

Panasonic®

**In-dash 7.0 Wide Color LCD Monitor with Receiver
and Changer Control**

**Moniteur à cristaux liquides couleur de 7,0 pouces
de large et récepteur intégré en tableau de bord**

**Monitor ancho de LCD en color de 7,0 con receptor y
control de cambiador de discos para el tablero de instrumentos**

CQ-VA707WEUC

**Operating Instructions
Manuel d'utilisation
Manual de instrucciones**



Please read these instructions completely before operating this unit and save for future reference.

Il est recommandé de lire attentivement ce manuel avant d'utiliser l'appareil et le conserver pour référence ultérieure.

Lea todas estas instrucciones antes de poner en funcionamiento el aparato y guárdelas para poderlas consultar en el futuro.

Panasonic welcomes you to our ever growing family of electronic product owners. We know that this product will bring you many hours of enjoyment. Our reputation is built on precise electronic and mechanical engineering, manufactured with carefully selected components and assembled by people who take pride in their work. Once you discover the quality, reliability, and value we have built into this product, you too will be proud to be a member of our family.

□ Features

- **7-inch wide LCD color display**

Delivers images of high quality and superb color reproduction.

- **Fully powered display positioning mechanism (except for lateral angle)**

Positioning of the display unit is fully power driven. This includes extending the unit, raising it to upright position, adjusting its vertical (tilt) angle and moving it to the front and rear.

The lateral angle to the right and left can be adjusted manually.

- **Equipped with Auto Dimmer**

Automatically adjusts the image brightness according to the ambient light intensity.

- **CD Changer control function**

Allows system expansion by adding an optional CD Changer (CX-DP801EUC, etc.).

- **ID code setup**

4-digit ID code for increased security

- **The speaker for car navigation system is built-in the display unit (in future use).**

We designed a small speaker built-in the display unit.

This speaker is used only for Panasonic navigation system (in future use).

Find the model number and serial number on either the back or bottom of the unit. Please record them in the space below and retain this booklet as a permanent record of your purchase to aid in identification in case of theft.

MODEL-NUMBER **CQ-VA707WEUC** SERIAL NUMBER _____

DATE PURCHASED _____ FROM _____

☐ Use This Product Safely

WARNING:

TO AVOID RISK OF SERIOUS INJURY OR POSSIBLE VIOLATION OF LAWS, NOT FOR USE WHERE VISIBLE TO DRIVER FOR ANY PURPOSE OTHER THAN NAVIGATION OR USE WITH REAR VIEW CAMERA.

When Driving

- The driver must not operate the color LCD monitor. Operating the color LCD monitor may lead to carelessness and cause an accident. Stop your vehicle in a safe location when operating the unit.
- The driver must not watch videos while driving. It may lead to carelessness and cause an accident.
- Keep the unit at an appropriate sound level. Driving with the sound at a level that prevents you from hearing sounds outside and around the vehicle may cause an accident.

Caution:

When Car Washing

Do not expose the product 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 vehicle. Give the interior a chance to cool down before switching the unit on.
- Do not watch the monitor with the engine off. It will consume battery power and may prevent the engine from starting.

Use the Correct Power Supply

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

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

- Install the monitor in a position that does not obstruct the driver's vision.
- Do not install the control unit in the following type of location:
A location which is exposed to water, a location which is stepped on, or a location which is exposed to hot air such as near a heater duct.
- Do not install the unit in an area where it would obstruct the operation of an air bag.
- Ask a trained technician to install the unit. Installation and wiring require training and experience.
To be safe, ask the sales outlet where you purchased the unit to perform the installation.

When Operating

- Do not let the unit fall or be strongly impacted since this may cause a malfunction or fire.

La société **Panasonic** est heureuse de vous accueillir parmi le nombre grandissant des utilisateurs de ses appareils électroniques. Nous sommes convaincus que cet appareil vous procurera de longues heures d'agrément. Notre réputation est basée sur une ingénierie électronique et mécanique de haute précision laquelle préside à la fabrication d'appareils ne comportant que des composants soigneusement sélectionnés et assemblés par un personnel soucieux de la bonne réputation acquise par la qualité de son travail. Dès que vous découvrirez la qualité, la fiabilité et la valeur que nous avons intégrées dans cet appareil, vous aussi vous serez fier de faire partie des utilisateurs de nos produits.

❑ Caractéristiques dominantes

- **Moniteur à cristaux liquides couleur de 7 pouces de large**
Produit des images de haute qualité dont la reproduction des couleurs est superbe.
- **Mécanisme de positionnement de moniteur entièrement motorisé (sauf pour l'orientation latérale)**
Le positionnement du moniteur vidéo est entièrement motorisé. Ceci couvre les opérations d'extension du moniteur, son redressement en position droite, son réglage dans le plan vertical (inclinaison) et son avancée et recul.
L'angle de réglage panoramique gauche – droit s'ajuste à la main.
- **Équipé d'un dispositif de réglage automatique de luminosité**
Ajuste automatiquement la luminosité des images par rapport à la luminosité ambiante.
- **Fonction de commande de changeur de disque CD**
Autorise une expansion du système en rajoutant un changeur de disque CD optionnel (CX-DP801EUC, etc.).
- **Configuration de code d'identification**
La saisie d'un code d'identification à 4 chiffres permet d'accroître la sécurité du système
- **Haut-parleur incorporé au moniteur vidéo dans l'appareil pour une utilisation avec un système de radionavigation de véhicule (pour une utilisation ultérieure)**
Nous avons conçu et intégré un haut-parleur miniature dans le moniteur vidéo. Ce haut-parleur est exclusivement utilisé avec le système de radionavigation Panasonic (pour une utilisation ultérieure)

Il est recommandé de noter, dans l'espace prévu ci-dessous, les numéros de modèle et de série inscrits soit à l'arrière soit sous le fond de l'appareil, et de conserver ce manuel comme mémorandum de l'achat afin de permettre l'identification de l'appareil en cas de vol.

Numéro de modèle: **CQ-VA707WEUC** Numéro de série: _____

Date de l'achat: _____ Vendeur: _____

☐ Utiliser ce produit en respectant la sécurité

Avertissement:

Pour éviter tout risque de blessures graves et toute infraction au code juridique, l'appareil ne doit pas être utilisé à un endroit où le conducteur puisse le voir autrement que pour la navigation, ni avec une caméra de rétrovision.

Au volant

- Le conducteur ne doit jamais faire fonctionner ce moniteur lorsqu'il conduit son véhicule. Le fait d'utiliser le moniteur lorsqu'on est au volant réduit considérablement la vigilance du conducteur et multiplie les risques d'accident. Arrêter le véhicule dans un endroit sûr pour manipuler le moniteur.
- Le conducteur n'est pas autorisé à regarder une bande vidéo en conduisant, car ceci peut entraîner une perte de vigilance et causer un accident.
- Maintenir le moniteur à un niveau sonore approprié afin de ne pas masquer les sons ambiants et éviter ainsi tout risque d'accident.

Précaution:

Lavage de la voiture

Afin de prévenir tout risque de court-circuit ou d'incendie, ne pas exposer l'équipement à l'eau ni à une humidité excessive.

Voiture stationnée

- L'habitacle d'une voiture immobile exposée au soleil toutes vitres fermées devient rapidement très chaud. Laisser rafraîchir l'intérieur du véhicule avant d'utiliser l'appareil.
- Ne pas regarder le moniteur lorsque le moteur est arrêté. Le fait de regarder le moniteur avec le contact moteur coupé consomme beaucoup de batterie ce qui pourrait empêcher le moteur de repartir.

Source d'alimentation

- Cet appareil est conçu pour fonctionner sur un système d'alimentation avec batterie de 12 V et négatif à la masse. (Le système normal correspond à une voiture utilisée en Amérique du Nord.)

Réparation

- Ne pas tenter de démonter ou d'ajuster l'appareil soi-même. Confier toute réparation à un centre de service agréé.

Installation

- Installer le moniteur de manière à ce qu'il ne gêne pas la visibilité.
- Éviter absolument d'installer l'unité de commande aux emplacements suivants:
Là où il serait exposé à l'eau, où il risque d'être piétiné, où il est exposé aux souffles d'air chaud de la chaufferette.
- Ne pas installer le moniteur à un emplacement qui gênerait le déploiement du sac gonflable.
- Demander à un technicien expérimenté d'installer le moniteur. Pour plus de sûreté, demander au détaillant qui vous a fourni le moniteur de procéder à son installation.

Manipulation

- Veiller à ne jamais laisser tomber ni heurter violemment le moniteur car cela risque de provoquer des pannes ou un incendie.

Panasonic le da la bienvenida a la familia constantemente en aumento de poseedores de productos electrónicos. Nos esforzamos en proporcionarle las ventajas de la ingeniería mecánica y electrónica de precisión, de una fabricación con componentes cuidadosamente seleccionados, y de un montaje realizado por personas orgullosas de la reputación que su trabajo ha cimentado para nuestra empresa. Estamos seguros de que este producto le proporcionará muchas horas de distracción y, una vez comprobada la calidad, el valor y la fiabilidad incorporados, usted también se sentirá orgulloso de pertenecer a nuestra familia.

❑ Características

- **Monitor ancho de LCD en color de 7 pulgadas**

Ofrece imágenes de alta calidad y una excelente reproducción de los colores.

- **Mecanismo de situación de la pantalla completamente eléctrico (excepto el ángulo lateral)**

La situación de la pantalla es completamente eléctrica. Esta función incluye la extensión de la unidad, su elevación a la posición recta vertical, ajuste de su ángulo (de inclinación) vertical y el movimiento hacia delante y atrás.

El ángulo lateral hacia la derecha e izquierda puede ajustarse manualmente.

- **Provisto de regulador automático de la iluminación**

Ajusta automáticamente el brillo de la imagen de acuerdo con la intensidad de la luz ambiental.

- **Función de control del cambiador de discos CD**

Permite la expansión del sistema añadiendo un cambiador de discos CD opcional (CX-DP801EUC, etc.)

- **Ajuste del código de ID**

Es un código de ID de 4 dígitos para aumentar la seguridad.

- **Altavoz incorporado en la pantalla para el sistema de navegación de automóvil (para empleo en el futuro).**

Hemos diseñado un pequeño altavoz incorporado en la pantalla.

El altavoz se emplea sólo para el sistema de navegación de automóvil Panasonic (para empleo en el futuro).

Encontrará el número de modelo y el número de serie en la parte posterior o en la inferior del aparato. Anótelos en el espacio de abajo y guarde este manual como registro permanente de su adquisición para ayudar a su identificación en caso de robo.

NÚMERO DE MODELO **CQ-VA707WEUC** NÚMERO DE SERIE _____

FECHA DE ADQUISICIÓN _____ ESTABLECIMIENTO _____

☐ **Emplee este aparato con seguridad**

Advertencia:

Para evitar correr el riesgo de heridas y de posibles violaciones de la ley, no lo utilice donde pueda ser visible al conductor para cualquier otro propósito que no sea el de navegación o de cámara de visión trasera.

Cuando esté conduciendo

- El conductor no deberá operar el monitor en color de LCD. La operación del monitor en color de LCD puede causar distracción y ser motivo de un accidente. Pare el vehículo en un lugar seguro para operar el aparato.
- El conductor no deberá mirar vídeos mientras conduce. Podría distraerse y ser causa de un accidente.
- Mantenga el aparato a un nivel de sonido apropiado. Si conduce con un nivel de sonido que le impide oír el sonido del exterior del vehículo, puede ser causa de un accidente.

Precaución:

Cuando esté lavando el auto

No esponga el aparato al agua ni a la humedad excesiva. Podría ser causa de cortocircuitos, incendios u otros daños.

Cuando haya estacionado

- El estacionar bajo la luz solar directa produce temperaturas muy altas dentro de su vehículo. Asegúrese de enfriar el interior del vehículo antes de encender la unidad.
- No mire el monitor con el motor desconectado. Consumiría la energía de la batería y podría evitar el arranque del motor.

Emplee la alimentación eléctrica correcta

- Este aparato está diseñado para funcionar con 12 V CC, de un sistema de batería de tierra negativa (el sistema normal de un automóvil de los EE.UU.).

Use los centros de servicio autorizados

- No intente desmontar o ajustar este equipo de precisión. Para solicitar ayuda relativa a los servicios de mantenimiento, refiérase a la lista de los centros de servicio.

Para la instalación

- Asegúrese de instalar el monitor en una posición que no obstruya la visión del conductor.
- Asegúrese de no instalar la unidad de control en los lugares siguientes:
Lugares que puedan quedar expuestos al agua, lugares en que pueda ser pisada, o en los que quede expuesta a aire caliente como pueda ser cerca de un conducto de la calefacción.
- No instale el aparato en lugares que pueda obstruir la operación del airbag.
- Solicite la instalación del aparato a un técnico experimentado. La instalación y las conexiones eléctricas requieren experiencia. Para estar más seguro, solicite la instalación a la tienda donde haya comprado el aparato.

Durante la operación

- Asegúrese de no permitir que se caiga el aparato ni que reciba golpes porque podrían ser causa de mal funcionamiento o de un incendio.

Contents

☐ Features	Page 2
☐ Use This Product Safely	3
☐ ID Code/Battery Insertion/Battery Notes	13
☐ Name of Controls	14
☐ Before Use	18
☐ User Settings	22
☐ Sound Settings	33
☐ Screen Adjustment.....	36
☐ Operation: General.....	41
☐ Radio Basics	45
Band selection, manual and automatic tuning, preset stations, and Auto station preset	
☐ CD Changer Basics	47
Play, random, scan and repeat	
Note: CD changer controls are applicable to units with optional CD changer unit (sold separately)	
☐ Auxiliary	51
☐ Installation Guide	52
☐ Electrical Connections	61
☐ Troubleshooting	67
Troubleshooting tips, where to get service help	
☐ Maintenance	71
☐ Specifications	72

Table des matières

❑ Caractéristiques dominantes.....	Page 4
❑ Utiliser ce produit en respectant la sécurité.....	5
❑ Code d'identification/Mise en place des piles/Remarques relatives aux piles	73
❑ Nomenclature	74
❑ Avant l'utilisation	78
❑ Réglages utilisateur	82
❑ Réglage du son	93
❑ Réglage de l'écran	96
❑ Utilisation: Généralités	101
❑ Utilisation de base de l'autoradio	105
Sélection de bande, synchronisation manuelle et automatique, mise en mémoire manuelle et automatique	
❑ Utilisation de base du changeur de disque CD	107
Lecture, lecture en reprise, lecture aléatoire, balayage	
Remarque: Les commandes du changeur de disque CD ne s'appliquent qu'aux appareils équipés d'un changeur de disque CD optionnel (vendu séparément)	
❑ Opération auxiliaire	111
❑ Guide d'installation	112
❑ Branchements électriques	121
❑ En cas de difficulté	127
Conseils en cas de difficulté, où obtenir l'assistance technique.	
❑ Entretien	131
❑ Données techniques	132

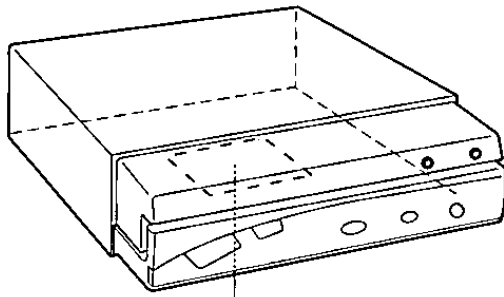
Índice

☐ Características	Página 6
☐ Empleo de este producto con seguridad	7
☐ Código de ID/inserción de las pilas/Notas sobre las pilas	133
☐ Nombre de los controles	134
☐ Antes de la utilización	138
☐ Ajustes del usuario	142
☐ Ajustes del sonido	153
☐ Ajuste de la pantalla	156
☐ Operación: General	161
☐ Instrucciones básicas para la radio	165
Selección de la banda, sintonización manual y automática, preajuste de emisoras, y memoria automática de preajustes	
☐ Instrucciones básicas del cambiador de discos CD	167
Reproducción, reproducción aleatoria, exploración y repetición	
Nota: Los controles del cambiador de discos CD son aplicables a las unidades provistas del cambiador de discos CD opcional (vendido por separado).	
☐ Instrucciones auxiliares	171
☐ Guía de la instalación	172
☐ Conexiones eléctricas	181
☐ Solución de problemas	187
Sugerencias para la solución de problemas, dónde solicitar el servicio técnico	
☐ Mantenimiento	191
☐ Especificaciones	192

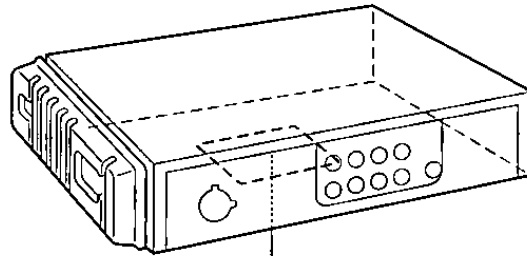
• Label indication and its location

Display Unit

Control Unit



Identification Label (A)



Identification Label (B)

Identification Label (A)

Panasonic
 Model No. **CQ-VA707WEUC**
 N° De Modèle

12 V 1 2 V 4 Ω 10 A

Manufactured by Matsushita
 Communication Industrial Co., Ltd.
 Yokohama Japan Made in Japan

Serial No.
 N° De Série

This device complies with Part 15 of the
 FCC Rules. Operation is subject to the
 condition that this device does not cause
 harmful interference.

Identification Label (B)

Panasonic
 Model No. **YEP0FX3799**
 N° De Modèle

12 V 4 Ω 10 A

Manufactured by Matsushita
 Communication Industrial Co., Ltd.
 Yokohama Japan Made in Japan

No.
 N°

Part 15 of the FCC Rules

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

ID Code

Prior to operating this unit, it is advisable to assign your 4-digit ID code for security.

Once the ID code has been set, the unit cannot be operated if the main power supply is disconnected then re-connected. It is electronically locked up so that the thief could not use the stolen unit unless that person knows the code you have set.

Generally, it is not necessary to enter the ID code each time when using the unit if it has never been disconnected from the main power supply (car battery). For the ID code setting procedures, see pages 30 to 32.

CAUTION:

RECORD YOUR REGISTERED ID CODE IN A SECURE LOCATION.
IF YOU FORGET IT, YOU WILL BE UNABLE TO USE THE UNIT.

ENGLISH
1

Battery Insertion

1. Open the battery holder cover.

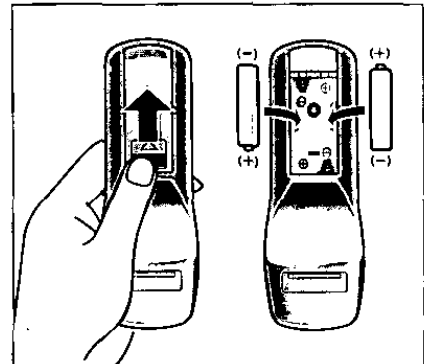
Lightly depress the cover and slide it out.

2. Insert the battery.

Insert batteries in the correct direction, making sure that their positive (+) and negative (-) ends match the same symbols in the battery holder.

3. Replace the cover.

The cover is fixed in place with a click.



Battery Notes

- Battery type: Batteries to be used: Two manganese UM4 dry cells (R03) (Do not use alkaline dry cells.)
- Battery life: About 5 months under normal conditions of use. (Manganese dry cells at normal temperature)

Caution:

Improper use of batteries may cause overheating, explosion or ignition, resulting in injury or fire.
Battery leakage may cause damage to the unit.

- Do not disassemble or short the batteries. Do not throw the batteries into a fire.
- To avoid the risk of accident, keep the batteries away from children.
- To store batteries, insulate them with tape or the like. Contact with metallic objects or other batteries can cause ignition or rupture.
- If the batteries are used in the wrong way, there is the danger of liquid leakage, rupture, injuries, and failure. (Insert batteries correctly with respect to their positive (+) and negative (-) ends.)

Name of Controls

WARNING:

For safe driving, operation is available only in stopped condition with the parking brake engaged. "WARNING" will be displayed, if you try to switch to VTR or AV mode by pressing the [MODE] button while driving.

