

Safety Information

- Read the operating instructions for the unit and all other components of your car audio system carefully before using the system. They contain instructions about how to use the system in a safe and effective manner. Panasonic assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.

- This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operations. The meanings of the pictographs are explained below. It is important that you fully understand the meanings of the pictographs in order to use this manual and the system properly.



Warning

This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in severe injury or death.



Caution

This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in injury or material damage.

Warning

Observe the following warnings when using this unit.

- ❑ **The driver should neither watch the display nor operate the system while driving.**

Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system.

- ❑ **Use the proper power supply.**

This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.

- ❑ **Keep batteries and insulation film out of reach of infants.**

Batteries and insulation film can be ingested, so keep them out of the reach of infants. If an infant ingests a battery or insulation film, please seek immediate medical attention.

- ❑ **Protect the Deck Mechanism.**

Do not insert any foreign objects into the slot of this unit.

- ❑ **Do not disassemble or modify the unit.**

Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or an authorized Panasonic Servicenter.

- ❑ **Do not use the unit when it is out of order.**

If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.

- ❑ **The remote control unit should not lie about in the car.**

If the remote control unit lies about, it could fall on the floor while driving, get wedged under the brake pedal, and lead to a traffic accident.

- ❑ **Refer fuse replacement to qualified service personnel.**

When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service engineer. Incorrect replacement of the fuse may lead to smoke, fire, and damage to the product.

Observe the following warnings when installing.

- ❑ **Disconnect the lead from the negative (–) battery terminal before installation.**

Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit.

Some cars equipped with the electrical safety system have specific procedures of battery terminal disconnection.

FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.

- ❑ **Never use safety-related components for installation, grounding, and other such functions.**

Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.) for wiring or fixing the product or its accessories.

- ❑ **Installing the product on the air bag cover or in a location where it interferes with airbag operation is prohibited.**

- ❑ **Check for piping, gasoline tank, electric wiring, and other items before installing the product.**

If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.

- ❑ **Never install the product in a location where it interferes with your field of vision.**

- ❑ **Never have the power cord branched to supply other equipment with power.**

- ❑ **After installation and wiring, you should check the normal operation of other electrical equipment.**

The continuation of their using in abnormal conditions may cause fire, electrical shock or a traffic accident.

- ❑ **In the case of installation to an airbag-equipping car, confirm warnings and cautions of the vehicle manufacturer before installation.**

- ❑ **Make sure the leads do not interfere with driving or getting in and out of the vehicle.**

- ❑ **Insulate all exposed wires to prevent short circuiting.**

Caution

Observe the following cautions when using this unit.

- ❑ **Keep the sound volume at an appropriate level.**
Keep the volume level low enough to be aware of road and traffic conditions while driving.
- ❑ **Do not insert or allow your hand or fingers to be caught in the unit.**
To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.
- ❑ **This unit is designed for use exclusively in automobiles.**
- ❑ **Do not operate the unit for a prolonged period with the engine turned off.**
Operating the audio system for a long period of time with the engine turned off will drain the battery.
- ❑ **Do not expose the unit to direct sunlight or excessive heat.**
Otherwise these will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit.
- ❑ **Do not use the product where it will be exposed to water, moisture, or dust.**
Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.

Observe the following cautions when installing.

- ❑ **Refer wiring and installation to qualified service personnel.**
Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Panasonic is not liable for any problems resulting from your own installation of the unit.
- ❑ **Follow the instructions to install and wire the product.**
Not following the instructions to properly install and wire the product could cause an accident or fire.
- ❑ **Take care not to damage the leads.**
When wiring, take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, screws, and moving parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be run over sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.
- ❑ **Use the designated parts and tools for installation.**
Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty installation may lead to an accident, a malfunction or fire.
- ❑ **Do not block the air vent or the cooling plate of the unit.**
Blocking these parts will cause the interior of the unit to overheat and will result in fire or other damage.

- ❑ **Do not install the product where it is exposed to strong vibrations or is unstable.**
Avoid slanted or strongly curved surfaces for installation. If the installation is not stable, the unit may fall down while driving and this can lead to an accident or injury.
- ❑ **Installation Angle**
The product should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.
The user should bear in mind that in some areas there may be restrictions on how and where this unit must be installed. Consult your dealer for further details.
- ❑ **Wear gloves for safety. Make sure that wiring is completed before installation.**
- ❑ **To prevent damage to the unit, do not connect the power connector until the whole wiring is completed.**
- ❑ **Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)**

Observe the following cautions when handling the battery for the remote control unit.

- Use only specified battery (CR2025).
- Match the polarity of the battery with the (+) and (-) marks in the battery case.
- Replace a dead battery as soon as possible.
- Remove the battery from the remote control unit when not using it for an extended period of time.
- Insulate the battery (by placing them in a plastic bag or covering them with vinyl tape) before disposal or storage.
- Dispose of the battery according to the local regulations.
- Do not disassemble, recharge, heat or short the battery. Do not throw a battery into a fire or water.

In case of battery leakage

- Thoroughly wipe the battery liquid off the battery case and insert new battery.
- If any part of your body or clothing comes into contact with battery liquid, wash it with plenty of water.
- If battery liquid comes into contact with your eyes, wash them with plenty of water and get immediate medical attention.

Before Reading These Instructions

Panasonic welcomes you to our constantly growing family of electronic products owners. We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

3

This is a guide book specific to system upgrading. Please refer to the operating instructions for basic operations, menu operations, specifications, etc.

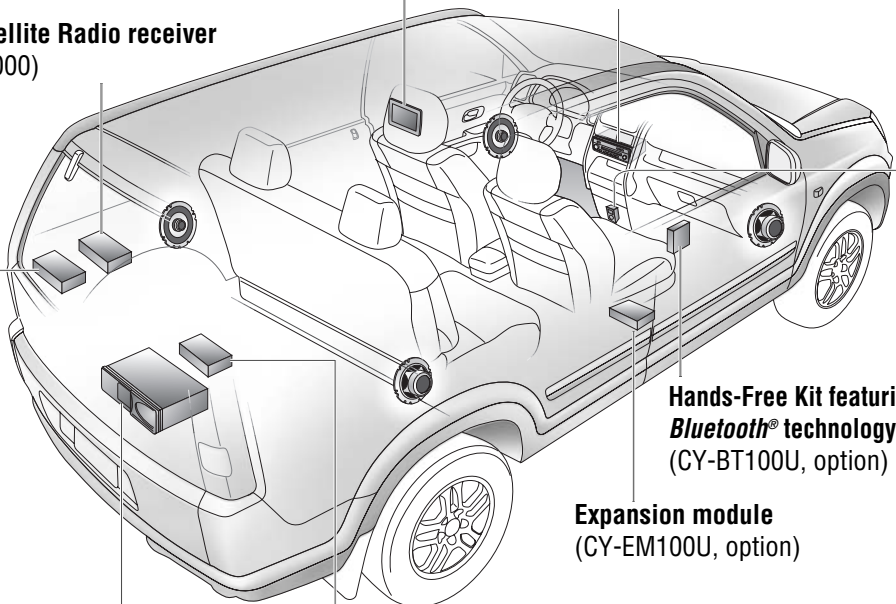
System upgrade sample

Sirius Satellite Radio receiver
(SIR-PAN1)

Headrest Monitor
(CY-V7100U, option)

Display Unit
CQ-VD7003U

XM Satellite Radio receiver
(XMD1000)



iPod®

Hands-Free Kit featuring
Bluetooth® technology
(CY-BT100U, option)

Expansion module
(CY-EM100U, option)

CD Changer
(CX-DP880, option)
DVD Changer
(CX-DH801U, option)

TV Tuner
(CY-TUN153U, option)

Connectable devices

■ DVD Changer

The optional adapter (Conversion Cable for DVD/CD Changer: CA-CC30U) allows you to connect the optional Panasonic DVD changer unit (CX-DH801U). For details, refer to the operating instructions for the DVD changer unit.

