

# Operation Manual Mode d'emploi

High power CD player with FM/AM tuner

Lecteur CD de grande puissance avec syntoniseur  
FM/AM

# DEH-2700

English

Français

Español

**SUPER TUNER III D**

## Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, keep this manual in a safe place for future reference.*

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## 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

<u>Level</u>	<u>Example</u>
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.



## 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.



## About this unit

The tuner frequencies on this unit are allocated for use in North America. Use in other areas may result in poor reception.

### **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.***


**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.**

### **CAUTION**

- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, this unit damage, smoke, and overheat could result from contact with liquids.
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so that you can hear sounds from outside the vehicle.
- Protect this unit from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.

### **Important (Serial number)**

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

## After-sales service for Pioneer products

Please contact the dealer or distributor from where you purchased this unit for 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 unit to the companies at the addresses listed below for repair without advance contact.

## Before You Start

### 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 this unit. ▣

## 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. ▣

## Protecting your unit from theft

The front panel can be detached from the head unit to discourage theft.



### Important

- Never use force or grip the display and the buttons too tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

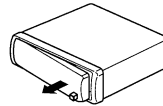
## Removing the front panel

### 1 Press DETACH to release the front panel.

Press **DETACH** and the right side of the panel is released from the head unit.

### 2 Grab the front panel and remove.

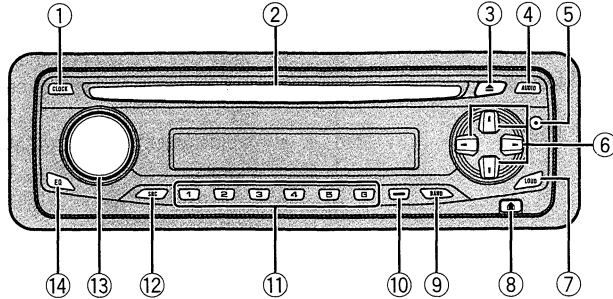
Grab the right side of the front panel and pull away to the left. The front panel will be detached from the head unit.



## Attaching the front panel

### 1 Place the front panel flat against the head unit.

### 2 Press the front panel into the face of the head unit until it is firmly seated. ▣



## Head unit

### ① CLOCK button

Press to change to the clock display.

### ② Disc loading slot

Insert a disc to play.

### ③ EJECT button

Press to eject a CD from your built-in CD player.

### ④ AUDIO button

Press to select various sound quality controls.

### ⑤ PAUSE button

Press to turn pause on or off.

### ⑥ ▲/▼/◀/▶ buttons

Press to do manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

### ⑦ LOUDNESS button

Press to turn loudness on or off.

### ⑧ DETACH button

Press to remove the front panel from the head unit.

### ⑨ BAND button

Press to select among three FM bands and one AM band and to cancel the control mode of functions.

### ⑩ LOCAL/BSM button

Press to turn local function on or off. Press and hold to turn BSM function on or off.

### ⑪ 1-6 buttons

Press for preset tuning.

### ⑫ SOURCE button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

### ⑬ VOLUME

Rotate it to increase or decrease the volume.

### ⑭ EQ button

Press to select various equalizer curves. ▣

## Power ON/OFF

### Turning the unit on and selecting a source

You can select a source you want to listen to. To switch to the built-in CD player, load a disc in the unit (refer to page 10).

- **Press SOURCE to select a source.**


Press **SOURCE** repeatedly to switch between the following sources:

**Built-in CD player—Tuner**

When you select a source the unit is turned on.



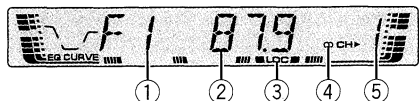
#### Notes

- When no disc has been set in the unit, the source will not switch to the built-in CD player.
- When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off. 

### Turning the unit off

- **Press SOURCE and hold until the unit turns off.** 

## Listening to the radio



- ① **Band indicator**  
Shows which band the radio is tuned to, AM or FM.
- ② **Frequency indicator**  
Shows to which frequency the tuner is tuned.
- ③ **LOC indicator**  
Shows when local seek tuning is on.
- ④ **Stereo (CH) indicator**  
Shows that the frequency selected is being broadcast in stereo.
- ⑤ **Preset number indicator**  
Shows which preset has been selected.

**1 Press SOURCE to select the tuner.**

**2 Use VOLUME to adjust the sound level.**

**3 Press BAND to select a band.**

Press **BAND** until the desired band is displayed, **F1**, **F2**, **F3** for FM or **AM**.

**4 To perform manual tuning, briefly press ◀ or ▶.**

**5 To perform seek tuning, press and hold ◀ or ▶ for about one second and release.**  
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.

- You can cancel seek tuning by briefly pressing either ◀ or ▶.

- If you press and hold ◀ or ▶ you can skip stations. Seek tuning starts as soon as you release the button. ◻

## Storing and recalling broadcast frequencies

If you press any of the preset tuning buttons **1–6** you can easily store up to six broadcast frequencies for later recall with the touch of a button.

- **When you find a frequency that you want to store in memory press one of preset tuning buttons 1–6 and hold until the preset number stops flashing.**

The number you have pressed will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.

The next time you press the same preset tuning button the radio station frequency is recalled from memory.



### Notes

- Up to 18 FM stations, six for each of the three FM bands, and six AM stations can be stored in memory.
- You can also use ▲ and ▼ to recall radio station frequencies assigned to preset tuning buttons **1–6**. ◻


## Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.



## Tuner

- Press **LOCAL/BSM** repeatedly to turn local seek tuning on or off.

When local seek tuning is on, **LOC** appears in the display. 

## Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning buttons **1-6** and once stored there you can tune in to those frequencies with the touch of a button.

- Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using buttons **1-6**.

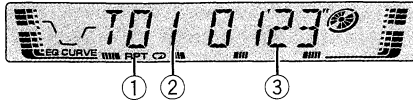
- Press **LOCAL/BSM** and hold until the **BSM** turns on.

**BSM** begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under preset tuning buttons **1-6** in the order of their signal strength. When finished, **BSM** stops flashing.

- To cancel the storage process, press

**LOCAL/BSM**. 

## Playing a CD



- ① **RPT indicator**  
Shows when repeat play is turned on.
- ② **Track number indicator**  
Shows the track currently playing.
- ③ **Play time indicator**  
Shows the elapsed playing time of the current track.