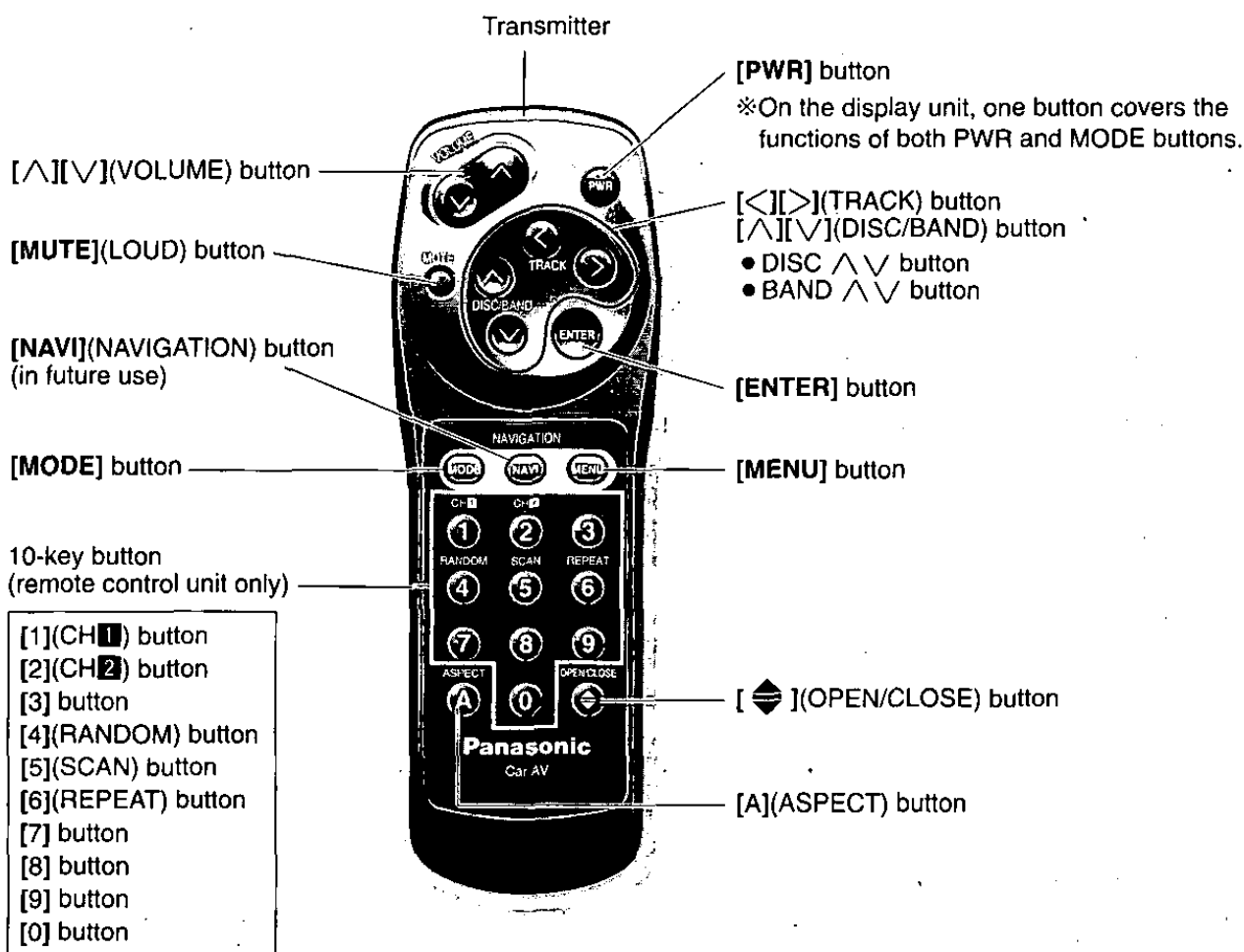
ENGLISH
2

Remote Control Unit

To use the remote controller, direct it at REMOTE (remote control light sensor) on the display unit. (See the next page.)

There are differences in the control buttons between the remote control and the display unit. If the remote control does not have the button you wish to use, operate it on the display unit.

- Button not on the remote control.....[TILT] button



Note:

If the display unit is in the retracted position, the [MENU], [NAVI](NAVIGATION), [A](ASPECT) and [TILT] buttons cannot be used.

Operate the controls on the display unit in the same way as you operate the remote control buttons.

There are differences in the control buttons between the display unit and the remote control unit. If the display unit does not have the button you wish to use, operate it on the remote control unit.

- Buttons not on the display unit:

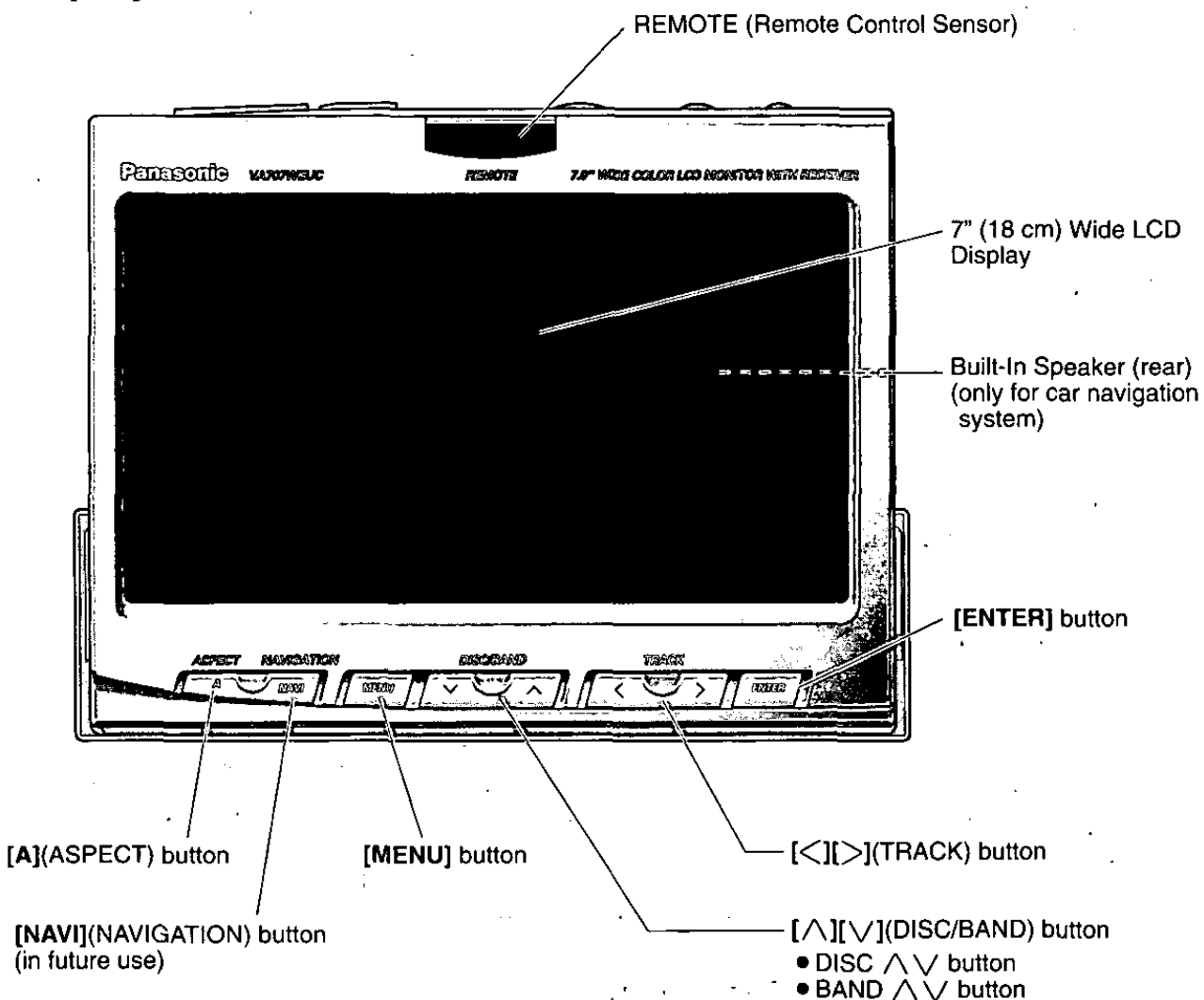
10-key button

[1](CH1) button
[2](CH2) button
[3] button

[4](RANDOM) button
[5](SCAN) button
[6](REPEAT) button

[7] button
[8] button
[9] button
[0] button

Display Unit



Notes:

- When the display unit is in the retracted position, the [MENU], [NAVI](NAVIGATION), [A](ASPECT) and [TILT] buttons cannot be used.
- The [MODE] button on the front of the display unit remains lit even when power is off.
- When power is on, the indicator of the selected mode lights.

Name of Controls (Continued)

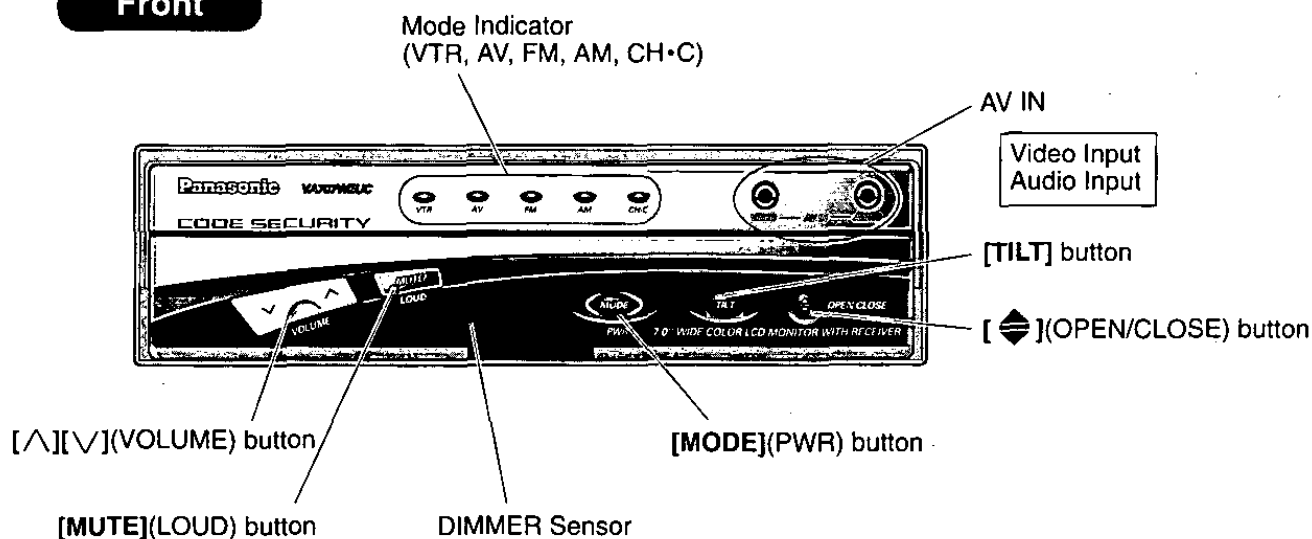
WARNING:

For safe driving, operation is available only in stopped condition with the parking brake engaged. "WARNING" will be displayed, if you try to switch to VTR or AV mode by pressing the **[MODE]** button while driving.

ENGLISH
4

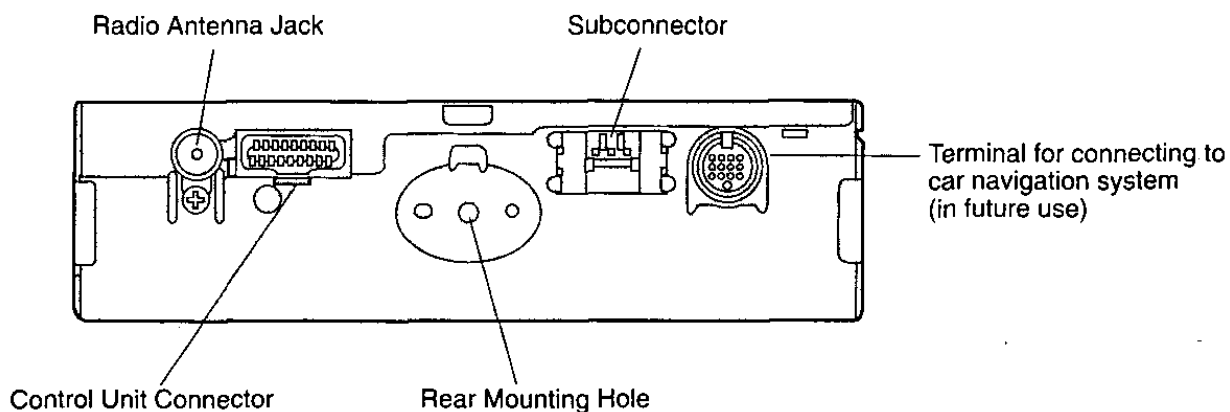
Display Unit

Front



Rear

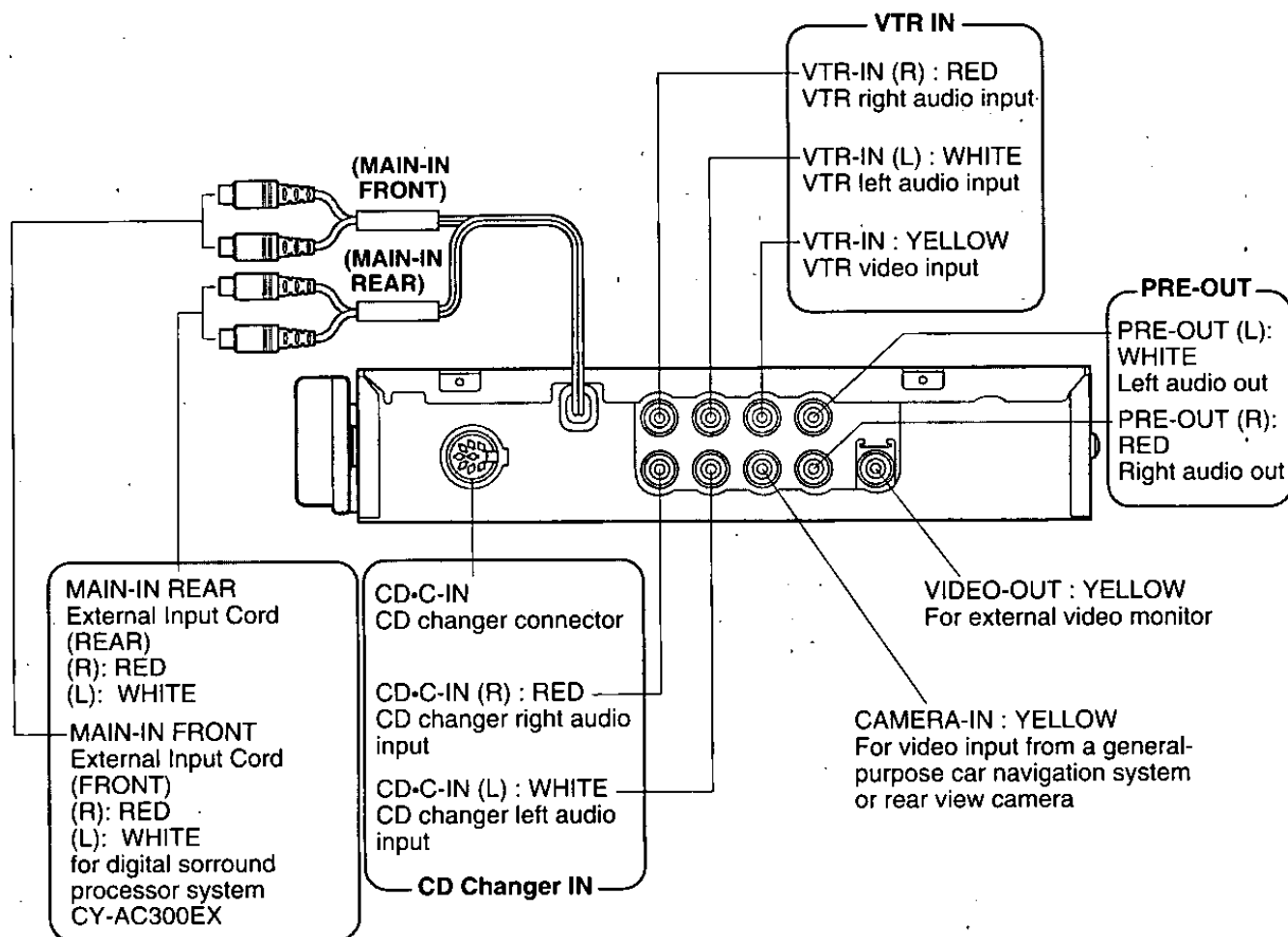
See pages 61 to 66 about electrical connections.



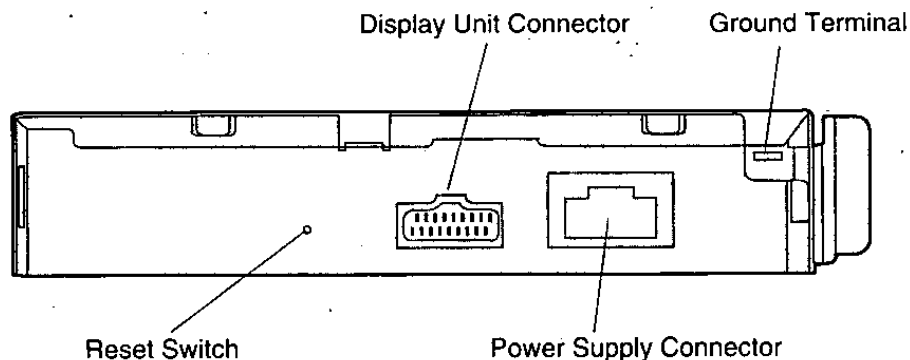
Control Unit

Front

See pages 61 to 66 about electrical connections.



Rear



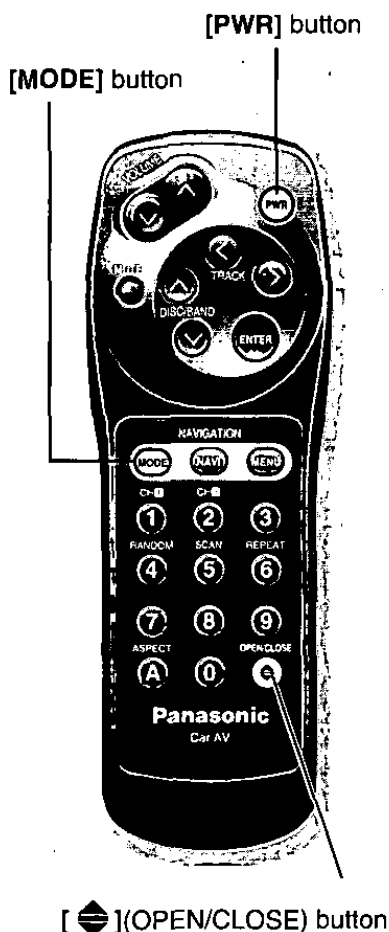
Before Use

Turn the key in the ignition until the accessory indicator lights.

Warning:

Do not insert hands, fingers or foreign objects into the unit while the display is moving.
Inserting your hands, fingers or foreign objects into the unit can cause injuries and damage to the unit.

ENGLISH
6



Power ON

Press [PWR] or [MODE] to switch on the power.

※When using the display unit, press [MODE](PWR) to switch on the power.

Note: FM is originally set.

Power OFF

Press [PWR] again to switch off the power.

※When using the display unit, press and hold [MODE](PWR) for more than 2 seconds to switch off the power.

Note:

The [MODE] button on the front of the display unit remains lit even when power is off.

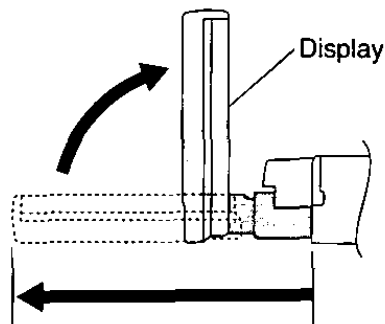
How to Open and Raise the Display

Press [◆](OPEN/CLOSE) to draw out and raise the display.

The display unit is automatically set at the angle, and in the position, adjusted before. (See pages 19 and 22.)

Note:

When the display unit is opened or closed, the loud beep sounds three times from the built-in speaker in the display unit.

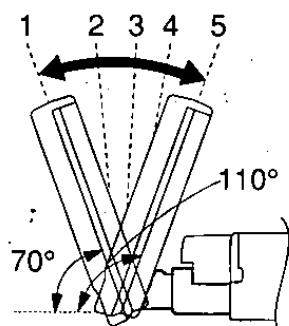


Cautions:

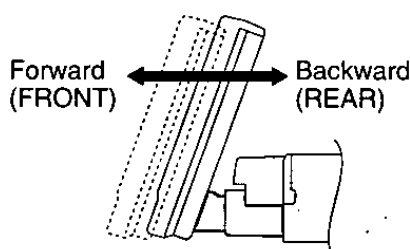
- Mount the unit in a position where it will be free from contact with any obstacle.
- If the unit stops halfway, press [◆](OPEN/CLOSE) again and draw it all the way in.
- Do not forcibly move it by hand.

