XPEDITION TRAILERS

2025 VOYAGER
OWNER'S MANUAL

580 N REDWOOD ROAD, NORTH SALT LAKE, UT 84054

Your way out.

WELCOME!

We would like to extend a heartfelt thanks to you for purchasing a Voyager trailer and welcome you to the Xpedition Family!

From the initial concept of what would become the Voyager overland trailer and the flagship product of Xpedition Trailers, it was all about rethinking the entire experience of using a camper trailer in the backcountry. Born from decades of exploration in the most extreme off-road environments in nearly every corner of the Rockies, the Voyager trailer will certainly not disappoint. Whether you are looking to traverse continents, explore where others would consider impossible, bring a new level of comfort and enjoyment to the outdoors, or are simply tired of the tedious packing and unpacking every time you want to get out and enjoy a quick weekend camping trip, the Voyager trailer is for you.

The Voyager is a product of a lifetime of adventuring, 20 years of experience building off-road components, and a love for the outdoors that has never wavered. We hope the trailer brings you and yours many memories escaping the rat race of the world and getting back to the beautifully simple, yet exquisite outdoor life. We truly believe that finding "Your Way Out" is one of the most satisfying and healing things a person can do, and we are proud and honored to be a part of that in any way.

With Love,

Artie & Stacy Nuttall

Artie & Stacy Nuttall
Founders & Owners of Xpedition Trailers

YOUR OWNER'S MANUAL:

Make this Owner's Manual a permanent part of your Voyager, download it to a smart device you carry with you, or print it out to keep it with the Voyager at all times. Keep the manuals, stickers, and tags associated with your Voyager's items, add-ons, appliances, and equipment in the Voyager as well for easy reference.

All manuals, including components with pass-thru warranties etc., are available on our website on the owner resources page - https://xpeditiontrailers.com/owner-resources.

This manual is not intended to be inclusive of every operational aspect of your unit. It should be utilized and referenced by you in conjunction with the separate, additional manuals provided by the manufacturers of the different components, component parts, appliances, add-ons, systems, and accessories in your unit. Your unit will contain any such manuals provided to Xpedition Trailers by the specific component part, appliance, add-on, system, and accessory manufacturer. Please read them to gain a more complete understanding of the operation and maintenance of the products and appliances installed in your Voyager.

ABOUT THIS AND OTHER COMPONENT MANUALS:

An Owner's Manual that provides general trailer information cannot cover all of the specific details necessary for the proper combination of every trailer, tow vehicle and hitch. You must read, understand and follow the instructions given by the tow vehicle and trailer hitch manufacturers, as well as the instructions in this manual.

Our trailers are built with components produced by various manufacturers. Some of these items have separate instruction manuals. Where this manual indicates that you should read another manual, and you do not have that manual, contact your dealer for assistance.

PLEASE NOTE:

This Owner's Manual contains the most up-to-date product information available at the time of publication. However, due to continuous product development, innovation, and improvements, Xpedition Trailers reserves the right to make changes in production techniques/processes, product materials, product specifications, and components. Such changes may be made without prior notice or any obligation upon Xpedition Trailers to make corresponding changes or improvements in or upon its already manufactured, installed and/or sold trailers and/or products. Please visit our website at https://xpeditiontrailers.com/owner-resources to check for manual updates.

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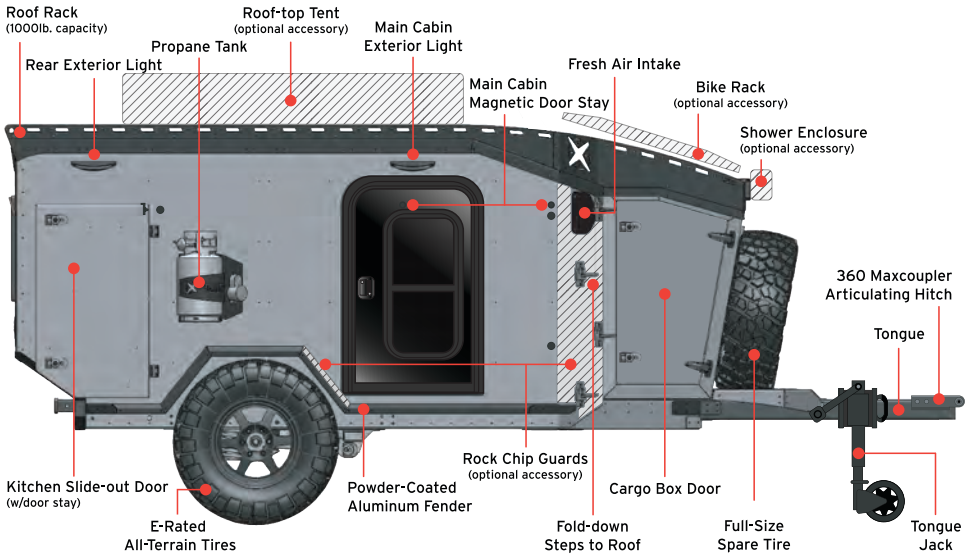
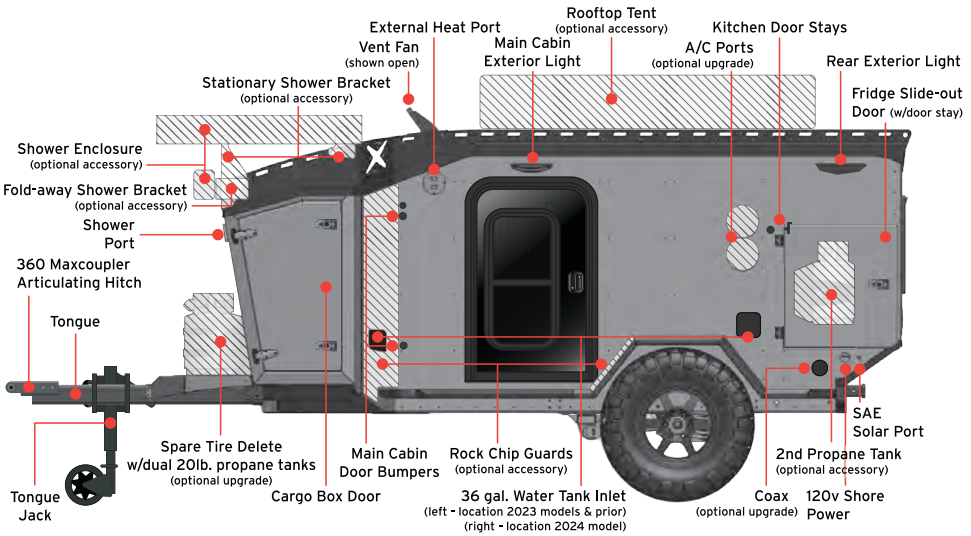
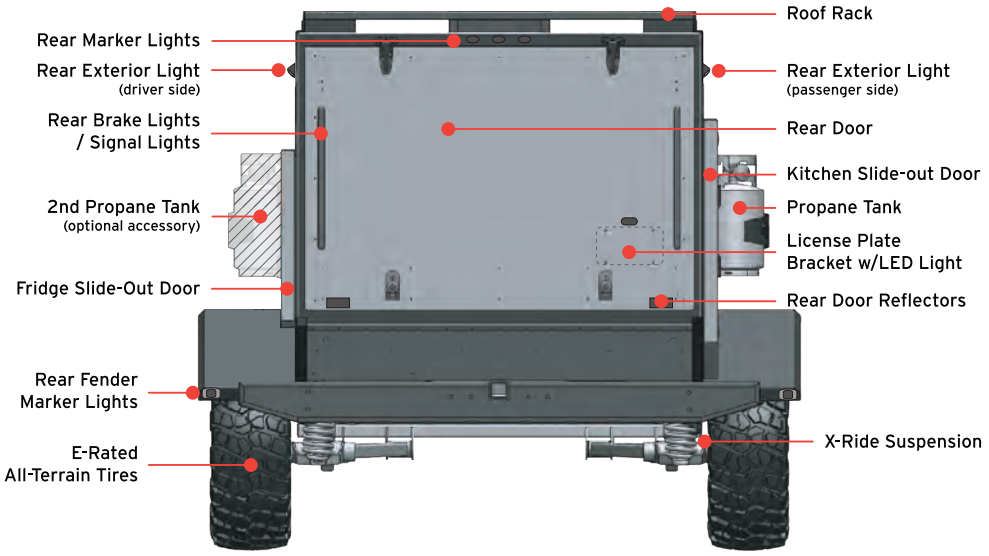
PASSENGER SIDE:



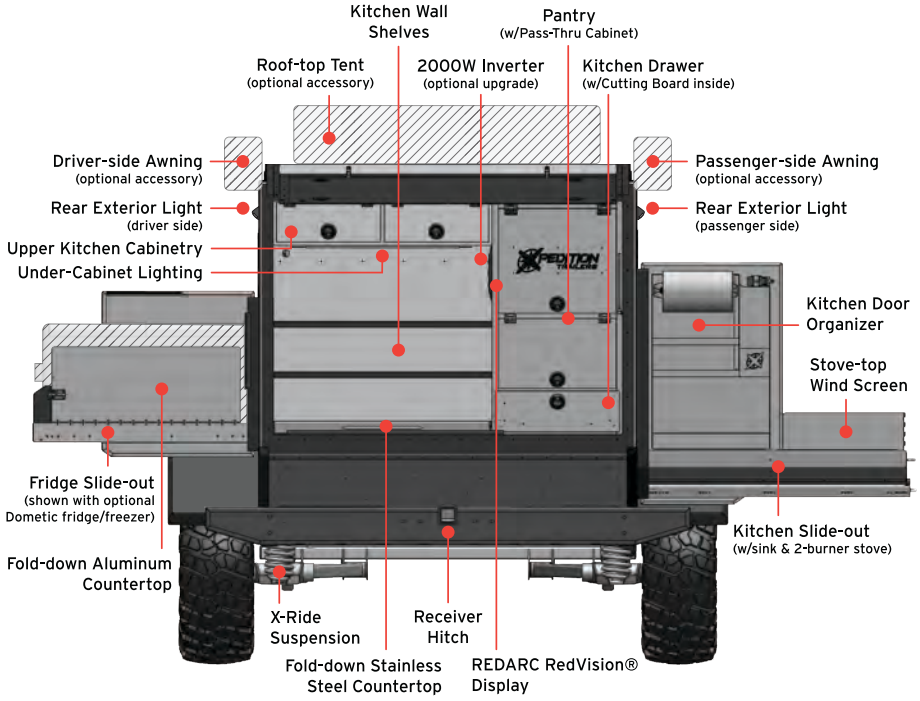
DRIVER SIDE:



