

# *Aviator*

## Touring Edition Owner's Manual

2013 Wright Flyer



# Table of Contents

<a href="#">Table of Contents</a>	Page 2-7
<a href="#">Legend</a>	Page 7
<a href="#">Disclaimer</a>	Page 8
<a href="#">Welcome Aboard</a>	Page 9
<a href="#">Aviator Limited Warranty</a>	Page 10
<a href="#">Component Manufacturers</a>	Page 11
<b><u>Section 1</u></b>	
<b>Owner Information</b>	
<a href="#">Component Manufacturer's Warranties</a>	Page 12
<a href="#">Taking Delivery</a>	Page 12
<a href="#">Making a Service Appointment</a>	Page 12
<a href="#">Organize</a>	Page 12
<a href="#">Waiting at the Repair Facility</a>	Page 12
<a href="#">Dealer Responsibilities</a>	Page 13
<a href="#">Owner Responsibilities</a>	Page 13-14
<a href="#">Customer Delivery and PDI Checklist Sample Forms</a>	Page 15
<b><u>Section 2</u></b>	
<b>Identification and Safety</b>	
<a href="#">Aviator VIN and Serial numbers, Decals and Data Plate</a>	Page 16
<a href="#">Safety Regulations &amp; LP Gas</a>	Page 17-18
<a href="#">Fire Safety</a>	Page 19-21
<a href="#">Tire Safety</a>	Page 22
<a href="#">Basic Tire Maintenance</a>	Page 22
<a href="#">Finding Your Vehicle's recommended Tire Pressure and Load Limits</a>	Page 22
<a href="#">Understanding Tire Pressure and Load Limits</a>	Page 22
<a href="#">Checking Tire Pressure</a>	Page 23
<a href="#">Tire Safety Tips</a>	Page 23
<a href="#">Tire Safety Checklist</a>	Page 23
<a href="#">Tire Fundamentals</a>	Page 23
<a href="#">Tire Identification Breakdown</a>	Page 24-26
<a href="#">Tire Tips</a>	Page 26-27

# Table of Contents

## Section 3

### **Weight Distribution, Loading and Towing**

<a href="#">Loading and Weighing Tips</a>	<b>Page 28-30</b>
<a href="#">Cargo Capacities</a>	<b>Page 28-29</b>
<a href="#">Vehicle Load Limits</a>	<b>Page 30</b>
<a href="#">Loading Tips</a>	<b>Page 30-31</b>
<a href="#">Weighing Tips</a>	<b>Page 31-33</b>
<a href="#">How to Weigh your Aviator</a>	<b>Page 32</b>
<a href="#">Computing your Load and Load Distribution</a>	<b>Page 33</b>
<a href="#">Travel Trailer Hitch and Sway Control</a>	<b>Page 33-34</b>
<a href="#">Safety Chain Installation Instructions</a>	<b>Page 34</b>
<a href="#">Leveling Your Aviator</a>	<b>Page 35-36</b>
<a href="#">Electric Stabilizer Jacks (Optional)</a>	<b>Page 37</b>
<a href="#">Electric Front Stabilizer Jacks (Optional)</a>	<b>Page 37</b>
<a href="#">Electric Rear Stabilizer Jacks (Optional)</a>	<b>Page 37</b>
<a href="#">Stabilizer Jacks (Manual)</a>	<b>Page 37</b>

# Table of Contents

## Section 4

### Living Quarters, LP and Electrical

<a href="#">Living Room Slide Out</a>	Page 38
<a href="#">Prolonged Occupancy</a>	Page 39
<a href="#">Condensation</a>	Page 39
<a href="#">Tips to Help Contain Humidity in your Aviator</a>	Page 40
<a href="#">Safety Devices</a>	Page 41-42
<a href="#">Smoke Detector</a>	Page 41
<a href="#">CO Detector</a>	Page 42
<a href="#">LP Detector (General)</a>	Page 42
<a href="#">LP Gas</a>	Page 43-46
<a href="#">LP Regulator</a>	Page 44
<a href="#">LP Regulator Freeze-up</a>	Page 45
<a href="#">Tips to prevent LP regulator Freeze-up</a>	Page 45
<a href="#">Other Cold Weather Factors</a>	Page 45
<a href="#">LP Pigtail</a>	Page 46
<a href="#">LP Detector Use</a>	Page 46
<a href="#">Electrical System</a>	Page 47
<a href="#">Connecting to an Outside Power Source</a>	Page 47
<a href="#">General Electrical Information</a>	Page 48
<a href="#">Batteries</a>	Page 48-49
<a href="#">Battery Maintenance</a>	Page 49
<a href="#">Battery Safety</a>	Page 50
<a href="#">Battery Charging</a>	Page 50
<a href="#">Power Converter (Overview)</a>	Page 51
<a href="#">Power Converter/Battery Charger</a>	Page 51
<a href="#">Ground Fault Circuit Interrupter (GFCI)</a>	Page 52
<a href="#">Testing the GFCI Circuit</a>	Page 53
<a href="#">VAC Circuit Breakers</a>	Page 53
<a href="#">12 Volt Fuses</a>	Page 53

# Table of Contents

## **Section 5** **Plumbing**

<a href="#">Plumbing</a>	<b>Page 54</b>
<a href="#">Fresh Water</a>	<b>Page 54</b>
<a href="#">External Hook-Up (City Water Inlet Connection)</a>	<b>Page 54</b>
<a href="#">Attaching to an Outside Source of Water (City Water Inlet Connection)</a>	<b>Page 54</b>
<a href="#">To Disconnect from an Outside Source of Water</a>	<b>Page 55</b>
<a href="#">Filling the Fresh Water Tank</a>	<b>Page 55-56</b>
<a href="#">Water Pump</a>	<b>Page 57</b>
<a href="#">Water Pump (Operation)</a>	<b>Page 57</b>
<a href="#">Initial Start-up of the Water System</a>	<b>Page 57</b>
<a href="#">Monitor Panel</a>	<b>Page 58</b>
<a href="#">Tank Heaters (Optional)</a>	<b>Page 58</b>
<a href="#">Sanitizing the Fresh Water System</a>	<b>Page 59</b>
<a href="#">Sanitizing the System</a>	<b>Page 59</b>
<a href="#">Water System Winterization</a>	<b>Page 60-62</b>
<a href="#">Winterizing with Compressed Air</a>	<b>Page 60</b>
<a href="#">Winterizing with RV Approved Antifreeze Only</a>	<b>Page 61-62</b>
<a href="#">De-Winterizing your Aviator</a>	<b>Page 62</b>
<a href="#">Waste Water System</a>	<b>Page 63</b>
<a href="#">Black Tank Flush Inlet</a>	<b>Page 63</b>
<a href="#">Holding Tanks</a>	<b>Page 64</b>
<a href="#">To Empty the Holding Tanks</a>	<b>Page 65</b>
<a href="#">To Ensure Trouble-free Waste Water Operation</a>	<b>Page 65</b>
<a href="#">Toilet</a>	<b>Page 66</b>
<a href="#">Water System Maintenance and Troubleshooting</a>	<b>Page 67</b>

# Table of Contents

## Section 6 Appliances

<a href="#">Appliances</a>	Page 68
<a href="#">Cooktop</a>	Page 68
<a href="#">To Prevent Fire or Smoke Damage (Cooktop)</a>	Page 68-69
<a href="#">Lighting the Cooktop Surface Burners</a>	Page 70
<a href="#">To Bleed Air from Cooktop LP Line</a>	Page 70
<a href="#">Cooktop Match Lit Ignition</a>	Page 70
<a href="#">Cooktop Piezo Ignition</a>	Page 70-71
<a href="#">If the Cooktop Piezo Ignitor is not functioning</a>	Page 71
<a href="#">Cooktop Shutdown Instructions</a>	Page 72
<a href="#">Convection Microwave Oven (General Use)</a>	Page 72
<a href="#">General Convection Microwave Oven Operation</a>	Page 72-73
<a href="#">Convection Microwave Oven Food</a>	Page 73
<a href="#">Refrigerator</a>	Page 73
<a href="#">Refrigerator Leveling</a>	Page 73
<a href="#">Refrigerator Automatic Energy Selector System (AES)</a>	Page 73
<a href="#">Refrigerator Auto Mode</a>	Page 74
<a href="#">Refrigerator Gas Mode</a>	Page 74
<a href="#">Refrigerator Temperature Control</a>	Page 74
<a href="#">Purging Air from the Refrigerator LP Lines</a>	Page 74
<a href="#">Furnace</a>	Page 75-76
<a href="#">Turning the Furnace On</a>	Page 75
<a href="#">Turning the Furnace Off</a>	Page 75
<a href="#">Water Heater</a>	Page 77-79
<a href="#">Water Heater Automatic Shut Off</a>	Page 77
<a href="#">Water Heater Odor</a>	Page 77
<a href="#">Turn On Water Heater</a>	Page 78
<a href="#">Turn Off Water Heater</a>	Page 78
<a href="#">Water Heater Storage and Draining</a>	Page 79
<a href="#">Water Heater Pressure Relief Valve</a>	Page 79
<a href="#">Water Heater Winterizing</a>	Page 79
<a href="#">Wall Thermostat- Heating and Cooling (Main room)</a>	Page 80
<a href="#">Wall Thermostat Heating (Main room)</a>	Page 80
<a href="#">Wall Thermostat Cooling (Main room)</a>	Page 80
<a href="#">To Turn Roof A/C On (Main room)</a>	Page 80
<a href="#">To Turn Roof A/C Off (Main room)</a>	Page 80
<a href="#">Television (TV)</a>	Page 81
<a href="#">Television (TV) Antenna and Booster</a>	Page 81
<a href="#">Outside Entertainment Center (optional)</a>	Page 82
<a href="#">SD Card</a>	Page 82
<a href="#">Tablet (optional)</a>	Page 82
<a href="#">Blu Ray Player</a>	Page 83
<a href="#">Wireless Router (optional)</a>	Page 83
<a href="#">Fireplace</a>	Page 83
<a href="#">Roof Air Conditioner</a>	Page 84
<a href="#">Second Roof Air Conditioner (optional)</a>	Page 84

# Table of Contents

## Section 7 Care and Maintenance

<a href="#">General Care and Maintenance</a>	Page 85
<a href="#">Fiberglass Exterior</a>	Page 85
<a href="#">Seals and Adhesives</a>	Page 86
<a href="#">Windows and Doors</a>	Page 86-87
<a href="#">Frame, Extrusions and Aluminum Surfaces</a>	Page 88
<a href="#">Roof</a>	Page 88
<a href="#">LP Gas System</a>	Page 89
<a href="#">Exterior Lights</a>	Page 89
<a href="#">Winter Precautions</a>	Page 90
<a href="#">Winter Precautions Water Systems</a>	Page 90
<a href="#">Winter Precautions Food Storage</a>	Page 90
<a href="#">Winter Precautions Heating</a>	Page 90
<a href="#">Winter Precautions Condensation</a>	Page 90
<a href="#">Winter Storage Tips</a>	Page 91
<a href="#">Winter Storage Preparation</a>	Page 92-93
<a href="#">Formaldehyde from Building Materials</a>	Page 94
<a href="#">WaterPur™</a>	Page 94-97
<a href="#">WaterPur™ Operating Instructions</a>	Page 95-97
<a href="#">WaterPur™ Sanitize</a>	Page 96
<a href="#">WaterPur™ Winterize</a>	Page 96
<a href="#">WaterPur™ Operational Note</a>	Page 97
<a href="#">WaterPur™ Warranty</a>	Page 97
<a href="#">WaterPur™ Description</a>	Page 97
<a href="#">Aviator Maintenance/Repair Schedule Records</a>	Page 98-101
<a href="#">Aviator Maintenance/Service Date and Procedure records</a>	Page 102-106

### LEGEND

[Return to Index](#)

Listed below are symbols and descriptions you will find throughout this manual. They are used to alert you to possibly dangerous or hazardous situations. When you see these symbols, please read them carefully and follow the instructions to help prevent damage to your recreational vehicle and for your personal safety.



**DANGER!** (Indicates a hazardous situation which, if not avoided, will result in death or serious injury.) This sign is commonly **RED**.



**WARNING** (Indicates a hazardous situation which, if not avoided, could result in death or serious injury.) This sign is commonly **ORANGE** or gray.



**CAUTION** (Indicates a hazardous situation which, if not avoided, could result in vehicle damage or minor to moderate injury.) This sign is commonly **YELLOW** or gray.

## Disclaimer

[Return to Index](#)

The information provided in this manual is designed to provide helpful information on the subjects discussed. This manual is not meant to be used, nor should it be used, to diagnose or repair any component issue. **FOR DIAGNOSIS OR REPAIR OF ANY ISSUE, CONTACT YOUR DEALER.** Forest River Inc. and its suppliers are neither responsible nor liable for any damages, injuries, or negative consequences from any action, application use or misuse of this manual, to any person reading or following the information in this manual. References are provided for informational purposes only and do not constitute endorsement of Forest River Inc. or any other sources. Readers should be aware that the websites and/or information listed in this manual may change without notice.



**IMPROPER USE OR MISUSE OF THIS INFORMATION COULD RESULT IN  
DAMAGE, VOIDING OF THE WARRANTY, OR INJURY.**





## **WELCOME ABOARD**

[Return to Index](#)

WELCOME to the Forest River family and thank you for selecting Aviator by Forest River, Inc. Congratulations for choosing a lifestyle that will provide you the freedom to enjoy recreation wherever you may choose.

This owner's manual is designed as a *Quick Reference* guide for the operation and care of your new Aviator. For more complete instructions regarding safety, maintenance and operation of the items used in the manufacturing of your new Aviator, carefully read the booklets supplied by the component manufacturers, or refer to your supplied SD Card. All information contained in this manual relate to your specific model. The booklets supplied by the component manufacturers that are included in your Owner's packet will provide any additional information needed.

Your dealership personnel should be able to answer any questions or concerns you may have regarding your new Aviator. If your dealer is unable to do so, please feel free to contact our Aviator division.

Your Aviator recreational vehicle was built using innovative manufacturing standards set forth by Aviator and Forest River Inc. and following the strict guidelines set forth by the Recreational Vehicle Industry Association (RVIA), as well as complying with the requirements of all applicable state and federal agencies.

Please carefully read the Aviator (1) [One year Limited Warranty](#) included in this manual. Aviator by Forest River, Inc. has no other expressed or implied warranties of any type. You, as the owner, are responsible for providing proper maintenance as outlined in this manual and as set forth in the component manufacturers' booklets.

### ***FAILURE TO PROPERLY MAINTAIN YOUR UNIT COULD RESULT IN LOSS OF WARRANTY COVERAGE.***

Several of our component manufacturers carry their own warranty and require separate warranty information to be filed with them. Please read all component manufacturers owner's manuals provided with your Aviator and file appropriate individual warranty cards as required.

You have joined an elite group and as you begin making great memories using your new Aviator RV, we wish you many exciting and adventurous days of RV camping.

Thank you for choosing to purchase an Aviator Recreational Vehicle by Forest River Inc., a fine product in which design and construction have received the care that quality demands. This important warranty covers many items and is indicative of our desire to stand behind our products and assure our customers' complete satisfaction.

**WARRANTY COVERAGE**

**SUMMARY OF WARRANTY:** Forest River Inc., 55470 CR 1, P.O. Box 3030, Elkhart, Indiana 46515-3030 (Warrantor) warrants to the ORIGINAL CONSUMER PURCHASER ONLY, when purchased from an authorized Forest River Inc. dealer, for a period of (1) one year from date of purchase (Warranty Period), that the body structure of this recreational vehicle shall be free of substantial defects in materials and workmanship attributable to Warrantor.

**EXCLUSIONS FROM THIS WARRANTY:** Warrantor expressly disclaims any responsibility for damage to the unit where damage is due to condensation, normal wear and tear or exposure to elements. Warrantor makes no warranty with regard to, but not limited to, the chassis including without limitation, any mechanical parts or systems of the chassis, axles, tires, tubes, batteries and gauges, routine maintenance, equipment and appliances, or audio and/or video equipment. Their respective manufacturers and suppliers may warrant some of these items. Warranty information with respect to these items is available from your dealer. The Warrantor further makes no warranty with regard to any product used for commercial purposes, as a permanent residence or as a rental unit, or any product not registered and normally used in the United States or Canada.

**LIMITATION AND DISCLAIMER OF WARRANTIES:** WARRANTOR EXPRESSLY LIMITS THE DURATION OF ALL EXPRESS AND IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE EXCEPT IN THOSE STATES THAT DO NOT ALLOW THIS EXCLUSION. WARRANTOR EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AFTER EXPIRATION OF THE WARRANTY PERIOD. No action to enforce express or implied warranties shall be commenced later than (90) ninety days after expiration of the warranty period. There is no warranty of any nature made by the Warrantor beyond that contained in this Warranty. No person has authority to enlarge, amend or modify this Warranty, except this Warrantor. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. **No action to enforce express or implied warranties shall be commenced without prior written notice to the manufacture and/or warrantor at the address listed above of the alleged defect or nonconformity or the authorized repair facility's failed repair attempt and MANUFACTURE, AT ITS DIRECT OPTION, shall have a final opportunity to remedy.**

**DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES:** THE ORIGINAL CONSUMER PURCHASER OF THIS RECREATIONAL VEHICLE AND ANY SUBSEQUENT PURCHASER OF THIS RECREATIONAL VEHICLE, AND ANY PERSON WHO IS INTENDED OR UNINTENDED USER OR BENEFICIARY OF THIS UNIT SHALL NOT BE ENTITLED TO RECOVER FROM WARRANTOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

**WARRANTOR'S OBLIGATIONS:** Warrantor will remedy substantial defects in materials and workmanship caused by Warrantor. Warrantor shall elect to remedy the defect from among the following: repair, replacement or refund. Warrantor may not elect refund unless the Purchaser agrees, or the Warrantor is unable to provide replacement and repair is not commercially practicable. Warranty performance can only be obtained at Warrantor's authorized dealers and service centers and from Warrantor, at the discretion of the Warrantor. All costs incurred in transporting this recreational vehicle for warranty service shall be borne by Purchaser. Warrantor shall remedy the defect within a reasonable amount of time, after appointment and delivery by Purchaser. All of Warrantor's expenses in remedying the defect shall be borne by the Warrantor.

**PURCHASER'S OBLIGATIONS:** Purchaser must complete, sign and return the owner's registration within (10) ten days of purchase to validate this Warranty. The return of this registration is a condition precedent to warranty coverage; failure to return the completed registration to the Warrantor will invalidate this warranty. Purchaser shall deliver this recreational vehicle for warranty service within a reasonable time after discovery of the defect and in no event after expiration of the Warranty period, which Warranty Period is (1) year. All expenses incurred by Purchaser in obtaining warranty service shall be borne by Purchaser. Warranty service shall, whenever possible, be scheduled with the selling dealer, by an appointment in order to avoid possible delays. Purchaser can, if necessary, obtain a list of persons authorized to perform warranty service by contacting Warrantor at the above address. **No action to enforce express or implied warranties shall be commenced without prior written notice to the manufacture and/or warrantor at the address listed above of the alleged defect or nonconformity or the authorized repair facility's failed repair attempt and MANUFACTURE, AT ITS DIRECT OPTION, shall have a final opportunity to remedy.**

**EVENTS DISCHARGING WARRANTOR FROM OBLIGATION UNDER THIS WARRANTY:** Misuse or neglect, including failure to provide reasonable and necessary maintenance, unauthorized alteration, accident, and improper loading, use as a permanent residence, commercial use or leasing of the recreational vehicle shall discharge Warrantor from any obligation under this Warranty.

**PARTS AND DESIGN CHANGES:** Warrantor reserves the right to change the parts and design of its recreational vehicle from time to time without notice and with no obligation to maintain spare parts or make corresponding changes in its products previously manufactured.

**OBTAINING WARRANTY SERVICE:** To insure your local dealer's personal interest in your complete satisfaction, it is recommended that all warranty service, be performed by the authorized dealer from whom you purchased your unit. Following a move or as you are traveling, should warranty service become necessary, such service shall be performed by any authorized dealer in the United States or Canada. Such service shall also, whenever possible, be scheduled by an appointment, in order to avoid possible delays.

**WARRANTY REGISTRATION:** A warranty registration is to be completed by the owner at the time of purchase and returned to the Warrantor. The return of this registration is a condition precedent to warranty coverage; failure to return the completed registration to Warrantor will invalidate this Warranty.

**OTHER WARRANTIES:** As indicated in the paragraph above, entitled 'Exclusions From This Warranty', certain items that are not covered by this Warranty may be warranted separately by their manufacturers or suppliers. In order to validate those warranties, you may also be required to complete and return to the appropriate manufacturer the warranty forms included with the information package. These other warranties may cover, but are not limited to, such items as chassis, axles, tires, tubes, batteries, optional generators, and appliances, which are not covered by this Limited Warranty. For service or parts required for these products it may be necessary to write or call the product manufacturer to obtain the nearest authorized service center location. In requesting parts for separately warranted products from the manufacturer of the product or its authorized service center it may also be necessary to first obtain a warranty work authorization number before the work is done. It may also be necessary to provide the Product Name, Model and Serial Number along with the description of the problem and part needed, plus shipping instructions. See these warranties with respect to their terms and conditions.

**OWNER ASSISTANCE:** Your confidence and good will are important to Forest River Inc., as is maintaining a pleasant relationship with our dealers. We at Forest River, recognize that there may be occasions when a warranty or service problem is not handled to your satisfaction, resulting in misunderstandings. **After discussing the situation with the dealership management, if your problem has not been resolved to your satisfaction, we welcome you to contact the Forest River Customer Service Manager, at the address listed above, Our recommendations for an agreeable solution will be communicated to the local dealer.**

**THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.**

Revised March 2012

# Component Manufacturer contacts

[Return to Index](#)

Item	Manufacturer/Supplier	Phone	Website
TV	Sony/RiverPark	(800) 442-7717	<a href="http://www.riverparkinc.com">www.riverparkinc.com</a>
Blu Ray Player	Sony/RiverPark	(800) 442-7717	<a href="http://www.riverparkinc.com">www.riverparkinc.com</a>
Speakers	Sony/RiverPark	(800) 442-7717	<a href="http://www.riverparkinc.com">www.riverparkinc.com</a>
Exterior Multi Disc Player	Sony/RiverPark	(800) 442-7717	<a href="http://www.riverparkinc.com">www.riverparkinc.com</a>
Router	Linksys/RiverPark	(800) 442-7717	<a href="http://www.riverparkinc.com">www.riverparkinc.com</a>
Tablet	Sony/RiverPark	(800) 442-7717	<a href="http://www.riverparkinc.com">www.riverparkinc.com</a>
Tires	TowMax/Same	(800) 238-6469	<a href="http://www.towmaxtires.com">www.towmaxtires.com</a>
Furnace	Suburban/Same	(423) 775-2131	<a href="http://www.rvcomfort.com">www.rvcomfort.com</a>
Water Heater	Suburban/Same	(423) 775-2131	<a href="http://www.rvcomfort.com">www.rvcomfort.com</a>
Toilet	Thetford/Same	(800) 543-1219	<a href="http://www.thetford.com">www.thetford.com</a>
LP Regulators	Cavagna/National Supply	Via Website	<a href="http://www.cavagnagroup.com">www.cavagnagroup.com</a>
LP Pigtails	M.B. Sturgis/National Supply	(888) 291-6665	<a href="http://www.mbsturgis.com">www.mbsturgis.com</a>
LP DOT Cylinders	National Supply/Same	(574) 295-9200	N/A
Cooktop	Atwood Mobile/Same	(574) 264-2131	<a href="http://www.atwoodmobile.com">www.atwoodmobile.com</a>
Axles	Dexter Axles/Same	(574) 295-7888	<a href="http://www.dexteraxle.com">www.dexteraxle.com</a>
Stabilizer Jacks	Lippert Component/Same	(574) 537-8900	<a href="http://www.lci1.com">www.lci1.com</a>
Front Tongue Jack	Lippert Component/Same	(574) 537-8900	<a href="http://www.lci1.com">www.lci1.com</a>
Windows	Lippert Component/Same	(574) 537-8900	<a href="http://www.lci1.com">www.lci1.com</a>
Fireplace	LaSalle Bristol/Same	(574) 295-4400	<a href="http://www.lasallebristol.com">www.lasallebristol.com</a>
Refrigerator	Dometic/Same	(800) 544-4881	<a href="http://www.dometic.com">www.dometic.com</a>
Awnings	Carefree of Colorado/Same	(800) 621-2617	<a href="http://www.carefreeofcolorado.com">www.carefreeofcolorado.com</a>
Roof A/C	Dometic/Same	(800) 544-4881	<a href="http://www.dometic.com">www.dometic.com</a>
Roof Vents	Maxxair/Same	(800) 780-9893	<a href="http://www.maxxair.com">www.maxxair.com</a>
TV Antenna	Dehco Inc./Same	(800) 621-2278	<a href="http://www.dehco.com">www.dehco.com</a>
Monitor Panel	KIB Enterprises/Same	(800) 250-7051	<a href="http://www.kibenterprises.com">www.kibenterprises.com</a>
Power Converter/ Distribution Panel	WFCO/ Cheng USA	(877) 294-8997	<a href="http://www.wfcoelectronics.com">www.wfcoelectronics.com</a>
Water Pump	Shurflo/Same	(800) 854-3218	<a href="http://www.shurflo.com">www.shurflo.com</a>
Entry Doors and Compartment Doors	Challenger Door/Same	(574) 773-0470	<a href="http://challengerdoor.com">challengerdoor.com</a>

# Section 1

## Owner Information

### **Component Manufacturer's Warranties**      [Return to Index](#)

[Page 11](#) lists the individual component manufacturers which were used in the manufacturing of your Aviator. Be sure to check the manufacturer's literature supplied on your SD Card or in the Aviator RV Owner's packet to confirm whether they require you to register your purchase with them to validate their warranty. These warranties usually apply only to the first owner of the recreational vehicle. We recommend that you send the various warranty registration cards immediately before any time constraints on registration expire.

