

Pioneer

Owner's Manual
Mode d'emploi

MARINE 6-CHANNEL AMPLIFIER
AMPLIFICATEUR 6 CANAUX MARIN

GM-ME600X6

English
Français

Before you start

Thank you for purchasing this PIONEER product

To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe **WARNINGS** and **CAUTIONS** in this manual. *Please keep the manual in a safe and accessible place for future reference.*

Information to User

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

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FEDERAL COMMUNICATIONS
COMMISSION SUPPLIER'S DECLARATION
OF CONFORMITY

Product Name: Marine 6-channel Amplifier

Model Number: GM-ME600X6

Responsible Party Name: PIONEER
ELECTRONICS (USA) INC.

SERVICE SUPPORT DIVISION

Address: 2050 W. 190TH STREET, SUITE 100,
TORRANCE, CA 90504, U.S.A.

Phone: 1-800-421-1404

URL: <https://www.pioneerelectronics.com/PUSA/>

After-sales service for Pioneer products

Please contact the authorized Pioneer dealer from which you purchased this unit or an authorized Pioneer service company for after-sales service or questions you may have about the product. You may contact Pioneer directly as follows:

Do not ship your unit in for repair without contacting Pioneer first. Units sent without a return authorization number will be refused.

USA & CANADA

Pioneer Electronics (USA) Inc.

CUSTOMER SUPPORT DIVISION

P.O. Box 1760

Long Beach, CA 90801-1760 U.S.A.

800-421-1404

For warranty information, please see the Limited Warranty sheet included with this unit.

Visit our website

U.S.:

<https://www.pioneerelectronics.com/PUSA/>

Canada:

<https://www.pioneerelectronics.ca/POCEN/>

- Learn about product updates (such as firmware updates) for your product.
- Register your product.
- Access owner's manuals, spare parts information, service information, and much more.

The Safety of Your Ears is in Your Hands

Get the most out of your equipment by playing it at a safe level—a level that lets the sound come through clearly 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.

ESTABLISH A SAFE LEVEL:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.
- Once you have established a comfortable sound level, set the dial and leave it there.

BE SURE TO OBSERVE THE FOLLOWING GUIDELINES:

- Do not turn up the volume so high that you can't hear what's around you.
- Use caution or temporarily discontinue use in potentially hazardous situations.
- Do not use headphones while operating a boat; the use of headphones may create a traffic hazard and is illegal in many areas.

Before connecting/installing the amplifier


WARNING

- To prevent fire hazard, the heatsink should never be covered (such as by paper, material, etc.).
- This unit is for boats with a 12 V battery and negative grounding. Before installing, check the battery voltage.
- When installing this unit, make sure to connect the ground wire first. Ensure that the ground wire is properly connected to the negative ground circuit of the boat. Use adequate gauge, marine grade electrical wire that has been properly terminated for marine use to make a direct connection to the negative bus bar or negative ground distribution system. Do not attempt to ground the amplifier using the mounting screws.
- Use fused marine grade battery wire (sold separately) of adequate gauge that has been properly terminated for marine use to make a direct connection to the positive bus bar or positive distribution system.

- **If the screw for the ground wire loosens or falls out, it could result in fire, smoke or malfunction.**
- Always use a fuse of the rating prescribed. The use of an improper fuse could result in overheating and smoke, damage to the product, and injury, including burns.
- Check all electrical and signal connections (power, ground, amplifier, speaker, etc.) if amplifier fuse or battery wire fuse blows. Resolve any loose or short circuited connections, then replace the blown fuse with an identical value equivalent.
- Always install the amplifier on an even surface. Do not install the amplifier on a surface that is uneven or has a protrusion. Doing so could result in malfunction.
- When installing the amplifier, do not allow parts such as extra screws to get caught between the amplifier and the boat. Doing so could cause malfunction.
- **Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids. The surfaces of the amplifier and any attached speakers may also heat up and cause burns.**
- In the event of any abnormality, the power supply to the amplifier may cut off to prevent equipment malfunction. If this occurs, switch the system power off and check all electrical and signal connections (power, ground, amplifier, speaker, etc.) for loose or short circuited connections. If you are unable to determine the cause, please contact your dealer.
- Always disconnect the negative \ominus terminal of the battery before making any electrical or signal connections to avoid the risk of electric shock or short circuit during installation.
- Do not attempt to disassemble or modify this unit. Doing so may result in fire, electric shock or other malfunction. Damage or defects resulting from alterations or modifications not authorized in writing by Pioneer are excluded from limited warranty coverage.
- This amplifier is designed for marine use but is not waterproof. Do not install it in places that are prone to getting wet. When the amplifier is not used, attach a cover or cap to prevent water entering inside or the terminals getting wet when they come into contact with water.
- Do not install the amplifier in a location exposed to direct sunlight or excessive heat, humidity or dust.

- Install the amplifier in a dry and well-ventilated environment, where other equipment will not interfere with it.
- When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.
- To ensure proper heat dissipation of the amplifier, ensure the following during installation:
 - Allow adequate space above the amplifier for proper ventilation.
 - Do not mount the amplifier in the engine compartment or in any areas of extreme heat.
 - Do not cover the amplifier.
- Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as papers, floor mat, cloths).
- Please ask your dealer or relevant professionals to install/uninstall this product. Incorrect installation can interfere with boat operation.
- Keep small items such as bolts and screws out of the reach of children. Swallowing can cause serious injury. If swallowed, consult a doctor immediately.

⚠ CAUTION

- Always keep the volume low enough to hear outside sounds.
- Extended use of the headunit while the engine is at rest or idling may exhaust the battery.
- The graphical symbol  placed on the product means this is an electronic product requiring direct current electrical power.

About the protection function

This product has a protection function. If this product detects something abnormal, the Power/Protect indicator will turn red and the operation of amplifier will be stopped:

- When the temperature inside the product becomes high
- When speaker output detects abnormality
- When the supply voltage is out of specification

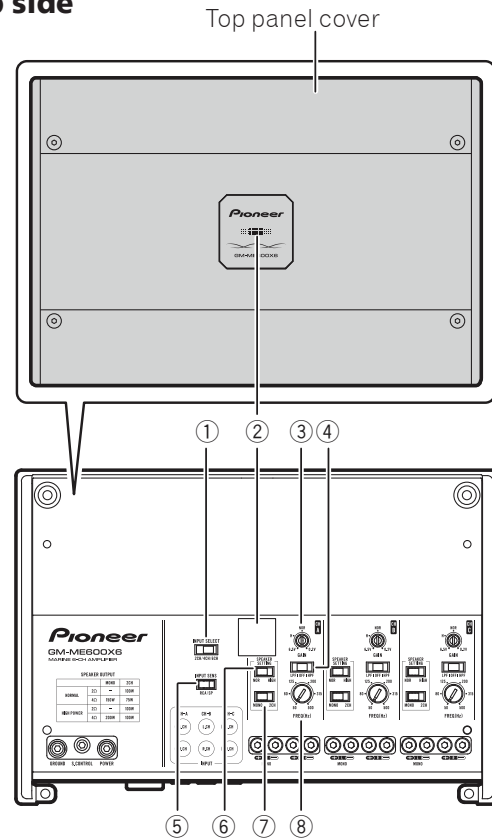
📌 Important (Serial number)

The serial number is located on the bottom of this unit. Be sure to record this number on the enclosed warranty card before installation.