REAR VIEW - CLOSED:

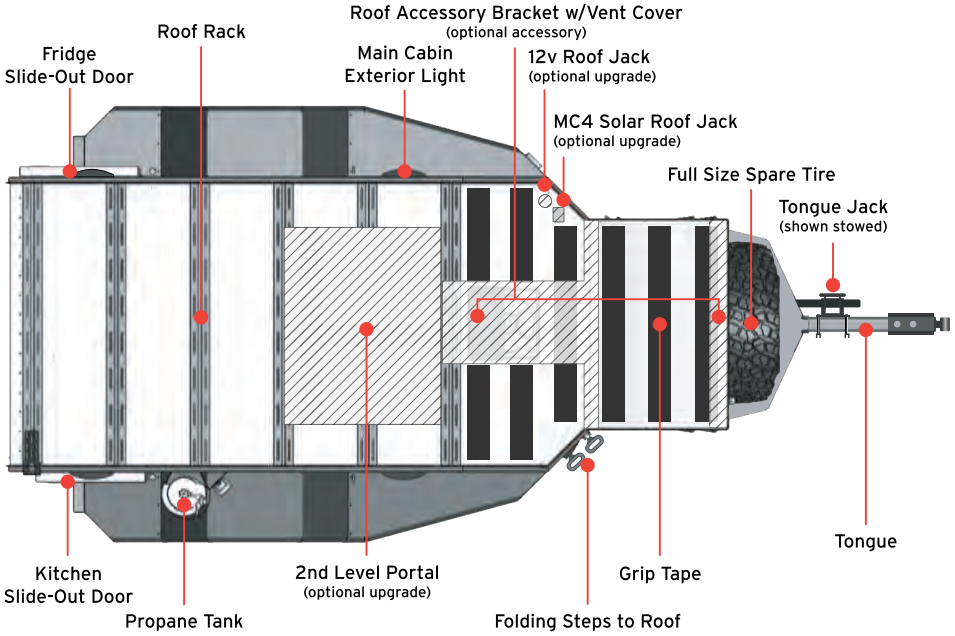


REAR VIEW - OPEN:

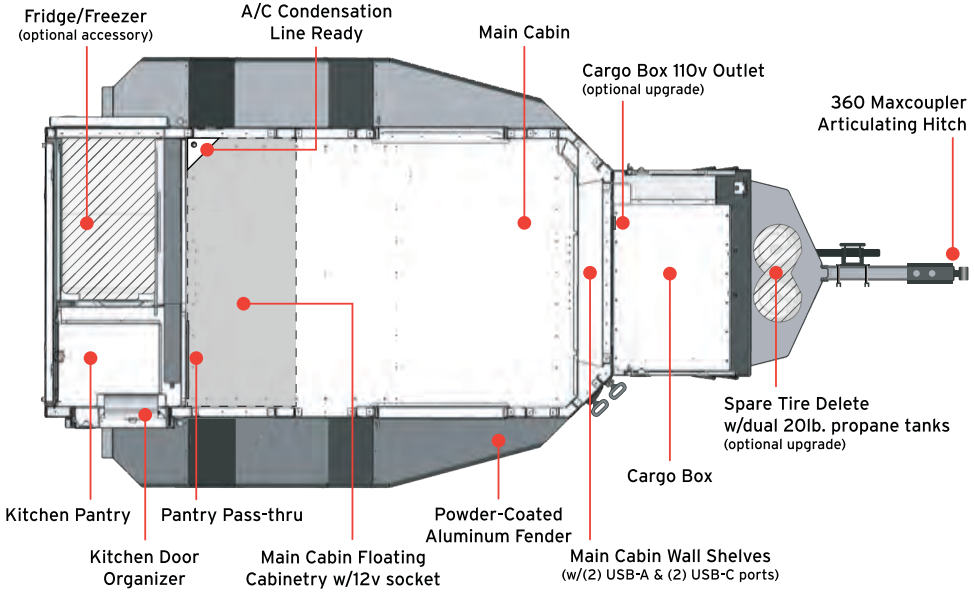


VOYAGER OVERVIEW

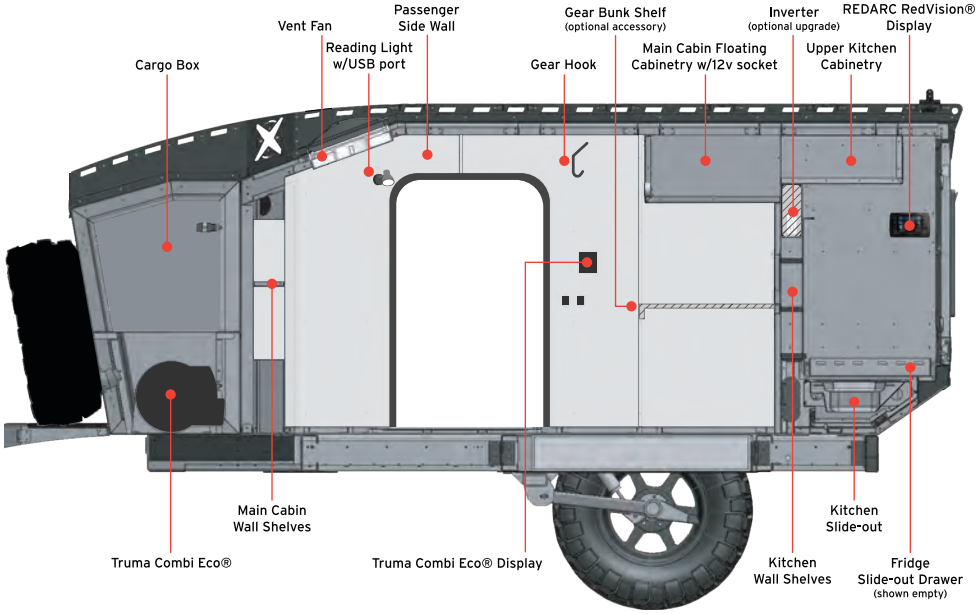
TOP VIEW:



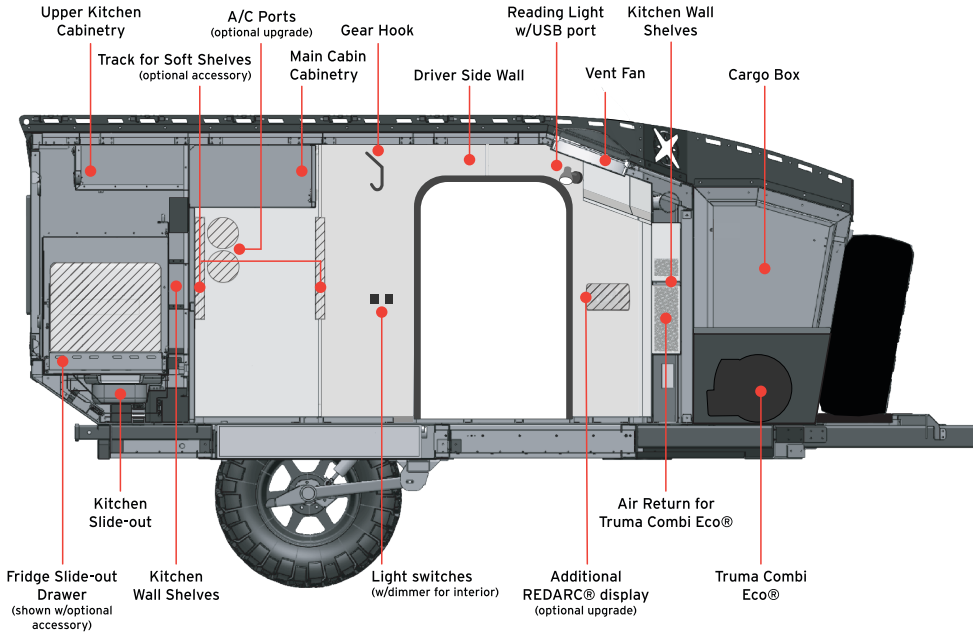
TOP VIEW - ROOF CUT-AWAY:



PASSENGER SIDE - CROSS SECTION:



DRIVER SIDE - CROSS SECTION:



DIMENSIONS:

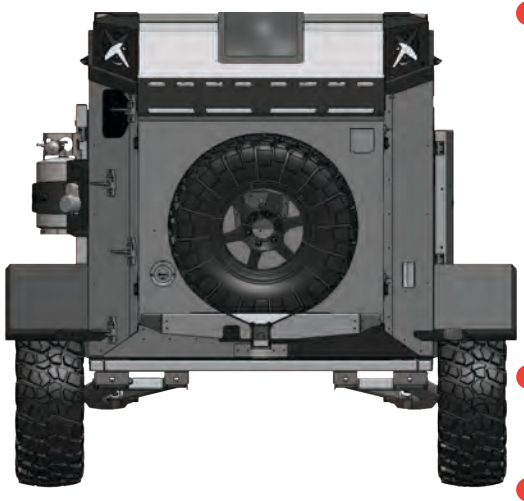
ROOF RACK LENGTH: 94” (7’10”)

BODY LENGTH: 158” (13’2”)

OVERALL LENGTH: 192” (16’)

ROOF RACK WIDTH: 58” (4’10”)

OVERALL WIDTH (CLOSED): 89” (7’5”)



OVERALL HEIGHT: 82” (6’10”)

BODY HEIGHT: 62” (5’2”)

OVERALL WIDTH (OPEN): 138” (11’6”)