■ CD Changer

The optional adapter (Conversion Cable for DVD/CD Changer: CA-CC30U) allows you to connect the optional Panasonic CD changer unit (CX-DP880). For details, refer to the operating instructions for the CD changer unit.

■ TV tuner

You can connect the optional Panasonic TV tuner unit (CY-TUN153U). For details, refer to the operating instructions for the TV tuner unit.

■ iPod®

The optional adapter (Direct Cable for iPod: CA-DC300U) allows you to connect the optional iPod series.

The iPod equipped with a dock connector is exclusively connectable. Further information about the controllable iPod is described below.

Controllable iPod/software version

- 3rd generation iPod/ver. 2.3
- 4th generation iPod/ver. 3.1
- iPod Photo/ver. 1.2
- iPod mini/ver. 1.4
- iPod nano/ver. 1.0

* Operation check has been completed with software available at the end of October, 2005. We do not guarantee the operation with our future products or upgraded software.

iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

■ XM Satellite Radio

You can connect the optional XM receiver (XMD-1000) with optional Digital Adapter. For details, refer to the operating instructions for the XM receiver.

- Toll free number
XM Receiver P/N: XMD-1000
Call 1-800-XM-RADIO(96-72346)
Extension cord P/N:
Call 1-800-942-TERK(8375)
- Use the Panasonic-specific connecting cord (Digital Adapter). Please feel free to contact us at the above phone number or your dealer if you have any question.

About XM

The direct satellite-to-receiver broadcasting technology is used to provide listeners with crystal clear sound smoothly from coast to coast. XM is over 130 channels of sheer variety: digital-quality music, news, sports, comedy, traffic & weather, talk, children's programs, and more.

The XM name and related logos are trademarks of XM Satellite Radio Inc.

■ Sirius Satellite Radio

You can connect the optional Sirius Satellite radio receiver (SIR-PAN1).

Sirius Satellite Broadcast service

The Sirius Satellite coverage is only for the United States except Hawaii and Alaska. There is no Sirius Satellite coverage in Canada. The instruction of Satellite Operation Controls in the Operating Instructions and Guide will not be applied.

■ Hands-Free Phone System

You can connect the optional Hands-Free Phone System (Hands-Free Kit featuring *Bluetooth*® technology: CY-BT100U). For details, refer to the operating instructions for the Hands-Free Phone System.

Note: This unit is designed **only for receiving calls**. It cannot send calls.

Bluetooth®

The Bluetooth word mark and logo are owned by the Bluetooth SIG, Inc. and any use of such marks by Matsushita Electric Industrial Co., Ltd. is under license. Other trademarks and trade name are those of their respective owners.

■ Expansion Module (hub unit)

You can connect the optional Expansion Module (hub unit) (CY-EM100U). Connection of the Expansion Module allows you to simultaneously connect optional devices mentioned before as well as other AV devices. For details, refer to the operating instructions for the Expansion Module.

Connectable devices

- CD/DVD changer (max. 1)
- iPod (max. 2)
- XM Satellite Radio (max. 1)
- Sirius Satellite Radio (max. 1)
- Hands-Free Phone System (max. 1)
- TV tuner (max. 1)

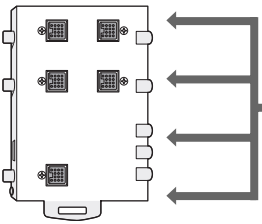
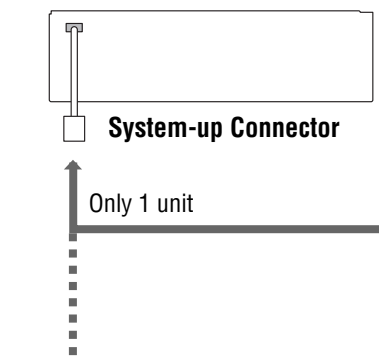
Note: Market conditions regarding optional devices vary with countries and regions. For further information, consult your dealer.

Before Reading These Instructions (continued)

System upgrade sample

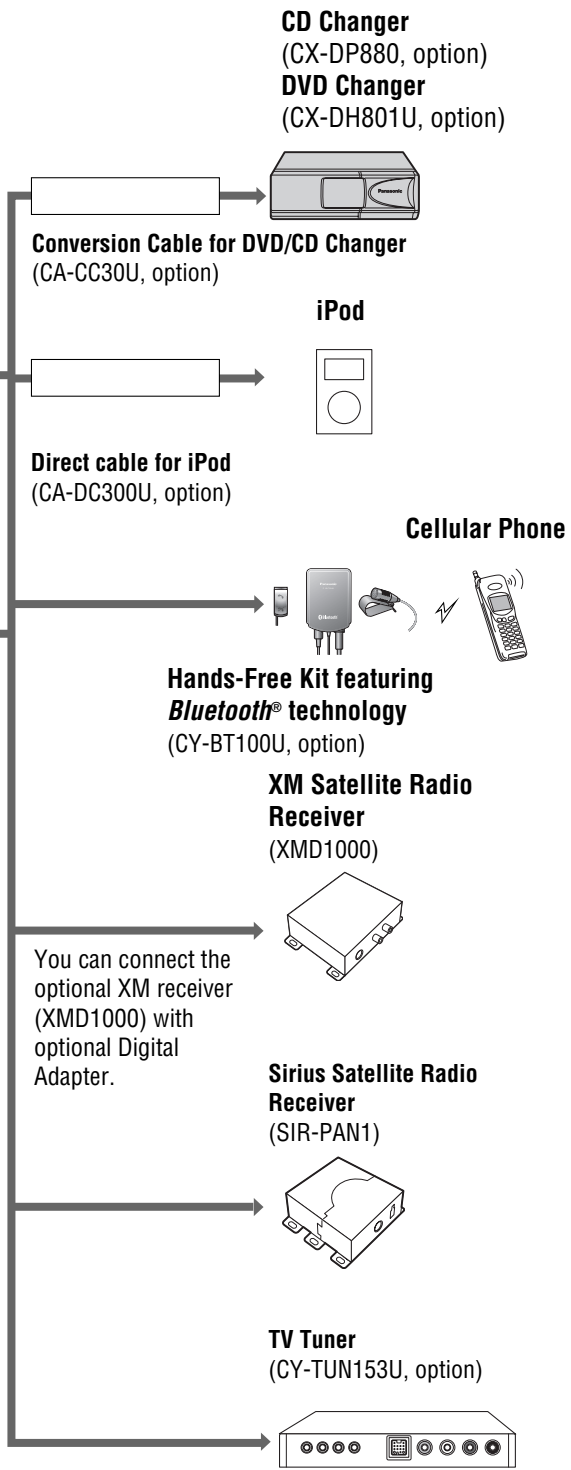
■ Simultaneous Multi-Device Connection

CQ-VD7003U



Note:

- Refer to individual instruction and installation manuals for each device for detailed installation and wiring.