Vertical Angle (TILT) and Forward-Backward Position Adjustment

- The angle adjustment is approximate and may deviate slightly from the set value depending on the installation position and other conditions.
- Connection of the optional L Type AV Input Cord to the front panel of the display unit may somewhat restrict the unit's vertical movement and movement to the front and rear. Position the cord to prevent it from getting caught in the display unit.



Tilting angle adjustment (5 levels)



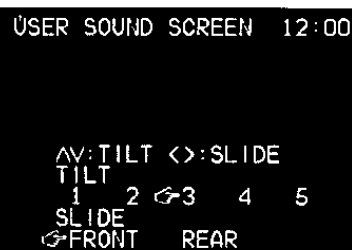
FRONT-REAR position

Cautions:

- For smooth adjustment, make sure to first return the lateral angle to neutral position and then adjust the tilt angle.
- Do not manually change the position of the unit by force.

- ① After raising the display, press and hold **[TILT]** on the display unit for more than 1 second to display the monitor position setting menu.

- ② Press **[^]** or **[v]** to adjust the tilting angle.
Press **[<]** or **[>]** to move the display to the front or rear position:



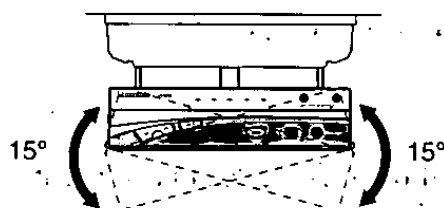
Notes:

- The monitor position setting menu is automatically closed if no operation is performed for about 10 seconds.
- Vertical angle (TILT) and forward-backward position data is saved in the memory, so when the display unit is drawn out next, it is automatically set at the angle and in the position adjusted before.
- Display position can also be set on the menu screen.
(See page 22.)

Display Unit Lateral Angle Adjustment

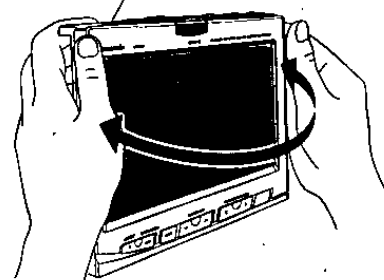
Hold the display unit by the non-slip part in the upper half of it, and adjust its lateral angle.

Non-Slip Part (on the back)



(Top view)

Lateral angle adjustment



Cautions:

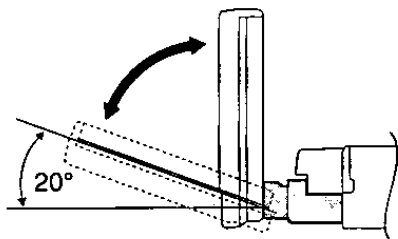
- There is the danger of your fingers being pinched if you hold the unit by the lower part. Hold the unit by the **upper half** of it, and move it carefully without applying an undue force.
- After adjusting its angle, also adjust the brightness to make it easy for you to watch. (See page 38.)

Before Use (Continued)

Warning:

Do not insert hands, fingers or foreign objects into the unit while the display is moving. Inserting your hands, fingers or foreign objects into the unit can cause injuries and damage to the unit.

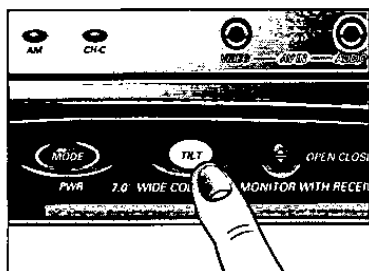
ENGLISH
8



Folding down the Display Temporarily

Folding down the display unit is convenient for gaining access to the air conditioner controls, for example. You can fold it down even when the power is off.

Press [TILT] on the display unit to fold down the display unit. Press [TILT] on the display unit again to raise the display unit.



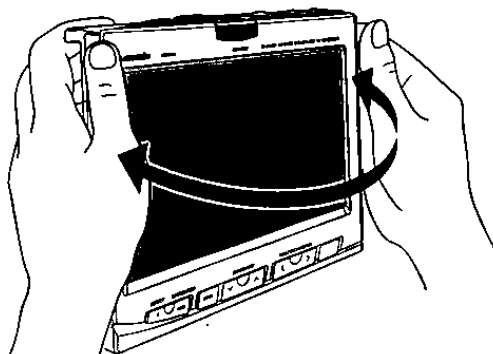
Caution:

Do not place any object on the display unit, or subject it to undue force.

Retracting the Display

- ① Hold the display unit by its upper portion (with non-slip finish on the back) and return its lateral angle to neutral position.

Return to neutral position



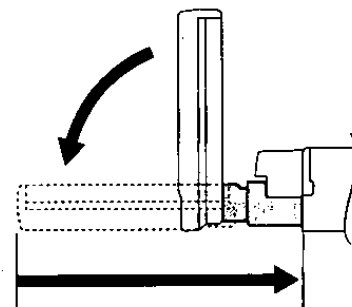
- ② Press [] (OPEN/CLOSE) to retract the display unit.



[] (OPEN/CLOSE) button

Notes:

- When the display unit is opened or closed, a loud beep sounds three times from the built-in speaker in the display unit.
- The display unit cannot be retracted if it is not returned to the neutral of lateral angles. If it is not retracted by pressing the [] (OPEN/CLOSE) button, check again that the unit is back in the lateral neutral position.

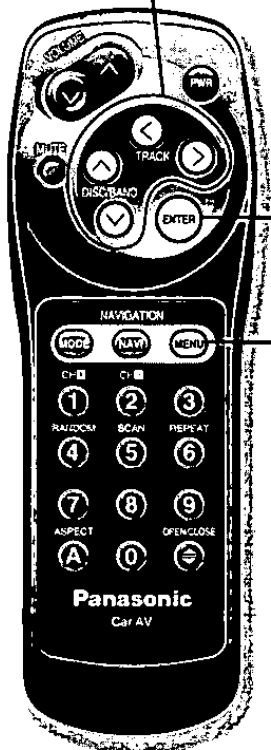


Using Menu/Menu Control

The main menu screen consists of menu and submenus. Refer to the operation guide shown on the screen.

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.

[^][v], [<][>] button



[ENTER] button

[MENU] button

Main Menu

Menu

Selected item
(pink colored)

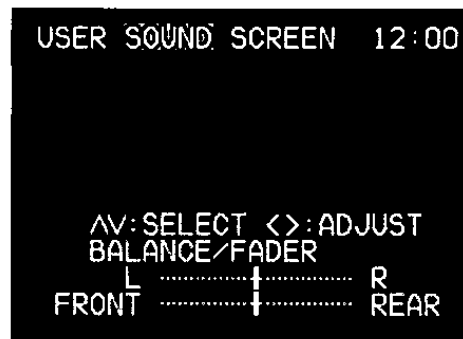
Submenu



Operation guide

- ② Press [**^**], [**v**], [**<**] or [**>**] button to move the cursor.
- ③ Press **[ENTER]** to select an item.
The setting/adjusting menu for the selected item is displayed.

Setting/Adjusting Menu



For setting procedures, refer to pages 22 to 40.

Notes:

- The main menu and the setting/adjusting menu are not displayed when the display unit is in the retracted position.
- Press **[MODE]** to close the main menu and the setting/adjusting menu.

User Settings

Monitor Position (TILT/SLIDE)

Adjust the tilt angle and front/rear position of the raised display unit.

[Default: 3/Front]

※The monitor position setting menu can also be displayed by pressing the [TILT] button on the front panel of the display unit for more than 1 second. (See page 19.)

ENGLISH
10

[^][v], [<][>] button

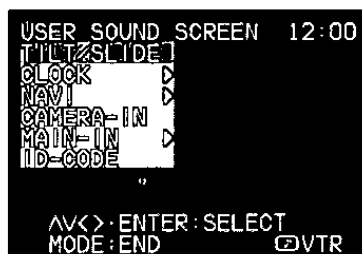


[ENTER]
button

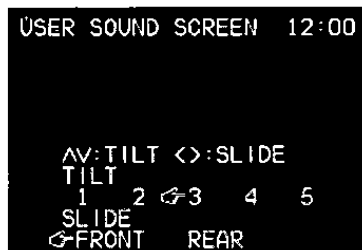
[MENU]
button

- ① Press and hold [MENU] for more than 2 seconds to display the menu.

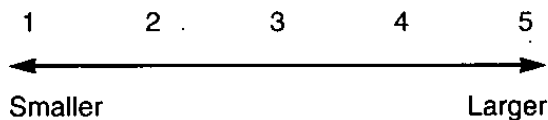
Press [<] or [>] to select "USER". Press [v] or [^] to select "TILT/SLIDE".



- ② Press [ENTER] to set "TILT/SLIDE".



- ③ • Press [^] or [v] to increase or decrease the tilt angle of the display unit.



- Press [<] or [>] to move the display to the front or rear position.

Note:

Position "REAR" and tilt angle "5" cannot be selected at the same time.

Notes:

- Press [MODE] to close the main menu and the setting/adjusting menu.
- Press [MENU] in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

Clock Setting (CLOCK)

<Clock Display>

Enable or disable clock display.

[Default: CLOCK OFF]

① Press and hold **[MENU]** for more than 2 seconds to display the main menu.

Press **[<]** or **[>]** to select "USER". Press **[V]** or **[^]** to select "CLOCK OFF" ("CLOCK ON").

[^][V], [<][>] button



[ENTER]
button

[MENU]
button



② Press **[ENTER]** to switch the clock display as follows.

CLOCK ON ← → CLOCK OFF

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Until the time is adjusted, "12:00" blinks on the display.

User Settings (Continued)

Clock Setting (continued)

<Clock Adjustment>

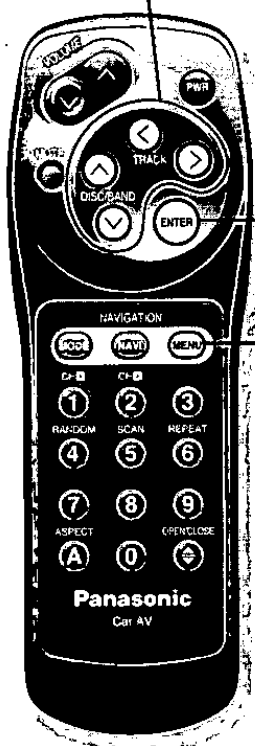
Adjust the time (12-hour system).

[Default: "12:00" blinks until the time is adjusted.]

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.

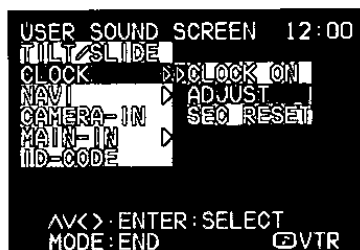
Press **[<]** or **[>]** to select "USER". Press **[V]** or **[^]** to select "CLOCK" and "ADJUST".

[^][V], [<][>] button

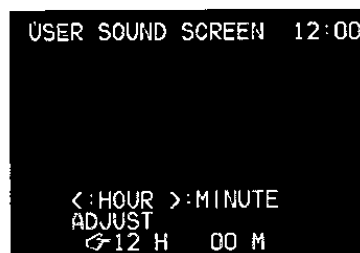


[ENTER]
button

[MENU]
button



- ② Press **[ENTER]** to set "ADJUST".



- ③ Press **[<]** to adjust the hour.
Press **[>]** to adjust the minute.
Hold **[<]** or **[>]** to change numbers rapidly.

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

Clock Setting (continued)

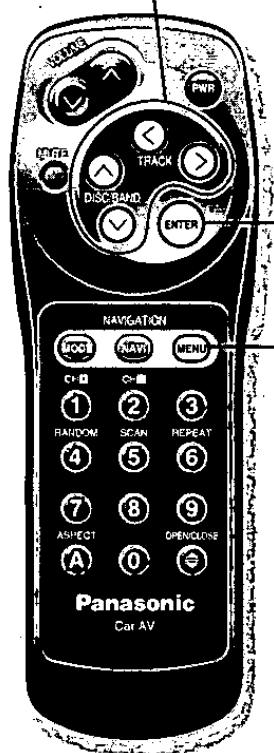
<Clock Re-adjustment>

Reset the clock to zero seconds.

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.

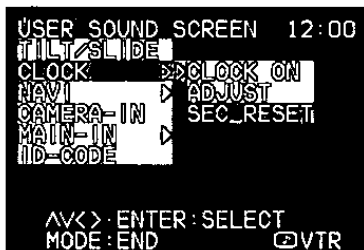
Press **[<]** or **[>]** to select "USER". Press **[V]** or **[^]** to select "CLOCK" and "SEC RESET".

[^][V], [<][>] button



[ENTER]
button

[MENU]
button



- ② Press **[ENTER]** to reset the second and the clock display blinks once.

Note:

Press **[MODE]** to close the main menu and the setting/adjusting menu.

User Settings (Continued)

Navigation Input (NAVI-IN) (in future use)

Caution:

When the navigation system is not connected, be sure to select "RGB".

Navigation input can be set when a car navigation system is connected. Set the car navigation connected terminal to the same item. [Default: RGB]

ENGLISH
14

[^][v], [<][>] button

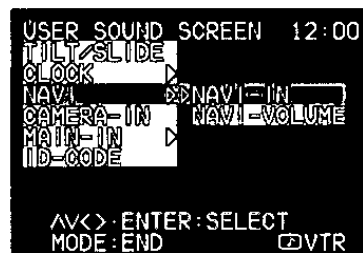


[ENTER] button

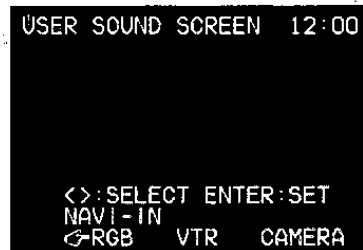
[MENU] button

- ① Press and hold [MENU] for more than 2 seconds to display the main menu.

Press [<] or [>] to select "USER".
Press [v] or [^] to select "NAVI" and "NAVI-IN".

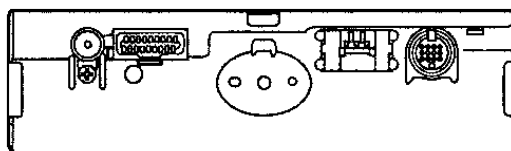


- ② Press [ENTER] to set "NAVI-IN".

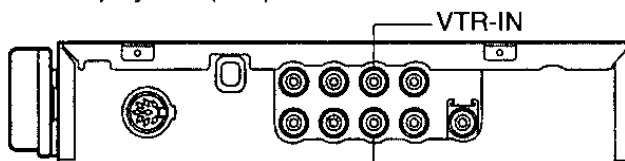


- ③ Press [<] or [>] to move the cursor.

RGB: Panasonic car navigation system is connected to the RGB connector (in future use), or is not connected yet.
VTR: A car navigation system is connected to the VTR-IN terminal.
CAMERA: A car navigation system is connected to the CAMERA-IN terminal.



Display Unit (rear)



Control Unit (front)

- ④ Press [ENTER] to select an item.

Notes:

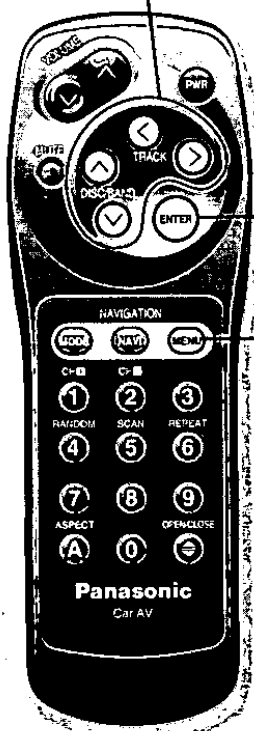
- Press [MODE] to close the main menu and the setting/adjusting menu.
- Press [MENU] in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

Navigation Volume (NAVI-VOLUME) (in future use)

Navigation volume can be set when Panasonic car navigation system is connected. This is to set the voice guide volume of the car navigation system. Its volume can be set that the volume of the unit will be automatically lowered when the voice guide is on (Navi Mute). When navigation input (see page 26) is set to RGB, connect the unit to the navigation mute cord of the car navigation system.

[Default: Navi Mute 1/Navi Volume 4]

[^][v], [<][>] button

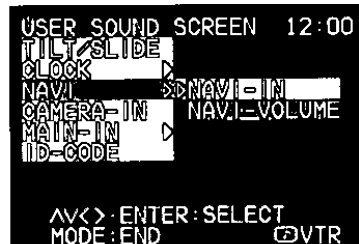


[ENTER]
button

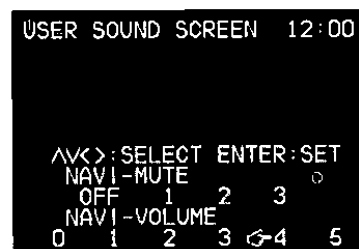
[MENU]
button

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.

Press **[<]** or **[>]** to select "USER". Press **[v]** or **[^]** to select "NAVI" and "NAVI-VOLUME".



- ② Press **[ENTER]** to set "NAVI-VOLUME".



- ③ Press **[^]**, **[v]**, **[<]** or **[>]** to move the cursor.

- Navi Mute Level

- OFF: The volume of the unit remains normal even when the voice guide of the car navigation system is on.

- *The volume can be adjusted with the VOLUME **[^]** and **[v]** buttons.

- 1: The volume of the unit is lowered to about 1/3 of the full level when the navigation voice guide is on.
- 2: The volume of the unit is lowered to about 1/10 of the full level when the navigation voice guide is on.
- 3: The volume of the unit is lowered to zero (no sound) when the navigation voice guide is on.

- Navigation Volume

- <: The volume of the navigation voice guide decreases.
- >: The volume of the navigation voice guide increases.

- ④ Press **[ENTER]** to select the navi mute level and the navigation volume level.

- Navi mute is invalid when navigation input (see page 26) is set to other than RGB, so no item can be selected.
- There is no navigation voice guide output when the display unit is in the retracted position.

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

User Settings (Continued)

Camera Input (CAMERA-IN)

※The following setting is necessary when an optional rear-view camera is connected.

Caution:

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

Camera input can be set when a rear-view camera is connected. This automatically selects the rear-view camera to show the images from the camera while you are driving or when you shift into reverse (R) position. Set it to the same item as the terminal to which the rear-view camera is connected.

ENGLISH
16

[Δ]/[∇], [$\leftarrow$]/[$\rightarrow$] button



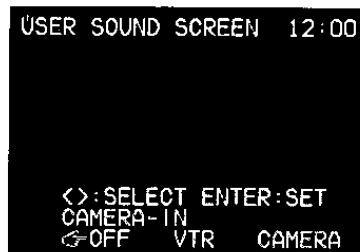
[ENTER] button

[MENU] button

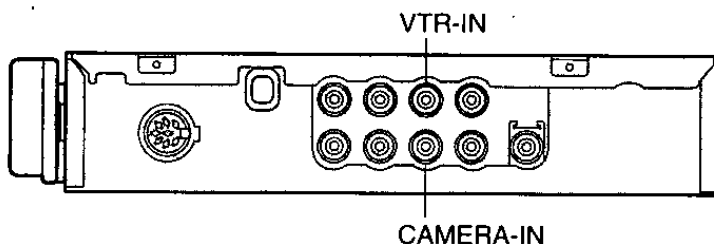
- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.
Press [$\leftarrow$] or [$\rightarrow$] to select "USER".
Press [∇] or [Δ] to select "CAMERA-IN".



- ② Press **[ENTER]** to set "CAMERA-IN".



- ③ Press [$\leftarrow$] or [$\rightarrow$] to move the cursor.
OFF: Rear-view camera is not connected yet.
VTR: Rear-view camera is connected to the VTR-IN terminal.
CAMERA: Rear-view camera is connected to the CAMERA-IN terminal.



- ④ Press **[ENTER]** to select an item.

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

Main Input (MAIN-IN)

This function is to set whether or not to use external input cords. (MAIN-IN FRONT, MAIN-IN REAR). Connect the optional digital surround processor (CY-AC300EX) to external input cords. (See pages 62 to 63.) When it becomes necessary to use external input cords (MAIN-IN FRONT, MAIN-IN REAR), follow the steps below for setting.

Caution:

Make sure to select "OFF" when no external input cord is connected. No sound will be produced in "ON" position.

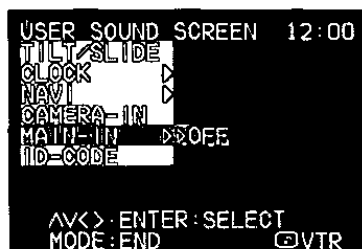
[^][V], [<][>] button



[ENTER] button

[MENU] button

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.
Press [**<**] or [**>**] to select "USER". Press [**V**] or [**^**] to select "MAIN-IN" ("MAIN-OFF").



