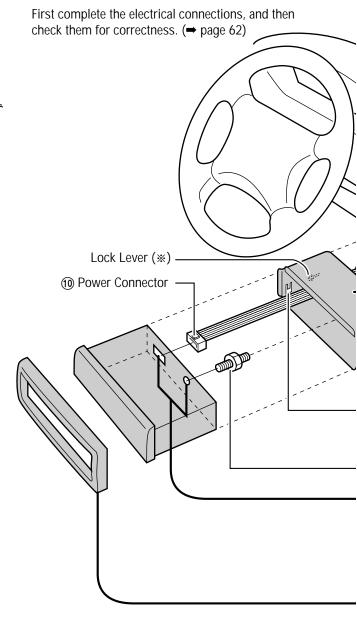
- 1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
- 2. Follow the electrical connections carefully. (**⇒** page 62)

Failure to do so may result in damage to the unit.

- 3. Connect the power lead after all other connections are made.
- 4. Be sure to connect the battery lead (yellow) to the positive terminal 

  of the battery or fuse block (BAT) terminal.
- 5. Insulate all exposed wires to prevent short circuiting.
- 6. Secure all loose wires after installing the unit.
- 7. Please carefully read the operating and the installation instructions of the respective equipment before connecting it to this unit.

 We strongly recommend that you wear gloves for installation work to protect yourself from injuries.



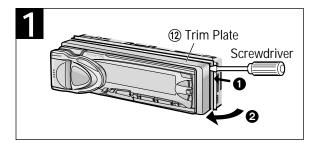
## Installation (continued)

## Remove the Unit

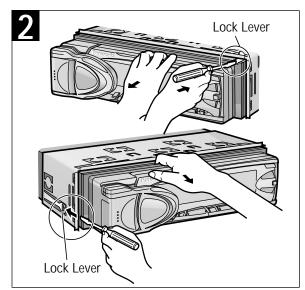
#### Preparation:

Make sure that the panel and the center speaker are closed.

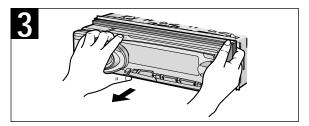
Remove the trim plate ① with a screw driver.



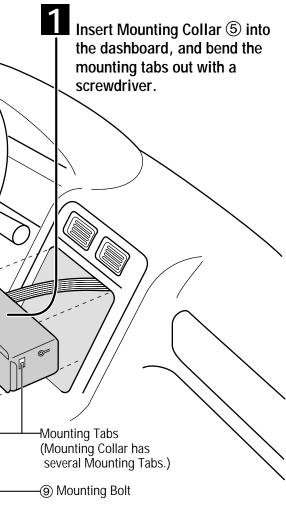
Pull out the unit while pushing down the lock lever with a screw driver.



Remove the unit pulling with both hands.



 When bending the mounting tabs of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.



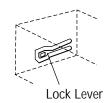
2

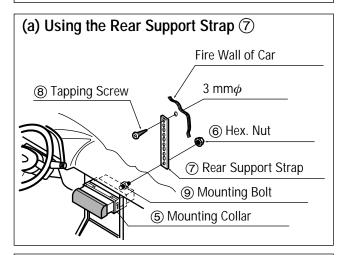
After fixing Mounting Bolt (9) and Power Connector (10), fix the rear of the unit to the car body by either method (a) or (b) shown at right.

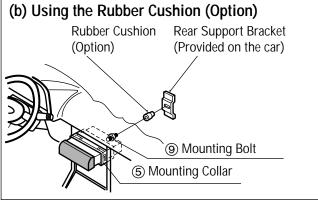
Secure the rear of the unit.

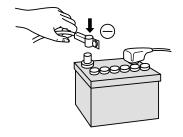
Insert Trim Plate ①.

Make sure that the lock lever (\*\*) is flush with the mounting collar (not projecting outward).









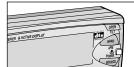
## **Anti-Theft System**

This unit is equipped with a removable face plate. Removing this face plate makes the radio totally inoperable. The security indicator will blink.

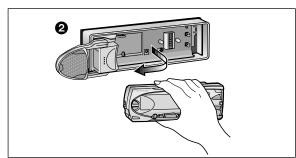
# Remove the removable face plate.

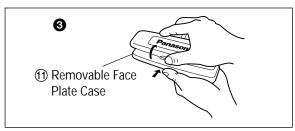






- When the removable face plate comes off, the center speaker opens. (The center speaker stays open.)
- **2** Remove the removable face plate by pulling on the right side of the unit.
- Gently press the button of the case and open the cover. Place the face plate into the case and take it with you when you leave the car.



