Pioneer sound.vision.soul

Hardware Manual

ENGLISH

DVD Navigation Unit

Introduction





Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

• Start your volume control at a low setting.

• Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

- Once you have established a comfortable sound level:
- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel

- Level Example
 - 30 Quiet library, soft whispers
- 40 Living room, refrigerator, bedroom away from traffic
- 50 Light traffic, normal conversation, quiet office
- 60 Air conditioner at 20 feet, sewing machine
- 70 Vacuum cleaner, hair dryer, noisy restaurant
- 80 Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

- 90 Subway, motorcycle, truck traffic, lawn mower
- 100 Garbage truck, chain saw, pneumatic drill
- 120 Rock band concert in front of speakers, thunderclap
- 140 Gunshot blast, jet plane
- 180 Rocket launching pad

Information courtesy of the Deafness Research Foundation.





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Manual Overview

This manual mainly describes hardware-related information such as the part names of the Navigation System or precautions for use. Please read this manual and all other enclosed manuals before using your Navigation System. The following issues are described in each chapter:

How to use this manual

Introduction

This chapter describes precautions for the use of the Navigation System.

How to Use Remote Control and Names of Parts

This section describes the functions of the Steering Remote Control used to operate the Navigation System. In addition, this chapter describes matters that are important to know before using the Navigation System, such as the names of each part, inserting/ejecting discs, or how to set a PC card.

Appendix

This section describes how to handle the Navigation System or discs and the specifications of the Navigation System.

Terminology

Before moving on, take a few minutes to read the following information about the conventions used in this manual. Familiarity with these conventions will help you greatly as you learn how to use your new equipment.

- Buttons on your Remote Control or display are referred to as:
 - e.g.) $\pmb{\mathsf{NAVI}}$ button, $\pmb{\mathsf{NAVI}} \ \pmb{\mathsf{MENU}}$ button.
- Items in various menus or touch keys displayed on the screen are referred to like this: e.g.) "**Destination**", "**Settings**".
- Extra information, alternative use and other notes are presented like this:

e.g.)

- PC card can be set or removed regardless of the power ON/OFF of the main unit (ON/ OFF of the engine).
- The references are indicated like this: e.g.)
 - \supset "Resetting the System" \rightarrow Page 11

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Important Safety Information

Before using your Navigation System, be sure to read and fully understand the following safety information:

- Read the entire manual before operating this Navigation System.
- The navigation features of this unit are intended solely as an aid to you in the operation of your vehicle. They are not substitutes for your attentiveness, judgment, and care when driving.
- Do not operate this Navigation System if doing so in any way will divert your attention from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating the system or reading the display, park your vehicle in a safe location and make necessary adjustments.
- Never allow others to use the system unless they have read and understood the operating instructions.
- Never use this Navigation System to route to hospitals, police stations, or similar facilities in an emergency. Please call 911.
- Route and guidance information displayed by this equipment is for reference purposes only. It may not accurately reflect the latest permissible routes, road conditions, one way streets, road closures, or traffic restrictions.
- Traffic restrictions and advisories currently in force should always take precedence over guidance given by this product. Always obey current traffic restrictions, even if this product provides contrary advice.
- Failure to input correct information about the local time may result in the product providing improper routing and guidance instructions.
- Never set the volume of your Navigation System so high that you cannot hear outside traffic and emergency vehicles. Please refer to page 1 for safe hearing guidelines.
- To promote safety, certain functions are disabled unless the parking brake is on.
- The data encoded in the disc for this product is the intellectual property of the provider, and the provider is responsible for such content.
- Keep this manual handy as a reference for operating procedures and safety information.
- Pay close attention to all warnings in this manual and follow the instructions carefully.

- Do not install the display and the navigation unit where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including air bags, hazard lamp buttons or (iii) impair the driver's ability to safely operate the vehicle.
- Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- Using the most current map DVDs will allow for most accurate destination mapping.
 Update DVDs are available through your local Pioneer dealer.
- Never use headphones while driving.

🖄 WARNING

 Do not attempt to install or service your navigation unit by yourself. Installation or servicing of the navigation unit by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.

Notes Before Using the System and Additional Safety Information

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

For Canadian model

This Class B digital apparatus complies with Canadian ICES-003.

Important (Serial Number:)

The serial number of this device is located on the bottom of this product. For your own security and convenience, be sure to record this number on the enclosed warranty card.