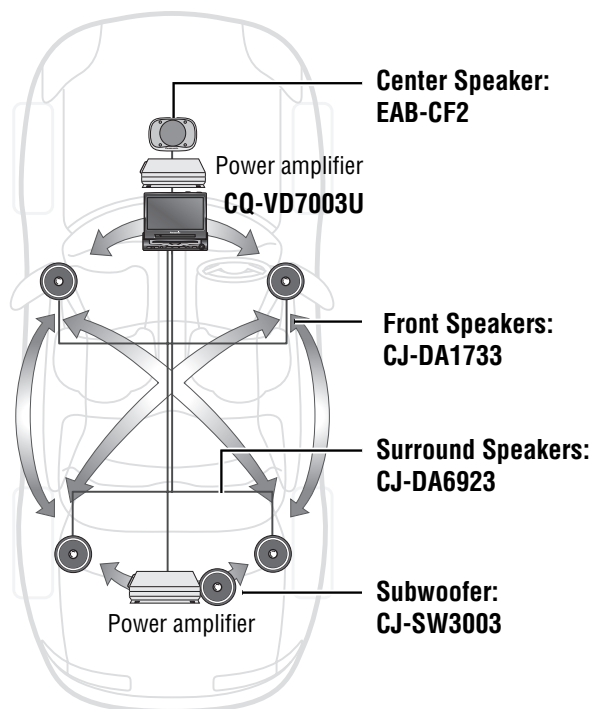


■ 5.1-channel Surround System

This unit has a built-in 4-channel amplifier. The procedure for setting up a 5.1-channel surround system in order to play DVD software in a way that creates a “you are there” feel in a car is described below.

Note:

- Even if you are using this unit without installing a center speaker, surround speakers, or a subwoofer, it is still necessary to make the speaker settings in order to adjust the sound balance.



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Touch Panel Operation Overview

Notes on the Touch Panel

Before operation

- Clean the surface of the touch panel. (⇒ Operating Instructions)

Operation

- Use only your fingers to operate the touch panel.
- Do not press the panel forcefully.
- Do not scratch the panel with fingernails or any hard objects.

- Do not use a pen or other sharp implements to operate the touch panel.
- Do not bump the front panel.
 - ⇒ Failure to observe the above may damage or break the glass on the surface of the touch panel.

The State of Operation Screen

Example: CD Changer mode

Note:

- The following picture is partly darkened for explanation.
- Displaying contents and their positions partly vary with each mode. Refer to the description of each mode for details.



Display Button
(⇒ next page)

Source Button
(Content varies with each source)

Menu Button

Displays the Source Selection Screen.

Displays the Menu Screen.

Source Selection Screen

Menu Screen



Source Selection Screen appears.
Touch desired source button.
Touch **END** to quit.

Menu Screen appears. Select desired setting.
Menu Setting, (⇒ Operating Instructions)

Press **[SRC]** to change to desired mode.

Press **[MENU]** to let Menu Screen appear.

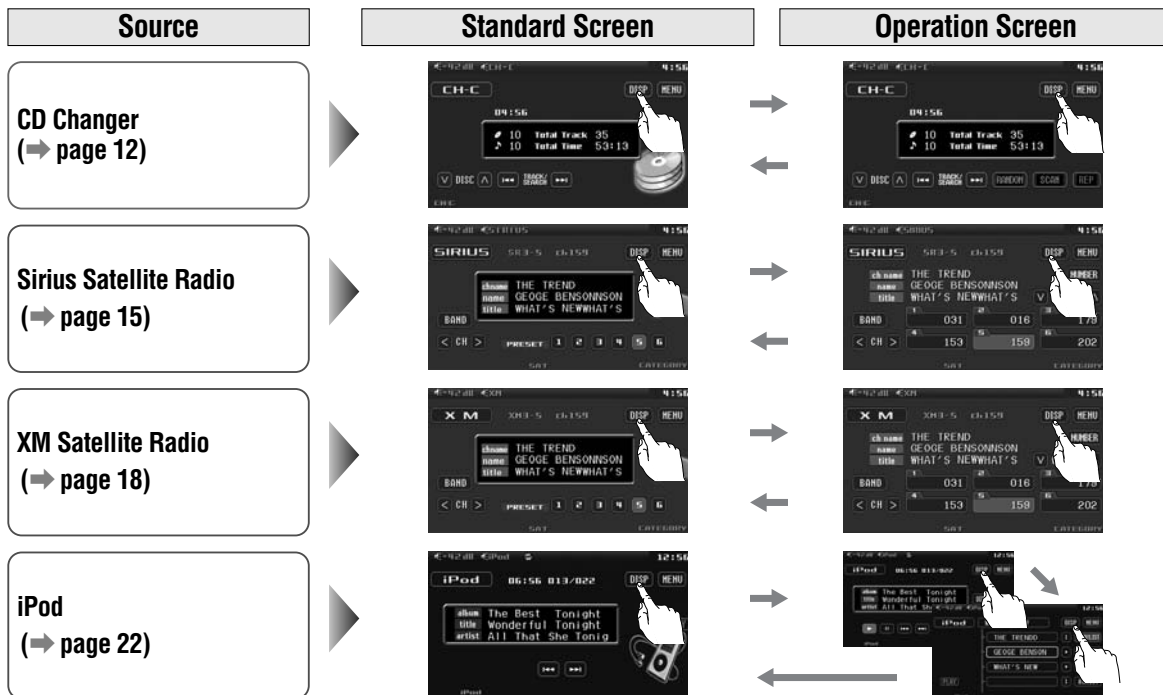
Note:

- When an **iPod**, **H-F**, **TV** or **CH-C** is connected to this unit without involving the Expansion Module (CY-EM100U, option), any of them appears at the AV2 position.
- When **AV2** is selected on the condition that the Expansion Module is connected to this unit, the video and audio of the source connected to AUDIO IN/VIDEO IN of the Expansion Module come out.

Switching the Display

Touching **DISP** allows users to switch between screens as follows.

□ How to Call up Operation Screen



□ How to Cancel OSD (On Screen Display)



*1 To switch Operation Screen ON, touch the center of touch panel.

*2 The operation screen is not available in the video mode.

Note:

- Refer to the description of each mode for how to operate the operation screen.

TV Tuner Control

Preparation:

- Connect a TV tuner (CY-TUN153U, option) to the unit.
- It is required to install the TV antenna to receive TV broadcasts.

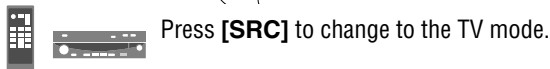
- For receiving TV broadcasts, stop your car where there is no obstacle to broadcast reception around.