- ② Press **[ENTER]** to switch the MAIN-IN as follows.

MAIN-IN ON ← → MAIN-IN OFF
(When connected to CY-AC300EX)

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- When MAIN-IN is set to ON, the front and rear volume BALANCE/ FADER cannot be adjusted. (See page 34.)

User Settings (Continued)

ID Code (ID-CODE)

Prior to operating this unit, it is advisable to assign your 4-digit ID code for security.

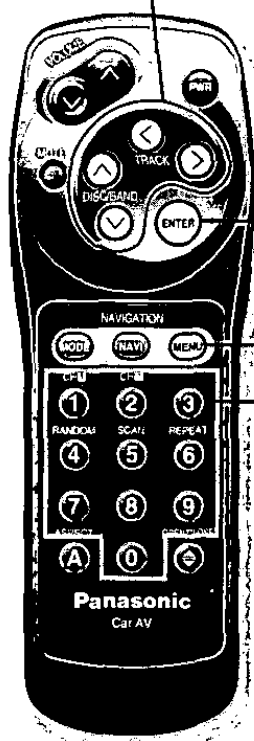
Once the ID code has been set, the unit cannot be operated if the main power supply is disconnected then re-connected. It is electronically locked up so that the thief could not use the stolen unit unless that person knows the code you have set.

Generally, it is not necessary to enter the ID code each time when using the unit if it has never been disconnected from the main power supply (car battery).

CAUTION:

RECORD YOUR REGISTERED ID CODE AND KEEP IT IN A SECURE LOCATION.
IF YOU FORGET IT, YOU WILL BE UNABLE TO USE THE UNIT.

[$\wedge$][$\vee$], [$\leftarrow$][$\rightarrow$] button



[ENTER]
button

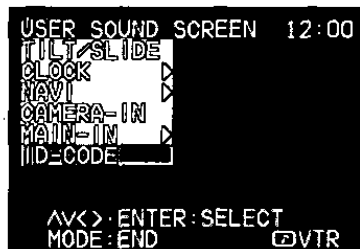
[MENU]
button

10-key button

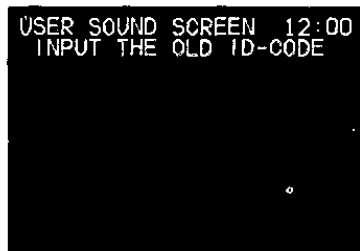
ID Code Setting

■ How to enter your ID code (For the first time)

- ① Press and hold [MENU] for more than 2 seconds to display the main menu.
Press [$\leftarrow$] or [$\rightarrow$] to select "USER".
Press [$\vee$] to select "ID-CODE".



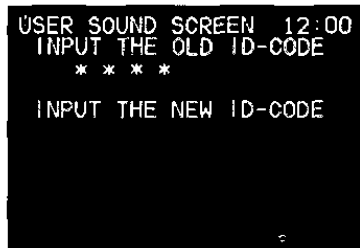
- ② Press [ENTER] to set "ID-CODE".
The ID code setting menu appears.



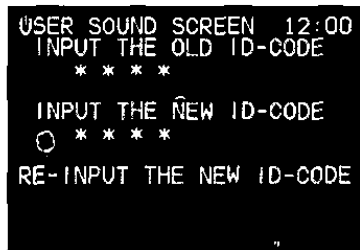
Note:

When you are setting your ID code for the first time, it is not necessary to enter the old ID code.

- ③ Enter an ID code of 4 digits using the 10-key buttons [0] to [9].



- ④ Enter the new ID code of 4 digits again using the 10-key buttons [0] to [9].



■ How to change your ID code

If you wish to change your already set ID code for a new ID code, follow the steps below.

[Δ][∇], [$\leftarrow$][$\rightarrow$] button



[ENTER] button

[MENU] button

10-key button

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu. Press [$\leftarrow$] or [$\rightarrow$] to select "USER". Press [∇] to select "ID-CODE".

```

USER SOUND SCREEN 12:00
TILT SLIDE
CLOCK
NAVI
CAMERA-IN
MAIN-IN
ID-CODE
AVC> ENTER: SELECT
MODE: END VTR
    
```

- ② Press **[ENTER]** to set "ID-CODE". The ID code setting menu appears.
- ③ Enter the present ID code using the 10-key buttons [0] to [9]. If the wrong ID code is entered, a new ID code cannot be registered.

```

USER SOUND SCREEN 12:00
INPUT THE OLD ID-CODE
    
```

- ④ Enter a new ID code of 4 digits using the 10-key buttons [0] to [9].

```

USER SOUND SCREEN 12:00
INPUT THE OLD ID-CODE
* * * *
INPUT THE NEW ID-CODE
    
```

- ⑤ Enter the new ID code of 4 digits again using the 10-key buttons [0] to [9].

```

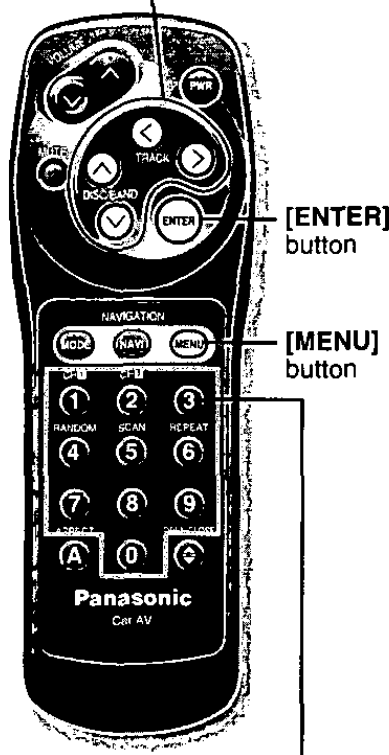
USER SOUND SCREEN 12:00
INPUT THE OLD ID-CODE
* * * *
INPUT THE NEW ID-CODE
* * * *
RE-INPUT THE NEW ID-CODE
    
```

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

User Settings (Continued)

[^][v], [<][>] button



10-key button

■ How to cancel the known ID code

Note: Should your unit ever require service, cancel your ID-Code before sending for repair.

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.
Press [**<**] or [**>**] to select "USER".
Press [**v**] to select "ID-CODE".

```

USER SOUND SCREEN 12:00
TILT/SLIDE
CLOCK
NAVI
CAMERA-IN
MAIN-IN
ID-CODE
AV<> ENTER: SELECT
MODE: END VTR
    
```

- ② Press **[ENTER]** to set "ID-CODE".
The ID code setting menu appears.

```

USER SOUND SCREEN 12:00
INPUT THE OLD ID-CODE
    
```

- ③ Enter your current ID code of 4 digits using the 10-key buttons [**0**] to [**9**].
"INPUT THE NEW ID-CODE" is displayed, but please ignore it.

```

USER SOUND SCREEN 12:00
INPUT THE OLD ID-CODE
* * * *
INPUT THE NEW ID-CODE
    
```

- ④ Press and hold **[ENTER]** until display the "RE-INPUT THE NEW ID-CODE".

```

USER SOUND SCREEN 12:00
INPUT THE OLD ID-CODE
* * * *
INPUT THE NEW ID-CODE
* * * *
RE-INPUT THE NEW ID-CODE
    
```

- ⑤ Press **[MODE]** to close the ID code menu.

The ID code canceling procedure is completed. The unit now works like other radio without ID-CODE.

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

Sound Settings

TONE - BASS/TREBLE

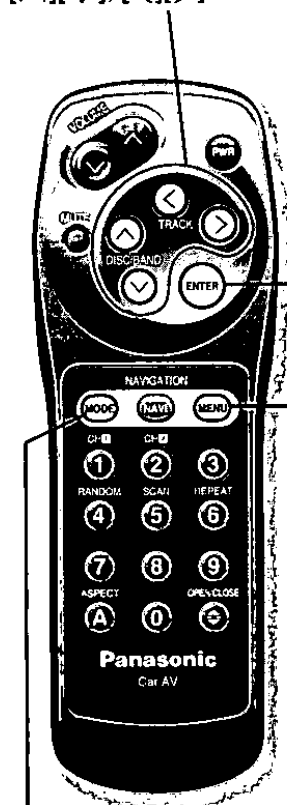
Emphasize or de-emphasize bass/treble frequencies.

[Default: 0 dB, adjustment range: -12 dB to +12 dB]

① Press and hold **[MENU]** for more than 2 seconds to display the main menu.

Press **[<]** or **[>]** to select "SOUND". Press **[V]** or **[^]** to select "TONE", then "BASS" or "TREBLE".

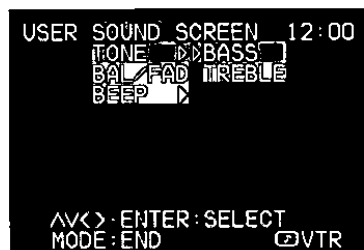
[^][V], [<][>] button



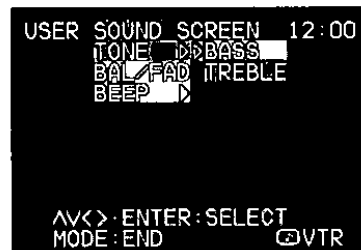
[ENTER]
button

[MENU]
button

[MODE] button



BASS



TREBLE

② Press **[ENTER]** to set "BASS" or "TREBLE".



-12dB to +12dB

BASS



-12dB to +12dB

TREBLE

③ Press **[<]** or **[>]** to decrease or increase the bass or treble level.

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

Sound Settings (Continued)

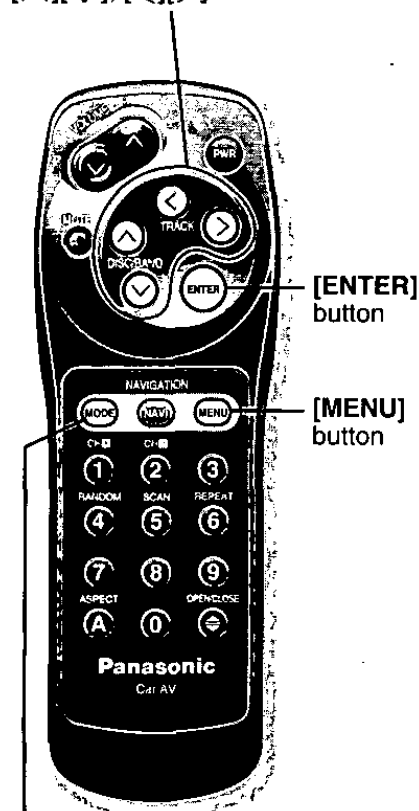
BALANCE/FADER

Adjust the sound volume between the right and left speakers (BALANCE) and the front and rear speakers (FADER).
[Default: Center position]

ENGLISH

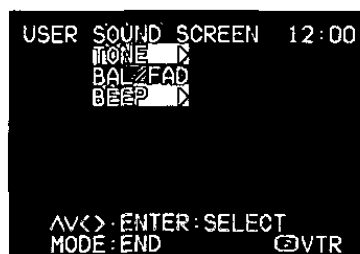
22

[^][v], [<][>] button

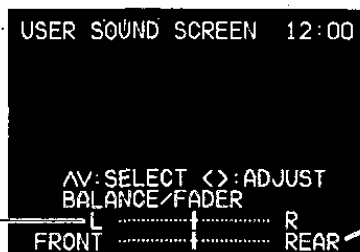


[MODE] button

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.
Press **[<]** or **[>]** to select "SOUND". Press **[v]** or **[^]** to select "BAL/FAD".



- ② Press **[ENTER]** to set "BAL/FAD".



FADER (Volume Adjustment between front and rear)

BALANCE (Volume Adjustment between right and left)

- ③ Press **[^]** or **[v]** to select BALANCE or FADER.
 - Press **[<]** or **[>]** to shift the sound volume to the left or right speakers when selecting BALANCE (L – R).
 - Press **[<]** or **[>]** to shift the sound volume to the front or rear speakers when selecting FADER (FRONT – REAR).

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.
- When MAIN IN setting is ON, the front and rear volume BALANCE/FADER cannot be adjusted. (See page 29.)

BEEP

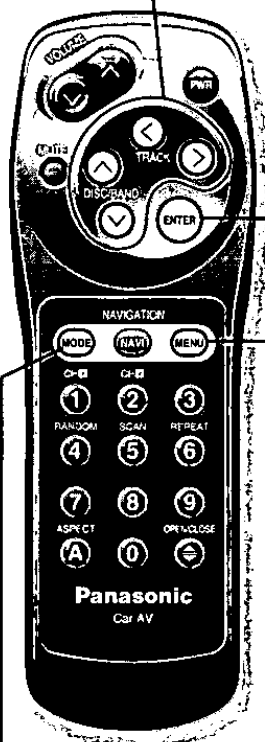
Enable or disable the soft beep.

[Default: ON]

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.
Press **[<]** or **[>]** to select "SOUND". Press **[V]** to select "BEEP".



[<][>], [V], [V] button



- ② Press **[ENTER]** to switch the soft beep as follows.

BEEP ON ← → BEEP OFF

Note:

When the display unit is opened or closed, the loud beep sounds three times. However, the loud beep has nothing to do with BEEP ON/OFF. Accordingly, the loud beep sounds even if BEEP OFF has been set.

[MODE] button

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

Screen Adjustment

DIMMER

Adjust the brightness of the backlight.

[Default: AUTO]

ENGLISH

24

[$\wedge$][$\vee$], [$\leftarrow$][$\rightarrow$] button



[ENTER] button

[MENU] button

- ① Press and hold [MENU] for more than 2 seconds to display the main menu.

Press [$\rightarrow$] to select "SCREEN". Press [$\vee$] or [$\wedge$] to select "DIMMER".



- ② Press [ENTER] to set "DIMMER".

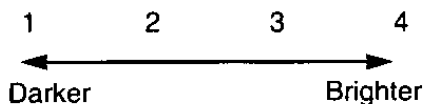


- ③ Press [$\leftarrow$] or [$\rightarrow$] to move the cursor.

AUTO: Automatically adjusted according to ambient light intensity.

$\rightarrow$: To increase light intensity

$\leftarrow$: To decrease light intensity



- ④ Press [ENTER] to select the dimmer level.

Notes:

- Press [MODE] to close the main menu and the setting/adjusting menu.
- Press [MENU] in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

CONTRAST

Adjust the image contrast.

[Default: 0, adjustment range: -15 to +15]

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.
Press **[>]** to select "SCREEN". Press **[V]** or **[^]** to select "CONTRAST".

[^][V], [<][>] button

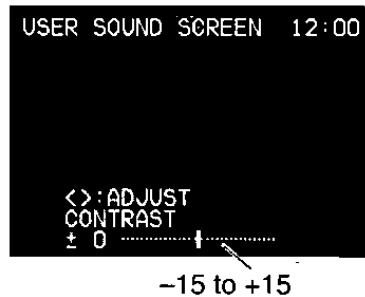


[ENTER]
button

[MENU]
button



- ② Press **[ENTER]** to set "CONTRAST".



- ③ Press **[<]** or **[>]** to increase or decrease the contrast between black and white.

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

Screen Adjustment (Continued)

BRIGHT

Adjust the image brightness.

[Default: 0, adjustment range: -15 to +15]

ENGLISH
26

[Δ][∇], [$\leftarrow$][$\rightarrow$] button



[ENTER]
button

[MENU]
button

- ① Press and hold [MENU] for more than 2 seconds to display the main menu.

Press [$\rightarrow$] to select "SCREEN". Press [∇] or [Δ] to select "BRIGHT".



- ② Press [ENTER] to set "BRIGHT".



- ③ Press [$\leftarrow$] or [$\rightarrow$] to darken or lighten the display.

Notes:

- Press [MODE] to close the main menu and the setting/adjusting menu.
- Press [MENU] in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

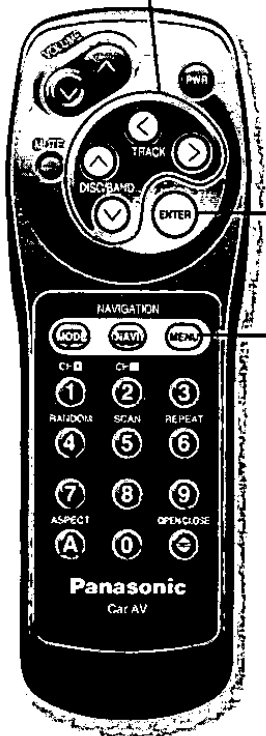
COLOR

Adjust the image color depth.

[Default: 0, adjustment range: -15 to +15]

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.
Press **[>]** to select "SCREEN". Press **[V]** or **[^]** to select "COLOR".

[^][V], [<][>] button



- ② Press **[ENTER]** to set "COLOR".



-15 to +15

- ③ Press **[<]** or **[>]** to lighten or deepen the depth of color on the display.

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

Screen Adjustment (Continued)

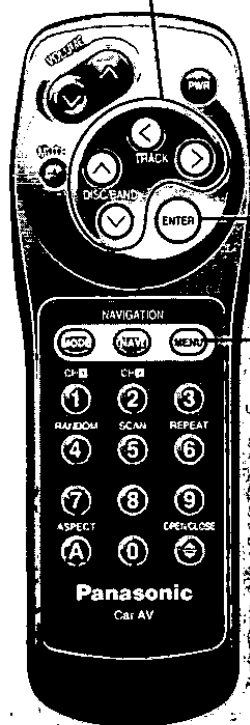
TINT

Adjust the image color tone or tint.

[Default: 0, adjustment range: -15 to +15]

ENGLISH
28

[Δ][∇], [$\leftarrow$][$\rightarrow$] button



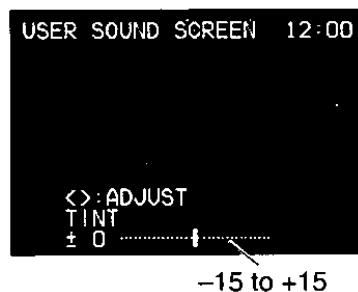
[ENTER]
button

[MENU]
button

- ① Press and hold **[MENU]** for more than 2 seconds to display the main menu.
Press [$\rightarrow$] to select "SCREEN". Press [∇] to select "TINT".



- ② Press **[ENTER]** to set "TINT".



- ③ Press [$\leftarrow$] or [$\rightarrow$] to emphasize red or green in the color image.

Notes:

- Press **[MODE]** to close the main menu and the setting/adjusting menu.
- Press **[MENU]** in the setting/adjusting menu to return to the main menu mode.
- The setting/adjusting menu is automatically closed if no operation is performed for about 10 seconds.

ENGLISH
29

VOL 20.....

[^][V](VOLUME) button



- LOUD

- 41

Operation: General (Continued)

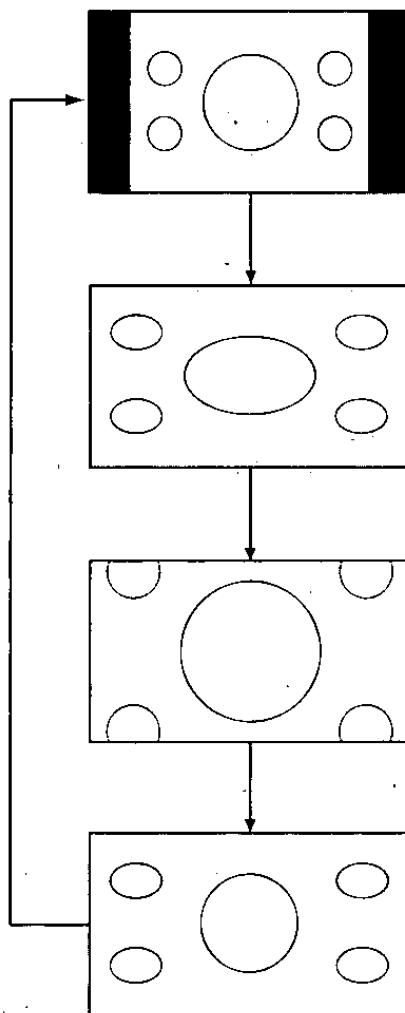
Aspect Ratio

Press [A](ASPECT) to change the aspect ratio as follows.

ENGLISH
30



[A](ASPECT) button



Normal

- The conventional TV image has a 4:3 ratio of horizontal to vertical.
- In this case, a blank area remains on the right and left sides of the display.

Full

- The screen is extended horizontally as a whole to the aspect ratio of 16 to 9.
- The extension ratio is the same at any point of the screen.

Zoom

- The screen is fully extended at the normal aspect ratio of 4 to 3.
- The top and bottom of the screen are slightly cut.

Just

- The screen is extended horizontally to the aspect ratio of 16 to 9.
- The extension ratio increases toward the right and left ends of the screen.