Precaution

CAUTION:	USE OF CONTROL OR ADJUST- MENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIA- TION EXPOSURE.
CAUTION:	THE USE OF OPTICAL INSTRU- MENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

A WARNING

- LIGHT GREEN LEAD AT POWER CON-NECTOR IS DESIGNED TO DETECT PAR-KED STATUS AND MUST BE CONNECTED TO THE POWER SUPPLY SIDE OF THE PARKING BRAKE SWITCH. IMPROPER CONNECTION OR USE OF THIS LEAD MAY VIOLATE APPLICABLE LAW AND MAY RESULT IN SERIOUS INJURY OR DAMAGE.
- Protect this product from moisture.
- If the battery is disconnected or discharged, the memory will be erased and must be reprogrammed.

A WARNING

- Handling the cord on this product or cords associated with accessories sold with the product will expose you to lead, a chemical known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. Wash hands after handling.
- This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

Parking brake interlock

Certain functions offered by this Navigation System could be dangerous if used while driving. To prevent them being used while in motion, there is an interlock with your vehicle's parking brake. If you attempt to use these functions during driving, it may be inoperable. If so, stop in a safe place, apply the parking brake, then operate.

To avoid battery exhaustion

Be sure to run the vehicle engine while using this unit. Using this unit without running the engine can result in battery drainage.

About voice guidance

There may be no voice guidance depending on a combined unit (e.g. multi-channel proccessors). If your display has the GUIDE SP OUT jack that can output the voice guidance, connect the external speaker to the display.

AVH-P6500DVD:

When combining multi-channel processors, Pioneer external speaker must be connected to the SP-OUT jack (3.5 ot m MINI JACK, 1 W max [8 Ω]) on the navigation's back.

After-sales service for Pioneer products

Please contact the dealer or distributor from where you purchased the product for its aftersales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below:

Please do not ship your product to the companies at the addresses listed below for repair without making advance contact.

U.S.A Pioneer Electronics (USA) Inc. CUSTOMER SUPPORT DIVISION P.O. Box 1760 Long Beach, CA 90801-1760 800 421-1404 CANADA Pioneer Electronics of Canada, Inc. CUSTOMER SATISFACTION DEPARTMENT 300 Allstate Parkway Markham, Ontario L3R OP2 1-877-283-5901

For warranty information, please see the Limited Warranty sheet included with your product.

Product registration

Visit us at the following site:



- Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
- 2. Receive updates on the latest products and technologies.
- Download owner's manuals, order product catalogues, research new products, and much more.

Update DVD

 Updated Navigation DVDs are available for purchase from your local Pioneer dealer that includes the most current map and point of interest information. Contact your local Pioneer dealer for details.

About DVD map disc

You can only use discs intended for use with this product. Use only discs approved by Pioneer.

⊃ For details on other discs \rightarrow Page 11

Chapter 1

How to Use Remote Control and Names of Parts

Preparing the Remote Control

Some navigation operations can be performed with the Steering Remote Control provided. Prior to using the remote control, refer to the following to install the battery.

Inserting the battery for the Remote Control

The CR2032 (3V) lithium battery is used with the remote control.

Steering Remote

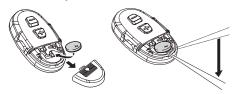
When using the remote control for the first time:

Pull out the film in between the cover and the remote contol.



When replacing the battery with a new one:

Remove the cover on the back of the remote control and insert the lithium battery with the positive side (+) up. When changing the battery, use a probe with a fine non-metallic tip to remove the lithium battery.



A WARNING

• Keep the lithium battery out of reach of children. Should the battery be swallowed, immediately consult a doctor.

A CAUTION

- Do not recharge, disassemble, heat or dispose of the battery in fire.
- Use a CR2032 (3V) lithium battery only. Never use other types of battery with this unit.
- Do not handle the battery with metallic tools.
- Do not store the lithium battery with metallic materials.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.
- Always check carefully that you are loading the battery with its (+) and (-) poles facing in the proper directions.
- Remove the battery if remote control is not to be used for a month or longer.
- In the event of battery leakage, wipe the remote control completely clean and install a new battery.

Getting to Know the Components and What They Do

Before using this unit, get to know the name of each component and how it is used.

