

# **AIRSTREAM®**

## OWNER'S MANUAL

### 2027



Live Riveted®

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Airstream World Traveler® Owner's Manual

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# AIRSTREAM®

## Section 1 INTRODUCTION

The Owner's Manual for your new Airstream trailer is designed to respond to the most frequent inquiries regarding the operation, function, and care of the many systems that make modern trailering a joy.

Airstream realizes our customers possess varying degrees of expertise in the area of maintaining and repairing the appliances in their trailer. For this reason, the service information found in this manual is directed toward those with average mechanical skills.

We also realize that you may be more familiar with one area than you are with another. Only you know your capabilities and limitations. We want you to use this manual and hope you will find the information contained in it useful. However, should you ever feel that you may be in need of assistance, please consult your Airstream dealer for advice on service that may be required.

A brief explanation of the operation of the appliances such as refrigerator, furnace, water heater, and others, are explained in this manual. However, you will also find the manufacturer's information, supplied in a packet included with this manual, to be more detailed.

All information, illustrations, and specifications contained in this manual are based on the latest product information available at the time of publication approval. If and when new materials and production techniques are developed that can improve the quality of its product, or material substitutions are necessary due to availability, Airstream reserves the right to make such changes.

Optional items may be available on all, or particular models. Additionally, some optional items can only be included during the manufacturing phase and cannot later be added to the trailer.

The inclusion of optional items information in this manual does not imply or suggest the availability, application, suitability, or inclusion for any specific unit.

Airstream uses the  safety alert symbol and signal words **Danger**, **Warning**, and **Caution** to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death. The following are examples of each type of signal word, safety message, and information message found throughout this manual.

## **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.

## **CAUTION**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

## **NOTICE**

Indicates a potential situation which, if not avoided, may result in damage to your Airstream. Addresses practices not related to personal injury.

## **NOTE**

Provides noteworthy information and tips about your Airstream.

# AIRSTREAM®

## Section 2 SAFETY

|                                                                          |     |                                                                    |      |
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## Safety Overview

Your safety and the safety of those around you depend on using good judgment. Carelessness with fire, smoking, flammable liquids, or other hazards greatly increases the risk of accidents. This section highlights the most critical safety considerations, along with additional tips found throughout the manual. Please review them carefully, along with the component and appliance manuals provided in your owner's packet, before operating your Airstream.

### Transporting of Passengers

The transporting of people in the trailer puts their lives at risk and may be illegal. The trailer does not have seat belts, therefore, it is not designed to carry passengers.

#### **⚠ WARNING**

**Never transport passengers inside a trailer. Towing a trailer with passengers inside is unsafe and could result in death or serious injury.**

### Fire and Carbon Monoxide Safety

Familiarize yourself and all other occupants with the alarms designed to alert you to dangerous situations. Alarms require periodic maintenance and batteries. Your safety depends on these devices functioning properly. Never ignore alarms. For more information, [see Smoke, LP Gas, and Carbon Monoxide Alarms \(Detectors\) on page 2-6](#).

Familiarize yourself and all other occupants with the use of the provided fire extinguisher and emergency exits, discussed in this section.

Portable fuel burning equipment, including wood and charcoal grills and stoves, must never be used inside your Airstream. Keep flammable liquids and materials out of your Airstream. For more information, [see Fire and Carbon Monoxide Hazards on page 2-4](#)

### LP Gas Appliance Safety

Certain appliances operate using LP gas, which is stored under high pressure, is flammable and can be explosive. Improper use can cause fire, explosion, or both. Follow all instructions and warnings in this manual and in the appliance manufacturer's manuals provided in your owner's packet. For more information see, [see Appliances on page 5-17](#) and , [see LP Gas System on page 6-8](#).

## Electrical Appliance and Outlet Safety

Improper handling of electrical components can be fatal. Do not touch or use electrical components or appliances with bare feet, while hands or feet are wet, or while standing in water or on damp ground; [see Electrical System Overview on page 5-8](#).

### Towing and Weight Distribution

Weight distribution is an important factor when loading your travel trailer. A recreational vehicle with the cargo distributed properly will result in efficient, trouble-free towing; [see Loading on page 7-3](#).

### Controlling Sway

Sway or fishtailing is the sideways action of a trailer caused by external forces. Excessive sway of your travel trailer can lead to the rollover of the trailer and tow vehicle, resulting in serious injury or death; [see Controlling Sway or Fishtailing on page 7-7](#).

### Lug Nut Torquing

Ensuring trailer wheel lug nuts are tightened to the correct torque value using the proper procedure and sequence is critical for safe operation. Improper torque is a leading cause of lug nuts loosening in service. Loose lug nuts can quickly result in wheel separation, creating a serious safety hazard; [see Lug Nut Torquing on page 8-6](#).

#### **⚠ WARNING**

**Use a torque wrench to tighten lug nuts. Tightening by hand or with an impact wrench is not recommended. For lug nut torque values, [see Specifications on page 4-3](#).**

### Tire Safety

Properly maintained tow-vehicle and trailer tires are essential to the safe operation of the vehicle-trailer combination. Tire condition and inflation affect steering, braking performance, traction, load-carrying capacity, and overall stability; [see Tire Care on page 8-4](#). Also, be sure to read the *Tire Safety Manual Addendum* included with your owner's packet and refer to your tow-vehicle's manual for tire safety information.

### Mold Safety

Mold and mold spores are present in both indoor and outdoor environments. If left unchecked, mold can cause health problems such as allergic reactions, respiratory symptoms, asthma flare-ups, and, in some cases, infections or more severe reactions in people with asthma or weakened immune systems; [see Inhibiting Mold Growth on page 3-9](#).

## Fire Extinguisher



The fire extinguisher should be checked regularly to ensure it is fully charged and in good condition. Read and follow the instructions on the extinguisher carefully. Make sure all occupants know how to release the extinguisher from its storage bracket and how to properly operate it. If the fire extinguisher is used, it must be replaced to ensure it is ready in the event of an emergency.

Your local fire department may provide demonstrations, answer questions, and help confirm that your extinguisher is in proper working order.

### **⚠ WARNING**

**Fire extinguishers have a limited service life and may deteriorate over time. Check the manufacturer's expiration or manufacture date, and replace the extinguisher according to the manufacturer's recommendations. Inspect the extinguisher regularly — including the pressure gauge (if equipped) — and replace it immediately if it has been discharged (even partially) or shows visible damage.**

## Emergency Exits

Your Airstream has one or more escape windows, each identified by its red release handles. Lift both latches on the window to release it, then push out on the glass to swing it clear.

Ensure that you and everyone traveling with you can operate the main door and emergency exit windows quickly, even in the dark. Plan and practice emergency exits at each campsite — a few minutes of rehearsal can make a critical difference in an actual emergency.

### **⚠ DANGER**

**At each campsite, make sure you have not parked in such a manner as to block the operation of the door or escape avenues by being too close to trees, fences, or other impediments. Scenic views are one reason for traveling, but do not park so that a beautiful lake or steep cliff is immediately outside your doors. Do not block access to the doors from the inside or outside of the trailer.**

### **⚠ WARNING**

**The window operation should be checked before each trip and the latches lubricated with WD-40 or an equivalent lubricant every six months.**

## Fire and Carbon Monoxide Hazards

### **⚠ DANGER**

Portable fuel burning equipment, including wood and charcoal grills and stoves, shall not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle may cause fires or asphyxiation.

### **⚠ DANGER**

DO NOT use cooking appliances or portable gas heaters for comfort heating. Before operating provided equipment, open overhead vents or turn on exhaust fans and open a window.

### **⚠ DANGER**

Do not smoke inside the trailer. Keep matches out of reach of small children. Do not bring flammable liquids inside the RV or clean with flammable materials. Keep flammable materials away from open flames. We have all heard these warnings many times, but they are still among the leading causes of fires.

Carbon monoxide (CO) is a highly poisonous gas produced when fuels burn. It is invisible, odorless, and undetectable by human senses. CO can become a serious hazard in tightly sealed trailers with added insulation, sealed windows, and other weatherproofing that can trap gases inside.

### **⚠ DANGER**

**Carbon Monoxide is poisonous and can cause confusion, unconsciousness, and death. Follow all instructions, cautions, and warnings in this section.**

Carbon monoxide can come from many fuel sources, including but not limited to: wood, coal, charcoal, oil, natural gas, gasoline, diesel fuel, kerosene, and propane. LP gas appliances and grills are common sources of carbon monoxide. Your tow vehicle's engine will expel exhaust gases, including carbon monoxide, through the exhaust system. If any of these are not properly maintained, ventilated, or are malfunctioning, CO levels can rise quickly.

Under normal conditions, the small amount of CO that may drift in from outside or from beneath a vehicle is not dangerous in a properly ventilated space, provided you take precautions when parking.

## Symptoms of Carbon Monoxide Poisoning

- **Mild Exposure** - Slight headache, nausea, vomiting, fatigue (flu-like symptoms).
- **Medium Exposure** - Throbbing headache, drowsiness, confusion, fast heart rate.
- **Extreme Exposure** - Convulsions, unconsciousness, heart and lung failure. Exposure to CO can cause brain damage and/or death.

### **⚠ DANGER**

Many causes of reported **CARBON MONOXIDE POISONING** indicate that while victims are aware that they are not well, they become so disoriented that they are unable to save themselves by either exiting the area or calling for assistance. Young children and pets may be the first to be affected.

## Conditions That Can Create Dangerous Carbon Monoxide Levels

1. Excessive spillage or reverse venting of fuel-burning engines, generators, and appliances can occur under certain outdoor conditions, such as:
  - Wind direction and/or velocity, including high gusts of wind.
  - Heavy air in the vent pipes (cold/humid air with extended periods between cycles).
  - Negative pressure differential resulting from use of exhaust fans.
  - Simultaneous operation of several fuel-burning appliances competing for limited internal air.
  - Exhaust connections vibrating loose.
  - Obstructions in or unconventional vent-pipe designs which can amplify the above situations.
2. Extended use of un-vented fuel burning devices.
3. Running the vehicle's engine or fuel-burning appliances in enclosed or confined spaces.
4. Temperature increase that can trap exhaust gases near the ground.

### **⚠ DANGER**

**NEVER ignore any alarm. Failure to respond can result in injury or death. Any alarm silence features are for your convenience only and will not correct a problem. Always check your trailer for a potential problem after any alarm. Failure to do so can result in injury or death.**

### Basic Rules For LPG Safety

A warning label is displayed in the cooking area reminding you to provide an adequate supply of fresh air for combustion. The amount of oxygen supply in a trailer is limited due to its compact design. When using the cooking appliances, proper ventilation will prevent dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.

#### **DANGER**

**A warning label has been located near the LPG container. This label reads: DO NOT FILL CONTAINER(S) TO MORE THAN 80 PERCENT OF CAPACITY. Overfilling the LPG 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.**

#### **DANGER**

**DO NOT store LP containers within the trailer or vehicle. LP containers are equipped with safety devices that vent gas should the pressure become excessive.**

#### **DANGER**

**Do not bring or store LPG tanks, gasoline, or other flammable liquids inside the vehicle because a fire or explosion may result.**

Twice a year, or after a long storage period, we suggest you take your trailer in for a checkup and cleaning of the gas-operated appliances.

### If You Smell Gas

1. Extinguish any open flames and all smoking materials.
2. Do not touch electrical switches.
3. Shut off the gas supply at the tank valve(s) or gas supply connection.
4. Open doors and other ventilating openings.
5. Leave the area until odor clears.
6. Have the gas system checked and leakage source corrected before using again.

## Smoke, LP Gas, and Carbon Monoxide Alarms (Detectors)

Your Airstream is equipped with a smoke alarm, a liquid propane gas (LP Gas or LPG) alarm, and a carbon monoxide alarm. Depending on your Airstream model and date of manufacture, these may be separate devices or combined into a one or more devices that are multifunctional.

Refer to the instructions provided in your owner's packet for operation, testing, battery replacement, troubleshooting, and maintenance requirements for these safety devices.

### **⚠ WARNING**

**For the safety of all occupants, carefully read the manuals for the smoke and LP gas/carbon monoxide alarms included in your owner's packet. These manuals provide critical safety information and troubleshooting guidance, as well as instructions for testing, maintenance, and replacement—including service life and end-of-life indications—that must be followed to ensure the alarms function properly and alert you to dangerous situations.**

### **⚠ WARNING**

**If any alarm sounds, exit immediately and call the Fire Department. In the event of a carbon monoxide alarm, exit immediately and move everyone to a fresh-air location. Do not remove batteries.**

## Smoke Alarm



If instructions were not included in your owner's packet, contact your Airstream dealership, Airstream Customer Relations by email at [support@airstream.com](mailto:support@airstream.com) or phone at (937) 596-6111, or scan the QR code above to visit <https://www.firstalert.com> and navigate to product support to obtain a copy.

### **Expiration and Replacement**

All alarms have a limited service life, after which they may no longer function reliably. The manufacturer specifies this lifespan in the device manual. However, Airstream recommends replacing alarms every five years due to the unique environment and conditions these devices are exposed to in an RV.

### **⚠ WARNING**

**Alarms have a limited life. Replace alarms immediately if they are not operating properly. You should always replace an alarm after 5 years from the date of purchase. Write the purchase date on the space provided on the back of the unit.**

**Testing**

Alarms should be tested at regular intervals: after the trailer has been in storage, before each trip, and at least once per week during use. Refer to the manufacturer's instructions to properly perform these tests.

**⚠ WARNING**

**Test alarms after the trailer has been in storage, before each trip, and at least once a week while in use. If the alarm ever fails to test correctly, have it replaced immediately. If the alarm is not working properly, it cannot alert you to a problem. Failure to perform the test procedure can result in death or serious injury.**

**Battery Replacement**

Batteries in alarms should be replaced once a year. Always use the exact brand and type of battery specified in the alarm manufacturer's instructions. Do not use rechargeable batteries.

Do not wait for the alarm to chirp before replacing the battery. If either alarm is chirping, replace its battery immediately.

The battery door will resist closing until batteries are installed. This warns you that the unit will not operate without batteries.

**⚠ WARNING**

**Alarms are typically shipped with batteries in place and deactivated. Ask your dealer to activate the batteries, or, activate them immediately upon delivery. Failure to follow this warning will remove your protection.**

**Maintenance and Troubleshooting**

Alarms should periodically be cleaned to prevent the buildup of contaminants that can cause false alerts. Refer to the manufacturer's instructions for properly cleaning and caring for alarms. If an alarm becomes contaminated by excessive dust or debris, causing unwanted alarms, replace the unit immediately.

Each manufacturer's manual includes sections on troubleshooting LED light flashes (codes), alarm chirps, and recurring alarms. If you notice anything out of the ordinary, refer to the specific manual in your owner's packet to determine the type and meaning of indicators.

## Liquid Propane Gas/Carbon Monoxide Alarm



If instructions were not included in your owner's packet, contact your Airstream dealership, Airstream Customer Relations by email at [support@airstream.com](mailto:support@airstream.com) or phone at (937) 596-6111, or scan the QR code above to visit <https://rvsafealarm.com> and navigate to product support to obtain a copy.

This detector has a five-year life; see end-of-life notification in the detector's manual. Please read the entire detector manual before operating the unit.

### **⚠ WARNING**

**Activation of your Carbon Monoxide alarm's audible horn indicates the presence of Carbon Monoxide that can kill you. Leave the area immediately!**

### **⚠ WARNING**

**Failure to replace this product by the "REPLACE BY DATE" printed on the alarm may result in death by Carbon Monoxide poisoning. Replace By Date is five (5) years from the date of manufacture.**

LPG is a mixture of gases produced and sold commercially as a fuel for heating and cooking appliances. LPG is highly flammable and, as a result, can be explosive if ignited under certain circumstances. LPG is heavier than air and, if confined in a closed space, will accumulate close to the floor.

The LPG/CO detector is designed to alarm when propane gas exceeds 10% of the lower-explosive-limit for more than 30 seconds or if CO gas reaches unsafe levels. When propane gas is detected the horn will sound with constant beeps and the red LED will be on. If CO gas is detected the horn will sound with 4 rapid chirps followed by a 4 second pause and the red LED will flash rapidly.

Your LPG/CO detector is wired directly to your trailer battery and incorporates a 1-amp, in-line fuse. It has no internal battery backup. In normal stand-by mode, the LED indicator will be green.

## Low Voltage

The operating voltage for the detector is 12 VDC. The actual voltage supplied to the detector in a recreational vehicle may drop below the minimum 8 VDC. The detector provides the user with a low voltage warning before reaching that level and will provide additional distinct, clear warnings and alarms after the 8 VDC level is reached. However, if available power supplied to the unit is below the operating voltage of 8 VDC, the detector will not detect gas or provide protection against dangerous levels of LPG.

### **⚠ WARNING**

**If the low voltage warning sounds, the detector will need to be reset by disconnecting the battery, before normal operation will occur.**

## Detector Test

If the Silence/Test button is pressed while in normal operation, the alarm will perform a self test of the CO sensor, propane sensor and battery voltage. It is recommended to perform a self test weekly, after power up from storage, and before each trip. If the self test passes, the alarm will perform 2 cycles of the CO horn pattern (4 rapid chirps followed by a 4 second pause), followed by 2 cycles of the propane horn pattern (constantly beeping).

### **⚠ WARNING**

**Activation of this detector indicates the possible presence of LPG, which can cause an explosion and/or fire, causing serious injury or death. This normally indicates a leak in the LPG installation or an LPG appliance. Extinguish all open flames, open your windows and door, and evacuate the unit immediately. Do not activate any electrical switch. Turn off the LPG at your gas tank(s). Do not re-enter your trailer until a qualified repair technician has corrected the problem and certified the system as safe.**

### **⚠ WARNING**

**Have a qualified technician check your LPG system annually or if you detect any signs of leaks or malfunctions.**

### **NOTE**

**For additional LPG warnings and safety information, see [Section 5](#) and [Section 6](#).**

**⚠ WARNING**

**Airstream recommends shutting off the gas supply at the LPG tanks before refueling the tow vehicle or entering a refueling station.**

**NOTICE**

**It is not recommended that the detector be disconnected from the battery during periods of storage. There is a small heater on the sensor of the device that burns away impurities in the air during periods of normal use. During periods when power is interrupted, impurities can build up on the sensor. When power is returned to the detector, the detector alarm may activate until the impurities are burned off. This could take a number of hours, during which time the alarm will be constantly on.**

**Smoke Alarm Basic Safety Information**

- Smoke alarms only indicate the presence of smoke that reaches the sensor.
- Smoke alarms are not designed to sense gas, heat or flames.
- Smoke alarms cannot operate without working batteries. Removing the batteries for any reason, or failing to replace the batteries at the end of their service life, removes your protection.
- NEVER ignore any alarm. Failure to respond can result in injury or death.
- Any silence features are for your convenience only and will not correct a problem. Always check for a potential problem after any alarm. Failure to do so can result in injury or death.
- Test alarms once a week. If an alarm ever fails to test correctly, have it replaced immediately! If any alarm is not working properly, it cannot alert you to a problem.

**LP Gas/Carbon Monoxide Alarm Basic Safety Information**

- CO alarms are intended for use in ordinary indoor locations. It is not designed to measure CO levels in compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards. Individuals with medical conditions that may make them more sensitive to carbon monoxide may consider using warning devices

which provide audible and visual signals for carbon monoxide concentrations under 30 ppm. For additional information on carbon monoxide and your medical condition contact your physician.

- CO Alarms are designed to detect carbon monoxide from ANY source of combustion. It is NOT designed to detect smoke, fire, or any other gas.
- CO Alarms will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas.
- CO alarms cannot operate without working batteries. Removing the batteries for any reason, or failing to replace the batteries at the end of their service life, removes your protection.
- NEVER ignore any alarm. Failure to respond can result in injury or death. CO may be present even if nothing is seen or smelled.
- Any silence features are for your convenience only and will not correct a problem. Always check for a potential problem after any alarm. Failure to do so can result in injury or death.
- Test alarms once a week. If an alarm ever fails to test correctly, have it replaced immediately! If any alarm is not working properly, it cannot alert you to a problem.
- Ensure that the alarm can be heard by all those who are intended to hear it.
- Do not expose to rain or moisture. Do not knock or drop the alarm. Do not open or tamper with the alarm as this could cause a malfunction.
- Seek medical help if it is suspected that someone is suffering from Carbon Monoxide poisoning.
- Carbon monoxide alarms are not a substitute for the proper servicing of fuel-burning appliances.
- Carbon monoxide alarms are not to be used on an intermittent basis, or as a portable alarm for spillage of combustion products from fuel-burning appliances.
- Room spaces should be well ventilated when household cleaning supplies are used as these may cause a false alarm.

## Chemical Sensitivity and Ventilation

### Chemical Sensitivity

Immediately after purchasing your new recreational vehicle, or after it has been unused for an extended period, you may notice strong odors and experience chemical sensitivity. This is not a defect. Like a new home, many products used in the construction of recreational vehicles, including carpet, linoleum, plywood, insulation, and upholstery, can emit odors as they adjust to their environment.

In addition, formaldehyde, a naturally occurring substance used in building materials and a by-product of combustion and other common processes, may also be present inside your Airstream, as it is present in numerous household products such as paints, coatings, and cosmetics.

In the enclosed space of a recreational vehicle, these emissions can sometimes accumulate through a process referred to as off-gassing. Off-gassing may cause irritation of the eyes, nose, and throat, as well as occasional headache, nausea, or asthma-like symptoms. Elderly persons, young children, and anyone with a history of asthma, allergies, or lung problems may be more susceptible.

### Formaldehyde

Formaldehyde is widely used in building materials and household products. It is also a by-product of combustion and other natural processes and may be present inside the trailer. Trace levels of formaldehyde are released from smoking, cooking, and using soaps, detergents (such as carpet shampoos), and many other household products. Some people are very sensitive to formaldehyde, while others may not react to the same levels.

Your Airstream uses low formaldehyde-emitting (LFE) wood products, which are standard in the recreational vehicle industry. Formaldehyde is an essential component of the adhesives that bind these wood products. The wood products in your trailer are designed to emit formaldehyde at or below industry guidelines and should not cause symptoms in most individuals.

While LFE wood products typically do not emit formaldehyde at levels that would cause symptoms, it is possible, though unlikely, for symptoms to occur if the trailer is improperly ventilated. Ventilation is essential for many reasons.

### Ventilation

Proper ventilation is critical to reduce exposure to chemicals from off-gassing, including formaldehyde. Emissions naturally decrease over time, but you can further minimize exposure and aid in this natural process by opening windows, doors, and roof vents, and running vent fans or the air conditioner.

Ventilate frequently, especially after purchase or during periods of elevated temperature and humidity, as these conditions accelerate off-gassing. Sealing the vehicle reduces airflow and can increase indoor formaldehyde levels.

Airstream strongly recommends that you ventilate your trailer regularly. If you have any questions about proper ventilation, please contact your dealer or Airstream.

### Do Not Smoke

It is recommended you do not smoke inside your recreational vehicle. In addition to causing damage to your recreational vehicle, tobacco smoke releases formaldehyde and other toxic chemicals.

### Medical Advice

Questions regarding the effects of formaldehyde on your health should be directed to your doctor or local health department.

# AIRSTREAM®

## Section 3 GENERAL INFORMATION

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## General Information

### 2-Year Bumper-to-Bumper and 5-Year Structural Limited Warranties

# AIRSTREAM®

1001 West Pike St., Jackson Center, OH 45334-0629

## 2027 TRAVEL TRAILER

2-YEAR BUMPER-TO-BUMPER AND  
5-YEAR STRUCTURAL LIMITED WARRANTIES

Delivery Date: \_\_\_\_\_

Airstream Serial Number: \_\_\_\_\_

PURCHASED BY: \_\_\_\_\_

PURCHASED FROM: \_\_\_\_\_

Name: \_\_\_\_\_

Dealer Name: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_

City/State: \_\_\_\_\_ Zip: \_\_\_\_\_

City/State: \_\_\_\_\_ Zip: \_\_\_\_\_

**THIS LIMITED WARRANTY COVERS:** The warranty coverages on your new travel trailer are summarized below. Airstream's Limited Warranty includes two (2) separate warranty coverages. Please read the warranty information that follows for complete details.

- **Bumper-to-Bumper Warranty Coverage** - The complete travel trailer is covered for 24 months, except for other coverages listed in this Section and those items listed under "What is Not Covered" later in this Limited Warranty.
- **Structural Warranty Coverage** - The main steel chassis frame, outriggers, cross members, laminated subfloor, aluminum sidewalls, skeletal framing, front and rear caps and roof (collectively, the "Structural Components") are covered for 60 months, except for those items listed under "What is Not Covered" later in this Limited Warranty.

**THIS LIMITED WARRANTY COVERS:** (i) The first retail owner and any subsequent owners (ii) ONLY those portions of a NEW travel trailer not excluded under the section "What is Not Covered," when sold by an authorized dealership and used for its intended purpose of recreational travel and camping; and, (iii) ONLY defects in workmanship performed and/or materials used to assemble those portions of your travel trailer not excluded under the section "What is Not Covered." "Defect" means the failure of the workmanship performed and/or materials used to conform with the design and manufacturing specification and tolerances of Airstream. This Limited Warranty is transferable, and the subsequent owner's warranty coverage period shall be the unexpired balance of the original warranty coverage period. A completed copy of the Warranty Transfer Form must be submitted to Airstream at the time of resale.

When you request and accept the performance of warranty repairs under the terms of this Limited Warranty, you are accepting all terms of this Limited Warranty, including by way of example, warranty limitations and disclaimers, the forum selection clause and the clause reducing the time period when suit must be filed for breach.

If any term or condition in this Limited Warranty conflicts with your state's Uniform Commercial Code ("UCC") as interpreted by courts within your state, the provisions of your state's UCC are varied as allowed for by USS 1-302.

**COVERAGE ENDS:** Bumper-to-Bumper warranty coverage ends 24 months after the first retail owner takes delivery of the travel trailer from an authorized dealership. Structural warranty coverage ends 60 months after the first retail owner takes delivery of the travel trailer from an authorized dealership. Delivery occurs when the retail owner takes physical possession of the travel trailer or has alterations done to it, whichever occurs first. ANY ACTION FOR BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTIES RELATING TO, OR ARISING FROM, THE BUMPER-TO-BUMPER WARRANTY MUST BE COMMENCED NOT MORE THAN 25 MONTHS AFTER DATE OF DELIVERY. ANY ACTION FOR BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTIES RELATING TO, OR ARISING FROM, THE STRUCTURAL WARRANTY MUST BE COMMENCED NOT MORE THAN 61 MONTHS AFTER DATE OF DELIVERY. Some states do not allow the reduction of the time when a breach of warranty claim must be commenced, so the reduction in time when a breach of warranty claim must be commenced may not apply to you.

