

**Pioneer** *sound.vision.soul*

**Hardware Manual**

***ENGLISH***

DVD Navigation Unit

**AVIC-880DVD**



# Introduction

## 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.) **NAVI** button, **NAVI 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.)
  - "Resetting the System" → Page 9

## Table of Contents

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### Introduction

Manual Overview	1
How to use this manual	1
Terminology	1
Table of Contents	2
Important Safety Information	2
Notes Before Using the System and Additional Safety Information	3
Precaution	3
After-sales service for Pioneer products	4
Product registration	4
Update DVD	4

## Chapter 1

### How to Use Remote Control and Names of Parts

Preparing the Remote Control	5
Inserting the battery for the Remote Control	5
Getting to Know the Components and What They Do	6
The Steering Remote Control	6
Microphone	7
Main unit	7

## Appendix

Handling and Care of the Disc	9
Resetting the System	9
Specifications	10

## Important Safety Information

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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 apply the parking brake before making the 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.
- To promote safety, certain functions are disabled unless the parking brake is applied.

- ❑ 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 ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

### WARNING

- **LIGHT GREEN LEAD AT POWER CONNECTOR IS DESIGNED TO DETECT PARKED 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.

### WARNING

- **Handling the cord on this product or cords associated with accessories sold with the product may expose you to chemicals listed on proposition 65 known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. Wash hands after handling.**

## **⚠ CAUTION**

- **Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, this unit damage, smoke, and overheating could result from contact with liquids.**

### **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 processors). If your display has the GUIDE SP OUT jack that can output the voice guidance, connect the external speaker to the display.

AVH-P5700DVD, AVH-P6500DVD:

When combining multi-channel processors, Pioneer external speaker must be connected to the SP-OUT jack (3.5 Ø 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 after-sales 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 0P2  
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:

  
<http://www.pioneerelectronics.com>

1. 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.
3. 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 → Page 9

## 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.

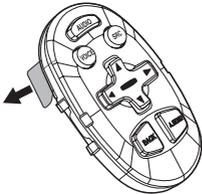
### Inserting the battery for the Remote Control

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

#### Steering Remote

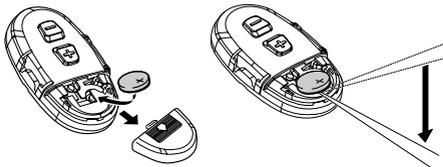
##### When using the remote control for the first time:

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



##### 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.



### ⚠ WARNING

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

### ⚠ 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 (including AVH-P7600DVD, AVH-P5700DVD, AVH-P7500DVD, AVH-P6500DVD, AVH-P6600DVD etc.)

##### DIN mode :

Other Pioneer Head Unit operation

##### Navigation mode :

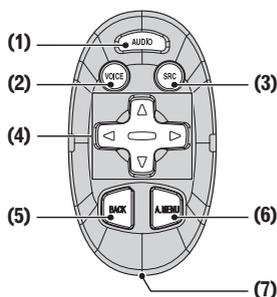
Navigation operation

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	<b>Main mode</b> ↓ <b>Navigation mode</b>	Press the <b>VOICE button</b> while pressing the <b>A.MENU button</b> .
Setting B	<b>DIN mode</b> ↓ <b>Navigation mode</b>	Press the <b>BACK button</b> while pressing the <b>A.MENU button</b> .
Setting C	<b>Navigation mode only</b>	Press the <b>SRC (SOURCE) button</b> while pressing the <b>A.MENU button</b> .

- 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) ▲, ▼, ◀, ▶ 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

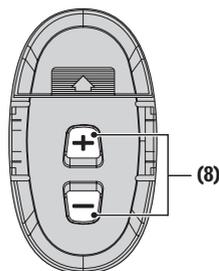
Display the menu.

**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**

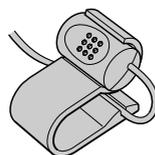
Press this button if you want to hear the voice guidance again.