The Steering Remote Control

Operation mode

By switching the Operation mode (Main mode, DIN mode, Navigation mode) you can use one remote control to operate different equipment.

Main mode :

Operates Pioneer AV Head Unit (e.g. AVH-P7500DVD, AVH-P6600DVD, AVH-P6500DVD, etc.)

DIN mode :

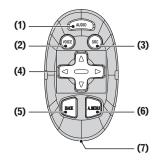
Other Pioneer Head Unit operation **Navigation mode :** Navigation operation

First of all, set the Operation mode switching method. The Operation mode switching changes in accordance with the settings as below.

	Switching method	Setting method
Setting A	Main mode	Press the
	1	VOICE button
	Navigation	while pressing
	mode	the A.MENU
		button.
Setting B	DIN mode	Press the BACK
	1	button while
	Navigation	pressing the
	mode	A.MENU button.
Setting C	Navigation	Press the SRC
	mode only	(SOURCE) but-
		ton while press-
		ing the A.MENU
		button.

When using with the Pioneer AV Head Unit, set to Setting A. If you wish to operate another Pioneer Head Unit, set to Setting B. If you wish to use Navigation operation only, set to Setting C. ("Setting A" is default or factory setting.)

Main mode and DIN mode operation



(1) NAVI/AUDIO button

Pressing this button switches the Operation mode.

(2) VOICE button

You can use the **VOICE** button to start voice recognition, allowing you to operate the Navigation System by speech.

(3) SRC (SOURCE) button

Switches between sources and switches power ON/OFF. (Depending on the connected units, operation may differ slightly. Refer to "Switching the Sources" in the connected unit's instructions.)

(4) \blacktriangle , \bigtriangledown , \triangleleft , \blacktriangleright button

Operates the same as the Head Unit's ▲, ▼, ◄, ▶ button or the Joystick.

(5) BACK button

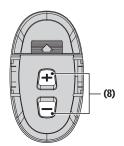
Main mode :	BACK button
	Return to the previous screen.
DIN mode :	FUNCTION button
	FUNCTION menu is displayed.

(6) A.MENU button

Main mode :	AUDIO MENU button
	Display the menu.
DIN mode :	AUDIO button
	AUDIO menu is displayed.

(7) Transmitter

This transmits the remote control signals.



(8) +/- button

The Pioneer Head Unit's sound volume can be adjusted.

Navigation mode (navigation operation)

☐ The **SRC (SOURCE)** button, and **◄**/► buttons are not used in Navigation mode.

(1) NAVI/AUDIO button

See Main/DIN mode. (Setting C does not need this button.)

(2) VOICE button

See Main/DIN mode.

(4) **▲**/▼ button

The map can be enlarged or reduced. If a menu list extends over several pages, switch to the previous page or the next page.

(5) POS button

Press this button to view the map or return to guidance. Also, when the map is scrolling, pressing this button returns you to the display of the map of your surroundings.

(6) GUIDE/TRAFFIC button

Press this button if you want to hear the voice guidance again.

(7) Transmitter

See Main/DIN mode.

(8) +/- button

The volume of the navigation guide voice can be adjusted.

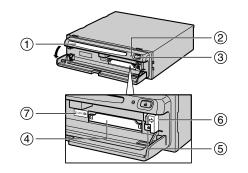
Microphone



(1) Microphone

After pressing the **VOICE** button to start voice operation, this microphone hears your commands.

Main unit



(1) Disc loading slot

(2) Reset button

If the system malfunctions, reset it by pressing this recessed button with a ballpoint pen or similar pointed object.

 \supset "Resetting the System" \rightarrow Page 11

(3) Disc eject button

(4) PC card slot

(5) PC card eject button Remove the PC card by pressing this button.

(6) PC card lock lever

This lever is used to remove the PC card.

(7) PC card lock lamp

The red light goes on when the PC card is inserted and a proper connection is made.

How to Use Remote Control and Names of Parts

Setting and removing the disc

Insert the disc in the Disc loading slot with the label-side up. To remove the disc, press the Disc eject button on the right-hand side of the Disc loading slot.

Do not try to use discs other than a disc designed for this system. Please use only the disc specified by Pioneer.

Setting the PC card

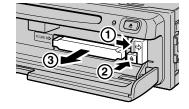
Open the cover at the front of the main unit. Hold the PC card label-side up: the arrow shows the direction of insertion. Insert the card firmly until the PC card eject button pops out. If the main unit power is on, the PC card lock lamp changes from green to red, showing that the PC card is inserted correctly and ready for use.