**LIMITATION OF IMPLIED WARRANTIES:** IMPLIED WARRANTIES ARISING UNDER APPLICABLE LAW, IF ANY, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY LIMITED IN DURATION TO THE TERM OF THIS WARRANTY AND ARE LIMITED IN SCOPE OF COVERAGE TO THOSE PORTIONS OF THE TRAVEL TRAILER COVERED BY THIS LIMITED WARRANTY. THERE ARE NO EXPRESS WARRANTIES OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY ON THOSE PORTIONS OF THE TRAVEL TRAILER EXCLUDED FROM COVERAGE. There is no warranty of any nature made by Airstream beyond that contained in this Limited Warranty. No person has authority to enlarge, amend, or modify this Limited Warranty. The dealer is NOT Airstream's agent. Airstream is not responsible for any undertaking, representation, or warranty made by any dealer or others beyond those expressly set forth within this Limited Warranty. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

**DISCLAIMER OF INCIDENTAL AND CONSEQUENTIAL DAMAGES:** Airstream disclaims any and all incidental and consequential damages, including but not limited to expenses such as transportation to and from dealerships and Airstream repair facilities, loss of time, loss of pay, loss of use, inconvenience, commercial loss (including but not limited to lost profits), towing charges, bus fares, vehicle rental, service call charges, gasoline expenses, incidental charges such as telephone calls and facsimile transmissions, and expenses for lodging and moisture damage such as mold and mildew as well as rust and corrosion. This disclaimer is independent of any failure of the essential purpose of any warranties provided with the travel trailer and shall survive any determination that a warranty failed of its essential purpose. 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.

**REPAIR REMEDY:** Airstream's sole and exclusive obligation is to repair any covered defects discovered within the warranty coverage period if: (1) within 10 days of your discovery of a defect, you notify Airstream OR an authorized dealership of the defect; AND (2) you deliver your travel trailer to Airstream OR an authorized dealership at your cost and expense.

**BACK-UP REMEDY:** If the primary repair remedy fails to successfully cure any defect after a reasonable number of repair attempts, your sole and exclusive remedy shall be to have Airstream pay an independent service shop of your choice to perform repairs to the defect, which requires the exercise of good faith. If you select an independent service shop, you must notify Airstream to allow it to work directly with the service shop to have repairs performed. The repair remedy and the back-up remedy MUST both be exhausted AND these remedies must fail to fulfill their essential purpose before you can seek other legal or equitable remedies for breach of this express warranty or for breach of any implied warranty. THIS LIMITED WARRANTY IS NOT A WARRANTY THAT PROMISES OR EXTENDS TO FUTURE PERFORMANCE BECAUSE THE WARRANTY DOES NOT MAKE A REPRESENTATION ON HOW YOUR TRAVEL TRAILER WILL PERFORM IN THE FUTURE BUT INSTEAD REPRESENTS ONLY WHAT THE REMEDY WILL BE IF A DEFECT EXISTS.

Unless prohibited by state law, repairs will not extend the time when you must commence a breach of warranty claim and shall not extend the warranty coverage period. Any performance of repairs after the warranty coverage ends OR any performance of repairs to those portions of your travel trailer excluded from coverage shall be considered "good will" repairs. Warranty repairs should be expected. Airstream may use new and/or remanufactured parts and/or components of substantially equal quality to complete a repair. Damage to interior or exterior surfaces, trim, upholstery, and other appearance items may occur at the factory during assembly, during delivery of the travel trailer to your selling dealer or on the selling dealer's lot. Normally, any damage is detected and corrected at the factory or by the selling dealer during the inspection process. If you discover any damage when you take delivery of your travel trailer, you MUST notify your dealer OR Airstream within 10 days of the date of purchase to have damage repaired at no cost to you. Minor adjustments, such as adjustments to the interior or exterior doors, drawers, and latches will be performed at no cost to you by your selling dealer during the first 90 days of warranty coverage; thereafter, such adjustments are your exclusive responsibility as normal maintenance.

#### WHAT IS NOT COVERED

1. Accessories and equipment that are working as designed, but which you are unhappy because of the design;
2. Structural elements, components or other similar items of the travel trailer that are not specifically included in the definition of Structural Components set forth above in this Limited Warranty.
3. Normal deterioration due to wear or exposure, including but not limited to floor coverings, rust, corrosion, oxidation, and cosmetic blemishes. In addition, this Limited Warranty does not apply to consumable parts that are designed to diminish over time, unless failure has occurred due to a defect in materials or workmanship;
4. Normal maintenance and service items, including but not limited to batteries, tires, axles, axle alignment, glass breakage, fuses, bulbs, lubricants, sealants and seals, door adjustments, awning tension. In addition, this Limited Warranty does not apply to consumable parts that are designed to diminish over time, unless failure has occurred due to a defect in materials or workmanship;
5. After-market equipment or accessories installed on the travel trailer after completion of manufacture by Airstream, or any defects or damage caused by such items;
6. Travel trailers not purchased through an authorized dealer of Airstream and travel trailers purchased directly or indirectly through auction, salvage, repossession, or other non-customary sale means.
7. Any travel trailer used other than for temporary recreation purposes, including, but not limited to, use of the travel trailer for residential, rental, business and commercial purposes, or any travel trailer purchased by, registered by, or titled in the name of a business association (such as any LLC, corporation, or partnership). If the travel trailer owner or user files a tax form claiming a business or commercial tax benefit or income related to the travel trailer, it shall be irrefutable that the travel trailer has been used for rental, commercial or business purposes.
8. Defects or damage caused by, in whole or in part, or in any way related to: Accidents, misuse (including off-road use), or negligence; Failure to comply with the instructions set forth in any owner's manual provided with the travel trailer; Alteration or modification of the travel trailer except such alterations or modifications approved in writing by Airstream; Acts of God or other environmental conditions, such as lightning, hail, salt causing rust, or other chemicals in the atmosphere; De-icing agents or other chemicals applied to the travel trailer; Failure to properly maintain or service the travel trailer, including but not limited to the maintenance of lubricants, sealants, and seals; Condensation and the results of condensation including water damage and the growth of mold or mildew (mold and mildew are natural growths given certain environmental conditions and are not covered by the terms of this Limited Warranty); The addition of weight to the travel trailer that causes the total weight to exceed applicable weight ratings, or addition of weight causing improper distribution of the weight of the travel trailer; Failure to seek and obtain repairs in a timely manner; Failure to use reasonable efforts to mitigate damage caused by defects; Failure to properly ventilate the travel trailer; Improper electric power supply or improper travel trailer hookup to other facilities; Acts or omissions of any person or entity other than Airstream.
9. Hardware or software of a third-party device that is connected to the travel trailer or its components, even if integrated or delivered with the travel trailer. Airstream is not responsible for the quality or accuracy of any information or service accessed through or from any third-party device or platform. Software distributed by Airstream inside or outside the travel trailer (including, but not limited to, system software and or applications) is not covered by this Limited Warranty. Airstream does not warrant that connections to, from or through the travel trailer will be uninterrupted or error-free. Also, the user should back-up their data and information frequently. Airstream is not responsible for any loss or damage to data or information made available in connection with the use of the travel trailer. In addition, this Limited Warranty does not apply to: (a) to damage caused by use with another product or service; (b) to damage caused by a third party device or service (including upgrades and expansions), or (c) to obsolescence or lack of utility due to incompatibility with future versions of external hardware or software, including, but not limited to mobile devices.

# General Information

**OBTAINING WARRANTY SERVICE:** In order to obtain warranty service under this Limited Warranty, the owner must do all of the following:

1. Owner and dealer representative must complete, sign, and return the Customer Performance Checkout within 10 days from delivery of the trailer;
2. Notify Airstream or one of its authorized, independent dealers, of any claimed defect within the warranty period or 10 days thereafter;
3. Provide notification of a defect within 10 days of discovery of that defect; and
4. Promptly return the travel trailer to an authorized Airstream dealer or Airstream for repairs.

If you believe a defect covered by this Limited Warranty still exists after an attempted repair by an authorized Airstream dealer, you must contact Airstream in one of the following manners, and specify:

1. The complete serial number of the travel trailer;
2. The date of original purchase and the date of original delivery;
3. The name of the selling dealer; and servicing dealer, if they are not the same.
4. The nature of the problem and the steps or service which have been performed.

Email: support@airstream.com • Phone: (937) 596-6111

Mail: AIRSTREAM, INC., 428 West Pike Street, P.O. Box 629, Jackson Center, Ohio 45334-0629, Attention: Owner Relations Department

Airstream may direct you to an authorized Airstream dealer or may request that you bring your trailer to the Airstream factory in Jackson Center, Ohio for repairs. Airstream does not control the scheduling of repairs at its authorized Airstream dealers, and repairs at the Airstream factory may not be immediately available. Therefore, you may encounter delays in scheduling repairs and/or completion of repairs. All costs associated with transporting the travel trailer for any warranty service shall be the sole responsibility of the owner.

**EVENTS THAT DISCHARGE AIRSTREAM'S OBLIGATIONS UNDER THIS LIMITED WARRANTY:** Damage caused by collision, fire, theft, vandalism, explosions, overloading in excess of rated capacities, and use of the travel trailer for commercial, business, or rental purposes shall discharge Airstream from any express or implied warranty obligation.

**LEGAL REMEDIES:** EXCLUSIVE JURISDICTION FOR DECIDING LEGAL DISPUTES RELATING TO THE ALLEGED BREACH OF EXPRESS WARRANTY AND BREACH OF IMPLIED WARRANTIES ARISING BY OPERATION OF LAW AS WELL AS THOSE RELATING TO REPRESENTATIONS OF ANY NATURE RESTS IN THE COURTS WITHIN THE STATE OF MANUFACTURE, WHICH IS OHIO. ALSO, THIS WARRANTY SHALL BE INTERPRETED AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF OHIO. ANY AND ALL CLAIMS, CONTROVERSIES, AND CAUSES OF ACTION ARISING OUT OF OR RELATING TO THIS WARRANTY, WHETHER SOUNDING CONTRACT, TORT OR STATUTE, SHALL BE GOVERNED BY THE LAWS OF THE STATE OF OHIO, INCLUDING ITS STATUTE OF LIMITATIONS, WITHOUT GIVING EFFECT TO ANY CONFLICT OF LAW RULE THAT WOULD RESULT IN THE APPLICATION OF THE LAWS OF A DIFFERENT JURISDICTION. IF STATE LAW GIVES YOU ADDITIONAL RIGHTS THAT CONFLICT WITH ANY TERM OF THIS WARRANTY, YOUR STATE LAW APPLIES OVER INCONSISTENT WARRANTY TERMS. For example, if you took delivery of your RV in California, the Song Beverly Warranty Act and Consumers Legal Remedies Act apply because they cannot be waived.

I AGREE THAT ANY AND ALL ACTIONS OF ANY KIND RELATED TO MY TRAVEL TRAILER SHALL BE DECIDED BY A JUDGE RATHER THAN BY A JURY. THIS JURY WAIVER MAY NOT APPLY TO YOU IF APPLICABLE OR PROVINCIAL LAW PROHIBITS A WAIVER OF A JURY TRIAL. For example, if you took delivery in California, your right to a jury cannot be waived.

**CALIFORNIA CONSUMERS:** To comply with California's Song Beverly Consumer Warranty Act pre-litigation notice requirements (described at California Code of Civil Procedure Section 871.24), written notice can be sent to Airstream, Inc., either by email sent to the following email address: support@airstream.com, or by certified or registered mail, return receipt requested, sent to the following address: Airstream, Inc., 428 West Pike Street, P.O. Box 629, Jackson Center, Ohio 45334-0629, Attention: Owner Relations Department.

**CONSUMIDORES DE CALIFORNIA:** Para cumplir con los requisitos de notificación previa al litigio de la Ley de Garantía del Consumidor Song Beverly de California (descritos en la Sección 871.24 del Código de Procedimiento Civil de California), se puede enviar una notificación por escrito a Airstream, Inc., ya sea por correo electrónico a la siguiente dirección de correo electrónico: support@airstream.com, o por correo certificado o registrado, con acuse de recibo, enviado a la siguiente dirección: Airstream, Inc., 428 West Pike Street, P.O. Box 629, Jackson Center, Ohio 45334-0629, Attention: Owner Relations Department.

Before I purchased my travel trailer, I received, read, and agreed to the terms and conditions of this Limited Warranty. I understand and agree that the selling dealership is not an agent for Airstream but is an independent entity. I understand and acknowledge items of the WHAT IS NOT COVERED section of this Limited Warranty. I acknowledge and agree that, before purchasing my travel trailer, I inspected or was given an opportunity to inspect my travel trailer and disclosed in writing to the selling dealership all defects and damage that I discovered. For example, I inspected the underside of the RV for rust and did not discover any unless disclosed in writing to the selling dealership.

Purchaser Signature

Date

Purchaser Signature

Date

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.  
AIRSTREAM, INC • 1001 West Pike Street • Jackson Center, Ohio 45334-0629 • Phone: 937-596-6111 • FAX: 937-596-6539

## Service

### Coach-Net® Roadside Assistance



Every new Airstream comes with a one-year, transferable subscription to Coach-Net which includes a long list of premium services to help quickly solve issues or learn about your Airstream.

To learn more, scan the QR code above, navigate to <https://www.airstream.com/owners/coach-net/>, or call Coach-Net at 855-817-1885. On-call technicians are always ready to answer questions.

### Service Centers

Before leaving the factory, every vital part of the trailer is tested for performance. Each test is signed and certified by an inspector. After the trailer arrives on your dealer's lot, all vital parts and systems are again tested. When you take delivery of your new trailer, you will receive a complete check out.

At that time, a specified list of performance checks on your trailer equipment will be conducted, and any deficiencies you have experienced since taking delivery will be corrected.

Please contact your dealer if your trailer needs service. Major service under your Airstream Limited Warranty is available through our nationwide network of Airstream Dealer Service Centers. To find a dealer, please visit, [www.Airstream.com](http://www.Airstream.com) to use our dealer locator.

Occasionally, dealerships change, or new dealers are added that may not appear on the website immediately. Please note that all centers operate on an appointment basis for the utmost efficiency.

When you require service for your trailer from the Airstream Factory Service Center, or a Certified Dealer Service Center, please contact the service manager for an appointment, and inform them if you are unable to keep the appointment date, or wish to change it. Service may be arranged at the Factory Service Center by contacting the Service Coordinator at:

Airstream Factory Service Center,

428 West Pike Street

P.O. Box 629

Jackson Center, Ohio 45334-0629

Phone: (937) 596-6111 or (877) 596-6111

### Reporting Safety Defects

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 Airstream, Inc.

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 Airstream, Inc.

To contact NHTSA, you may either call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153), go to <http://www.safercar.gov>, or write to:

Administrator,

NHTSA,

1200 New Jersey Avenue, S.E.,

Washington, DC 20590.

You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

# General Information

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## Camping

### Suggested Pre-Travel Check List

#### *Interior*

1. Turn off water pump switch.
2. Check battery water level if applicable.
3. Close windows and vents.
4. Lock all interior cabinet doors.
5. Latch refrigerator door. (Seal containers first)
6. Hold down or stack securely all loose, hard, and sharp objects.
7. Fasten sliding and foldette doors.
8. Drain toilet bowl.
9. Turn off interior lights.
10. Lower wall-mounted table so the top is level with the dinette seats.
11. Lower blinds.
12. Secure and lock the both main door deadbolt and door handle.

#### *Exterior*

1. Disconnect and stow the electrical hookup cord, and the sewer (flush out) and water hookup hoses.
2. Turn off gas at LP tanks.
3. Retract stabilizing jacks.
4. Pull up/retract step
5. Check hitch for proper attachment.
6. Check safety chains and breakaway switch cable.
7. Fully retract hitch jack. Remove and stow jack stand or wood block.
8. Check clearance and stoplights.
9. Check lug nuts.
10. Check tires for correct pressure.
11. Adjust tow vehicle mirrors.
12. Pull forward about 50 ft, test brakes, and check site for forgotten objects and cleanliness.

### *Trailer Equipment and Accessories*

1. Water hose, 5/8 in. high pressure, tasteless, odorless, non-toxic, (2 25-ft. sections)
2. Y connection - water hose
3. Sewer hose with clamp
4. Drain cap with hose drain
5. Holding tank cleaner and deodorizer
6. Power cord adapter, 30-amp capacity
7. 30-ft. electric cord, 30-amp capacity
8. Woodblocks for leveling
9. Wheel chocks
10. Hydraulic jacks
11. Cross-type lug wrench and a torque wrench
12. Quality tire gauge
13. Emergency road warning triangle

### *Motoring Essentials*

1. Display the tow vehicle and trailer registration properly.
2. Carry driver's license.
3. In Canada, bring along a non-residence liability insurance card and your birth certificate.
4. In Mexico, you must have special auto insurance.
5. Carry an extra set of the ignition and truck keys in a separate pocket, or in your wallet.
6. Keep an operating flashlight with fresh batteries in the glove compartment.
7. Pack so that you can reach the tools without completely unpacking.
8. Keep sharp or hard articles securely packed, wherever they may be.
9. Carry a first-aid kit.
10. Carry your pet's dish, food, leash, and health and registration papers.

## Overnight Stop

Airstream owners have parked virtually in every place imaginable, from filling stations to farmlands. In time, you'll develop a knack for spying wonderful little roadside locations by turning off the main highway and exploring.

There are many modern parks, including State, County, and Federal parks with good facilities where you might obtain hookups of electrical, water, and sewer connections. Directories are published which describe in detail these parks and tell what is available in the way of services and hookups.

On overnight or weekend trips, chances are you will not use up the capacity of the sewage holding tank, deplete the water supply, or run down the batteries that supply the 12-volt current.

On a longer trip, when you have stayed where sewer connections and utility hookups were not available, it will be necessary for you to stop from time to time to dispose of the waste in the holding tank and replenish the water supply. Many truck stops and gas stations, chain and individually owned, have installed sanitary dumping stations for just this purpose. Booklets are available that list these dumping stations.

When stopping for the night, your Airstream is built to be safely parked in any spot that is relatively level and where the ground is firm. Your facilities are with you. You are self-contained. Unless the tow vehicle is needed for transportation, it is not necessary to unhitch.

### DANGER

**At each campsite, make sure you have not parked in such a manner as to block the operation of the escape window by being too close to trees, fences, or other impediments. Scenic views are one reason for traveling, but don't park so the beautiful lake or steep cliff is just outside your escape window.**

Choose the most level parking spot possible. Stabilizing jacks or blocks may not be required for an overnight stay. However, if you put the jack pad on the hitch jack and run the hitch jack down to take the weight off the tow vehicle's springs, it will provide some stability. If you must park on a slope, park facing downhill. It is easier to level the trailer this way.

Before moving on, check your campsite, both for cleanliness and also, to be sure you haven't left anything behind. Turn off the gas supply and make sure everything is properly stowed. Use your pre-travel check list and you are ready for more travel adventure.

## Extended Stay

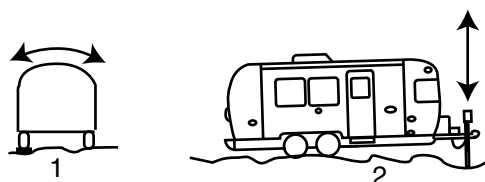
Making a long trip in your Airstream is not very different from making a weekend excursion. Since everything you need is right at hand, you are at home wherever you go. When packing for an extended trip, take everything you need, but only what you need.

When you plan to stay in one location for several days, weeks, or months, position the trailer so it is as level as possible. Selecting a campsite and orienting the trailer to take advantage of natural terrain can often reduce the amount of leveling required and help improve overall stability. Check that the trailer is level using a small bubble level placed on the interior work counter. If correction is necessary, level the trailer side-to-side first. Commercially available wheel levelers or suitable leveling ramps may be used. If leveling blocks are used, ensure the entire tire footprint is fully supported. Do not place tires in holes for leveling. Maintaining a level trailer helps promote proper plumbing system operation, sleeping comfort, and the proper function of cooking, dining, and work surfaces.

## General Information

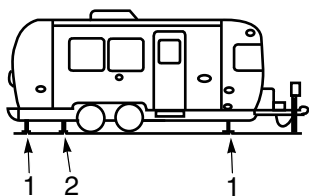
### Leveling

Block or chock the wheels to keep the trailer from rolling. Level from front to rear by disconnecting the hitch from the tow vehicle, putting the jack pad under the hitch jack, and adjusting the jack up or down until you are level. Use stabilizing jacks at all four corners, as shown in the diagram, to eliminate the natural spring action of the axles.



1. Side-to-Side
2. Front-to-Rear

### Stabilizing Jacks



1. Stabilizing Jack Location
2. Lifting Jack Location

#### **⚠ WARNING**

Stabilizing jacks should only be used to stabilize trailer. Do not use jacks to lift the trailer.

#### **⚠ WARNING**

Whenever the trailer must be lifted with a jack, as when changing a tire, always place the lifting jack under the main frame rail. A label is provided to indicate the proper position for the jack. Never use stabilizing jacks to lift the trailer.

For more information on jacking, see [Tire Changing on page 8-3](#).

### Effects Of Prolonged Occupancy

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

Moisture can condense on the inside surfaces of the trailer during cold weather when relative humidity of the interior air is high. This condition is increased because the insulated walls of a recreation vehicle are much thinner than house walls. Also, the relatively small volume and tight, compact construction of modern recreational vehicles means that the normal living activities of even a few occupants will lead to rapid moisture saturation. Estimates indicate that a family of four can vaporize up to three gallons of water daily through breathing, cooking, bathing, and washing. Unless the water vapor is carried outside by ventilation, or condensed by a dehumidifier, it will condense on the inside of the windows and walls as moisture, or in cold weather, as frost or ice. It may also condense out of sight, within the walls or the ceiling, where it will manifest itself as warped or stained panels.

Appearance of these conditions may indicate a serious problem. When you recognize the signs of excessive moisture and condensation in the trailer, action should be taken to minimize their effects.

**Tips To Controlling Condensation**

Allow excess moisture to escape to the outside when:

- Bathing, washing dishes, hair drying, etc
- Laundering, and using appliances and non-vented gas burners
- Cooking (always use the stove vent hood)

Avoid dead air spaces by:

- Using a fan to keep air circulating.
- Leaving closet and cabinet doors partially open.

To help alleviate cold weather condensation:

- Keep the temperature as reasonably cool during cold weather as possible.
- Allow your trailer to breathe; do not make it airtight.
- Allow some warm air to be removed and some cool outside air in.
- Do not allow the furnace to recycle humid interior air, and provide reasonable ventilation.

In hot weather, starting the air conditioner early will help remove excess humidity from the air while lowering temperatures.

**NOTICE**

**Your trailer is not designed, nor intended, for permanent housing. Use of this product for long-term or permanent occupancy may lead to premature deterioration of structure, interior finishes, fabrics, carpeting, and drapes. Damage or deterioration due to long-term occupancy may not be considered normal, and may, under the terms of the warranty, constitute misuse, abuse, or neglect, and may therefore reduce the warranty protection.**

**Molds**

Molds are microscopic organisms that naturally occur in virtually every environment, indoors and out. Outdoors, mold growth is important in the decomposition of plants. Indoors, mold growth is unfavorable. Left unchecked, molds break down natural materials, such as wood products and fabrics. Protect your investment by understanding the potential risks that mold imposes.

**Contributing Factors To Mold Growth**

For mold growth to occur, temperatures, indoor or outdoors, must be between 40° and 100°F, and must also have a source of moisture, such as humidity, standing water, damp materials, etc. Indoors, the most rapid growth occurs with warm and humid conditions.

**Inhibiting Mold Growth**

By controlling relative humidity, the growth of mold and mildew can be inhibited. In warm climates, use of the air conditioner will reduce the relative humidity. Vents are located in the bathing and cooking areas. Constant use of these vents is advised during food preparation and bathing, even during colder weather. Additionally, opening a window during these activities will assist in ventilation. In extremely humid conditions, the use of a dehumidifier can be helpful.

Frequent use of your trailer, or cleaning regularly, are important preventive measures. Additionally, any spills should be wiped up quickly and dried as soon as possible. Avoid leaving damp items lying about. On safe surfaces, use mold or mildew-killing cleaning products. Check sealants regularly, and reseal when necessary to avoid water leaks. Proper preventive maintenance to the trailer and its accessories, as described both in this manual and in accompanying literature, will provide the best protection to the trailer.

For more information concerning controlling moisture in the trailer, [see Tips To Controlling Condensation on page 3-9](#).

**NOTICE**

**If using a dehumidifier, please read and follow all manufacturer instructions and recommendations for the use and cleaning of the dehumidifier.**

# General Information

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## Winter Traveling

Traveling in sub-freezing temperatures will require certain precautions to protect the plumbing system and your personal belongings from being damaged by freezing.

Whenever possible, the heat should be kept set to a constant temperature. It is easier for the furnace to keep a constant room temperature than allow the trailer temperature to drop to 50°F, then attempt to raise it to room temperature.

The furnace is ducted to provide heat to the below floor water tanks and plumbing to prevent freezing.

Some states do not allow LPG to be turned on while moving. While traveling in these states, simply use your common sense. How cold is it? How long will it be before you can turn the heat back on? Is the temperature dropping or rising? Remember, when towing at 50 MPH, the wind chill factor will cause the interior of the trailer to cool much faster than a parked trailer.

1. When parked in sub-freezing temperatures, make sure to keep a full supply of LPG and plug into an external AC power source whenever possible.
2. If your stay is longer than overnight, you should try to have 120-volt electricity available. Minimize the use of electricity if a 120-volt power source is not available.
3. Leave cabinet doors, wardrobes, and bed doors partially open to allow warm air to circulate around plumbing lines and fixtures. Insulate and/or wrap your exterior water lines with heat tape.

### **NOTICE**

**Drain and winterize your airstream if the water system is not being used during winter traveling. Refer to [Section 8 - Maintenance](#) in this manual for winterizing instructions.**

# AIRSTREAM®

## Section 4 FLOOR PLANS AND SPECIFICATIONS

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# Floor Plans And Specifications

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## Floor Plans

### *17RB World Traveler*



### *22RB World Traveler*



## Specifications

### Specification Chart

#### NOTE

All product information and specifications listed are as accurate as possible at the time of printing. Since we continually strive to improve our products, all specifications are subject to change without notice. All capacities are approximate and dimensions are nominal and are checked and updated throughout the model year.

| Item                                                | 17RB        | 22RB        |
|-----------------------------------------------------|-------------|-------------|
| Exterior length                                     | 17' 4"      | 22' 2"      |
| Exterior width                                      | 7' 6"       | 7' 6"       |
| Interior width                                      | 7' 2"       | 7' 2"       |
| Exterior height                                     | 9'          | 9'          |
| Interior height                                     | 6' 6"       | 6' 6"       |
| Hitch ball height                                   | 18"         | 18"         |
| Hitch ball size                                     | 2 5/16"     | 2 5/16"     |
| UBW (lbs. with LP & batteries)                      | 3150        | 3700        |
| Hitch weight (lbs. with LP & batteries)             | 375         | 450         |
| GVWR (lbs.)                                         | 3500        | 4500        |
| NCC (lbs.)                                          | 350         | 800         |
| Fresh water tank (gal.)                             | 19          | 19          |
| Gray water tank (gal.)                              | 24          | 24          |
| Waste water tank (gal.)                             | 12          | 12          |
| Lug nut torque (Max), aluminum wheels (ft lbs.)     | 110         | 110         |
| Lug nut torque (Max), steel wheel (spare) (ft lbs.) | 100         | 100         |
| Tire size                                           | ST225/75R15 | ST225/75R15 |
| Tire Max cold* inflation pressure (psi)             | 80          | 80          |
| Tire Max load rating (lbs.)                         | 2830        | 2830        |

\*The term *cold* refers to how long a tire has sat idle. *Max cold inflation pressure* should be checked in the morning (after sitting idle for at least three hours) before driving more than a few miles, or before rising ambient temperatures and the sun's radiant heat can affect tire pressure.

# Floor Plans And Specifications

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The UBW and NCC weights listed in the Specification Chart are for the base unit with LP and batteries included (based on factory lithium battery installation). Heavier battery types will reduce the available carrying capacity. Always verify actual weight before towing.