1.2. SPECIFICATIONS

BUILD	
GVWR	*4200 LBS*
BASE DRY WEIGHT	*2600 LBS*
FRESHWATER CAPACITY	*36 GAL*
SUSPENSION TRAVEL	*4.5"*
GROUND CLEARANCE	*18"*
TRACK WIDTH	*76"*
ROOF RACK	*94" X 58"*
OVERALL LENGTH	*192"*
OVERALL WIDTH (CLOSED)	*89"*
OVERALL WIDTH (OPEN)	*144"*
OVERALL HEIGHT	*82"*
INTERIOR LENGTH	*86.5"*
INTERIOR WIDTH	*55.5"*
INTERIOR HEIGHT	*48"*
MATTRESS SIZE	*53" X 75"-80"*
MAIN CABIN MATERIALS	*All-aluminum construction*
CHASSIS MATERIALS	*Powder-coated aluminum & steel*

FEATURES	
4 SEASON PROTECTION	Truma Combi Eco® water heater & furnace, external heat port, zero-wood/all-aluminum construction, energy-star rated/moisture-resistant foam insulation, reversible MaxxFan, battery insulation, water tank insulation & heat pad, A/C condensation line ready *OPTIONS: additional kitchen insulation, A/C ports & shelf*
SUSPENSION	Xpedition X-Ride Independent A-Arm Suspension
CHARGING/POWER	Dual 115 Ah AGM batteries, 15 amp/110v shore power port, 12v DC to DC cable, SAE solar port, (4) USB-A & (2) USB-C ports, 12v socket *OPTIONS: Dual 100 Ah Lithium batteries, 2000W inverter w/remote, MC4 roof solar port, 12v roof jack, cargo box 110v outlet, coax*
POWER MANAGEMENT	REDARC RedVision® Total Management System with display in kitchen area and remote control through REDARC® app *OPTION: additional REDARC® display in the main cabin*
FUEL	Propane tank mount w/11 LB cylinder *OPTION: 2nd propane tank & harness* *OPTION: Dual 20lb. propane tanks, plumbed*
WATER	*36 gallon fresh water tank, water furnace, lidded sink in kitchen, shower port with hose & shower head attachment* *OPTIONS: stationary or fold-away shower bracket, shower enclosure*

FEATURES (CONTINUED)	
EXTERIOR	1000 lb capacity roof rack w/6 cross rails, riveted construction, 4 fold-down steps to access roof, vinyl wrap w/protective laminate *OPTIONS: roof accessory bracket with optional bike rack system with or w/o vent cover, roof-top tent, awning(s), rock chip guards, stabilizer jacks*
WHEELS	KMC 17x8.5, all black
TIRES	LT265/70R17 BF Goodrich All-Terrain T/A KO2 (31") Load Range E w/full-size spare *OPTIONS: 285 (33") or 315 (35") Load Range E*
BRAKES	Dexter Electric 7K
TONGUE JACK WHEEL	ARK XO750 heavy duty trailer jack
COUPLING	Maxcoupler articulating hitch (8000 lbs capacity)
INTERIOR / MAIN CABIN	Versatile & generous storage options, reading & dimmable overhead lights, convertible sofa bed, gear hooks, dual locking side doors w/operating windows & screens *OPTIONS: 2nd level portal, hard or soft shelves, magnetic window covers*
KITCHEN	Multi-configurable galley-style kitchen w/3 well-lit prep areas, stainless-steel countertop, ample storage, slide-out sink & 2-burner gas stoves, slide-out drawer for optional fridge/freezer, fridge cord energy chain, lock-open doors, 3-sided stove wind guard *OPTIONS: Dometic® CFX3 75DZ dual zone fridge/freezer*

1.3. GENERAL INFORMATION

1.3.1. VIN & Glossary of Terms

The Certification / Vehicle Identification Number (VIN) can be found on your Voyager trailer in multiple locations:

Driver side, on tongue, near break-away switch
Driver side, inside cargo box, cabin-side wall
Driver side, right of main cabin door

The trailer Certification / VIN tag contains the following critical safety information for the use of your trailer:

VIN: The Vehicle Identification Number.

MANUFACTURER: Xpedition Trailers, LLC.

DATE OF MANUFACTURE: Month & year trailer was manufactured.

GVWR: The Gross Vehicle Weight Rating is the maximum allowable gross weight of the trailer and its contents. The gross weight of the trailer includes the weight of the trailer and all of the items within it (such as cargo and other supplies).

GAWR: The Gross Axle Weight Rating is the maximum gross weight that an axle can support. It is the lowest of axle, wheel, or tire rating. Sometimes the tire or wheel rating is lower than the axle manufacturers rating and will then determine GAWR.

The sum total of the GAWR for the trailer axle may be less than the GVWR for the trailer, because some of the trailer load is carried by the tow vehicle, rather than by the trailer axle. The total weight of the cargo and trailer must not exceed the GVWR, and

the load on an axle must not exceed its GAWR.

TIRE SIZE: The tire size and load range for your trailer.

RIM SIZE: The rim size and load range for your trailer.

TIRE PRESSURE: The tire air pressure (kPa / PSI) measured with tires cold.

VEHICLE TYPE: Model or style of trailer.

CERTIFICATION STATEMENT: "This trailer meets all the Federal Motor Vehicle Safety Standards in effect on the date of manufacture shown above".

2. SAFETY OVERVIEW

2.1. SIGNAL WORDS

This manual has been prepared to help you understand and use your new trailer and contains items that are all important. Please make sure you pay attention to them and follow the instruction given. The safety information in this manual is denoted by the following signal words:

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 situation that could result in damage to the equipment or other property.

2.2. SAFETY DEVICES

2.2.1. Fire Extinguisher

Your trailer is equipped with 1 fire extinguisher in the main cabin of the trailer, on the front wall, passenger side. Operate & replace fire extinguisher according to the component manufacturer's instructions.

WARNING

Test fire extinguisher and replace as recommended by the component manufacturer. Failure to do so can result in death or serious injury.

2.2.2. Smoke Detector

The main cabin of your Voyager has a smoke detector placed over the passenger door. Please refer to the component manufacturer's owner's manual for operating instructions. Be sure to test your smoke detector regularly, according to the component manufacturer's instructions.

⚠ WARNING

Test smoke alarm operation after vehicle has been in storage, before each trip, and at least once per week during use. Failure to do so can result in death or serious injury.

2.2.3. Carbon Monoxide Detector

On the lower shelf of your main cabin's wall shelves, you will find a carbon monoxide detector. Check that power is flowing to the detector by verifying that the green light is lit. Test your device regularly, according to the component manufacturer's instructions.

If green light is not lit, check your REDARC® to make sure the Utility Circuit is on (see below).

⚠ WARNING

Ensure carbon monoxide detector is on & functioning properly after vehicle has been in storage, before each trip, and at least once per week during use. Failure to do so can result in death or serious injury.

Carbon monoxide (CO) can cause brain damage or death. Signs of carbon monoxide poisoning include nausea, headache, dizziness, drowsiness & lack of consciousness. Get fresh air if signs of carbon monoxide poisoning are present.

2.2.4. Solenoid Rocker Switch

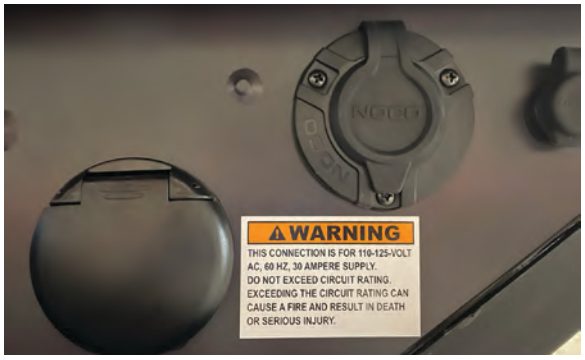
Your Voyager is equipped with a safety switch that inhibits propane flow to the stove unless the kitchen slide-out is fully extended and switch is turned to the on position.

See photo below for solenoid rocker switch location with warning label. See "3.2.4. Solenoid Valve & Rocker Switch" for information on this safety mechanism in the Voyager's fuel system, and "2.3. SAFETY LABELS" for its corresponding warning label.

2.3. SAFETY LABELS

There are 10-11 warning labels placed around your Voyager (depending on your options. These labels are as follows:

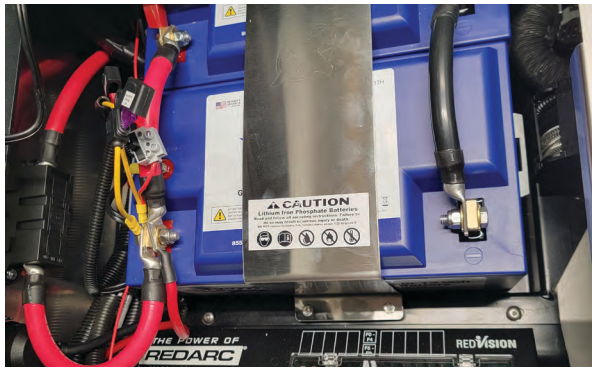
1. **Shore Power**
   (near shore power input, driver side)



⚠ WARNING

This connection is for 110-125v AC, 60Hz, 20 Amp supply. Do not exceed circuit rating. Exceeding the circuit rating can cause a fire and result in death or serious injury.

2. **Batteries**
   (on battery strap if Lithium Battery option is selected)



⚠ CAUTION

Lithium Ion Phosphate Batteries

Read and follow all operating instructions. Failure to do so may result in serious injury or death. Do not expose to water, fire, temperatures above 132 degrees F.

3. **Solenoid Rocker Switch**
   (located near solenoid switch inside kitchen slide-out door, above slide-out, on wall)

NOTICE

This Pull-Out is equipped with a gas safety switch, gas will not be on unless slide is fully extended and rocker switch is on.

4. Cooking Area

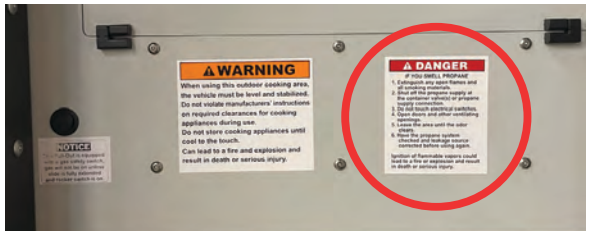
(located inside kitchen slide-out door, above slide-out, on wall)

WARNING

When using this outdoor cooking area, the vehicle must be level and stabilized. Do not violate manufacturer's instructions on required clearances for cooking appliances during use. Do not store cooking appliances until cool to the touch. Can lead to a fire and explosion and result in death or serious injury.