Setting the unit

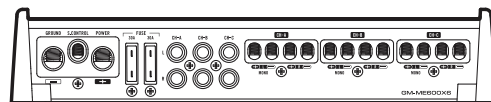
What's what

Top side



- Use the supplied wrench to remove the four screws and detach the Top panel cover. Be sure not to lose the removed screws.
- To adjust the switch, use a flathead screwdriver if needed.

Terminal side



- ① **INPUT SELECT switch**
Select **2CH** for two-channel input, **4CH** for four-channel input, or **6CH** for six-channel input.
- ② **Power/Protect indicator**
The power indicator lights up blue to indicate power ON.
 - If something is not normal, the indicator turns red.
- ③ **GAIN volume***
Adjusting gain volume **CH A** (channel A), **CH B** (channel B), and **CH C** (channel C) helps align the headunit output to the Pioneer amplifier. Default setting is the

NOR (normal) position.

If the output remains low even when the headunit volume is turned up, turn the volume to a lower level (clockwise). If distortion occurs when the headunit volume is turned up, turn these volumes to a higher level (counterclockwise).

- If using only one input plug, set the gain volumes for speaker outputs A, B, and C to the same position.
- For use with an RCA equipped stereo (standard output of 500 mV), set to the **NOR** (normal) position. For use with an RCA equipped Pioneer stereo with maximum output of 4 V or more, adjust level to match that of the stereo output.
- For use with an RCA equipped stereo with output of 4 V, set to the **H** (High) position.

④ LPF (low-pass filter)/HPF (high-pass filter) select switch*

Switch the settings based on the connected speaker.

- When the Subwoofer is connected: Select **LPF**. This eliminates high range frequency and outputs low range frequency.
- When the full range speaker is connected: Select **HPF** or **OFF**. **HPF** eliminates low range frequency and output high range frequency. **OFF** outputs the entire frequency range.

⑤ INPUT SENS switch

Select **RCA** for RCA level input signals or **SP** for Speaker level input signals.

⑥ SPEAKER SETTING (output power switch)

Switch the output power according to the connected speaker.

⑦ SPEAKER SETTING (output channel switch)

Switch the number of channels according to the connected speaker. When the Subwoofer is connected, select **MONO**, when the full range speaker is connected, select **2CH**.

⑧ FREQ (Hz) (cut off frequency) volume*

Cut off frequency selectable from 50 Hz to 500 Hz if the **LPF/HPF** select switch is set to **LPF** or **HPF**. For precise frequency information, refer to *Precise Frequency Selection Chart*.

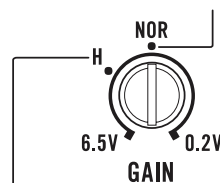
* These controls are provided for Channels A, B, and C, respectively.

Setting gain properly

- Protective function included to avoid malfunction of the unit and/or speakers due to excessive output, improper use or improper connection.
- When outputting high volume sound etc., this function may cut off the output for a few seconds as a normal function, Output will be restored when the volume of the headunit is turned down.
- A cut in sound output may indicate improper setting of the gain volume. To ensure continuous sound output with the headunit at a high volume, set the amplifier gain volume to a level appropriate for the preout maximum output level of the headunit, so that volume can remain unchanged and to avoid distortion caused by signal waveform clipping at the amplifier input.
- Even with correct volume and gain settings, the unit sound may cut out periodically. In such cases, please contact an authorized Pioneer Service Company.

Gain volume of this unit

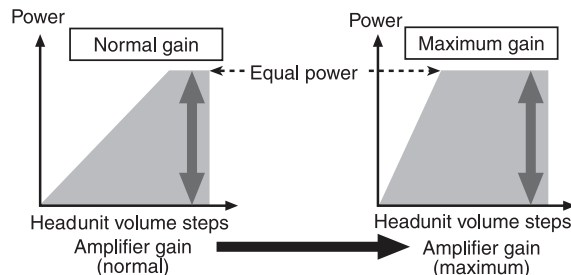
0.5 V (Maximum preout level=2 V)



Maximum preout level=4V

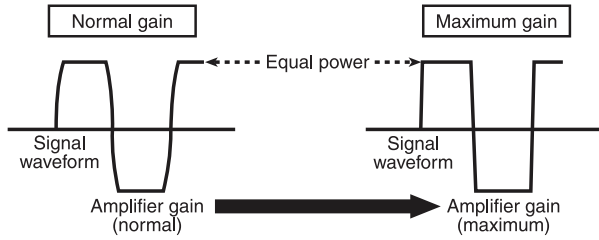
Above illustration shows **NOR** (normal) gain setting.

Relationship between amplifier gain and headunit output power



If amplifier gain is raised improperly, this will simply increase distortion, with little increase in power.

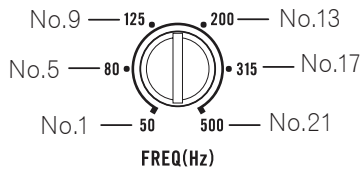
Signal waveform when outputting at high volume using amplifier gain volume



If the signal waveform is distorted due to high output, even if the amplifier gain is raised, the output power will change only slightly.

Precise Frequency Selection Chart

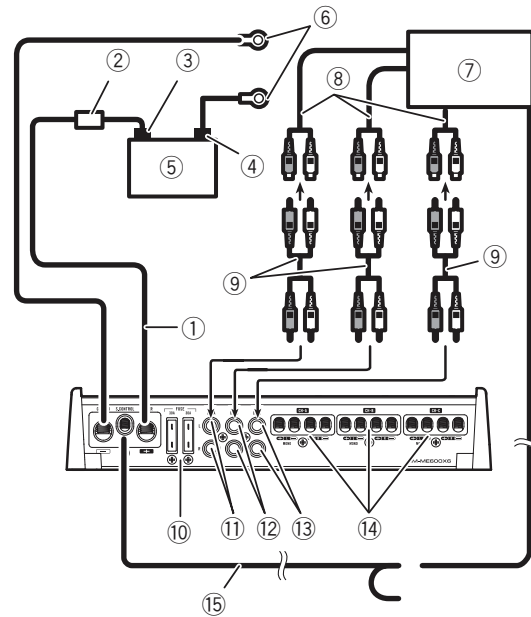
The numbers in the illustration correspond to the Step Number.