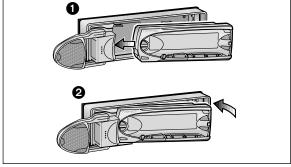


#### Cautions

- Do not touch the contacts on the face plate or on the main unit, since this may result in poor electrical contacts.
- If dirt or other foreign substances get on the contacts, wipe them off with a clean and dry cloth.
- Do not apply a strong downward force onto the face plate and do not put anything on it while it is open, or it might be damaged.
- This face plate is not water-proof. Do not expose it to water or excessive moisture.
- Do not remove the face plate while driving your car.
- Do not place the face plate on the dashboard or nearby areas where the temperature rises to high levels.

### **Install Removable Face Plate**

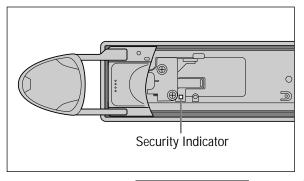
- Slide the left side of the removable face plate in place.
- Press the right end of removable face plate until a "click" is heard.



## **Security Indicator**

The security indecator blinks when the removable face plate is removed from the unit. (→ page 49)

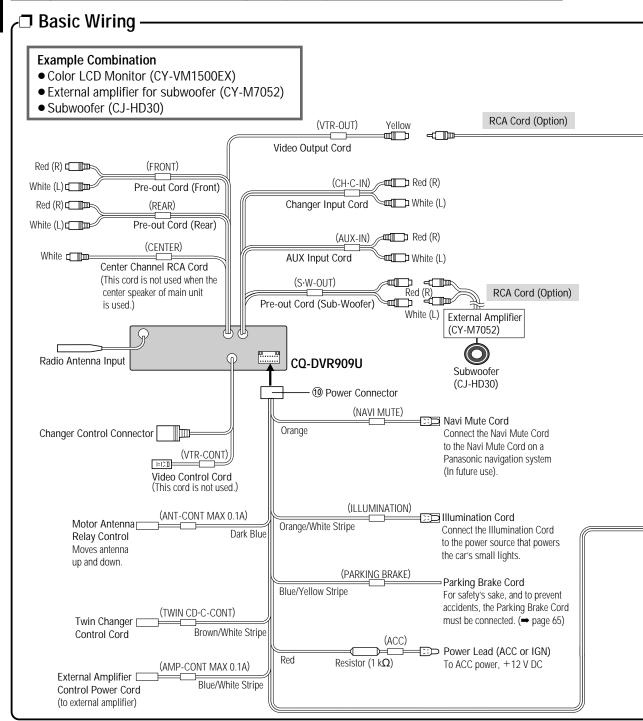
- Press and hold [SEL] for more than 2 seconds to change to function control mode.
- 2 Press [SEL] to select "S-LED SEL".
- Press [\$] [%] to turn the security indicator (S-LED) on.



## Wiring Connections

### □ Accessories used for wiring

No.	Item	Qty	No.	Item	Qty
2	Power Amplifier Unit	1	14)	Battery Extension Lead	1
10	Power Connector	1	15)	Speaker Extension Lead	1
13	Ground Extension Lead	1	16	Clamp Connector	1