Gross Vehicular Weight Rating (GVWR) is the maximum permissible weight of this trailer when fully loaded. It includes all weight at the trailer axle(s) and coupler.

Unit Base Weight (UBW) is the dry weight of the base unit without options.

Net Carrying Capacity (NCC) is equal to GVWR minus UBW. Gross Axle Weight Rating (GAWR), is the value specified as the load-carrying capacity of a single axle system, as measured at the tire-ground interfaces.

## Specification Tags

For precise cargo capacity, refer to the Cargo-Carrying Capacity tag on the inside of the screen door. The **WEIGHT OF CARGO SHOULD NEVER EXCEED** numbers shown on the tag, which is the maximum weight of cargo you can load and carry in your specific trailer as built with its options.

Located on the front roadside of your trailer are the Tire and Loading, and Vehicle Manufacturing tags. The Tire and Loading information tag lists the Size and Cold Inflation Pressure of the tires on your vehicle, the weight of your trailer as manufactured, and the GVWR.

The Vehicle Manufacturing tag lists the size of tires and wheel rims, Maximum Cold Inflation pressures, the Vehicle Identification Number (VIN), and Gross Axle ratings (GAWR).

## Measuring Hitch Ball Height

The proper height will vary according to the weight you carry and the tires you use. However, checking the height on your trailer is relatively easy:

1. With trailer parked on fairly level ground, measure from ground to bottom of frame, front and rear.
2. Adjust front jack until measurements are equal.
3. Now, measure from ground to the inside top of the ball coupler. This figure is the hitch height. The hitch ball is then usually set 1/2 to 1 in. higher, according to the spring rate of your tow vehicle, to allow for it to settle when the trailer is hitched up.

# AIRSTREAM®

## Section 5 INTERIOR

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Section 5  
Interior

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## Interior Features and Care

The interior of every Airstream is crafted with features that offer comfort, convenience, functionality, durability, and design appeal. Our goal in this section is to deliver the best experience possible by providing you with the knowledge you need to enjoy these features and care for them to ensure their longevity.

 The Airstream Supply Company is your trusted source to obtain care products and supplies to help maintain and enjoy your Airstream. Scan this QR code to visit and explore our recommended assortment of care products and much more at [airstreamsupplycompany.com](http://airstreamsupplycompany.com).

Many of the appliances and components installed in your Airstream come with manuals from the manufacturers that produced them. These manuals provide detailed instructions and critical safety alerts that should be read and followed before operating them. If any manuals have not been provided in your owner's packet, contact your dealer, appliance or component manufacturer, or Airstream Customer Service at 937-596-6111 or email: [support@airstream.com](mailto:support@airstream.com)

### **⚠ WARNING**

**To protect occupants and furnishings, do not smoke when drowsy. Immediately remove any burning cigarette or falling ash from furniture. Upholstery and other fabrics can ignite from a smoldering ember.**

## Interior Aluminum Skin

The interior white aluminum can be cleaned using a mild detergent/soap (less than 0.5% phosphate) mixed in warm water, to a ratio of about one cup of soap per five gallons of water. Some car wash soaps or specialized RV wash soaps can be used, following the instructions that accompany the product. Using a soft sponge or soft cloth, gently clean the area. Rinse immediately with fresh water and dry with a soft towel. A soft-bristled brush can be used sparingly on tougher spots. Avoid aggressive scrubbing as this may damage the finish.

### **NOTICE**

**Mold and mildew can damage the white coating. Do not use abrasive materials or cleaners, acid-based cleaners, high-phosphate detergents, strong or undiluted commercial cleaners, or solvents; they may damage the finish.**

For tougher stains and soil, oil and grease, small areas can be cleaned with a kitchen cleaner. Large areas may require a grease remover but it must be diluted. Test any cleaner prior to use. Use plenty of clean cloths to prevent spreading soiled areas across the surface.

## Windows and Blinds

### *Acrylic Windows*

### **NOTICE**

**The World Traveler's windows are made of acrylic and require special care when cleaning. Common household or automotive glass cleaners often contain ammonia, alcohol, or other solvents that can damage the acrylic surface; see *Acrylic Window Care* on page 6-3.**

### *Dual Function Screens and Privacy Blinds*

The sliding screen and privacy blinds are held together with a magnetic strip. They can be positioned with the blinds closed, with the screen deployed, or any position in between. They can also be separated by sliding them apart to provide open air access.

### **NOTICE**

**To prevent heat buildup between the blinds and interior acrylic window panes, do not close the blinds more than two-thirds during hot, sunny conditions or when the trailer is not in use.**

Regular cleaning helps prevent the buildup of dust and dirt that can stain or lead to damage of accordion-style blinds, especially when combined with moisture. Use gentle cleaning methods to avoid creasing the material, such as lightly dusting with a microfiber duster.

If necessary, you can vacuum or use compressed air to remove dust but exercise caution to avoid damaging the blinds. If you choose to vacuum, select one that is adjustable and utilize a gentle setting along with a soft brush attachment. Always test first to ensure it won't pull or crease the material. When using compressed air, opt for moisture-free and residue-free canned air, such as that intended for electronics, or an air compressor with a filter to prevent any damage. Apply low pressure and maintain a safe distance to avoid harming the material while working along the pleats.

## Vinyl Flooring

Use a soft broom to sweep the floor. A vacuum cleaner may damage the flooring, especially the type that use beater bars. In most cases, a clean damp cloth or mop will suffice to clean dirty flooring. When necessary, a solution of mild detergent or mild household vinyl floor cleaner can be used to clean the flooring.

Do not use abrasive materials for cleaning. The use of certain cleaning agents, including but not limited to powdered abrasives, solvents, furniture polish, spirit based polish, bleach, and industrial strength cleaners are not recommended.

Always follow the flooring manufacturer's instructions. Check that the cleaner is suitable for use with cushioned vinyl floor coverings. Scuffs, dirt, and spillages should be cleaned up as soon as possible.

### *Interior Doormat and Rug Selection*

To avoid staining or discoloration of vinyl flooring, only use doormats or rugs made of natural fibers. The rubber-backed mat provided by Airstream is suitable for outdoor use only.

### **NOTICE**

**Rubber or latex-backed mats or furniture with rubber feet may stain or discolor vinyl flooring.**

## Sink and Faucet

To clean sinks and faucets, dampen a soft cloth with warm water and a small amount of mild liquid soap or detergent. Gently wipe down all surfaces, then rinse with clean water and dry with a soft cloth. Avoid abrasive scrubbing sponges, steel wool, scouring powders, and harsh chemical cleaners, as these can damage or dull the protective finishes on sinks and faucets. Using gentle cleaning methods helps preserve the appearance and integrity of the materials. For best results, wipe down sinks and faucets after each use to prevent water spots, soap residue, and grime from accumulating.

Avoid leaving cookware in the sink, especially metal like cast iron, as it can cause stains and scratches. Depending on the sink and faucet manufacturer, additional care instructions may be included in your owner's packet.

## Shower Stall

**Interior Surface Care:** Wet the shower surface and clean it using a non-abrasive sponge or soft cloth and a non-abrasive liquid detergent cleaner safe for plastic, acrylic, gel coat, and fiberglass bath surfaces. Avoid using acidic or harsh commercial bath cleaners. Rinse and dry with a soft towel. A wax or sealer suitable for these surfaces can be applied to the walls of the stall to restore gloss to dull areas when necessary, but should not be used on the shower floor as this could create an unsafe, slippery surface.

### **⚠ WARNING**

**Do not apply wax to the shower floor, it will create an unsafe slippery surface.**

**Showerhead:** The showerhead facilitates water-saving when camping without a fresh water hookup. To conserve water while showering with fresh tank water, turn the water off between lathering and rinsing. For showerhead and hardware care, see Sink and Faucet Care in this section.

## Furniture and Upholstery

### *Hardwood Furniture*

To maintain the appearance and longevity of hardwood surfaces, use only soft microfiber cleaning towels or electrostatic microfiber dusters. Avoid rough or abrasive scrubbing materials. Use a high-quality furniture cleaner that does not contain ammonia or bleach.

### *Roof Locker Doors*

Regular cleaning helps prevent the buildup of dust and dirt, which can stain or damage the felt-board doors, especially when combined with moisture. To clean them, first remove dust and debris using a soft-brush vacuum attachment or lint roller. For spills or stains, blot immediately with a clean cloth. If needed, gently dab with warm water and mild detergent, then blot again to remove any residue and allow the panel to air dry. Avoid rubbing, aggressive scrubbing, or heat, as these can distort the felt. For stubborn or greasy stains, a mild solvent may be used, but always test it first in an inconspicuous area, such as the inside of the door.

### *Countertops*

The counter tops are made of a high-pressure laminate and can be cleaned with soap and water, or you can use a common solvent on tough spots. Do not use abrasive cleaners since they could scratch the surface. A protective pad should always be used under hot utensils or pans.

### Upholstery

It is best to spot clean with upholstery shampoo, a mild foaming detergent, or mild dry cleaning solvent. Blot up spills immediately to reduce soaking of the fabric and cushions. Pretest a small, inconspicuous area before proceeding. Avoid saturating the fabric. Clean spots or stains from the outside to the middle to prevent circling. Opt for a professional furniture cleaning service when the furniture has reached an overall soiled condition.

#### NOTICE

**Do not use hot water extraction cleaning (steam cleaners) or remove cushion covers for separate dry cleaning or washing. Any tumble cleaning method will damage upholstery fabric.**

### Bed

The 17RB bed can be raised to an upright position, where the spring mechanism holds it securely. This provides hands-free access to the storage compartments and appliances beneath the bed. To lower, gently push the bed back into place.

The 22RB bedroom features a bed made up of two halves that form a single sleeping surface. Each half of the bed can be lifted using the attached strap to an upright position, where the spring mechanism holds it securely. This provides hands-free access to the storage compartments and appliances beneath each half of the bed. To lower, gently push each half back into place.

Avoid storing items in proximity to appliances and vents, [see Storage on page 5-5](#).

#### ⚠ CAUTION

**Ensure hands are clear before lowering beds. Use only the strap to raise and lower the bed.**

### Dinette/Bed Conversion

In the dining position, the table is set up, and the backrest cushions are arranged along the roadside and curbside walls, or as desired for lounging.

To convert the dinette into a bed, remove the cushions. Lift the front of the table just enough for the leg to clear the floor. Press the latch on the leg to release it, then fold the leg up and lock it into place on the underside of the tabletop. Carefully lift the back of the table off the wall brackets, avoiding contact with the wall. Once unhooked, lower the tabletop on its hinge to form a platform between the dinette seats.

Retrieve the stored cushions and place them over the tabletop with their wedged ends overlapping in the center to complete the sleeping surface. The backrest cushions can be swapped from roadside to curbside and positioned so that the flat ends meet beneath the window, with the curved ends positioned outward against the wall, or as desired for lounging.

#### NOTICE

**Convert the dinette to the bed position before towing. Securing the table reduces vibration and helps prevent wear or damage.**

### Storage

A well-secured interior protects both your Airstream and your belongings on the road. Always check that cabinets and drawers are fully secured before departure. Stow all countertop items prior to departure.

Heavy items, such as cookware and canned goods, should be stored on the floor or on lower shelves inside cabinets to reduce the chance of objects shifting or coming loose while traveling. Overhead lockers are best reserved for lighter supplies, such as paper goods or linens. Whenever possible, use unbreakable dinnerware, and pack items with soft goods to help prevent shifting. Clothing should also be secured for travel; consider using locking clothes hangers.

Additional storage compartments are found under the bed.

#### ⚠ WARNING

**Keep flammable materials away from appliances and vents. Do not store items inside appliance compartments.**

#### NOTICE

**Stow all countertop items before travel. Always ensure loose items are properly secured prior to travel.**

## Plumbing

### Fresh Water System

When filling the water tank in your Airstream, always use potable water that is safe for drinking to reduce the risk of ingesting harmful bacteria and to prevent contamination of the fresh water system. For instructions on filling the tank, [see Gravity Water Fill on page 6-6](#). For instructions on how to use the city water hookup, [see City Water Hookup on page 6-6](#).

### Fresh Water Lines and Tanks

To maintain the quality and integrity of your Airstream's fresh water system, periodic sanitization is recommended; [see Sanitizing on page 8-9](#)

If your Airstream will be stored or towed in freezing temperatures, the fresh water system must be properly winterized to prevent damage. For detailed steps, [see Winterizing and Storage on page 8-12](#).

The fresh water tank and water lines are equipped with drains to assist with maintenance and seasonal preparation. For more information, [see Fresh Water Tank Draining on page 8-8](#).

### Water Pump

The switch for the water pump is located on the monitor panel; [see Monitor Panel on page 5-7](#). When turned on, the water pump's controller maintains a consistent regulated water pressure and steady water flow based on demand.

The water pump is typically left off when hooked up to a city water supply. However, if city water pressure is lower than desired the water pump can be turned on to facilitate increased water pressure, provided there is a supply of water in the fresh water tank. The tank will be depleted by the amount needed to supplement the flow of city water.

Access to the water pump will be necessary for periodic cleaning of the strainer screen; [see Water Pump Access Location on page 8-8](#) and [see Strainer Cleaning on page 8-8](#).

### NOTICE

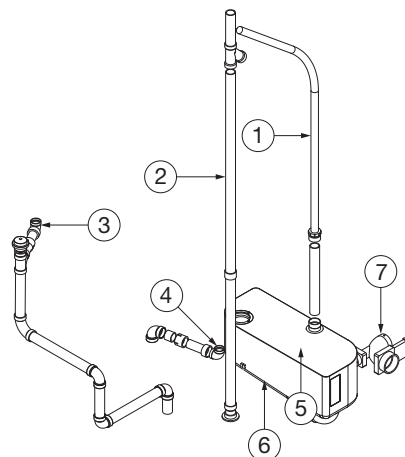
Road vibration may force a faucet open in transit.  
Ensure the pump is OFF prior to travel.

### NOTE

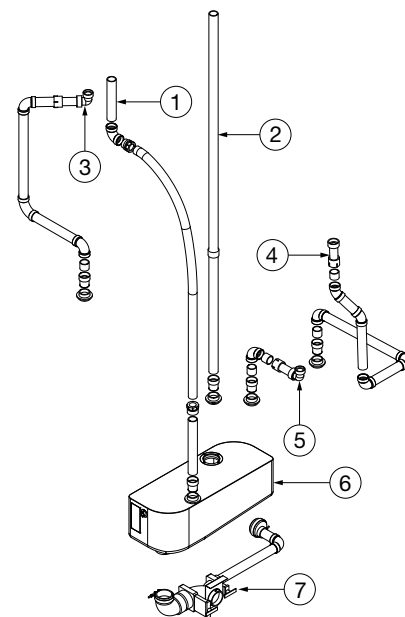
If water flow is interrupted, check the water supply and turn the pump off and back on.

## Drain and Waste System

### 17RB



### 22RB



1. Waste Tank Vent
2. Gray Tank Vent
3. Galley Drain
4. Lavatory Drain
5. Shower Drain
6. Waste Tank
7. Dump Valve Assembly

The Drain and Waste System consists of the sink and shower drains (depicted above), toilet, holding tanks, and holding tank dump valves. The toilet drains into the waste water holding tank, while all other drainage empties into the gray water tank. Both tanks drain

through a common outlet, so only one sewer hose connection is needed at a dump station; [see Emptying the Holding Tanks on page 8-11](#) also, [see Deodorizers and Biological Chemicals on page 5-7](#) for tank preparation.

Check the monitor panel regularly. If the waste water holding tank becomes full, the toilet bowl cannot be emptied. If the gray water tank overfills, drain water may overflow; [see Monitor Panel on page 5-7](#).

### ⚠ CAUTION

**Failure to monitor holding tank levels could result in unsanitary overflow.**

#### Toilet

The toilet features a single pedal that opens and closes the slide mechanism and water valve.

Pressing the pedal flushes waste and sprays water down the side of the bowl. Water will continue to flow briefly after releasing the pedal. To conserve water (if equipped), hold the hand-sprayer over the bowl and press its thumb lever while pressing the pedal. This directs all the water through the hand-sprayer. For additional instructions, please refer the toilet manufacturer's manual.

### NOTICE

**Never put wet-strength paper towels, tissues, facial tissues, feminine hygiene products, automotive antifreeze, ammonia, alcohols, acetone, patterned toilet tissue, table scraps, or other solids in the toilet, as they will not dissolve, may catch in the mechanism, or otherwise harm the system. Most RV stores offer tissue designed specifically for RV use that will completely dissolve and work well with any system.**

### NOTICE

**When you dump the bowl of the toilet, make sure all paper and solids have cleared the slide mechanism before you allow it to close. Failure to do so can cause the groove for the slide to become jammed and the slide will no longer close completely.**

#### Deodorizers and Biological Chemicals

A variety of deodorizers and tank treatment chemicals are available in tablet, liquid, and powder form. These products help control odors and promote bacterial activity to break down waste and toilet paper in the waste water tank. Always follow the manufacturer's

directions and add the treatment through the toilet before use. It's also important to add a few gallons of water by filling the bowl and pressing the foot pedal several times. For more information, [see Extended Stays on page 8-11](#).

#### Monitor Panel



Tank levels are monitored by sender pads mounted on the sides of each tank. Data from each sender pad is transmitted to the Monitor Panel display through a single two-conductor wire.

When a button for a particular tank is pressed, the display powers up to show the current level. The display also indicates the battery voltage when the BATT button is pushed.

#### Viewing Tank Levels

Press and release the button corresponding to the tank to be checked, and the display will show the levels in percent on the LED display. If no other button is pressed, the display will shut off after about 5 seconds. The 5-second time-out will restart every time a button is pressed.

To continuously display a reading, press and release the desired button, then press the same button again. The display will be on hold mode when the button is released, indicated by the dot on the right-hand side. While the display is in hold mode, it will recheck the level once per second so the user can watch the level change while the tank is filled or drained. The display will automatically shut off after 5 minutes in hold mode. To end the hold mode before the 5 minutes is up, press any tank button, and the display will shut off. By pushing two buttons at once, the diagnostic functions can be accessed.

#### Viewing Battery Voltage

Press the BATT button and release it; the display will show the battery voltage on the LED display. The display will shut down after about 5 seconds if no other button is pressed. The 5-second time-out will restart every time a button is pressed.

There is no hold mode for the battery voltage. However, if the BATT button is held down, the display continuously rechecks the voltage and shows the updated value. The reading may flicker back and forth between two values.

## Electrical System Overview

While the World Traveler is factory-equipped to operate on 120V/30A service, the installed converter/charger is capable of operating with a wide range of AC voltages and frequencies with the proper electrical service modifications. The charger itself does not need to be replaced when switching regions of operation. Contact your Airstream dealer for required modifications, which may, depending on the region, include items like replacing the breakers and the male end of power cord. For more information, [see Converter/Charger on page 5-10](#).

The electrical system in your Airstream consists of two primary power sources: a 120-volt AC (alternating current) system and a 12-volt DC (direct current) system. The information that follows explains these systems, their components, and how they operate.

### 120-Volt AC System

The term 120-Volt AC (120V AC) refers to the type of electrical service your trailer receives when connected to an external power source such as a campground pedestal, residential outlet, or generator.

The 120V AC system supplies power to high-demand appliances such as the air conditioner or microwave (if installed), along with standard household-style outlets for plug-in items like entertainment devices and small kitchen appliances. Additionally, it powers the converter/charger, which converts 120V AC power into 12V DC to supply the 12V system and charge the batteries.

### Shore or Generator Power

The trailer's 120V AC system is energized when connected to a compatible external power source—either shore power from a campground or home outlet, or from a generator. To establish a proper connection, [see Electrical Service on page 6-7](#).

Once connected, incoming shore power is routed to the 120V AC distribution panel, where several breakers provide circuit load protection, and power is distributed to each appliance or receptacle.

Power will be available to all onboard systems when a shore connection is established. However, the ability to run multiple items simultaneously depends on the available amperage. A 30A, 120V shore connection (common campground service) allows more flexibility and more devices to run simultaneously than a residential type service (15A or 20A) connection. When using a generator, power output is limited to the generator's rated capacity.

Regardless of the type of connection, drawing more power than the available service can supply, such as running multiple high-demand loads at once, can exceed capacity and trip a breaker. If you experience a loss of power, check the circuit breakers inside your trailer, as well as the breaker at the power source, and reduce the load if necessary. For detailed information, [see 120V AC Breaker Panel - Power Center on page 5-11](#).

If you are planning an extended stay, it's advisable to keep your trailer connected to shore power if possible. Staying connected to city power ensures a continuous supply of electricity for your appliances, lighting, and other onboard systems while also keeping the battery bank charged. Doing so reduces reliance on limited battery power and alternative sources, such as generators or solar, especially during periods of higher energy consumption.

### 120V AC Outlets (Standard and GFCI-Protected)

Your Airstream has 120V outlets (receptacles) inside and outside for plugging in a variety of household electrical devices. These receptacles require an external AC power connection to function.

Ground Fault Circuit Interrupter (GFCI) outlet(s) provide protection against electrical shock by continuously monitoring the flow of current through the outlet. The GFCI compares the amount of current leaving the outlet to the amount returning. If it detects a difference, indicating that current is leaking to ground, the GFCI interrupts the circuit in a fraction of a second, removing power and helping to protect the user from electric shock.

Each GFCI outlet is designed to trip when a difference of approximately 5 milliamperes (mA) or more is detected. Since most people can feel currents as low as 2 mA, a mild shock may still be felt even when the device trips. Because the interruption occurs so quickly, the risk of serious injury is significantly reduced, though individuals with acute heart conditions or other sensitivities may still be at risk.

While GFCI outlets provide a high level of protection, they do not eliminate the need for caution. Electricity remains dangerous if handled carelessly or used without reasonable safety measures.

Each GFCI outlet protects the outlets connected to its circuit, which may include standard outlets in the same area (typically labeled GFCI). This allows different areas of the trailer to have localized protection and reset capability. A tripped GFCI will only interrupt power to outlets on its protected circuit, ensuring that a single trip does not disable other areas of the trailer.

Pressing the TEST button on a GFCI outlet temporarily removes power from all outlets on the same circuit, providing a simple way to identify the GFCI's coverage.

### **⚠ WARNING**

**GFCI outlets protect against electrical shock when current escapes to ground, such as when an appliance contacts water. They do not protect against all internal appliance faults or replace proper grounding and overcurrent protection. Always exercise caution when using electrical appliances, especially near water.**

#### **GFCI Outlet Test**

Perform this test on each GFCI outlet monthly and record the date:

1. Press the TEST button. The GFCI should trip, cutting power to the outlet and all outlets on the same circuit.
2. Press the RESET button. Power should be restored to the outlet and all outlets on the circuit.

If an outlet does not lose or regain power as described, the GFCI is not functioning properly. Contact a qualified, certified electrician to assess the situation, determine the cause, and perform necessary repairs.

### **⚠ WARNING**

**GFCI outlets provide consistent protection as long as they are functioning properly and tested regularly using the built-in TEST and RESET buttons.**

#### **12-Volt DC System**

The term 12-Volt DC (12V DC) refers to the type of low-voltage electrical service your trailer uses to power essential systems, and is commonly associated with battery power. This power comes from the trailer's onboard battery bank and is also supplied, or maintained, by the converter/charger when connected to an external AC power source. Many vital components—such as interior lighting, the water pump, vent fans, the LP gas detector, the refrigerator, and control circuits for some appliances—rely on 12V DC power to operate.

The converter only provides 12V output when the trailer is connected to an external AC power source. When disconnected, the 12V system receives power from the batteries; [see Converter/Charger on page 5-10](#). When operating on battery power alone, 120V AC components, such as the air conditioner, microwave (if installed), and standard outlets, will not function.

#### **Battery Power**

The trailer's two 12V batteries are housed in a battery box located behind the LP tanks at the front of the trailer. Together, they form a battery bank that supplies power to the trailer's 12V DC electrical system when shore power is not available; [see Batteries on page 5-12](#). Also, [see Battery Monitoring and Charging on page 5-14](#). To operate the trailer's 12V system solely on battery power, the battery disconnect switch must be in the ON position; [see Battery Disconnect Switch on page 5-12](#).

The more demand you place on the batteries by using 12V system components, the faster the batteries will discharge. Drawing more power increases current flow, which reduces the battery's operating time.

Battery capacity is measured in amp-hours (AH), which indicates how much electric current a battery can provide over time. For example, a 100 AH battery can deliver 1 amp for 100 hours or 10 amps for 10 hours.

To approximate how much battery power you're using, multiply the current (amps) your device draws by the number of hours it runs: Amps (A) × Hours (H) = Amp-Hours (AH). For example, if a device uses 5 amps and runs for 4 hours, it will use about 20 amp-hours of battery power (5 A × 4 H = 20 AH).

### **NOTICE**

**Battery damage may occur if the converter/charger is not properly configured with the appropriate charging profile; [see Converter/Charger on page 5-10](#).**

#### **Lighting**

The battery disconnect switch must be in the ON position for the lighting to operate. Lighting is controlled by switches mounted on the interior walls. The touch feature of the dimmer switches allows you to tap the lights on or off with a single touch, or to dim the lights by holding your touch to dim up, releasing, and holding to dim down.

Some lighting fixtures may have a switch at the light. If an LED light is not functioning and there are no electrical issues, the fixture may need to be replaced.

To operate the flat/thin-profile LED light(s), touch and release the metal frame at the side of the lens to turn the light on or off. When on, touch and hold the switch to adjust the brightness up or down. Release, then touch and hold again to reverse the dimming direction.

## Converter/Charger

When connected to an external AC power source (shore or generator), the charger—located in the base of the wardrobe behind the AC breaker panel—converts AC input to 12-volt DC output. This output powers 12V DC circuits and charges the battery bank. If the battery voltage is low, the charger continues to power DC loads while recharging the batteries. The charger uses an adaptive 5-step charging algorithm to optimize battery performance and long-term maintenance. It functions automatically and requires no user interaction beyond the charge profile setup performed by the installer.

The charging profile has been pre-set to a lithium charging profile at the Airstream factory; [see Factory Installed Lithium Batteries \(Optional\) on page 5-13](#). For dealer-installed batteries, the installer must select the appropriate charging profile using the VictronConnect app.

### NOTICE

**Battery damage may occur if the converter/charger is not properly configured with the appropriate charging profile.**



For additional details, refer to the charger manufacturer's instructions, which explain the front-panel LED indicators and how to select or adjust profiles. The manual is included in your owner's packet or can be accessed on the manufacturer's website by scanning the QR code to visit <https://www.victronenergy.com>.

If the charger is not powering the 12V system, first confirm that an external AC source is connected and providing stable power. If external AC power is present, check the circuit breakers in the distribution panel; [see 120V AC Breaker Panel - Power Center on page 5-11](#).

The converter/charger installed in your Airstream is designed for flexibility and can operate on a range of AC supply voltages. From the factory, the World Traveler is configured for 30A/120 VAC power in the U.S., and with minimal modifications, it can support usage in many other countries (for example, 16A/230 VAC power in Europe). The charger itself does not need to be replaced when switching regions. Contact your Airstream dealer to discuss required modifications. For more information about charging; [see Battery Monitoring and Charging on page 5-14](#).

## Power Distribution

The trailer's primary electrical power distribution is handled by two service panels, the 120V AC Panel – Power Center (shown on the right) and the 12V DC Panel (shown on the left), along with a 12V front-end board (not shown). Each component is described in the following paragraphs.



