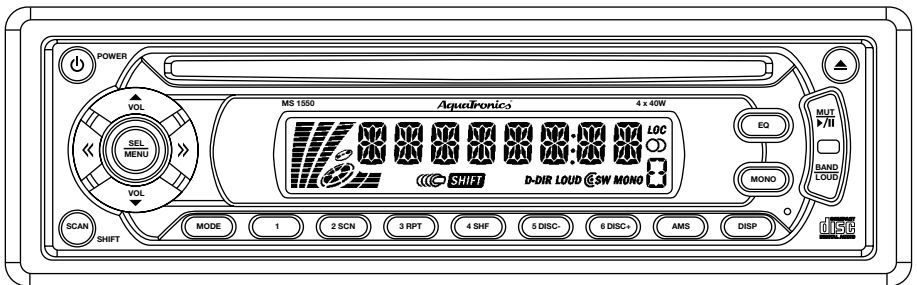


# OWNER'S MANUAL

## Marine Audio System

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- **Electronic AM/FM tuner with US/Euro selection**
- **Single CD player; plays CD, CD-R, CD-R/W**
- **LED backlit controls, silicone rubber keypad**
- **Marine features; solid top cover, corrosion resistant hardware, coated circuit boards, uV stable plastics**
- **Maintains settings with no power applied**
- **CD changer controls (optional MCD10 changer)**
- **Wired remote option (REMMS1550)**
- **Aux input and line level outputs**
- **4x40W power**
- **Two wire power connection (Switched 12V and ground)**

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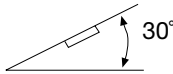
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# INSTALLATION

## Notes:

- Choose the mounting location where the unit will not interfere with normal vehicle operation.
- Before finally installing the unit, connect the wiring temporarily and make sure the unit and the system work 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 to holes or other modifications of the vehicle.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.



- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.

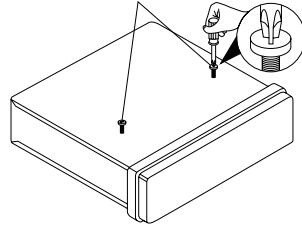
## DIN FRONT/REAR-MOUNT

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 the unit chassis). For details, refer to the following illustrated installation methods.

## TAKE OUT SCREW BEFORE INSTALLATION

Before install the unit, please remove the two screws.

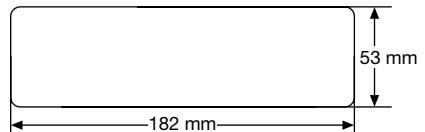
Take out screw before installation



## DIN FRONT-MOUNT

### Installation Opening

This unit can be installed in any dashboard having an opening as show below:

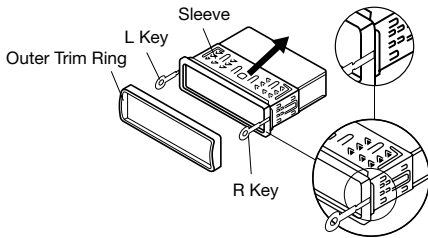


## Installing the unit

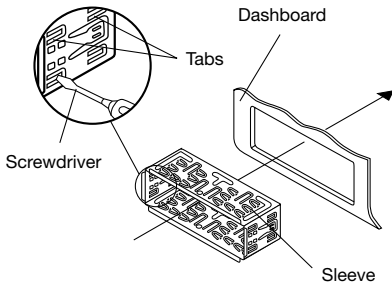
Be sure you test all connections first, and then follow these steps to install the unit.

1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle's negative (-) battery terminal.
2. Disconnect the wire harness and the antenna.
3. Lift the top of the outer trim ring then pull it out to remove it.
4. The two supplied keys release tabs inside the unit's sleeve so you can remove it. One key is for the right side and the other is for the left side. Insert the keys as far as they will go (with the notches facing up) into the appropriate slots at the middle left and right sides of the unit. Then slide the sleeve off the back of the unit.

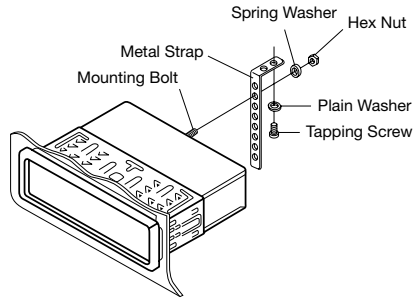
# INSTALLATION



5. Mount the sleeve by inserting the sleeve into the opening of the dashboard and bend open the tabs located around the sleeve with a screwdriver. Not all tabs will be able to make contact, so examine which ones will be most effective. Bending open the appropriate tabs behind the dashboard to secure the sleeve in place.