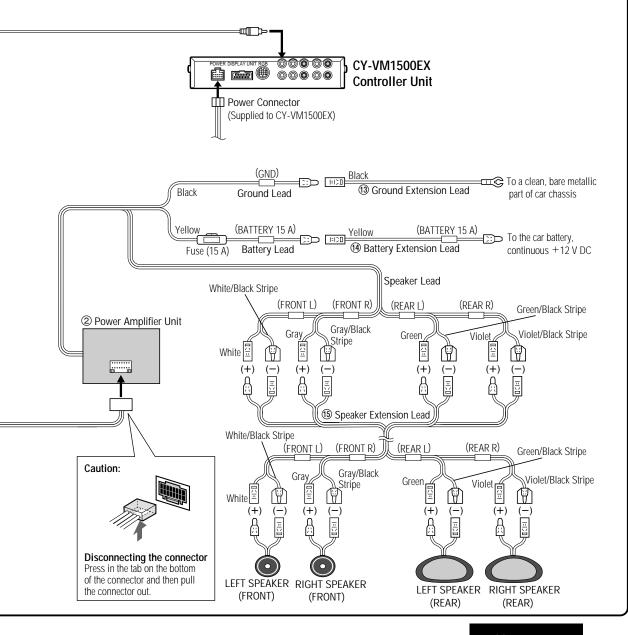


## Wiring Connections (continued)

#### Upgrading the System • This unit can be connected to an optional CD **Example Combination** changer (CX-DP801U/88U). For details • CD changer (CX-DP801U) consult your nearest Panasonic dealer. CD changer (CX-DP88U) • For connection to the CD changer, refer to the Stereo power amplifier operating instructions of the CD changer Upgraded system speakers (CX-DP801U/88U). CX-DP801U (1) **Battery Lead DIN Connector** Fuse (3 A) Ground Lead €== Be sure to connect to a well grounded metallic part of your car because noises or troubles White (L) Red (R) **DIN Extension Cord** (Supplied to CA-CD55) Changer 1 Connecting Cord (CD.C-1) Changer Connector (CD.C-2) Changer 2 Connecting Cord CA-CD55 DIN <u>\_Connector</u> Twin Changer Output Cord CO-DVR909U 10 Power Connector Red (R) White (L) White (L) (TWIN (TWIN CD·C-CONT) CD·C-CONT) Red (R) Twin Changer Control Cord Fuse (3 A) Brown/White Stripe Yellow Battery Lead Changer Input Cord White (L) Ground Lead RCA Cord Pre-out Cord Pre-out Cord Red (R) (CH·C-IN) (Option) (Rear) (RFAR) (FRONT) 8 White (L) Red (R) White (L) Red (R) (If only 1 Changer is used, 1 connect as indicated by RCA Cord RCA Cord (Option) (Option) CX-DP88U Stereo Power Stereo Power Amplifier Pre-out front/rear output is adjusted Amplifier with the equipped amplifier. Upgraded System Speakers Upgraded System Speakers

#### Cautions

- This product is designed to operate of a 12 volt, negative ground battery system.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove approx. 5 mm of protective covering from the ends of the leads before connecting.
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.
- Note that if your car has a driving computer or a navigation computer, disconnecting the battery cables may cause the contents of memory for these computers to be lost.



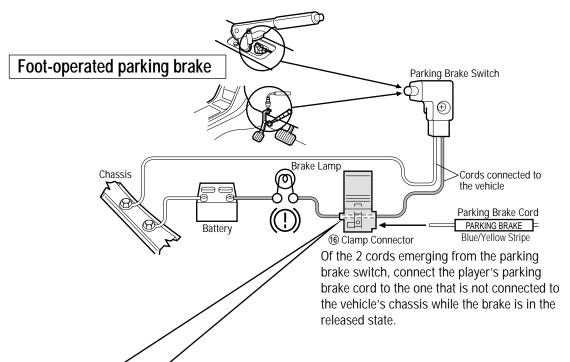
#### Caution:

 For safety's sake, and to prevent accidents, the parking brake cord must be connected.

#### Note:

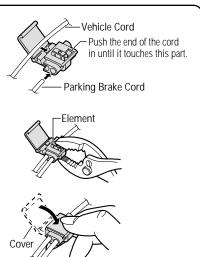
 The position of the parking brake switch depends on the car. (The figure shows examples of where the switch might be located.) For details on the exact location of the parking brake switch in your car, contact your dealer.

### Hand-operated parking brake



### Connecting the clamp connector (16)

- Attach the clamp connector to the vehicle cord at a suitable position.
- Note that if the cord being clamped onto is too thin (0.3 mm² or less), the connection may not be adequate.
- Push the end of the side brake cord into the hole on the clamp connector.
  - Place the vehicle cord into the groove in the clamp connector.
- While making sure that the cords do not slip out of the clamp connector, press the element down with a pair of pliers.
- 3 Close the cover until it snaps shut.



## **Troubleshooting**

#### ☐ Maintenance

Your product is designed and manufactured to ensure the minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

#### ☐ When Something Doesn't Work

Check the chart for possible causes and solutions to the problem you might be experiencing. Some simple checks or minor adjustments may eliminate the problem.

#### Product Servicing

If the suggestions in the charts don't solve the problem, we recommend that you take it to your nearest authorized Panasonic Servicenter. The unit should be serviced only by a qualified technician.

### □ Replacing the Fuse

Use fuses of the same specified rating (15 amps). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit. If the replacement fuse fails, contact your nearest Panasonic Servicenter for service.