TV Mode Selection

1 Touch "Source Button".



2 Touch **TV** (TV) on the Source Selection Screen. (Content varies with connected devices)

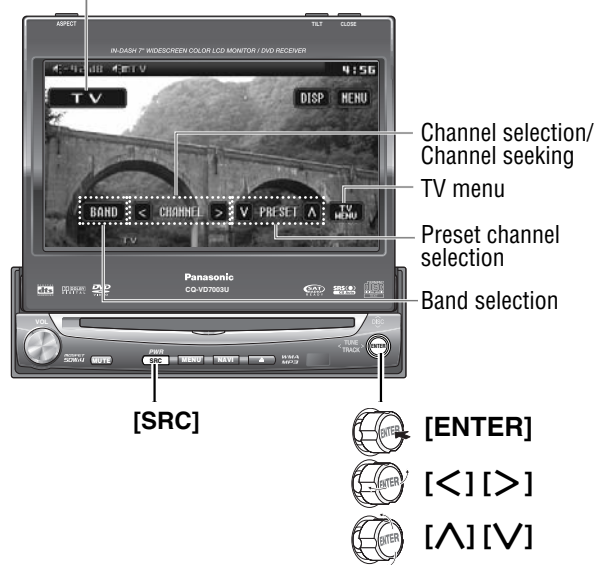


To switch Operation Screen ON, touch the center of touch panel.

Note:

- For the operations of the TV tuner with its remote control, aim the remote control at the remote control sensor of this unit.





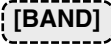





























Source Button




Tuning

Operations				
Band Selection	BAND	[BAND]	[ENTER]	
	TV 1 ↔ TV 2			
Channel Selection		[>] [<lt;]< td=""> <td>[>] [<lt;]< td=""> <td>Up Down</td> </lt;]<></td></lt;]<>	[>] [<lt;]< td=""> <td>Up Down</td> </lt;]<>	Up Down
Channel Seeking		[>] [<lt;]< td=""> <td>[>] [<lt;]< td=""> <td>Up Down</td> </lt;]<></td></lt;]<>	[>] [<lt;]< td=""> <td>Up Down</td> </lt;]<>	Up Down
Displaying TV Menu	TV MENU	-	-	Calls up the menu of the tuner. To cancel, touch again.
Selecting an Item on the TV Menu		[^] [v] [<lt;] [>]<="" td=""> <td>[^] [v] [<lt;] [>]<="" td=""> <td>Up/down Left/right</td> </lt;]></td></lt;]>	[^] [v] [<lt;] [>]<="" td=""> <td>Up/down Left/right</td> </lt;]>	Up/down Left/right

..... Touch/Press and hold

Preset Memory				
Operations				
Auto Preset Memory	12 channels with first to 12th highest in signal strength will be preset to each band.			
				Select a band.
	<ul style="list-style-type: none"> • Touch/press and hold for more than 2 seconds. • “-” appears if the number of receivable channels is less than 12. New channels overwrite existing saved channels.			
Writing Preset Memory	Select a band and a channel.			
Favorite preset channels can be written after you have set the preset channel once.				
				
	<ul style="list-style-type: none"> • Preset channel writing mode display appears. 			
				Select a channel that you want to exchange.
				Determine.
		-	-	<ul style="list-style-type: none"> • Exit from the preset writing.
Preset Channel Calling	 	 	 	Down Up
Deleting Preset Memory	Select a band and a channel.			
Favorite preset channels can be deleted after you have set the preset channel once.				
				
	<ul style="list-style-type: none"> • Preset channel deleting mode display appears. 			
				Select a preset number that you want to delete.
				Determine.
		-	-	<ul style="list-style-type: none"> • Exit from the preset channel deletion.

 Touch/Press and hold for more than 2 seconds

CD Changer Control



• CD changer functions are designed for optional Panasonic CD changer unit. (CX-DP880)

Preparation:
 • Connect the CD changer, and load a magazine (discs).

CD Changer Mode Selection

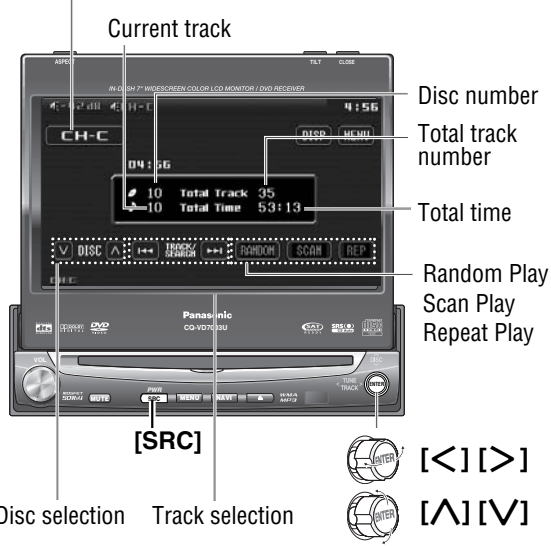
1 Touch "Source Button".



2 Touch **CH-C** (CH-C) on the Source Selection Screen. (Content varies with connected devices)

Press [SRC] to change to the CD Changer mode.

Source Button



Basic Operations

Operations				
Disc Selection		[^]	[^]	Next disc
		[v]	[v]	Previous disc
Track Selection			[>]	Next track
			[<]	Beginning of the current track
				Previous track (Touch/press twice.)
Fast Forward/ Fast Reverse				Fast forward
				Fast reverse
				Release to resume playback.
Repeat Play		-	-	To cancel, touch again.
Repeat Play within the current Disc		-	-	To cancel, touch and hold for more than 2 seconds again.
Scan Play		-	-	To cancel, touch again.
Disc Scan Play		-	-	The first 10 seconds of the all the discs is played. To cancel, touch and hold for more than 2 seconds again.
Random Play		-	-	To cancel, touch again.
Random Play within the Current Disc		-	-	To cancel, touch and hold for more than 2 seconds again.

..... Touch/Press and hold

* Touch panel symbols will change to indicate these current mode.
 , , {D= DISC (disc)}

DVD Changer Control

- DVD changer functions are designed for optional Panasonic DVD changer unit. (CX-DH801U)

Preparation:

- Connect the DVD changer, and load a magazine (discs).

DVD Changer Mode Selection

- 1 Touch "Source Button".



- 2 Touch **CH-C** (CH-C) on the Source Selection Screen. (Content varies with connected devices)

Press [SRC] to change to the DVD Changer mode.

To switch Operation Screen ON, touch the center of touch panel.

Note:

- Be sure to connect RCA cord (video)(yellow) of the Panasonic DVD Changer to AV2-IN and set [CH VIDEO INPUT] to [ON] (→ page 24). Otherwise the changer cannot be controlled through this unit.
- Refer to the operating instructions and installation instructions of CX-DH801U as well.

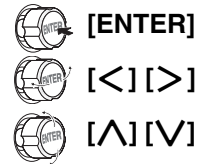
Source Button



[SRC]

Operation Buttons

Disc/folder selection



Basic Operations

Operations	Compatible Discs	Operations			
Track/file Selection				-	Next track/file
				-	Beginning of the current track/file Previous track/file (Touch/press twice.)
		Note: • When playing a DVD, there are cases where it is not possible to return to the start of a chapter that spans 2 titles. (→ Operating Instructions)			
Fast Forward/ Fast Reverse				-	Fast forward Release to resume playback.
				-	Fast reverse Release to resume playback.
		The speed changes if the button is held down as follows. Regular speed → 2 times → 5 times → 10 times → 30 times			
Folder Selection			-	-	Next folder
			-	-	Previous folder
Stop				-	To resume playback, touch/press / .
Pause				-	To resume playback, touch/press / .