### ⚠ WARNING

The power center is a centralized power switching and distribution center. The potential for lethal electrical shock is present in this box. Inadvertent shorts at this box could result in damage and/or injury. All servicing of this box should be done by a qualified Service Technician.

### ⚠ WARNING

Disconnect or de-energize all main power sources, including shore power, generator, battery, and solar, before servicing any electrical system components.

### 120V AC Breaker Panel - Power Center

Incoming shore power is routed to the 120V AC Panel where standard residential-style (resettable) circuit breakers provide circuit load protection. Breakers are identifiable by the affixed labels. In the event of a 120V circuit failure, check the breaker for the shoreline power source and the trailer's circuit breakers.

To access the breakers, press the spring-loaded door at the bottom of the panel. Airstream has installed breakers per RVIA (NEC) listing requirements.

Like a light switch, the breaker's up position is ON, and down is OFF. If an overload or short occurs, the breaker will snap to the OFF position to protect the connected circuit. As a result, any device running on the circuit will lose power. Before attempting to reset the breaker, consider the cause. If a connected device is faulty or uses a higher amperage than the circuit breaker's capacity, turn it off before resetting the breaker.

Resetting a breaker requires external AC power going to the breaker box. Firmly push the breaker switch to the OFF position and back to the ON position. If the breaker snaps back to the OFF position during the reset, it indicates a fault condition that still exists and should be addressed by a qualified Service Technician. Similarly, if the breaker stays ON but snaps back OFF after turning on a potentially faulty appliance, it suggests a fault condition in that appliance that will require service by a qualified Technician.

### 12V DC Fuse Panel and Blown-Fuse Indicator

The 12V DC Panel houses fuses for the trailer's 12V circuits. To access the fuses, lift the cover plate at the bottom recess. Some individual circuits may also have in-line fuses located near the device they supply. If a 12V appliance or light does not operate, inspect the fuses.

The panel includes blown-fuse indicator LEDs to help identify a failed fuse. An LED will only illuminate if the affected circuit is closed and carrying a load. For example, if a light bulb is burned out or its switch is turned off (open circuit), the LED will not illuminate even if the fuse is blown.

#### NOTICE

**Always replace a blown fuse with one of the same type and amperage rating. Some fuses will require a qualified technician to access and replace. Contact your dealer or Airstream Service Center.**

### 12V Front-End Board

In addition to the 120V AC and 12V DC panels described in this section, the 12V front-end board is located at the front roadside corner of the trailer, under the dinette, behind a vented panel. This board houses the solar charge controller (if solar-equipped), a fuse for the solar port, and a set of Type II auto-reset breakers that provide circuit protection for 12V connections at the front of the trailer, including the trailer brakes, vehicle charge line, batteries, and the solar charge controller.

### Electrical System Operation

#### Battery Disconnect Switch



The battery disconnect switch separates the batteries from the 12V distribution panel and converter charging system. To power the trailer's 12V system from the batteries, the switch must be in the ON position. Regardless of the switch position, the batteries will still receive a charge from a shoreline connection, the tow vehicle while driving and, if equipped, from the solar panels whenever sunlight is available.

The OFF position is primarily used during trailer storage or extended periods of non-use to minimize battery drain. With the switch OFF, the batteries are electrically isolated from the trailer's 12V circuits and the converter, preventing discharge from the trailer's 12V system.

#### Batteries

Airstreams can be equipped with one of three common battery types used in the RV industry: Lithium, AGM (Absorbent Glass Mat), or Lead Acid.

#### NOTICE

**The converter/charger profile is set to a lithium battery profile when it leaves the factory. It must be properly configured for the type of batteries installed. Battery damage may occur if the converter/charger is not properly configured with the appropriate charging profile.**

If you selected the optional solar package with lithium batteries, those components were installed at the Airstream factory; [see Factory Installed Lithium Batteries \(Optional\) on page 5-13](#). Otherwise, your batteries were installed by your Airstream dealer; [see Dealer Installed Batteries on page 5-14](#).

The following sections focus primarily on the lithium battery option, with some basic information about other battery types that may have been installed by your dealer. For detailed specifications, maintenance, and safety information related to dealer-installed batteries, please consult the manufacturer's documentation for the specific batteries selected for your Airstream.

#### ⚠ WARNING

**Before removing the batteries, verify that shoreline power is not connected. The risk of electrical shock may be present.**

#### ⚠ WARNING

**Be sure to reconnect the battery cable terminals to the correct battery posts. Failure to do so could damage the battery and connected systems and potentially cause injury.**

#### ⚠ WARNING

**Before use, review all safety information, including Notes, Cautions, and Warnings, provided the battery manufacturer.**

### Factory Installed Lithium Batteries (Optional)

 If your Airstream was equipped with two 100Ah 12V LiFePO4 batteries at the factory, before operating the system, please read the Battleborn literature in your Owner's Packet for important warnings/limits, operating instructions, storage, and maintenance instructions. For more information, scan the QR code above or visit <https://battlebornbatteries.com/>.

Lithium-ion batteries outperform traditional lead-acid batteries and offer more usable energy. They have a life span of approximately 3000-5000 cycles. A discharge and a charge determine a cycle. The number of cycles a lithium battery can sustain varies by use. A battery that is only ever discharged to 50% will have more cycles than a battery repeatedly discharged to 0%. Lithium batteries require no active maintenance. The use of lithium batteries also delivers more energy at typically half the weight of a traditional battery.

#### Battery Management System (BMS)

The BMS is an internal component of the batteries and is crucial to ensuring safe operation. The BMS monitors cell voltages, currents, and temperatures to ensure they operate in a safe range and will shut the batteries down should any faults occur. The following are features of the BMS:

- Over/under voltage protection
- High current protection/short circuit
- High-temperature protection
- Low-temperature charging protection
- Cell balancing

#### High Voltage Disconnect

If an individual cell voltage exceeds a prescribed threshold during charging (approx. 14.7V), the BMS will prevent a charge current from continuing. Discharge is always allowed under this condition.

#### NOTICE

**Even though the BMS will protect against issues from overcharging, it should be avoided. The recommended specs are 14.2-14.6 bulk/absorb and below 13.8 float.**

#### NOTE

**If the battery has not been balanced for a long period, a high voltage disconnect could occur at a lower voltage. The battery will rebalance after several full charges.**

### Low-Voltage Disconnect

If an individual cell falls below a prescribed threshold during discharge (approx. 10.5V), the BMS will prevent further discharge. Should this occur, connect to external power using the shoreline power cord to bring the battery out of the low-voltage disconnect and fully charge the battery. Also, [see Battery Monitoring - with SmartShunt on page 5-14](#).

Bringing a battery out of low-voltage disconnect only "wakes" the battery and allows it to accept a charge. Without shore or generator power, the battery may go back into low-voltage disconnect.

#### NOTICE

**The manufacturer states you should charge (wake) your battery within 24 hours of entering low-voltage disconnect; otherwise, you risk damaging the battery and voiding the warranty.**

#### NOTICE

**If the battery is in low-voltage disconnect mode and the battery temperature is below 35°F, the heat function will need some time to warm the battery before performing the wake-up procedure.**

### Battery Heaters/Cold Weather Usage

Lithium-ion batteries may not charge effectively if the internal temperature drops below 35°F (1.6°C). An internal heating element and switch have been added to allow battery usage and charging in cold weather.

The switch is on the side of the battery box. If the red portion of the switch is visible, the battery heaters are ON. When the switch is on, the heater will automatically activate when the internal temperature drops below approximately 35°F (1.6°C) and will shut off when the internal temperature exceeds approximately 45°F (7.2°C). The switch should be turned OFF when storing your trailer to prevent battery discharge.

The heated batteries consume an average of 1.8 amps. Testing indicates, that at 0°F, with no insulation, the heater would be on about 30% of the time. With no other loads or charging, the batteries would give approximately 185 hours of heat capability before the batteries would go into LBCO shutdown. These values are based off testing with the batteries at 100%.

#### NOTICE

**The battery heater's should be turned ON if the outside temperature drops below 35°F**

### Dealer Installed Batteries

This overview covers Lead Acid and AGM batteries. For detailed specifications, maintenance, and safety information related to dealer-installed batteries, please consult the manufacturer's documentation for the specific batteries selected for your Airstream.

#### NOTICE

**Battery damage may occur if the converter/charger is not properly configured with the appropriate charging profile. Consult a qualified service technician and refer to the power converter/charger manufacturer's manual for setup.**

### Lead Acid Batteries

Lead Acid Batteries require periodic cleaning and occasionally need refilling. Follow the battery manufacturer's instructions for service and storage, and wear proper protective gear when handling batteries. Lead acid batteries are generally maintained and stored as follows:

Maintain a clean battery top and check terminals and cables for tightness and cleanliness. A dirty lead acid battery will dissipate its charge through surface contamination.

Ensure the caps are in place and tightly sealed before cleaning. If a baking soda-water solution is used for cleaning, and it gets into the battery, it will neutralize the battery acid. Clean the top of the battery using a ratio of two tablespoons of baking soda to a pint of water. Clean the battery terminal connectors with a wire or nylon brush to remove dirt and corrosion. Ensure the terminals are tight and free of corrosion.

During winter, lead acid batteries should be removed from the trailer and stored in a cool, dry place where there is no danger of freezing. They should be clean and properly filled. Charge every 30-60 days. A battery that is allowed to lose its charge completely will never regain its original power or fully charge. When leaving the battery in the trailer, it is unnecessary to leave it on charge. Disconnect the negative battery cable to prevent the battery's inadvertent discharging, which may lead to a complete discharge.

### AGM Batteries

AGM (Absorbent Glass Mat) batteries require very little maintenance other than keeping them clean and ensuring tight terminal connections. For information on how to properly maintain and store AGM batteries, consult the battery manufacturer's instructions.

### Battery Monitoring and Charging

Your Airstream's batteries are charged primarily through shore power or the tow vehicle, and if equipped, with the solar charging system helping to maintain battery charge when those sources aren't available. This section explains how battery charge status is monitored, and how each charging method works.

#### NOTICE

**Avoid letting the battery get too low in charge, and never store a battery without fully charging it first. Keep your battery in a cool and dry place with plenty of ventilation, and remember to recharge as directed by the battery manufacturer.**

#### NOTE

**A battery will self-discharge 1-3% per month at 80 degrees. Depending on environmental conditions, this discharge rate may increase.**

### Battery Monitoring - with SmartShunt



Airstreams with the factory-installed lithium battery option will have a SmartShunt. The SmartShunt connects via Bluetooth® to the VictronConnect app on your smartphone (or tablet) to conveniently read out all monitored battery parameters, like state of charge, time to go, and historical information. To learn more and to download the app, scan the QR code above, click on one of the icons below, or visit <https://www.victronenergy.com> and click on downloads.

**Use the Bluetooth PIN provided inside the Distribution Power Center to sign up.**



#### NOTE

**Airstreams without the factory-installed lithium option will have a ground stud instead of the Smartshunt. If lithium batteries are installed by a dealer, it is recommended a Smartshunt be installed.**

### Battery Monitoring - Dealer Installed Batteries

Battery voltage can be checked on the Monitor Panel, [see Viewing Battery Voltage on page 5-7](#). To help interpret what the voltage means in terms of available battery power, consult your battery manufacturer's documentation. To understand how battery capacity and power usage affect available operating time, [see Battery Power on page 5-9](#).

### Shoreline Connection Charging

Plug the cordset into an external AC power supply. Verify the cordset's LED indicator is illuminated and plug the other end into the trailer's roadside SmartPlug inlet. For more information, [see Shoreline Power Inlet and Cordset on page 6-7](#).

When the trailer is plugged into an external AC power source, the 12-volt distribution panel receives power from the converter, and the batteries are charged through the converter charging system. Charge will flow to the batteries regardless of the battery disconnect switch position.

The amount of time it takes to charge the batteries depends on a variety of factors, including available shore power amperage, state of charge of the batteries, efficiency of the onboard charger, ambient temperature, and any power usage while charging. Higher amperage shore power connections (such as 30A service) allow for faster shore charging while lower amperage connections (such as 15A or 20A) will extend charge times.

### Tow Vehicle-Supplied Charging

Your Airstream's batteries can be replenished, depending on the tow vehicle, from the tow vehicle alternator through the 7-way cord. Charge will flow to the batteries regardless of the battery disconnect switch position.

### Solar Power Charging



If equipped, the rooftop solar panels on your Airstream help maintain battery health, reduce operating costs, and extend overall battery life. The system's charge controller collects energy from the panels and directs it to the

battery bank. The controller display provides live status information, such as solar input in watts and battery voltage. Charge will flow to the batteries regardless of the battery disconnect switch position.

For solar wiring and component locations, [see 12-Volt Main Schematic on page 8-15](#) and [see 12V Front-End Board on page 5-11](#).

To optimize solar charging, ensure the panels are clean and not shaded or blocked from the sun. Please refer to your owner's packet for reference material that discusses the solar system and its operation.

The charge controller is configured for a three-step charging process:

1. Bulk - The controller delivers as much charge current as possible.
2. Absorption - The controller switches to a constant voltage mode.
3. Float - Voltage is applied a fully charged state.

Airstreams manufactured without the solar option have been pre-wired to support solar panels. These units will have a 3-port rooftop-mounted plug-in that allows installing rooftop solar panels without running wires.

In addition, a quick plug-in port suitable for a portable solar charging kit is located roadside, under the trailer near the front. Portable solar panel kits **MUST** include a solar controller that is set to the profile of the battery you chose for your Airstream, and cannot have an output of more than 30 amps. The solar port is fused at 30 amps; [see 12V Front-End Board on page 5-11](#)

### NOTICE

**Do not unlock or tamper with the MPPT Control system settings. Changes to the settings will negatively affect the system's performance and could damage your batteries.**

### NOTE

**If battery voltage falls below 11.5V, solar charging may not be effective; the batteries should be charged by other means.**

### Entertainment Systems

Your Airstream is equipped with a Bluetooth® enabled Smart TV and a Bluetooth pairing hub to play sound from a connected device. This setup lets you play TV audio through the sound system and pair the TV with Bluetooth-enabled headphones or a portable speaker.

#### Smart TV

Please refer to the TV manual in your owner's packet for additional details. Some TV's also have manuals available through the on-screen menu.

To pair the desired Bluetooth audio component (stereo/headphones/portable speaker) with your Airstream's TV, place the audio component into pairing mode. Then, enter the TV's settings menu and follow the prompts to select the desired Bluetooth device from the device list.

Blu-ray/DVD players and streaming devices can be connected to the TV via an HDMI connection on the back of the TV. Internet access is required for streaming devices; [see Pre-wire TV Antenna on page 5-16](#).

### Bluetooth Pairing Hub



The JBL unit, mounted at the entrance, lets you stream and control audio from a connected device, such as the onboard TV or your smartphone, via Bluetooth.

**Bluetooth:** Power on the JBL head unit and press the Bluetooth button. On your device, select "JBL" or a similar name from the pairing list.

**USB:** The unit also has a USB-C port for direct device connection. Power on the head unit and plug your device into the USB-C port on the front. The unit will automatically switch to USB mode and start playback. Disconnect the USB to allow Bluetooth connection.

#### Pre-wire TV Antenna

Your Airstream comes pre-wired with harnesses that run from the interior to a rooftop cap, where a TV antenna.

The TV antenna pre-wire runs from the roof mounted cap to the interior at the TV wall mount.

## Appliances

### Appliance Manufacturer's Manuals

The appliances installed in your Airstream typically include manuals provided by their respective manufacturers, which are often found in your owner's packet. If a manual didn't come with the appliance, the Certified Performance Checkout sheet in your owner's packet lists the manufacturer, model, and serial number for each appliance.

#### **⚠ WARNING**

**Always read and follow each appliance manufacturer's instructions before use. Their manuals include critical safety information and guidance on proper use and maintenance.**

The information contained in the appliance manuals supersedes any information contained in the Airstream Owner's Manual content on appliances. If you believe contradictory information on appliances is contained in this manual, or if any appliance manuals have not been provided with your Airstream, contact your dealer, the respective appliance manufacturer, or Airstream Customer Service at 937-596-6111 or email: support@airstream.com.

#### **⚠ DANGER**

**Shut OFF the LPG supply while traveling and ensure it is OFF before entering a refueling station. LPG appliances in trailers often vent to the exterior. When parked near a fuel pump, gasoline fumes can enter these vents and ignite from an open burner flame, CAUSING A FIRE OR AN EXPLOSION.**

#### **⚠ DANGER**

**Never operate the furnace/water heater in an enclosed or partially enclosed area, such as a garage, where exhaust fumes can accumulate and create a hazardous condition.**

### Appliance Maintenance

Follow the instructions and warnings noted in the respective appliance and equipment owner's manuals, as well as those mentioned below.

Annual maintenance should be conducted on propane gas appliances and equipment by an authorized dealer or repair facility.

Insects can build nests in the burners of various appliances and equipment. The burner and burner orifice of the propane gas appliances and equipment should be cleaned out by an authorized dealer or repair facility anytime circumstances or conditions warrant, but no less than on an annual basis.

## Air Conditioner

Your Airstream features a floor-mounted air conditioner with an integrated heat pump, located curbside under the bed. It can provide both heating and cooling. Refer to the manufacturer's owner's manual in your owner's packet for complete operating and maintenance instructions.

Proper voltage is essential for air conditioner performance. Low voltage is often found in older or poorly maintained parks. To minimize voltage drop, position the trailer close to the outlet near the fuse or circuit breaker box, and avoid using extension cords or adapters if possible. If an extension cord is necessary, use the shortest and heaviest gauge available.

For best performance in hot weather, park in a shaded location if available and start the air conditioner early in the day. It is easier to maintain a comfortable interior temperature than to cool the trailer once it has become hot.

The integrated heat pump can provide supplemental heating when outdoor temperatures are mild. It uses the same system as the air conditioner to transfer heat, helping maintain a comfortable interior temperature without relying solely on the LP gas furnace.

### NOTICE

**Avoid operating the air conditioner with vents blocked or closed. Restricted airflow can cause the unit to freeze up and may lead to damage. The manufacturer recommends keeping the vents open during operation to ensure proper airflow.**

## Thermostat



Please refer to the thermostat manufacturer's manual for operating instructions and to troubleshoot onboard diagnostic fault codes. The manual can be found in your owner's packet or on the manufacturer's website by scanning the QR code to visit <https://coleman-mach.com/> where you can navigate to product support for your thermostat.

## Air Conditioner Baffles and Return Filter

The intake and exhaust baffles for the unit protrude from the underside of the trailer (rear curbside). The intake pulls in outside air across the heat exchanger, and the exhaust discharges it. These openings must remain free of obstructions to maintain proper airflow and should be inspected and cleaned periodically.

Inside the trailer, the return air filter should also be kept clean to allow proper airflow. Always turn off the air conditioner before servicing the filter. To access it, lift the bed using the strap and locate the filter on the side of the unit, where it is held in place by the A/C's housing. Insert your fingers in the side recesses and pull the filter straight out.

Vacuum the filter screen to remove dust buildup. If further cleaning is required, wash the screen gently in warm water with a mild detergent, then allow it to air-dry completely before reinstalling. Do not wash the filter in a dishwasher or use chemical cleaners. Contact your dealer or Airstream directly if you need a replacement filter.

## Drain Tube

Next to the intake and exhaust baffles on the underside of the trailer is the air conditioner drain tube. It requires no regular maintenance, but you should ensure it remains free of debris or blockage. The drain tube can be inspected whenever you are checking the baffles.

### NOTICE

**The intake and exhaust baffles, drain tube, and return air filter, must remain clear at all times for the A/C unit to function properly. At the start of each stay and every 1–2 weeks during frequent use, inspect the return air filter and periodically inspect the intake and exhaust openings on the underside of the trailer and clean as necessary.**

## Combination Furnace and Water Heater

Your Airstream features a Truma Combi combination furnace and water heater, located roadside under the bed. It is operated through the CP Plus control panel. The following is only a brief overview of the system's features. Refer to the manufacturer's manuals in your owner's packet for operating, troubleshooting, and maintenance instructions. Also, [see Water Heater Maintenance and Winterizing on page 8-13](#).

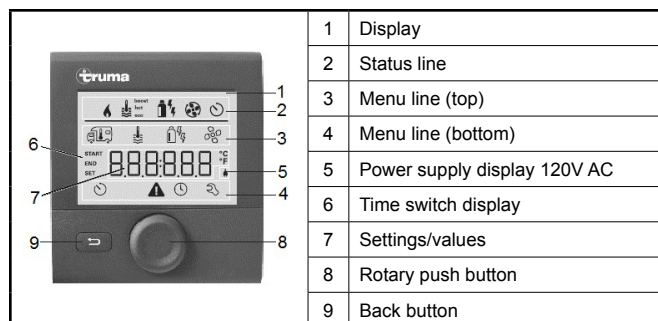
### **⚠ DANGER**

**Shut OFF the LPG supply while traveling and ensure it is OFF before entering a refueling station. The furnace/water heater vents to the exterior. When parked near a fuel pump, gasoline fumes can enter vents and ignite from a burner flame, CAUSING A FIRE OR AN EXPLOSION.**

### **⚠ DANGER**

**Never operate the furnace/water heater in an enclosed or partially enclosed area, such as a garage, where exhaust fumes can accumulate and create a hazardous condition.**

### Truma Combi CP Plus Control Panel



The furnace and water heater can be used independently, allowing the water heater to operate without running the furnace, for example, during warm weather. Similarly, the furnace can be operated alone without water in the system.

### **⚠ WARNING**

**The furnace/water heater manufacturer's manual contains critical safety information that must be reviewed prior to use. Carefully read all instructions before operating or servicing.**

The Truma system can operate on LP gas, electric, or a combination of both, depending on the selected modes.

### **NOTE**

**For all features to function - ensure the LP gas supply is turned on at the tanks, the battery disconnect switch is on, the water heater inlet and outlet valves are open, and the bypass valve is closed.**

**Heating mode:** the furnace automatically selects the proper operating level based on the difference between the desired temperature set at the control panel and the current room temperature. If there is any water in the water container, it will be heated automatically. The water temperature will not be regulated, but it will reach a maximum of 162 °F (72 °C).

### **⚠ WARNING**

**Scalding injuries caused by hot water! Water temperatures over 127 °F (52 °C) can cause severe burns or scalding and, in extreme cases, even death. Water in the hot water container can reach a temperature as high as 162°F (72°C) during operation. If there is a malfunction, the water can reach 205 °F (96 °C).**

**Hot water mode:** (only if the water container contains water). Hot water mode is ideal if only hot water is required. The lowest burner setting suffices for heating water. In hot water mode, the burner will switch off as soon as the water reaches the temperature selected in the CP plus control panel.

### **⚠ WARNING**

**NEVER store flammable material in close proximity to the exhaust outlet on the side of the trailer or near the furnace/water heater unit inside the trailer. Hot exhaust system components can cause burns if touched, even briefly.**

### **NOTICE**

**The furnace/water heater does not feature a freeze-protection function. The water container must be drained if the trailer will not be used whenever there is a risk of freezing.**

### **NOTICE**

**The furnace/water heater manufacturer does not recommend blowing air through the water heater or adding antifreeze to the water heater.**

### Ceiling Vent Fans



Review the vent fan manufacturer's instructions in your owner's packet before operating, cleaning, or servicing. Follow the labeling on the fan(s) to unlock, open, and change fan settings as desired. Certain vent fan models have a built-in safety switch that will not allow the motor to operate unless the dome is open approximately 3 inches or more. Additionally, some vent fan models feature a rain sensor. When the sensor gets wet, the dome will close.

The high-volume ceiling vent exhausts stale hot air and draws in fresh, clean air. To maximize airflow, close all other vents and open the window or door furthest from the vent fan.

#### NOTICE

**For models with a locking knob, it may be necessary to slightly rotate the knob to properly align it to the lock. Do not use excessive force when operating the locking knob.**

#### Cleaning Instructions

#### ⚠ CAUTION

**Never operate the fan with the screen removed and always disconnect power before cleaning or servicing.**

To clean the screen, turn the fan motor and battery disconnect switch OFF. The screen may be friction held or have retainer clips that need turned halfway to remove. Remove the screen and clean with a mild soap and water solution. Carefully pat dry with a soft cloth and reinstall.

#### NOTICE

**The use of certain cleaners can cause cracking and product failure. Review the vent fan manufacturer's cleaning instructions before cleaning or servicing the fan.**

### Refrigerator

Your Airstream is equipped with a 12V refrigerator that requires the battery disconnect switch to be turned on to operate. Basic operating and care information is outlined below. Refer to the refrigerator manufacturer's manual in your owner's packet (may be located inside the refrigerator) for operating instructions.

#### Operation

In some refrigerators, the thermostat control is behind one of the drawers. For typical use, set the thermostat control near the midrange setting and give the refrigerator time to cool before making further adjustments or adding refrigerated goods. Adding pre-cooled items can help maintain stable temperatures. To turn the refrigerator off, set the control to the minimum/off position (in some refrigerators, this is reached by turning a control knob past a detent).

#### Defrost and Cleaning

It will be necessary to defrost the refrigerator when frost starts to build up (about a 1/8" layer). When defrosting, the unit is shut off by setting the control to the minimum/off position.

Leave the door open with the refrigerator off. Placing a towel at the bottom of the refrigerator and on the floor in front of the unit can help catch excess moisture and runoff.

With the refrigerator defrosted, the shelves can be removed and the interior can be cleaned with a non-abrasive cleaner such as a mixture of either baking soda or vinegar in lukewarm water. To prevent mold formation and unpleasant odors, keep the appliance off with the battery disconnect switch turned off and ensure the door remains open.

#### ⚠ CAUTION

**Speeding up the defrost process with a knife or scraper is strongly discouraged due to the likelihood of rupturing the refrigerant circuit.**

### Drawer-Style Refrigerator (Optional)

The battery disconnect switch must be on to operate the drawer-style refrigerator. If equipped, the drawer-style refrigerator is located at the base of the dinette near the entry door. Refer to the refrigerator manufacturer's manual in your owner's packet (may be located inside the refrigerator) for operating instructions.

The drawer-style refrigerator has selectable modes for higher cooling performance and for reduced power consumption. It also has limited control features available through Bluetooth connectivity.

The unit also features a battery protection setting, which helps manage power draw when operating on battery. If you are using this function it is recommended you only store non-perishables such as beverages to prevent unintended spoilage.

For cleaning, turn the unit off and refer to the defrost and cleaning steps for the standard refrigerator in this section.

### Cooktop

There is little difference between the operation of home gas ranges and the trailer's cooktop. If, however, you are used to an electric range, operating confidence can be quickly gained by reading the manufacturer's instructions provided in the owner's packet. Manufacturer's service and parts manuals are also available.

#### **⚠ WARNING**

**An operation manual for the cooktop has been provided with your owner's packet. If this has not been provided with your trailer, contact the listed manufacturer to obtain. Their manual contains specialized warnings and cautions that should be reviewed prior to operating the appliance.**

### Microwave (Optional)

The trailer must be connected to external power to operate the microwave. Depending on the manufacturer, Instructions may be included in your owner's packet. Refer to the Certified Performance Checkout sheet, included in your owner's packet, for manufacturer, model, and serial number information.

## NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

# AIRSTREAM®

## Section 6 EXTERIOR

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## Exterior Features and Care

 Airstream Supply Company is your trusted source for Airstream-approved cleaners, sealants, and other care products and supplies needed to properly maintain your Airstream's exterior. Scan this QR code to visit and explore our recommended assortment of RV care products and much more at [airstreamsupplycompany.com](http://airstreamsupplycompany.com).