## **Error Display Messages**

#### □ DVD/Video CD/CD

Display	Cause	Check/Remedy
E1 PLS EJECT E2 PLS EJECT	<ul> <li>Either the disc is dirty, or upside down.</li> <li>Either the disc is scratched or has some other problems. The disc is not playable.</li> </ul>	Press [▲] and check the disc.
E3 PLS EJECT	The unit will not operate for some reason.	Eject the disc. If the disc does not eject when you press [▲], then simply press the reset switch.
PAL/NTSC ERR	An attempt was made to play a PAL disc.	Press [▲] and check the disc.
REGION ERR	An attempt was made to play a disc with a region number that was not "1" or "ALL".	Press [▲] and check the disc.
PLS VER UP	The unit will not operate for some reason.	Eject the disc. If the disc does not eject when you press [▲], then simply press the reset switch. If the unit still does not operate, contact your nearest Panasonic Servicenter for service.

# Troubleshooting (continued)

#### □ Panel

ranci		
Symptom	Remedy	Page
Cannot adjust the tilt of the panel.	Change the tilt setting to "ON".	27

□ Radio			
Symptom		Remedy	Page
There is a lot of noise in FM stereo and monaural broadcasts.		Select another station with a stronger signal.	28
Station presets were cancelled.		Connect the battery power cord to a terminal that is always supplied with power.	62
□ DVD/Video CD/C	D		
Symptom		Remedy	Page
The sound skips. The sound quality is poor.		Refer to the section "Disc Notes" and clean the disc.	70
		• Install the unit at an angle less than 30 degrees.	58

## Vibrations cause skips.

The o

disc will not eject.	Open the panel and press [▲]. If the disc still does not eject, press the reset switch.	
	Consideration has formed in the control Mail 1 and house for the	

is securely attached to the mounting bracket, etc.

The disc will not play, or else it stops very quickly.

Condensation has formed in the unit. Wait 1 of 2 hours for the	=
unit to dry, and then try again.	
<ul> <li>The unit can only play the following types of discs: DVD video,</li> </ul>	22
DVD audio, video CD, and music CD.	
<ul><li>Refer to the section "Disc Notes" and clean the disc.</li></ul>	70
<ul><li>Insert the disc with the label facing up.</li></ul>	30

Refer to the section on installation and make sure that the unit

58

38

The picture does not appear on the TV.

<ul><li>Check the connections.</li></ul>	62
<ul><li>Check the settings for the TV itself.</li></ul>	=
<ul><li>Set the initial setting "TV SELECT" to "YES".</li></ul>	38
• Stop the car and apply the parking brake.	31

The buttons do not work.

Some operations are not permitted with certain discs.

Video CD menu playback does not work

Menu playback is only possible when playing a video CD that has the playback control feature.

The picture becomes distorted while fast forwarding or reversing

A certain amount of distortion is normal.

No subtitles appear.

Subtitles must be recorded on the disc, or they will not appear. (Refer to the guide provided with your disc.)

The size on the connected TV is not 4:3 (16:9).

Set "TV ASPECT" correctly in accordance with the TV that you are using.

Changer		
Display	Cause	Check/Remedy
CD · CH—E1— CD · CH—E2—	Either the disc is dirty, or upside down.     There is a scratch on the disc.	Check the disc. (The changer automatically switches to the next disc.)
CD · CH—E3—	The changer will not operate for some reason.	Press [ <b>△</b> ] on the changer. If the changer does not respond, press the changer's reset switch.
NO DISC	There are no discs in the changer or magazine.	Load discs in the changer or magazine.

#### Notes

- The number of the disc that is the cause of the error is sometimes displayed before "E1" or "E2".
- Depending on the changer, the information that is displayed and the remedy may sometimes differ in part. For details, refer to the User's Manual provided with your changer.

## **Troubleshooting Tips**

### □ Common

Symptom	Remedy	Page
The power does not come on.	<ul> <li>Turn the ignition switch to "ON" or "ACC".</li> <li>Connect the cords correctly.</li> <li>Replace the fuse.</li> </ul>	= 62-65 66
The unit produces no sound.	<ul> <li>Turn muting off.</li> <li>Connect the cords correctly.</li> <li>Wait until the condensation clears.</li> </ul>	53 62-65 =
The buttons do not work.	<ul> <li>Change the display to something other than demo mode and then try again.</li> <li>Set the MUTE/ATT to "OFF".</li> </ul>	26 53
Cannot set the clock.	Press [POWER] and turn the power on before attempting to set the clock.	26