..... Touch/Press and hold

DVD Changer Control (continued)



Basic Operations (continued)

Slow Playback					<ul style="list-style-type: none"> • Touch/press and hold in the pause mode. <p>Playback is at about 1/4 normal speed. To resume normal playback, touch/press / .</p>
		Note: <ul style="list-style-type: none"> • Reverse slow playback is not possible. 			
Disc Selection			<p>–</p>	<p>–</p>	<p>Next disc</p> <p>Previous disc</p>

..... Touch/Press and hold

Chapter/title/track Selection

Showing menu and selecting an item <div style="border: 1px solid black; padding: 5px;"> <p>* Note on VCD: For VCD, touch/press [RETURN] instead of [DVD MENU].</p> </div>		<p>–</p>	<p>[DVD MENU]</p> <p>↓</p> <p>[<] [>]</p> <p>[^] [v]</p> <p>↓</p> <p>[ENTER]</p> <p>[RETURN]</p>	<p>–</p> <p>[<] [>]</p> <p>[^] [v]</p> <p>↓</p> <p>[ENTER]</p> <p>–</p>	<p>❶ Menu appears.</p> <p>↓</p> <p>❷ Select the desired item.</p> <p>↓</p> <p>❸ Determine the setting.</p> <hr/> <p>Returns to the previous display.</p>
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Sirius Satellite Radio Control

What is SIRIUS Satellite Radio?

Over 120 channels of the best entertainment and completely commercial-free music for your car, home or office.

Only SIRIUS has more than 65 original music channels, from today's hits to R&B oldies to classical masterpieces. From authentic Country and real Bluegrass to cool Jazz, hot Latin, Reggae, Rock and many more. Best of all, it's all completely commercial-free.

SIRIUS also has more than 55 channels of world-class sports, news and entertainment. Included as part of your subscription, you get up to 16 NFL games a week, up to 40 NBA games a week and up to 40 NHL games a week. (Games are broadcasted during their respective seasons.)

Coupled with great sports news from ESPN, the SIRIUS sports offering is unrivaled. And don't forget a host of other great news and entertainment, like NPR, CNBC, Fox News, Radio Disney and E!Entertainment Radio.

With SIRIUS, the emphasis is on the music and entertainment you want. The music is hosted by SIRIUS Jockeys, who are true experts. They back-up the music with compelling information about the song being played, and they understand that sometimes it's best to just let the music speak for itself.

Rely on SIRIUS rocket science for superior coverage.

Only SIRIUS has **three** powerful satellites that fly directly over the U.S. ensuring coast-to-coast coverage with high elevation angles. This gives the satellites a "clear line of sight" to your car or home, with much less concern for buildings, trees or other objects that might block conventional satellite signals.

Once you experience more than 120 channels of digital entertainment, you'll never want to leave your car. For more information, visit www.sirius.com.

Getting Started

It is required to sign up to become a Sirius Satellite Radio subscriber. After checking your Sirius Satellite Radio ID, sign up on the Sirius's website or by calling them.

- Phone number: 1-888-539-SIRIUS (7474)

① Check of Sirius Satellite Radio ID

- To show the ID on the display, To show the ID on the display, tune your Sirius Radio to channel 0. (Refer to "Channel Selection" on next page.)



Sirius Satellite Radio ID

② Activate the Sirius Satellite Radio. Select either of the below to sign up.

- Web site: <http://home.sirius.com/webCUWI>

Sirius Satellite Radio Control (continued)

Preparation:

- Connect the optional Sirius Satellite Radio receiver (SIR-PAN1).

Note:

- Refer to “Settings” for how to lock specified channels (Parental Channel Lock). (⇒ page 26)

Sirius Satellite Radio Mode Selection

1 Touch “Source Button”.

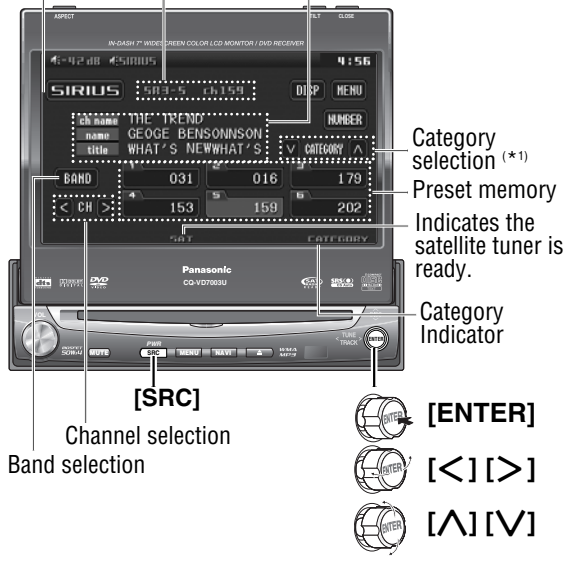


2 Touch **[SIRIUS]** on the Source Selection Screen.
(Content varies with connected devices)

Press **[SRC]** to change to the Sirius Satellite Radio mode.

To switch Operation Screen ON, touch **[DISP]**.



Source Button Channel Channel information (text display)



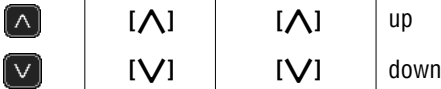
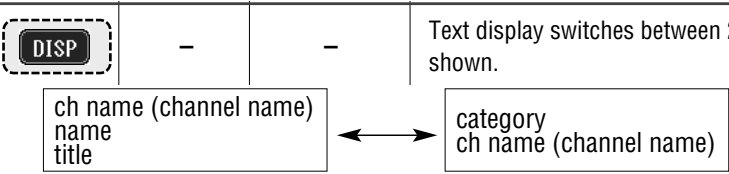
Tuning

Operations				
Band Selection	[BAND]	[BAND]	[ENTER]	
	SR 1 → SR 2 → SR 3			
Category Selection Display*1	[BAND]	[BAND]	[ENTER]	Toggles category ON/OFF. Setup is the same as from MENU. (⇒ page 26)
Channel Selection	[>] [<]	[>] [<]	[>] [<]	up down
Direct Channel Selection	[NUMBER] ↓ 0 to 9 ↓ [ENTER]	-	-	Note: • The direct channel selection is canceled under the following circumstances. • A nonexistent channel is selected. • [NUMBER] is pressed and no operation is performed for 8 seconds. • For retrying selection during number entry, touch/press [RET] / [RETURN] .

Preset Memory

<p>Preset Memory</p> <p>Up to 6 channels are saved in the preset memory.</p>	<p>Select a band and channel.</p>  <p>to</p> <p>— —</p> <ul style="list-style-type: none"> • Touch/press and hold for more than 2 seconds. 	<p>The channel blinks once, and a receiving station is saved in the memory.</p>
<p>Preset Channel Calling</p>	<p>Select a band.</p>  <p>to</p> <p>— —</p> <ul style="list-style-type: none"> • Touch/press desired preset button. 	<p>Note:</p> <ul style="list-style-type: none"> • Because preset memory setting is performed with service IDs in each channel, a channel may switch to another that has been stored under the same service ID when calling up a preset channel. However, broadcasting contents are the same as what the stored channel provides.