Component manufacturer's literature is supplied by each individual company according to the specific items used in the production of your Aviator. This information is part of the Owner's packet you received with your Aviator and is also on your SD Card. Inspect this literature with your dealer during the pre-delivery inspection and report any literature shortage to the dealer at that time.

### **Taking Delivery**      [Return to Index](#)

There are two forms the dealer will complete concerning your new recreational vehicle the PDI (Pre-delivery Inspection sheet) and the Warranty Registration Form. If you do not have a copy in your Owners packet, request a copy of these forms from your dealer for your records. They are an important part of the history of your Aviator. A qualified dealer representative will perform a 'walk-through' demonstration which will provide you with important information regarding the operation of your unit. Be sure you fully understand the information given and the proper functioning of your unit to insure you have the best camping experience possible. Your dealer will fully explain all the system functions and will supply component information for items used in the manufacture of your recreational vehicle. A walk through is also included on your SD Card.

### **Making a Service Appointment**      [Return to Index](#)

When you call to schedule your appointment, have the following information available:

- 1.) RV Identification Number (17 letters and digits, sometimes referred to as a serial number).
- 2.) Type of unit.
- 3.) Date of purchase.
- 4.) Description of the problem.
- 5.) History of repairs and repair center location (where the repairs were performed).
- 6.) A calendar with your schedule noted, for convenience in coordinating a service date that works for you and the repair center.

### **Organize**      [Return to Index](#)

Planning ahead and being prompt when having service is beneficial for all. When someone misses their appointment, or arrives late, it disrupts the service schedule for the entire day. Please be courteous, and drop your unit off at the scheduled time, and on the scheduled date. Have a list ready, be specific, and be reasonable with your expectations. Some repairs may require special order parts.

### **Waiting at the Repair Facility**      [Return to Index](#)

For safety reasons, most insurance policies prohibit non-employee personnel to be in the work area. If it is necessary for you to wait until the repairs are completed, most dealers provide you with a safe, comfortable customer lounge.

# Section 1

## Owner Information

### Dealer Responsibilities

[Return to Index](#)

- 1) The dealership is responsible for inspecting both factory and dealer installed components for proper operation. This is known as the pre-delivery inspection and systems check.
- 2) Your dealer is required to provide a thorough and complete walk-through demonstration. This demonstration should provide a good understanding of how your new RV operates.
- 3) The owner's information packet should be presented at this time. This information should include all warranty cards, component information, operation and maintenance instructions relating to your new unit.
- 4) All component warranty forms should be discussed and/or completed at this time. Your selling dealer should assist you in understanding any and all limited warranty provisions, to help you avoid loss of warranty for any reason. Ask any questions you may have before leaving the dealership.
- 5) Your dealer should provide you with information concerning any need for service for your unit, whether in or out of their area. They should provide contact numbers for the dealership both during and after hours, along with contact information for the Aviator division.

### Owner Responsibilities

[Return to Index](#)

- 1) Although your Aviator is a low maintenance unit, there are still a few things that must be properly maintained on your Aviator. Be sure you have service performed in a timely manner. DO NOT ignore a problem. When a problem occurs please contact your selling dealer.
- 2) Familiarize yourself with your Aviator. Observe all the component manufacturers' instructions regarding the use and service of their products and review the information on your SD Card.
- 3) Complete and send in all the warranty cards or register your components on the respected vendors' websites.

**NOTE: MODIFICATIONS TO YOUR AVIATOR, WITHOUT WRITTEN AUTHORIZATION FROM FOREST RIVER, INC., COULD RESULT IN REDUCTION OR LOSS OF WARRANTY COVERAGE. CONTACT YOUR DEALER BEFORE MAKING SUCH CHANGES.**

Notes:

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# Section 1

## Owner Information

### Owner Responsibilities (Cont'd)

[Return to Index](#)

The following is a list of suggestions to assist you in avoiding most warranty issues:

1. Read your warranties and review them with your selling dealer. The dealer's obligation is to educate you regarding the proper and safe operation of your Aviator and all its' components.
2. Be sure to inspect the entire unit and note any service issues.
3. Locate all paperwork and ask any questions you may have before leaving the dealership.

**NOTE: FOREST RIVER, INC. WANTS YOU TO HAVE THE BEST POSSIBLE ADVENTURE WITH YOUR NEW AVIATOR. TO GET THE MOST ENJOYMENT OUT OF YOUR NEW AVIATOR AND TO INSURE YOU FULLY UNDERSTAND HOW YOUR NEW AVIATOR OPERATES, PLEASE ADDRESS ANY QUESTIONS OR CONCERNS YOU MAY HAVE REGARDING YOUR AVIATOR WITH YOUR DEALER BEFORE USING YOUR AVIATOR FOR THE FIRST TIME.**

**NOTE: USE YOUR NEW AVIATOR RESPONSIBLY. YOUR AVIATOR WAS NOT DESIGNED TO BE USED AS A PERMANENT DWELLING, BUT FOR SHORT TERM AND RECREATIONAL USE. IF YOU INTEND TO USE YOUR AVIATOR AS PERMANENT HOUSING, BE ADVISED THAT IT COULD CAUSE PREMATURE WEAR ON YOUR APPLIANCES, FURNACE, WATER SYSTEMS, CARPET, DRAPES, UPHOLSTERY, BEDDING AND INTERIOR SURFACES. THIS PREMATURE WEAR CAUSED BY PERMANENT RESIDENCY MAY BE CONSIDERED *ABNORMAL OR ABUSIVE USE*, AND COULD REDUCE OR IN SOME CASES VOID YOUR WARRANTY COVERAGE. ALSO USING YOUR AVIATOR AS A PERMANENT DWELLING COULD VOID YOUR WARRANTY.**

**NOTE: ANY REPAIRS PERFORMED BY A NON-FOREST RIVER REPAIR CENTER MUST BE PREAUTHORIZED BY THE AVIATOR DIVISON. FAILURE TO DO SO MAY RESULT IN DENIAL, OR PARTIAL RE-IMBURSEMENT.**

THE FOLLOWING IS ADDED AS A REQUIREMENT OF THE  
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA).

IF YOU BELIEVE THAT YOUR VEHICLE HAS A DEFECT WHICH COULD CAUSE A CRASH OR COULD CAUSE INJURY OR DEATH, YOU SHOULD IMMEDIATELY INFORM THE NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA) IN ADDITION TO NOTIFYING THE MANUFACTURER.

IF NHTSA RECEIVES SIMILAR COMPLAINTS, IT MAY OPEN AN INVESTIGATION AND IF IT FINDS THAT A SAFETY DEFECT EXISTS IN A GROUP OF VEHICLES, IT MAY ORDER A RECALL AND REMEDY CAMPAIGN. HOWEVER, NHTSA CANNOT BECOME INVOLVED IN INDIVIDUAL PROBLEMS BETWEEN YOU, YOUR DEALER, OR THE MANUFACTURER. TO CONTACT NHTSA, YOU MAY EITHER CALL THE AUTO SAFETY HOT LINE, TOLL-FREE AT 1-888-327-4236, HEARING IMPAIRED, 1-800-424-9153, (OR 366-0123 IN WASHINGTON, D.C. 20590.) YOU CAN ALSO OBTAIN ADDITIONAL INFORMATION ABOUT VEHICLE SAFETY FROM THEIR WEBSITE, <http://www.safercar.gov>.

# Section 1 Owner Information

Customer Delivery and PDI Checklist Sample Forms

[Return to Index](#)

**FOREST RIVER, INC.**  
**CUSTOMER DELIVERY AND WARRANTY REGISTRATION FORM**  
DEALER TO ASSURE THAT THIS FORM IS PROPERLY COMPLETED & RETURNED TO FOREST RIVER, INC. WITHIN (10) WORKING DAYS AFTER PDI IS PERFORMED. (SEE BACK OF FORM FOR CORRECT MAILING ADDRESS)

**10W041615**      **00000**

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**OWNER'S NAME:** \_\_\_\_\_  
**ADDRESS:** Street: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
**TEL. DATE:** PHONE #: \_\_\_\_\_

**E-MAIL ADDRESS:** \_\_\_\_\_  
**DEALER'S NAME:** \_\_\_\_\_  
**CHASSIS VIN #** \_\_\_\_\_

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**PLEASE MARK EACH ITEM WITH A CHECK OR NA (NOT APPLICABLE)**

ELECTRICAL SYSTEM	FOLDING CAMPER & BUNK END UNITS ONLY	WATER/PLUMBING SYSTEM (CONT.)
120 VOLT SYSTEMS (CIRCUITS, BREAKERS, OPERATION)	COMPLETE SET UP (FINISH) AFTER DEMONSTRATION	TOILET OPERATION
120 VOLT ALTERNATOR GENERATOR OPERATION	FIT & FINISH AND CONDITION OF CANVAS	BLACK TANK CLEANOUT DEMONSTRATED/EXPLAINED
12 VOLT CONVERTER CIRCUITS, FUSES, OPERATION	REMOVE DOLLY WHEELS BEFORE TRAVEL	WATER FILTER OPERATION DEMONSTRATED
GROUND FAULT CIRCUIT INTERRUPTER (GFCI)	RUNNING GEAR/FRAME	ALL FITTINGS TIGHT/NO SYSTEM LEAKS
ALL INTERIOR LIGHTS, RECEPES, SWITCHES	BRAKE ADJUSTMENTS - MAKE ADJUSTANCE IF NECESSARY	P-T-RAPS/VENTS TIGHT/CONNECTED
BATTERY SYSTEM	BRAKE WIRE CONNECTIONS CHECKED	EXTERIOR
MONITOR PANEL OPERATION	COUPLER/UNCOUPLER OPERATION	PAINT GRAPHICS (IMPT. DOWNSIDE) ALL KEYS
PHONE CABLE/SATELLITE FUNCTIONS	OPERATE & LUBE JACKETS NECESSARY	ENTRANCE STEPS LEVEL/SECURE TO FRAME/ALIGNED
AUDIO/VIDEO ENTERTAINMENT SYSTEM FUNCTIONS	TIRE CONDITION & PRESSURE SET @ _____ PSI (INCL. SPARE)	TRIM SEALANTS, WINDOWS, ROOF BODY
PROPANE DETECTOR	WHEEL LUG TORQUE SPECIFIC CHECK @ 50-60-70 MI	AWNING DRUMS/FRAMES/CANVAS CHECKED
SMOKE DETECTOR	SPARE TIRE CHECKED FOR SET PRESSURE CONDITION	FIT, STAY-IN-TUBE
ALL EXTERIOR FANS	LP GAS SYSTEM	STABILIZER JACKS DEMONSTRATED
STABILIZER JACKS (IF ELECTRIC)	LOCATION OF LP LINES & CONNECTIONS SECURE	EXTERIOR MAINTENANCE PROCEDURES (CUP) PAINTED
SHOULDER CORN INSPECTION & OPERATION	OPERATION OF REGULATOR	SLIDE (OUT) IF APPLICABLE
APPLIANCE	EXTERIOR GRILL USE & OPERATION DEMONSTRATED	OPERATION & MANUAL OVERRIDE DEMONSTRATED
RANGE/OVEN	LP BOTTLES FILLED AND IN GOOD CONDITION	INTERIOR/EXTERIOR SEALS CHECKED
WATER HEATER	WATER/PLUMBING SYSTEM	HYDRAULIC OR ELECTRIC PUMP/LINES CHECKED
REFRIGERATOR	NOTABLE WATER INTAKE DRAIN LOCATIONS	SLIDE OUT TOPPER(S) CANVAS/OPERATION CHECKED
AIR CONDITIONER & THERMOSTAT	DEMAND PUMP DEMONSTRATED	GENERAL
WASHER/DRYER	CITY WATER FILL CONNECTIONS	UNIT CLEANED
CENTRAL VACUUM	PAULITY IN TIRE/INCL. W/D-WATER PRESSURE CHECKED	ALL ACCESSORIES (INCLUDING REMOTE) ARE IN UNIT
	WINTERIZING PROCEDURES ARE DEMONSTRATED	ALL WARRANTY FORMS ARE COMPLETED & REVIEWED
	EXTERIOR SHOWER DEMONSTRATED	ALL REQUIRED LITERATURE IS IN UNIT
	BLACK HOLDING TANK LIVE OPERATIONS	ALL OWNERS MANUALS IN UNIT & REVIEWED
	GRIEY HOLDING TANK FLUATE VALVE OPERATIONS	
	FRESH WATER TANK FILL	

**LIST DEALER INSTALLED OPTIONS (THESE ARE NOT COVERED UNDER THE FOREST RIVER, INC. LIMITED WARRANTY)**

**OWNER/DEALER INSPECTION REVIEW**

- EXTERIOR & INTERIOR FIT & FINISH
- OPERATED ALL APPLIANCES, OPTIONAL EQUIPMENT & ACCESSORIES (REVIEWED MAINTENANCE & SAFETY OF LP GAS SYSTEM)
- EXPLAINED WEIGHT RATINGS, LIMITATIONS & PROPER LOAD DISTRIBUTION, RUNNING GEAR/FRAME OR CHASSIS MAINTENANCE
- OPERATED ALL FRESH WATER & PLUMBING COMPONENTS, INCLUDING PROPER WINTERIZATION & DRAIN LOCATIONS
- REVIEWED FOR VEHICLE COVER, HITCH, SWAY CONTROL, SETUP, BRAKE CONTROL & OFFERED A TEST DRIVE WITH MY VEHICLE
- COMPLETE REVIEW OF OWNERS MANUALS & HIGHLIGHT OF SAFETY ISSUES

I have completed the above inspections on this family recreational vehicle to my satisfaction and have been offered a test drive at the time of purchase. I understand that issues regarding damage such as scratches, tears, dents, broken items, etc. will not be warranted except those noted in this space.

I have had the opportunity to review the Forest River, Inc. Limited warranty during the purchase of this unit and I understand that this product is designed to be used for recreational camping and travel. I have been given the opportunity to make notations in the space provided above, have observed or received satisfactory explanations to all questions regarding the items listed during this delivery process.

DATE: \_\_\_\_\_  
 PURCHASER'S SIGNATURE: \_\_\_\_\_  
 DEALER'S SIGNATURE: \_\_\_\_\_ F-0915

**FOREST RIVER, INC., DEALER PDI CHECKLIST**      **10W041615**      **00000**

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**DEALER TO ASSURE THAT THIS FORM IS PROPERLY COMPLETED & RETURNED TO FOREST RIVER, INC. WITHIN (10) WORKING DAYS AFTER PDI IS PERFORMED. (SEE BACK OF FORM FOR CORRECT MAILING ADDRESS)**

DEALER	BRAND	MODEL	E.R. SERIAL #
<b>PLEASE CHECK EACH ITEM THAT APPLIES TO UNIT WHEN ITEM IS INSPECTED</b>			
<b>RUNNING GEAR/FRAME</b>	<b>INTERIOR</b>	<b>EXTERIOR</b>	<b>GENERAL</b>
SHACKLE/BOLTS TIGHT	GENERAL APPEARANCE/CLEANLINESS	WINDOW OPERATIONS	MONITOR SYSTEM PANEL OPERATION CHECKED
CHASSIS BOLTS TIGHT	WINDSHIELD WIPERS OPERATIONAL	HANDSOME/WORK PERFORMANCE CHECKED	PHONE CABLE/SATELLITE FUNCTIONS CHECKED
TIRE CONDITIONS CHECK/PRESSURE SET @ _____ PSI	FRIDGE/REFRIGERATOR	ALL RUNNING LIGHTS/INDICATORS CHECKED	AUDIO/VIDEO ENTERTAINMENT SYSTEM CHECKED
SPARE TIRE CHECKED FOR SET PRESSURE	WATER HEATER	PROPANE DETECTOR OPERATION TESTED	PROPANE DETECTOR OPERATIONAL
WHEEL LUG TORQUE SET PER MFG. SPECS	REFRIGERATOR	SMOKE DETECTOR OPERATIONAL	ALL INTERIOR FANS CHECKED OPERATE
LUBRICATE/CHECK BEARINGS IF 6 MONTHS SINCE DELIVERY TO THE DEALER/MANUFACTURE	WATER HEATER	ALL KEYS PRESENT WITH UNIT	MICROWAVE FUNCTIONS TESTED
BRAKE WIRE PLUMBING CONNECTIONS CHECKED	PROPANE DETECTOR	WINDSHIELD WIPERS OPERATIONAL	HANDSOME/WORK PERFORMANCE CHECKED
ELECTRICAL WIRE ROUTING/CONNECTIONS CHECKED	PROPANE DETECTOR	ALL ACCESSORIES (INCL. REMOTE) IN UNIT	ALL WARRANTY FORMS IN UNIT
GAS LINE ROUTING SECURED TO FRAME	PROPANE DETECTOR	ALL REQUIRED LITERATURE IN UNIT	ALL OWNERS MANUALS IN UNIT (INCL. COMPONENTS)
ALL JACKS OPERATED & CHECKED	PROPANE DETECTOR	DEALER OPTIONS INSTALLATION CHECKED	
STRIPS/SCREWS TO FRAME, EXTERIOR/INTERIOR	PROPANE DETECTOR		
VISUAL CHECK AXLE/CAMBER/WHEEL ALIGNMENT	PROPANE DETECTOR		
IDENTIFICATION TAGS/VIN STAMP CORRECT	PROPANE DETECTOR		
<b>WATER SYSTEM/PLUMBING</b>	PROPANE DETECTOR		
FRESH WATER TANK LINES CONNECTED	PROPANE DETECTOR		
CITY WATER FILL LINE CONNECTED	PROPANE DETECTOR		
ALL FAULTS/TEXTURES - TIGHT/WATER PRESSURE OK	PROPANE DETECTOR		
EXTERIOR SHOWER CONNECTED/TESTED	PROPANE DETECTOR		
TOILET OPERATION CHECKED	PROPANE DETECTOR		
SEWER & HOLDING TANKS FILLED & DRAINED	PROPANE DETECTOR		
GATE VALVES OPERATE/TEST/NO LEAKS	PROPANE DETECTOR		
SHOWER/TUBSINKS, DRAINS HOLD WATER	PROPANE DETECTOR		
ALL TRAPS & VENTS TIGHT/OPERATE	PROPANE DETECTOR		
ALL FITTINGS TIGHT/NO LEAKS	PROPANE DETECTOR		
WATER HEATER BYPASS TEST/FUNCTIONS	PROPANE DETECTOR		
BLACK TANK CLEANOUT TEST/NO LEAKS	PROPANE DETECTOR		
ALL SEALANTS CHECKED AT DRAIN/SINKS, ETC.	PROPANE DETECTOR		
WATER FILTER CONNECTIONS TIGHT	PROPANE DETECTOR		
UNIT WINTERIZED, IF NECESSARY	PROPANE DETECTOR		
NEW BIRMINGHAM IF APPLICABLE	PROPANE DETECTOR		
W/OVER OF PUMP OPERATIONS/LIVE CHECKED	PROPANE DETECTOR		
ROOM SEALS TIGHT/OPEN & CLOSED	PROPANE DETECTOR		

**DEALER COMMENTS:**

DEALER: I CERTIFY THAT THE TESTS & INSPECTIONS LISTED WERE PERFORMED AS INDICATED ON THE PDI CHECKLIST & DONE IN ACCORDANCE WITH ALL ACCEPTABLE INDUSTRY STANDARDS. THE UNIT DESCRIBED ABOVE HAS NO EVIDENCE OF ACCIDENT, MISUSE OR NEGLIGENCE. I ALSO CERTIFY THAT THE LP GAS & 120 VOLT SYSTEMS, THE OPERATION OF ALL COMPONENTS & APPLIANCES, THE COUPLING & UNCOUPLING PROCEDURE, ROAD TIES & ALL WARRANTIES HAVE BEEN VERIFIED & PERFORMED PER THE RESPECTIVE MANUFACTURER'S SPECIFICATIONS. UNIT IS NOW READY FOR CUSTOMER WALK THROUGH AND DELIVERY INSTRUCTIONS.

DEALER TECHNICIAN AUTHORIZED SIGNATURE: \_\_\_\_\_ DATE PDI PERFORMED: \_\_\_\_\_ F-0600

## Section 2

### Identification and Safety

#### Aviator VIN and Serial Numbers, Decals and Data Plate [Return to Index](#)

Your Aviator VIN (vehicle identification number) label is mounted on the front lower roadside corner and on your SD card.

The breakdown of your Aviator VIN is as follows:

VIN #	4X4	T	AV	H	2	1	C	L	123456
Category	1	2	3	4	5	6	7	8	9
	<b>1. World Identifier</b> 4X4 = Forest River			<b>4. Unit Length (ft) =</b> 32'.			<b>7. Model Year=</b> 2012.		
	<b>2. Unit Type=</b> Travel Trailer			<b>5. Number of Axles=</b> 2			<b>8. Plant Location=</b> Plant 57 Century Drive Goshen		
	<b>3. Brand=</b> Aviator			<b>6. Computer generated digit (for security purposes)</b>			<b>9. Sequential #=</b> Assigned to point of manufacturer		

**IMPORTANT:** Always give model, year and the VIN (vehicle identification number) information when ordering parts. Also, we recommend that you keep a copy of that information separate from your Aviator in the event of theft or vandalism. You may be required to supply a copy of this information to the authorities.

Information for your Aviator listing manufacturer, model, and serial numbers for major factory installed appliances and accessories are on your SD Card. This information could be useful to you in the event of theft, vandalism or disaster and also when certain service functions may require it.

Decals and data plates placed throughout the recreational vehicle aid in its safe and efficient operation, or give service instructions. Read all decals, data and instruction plates before operating your Aviator.

#### FOREST RIVER RECREATIONAL VEHICLE SERIAL NUMBER LABEL SAMPLE

MANUFACTURED BY / FABRIQUE PAR:			DATE		
GVWR / PNBV	KG	(LB)			
GAWR (EACH AXLE)	PNBE (CHAQUE ESSIEU)		KG		(LB) TIRES / PNEU
RIMS / JANTE					
COLD INFL. PRESS. / PRESS. DE GONFL. A FROID	KPA		(PSI / LPC)	_SINGLE	_DUAL
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE. THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE.					
CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICULES AUTOMOBILES DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION.					
V.I.N. / N.I.V.:		TYPE/TRAILER TRA/REM		FD-306 REV A	



## Section 2

# Identification and Safety

### Safety Regulations & LP Gas

[Return to Index](#)

The following warnings are posted throughout your recreational vehicle to provide information on LP gas safety. They have been installed not only because of the requirement to do so, but also as a constant reminder to occupants of your Aviator to exercise proper caution when using or being around LP gas appliances and equipment. We are listing them here so you may study them and be sure that you understand and follow them.

#### **⚠ WARNING**

**LP GAS CONTAINERS SHALL NOT BE PLACED OR STORED INSIDE THE LIVING AREA OF A RECREATIONAL VEHICLE. LP GAS CONTAINERS ARE EQUIPPED WITH SAFETY DEVICES WHICH RELIEVE EXCESSIVE PRESSURE BY DISCHARGING GAS INTO THE ATMOSPHERE.**

#### **⚠ WARNING**

**IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEATING.**

Cooking appliances need fresh air for safe operation. Before operation:

1. Open overhead vent or turn on exhaust fan, **AND**
2. Open a window

A warning label is located in the cooking area to remind you to provide an adequate supply of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) will avoid dangers of asphyxiation.

#### **DANGER**

**IT IS ESPECIALLY IMPORTANT THAT COOKING APPLIANCES NOT BE USED FOR COMFORT HEATING AS THE DANGER OF ASPHYXIATION AND/OR CARBON MONOXIDE POISONING IS GREATER WHEN THE APPLIANCE IS USED FOR PROLONGED PERIODS OF TIME.**

## Section 2

# Identification and Safety

Safety Regulations & LP Gas (Cont'd)

[Return to Index](#)

**⚠ WARNING**

**DO NOT STORE LP GAS CONTAINERS, GASOLINE, OR OTHER FLAMMABLE LIQUIDS INSIDE THE VEHICLE AS A FIRE OR EXPLOSION MAY RESULT.**

**⚠ WARNING**

**A WARNING LABEL HAS BEEN LOCATED NEAR THE LP GAS CONTAINER. This label reads: DO NOT FILL CONTAINER(S) TO MORE THAN 80 PERCENT CAPACITY.**

Over-filling the LP gas container can result in uncontrolled gas flow which can cause fire or explosion. A properly filled container will contain approximately 80 percent of its volume as liquid LP gas. An 80 percent automatic shut-off valve has been installed on the LP gas tank which will automatically prevent further filling when the gas volume has reached 80 percent of tank capacity.

The following label has been placed in the vehicle near the range area:

**IF YOU SMELL GAS:**

- Extinguish any open flames, pilot lights and all smoking materials.
- **DO NOT** touch electrical switches.
- Shut off the gas supply at the tank valve(s) or gas supply connection.
- Open doors and other ventilating openings.
- **DO NOT USE THE RANGE HOOD.**
- Leave the area until the odor clears.
- Have the system checked and leakage source corrected before using again.

**⚠ WARNING**

**LP GAS REGULATORS MUST ALWAYS BE INSTALLED WITH THE DIAPHRAGM VENT FACING DOWNWARD. REGULATORS THAT ARE NOT IN COMPARTMENTS HAVE BEEN EQUIPPED WITH A PROTECTIVE COVER. BE SURE THAT THE REGULATOR VENT FACES DOWNWARD AND THE COVER IS KEPT IN PLACE TO MINIMIZE VENT BLOCKAGE WHICH COULD RESULT IN EXCESSIVE GAS PRESSURE CAUSING FIRE OR EXPLOSION.**

## Section 2

# Identification and Safety

### Fire Safety [Return to Index](#)

Fire safety is an important part of owning a recreational vehicle. The following basic rules of fire prevention can help eliminate the possibility of a fire.