### Exterior Skin

We recommend the trailer be washed about every four weeks and waxed with Walbernize Super Seal, or high quality clearcoat-safe wax, in the spring and fall. In coastal and industrial areas, cleaning and waxing should be done more frequently. When traveling through winter weather, all road treatment chemicals should be removed immediately.

#### NOTICE

**Abrasive polishes or cleaning solvents such as automatic dishwasher or acid etch cleaners are too strong and should never be used. Rinse all grit from surface prior to washing. Use soft rags or wash mitts, always moving lengthwise with the grain of the trailer (washing or polishing). Never rub hard on the coating. Even the softest rag will damage the coating if excessive pressure is applied.**

#### NOTICE

**Always clean your trailer in the shade or on a cloudy day when the aluminum skin is cool.**

Oil, grease, dust, and dirt may be removed by washing with any mild non-abrasive soap or detergent. Cleaning should be followed by a thorough clean water rinse. Drying the unit with a chamois or a soft cloth may prevent spots and streaks.

After cleaning and drying, a good grade of non-abrasive automotive paste or liquid wax will increase the life of the finish, especially in coastal areas where the finish is exposed to salt air or in polluted industrial areas. It will also protect the shell from minor scratches and make subsequent cleaning easier.

It is important to remove substances such as sap, gum, resin, and asphalt as soon as possible by washing and waxing. Sunlight and time will bake-harden these materials, making them almost impossible to remove without heavy buffing. If asphalt remains on the trailer after washing, use a small amount of kerosene on a rag and wipe the spots individually, being careful not to scratch the finish.

If a substance is found on the coating that cannot be removed by normal washing procedures, Airstream recommends using DX 330 Acryli-Clean, made by PPG Industries. Follow all directions and warnings on the product container.

Acryli-Clean should be used by trained personnel only, using the proper equipment under controlled conditions. Use the Acryli-Clean as sparingly as possible to remove glue, tar, and other similar substance.

To keep your trailer looking new, paint the A-frame, LPG tanks, and rear frame periodically.

It is recommended that the caulking and sealant used in external seams and joints, such as end-shell segments and around window frames, light bezels, beltline and rub rail molding, etc., be checked once a year. If this material has dried out and become cracked or checked, or if a portion has fallen out, it should be replaced with fresh material to prevent possible rain leaks. Caulking and sealing products are available from your Airstream dealer.

### Front End Protection

The front-end exterior shell corners of your World Traveler are covered with a 3M protective film that helps guard the aluminum surface against minor road debris and abrasions. Normal exterior skin care can be applied to these areas, but avoid high-pressure washers or abrasive tools that could damage the film. The material can be replaced if damaged; see [Airstream Service and Parts on page 8-3](#).

## Acrylic Window Care

### Window Cleaning

Use only a mild soap-and-water solution or a cleaner specifically formulated for acrylic windows. Always read the product label to confirm it is safe for use on acrylic and test the cleaner in a small, inconspicuous area before full application.

### NOTICE

**The World Traveler's windows are made of acrylic and require special care when cleaning. Common household or automotive glass cleaners often contain ammonia, alcohol, or other solvents that can damage the acrylic surface. Do not use abrasive cleaners, as they will scratch or otherwise damage the acrylic.**

Use only high-quality microfiber cloths, and ensure they are clean and free of debris or grit before use, as these can scratch the acrylic surface. If using a soap-and-water mixture, lightly apply it with a spray bottle and wipe gently with a clean microfiber cloth; avoid scrubbing. For stubborn spots, allow the solution to sit for a minute before wiping. Lightly mist with distilled water to remove any soap residue, then dry gently with a clean microfiber cloth. Clean the windows regularly to prevent the buildup of dirt and grime that can cause scratching during cleaning. Avoid cleaning in direct sunlight (cleaner dries quickly, leaving streaks). In winter, ensure windows are fully dry before closing (prevents seals freeze-cracking).

### Cleaning and Treating Window Seals

Clean the window seals with a damp cloth and mild detergent every 1-2 months under normal use; monthly in dusty/coastal areas (over-cleaning accelerates seal aging). Do not use solvents or harsh cleaning chemicals, as they can damage the seals or acrylic window if contact is made (see window care above).

After cleaning, apply a water-based silicone protectant (e.g., 3M Silicone Lubricant), gently spread evenly with a finger. The silicon helps prevent the seals from hardening and cracking, and enhances the seal. Avoid petroleum-based lubricants which can corrode the rubber.

Failure to properly clean and treat the window seals may cause the windows to stick to the jamb. If a window becomes severely stuck, it should be released only by a qualified technician trained in the procedure. For more info, [see Sticking Windows on page 8-14](#).

### ⚠ WARNING

**Do not force, pry, or apply excessive pressure when opening the window. Ignoring this warning could cause the window to break and may result in personal injury.**

### NOTICE

**To prevent heat buildup between the blinds and interior window panes, do not close the blinds more than two-thirds during hot, sunny conditions or when the trailer is not in use.**

## Emergency Escape Window(s)

Emergency escape window(s) are identified by red release handles. To open, unlatch all four handles and push the window outward to provide clearance for exit. For more information; [see Emergency Exits on page 2-3](#).

### Step



To extend the step, grasp the front edge with both hands and pull out and down until it locks into place. Before travel, retract the step by lifting up and pushing it back into the fully stowed position shown above.

The step light is controlled by a switch on the wall inside the entry door. The battery disconnect switch must be ON for the light to function.

### ⚠ WARNING

**Never enter the trailer without lowering the steps. Always check that the steps are down before stepping out of the trailer. Once the steps are lowered, press down on them to make sure they are secured. Never travel with step lowered or extended.**

## Aluminum Wheels

The aluminum wheels and axle end cover come treated with a clear-coating. Keep them looking good by washing with soap and water. Do not use abrasive cleaners or polishes on coated aluminum wheels.

## Exterior

### Main Door



*The orientation of the latch assembly shown above may be inverted on your trailer, depending on the direction the door opens.*

#### **⚠ WARNING**

##### **BEFORE TOWING**

The door handle and deadbolt must both be locked from the exterior using the keys. Never lock them before shutting the door. Failure to fully lock both the handle and deadbolt using the keys in the manner described as follows may result in the door vibrating open during travel.

Close and lock the door from the exterior using the keys in the following order:

1. **DOOR HANDLE:** Insert the ROUND KEY and rotate it counterclockwise until it stops and an audible CLICK is heard; rotate the key back approximately 1/4-turn to the vertical position to remove it.
2. **DEADBOLT:** Insert the SQUARE KEY and rotate it counterclockwise until it stops and an audible CLICK is heard; rotate the key back approximately 1/4-turn to the vertical position to remove it.

Pull on the handle to verify the door is secured.

#### **⚠ WARNING**

Never transport passengers inside a trailer. Towing a trailer with passengers inside is unsafe and could result in death or serious injury.

#### **NOTICE**

To avoid damaging the door jamb and latch assembly, ensure the deadbolt is retracted before closing the door.

The main door has a hold-back that secures it to the side of the trailer when the screen door is in use. To use the hold-back, gently push the door into the spring-operated slide to latch it; slide the hold-back to release.

For lubrication and out-of-adjustment issues, [see Doors on page 8-14](#).

### Screen Door

The screen door is secured to the main door by a slide bolt-type latch. It can be operated independently by releasing the slide bolt and swinging the screen door away from the main door.

#### **NOTICE**

To avoid damage, always reattach the screen door to the main door before closing the main door.

## Awning



Follow the awning manufacturer's instructions in your owner's packet to set up your awning correctly, as shown above. As depicted, raise the rafter arm and hook it to the awning's roller shaft. Never hook the rafter arm to the spring-loaded snap stud of the main arm, as it may cause damage.

The awning's primary function is sun protection. Roll up your awning in case of heavy rain, wind, or snow. To prevent water buildup on the awning (during light rain), position one side lower than the other to create enough slope for adequate water runoff.

Clear tape is placed between the exterior skin and the awning fabric to prevent the awning fabric from rubbing on the coating, thus wearing through it. Inspect the tape every year or after a long trip. Have it replaced if it begins to wear thin.

### NOTICE

**The effects of wind and rain on any awning are unpredictable. If wind or extended periods of rain are expected, roll up the awning and secure in traveling position. Severe damage to the trailer and/or the awning may result and cannot be covered by warranty.**

### Water Service

#### Gravity Water Fill

The gravity water fill is located on the side of the trailer, behind a locked compartment. It is used to fill the fresh water tank with potable water. A small vent is located next to the port to allow air to expel from the tank as it is filled.

Use a hose that is rated as safe for drinking water (RV-Marine/FDA approved) at least 1/2-in. diameter, and made from material that is tasteless, odorless, and non-toxic. Many owners fill their tanks at home to avoid unfamiliar water sources, which may be unpleasant in taste or quality.

Run water through the hose briefly to flush out any stagnant water and debris before filling the tank. Open the exterior access door, remove the screw cap, insert the hose, and begin filling. You can monitor the water level using the Monitor Panel, or simply fill until water overflows from the inlet.

Once the tank is full, turn on the water pump. Open the hot side of a galley or lavatory faucet. The faucet will likely sputter as air is pushed through the lines. Then open a cold faucet until you have a steady stream of water. Repeat this process for any remaining faucets or water outlets to fully purge air from the system.

When the system is pressurized and all faucets are closed, the water pump will shut off automatically. It will turn on again anytime a faucet is opened. If a faucet is only partially opened, the pump may cycle on and off rapidly.

#### City Water Hookup



The city water hook-up is located on the side of the trailer. For consistent water flow and plumbing line safety, an in-line regulator limits pressure to 50 PSI.

Use a tasteless, odorless, and non-toxic high-pressure hose of at least 1/2 in. diameter designed for RV use. The city water inlet is a standard garden hose thread. We suggest you carry two lengths of hose in order to reach hookups farther away than normal, plus, to have a spare.

After hooking up the hose and turning on the city water valve provided in the park, slowly open a faucet. There will be a lot of spurts and sputtering until all the air is expelled from the trailer system. If the water heater is empty, it will take some time before all the air is expelled and a steady flow of water occurs at the faucet. Once a steady flow is achieved at one faucet the others should be opened long enough to expel the air in the lines going to them.

Your plumbing system has a built-in pressure regulator to protect your lines and faucets from extremely high pressures on some city water systems.

#### Exterior Shower/Sprayer Port



Your Airstream is equipped with a shower sprayer port on the roadside exterior. Push the provided sprayer hose's fitting into the port until the quick-connect engages. To disconnect, press on the quick-connect collar to release the hose.

#### NOTE

**When not in use, ensure the valves are in the off position. Leaving them in the on position may cause cold water to mix with hot, resulting in warm water at interior valves.**

## Electrical Service

### Shoreline Power Inlet and Cordset



Your Airstream is equipped with a SmartPlug power inlet located on the roadside exterior. Prior to establishing a connection, review the SmartPlug Cordset instructions that follow.

Before connecting power to your Airstream, plug the cordset (power cord) into the power source and check the cordset's Power Indicator Light. When the SmartPlug cordset is connected to a power source the LED light on the plug will indicate the following:

- Blue ON - normal power condition. OK to proceed.
- Blue OFF - no power condition. Check Connection and power.

In some older parks and other locations where three-pronged outlets are not available, certain precautions to ensure proper grounding and polarity must be taken. These precautions are listed below:

1. Attach the three-pronged plug to a two-pronged adapter. The third conductor line of this adapter has a short wire lead that must be grounded.
2. For proper grounding, connect the short ground lead to a grounded outlet box or to a cold water pipe. When no water pipe is available, drive a metal rod two feet into the ground and attach the ground lug to it, thus providing the unit with proper grounding.

### NOTE

**When the three-pronged plug can be used, there will be no problems with proper polarity or grounding with a properly wired shoreline outlet.**

### NOTICE

**When operating with city power, make certain that the service is 120-volt and not 240-volt.**

### 120-Volt Outlet

A 120 volt receptacle is located on the curbside exterior. Your Airstream must be plugged into a shoreline power supply for the outlet to operate.

## Chassis Features

### Axle and Running Gear Assembly

Each rubber torsion axle is aligned during manufacturing, and double-checked on a random basis. Alignment after delivery is the customer's responsibility.

Hitting chuck holes or rough railroad tracks while traveling straight will only cause misalignment after the tire has struck such objects many times. Of course, a deep enough hole can affect the alignment immediately.

The worse culprit is a curb because they are normally struck at an angle. Rear axles are occasionally damaged when people are attempting to park beside a curb while backing up their trailer.

The trailer axle(s) is bent upward in the middle. This bend is normal and is how the camber is obtained. Also, toe-in is built into the axle by very slight bends in the axle tube on each end.

Tire wear indicates misalignment. Check with your dealer for the nearest location having the proper equipment to correct the trailer's alignment.

For Toe-In and Camber Specifications, [see Rubber Torsion Axle Alignment Specifications on page 8-7](#).

### Hitch/Coupler

The EZ-Latch coupler features a simple-to-use latching mechanism. Hooking up is as easy as dropping the coupler on to your hitch ball. Simply make sure that the coupler is properly lined up with the ball, then lower the coupler. The coupler will automatically open and latch into place when lowered onto the hitch ball. To disengage coupler, pull up on latch and raise coupler off of hitch ball. Return the coupler latch to the latched position to ensure that coupler is ready to be latched again. The coupler features a strong composite handle. If the handle does get damaged or becomes missing, the coupler is still completely operational until the handle can be replaced. Replacement parts can be purchased through your Airstream Dealer. See additional information included in your owner's packet.

### ⚠ WARNING

**Always make sure coupler is properly attached and latched before towing.**

### LP Gas System

#### Liquid Petroleum Gas (LPG) Supply

##### Fill Valve



The LPG (Liquid Petroleum Gas) tanks are equipped with fill valve connections **RV Type I Acme**. The large, green, nylon swivel nut is a right-hand thread and is designed for hand operation only.

The valve features an internal spring-loaded module that will not allow gas to flow from the cylinder until a positive seal has been made at the connection. The valve outlet has 1-5/16 in. Acme threads on the outlet exterior, and female POL, left-handed threads on its interior. This feature allows for connection of the new wrenchless, right-handed, Acme RV connection while still accommodating the standard left-handed POL fittings used for filling propane cylinders.

The mating, green swivel nut and brass nipple also incorporate new features: the green nylon nut swivels on a bushing that is heat-sensitive. Between 240 and 300°F, the bushing will yield (melt) allowing the spring-loaded module in the valve to push the brass nipple back (approximately 1/4 in.), closing the module and stopping the flow of gas from the cylinder. Inside the brass nipple is a flow-limiting device designed to sense excessive gas flow. If an excessive flow is sensed, the flow-limiting device shuts the flow down to a maximum of 10 SCFH (Standard Cubic Feet per Hour) or less. This is also referred to as the bypass flow.

Bypass flow is extremely important in the proper operation of this connection. The flow-limiting device may activate if the cylinder valve is opened quickly. When all appliances are off, the bypass flow allows the pressure downstream from the flow-limiting device to equalize. When pressure is equalized, the flow-limiting device will supply normal flow to the system. Equalization occurs in approximately 5 seconds and, in most cases, goes completely unnoticed. If, however, an appliance is left on or there is a leak or open flow

in the system, the bypass pressure will not be able to equalize and allow the flow-limiting device to reopen. Symptoms of this condition would be appliances that light but have lower than normal flame or starve out from lack of gas, a substantial reduction in the flame when another appliance is operating. If this should happen, the following steps should eliminate the condition:

1. Close LPG cylinder valve.\*
2. Extinguish all flames and smoking materials.
3. Be sure all gas appliances, are off.\*
4. Open LPG cylinder valve slowly. Do not snap open.
5. Wait at least 15 seconds before lighting appliances.
6. If operational difficulties continue, there may be a leak in the system. Immediately close the LPG cylinder valve and have the system inspected by a qualified RV service technician.

\*When reconnecting a full cylinder to an auto changeover regulator, it is not necessary to shut off the appliances or close the valve of the cylinder already in service.

#### **⚠ DANGER**

**Leaking LPG may ignite, causing a fire or explosion, which could result in serious bodily injury, property damage, and/or death.**

How long a full tank of gas will last is dependent on usage. In cold weather when you are using the furnace, large amounts of hot water, and are doing extensive cooking, you will naturally use more gas than you will in warm weather when you may do limited cooking. On the average, with normal cooking and other appliance use, you can probably count on two to three weeks of service from each tank.

##### Automatic Gas Regulator



All models are equipped with a two-stage automatic change-over gas regulator that offers the convenience of automatic changeover from empty to full gas cylinders. Both tanks are connected to this regulator.

Make sure there is propane in both tanks before you start. Rotate the white knob on the top-front side of the regulator toward the cylinder you want to use first. This will be the **service** cylinder and the other will be the **reserve** cylinder. Slowly open both cylinders valves. Open both cylinder valves completely, then close about 1/4 turn. This will allow you to easily check to see if valves are open or closed. The indicator on top of the regulator will turn bright green. The indicator will stay bright green as long as there is fuel coming from the service cylinder. When the service cylinder empties, the regulator will draw fuel automatically from the reserve cylinder, providing an uninterrupted fuel flow to the system. When it switches over, the indicator will change from green to red. This red color indicates the service cylinder is empty and needs to be filled.

**⚠ DANGER**

**LPG regulators must always be installed with the diaphragm vent facing downward. Regulators that are not located in compartments have been equipped with a protective cover. Make sure 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.**

**LPG Tanks**

The following procedure outlines the proper method of removing and installing LPG bottles:

1. Turn the knob on your automatic regulator until the arrow points to the tank opposite the one to be removed. Shut off the gas valve on the tank to be removed.
2. Disconnect the rubber gas line at the tank to be removed. (The green plastic fitting is a right-hand thread and no tools should be used.)
3. Turn the large clamping T-handle counterclockwise until the hold-down bracket is loosened enough to be able to remove the tank. If your trailer is equipped with a gas tank cover, you must remove the T-handle and then remove the cover before removing the bottle

**⚠ WARNING**

**Do not remove the center hold-down rod.**

**LPG Tank Installation:**

1. Place the tanks in position on the A-frame and tank cross-member so that it rests on the upper collar of both tanks with the collar rims engaged in the grooves on the underside of the bracket. If your trailer is equipped with a tank cover, it should be positioned over the tanks next. Make sure the hold-down rod projects up through the hole in the shroud center bracket.
2. Replace the T-handle and tighten down until the tanks are held firmly in place.
3. Test fittings with liquid soap free of ammonia or chlorine, or products deigned for testing, such as Snoop® liquid leak detector.

If you have allowed both tanks to run out, air may have gotten into the lines. In this event, the air must be forced out through the lines by gas pressure before you will be able to light appliances.

**⚠ WARNING**

**Your LPG tanks must be filled as directed by the tank manufacturer. Instructions are located on a decal near the fill valve. The decal must not be defaced.**

**⚠ WARNING**

**The LPG tanks are securely mounted on the front A- frame of your trailer. If these tanks must be removed for service or replacement, it is important that they be reinstalled correctly in order to prevent any possibility of their falling off or becoming dislodged during travel.**

**⚠ WARNING**

**Use only the LPG tanks furnished with your trailer. If replacement is required, it must be a bottle of the same size and design.**

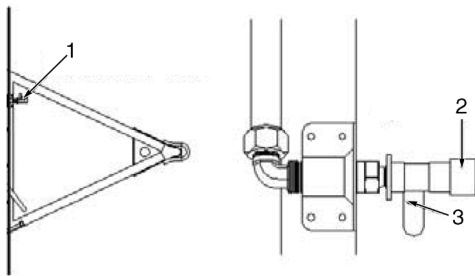
**⚠ WARNING**

**Putting a lock on LP tank covers is not recommended because it may limit access to the valve and prevent the ability to shut off LP gas flow in an emergency.**

### Exterior LPG Port

An exterior LPG port quick-connect may be installed on the hitch A-frame of your trailer. An LPG supply line is shipped with the trailer in the loose parts box. This can be used to connect a lantern or other appliance that uses a one-pound, low pressure LPG tank supply to the exterior port.

To assemble, install a male quick-connect coupler to one end of the supply hose. Then add a flare fitting to the other end of the supply hose and install a one-pound tank coupler to the flare fitting. This assembly can be installed into the appliance in place of the one pound LPG tank.



1. Exterior LPG Port
2. Quick-Connect Sleeve
3. Shutoff Lever

### Basic Rules For LPG Safety

A warning label is displayed in the cooking area reminding you to provide an adequate supply of fresh air for combustion. The amount of oxygen supply in a trailer is limited due to its compact design. When using the cooking appliances, proper ventilation will prevent dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.

#### **⚠ DANGER**

**Do not use cooking appliances for comfort heating. Cooking appliances need fresh air for safe operation. Before operation, open an overhead vent or turn on an exhaust fan and open a window.**

#### **⚠ DANGER**

**A warning label has been located near the LPG container. This label reads: DO NOT FILL CONTAINER(S) TO MORE THAN 80 PERCENT OF CAPACITY. Overfilling the LPG 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 LPG.**

#### **⚠ DANGER**

**Do not store LPG tanks within a vehicle. LPG tanks are equipped with safety devices that vent gas should the pressure become excessive.**

#### **⚠ DANGER**

**Portable fuel burning equipment, including wood and charcoal grills and stoves, shall not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle may cause fires or asphyxiation.**

#### **⚠ DANGER**

**Do not bring or store LPG tanks, gasoline, or other flammable liquids inside the vehicle because a fire or explosion may result.**

Twice a year, or after a long storage period, we suggest you take your trailer in for a checkup and cleaning of the gas-operated appliances.

#### ***If You Smell Gas***

1. Extinguish any open flames, and all smoking materials.
2. Do not touch electrical switches.
3. Shut off the gas supply at the tank valve(s) or gas supply connection.
4. Open doors and other ventilating openings.
5. Leave the area until odor clears.
6. Have the gas system checked and leakage source corrected before using again.

# AIRSTREAM®

## Section 7 TOWING

|                                              |     |                                           |     |
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### Tow Vehicle

When buying a new vehicle to tow your trailer, we suggest including towing options offered by most tow vehicle manufacturers. These include such things as a heavy-duty alternator and radiator, heavy-duty springs and shock absorbers, transmission cooler, heavy-duty fan and flasher unit, etc., for the make of the vehicle.

#### **⚠ WARNING**

**Springs that are too stiff can hinder the action of the weight equalizing hitch and prevent the transfer of weight to the front of the vehicle.**

#### **NOTICE**

**Only use springs heavy enough to support your loaded vehicle (not including trailer). Having a too harsh spring rate on your tow vehicle will only shorten the life of the tow vehicle and trailer, and will cause your trips to be less enjoyable.**

Transmissions may be manual or automatic, but an automatic transmission may prolong your tow vehicle's life and generally does a better job of controlling engine loads than does the average driver using a manual shift.

Having adequate power is very important when considering the purchase of a new vehicle or the trailer-towing capability of your present one. Auto dealers are provided with guidelines to use when helping a customer decide on a tow vehicle. Guidelines are not determined solely by the power output of the engine. The gear ratio of the differential is also a very important part of the guideline.

Inspect the tow vehicle's hitch regularly for loose bolts or nuts, cracked welds, loose ball mounts, worn parts, etc.

New trailerists often carry more food and other supplies than really needed. Remember that every item you take along is one more thing to stow and adds weight to the total load you must pull. Consolidate items in shelves, lockers, and in the refrigerator. It is better to have one full and one empty locker, than two half empty ones. Special care must be taken not to overload the front and rear ends of the trailer.

### Brakes

All trailers are equipped with Dexter Nev-R-Adjust brakes. Please follow all maintenance procedures in the Dexter user's manual provided in the owner's packet; For important inspection and maintenance requirements of the components discussed in this section, [see Axle and Brakes on page 8-7](#).

#### Electronic Brake Controller

The trailer brakes are operated by 12-volt current from your tow vehicle and must be hooked up so you have an integral system with your tow vehicle brakes. To prevent problems and ensure satisfactory braking action, install an electronic controller in line with the brakes in your tow vehicle.

An electronic controller will synchronize the trailer brakes with your tow vehicle brakes. It is designed to apply the trailer brakes with your tow vehicle brakes. Your brake controller should be adjusted to provide for a slight lead of the trailer brakes over the tow vehicle brakes.

#### **⚠ WARNING**

**Study all material provided with your particular brake control. If you do not understand the information, have the installer explain the information to you or call the manufacturer of the controller.**

#### Proper Electric Brake Use

Proper synchronization of tow vehicle to trailer braking can only be accomplished by road testing. Brake lockup, grab, or harshness is quite often due to lack of synchronization between the tow vehicle and the trailer being towed, a too-high threshold voltage (over 2 volts), or under adjusted brakes.

#### **⚠ WARNING**

**Never use your tow vehicle or trailer brakes alone to stop the combined load.**

#### **⚠ WARNING**

**The braking system should be checked and serviced by qualified, certified technicians only. Failure to do so could result in loss of control of your vehicle or the trailer, causing damage to property, injury, and/or death.**

## Breakaway Switch

In the event of an accidental separation of the tow vehicle and the trailer, the breakaway switch will set and lock the trailer brakes for a sufficient length of time to stop the trailer. The switch is activated when the wire attached to it and to the tow vehicle pulls out the small pin in the front of the unit.

When the trailer is connected to the tow vehicle, the breakaway switch loop should be attached to the permanent frame of your hitch. When disconnecting the trailer from the tow vehicle, remove wire loop from the frame. Do not remove the pin from the switch because this will apply the trailer brakes.

### **⚠ WARNING**

**Do not use the breakaway switch as a parking brake. If the battery should go dead, the trailer parking brake would no longer be applied. Failure to comply could cause damage to property, injury, and/or death.**

## Loading

When towing a trailer, you are subject to new and different challenges on the highway than you may have previously encountered. Towing a trailer is no small responsibility and should be undertaken with great care and safety first in mind. An accident with a tow vehicle and trailer can have much greater consequences than carelessness with a small car. Like an airline pilot who is responsible for expensive equipment and many lives, you should take your responsibilities as a tow vehicle driver very seriously and learn all you can about doing the job safely and well. Balancing the load and preparing the trailer and tow vehicle are critical to safe handling.

One of the most critical aspects of safely towing a trailer is knowing the weights involved and where they are placed. The first thing to determine is how much is being towed and confirming that it is within the capacities of the equipment being used. Determining where the load is placed is critical to the way your rig will handle on the road.

Know what your trailer weighs loaded. Load your trailer including water, propane, etc and take it to a public scales. Weigh each axle of your vehicle. Refer to your axle weight and tire limits to see if you are within a safe range; [see Specifications on page 4-3](#). Total all axle weights, ensuring you are below the Gross Vehicle Weight Rating (GVWR).

Make sure your load is balanced. Do not load too much on one side. A balanced load is much easier to tow or drive. Front to back balance is also important. Step back and look at your trailer, making sure that there is not too much weight on the hitch, or on the rear of the trailer. Secure all items, as loose items can cause damage and become a safety issue. The Cargo Carrying Capacity tag shown below is installed on every trailer and can be found on the inside of the screen door on your trailer.