Useful Function

<p>Category Selection</p>	<p>Show the category selection button first. *1</p>  <p>Touch/press once to display the category name, then touch/press again. Seeking will start.</p>
<p>Switching the Text Display</p>	 <p>Text display switches between 2 types as shown.</p>

 Touch/Press and hold

XM Satellite Radio Control



Preparation:

- Connect the optional XM Satellite Radio (XMD1000) with optional Digital Adapter.

XM Satellite Radio Mode Selection

① Touch "Source Button".

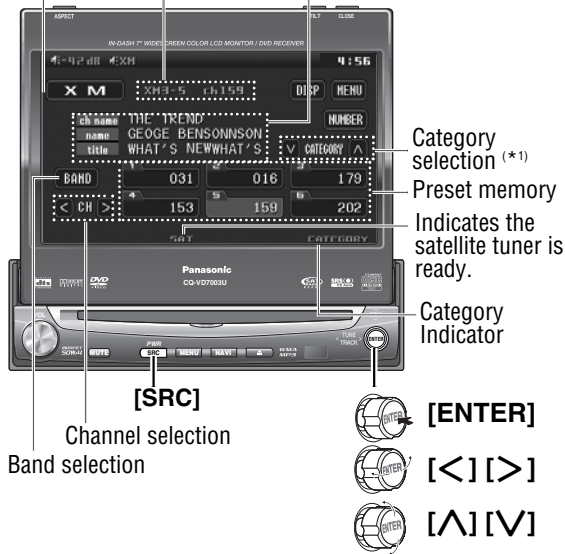


② Touch **XM** on the Source Selection Screen.
(Content varies with connected devices)

Press **[SRC]** to change to the XM Satellite Radio mode.

To switch Operation Screen ON, touch **[DISP]**.

Source Button Channel Channel information (text display)



XM Satellite Radio

You can connect the optional XM receiver (XMD1000) with optional Digital Adapter. For details, refer to the operating instructions for the XM receiver.

- Toll free number
XM Tuner P/N: XMD1000
Call 1-800-XM-RADIO(96-72346)
Extension cord P/N:
Call 1-800-942-TERK(8375)

About XM

The direct satellite-to-receiver broadcasting technology is used to provide listeners with crystal clear sound smoothly from coast to coast. XM is over 130 channels of sheer variety: digital-quality music, news, sports, comedy, traffic & weather, talk, children's programs, and more.

The XM name and related logos are trademarks of XM Satellite Radio Inc.

Getting Started





It is required to sign up to become an XM Satellite Radio subscriber. After checking your XM Satellite Radio ID, sign up on the XM's website or by calling them.


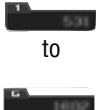
- ① Check of XM Satellite Radio ID
 - Write down the ID indicated on the lower right of your XM Satellite Radio (XMD1000).
 - Check the ID shown by tuning your XM Radio to channel 0.

- ② Activate the XM Satellite Radio. Select either of the below to sign up.
 - Web site: <http://www.xmradio.com/activation>
 - Phone number: 1-800-852-9696



XM Satellite Radio ID

Tuning				
Operations				
Band Selection	BAND XM 1 → XM 2 → XM 3 ↑	[BAND]	[ENTER]	*The displayed contents on the touch panel vary with circumstances.
Channel Selection	> <	[>] [<]	[>] [<]	up down
Category Selection Display *1	BAND	[BAND]	[ENTER]	Toggles category ON/OFF. Setup is the same as from MENU. (⇒ page 26)
Direct Channel Selection 	NUMBER ↓ 0 to 9 ↓ ENTER	-	-	Note: <ul style="list-style-type: none">• The direct channel selection is canceled under following circumstances.<ul style="list-style-type: none">• A nonexistent channel is selected.• NUMBER is pressed and no operation is performed for 8 seconds.• For retrying selection during number entry, touch/press RET/[RETURN].

Preset Memory				
Preset Memory Up to 6 channels are saved in the preset memory.	Select a band and channel.  to	-	-	The channel blinks once, and a receiving station is saved in the memory. <ul style="list-style-type: none">• Touch and hold for more than 2 seconds.
Preset Channel Calling	Select a band.  to	-	-	Note: <ul style="list-style-type: none">• Because preset memory setting is performed with service IDs in each channel, a channel may switch to another that has been stored under the same service ID when calling up a preset channel. However, broadcasting contents are the same as what the stored channel provides.

Useful Function				
Category Selection	Show the category selection button first. *1 ^ v	[^] [v]	[^] [v]	up down Touch/press once to display the category name, then touch/press again. Seeking will start.
Switching the Text Display	DISP ch name (channel name) name title	-	-	Text display switches between 2 types as shown. category ch name (channel name)

 Touch/Press and hold

Bluetooth Hands-Free Kit



Preparation:

- Connect the Bluetooth hands-free kit (CY-BT100U) and establish the pairing. Refer to the instruction manual for the Bluetooth hands-free kit for further information.

Connection of the optional Bluetooth hands-free kit allows users to talk on a handsfree cellular phone in a car.

Note:

- CY-BT100U is **designed only for receiving calls**. It cannot send calls.

Bluetooth Hands-Free Mode

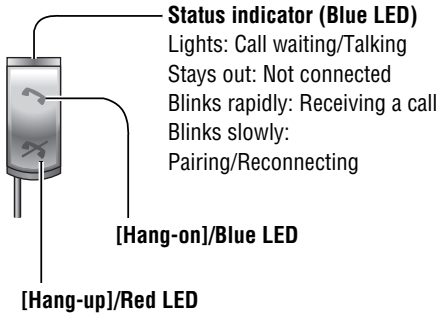
This mode is not selectable by pressing [SRC] or touching an item on the panel, but activated by receiving an incoming call. (To pick up the phone, press [Hang-on] on the hands-free kit.)

Note:

- The telephone number of the calling party is displayed.
- "CONNECT" is displayed when information of the calling party cannot be acquired.
- We shall not guarantee all the functions of the Bluetooth-ready mobile phone to be connected.



Switch unit














Example: DVD mode



When receiving a call...