Step Number	Frequency (Hz)
1	50
2	56
3	63
4	71.5
5	80
6	90
7	100
8	113
9	125
10	143
11	160
12	180
13	200
14	225
15	250
16	285
17	315
18	335
19	400
20	450
21	500

Connecting the units

Connection diagram



- ① Battery wire (sold separately)
 - The maximum length of the wire between the fuse and the positive ⊕ terminal of the battery is 30 cm (12 in.).
 - For the wire size, refer to *Connecting the power terminal*. The battery wire, the ground wire and the optional direct ground wire must be same size. After making all other connections at the amplifier, connect the battery wire terminal of the amplifier to the positive ⊕ terminal of the battery.
- ② Fuse (80 A) (sold separately)
Each amplifier must be separately fused at 80 A.
- ③ Positive ⊕ terminal
- ④ Negative ⊖ terminal
- ⑤ Battery (sold separately)
- ⑥ Ground wire, Terminal (sold separately)
The ground wires must be same size as the battery wire.
- ⑦ Headunit with RCA output jacks (sold separately)
- ⑧ External output
- ⑨ Connecting wire with RCA pin plugs (sold separately)
- ⑩ Fuse (40 A) × 2
- ⑪ RCA input jack A
- ⑫ RCA input jack B
- ⑬ RCA input jack C
- ⑭ Speaker output terminals

Please see the following section for speaker connection instructions. Refer to *Connections when using the speaker input wire*.

- ⑮ System remote control wire (sold separately)

Note

INPUT SELECT switch must be set. For details, see *Setting the unit*.

Before connecting the amplifier

WARNING

- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap sections in contact with metal parts in adhesive tape.
- Never cut the insulation of the power supply to feed power to other equipment. Current capacity of the wire is limited.

CAUTION

- If the system remote control wire of the amplifier is connected to the power terminal via the ignition switch (12 V DC), the amplifier will remain on with the ignition whether the headunit is on or off, which may exhaust battery if the engine is at rest or idling.
- Install and route the separately sold marine grade battery wire, marine grade ground wire, speaker wires and the amplifier as far away as possible from the radio antenna, antenna cable, tuner and any communications equipment and wiring.

About suitable specification of speaker

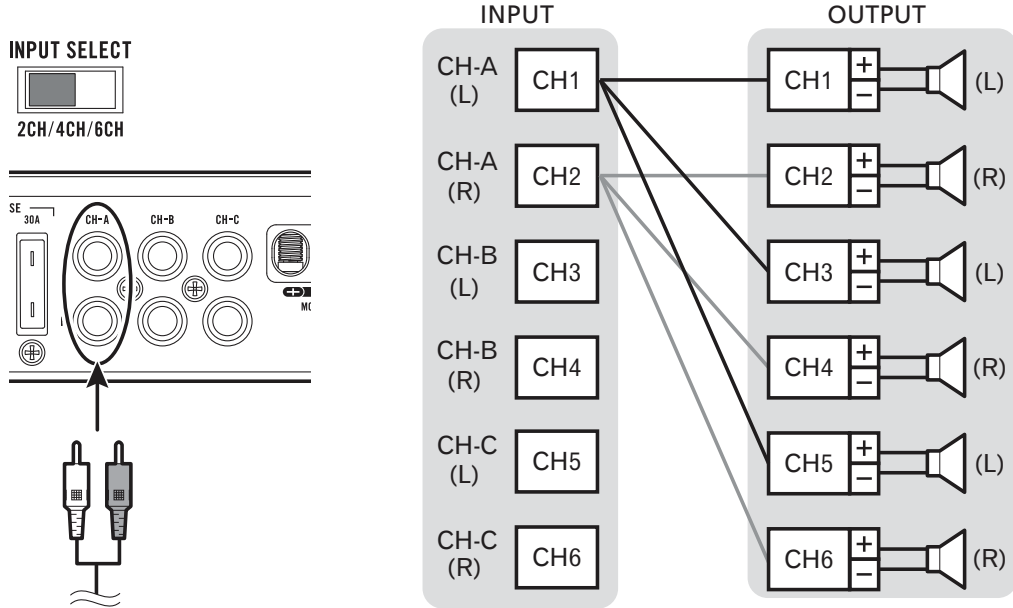
Regarding the speaker to be connected to the amplifier, use a speaker having a rated input capacity more than the rated output capacity of the amplifier. If this condition is not met, there is a risk of fire, smoke, or damage. The speaker impedance is 2Ω to 8Ω.

Speaker setting and I/O

Corresponding I/O for the number of input channels

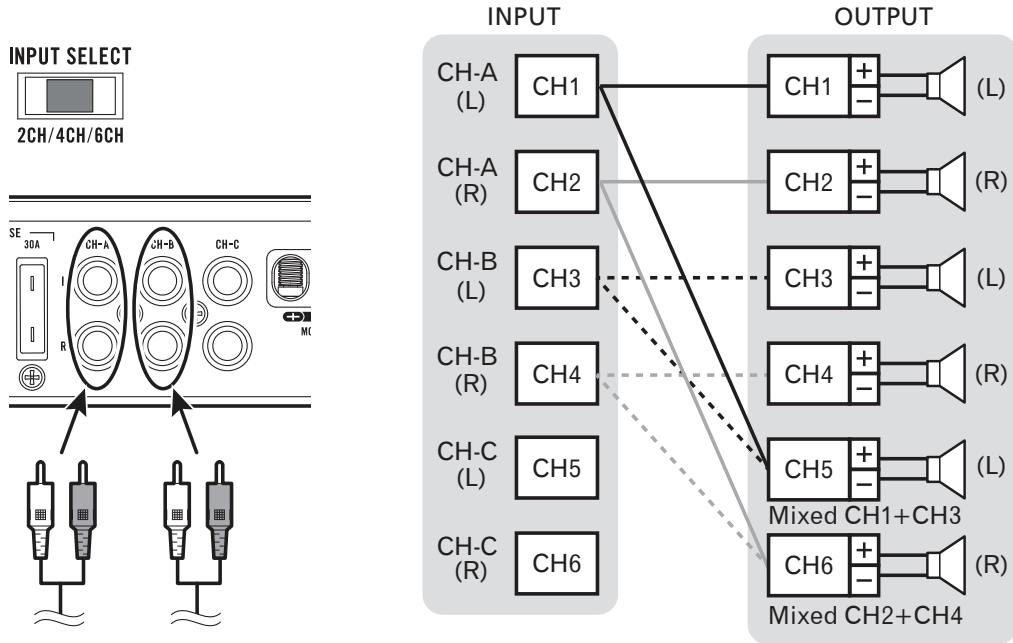
Input: Two-channel / Output: Six-channel

- Slide **INPUT SELECT** switch to **2CH** position and connect wires with RCA pin plugs (sold separately) to CH-A.