RECREATIONAL VEHICLE TRAILER CARGO CARRYING CAPACITY  
VIN #####  
THE WEIGHT OF CARGO SHOULD NEVER EXCEED  
XXX kg or XXX lbs  
CAUTION  
A full load of water equals XXX kg or XXX lbs of cargo @ 1 kg/L (8.3 lb/gal)

Airstream weighs the trailer as finished to arrive at the trailer's weight. That number is subtracted from the GVWR of the trailer and listed under THE WEIGHT OF CARGO SHOULD NEVER EXCEED on the tag. The total weight of any and all cargo, including dealer modifications or additions, water, and propane should never exceed the number listed.

As cargo is added, removed, or shifts in location, the weight on the axle(s) and hitch will change. Also, the hitch and axle weights will change as a consequence of the weight of the LP tank(s) diminishing from use of propane, and/or the transfer of weight as a consequence of water in the fresh water tank being used and transferred to the waste holding tanks. In shorter units, rear bath models especially, when the LP tanks are empty and fresh water has been transferred to the waste holding tanks, the reduction in hitch weight may be significant. For this reason, we recommend that the waste tanks be emptied before traveling.

When loading the trailer, keep the following in mind:

- GVWR
- Gross Axle Weight Rating (GAWR)
- Tire Weight Rating
- Cargo

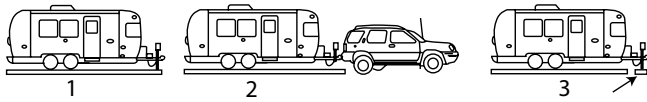
### **⚠ WARNING**

**Never exceed these critical weight limits/ratings. Your safety depends on not overloading the trailer, axles, and tires**

# Towing

## Weighing Your Trailer

The illustration below shows how to weigh the trailer on scales.



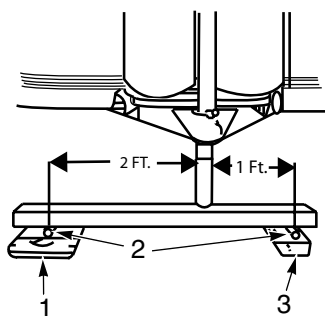
1. Trailer's total weight, cannot exceed GVWR.
2. Trailer's weight on axles cannot exceed GAWR.
3. Weight on trailer tongue.

To determine that the GAWR is not exceeded, it is necessary to load all of your allowable personal cargo and variable weights. Then hitch the trailer to the tow vehicle with load equalizing hitch properly adjusted.

Chock wheels and place the trailer on a scale with both axles only on the scale (see illustration). If the weight on the axles exceeds the axle system's GAWR, then some of the personal cargo must be redistributed forward in order to place some of this weight on the tongue.

The tongue weight should be 10 to 15% of the trailer's total weight, and must not exceed the tow vehicle's or the hitch's maximum weight rating. To determine tongue load, unhitch tow vehicle and place the tongue hitch post on a scale. The trailer must be properly loaded as determined above, with your allowable personal cargo and variable weights.

Use a scale, such as a bathroom scale, that has a lower weight limit than your tongue load, to check the tongue weight by using the following method (see illustration).



1. Bathroom Scale
2. Pipe
3. Wood Support

Place a piece of wood of approximately the same thickness as the bathroom scales on the ground in line with the trailer hitch jack as shown. It should be so spaced that a short piece of pipe or other round piece will lay exactly one foot from the centerline of the jack extension.

Place the scales so that another round piece can be exactly two feet from the centerline of the jack extension in the other direction. Place a 4 x 4 piece of wood on the two round pieces and screw the jack extension down on the top of the 4 x 4 until the tongue of the trailer is supported by it. Multiply the scale reading by three. This will be the tongue weight of your trailer. If you exceed the capacity of the bathroom scales, increase the two-foot dimension to three or four more feet, but always multiply the scale reading by the total number of feet between the wood and scales.

### NOTE

**Be sure trailer is level when reading scales.**

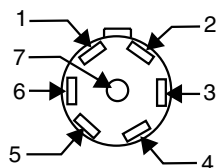
## Hitching Up

The process of hitching up your trailer is something that will become almost second nature with practice. The following section includes proper hitch load distribution. Proper training on connecting your trailer to a tow vehicle is essential for safety. Please see your dealer or other qualified personnel for instruction on the proper hitching of your trailer. Safety chain use on the hitch is required in all states.

### ⚠ WARNING

**Always make sure coupler is properly attached and latched before towing, and that safety chains are properly attached. Safety chain use on the hitch is required in all states.**

## 7-Way Plug



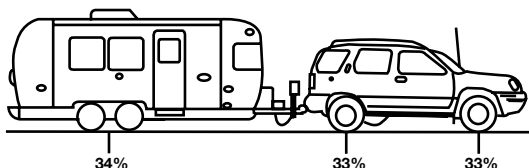
1. Black, 12-Volt (+)
2. Green, Clearance Lights/Taillights
3. Red, Left Turn/Stop
4. White, 12-Volt (-)
5. Blue, Brake
6. Brown, Right Turn/Stop
7. Blank

### NOTE

The 7-Way Plug is spliced to the main harness in the area of the 12-volt distribution panel in front of the trailer.

## Equalizing Hitch Load Distribution

When a trailer is properly hitched up to a tow vehicle with a load equalizing hitch, approximately 1/3 of the trailer's tongue weight will be on the trailer's axles and 2/3 will be transferred to the tow vehicle. One third of this weight transfer will be carried by the front wheels and 1/3 by the rear wheels of the tow vehicle (See illustration). Thus, the tire load of each wheel on the tow vehicle will be increased by 1/6 of the trailer's tongue weight. The tire air pressure of the tow vehicle should be increased to compensate for this additional weight. Refer to the vehicle's owner's manual for this information.



### ⚠ WARNING

The tongue weight should be approximately 10 to 15% of the trailer's total weight. Under no condition should it exceed the tow vehicle's hitch rating. Please refer to the tow vehicle's documentation for your vehicle's hitch rating information.

## Wireless Observation System

Your travel trailer is equipped with a Wireless Observation system consisting of a camera mounted at the rear of the trailer and a wireless monitor for your tow vehicle. This system will allow you to see what is behind you while towing and provide visibility when backing up the trailer.

### ⚠ WARNING

Carefully read and understand all manufacturer's instructions provided in your owner's packet prior to operating.

## Towing

### Safety

The transporting of people in the trailer puts their lives at risk and may be illegal. The trailer does not have seat belts, therefore, it is not designed to carry passengers.

### ⚠ WARNING

Never transport passengers inside a trailer. Towing a trailer with passengers inside is unsafe and could result in death or serious injury.

### Securing the Door

Before towing your travel trailer, secure the main door by locking both the door handle and deadbolt from the exterior using the keys. For instructions on how to properly lock the door, [see Main Door on page 6-4](#).

### ⚠ WARNING

#### BEFORE TOWING

The door handle and deadbolt must both be locked from the exterior using the keys. Never lock them before shutting the door. Failure to fully lock both the handle and deadbolt using the keys may result in the door vibrating open during travel.

### Practice

We want every Airstream owner to be a safe and courteous driver. A few hours of towing practice in a large, empty parking lot will make pulling your trailer over the road much easier. Mark off two corners of the parking lot for left and right turns. These corners may also be used to practice backing and parking.

## General Information

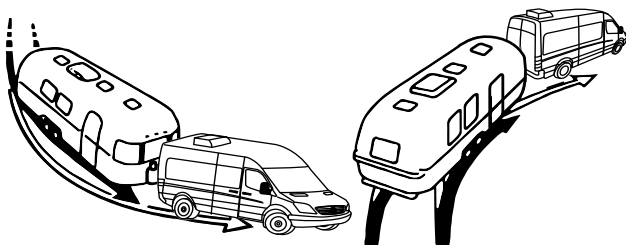
After thoroughly inspecting your hitch, brakes, and tires, you should be ready to tow. Check traffic, signal when you are about to pull away, and start slowly. Look often in your mirrors, and observe the action of the trailer, then carefully move into the proper lane of traffic. Remember that the trailer wheels will not follow the path of the tow vehicle wheels, therefore, wider turns are necessary when turning to the left or to the right.

### ⚠ WARNING

**Truck or trailer type fender, door grip, and rear view mirrors are a must for maximum visibility and required by law in most states.**

## Tracking Observation

Observe that the tracks made by the trailer wheels are distinctly different from those made by the tow vehicle. Studying this will make it easier for you to correct mistakes.



## Cooling System Overload

When towing, you might encounter a temporary cooling system overload during severe conditions, such as:

- Hot days when pulling on a long grade
- When slowing down after higher speed driving
- Driving with long, idle periods in traffic jams

If the tow vehicle's temperature gauge, or indicator light indicates overheating, and the air conditioner is on, turn it off, pull over in a safe place, and apply the emergency brake. Increase the engine idle speed. Lift the engine hood and check for fluid leaks at the radiator overflow outlet. Ensure all drive belts are intact and the radiator fan is turning. If you have a problem, have it fixed at the next opportunity. If there is no problem, the light should go off, or temperature should come down within one minute. Proceed on the highway a little slower; resume normal driving after 10 minutes.

### ⚠ WARNING

**Never open a radiator cap when the tow vehicle is hot. Check the coolant level when the vehicle is cool.**

## Downhill and Non-level Driving

When going downhill in dry weather, downshift so engine compression will slow the whole rig down. Take dips and depressions in the road slowly and do not resume normal driving speeds until you are sure that the trailer wheels are clear of the dip.

### ⚠ WARNING

**On slippery pavement, do not use engine drag to help slow down as this may cause the rear wheels of the tow vehicle to skid. On icy pavement, drive slowly and, if you feel the tow vehicle skidding, gently apply the trailer brakes only. This will bring the tow vehicle and trailer back into a single line. Chains do not help trailer wheels.**

## Off-Road Towing

When driving in mud and sand, let the momentum carry the rig through. Apply power gently and use as little as possible. Stay in the tracks of the vehicle ahead and keep the tow vehicle in the highest possible gear. If you get stuck, it is best to tow out the entire rig together without unhitching.

## When Being Passed

Despite the best hitch, you will notice that whenever a large bus or truck overtakes your rig, the displaced air first pushes the trailer rear slightly to the right and then affects the front. It may be necessary to steer very slightly, momentarily, toward the bus or truck to help compensate for the sway induced by the passing vehicle. Do not apply the vehicle brakes, as this can tend to exaggerate the situation. You may find, however, that briefly applying the trailer brakes with your manual control will help eliminate sway.

On a two-lane road, cars may line up behind you because you travel at a lower speed. It is both courteous and sensible, if you are able, to signal, pull onto the shoulder, and let them pass. Your trailer is designed to be towed easily at any legal speed, so if you are not careful, you may be inclined to forget it is there.

## Passing

On freeways or expressways, pick the lane you want and try to stay in it. Always maintain plenty of space between you and the car ahead, at least the length of the tow vehicle plus trailer, for every ten miles per hour. Remember that in order to pass another vehicle you will need longer to accelerate. You must also allow for the length of the trailer when returning to the right hand lane.

## Backing Up

When backing up, the important thing to remember is to do everything slowly and to correct immediately if you see the trailer turning the wrong way. Concentrate on the rear of the trailer. With your tow vehicle and trailer in a straight line, back up slowly and turn the bottom of the steering wheel in the direction you want the trailer to go. Watch out the window or in the mirror until the rear of the trailer is pointing in the desired direction. Your tow vehicle will be following the trailer in an arc. Straighten the tow vehicle and trailer by turning the steering wheel more sharply, and then, when they are in line, straighten the steering wheel.

Always try to back to your left because the visibility is much better. When you don't make it on the first try, it is usually much easier to pull forward to your original position and start over, or at least pull forward until the rig is straight, and then start backing.

If your spouse or traveling companion normally directs you when backing, they should position themselves forward of the tow vehicle so the driver can easily see them. Their directions should always indicate to the driver the direction the rear of the trailer should go.

A little practice in a parking lot, with the person giving directions, can save a lot of frustration when backing into a campsite.

## Stopped On a Hill

Refer to the following warning if stopped on a hill for a prolonged period of time.

### **⚠ WARNING**

**Chock the trailer wheels when stopping on a hill or slope. Leaving your tow vehicle in gear is not enough for standstill safety. Do not use trailer brakes as parking brakes.**

## Controlling Sway or Fishtailing

Sway or fishtailing is the sideways action of a trailer caused by external forces. It is common for travel trailers to sway in response to strong winds, crosswinds, when passed by or passing a semi-tractor and trailer, or driving downhill.

### **⚠ WARNING**

**Excessive sway or fishtailing of your travel trailer can lead to the rollover of the trailer and tow vehicle. Serious injury or death can occur. It is important that you read and understand the information in this section.**

Sway or fishtailing of your recreation vehicle can be controlled and is primarily impacted by four factors:

- Equipment
- Tongue Weight
- Driving
- Corrective Measures

### **Equipment**

When hitched together, the trailer and the tow vehicle must be level. The tires of both the trailer and tow vehicle should be in good condition and properly inflated to their recommended pressures.

Braking is a very important factor in vehicle control; [see Brakes on page 7-2](#) and [see Electronic Brake Controller on page 7-2](#).

We recommend a friction sway damper or hitch with built-in sway control be provided for your trailer. Please consult your dealer regarding this equipment. For more information, [see Sway Control Device on page 7-8](#).

### **Tongue weight**

For information about tongue weight, [see Weighing Your Trailer on page 7-4](#) and [see Equalizing Hitch Load Distribution on page 7-5](#).

### **Driving**

This is the most important component. The tendency for the vehicle to sway increases with speed therefore, obey all speed limits and reduce speed during inclement weather or windy conditions.

## Corrective Measures

If sway occurs, the following techniques should be used:

1. Slow down immediately, remove your foot from the accelerator. Avoid using the tow vehicle brakes unless there is a danger of collision. Reduce speed gradually whenever possible. If you can do so safely, use the brake hand controller to gently and progressively apply the trailer brakes. This will help to keep the vehicles aligned. Practice using the brake hand controller on a deserted parking lot. Do not wait until an emergency occurs before using it. Location of the brake hand controller is important and should be made easily accessible.
2. Steer as little as possible while maintaining control of the vehicle. Because of natural reaction lag time, quick steering movements to counter trailer sway will actually cause increased sway and loss of control. Keep both hands on the wheel. Hold the wheel as straight as possible until stability is regained.
3. Once the swaying is under control, stop as soon as possible. Check tire pressures, cargo weight distribution, and look for any signs of mechanical failure. Travel at reduced speeds that permit full control until the problem can be identified and corrected.

### **⚠ WARNING**

**Do not jam on the brakes or attempt to press on the accelerator to speed your way out of the fishtailing. Both actions make the situation worse and could cause severe injury or death.**

## Sway Control Device

Although Airstream has not intruded into the hitch manufacturer's field of expertise and performed formal testing, we find the vast majority of Airstream owners purchase sway-control devices.

When passed by large trucks or when exposed to sudden crosswinds, the trailer will be pushed and this action will be felt in the tow vehicle. It is our understanding that the sway control device will reduce the amount of movement, make towing more comfortable, and add some safety. Follow the directions of the sway control manufacturer when having the device installed and when using it.

# AIRSTREAM®

## Section 8 MAINTENANCE

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# Maintenance

## Maintenance Schedule

### ⚠ WARNING

Failure to maintain your trailer can cause premature and unexpected parts breakage and/or erratic operation that may be hazardous.

### NOTICE

See appliance manufacturer's literature for required appliance maintenance intervals.

#### Every 1-2 weeks with frequent use or as needed

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| Air Conditioner | Check A/C filter/baffles/drain tube; <a href="#">see Air Conditioner on page 5-18</a> . |
|-----------------|-----------------------------------------------------------------------------------------|

#### Every 1,000 miles or 60 days

|                          |                                                                       |
|--------------------------|-----------------------------------------------------------------------|
| Escape Window            | Check operation of latches and upper hinge.                           |
| Battery*                 | Check water level (lead acid only).                                   |
| Smoke Alarm, CO Detector | Test and replace battery as required.                                 |
| Tires                    | Check tire pressure, <a href="#">see Specifications on page 4-3</a> . |
| Hitch                    | Check for loose bolts or unusual wear.                                |
| GFCI Outlets             | Test and record                                                       |

\*As a battery ages and becomes less efficient, the water level should be checked more often and replenished only with distilled water.

#### Every 5,000 miles or 90 days

|                     |                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------|
| Main Door Latch     | Lubricate with dry graphite                                                                 |
| Exterior Door Locks | Lubricate with dry graphite.                                                                |
| Exterior Hinges     | Lubricate with light household oil.                                                         |
| LPG Hold-Down       | Lubricate with light household oil.                                                         |
| LPG Regulator       | Check bottom vent for obstructions.                                                         |
| Wheel Lug Nuts      | Torque to specifications, <a href="#">see Specifications on page 4-3</a>                    |
| Breakaway Switch    | Pull pin and lubricate with household oil, <a href="#">see Breakaway Switch on page 8-7</a> |
| 7-Way Plug          | Spray with contact cleaner.                                                                 |

#### Every 5,000 miles or 90 days

|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| Hitch Ball                | Lubricate with hitch ball lube or wheel bearing grease. |
| Exhaust Fans              | Clean fan blades and wash filter.                       |
| Roof Vent Elevator Screws | Lubricate with light household oil.                     |
| Main Door Step            | Lubricate and inspect moving parts.                     |

#### Every 10,000 miles or 6 months

|                         |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|
| Tires                   | Inspect and rotate.                                                                 |
| Spare Tire Carrier      | Lubricate moving parts.                                                             |
| Windows, and Door Seals | Clean and treat; <a href="#">see Cleaning and Treating Window Seals on page 6-3</a> |
| Exterior                | Wax                                                                                 |
| Escape Window           | Lubricate latches with silicone grease every 6 months or as needed.                 |

#### Every 12,000 miles or every year

|                        |                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------|
| Brakes                 | Inspect or replace as necessary every year or 12,000 miles; <a href="#">see Brakes on page 8-7</a> .     |
| Wheel Bearings         | Clean and repack every year or 12,000 miles; <a href="#">see Wheel Bearing Maintenance on page 8-7</a> . |
| Battery                | Clean, neutralize, and coat terminals with petroleum jelly. (lead acid only).                            |
| LPG Tanks              | Have purged by LPG supplier every year.                                                                  |
| Seams                  | Check and reseal exterior seams, windows, lights, and vents as needed.                                   |
| Hitch Coupler and Ball | Ensure all parts operate freely. Replace any component if worn or damaged.                               |
| Interior Cabinetry     | Visual Inspection of latches Locks, Hinges and Slides. Silicone Spray as needed.                         |
| Hitch Jack             | Inspect and lubricate                                                                                    |
| Water Heater           | For maintenance items; <a href="#">see Water Heater Maintenance and Winterizing on page 8-13</a>         |
| Fresh Water System     | Sanitize fresh water system; <a href="#">see Sanitizing on page 8-9</a>                                  |

## Airstream Service and Parts

Please contact an Airstream dealer service center to schedule maintenance and obtain replacement parts; see [Service Centers on page 3-5](#).

### NOTE

**Availability of parts and service may vary. Some parts may occasionally be delayed, back-ordered, or replaced with compatible alternatives.**

Replacement parts for dealer service and repair and common items such as filters and hardware can be found in the parts book specific to your Airstream model.



Airstream parts books are posted on our website as soon as they're finalized, typically around the midpoint of model year production. Scan this QR code or visit <https://www.airstream.com> and navigate to the owner's section to locate the parts book for your model Airstream.



Airstream Supply Company is your trusted source for Airstream-approved cleaners, polishes, and other care products and supplies needed to properly maintain your Airstream's interior and exterior. Scan this QR code to visit and explore our assortment of RV care products and camping supplies at <https://airstreamsupplycompany.com>.

## Tires

Your trailer is equipped at the factory with name brand trailer tires. Most Airstream dealers cannot make adjustments to tires. An Airstream, or tire dealer that handles that particular brand, must do this. If you experience tire problems, contact the nearest dealer.

### Tire Changing

To change a tire with a jack, see the label affixed to the underbelly located to the rear of the wheels. This label reads **JACK** with an arrow pointing to a plate riveted to the mainframe rail where the jack head must be placed.

### Jack Location



**Airstream does not supply a jack with the trailer. The Jack location is under the trailer and marked as shown in the photo.**

### ⚠ WARNING

**Do not exceed the maximum speed rating of the tires installed on your trailer. Failure to heed this warning could cause catastrophic tire failure resulting in property damage, personal injury, and/or death. Refer to the Tire Safety Information Addendum in your Owner's packet for more information.**

### ⚠ WARNING

**Never attempt to change any tire on the trailer without securely chocking the trailer's remaining wheels. Never position yourself in a manner where a raised trailer can come down on you if it should become dislodged from a jack or ramp.**

### ⚠ WARNING

**When removing aluminum-forged wheels from spindle, it is very important to mark them to ensure the wheel is placed in the same position of the drum when reinstalling. If the aluminum-forged wheel is to be mounted on a different drum, it is important to sand all loose corrosion from the mating surfaces.**

### ⚠ WARNING

#### WHEEL SEPARATION CAN OCCUR:

1. When removing/reinstalling wheels: torque lug nuts at the beginning of the first trip, and at 5, 25, and 50 miles.
2. Thereafter, check lug nuts before each trip.
3. Following winter storage, check lug nuts before beginning a trip
4. Following excessive braking, inspect and torque.

### ⚠ WARNING

**Use a torque wrench to tighten lug nuts. Tightening by hand or with an impact wrench is not recommended. For lug nut torque values, see [Specifications on page 4-3](#).**

## Tire Load and Inflation Information

Maintaining proper tire inflation pressure is essential for both tire safety and performance.

### Proper Tire Inflation

The level of air in your tires affects your vehicle's overall performance. A maximum inflation pressure specification is found on the trailer's exterior on a metal tag riveted to the lower front, roadside of the trailer, as well as on the original equipment tires.

Air pressure should be checked based on the load on each individual tire. Cold Inflation Pressure should be adjusted to handle the maximum tire load, and all tires on the axle should carry the same inflation pressure. *Cold tire inflation pressure* is the tire pressure checked in the morning before you drive more than a few miles or before rising ambient temperatures or the sun's radiant heat affects it.

### NOTICE

**If tire pressure adjustments are being considered due to actual loading conditions, consult the tire manufacturer's official load and inflation tables to determine the appropriate pressure. Never exceed the maximum pressure rating stamped on the tire sidewall.**

### Underinflated Tires

Underinflation brings a higher risk of damage due to road hazards, reduce casing durability, cause a loss in fuel economy, and will result in uneven or irregular tire wear. Severe underinflation brings about an increased risk of tread separation, handling difficulties, and possible tire failure, caused by overheating.

When minimum inflation pressure requirements are not met, tire durability and optimum operating conditions are compromised. Tire inflation pressure should always meet the guidelines for vehicle weight.

Observe the following:

- It may be necessary to inflate your tires at a truck stop or truck service center in order to achieve adequate air pressure for your trailer's needs.
- Only permanent air seal metal valve caps should be used.
- Be safe - if a tire has been run in a 20% underinflated condition, it must be dismantled and inspected by a trained professional. It should not be aired up without a full inspection or without using a safety cage. Use a calibrated gauge. If your tire is rated for higher inflation pressures, a special gauge will be required designed for larger tires.

### ⚠ WARNING

**Due to RISK OF EXPLOSION damaged tires or tires run with more than a 20% underinflation (approximate) must be dismantled, inspected by a qualified technician, and should not be inflated without using a safety cage.**

- Do not bleed air from warm tires to reduce pressure buildup.
- Do not inflate tires to cold PSI rating beyond rim specifications.

### How Overloading Affects Your Tires

Tire pressure is what enables your trailer tire to support loads, thus, overloading can have serious consequences. Too much weight can cause stress on the suspension system components, brake failure, handling and steering problems, irregular tire wear, and possible tire failure. If you discover that your tires cannot handle the load, lighten the weight of the load on your tires.

### Weighing Your Trailer Or Towed Vehicle

Since a trailer or towed vehicle adds to the load on the tires, it is crucial to properly weigh towed vehicles; [see Loading on page 7-3](#) and [see Weighing Your Trailer on page 7-4](#)

### Tire Care

The most important function of tires are to provide traction while moving, and grip when steering or stopping. The tires on your trailer are designed for highway use and must be properly maintained in order to maximize tire life, as well to provide a safe mode of transportation.

### Tire Care Tips

To reduce the risk of tire failure, we strongly recommend the following:

1. Check the pressure in your tires, including your spare, at least monthly when the tires are cool (after the vehicle has stopped three hours and then driven less than one mile). Do not reduce pressure when tires are hot. Use a tire gauge to check pressure and maintain it at the recommended level.
2. Never overload your tires. Heed the maximum load-carrying capability of your tires.
3. Check your tires frequently for scrapes, bulges, separations, cuts, or snags resulting from use. See your tire dealer immediately if any such condition is discovered.

4. Never operate your vehicle in excess of lawful speeds or the maximum speeds justified by driving conditions, or in excess of speeds recommended for the tires you are using.
5. Make every effort to avoid running over objects that may damage the tire through impact or cutting, such as chuck holes, glass, metal, etc.
6. Never drive on smooth tires. Tires should be removed when 2/32 in. of tread depth remains. In most states it is illegal to drive with less than 2/32 in. remaining tread depth.
7. Park out of the sun whenever possible when in warm climates. In desert regions, use tire covers to prevent ultra violet light deterioration to tires.

### Tire Inspection and Storage

Before taking your trailer on a trip or when removing it from an extended storage period, make it a practice to inspect the overall condition of your tires. Check for any type of condition or damage that might result in failure. A thorough check should include both inside and outside sidewalls, tread area and the condition of hardware such as valve stems, valve caps, and wheels. The tread should be checked for any unusual wear, cracking, penetrations and/or cuts. An uneven wear pattern can indicate misalignment or worn suspension parts.

Since many RVs are used seasonally and sometimes stored for extended times, it is possible that tires will take many years to wear out. Tires, as any rubber product, will age over time. If tires show cracking in the sidewall or tread surfaces that are more than 2/32 in. deep, they should be replaced before your next trip or vacation. Store your RV in a cool dry area away from major heat sources and extreme cold. An enclosed storage area is best with no exposure to electromagnetic sources such as generators or transformers. If you must keep your trailer outside, cover your tires from direct sunlight. Take your trailer to your tire dealer for service to check or correct any of these conditions.

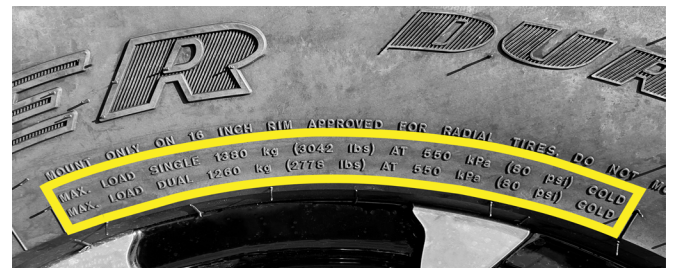
### Tire and Wheel Replacement

It is possible to replace your tires with a different size, in some instances, to increase your load capacity with a different inflation pressure. If there is a reason to replace your tires with a different size, make sure the following checks are made before the purchase:

- Does the replacement tire have the load capacity that is needed for my trailer and will it fit properly inside the wheel well?

- Will the overall diameter difference affect the braking system?
- Is the increase in air pressure compatible with the maximum rated pressure stamped on the rim?

Most trailers are towed at or near maximum loads during hot weather and then left idle for months. In normal use, oils in the tire come to the surface during flexing and protect the rubber from ultraviolet light. But when the trailer tires sit idle too long, natural aging may cause the rubber to crack prematurely, especially in the sidewall area. Trailer tires over five years old should be inspected by a tire expert for cracking and replaced even if it has no apparent tread wear.