### 1 Insert a CD into the CD loading slot.

Playback will automatically start.

- **Be sure to turn up the label side of a disc.**
- After a CD has been inserted, press **SOURCE** to select the built-in CD player.
- You can eject a CD by pressing **EJECT**.

### 2 Use VOLUME to adjust the sound level.

### 3 To perform fast forward or reverse, press and hold ◀ or ▶.

### 4 To skip back or forward to another track, press ◀ or ▶.

Pressing ▶ skips to the start of the next track. Pressing ◀ once skips to the start of the current track. Pressing again will skip to the previous track.



#### Notes

- The built-in CD player plays one, standard, 12-cm or 8-cm (single) CD at a time. Do not use an adapter when playing 8-cm CDs.
- Do not insert anything other than a CD into the CD loading slot.

- If an error message such as **ERROR-11** is displayed, refer to *Understanding built-in CD player error messages* on page 15. ▢

## Playing tracks in a random order

Random play lets you play back tracks on the CD in a random order.

### ● Press 4 repeatedly to turn random play on or off.

When random play is on, **RDM** appears in the display. ▢

## Repeating play

Repeat play lets you hear the same track over again.

### ● Press 5 repeatedly to turn repeat play on or off.

When repeat play is on, **RPT** appears in the display.

- If you perform track search or fast forward/reverse, repeat play is automatically cancelled. ▢

## Pausing CD playback

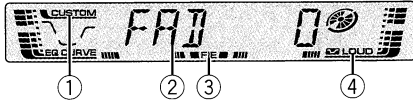
Pause lets you temporarily stop playback of the CD.

### ● Press PAUSE repeatedly to turn pause on or off.

When pause is on, **PAUSE** appears in the display. ▢

## Audio Adjustments

### Introduction of audio adjustments



- ① **CUSTOM indicator**  
Shows when custom equalizer curve is currently selected.
- ② **Audio display**  
Shows the audio adjustments status.
- ③ **FIE indicator**  
Shows when the front image enhancer is turned on.
- ④ **LOUD indicator**  
Appears in the display when loudness is turned on.

- **Press AUDIO to display the audio function names.**

Press **AUDIO** repeatedly to switch between the following audio functions:

**FAD** (balance adjustment)—**EQ** (equalizer)  
—**LOUD** (loudness)—**FIE** (front image enhancer)—**SLA** (source level adjustment)

- When selecting the FM tuner as the source, you cannot switch to **SLA**.
- If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display.
- To return to the display of each source, press **BAND**. □

### Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

- 1 **Press AUDIO to select FAD.**

- If the balance setting has been previously adjusted, **BAL** will be displayed.

- 2 **Press ▲ or ▼ to adjust front/rear speaker balance.**

**FAD F15 – FAD R15** is displayed as the front/rear speaker balance moves from front to rear.

- **FAD 0** is the proper setting when only two speakers are used.

- 3 **Press ◀ or ▶ to adjust left/right speaker balance.**

**BAL L9 – BAL R9** is displayed as the left/right speaker balance moves from left to right. □

### Using the equalizer

The equalizer lets you adjust the equalization to match car interior acoustic characteristics as desired.

#### Recalling equalizer curves

There are six stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

Display	Equalizer curve
<b>SPR-BASS</b>	Super bass
<b>POWERFUL</b>	Powerful
<b>NATURAL</b>	Natural
<b>VOCAL</b>	Vocal
<b>CUSTOM</b>	Custom
<b>EQ FLAT</b>	Flat

- **CUSTOM** is an adjusted equalizer curve that you create.
- When **EQ FLAT** is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **EQ FLAT** and a set equalizer curve.

- **Press EQ to select the equalizer.**

Press **EQ** repeatedly to switch between the following equalizers:

**SPR-BASS—POWERFUL—NATURAL—VOCAL—CUSTOM—EQ FLAT**

## Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **CUSTOM**.

- If you make adjustments when a curve other than **CUSTOM** is selected, the newly adjusted curve will replace the previous curve. Then a new curve with **CUSTOM** appears on the display while selecting the equalizer curve.

### 1 Press **AUDIO** to select **EQ**.

### 2 Press **◀** or **▶** to select the equalizer band to adjust.

**EQ-L** (low)—**EQ-M** (mid)—**EQ-H** (high)

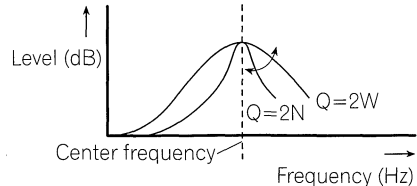
### 3 Press **▲** or **▼** to adjust the level of the equalizer band.

**+6** – **–6** is displayed as the level is increased or decreased.

- You can then select another band and adjust the level.

## Fine-adjusting equalizer curve

You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (**EQ-L/EQ-M/EQ-H**).



- If you make adjustments when a curve other than **CUSTOM** is selected, the newly adjusted curve will replace the previous curve. Then a new curve with **CUSTOM** appears on the display while selecting the equalizer curve.

### 1 Press **AUDIO** and hold until frequency and the Q factor (e.g., **F- 80 Q 1W**) appears in the display.

### 2 Press **AUDIO** to select the desired band for adjustment.

Low—Mid—High

### 3 Press **◀** or **▶** to select the desired frequency.

Low: **40—80—100—160** (Hz)

Mid: **200—500—1k—2k** (Hz)

High: **3k—8k—10k—12k** (Hz)

### 4 Press **▲** or **▼** to select the desired Q factor.

**2N—1N—1W—2W** (◻)

## Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

### 1 Press **AUDIO** to select **LOUD**.


## Audio Adjustments

### 2 Press ▲ to turn loudness on.

**LOUD** indicator is displayed.

- To turn loudness off, press ▼.
- You can also turn loudness on or off by pressing **LOUDNESS**.

### 3 Press ◀ or ▶ to select a desired level.

**LOW** (low)—**MID** (mid)—**HI** (high) 

## Front image enhancer (F.I.E.)

The F.I.E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies. You can select the frequency you want to cut.



### Precaution

When the F.I.E. function is deactivated, the rear speakers output sound of all frequencies, not just bass sounds. Reduce the volume before disengaging F.I.E. to prevent a sudden increase in volume.

### 1 Press **AUDIO** to select FIE.

### 2 Press ▲ to turn F.I.E. on.


- To turn F.I.E. off, press ▼.