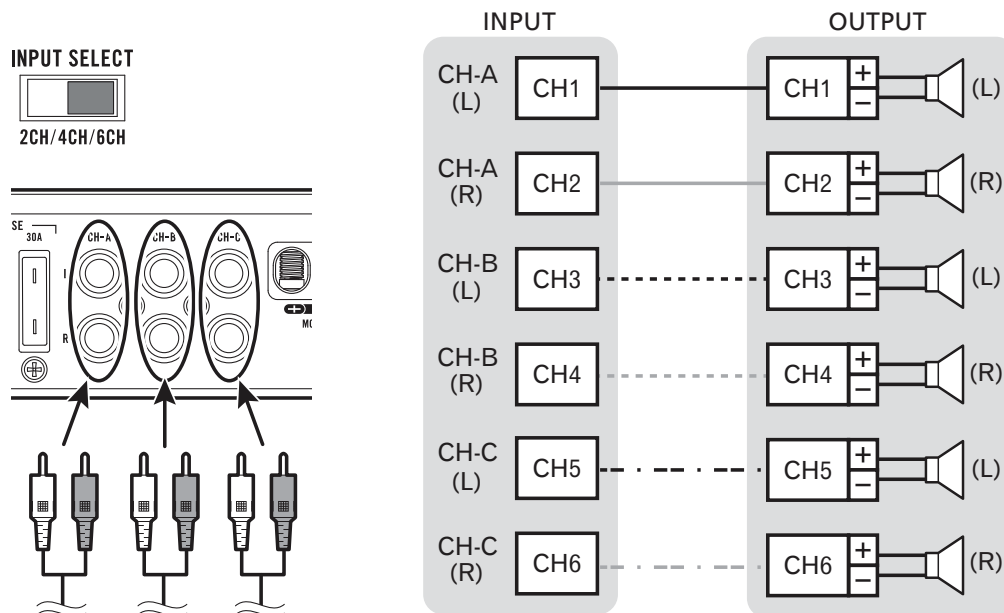
Input: Four-channel / Output: Six-channel

- Slide **INPUT SELECT** switch to **4CH** position and connect wires with RCA pin plugs (sold separately) to CH-A and CH-B.



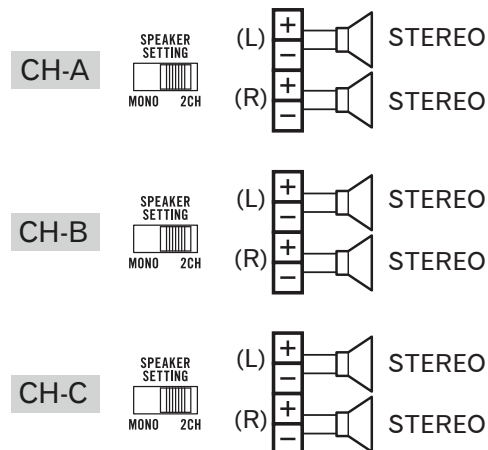
Input: Six-channel / Output: Six-channel

- Slide **INPUT SELECT** switch to **6CH** position and connect wires with RCA pin plugs (sold separately) to CH-A, CH-B, and CH-C.

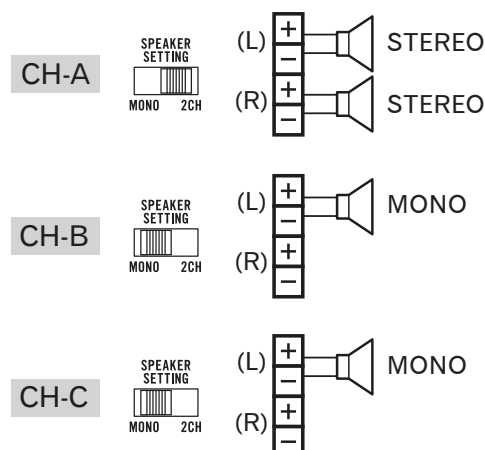


Example of speaker setting and speaker connection

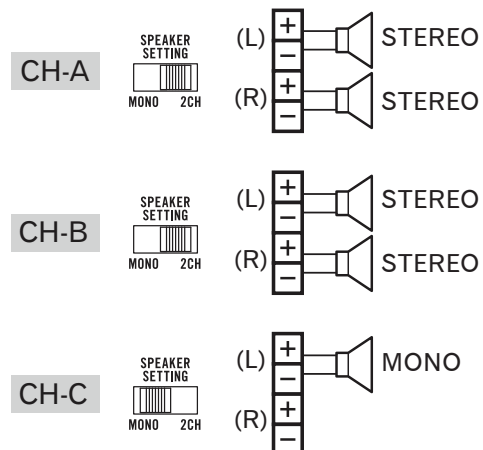
Six channel output



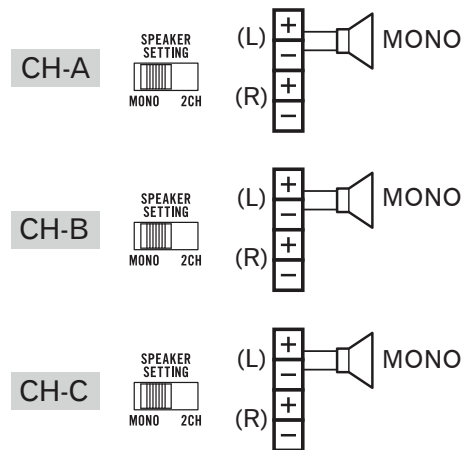
Four channel output



Five channel output



Three channel output



- When in MONO connection, a monaural signal is output which is a mix of the left and right channel signals.

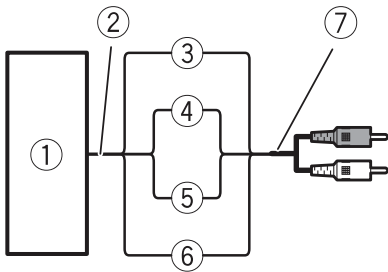
Speaker setting and power output

SPEAKER SETTING		MONO	2CH
NOR	2 Ω	-	100 W
	4 Ω	150 W	75 W
HIGH	2 Ω	-	100 W
	4 Ω	200 W	100 W

Connections when using the speaker input wire

Connect the headunit speaker output wires to the amplifier using the supplied speaker input wire with RCA pin cord.