1. Never store flammable liquids in the recreational vehicle.
2. Never leave cooking food unattended.
3. Never smoke in bed and always use an ashtray.
4. Never allow children to play with LP gas or electrical equipment.
5. Never use an open flame as a flashlight.
6. Have faulty or damaged wiring and electrical components repaired immediately.
7. Never overload electrical circuits.
8. Should you locate or suspect any LP leaks have them repaired immediately.
9. Keep cooking surfaces clean and free from debris.
10. Don't allow rubbish to accumulate.
11. Never clean with a flammable substance.
12. Spray fabrics annually with a flame retardant.



## Section 2 Identification and Safety

Fire Safety (Cont'd)

[Return to Index](#)

### Safety Tips



**BE SURE THAT EVERYONE IN YOUR AVIATOR IS FAMILIAR WITH THE LOCATION OF ALL EXITS, INCLUDING EXIT WINDOWS. IN THE EVENT OF A FIRE EVACUATE YOUR AVIATOR IMMEDIATELY.**



**BE SURE THAT EVERYONE IN YOUR AVIATOR IS FAMILIAR WITH THE OPERATION AND LOCATION OF THE FIRE EXTINGUISHER.**



**DO NOT ATTEMPT TO USE WATER TO PUT OUT A FIRE.** Water can spread some types of fire and electrocution is possible. Get everyone outside and then determine if you should attempt to extinguish the fire. If it is a large fire or a chemical fire, **DO NOT HESITATE!** Leave the vehicle immediately and call the fire department.



**PORTABLE FUEL BURNING EQUIPMENT INCLUDING WOOD OR CHARCOAL BURNING GRILLS AND STOVES SHALL NOT BE USED INSIDE THE VEHICLE. DOING SO MAY CAUSE A FIRE, EXPLOSION, CARBON MONOXIDE POISONING, OR ASPHYXIATION.**

## Section 2 Identification and Safety

Fire Safety (Cont'd)

[Return to Index](#)



DO NOT USE WATER TO  
EXTINGUISH AN ELECTRICAL FIRE



**DO NOT USE WATER TO EXTINGUISH A FIRE. WATER CAN SPREAD SOME TYPES OF FIRE AND ELECTROCUTION IS POSSIBLE.**

**UNDERWRITER LABORATORIES CLASSIFY FIRES INTO THREE TYPES:**



**A**

**Class A:** Fires in wood, paper, fabric, rubber and certain plastics.



**B**

**Class B:** Flammable liquids such as grease, cooking oils, gasoline or kerosene.



**C**

**Class C:** Electrical fires started from live electrical wires, shorted motors/switches.

**NOTE: THE FIRE EXTINGUISHER PROVIDED WITH YOUR AVIATOR IS A CHEMICAL TYPE SUITABLE FOR EXTINGUISHING SMALL FIRES OF THE CLASS B OR C TYPE. EXTINGUISHERS ARE DESIGNED TO PUT OUT A FIRE IN ITS INITIAL STAGE, NOT IF IT IS BLAZING OUT OF CONTROL. IF A FIRE CANNOT BE APPROACHED WITHIN 10 FEET WITHOUT THE RISK OF CAUSING PERSONAL HARM, IMMEDIATELY EVACUATE YOUR AVIATOR AND CALL 911.**

**'DANGER!' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.**

**'CAUTION' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN MINOR OR MODERATE INJURY.**

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN VEHICLE DAMAGE OR MODERATE INJURY.**

Notes: \_\_\_\_\_

## Section 2

# Identification and Safety

### **Tire Safety**      [Return to Index](#)

Use the following information to make tire safety a regular part of your vehicle maintenance routine.

### **Basic Tire Maintenance**      [Return to Index](#)

Properly maintained tires improve steering, stopping, traction, and load-carrying capability of your vehicle. Under-inflated tires and overloaded vehicles are a major cause of tire failure. Therefore, to avoid flat tires and other types of tire failures you should maintain proper tire pressure, observe tire and vehicle load limits, avoid road hazards and regularly inspect your tires.

### **Finding Your Vehicle's Recommended Tire Pressure and Load Limits**      [Return to Index](#)

The tire information and vehicle certification label contains information on tires and load limits. These labels indicate the vehicle manufacturer's information including:

- Recommended tire size
- Recommended tire inflation pressure
- Gross Vehicle Weight Rating (GVWR-the maximum occupant and cargo weight a vehicle is designed to carry)
- Front and rear gross axle weight ratings (GAWR-the maximum weight the axle systems are designed to carry.)

### **Understanding Tire Pressure and Load Limits**      [Return to Index](#)

Tire inflation pressure is the level of the air in the tire that provides it with load-carrying capacity and affects the overall performance of the vehicle. The tire inflation pressure is a number that indicates the amount of air pressure, measured in pounds per square inch (psi) a tire requires to be properly inflated. (This number is also expressed in kilopascals (kPa) which is a metric measuring system used internationally).

Vehicle manufacturers determine this number based on the vehicle's design load limit which is the greatest amount of weight a vehicle can safely carry and the vehicle's tire size. The proper tire pressure for your vehicle is referred to as the 'recommended cold inflation pressure'. Tire pressure should always be measured when the tire is 'cold' to get an accurate measurement. A cold tire is one that hasn't been driven on for at least 3 (three) hours. As you drive, your tires get warmer causing the air pressure within the tire to increase. Therefore, you cannot get an accurate measurement of tire pressure unless the tire is cold.

Notes: _____ _____ _____ _____
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## Section 2

# Identification and Safety

### Checking Tire Pressure [Return to Index](#)

Because tires are designed to be used on more than one type of vehicle, tire manufacturers list the maximum permissible inflation pressure' on the sidewall. Your Aviator tires are ST225/75R15D tires and the pressure should be maintained at 65 PSI or 448 kPa.

It is important to check your vehicle's tire pressure at least once a month for the following reasons:

- Most tires naturally lose air pressure over time.
  - Tires can lose air suddenly if you drive over a pothole or strike the curb when parking.
  - With radial tires it is usually not possible to determine under inflation by visual inspection.
- For your convenience, purchase a good quality tire pressure gauge to keep in your vehicle.

### Tire Safety Tips [Return to Index](#)

Preventing Tire Damage

- Slow down if you have to go over a pothole or other object in the road.
- Do not run over foreign objects in the roadway, and try not to strike the curb when parking.

### Tire Safety Checklist [Return to Index](#)

- Check tire pressure regularly (at least once a month), including the spare.
- Inspect tires for uneven wear patterns on the tread, cracks, foreign objects, or other signs of wear or trauma.
- Remove bits of glass and any other foreign objects wedged in the tread.
- Make sure your tire valves have valve caps.
- Check tire pressure before going on a long trip.
- Do not overload your vehicle. Check the tire information placard for the maximum recommended load for the vehicle.
- If you are towing a trailer, remember that some of the weight of the loaded trailer is transferred to the towing vehicle.

### Tire Fundamentals [Return to Index](#)

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a tire identification number for safety standard certification and in case of a recall.

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### MAINTENANCE TIP:

When a trailer is being stored for a prolonged period of time, follow the tips listed below to help prolong the life of your tires.

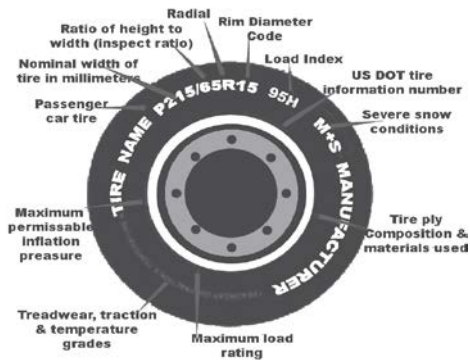


- Keep the tires inflated with the correct air pressure in each tire.
- Protect your tires from the elements by keeping them covered.

## Section 2 Identification and Safety

### Tire Identification breakdown

[Return to Index](#)



#### **P**

Indicates the tire is for passenger vehicles.

#### **Next (3 Digit) Number**

Gives the width in millimeters of the tire from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

#### **Next (2 Digit) Number**

Gives the tire's ratio of height to width, (known as the aspect ratio). Numbers of 70 or lower indicate a short sidewall for improved steering response and better overall handling on dry pavement.

#### **R**

'R' stands for radial. Radial ply construction of tires has been the industry standard for the past 20 years.

#### **Next number**

This two-digit number is the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

#### **Next number**

This two or three digit number is the tire's load index. It is a measurement of how much weight each tire can support. If you are unsure, contact a local tire dealer. Note: You may not find this information on all tires since it is not required by law.

#### **M+S**

'M+S' or 'M/S' indicates that the tire has some mud and snow capability. Most radial tires have these markings; hence, they have some mud and snow capability.

Notes:

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## Section 2

### Identification and Safety

#### Tire Identification breakdown (Cont'd)

[Return to Index](#)

<b>Q</b> 99 mph	<b>H</b> 130 mph
<b>R</b> 106 mph	<b>V</b> 149 mph
<b>S</b> 112 mph	<b>W</b> 168 mph*
<b>T</b> 118 mph	<b>Y</b> 186 mph*
<b>U</b> 124 mph	

For tires with a maximum speed capability over 149 mph, tire manufacturers sometimes use the letters ZR. For those with a maximum speed capability over 186 mph, tire manufacturers always use the letters ZR.

**IMPORTANT NOTE:**

IF IT BECOMES NECESSARY TO REPLACE A TIRE AND YOU FEEL IT IS A WARRANTY ISSUE, MOST TIRE MANUFACTURERS REQUIRE THE D.O.T. NUMBER BE CUT OUT AND RETURNED TO THEM, WITH THE WARRANTY CLAIM, OTHERWISE THE WARRANTY COULD BE VOIDED.

#### U.S. DOT Tire Identification Number

This number begins with the letters "DOT" and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code where it was manufactured, and the last four numbers represent the week and year the tire was built. For example, the numbers 3197 means the 31st week of 1997. The other numbers are marketing codes used at the manufacturer's discretion. This information is used to contact consumers if a tire defect requires a recall.

#### Tire Ply Composition and Materials Used

The number of plies indicates the number of layers of rubber-coated fabric in the tire. In general, the greater the number of plies, the more weight a tire can support. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others.

#### Maximum Load Rating

Load rating indicates the maximum load in kilograms and pounds that can be carried by the tire.

#### Maximum Permissible Inflation Pressure

This number is the greatest amount of air pressure that should ever be put in the tire under normal driving conditions.

#### Speed Rating

Speed rating denotes the speed at which a tire is designed to be driven for extended periods of time. The ratings range from 99 miles per hour (mph) to 186 mph.

Note: This information may not appear on all tires since it is not required by law.

Notes:

## Section 2

# Identification and Safety

### Tire Identification breakdown (Cont'd)

[Return to Index](#)

#### **Tread wear Number**

This number indicates the tire's wear rate. The higher the tread wear number is, the longer it should take for the tread to wear down. For example, a tire graded 400 should last twice as long as a tire graded 200.

#### **Traction Letter**

This letter indicates a tire's ability to stop on wet pavement. A higher graded tire should allow you to stop your car on wet roads in a shorter distance than a tire with a lower grade. Traction is graded from highest to lowest as 'AA', 'A', 'B', and 'C'.

#### **Temperature Letter**

This letter indicates a tire's resistance to heat. The temperature grade is for a tire that is inflated properly and not overloaded. Excessive speed, under inflation or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure. From highest to lowest, a tire's resistance to heat is graded as 'A', 'B', or 'C'.

### Tire Tips

[Return to Index](#)



Make sure all of the lug nuts are secure. Use a torque wrench. **DO NOT** guess.

Inspect tires for uneven wear patterns on the tread, for cracks, for foreign objects or for other signs of wear or trauma.

If you are towing a trailer, remember that some of the weight of the loaded trailer is transferred to the towing vehicle.

Trailers should have the wheel bearings repacked after being in storage for long periods of time.

**CAUTION** DO NOT OVERLOAD YOUR VEHICLE. CHECK THE TIRE INFORMATION PLACARD FOR THE MAXIMUM RECOMMENDED LOAD FOR THE VEHICLE. NEVER EXCEED THE WHEEL MANUFACTURER'S RECOMMENDATIONS.

**WARNING** IT IS IMPORTANT TO MAINTAIN PROPER WHEEL NUT TORQUE TO PROVIDE SAFE AND SECURE ATTACHMENT OF THE WHEEL TO THE HUB/DRUM.

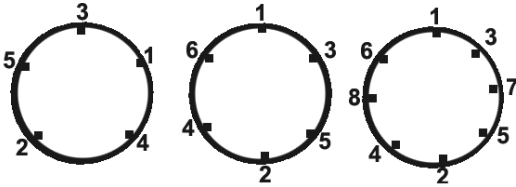
**CAUTION** INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN VEHICLE DAMAGE OR PERSONAL INJURY.

**WARNING** INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.

## Section 2 Identification and Safety

Tire Tips (Cont'd)

[Return to Index](#)



1st Stage	20 to 25 ft/lbs
2 <sup>nd</sup>	55 to 60 ft/lbs
3 <sup>rd</sup> Stage	90 to 95 ft/lbs

TIGHTEN EACH LUG NUT IN THE ORDER SHOWN IN THE CHART

NOTE: Start all lug nuts by hand to prevent cross threading. Wheel nut torque requirements vary depending on the size and manufacturer of the wheel. Always use the wheel manufacturers recommendation but do not exceed 100 ft/lbs on 1/2 inch studs. The recommended final torque for your Aviator is 95ft/lbs.

**⚠ WARNING**

**FOR FINAL TORQUE DO NOT EXCEED 100 ft/lbs.**

NOTE: It is recommended that wheel bearings be repacked every 12 months.

**⚠ WARNING**

**BE SURE TO ONLY USE THE WHEEL NUTS THAT WERE SUPPLIED WITH YOUR AVIATOR AND USE A GOOD QUALITY TORQUE WRENCH TO TIGHTEN THEM DOWN. IMPROPERLY TORQUED WHEEL NUTS OR THE WRONG STYLE OF WHEEL NUTS CAN CAUSE THE WHEEL TO SEPARATE FROM THE WHEEL MOUNTING SURFACE DURING OPERATION. THIS COULD RESULT IN PROPERTY DAMAGE, SERIOUS PERSONAL INJURY OR LOSS OF LIFE.**

**⚠ WARNING**

**DO NOT PLACE A JACK AGAINST THE TRAILER UNDERBELLY WHEN CHANGING A TIRE. TO AVOID DAMAGE TO YOUR UNIT, BE SURE THE JACK IS PLACED FIRMLY AGAINST THE CHASSIS FRAME.**

END OF SECTION

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

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## Section 3

# Weight Distribution, Loading and Towing

### Loading and Weighing Tips

[Return to Index](#)

### Cargo Capacities

[Return to Index](#)

Determining the weight of a vehicle includes more than understanding the load limits of the tires. A weight certification label, located on the forward half of the road side of the unit, will indicate the gross axle weight (GAWR). This is the most the fully loaded vehicle can weigh. If there are multiple axles, the GAWR of each axle will be provided. Look in your Yellow Pages under gravel pits, storage companies or recycling facilities to find certified scales. Call in advance to determine if they offer public weighing service, their fees, if any, and hours of operation.

**NOTE: WHEN ESTABLISHING THE CARGO CAPACITY, WEIGH WITH ALL WATER TANKS AS EMPTY AS POSSIBLE. (DO NOT ALLOW ANYONE TO BE IN THE RECREATIONAL VEHICLE WHEN WEIGHING THE UNIT.)**

**NOTE: CARGO CAN BE ADDED TO THE VEHICLE UP TO THE MAXIMUM WEIGHT SPECIFIED ON THE WEIGHT LABEL. THE COMBINED WEIGHT OF THE RV AND ITS CARGO CANNOT EXCEED THE STATED GVWR.**

**GVWR** - (Gross Vehicle Weight Rating) - the maximum permissible weight of the fully loaded RV.

**GAWR** - (Gross Axle Weight Rating) - the allowable weight, including cargo, that can be safely supported by each axle.

**UVW** - (Unloaded Vehicle Weight) - the weight of the trailer as manufactured at the factory. It includes all weight at the trailer axle(s) and the tongue or pin. If applicable, it also includes full generator fluids including fuel, engine oil and coolants.

**CCC** - (Cargo Carrying Capacity) - equal to GVWR minus each of the following:

- UVW
- Full fresh (potable water-for drinking and cooking) water weight (including water heater) and full LP gas weight.

**Tongue**-The weight of the tongue as it bears down on the hitch of the towing vehicle.

**Weight**- Tongue weight should be determined with the RV fully loaded as it would be for travel. DO NOT assume that you can fill all tanks and all storage areas and still be within the GVWR. The weight of fully filled propane containers is considered part of the weight of the RV before it is loaded with cargo and is not considered part of the disposable cargo load. Water, however, is a cargo weight and is treated as such. If there is a fresh water storage tank of 100 gallons, when filled this tank would weigh about 800 pounds. If needed, water can be off-loaded to keep the total amount of cargo added to the vehicle within the limits of the GVWR. Understanding this flexibility allows you to make choices that fit your travel and camping needs.

## Section 3

# Weight Distribution, Loading and Towing

**Loading and Weighing Tips (Cont'd)**

[Return to Index](#)

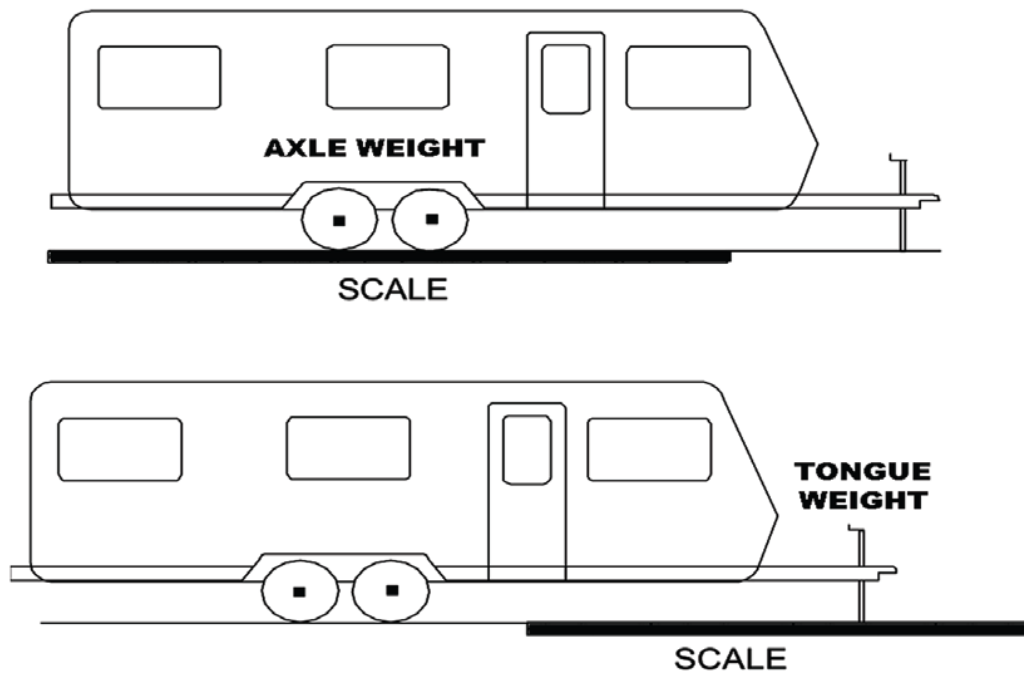
**Cargo Capacities (Cont'd)**

[Return to Index](#)

**Weight- (Cont'd)**

The weight of fully filled propane containers is considered part of the weight of the RV before it is loaded with cargo and is not considered part of the disposable cargo load. Water, however, is a cargo weight and is treated as such. If there is a fresh water storage tank of 100 gallons, when filled this tank would weigh about 800 pounds. If needed, water can be off-loaded to keep the total amount of cargo added to the vehicle within the limits of the GVWR. Understanding this flexibility allows you to make choices that fit your travel and camping needs.

**Gross Axle Weight PLUS Tongue Weight EQUALS Gross Vehicle Weight**



# Section 3

## Weight Distribution, Loading and Towing

### Loading and Weighing Tips (Cont'd)

[Return to Index](#)

**NOTE:** Before filling the fresh water tank, empty the black and gray tanks. Most campgrounds supply dump stations for this purpose. Doing this will provide more cargo capacity.

**NOTE:** If you find that you have exceeded the GVWR of the recreational vehicle, you will have to remove items until you are within the specified limits. After you have determined how much weight you can safely carry, make a list and keep it for future reference. This will limit the amount of time it takes you to get ready for the road.

### Vehicle Load Limits

[Return to Index](#)

<p><b>RECREATIONAL VEHICLE TRAILER CARGO CARRYING CAPACITY</b>          U/VW 4525 VIN: 4X4TSMB208R396378  <b>THE WEIGHT OF CARGO SHOULD NOT EXCEED:</b>          1223 kg or 2697 lbs</p> <p style="text-align: center;"><small>Caution:</small>          A full load of water equals 181 kg or 400 lbs of cargo @ 1 kg/l (8.33 lbs/gal)</p>	<p>The weight of Cargo Should Never Exceed:          1223 kgs or 2697 lbs.</p> <p>ST205/75R15/C      345 kpa 50 psi          ST205/75R15/C      345 kpa 50 psi          ST205/75R15/C      345 kpa 50 psi</p>	BAR CODE <div style="border: 1px solid black; padding: 2px;">4X4TSMB208R396378</div>	BAR CODE <div style="border: 1px solid black; padding: 2px;">SMR396378</div>															
MANUFACTURED BY / FABRIQUE PAR: FOREST RIVER, INC. DATE: 3/20/2007 THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE TYPE/TYPE TRA/REM V.I.N./N.I.V. 4X4TSMB208R396378 TYPE/TYPE TRA/REM SMR396378 GVWR/PNBV 3475 KG ( 7660 LB)																		
<p><b>RECREATIONAL VEHICLE TRAILER CARGO CARRYING CAPACITY</b>          U/VW 4525 VIN: 4X4TSMB208R396378  <b>THE WEIGHT OF CARGO SHOULD NOT EXCEED:</b>          1223 kg or 2697 lbs</p> <p style="text-align: center;"><small>Caution:</small>          A full load of water equals 181 kg or 400 lbs of cargo @ 1 kg/l (8.33 lbs/gal)</p>	<p>The weight of Cargo Should Never Exceed:          1223 kgs or 2697 lbs.</p> <p>ST205/75R15/C      345 kpa 50 psi          ST205/75R15/C      345 kpa 50 psi          ST205/75R15/C      345 kpa 50 psi</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td style="width: 15%;">GAWR/PNBE FRONT 1588 KG ( 3500 LB)</td> <td style="width: 15%;">TITRES/PNEU ST205/75R15/C</td> <td style="width: 15%;">RIMS/JANTE 15X5.0JJ</td> <td style="width: 15%;">COLD INFL PRESS/ PRESS DE FONFL A FROID 345 KPA SINGLE DUAL ( 50 PSI) <input checked="" type="checkbox"/></td> <td style="width: 15%;"></td> </tr> <tr> <td>INTERM/ NTERM LB)</td> <td></td> <td></td> <td>KPA SINGLE DUAL ( PSI) <input type="checkbox"/></td> <td></td> </tr> <tr> <td>REAR 1588 KG ( 3500 LB)</td> <td>ST205/75R15/C</td> <td>15X5.0JJ</td> <td>345 KPA SINGLE DUAL ( 50 PSI) <input checked="" type="checkbox"/></td> <td></td> </tr> </table>	GAWR/PNBE FRONT 1588 KG ( 3500 LB)	TITRES/PNEU ST205/75R15/C	RIMS/JANTE 15X5.0JJ	COLD INFL PRESS/ PRESS DE FONFL A FROID 345 KPA SINGLE DUAL ( 50 PSI) <input checked="" type="checkbox"/>		INTERM/ NTERM LB)			KPA SINGLE DUAL ( PSI) <input type="checkbox"/>		REAR 1588 KG ( 3500 LB)	ST205/75R15/C	15X5.0JJ	345 KPA SINGLE DUAL ( 50 PSI) <input checked="" type="checkbox"/>		THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE.  CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICLES AUTOMOBILES DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION.
GAWR/PNBE FRONT 1588 KG ( 3500 LB)	TITRES/PNEU ST205/75R15/C	RIMS/JANTE 15X5.0JJ	COLD INFL PRESS/ PRESS DE FONFL A FROID 345 KPA SINGLE DUAL ( 50 PSI) <input checked="" type="checkbox"/>															
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REAR 1588 KG ( 3500 LB)	ST205/75R15/C	15X5.0JJ	345 KPA SINGLE DUAL ( 50 PSI) <input checked="" type="checkbox"/>															

### Loading Tips

[Return to Index](#)



- After you have determined what cargo makes up the allowable **GVWR**, make a loading diagram of your properly loaded Aviator.
- Store emergency items, flashlights, flares, tools, electrical cords and first-aid kit, etc., in an easily accessible storage compartment, taking care to keep those items in a waterproof container.
- When loading your Aviator, remember to distribute the weight evenly so you get the proper amount of weight on the axle(s) and hitch. Remember to also consider the weight of any items you may purchase on your trip.

Notes:

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## Section 3

# Weight Distribution, Loading and Towing

### Loading Tips (Cont'd)

[Return to Index](#)

- Do not place heavy items in the overhead cabinets. They could shift and fall during travel.
- Luggage and similar cargo stored inside your Aviator must be secured to prevent possible damage if it should become necessary to make a sudden stop.
- Heavy items should be stored close to the floor in the center of the unit. Avoid loading heavy items near either end of your Aviator or on the rear bumper. Adjust cargo, as needed, to keep the side to side wheel loads equal.
- Carry only as much water as needed for travel use or to balance the load. Empty your black (waste) and gray (shower and sinks) tanks before beginning each leg of your trip.