Notes:

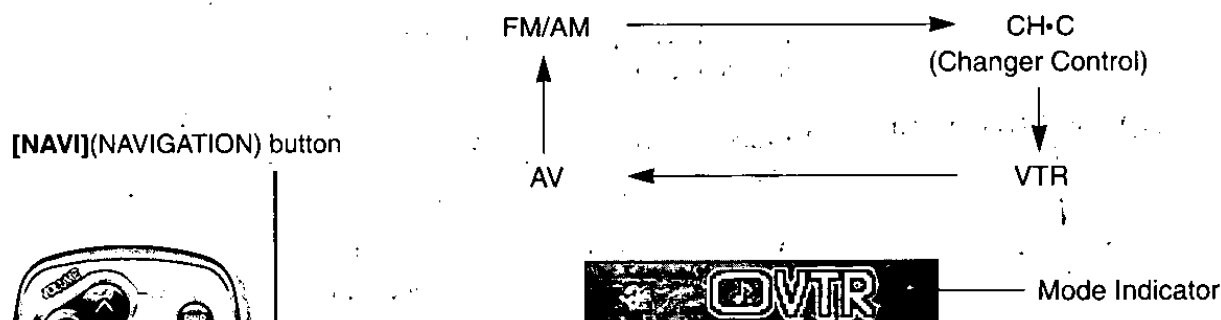
- The zoom and just screens do not apply to car navigation images.
- When the rear-view camera is in operation with the gear shift in the reverse (R) position, the image is shown on the full screen only.

Caution:

This is to remind you that compression or extension of the screen using the aspect ratio (screen mode) changing function of this product for purposes of profit making or viewing/listening by the public could infringe on the rights of the author protected by the copyright laws.

Changing Operation Mode

Press **[MODE]** to change the operation mode as follows.



[NAVI](NAVIGATION) button



[MODE] button

Notes:

- In VTR mode, the external device connected to VTR-IN on the front of the control unit outputs its video and audio. (See page 51.)
- In AV mode, the external device connected to AV-IN on the front of the display unit outputs its video and audio. (See page 51.)
- CH-C (Changer control) mode is not available if no changer is connected or if the magazine is not in the changer.
- If navigation mode is ON, only the audio is switched while the video remains as it is.
- If other than AUTO is selected on the visual setting screen (see page 44), only the audio is switched while the video remains as it is.
- Mode can be changed even when the display unit is in the retracted position.
- The **[MODE]** button on the front of the display unit remains lit even when power is off.

Display Car Navigation Screen (in future use)

Panasonic car navigation system must be connected (in future use).

- Press **[NAVI](NAVIGATION)** to change to the car navigation mode.
- Press **[NAVI](NAVIGATION)** again to cancel.

Caution:

When a car navigation system is connected to this unit, the correct navigation input setting is necessary. (See page 26.)

Note:

If navigation mode is ON, only the audio is switched while the video remains as it is.

Set Display Image/Visual Setting

※ The same image can be kept displayed regardless of mode switching. (Default: AUTO)

① Press **[MENU]** to display the visual setting menu.

② Press **[<]** or **[>]** to move the cursor.

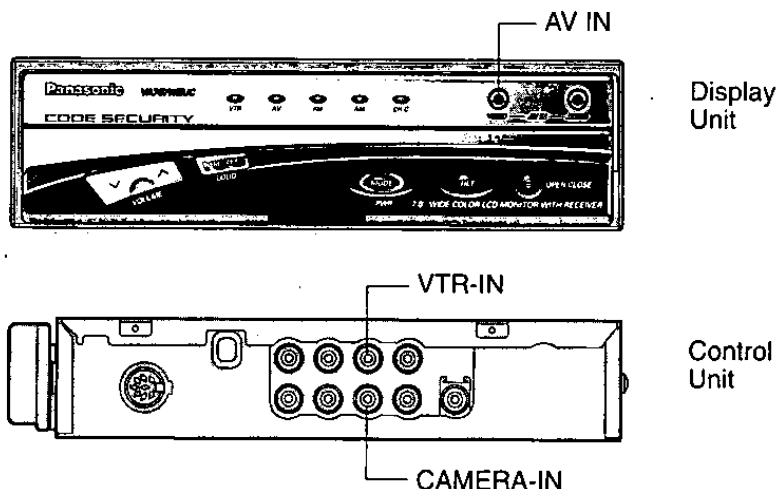
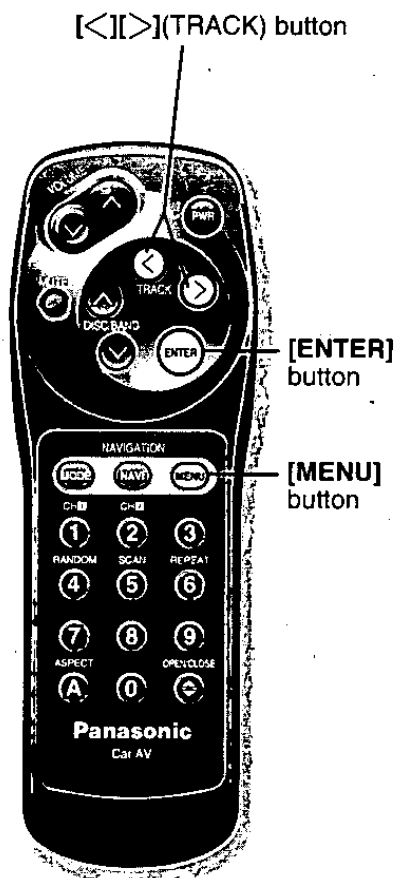
<>: SELECT ENTER: SET
BCV
← AUTO VTR AV CAMERA

AUTO : Both visual and audio change in each mode.

VTR : Images of the device connected to VTR-IN are always displayed.

AV : Images of the device connected to AV-IN are always displayed.

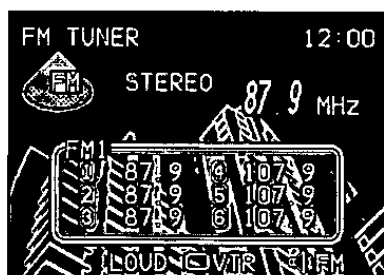
CAMERA : Images of the device connected to CAMERA-IN are always displayed.



③ Press **[ENTER]** to select an image.

Notes:

- Press **[MODE]** to close the visual setting menu.
- The visual setting menu is automatically closed if no operation is performed for about 10 seconds.
- When connecting with Panasonic car navigation system with navigation mode ON, car navigation images are displayed regardless of the settings. (in future use)



To Check the Present Modes

Press **[ENTER]** to display the present visual and audio modes on the screen for 4 seconds.

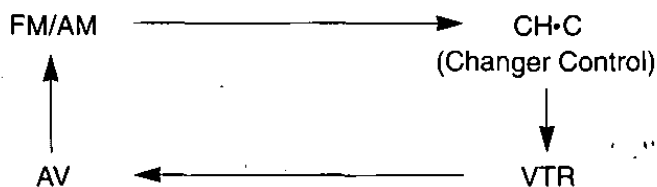
Note:

Both indicators for the present visual mode and audio mode on the front of the display unit light.

Radio Basics

Tuner Mode

Press **[MODE]** to change to AM/FM mode as follows.



FM TUNER

ENGLISH

33

Notes:

- If navigation mode is ON, only the audio is switched while the video remains as it is.
- If other than AUTO is selected on the visual setting menu (see page 44), only the audio is switched while the video remains as it is.
- Mode can be changed even when the display unit is in the retracted position.
- The **[MODE]** button on the front of the display unit remains lit even when power is off.

Band

Press **[^](BAND)** to switch the FM bands as follows.

FM1 ↔ FM2

Press **[v](BAND)** to switch the AM bands as follows.

AM1 ↔ AM2

The stereo indicator lights during reception of a stereo broadcast. (Only for FM band)

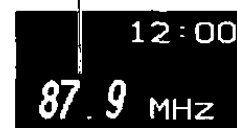
Stereo Indicator



Manual Tuning

Press **[<]** or **[>]** to move to a lower or higher frequency.

Frequency



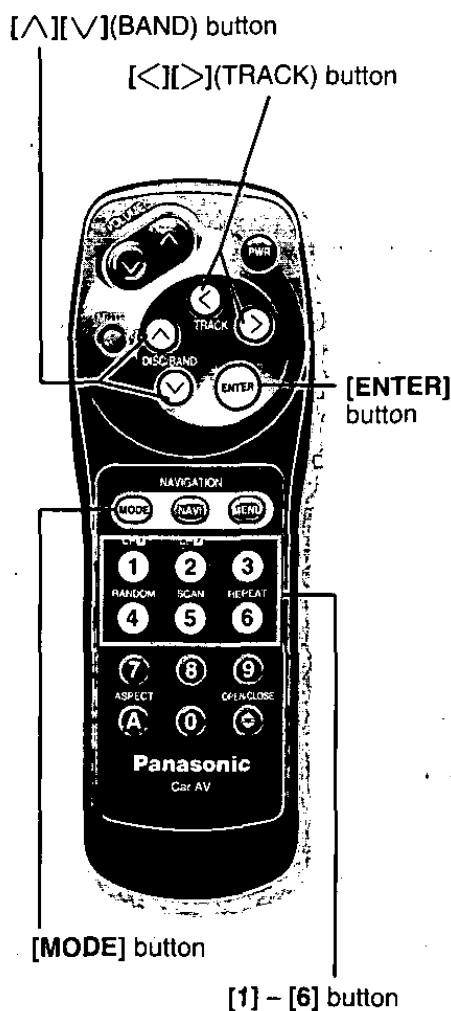
Seek Tuning

Press and hold **[<]** or **[>]** for more than 0.5 seconds, then release. The tuning automatically stops at the next station.

Radio Basics (Continued)

ENGLISH

34



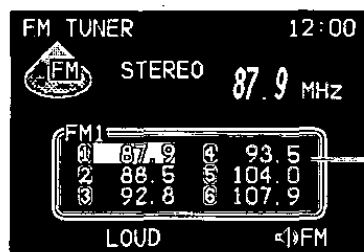
Station Preset

FM1, FM2, AM1 and AM2 can save a maximum of 6 stations each in their preset station memories.

Manual Station Preset

Save the currently received station to any of the preset buttons [1] to [6]. (Up to 6 stations can be memorized per band.)

- ① Press [^] or [v] to select a desired band.
- ② Use manual or seek tuning to find a station which is to be preset in the memory.
- ③ Press and hold one of the preset buttons [1] to [6] until the display blinks.



Note:

Preset memory or auto preset memory operation deletes the previously set station and presets the newly selected station in its place.

Auto Station Preset

Activate an automatic search for the strongest available stations on the presently received band, starting from the lowest frequency. Then save the stations offering the best reception to preset buttons [1] to [6]. (Up to six stations can be memorized per band.)

Select a band, press and hold [ENTER] for more than 2 seconds.

- The 6 strongest available stations will be automatically set in the memory on preset buttons [1] to [6].
- Once set, the preset stations are sequentially scanned for 5 seconds each.

Note:

Preset memory or auto preset memory operation deletes the previously set station and presets the newly selected station in its place.

Tuning in to a Preset Station

This is to tune in to a station saved in the memory by Manual or Auto Station Preset.

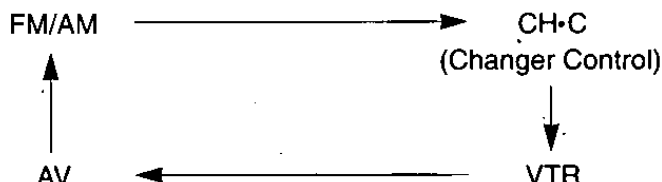
Press any of the buttons [1] to [6] to tune in to the preset station.

CD Changer Basics

- An optional changer (CX-DP801EUC, for example) must be connected.
- Use of the optional Dual CD Changer Control Unit (CA-LA9) allows you to connect two CD changers (dual changers). (in future use) (See page 64.)

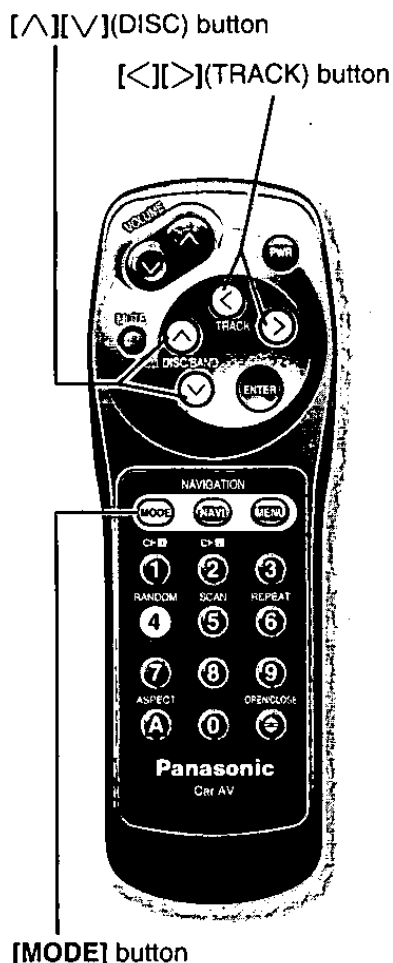
Starting the CD Changer

Once the CD changer has been connected, press **[MODE]** to change to the CD changer mode as follows.



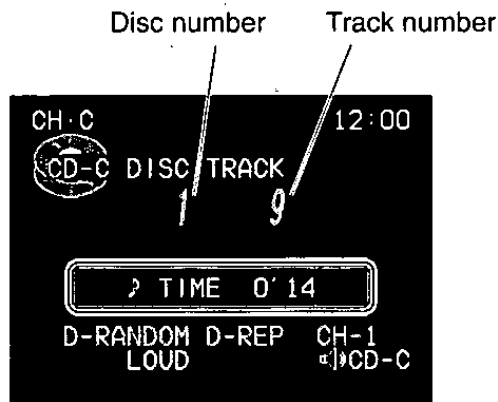
Notes:

- CH-C mode is not available if no changer is connected or if the magazine is not in the changer.
- If no disc is in the magazine, "NO DISC" appears.
- If the magazine is inserted into the changer when power is off, power is switched on. In case of other sound source, CH-C mode is selected and play begins.
- If navigation mode is ON, only the audio is switched while the video remains as it is.
- If other than AUTO is selected on the visual setting menu (see page 44), only the audio is switched while the video remains as it is.
- Mode can be changed even when the display unit is in the retracted position.
- The **[MODE]** button on the front of the display unit remains lit even when power is off.



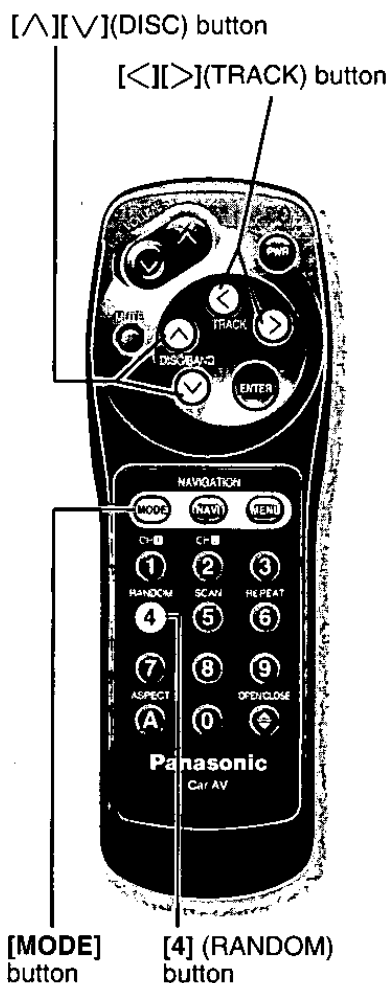
Disc Selection

Press **[V](DISC)** or **[^](DISC)** to select a disc in descending or ascending order.



CD Changer Basics (Continued)

ENGLISH
36



Track Selection

- Press [**>**](TRACK) to advance to the next track.
- Press [**<**](TRACK) to start play from the beginning of the track now playing.
- Press [**>**](TRACK) or [**<**](TRACK) repeatedly to skip the desired number of tracks.



Track Search

- Press and hold [**>**](TRACK) or [**<**](TRACK) for more than 0.5 seconds to advance or reverse through a track.
- Release [**>**](TRACK) or [**<**](TRACK) to resume regular CD play from the released position.

Track Random

Play the tracks of all discs in the changer in random order.

- Press [**4**](RANDOM). All the available tracks on all discs in the magazine will be played in a random sequence.

RANDOM

- Press [**4**](RANDOM) again to cancel.

Disc Random

Play the tracks of the disc you are currently listening to in random order.

- Press and hold [**4**](RANDOM) for more than 2 seconds. All the available tracks on the current disc will be played in a random sequence.

D-RANDOM

- Press and hold [**4**](RANDOM) for more than 2 seconds again to cancel.

Track Scan

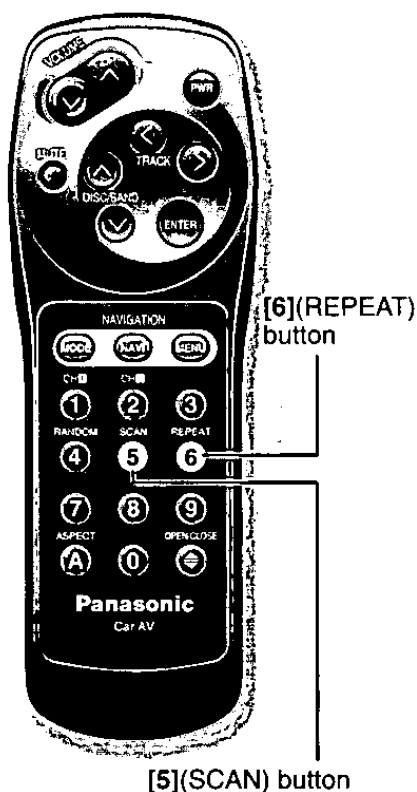
Play the first 10 seconds of each track on the disc in sequential order, starting from the track following the one you are currently listening to.

- Press [5](SCAN). The display blinks and the first 10 seconds of each track on the discs play in sequence.

After all tracks are scanned, resume normal play from the start of the original track.

SCAN

- Press [5](SCAN) again to cancel.



Disc Scan

Play the first 10 seconds of the first track on all discs in the changer in sequential order, starting from the disc following the one you are currently listening to.

- Press and hold [5](SCAN) for more than 2 seconds. The 1st track of all the discs in the magazine is played for 10 seconds each. When all discs are scanned, resume normal play from the start of the original disc.

D-SCAN

- Press and hold [5](SCAN) for more than 2 seconds again to cancel.

Track Repeat

Repeat playing the currently selected track.

- Press [6](REPEAT) to repeat the current selection.

REPEAT

- Press [6](REPEAT) again to cancel.

Disc Repeat

Repeat playing the currently selected disc.

- Press and hold [6](REPEAT) for more than 2 seconds to repeat the current disc selection.

D-REP

- Press and hold [6](REPEAT) for more than 2 seconds again to cancel.

CD Changer Basics (Continued)

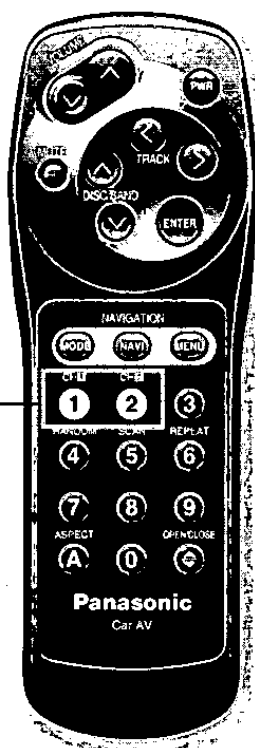
Dual CD Changer

This function lets you control two CD changers through the optional dual CD Changer Control Unit (CA-LA9) (in future use).

Change over between two connected CD changers. [Default: CH-1]

Press [CH1] or [CH2] to select CD changer 1 or CD changer 2. (See page 64.)

[1]([CH1]) button
[2]([CH2]) button



Note:

This function is not available when there is no disc in the connected CD changer or when the magazine is not in the changer.

On the remote control

CH1 : CD changer 1

CH2 : CD changer 2

On the display

CH-1 : CD changer 1

CH-2 : CD changer 2

Auxiliary

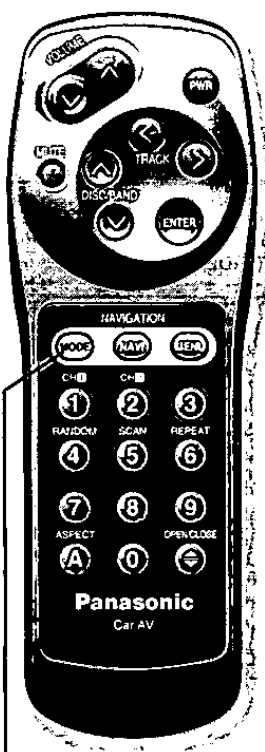
- Watching the image or listening to the sound of a connected external device
- Connect a mobile video deck, video camera, rear-view camera, or car navigation system, for example.