### 3 Press ◀ or ▶ to select a desired frequency.

**100—160—250** (Hz)



### Notes

- After turning the F.I.E. function on, use the balance adjustment (refer to page 11) and adjust front and rear speaker volume levels until they are balanced.
- Turn the F.I.E. function off when using a 2-speaker system. 

## Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the FM tuner volume level, which remains unchanged.
- The AM tuner volume level can also be adjusted with source level adjustments.

### 1 Compare the FM tuner volume level with the level of the source you wish to adjust.

### 2 Press **AUDIO** to select SLA.

### 3 Press ▲ or ▼ to adjust the source volume.

**SLA +4 – SLA –4** is displayed as the source volume is increased or decreased. 

## Setting the clock

Use these instructions to set the clock.

**1 Press SOURCE and hold until the unit turns off.**

**2 Press AUDIO and hold until clock appears in the display.**

**3 Press ◀ or ▶ to select the segment of the clock display you wish to set.**

Pressing ◀ or ▶ will select one segment of the clock display:

Hour—Minute

As you select segments of the clock display the segment selected will blink.



**4 Press ▲ or ▼ to set the clock.**

Pressing ▲ will increase the selected hour or minute. Pressing ▼ will decrease the selected hour or minute.

- To cancel clock settings, press **BAND**.
- You can also cancel clock settings by holding down **AUDIO** until the unit turns off.

## Turning the clock display on or off

You can turn the clock display on or off.

● **Press CLOCK to turn the clock display on or off.**

Each press of **CLOCK** turns the clock display on or off.

- The clock display disappears temporarily when you perform other operations, but the clock display appears again after 20 seconds. □

## Additional Information

### Understanding built-in CD player error messages

When you contact your dealer or your nearest Pioneer Service Center, be sure to record the error message.

Message	Cause	Action
<b>ERROR-11, 12, 17, 30</b>	Dirty disc	Clean disc.
<b>ERROR-11, 12, 17, 30</b>	Scratched disc	Replace disc.
<b>ERROR-10, 11, 12, 17, 30, A0</b>	Electrical or mechanical	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
<b>ERROR-44</b>	All tracks are skip tracks	Replace disc.

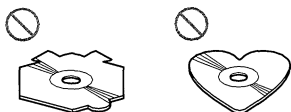


### CD player and care

- Use only CDs that have the Compact Disc Digital Audio mark as show below.



- Use only normal, round CDs. If you insert irregular, non-round, shaped CDs they may jam in the CD player or not play properly.



- Check all CDs for cracks, scratches or warping before playing. CDs that have cracks, scratches or are warped may not play properly. Do not use such discs.
- Avoid touching the recorded (non-printed) 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 a CD, wipe the disc with a soft cloth outward from the center.



- If the heater is used in cold weather, moisture may form on components inside the CD player. Condensation may cause the CD player to malfunction. If you think that condensation is a problem turn off the CD player for an hour or so to allow it to dry out and wipe any damp discs with a soft cloth to remove the moisture.
- Road shocks may interrupt CD playback.

### CD-R/CD-RW discs

- When CD-R/CD-RW discs are used, playback is possible only for discs which have been finalized.
- It may not be possible to play back CD-R/CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc., on the lens of this unit.
- Playback of discs recorded on a personal computer may not be possible, depending on the application settings and the environment. Please record with the correct format. (For details, contact the manufacturer of the application.)

**Additional Information**

- Playback of CD-R/CD-RW discs may become impossible in case of direct exposure to sunlight, high temperatures, or the storage conditions in the vehicle.
- This unit conforms to the track skip function of the CD-R/CD-RW disc. The tracks containing the track skip information are skipped automatically.
- If you insert a CD-RW disc into this unit, time to playback will be longer than when you insert a conventional CD or CD-R disc.
- Read the precautions with CD-R/CD-RW discs before using them.



# Additional Information

## Specifications

### General

Power source .....	14.4 V DC (10.8 – 15.1 V allowable)
Grounding system .....	Negative type
Max. current consumption .....	10.0 A
Dimensions (W × H × D): DIN	
Chassis .....	178 × 50 × 157 mm (7 × 2 × 6-1/8 in.)
Nose .....	188 × 58 × 19 mm (7-3/8 × 2-1/4 × 3/4 in.)
D	
Chassis .....	178 × 50 × 162 mm (7 × 2 × 6-3/8 in.)
Nose .....	170 × 48 × 14 mm (6-3/4 × 1-7/8 × 1/2 in.)
Weight .....	1.3 kg (2.9 lbs)

### Audio

Continuous power output is 20 W per channel minimum into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.	
Maximum power output .....	45 W × 4
Load impedance .....	4 Ω (4 – 8 Ω allowable)
Preout max output level/output impedance .....	2.2 V/1 kΩ
Equalizer (3-Band Parametric Equalizer):	
Low	
Frequency .....	40/80/100/160 Hz
Q Factor .....	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain .....	±12dB
Mid	
Frequency .....	200/500/1k/2k Hz
Q Factor .....	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain .....	±12dB
High	
Frequency .....	3.15k/8k/10k/12.5k Hz
Q Factor .....	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain .....	±12dB
Loudness contour	
Low .....	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid .....	+10 dB (100 Hz), +6.5 dB (10 kHz)

High .....	+11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB)
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### CD player

System .....	Compact disc audio system
Usable discs .....	Compact disc
Signal format:	
Sampling frequency .....	44.1 kHz
Number of quantization bits .....	16; linear
Frequency characteristics .....	5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio .....	94 dB (1 kHz) (IHF-A network)
Dynamic range .....	92 dB (1 kHz)
Number of channels .....	2 (stereo)

### FM tuner

Frequency range .....	87.9 – 107.9 MHz
Usable sensitivity .....	8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity .....	10 dBf (0.9 μV/75 Ω, mono)
Signal-to-noise ratio .....	75 dB (IHF-A network)
Distortion .....	0.3 % (at 65 dBf, 1 kHz, stereo)
	0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response .....	30 – 15,000 Hz (±3 dB)
Stereo separation .....	45 dB (at 65 dBf, 1 kHz)
Selectivity .....	80 dB (±200 kHz)
Three-signal intermodulation (desired signal level) .....	30 dBf (two undesired signal level: 100 dBf)

### AM tuner

Frequency range .....	530 – 1,710 kHz (10 kHz)
Usable sensitivity .....	18 μV (S/N: 20 dB)
Signal-to-noise ratio .....	65 dB (IHF-A network)



### Note

Specifications and the design are subject to possible modifications without notice due to improvements. ■

*Register your product at  
Enregistrez votre produit au  
Registre su producto en*

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

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Voir la page "Enregistrement du produit"  
Consulte la página sobre "Registro del producto"*

#### **PIONEER CORPORATION**

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#### **先鋒電子（香港）有限公司**

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# DEH-2700

This product conforms to CEMA cord colors.  
Le code de couleur des câbles utilisé pour ce produit est conforme à CEMA.  
Los colores de los cables este producto se conforman con el código de colores CEMA.