- Make sure to switch the **INPUT SENS** switch to **SP**.



- ① Headunit
- ② Speaker output
- ③ Red: Right ⊕
- ④ Black: Right ⊖
- ⑤ Black: Left ⊖
- ⑥ White: Left ⊕
- ⑦ Speaker input wire with RCA pin cord to the RCA input jack of this unit

Notes

- If speaker input wires from a headunit are connected to this amplifier, the amplifier will automatically turn on when the headunit is turned on. When the headunit is turned off, the amplifier turns off automatically. This function may not work with some headunits. In such cases, make sure that the front channel is connected correctly. If the function still does not work, please use a system remote control wire (sold separately). If multiple amplifiers are to be connected together synchronously, connect the headunit and all amplifiers via the system remote control wire.

Solderless terminal connections

- Since the wire may become loose over time, it must be periodically inspected and tightened as necessary.
- Do not solder or bind the ends of the twisted wires.
- Fasten while making sure to not to clamp the insulating sheath of the wire.
- Use the supplied hexagonal wrench to tighten and loosen the terminal screw of the amplifier and use it to securely fasten the wire. Be careful to avoid excessive tightening of this screw, which may damage the wire.

Connecting the power terminal

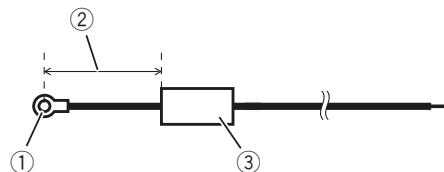
⚠ WARNING

If the battery wire is not securely fixed to the terminal using the terminal screws, there is a risk of overheating, malfunction and injury, including burns.

- Always use the recommended battery and ground wire, sold separately. Connect the battery wire directly to the boat battery positive (⊕) terminal and the ground wire to the boat body.
- Recommended wires size (AWG: American Wire Gauge) is as follows. The battery wire, the ground wire and the optional direct ground wire must be same size.
- Use a wire of 12 AWG to 16 AWG wire for the speaker wire.
- When drilling a cable pass-thru into a bulkhead or barrier wall, route the cable through carefully and seal the hole to prevent fumes from seeping from engine compartment to other areas.

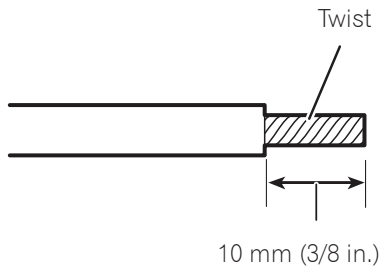
1 Route battery wire from engine compartment to the boat interior.

After completing all other amplifier connections, finally connect the battery wire terminal of the amplifier to the positive ⊕ battery terminal.

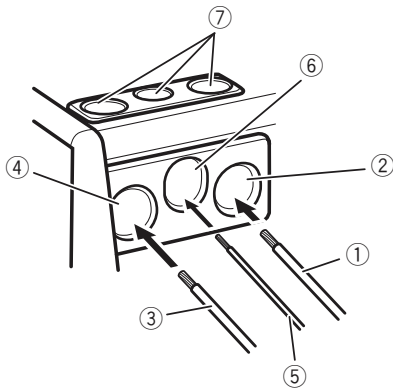


- ① Positive ⊕ terminal
- ② Battery wire (sold separately)
The maximum length of the wire between the fuse and the positive ⊕ terminal of the battery is 30 cm (12 in.).
- ③ Fuse (80 A) (sold separately)
Each amplifier must be separately fused at 80 A.

- 2 Use wire cutters or a utility knife to strip the end of the battery wire, ground wire and system remote control wire to expose about 10 mm (3/8 in.) of the end of each of the wires, and then twist the exposed ends of the wires.



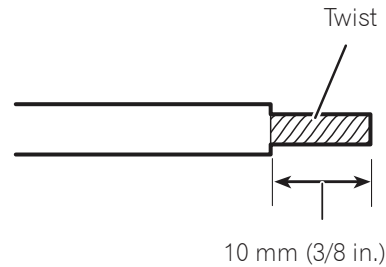
- 3 Connect the wires to the terminal.
Fix the wires securely with the terminal screws.



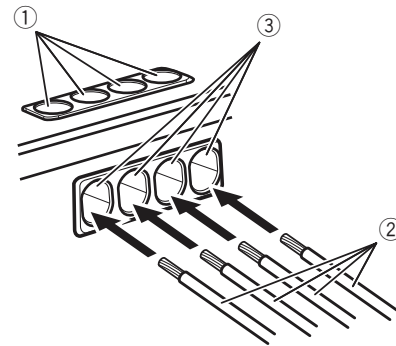
- ① Battery wire
- ② Power terminal
- ③ Ground wire
- ④ GND terminal
- ⑤ System remote control wire
- ⑥ System remote control terminal
- ⑦ Terminal screws

Connecting the speaker output terminals

- 1 Use wire cutters or a utility knife to strip the end of the speaker wires to expose about 10 mm (3/8 in.) of wire and then twist the wire.



- 2 Connect the speaker wires to the speaker output terminals.
Fix the wires securely with the terminal screws.



- ① Terminal screws
- ② Speaker wires
- ③ Speaker output terminals

Installation

Before installing the amplifier

⚠ WARNING

- To ensure proper installation, use the supplied parts in the manner specified. If any parts other than those supplied are used, they may damage internal parts of the amplifier or become loose, causing the amplifier to shut down.
- Do not install in:
 - Places where injury could occur if the boat stops suddenly.
 - Places where it may interfere with the boat's operation.

- Install tapping screws in such a way that the screw tip does not touch any wire. This is important to prevent wires from being cut by vibration of the boat, which can result in fire.
- Make sure that wires do not get caught in the sliding mechanism or touch the legs of a person in the boat as short-circuit may result.

! CAUTION

- Place all cables away from hot places, such as near the heater outlet.
- The optimal installation location differs depending on the boat model. Secure the amplifier at a sufficiently rigid location.
- Check all connections and systems before final installation.

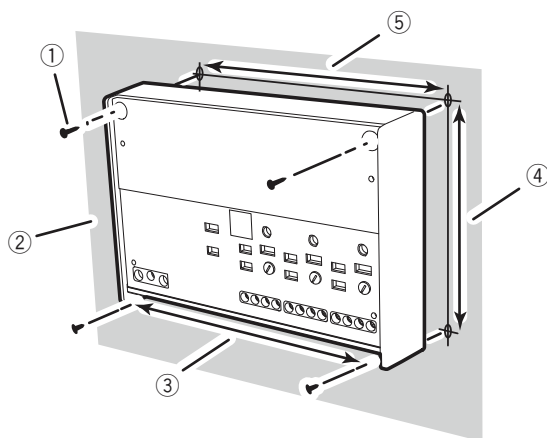
Example of installation on the chassis

1 Place the amplifier in the desired installation location.

Insert the supplied tapping screws (4 mm × 25 mm) into the screw holes and push on the screws with a screwdriver so they make an imprint where the installation holes are to be located.