### Weighing Tips

[Return to Index](#)

- Weights of stored items will vary greatly and will affect total weight of your recreational vehicle. Always weigh the recreational vehicle at a certified weigh station equipped with platform scales.
- Check the telephone directory or with local authorities for the location of weigh stations in your area. If you find that you have exceeded the GVWR of the recreational vehicle, you will have to remove items until you are within the specified limits. If you find that either of the GAWR's has been exceeded you will need to redistribute the load within the recreational vehicle to meet the specified limits. Plan ahead before loading your Aviator to insure that items will be evenly distributed. Not only will the recreational vehicle handle and ride better, you will also have reduced tire wear and increased fuel economy.
- When weighing the recreational vehicle, weigh both right and left hand sides separately. This will insure that you have not overloaded one side or the other, affecting handling. To avoid possible damage, DO NOT store heavy items near the front or rear ends of your Aviator.
- Empty the holding tanks before leaving on a trip, and as often as possible when traveling to help keep weight reduced. Try to carry only as much water as you will need while traveling. Sometimes, the water tanks can be used to help balance the weight in the recreational vehicle (a gallon of water weighs 8 pounds).
- Secure all items stored inside and outside the recreational vehicle, and be sure all doors and drawers are secure.

Notes:

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## Section 3

# Weight Distribution, Loading and Towing

Weighing Tips (Cont'd)

[Return to Index](#)

**▲WARNING**

**DO NOT ADD ANY TYPE OF RACK OR FRAME ADDITION TO YOUR AVIATOR FRAME OR BUMPER. THE ALTERATION TO LENGTH AND/OR WEIGHT DISTRIBUTION MAY RESULT IN UNSTABLE HANDLING, BE A SAFETY HAZARD, OR COULD DAMAGE YOUR AVIATOR COMPONENTS. ALTERATIONS OF THIS SORT, WITHOUT THE RV MANUFACTURERS' EXPRESS WRITTEN CONSENT, MAY AFFECT YOUR AVIATOR WARRANTY**

**How To Weigh Your Aviator**

[Return to Index](#)

- With full fuel tanks and a typical passenger load, weigh the tow vehicle separate from the trailer.
- Before weighing the trailer, fill the propane tanks. If you plan to travel with fresh water onboard, the fresh water tank should also be filled to the level you intend to carry when traveling.
- Hitch the trailer and weigh both the trailer and the tow vehicle. Drive onto the scale so that only the tow vehicle (with full fuel and passengers) is on the scales. This weight minus the tow vehicle's weight equals the hitch weight.
- Drive the tow vehicle and the trailer fully onto the scale to get the Gross Combined Vehicle Weight. This weight minus the tow vehicle weight equals the trailer weight. The Gross Vehicle Weight Rating (from the manufacturers sticker) minus the trailers weight equals the amount of supplies and personal gear you can carry.

**NOTE: YOUR AVIATOR HAS DUAL AXLES. YOU CAN GET A WEIGHT FOR EACH AXLE BY STOPPING ON THE SCALE WITH THE FIRST AXLE ON THE SCALE AND NOTING THE WEIGHT. THEN DRIVE SO THAT BOTH AXLES ARE FULLY ON THE SCALE AND NOTE THAT WEIGHT AS WELL. (WEIGH MASTERS ARE ACCUSTOMED TO THIS PROCEDURE AND IF YOU EXPLAIN WHAT YOU INTEND TO DO, WILL USUALLY WORK WITH YOU.)**

**NOTE: FOR INFORMATION REGARDING HITCHING TO THE TOW VEHICLE, PLEASE REFER TO YOUR SELLING DEALER.**



## Section 3

# Weight Distribution, Loading and Towing

### **Weighing Tips (Cont'd)**

[Return to Index](#)

### **Computing Your Load and Load Distribution**

[Return to Index](#)

To avoid overloading you must understand that the GVWR is the most weight your unit was designed to carry. The GVWR is the weight of the entire contents of the unit and the full weight on the axles on the tongue or hitch. DO NOT EXCEED THE GVWR OF THIS UNIT. This information is listed on the "Trailer Weight Information" sticker located on the driver's side (or road side) front corner of the unit. To determine how much cargo weight you can put in your unit, make sure the unit is fairly empty, and all tanks have been drained. Take your unit to a weigh station and have the entire unit weighed on the scale. The total weight from the scale subtracted from the GVWR will give you the amount of cargo weight you can load into your unit. If you are still unsure of overloading, you can take the fully loaded unit to a weigh station and have it weighed the same way. The total weight of the unit should never exceed the GVWR of the unit.

### **Travel Trailer Hitch and Sway Control**

[Return to Index](#)

To safely tow your new travel trailer, we recommend having a weight distributing hitch with a 2 5/16" ball. It is very important to choose a hitch designed for the particular tow vehicle and have it properly installed. Choosing the correct hitch for use with your unit will enhance the stability and maneuverability of your unit and tow vehicle combination. Forest River recommends you consult with your Forest River dealer for assistance in selecting the proper weight distribution and sway control systems for your application.

## Section 3

# Weight Distribution, Loading and Towing

### Travel Trailer Hitch and Sway Control (Cont'd)

[Return to Index](#)

A weight distributing hitch is one in which leverage is used to distribute the tongue weight of the trailer between the trailer and the tow vehicle. It consists of the hitch receiver which attaches to the tow vehicle, and spring bars that provide the necessary leverage for load distribution. A hitch of this type, properly installed and matched to your tow vehicle, will provide a level ride that can improve braking and steering control, as well as reduce towing strain. Pay particular attention to the relationship between the tongue load limits of your tow vehicle and the hitch that you purchase.

Another consideration when choosing a hitch is the addition of a sway control system. Friction and cam-action are the two main types of sway control systems available. Be sure to discuss the addition of sway controls with your dealer and hitch supplier when making the decision to purchase a hitch for your tow vehicle.

#### **⚠ WARNING**

**This unit may become unstable and/or unsafe if towed without proper weight distribution and sway control systems. These should be installed as per the weight distribution and sway control manufacturer's instructions. Again your Forest River dealer should be a valuable resource in selecting the proper weight distribution and sway control systems for your unit.**

### Safety Chain Installation Instructions

[Return to Index](#)

Your Aviator safety chains should always be connected by crossing them under the trailer tongue. The right chain attaches to the left side and the left chain attaches to the right side. This will form a cradle that catches the hitch coupler should it come loose. The end connectors should always be connected to the hitch base plate or another location specifically provided for this purpose. NEVER attach safety chains by looping around the ball hitch. If the chains are too long, simply twist them.



BALL HITCH (COUPLER)

**NOTE: IT IS VERY IMPORTANT TO LOWER THE LATCH AND INSERT THE SAFETY PIN INTO THE HOLE. NOTE: AT NO TIME SHOULD THE WEIGHT OF THE FULLY LOADED UNIT EXCEED THE TOW VEHICLES MAXIMUM WEIGHT RATING.**

## Section 3

# Weight Distribution, Loading and Towing

### Leveling Your Aviator

[Return to Index](#)

**▲WARNING**

**DO NOT** use the stabilizer jacks to raise or lower your Aviator.

**DO NOT** use the stabilizer jacks to support the total weight of the Aviator.

**DO NOT** place jacks on the extreme corners of the frame on a fifth wheel with slide rooms. Doing so could cause damage to the slide room.

**NOTE: THE JACKS ARE ONLY MEANT TO STABILIZE YOUR AVIATOR IN A LEVEL POSITION. ATTEMPTING TO RAISE THE TRAILER BY USE OF THE STABILIZER JACK CAN CAUSE DAMAGE TO THE JACK, FRAME OR BOTH.**

**NOTE: AFTERMARKET STABILIZER STANDS MUST BE PLACED ONLY UNDER CHASSIS FRAME RAILS. NOTE: ALWAYS FULLY RETRACT THE JACKS BEFORE TOWING YOUR AVIATOR.**

**▲WARNING**

**BEFORE USING THE JACKS, BE SURE TO CHOCK THE WHEELS ON BOTH SIDES. PLACE CHOCKS BOTH IN FRONT OF AND BEHIND THE WHEELS.**

Before leaving on a trip, you must ensure your unit is level.

- 1) You may choose to purchase levels for your Aviator to help you insure the trailer is level. Your dealer should be able to assist you with this as well.
- 2) When extending the stabilizer jacks or Tongue Jack remember that the jacks **MUST** be on a solid surface. Sometimes asphalt or grass can have some give to them depending on such things as heat, rain, etc. Forest River suggests that you use some type of material that is strong enough and large enough to give you adequate support. Usually a 2" x 8", 2" x 10" or 2" x 12" board is used. Be sure there are no cracks or Knots in them. Your dealer should be able to help you determining what type of material you should use under your Stabilizer Jacks and Tongue Jack. Your stabilizer jack foot pads are approximately 6" square. If you choose to use a two by board, a 2" x 8" should be the smallest you should consider. The 2" x 10" or 2" x 12" would be the better option. This would give you a large enough area for your stabilizer jack foot pads to better stabilize your Aviator.
- 3) Your Tongue Jack rod is approximately 2 1/4" wide. A 2" x 6" or 2" x 8" would be best for leveling support. Again check with your dealer if you are unsure what you should use.
- 4) Placing boards under your tires is also a good idea on softer ground. Since your unit has two axles, cut or purchase three lengths of 2"x 8" wood (with no knots or cracks). Some Tire manufacturers recommend 2"x 6" pieces of wood. (Since your tires should never hang over the edge of the leveling boards, the 8" gives you a little more room to maneuver.) If you prefer, there are heavy duty plastic blocks you can purchase to use in place of the wood.
- 5) To determine the length of board needed, measure the distance between the axle hubs and add 18-24". (The board should be long enough to allow the tire to rest completely on the board).

# Section 3

## Weight Distribution, Loading and Towing

### Leveling Your Aviator (cont'd)

[Return to Index](#)

If you have difficulty controlling the rig when backing onto the boards, add extra length. The second board should be 5” longer than the first one and the third board should be 5” longer than the second one. You may need various sizes of smaller boards for use under jacks and stabilizers. Another possibility is using plastic blocks that can be purchased at most any RV camping store. Smaller trailers also may be able to use leveling ramps instead of the boards but note the weight restrictions on the ramps and compare it to the weight of your Aviator.

Choose a site that is as level as possible. Be sure the ground is not soft and will support the weight of the trailer. **NOTE: WHEN IT RAINS, WATER MAY COLLECT IN THE BOTTOM OF THE WINDOW FRAME AND DRAIN OUT OF THE WEEP HOLES, MADE FOR THAT PURPOSE. IF YOUR UNIT IS NOT LEVEL, THE WATER MAY NOT DRAIN OUT PROPERLY. THIS COULD CAUSE WATER DAMAGE TO THE WINDOW OR WALL AND COULD BREED MOLD DUE TO CONDENSATION.**

Before unhitching your Aviator from the tow vehicle, level the Aviator from side to side with the appropriate length of wood, being sure to use chocks or wood blocks in front of the wheels to prevent the trailer from rolling. Once it is level side to side, you may unhitch and remove the chocks, then level it front to back. Sometimes if you move your Aviator a foot or two, it will be level enough not to need the wood planks

If additional leveling is necessary, using the leveling boards you made before your trip, place one or more in front of or behind the low side tires. Drive onto the boards and recheck the level. If you use more than one board, stagger them so the wheels roll up the boards one at a time.

Use the tongue jack to adjust your front to back level, lower the stabilizers to the ground to help prevent rocking. After stabilizing the unit, be sure the frame is not twisted, buckled or stressed. Be sure that all doors and windows operate freely.

**NOTE: IF YOU HAVE ANY QUESTIONS ON WHAT TYPE AND SIZE BOARDS OR MATERIAL TO USE FOR LEVELING YOUR AVIATOR, PLEASE CONSULT WITH YOUR DEALER.**

**NOTE: BEFORE MOVING YOUR AVIATOR, BE SURE ALL STABILIZERS (AND STEPS) ARE REMOVED OR FULLY RETRACTED.**

Notes: <hr/> <hr/> <hr/>
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## Section 3

# Weight Distribution, Loading and Towing

### **Electric Stabilizer Jacks (Optional)**

[Return to Index](#)

Your Aviator is equipped with front and rear Stabilizer Jacks to aid in stabilizing the unit. The switch for the front stabilizer jack is located in the front compartment on the door side to the right of the opening: The switch for the rear stabilizer jack is located in the rear compartment on the door side to the left side of the opening. **DO NOT USE THE STABILIZER JACKS TO LIFT YOUR AVIATOR OFF THE GROUND.**

### **Extending Electric Front Stabilizer Jacks**

[Return to Index](#)

When preparing to lower the front stabilizer jacks, first make sure you have a solid foundation that the stabilizer jack footpads will rest upon. If you are using any type of material as additional support put that in place. After doing this you are ready to extend the front stabilizer jacks. To extend the front stabilizer jacks open the front door side compartment door and press the extend button located on the right-hand side of the opening. If the jacks do not lower, check your power source first. If that is OK check your Stabilizer jack fuses which are located in the front compartment under the hood. It takes about 60 seconds for the stab jack to extend fully. If you are using material for the jack foot pad to lie against, stop the foot pad as it gets close to the material to ensure the material is properly placed for full support of the foot pad. (Usually this is as close to the center of the material as you can get). When you are satisfied with the placement of the material continue lowering the stabilizer jack until both feet pads are lower and the Aviator is properly stabilized on both ends of the front stabilizer jack. **DO NOT USE THE STABILIZER JACKS TO LIFT YOUR AVIATOR OFF THE GROUND.**

### **Extending Electric Rear Stabilizer Jacks**

[Return to Index](#)

When preparing to lower the rear stabilizer jacks, first make sure you have a solid foundation that the stabilizer jack footpads will rest upon. If you are using any type of material as additional support put that in place. After doing this you are ready to extend the front stabilizer jacks. To extend the rear stabilizer jacks open the rear door side compartment door and press the extend button located on the left-hand side of the opening. If the jacks do not lower, check your power source first. If that is OK check your Stabilizer jack fuses which are located in the front compartment under the hood. It takes about 60 seconds for the stab jack to extend fully. If you are using material for the jack foot pad to lie against, stop the foot pad as it gets close to the material to ensure the material is properly placed for full support of the foot pad. (Usually this is as close to the center of the material as you can get). When you are satisfied with the placement of the material continue lowering the stabilizer jack until both feet pads are lower and the Aviator is properly stabilized on both ends of the rear stabilizer jack.

### **Stabilizer Jacks (Manual)**

[Return to Index](#)

To raise or lower the Stabilizer jack, insert the handle (provided) on to the shaft of the Stabilizer Jack and turn the handle clockwise to extend the Stabilizer jack, and counter clockwise to raise the Stabilizer Jack. Be sure the Stabilizer jack pads are on a good solid surface. **DO NOT USE THE STABILIZER JACKS TO LIFT YOUR AVIATOR OFF THE GROUND.**

**DO NOT MAKE MODIFICATIONS TO YOUR AVIATOR BY ADDING AFTER-MARKET ITEMS (gooseneck adapters, hitches, bike racks, ladders, storage racks etc.), WITHOUT FIRST OBTAINING WRITTEN AUTHORIZATION FROM FOREST RIVER, INC. MODIFICATIONS MAY CAUSE DAMAGE TO YOUR AVIATOR AND LIMIT, REDUCE, OR VOID YOUR WARRANTY.**

**END OF SECTION**

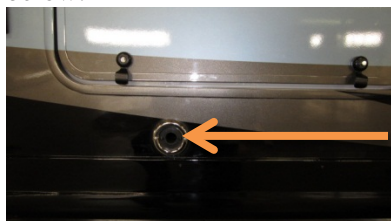
## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### Living Room Slide Out [Return to Index](#)

Before extending the room, check the exterior of the unit to be sure the room will not hit anything outside when it is fully extended. Locate the rocker switch that reads 'SLIDE-OUT #1'. Hold the switch in the 'OUT' position. (Note: You may hear a low grinding noise at the initial start of the operation. This is normal. It's the sound of the piston shafts traveling through the free travel area of the brackets.)

Continue to hold the switch down until the room stops moving. If the room stops moving before it is fully extended, the piston shafts may need to be adjusted. (Note: If this happens, contact your dealer and set up a service appointment for adjustment.) To bring the room in, reverse the procedure. If power fails or the room does not function electrically, you can manually operate the room using the provided hand crank and inserting it in the access hole located on the door side under the outside entertainment center. See below:



Turn the handle clockwise to run room out and counterclockwise to run the room in.

**NOTE: FOR OPTIMUM PERFORMANCE, THE SLIDE OUT SYSTEM REQUIRES FULL BATTERY CURRENT AND VOLTAGE. THE BATTERY MUST BE MAINTAINED AT FULL CAPACITY. IF THE BATTERY IS FULLY CHARGED AND YOU STILL DO NOT HAVE POWER, CHECK THE TERMINALS AND OTHER CONNECTIONS AT THE BATTERY.**

#### **⚠ WARNING**

**DO NOT PERFORM ANY MAINTENANCE WORK ON YOUR SLIDE OUT SYSTEM WITHOUT FIRST DISCONNECTING THE BATTERY. FAILURE TO DO SO COULD RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

#### **CAUTION**

**WHEN OPERATING THE SLIDE ROOM BE SURE THERE ARE NO OBSTRUCTIONS IN THE TRAVEL PATH.**

## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### **Prolonged Occupancy** [Return to Index](#)

Your recreational vehicle was designed for recreational use and short-term occupancy. If you expect to occupy your Aviator for an extended period of time, be prepared to deal with condensation and the humid conditions that may be encountered.

### **Condensation** [Return to Index](#)

Condensation is the change of water from its gaseous form (water vapor) into liquid water. Just as moisture collects on the outside of a glass of cold water during humid weather, moisture can condense on the inside surfaces of your Aviator. This condition is increased due to the small volume of space and the airtight construction of your Aviator.

Mold occurs when condensation is left for prolonged periods of time and is extremely difficult to kill. Controlling condensation inside your unit is the best way to avoid not only mold but dampness as well, both of which can cause damage to your Aviator and/or its contents.

Condensation can infiltrate insulation, motors, working parts of appliances or plumbing pipes, to name a few. Even though you may not see condensation, it may be inside the walls, cupboards or under the floor so it is best to take every precaution to avoid it occurring. Generally, an area that is dark, and where moisture can accumulate, is a potential breeding ground for mold.

**DAMAGE CAUSED BY MOLD OR MILDEW IS A MAINTENANCE ISSUE AND IS NOT WARRANTABLE.**



**CONDENSATION ON A WINDOW IS AN INDICATION OF TOO MUCH HUMIDITY.**

It is especially important when storing your Aviator or if you do not anticipate using it for an extended period of time, to air it out. Empty the refrigerator and freezer and dry it completely. Dry the inside of the shower and shower head.

Check for any leaks at the kitchen sink, toilet and bathroom sink. It's also a good idea to check your unit periodically to insure there is no condensation forming on the windows, which would indicate there is too much moisture in your unit.

If you see signs of too much moisture, take the necessary steps to remove the moisture to prevent possible damage to the contents or your Aviator itself.

## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### Tips To Help Contain Humidity In Your Aviator

[Return to Index](#)

1. Keep indoor humidity low--if possible below 60%. Ideally between 30 and 50% relative humidity. Relative humidity can be measured with a moisture or humidity meter. The meter is a small, inexpensive (\$10-\$50) instrument available at most hardware stores. Some larger campground stores may also have the meters.
2. Consider using a small dehumidifier to help rid the unit of moisture. You may also open your Maxxair vent(s).
3. Avoid allowing wet clothing to hang to dry inside the unit.
4. When showering or bathing, open the roof vents or turn on a fan to allow steam and moisture to escape. Wipe down the shower walls to prevent water evaporation.
5. Be sure there are no obstructions in any vents and that all vents are properly sealed. Pay particular attention to appliances that produce moisture, such as air conditioners, ovens, and clothes dryers.
6. Try using the microwave oven instead of the stovetop to boil water or soups for long periods. If you choose to use the stove to boil water or soup, open a window or a vent lightly (even in the winter) to provide a passage for the air to flow. This will also help restrict the humidity.
7. Try to recirculate the air by using vent fans or small oscillating fans or your furnace fan. If condensation occurs, keep the windows clean in order to prevent the growth of mold and mildew.
8. Do not use a ceramic heater as it provides no air movement, which will not aid in ridding the RV of condensation.

**REMEMBER THAT MOLD IS A MAINTENANCE ISSUE AND AS THE OWNER, PROPER MAINTENANCE OF YOUR RV IS YOUR RESPONSIBILITY. CONTROLLING HUMIDITY INSIDE YOUR RV WILL HELP TO PREVENT DAMAGE WHICH MAY OCCUR DUE TO NEGLIGENCE.**

**NOTE: WHEN IT RAINS, WATER MAY COLLECT IN THE BOTTOM OF THE WINDOW FRAME AND DRAIN OUT THE WEEP HOLES, MADE FOR THAT PURPOSE. IF YOUR UNIT IS NOT LEVEL, THE WATER MAY NOT DRAIN OUT PROPERLY. THIS COULD CAUSE WATER DAMAGE TO THE WINDOW OR WALL AND COULD BREED MOLD.**

**NOTE: IF YOU HAVE WATER AND/OR MOLD DAMAGE CAUSED BY SEWAGE OR OTHER CONTAMINATED WATER, IT IS BEST TO CALL IN A PROFESSIONAL, WHO HAS EXPERIENCE CLEANING LIVING SPACES DAMAGED BY CONTAMINATED WATER.**

** IF YOU HAVE HEALTH CONCERNS, CONSIDER CONSULTING A HEALTH PROFESSIONAL BEFORE ATTEMPTING MOLD CLEANUP.**

Notes:



## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### Safety Devices

[Return to Index](#)

#### **WARNING**

**NEVER IGNORE ALARMS ON SAFETY DEVICES. IF AN ALARM SOUNDS, GET EVERYONE OUT OF YOUR AVIATOR IMMEDIATELY.**

- Always have a plan of escape. Update and practice your escape plan every six months.
- Have a meeting and discuss the plan, showing everyone what to do, including guests.
- Do not waste time by picking up valuables or getting dressed. Sometimes seconds count!
- Weekly vacuum any dust off the alarm using the soft brush attachment.
- DO NOT spray cleaning agents or waxes directly onto the detector as it may cause damage to the sensor.

### Smoke Detector

[Return to Index](#)



- Smoke alarms may not have time to alarm before the fire causes damage, injury or even death.
- A smoke detector works only for detecting smoke, not fire.
- The alarm will sound only if smoke reaches the sensor.
- Check battery/s at least once a week while your Aviator is in use.
- This unit will not alert hearing-impaired residents. (Special alarms with flashing strobe lights are needed for the hearing impaired.)
- Smoke alarms have a limited life and are not foolproof. Never attempt to repair this unit, replace if faulty.
- Never disconnect the battery to silence the alarm.

# Section 4 LIVING QUARTERS, LP and ELECTRICAL

Safety Devices (Cont'd)

[Return to Index](#)



**NEVER IGNORE ALARMS ON SAFETY DEVICES. IF AN ALARM SOUNDS, GET EVERYONE OUT OF YOUR AVIATOR IMMEDIATELY.**



**CO Detector**

[Return to Index](#)

- The carbon monoxide detector is designed to detect carbon monoxide from any source of combustion. It is NOT designed to detect smoke, fire or any other gases.
- This detector doesn't work without batteries--DO NOT remove batteries except for replacement.
- Test alarm each week while your Aviator is in use and before beginning a trip. Press the 'TEST' button. If the alarm fails to sound, replace the unit immediately. DO NOT attempt to repair.

**LP Detector (General)**

[Return to Index](#)

- This detector senses propane gas in the air, not smoke or fire or other gases. It detects the presence of propane gas only at the sensor, explosive gas may be present in other areas.
- Test your LP detector weekly. If the alarm is located behind a closed door, it may not be heard.
- DO NOT attempt to repair the detector. If it fails the test, change batteries, if it still does not function properly, replace the entire unit.

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

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## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### LP Gas (Liquid Propane)

[Return to Index](#)

**▲WARNING**

**DO NOT** bring or store LP gas cylinders, gasoline or other flammable liquids inside your Aviator. A fire or explosion could result.

**▲WARNING**

**DO NOT** fill container(s) to more than 80% capacity. Overfilling the LP tanks can result in uncontrolled gas flow which can result in an explosion or fire.

**▲WARNING**

**NEVER** use any other type of LP gas container than the one furnished with your RV. If the tank must be replaced, check with your dealer for specifications.

**▲WARNING**

LP gas regulators must always be installed with the regular vent facing downward. Regulators that are not in compartments have been equipped with a protective cover. Be sure the regulator cover is kept in place to minimize vent blockage that could result in excessive gas pressure causing fire or explosion.

**▲WARNING**

**DO NOT** use butane or butane mixtures in your LP tank. When you fill your tanks be sure to use propane only.

**▲WARNING**

**DO NOT** make repairs to the LP tank. The LP gas system is designed to meet rigid standards. Except for simple maintenance and occasional tightening of a connection, always take your Aviator to an authorized dealer for LP gas problems.

**▲WARNING**

Always have an authorized LP gas supplier fill your LP tanks. When the LP gas container is being filled, **DO NOT** smoke, strike a match or ignite a lighter. A spark or flame could ignite fumes. Also be sure all burner and pilot flames are out and the service valve is closed.

**▲WARNING**

If you detect a sulfur or 'rotten egg' odor, **DO NOT** turn on any appliances. Shut off all operating appliances. Extinguish any open flames, including cigarettes. **DO NOT** touch any electrical switches. Open windows and doors and exit your Aviator. Shut off the gas supply at the LP tank (or source). Immediately call a Service Center or LP gas supplier from an outside telephone and follow their instructions.

**▲WARNING**

**DO NOT** turn on the gas supply until the gas leaks have been repaired.

**▲WARNING**

**DO NOT** attempt to adjust or repair the regulator. Adjustments and repairs require specialized training and tools. Contact a qualified LP Service Technician. Failure to follow these instructions could result in fire or explosion.