## Connecting the Units

### Note:

- This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck or bus, check the battery voltage.
- To avoid shorts in the electrical system, be sure to disconnect the  $\ominus$  battery cable before beginning installation.
- Refer to the owner's manual for details on connecting the power amp and other units, then make connections correctly.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
- Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.
- Don't pass the yellow lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.
- When replacing the fuse, be sure to only use a fuse of the rating prescribed on this unit.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right  $\ominus$  speaker leads are common. If you ground the products together and the ground becomes detached, there is a risk of damage to the products or fire.
- The black lead is ground. Please ground this lead separately from the ground of high-current products such as power amps. If you ground the products together and the ground becomes detached, there is a risk of damage to the products or fire.
- Speakers connected to this unit must be high-power with minimum rating of 45 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here may result in the speakers catching fire, emitting smoke, or becoming damaged.

- When this product's source is switched ON, a control signal is output through the blue/white lead. Connect to an external power amp's system remote control or the car's Auto-antenna relay control terminal (max. 300 mA 12 V DC). If the car features a glass antenna, connect to the antenna booster power supply terminal.
- When an external power amp is being used with this system, be sure not to connect the blue/white lead to the amp's power terminal. Likewise, do not connect the blue/white lead to the power terminal of the auto-antenna. Such connection could cause excessive current drain and malfunction.
- To avoid a short-circuit, cover the disconnected lead with insulating tape. Insulate the unused speaker leads without fail. There is a possibility of a short-circuit if the leads are not insulated.
- If this unit is installed in a vehicle that does not have an ACC (accessory) position on the ignition switch, the red lead of the unit should be connected to a terminal coupled with ignition switch ON/OFF operations. If this is not done, the vehicle battery may be drained when you are away from the vehicle for several hours. (Fig. 1)

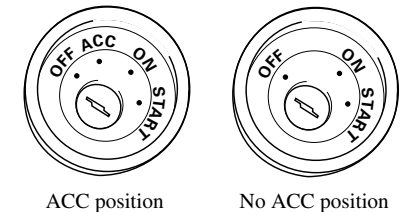


Fig. 1

- Cords for this product and those for other products may be different colors even if they have the same function. When connecting this product to another product, refer to the supplied manuals of both products and connect cords that have the same function.

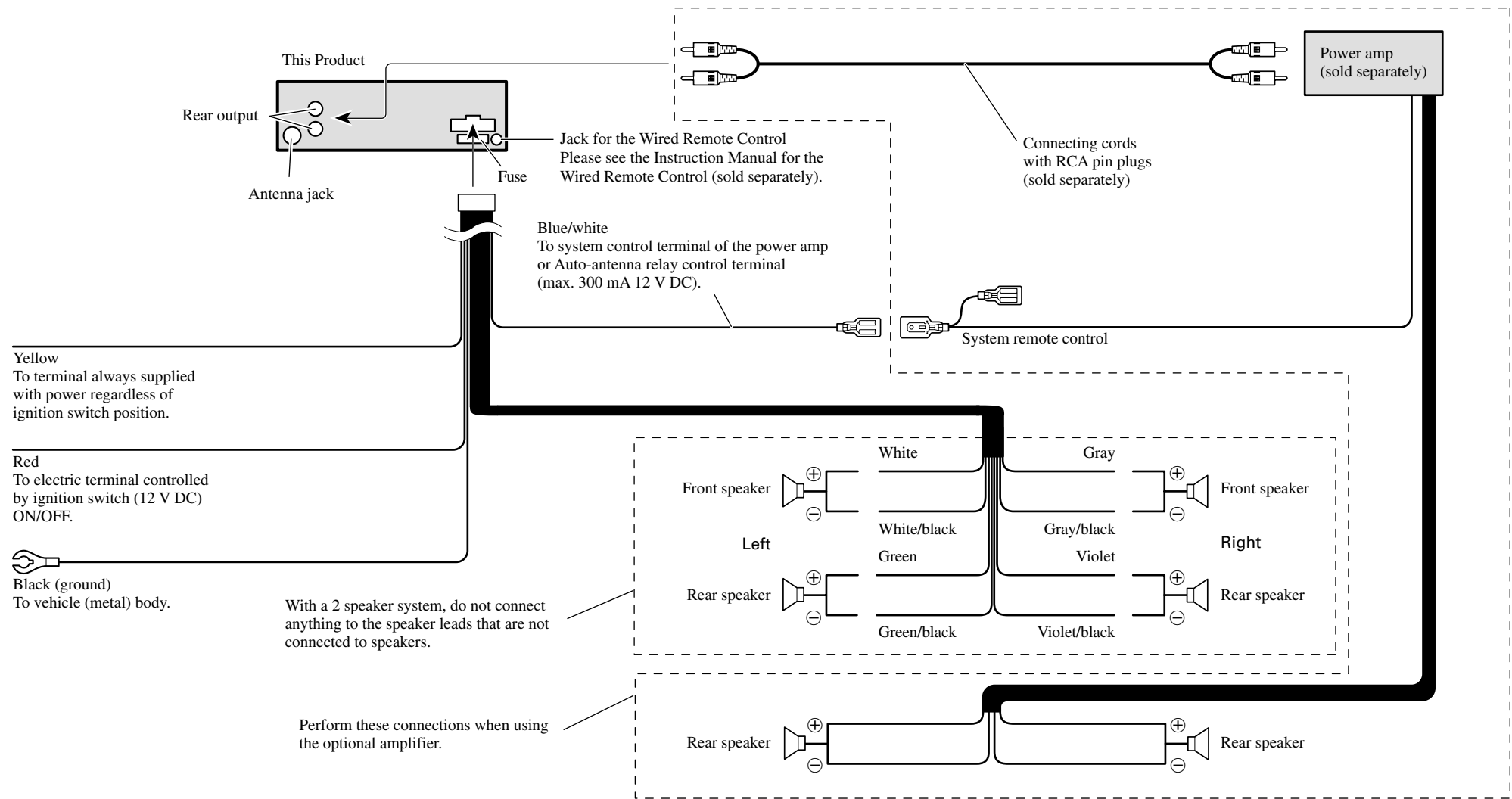


Fig. 2

# Installation

## Note:

- Before making a final installation of the unit, temporarily connect the wiring to confirm that the connections are correct and the system works properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- The semiconductor laser will be damaged if it overheats, so don't install the unit anywhere hot — for instance, near a heater outlet.
- If installation angle exceeds 60° from horizontal, the unit might not give its optimum performance. (Fig. 3)