WARNING:

For safe driving, operation is available only in stopped condition with the parking brake engaged. "WARNING" will be displayed, if you try to switch to VTR or AV mode by pressing the [MODE] button while driving.

Notes:

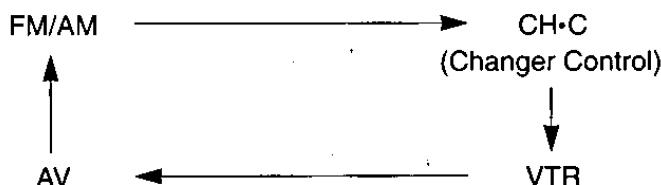
- If your car navigation system is not connected, be sure to set navigation input to RGB on the setting/adjusting menu. (See page 26.)
- If your rear-view camera is not connected, be sure to set the CAMERA-IN to OFF on the setting/adjusting menu. (See page 28.)



[MODE] button

VTR Mode / AV Mode

Press [MODE] to change to VTR mode or AV mode as follows.



The image supplied by a connected external device is displayed. At the same time, the VTR or AV indicator on the front panel of the display unit lights.

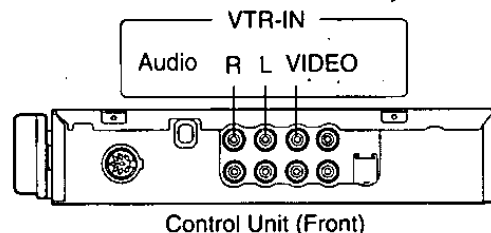
Example of VTR mode



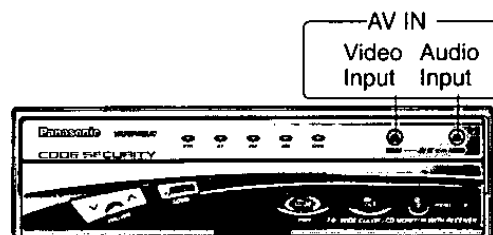
VTR indicator

Notes:

- In VTR mode, the video and audio from the external device connected to the VTR-IN are selected.
- In AV mode, the video and audio from the external device connected to AV IN are selected.
- If navigation mode is ON, only the audio is switched while the video remains as it is. (See page 43.)
- If other than AUTO is selected on the visual setting menu (see page 44), only the audio is switched while the video remains as it is.
- Mode can be changed even when the display unit is in the retracted position.
- The [MODE] button on the front of the display unit remains lit even when power is off.



Control Unit (Front)



Installation Guide



WARNING

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

Any attempt to install this product in a motor vehicle 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 unit 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 "WARNING" statement above.)

- Identify and label the vehicle wires
- Connect the vehicle wires to the wires of the power connector

- Install the unit in the dash board
 - Check the operation of the unit
- If you do encounter problems, please consult your nearest professional installer.

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

Supplied Hardware

No.	Item	Diagram	Qty
①	Trim Plate		1
②	Mounting Collar		1
③	Mounting Spring		2
④	Rubber Pad		1
⑤	Mounting Bolt (5 mmφ)		1
⑥	Flange Nut (6 mmφ)		1
⑦	Washer Assembling Hex. Bolt (5 mmφ x 10 mm)		1
⑧	Washer Assembling Hex. Bolt (6 mmφ x 20 mm)		1
⑨	Rear Support Strap		1
⑩	Binding-Head Screw (5 mmφ x 6 mm)		2
⑪	Flat-Head Screw (5 mmφ x 6 mm)		4

No.	Item	Diagram	Qty
⑫	Spacer		2
⑬	Double-Faced Adhesive Tape		1 set
⑭	Velcro Tape		2
⑮	Remote Control Unit		1
⑯	Battery (UM4)		2
⑰	Power Connector		1
⑱	Reverse Extension Cord		1
⑲	Clip Connector		1
⑳	Wiping Cloth		1
㉑	Ground Lead		1
㉒	Subconnector		1

Before you begin installation, look for the following items included in the packing with your unit.

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

□ Before Installation

Warning

- Do not install the monitor in a location which obstructs driving, visibility or which is prohibited by applicable laws and regulations. If the monitor is installed in a location which obstructs forward visibility or operation of the air bag or other safety equipment or which interferes with operation of the vehicle, it may cause an accident.

- Never use bolts or nuts from the vehicle's safety devices for installation.

If bolts or nuts from the steering wheel, brakes or other safety devices are used for installation of the monitor, it may cause an accident.

- Attach the wires correctly.

If the wiring is not correctly performed, it may cause a fire or an accident. In particular, be sure to run and secure the lead wire so that it does not get tangled with a screw or the moving portion of a seat rail.

- Use with 12 volt DC negative ground vehicle. This unit is only for use with a 12 volt DC negative ground vehicle. It cannot be used in large trucks or diesel vehicles which are 24 volt DC vehicle. If it is used in the wrong type of vehicle, it may cause a fire or an accident.

Caution

- Use the specified fuse.

Be sure to always use the specified fuse. If a fuse other than the specified fuse is used, it may cause a fire or an accident.

- Do not damage the cord by pinching or pulling it. Do not pull or damage the cord. If the cord is not treated properly, it will short out or be severed and may cause a fire or an accident.

□ Required Tools

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

12 V DC
Test Bulb

Electrical
Tape

Side-Cut
Pliers



□ Identify All Leads

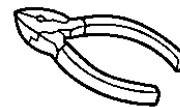
The first step in installation is to identify all the vehicle wires you'll use when hooking up your sound system.

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 vehicle 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.

Installation Guide (Continued)

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

If your vehicle 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 vehicle 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 vehicle is not wired for an audio unit :

Go to the fuse block and find the fuse port for the battery, usually marked BAT.

Speakers

Identify the car speaker leads. There will be two leads for each speaker, usually color coded.

A handy way to identify the speaker leads and the speaker they connect with is to test the leads using a 1.5 V 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 a speaker 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.

❑ Connect All Leads

Now that you have identified all the wires in the vehicle, you're ready to begin connecting them to the stereo unit wires. The connection diagrams on pages 61 to 66 show 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 vehicle chassis.

Speakers

Connect the speaker wires. See the wiring diagram for the proper hookups. Follow the diagram carefully to avoid damaging the speakers and the stereo unit.

The speaker used must be able to handle more than 40 W of audio power. If using an optional audio power, 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 Ω , 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 in doubt about how your car's speakers are wired, please consult with your nearest professional installer.

Motor Antenna

Connect the vehicle 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.

Equipment

Connect any optional equipment such as amplifier, according to the instructions furnished with the equipment. Keep 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 for any equipment you will connect to this unit.

Power

Connect the red power lead to the correct vehicle 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 ②.

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 ②.
3. Turn on the ignition to check the unit for proper operation.

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

Installation Guide (Continued)

❑ Precautions

- In bending the mounting tab of the mounting collar using a screwdriver, for example, be careful not to injure your hands and fingers.
- It is recommended that you wear gloves for installation work to protect yourself from injuries.

This unit should be professionally installed. In case of difficulty, please consult with your nearest professional installer.

1. This unit only operates in a 12-volt DC negative ground system.
2. Before performing installation and wiring, remove the negative (–) terminal of the battery. (See Note below.)

Note:

Do not disconnect the negative battery terminal in vehicles equipped with trip or navigational computers. All electronic memory settings previously registered will be lost. Take extra care to avoid causing short-circuits when installing the unit.

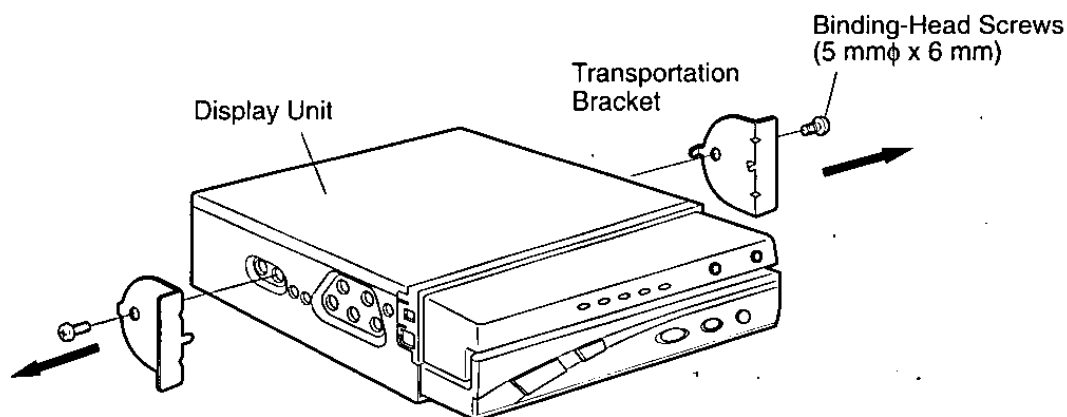
3. Follow the wiring connection diagram carefully to avoid causing damage to the unit.
4. Insulate all exposed cords to prevent short-circuits.
5. Secure all loose cords after installing the unit.
6. Please carefully read the operating and installation instructions of any equipment connected to this unit.

❑ Transportation bracket removal

Be sure to remove the transportation brackets before use (installation).

Use screws (5 mmφ x 6 mm) with washers for installation.

Be careful not to lose these screws.



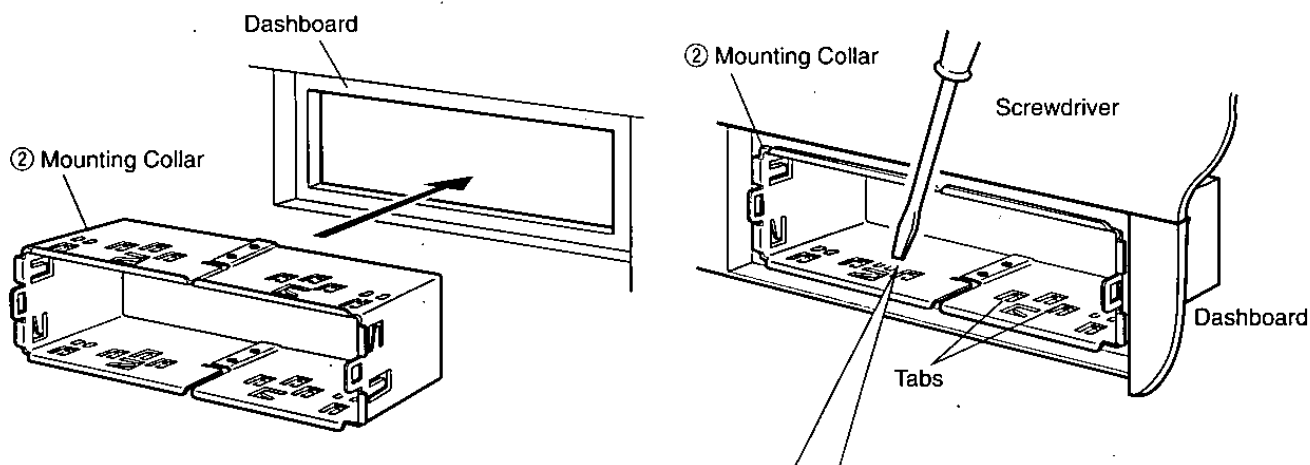
Cautions:

- The rear mounting hole (see page 16) is not tapped. Before use, be sure to tap it with the mounting screw (supplied as an accessory).
- Please follow the law and regulation of your province or country for installation of the unit .

□ Installation

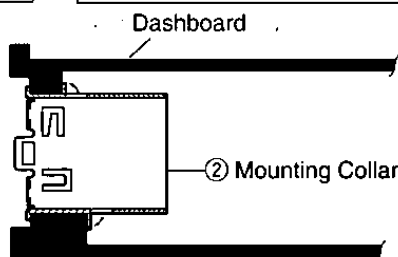
1. Insert the mounting collar ② into the dashboard of the car.

2. Bend the tabs on the mounting collar with a screwdriver or the like (at least at 6 points).

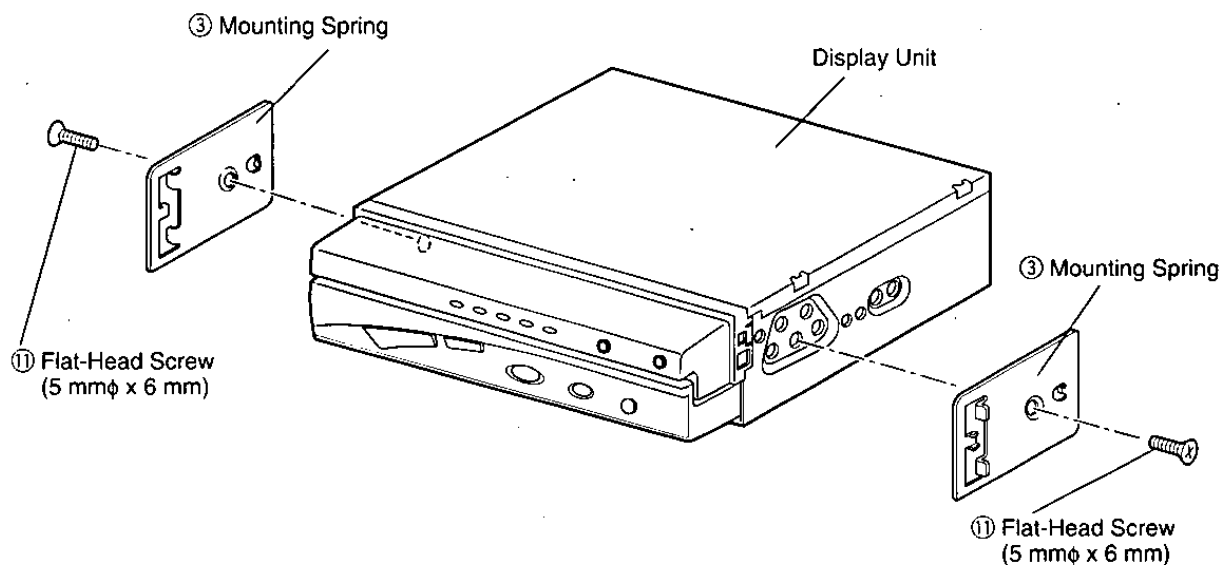


Fastening the Mounting Collar

The tabs to be bent vary depending on the car. Bend them with a screwdriver to fasten the mounting collar ② securely in the dashboard.

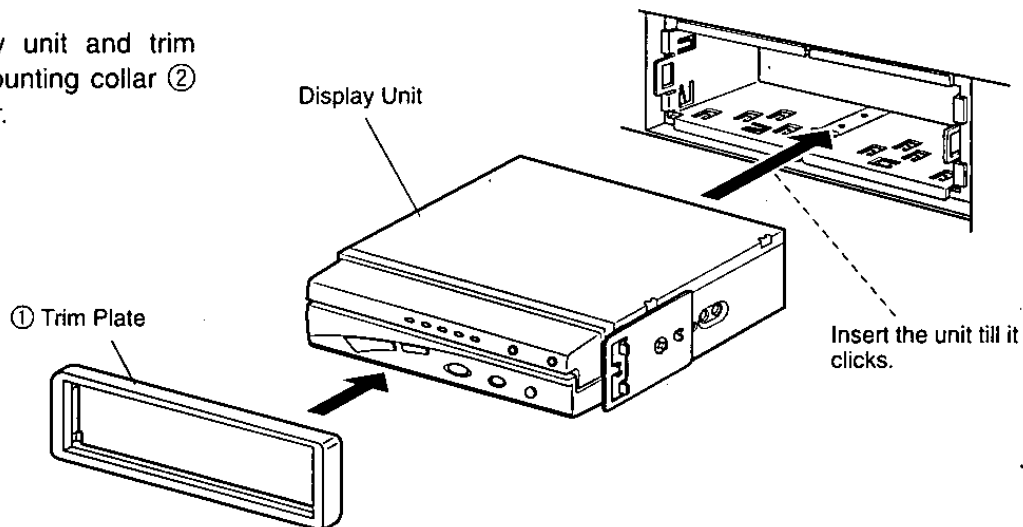


3. Attach the mounting springs ③ to the display unit.



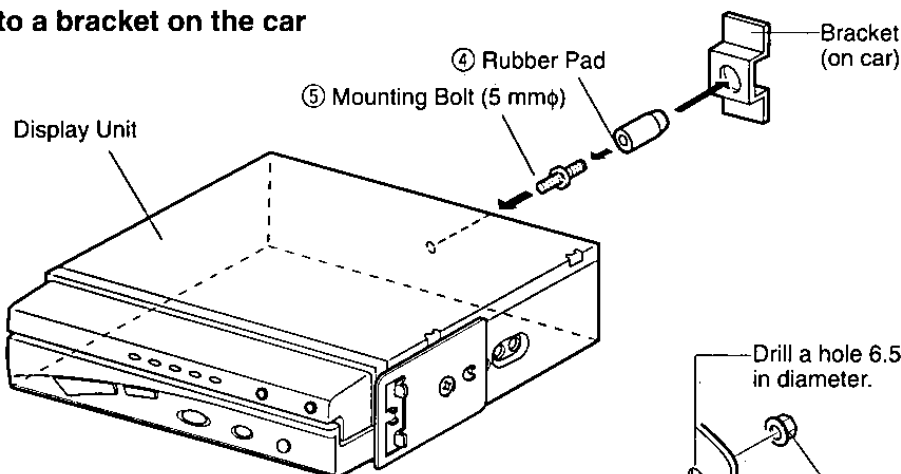
Installation Guide (Continued)

4. Install the display unit and trim plate ① in the mounting collar ② fastened to the car.

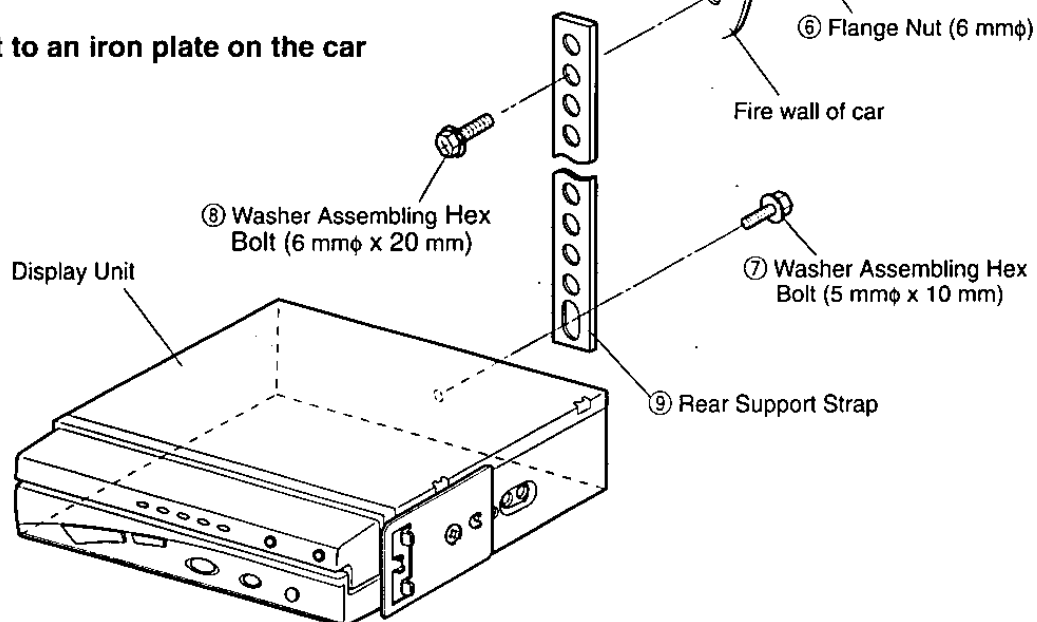


- There are two ways of fastening the rear of the display unit.