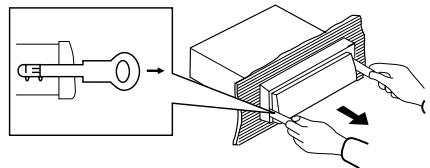
6. Reconnect the wire harness and the antenna.
7. Slide the unit into the sleeve until it locks into place, being careful not to pinch any wires or cables.
8. To further secure the unit, use the supplied metal strap to secure the back of the unit in place. Use the supplied hardware (Hex Nut (M5mm) and Spring Washer) to attach one end of the strap to the mounting bolt on the back of the unit. If necessary, bend the metal strap to fit your vehicle's mounting area. Then use the supplied hardware (Tapping Screw (5x25mm) and Plain Washer) to attach the other end of metal strap to a solid metal part of the vehicle under the dashboard. This strap also helps ensure proper electrical grounding of the unit.



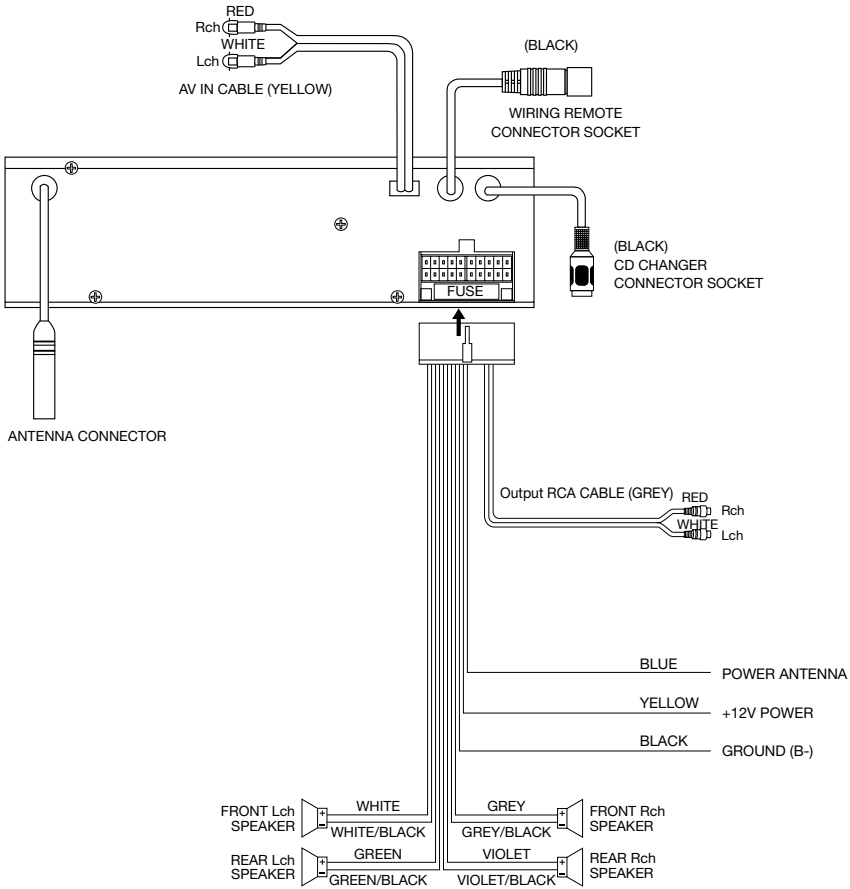
9. Reconnect the cable to the vehicle battery's negative (-) terminal.

## Removing the unit

1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle battery's negative (-) terminal.
2. Remove the metal strap attached the back of the unit (if attached).
3. Lift the top of the outer trim ring then pull it out to remove it.
4. Insert both of the supplied keys into the slots at the middle left and right sides of the unit, then pull the unit out of the dashboard.