5. Propane

(inside kitchen slide-out door, above slide-out on wall)



DANGER

IF YOU SMELL PROPANE

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

Ignition of flammable vapors could lead to a fire or explosion and result in death or serious injury.

6. Propane Tank

(near propane tank on passenger side)

DANGER

IF YOU SMELL PROPANE

All pilot lights, appliances, and their igniters (see operating instructions) shall be turned off before refueling of motor fuel tanks and/or propane containers. Can cause ignition of flammable vapors, which can lead to a fire or explosion and result in death or serious injury.

WARNING

Do not fill propane container(s) to more than 80 percent of capacity. A properly filled container contains approximately 80 percent of its volume as liquid propane. Overfilling propane container(s) can result in uncontrolled propane flow, which could lead to a fire or explosion and result in death or serious injury.

WARNING

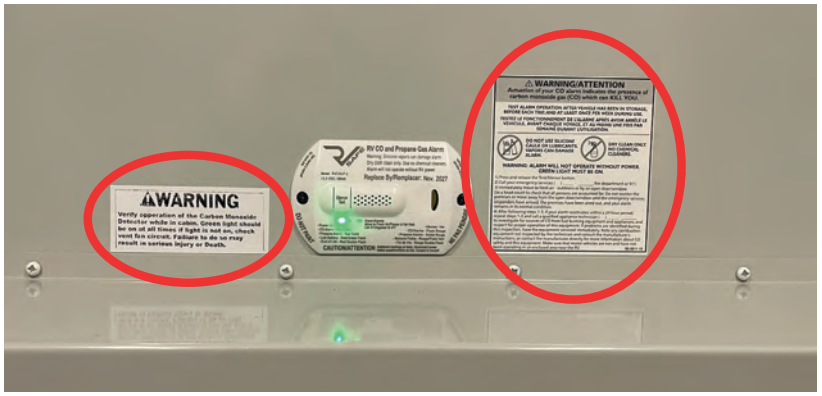
This propane piping system is designed for use with propane only. Do not connect natural gas to this system. Securely cap inlet when not connected for use. After turning on propane, except after normal cylinder replacement, test propane piping and connections to appliances for leakage with soapy water or bubble solution. Do not use products that contain ammonia or chlorine to test for leaks. Can lead to a fire or explosion, which could result in death or serious injury.

7. Water Fill
(inside of water fill door)

WARNING

Potable water only. Sanitize, flush, and drain water tank before using. See owner's manual for instructions, care, and maintenance information. Failure to maintain tank can result in death or serious injury.

8 & 9. Carbon Monoxide Detector
(inside main cabin on wall shelves)



⚠ WARNING

Actuation of your CO alarm indicates the presence of carbon monoxide gas (CO) which can KILL YOU.

TEST ALARM OPERATION AFTER VEHICLE HAS BEEN IN STORAGE, BEFORE EACH TRIP, AND AT LEAST ONCE PER WEEK DURING USE.

DO NOT USE SILICONE CAULK OR LUBRICANTS, VAPORS CAN DAMAGE ALARM.

WARNING: ALARM WILL NOT OPERATE WITHOUT POWER. GREEN LIGHT MUST BE ON.

1) Press and release the Test/Silence button.
2) Call your emergency services (__) ____ - _____, fire department or 911.
3) Immediately move to fresh air - outdoors or by an open door/window. Do a head count to check that all persons are accounted for. Do not reenter the premises or move away from the open door/window until the emergency services responders have arrived, the premises have been aired out, and your alarm remains in its normal condition.
4) After following steps 1-3, if your alarm reactivates within a 24 hour period, repeat steps 1-3 and call a qualified appliance technician (___)____-_____ to investigate for sources of CO from fuel burning equipment and appliances, and inspect for proper operation of this equipment. If problems are identified during this inspection, have the equipment serviced immediately. Note any combustion equipment not inspected by the technician and consult the manufacturer's instructions, or contact the manufacturer directly for more information about CO safety and this equipment. Make sure that motor vehicles are not and have not been operating in an enclosed are near the RV.

10. Smoke Detector
(inside main cabin above passenger door)

⚠ WARNING

Test smoke alarm operation after vehicle has been in storage, before each trip, and at least once per week during use. Failure to do so can result in death or serious injury.

11. Tongue
(top end of tongue near coupler)

⚠ WARNING

To prevent serious injury or death before towing this vehicle:

- **Secure coupler**
- **Attach safety chains**
- **Tighten lug nuts**
- **Insert all applicable pins**

⚠ WARNING

To protect you and others against death or serious injury, all applicable labels shown must be on the trailer and must be legible.

If any of these labels are missing or cannot be read, contact your dealer for replacement labels.

2.4. MAJOR HAZARDS

Loss of control of the trailer or trailer/tow vehicle combination can result in death or serious injury. The most common causes for loss of control of the trailer are:

- Improper sizing the trailer for the tow vehicle, or vice versa.
- Excessive speed: Driving too fast for the conditions.
- Improper braking and steering under sway conditions
- Overloading and/or improper weight distribution.
- Not keeping lug nuts tight.
- Failure to adjust driving behavior when towing a trailer.
- Not maintaining proper tire pressure
- Improper or mis-coupling of the trailer to the hitch.

Refer to sections on loading, towing & hitching for more safety information.

2.5. TRAILER MODIFICATIONS

Modification of the trailer structure or alteration of your trailer can make the trailer unsafe and will void all warranty options. Before making any alteration to the trailer, contact your dealer or the manufacturer and describe the alteration you are contemplating.

2.6. REPORT SAFETY DEFECTS

If you believe your trailer has a safety defect or concern please don't hesitate to reach out to us! We are always available and welcome any communication especially when it relates to safety. Here's our contact information:

Xpedition Trailers
580 N. Redwood Rd.
North Salt Lake, UT 84054

Tel. 801-335-5375
E-mail: sales@xpeditiontrailers.com
Website: https://xpeditiontrailers.com/

If you believe the defect could cause a crash, injury or death you may also contact the National Highway Traffic Safety Administration (NHTSA), you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); or go to http://www.safercar.gov; or write to:

Administrator, NHTSA
1200 New Jersey SE
Washington, DC 20590

3. SYSTEMS OVERVIEW

3.1. ELECTRICAL SYSTEM

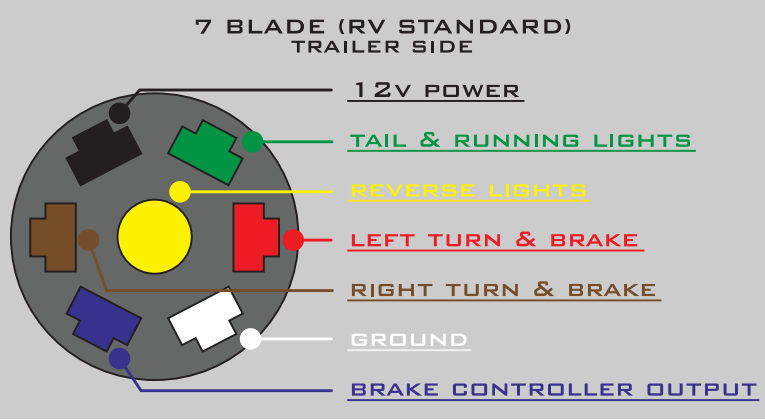
3.1.1. Overview

Your Voyager Electrical System collects, manages, & distributes power. There are two separate electrical systems in the Voyager:

- The Trailer DOT Lighting & Brake Control
- The "House" Electrical System (this controls everything that is connected through the REDARC®).

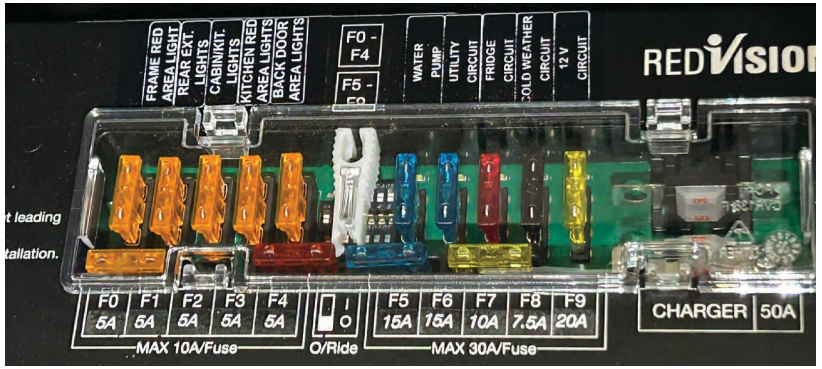
3.1.1.1. DOT Lighting & Brake Control

At the rear of the trailer, you will find an RV standard 7-Way vehicle connector which manages your DOT lighting & braking controls.



3.1.1.2. House Electrical System

The Voyager's "House" Electrical System is comprised of the REDARC® Manager30 and everything it controls.



WIRING KEY

FUSE #	CIRCUIT	ITEMS ON CIRCUIT	+ POS WIRE COLOR	+ POS STRIPE COLOR	- NEG WIRE COLOR	- NEG STRIPE COLOR
F0	FRAME RED AREA LIGHTS	2 REAR GROUND, 2 FENDER	BROWN	BLACK	WHITE	BROWN
F1	REAR EXTERIOR LIGHTS	1 ABOVE SINK/STOVE SLIDE-OUT 1 ABOVE FRIDGE/FREEZER SLIDE-OUT	RED	BLACK	WHITE	RED
F2	MAIN CABIN LIGHTS	4 INT. LIGHTS, 2 INT. READING LIGHTS, 2 MAIN CABIN EXT. LIGHTS, KITCHEN UNDER-CABINET LIGHT, KITCHEN SLIDE-OUT LOW LIGHT	ORANGE	BLACK	WHITE	ORANGE
F3	KITCHEN RED AREA LIGHTS	2 UNDERSIDE BACK DOOR, 1 INSIDE KITCHEN SLIDE-OUT	YELLOW	BLACK	WHITE	YELLOW
F4	BACKDOOR AREA LIGHTS	4 BACKDOOR AREA LIGHTS	GREEN	BLACK	WHITE	GREEN
F5	WATER PUMP	WATER PUMP	LT. GREEN	BLACK	WHITE	LT. GREEN
F6	UTILITY	VENT FAN, CARGO BOX LIGHT, CARBON MONOXIDE DETECTOR	BLUE	BLACK	WHITE	BLUE
F7	FRIDGE	FRIDGE/FREEZER	WHITE	BLACK	WHITE	WHITE
F8	COLD WEATHER	WATER TANK HEAT PAD, BATTERY HEAT ELEMENT (LITHIUM ONLY)	VIOLET	BLACK	WHITE	VIOLET
F9	12V	12V SOCKET, USB-A & USB-C PORTS, ROOFTOP 12V (OPTION)	GRAY	BLACK	WHITE	GRAY

PLEASE NOTE: Your Voyager's wiring system may differ from what is listed above, depending on your Voyager model. When there is a discrepancy, please refer to the labeling on your REDARC® Manager30 fuse panel.