2 Drill 2.5 mm (1/8 in.) diameter holes in the chassis.

3 Install the amplifier with the use of supplied tapping screws (4 mm × 25 mm).

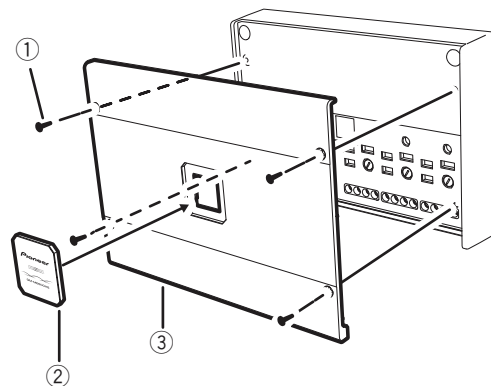


- ① Tapping-screws (4 mm × 25 mm)
- ② Installation surface
- ③ Hole-to-hole distance: 228.3 mm (9 in.)
- ④ Hole-to-hole distance: 160.8 mm (6-11/32 in.)
- ⑤ Hole-to-hole distance: 226 mm (8-29/32 in.)

4 Attach the top panel cover and Badge.

Use the removed screws to attach the top panel cover (fastening torque 0.6 to 0.8 N·m).

Remove the release paper and affix the Badge in the orientation shown in the following illustration.



- ① Screws
- ② Badge
- ③ Top panel cover

Additional information

Specifications

Power source	14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system	Negative type
Current consumption	41 A (at continuous power, 4 Ω, Normal mode) 56 A (at continuous power, 4 Ω, High power mode)
Average current consumption	9.3 A (4 Ω for six channels, Normal mode) 12.5 A (4 Ω for six channels, High power mode) 14.5 A (2 Ω for six channels, Normal mode) 16.7 A (2 Ω for six channels, High power mode)
Fuse	40 A × 2
Dimensions (W × H × D) ..	260 mm × 50.6 mm × 180 mm (10-1/4 in. × 2 in. × 7-1/8 in.)
Weight	2.6 kg (5.7 lbs) (Leads for wiring not included)
Continuous power output ..	75 W × 6 (at 14.4 V, 4 Ω, 20 Hz to 20 kHz, ≤ 1 % THD, Normal mode) 100 W × 6 (at 14.4 V, 2 Ω, 1 kHz, ≤ 1 % THD, Normal mode) 150 W × 3 (at 14.4 V, 4 Ω, MONO, 1 kHz, ≤ 1 % THD,

	Normal mode)
	100 W × 6 (at 14.4 V, 4 Ω, 20 Hz to 20 kHz, ≤ 1 % THD, High power mode)
	100 W × 6 (at 14.4 V, 2 Ω, 1 kHz, ≤ 1 % THD, High power mode)
	200 W × 3 (at 14.4 V, 4 Ω, MONO, 1 kHz, ≤ 1 % THD, High power mode)
Load impedance	4 Ω (2 Ω to 8 Ω allowable)
Frequency response.....	10 Hz to 50 kHz (+0 dB, -3 dB)
Signal-to-noise ratio	95 dB (IHF-A network)
Distortion	0.05 % (10 W, 1 kHz)
Low pass filter:	
Cut off frequency	50 Hz to 500 Hz
Cut off slope	-12 dB/oct
High pass filter:	
Cut off frequency	50 Hz to 500 Hz
Cut off slope	-12 dB/oct
Gain control:	
RCA.....	0.2 V to 6.5 V
Speaker.....	0.8 V to 16 V
Maximum input level / impedance:	
RCA.....	6.5 V / 25 kΩ
Speaker.....	16 V / 12 kΩ

CTA2006 Specifications



Power output.....	75 W RMS × 6 Channels (at 14.4 V, 4 Ω, 20 Hz to 20 kHz and ≤ 1 % THD+N, Normal mode)
	100 W RMS × 6 Channels (at 14.4 V, 4 Ω, 20 Hz to 20 kHz and ≤ 1 % THD+N, High power mode)
S/N ratio	75 dBA (reference: 1 W into 4 Ω)

Accessories

Speaker line input RCA cable × 3
Hexagonal wrench × 1
Mounting screw (4 × 25 mm) × 4
Logo Badge × 1
Fuse cover × 1
Cover for RCA Terminal × 6

Notes

- Specifications and design are subject to modification without notice.
- The average current consumption is nearly the maximum current consumption by this unit when an audio signal is input. Use this value when working out total current consumption by multiple power amplifiers.

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

<https://www.pioneerelectronics.com/PUSA/>

*in Canada
au Canada en Canadá* **<https://www.pioneerelectronics.ca/POCEN/>**

PIONEER CORPORATION

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TEL: (800) 421-1404

PIONEER EUROPE NV

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TEL: (0) 3/570.05.11

PIONEER ELECTRONICS ASIACENTRE PTE. LTD.

2 Jalan Kilang Barat, #07-01, Singapore 159346
TEL: 65-6378-7888

PIONEER ELECTRONICS AUSTRALIA PTY. LTD.

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TEL: (03) 9586-6300

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香港九龍長沙灣道909號5樓
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PIONEER ELECTRONICS (USA) INC.

LIMITED WARRANTY

WARRANTY VALID ONLY IN COUNTRY OF PRODUCT PURCHASE

WARRANTY

Pioneer Electronics (USA) Inc. (Pioneer) warrants that Pioneer® Car Electronics, Speaker, and Accessory Products distributed by Pioneer in the U.S.A. and 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 Pioneer's option, without charge to you for parts or actual repair work. Replacement units and/or parts supplied under this warranty may be new or rebuilt at Pioneer's option.

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 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. 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. Pioneer will pay to return the repaired or replacement product to you within the country of purchase.

PRODUCT WARRANTY PERIOD (Runs from the date of first retail sale)

Parts Labor

Car Electronics, Speakers, and Accessories 1 Year 1 Year

WHAT IS NOT COVERED

This Limited Warranty applies to Pioneer products that are purchased from an authorized Pioneer dealer. IF THIS PRODUCT WAS PURCHASED FROM ANY OTHER SOURCE, 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. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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 cosmetic scratches or any other appearance item; damage or defects resulting from alterations or modifications not authorized in writing by Pioneer; accident, collisions, misuse or abuse; the use of unauthorized parts or labor; improper installation or maintenance; lightning or 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 that would otherwise be provided without charge under this warranty obtained from any source other than Pioneer. Altered, defaced, or removed serial numbers void this warranty.