Useful Function

Operations				
Adjustment of Ring Volume When the ringtone is the same as that of the cellular phone,	-	[-]	 [VOL]	down
When the ringtone is not the same as that of the cellular phone (but this unit-specific sound), 		[-] or [<]	 [VOL]	mute
Adjustment of phone receiver volume	-	[-]	 [VOL]	down
Back to Previous Source	-	-	-	<ul style="list-style-type: none"> • Press [Hang-Up] on the hands-free kit. • When [Hang-up] on the hands-free kit is pressed to hang up the phone, the previous mode resumes.
When the ringtone is not the same as that of the cellular phone (but this unit-specific sound), 		[+] or [>]	 [VOL]	up

Note:

- Reception of a call during the camera or navigation system is activated does not call up the Hands Free screen but displays only the telephone number of the calling party. Pressing **[Hang-on]** deletes the telephone number from the screen. **CALL** does not appear.
- Reception of a call at MUTE-on temporarily cancels the mute function and disables operations. After end of phone communication, the mute function resumes.
- Source change and **AUDIO**-related operations in the menu are not feasible during reception of a call. But volume is adjustable and the power can be turned off even during reception of a call.
- Reception of a call at power-off does not turn on the power of this unit.

iPod Control



Preparation:
 • Connect the iPod through connecting cable (CA-DC300U, option).

iPod Mode Selection

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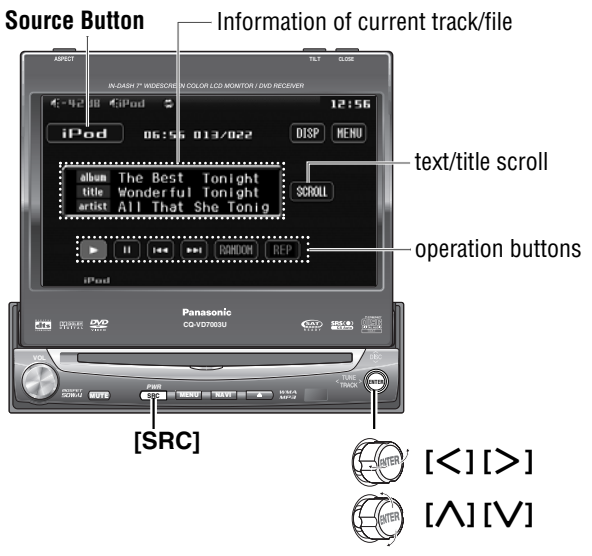
1 Touch "Source Button".



2 Touch (iPod) on the Source Selection Screen.
 (Content varies with connected devices)

Press [SRC] to change to the iPod mode.

To switch Operation Screen ON, touch .



Note:

- "NO iPod" appears until the iPod is recognized after connecting the iPod, turning on the power of the main unit, or performing source selection on the main unit side. This indicates there is nothing wrong with the main unit.
- We shall not guarantee all the functions of the iPod to be connected.
- The iPod equipped with a dock connector is exclusively connectable.

Controllable iPod/software version




- 3rd generation iPod/ver. 2.3
 - 4th generation iPod/ver. 3.1
 - iPod Photo/ver. 1.2
 - iPod mini/ver. 1.4
 - iPod nano/ver. 1.0
- * Operation check has been completed with software available at the end of October, 2005. We do not guarantee the operation with our future products or upgraded software.

Basic Operations

Operations				
Track/file Selection				Next track/file
				Beginning of the current track/file Previous track/file (Touch/press twice.)
Fast Forward/ Fast Reverse				Fast forward Release to resume playback.
				Fast reverse Release to resume playback.
Title Scroll		-	-	Scrolls the title once
Pause			-	To resume playback, touch/press again or touch/press /

..... Touch/Press and hold

Useful Function

Shuffle Songs	 *	-	-	To cancel, touch again.
Shuffle Albums	 *	-	-	To cancel, touch and hold again.
Repeat Play		-	-	To cancel, touch again.

Note:



- The shuffle function of iPod corresponds to the RANDOM function of this unit.

Note:

- The All Repeat Play function of iPod is always activated and cannot be canceled from this unit.

 Touch/Press and hold

* Touch panel symbols will change to indicate these current mode.

 {A= ALBUM (album),  {S= SONG (song)}

Touching  allows users to switch between screens as follows.

Standard Screen



File indicator
A number up to 999 is displayable.

Current state

File up/down

Operation Screen



File indicator
A number up to 999 is displayable.

Title scroll

Play/pause

Play setting


File up/down


Folder List/File List Screen




Back to 1-upper directory

Playback category selection button

 Playback by playlist (default)

 Playback by album

 Playback by song

 Playback by artist

Folder list/file list

Settings

This is a guide book specific to system upgrading. Please refer to the operating instructions for basic operations, menu operations, specifications, etc.

- USER
- SCREEN
- AUDIO
- DVD
- INPUT/OUTPUT
- RADIO

NAVI SETUP (Navigation set up)

Navigation Setting

NAVI SP (Navigation Speaker)

: Front Left/Right speaker

: Front Left only

: Front Right only

default:

NAVI MUTE (Navigation mute level)

Preparation: Connect the navi mute lead.

: unchanged

: - 20 dB

: - 30 dB

: no sound

default:

Note:

- You can set the navigation mute level when is selected on .

NAVI VOLUME (Navigation Volume)

Volume adjustment of the car navigation system.

: down, : up

Setting range: 0 to 40
default: 20

Connection with Panasonic car navigation system

 : This book refers to connections to the Panasonic car navigation system that will come onto the market in the future. Descriptions regarding the car navigation system are boxed with a dotted line.

CAMERA SETUP

Rear View Camera set up

CAMERA (Rear view camera set up)

Selection of the terminal that connects to the rear view camera.

Preparation: Connect the reverse lead. (→ Installation Instructions)

: unconnected

: connected to the CAMERA-IN

default:

Note:

- Make sure to select when no rear view camera is connected.

SCALE (Rear view camera scale)

Images through the rear view camera can be shown in scale display mode.

: scale display off

: scale display on

default:

SCALE ADJUST (Scale adjustment)

or : adjust

INPUT SELECT

Input selection

NAVI INPUT (Navigation Input)

: connected to the RGB input cord, or a car navigation system not connected

: connected to the AV1-IN

default:

CH VIDEO INPUT (Video input for DVD Changer)

: unconnected

: connected to the AV2-IN

default:

Note:

- The audio output should be connected to the AV2-IN.

OUTPUT SELECT

Output Selection

REAR MONITOR (Rear Monitor Set up)

You can have different picture and sound on the front and rear monitors at the same time.

Preparation: Connect another optional rear monitor. (e.g. CY-VHD9401U) (⇒ Installation Instruction)

□ When the Expansion Module (CY-EM100U, option) is disconnected:



AUTO : same as front monitor

DVD : DVD/VCD/CD/MP3/WMA

AV1 : AV1

AV2 : AV2

default: **AUTO**

Note:

- This menu can also be opened by touching/pressing and holding **MENU** / **[MENU]**.
- Images are not displayed on the rear monitor in the DVD changer mode even if **AUTO** is selected.

□ When the Expansion Module (CY-EM100U, option) is connected:



- Connection of the Expansion Module (CY-EM100U, option) provides two additional source buttons.
- Connection of audio-only source such as SIRIUS satellite radio, iPod, and XM satellite radio to the Expansion Module (CY-EM100U, option) provides no additional button.

Note:



- The screen above shows the case that no device is connected to the Expansion Module. In such a case, the additional buttons are displayed gray and not selectable.
- Only single source of audio and video can come out through the Expansion Module (CY-EM100U, option). Therefore, if the audio and video from the changer are played on the front monitor, the audio and video from the TV cannot be played on the rear monitor at the same time.

Example:

When a DVD changer and a TV are connected to the Expansion Module (CY-EM100U, option),



- **TV** is selectable. However, the setting is not feasible because the changer is in operation on the front monitor.
- To play the TV on the rear monitor, select **TV** for the front monitor, or select a source other than the Expansion Module.

BACKGROUND CAMERA (Always display background camera on the display)

This function allows the background camera view to be displayed at the all times.