#### □ Remote Control

- Kemote control		
Symptom	Remedy	Page
Pressing the buttons has no effect.	<ul> <li>Insert the batteries correctly.</li> <li>Make sure that the batteries are of the correct type.</li> <li>Replace the batteries.</li> <li>Point the remote control at the remote control sensor labeled "REMOTE".</li> </ul>	22 22 22 =

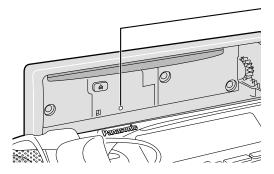
### □ DVD/Video CD/CD (Continued)

Symptom	Remedy	Page
It is difficult to hear quiet sounds.	Set the DR COMP setting to "DR COMP ON".	50
Cannot switch the audio language/subtitle language/angle.	<ul> <li>It is not possible to switch if the disc does not have multiple audio languages/subtitle languages/angles recorded on it. (Refer to the guide provided with your disc.)</li> <li>Some discs permit switching through a menu screen.</li> <li>Sometimes, switching angles is possible only with certain scenes.</li> </ul>	= 35 =
The audio/subtitle language selected in the initial settings is not used.	If audio or subtitles in that language are not recorded on the disc, the audio or subtitles do not switch to that language. (Some discs permit switching through a menu screen. Refer to the guide provided with your disc.)	35
Messages in the menu screen are not in the desired language.	Check the setting for "MENU LAN" in the initial settings.	38

### □ Sound Settings

Symptom	Remedy	Page
No sound is output from a speaker.	<ul> <li>Adjust "BAL//FAD" to a suitable position.</li> <li>Connect the cords correctly.</li> <li>Correct the speaker settings.</li> </ul>	45 62 25
No sound is output from the center speaker.	<ul> <li>Open the center speaker.</li> <li>Raise the output level/volume.</li> <li>Change the separately purchased speaker setting to "NONE".</li> <li>Set the surround setting to "PROLOGIC ON".</li> <li>Set the speaker output setting to "DOWN MIX OFF".</li> <li>Cancel the separate front/rear settings.</li> </ul>	26 25/45 25 43 43 53
When playing in stereo, left and right channels are reversed.	Connect the speaker cords correctly.	62-64
DR COMP does not work. ("DR COMP" does not light.)	This function only works with Dolby Digital encoded material.	51

## If the Unit does not Operate Properly



#### **Reset Switch**

Push a thin, unbreakable object into this hole to press the reset switch.

• After a reset, the unit reverts to its initial state. Note that any information or settings stored in the unit's memory will be lost.

#### Caution

• Press the reset switch if pressing any of the other buttons has no effect.

## **Disc Notes**

### Handling and Cleaning-

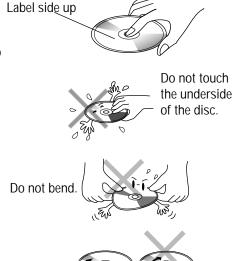
- Dirt, dust, scratches and warping discs will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent it from becoming damaged.
- Do not place discs in the following places:
  - 1. Direct sunlight
  - 2. Dirty, dusty and damp areas
  - 3. Near car heaters
  - 4. On the seats or dashboard

#### **Disc Cleaning**

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistured with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner or conventional record cleaners as they may mar the surface of the disc.

#### Note:

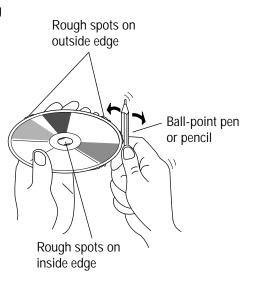
 A disc may become somewhat scratched (although not enough to make it unusable) depending on how you handle it and conditions in the usage environment. Note that these scratches are not an indication of any problem with the player.



Wipe the disc from the center toward the outside edge.

### ☐ Preparing New Discs with Rough Spots

A new disc may have rough spots on its inside and outside edges. If a disc with rough spots is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough spots in advance by using a ball-point pen or pencil as shown on the right. To remove the rough spots, press the side of the pen or pencil against the inside and outside edges of the disc.