### Choosing a Tire

Every tire sold in the United States has a tire rating stamped on the sidewall that shows a tire's maximum load at a defined pressure. Use the example above to help locate the max load rating in pounds (lbs) and tire pressure in pounds per square inch (psi) on your original equipment tires. Choose a tire with equal load ratings. For tire size, inflation and load specifications, [see Specifications on page 4-3](#).

### Max Load Single vs. Max Load Dual

**Max Load Single** refers to the tire rating for applications with only one wheel on each end of a single axle. **Max Load Dual** refers to the tire rating for dually wheels, where there are two wheels on each end of an axle for a total of 4 wheels on a single axle.

Don't confuse the terms Single and Dual with Tandem. A tandem axle refers to trailers with two axles, one behind the other.

For Airstream Travel Trailers, refer to the Max Load Single rating.

### **⚠ WARNING**

**Do not mismatch wheels and tires.**

# Maintenance

Axle systems are installed with hubs and drums that are compatible with many wheels used in the recreational vehicle industry that have matching bolt patterns. If the original manufacturer-installed equipment is in need of replacement, the wheel manufacturer should be contacted for proof of compatibility prior to replacement and use.

Customers replacing original equipment that has not been tested for compatibility must ensure the replacements are compatible to the hub and drum assembly installed. Such elements of compatibility include, but are not limited to:

- Diameter of the hub-mounting surface.
- Stud length and diameter.
- Location and number of studs.
- Center hole diameter for the wheel.
- Wheel-mounting offset from the rim center.
- Rated capacity of the wheel.
- Wheel fastener torque.
- Wheel nut size and shape.
- Impact of any added wheel accessories (such as decorative center caps) that could affect proper seating of the wheel to the hub surface.

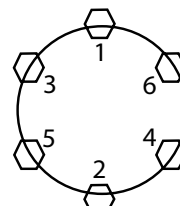
Refer to the following table for wheel specifications.

| Wheel Specifications          |             |            |
|-------------------------------|-------------|------------|
| Size/Center Size<br>In Inches | Lug Pattern | Model      |
| 15 x 6 / 5.5                  | 6           | All Models |
| All wheels have zero offset.  |             |            |

## Lug Nut Torquing

Trailer wheels must carry much higher loads per wheel than passenger car or truck wheels. Each wheel may carry 1000 pounds and higher. Furthermore, wheels on tandem axle trailers do not steer, and are subjected to very high side load stress whenever the trailer makes a tight turn. When going around corners, especially on slow, tight turns, the wheels are subject to very strong side loads. This tends to flex the wheel and gradually loosen the wheel nuts. Although the materials and manufacturing methods are maximized for this kind of service, these extra loads can cause stress, which can result in flexing and loosening of wheel nuts.

Before each trip and any time a wheel is replaced, be sure to tighten the wheel nuts, following one of the lug-pattern sequences shown below. If the wheel was replaced, check the torque every 5, 25, and 50 miles.



If you notice wheel wobbling, or hear a rattling sound coming from a wheel, especially at low speeds, a wheel lug nut may have come loose. This problem is usually caused by improper tightening, or by faulty or damaged lug bolt threads.

If suspicious of a loose lug nut, safely stop vehicle as soon as possible. Put up warning devices and check the tightness of all the lug nuts. Tighten all lug nuts to the specified torque, using a torque wrench. If stud threads are damaged or faulty, get professional service help.

## ⚠ WARNING

Use a torque wrench to tighten lug nuts. Tightening by hand or with an impact wrench is not recommended. For lug nut torque values, see [Specifications on page 4-3](#)

## Spare Tire Carrier

The spare tire for Airstreams is stored under the front of the trailer. The front handle of the tire carrier is a 1-in. tube protruding out from under the front A-frame on the curbside. It is secured by a bracket and bolt along the inside of the A-frame rail. Removing the bolts allows the front on the tire carrier to be lowered and the spare tire to be removed.

## ⚠ WARNING

The spare tire carrier is designed to carry an undamaged tire and rim assembly of the type and size specified for the trailer. Never place a severely damaged wheel assembly with a damaged partial tire, or a rim only, in the carrier.

## Axle and Brakes

 The following sections provide an overview of the inspection and maintenance requirements of the axle and brake components, as well as requirements for the breakaway switch. Consult the Dexter Operation Maintenance and Service Manual for detailed axle and brake information, and required maintenance intervals. It can be found by scanning the QR code above or visiting <https://www.dexteraxle.com/>.

### **⚠ WARNING**

**Read and follow all warnings and cautions and adhere to all required maintenance intervals found in the axle and brake component manufacturer's manual. Failure to properly maintain these components could lead to an accident, resulting in serious injury or death.**

## Axles and Bearings

### **⚠ WARNING**

**Never allow heat to be applied to the axle tube because the rubber providing the spring torsion action will be severely damaged.**

### *Rubber Torsion Axle Alignment Specifications*

| Toe-In and Camber Specifications      |                              |
|---------------------------------------|------------------------------|
| Toe-In each side 1/16 in.             | Tolerance 1/8 in. + or -     |
| Camber each side 3/4 degrees positive | Tolerance 3/4 degrees + or - |

### *Wheel Bearing Maintenance*

With normal use, servicing at 12-month or 12,000-mile intervals is usually adequate (whichever occurs first). With increased usage, this work should be done more frequently as required. When packing bearings by hand, place a glob of grease in the palm of one hand and push the large end of the bearing down into the grease. Keep turning the bearing around and forcing it down through the grease until the grease is extruded up through the opposite end. Wipe the extra grease in your hand around the outside of the bearing. It is not necessary to fill the hub and dust cap with grease.

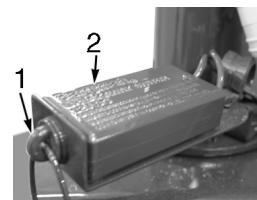
1. Jack the trailer at the marked jack location pad behind the axle on the mainframe and remove the wheel.
2. Remove the grease cap, spindle nut retainer, spindle nut, washer, bearings, and hub.
3. Lay the hub down with the inside grease seal down. Knock out the inner bearing and grease seal using a wood or plastic dowel and hammer.

4. Clean all parts thoroughly with a suitable solvent or kerosene.
5. Inspect all bearings and races for chips or roughness of any kind. Any damaged component must be replaced.
6. Pack bearings with a good grease (No 2 grade-265 ASTM penetration or equivalent).
7. Install the inner bearing.
8. Install a new grease seal in the hub or rotor using a wooden or rawhide mallet.
9. Install the hub and drum on the spindle.
10. Install the outer bearing, washer and spindle nut.
11. While rotating the wheel, tighten the spindle nut with a 12" wrench until there is a slight tension. Then back off one notch and install the retainer. There should now be from .001" to .010" end play in the hub. If not, back off one notch.
12. Check the lug nuts at 5, 25 miles and recheck at 50 miles of travel. For torque specifications, [see Specifications on page 4-3](#).

## Brakes

Brakes must be inspected and serviced immediately if performance loss is indicated. With normal use, servicing at 12-month or 12,000-mile intervals is usually adequate (whichever occurs first). With increased usage, this work should be done more frequently as required.

## Breakaway Switch



1. Pin
2. Breakaway Switch

To prevent corrosion within the breakaway switch, pull the pin out and spray the inside of the switch through the hole with an electric contact cleaner (such as Spra-Kleen). Applying a drop of light household oil on the pin and the groove near the base of the pin will allow the pin to operate freely. Immediately reinsert pin. Perform this procedure every 90 days.

### **⚠ WARNING**

**Allow no more than 20 to 30 seconds pin separation as damage to brake magnets may occur.**

## Water Pump

### Water Pump Access Location

The water pump and strainer are under the curbside bed in front of the A/C unit. The winterization kit is located here as well.

### Strainer Cleaning



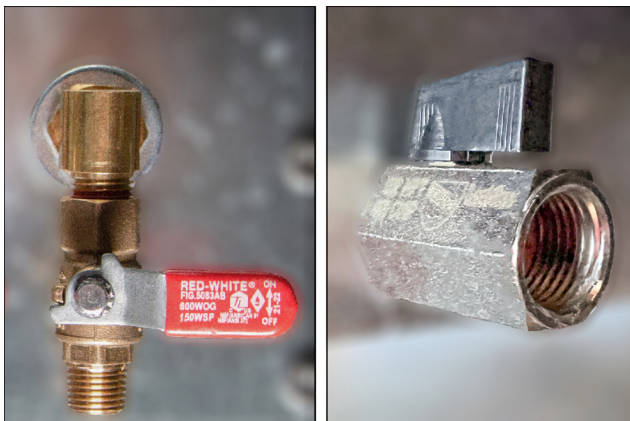
Locate the strainer housing (on the water line leading to the water pump inlet). Remove the transparent bowl (turn counterclockwise), and carefully pull out the strainer/screen. Clean and rinse with water (use a household detergent if necessary). Reinstall the strainer and bowl, being careful not to damage the seal. The bowl collects sediment and should be positioned under the housing as depicted above. Check for leaks prior to resuming normal operation.

## Fresh Water System

### Drain Valves

Valves can typically be identified as OPEN when the valve handle is aligned with the fitting or pipe.

### Drain Valve Locations



The external stainless steel fresh water tank drain (example shown right) and fresh water system low-point drain valves (example shown left) can be found on the roadside under the trailer, on the galvanized steel tank pan. In addition, the water heater has a drain valve which is next to the water heater, roadside, under the bed. For draining; [see Water Heater Maintenance and Winterizing on page 8-13](#).

### Fresh Water Tank Draining

Pumping the water out with the self-contained water pump can empty the fresh water tank. Simply turn on the pump switch and open a couple of faucets until the water will no longer drain out, or use the stainless steel valve located on the freshwater tank pan. Be sure to watch closely and turn the pump off when the tank runs dry.

### NOTICE

**Do not let the pump run dry for extended periods of time as this could damage the pump.**

## Sanitizing

Airstream recommends sanitizing the fresh water system before and after storage, after installing new components, and whenever contamination is suspected. How often to sanitize—and what solution to use—depends on how frequently your Airstream is used, the taste and quality of the water, and the environments it has been exposed to, such as extreme heat, high humidity, or questionable water sources.

Use a sanitizer that effectively disinfects without damaging system components. While bleach is widely used for its ability to kill bacteria, viruses, fungi, and some protozoa, it can also corrode metal and degrade seals. In some configurations, susceptible components like the water heater cannot be bypassed, meaning the solution will circulate through the entire system. To avoid damage, Airstream generally recommends using an RV-specific fresh water system cleaner formulated to be safe for all fresh water system components. Follow the product's instructions for dilution and contact time.

If contamination is severe, bleach may be necessary. Refer to your water heater's manual for additional information. If bleach is not recommended, bypass the water heater whenever possible, and flush the system thoroughly when finished. Use the standard sanitization formula: 0.13 ounces of household bleach per gallon of water, or 1 milliliter per liter. This produces a 50 ppm free chlorine solution, consistent with RVIA ANSI A119.2 and widely accepted potable water disinfection practices.

Refer to the sanitization procedure that follows to introduce the solution into the system:

1. Determine the amount of solution you need for your fresh water tank's capacity; [see Specifications on page 4-3](#).
2. Pour a one gallon concentrate into the fresh water tank. Immediately fill the tank using a city water connection to dilute the concentrate to the proper sanitization ratio.
3. Open all faucets (hot and cold) allowing the water to run until the distinct odor of chlorine is detected.
4. Leave the solution in for the product's recommended contact time (4 hours for bleach). Drain the tank, refill from the city water connection, and drain again. Repeat until the solution is flushed out.

## Drain and Waste System

Your Airstream's drain and waste system includes holding tanks made from corrosion-free molded plastic. For additional detail, [see Drain and Waste System on page 5-6](#). All tanks are emptied through a dump valve equipped with "T" handles, allowing you to individually open and drain each tank through a shared outlet and attached sewer hose.

All sink and shower drains empty into the gray water holding tank. The toilet empties into the waste water holding tank.

Check your monitor panel frequently. The toilet bowl cannot be emptied when the waste water holding tank is full. If the gray water holding tank is overfilled, drain water will back up into the shower floor pan, resulting in unsanitary conditions.

Draining the tanks as described in this section will protect them from freezing during storage. When traveling in sub-freezing temperatures, use a winterizing solution designed for RV use. Follow the directions on the container.

### **⚠ CAUTION**

**Failure to monitor holding tank levels could result in unsanitary overflow.**

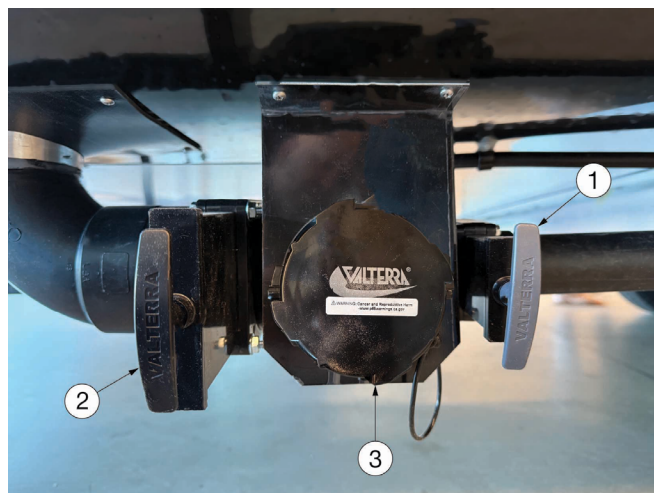
Never drain the tanks at any place other than an approved dumping station. Almost all campgrounds will have a dump station. Online resources and park directories like Woodalls and Rand McNally usually list dumping stations.

### **NOTICE**

**Do not use a pipe snake on clogged drains; it could damage internal drain system components.**

### **NOTICE**

**Never flush hard or solid objects, sanitary napkins, facial tissue, or paper towels down the toilet and into the holding tank. They can get caught in the dump valve mechanism. Colored toilet tissue is slower to dissolve than white. Most motorhome accessory stores offer tissue designed for RVs that will dissolve.**



1. Gray Water Tank Valve (grey T-handle)
2. Waste Water Tank Valve (black T-handle)
3. Drain Cap (Drain Hose Hookup)

There is a light to the left of the dump valves that can be turned on to assist with nighttime operation. The switch is located on the lens.

## Emptying the Holding Tanks

Dump the waste water tank before the gray water tank. Doing so will help rinse the valve outlet and hose with gray tank water. Should solids accumulate, close the dump valve, fill the tank about half full with water, and then tow the trailer for a few miles. The turbulence of the water will usually dissolve the solids into suspension so the tank can be drained. To empty the tank(s):

1. Attach the sewer hose by pressing the bayonet fitting onto the dump valve outlet; rotate clockwise until secure.
2. Attach the outlet end of the hose to the disposal site; position the hose on a slope to ensure it drains completely.
3. Attach a water hose to the waste tank flush inlet on the side of the trailer (do not use the fresh water tank hose for this purpose).
4. Pull the waste tank dump valve handle outward to the stop and wait for the tank to fully drain.
5. Close the dump valve and flush the waste tank; [see Waste Tank Flush on page 8-11](#).
6. Pull the gray tank dump valve handle outward to the stop and wait for the tank to fully drain.
7. Close the dump valve and replace the bayonet ring cap before traveling.

## Extended Stays

The system is designed to provide complete self-contained toilet facilities, while on the road or parked, without being connected to a sewage line. It may also be used in the stationary position while connected to a sewage hose. Keep the dump valves closed with either method and empty the tanks when they are nearly full. The idea is to send a large volume of water through the tanks and hose at the same time to float solids away.

After the sewage tank has been emptied, close the dump valves and put approximately five gallons of water in the sewage holding tank using the waste tank flush inlet. This will spray the interior of the tank with water and help prevent solids from building up in the sewage holding tank. The addition of a deodorizing agent like Aqua-Kem® will help prevent odors.

## Waste Tank Flush



Your Airstream has a garden hose-style connection to flush the waste water holding tank. Airstream advises flushing the waste tank each time it is emptied to prevent clogging of the water jets and accumulating waste solids inside the tank. Start by emptying the waste tank at an approved dump station and close the dump valve. To flush the tank:

1. Attach a water hose to the flush inlet (do not use the fresh water tank hose for this purpose).
2. Turn the water on and monitor the waste tank level. A spray head with multiple holes will spray the tank's interior surface. Fill the tank about half full and turn the water off.
3. Empty the waste holding tank; [see Emptying the Holding Tanks on page 8-11](#).
4. Close the waste holding tank valve and repeat this process until the water runs clear.

### NOTICE

**Use the waste tank flush regularly to keep the holes on the spray head from becoming clogged.**

## Drain System Cleaning

The only cleaning agents that can be used without causing harm to the system are household ammonia and tri-sodium phosphate in small quantities. Do not use any product that contains any portion of petroleum distillates. This type of product will attack the rubber seals of your toilet and dump valve. Also, do not use any dish detergent or abrasive cleaners. All products should be marked as approved for ABS drainage systems.

## Winterizing and Storage

The main consideration in winterizing your trailer is to guard against freeze damage to the fresh water system, including lines, tank, and pump; the waste drain system, including traps and tanks; the water heater, and the batteries.

When storing your trailer for short or long periods, use the same precautions as you would in your home regarding perishables, ventilation, and rain protection. In addition, for prolonged storage periods, flush out all the drain lines and the holding tanks. Also, drain the entire water system, including the water heater and the water storage tank, using the following instructions.

### Winterization Procedure

Below are the basic steps to completing the winterization process. It can be time-consuming and challenging to drain all of the water from the system. These tasks require an average mechanical skill level. If you are unsure of your ability to remove all the water from the system successfully, please seek assistance.

The goal is to get all the water out of the system to prevent freeze damage. We recommend allowing the system to drain for several days. You will need an adapter with an air regulator to connect an air compressor to the city water inlet and access to an air compressor.

1. Empty and flush the holding tanks at a dump station (*this is very important as the sewage in the tanks, if frozen, could seriously damage the tanks*); [see Emptying the Holding Tanks on page 8-11](#).
2. Level the trailer from side to side and front to rear. Open all plumbing fixtures (showers and faucets, internal and external).
3. Turn the water pump switch to the ON position to expel water from the storage tank
4. Turn the pump switch OFF as soon as all of the water has been removed from the storage tank.
5. Open all drain valves; [see Drain Valve Locations on page 8-8](#)).
6. While the water is draining from the system, open and flush the toilet-flushing valve. Operate the shower head while holding it down inside the tub and drain all water from the flexible hose.
7. Disconnect the outlet hose from the water pump. Turn the pump on until all the water is expelled. This water, about 1/2 cup, can be caught in a towel or rag.
8. Reconnect the water pump outlet.

9. Lower the front of the trailer as far as the jack will allow and let the trailer sit until water ceases to drain (no droplets are forming), then crank the jack up as high as it will go until water ceases to drain.
10. Close the water heater inlet and outlet valves and open the water heater bypass valve.

### NOTICE

**The furnace/water heater manufacturer does not recommend blowing air through the water heater or adding antifreeze to the water heater. Air pressure and antifreeze will cause damage to internal components. Refer to the manufacturer's user manual for winterization instructions.**

11. Using the adapter mentioned at the beginning, apply, at max, 50 lbs. of air pressure to the city water inlet until only air is coming out of the faucets. You may need to open and close faucets one at a time and repeat this step several times to force out trapped water.
12. Pour a cup of non-toxic RV antifreeze into the lavatory sink and tub drains to prevent trap freeze-up.
13. Remove the batteries from your trailer and store in a cool, dry place where there is no danger of freezing. It is very important for optimum life of a battery to check it periodically and to keep it fully charged.

### NOTICE

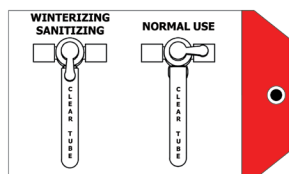
**Remove all RV antifreeze spillage from all drain and faucet parts after winterizing. Failure to do so could damage the plumbing fixture's finish. Do not use water to rinse antifreeze down the drain as it will dilute the antifreeze.**

It is highly recommended to add a non-toxic RV antifreeze (approved for drinking water systems) to the fresh water system using the pre-installed Winterization Kit. Even after blowing out the lines, small amounts of water may remain trapped in the fresh water system. If there is any doubt that all water has been fully cleared, this step is highly recommended.

Before starting, read the label on your RV antifreeze for instructions specific to the product you're using. You may need 2–3 gallons to fill the entire system, so plan accordingly. It's helpful to have another person assist by opening and closing faucets and shower head while you perform the procedure.

The Winterization Kit is near the water pump, [see Water Pump Access Location on page 8-8](#). For drain valve locations, [see Drain Valve Locations on page 8-8](#).

1. Reconnect all lines and shower heads that were disconnected in the previous steps.
2. Close all the drain valves.
3. Antifreeze cannot be introduced into the water heater. Ensure the water heater inlet and outlet valves are closed, and the water heater bypass valve is open as mentioned in earlier steps.
4. Open the sink and shower drains if they are closed.
5. Open all the faucets, including the shower head faucet handle and, if equipped, the external shower head.

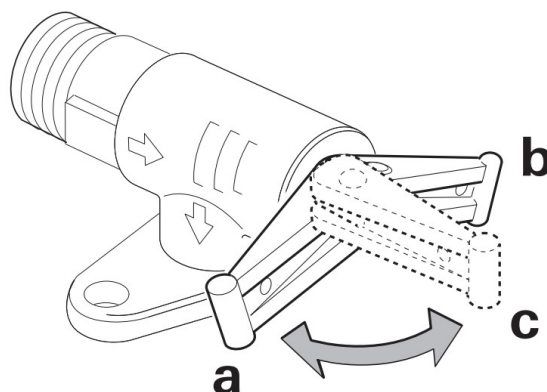


6. Go to the winterization kit and turn the valve handle to the winterizing position as indicated on the tag attached to the kit (shown above).
7. Uncoil the hose attached to the kit, remove the hose cap, and insert the hose down to the bottom of the RV antifreeze container.
8. Turn the pump switch on and run it until antifreeze starts coming out of the faucets. Once antifreeze runs from one tap, turn it off and continue to the next one. Move from one fixture to the next, shutting them off as you go until all the lines are full. As you empty each antifreeze container, turn the pump off, transition to a full container, and turn the pump back on to continue.
9. Allow the antifreeze to flow down drains. Flush the toilet and allow antifreeze to flow down the toilet. If equipped, operate the toilet hand sprayer until antifreeze is coming out. Work the hand shower sprayer while holding it down in the tub until antifreeze is coming out, and if equipped, do the same with the external shower head. Any remaining antifreeze can be dumped down a drain.
10. Shut the pump off once all the lines are full.
11. Open all the faucets and leave them open.
12. Turn the winterization kit valve back to the normal use position, place the cap back on the hose, and coil it back up for storage.

### Water Heater Maintenance and Winterizing

#### **⚠ WARNING**

**Never actuate the drain lever if the water heater is under pressure and/or still hot. Use caution when operating the drainage valve to avoid potential scalding injury from hot water.**



Once a year, operate the relief valve/drain manually to ensure water channels are clear. Every three years, the pressure relief valve should be inspected by a qualified technician. Please refer to the manufacturer's manual for required maintenance intervals. The furnace/water heater requires periodic service (e.g. decalcification). To drain the water heater, turn off the water pump and ensure the system is cool and not operational. Move the lever on the end of the valve to position (c) as depicted above. Water will drain via the drainage socket. To close the valve for normal operation, move the lever to (a or b); [see Drain Valve Locations on page 8-8](#).

#### **NOTICE**

**When traveling to a location where freezing conditions are likely, or when storing the trailer, be sure to drain all water from the water system and water heater.**

#### **NOTICE**

**If warranty service is required, use only a service location recommended by the furnace manufacturer or your Airstream dealer.**

#### **NOTICE**

**The furnace/water heater manufacturer does not recommend blowing air through the water heater or adding antifreeze to the water heater. Air pressure and antifreeze will cause damage to internal components. Refer to the manufacturer's user manual for winterization instructions.**

## Restoring Service After Winter

1. Re-install the fully charged batteries.
2. Close the dump valve, all water faucets, and fresh water tank drain.
3. Add water to the fresh water tank.
4. Turn on the water pump.
5. Open and close the faucets one at a time until the water runs clear at all faucets signaling RV non-toxic antifreeze is flushed out of lines. Go back and recheck water clarity at all faucets.
6. Turn off the water pump.
7. Hook up to a city water supply, open the faucets again, and recheck water clarity.
8. Once the system is flushed of all RV Antifreeze, the water heater can be used. Close the water heater drain valve. Open the water heater inlet and outlet valves and close the water heater bypass valve.

## Doors

### Main Door Lubrication

Apply a little paraffin or grease to the striker pockets and a slight amount of household oil to the lock mechanisms to keep the locks operating smoothly. Also, lubricate the hinge pins periodically with household oil. Use the lubricant sparingly and remove any excess from exterior skin immediately.

### Main Door Adjustment

Main door adjustment can be affected by:

- The trailer being improperly leveled (causing twisting of trailer body/shell).\*
- Striker bolt alignment being out of adjustment, (striker bolt is adjustable).
- Screen door being out of adjustment, resulting in a situation of the door rubbing the frame, or not closing flush (which will create pressure on the door).
- Main door has come open at some point introducing a change to the contour of the door frame (check for sheared rivets on interior skin of door).

\* When using the stabilizers (for eliminating movement-not leveling) on your Airstream be sure to check the fit of your main door before and after extending stabilizers. The fit of the main door can be affected if trailer is not level side to side and front to back.

## Windows

### Sticking Windows

Forcing the window open may cause the window to shatter. Always follow the guidelines below for releasing a stuck window. If the window is severely stuck, refer to a service center to have it released.

1. Unlatch the window latches securing the windows on the interior.
2. Apply some 3M silicone lubricant to a nylon wedge window tool.
3. Starting in the corner, carefully tuck the end of the nylon tool under the acrylic glass and gently slide to the opposite end.