**(7) Transmitter**

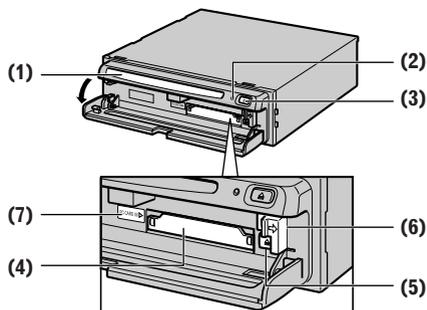
See Main/DIN mode.

**(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.

↳ "Resetting the System" → Page 9

**(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 comes on at insertion of the PC card to indicate that the connection is OK.

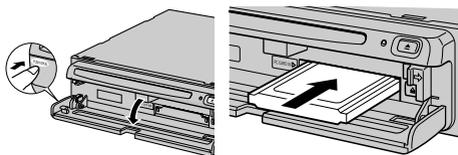
## Setting and removing the disc

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.

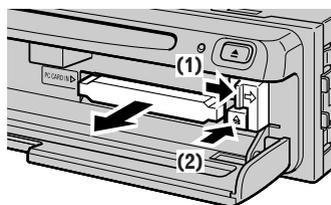


## Removing the PC Card

### ⚠ 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.

# Appendix

## Handling and Care of the Disc

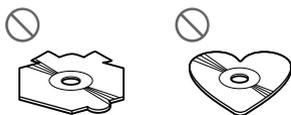
Some basic precautions are necessary when handling your discs.

### 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".

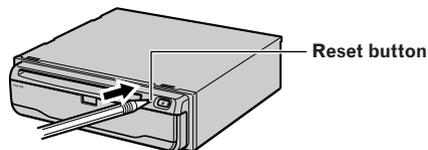
### When a reset is necessary

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.

# Specifications

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## Main unit

### (GPS receiver)

System .....	L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system .....	8-channel multi-channel reception system
Reception frequency .....	1,575.42 MHz
Sensitivity .....	-130 dbm
Position update frequency..	Approx. once per second

### (Common)

Max. output impedance .....	1 V <sub>p-p</sub> , 75 Ω
Maximum current consumption .....	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 .....	35(W) × 65(H) × 24(D) mm (1-3/8 × 2-1/2 × 1 in.)

## Weight

Main unit .....	1.4 kg (3.1 lbs)
GPS antenna.....	105 g (0.23 lbs)
Steering remote control .....	51 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.

*Register your product at*

*<http://www.pioneerelectronics.com>*



*See "Product registration" page*

**PIONEER CORPORATION**

4-1, MEGURO 1-CHOME, MEGURO-KU, TOKYO 153-8654, JAPAN

**PIONEER ELECTRONICS (USA) INC.**

P.O. Box 1540, Long Beach, California 90801-1540, U.S.A.

TEL: (800) 421-1404

**PIONEER EUROPE NV**

Haven 1087, Keetberglaan 1, B-9120 Melsele, Belgium

TEL: (0) 3/570.05.11

**PIONEER ELECTRONICS ASIACENTRE PTE. LTD.**

253 Alexandra Road, #04-01, Singapore 159936

TEL: 65-6472-7555

**PIONEER ELECTRONICS AUSTRALIA PTY. LTD.**

178-184 Boundary Road, Braeside, Victoria 3195, Australia

TEL: (03) 9586-6300

**PIONEER ELECTRONICS OF CANADA, INC.**

300 Allstate Parkway, Markham, Ontario L3R OP2, Canada

TEL: 1-877-283-5901

**PIONEER ELECTRONICS DE MEXICO, S.A. de C.V.**

Blvd.Manuel Avila Camacho 138 10 piso

Col.Lomas de Chapultepec, Mexico, D.F. 11000

TEL:55-9178-4270

**先鋒股份有限公司**

總公司: 台北市中山北路二段44號13樓

電話: (02) 2521-3588

**先鋒電子(香港)有限公司**

香港九龍尖沙咀海港城世界商業中心9樓901-6室

電話: (0852) 2848-6488

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