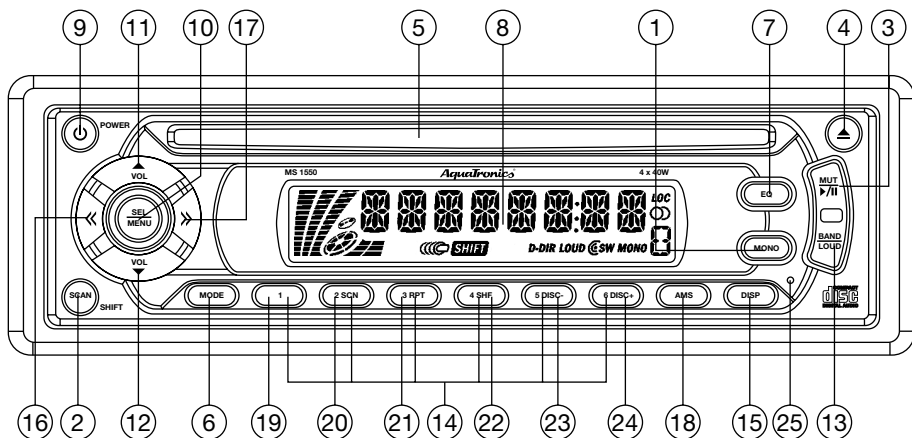
# WIRING CONNECTION



Note: This unit is designed to use a switched 12V power lead such as the vehicle's IGN lead or the ACC lead. It is not recommended to use a constant 12V supply (MEM) for power.

# OPERATION

## LOCATION OF KEYS

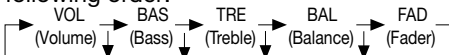


### SWITCHING ON/OFF THE UNIT

Switch on the unit by pressing any button (except and ▲ button (4)). When system is on, press **POWER** button (9) to turn off the unit.

### SOUND ADJUSTMENT

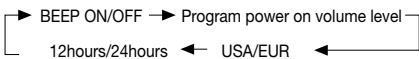
Press **SEL/MENU** button (10) shortly to select the desired adjustment mode. The adjustment mode will change in the following order:



The selected function can then be adjusted by pressing the **VOL ▲** button (11) or the **VOL ▼** button (12) to select your desired settings as shown in the diagram.

### MENU SELECTION FUNCTION

Press and hold the **SEL/MENU** button (10) for 2-3 seconds to enter menu select function, then step short press **SEL/MENU** (10) to select different set mode and separately to press **VOL ▲** button (11) or **VOL ▼** button (12) to select your desired settings as shown in the diagram.



For details, please see below:

### BEEP ON/OFF

- When the beep is ON, pressing any key will generate a tone in the speaker.
- When the beep is OFF, no tones will be generate.

### Program power on volume level

In this mode, you can set the desired volume level when the unit turns on.

### USA/EUR

- USA radio spacing is 200k for FM and 10k for AM. This is the default frequency spacing.
- European radio spacing is 50k for FM and 9k for AM.

### LOUDNESS

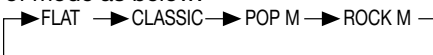
Press **BAND/LOUD** button (13) for several seconds to reinforce the bass output. Press it for several seconds again to release this function.

### MUTE

In radio/AUX IN mode, press **MUTE/▶/||** button (3) to mute audio level. Press the button again to release mute function.

### EQUALIZATION

Press **EQ** button (7) to turn on equalization function and to select desired audio mode. There are four kinds of mode as below:



# OPERATION

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## LIQUID CRYSTAL DISPLAY

Exhibit current frequency and activated functions on the display (8).

## RESET FUNCTION

**RESET** button (25) must be activated with either a ballpoint pen or thin metal object. The **RESET** button is to be activated for the following reasons:

- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.

## RADIO OPERATION

### • SWITCHING TO RADIO MODE

Press **MOD** button (6) shortly to select radio mode, the radio mode appears in the display together with the memory band and frequency.

### • SELECTING THE FREQUENCY BAND

At radio mode, press **BAND / LOUD** button (13) shortly to select the desired band.

The reception band will change in the following order:

▶FM1 →FM2 →FM3 →AM1/MW1 →AM2/MW2

### • SELECTING STATION

Press **»** button (17) or **«** button (16) shortly to activate automatic seek function. Press for several seconds until **"MANUAL"** appears on the display, the manual tuning mode is selected. If both buttons have not pressed for several seconds, they will return to seek tuning mode and **"AUTO"** appears on the display.

### • AUTOMATIC MEMORY STORING & PROGRAM SCANNING

- Automatic memory storing  
Press **AMS** button (18) for several seconds, the radio searches from the current frequency and checks the signal strength until one cycle search is finished. And then 6 strongest stations are stored into the corresponding preset number button.
- Program scanning

Press the **AMS** button (18) briefly to scan the station preset memories. The radio will play each preset location for several seconds, then move on to the next memory location. To stop on a given station, press the **AMS** button again.

### • STATION STORING

Press any one of the preset buttons (14) (1 to 6) to select a station, which had been stored in the memory. Press this button for several seconds (until 2ND beeps), current station is stored into the number button.