• Fastening it to a bracket on the car

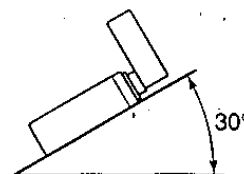


• Fastening it to an iron plate on the car



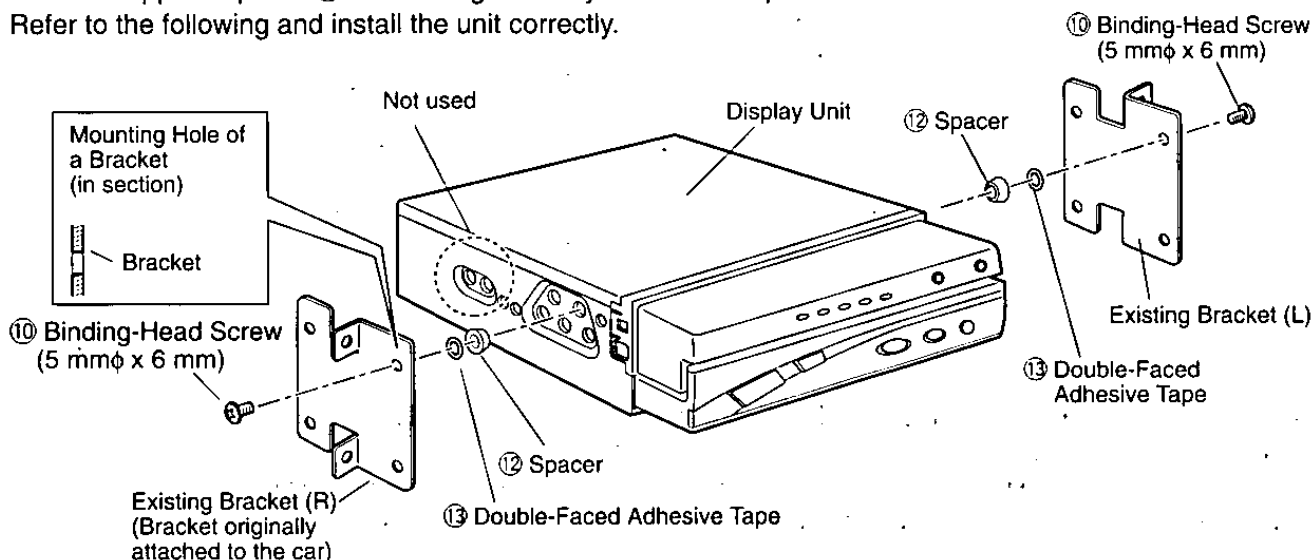
- When mounting the unit in a Toyota car, use the lateral side screw holes marked "T".
- Use the brackets on the car for installation.
- An exclusive kit (optional) may be needed according to the year, model, and type. Please consult a nearby sales agent. An exclusive relay cord (optional) is also available. It facilitates wiring toward the car side.

To maximize performance of this unit, mount it at an angle of within 30 degrees against the horizontal plane.



□ Spacer

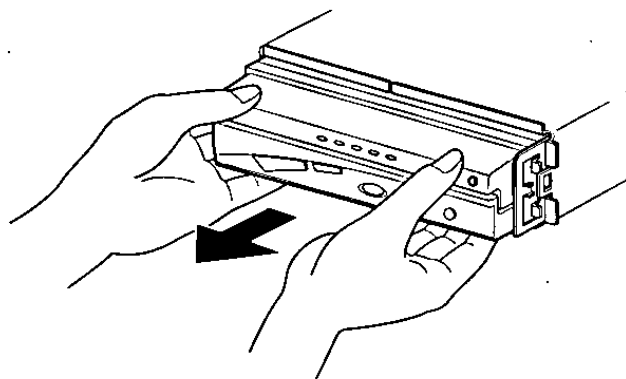
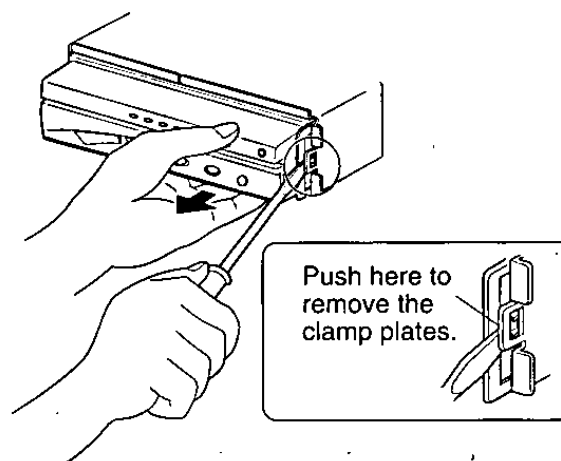
Use the supplied spacer ⑫ if mounting hole of your car is shaped like below. Refer to the following and install the unit correctly.



□ To Remove the Display Unit

- Push the right and left clamp plates inwards, one at a time, and pull the display unit toward yourself.

- After removing the right and left clamp plates, pull the unit with both hands till it comes off.



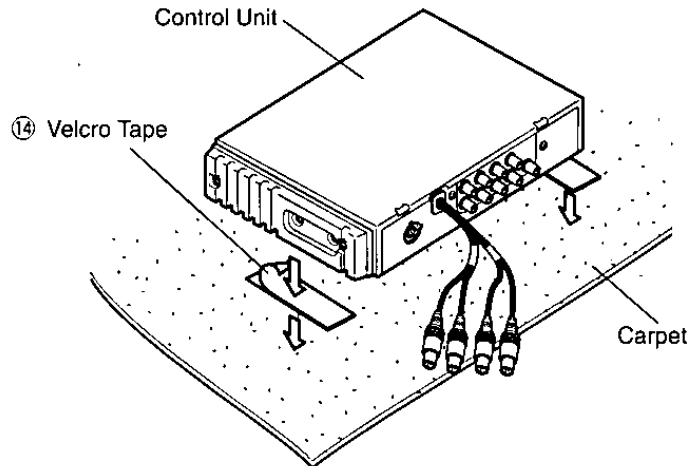
Installation Guide (Continued)

<Mounting the Control Unit>

Mounting Example

Stick velcro tape ⑭ on the carpet and mount the control unit on it.

Note: Some carpet materials may not be suitable for this mounting method. In this case, please contact your nearest Panasonic Servicenter for service.



Notes:

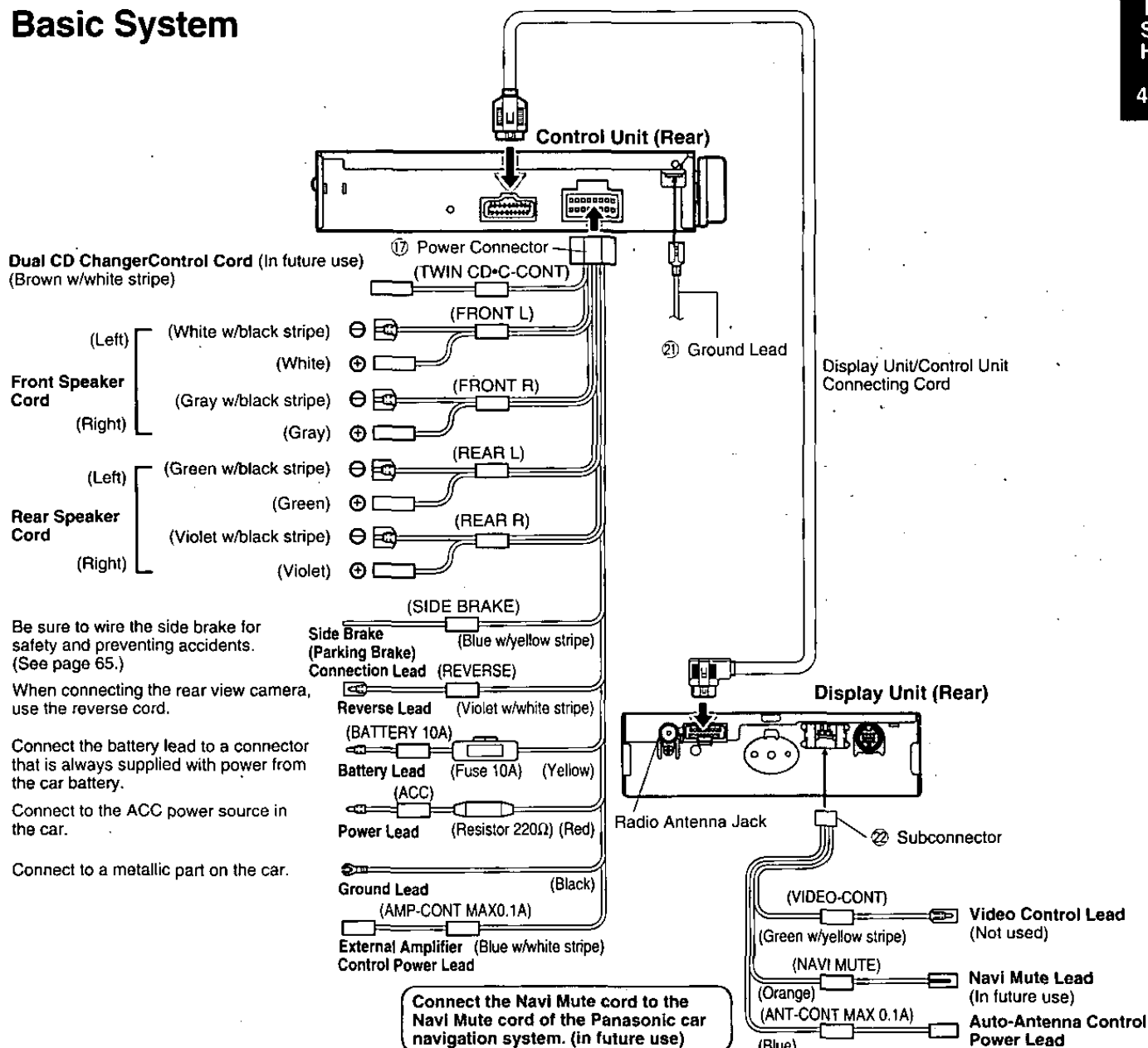
- Never mount the control unit in any of the following locations to avoid damage due to overheating:
 1. Near the heater port.
 2. Places like the dashboard or rear deck, where it may be exposed to direct sunlight.
- Do not mount the control unit near the door, where it could be exposed to rain.

Electrical Connections

Cautions:

- To prevent damage to the unit, be sure to follow the connection diagram as follows.
- Remove about 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 to prevent a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.

Basic System



Connecting the Power Source

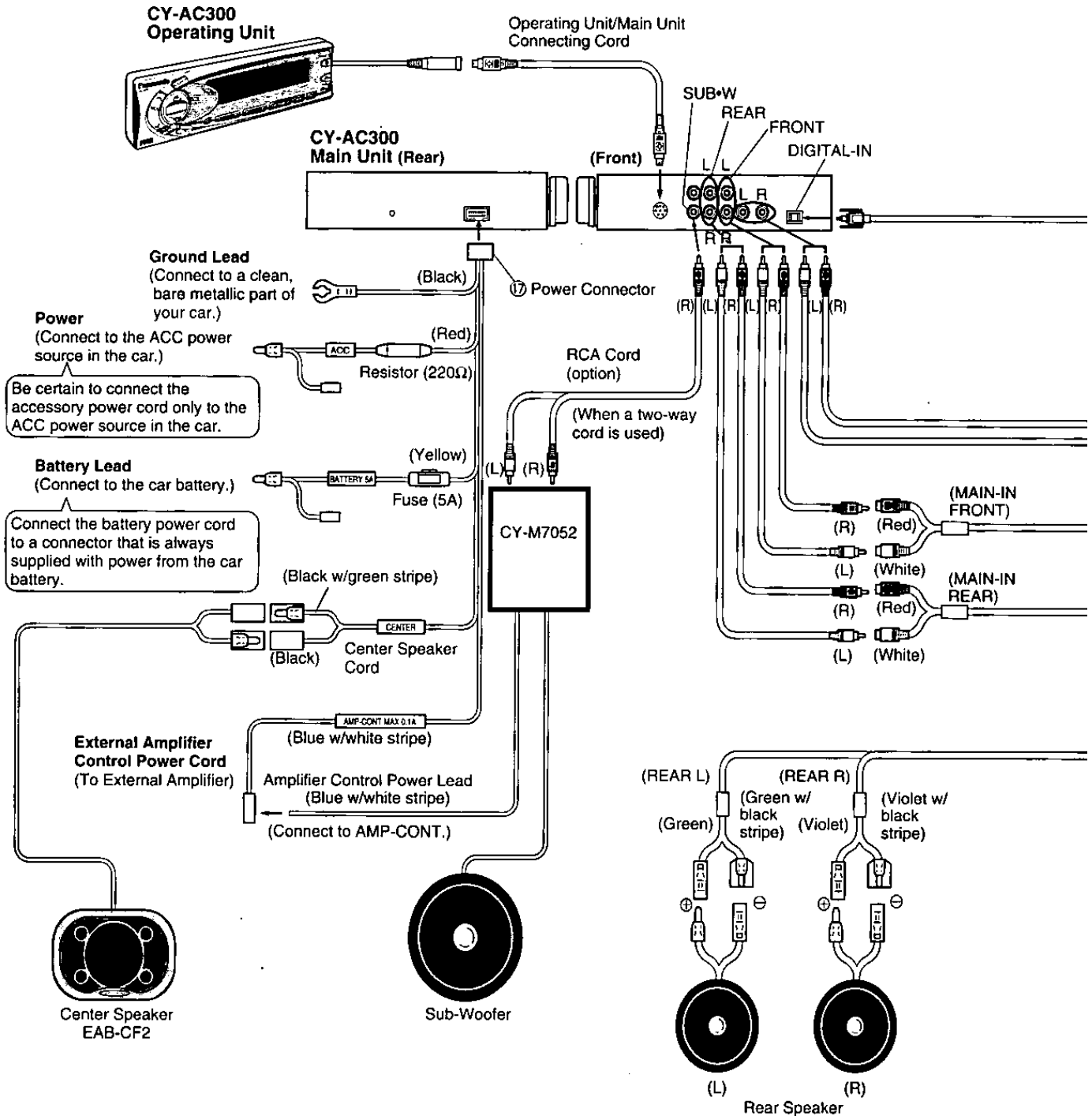
Notes:

- This monitor system is designed only for use with a 12 volt DC motor vehicle.
- Be sure to fully plug in the connector.
- Install the cord to avoid high-temperature spots and secure with clamps and tape.
- When game devices are connected, the image may be unstable.
- When removing the DIN plug, be sure to press the clip.

Electrical Connections (Continued)

Example 1: Advanced System

ENGLISH
50

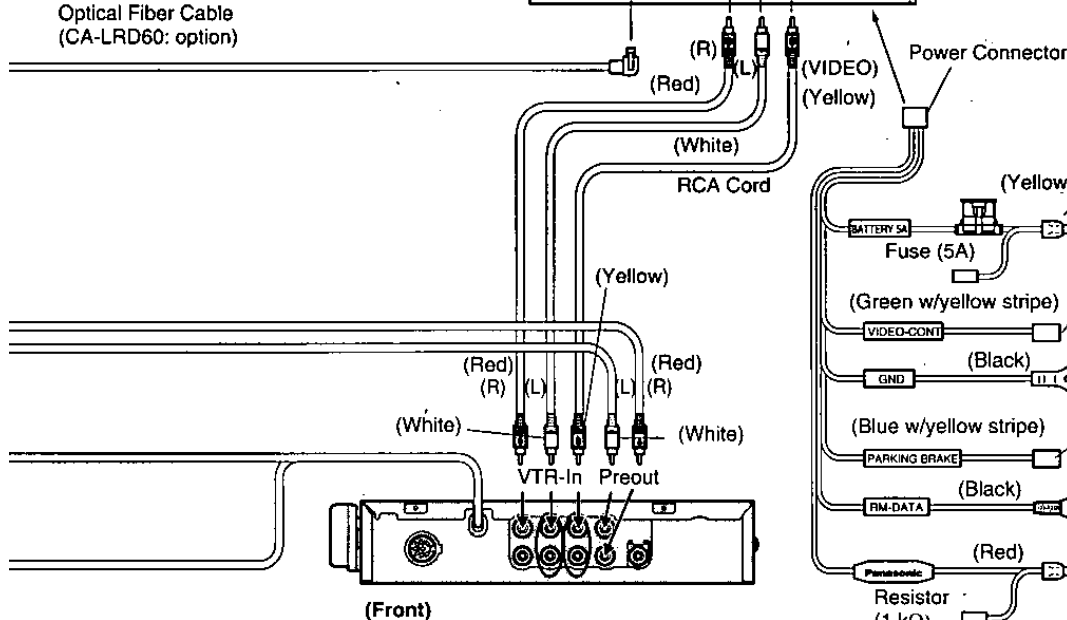
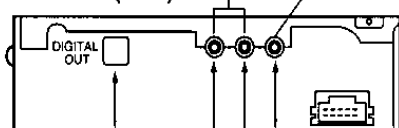


Notes on handling optical fiber cable
 • Do not bend the cable sharply.
 • Do not allow the cable to be damaged by getting it caught in the door, placing a heavy object on it, etc.

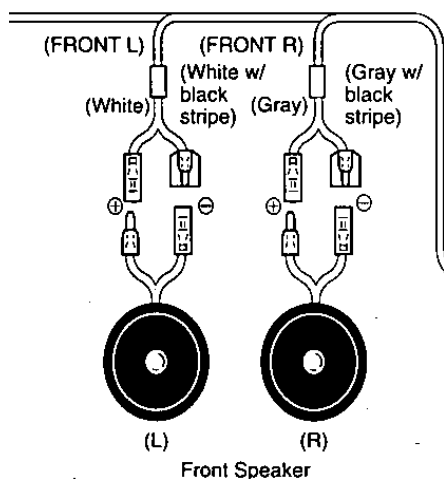
Optical Fiber Cable
 (CA-LRD60: option)

CX-DV1500 (Rear)

AUDIO VIDEO



CQ-VA707WEUC
 Control Unit



For the connection of the other leads,
 see Basic System on page 61.

17 Power Connector

CQ-VA707WEUC
 Display Unit
 (Rear)

22 Subconnector

Video Control Lead
 Not used

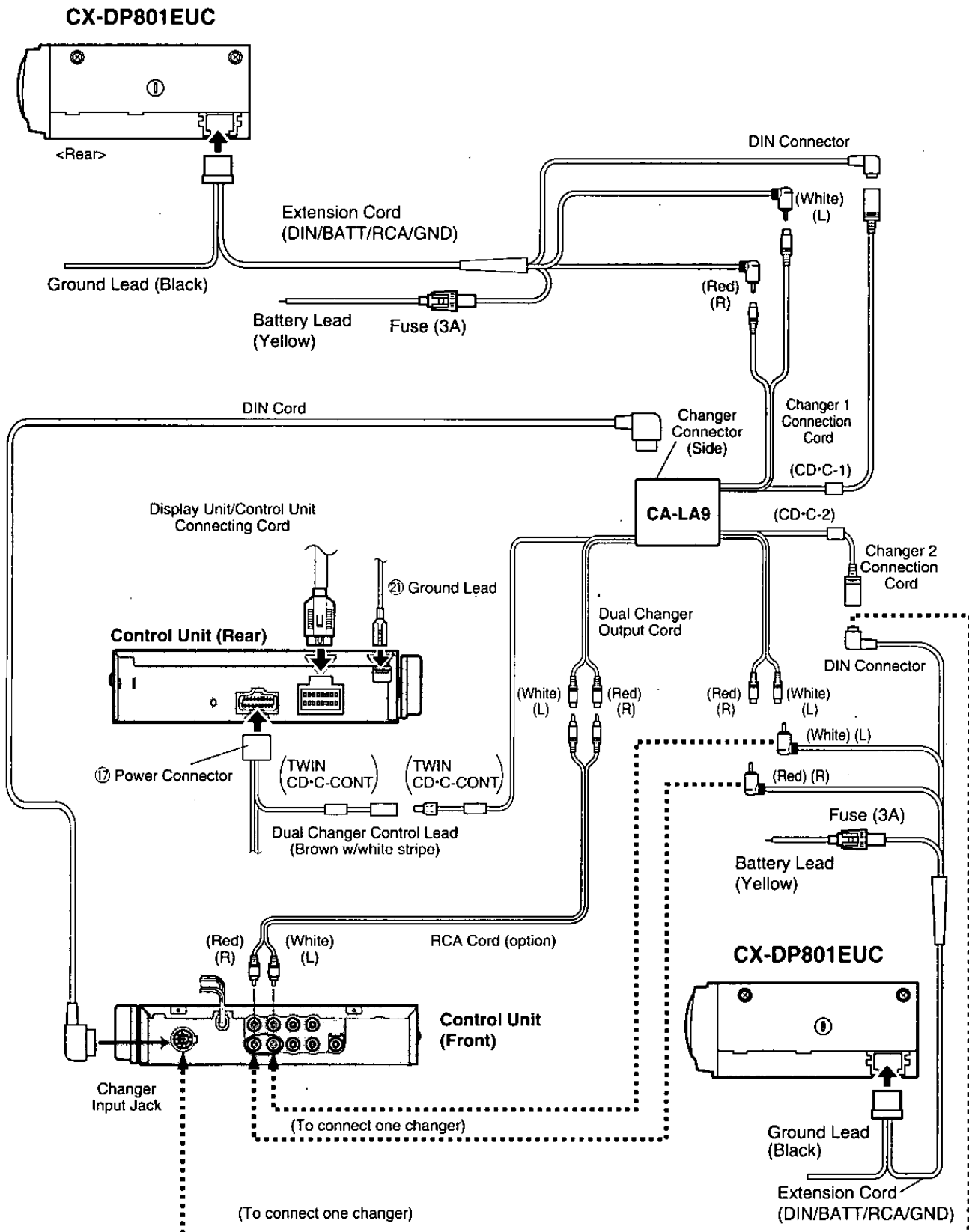
Do not connect to the Video
 Control Lead of CX-DV1500.