NO OTHER WARRANTIES

TO THE FULLEST EXTENT PERMITTED BY LAW, PIONEER MAKES NO REPRESENTATIONS OR WARRANTIES OR ACCEPTS ANY CONDITIONS WITH RESPECT TO THIS PRODUCT EXCEPT AS STATED IN THIS DOCUMENT. PIONEER LIMITS ITS OBLIGATIONS UNDER ANY IMPLIED WARRANTIES AND CONDITIONS INCLUDING, BUT NOT LIMITED TO, WARRANTIES AND CONDITIONS, WHETHER EXPRESS OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO A PERIOD NOT TO EXCEED THE WARRANTY PERIOD. NO WARRANTIES OR CONDITIONS SHALL APPLY AFTER THE WARRANTY PERIOD. Some states and provinces do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province. To the extent any provision of this limited warranty is deemed invalid or unenforceable under applicable law, such determination will have no effect on the remaining provisions, which will continue in full force and effect.

TO OBTAIN SERVICE

In the U.S.A. or Canada, to receive warranty service, you need to present your sales receipt showing place and date of original owner's transaction.

Please contact one of the following to obtain service:

Your Authorized Pioneer Dealer - Your Pioneer Dealer may repair or replace your unit or refer you to an Authorized Pioneer Service Company. Your sales receipt should list the contact information (phone number, fax, email, etc.) for your Dealer.

Pioneer Customer Support - Can advise the optimal service option for your model and geographic location. Please call us at 1-800-421-1404 or visit www.pioneerelectronics.com (for USA) or http://www.pioneerelectronics.ca (for Canada), click on "Support," then select "Contact Us."

Your Authorized Pioneer Service Company - Can perform repairs for most Car Electronics, Speaker and Accessory products and advise other options as applicable. Please visit Pioneer's website, click on "Support," and select "Find a Service Center."

Shipping Your Unit for Service - YOU MUST FIRST CONTACT PIONEER TO GET RETURN AUTHORIZATION. PLEASE DO NOT SEND IN YOUR PRODUCT WITHOUT CONTACTING CUSTOMER SUPPORT. If you have a return authorization number, please package the product carefully and send it transportation prepaid by a traceable, insured method to an Authorized Pioneer Service Company or Pioneer. Use adequate padding material to prevent damage in transit. Include your name, address and a telephone number where you can be reached during business hours.

For questions about your product, please contact Pioneer Customer Support as described above or write to us at:

Customer Support
Pioneer Electronics (USA) Inc.
P.O. Box 1720
Long Beach, California 90801 U.S.A.

DISPUTE RESOLUTION

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. In the U.S.A., you are required to use the Complaint Resolution Program before you exercise any rights under, or seek any remedies, created by the Magnuson-Moss Warranty Act but may be entitled to file suit under state law without using the Complaint Resolution Program. 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 Pioneer Dealer from which the Pioneer product was purchased. After the complaint has been explained to the representative, a resolution number will be issued. Within forty (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 Pioneer will not take any action.

RECORD THE PLACE AND DATE OF PURCHASE. KEEP THIS INFORMATION AND YOUR SALES RECEIPT IN A SAFE PLACE

Model No. _____ Serial No. _____ Purchase Date _____

Purchased From _____



PIONEER ELECTRONICS (USA) INC.

GARANTIE LIMITÉE

GARANTIE VALIDE UNIQUEMENT DANS LE PAYS D'ACHAT DU PRODUIT

GARANTIE

Pioneer Electronics (USA) Inc. (ci-après « Pioneer ») garantit que les appareils électroniques, haut-parleurs et produits accessoires automobiles Pioneer® distribués par Pioneer aux États-Unis et au Canada, s'ils sont installés et utilisés conformément au manuel de l'utilisateur qui accompagne l'appareil et ne fonctionnent pas correctement dans des conditions normales d'utilisation en raison d'un défaut de fabrication, seront réparés ou remplacés par un appareil de valeur comparable, à la discrétion de Pioneer, sans frais de pièces ou de réparation. Les appareils de remplacement et/ou pièces fournies en vertu de cette garantie peuvent être neufs ou remis à neuf, à la discrétion de Pioneer.

Cette garantie limitée s'applique au propriétaire initial ou à tout propriétaire ultérieur de ce produit Pioneer pendant la période de garantie, sous réserve que le produit ait été acheté d'un détaillant Pioneer autorisé aux États-Unis ou au Canada. Vous devrez fournir un reçu de caisse ou autre preuve d'achat valide indiquant la date de l'achat initial. Si une réparation s'avère nécessaire, le produit doit être expédié dans la période de garantie, frais de port prépayés, uniquement depuis le pays de l'achat, et tel qu'expliqué dans le présent document. Vous serez responsable du retrait et de l'installation du produit. Pioneer paiera les frais de retour du produit réparé ou de remplacement, à l'intérieur du pays d'achat.

PÉRIODE DE GARANTIE DU PRODUIT (La garantie prend effet à compter de la première vente au détail)

Pièces Main-d'œuvre

Appareils électroniques, haut-parleurs et produits accessoires automobiles 1 an 1 an

ÉLÉMENTS NON COUVERTS PAR LA GARANTIE

Cette garantie limitée s'applique aux produits Pioneer achetés d'un détaillant Pioneer autorisé. **SI CE PRODUIT A ÉTÉ ACHETÉ DE TOUTE AUTRE SOURCE, IL N'Y A PAS DE GARANTIES, EXPLICITES OU IMPLICITES, Y COMPRIS LES GARANTIES IMPLICITES DE QUALITÉ MARCHANDE ET GARANTIES IMPLICITES D'ADAPTATION À UN USAGE PARTICULIER, ET CE PRODUIT EST VENDU « TEL QUEL » ET « AVEC TOUS SES DÉFAUTS ».** PIONEER NE SERA RESPONSABLE D'AUCUN DOMMAGE CONSÉCUTIF ET/OU ACCESSOIRE. Certains États et certaines provinces n'autorisent pas l'exclusion ou la limitation des dommages consécutifs ou indirects, par conséquent, la limitation ou l'exclusion indiquée plus haut peut ne pas s'appliquer à vous.