### • MONO/STEREO

Press **MONO** button (1) to select mono or stereo mode. You can sometimes improve reception of distant stations by selection mono operation.

### • SCAN

Press **SHIFT/SCAN** button (2) to set function to scan mode, which scanning to higher frequency station with receivable signal and keep on each station for several seconds.

# OPERATION

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## CD OPERATION

### • SWITCHING TO CD MODE

If there is no CD inserted:

Gently insert the CD with the printed side uppermost into the disc slot (5) until you feel some resistance. The CD is drawn into the driver automatically. CD playback begins.

If a CD is already inserted:

Keep pressing **MOD** button (6) shortly until the CD mode display appears.

### • SELECTING TRACKS

Press **◀** button (16) or **▶** button (17) to move to the previous track or the following track. Track number shows on display.

Hold **◀** button (16) or **▶** button (17) to fast reverse or fast forward. CD play starts from when you release the button.

### • PAUSING PLAYING

Press **MUTE/▶/||** button (3) to pause CD player. Press it again to resume play.

### • PREVIEWING ALL TRACKS

Press **SCN** button (20) to play first several seconds of each track on the current disc. Press again to stop intro and listen to track.

### • REPEATING THE SAME TRACK

Press **RPT** button (21) to continuously repeat the same track. Press it again to stop repeat.

### • PLAYING ALL TRACKS IN RANDOM

Press **SHF** button (22) to play all tracks on CD in random order. Press again to cancel the function.

### • EJECTING A DISC

Press **▲** button (4) to stop CD playing and eject the disc from the disc slot (5).

## CDC OPERATION

You can connect a CD changer to the unit with CDC operation version only. Information on handling CDs, inserting CDs and operating the CD changer can be found in the operating instructions supplied with your CD changer.

### • SWITCHING TO CDC MODE

Keep pressing **MOD** button (6) shortly until the CDC mode display appears. Playback begins with the first CD that the CD changer detects.

### • SELECTING TRACKS

Press **◀** button (16) or **▶** button (17) to move to the previous track or the following track. Track number shows on display.

Hold **◀** button (16) or **▶** button (17) to fast reverse or fast forward. CD play starts from when you release the button.

### • PAUSING PLAYING

Press **MUTE/▶/||** button (3) to pause CD player. Press it again to resume play.

### • PREVIEWING ALL TRACKS

Press **SCN** button (20) shortly to play first several seconds of each track on current disc. Press and hold **SCN** button (20) for several seconds to play first several seconds of the first track on each disc in the CD magazine. Press it again to stop intro and listen to track.

### • REPEATING INDIVIDUAL TRACKS OR WHOLE CDs

Press **RPT** button (21) shortly to continuously repeat the same track. Press and hold **RPT** button (21) for several seconds to continuously repeat all tracks on the current disc. Press it again to stop repeat.

### • PLAYING ALL TRACKS IN RANDOM

Press **SHF** button (22) shortly to play all tracks on the current disc in random order. Press and hold **SHF** button (22) for several seconds to select a disc in



# OPERATION

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random and play the selected disc in random order. Press it again to cancel the function.

## • **SELECTING DISC**

Press **CD-** button (23) to select previous disc and **CD+** button (24) to select next disc.

You can also use **SHIFT/SCAN** button (2) to select disc. Press the button to enter shift mode and then "SHIFT" will appear on the display. At shift mode, press **◀** button (16) or **▶** button (17) to select previous disc or next disc. If there isn't any operation for several seconds, it will exit shift mode automatically.

## **DISC NOTES:**

### **A. Notes on discs:**

1. Attempting to use nonstandard shape discs (e.g. square, start, heart) may damage the unit. Be sure to use round shape CD discs only for this unit.
2. Do not stick paper or tape etc., onto the label side or the recording side of any discs, as it may cause a malfunction.
3. Dirt, dust, scratches and warping discs will cause misoperation.

### **B. Notes on CD-Rs (recordable**

### **CDs)/CD-RWs (rewritable CDs) :**

1. Be sure to use discs with following marks only for the unit to play:



2. The unit cannot play a CD-R and CD-RW that is not finalized.  
(Please refer to the manual of your CD-R/CD-RW recorder or CD-R/CD-RW software for more information on finalization process).
3. Depending on the recording status, conditions of the disc and the equipment used for the recording, some CD-Rs/CD-RWs may not be played on this unit. (See \*1)

\*1: To have more reliable play back, please see following recommendations:

- a. Use CD-RWs with speed 1x to 4x and write with speed 1x to 2x.
- b. Use CD-Rs with speed 1x to 8x and write with speed 1x to 2x.
- c. Do not play a CD-RW which has been written for more than 5 times.