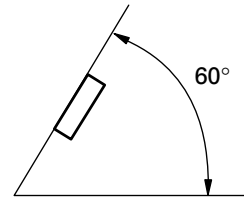


Fig. 3

## DIN Front/Rear-mount

This unit can be properly installed either from “Front” (conventional DIN Front-mount) or “Rear” (DIN Rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following illustrated installation methods.

## DIN Front-mount

### Installation with the rubber bush (Fig. 4)

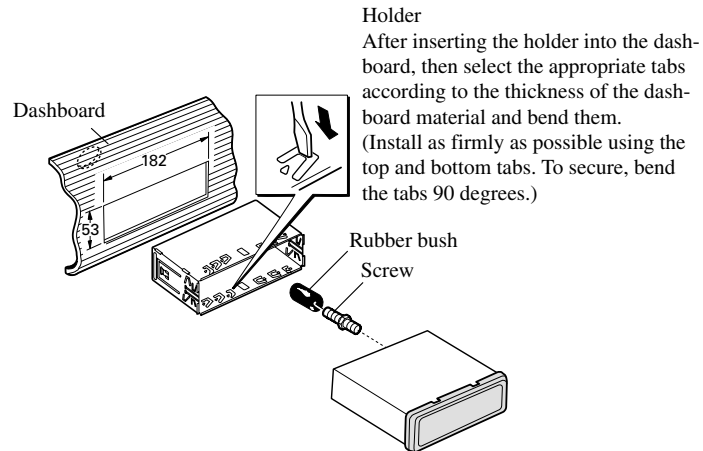
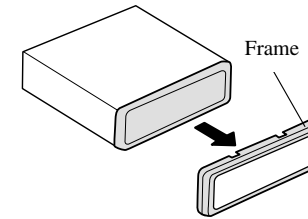


Fig. 4

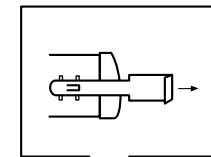
### Removing the Unit (Fig. 5) (Fig. 6)



To remove the frame, extend top and bottom of the frame outwards in order to unlock it. (When reattaching the frame, point the side with a groove downwards and attach it.)

- It becomes easy to remove the frame if the front panel is released.

Fig. 5



Insert the supplied extraction keys into the unit, as shown in the figure, until they click into place. Keeping the keys pressed against the sides of the unit, pull the unit out.

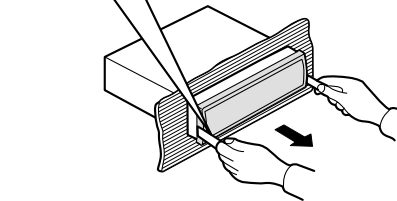


Fig. 6

## DIN Rear-mount

### Installation using the screw holes on the side of the unit

#### 1. Remove the frame. (Fig. 7)

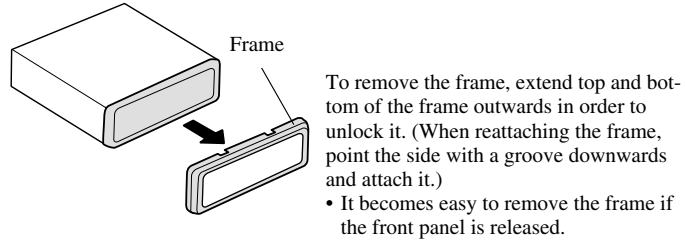


Fig. 7

#### 2. Fastening the unit to the factory radio mounting bracket. (Fig. 8) (Fig. 9)

Select a position where the screw holes of the bracket and the screw holes of the head unit become aligned (are fitted), and tighten the screws at 2 places on each side. Use either truss screws (5 × 8 mm) or flush surface screws (5 × 9 mm), depending on the shape of the screw holes in the bracket.

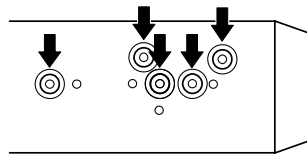


Fig. 8

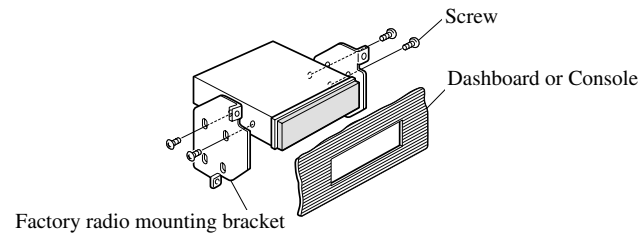


Fig. 9

### About the fixing screws for the front panel

If you do not operate the Detaching and Replacing the Front Panel Function, use the supplied fixing screws and fix the front panel to this unit.

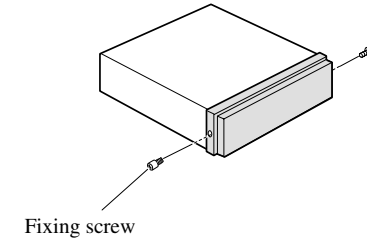


Fig. 10

**Note:**

Before installing this unit in your vehicle, refer to the illustration below and remove the tag.  
Do not use the parts you have removed (screws etc.) when installing the unit in your vehicle.

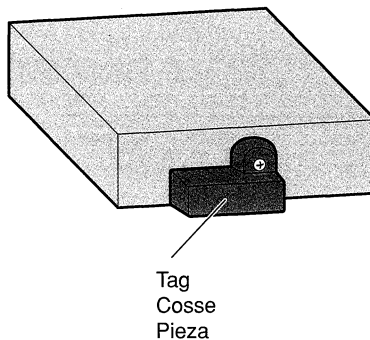
**Remarque:**

Avant d'installer cet appareil dans votre voiture, reportez-vous à l'illustration ci-dessous et retirez cette cosse.