Removing the PC Card

A CAUTION

• Do not remove the PC card while the PC card lock lamp is red. It may damage the main unit of the Navigation System or the PC card.

Open the cover on the front of the main unit. Slide the PC card lock lever to the right (1), and hold it there. Check that the PC card lock lamp has changed to green, and then press the PC card eject button (2). (Keep holding the PC card lock lever to the right until the PC card is removed completely.)



- PC card can be set or removed regardless of the power ON/OFF of the main unit (ON/OFF of the engine).
- You can only use a card that conforms to the PCMCIA Type II (5V) standard. If you attempt to use a card complying with a different standard, the card slot may be damaged, or a malfunction may occur.
- Do not remove the card while editing the data on the PC card. The data stored on the Navigation unit and data on the PC card could be corrupted.



Handling and Care of the Disc

Some basic precautions are necessary when handling your discs.

Discs you can use

• Do not use discs other than those intended for this product. Use only discs approved by Pioneer.

DVD-ROM drive and care

• Use only normal, round discs, if you insert irregular, non-round, shaped discs they may jam in the DVD-ROM drive or not play properly.



- Check all discs for cracks, scratches or warping before playing. Discs that have cracks, scratches or are warping may not play properly. Do not use such discs.
- Avoid touching the recorded (non-printed side) surface when handling the disc.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and do not expose the discs to high temperatures.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean dirt from a disc, wipe the disc with a soft cloth outward from the center of the disc.



- If the heater is used in cold weather, moisture may form on components inside the DVD-ROM drive. Condensation may cause the DVD-ROM drive to not operate properly. If you think that condensation is a problem turn off the DVD-ROM drive for an hour or so to allow the DVD-ROM drive to dry out and wipe any damp discs with a soft cloth to remove the moisture.
- Road shocks may interrupt disc playback.

Ambient conditions for playing disc

- At extremely high temperatures, a temperature cutout protects the Navigation System by switching it off automatically.
- Despite our careful design of the product, as a result of mechanical wear, ambient conditions for use, or handling of the disc, small scratches that do not affect actual operation may appear on the disc surface. This is not a sign of the malfunction of the unit. Consider it to be normal wear and tear.

Resetting the System

On occasion, you may need to reset your Navigation System.

For details, refer to "About the Data being Deleted" in "Operation Manual".

When a reset is necessary

You should reset the system in the following situations: • After installation of this unit in your vehicle.

- If there appear to be problems with the operation of the system.
- If there are problems with the display.
- When changing the combination of the equipment.

Using the reset button

The reset button is recessed in the front of the main unit to prevent it being pressed accidentally. Look for it at the top right-hand corner of the front panel. Insert a pointed implement such as a ballpoint pen into

the small hole and push.



If you have connected other equipment (for example, a display or AV Head Unit) to this by cable, be sure to reset that equipment too.

11

Specifications

Main unit (GPS receiver) svstem

(GPS receiver)	
System	
	SPS (Standard Positioning
	Service)
Reception system	
	reception system
Reception frequency	
Sensitivity	
Position update frequency	Approx. once per second
(Common)	
Max. output impedance	1 Vp-p, 75 Ω
Maximum current consump	otion
	2 A
Power source	DC 14.4 V (10.8 - 15.1 V
	allowed)
Ground type	Negative type
GPS antenna	
Antenna	Micro strip flat antenna/
	right-handed helical polar-
	ization
Antenna cable	5.0 m (16 ft. 5 in.)
Dimensions	
Main unit	.178(W) × 50(H) × 178(D) mm
	(7 × 2 × 7 in.)
GPS antenna	34(W) × 13(H) × 36(D) mm
	(1-3/8 × 1/2 × 1-3/8 in.)
Steering remote control	38(W) × 67(H) × 18(D) mm
	(1-1/2 × 2-3/5 × 7/10 in.)

Weight

Appendix

Main unit	1.5 kg (3.3 lbs)
GPS antenna	105 g (0.23 lbs)
Steering remote control.	37 g (including holder and
	battery) (0.2 lbs)

Note:

• The specifications and design are subject to change without prior notice. The product purchased may differ in detail from illustrations in this manual.





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