**DO NOT MODIFY YOUR LP SYSTEM. DO NOT REMOVE COMPONENTS OR REPLACE WITH COMPONENTS THAT ARE NOT OF EQUAL SPECIFICATIONS.**

## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### LP Gas (Liquid Propane) (Cont'd)

[Return to Index](#)

The liquid propane (LP) gas system in your recreational vehicle furnishes the fuel for cooking, heating and hot water. LP gas can also be used as an alternate energy source for refrigeration. It is a clean, efficient and safe form of energy when proper handling and safety precautions are observed.

The gas is stored with extreme pressure in the tank, with space in the tank to allow for expansion into vapor. This vapor is reduced in pressure by passing through a regulator. This reduction in pressure is a two-step process which assures consistent pressure for use, regardless of outside temperatures, weather or altitude.




### LP Regulator

[Return to Index](#)

LP gas is under high pressure in the tank. The purpose of the regulator is to reduce the pressure inside the tank to allow for safe use. A two-stage automatic regulator, most commonly used on dual tanks, offers the convenience of instant, automatic changeover from the empty to the full tank. You will notice a small directional arrow that is molded into the plastic knob. When the arrow is pointing to a tank and the indicator is green like the above photo, the tank has LP in it and is supplying LP to the Aviator. If the tank that the arrow was pointing to was empty, the indicator would show red. If the other tank had LP in it, the regulator would change over automatically and use the LP in that tank, even with the arrow pointing to the empty tank. If your regulator shows red on the side with the arrow, it means that tank is emptied and the tank needs to be filled. **Consult your Dealer on the proper way to disconnect from your LP system or change your LP Tanks.**

**DO NOT** adjust or repair the regulator. It is preset at the factory to certain specifications and should only be adjusted by a qualified propane service technician. To avoid potential problems, have your LP gas system checked by an authorized service center at least once a year and after each extended trip.

**WARNING** NEVER test for a leak by lighting a match or having an open flame where you suspect a leak. 

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

NOTES:

# Section 4

## LIVING QUARTERS, LP and ELECTRICAL

### LP Gas (Liquid Propane) (Cont'd)

[Return to Index](#)

#### LP Regulator Freeze-up

[Return to Index](#)

The term 'regulator freeze-up' is a misleading one. Regulators and LP gas do not freeze. However, the moisture that can be contained in the gas will freeze as the gas expands and cools passing through the regulator. This freezing of the moisture in the gas can build up and partially or totally block the passage of the gas through the regulator. Freezing can also occur when outside temperatures are low enough to contribute to the freezing of the moisture in the gas.

The source of the moisture is varied. It can occur at the refinery or gas bulk plant. in the cars used to transport the gas, or even within your own LP tanks. Moisture in an LP tank can occur when a tank service valve is left open, allowing moist air to enter and become trapped.

A two-stage regulator helps reduce the possibility of freeze-up because of its larger orifice size and that heat is being transferred through the walls of two regulators instead of only one.

#### Tips to help prevent LP regulator freeze-up

[Return to Index](#)

- Make sure your LP tank is free of moisture before refilling.
- DO NOT overfill the LP tank.
- Be sure to keep the service valve on an empty tank closed.
- If freezing occurs, have your LP dealer purge the LP tank before refilling.
- Check with your dealer to determine what de-icing agent is approved to add to the LP tank.
- Keep the regulator covered at all times.

**NOTE: IF FREEZE-UP DOES OCCUR, SHUT THE LP OFF AT THE TANK. A FROZEN REGULATOR MAY PERMIT LP GAS TO FLOW AT HIGH PRESSURE, RESULTING IN LEAKS AT APPLIANCES OR IN THE LINES. NEVER ATTEMPT TO THAW WITH AN OPEN FLAME. A SMALL LIGHT BULB CAN SOMETIMES BE USEFUL TO PROVIDE HEAT AND AID THE THAWING PROCESS. ONCE THAWED, BE SURE TO TAKE THE PROPER STEPS TO PREVENT A REOCCURENCE. HAVE THE SYSTEM CHECKED BY YOUR LP SUPPLIER.**

#### Other Cold Weather Factors

[Return to Index](#)

As outside temperatures drop, the BTU value of the LP gas is lessened. The colder liquid LP in the tank/s requires heat from the surrounding air to vaporize. This lowering of BTU value can significantly affect the performance of the system. Keeping your LP tanks as full as possible in cold weather and reviewing the BTU/hr rating plates on LP appliances will help insure proper LP management.

Notes:

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## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### LP Gas (Liquid Propane) (Cont'd)

[Return to Index](#)

#### LP Pigtail

[Return to Index](#)

The LP pigtail is a hose used to connect to the regulator on the tank through which the LP fuel flows. This safety feature is generally recognized by the large green nut that attaches to the outside of the valve on the regulator. It limits excessive gas flow and prevents gas from flowing unless the connection is tight.

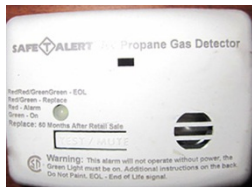


#### NOTE:

**THE CONNECTION AT THE LP TANK WILL SHUT DOWN IN EXTREME HEAT (2400-3000 FAHRENHEIT.)**

#### LP Detector Use

[Return to Index](#)



#### In the Event of an Alarm:

If the detector senses the presence of LP gas, the light will turn from green to red, accompanied by an audible alarm. If the alarm sounds:

1. Immediately evacuate all occupants from your Aviator.
2. Extinguish any open flames, pilot lights and all smoking material.
3. **DO NOT** touch any electrical switches.
4. Shut off the gas supply at the tank.
5. Open doors and windows to ventilate.
6. **DO NOT USE THE RANGE HOOD OR OTHER POWER VENTS.**
7. The alarm will continue to sound as long as LP gas is detected or until turned off.

**NOTE: THE ALARM MAY SOUND AT TIMES WHEN NO LP GAS IS PRESENT DUE TO HOUSEHOLD PRODUCT USE SUCH AS AEROSOL HAIRSPRAY, CERTAIN CLEANERS, ADHESIVES, ALCOHOL, ETC.**

**TIP: TO HELP AVOID A FALSE ALARM, BE SURE TO WELL VENTILATE THE AREAS WHERE THESE PRODUCTS ARE IN USE.**



# Section 4

## LIVING QUARTERS, LP and ELECTRICAL

**Electrical System**

[Return to Index](#)



**Connecting the power cord to a non-grounded or improperly grounded power source can result in a dangerous and possibly fatal electric shock.**

The electrical power supply provided for the recreational vehicle is a dual system, operating with 110 volt AC and/or 12 volt DC.

The 110 volt power may be provided by connecting your Aviator to an appropriate 50 amp (VAC) RV type properly grounded power source. When the 110 volt system is operational, power also passes through your power converter, allowing the use of 12 volt functions in your Aviator. Some 110 volt functions in your Aviator may include:

Refrigerator	Converter	Roof-mounted air conditioner
TVs	Convection oven	
Electrical outlets	DVD, Blu ray player, radio	

The refrigerator also has the option of running on LP gas when 110 volt power is not available. When not connected to 110 volt power, the 12 volt system functions can be supplied by the batteries. Batteries are recharged by the power converter when your Aviator is connected to an appropriate 50 amp (VAC) RV type properly grounded power source.

**Connecting To an Outside Power Source**

[Return to Index](#)

A 50 amp power cord is provided to connect your Aviator to an appropriate 50 amp (VAC) RV type properly grounded power source. The electric utility service connection is located on the driver’s side, near the rear. The power cord can be stored inside the electric utility service compartment. NEVER use a two wire extension cord, a cheater adapter with the ground pin removed, or put a lower amperage plug on your power cord in place of the molded plug.

Your Aviator has a detachable 50 amp power cord.



**NEVER USE A TWO WIRE EXTENSION CORD, A CHEATER ADAPTER WITH THE GROUND PIN REMOVED, OR PUT A LOWER AMPERAGE PLUG ON YOUR POWER CORD IN PLACE OF THE MOLDED PLUG.**

**DANGER! INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.**  
**‘WARNING’ INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

# Section 4

## LIVING QUARTERS, LP and ELECTRICAL

**General Electrical Information** [Return to Index](#)

The electrical power supply provided for your Aviator is a dual system, operating with 110 volt AC and/or 12 volt DC. The 110 volt power is provided by connecting your Aviator to an appropriate 50 amp (VAC) RV type properly grounded power source. When the 110 volt system is operational, power also passes through your power converter, allowing the use of 12 volt functions.

110 volt functions in the recreational vehicle include the refrigerator, ice maker, roof mounted air conditioner(s), TV and Blu ray player, microwave oven, converter, outlets for 110 volt operated conveniences, and some lights. The refrigerator also has the option of running on LP gas when 110 volt power is not available. All other electrical functions in your Aviator are supplied with 12 volt power.

When it is not possible to access 110 volt power, the 12 volt system functions can be supplied by your batteries. The batteries are recharged by the power converter when your Aviator is connected to an appropriate 50 amp (VAC) RV type properly grounded power source.



**Connecting the power cord to a non-grounded or improperly grounded power source can result in a dangerous and possibly fatal electric shock**



**NEVER USE A TWO WIRE EXTENSION CORD, A CHEATER ADAPTER WITH THE GROUND PIN REMOVED, OR PUT A LOWER AMPERAGE PLUG ON YOUR POWER CORD IN PLACE OF THE MOLDED PLUG.**

**Batteries** [Return to Index](#)

Your batteries are located under the front hood. It is important to be sure the batteries are kept charged. Take time to turn off all lights or other 12 volt conveniences when not in use. Connect your Aviator to an appropriate 50 amp (VAC) RV type properly grounded power source when possible, to prevent draining of your batteries.

**DANGER! INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.**  
**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**  
Notes: \_\_\_\_\_



## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### Batteries (Cont'd)

[Return to Index](#)

The condition of the batteries is displayed on the monitor panel by pressing and holding the “Battery” test switch. Your Monitor panel is located in the bathroom. Readings are as follows: C = 12.70 to 12.85 VDC, G = 12.10 to 12.15 VDC, F = 11.60 to 11.65 VDC, L = up to 6.00 VDC. All readings are  $\pm 5\%$ .

### Battery Maintenance

[Return to Index](#)

While Aviator didn't install your battery, we want to provide you with the following information. Battery maintenance is important. Checking the condition of a battery at regular intervals will help insure its proper operation. Here are some recommendations for checking and servicing the batteries.

1. Keep the battery mounted securely. Excessive vibration can cause early battery failure.
2. Check the electrolyte level of the auxiliary batteries at regular intervals. Keep each cell filled with distilled water, to just above the plates. Once the plates have dried out, they cannot be reactivated, and the capacity of the battery is reduced in direct proportion to the area of plate surface that has become dry. This kind of damage can occur quickly.
3. Keep the battery clean. Corroded terminals make poor contact. Battery sulfation occurs when the battery has been standing in a discharged condition over a long period of time, or when the battery has been operated continually in a state of partial discharge.
4. Check the outside condition of the battery. Look for cracks in the case or vent plugs, If the case is cracked, the battery must be replaced, If the vent plugs are cracked, they must be replaced.
5. Watch for over charging. Two ways to spot overcharging are
  - a. Active material on the vent cap (heavy deposit of black lead-like material on the underside of the vent cap.)
  - b. Excessive use of water.
6. Make sure the battery hold downs and carrier are kept clean and free of corrosion.

**Note:** When removing a battery, turn off the power converter and disconnect the ground battery clamp first. When installing a battery, always connect the grounded battery clamp last. When a battery needs to be replaced consult your dealer for advice on the proper battery replacement.

**▲WARNING DUE TO THE POTENTIAL DANGER IN FAILING TO HEED THIS WARNING, THE RECREATIONAL VEHICLE MANUFACTURER CAN NOT BE HELD RESPONSIBLE SHOULD DAMAGE, INJURY OR DEATH RESULT FROM FAILURE TO CONNECT THE POWER CORD TO A PROPERLY GROUNDED POWER SOURCE.**

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

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## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### Battery Safety

[Return to Index](#)

#### **⚠ WARNING**

**ALWAYS SHIELD YOUR EYES WHEN WORKING NEAR BATTERIES. BATTERIES CAN EXPLODE. DO NOT SMOKE OR EXPOSE BATTERY TO ELECTRIC SPARK OR FLAME. WHEN CHARGING OR DISCHARGING, BATTERIES GENERATE HYDROGEN. HYDROGEN AND AIR IS A VERY EXPLOSIVE MIXTURE.**

#### **⚠ WARNING**

**DO NOT SHORT ACROSS THE BATTERY TERMINALS. THE SPARK COULD IGNITE THE GASES. DO NOT WEAR METAL JEWELRY OR A WATCH WHEN WORKING ON A BATTERY.**

#### **⚠ WARNING**

**DISCONNECT THE BATTERY CABLE AND THE 110 VOLT POWER CORD BEFORE WORKING ON ELECTRICAL SYSTEM. DO NOT RECONNECT THE CABLES UNTIL ALL WORK HAS BEEN COMPLETED.**

#### **⚠ WARNING**

**BATTERY ELECTROLYTE IS A CORROSIVE, POISONOUS, SULFURIC ACID. AVOID CONTACT WITH SKIN, EYES, CLOTHING OR ANY PAINTED SURFACE.**

### Battery Charging

[Return to Index](#)

The power converter also operates as a battery charger when it is connected to an appropriate 50 amp (VAC) RV type properly grounded power source. If the batteries are below its full charge, the power converter will begin operation at a rate that reflects the level of discharge. When the batteries are fully charged, the power converter charger drops its charging level back to a maintenance level to maintain the batteries. When removing a battery or batteries from your Aviator for charging with an off-board battery charger, refer to the instructions provided with that battery charger. You may want to follow these safety precautions:

1. Disconnect the battery or batteries from your Aviator.
2. Check electrolyte status before charging. Be sure each cell is properly filled with distilled water.
3. Use care when connecting and disconnecting the cables from chargers. A poor connection can cause an electrical arc which can result in an explosion.
4. Remove the battery vent caps before charging and be sure that the electrolyte solution does not splash out, as a result of charging too quickly.
5. Read the literature supplied by the battery manufacturer and follows all their warnings or precautions as stated in their manual or literature.

**WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### Power Converter (Overview)

[Return to Index](#)

The power converter converts VAC (Voltage Alternating Current) from an external power supply to VDC (Voltage Direct Current). You also have a Distribution Panel which distributes the VAC and the VDC power to your Aviator. The power converter is located behind the distribution panel, and the distribution panel is located in the bedroom near the rear entry door. Under normal conditions, the power converter requires little to no maintenance. If the power converter does not have a VAC supply to convert to VDC, it automatically allows the batteries in your Aviator to provide the VDC for the VDC devices. When reconnected to a VAC power source, it will again convert VAC to VDC and maintain your batteries.

**Incoming Voltage to the power converter needs to be between 105 to 132 VAC, and the normal output of the power converter is 13.20 to 13.70 VDC. The only exception of VDC output is when the power converter goes into “Bulk” mode which is 14.40 VDC for 4 hours. Bulk mode can be stopped by turning off the power converter breaker for a few seconds and then turn it back on.**

The power converter will run warm, which is normal, however, if it gets too hot, it will turn itself off. After it cools, it will come back on. Your Aviator power converter has been installed with adequate ventilation to prevent this from happening. A slight hum during operation is also normal for the power converter, if you have no VDC power and no hum, check to see if VAC power to the power converter has been interrupted.

### Power Converter/Battery Charger

[Return to Index](#)

The power converter is designed to supply the nominal 12 volt filtered power for all 12 volt operated devices. Although the converter is an excellent battery charger, the converter does not require a battery to be connected to it for proper operation. Average charge rate will depend on several variables such as, condition of the battery(s), temperature, and the length of time the battery(s) are connected to the converter.

**NOTE: WHEN INSTALLING A BATTERY OR BATTERIES, ALWAYS OBSERVE POLARITY. CONNECTING A BATTERY OR BATTERIES WITH REVERSE POLARITY WILL BLOW THE POWER CONVERTER REVERSE POLARITY FUSES. IF THE 12 VOLT LOAD EXCEEDS THE CONVERTER OUTPUT, THE VOLTAGE WILL DROP TO PREVENT ANY FURTHER INCREASE IN CURRENT. TURNING OFF UNNECESSARY LIGHTS AND/OR APPLIANCES WILL LOWER POWER REQUIREMENT AND THE OUTPUT VOLTAGE WILL AUTOMATICALLY RESTORE.**



**‘WARNING’ INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

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## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### Ground Fault Circuit Interrupter (GFCI)

[Return to Index](#)



The 110 volt outlet in the bathroom is equipped with a protective circuit interrupter. The Ground Fault Circuit Interrupter (GFCI), is designed to break the flow of current to the protected outlets when an imbalance of current is detected. Imbalances include electrical leakage in an appliance such as a shaver or hair dryer that have developed a weak spot in electrical insulation. The possibility of electrocution exists when using a faulty appliance while at the same time being in contact with an electrical ground such as water, plumbing or the earth. Also a “dry fired” water heater heating element will continue to trip your GFCI. If you suspect a “dry fired” element, go to the water heater and remove the exterior water heater door. Locate the heating element switch. If it is turned on turn it off and reset the GFCI in the bathroom. If the GFCI does not trip again, contact your dealer.

**Note: DRY FIRED WATER HEATER ELEMENTS ARE USUALLY CAUSED WHEN NO WATER WAS IN THE WATER HEATER AND THE ELEMENT SWITCH WAS TURNED ON.**

If an imbalance is detected, the GFCI will trip and shut off power to the outlet. Even with GFCI protection, the electrical shock will still be felt, but to a lesser degree. It also does not protect against short circuits or system overloads. Circuit breakers in the main panel which supply power to the circuit, will trip if either of these conditions exists. The GFCI receptacle should be tested initially when your Aviator is purchased, and at least monthly thereafter.



**EVEN WITH GFCI PROTECTION, PERSONS WITH SEVERE HEART OR OTHER HEALTH PROBLEMS MAY STILL BE SERIOUSLY AFFECTED BY AN ELECTRICAL SHOCK. THE GFCI OUTLET IS NOT A SUBSTITUTE FOR GOOD ELECTRICAL SAFETY. IT DOES NOT PROTECT AGAINST CONTACT OF THE HOT AND NEUTRAL WIRE AT THE SAME TIME. NOTE: THE GFCI DOES NOT PROTECT ANY CIRCUIT OTHER THAN THE ONE TO WHICH IT IS CONNECTED**



**‘WARNING’ INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

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## Section 4

# LIVING QUARTERS, LP and ELECTRICAL

### Testing The GFCI Circuit

[Return to Index](#)



1. Make sure power to the circuit is ON
2. Push the reset button.
3. The red reset button should pop out.
4. All power should be interrupted to outlets protected by the GFCI.
5. Verify by plugging in a light at these outlets, and pushing in the red reset button. If the button does not pop out after pushing the test button, or GFCI circuit continues to trip, immediately turn off power at the circuit breaker panel and have a qualified dealer, service tech, or electrician service it.

**NOTE: THE GFCI DOES NOT PROTECT ANY CIRCUIT OTHER THAN THE ONE TO WHICH IT IS CONNECTED. THESE OUTLETS ARE THE BATHROOM, BOTH KITCHEN OUTLETS, AND THE OUTSIDE ENTERTAINMENT OUTLET.**

### VAC Circuit Breakers

[Return to Index](#)

The VAC system is protected by circuit breakers. These breakers automatically trip if the circuit load is too heavy, or a short circuit occurs. If a circuit breaker has been tripped, do not reset the breaker until the cause of the problem is identified and corrected.

### 12 Volt Fuses

[Return to Index](#)

A 12 volt DC distribution panel is to the right of VAC circuit breakers. The panel contains circuits with replaceable “ATC” fuses for protection of recreational vehicle 12 volt lines. If any line is loaded beyond the capacity of its fuse, the fuse will blow. A portion of the 12 volt load on the line must be turned off to reduce the total load on the line to a level below the capacity of the fuse, Replace the fuse with the same size and type. **DO NOT replace with a larger fuse than indicated.**

If this reduction of load on the line does not stop the blowing of the fuses, there may be a short somewhere along the 12 volt line, or at a not-fused 12 volt component on the line. Check the 12 volt line and any components along the line. Locate the short and take necessary steps to repair it. If you cannot locate the problem, call a qualified dealer, service tech, or electrician.

**NOTE: KEEP ADDITIONAL “ATC” FUSES ON HAND INSIDE YOUR AVIATOR. REPLACEMENT FUSES ARE AVAILABLE AT GAS STATIONS, HARDWARE STORES, OR AUTOMOTIVE SUPPLY STORES. REMEMBER THAT THE REPLACEMENT FUSE MUST BE THE SAME AMPERAGE RATING, AND SAME TYPE AS THE ORIGINAL FUSE. YOUR AVIATOR USES “ATC” VDC TYPE FUSES.**

**END OF SECTION**

# Section 5

## PLUMBING

### Plumbing

[Return to Index](#)

Your Aviator plumbing system has the dual ability to be self-contained with on-board storage, or use facilities provided by an external pressurized source. The fresh water system consists of those items which are used to deliver water for your use, while the waste water system is made up of the drains and tanks which store and remove water that has been used. Components of the plumbing system consist of strong, lightweight, corrosion resistant materials that provide long life, and easy cleaning. By following the instructions outlined here, you can expect efficient operation with a minimum of maintenance.

### Fresh Water

[Return to Index](#)

Potable (fresh water) is supplied by either the fresh water tank on-board your Aviator or from an outside source, connected through the city water inlet connection. When using the fresh water tank, the water is pumped through the water lines by means of the water pump. When utilizing an exterior source, such as a campsite water supply, the pump is not needed as the water is already pressurized and will flow through the water supply lines within your Aviator.

### External Hook-Up (City Water Inlet Connection)

[Return to Index](#)

Water provided from outside your Aviator is pressurized by the system from which it is delivered. When you connect your Aviator to an outside source, the fresh water tank and the water pump are kept separate from the remainder of the system by in-line check valves. (DO NOT turn the pump on if the fresh water tank is empty. Doing so could cause damage to the pump or a blown circuit may occur.)

### Attaching to an Outside Source of Water (City Water Inlet Connection)

[Return to Index](#)

1. Remove the cap from the fresh water inlet on the off door rear side of your Aviator.
2. Attach one end of the fresh water hose to the outside source of water.
3. Connect the other end of the hose to the Aviator city water inlet connection.
4. Turn on the outside source of water. Gradually open the hot & cold water at the sinks and tub to clear air from the lines. Close the faucets when the water is flowing freely.

**NOTE: DO NOT TURN ON THE WATER PUMP WHEN USING WATER FROM AN EXTERNAL SOURCE. ONLY USE THE WATER PUMP WHEN OBTAINING WATER STORED IN YOUR FRESH WATER TANK.**

Notes:

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## Section 5 PLUMBING

### To Disconnect from an Outside Source of Water

[Return to Index](#)

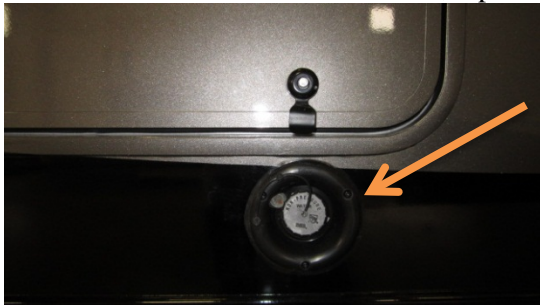
1. Turn off the outside source of water at the source.
2. Carefully disconnect the hose from the city water inlet connection. (Spraying may occur)
3. Remove the hose and store.
4. Reinstall the cap on your Aviator city water inlet connection.

When an outside source of water is unavailable, water can be drawn from the fresh water storage tank in your Aviator. The Fresh Water Tank is filled through a gravity controlled water spout located on the off door side under the front compartment door. See picture below.

### Filling the Fresh Water Tank

[Return to Index](#)

1. Remove the water fill cap.
2. Water can now be added directly to the tank through the fill spout by use of a known clean hose or other known clean water filling container, used only for this purpose.
3. When the Fresh Water Tank is full, replace the water fill cap.



• FILL CAP FOR FILLING TANK

• ONE END OF THE FRESH WATER SUPPLY HOSE GOES INTO THE FILL SPOUT AND THE OTHER END GETS CONNECTED TO A KNOWN CLEAN OUTSIDE SOURCE OF WATER APPROVED FOR HUMAN CONSUMPTION.

**NOTE: WHEN FILLING THE SYSTEM, YOU MAY WANT TO ADD MORE WATER TO THE TANK TO REPLACE THE WATER USED WHEN FILLING THE HOT WATER TANK AND WATER LINES.**

# Section 5 PLUMBING

## Filling the Fresh Water Tank (Cont'd)

[Return to Index](#)

When traveling, you may want to drain the tank or keep the quantity of water to a minimum. This will reduce the total weight of your Aviator for travel. The location of the fresh water and the waste water tank drain valve will vary from floor plan to floor plan but is generally located beneath the unit, near the respective tank.

Water in the tank can be drained by turning the drain cock perpendicular (vertically) to the Aviator body. To close the valve, turn the lever parallel (horizontally) to the Aviator body.

**NOTE: WHEN DRAINING THE TANKS, BE SURE THE WATER PUMP IS OFF.**

**NOTE: WHEN DRAINING THE ENTIRE ON-BOARD FRESH WATER SYSTEM, BE SURE TO OPEN FAUCETS, WATER HEATER DRAIN AND SYSTEM LOW POINT DRAINS TO REMOVE ALL FRESH WATER FROM THE SYSTEM.**



**WATER TANK  
DRAIN VALVE**

Notes:

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## Section 5

# PLUMBING

### Water Pump

[Return to Index](#)

The Shurflo model# 4008 water pump supplied with your Aviator is designed to deliver smooth consistent flow of fresh water at all ranges of operation, while only drawing about 8 to 10 amps of DC current. This water pump draws water from the fresh water tank. The water pump switch is located on the monitor panel located in the bathroom. When the switch is on the water pump will automatically keep the fresh water system pressurized and operational. The water pump will cycle on and off on its own depending upon the fresh water demand.