N'utilisez pas les pièces que vous avez retirées (vis, etc.) lors de l'installation de l'appareil dans votre voiture.

**Nota:**

Antes de instalar esta unidad en su vehículo, refiérase a la ilustración abajo y quite la pieza.  
No utilice las partes retiradas (tornillos, etc.) al instalar la unidad en su vehículo.



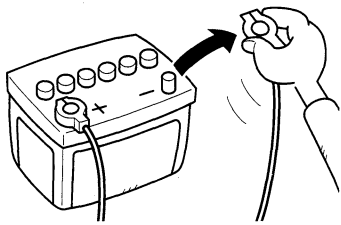


Fig.1

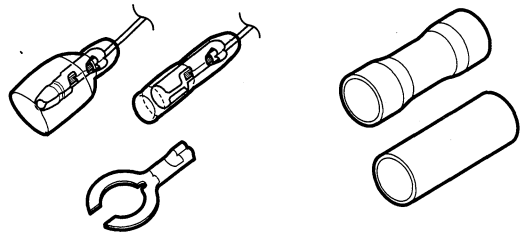


Fig.2

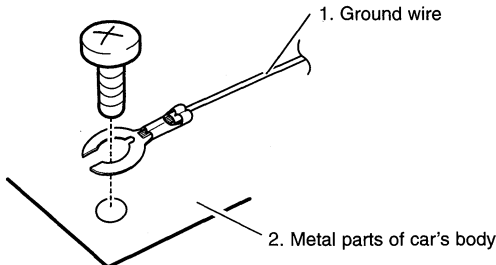


Fig.3

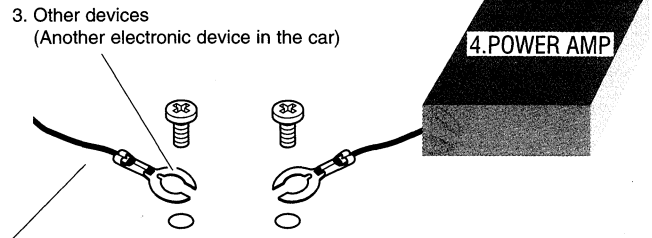


Fig.4

## WARNING

Always follow the instructions below when connecting or installing parts. Not following the instructions below may result in the malfunction of this unit. Additionally, if the parts to this unit malfunction the unit may emit smoke or catch fire.

- Always remove a connector from the  $\ominus$  battery terminal before beginning any connection or installing work. (Fig.1)
- Ensure that the power cord, the ground wire and the speaker are all properly connected. We recommend that you use a plug and a receptacle, solderless contact and a Y connector. (Fig.2)
- When installing this unit, always connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the car's body. (Fig.3)
  1. Ground wire
  2. Metal parts of car's body
- Connect to this unit only high-powered speakers of over 50W and with impedance between 4 and 8 ohms. Though there are speaker systems with low impedance between 1 and 3 ohms, you must not connect these to this unit.
- When connecting the power amp (sold separately) to this unit ensure that the ground wire for the power amp is properly connected to metal parts of the car's body. Connect the ground wire of the power amp with a different screw from the one you used to connect the ground wire for this unit or any other device. Should the screw for the power amp's ground wire loosen or fall out, it may result in this unit emitting smoke or malfunctioning. (Fig.4)
- 3. Other devices (Another electronic device in the car)
- 4. POWER AMP
- Cover any terminals not connected with insulation tape so they do not make contact with metal.
- Do not change the speaker connections while this unit is in operation.

If you have any questions regarding the connection or installation or parts, consult your local dealer.

## ADVERTENCIA

Siga siempre estas instrucciones antes de conectar o instalar piezas. De lo contrario, puede que esta unidad no funcione correctamente. Además, si las piezas de esta unidad no funcionan correctamente, la unidad puede expulsar humo o fuego.

- Extraiga siempre un conector del terminal de batería  $\ominus$  antes de realizar cualquier conexión o instalación. (Fig.1)
- Asegúrese de que el cable de corriente, el cable de conexión a tierra y el altavoz están correctamente conectados. Le recomendamos que utilice un enchufe y un receptáculo, un contacto sin soldadura y un conector en Y. (Fig.2)
- Cuando instale esta unidad, conecte siempre el cable de conexión a tierra en primer lugar. Asegúrese de que el cable de conexión a tierra está correctamente conectado a las partes metálicas de la carrocería del automóvil. (Fig.3)
  1. Cable de conexión a tierra
  2. Partes metálicas de la carrocería del automóvil
- Conecte a esta unidad únicamente altavoces de alta potencia, de más de 50 W y con una impedancia de entre 4 y 8 ohmios. Aunque existen sistemas de altavoces con baja impedancia entre 1 y 3 ohmios, no debe conectarlos a esta unidad.
- Cuando conecte el amplificador de potencia (vendido por separado) a esta unidad, asegúrese de que el cable de conexión a tierra del amplificador de potencia está conectado correctamente a las partes metálicas de la carrocería del automóvil. Conecte el cable de conexión a tierra del amplificador de potencia con un tornillo distinto del utilizado para conectar el cable de conexión a tierra de esta unidad o cualquier otro dispositivo. En caso de que el tornillo del cable de conexión a tierra del amplificador de potencia se afloje o se suelte, la unidad puede expulsar humo o dejar de funcionar correctamente. (Fig.4)
- 3. Otros dispositivos (otro dispositivo electrónico del automóvil)
- 4. AMPLIFICADOR DE POTENCIA
- Cubra cualquier terminal no conectado con cinta aislante para que no haga contacto con el metal.
- No cambie las conexiones del altavoz mientras esta unidad esté en funcionamiento.

Si tiene alguna pregunta en relación con la conexión o la instalación de piezas, consulte a su distribuidor local.

## AVERTISSEMENT

Veillez toujours suivre les instructions indiquées ci-dessous lors du branchement ou de l'installation des pièces. Ne pas suivre les instructions indiquées ci-dessous peut entraîner un mauvais fonctionnement de l'unité. En outre, si les pièces de cette unité fonctionnent mal, de la fumée pourra sortir de l'unité ou cette dernière pourra prendre feu.