OFF : each mode image is on the display.

ON : background camera view is always on the display

default: **OFF**

Settings (continued)

(INPUT/OUTPUT continued)

H-F SETUP (Hands-free Set Up)

Hands-free Set Up

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H-F SP (Hands-free speaker)

Preparation: Connect Bluetooth hands-free kit (CY-BT100U). (⇒ Installation Instructions)

- : Front Left/Right speaker
- : Front Left only
- : Front Right only

default:

-
-
-
-
-
-

FM SETUP

(⇒ Operation Instructions)

AM SETUP

(⇒ Operation Instructions)

XM SETUP

Setting of XM Radio

Preparation: Connect XM Radio receiver. (⇒ Installation Instructions)

CATEGORY (Category setting)

- : enables category switching
- : disables category switching

default:

Note:

- Channel selection while is set is performed within the same category. (⇒ page 17)

SIRIUS SETUP

Setting of Sirius Satellite Radio

Preparation: Connect Sirius Satellite Radio Receiver. (⇒ Installation Instructions)

SIRIUS ID (Sirius ID)

12-digit ID number always appears.



CATEGORY (Category setting)

- : Changes the channel regardless of the category.
- : Changes the channel within the selected category.

default:

Note:

- Channel selection while is set is performed within the same category. (⇒ page 17)

PASS-CODE (Pass-code Setting)**SETUP** : Proceed the setting.**0** to **9** 4 digits numeric codedefault: **0000****How to change your pass-code**

- ① Enter the preset (old) 4 digit pass-code. If the wrong pass-code is entered, a new pass-code cannot be registered.
- ② Enter a new 4 digit pass-code.
- ③ Enter the new 4 digit pass-code again.

PARENTAL LOCK (Channel lock setting)**SETUP** : Proceed with the setting.

- ① Input the passcode.

0 to **9** 4 digits numeric code

Pass-code entry is required.

- ② Set each item.

PARENTAL LOCK (Channel lock setting)**OFF** : disables the parental lock.**ON** : enables the parental lock.default: **OFF****LOCK CHANNEL** (Channel lock activation)**SET** : Proceed the setting. Enter the channel number to be locked.**0** to **9** channel number

- ① Enter the channel number to be locked.
- ② Touch **ENTER** to confirm.

- Touch/press **RET**/**[RETURN]** to re-enter the number.

**UNLOCK CHANNEL** (Channel lock cancellation)**SET** : Proceed with the setting. Enter the channel number to be unlocked.**0** to **9** channel number

- ① Enter the channel number to be unlocked.
 - ② Touch **ENTER** to confirm.
- Touch/press **RET**/**[RETURN]** to re-enter the number.

Troubleshooting



❑ If You Suspect Something Wrong

Check and take steps as described below.

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If the described suggestions do not solve the problem, it is recommended to take the unit to your nearest authorized Panasonic Servicenter. The product should be serviced only by qualified personnel. Please refer checking and repair to professionals. Panasonic shall not be liable for any accidents arising out of neglect of checking the unit or your own repair after your checking. **Never take measures especially those other than indicated by *italic* letters in "Possible Solution" described below because those are too dangerous for users to handle themselves.**

⚠ Warning

- Do not use the unit in an irregular condition, for example, without sound, or with smoke or a foul smell, which can cause ignition or electric shock. Immediately stop using the unit and consult your dealer.
- Never try to repair the unit by yourself because it is dangerous to do so.

■ XM Satellite Radio Control

Problem	Possible cause → Possible solution
Channel unselectable	No contract with XM Satellite Radio Inc.. → <i>Refer to page 18 of this book and the XM's website to sign up for XM Radio service.</i>

■ Car Navigation, VCR, Camcorder, Rear View Camera, Rear Monitor

The picture from a car navigation system is not displayed.	The connection of a car navigation system is not correct. → Connect it correctly.
	Input setting of a car navigation system is not correct. → Correct the input setting.
The picture from a VCR or a camcorder is not displayed.	A VCR or Camcorder is not connected correctly. → Connect a VCR or Camcorder correctly.
The picture from a rear view camera is not displayed.	Rear view camera is not connected correctly. → Connect a rear view camera correctly.
	Input setting of camera is not correct. → Correct the input setting.
The picture or the sound of the rear monitor is not switchable.	<input type="checkbox"/> AUTO is not selected as the rear monitor setting. → Select <input type="checkbox"/> AUTO for the setting.

❑ Error Display Messages

■ CD Changer/DVD Changer Control

Display	Possible cause → Possible solution
NON PLAYABLE DISC	<p>Disc is dirty, or is upside down. → Check disc.</p> <p>Disc has scratches. → Check disc.</p>
MECHANISM ERROR	<p>No operation by some cause. → Press [▲]. If failure persists, press the reset switch. (Press the reset switch in the CD changer). If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Servicer.</p>
FILE ERROR	<p>The type of the file that is selected is not supported. → Check disc.</p>
PROTECTED	<p>A WMA file can be copyrighted. → The file protected by copyright is not playable.</p>
NO DISC	<p>No disc is in the player. → Insert disc into the disc slot.</p>
NO MAGAZINE	<p>No magazine is in the changer. → Load the changer with CD-loaded magazine.</p>
REGION ERROR	<p>An attempt was made to play a disc with a region number other than "1" or "ALL". → Press [▲] and check the disc.</p>

Note:

- There may be cases when the disc numbers affected by an error are displayed before "NON PLAYABLE DISC".
- Displays and the steps to be taken for errors vary in part from changer to changer. For details, refer to the Operating Instructions for the changer used.

■ XM Satellite Radio Control

NO XM	<p>Cannot receive XM Satellite Radio. → Verify the wiring.</p>
ANTENNA	<p>XM antenna unconnected. → Connect the XM antenna.</p>
NO SIGNAL	<p>XM broadcasts unreceivable because of poor receiving conditions. → Move to an area where XM broadcasts can be received well.</p>
OFF AIR	<p>Channel not in service. → This channel is not currently in service. Tune to another channel.</p>

Troubleshooting (continued)

■ Sirius Satellite Radio Control

NO SIRIUS	<p>Cannot receive Sirius Satellite Radio. ➔ Verify the wiring.</p>
ANTENNA ERROR	<p>Sirius antenna unconnected. ➔ Connect the Sirius antenna.</p>
CALL 888-539-SIRI	<p>User's registration has not been carried out. ➔ Complete user's registration.</p> <p>A channel that is not included in the agreement was selected. ➔ Select a channel that is included in the agreement. Refer to the operating instructions for Sirius receiver with regard to the agreement.</p>
SUB UPDATED	<p>The subscription information was updated. ➔ Wait for 3 minutes in the Sirius mode.</p> <p>Your location is out of receivable areas (e.g. in a tunnel), or the unit is decoding a selected broadcast. The display appears also while the connections are being checked after the power has been turned on. ➔ Wait until getting out of the unreceivable area or completing the decoding.</p>

■ iPod Control

NO iPod	<p>The iPod cable was disconnected in the iPod mode. ➔ Reconnect the iPod cable.</p>
NO SONGS	<p>Your iPod has no playable music. ➔ Download playable music to your iPod.</p>