3.1.2. Power Input

There are multiple ways through which the Voyager draws in power.

- Shore Power
- Tow Vehicle to Trailer Charging System
- Batteries
- Solar Power

The REDARC® RedVision Power Management System prioritizes green energy first (solar power). Refer to your REDARC® manual for more information.

3.1.2.1. Shore Power

The shore power port on your Voyager Trailer is located on the rear end of the driver's side, underneath the fridge/freezer slide-out door. This port enables you to plug your trailer into shore power to charge while parked, using a standard 110v 3-pole extension cable.

⚠ WARNING

This connection is for 110-125v AC, 60 Hz, 20 Amp supply. Do not exceed circuit rating. Exceeding the circuit rating can cause a fire and result in death or serious injury.

3.1.2.2. Tow Vehicle to Trailer Charging System

Included with your Voyager is a 25 foot 12v DC to DC charging cable which, after installed by a qualified professional, will enable you to charge your trailer with your tow vehicle.

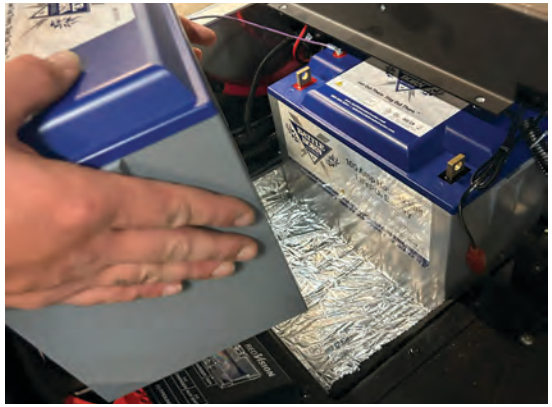
The cable attaches to your tow vehicle's battery and runs along the underside of your vehicle, to be connected to the trailer at the hitch.

3.1.2.3. Batteries

Your Voyager is equipped with two batteries located in the rear of your trailer, accessible under a battery cover underneath your

fridge/freezer slide-out/stainless steel countertop (see photo below).

The Voyager comes standard with 3/8ths inch high density insulation with thermal barrier placed underneath your batteries for protection against cold temperatures (2024 models and later).



3.1.2.3.1. Battery Options

You have two options when choosing batteries for your Voyager: the standard dual 115Ah AGM Batteries, or you may upgrade to dual 100Ah Lithium Batteries.

1. Dual 115Ah AGM Batteries

The Voyager comes standard with dual 115Ah AGM batteries. For more information on your battery, please see component manufacturer's manual and/or website (battery manufacturer subject to change).

2. Dual Lithium Batteries (Optional Upgrade)

An upgrade to dual 100Ah Lithium batteries is one of the options available when equipping your Voyager trailer. The lithium battery boasts a faster charge time and longer lifespan. The Battleborn® Lithium batteries are designed to last 3000-5000 cycles, at which point the battery will still hold 75%-80% of its energy capacity*. Visit the component manufacturer's website for more information on the battery and battery warranty (battery manufacturer and battery specs subject to change).

In addition, these optional batteries also include a heating element enabling you to take full advantage of the four-season capabilities of the Voyager trailer. To turn on this heating element, simply turn on the Cold Weather Circuit on the REDARC® display (shown below).

*Excerpt from https://battlebornbatteries.com/.

3.1.2.3.2. Charging your Batteries

The lifespan of your batteries greatly increases if you keep them at or close to full charge at all times. Letting the batteries completely discharge and/or leaving them empty frequently will accelerate the degradation process of your batteries. Therefore, we recommend plugging your trailer into shore power whenever possible.

For more information on the storage and maintenance of your batteries see your battery manufacturer's manual, and "11.8.2. Batteries" in this manual

3.1.2.4. Solar Power

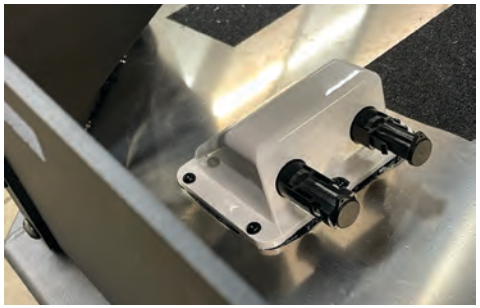
Here at Xpedition Trailers, we believe in using green energy as much as possible, so we have provided a few ways for you to harness the sun's energy. The Voyager comes standard with a solar jack and you have the option to also upgrade your Voyager to include an additional solar jack on your roof. The REDARC®'s smart system automatically prioritizes green energy, so any solar power collected gets utilized first.

1. Standard Solar Jack

Near the shore power port at the driver side rear of your trailer you will find the standard solar jack with SAE connector to attach your deployable solar options. **Solar panel voltage range should be between 9-30v DC, 545W max.**

2. Solar Roof Jack (Optional Upgrade)

Provides an MC4 connector for both mounted or deployable solar options on your roof. If chosen as an upgrade, this will be located on the driver side roof, near the front of the trailer.



If you choose to use panels connected to the standard solar jack in conjunction with panels connected to the roof jack, we recommend solar panels with the same voltage for best performance. **Solar panel voltage range should be between 9-30v DC, 545W max.**

3.1.3. Power Management

3.1.3.1. REDARC® RedVision System

Your Voyager is equipped with the state-of-the-art power management system, REDARC® RedVision. You can manage everything from the display in the kitchen of your Voyager Trailer, or download the REDARC® RedVision app to manage your REDARC® from your phone. A second REDARC® Redvision Display in the main cabin is available as an upgrade.

Your REDARC® manages the following:

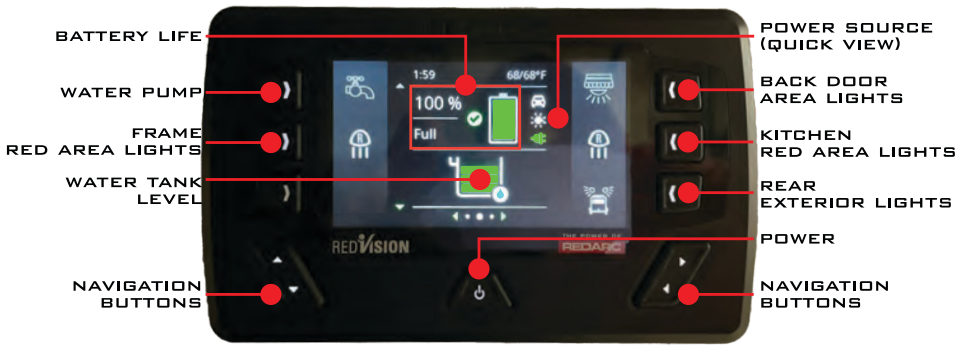
- All house circuits in trailer
- Battery charging
  - Vehicle to trailer charging
  - Solar power
  - Shore power
- Water tank level

The information provided here is not intended to replace the REDARC® RedVision/Manager30 manuals. For a comprehensive explanation of these systems, please refer to the applicable REDARC manuals (a link can be found on https://xpeditiontrailers.com/owner-resources).

3.1.3.1.1. REDARC® Display Menu

Icons will be lit in green when power to circuit is on.

HOMESCREEN PG.1



Battery Life: Here you can view the battery life percentage shown in an exact figure and as a quick-view icon. Below the percentage number, you will see one of two things:

1) If your trailer is drawing power from either your vehicle, solar power or shore power, you will see an estimate of how long until your battery is at 100%.

2) If your trailer is not drawing power from any of your power sources, it will show you an approximate time until the battery reaches 0%.

Water Pump: The water pump circuit must be turned on to supply water to either your sink or shower.

Frame Red Area Lights: This circuit turns on the 2 small red area lights that are located below the back door & 2 small red area lights located below the fenders on the driver & passenger side.

Water Tank Level: Here, you can quickly view your water tank level in your 36 gallon tank. This is helpful not only to know when to refill your tank, but also to use when filling, to view fill progress.

Power Source: shows 3 icons: a car (representing DC to DC pow-

er from the tow vehicle), a sun (representing solar power), and a plug (representing shore power). The icon that is lit indicates the source where power is currently being drawn from.

Back Door Area Lights: This circuit controls the 4 overhead LED lights located on the underside of the back door that are designed to light up your kitchen workspace.

Kitchen Red Area Lights: Turn on this circuit to use the LED light strip located underside the overhead kitchen cabinetry as well as the 2 red lights located on the underside of the back door.

Rear Exterior Lights: The exterior lights located above the kitchen slide-out door and above the fridge slide-out door are controlled by this circuit.

HOMESCREEN PG.2
(Navigate down a page)

Cold Weather Circuit: This circuit controls power to the water tank heat pad and the battery's internal heating element (lithium only).

Fridge Circuit: The circuit to the fridge/freezer is programmed to be locked in the on position to prevent accidental shut-off.

Main Cabin & Kitchen Lights: The power to all the interior main cabin lights (overhead lights & reading lights), the main cabin exterior lights located above driver and passenger side doors, the kitchen under-cabinet light as well as the kitchen low-light option (inside kitchen slide-out) are controlled by this circuit.

NOTE: The under-cabinet light strip has a power button on the unit that must also be turned on to use.

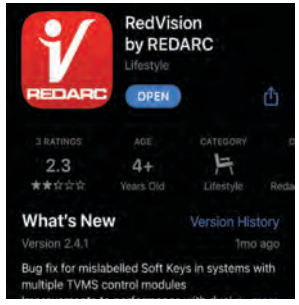
12v Circuit: Turn on this circuit to provide power to the 12v socket, located to the right of the main cabin cabinets, and the (2) USB-A & (2) USB-C ports located in the headboard. This circuit also controls the 12v roof jack (optional upgrade).