- Assurez-vous de toujours enlever un connecteur de la prise  $\ominus$  de la batterie avant de effectuer un branchement ou un travail d'installation. (Fig.1)
- Assurez-vous que le cordon d'alimentation, le fil de terre et l'enceinte sont branchés correctement. Nous vous recommandons d'utiliser une fiche et une prise de courant (femelle), un contact sans soudure et un raccord en Y. (Fig.2)
- Quand vous installez l'unité, veuillez toujours brancher le fil de terre en premier. Assurez-vous que le fil de terre est branché correctement aux pièces métalliques de la carrosserie de la voiture. (Fig.3)
  1. Fil de terre
  2. Pièces métalliques de la carrosserie de la voiture
- Assurez-vous de ne brancher à cette unité que des enceintes à haute puissance de plus de 50 W et d'une impédance entre 4 et 8 ohms. Même s'il existe des systèmes d'enceintes avec une impédance basse entre 1 et 3 ohms, vous ne devez pas brancher ce type d'enceintes à l'unité.
- Quand vous branchez l'amplificateur de puissance (vendu séparément) à cette unité, assurez-vous que le fil de terre de l'amplificateur de puissance est branché correctement aux pièces métalliques de la carrosserie de la voiture. Branchez le fil de terre de l'amplificateur de puissance avec un tournevis différent de celui que vous avez utilisé pour brancher le fil de terre à l'unité ou un autre dispositif. Si la vis du fil de terre de l'amplificateur de puissance se desserre ou tombe, de la fumée pourra sortir de l'unité ou elle fonctionnera mal. (Fig.4)
- 3. Autres dispositifs (Un autre dispositif électronique dans la voiture)
- 4. AMPLIFICATEUR DE PUISSANCE
- Couvrez toutes les prises qui ne sont pas branchées avec du ruban isolant pour qu'elles ne soient pas en contact avec du métal.
- Ne changez pas les branchements de l'enceinte quand l'unité est en marche.

Si vous avez des questions sur le branchement ou l'installation des pièces, veuillez consulter votre revendeur local.

## ADVERTÊNCIA

Siga sempre as seguintes instruções quando realizar a ligação ou instalação de peças. O não cumprimento das seguintes instruções pode resultar no funcionamento incorrecto desta unidade. Para além disso, se as peças desta unidade não funcionarem correctamente, a unidade pode produzir fumo e incendiar.

- Retire sempre um ligador do terminal da bateria  $\ominus$  antes de realizar qualquer trabalho de ligação ou instalação. (Fig.1)
- Certifique-se de que o cabo de alimentação, o fio terra e a coluna estão devidamente ligados. Recomendamos a utilização de uma ficha e de uma tomada, de um contacto sem solda e de um conector em Y. (Fig.2)
- Quando instalar esta unidade, ligue sempre em primeiro lugar o fio terra. Certifique-se de que o fio terra está devidamente ligado a partes metálicas da carroçaria do automóvel. (Fig.3)
  1. Fio terra
  2. Peças metálicas da carroçaria do automóvel
- Ligue a esta unidade apenas a colunas de elevado desempenho com potência superior a 50W e com impedância entre 4 e 8 ohms. Embora existam colunas com baixa impedância, entre 1 e 3 ohms, não deve ligá-las a esta unidade.
- Quando ligar o amplificador (vendido em separado) a esta unidade, certifique-se de que o fio terra para o amplificador está devidamente ligado a peças metálicas da carroçaria do automóvel. Ligue o fio terra do amplificador com um parafuso diferente do utilizado para ligar o fio terra a esta unidade ou a qualquer outro dispositivo. Se o parafuso do amplificador se soltar ou cair, poderá fazer com que a unidade comece a deitar fumo ou a funcionar mal. (Fig.4)
- 3. Outros dispositivos (Outra unidade electrónica no automóvel)
- 4. AMPLIFICADOR
- Tape todos os terminais não ligados com fita isoladora de forma a que não fiquem em contacto com o metal.
- Não mude as ligações das colunas enquanto a unidade estiver a funcionar.

Em caso de dúvidas relacionadas com a ligação ou instalação de peças, consulte o seu distribuidor local.

<KMMNF> <CRP1310-AU>





PIONEER ELECTRONICS (USA) INC.

PIONEER ELECTRONICS OF CANADA, INC.

LIMITED WARRANTY

WARRANTY VALID ONLY IN COUNTRY OF PRODUCT PURCHASE

WARRANTY

Pioneer Electronics (USA) Inc. (PUSA), and Pioneer Electronics Of Canada, Inc. (POC), warrant that products distributed by PUSA in the U.S.A., and by POC in Canada that fail to function properly under normal use due to a manufacturing defect when installed and operated according to the owner's manual enclosed with the unit will be repaired or replaced with a unit of comparable value, at the option of PUSA or POC, without charge to you for parts or actual repair work. Parts supplied under this warranty may be new or rebuilt at the option of PUSA or POC.

THIS LIMITED WARRANTY APPLIES TO THE ORIGINAL OR ANY SUBSEQUENT OWNER OF THIS PIONEER PRODUCT DURING THE WARRANTY PERIOD PROVIDED THE PRODUCT WAS PURCHASED FROM AN AUTHORIZED PIONEER DISTRIBUTOR/DEALER IN THE U.S.A. OR CANADA. YOU WILL BE REQUIRED TO PROVIDE A SALES RECEIPT OR OTHER VALID PROOF OF PURCHASE SHOWING THE DATE OF ORIGINAL PURCHASE OR, IF RENTED, YOUR RENTAL CONTRACT SHOWING THE PLACE AND DATE OF FIRST RENTAL. IN THE EVENT SERVICE IS REQUIRED, THE PRODUCT MUST BE DELIVERED WITHIN THE WARRANTY PERIOD, TRANSPORTATION PREPAID, ONLY FROM WITHIN THE COUNTRY OF PURCHASE AS EXPLAINED IN THIS DOCUMENT. YOU WILL BE RESPONSIBLE FOR REMOVAL AND INSTALLATION OF THE PRODUCT. PUSA OR POC, AS APPROPRIATE, WILL PAY TO RETURN THE REPAIRED OR REPLACEMENT PRODUCT TO YOU WITHIN THE COUNTRY OF PURCHASE.