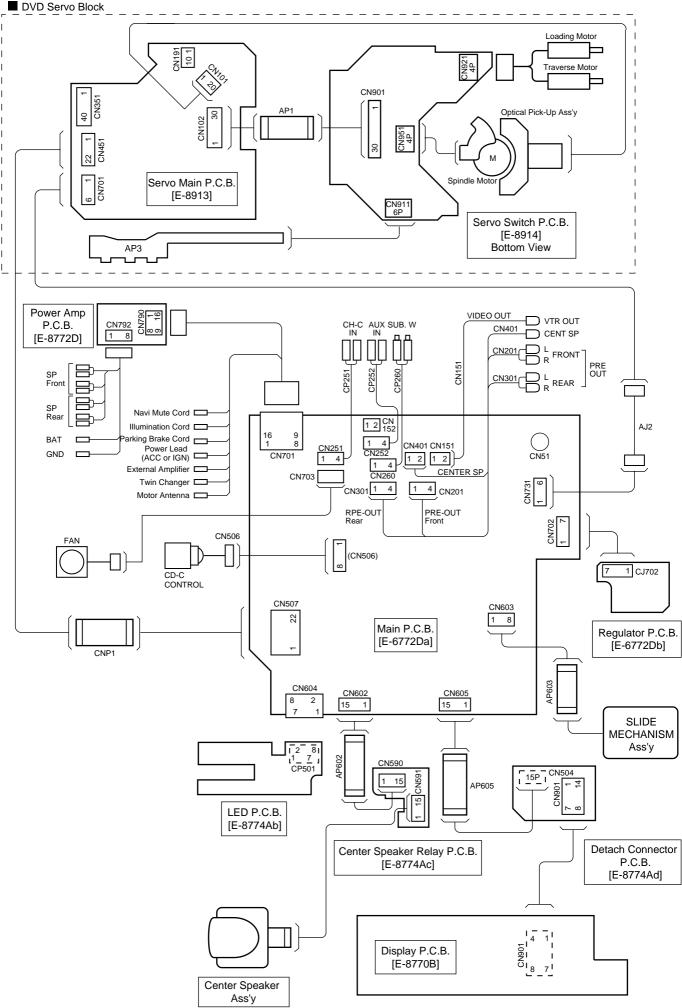
# Language Code List

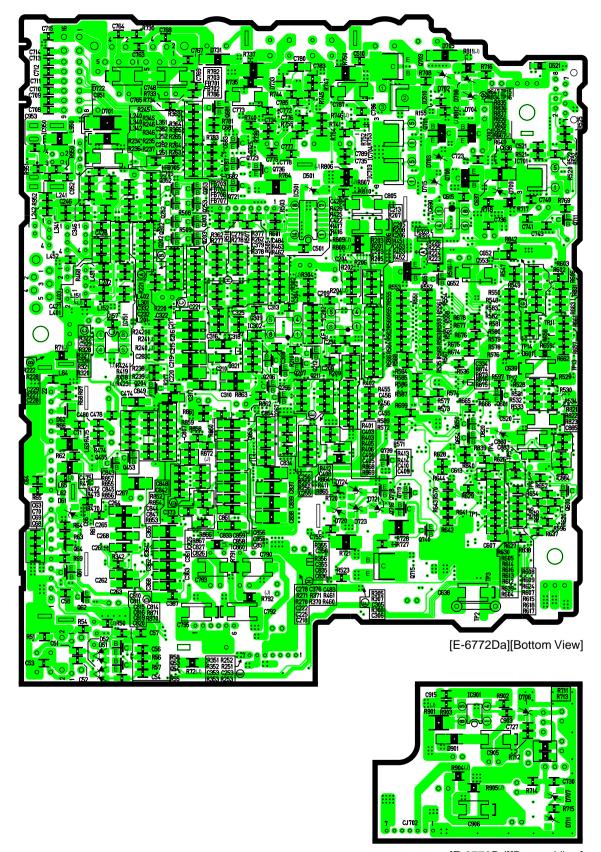
How to input the language code, refer to page 38.

Code	Language Name
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Ameharic
6582	Arabic
6583	Assamese
6588	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi
7282	Croatian
7285	Hungarian