When connected to the external
 amplifier control power lead
 (AMP-CONT) of CY-AC300,
 instead of connecting to the ACC
 power source, the power of unit
 can be linked to that of
 CY-AC300.

Electrical Connections (Continued)

Example 2: Connection with CD Changer

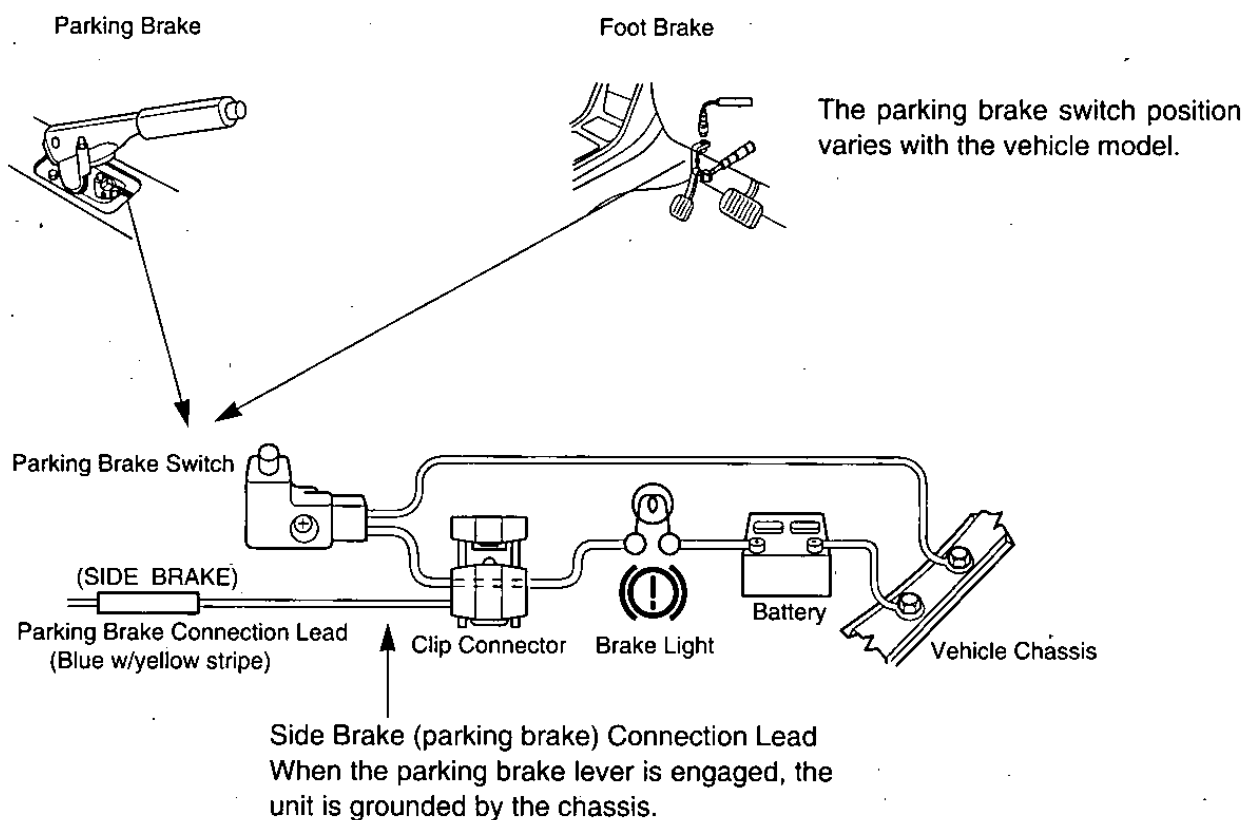
- When one changer is installed, connect as shown below by the bold dotted line (—•••••).
- To connect two changers, you will need the optional dual changer control unit (CA-LA9) (in future use).



□ Connecting the Parking Brake Connection Lead

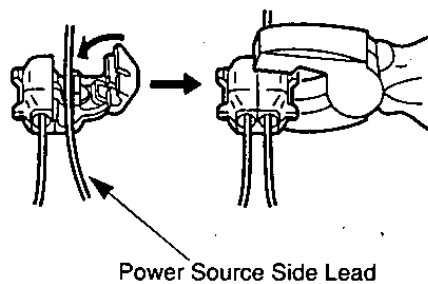
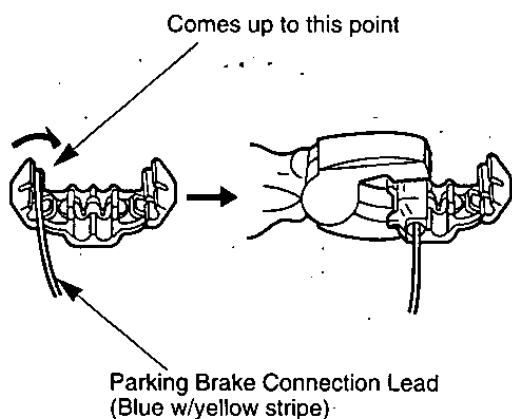
Caution:

For safety, be sure to ask your nearest professional installer to do this connection.



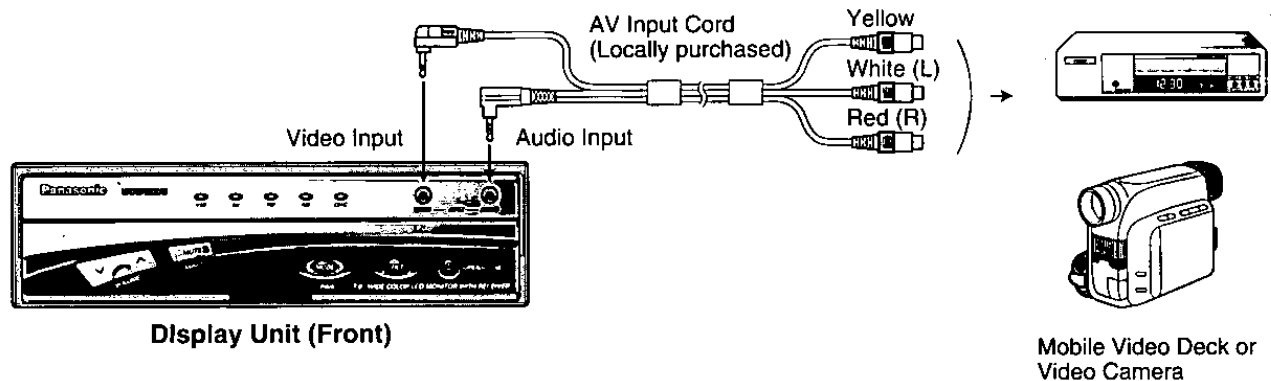
① Attach a clip connector to the end of the parking brake connection lead.

② The clip connector is connected to the power source side lead of the parking brake lever.



Electrical Connections (Continued)

□ How to Connect to a Mobile Video Deck or Video Camera



Note:

When AV input cord is connected to the front face of the display unit, the display positioning may be partly restricted.

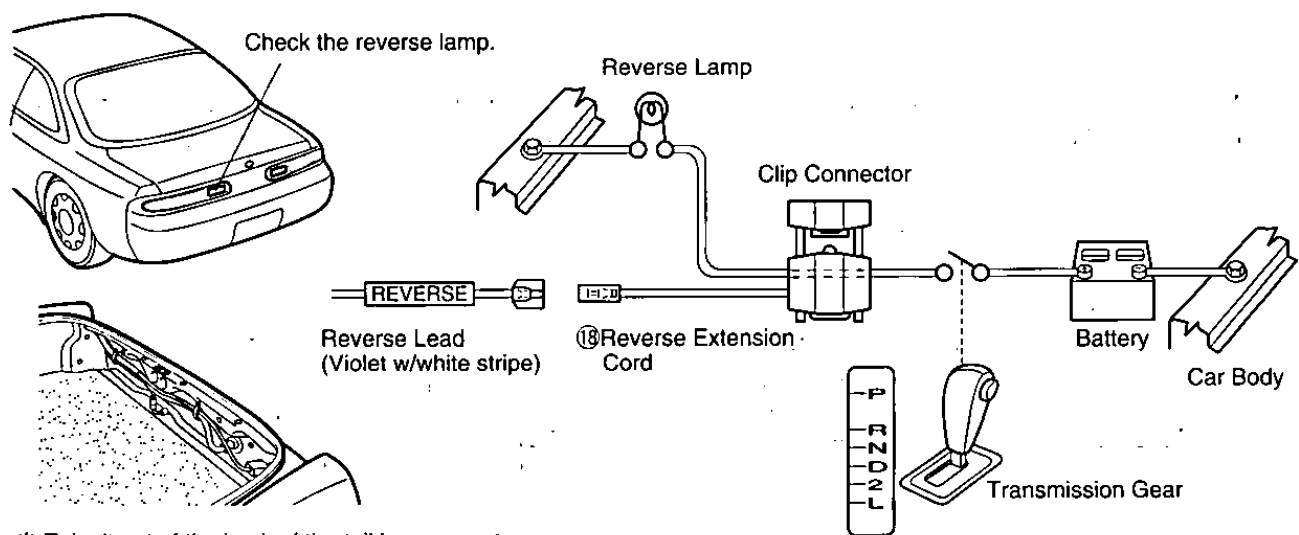
Caution:

Be sure to use L-shaped connectors to connect the display unit.

□ Connecting the Reverse Cord

※ In case using an optional rear-view camera, the reverse lead must be connected.

- Connect the reverse lead (violet w/white stripe) to the positive (+) lead of the reverse lamp (the lamp with a clear lens that lights when the transmission gear is shifted into the reverse position).



Note:

Connect the reverse lead after cutting the terminal at the end.

Troubleshooting

❑ Maintenance

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

❑ When Something Doesn't Work

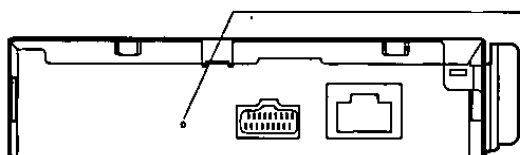
Check the charts for possible causes and solutions to any problem you might be experiencing. Some simple checks or minor adjustments may eliminate the problem.

❑ Product Servicing

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

❑ Replacing the Fuse

Use fuses of the same specified rating 10 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 Servicer for service.



Control Unit (Rear)

Reset Switch

Press the reset switch when any operation buttons do not function. If the unit does not become restored even after pressing the switch, contact your nearest Panasonic Servicer for service.

Caution:

If you press this switch with a sturdy, pointed object, initial setting is restored. However, all memorized settings are cancelled at that time.

Troubleshooting (continued)

■ Error Display Message (CD Changer)

Display	Possible Cause	Problem	Probable Solution
— E1 —	Disc dirty or wrong side up	Next disc is automatically selected.	Eject magazine and check the disc.
— E2 —	Disc damaged		
— E3 —	Receiver fails to operate	—	Press EJECT button on changer. If trouble is unremedied, press the reset button on changer. Trouble still persists, ask your dealer or nearest service center for repair.
NO DISC	No disc at all in magazine	—	Insert discs into magazine.

Note:

Display contents and operations vary in part from one changer to another (due to the differences in changer specifications). For details, refer to the manual for the changer you are using.

Troubleshooting Tips

■ Power

Problem	Possible Cause	Probable Solution
Unit won't turn on.	Dead vehicle battery Ignition not on	Charge vehicle battery. Turn ignition to On or Acc.
	Connections not made correctly	Check connections.
	Bad power battery line connection	Connect battery cables to terminals that are always live.
	Bad accessory line connection	Connect accessory power cord with ACC power supply of the car.
	Bad ground lead connection	Connect ground lead to a metallic part of your car.
	Fuse burned out	Replace it with one of the specified rating.

■ General

Problem	Possible Cause	Probable Solution
No sound	Volume is too low.	Raise volume.
	Connections not made correctly	Check connections.
	Condensation	Leave for some time before use.
No sound from built-in speakers	Volume is too low.	Raise navigation volume.
	Navigation volume set to 0	Set navigation volume to higher than 0.
No sound from left, right, front or rear speaker	Left-right, front-rear balance is off.	Properly adjust BAL/FAD.
	Connections not made correctly	Check connections.
Right and left sounds reversed in stereo	Speaker wires are connected incorrectly.	Connect speaker wires correctly.
Tilt angles and forward-backward position of display unit cannot be adjusted.	Obstacle is in the way.	Be careful not to let the cord be caught, and use the display unit in a position free of contact with obstacles.
Display unit cannot be retracted.	Display unit is not in the neutral position of its lateral angle.	Return the display unit to the neutral position of its lateral angle.

■ Display

Problem	Possible Cause	Probable Solution
No image	Dimmer, contrast, bright, color, tint not adjusted properly.	Adjust each of these screen adjustment items (dimmer, contrast, bright, color, tint).
Screen too dark		
Screen whitish		
Tone not good, colors too light		
 Red, blue or green spot	This is a characteristic of liquid crystal panels and is not a problem.	
Screen brightness not consistent	Dimmer is set to AUTO (Screen brightness automatically changes with ambient light intensity).	No problem Set dimmer to any of 1 to 4, then screen brightness will not be affected by ambient light intensity.

Troubleshooting (continued)

■ VTR, AV, CAMERA (Video, Video Camera, Rear View Camera)

Problem	Possible Cause	Probable Solution
No image from VTR or video camera	VTR or video camera is not correctly connected. Correct mode is not selected.	Connect VTR or video camera correctly, and change the mode to correspond to the device connected.
No image from rear-view camera	Rear-view camera is not correctly connected.	Connect rear-view camera correctly.
	Camera input is not set correctly.	Set camera input correctly.
Colors are not correctly reproduced.	Display brightness and colors are not correctly adjusted.	Adjust display brightness and colors.

■ Radio

Problem	Possible Cause	Probable Solution
Much noise in FM stereo and monaural broadcasts	Station is too far or signals are too weak.	Tune in to a station emitting strong signals.
Presettings lost from memory	Bad power battery line connection.	Connect battery cables to terminals that are always live.
	Fuse for battery power cables is blown.	Replace it with one of the specified rating.

■ Remote Control

Problem	Possible Cause	Probable Solution
No operation by pressing buttons	Battery inserted in wrong direction.	Insert a battery correctly.
	Battery has run down.	Replace battery.
	Remote control not in correct direction.	Direct the remote control at the remote control sensor on the display unit.

Maintenance

❑ To prevent damage to the system exterior

Do not apply pesticides, benzine, thinner or other volatile substances to the unit.

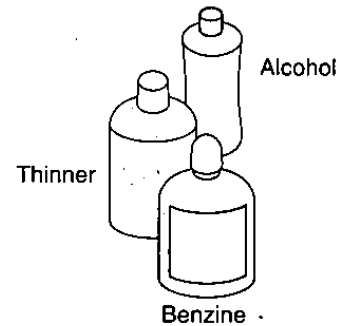
The cabinet surface primarily consists of plastic materials.

Do not wipe with benzine, thinner or similar substances because this will result in discoloration or removal of the paint.

When a cloth with a cleansing chemical is used, follow the caution points.

Do not leave the unit in contact with rubber or vinyl products for long periods of time.

Do not use cleansers which have polishing granules because this could damage the surface of the unit.



❑ Clean dirt by wiping lightly with a soft cloth

When the unit is dirty, wipe the surface of the display using Wiping Cloth ⑳, an accessory to the unit.

■ Without a Wiping Cloth

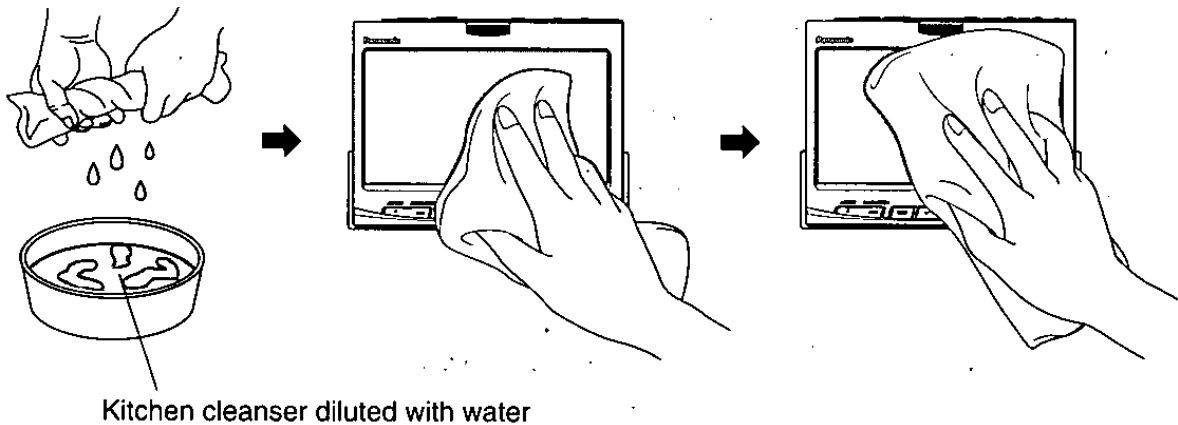
When the unit is dirty, wipe with a well-wrung cloth dipped in a liquid dishwashing detergent (neutral) diluted with water and then go over the same surface with a dry cloth.

(Since there is the possibility of water drops getting inside of the unit, do not directly apply cleanser to the surface.)

Wring well.

Wipe lightly.

Go over the same surface with a dry cloth.



Kitchen cleanser diluted with water

Caution:

If water drops or similar wet substances get inside the monitor, it may cause a malfunction.

Specifications

General

Power Supply	: 12 V DC (11 V - 16 V), test voltage 14.4 V negative ground
Current Consumption	: 7 A (at rated VTR operation output)
Audio Input Sensitivity	: 0.5 Vrms (VTR)
Pre-output Voltage	: 2.0 V (CD Changer Play Mode; 1 kHz 0 dB)
Video input signal	: Composite video signal, 1.0 Vp-p (75 Ω)
Video output signal	: Composite video signal, 1.0 Vp-p (75 Ω)
Dimensions (WxHxD)	
Display Unit	: 7" x 2" x 6 ⁵ / ₁₆ " (178 x 50 x 160 mm)
Control Unit	: 8 ⁷ / ₁₆ " x 1 ⁵ / ₈ " x 5 ⁷ / ₈ " (215 x 41 x 150 mm)
Weight	
Display Unit	: 4 lbs. 5 oz. (2.0 kg)
Control Unit	: 2 lbs. 10 oz. (1.2 kg)

Display Unit

Liquid Crystal Panel	: 7" wide
Screen Dimensions (WxHxD)	: 6 ¹ / ₈ " x 3 ⁷ / ₁₆ " x 7" (156 x 87 x 178 mm)
Number of Pixels	: 336,960 pixels (234 vertical x 480 horizontal x 3)
Valid Pixel Ratio	: over 99.99 %
Display Method	: Transparent color filter format
Drive Method	: TFT (Thin Film Transistor) active matrix format
Light Source	: Internal light (Built-in small fluorescent lamp)
Speaker	: 1 ⁷ / ₁₆ " (36 mm) Round speaker (one)
Sound Output	: 0.7 W

Control Unit

FM Stereo Radio

Frequency range	: 87.9 – 107.9 MHz
Usable sensitivity	: 12 dBf.
S/N 50 dB quieting sensitivity	: 15.2 dBf.
Total harmonic distortion (monaural)	
	: 0.3% (1 kHz)
S/N ratio	: 70 dB
Frequency response	: 20 – 15,000 Hz $\pm$ 3 dB
Stereo separation	: 42 dB (1 kHz)
Effective selectivity	: 75 dB

AM Radio

Frequency range	: 530 – 1,710 kHz
Usable sensitivity	: 25 dB/ μ V (S/N 20 dB)
Image rejection ratio	: 65 dB

※ Above specifications comply with EIA standards.

Note:

Specifications and design are subject to modification without notice due to improvements in technology.

Memorandum

Blank memorandum template with horizontal lines for writing.

**Panasonic Consumer Electronics
Company, Division of Matsushita
Electric Corporation of America**
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