Utility Circuit: This circuit controls power to the vent fan in the main cabin, the carbon monoxide detector, as well as the light in the cargo box. WARNING: For your safety, keep Utility Circuit on when utilizing the main cabin area, to ensure carbon monoxide detector is functioning. For more information on this safety device, see "2.2.3. Carbon Monoxide Detector".

For more details, see their respective sections in this manual.

3.1.3.1.2. REDARC® Apps

1. **REDARC® RedVision App**

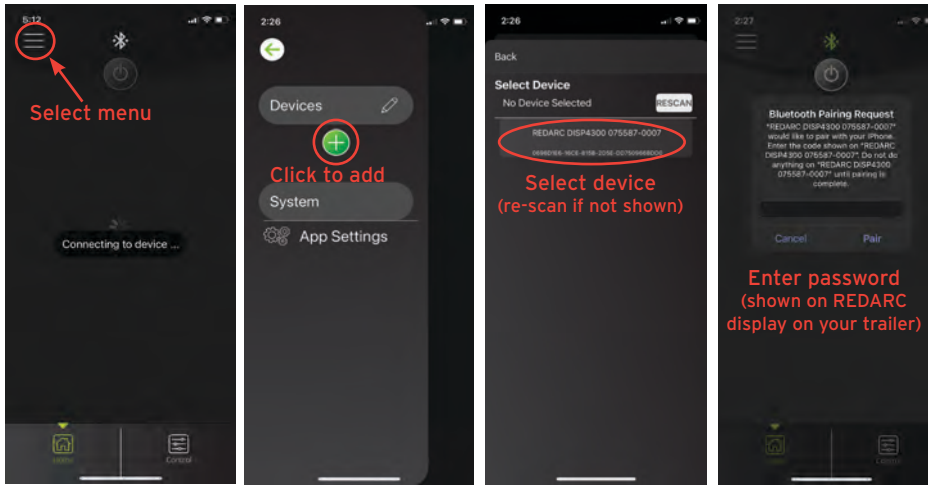


Control your REDARC® from the palm of your hand by downloading the REDARC® RedVision App (available on the Apple Store or Google Play).

To link your phone to the REDARC® system, first select Bluetooth Pairing on the REDARC display of your Voyager trailer by navigating to the page left of the homescreen (see below).

It will direct you to the screen shown below, where you can scan the QR code to download the RedVision® App. Keep this screen up on your REDARC® display for the steps below.

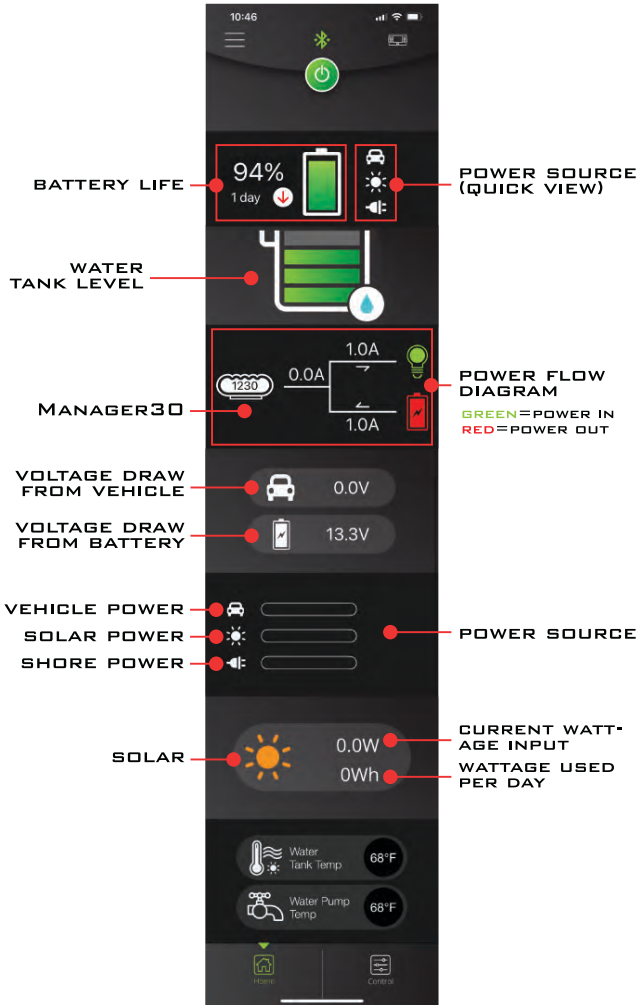
Next, open up the RedVision® App on your phone, and follow the steps below to finish pairing:



Once you complete these steps, and accept the REDARC® app disclaimer, you should see the following screen on your REDARC® display:

Once your phone has been successfully paired with your REDARC®, your trailer's information should populate in a screen similar to what is shown below. To turn on a circuit on your control screen (see image below), simply tap the icon - it will turn green to indicate the circuit is on.

HOME SCREEN:



CONTROL SCREEN:

2. REDARC® RedVision Configurator App

Download the Configurator App to make changes or to fully customize your REDARC®.

Please you consult your dealer or an Xpedition Trailers expert before making changes in the Configurator (administrator password required).

3.1.4. Power Output

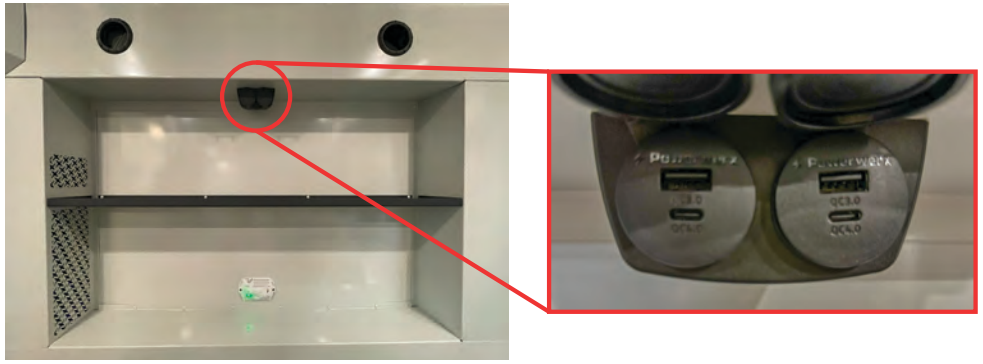
3.1.4.1. 12v Socket

The Voyager cabin is equipped with a 12v socket on the driver side of the interior cabinets.

NOTE: Turn on the 12v Circuit to utilize this socket (select the icon shown below, located on your REDARC® display).

3.1.4.2. USB-A & USB-C Charging Ports

Your Voyager comes standard with (2) USB-A ports and (2) USB-C charging ports located in the headboard area (shelves on front wall) of the main cabin.



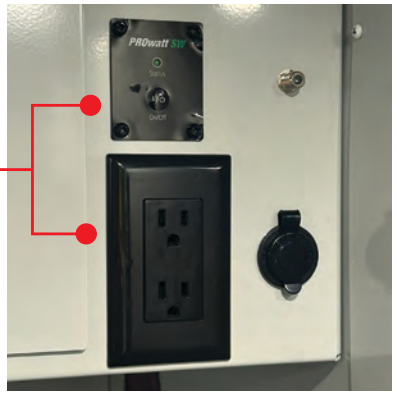
To provide power to these charging ports, the 12v circuit must be turned on (see "3.1.4.1. 12v Socket" for instructions on how to turn this circuit on).

3.1.4.3. Inverter (Opt. Upgrade)

The optional 2000W Inverter plugs directly into the Voyager's battery - so power will be flowing to it at all times as long as your battery has a charge. If you chose this option there will be a receptacle with one available 110v A/C outlet & 1 USB port in the upper right corner above your kitchen shelves.

This upgrade also includes a remote and two 110 A/C outlets located on the driver's side of the interior cabinets of the main cabin next to the 12v socket.

INVERTER REMOTE & TWO PLUG OUTLET



To ensure power is flowing to your main cabin outlets, press the power button on the remote, verifying that the green indicator light is lit (power also must be on at the receptacle in the kitchen).

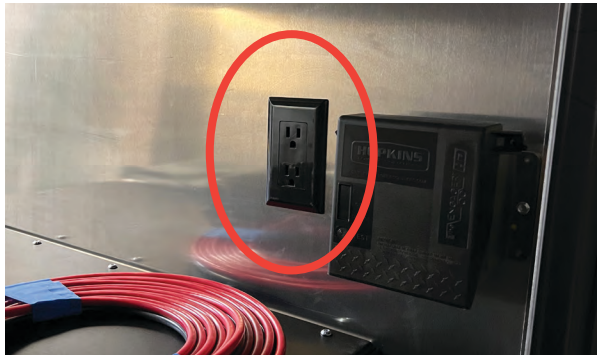
3.1.4.4. 12v Roof Jack (Opt. Upgrade)

The 12v Roof Jack option includes 3-5" lead with SAE connector to provide 10 amps of 12v power for all your rooftop power needs (tents, lights, etc). If selected as an upgrade, this feature will be located on the driver side roof, near the front of the trailer.

The 12v Roof Jack is controlled by your 12v Circuit. To energize, turn on the 12v Circuit on your REDARC® display (see "3.1.4.1. 12v Socket" for instructions on how to turn on this circuit).

3.1.4.5. Cargo Box 110v Outlet (Opt. Upgrade)

For keeping items charged and out of the way, this option adds 110v of power to your cargo box. If selected as an optional upgrade, this feature will be located on the cabin-side wall of the cargo box, driver side.



NOTE: This 110v outlet is wired to run off of the inverter, so it is only available in conjunction with the inverter option. Inverter must be turned on for cargo box 110v to work (see "3.1.4.3. Inverter (Opt. Upgrade)").

3.1.4.6. Coax (Opt. Upgrade)

This coax connection allows cable access, satellite, or other communication services in the main cabin. Input is installed near shore power, driver side rear. Output is installed in the cabin on the driver side of the main cabin cabinets.