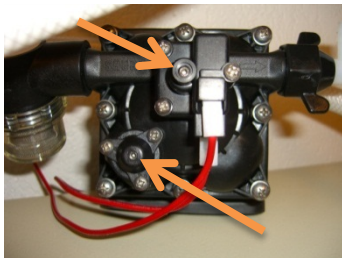
### Water Pump Operation

[Return to Index](#)

Pump cycling is greatly reduced with the new 4008 water pump. Some things to look for if the pump short cycles are:

- Low flow from partially open faucet.
- Water filters not on separate feed lines.
- Clogged water filters.
- Restrictive elbows and valves as possible in the first 2 feet after the pump.
- Flow restrictors in faucets and showerheads.
- Long lengths of small I.D. (inside diameter) lines.
- If replacing pipe/tubing, be sure it is at least 1/2" I.D. for main lines.

Below is a picture of the 4008 Water pump. The screws are factory preset and DO NOT requires any adjustments. If you feel an adjustment is necessary to the Water Pump set screws, please contact your Aviator Warranty Department prior to making any adjustments to the screws.



### Initial Start-up of the Water System

[Return to Index](#)

1. Make sure the tank is filled with water.
2. Open all faucets on your Aviator, both hot and cold.
3. Turn the water pump switch ON.
4. Allow time for the hot water tank to fill. Shut off each faucet as the flow becomes steady and free of air. When the last faucet is turned off, the pump should also shut off.
5. The system is now ready for use.

# Section 5 PLUMBING

## Monitor Panel

[Return to Index](#)

Monitor Panels show levels for all water tanks, and battery conditions along with switches for water pump, water heater, and tank heater pads. The condition of the batteries is displayed on the monitor panel by pressing and holding the “Battery” test switch. Your Monitor panel is located in the bathroom. Readings for the Battery levels are: C = 12.70 to 12.85 VDC, G = 12.10 to 12.15 VDC, F = 11.60 to 11.65 VDC, L = up to 6.00 VDC. All readings are  $\pm 5\%$ .



The monitor panel allows you to quickly check the levels in the fresh water and waste water tanks. Electrical sensors at various points on the tanks send signals to the monitor panel.

To check fluid levels, press and hold the *Switch* designated for the tanks and read the level indicators on the panel. The indicator is proportioned in quarters with each light indicating the level that the tank contains. Sometimes, residue on the sides of a tank, or water with a low mineral content will give a false reading. Check the levels occasionally when you are sure of a tank’s contents and compare it to the reading on the monitor panel. If you are concerned about the accuracy of the monitor panel, have it checked at your local Service Center.

**NOTE: REMEMBER THAT THE MONITOR PANEL HAS ADDITIONAL FUNCTIONS, SUCH AS DISPLAYING BATTERY AND LP LEVELS.**

## Tank Heaters (Optional)

[Return to Index](#)

Your Aviator has an option for Tank Heaters. The purpose of these heaters is to help keep the Fresh, Grey and Black tanks from freezing. To operate them, use the tank heater switches located on the monitor panel.

Notes:

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# Section 5 PLUMBING

## Sanitizing the Fresh Water System

[Return to Index](#)

Sanitize the system before initial use, after extended periods of non-use, at least once a year during continuous use, and if there is suspicion that the system has been contaminated.

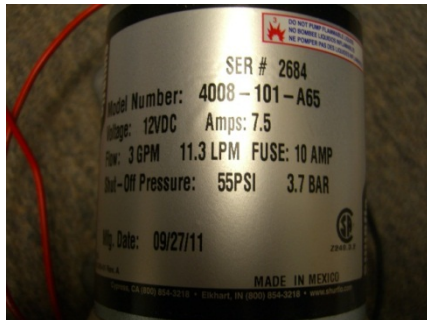
## Sanitizing the System

[Return to Index](#)

- Prepare a chlorine solution using a gallon of water and ¼ cup of liquid household bleach, (5% sodium hypo chlorinate solution.) Use one gallon of solution for each 15 gallons of tank capacity.

### Your Aviator fresh water tank capacity is 47 gallons

- With an empty tank and all faucets and drains closed, pour the solution into the fresh water tank.
- Completely fill the tank with fresh water.
- Turn on the water pump. Open all faucets one at a time until all air is purged and the water flows freely.
- Again, add fresh water to the tank until the water level reaches the fill spout.
- Allow the solution to stand in the tank, undisturbed, for at least 3 (three) hours.
- Drain the system by opening all faucets and the fresh water tank drain valve, while flushing the system with fresh water of drinking quality.
- Continue flushing the system, allowing the water to flow for several minutes.
- Close the tank drain valve and all faucets. Refill the system with water of known drinking quality.



Notes:

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## Section 5 PLUMBING

### Water System Winterization

[Return to Index](#)

When storing your Aviator through periods of freezing weather, in an unheated environment, it will be necessary to winterize the water system. Damage to water system components will result if the proper winterization steps are not taken.

**NOTE:** Before using the compressed air method, you will need a special adapter known as a [blowout plug](#). This plug allows compressed air to be delivered through the city water fill. This small, inexpensive adapter is available at most RV supply stores.

**⚠WARNING** NEVER USE AUTOMOTIVE ANTIFREEZE IN YOUR FRESH WATER SYSTEM. AUTOMOTIVE ANTIFREEZE IS TOXIC AND NOT FOR USE IN POTABLE (DRINKABLE) WATER SYSTEMS.

### Winterizing with Compressed Air

[Return to Index](#)

Purchase 2 gallons of RV non-toxic antifreeze.

1. Drain the fresh water tank and all waste water holding tanks. Note: Black tank needs to be emptied into an approved black tank dump station. **DO NOT** empty the black tank onto the ground.
2. Turn off water heater and water pump switch. Turn Water Heater bypass valve, located in the exterior convenience center to the 'bypass' position.



3. Drain water heater by removing the anode rod and opening the pressure relief valve and open all faucets, low point drains, and hold toilet flushing mechanism open until all water is done draining.
4. Remove the water filter from the canister, discard filter and re-install canister. (You will need to purchase a new filter and install it when de-winterizing your unit).
5. Open all faucets, including shower head sprayer, (if applicable), toilet flushing device, low point drains and any other water lines that are closed.
6. Turn on the water pump for at least 30 seconds to clear any water from the lines. Turn pump off.
7. Connect an air hose with an adapter blow out plug (purchased separately) to the city water fill inlet connection.



8. Set the pressure to no greater than 30 psi and blow out the water lines until no water can be seen coming out of the fixtures and lines.
9. Pour RV Antifreeze into drains, p-traps, toilet, and holding tanks. This includes the fresh water tank. **DO NOT PUT RV ANTIFREEZE INTO THE WATER HEAT TANK.**

**NOTE: DO NOT ATTEMPT TO START THE WATER HEATER OR USE THE PLUMBING SYSTEM AFTER THE SYSTEM HAS BEEN WINTERIZED. DEWINTERIZE, FLUSH AND SANITIZE THE WATER SYSTEM PRIOR TO USE.**

## Section 5 PLUMBING

### Winterizing with RV Approved Antifreeze Only

[Return to Index](#)

Purchase 4-6 gallons of RV approved, non-toxic antifreeze.

1. Unhook from all water sources and drain fresh water tank and all sewage tanks. Note: Black tank needs to be emptied into an approved black tank dump station. **DO NOT** empty the black tank onto the ground.
2. Turn off water heater and water pump switch. Turn Water Heater bypass valve, located in the exterior convenience center to the 'bypass' position.



3. Drain water heater by removing the anode rod and opening the pressure relief valve and open all faucets, low point drains, and hold toilet flushing mechanism open until all water is done draining.
4. Close all valves and remove the water filter from the canister, discard filter and re-install canister. (You will need to purchase a new filter and install it when de-winterizing your unit).
5. Make sure all faucets and valves are closed and turn the winterizing valve to the winterize position.



6. Connect a known clean hose to the Anti-freeze port and place the other end into a jug of RV anti-freeze, and turn on the water pump switch. Open faucets one at a time until the antifreeze, (generally pink in color), flows out of the faucets. Repeat for each faucet including the outside shower or washdown. If the jug gets empty before the pinkish color is present, turn off pump switch, remove hose from jug and use another full jug and repeat process until pinkish color flows through all faucets. Flush Toilet until anti-freeze flows through it also.
7. Turn off pump, remove hose from jug and unhook from Anti-freeze port.
8. Pour one gallon of antifreeze down the toilet to winterize the black holding tank.
9. Pour antifreeze down each shower/tub, lavatory sink and kitchen sink to fill p-traps.
10. To winterize gray tank(s), pour one gallon down each related sink drain.
11. Open one faucet cold side tap to de pressurize the system then reclose it.
12. Remove the water filter canister again and fill it about ¼ full of approved RV antifreeze and re-install the canister.
13. Return the Anti-freeze valve to the "Normal" position



**NOTE: DO NOT ATTEMPT TO TURN ON THE WATER HEATER OR USE THE PLUMBING SYSTEM ONCE THE SYSTEM HAS BEEN WINTERIZED. DEWINTERIZE THE WATER SYSTEM, FLUSH AND SANITIZE PRIOR TO USE.**

## Section 5 PLUMBING

Winterizing with RV Approved Antifreeze Only (cont'd)

[Return to Index](#)



**DO NOT USE AUTOMOTIVE ANTIFREEZE TO WINTERIZE POTABLE (DRINKABLE) WATER SYSTEMS. SUCH SOLUTIONS ARE HIGHLY TOXIC. INGESTION MAY CAUSE SERIOUS INJURY OR DEATH.**

**DANGER! INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.**

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De-Winterizing your Aviator

[Return to Index](#)

**NOTE: DO NOT ATTEMPT TO TURN ON THE WATER HEATER OR USE THE PLUMBING SYSTEM ONCE THE SYSTEM HAS BEEN WINTERIZED. DEWINTERIZE THE WATER SYSTEM, FLUSH AND SANITIZE PRIOR TO USE.**

1. Drain all holding tanks, (fresh water and sewage).
2. Attach garden hose to fresh water fill and fill tank.
3. Turn 'ON' pump switch and open cold water side of all faucet/shower fixtures. Leave open until the water runs clear, (no pink residue). Repeat for the hot water side.
4. Flush toilet until clear water runs into bowl.
5. Dump tanks again.
6. Sanitize the water system. (Refer to that section in this manual)
7. If a water filter has been installed, drain the lines, remove the assembly, clean and reinstall using a new filter.
8. When ready to use the water heater, turn by-pass valve to open position to allow water to enter and fill the hot water heater tank.

## Section 5 PLUMBING

### Waste Water System

[Return to Index](#)

The waste water system in your Aviator is two separate systems. A gray water system that consists of the drain lines and holding tank for waste water from the sinks and tub, and a black water system which includes the holding tank and drain for toilet wastes.

Each system is self-contained and allows disposal of waste water at designated dump stations at your convenience.

Components of the gray water system have drain traps, and both tanks (black tank for toilet waste, and gray tank for sinks and showers) are vented to equalize air pressure and disperse odors caused by drain water and wastes outside. Sometimes, the rocking movement of your Aviator while driving may empty the drain traps of their water and allow odors of the gray water tank to enter your unit.

Residue in the drain water lines can also produce odors. To combat gray water holding tank odors, an approved deodorizing agent should be used. An agent that dissolves grease and fats and contains a detergent will help keep tanks and the lines clean and free flowing. You can obtain the deodorizer at most campgrounds and stores that carry camping equipment.

If draining gray water tank directly into sewer inlet while parked, be sure to close termination valve for a period of time before leaving. This allows some water to accumulate in the tank to use for flushing drain line and flexible hose.

### **NOTE: IF CONNECTING TO A CAMPSITE SEWER INLET,**

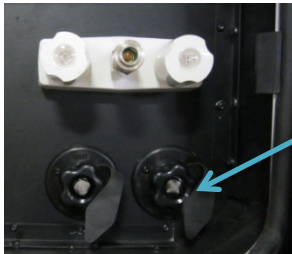
- **DO NOT OPEN TERMINATION VALVES UNTIL TANKS ARE 3/4 FULL.**
- **DO NOT KEEP BLACK WATER VALVE OPEN WHILE PARKED.**

Waste is **NOT** flushed directly into the sewer system. Only liquid waste is drained, therefore water must accumulate and chemicals in tank need time to break down solids before they can be released.

### Black Tank Flush Inlet

[Return to Index](#)

Your Aviator comes equipped with a Black Tank Flush Inlet. This is located in the exterior convenience center.



Connect one end of a hose to the Black Tank Flush Inlet, and the other end to a water source. Turn on the source and the water will go into the inlet and around the black tank from the inside to clean it out. You must have the black tank draining into an approved dump station. **DO NOT** dump black water waste on the ground.

## Section 5 PLUMBING

### Holding Tanks

[Return to Index](#)

Your Aviator has the termination valves and handles located on the off door side near the rear of the unit. The termination handles are located in the exterior convenience center while the termination valves are located under the rear of the unit.

The storage tanks are constructed of strong, light-weight polyethylene, which minimizes both weight and maintenance. Your Aviator has one gray water tank and one black water tank.

Each tank has a separate drain line and dump valve, which permits dumping tanks individually or together. Each tank should be emptied often, at dump stations designated for this purpose. These dump stations are found at most campgrounds and are well marked. Many service stations, particularly along interstate highways, also have these facilities. Campground directories list dumping station locations across the nation.

If possible, dump holding tanks before a trip, to reduce the gross vehicle weight. Enough water should be kept in the black water tank to cover the bottom to prevent hardening of any residue that may remain. Never dump black water tank until it is 2/3 full. This practice insures that enough water is in the tank to flush all wastes into sewer line. If necessary, fill the tank to the 2/3 level using the monitor panel tank level indicator with additional water before draining. Also you can use the [black tank flush inlet](#) when emptying the black tank.

Never put anything in the holding tanks other than normal drain water, wastes and biodegradable products. Paper wrappers, gum, cigarettes, etc. no matter how small, should NEVER be placed into either the gray or black tanks.

**NOTE: YOU CAN FIND BIODEGRADABLE PAPER PRODUCTS AT MOST STORES THAT SELL CAMPING SUPPLIES AND AT CAMPGROUNDS THAT HAVE A STORE ON THE PREMISES. YOU CAN ALSO FIND CHEMICAL SUBSTITUTES FOR DEPOSIT INTO THE WASTE TANKS, IF YOU PREFER.**

**NOTE: IT IS IMPORTANT TO NOTE THAT HARMFUL AND TOXIC MATERIALS CAN ACCUMULATE IF THE HOLDING TANKS ARE NOT REGULARLY DRAINED AND THOROUGHLY RINSED. IT IS ALSO IMPORTANT TO USE HOLDING TANK DEODORIZING AND CLEANING AGENTS IN THE WASTE WATER TANKS TO REDUCE ODORS AND KEEP THE LINES OPEN AND FREE FLOWING.**

Notes:

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## Section 5 PLUMBING

### To Empty the Holding Tanks

[Return to Index](#)

1. Remove the sewer drain hose from its storage compartment on the side of the coach.
2. Remove the cap from your Aviator drain and connect the drain hose to it.
3. Attach the other end of the flexible drain line to the dump station inlet. Be sure both ends of the flexible drain line are securely attached.
4. Drain the black water tank first, by pulling the termination valve handle toward you. Be sure to allow sufficient time for the tank to completely drain, then rinse the tank with several gallons of water by depressing the stool pedal or hand flush handle. Close the valve on the stool and let it fill before releasing to the tank. This creates additional force to flush the tank more completely. You may also use your [black tank flush inlet](#) to aid in the tank draining.
5. Drain the gray water tank by pulling the termination valve handle toward you. Draining the gray tank last uses the soapy water in the tank to rinse the drain and flexible hose.
6. When tanks are emptied, close termination valves by pushing handles back to closed positions.
7. Remove flexible drain hose and wash it thoroughly with clean water. Remove the other end from the dump station inlet and replace it in its storage compartment. Secure the sewer hose storage cover, and replace the caps on both the recreational vehicle outlet and the dump station inlet.

### To Ensure Trouble-free Waste Water Operation

[Return to Index](#)

- Never put anything in black water tank other than biodegradable RV toilet paper.
- Do not put automotive antifreeze, household toilet cleaners or drain cleaners, or any solid material into the waste water system.
- Always use chemicals in the black water system that are made especially for this purpose.
- When cleaning components of the waste water system, use cleaners made for RV systems.
- Always keep the drain cap in place and termination valves closed.
- After every third time the holding tanks are emptied, fill and flush both tanks with clean, fresh water a couple of times to keep them clear and clean.

**NOTE: KEEPING THE BLACK WATER TANK CLEAN ALLOWS THE MONITOR PANEL TO ACCURATELY ASSESS THE STATUS OF THE TANK. ALWAYS REMEMBER TO CLEAN UP THE DUMP SITE BEFORE LEAVING. NEVER EMPTY YOUR HOLDING TANKS DIRECTLY ON THE GROUND, OR INTO A RIVER OR STREAM.**

**DO NOT POLLUTE!**

Notes:

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## Section 5 PLUMBING

### Toilet

[Return to Index](#)



The toilet installed in your aviator is connected to the pressurized fresh water system.

A single lever arrangement controls flushing and the flow of water into the bowl.

- To add water to the toilet before using, lift the flush lever until the desired water level is reached. (As a general rule, more water is required only when flushing solids.)
- To flush the toilet, push the lever all the way down until the sewage leaves the toilet.
- Release the flush lever. A small amount of water should remain in the bowl.

Be sure to hold the flush lever down long enough to release the contents of the bowl, but not longer than necessary as this will result in excessive water usage.

Unnecessary, frequent flushing of the stool will quickly deplete your fresh water supply and fill your black holding tank. If the black water tank becomes full, you will no longer be able to flush the stool until the tank can be drained. Be sure all occupants and guests understand this operation.

Always use deodorizing agents specifically designed for use in holding tank systems and a good biodegradable tissue paper. These products are available directly from your dealer or any store that sells camp supplies.

**NEVER** use chlorine or caustic chemicals such as drain openers or laundry bleach in your toilet.  
**NEVER** allow foreign objects (non-dissolving items) to be flushed through the toilet.

Don't allow a problem to go unsolved. As soon as you detect a problem, take the necessary steps to correct it. It is also a good idea to carry a few spare parts that will correct a small problem that may develop. These parts can be obtained from your dealer or larger campground stores. Refer to the toilet manufacturers' information on your SD Card or in your Owner's packet to determine which part you may need, its correct name and part number. (If you have a different toilet than the one described, follow the manufacturer's recommendations for cleaning and maintenance.)

Notes:

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# Section 5

## PLUMBING

### **Water System Maintenance and Troubleshooting**

[Return to Index](#)

As with any mechanical system, your plumbing is subject to the development of problems. Most of these problems can be greatly reduced, if not eliminated, by following a schedule of planned inspections and maintenance. Neglect of proper maintenance procedures is the usual cause of most water system problems.

Road vibrations and shocks, as well as excessive pressure from some city water sources are the main physical causes of water system damage. It is important to inspect all plumbing joints and fittings often, for cracks and leaks. If left unchecked, water leaking from a plumbing joint can cause considerable damage.

A leak in the fresh water system should be suspected if the pump runs continuously and all faucets and valves are closed. When the leaking fitting has been identified, attempt to stop the leak by tightening the fitting. **DO NOT** over tighten. Plastic fittings rarely need to be tightened with a wrench. If these fittings leak after tightening by hand disconnect the fitting and check for dirt, scale, or other foreign substances which may be causing the leak. Clean the fitting thoroughly and reinstall. If leaking persists, shut off the water supply until the fitting can be properly replaced. Check with your dealer for the correct method of replacement and replacement parts.

Proper winterization procedures of plumbing systems will normally be all that is necessary to prevent the damage caused by freezing. Freezing damage can harm any component of the system, including the water tank/s, toilet, pump and all piping. Be sure to follow the [water system winterization procedures](#) outlined in this manual. Also be sure to discuss with your dealer or repair center, any additional precautions that should be taken, to winterize your Aviators plumbing system. Local climates vary and winter maintenance needs may be effected.

Be sure to read the literature supplied with plumbing components, such as the water pump, for troubleshooting tips. And also on your SD card. Also remember that it is possible for an electrical problem to cause water system problems. Lack of power to the pump can be caused by a variety of reasons.

If you are unsure of how to locate and/or repair a plumbing problem, it is best to have your dealer or a qualified plumber who is familiar with the RV water system, to inspect the system and perform any repairs needed.

**END OF SECTION**

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# Section 6 APPLIANCES

## **Appliances**

[Return to Index](#)

Each appliance in your Aviator is warranted by its manufacturer. It is very important that you review all the literature provided on your SD Card or in the Owner's packet that came with your Aviator. Fill out and mail any warranty registration cards required by the appliance manufacturers. If you have any questions regarding the operation of the appliances in your unit, contact your selling dealer. Also, please notify your dealer of any shortage of literature you may have.

It is important that you read all the manufacturer's information provided, regarding both operation and maintenance of the appliance. Pay close attention to all safety precautions given and follow them closely. Keep all literature, including this manual, with your Aviator for easy reference. If service on any appliance is required, contact your dealer or an authorized service representative of the appliance manufacturer. For your convenience, most appliance manufacturers have toll free service telephone numbers. You will find the listed contact information on [page 11](#) under the heading of [Component Manufacturer Contacts](#).

## **Cooktop**

[Return to Index](#)

### **To Prevent Fire or Smoke Damage (Cooktop)**

[Return to Index](#)

1. Keep area around appliance clear and free from combustible materials, gasoline, and other flammable vapors and materials.
2. If appliance is installed near a window, take proper precautions to prevent curtains from blowing over burners.
3. Never leave any items unattended on the cooktop. The hot air from the vent may ignite flammable items and may increase pressure in closed containers which may cause them to burst.
4. Avoid use or storage of aerosol cans near an appliance. Many are EXPLOSIVE when exposed to heat and may be highly flammable.
5. Do not leave plastic items on the cooktop as they may melt or soften. If this occurs, discard the container and contents, as the food could be contaminated.

Notes: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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## Section 6

# APPLIANCES

### To Prevent Fire or Smoke Damage (Cooktop) (Cont'd)

READ ALL INSTRUCTIONS BEFORE USING THE COOKTOP. THE FOLLOWING INSTRUCTIONS ARE BASED ON SAFETY CONSIDERATIONS AND MUST BE STRICTLY FOLLOWED TO ELIMINATE THE POTENTIAL RISKS OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY. HAVE YOUR APPLIANCE INSTALLED AND PROPERLY GROUNDED BY A QUALIFIED INSTALLER AND ACCORDING TO THE INSTALLATION INSTRUCTIONS. HAVE THE INSTALLER SHOW YOU THE LOCATION OF THE GAS SHUT OFF VALVE AND HOW TO SHUT IT OFF IN AN EMERGENCY.

TO ENSURE PROPER OPERATION AND AVOID POSSIBLE INJURY OR DAMAGE TO UNIT, DO NOT ATTEMPT TO ADJUST, REPAIR, SERVICE, OR REPLACE ANY PART OF YOUR APPLIANCE. ALL OTHER SERVICING SHOULD BE REFERRED TO A QUALIFIED INSTALLER OR SERVICER.

**ALWAYS DISCONNECT POWER TO APPLIANCE BEFORE SERVICING**

**▲WARNING**

**NEVER TURN EXHAUST FAN ON WITH FILTER SCREEN REMOVED. EXPOSED FAN BLADES POSE AN INJURY THREAT. DIRT AND GREASE DEPOSITS WHICH ARE NORMALLY TRAPPED BY THE FILTER ARE FREE TO BUILD UP IN THE COOKTOP EXHAUST DUCT, CREATING A FIRE HAZARD.**

**▲WARNING**

**IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEATING.**

The gas cooktop burners are operated using LP gas. Cooking appliances need fresh air for safe operation. Before operating this appliance:

- Open an overhead vent or turn on an exhaust fan, **AND** open a window.

Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle and proper ventilation when using the cooking appliance(s) will avoid dangers of carbon monoxide poisoning or asphyxiation.

Your Aviator has a three burner built in cooktop installed in it. It lights manually, by using a piezo ignition, which means there is no pilot light for the cooktop. Be sure the main LP gas valve on the LP tank is in the 'ON' position.

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

## Section 6

# APPLIANCES

### Lighting the Cooktop Surface Burners

[Return to Index](#)



The Cooktop surface burners can be lit with either a match or the Piezo pilotless ignition. Be sure all control knobs are in the **OFF** position before supplying gas to the appliance. Be sure the main LP gas supply is on before lighting the burner.

**CAUTION** IF THE BURNER DOES NOT LIGHT WITHIN ABOUT 4 SECONDS OR IF THE FLAME SHOULD GO OUT DURING COOKING, TURN THE BURNER OFF. IF GAS HAS ACCUMULATED AND A STRONG GAS ODOR IS DETECTED, OPEN A WINDOW AND WAIT 5 MINUTES FOR THE GAS ODOR TO DISAPPEAR BEFORE RELIGHTING THE BURNER.

**NOTE:** IF THE APPLIANCE HAS NOT BEEN OPERATED FOR A PERIOD OF TIME, THE SURFACE BURNERS MAY BE DIFFICULT TO LIGHT DUE TO AIR IN THE GAS LINE.

**CAUTION** DO NOT TURN THE CONTROL KNOB 'ON' AND ALLOW GAS TO ESCAPE BEFORE LIGHTING THE MATCH.

### To Bleed Air from Cooktop LP Line

[Return to Index](#)

- Hold a lighted match next to the burner
- Turn the surface burner control knob to the **LITE** position
- When the burner lights, turn the knob back to the **OFF** position
- Depending upon your model, follow the procedure for either 'Matchlit' ignition or 'Piezo' ignition.