# SPECIFICATION

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## GENERAL

|                           |                                |
|---------------------------|--------------------------------|
| Power Supply Requirements | : DC 12 Volts, Negative Ground |
| Chassis Dimensions        | : 178 (W) x 160 (D) x 50 (H)   |
| Tone Controls             |                                |
| - Bass (at 100 Hz)        | : $\pm 10$ dB                  |
| - Treble (at 10 KHz)      | : $\pm 10$ dB                  |
| Maximum Output Power      | : 4 x 40 watts                 |
| Current Drain             | : 15 Ampere (max.)             |

## CD PLAYER

|                       |                   |
|-----------------------|-------------------|
| Signal to Noise Ratio | : More than 65 dB |
| Channel Separation    | : More than 45 dB |
| Frequency Response    | : 40 Hz - 18 KHz  |

## RADIO

|                           | <b>For 2 Bands<br/>(Europe)<br/>FM</b> | <b>For 2 Bands<br/>(U.S.A.)<br/>FM</b> |
|---------------------------|--|--|
| Frequency Coverage        | : 87.5 to 108 MHz                      | 87.5 to 107.9 MHz                      |
| IF                        | : 10.7 MHz                             | 10.7 MHz                               |
| Sensitivity (S/N = 30 dB) | : 4 $\mu$ V                            | 4 $\mu$ V                              |
| Stereo Separation         | : > 25 dB                              | > 25 dB                                |
|                           | <b>MW</b>                              | <b>AM</b>                              |
| Frequency Coverage        | : 522 to 1620 KHz                      | 530 to 1720 KHz                        |
| IF                        | : 450 KHz                              | 450 KHz                                |
| Sensitivity (S/N = 20 dB) | : 36 dBu                               | 36 dBu                                 |

## TROUBLE SHOOTING

Before going through the checklist, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

| Symptom   | Cause  | Solution  |
|---|--|---|
| No power.   | The car ignition switch is not on.                                 | If the power supply is connected to the car accessory circuits, but the engine is not moving, switch the ignition key to "ACC". |
|   | The fuse is blown.   | Replace the fuse.   |
| Disc cannot be loaded or ejected.   | Presence of CD disc inside the player.                             | Remove the disc in the player, then put a new one.  |
|   | Inserting the disc in reverse direction.                           | Insert the compact disc with the label facing upward.   |
|   | Compact disc is extremely dirty or defective disc.                 | Clean the disc or try to play a new one.  |
|   | Temperature inside the car is too high.                            | Cool off or until the ambient temperature return to normal.   |
|   | Condensation.  | Leave the player off for an hour or so, then try again.   |
| No sound.   | Volume is in minimum.  | Adjust volume to a desired level.   |
|   | Wiring is not properly connected.                                  | Check wiring connection.  |
| Sound skips.  | The installation angle is more than 30 degrees.                    | Adjust the installation angle less than 30 degrees.   |
|   | The disc is extremely dirty or defective disc.                     | Clean the compact disc, then try to play a new one.   |
| The operation keys do not work.   | The built-in microcomputer is not operating properly due to noise. | Press the RESET button.   |
| The radio does not work. The radio station automatic selection does not work. | The antenna cable is not connected.                                | Insert the antenna cable firmly.  |
|   | The signals are too weak.  | Select a station manually.  |

# WARRANTY

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## 90 DAY / 12 MONTH LIMITED WARRANTY

AUDIOVOX SPECIALIZED APPLICATIONS, LLC (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 90 days from the date of original purchase, such defect(s) will be repaired or replaced (at the Company's option) without charge for parts and repair labor. After the initial 90 day period and for a period of 12 months from the date of the original purchase, the Company will supply at no charge a replacement for any defective part(s).

To obtain repair or replacement within the terms of this warranty, the end user should contact the O.E.M. The product is to be delivered with proof of warranty coverage (e.g. dated bill of sale, and serial number of the unit, and vin#), specification of defect(s), transportation prepaid, to an approved warranty station.

This warranty does not extend to the elimination of externally generated static or noise, to the correction of antenna problems, to costs incurred for removal or reinstallation of the product, or to damage to any tapes, cd's, dvd's, speakers, accessories, or electrical systems.

This warranty does not apply to any product or part thereof which, in the opinion of the Company, has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident. THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE, AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER FOR THE PRODUCT.

This warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 30 DAYS FROM THE DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than that expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages 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.

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