INPUT:

OUTPUT:

3.1.5. Lighting System

The Voyager's lighting system was thoughtfully designed, with function, safety, as well as aesthetics in mind. Your trailer comes standard with the following LED lights (see more details in their respective sections in this manual).

3.1.5.1. Interior

Main Cabin & Cargo Box -

4 main cabin overhead dimmable lights
2 main cabin reading lights w/dimming & blue light functions
1 cargo box dome light

Kitchen -

1 under-cabinet led strip w/dimming & red light functions
4 back door area lights (underside door)
2 back door red area lights (underside door)
1 kitchen slide-out red area light (inside door)
1 kitchen slide-out low light option (inside door)

3.1.5.2. Exterior

2 main cabin ext. lights (over passenger & driver main cabin doors)
2 rear exterior lights (over fridge & kitchen slide-outs)
4 red area lights (2 below the back door, 2 on driver & passenger side below the fenders)

3.1.5.3. DOT

Your Voyager is also equipped with the following DOT compliant lighting to ensure proper visibility and safe travel:

Fenders -

2 amber reflectors
2 amber marker lights
2 red reflectors
2 red marker lights

Back Door -

2 red reflectors
3 red marker lights
2 led strip brake lights / turn signals / reverse lights
1 license plate light

The reflectors are not powered and can be found on the front and rear fenders on the driver and passenger side of the vehicle, as well as 2 on the bottom of the back door.

The following lighting comes on when the tow vehicle's lights are turned on & stay on in a static state: the front amber marker lights (1 on each fender), rear red marker lights (1 on each fender), the 3 red marker lights across the top of the back door, and the license plate LED light on the back door.

Two long LED strips that function as brake lights (brighten), turn signals (flash), and reverse lights (white lights at top of strip), are located on the back door of your Voyager.

To power & control the functioning of the trailer DOT lights & signals as well as controlling your trailer's brakes, your trailer is equipped with a 7-pin trailer plug. Your tow vehicle must have a 7-pin RV Blade Trailer Wiring Harness Connector, installed by a qualified professional.

The 7-pin plug provides 12v of auxiliary power to charge the emergency brake system & enables tow-vehicle to trailer control of the following (See also "3.1.1.1. DOT Lighting & Brake Control"):

- Turn Signals
- Brake Lights
- Electric Brakes
- Backup/Reverse lights
- Auxiliary Power

3.2. FUEL SYSTEM

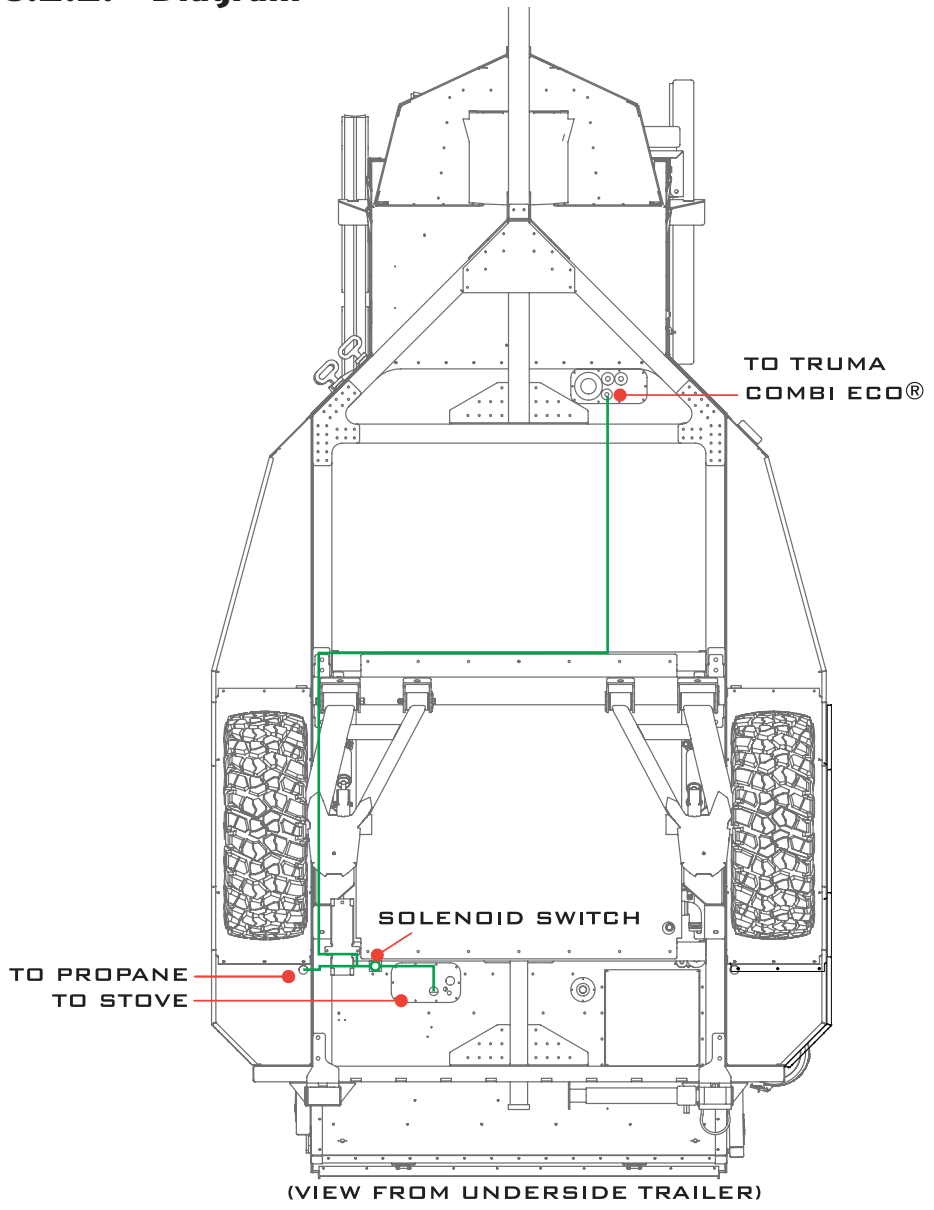
3.2.1. Overview

The Voyager's fuel system consists of propane tank(s), fuel lines, connections, a solenoid valve & rocker switch, furnace & stove.

⚠ WARNING

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 can cause fires or asphyxiation.

3.2.2. Diagram



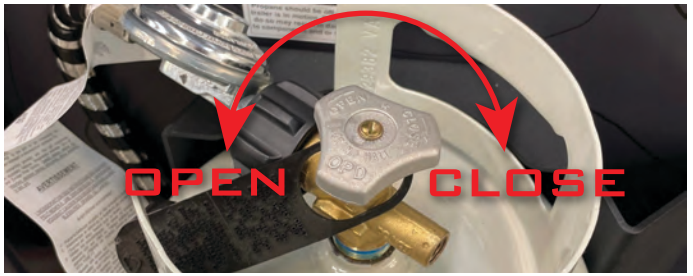
For repairs/service to your propane system, please see a qualified professional.

3.2.3. Propane

Propane is used to fuel the Voyager's Truma Combi Eco® water heater and to provide fuel for your kitchen stove. Your Voyager comes standard with one custom laser-cut logo harness & one 11 lb. propane tank, plumbed to your Truma® & stove.

A second propane tank and harness is an optional accessory, and is mounted on the driver's side on the fridge door. Please note that only the passenger side is plumbed to connect to the truma and stove.

To open/start flow of propane, turn propane hand wheel all the way to the left (see image below). To close, turn hand wheel to the right until tight. Make sure to close off propane flow completely after each use.



To bulk up on propane while also increasing visibility on either side of the trailer, an option is available to forego the standard propane setup, for a spare tire delete with dual 20 lb. plumbed tanks at the front of your trailer (see following photos).

⚠ WARNING

This propane piping system is designed for use with propane only. Do not connect natural gas to this system. Securely cap inlet when not connected for use. After turning on propane, except after normal cylinder replacement, test propane piping and connections to appliances for leakage with soapy water or bubble solution. Do not use products that contain ammonia or chlorine to test for leaks. Can lead to a fire or explosion, which could result in death or serious injury.

⚠ WARNING

Do not fill propane container(s) to more than 80 percent of capacity. A properly filled container contains approximately 80 percent of its volume as liquid propane. Overfilling propane container(s) can result in uncontrolled propane flow, which could lead to a fire or explosion and result in death or serious injury.

⚠ WARNING

Do not store propane cylinders, gasoline, flammable liquids or combustible material in the cabin area. Can cause a fire or explosion, which could result in death or serious injury.

⚠ DANGER

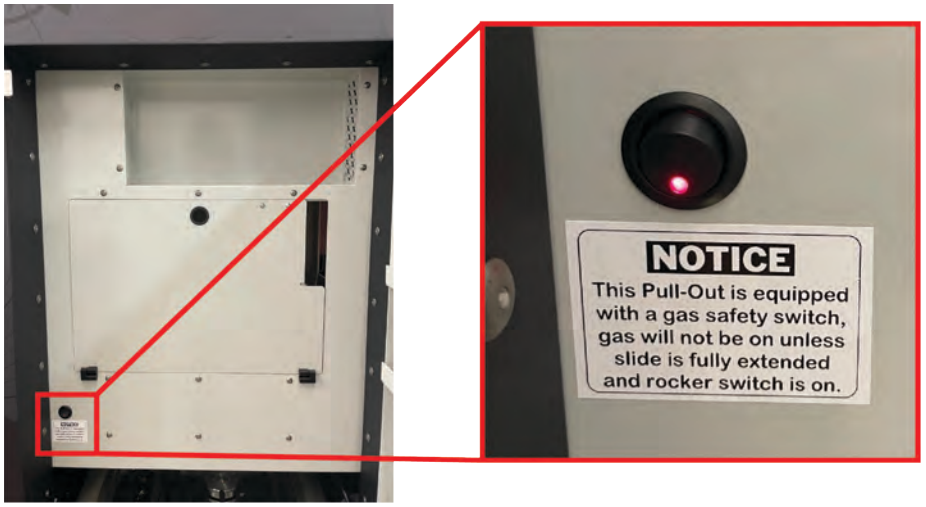
IF YOU SMELL PROPANE:

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

FAILURE TO COMPLY COULD RESULT IN EXPLOSION RESULTING IN DEATH OR SERIOUS INJURY.