### Cooktop Match Lit Ignition

[Return to Index](#)

1. Place a pan on the burner grate.
2. Hold a lighted match next to the desired surface burner head.
3. Push in and turn the surface burner control knob to the **LITE** position.
4. When the burner lights, adjust the knob between **HI** and **LOW** to select the desired flame size.
5. After cooking, turn the surface burner knob to the **OFF** position.

### Cooktop Piezo Ignition

[Return to Index](#)

1. Place a pan on the burner grate.
2. Push in and turn the surface burner control knob to the **LITE** position. (IMPORTANT: Only light one surface burner at a time.)
3. Immediately, rotate the TOP BURNER IGNITOR knob to the right (clockwise) several clicks until the burner lights. The burner should light within 3 clicks or one full rotation of the knob.

**CAUTION' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN VEHICLE DAMAGE OR MINOR TO MODERATE INJURY.**

Notes:

# Section 6 APPLIANCES

**Cooktop Piezo Ignition (Cont'd)**

[Return to Index](#)

- 4. When the burner lights, adjust the surface burner control knob between **HI** and **LOW** to select the desired flame size.
- 5. After cooking, turn the surface burner control knob to the **OFF** position.

**If the Cooktop Piezo Ignitor is not functioning**

[Return to Index](#)

- Be sure all controls are in the **OFF** position
- Hold a lighted match to the desired surface burner head (DO NOT turn the control knob ON and allow gas to escape before lighting the match.)
- Push in and turn the surface burner control knob to the **LITE** position
- When the burner lights, adjust the knob between **HI** and **LOW** to select the desired size
- After cooking, turn the knob to the **OFF** position



**WHEN YOUR AVIATOR IS NOT IN USE OR WHILE TRAVELING, TURN ALL COOKTOP KNOBS TO THE OFF POSITION AND TURN OFF THE MAIN GAS SUPPLY.**

**NOTE: A DELAY IN THE TIME IT TAKES TO LIGHT THE PILOT MAY SIGNAL A NEED [TO BLEED AIR FROM THE COOKTOP LP LINE.](#)**

**'CAUTION' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN VEHICLE DAMAGE OR MINOR TO MODERATE INJURY.**

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# Section 6 APPLIANCES

### Cooktop Shutdown Instructions

[Return to Index](#)

When your Aviator is not in use or while traveling, turn all three cooktop knobs to the **OFF** position and turn off the main gas supply.

**NOTE: DO NOT USE CANNERS OR OVERSIZED COOKWARE. THE PAN SHOULD NOT BE MORE THAN ONE INCH LARGER THAN THE BURNER GRATE.**

### Convection Microwave Oven (General Use)

[Return to Index](#)



- UNDER certain conditions some condensation may appear on the glass door, this is normal and not a Defect. The condensation will dissipate after a short time.
- DO NOT attempt to defeat or tamper with safety interlocks.
- DO NOT place any object between the oven front frame and the door.
- DO NOT allow residue to build up on sealed surfaces.
- DO NOT subject the oven door to strain or weight
- DO NOT operate the oven if door seals are damaged, door is bent, or if door hinges are loose or broken.
- DO NOT operate the oven empty.
- DO NOT attempt to dry clothing, newspapers or other material in the oven.
- DO NOT use recycled paper products as they may contain impurities which may cause sparks or fires.
- DO NOT hit or strike the control panel with hard objects.

### General Convection Microwave Oven Operation

[Return to Index](#)

- The oven light in the Convection Microwave oven is on only during operation or if the door is open.
- The oven automatically cooks on full power unless set to a lower power level.
- When the **STOP/CANCEL** pad is touched during the oven operation, the oven stops cooking and all information is retained. To erase all information (except the present time), touch the **STOP/CANCEL** pad once more. If the oven door is opened during operation, all information is retained.
- If the **START** pad is touched and the oven does not operate, check the area between the door and door seal for obstructions and be sure the door is closed securely. (The oven will not start cooking until the door is completely closed or the program has been reset.)

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## Section 6

# APPLIANCES

### General Convection Microwave Oven Operation (Cont'd)

[Return to Index](#)

• There is a control panel lock on your Convection Microwave oven. Locate the **STOP/CANCEL** button and press and hold for 5 seconds. You will see a lock icon appear and hear two beeps. To unlock the Convection Microwave Oven, press and hold the **STOP/CANCEL** button for 5 seconds and the lock icon will disappear and you will hear two beeps.

### Convection Microwave Oven Food

[Return to Index](#)

- DO NOT use your Convection Microwave Oven for home canning.
- DO NOT use the maximum recipe cooking time unless you have previously done so.
- DO NOT heat eggs in the shell.
- DO NOT cook potatoes, apples, egg yolks, and sausages without first piercing the surface.
- DO NOT attempt to deep fry with fat in your microwave oven.

### Refrigerator

[Return to Index](#)

Your refrigerator operates on the absorption system. In an absorption refrigeration system, ammonia is liquefied in the finned condenser coil at the top rear of the refrigerator. The liquid ammonia then flows into the evaporator (inside the freezer section) and is exposed to a circulating flow of hydrogen gas, which causes the ammonia to evaporate, creating a cold condition in the freezer.

**When starting the refrigerator for the first time, the cooling cycle may require up to four hours of running time before the cooling unit is fully operational.**

### Refrigerator Leveling

[Return to Index](#)

How level does the refrigerator need to be? The correct answer is comfortably level. Leveling is one of the requirements for proper operation with absorption refrigerators. Any time your Aviator is parked for several hours with the refrigerator operating, the vehicle should be leveled to prevent loss of cooling. If the refrigerator is operated when it is not level and the vehicle is not moving, liquid ammonia will accumulate in sections of the evaporator tubing. This will slow the circulation or in severe cases, completely block it, resulting in a loss of cooling. When your Aviator is moving, the rolling and pitching movement of the vehicle will help to keep the liquid ammonia from accumulating.

### Refrigerator Automatic Energy Selector System (AES)

[Return to Index](#)

Your refrigerator may be equipped with a 2 way automatic energy selector system. The selector switches are located above the freezer door.



**ON/OFF**- Turns Refrigerator on and off.

**AUTO**- Will run in VAC power first and switch over automatically when VAC is no longer present. Will switch to LP Gas mode when VAC is not present and there is a good LP Gas supply.

**GAS**- LP Gas only.

**CHECK**- Turns on when LP Gas mode is not functioning.

**COLDEST**-Each press will light a light. 1 being warmer, 5 being coldest.

# Section 6 APPLIANCES

**Refrigerator Auto Mode**

[Return to Index](#)

When on AUTO mode, the control system will automatically select between 120 volt (AC) and LP gas. AC (electricity) has priority over GAS. (If the CHECK indicator lamp is on, the lamp will not turn off until the ON/OFF button is pressed OFF and then ON again.)

**Refrigerator GAS Mode**

[Return to Index](#)

This mode provides LP gas only. The control system activates the ignition system and attempts to light the burner for a period of approximately 45 seconds, at 2 minute intervals. If unsuccessful, the CHECK indicator lamp will illuminate.

If the CHECK indicator lamp is illuminated on the control panel, the controls have failed to ignite the burner. To restart an ignition attempt when the CHECK lamp is illuminated (or to turn off the CHECK lamp), press the ON/OFF button to OFF and back to ON again. The control system activates the ignition system and makes three attempts to light the burner. If, after the 3 attempts, it fails to ignite, restart the ignition sequence by again pressing the ON/OFF button to OFF and then back to ON.

**WHEN IN AUTO MODE, IF THE REFRIGERATOR FAILS TO OPERATE, REFER TO THE MANUFACTURERS USER MANUAL PROVIDED WITH THE FOREST RIVER OWNER'S PACKET.**

**Refrigerator Temperature Control**

[Return to Index](#)

With each press of the coldest button an amber led light will light indicating the desired temperature. 1 is the warmest setting, 5 is the coldest.

**Purging Air from the Refrigerator LP Lines**

[Return to Index](#)

If the refrigerator has not been used for a long period of time or if the LP tanks have just been refilled, air may be trapped in the supply lines. Purge the air from the lines by pressing the ON/OFF button to OFF and then back to ON, 3-4 times. If repeated attempts fail to start the LP gas operation, check to make sure the LP tanks are not empty and that all manual shutoff valves in the lines are open.

**DO NOT** continue to reset GAS operation if the CHECK indicator lamp continues to be illuminated after several tries. If the problem persists, please contact a Service Center for assistance.

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## Section 6 APPLIANCES

### Furnace

[Return to Index](#)



**WHEN REFUELING OR PARKED NEAR GASOLINE PUMPS, SHUT OFF ALL LP GAS APPLIANCES. FAILURE TO HEED THIS WARNING COULD CAUSE A FIRE OR EXPLOSION RESULTING IN DEATH OR SEVERE PERSONAL INJURY AS WELL AS DAMAGE TO YOUR AVIATOR AND/OR SURROUNDING AREA. BEFORE OPERATING THE FURNACE CHECK THE LOCATION OF THE FURNACE VENT TO BE SURE IT WILL NOT BE BLOCKED BY THE OPENING OF ANY DOOR ON YOUR AVIATOR (OR BY EXTERIOR ITEMS SUCH AS A BUSH OR A TREE.)**

Tips to assure continued safe operation of the furnace

1. Inspect furnace venting. Venting must be free of obstruction and soot.
2. Periodically observe the main burner flame to ensure it is burning with a hard blue flame. If the flame appears yellow or lazy, shut the furnace down. The burner may need to be cleaned or replaced.
3. Keep the furnace area clear of any combustible materials. Gasoline or other flammable vapor and liquids.

### Turning the Furnace On

[Return to Index](#)

First make sure your LP tanks have LP in them and are turned on and the LP regulator is set to the proper position. Make sure your converter is on or your batteries are in good condition for supplying 12 volt power to the Wall Thermostat and the Furnace. Next press the Mode button on the Heat/Cool Wall Thermostat until the green LED light by Furnace is lit.



Using the (+) and (-) buttons set the temperature you want inside the Aviator. Note: by pressing both the (+) and (-) buttons at the same time you will switch from Fahrenheit to Celsius and back with each press.

### Turning the Furnace Off

[Return to Index](#)

Press the On/Off Mode button until the green LED lit by the On/Off Mode button is lit. This means everything is turned off and within 15 to 30 seconds the green Led light will go out. The Furnace may still have to purge out the warm air and may take a few minutes before it shuts off.

**NOTE: TO PROPERLY OBSERVE BURNER OPERATION, THE FURNACE MUST BE REMOVED. THIS SHOULD ONLY BE DONE BY YOUR DEALER OR A QUALIFIED SERVICE CENTER.**



**SHOULD OVERHEATING OCCUR OR THE GAS SUPPLY FAIL TO SHOUT OFF, SHUT OFF THE MANUAL GAS VALVE TO THE APPLIANCE BEFORE SHUTTING OFF THE ELECTRICAL SUPPLY.**

## Section 6 APPLIANCES

Furnace (Cont'd)

[Return to Index](#)



**DO NOT INSTALL SCREENS OVER THE VENT FOR ANY REASON. DOING SO CAN CAUSE UNSAFE FURNACE OPERATION.**





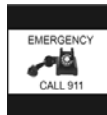
**BE SURE THE FURNACE AND ALL IGNITION SYSTEMS ARE 'OFF' DURING REFUELING AND WHILE VEHICLE IS IN MOTION.**



**READ THE FURNACE MANUFACTURERS USERS MANUAL. IF THE INFORMATION IN THE MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.**

If You Smell Gas:

- Extinguish any open flame. 
- Evacuate all persons from the vehicle. **EXIT**
- Shut off the gas supply at the gas container or source.
- Do not touch any electrical switch or use the phone or radio in the vehicle. 
- Do not start a generator.
- Contact the nearest gas supplier or qualified service center for repairs.
- If you cannot reach a gas supplier or qualified service center, call the fire department



**DO NOT TURN ON THE GAS SUPPLY UNTIL THE GAS LEAK(S) HAS BEEN REPAIRED. YOU, AS THE OWNER/USER, SHOULD INSPECT THE FURNACE MONTHLY DURING THE HEATING SEASON FOR PRESENCE OF SOOT ON THE VENT. THE PRESENCE OF SOOT INDICATES INCOMPLETE COMBUSTION. OPERATING THE FURNACE UNDER THIS CONDITION COULD LEAD TO SERIOUS PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE. IF SOOT IS OBSERVED ON THE VENT, IMMEDIATELY SHUT THE FURNACE DOWN AND CONTACT A QUALIFIED SERVICE AGENCY.**

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

**DANGER! INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.**

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## Section 6 APPLIANCES

### Water Heater

[Return to Index](#)



**CAREFULLY FOLLOW THE WATER HEATER MANUFACTURERS DETAILED INSTRUCTIONS REGARDING THE CORRECT OPERATION OF YOUR WATER HEATER. FAILURE TO DO SO COULD VOID YOUR WARRANTY.**

Water heaters require very little care. However, the most common cause of problems with your water heater is initiating operation before the tank is filled with water. Even running it for a brief period of time without water will damage the electric heating element, which may cause your GFCI to trip continually. Prior to operating your Aviator water heater for the first time, be sure there is water in the water heater tank. Be sure that the water heater by-pass valve, is open, to allow water flow into the tank. Next, connect your Aviator to a water source or turn on the onboard water pump. Open a hot-water tap and wait until water is flowing, with no air in the line. When water is flowing from the tap, the water heater tank is full, and it is safe to operate the water heater.

**Note: Suburban manufacturing states that starting with Water Heater Serial # 122203675 new style Heating Elements are installed that should prevent dry firing. See the Water Heater manual that is on this SD card or that was preloaded on your tablet for more information.**

**⚠ WARNING DO NOT STORE OR USE GASOLINE OR OTHER COMBUSTIBLE MATERIALS OR LIQUIDS NEAR OR ADJACENT TO THE WATER HEATER OR ANY OTHER APPLIANCE.**



### Water Heater Automatic Shut Off

[Return to Index](#)

The water heater is equipped with a high temperature limit switch, which will shut down the water heater if the temperature reaches above 1800. If the limit switch should fail, the water heater is equipped with a pressure relief valve which is designed to open, if the temperature of the water reaches 210 degrees F, or if excessive pressure builds up. The valve will close automatically once the pressure falls below 50 PSI. Until the pressure falls below 50 PSI, dripping may occur. This normal and indicates the pressure relief valve is functioning properly by releasing pressure, causing temporary dripping.

### Water Heater Odor

[Return to Index](#)

Odor from the water is not a warranty or service issue. Many water supplies contain enough sulphur to produce a 'rotten egg' odor. It is not harmful, only unpleasant. The solution is to chlorinate the water. You may add about 6 ounces of common household liquid bleach per 10 gallons of water in the tank. Run the chlorinated water throughout the system, opening each faucet one at a time until you smell the chlorine. Do not operate the water system for a couple hours, allowing the chlorine to take care of the problem. However, then you must remove the chlorine by flushing the system with fresh water. You may need to do this more than once. If this process does not remove the smell from the water, you may need to replace the anode rod. You may also consider adding a filtering system as a preventive measure.

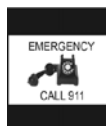
**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

## Section 6 APPLIANCES

### Water Heater (Cont'd)

[Return to Index](#)

#### If You Smell Gas



- DO NOT light any appliance.
- DO NOT touch any electric switch.
- DO NOT use any telephone in the unit.
- Immediately call your gas supplier from an outside phone. Follow the gas suppliers' instructions.

**NOTE: IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT.**

### Turn On Water Heater

[Return to Index](#)



1. Make sure there is water in the water heater, and the LP gas supply is on and LP tank is full.
2. Turn the water heater switch to the ON position. (Located on the Monitor Panel bezel in the bathroom.)
3. The switch will light along with the DSI FLT light. After a few seconds the water heater will try to Ignite. If the water heater ignites, the DSI FLT light will go out. If after 3 tries the water heater does not light, the DSI FLT light will remain on telling you the water heater failed to ignite. If this happens inspect the water heater for any signs of problems. If you smell gas by the Outside of the water heater, DO NOT try to light it again. Refer to the above If You Smell Gas.
4. If you do not smell Gas, turn the water heater switch off for a few seconds and then turn it back on.
5. If the water heater fails to light in these three attempts, contact your Aviator dealer.

### Turn Off Water Heater

[Return to Index](#)



1. Turn switch to OFF position.
2. Turn off electrical power to the appliance.
3. Turn off gas supply.
4. If vehicle is to be stored or water heater is going to be turned off while subject to freezing temperature, drain the water heater.

# Section 6 APPLIANCES

## **Water Heater (Cont'd)**

[Return to Index](#)

### **Water Heater Storage and Draining**

[Return to Index](#)

If your Aviator will be stored during winter months, drain the water heater to prevent damage from freezing.

1. Turn off electrical power to water heater either at the switch or the breaker.
2. Shut off gas supply to water heater.
3. Turn off water pump on main water system.
4. Open both hot and cold water faucets.
5. Remove anode rod from tank.

Refer to the [Water System Winterization](#) section of this manual regarding draining and/or winterizing your water system.

### **Water Heater Pressure Relief Valve**

[Return to Index](#)

Your water heater has a pressure relief valve. The purpose of this valve, is to allow excessive pressure to be released so your water system is not damaged. Since your water system is a closed system, the buildup of water pressure needs to go somewhere should the pressure build up. Some think that when the valve is relieving pressure, it is defective because it keeps leaking. This is not the case. Your relief valves sole purpose is to prevent your water system from being damaged due to too much pressure being built up in the system and have nowhere to go. If you suspect your water heater relief valve to be defective, please contact your dealer. They will be able to help you determine if you have a defective water heater relief valve.

### **Water Heater Winterizing**

[Return to Index](#)

If your water heater plumbing system is equipped with a bypass kit, use it to close off the water heater, drain it completely and leave it closed, (in the bypass position). If you are introducing anti-freeze into the system, be aware that it can be very corrosive to the anode rod causing premature failure and leaving heavy sediment in the tank.

If the plumbing system is not equipped with a bypass kit and you intend to winterize by adding antifreeze, remove the anode rod (storing it for the winter) and replace it with a 3/4" drain plug. For more information regarding this process, contact your dealer.

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## Section 6 APPLIANCES

### Wall Thermostat- Heating and Cooling (Main room)

[Return to Index](#)



Many factors influence the ambient temperature inside your Aviator. The purpose of a thermostat is to keep the air temperature at the level you have selected. There are several things you can do to help manage the inside temperature, to avoid over-stressing your heating and cooling appliances.

### Wall Thermostat Heating (Main room)

[Return to Index](#)

1. Check to be sure there are no gaps in windows or doors that would allow loss of heat.
2. Park the RV so the front or rear of the unit takes the brunt of wind force.
3. Have your furnace checked to ensure it is operating at its' highest capacity.
4. Keep all vents free of obstruction.

See [Turning the Furnace On](#) and [Turning the Furnace Off](#).

### Wall Thermostat Cooling (Main room)

[Return to Index](#)

1. Park the RV in a shaded area.
  2. Use window shades, blinds or curtains.
  3. Keep windows and doors shut or minimize usage.
  4. Avoid the use of heat producing appliances.
  5. Installing window awnings will reduce heat gain by removing direct exposure to the sun.
- Starting the air conditioner in the morning and giving it a head start on the expected high outdoor ambient temperature will greatly improve its ability to maintain the desired indoor temperature. Whether using the HEATING or the COOLING function of your thermostat, condensation is always an issue. Keeping your Aviator at a constant temperature helps keep condensation at a minimum. For more information on the effects of condensation on your Aviator, refer to the [Condensation](#) section.

### To Turn Roof A/C On (Main room)

[Return to Index](#)

Press the On/Off Mode button on the wall Thermostat and keep pressing it until you get the green LED light to light next to Cooling. See picture:



Using the (+) and (-) buttons set the temperature you want inside the Aviator. Note: by pressing both the (+) and (-) buttons at the same time you will switch from Fahrenheit to Celsius and back with each press.

### To Turn Roof A/C Off (Main room)

[Return to Index](#)

Press the On/Off Mode button until the green LED lit by the On/Off Mode button is lit. This means everything is turned off and within 15 to 30 seconds the green Led light will go out. The Furnace may still have to purge out the warm air and may take a few minutes before it shuts off.



# Section 6 APPLIANCES

### Television (TV)

[Return to Index](#)


Your Aviator uses Sony® 32" TV's. Refer to your Tablet for operating instructions of your TV or use the I-manual on the TV menu itself.

Your Aviator is prewired for cable. Your TV's run on 110 volt power. Your coach must be connected to shore power for the TV's to operate.



### Television (TV) Antenna and Booster

[Return to Index](#)

Your Aviator is equipped with a Omni directional antenna that requires nothing to be done to it. Simply turn on the power button on the TV wall plate in the living room to amplify your TV signal. The TV antenna should only be used when your Aviator is parked.



**Be sure to turn off the power booster when not in use.**  
**The booster can drain the battery if allowed to remain continuously activated.**  
**There is an indicator light on the power booster which is illuminated when it is on.**  
**It will be either a green LED light or a red LED light to indicate the booster is on.**



Notes:

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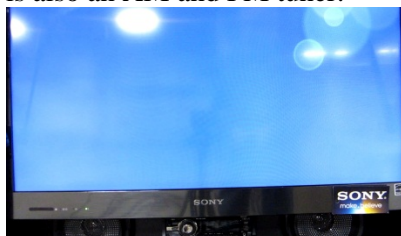
## Section 6

# APPLIANCES

### Outside Entertainment Center (optional)

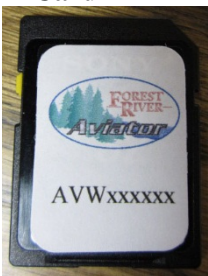
[Return to Index](#)

Your Aviator has an option for an outside entertainment center. This consists of outside speakers and a Multidisc player, as well as an option for a 32" Sony® TV. The Multidisc player can play CD's or DVD's, can play MP3's, and also has Aux input for playing devices that have an Aux out capability, and is also an AM and FM tuner.



### SD Card

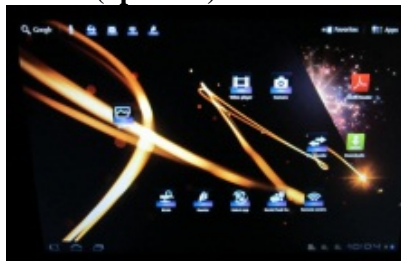
[Return to Index](#)



Your Aviator comes standard with an SD Card that has all component Manuals, your Aviator owner's manual, and other information regarding your Aviator. This SD Card is a standard full size SDHC card that can be used in any PC, or any other device that accepts an SDHC SD Card. Hyperlinks within the documents on the SD Card will not work on the Android based devices. Search features will work on any document that was created in pdf. Scanned documents will not have the search feature capabilities.

### Tablet (optional)

[Return to Index](#)



Your Aviator has an option for an Electronic Tablet. If this option was chosen a Sony® Tablet is included with your Aviator. In this option you receive an SD Card, Tablet, and Instructions on what you need to do to activate the information to the tablet.

## Section 6 APPLIANCES

### **Blu Ray Player:**

[Return to Index](#)

Your Aviator comes standard with a Sony® 1000 watt Blu Ray 5.1 Home Theater System. This multi-functional HTS has many features. Refer to the Blu Ray owner's manual for more information.



On Main TV When playing a disc in the Blu Ray player, you must remember to turn the BX330 TV Volume all the way down. If you do not turn the TV volume down, poor sound quality will be experienced.

On Bedroom TV, use the TV volume up or down to control the output sound.

### **Wireless Router:**

[Return to Index](#)

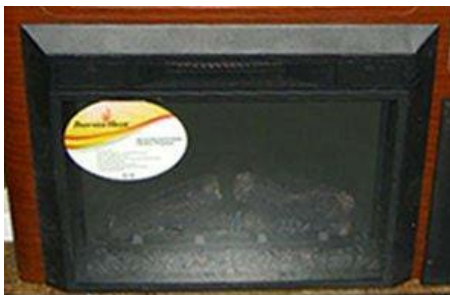
Your Aviator has an option for an Electronic Tablet which also includes the wireless Router. Refer to your Router's owner's manual for more information on setup and functions.



### **Fireplace**

[Return to Index](#)

To operate your fireplace open the cover on the top right hand side of the Fireplace and turn the switch on. You can then use the buttons to select Heat, Flame or Off settings. You can also use the remote or your Tablet to operate the Fireplace. When turned on the switch will be illuminated in red. If turning the switch on does not illuminate, be sure you are plugged into VAC power and your VAC circuit breakers are turned on. If you are properly connected to VAC power, the VAC circuit breakers are all on, and the fireplace switch still does not illuminate, contact your selling Aviator Dealership.



# Section 6 APPLIANCES

### Roof Air Conditioner

[Return to Index](#)

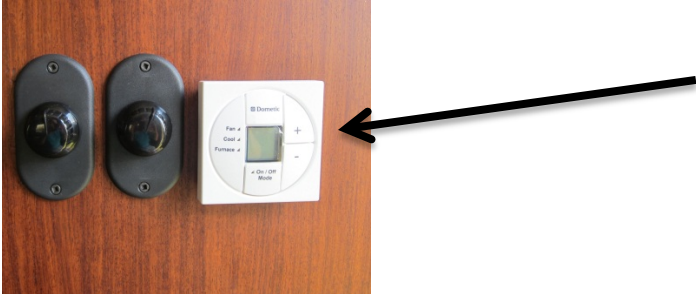
Your Aviator is equipped with a roof mounted air conditioner and has an option for a second Roof A/C which would be mounted in the bedroom. They both operate on 110 volt and on 12 volt power.

See [Wall Thermostat Cooling](#), [To Turn Roof A/C On](#), and [To Turn Roof A/C Off](#). Efficiency when using the air conditioning can be increased by closing all windows and curtains and parking your Aviator in the shade. Air conditioning consumes a large portion of the electric power available in your Aviator and efficient operation can be an important consideration.