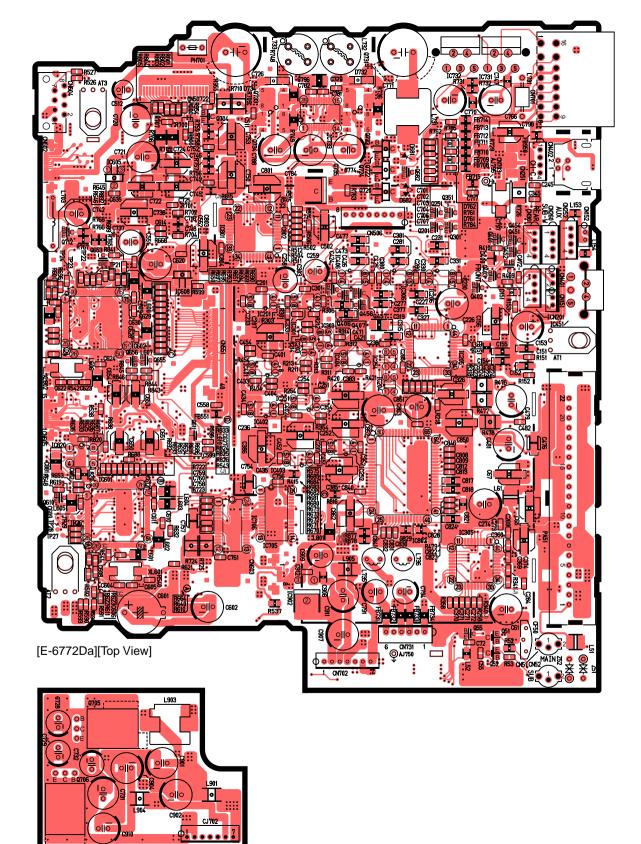
Code	Language Name			
7289	Armenian			
7365	Interlingua			
7378	Indonesian			
7383	Icelandic			
7384	Italian			
7387	Hebrew			
7465	Japanese			
7473	Yiddish			
7487	Javanese			
7565	Georgian			
7575	Kazakh			
7576	Greenlandic			
7577	Cambodian			
7578	Kannada			
7579	Korean			
7583	Kashmiri			
7585	Kurdish			
7589	Kirghiz			
7665	Latin			
7678	Lingala			
7679	Laothian			
7684	Lithuanian			
7686	Latvian, Lettish			
7771	Malagasy			
7773	Maori			
7775	Macedonian			
7776	Malayalam			
7778	Mongolian			
7779	Moldavian			
7782	Marathi			
7783	Malay			
7784	Maltese			
7789	Burmese			
7865	Nauru			
7869	Nepali			
7876	Dutch			
7879	Norwegian			
7982	Oriya			
8065	Panjabi			
8076	Polish			
8083	Pashto, Pushto			
8084	Portuguese			
8185	Quechua			

Code	Language Name
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoan
8378	Shona
8379	Somali
8381	Albanian
8382	Serbian
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapük
8779	Wolof
8872	Xhosa
8979	Yoruba
9072	Chinese
9085	Zulu

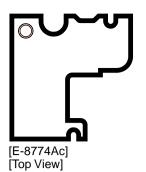


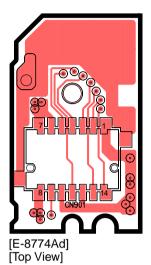


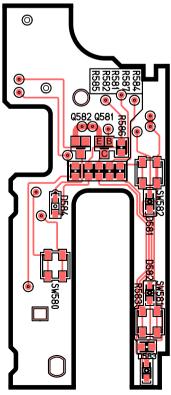
[E-6772Dd][Bottom View]



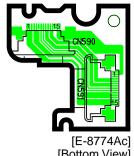
[E-6772Db][Top View]



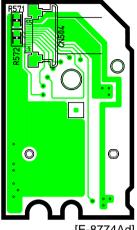




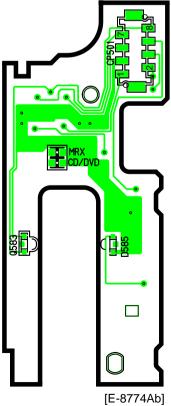




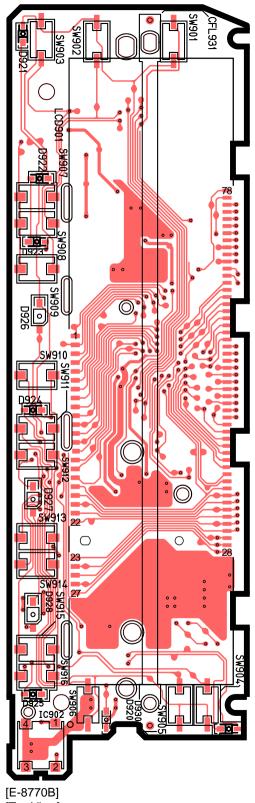
[E-8774Ac] [Bottom View]