Pioneer ne garantit aucun des produits énumérés ci-dessus s'ils sont utilisés à des fins commerciales ou professionnelles, ou dans toute application industrielle ou commerciale. Cette garantie ne s'applique pas si le produit a été soumis à une puissance nominale excédant celle indiquée dans les documents s'y appliquant. Cette garantie ne couvre pas les rayures ou tout autre élément esthétique ; les dommages ou défauts résultant de retouches ou modifications non autorisées par écrit par Pioneer ; les accidents, collisions, usages inappropriés ou abusifs ; l'utilisation non autorisée de pièces ou de main-d'œuvre ; l'installation ou la maintenance inadéquate ; les dommages causés par la foudre ou la surtension ; les dommages découlant de fuites ; les dommages découlant de piles défectueuses ; ou l'utilisation de piles non conformes à celles spécifiées dans le manuel de l'utilisateur. Cette garantie ne couvre pas le coût des pièces ou de la main-d'œuvre qui seraient autrement offertes sans frais en vertu de la présente garantie, si elles sont obtenues auprès d'une source autre que Pioneer. Les numéros de série modifiés, oblitérés ou enlevés annulent cette garantie.

INVALIDITÉ DE TOUTES AUTRES GARANTIES

DANS TOUTE LA MESURE AUTORISÉE PAR LA LOI, SAUF DISPOSITION CONTRAIRE DANS LE PRÉSENT DOCUMENT, PIONEER NE FAIT AUCUNE REPRÉSENTATION ET N'OFFRE AUCUNE GARANTIE, NI N'ACCÉPTE AUCUNE CONDITION CONCERNANT CE PRODUIT. PIONEER LIMITE SES OBLIGATIONS EN VERTU DE TOUTES GARANTIES ET CONDITIONS IMPLICITES, Y COMPRIS, MAIS SANS S'Y LIMITER, LES GARANTIES ET CONDITIONS, EXPRESSES OU IMPLICITES, DE COMMERCIALITÉ ET D'ADAPTATION À UN USAGE PARTICULIER, À UNE PÉRIODE N'EXCÉDANT PAS LA PÉRIODE DE GARANTIE. AUCUNE GARANTIE OU CONDITION NE S'APPLIQUERA APRÈS LA PÉRIODE DE GARANTIE. Certains États et certaines provinces n'autorisent pas les limitations sur la durée d'une garantie implicite. Par conséquent, il se pourrait que certaines des limitations ou exclusions précitées ne s'appliquent pas à vous.

Cette garantie vous confère des droits spécifiques légaux, mais vous pouvez bénéficier d'autres droits qui peuvent varier selon les États ou les provinces. Dans la mesure où toute disposition de cette garantie limitée est considérée comme invalide ou inexécutable en vertu du droit applicable, elle sera sans effet sur les autres dispositions, qui resteront pleinement en vigueur.

DEMANDE DE SERVICE

Aux États-Unis et au Canada, pour recevoir un service de garantie vous devez présenter votre reçu de caisse indiquant le lieu et la date de la transaction d'origine.

Pour toute demande de service, veuillez contacter :

Votre détaillant Pioneer autorisé - Votre détaillant Pioneer peut réparer ou remplacer votre appareil ou vous mettre en contact avec une entreprise de services Pioneer autorisée. Vous devriez trouver les coordonnées (numéro de téléphone, numéro de télécopieur, adresse de courriel, etc.) de votre détaillant sur votre reçu de caisse.

Support à la clientèle Pioneer - peut vous conseiller sur le choix de l'option de service optimal pour votre modèle et votre région géographique. Appelez-nous au **1-800-421-1404** ou visitez notre site Web à www.pioneerelectronics.com (pour les États-Unis) ou <http://www.pioneerelectronics.ca> (pour le Canada), cliquez sur « **Soutien** », puis sélectionnez « **Contactez-nous** ».

Votre entreprise de services Pioneer autorisée - peut effectuer des réparations pour la plupart des produits électroniques automobiles, des haut-parleurs et des produits accessoires et peut vous conseiller sur le choix d'autres options, selon le cas. Visitez le site Web de Pioneer, cliquez sur « **Soutien** », puis sélectionnez « **Trouver un Centre de service** ».

Expédition de votre appareil aux fins de service — VOUS DEVEZ D'ABORD CONTACTER PIONEER POUR OBTENIR UNE AUTORISATION DE RETOUR. VEUILLEZ NE PAS ENVOYER VOTRE PRODUIT SANS AVOIR D'ABORD CONTACTÉ LE SERVICE À LA CLIENTÈLE. Si vous avez un numéro d'autorisation de retour, veuillez emballer le produit soigneusement et l'envoyer, frais de port prépayés avec un service d'expédition traçable et assurable, à une société de services Pioneer autorisée ou à Pioneer. Utilisez des matériaux d'emballage coussinés adéquats pour éviter les dommages pendant le transport. Incluez votre nom, votre adresse et un numéro de téléphone où nous pouvons vous joindre pendant les heures de bureau.

Pour toute question concernant votre produit, veuillez contacter le soutien à la clientèle Pioneer comme décrit ci-dessus ou écrivez-nous à :

Customer Support, Pioneer Electronics (USA) Inc., P.O. Box 1720, Long Beach, California 90801 U.S.A.

RÈGLEMENT DES CONFLITS

Dans le cas d'un conflit entre vous et Pioneer après notre réponse à votre demande initiale adressée service à la clientèle (Customer Support), Pioneer met à votre disposition son Programme de résolution des plaintes pour résoudre le conflit. Le Programme de résolution des plaintes est disponible sans frais. Aux États-Unis, vous êtes tenu de recourir au Programme de règlement des plaintes avant d'exercer vos droits ou d'exiger réparation en vertu de la loi sur la garantie « Magnuson-Moss Warranty Act », mais vous êtes en droit d'engager une action en justice en vertu des lois de l'État sans passer par le Programme de résolution des plaintes. Pour avoir recours au Programme de résolution des plaintes, composez le 1-800-421-1404 et décrivez au représentant du service à la clientèle le problème que vous rencontrez et les démarches que vous avez entreprises pour faire réparer le produit pendant la période de garantie, et donnez-lui le nom du détaillant Pioneer autorisé auprès duquel vous vous êtes procuré le produit Pioneer. Une fois que votre plainte a été expliquée au représentant, un numéro de résolution vous sera communiqué. Pioneer étudiera le conflit et, dans un délai de quarante (40) jours après la réception de votre plainte, (1) répondra à votre plainte par écrit pour vous aviser des démarches qu'elle entreprendra pour résoudre le conflit, et indiquera combien de temps ces démarches prendront ; ou (2) répondra à votre plainte par écrit pour vous indiquer les raisons pour lesquelles Pioneer n'entreprendra aucune démarche.

ENREGISTREZ LE LIEU ET LA DATE D'ACHAT. VEUILLEZ GARDER CES INFORMATIONS ET VOTRE REÇU DE CAISSE DANS UN ENDROIT SÛR

N° de modèle _____ N° de série _____ Date d'achat _____

Acheté de _____