### Second Roof Air Conditioner (optional)

[Return to Index](#)

The Wall Thermostat located in the bedroom (see picture below) controls the optional Second Roof A/C only. To turn it on press the On/Off Mode button and when the green led light is lit by Fan press the (+ or -) buttons to select fan speed (Hi, Lo, or Auto). Next press the On/Off Mode button again until the green led light by Cool is lit and use (+ or -) buttons to select your temperature. Pressing both the (+ and -) buttons together will switch from Fahrenheit to Celsius back and forth. To turn the second Roof A/C off press the On/Off Mode button until the green led light is lit by the On/Off Mode button. After a few seconds the Roof A/C will shut off.



**Note: The heat function does not control the furnace on the bedroom wall thermostat as this bedroom wall thermostat only operates the optional Second Roof A/C using the Fan and cooling modes.**

Even though your Aviator is equipped with 50 amp capabilities, be aware that some campgrounds may offer less than 50 amp service. Check with the campground before utilizing excessive power, which may create a fire hazard or trip breakers, in either your Aviator, or the outside power source.

**NOTE: ALWAYS TURN OFF AIR CONDITIONER (AND ALL ELECTRICAL APPLIANCES) BEFORE DISCONNECTING THE RV FROM ITS' 110 VOLT POWER SOURCE.**

**NOTE: IF YOU COVER THE OUTSIDE PORTION OF YOUR AIRCONDITIONER DURING PERIODS OF STORAGE, BE SURE TO REMOVE PROTECTIVE COVER BEFORE REUSING.**

**END OF SECTION**

Notes:

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# Section 7

## CARE AND MAINTENANCE

### General Care and Maintenance

[Return to Index](#)

Periodic minor maintenance and cleaning of your Aviator is necessary to retain the dependability, safety and appearance that will provide you with many miles of trouble free operation as well as protecting your investment.

Keep good records of maintenance functions performed and be sure to follow all owner obligations.

It is also important to note that operating conditions will effect service timetables. Driving in extreme conditions such as heavy dust, continuous short trips, or start and stop heavy traffic means that the length of time between service appointments will be shortened. Discuss service timetables with your dealer.

Preventative maintenance will pay for itself many times over by catching or preventing problems before they occur. Many repair costs are greatly increased by ignoring problems when they are small ones, allowing them to build into larger problems and possibly voiding your warranty due to neglect, misuse or abuse. If left unattended, small problems may also begin to effect other parts and systems of the Aviator.

### Fiberglass Exterior

[Return to Index](#)

The care of fiberglass siding is basically the same as any automotive finish. Any finish will deteriorate with time. Dulling and fading can be increased by exposure to extreme sunlight, air pollutants and excessive moisture. Regular washing will help prevent this from occurring. If surface deterioration such as yellowing or chalking occurs, for proper procedure, consult with your dealer.

- Wash the exterior monthly with warm water and a mild detergent.
- Avoid spraying water directly into refrigerator and furnace vents.
- Immediately remove bird droppings, tree sap, insects and tar to avoid staining.
- Wax at least once a year with a standard liquid or paste wax.
- Prolonged storage of your Aviator should be in a sheltered environment, when possible.

**NOTE: PHYSICAL DAMAGE TO FIBERGLASS SHOULD BE ADDRESSED IMMEDIATELY TO AVOID MOISTURE ENTERING THROUGH BREAKS AND CAUSING PROBLEMS WITH INTERIOR WALLS AND COMPONENTS. COVER BREAKS IN THE FIBERGLASS WITH PLASTIC, SEALING THE EDGES WITH TAPE UNTIL PROPER REPAIRS CAN BE MADE.**

Notes:

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## Section 7

# CARE AND MAINTENANCE

### Seals and Adhesives

[Return to Index](#)

It is important to maintain the seals and adhesives to prevent moisture from entering and destroying Aviator components. Although your Aviator was built as a Low maintenance unit, you still should at least check seals twice a month for cracking, tearing, or normal wear and tear. Normal wear and tear is not considered to be a defect that would be covered under warranty. Only a defect in workmanship or materials would be considered warranty and is at the sole discretion of the Aviator by Forest River division. When washing your Aviator, inspect the seals for signs of drying out and wear. Be aware that weather and road vibration will have an effect on seals, causing them to dry, crack or separate. If you are unsure what to look for, have your dealer instruct you regarding the correct method for renewing the seals, or you may prefer to have the dealership inspect and reseal your unit, if necessary.

**▲WARNING** FAILURE TO MAINTAIN SEALS THROUGH REGULAR MAINTENANCE CAN LEAD TO DAMAGE AND MAY BE CONSIDERED NON WARRANTY COVERAGE UNDER THE TERMS OF YOUR AVIATOR RECREATIONAL VEHICLE WARRANTY.

### Windows and Doors

[Return to Index](#)

Check the seals around the windows regularly, if sealant is present. Follow the above instructions for care and maintenance of window and door seals and repair as necessary and if applicable.

Adjust and lubricate latches and moving parts annually, to insure windows remain operative. Also check the condition and operation of door locks, adjusting and lubricating as necessary.

Vinyl seals around windows and doors should be cleaned regularly and kept flexible by using a silicone spray or lubricant. Be sure to follow the directions on the product container.

Keep screens and window slides clean and free of debris. Periodically test the operation of all windows and their components.

If you are unsure about the correct methods of lubrication and adjustment, check with your dealer.

**▲WARNING** MOISTURE CAN ACCUMULATE IN LOCKS AND HINGES OF WINDOWS AND DOORS, CAUSING DAMAGE OR FAULTY OPERATION. DO NOT FORCE THE OPERATION OF THESE COMPONENTS IN FREEZING WEATHER.

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

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# Section 7

## CARE AND MAINTENANCE

Windows and Doors (Cont'd)

[Return to Index](#)



**DO NOT COVER EMERGENCY WINDOW(S). THESE EXIT WINDOWS MUST REMAIN ACCESSIBLE AT ALL TIMES. BE SURE ALL OCCUPANTS AND GUESTS KNOW WHICH WINDOWS ARE THE EMERGENCY EXIT WINDOWS AND UNDERSTAND HOW TO USE THEM.**



Emergency exit window

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

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## Section 7

# CARE AND MAINTENANCE

### Frame, Extrusions and Aluminum Surfaces

[Return to Index](#)

Check the condition of the frame regularly. Keep it clean and repaint as necessary, to help avoid rust. It is especially important to keep underbody components clean when driving your Aviator in the winter in areas where road salts are used.

To help avoid surface pitting, clean and wax all extrusions when waxing the Aviator sidewalls. Special aluminum cleaners are available to restore the original luster to aluminum surfaces. Be sure to follow the instructions for use as outlined on the product package.

### Roof

[Return to Index](#)

Inspection of roof components at least twice a year is very important to make sure seams and seals are not cracked or worn. Although your Aviator was built as a low maintenance unit, proper maintenance inspection is still necessary to keep moisture from entering and causing severe damage. If you encounter dry, cracked or weathered seals, reseal or replace as necessary. Check with your dealer for the type of caulking required for rubber roofs and correct methods of resealing or replacing. A mild automotive car wash type of soap can be used to clean your fiberglass roof. This should also be followed up by using an automotive car wax for added protection.

**▲WARNING** IF YOUR ROOF SHOULD BECOME PUNCTURED OR DAMAGED, COVER THE EFFECTED AREA TO SEAL OUT MOISTURE AND HAVE IT REPAIRED IMMEDIATELY.

**▲WARNING** USE CAUTION WHEN STORING ITEMS ON THE ROOF. YOUR AVIATOR HAS NO PROVISIONS MADE FOR A ROOF RACK OR LADDER; THEREFORE THERE IS NO REINFORCEMENT FOR THESE ITEMS. SHOULD THE NEED ARISE FOR YOU TO INSPECT THE ROOF, USE EXTREME CAUTION WHEN ON THE ROOF OR USING WHATEVER METHOD YOU USE TO GAIN ACCESS TO THE ROOF. AVIATOR AND FOREST RIVER RECOMMEND THAT ONLY YOUR DEALER PERFORM ANY ROOF RELATED INSPECTIONS OR REPAIRS. SHOULD YOU SUSPECT ANY ROOF ISSUES CONTACT YOUR AVIATOR SELLING DEALER IMMEDIATELY.

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

Notes:

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## Section 7

# CARE AND MAINTENANCE

### LP Gas System

[Return to Index](#)

To ensure proper operation, have the LP gas system checked frequently for leaks and road damage. The entire system including regulator pressure, should be checked annually or sooner, if you suspect a problem. Have the system checked by a qualified LP gas service technician using proper equipment. The method of checking the system for leaks and LP gas safety precautions can be found in Section 4 of this manual.

**NOTE: LINE PRESSURE FOR LP GAS APPLIANCES SHOULD BE CHECKED AT LEAST EVERY SIX MONTHS. MOST LP GAS SUPPLIERS HAVE EQUIPMENT TO TEST THE LINES. THE CORRECT LINE PRESSURE FOR ALL RV LP GAS APPLIANCES IS 11 INCHES OF WATER COLUMN PRESSURE.**

### Exterior Lights

[Return to Index](#)

Check the operation of exterior lights often. Check clearance, turn signal, brake and back-up lights to be sure they are working correctly. Replace any cracked, broken or missing light covers to avoid moisture infiltration and possible damage to their electrical system.

Notes:

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# Section 7

## CARE AND MAINTENANCE

### Winter Precautions

[Return to Index](#)

• **Winter Precautions Water Systems:**

[Return to Index](#)

In severe cold it is wise to monitor the water temperature in the tank and take steps to drain and winterize if necessary. It is also a good idea, in severe cold, to open lower cabinet doors in the kitchen and bath to allow warm air to circulate around water fixtures. To minimize freezing damage, insulate any drain lines that are exposed to the outside.

• **Winter Precautions Food Storage:**

[Return to Index](#)

If left unheated in your Aviator for a long period of time, canned goods and other foods packed in water should be stored as high as possible since heat rises. Refrigerators can also be used for storage, even when unplugged, as they are well insulated.

• **Winter Precautions Heating:**

[Return to Index](#)

Use ONLY your Aviator furnace for heating as it is properly vented to the outside. NEVER USE THE RANGE FOR HEATING AS FIRE, CARBON MONOXIDE OR ASPHYXIATION COULD RESULT.

• **Winter Precautions Condensation:**

[Return to Index](#)

Moisture can collect on inside surfaces during cold weather when inside humidity is high. While your Aviator is in use, a family can vaporize up to three gallons of water daily through daily living. Consider using a dehumidifier to remove moisture. See [Section 4](#) of this manual for additional tips regarding condensation.

Notes:

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# Section 7

## CARE AND MAINTENANCE

### Winter Storage Tips

[Return to Index](#)

1. Park your Aviator on a level surface.
2. Winterize the chassis.
3. Clean your Aviator thoroughly, inside and out, as previously outlined in this section.
4. Turn off all electrical switches and appliances.
5. Close all shades and curtains. Consider protecting the curtains from sun fade by placing foil or paper between the windows and the screens.
6. Be sure all windows, doors and vents are securely closed. Cover exterior appliance vents to prevent moisture and insects from entering during storage.
7. Check the interior of your Aviator periodically to be sure leaks have not developed or that condensation has not formed, causing damage to interior components. Condensation can most readily be observed as moisture accumulation on windows and mirrors. To reduce the possibility of condensation, air out your Aviator occasionally during storage.
8. Be sure that both the batteries have the proper electrolyte level and that they are fully charged. A discharged battery will freeze and crack the case. In storage, a battery will gradually lose charge after 30-45 days, even when disconnected by use of the battery disconnect switch. We recommend that you check the battery for charge once a month. If the charge is 80% or less, it must be recharged. You may wish to remove the battery and store it in a heated area. However, even when warm, the battery level must be maintained.
9. Be sure the tires are inflated to correct pressure and check periodically.
10. Keep the roof free from snow and ice. Check it periodically and after a heavy snowfall.
11. Winterize the water systems and protect any exterior hoses and lines from freezing. Follow the winterizing procedure outlined in Section 5 of this manual. Also follow all component manufacturers instruction regarding their particular product. (If their procedure differs from this manual, follow the component manufacturers instructions.)

Notes:


## Section 7

# CARE AND MAINTENANCE

### Winter Storage Preparation

[Return to Index](#)

When storing your Aviator for the winter, certain precautions need to be taken to protect your unit. Be sure to talk with your local dealer concerning any special requirements, for storage, in your particular geographic location. The following steps are general and your dealer can help you choose those which are most appropriate for your needs.

Item	Each Trip	Each Month	3 Months	6 Months	Every Year	As Req.	Procedure
Exterior		X					WASH WITH WARM WATER AND MILD DETERGENT.
Fiberglass				X			WAX WITH LIQUID OR PASTE WAX.
Roof				X			INSPECT AND RESEAL AS NEEDED.
and				X			
Roof Components					X		LUBRICATE ROOF VENT MECHANISM WITH LIGHT OIL AND CLEAN COMPLETELY.
Windows		X					CHECK SEALS WHEN WASHING EXTERIOR.
and			X				CHECK SEALS FOR DAMAGE AND REPAIR AS NEEDED.
Doors			X				LUBE DOOR HINGES WITH WD40
					X		LUBE ALL LOCKS & STRIKE PLATES.
Seals and Adhesives		X					INSPECT AND RE-SEAL AS NECESSARY.
LP						X	CHECK FOR LEAKS AND ROAD DAMAGE.
GAS System					X		HAVE QUALIFIED SERVICE CENTER CHECK PRESSURES AND COMPLETE LPG SYSTEM.
Water		X					CHECK HOSES, FITTINGS & CONNECTIONS FOR LEAKS AND WEAR.
And	X						CHECK DRAINAGE SYSTEMS FOR LEAKS AND ROAD DAMAGE.
Drainage						X	SANITIZE SYSTEM.
					X		WINTERIZE SYSTEM DEPENDING ON LOCAL CONDITIONS.

## Section 7 CARE AND MAINTENANCE

### Winter Storage Preparation (Cont'd)

[Return to Index](#)

Item	Each Trip	Each Month	3 Months	6 Months	Every Year	As Req.	Procedure
Electrical System	X						CHECK GFI CIRCUITS.
						X	CHECK AND SERVICE BATTERY/S
Appliances	X						REMOVE FOOD & ICE FROM REFRIGERATOR AFTER EACH TRIP
		X					CHECK FOR OBSTRUCTIONS & DIRT ON EXT. APPLIANCE VENTS
Safety Equipment					X		CLEAN ALL DETECTOR COMPONENTS
	X						TEST ALL DETECTOR COMPONENTS
		X					CHECK FIRE EXTINGUISHER PRESSURE & CONDITION
Carpeting	X						VACUUM AFTER EACH TRIP
						X	CLEAN PER CARPET MANUFACTURERS INSTRUCTIONS CLEAN WITH WOOD POLISH
Panel Surfaces		X					
Chassis and Components						X	FOLLOW CHASSIS LUBERICATION & MAINTENANCE PROCEDURES
Weight and Distribution	X						KEEP WITHIN SPECIFIED LOAD LIMITS
Axles				X			TORQUE MOUNTING BOLTS TO 145-150 FOOT POUNDS
Wheel Bearings					X	X	REPACK WHEEL BEARINGS YEARLY
Brakes				X			CHECK OPERATION AND FOR UNEVEN WEAR

## Section 7

# CARE AND MAINTENANCE

### Formaldehyde from Building Materials

[Return to Index](#)

Certain building products such as particleboard, fiberboard and hardwood plywood are manufactured with an adhesive containing urea-formaldehyde. These products emit a small quantity of formaldehyde into the air.

Other products containing formaldehyde or urea-formaldehyde resins are some carpets, draperies, upholstery, fabrics, deodorizers, cosmetics and permanent press fabrics. Formaldehyde is also a by-product of combustion and is produced by cigarettes and gas appliances.

The concentration of formaldehyde in the indoor air depends upon the quantity and emission rates of all emission rates of all emitting products in the structure compared to the volume of indoor air and the fresh air ventilation rate. As with other indoor pollutants, ventilation should reduce formaldehyde levels.

#### **▲WARNING**

**FORMALDEHYDE LEVELS IN THE INDOOR AIR CAN CAUSE TEMPORARY EYE AND RESPIRATORY IRRITATION AND MAY AGGRAVATE RESPIRATORY CONDITIONS OR ALLERGIES.**

### WaterPur™

[Return to Index](#)



*A Mark of Product Quality*

To help you choose quality water treatment products, the Water Quality Association developed its' Gold Seal program. WQA tests water treatment equipment and awards the Gold Seal only to those systems that meet or exceed industry standards for performance, capacity and integrity in removing a variety of drinking water contaminants. **WQA Gold Seal** testing and validation is available for drinking water treatment units. It provides the following assurances:

1. **Performance Testing** - measures contaminant reduction capabilities over the life and capacity of the unit.
2. **Structural Integrity** - measures durability under pressurization beyond the usual demands of home water systems, simulating 10 years of normal use.
3. **Materials Safety** - confirms a product does not add anything harmful to the water being treated.
4. **Literature Review** - verifies clarity and accuracy of product literature sales and advertising copy, installation and maintenance instructions, and product labeling.

**'WARNING' INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

## Section 7

# CARE AND MAINTENANCE

### WaterPur™ (Cont'd)

[Return to Index](#)

Gold Seal labeled products must meet the Water Quality Association's Code of Ethics standards. Only the Water Quality Association can award the Gold Seal, and only products meeting comprehensive industry standards can earn it.



LOOK FOR THE **GOLD SEAL** AND BUY WITH CONFIDENCE. FOR MORE INFORMATION, WRITE:  
WATER QUALITY ASSOCIATION  
4151 NAPERVILLE RD.  
LISLE, IL. 60532-1088  
(A NOT-FOR-PROFIT ORGANIZATION.) VISIT OUR WEBSITE AT: [www.wqa.org](http://www.wqa.org)

### WaterPur™ Operating Instructions

[Return to Index](#)

MODEL CCI-10CLW12

The **WaterPur™** system filters all water going into your RV, not just drinking water, thereby protecting your complete plumbing system from contaminants, providing filtered cold and hot water, and providing filtered water to your bathroom. It also:

- removes over 99% of chlorine, taste and odor
- removes over 99% of turbidity
- removes over 99% of Giardia & Cryptosporidium
- does not channel, fluidize, or bypass like a granular activated carbon filter
- does not permit the passage of cultivated bacteria like a granular activated carbon filter
- does not contain silver nitrate or any other pesticide or harmful chemical
- is constructed from all NSF listed materials
- is rated for 10,000 gallons or one year
- has a flow rate of 2.5 gallons per minute

The **WaterPur™** cartridge is made of activated carbon particles fused into a uniform block, providing micron filtration. Service life is greatly extended by a 15 micron polypropylene prefiltration medium and a layer of 5 micron polypropylene melt blown intermediate filtration medium.

Notes:

## Section 7

# CARE AND MAINTENANCE

### **WaterPur™ Operating Instructions (Cont'd)**

[Return to Index](#)

The replaceable cartridge, which is the heart of the **WaterPur™** system, has been tested to meet the material requirements of NSF Standards 42, 53 and 58. It has been tested to meet the performance requirements of NSF Standard 42 for Class 1 Chlorine reduction and Standard 53 for Class 1 Turbidity and Cyst reduction.

### **WaterPur™ Sanitize**

[Return to Index](#)

Prior to using your Aviator's fresh water system with the **WaterPur™** CCI-10CLW12 installed, the entire system should be sanitized and rinsed. When sanitizing, make sure the **WaterPur™** filter cartridge is not in the filter housing.

- Place one ounce of household bleach (such as Clorox) in your Aviator's fresh water tank, for each ten gallons of capacity. (If your tank holds 30 gallons, put 3 ounces of bleach in the tank.) Fill your Aviator's fresh water tank with potable water.
- **SLOWLY** open the faucets in your Aviator and allow water to flow until you smell chlorine at each faucet, then close the faucet. **DO NOT PERMIT THE CHLORINATED WATER TO SPLASH ONTO CLOTHES, WALLS, COUNTERS OR FLOORS.** Allow the system to sit overnight.
- Drain the fresh water tank and fill with potable water. Run the faucets until the chlorine smell is gone. Repeat as necessary.
- Shut off the fresh water pump or disconnect from your city water supply. Open the kitchen faucets to remove pressure. Place a shallow pan beneath the **WaterPur™** filter.
- Remove the sump from the **WaterPur™** housing by turning counterclockwise being careful not to spill the water in the housing. Empty the water from the housing.
- Unwrap the **WaterPur™** cartridge and place it in the housing. (Either side up). Make certain that the 'O' ring is properly seated, and reattach the housing to the filter cap by turning clockwise. Tighten the housing firmly by hand. **DO NOT** over tighten.
- Close the kitchen faucets and either turn on your fresh water pump or your city water supply. Check for leaks at the filter housing. Tighten if necessary. Open the kitchen faucet and allow water to flow for ten minutes. Your **WaterPur™** system is now ready to deliver fresh tasting filtered water to all of the faucets in your Aviator!

### **WaterPur™ Winterize**

[Return to Index](#)

To winterize your Aviator's water system, remove the **WaterPur™** cartridge from the housing and follow manufacturer's directions for dewinterizing, then replace the **WaterPur™** cartridge. The cartridge should be replaced every 12 months or 10,000 gallons, whichever comes first.

An easy way to remember to do this is to replace the cartridge when you dewinterize in the spring. Replace the **WaterPur™** cartridge only with a genuine **WaterPur™** cartridge available from your Forest River Inc. dealer.



## Section 7

# CARE AND MAINTENANCE

### **WaterPur™ Operating Instructions (Cont'd)**

[Return to Index](#)

#### **WaterPur™ Operational Note:**

[Return to Index](#)

The **WaterPur™** cartridge is not to be autoclaved or steam sterilized. Use the **WaterPur™** cartridge with microbiologically safe water. Activated carbon filters are not designed to kill or remove bacterial or viruses. Actual results obtained will vary with various combinations of organic contaminants, changes in pH or other conditions encountered in actual use. All information presented is based on data believed to be reliable. It is offered for evaluation and verification, but is not to be considered a warranty of any kind. The contaminants removed by the **WaterPur™** cartridge are not necessarily in your water. Some jurisdictions tax, regulate, or restrict devices making health related or aesthetic claims. **WaterPur™** makes no claims in those jurisdictions.

#### **WaterPur™ Warranty**

[Return to Index](#)

The **WaterPur™** system is warranted against defects in material and workmanship for a period of one year from date of purchase. Warranty does not cover damage due to abuse, neglect, improper installation, exposure to pressure or temperature above or below stated operating parameters, or improper winterizing.

The Seller makes no other warranties of any kind, expressed or implied, concerning this product, including warranties of merchantability or fitness for a particular purpose, except that this product should be capable of performing as described in this manual.

Seller's obligation for this product's performance below specifications shall be limited solely to the replacement of product proven defective, at the Seller's sole discretion. Determination of suitability of product for uses contemplated by Buyer, shall be the sole responsibility of Buyer. Use of this product constitutes Buyer's acceptance of this limited liability.

#### **WaterPur™ Description**

[Return to Index](#)

The **WaterPur™** Model CCI-10CLW12 is a Household Class, Group 2, water filtration device designed for installation in recreational vehicles. It has a micron rating of 1 micron, a capacity of 10,000 gallons of chlorine removal at 2.5 gallons per minute. This capacity was determined under WQA Standard S-200 Test Conditions, and may vary with local water characteristics.

The cartridge consists of activated carbon particles fused into a uniform block with enhanced absorptive capacity and efficiency. The cartridge flows in a radial outside-to-inside direction providing increased dirt capacity and low pressure drop (8 psid @ 1 gpm service flow, maximum differential pressure of 100 psid and a collapse pressure of 200 psid).

Unlike granular activated carbon (GAC) filters, the extruded carbon will not channel or bypass, due to the extreme uniformity of its extruded activated carbon core. Service life is greatly extended by a layer of 15 micron polypropylene spun-bonded prefiltration medium and a second layer of 5 micron polypropylene melt blown filter medium.

Maximum cartridge operating pressure is 125 psid and maximum operating temperature is 125O F. Minimum operating temperature is 400 F. The housing and cartridge are constructed of 100% NSF listed materials.

**Section 7  
CARE AND MAINTENANCE**

**Aviator Maintenance/Repair Schedule Records** [Return to Index](#)

Maintenance / Repair Schedule	Service Center Name / Address

Section 7  
**CARE AND MAINTENANCE**

**Aviator Maintenance/Repair Schedule Records**    [Return to Index](#)

Maintenance / Repair Schedule	Service Center Name / Address

**Section 7**  
**CARE AND MAINTENANCE**

**Aviator Maintenance/Repair Schedule Records**    [Return to Index](#)

Maintenance / Repair Schedule	Service Center Name / Address

# Section 7

## CARE AND MAINTENANCE

**Aviator Maintenance/Repair Schedule Records**     [Return to Index](#)

Maintenance / Repair Schedule	Service Center Name / Address



**Section 7  
CARE AND MAINTENANCE**

**Aviator Maintenance/Service Date and Procedure Records**    [Return to Index](#)

<b>Maintenance/Service Date and Procedure</b>	<b>Service Center Name, Address, and Telephone Number</b>	<b>Travel Journal</b>

**Section 7**  
**CARE AND MAINTENANCE**

**Aviator Maintenance/Service Date and Procedure Records** [Return to Index](#)

Maintenance/Service Date and Procedure	Service Center Name, Address, and Telephone Number	Travel Journal



<b>Section 7 CARE AND MAINTENANCE</b>
---

**Aviator Maintenance/Service Date and Procedure Records** [Return to Index](#)

Maintenance/Service Date and Procedure	Service Center Name, Address, and Telephone Number	Travel Journal

## Section 7 CARE AND MAINTENANCE

**Aviator Maintenance/Service Date and Procedure Records** [Return to Index](#)

Maintenance/Service Date and Procedure	Service Center Name, Address, and Telephone Number	Travel Journal

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