PRODUCT WARRANTY PERIOD

	<u>Parts</u>	<u>Labor</u>
Car Stereo Products .....	1 Year	1 Year

The warranty period for retail customers who rent the product commences upon the date product is first put into use (a) during the rental period or (b) retail sale, whichever occurs first.

WHAT IS NOT COVERED

IF THIS PRODUCT WAS PURCHASED FROM AN UNAUTHORIZED DISTRIBUTOR, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND THIS PRODUCT IS SOLD STRICTLY "AS IS" AND "WITH ALL FAULTS".

PIONEER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL AND/OR INCIDENTAL DAMAGES.

PIONEER DOES NOT WARRANT ANY PRODUCT LISTED ABOVE WHEN IT IS USED IN A TRADE OR BUSINESS OR IN ANY INDUSTRIAL OR COMMERCIAL APPLICATION.

THIS WARRANTY DOES NOT APPLY IF THE PRODUCT HAS BEEN SUBJECTED TO POWER IN EXCESS OF ITS PUBLISHED POWER RATING.

THIS WARRANTY DOES NOT COVER DISPLAY SCREENS DAMAGED BY STATIC, NON-MOVING, IMAGES APPLIED FOR LENGTHY PERIODS (BURN-IN).

THIS WARRANTY DOES NOT COVER THE CABINET OR ANY APPEARANCE ITEM, USER ATTACHED ANTENNA, ANY DAMAGE TO RECORDS OR RECORDING TAPES OR DISCS, ANY DAMAGE TO THE PRODUCT RESULTING FROM ALTERATIONS, MODIFICATIONS NOT AUTHORIZED IN WRITING BY PIONEER, ACCIDENT, MISUSE OR ABUSE, DAMAGE DUE TO LIGHTNING OR TO POWER SURGES, SUBSEQUENT DAMAGE FROM LEAKING, DAMAGE FROM INOPERATIVE BATTERIES, OR THE USE OF BATTERIES NOT CONFORMING TO THOSE SPECIFIED IN THE OWNER'S MANUAL.

THIS WARRANTY DOES NOT COVER THE COST OF PARTS OR LABOR WHICH WOULD BE OTHERWISE PROVIDED WITHOUT CHARGE UNDER THIS WARRANTY OBTAINED FROM ANY SOURCE OTHER THAN A PIONEER AUTHORIZED SERVICE COMPANY OR OTHER DESIGNATED LOCATION. THIS WARRANTY DOES NOT COVER DEFECTS OR DAMAGE CAUSED BY THE USE OF UNAUTHORIZED PARTS OR LABOR OR FROM IMPROPER MAINTENANCE.

ALTERED, DEFACED, OR REMOVED SERIAL NUMBERS VOID THIS ENTIRE WARRANTY

NO OTHER WARRANTIES

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IN CANADA - EXCEPT AS EXPRESSLY PROVIDED HEREIN, THERE ARE NO REPRESENTATIONS, WARRANTIES, OBLIGATIONS OR CONDITIONS, IMPLIED, STATUTORY OR OTHERWISE, APPLICABLE TO THIS PRODUCT.

TO OBTAIN SERVICE (EXCEPT CAR SPEAKERS SOLD IN THE U.S.A. ONLY)

PUSA and POC have appointed a number of Authorized Service Companies throughout the U.S.A. and Canada should your product require service. To receive warranty service you need to present your sales receipt or, if rented, your rental contract showing place and date of original owner's transaction. If shipping the unit you will need to package it carefully and send it, transportation prepaid by a traceable, insured method, to an Authorized Service Company. Package the product using adequate padding material to prevent damage in transit. The original container is ideal for this purpose. Include your name, address and telephone number where you can be reached during business hours.

TO OBTAIN SERVICE ON CAR SPEAKERS SOLD IN THE U.S.A.

Should your car speaker require service please return it to your retail dealer for exchange. To receive warranty service you will need to present your sales receipt showing place and date of original owner's retail purchase. If, for any reason, you can not exchange speakers at the selling dealer call Customer Support at the number below.

On all complaints and concerns in the U.S.A. call Customer Support at 1-800-421-1404, or, in Canada, call Customer Satisfaction at (905) 479-4411.

IN THE U.S.A.

For hook-up and operation of your unit or to locate an Authorized Service Company, please call or write:

CUSTOMER SUPPORT DIVISION  
PIONEER ELECTRONICS (USA) INC.  
P.O. BOX 1760  
LONG BEACH, CALIFORNIA 90801  
1-800-421-1404

<http://www.pioneerelectronics.com>

IN CANADA

For additional information on this warranty, please call or write:

CUSTOMER SATISFACTION GROUP  
PIONEER ELECTRONICS OF CANADA, INC.  
300 ALLSTATE PARKWAY  
MARKHAM, ON L3R 0P2  
(905) 479-4411  
1-877-283-5901

<http://www.pioneerelectronics.com>

DISPUTE RESOLUTION

IN THE U.S.A. - Following our response to any initial request to Customer Support, should a dispute arise between you and Pioneer, Pioneer makes available its Complaint Resolution Program to resolve the dispute. The Complaint Resolution Program is available to you without charge. You are required to use the Complaint Resolution Program before you exercise any rights under, or seek any remedies, created by Title I of the Magnuson-Moss Warranty-Federal Trade Commission Improvement Act, 15 U.S.C. 2301 et seq.

To use the Complaint Resolution Program call 1-800-421-1404 and explain to the customer service representative the problem you are experiencing, steps you have taken to have the product repaired during the warranty period and the name of the authorized Distributor/Dealer from whom the Pioneer product was purchased. After the complaint has been explained to the representative, a resolution number will be issued. Within 40 days of receiving your complaint, Pioneer will investigate the dispute and will either: (1) respond to your complaint in writing informing you what action Pioneer will take, and in what time period, to resolve the dispute; or (2) respond to your complaint in writing informing you why it will not take any action.

IN CANADA - Call the Customer Satisfaction Manager at (905) 946-7446 to discuss your complaint and to obtain a prompt resolution.

RECORD THE PLACE AND DATE OF PURCHASE FOR FUTURE REFERENCE

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Purchase Date \_\_\_\_\_

Purchased From \_\_\_\_\_

KEEP THIS INFORMATION AND YOUR SALES RECEIPT IN A SAFE PLACE

< ARY1048-E/U >

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