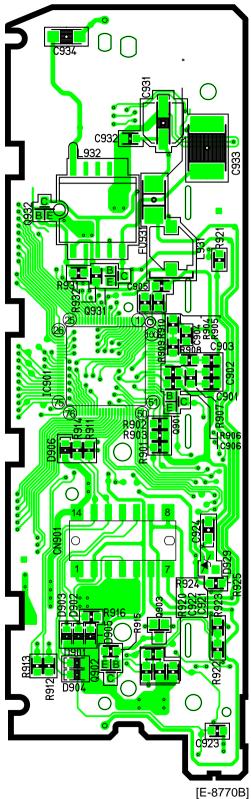


[E-8774Ad] [Bottom View]



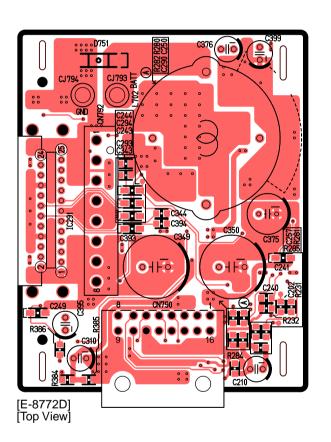
[Bottom View]

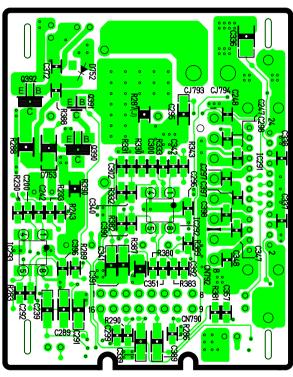




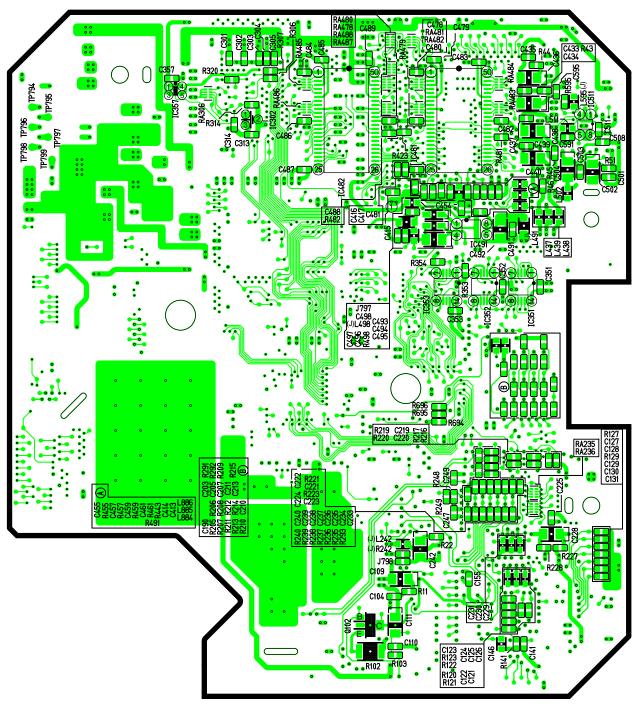
[E-8770B] [Top View]

[Bottom View]

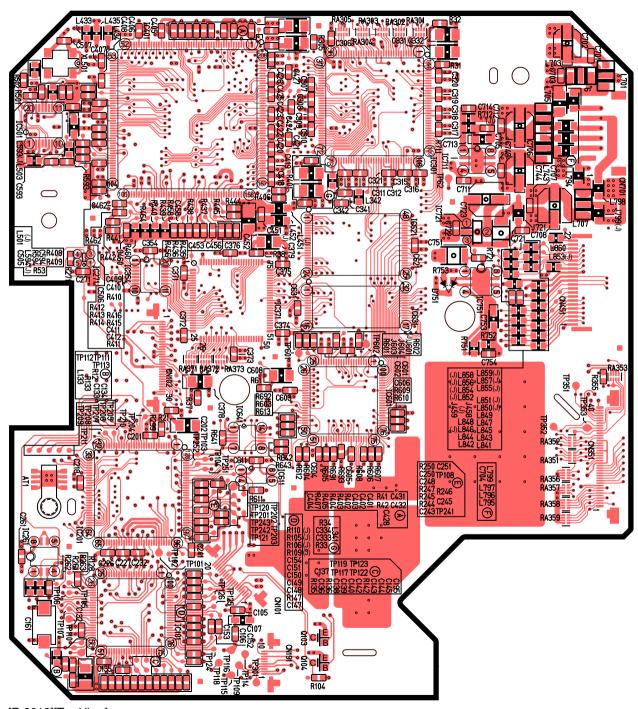




[E-8772D] [Bottom View]



[E-8913][Bottom View]



[E-8913][Top View]