### WARNING

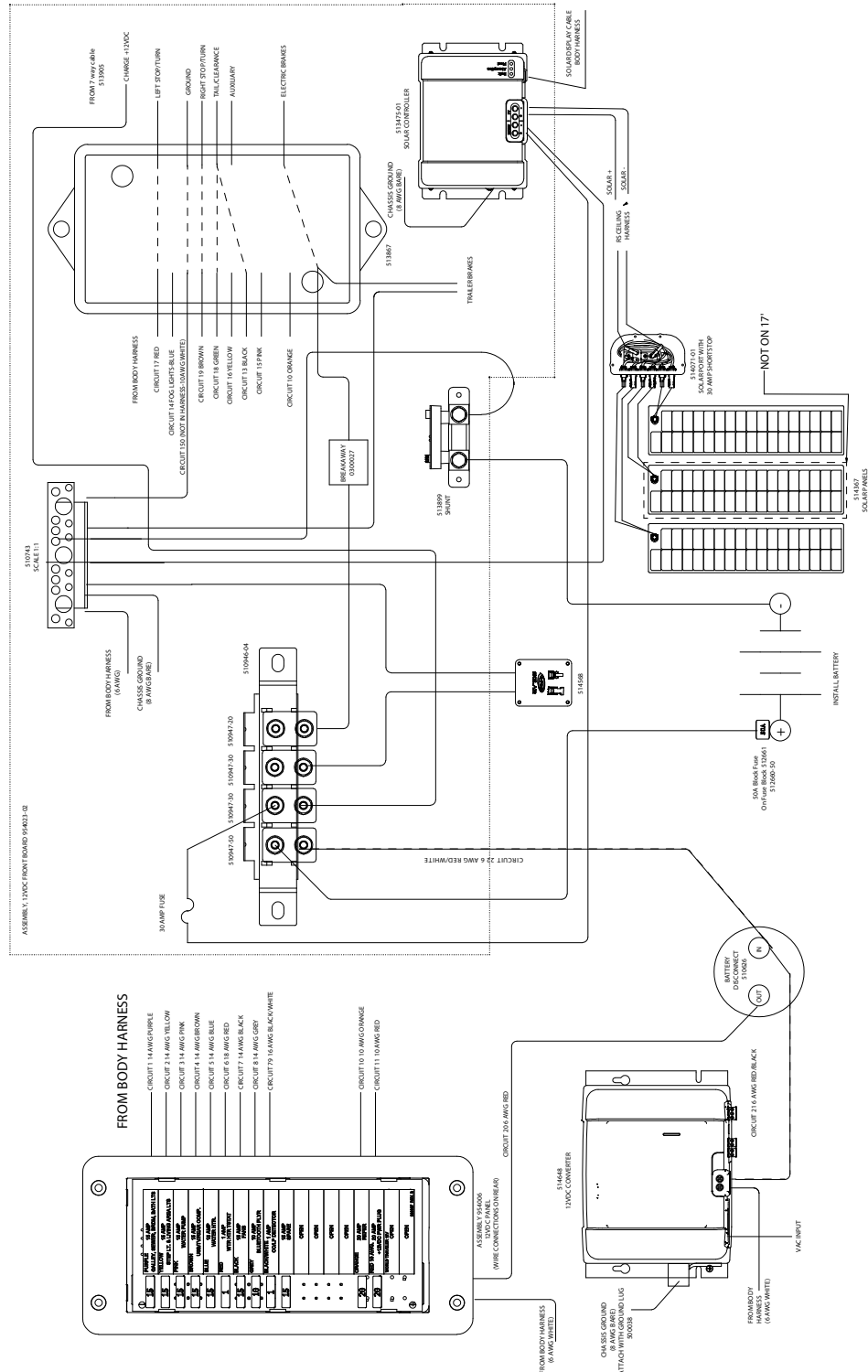
**Do not force, pry, or apply excessive pressure when opening the window. Ignoring this warning could cause the window to break and may result in personal injury.**

4. Once the window is released, clean the window and seals, and treat the seals with silicone. For more information on how to properly clean the windows and seals, and how to treat the seals; [see Acrylic Window Care on page 6-3.](#)

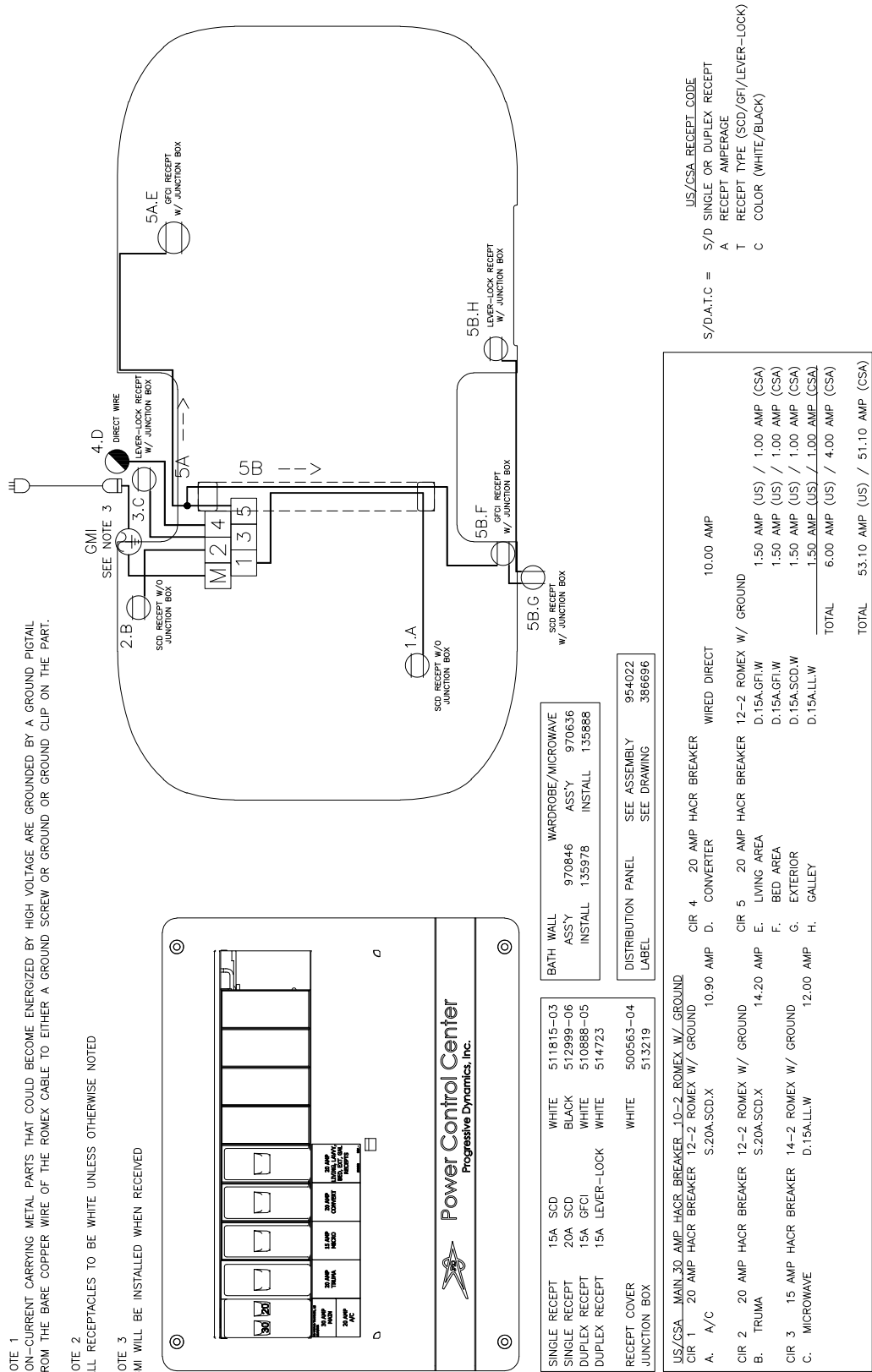
## Electrical Diagrams

The following electrical diagrams are representative of the National Electric Code (NEC) and Canadian Standards Association (CSA). All circuits are NEC with the exception of CSA circuits as specified in each respective table.

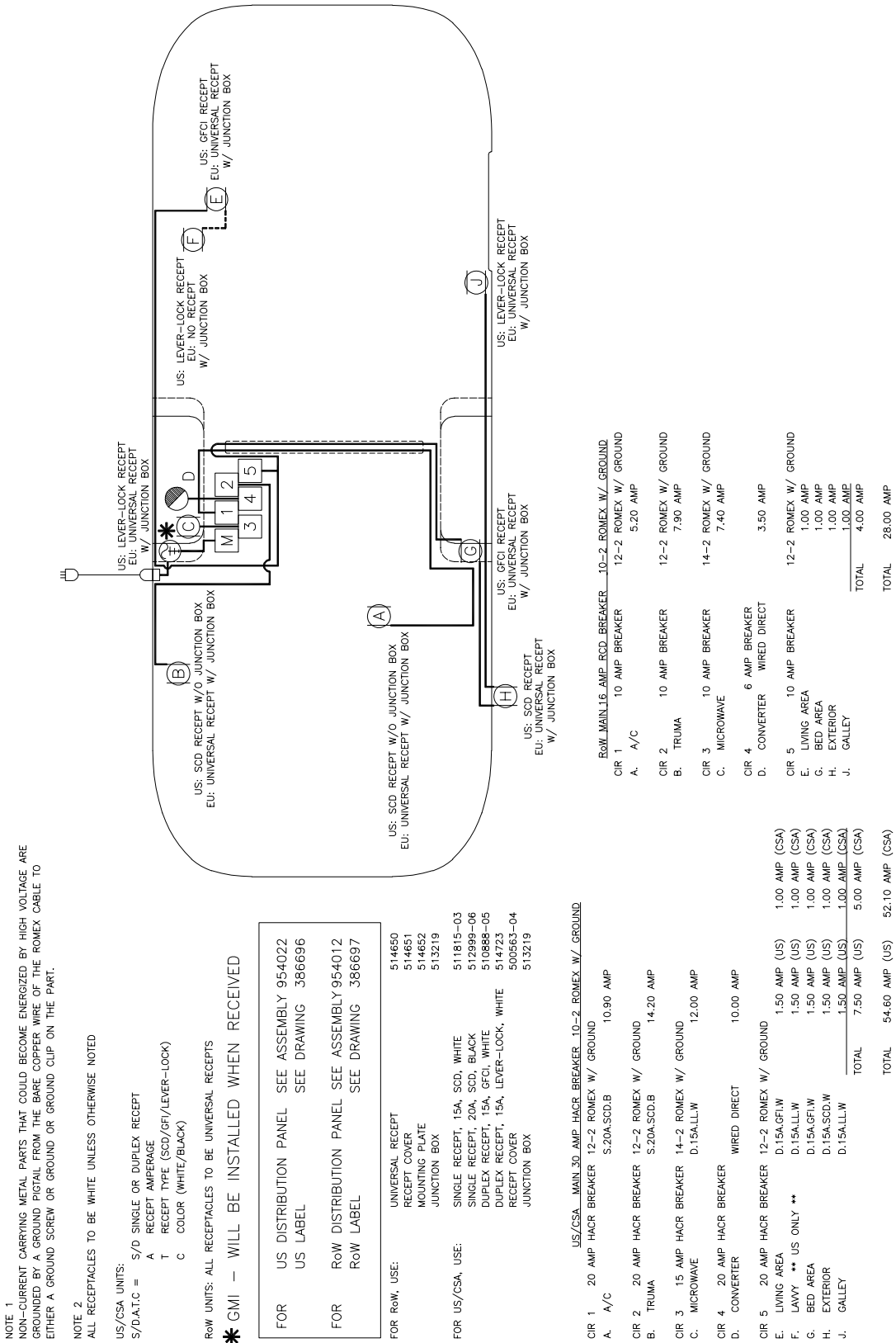
### 12-Volt Main Schematic



17RB - 120-Volt/30 Amp Diagram

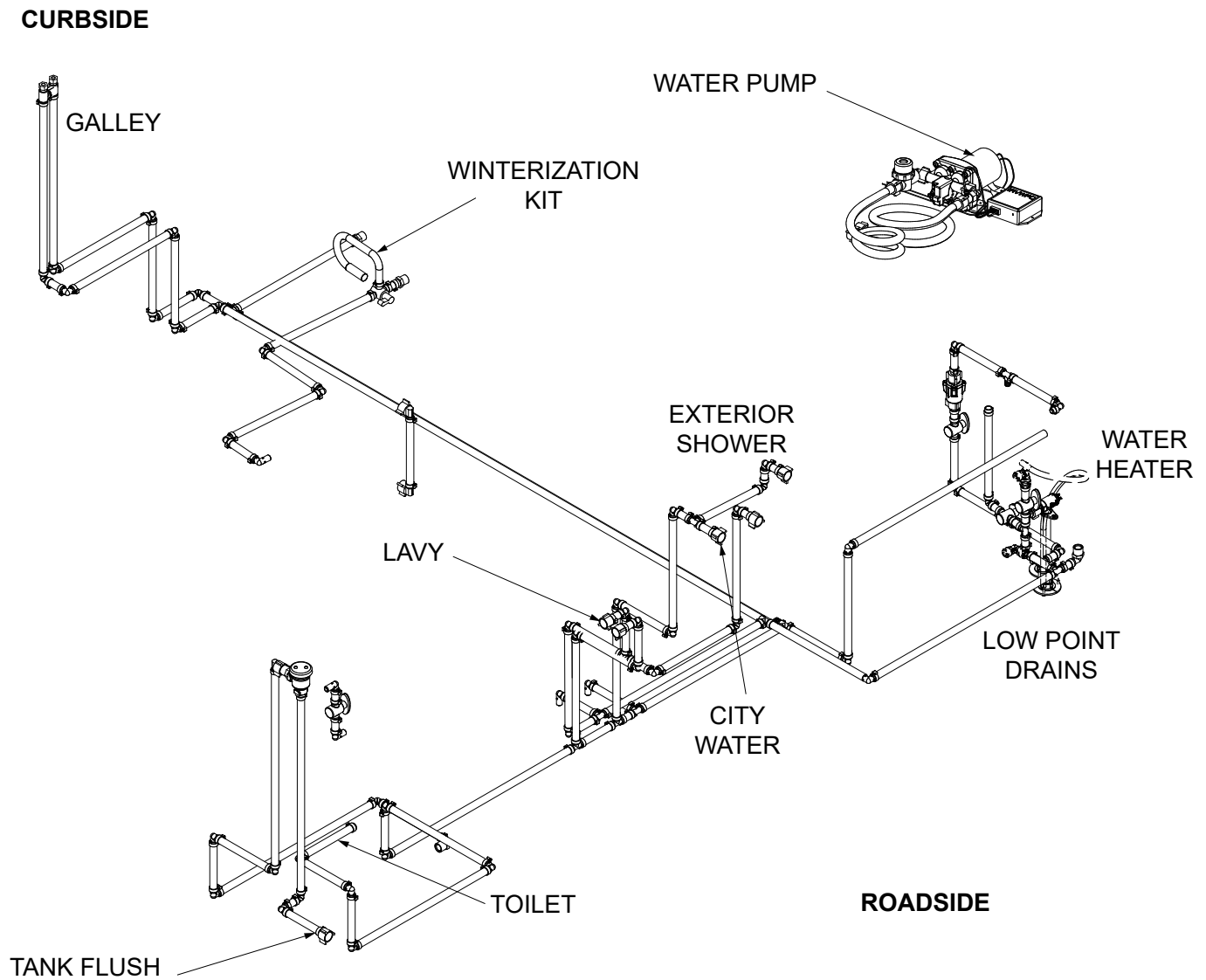


# 22RB - 120-Volt/30 Amp Diagram



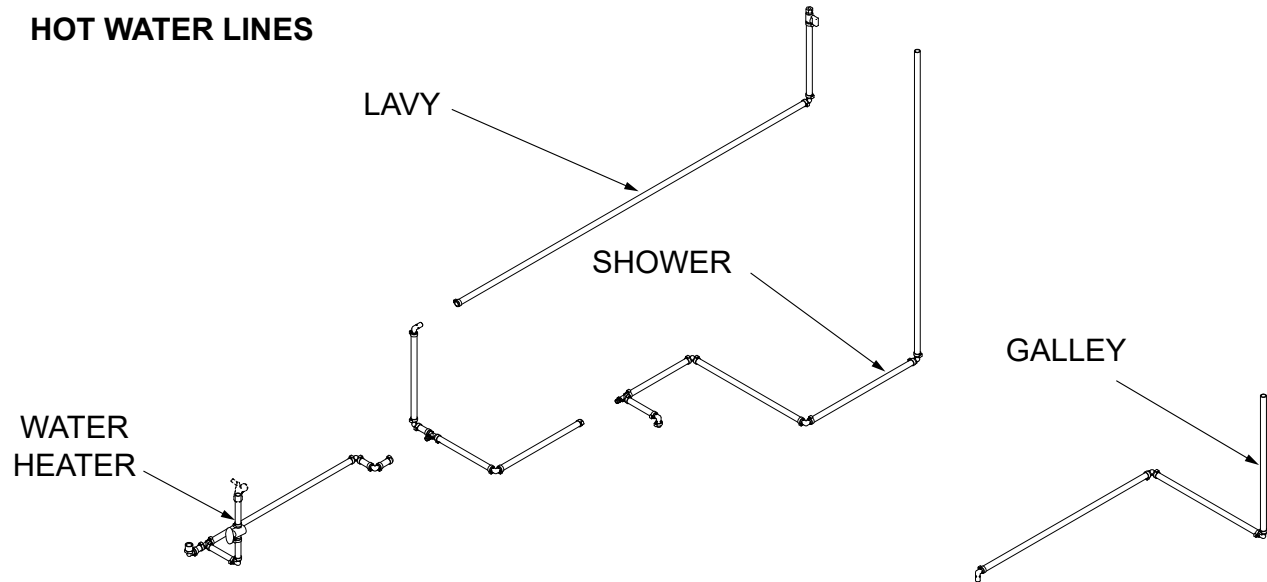
## Fresh Water Layouts

## 17RB - Fresh Water Layout

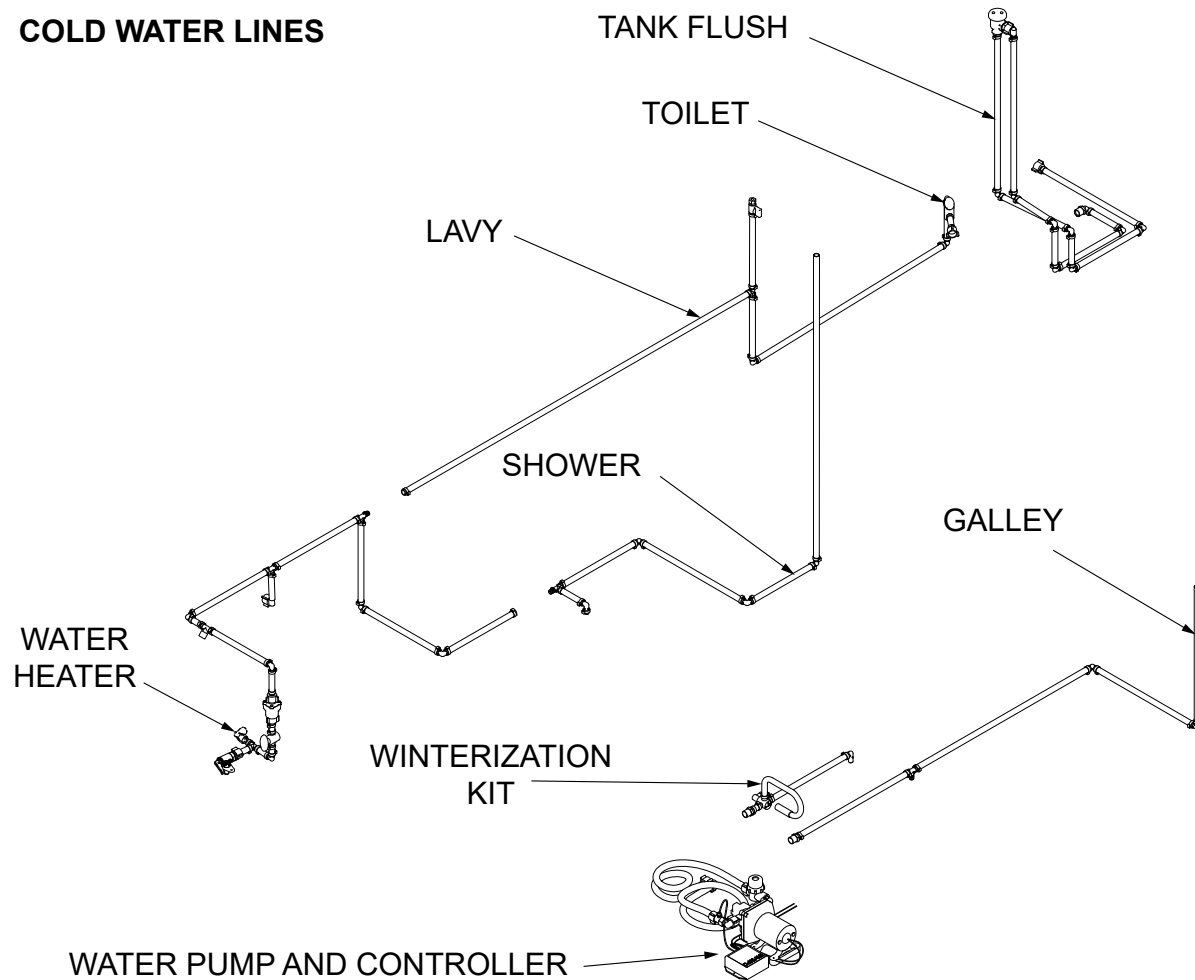


**22RB - Fresh Water Layout**

**HOT WATER LINES**



**COLD WATER LINES**



## FAQs and Answers

### Electrical

#### 1. *What size of generator is needed to operate my Airstream?*

Answer: A 1000 watt generator may be used to charge just the batteries. However, if wanting to run appliances such as microwave or AC units, it is recommended to have at least 4,000 watts or more. (This is for a 30-Amp system). Many Airstreamers accomplish this using two portable generators run in parallel.

#### 2. *I was told my Airstream is pre-wired for solar panels. What does this mean?*

Answer: Wiring has been installed throughout your trailer for the solar package Airstream is currently using. For more information on solar packages, you may wish to contact your Airstream dealer. Also, [see Solar Power Charging on page 5-15](#).

#### 3. *What type of batteries are in an Airstream?*

Answer: For information about the different types of batteries, [see Batteries on page 5-12](#) and refer to the battery manufacturer's information for details specific to the type of battery you chose for your Airstream.

#### 4. *Do you recommend using a surge protector when plugged into shore power?*

Answer: Your Airstream is breaker protected. However, with the use of more personal electronic devices and the number of RV users in parks, added protection is always a plus.

#### 5. *What is the battery disconnect switch function?*

Answer: It is a switch that disengages or engages the 12-volt power supply from the house batteries to everything but the LPG detector. The switch is used to cut power when the trailer is not being used or put into storage to preserve battery charge; [see Battery Disconnect Switch on page 5-12](#).

#### 6. *What does the power converter do in my trailer?*

Answer: The converter takes 120-volt AC shore power and turns it into 12-volt DC to keep batteries charged and power 12-volt items in your trailer.

### Plumbing

#### 1. *Is it recommended to leave the dump valves open when connected to a sewer hookup?*

Answer: No. This would cause a buildup inside the tank; [see Extended Stays on page 8-11](#).

#### 2. *How does the waste tank flush work?*

Answer: For information on how to use the tank flush, [see Waste Tank Flush on page 8-11](#).

#### 3. *Do I need a water regulator?*

Answer: No, your Airstream is equipped with a built in regulator rated for 50 PSI.

#### 4. *How do I get fresh water into my trailer?*

Answer: You can use the on board fresh water tank and 12-volt pump for your water supply when boondocking, or hook to an external water source via garden hose to exterior water inlet when parked at a campground; [see Gravity Water Fill on page 6-6](#) and [see City Water Hookup on page 6-6](#).

#### 5. *What is the difference between the gray water tank and the waste water tank?*

Answer: The gray water tank holds water from shower and sink drains. The waste water tank holds sewer water from the toilet.

### Audio-Video

### Appliances

#### 1. *I am planning for a trip in my Airstream. How should I get the refrigerator cooled down?*

Answer: Cooling time will vary with exterior temperatures and time of day. Start by pre-cooling your refrigerator at least 12 hours prior to loading your refrigerator. Always pre-cool food in your refrigerator or freezer to reduce cooling time. Do not pack food too tight in compartment as to prevent circulation around food items. Normal refrigerator operating temperatures are 34°F to 40°F.

#### 2. *My air conditioner freezes up. What is the problem?*

Answer: In high humidity conditions, the AC manufacturer recommends you operate your AC (manual mode) on the high fan setting and all vents should be open to have maximum air flow over the coils; this helps reduce icing. Also, dirty air conditioner filters can restrict air flow and cause the AC to ice up.

**Maintenance****1. Where can I find my trailer serial number?**

Answer: A label is attached on the roadside sheet at the front side sheet seam. This label will also provide the inflation pressure of the tires and GVWR. The serial number of the trailer is also stamped on the street side of the A frame by the LPG tanks.

**2. Awning suggestions:**

Your Zip Dee awning is intended to provide shade. Your awning can be used in light rain conditions if front or rear is tilted to let water run off. Light winds should not affect awning use. If you are leaving your trailer for long periods or in threatening weather, the awning should be retracted. Visit <https://support.airstream.com> to view User Guide Videos on this subject.

**3. Cleaning the exterior of my Airstream. Suggestions:**

Airstream recommends washing the trailer using a mild auto detergent safe for clear coated surfaces. Airstream recommends washing based on operating conditions and waxing a minimum of twice a year. Walbernize Superseal is a product that was designed specifically for Airstream and provides good wax protection; see [Exterior Features and Care on page 6-2](#).

**4. Can I use a nylon cover for my Airstream?**

Answer: Airstream does not recommend using any type of cover. The installation and movement of the cover in windy conditions could scratch the clearcoat.

**5. My main door is hard to open, is this normal?**

Answer: Your main door is designed differently than a flat surface door. The door is over bent in order to apply more pressure at the top and bottom of door for better sealing. Also, on uneven surfaces the trailer can be in a slight twist that could affect closing. Make sure trailer is as level as possible. For more information, see [Doors on page 8-14](#)

**6. What should I use to clean the aluminum on the interior of my Airstream?**

Answer: For information on how to clean the white interior aluminum, see [Interior Aluminum Skin on page 5-3](#).

**7. How do I clean the blinds, upholstery and other interior features?**

Answer: For information on how to clean interior features, see [Interior Features and Care on page 5-3](#).

**8. What is a rubber torsion axle?**

Answer: Your trailer has Dexter rubber torsion axles, this type of axle has internal rubber cords that provide load carrying capacity versus leaf spring type axles. Reminder - never jack up trailer using rubber torsion axle tubes; see [Chassis Features on page 6-7](#).

**9. My windows are sticking and don't open easily; what is wrong?**

Answer: Your windows have rubber seals around the edges which in extreme, heat and dusty conditions can become sticky. For more information, see [Acrylic Window Care on page 6-3](#)

**10. The mattresses in my Airstream are of special shape and design, where can I buy sheets?**

Answer: Airstream Supply Company offers a variety of add on items tailored to your Airstream that are available for purchase at <https://www.airstreamsupplycompany.com>.

## NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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# AIRSTREAM®

## Resource Guide

### Welcome to Airstream

We have developed a Welcome Book to help get you up to speed quickly and learn the ins and outs of Airstream life. Inside this guide you will find all the resources below and much more.

- A Timeline of Airstream History
- A Guide to Getting Started
- Benefits and Support
- Meet Your People
- Plan a Trip
- Document your Journey

### Get Your Welcome Book



Travel Trailer



Touring Coach

### Airstream Resources

#### Owner's Hub



#### Owner's Manuals



#### Name Your Airstream



#### AIRSTREAM SUPPLY COMPANY



### Welcome to the Family



#### Airstream Club International

[www.airstreamclub.org](http://www.airstreamclub.org)

Engage with the longest-rolling, single branded RV club in the world. Your first year "Explorer Membership" is paid for by Airstream.



#### Visit the Mothership

[www.airstream.com/heritage-center](http://www.airstream.com/heritage-center)

Make plans to visit Airstream in Jackson Center, Ohio to take a factory tour and visit the Heritage Center to experience the history of our iconic brand.

### My Airstream

#### Model Information

Model Year \_\_\_\_\_

Purchase Date \_\_\_\_\_

Model Name \_\_\_\_\_

VIN Number

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Airstream Serial Number

#### Airstream Dealer

Name: \_\_\_\_\_

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Website: \_\_\_\_\_

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