3.2.4. Solenoid Valve & Rocker Switch

The solenoid valve and rocker switch in your kitchen slide-out is a safety mechanism that controls the flow of propane to your stove. A red light on the switch will indicate when the switch is on and propane is flowing (propane tank must be opened and kitchen slide-out must be fully extended).

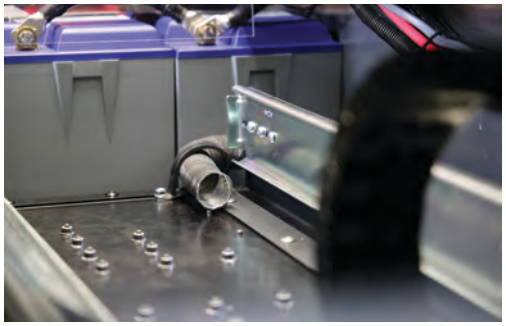


Turn the switch to the on position after opening the kitchen slide-out fully (you will hear it click into place). Turn the switch to the off position before returning the slide-out to its original position (propane will not flow when slide-out is stored, but turning off the switch will help preserve battery life).

3.2.5. Truma Combi Eco® Heater

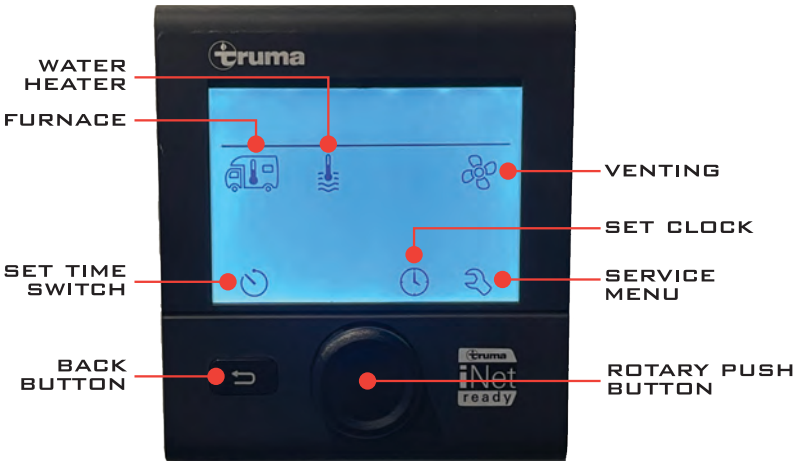
Enjoy twice the comfort with Truma Combi Eco®: furnace and water heater in one appliance. The Truma Combi Eco® heater is almost silent and extremely economical to run. The Truma® is a standard feature of the Voyager trailer and provides heat and venting to your main cabin interior and hot water.

The Truma's water heater function heats its 2.64 gallon (10L) water tank, providing hot water for your sink & shower. The Truma's furnace function keeps your cabin & even your roof-top tent warm & toasty in the winter (see "8.2.2. Heating - Truma Combi Eco®"). When the Truma's furnace is running, it pumps air into your kitchen area, heating your batteries, water lines to sink, & into the pantry (see photo below) to help keep food from freezing.



Propane must be on & flowing to the Truma Combi Eco® in order to heat air & water (see "3.2.3. Propane" for instructions on how to turn on your propane).

Truma Combi Eco® Display:



Use the Rotary Push Button: turning to scroll, and pressing to select.

Please see "3.3.6. Hot Water" for information on how to use your hot water heater, "8.2.2. Heating - Truma Combi Eco®" for information on how to use your furnace, and "8.2.1.3. Truma Combi Eco® - Venting" for venting instructions. For more information & troubleshooting on the Truma Combi Eco®, please refer to the component manufacturer's manual.

3.2.6. Stove

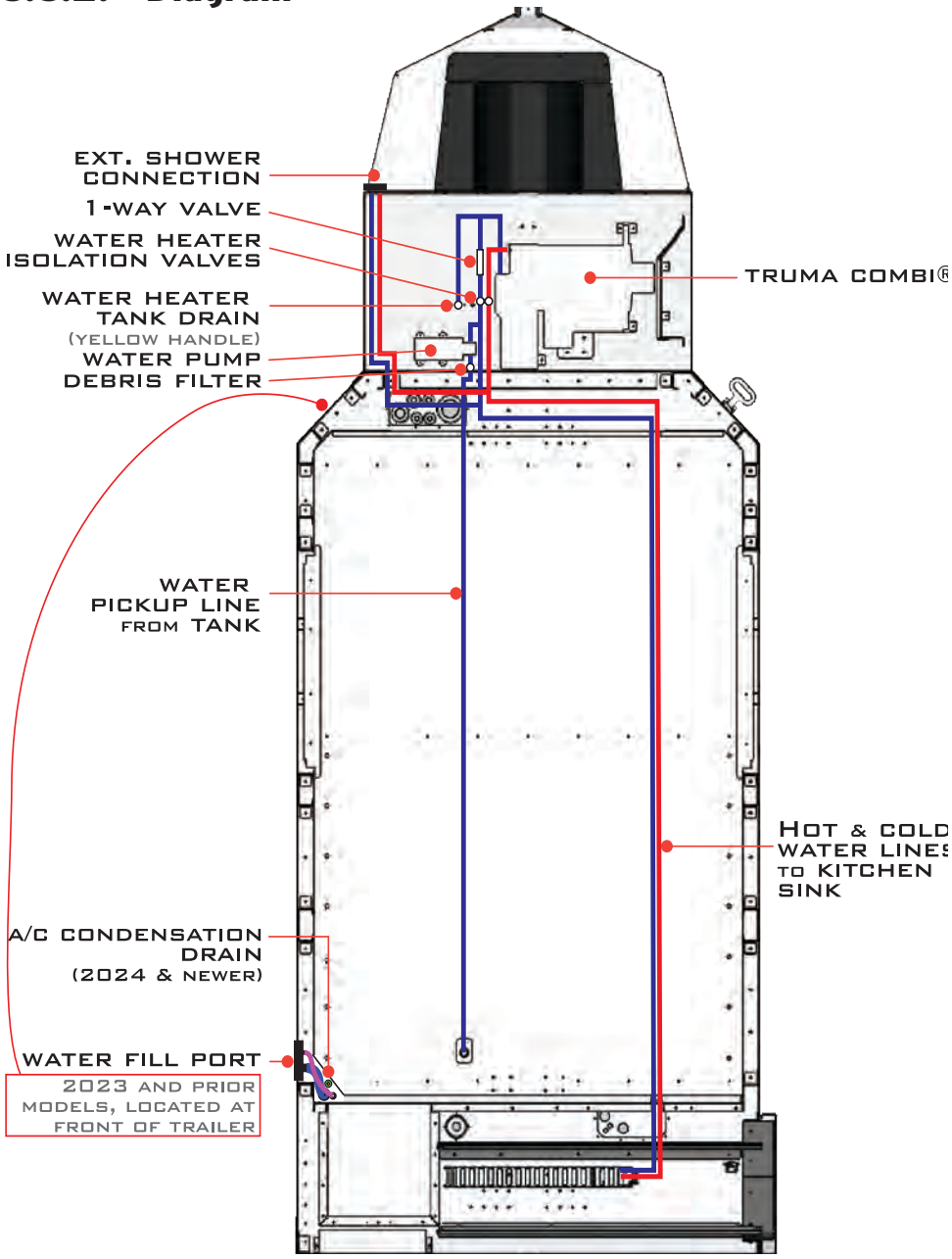
The Dometic 2-burner cook-top, located in the kitchen slide-out, is a part of your fuel system as it utilizes propane. For information on how to use your stove, please see "9.8. STOVE TOP".

3.3. WATER SYSTEM

3.3.1. Overview

The Voyager's water system consists of a fill, tank, pump, lines, connections, water heater, sink & shower.

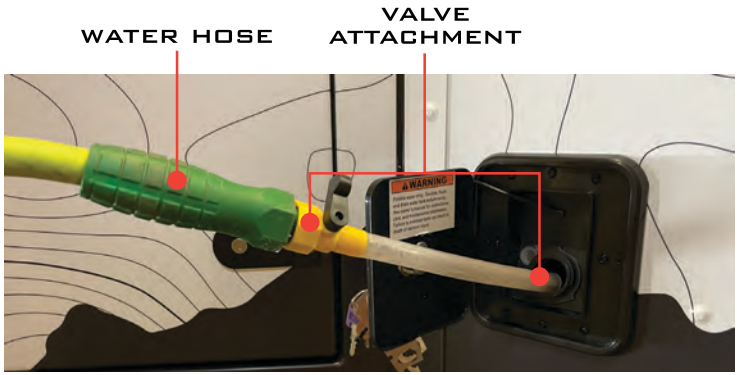
3.3.2. Diagram



3.3.3. Water Tank & Fill

Your Voyager has a generous 36 gallon water tank to give you plenty of water for those long, off-grid trips. It is recommended that you disinfect your water system prior to first use. Directions on how to disinfect the Voyager's water system can be found in "11.10.5. Water System Disinfection Instructions" of this manual. The water fill is located on the front driver side of your Voyager (2023 model & prior), or rear driver side in front of the fridge door (2024 model & later - see photo below).

To fill your water tank, unlock the water fill door, and unscrew the cap and pipe in water with your hose. To increase ease of filling, you will be provided with a water valve attachment that attaches to your hose while the other end goes directly into the water tank (see photo below).



TIP: Want potable water in your Voyager? Use an in-line filter attached to your hose when filling.

You can use your REDARC® app while filling to watch the level rise until full, and to monitor your water tank levels to make sure you never run out on the road (see diagram below).

It is recommended that you fully drain your water tank between trips to keep the accumulation of build-up on the plumbing system from occurring.

To drain your water tank, see "11.10.4. Draining the Water System".

Your water tank comes standard with a water tank heat pad that can be turned on when temperatures reach freezing (or below) to help protect the water in your tank from freezing. To engage this feature, simply turn on the Cold Weather Circuit on the REDARC® (shown below).

3.3.4. Water Pump

In order for you to access water at any location, the water pump must be turned on. Using your REDARC® display or app, turn on the water pump by selecting the button shown below. This provides power to the pump to allow it to push water through the system.

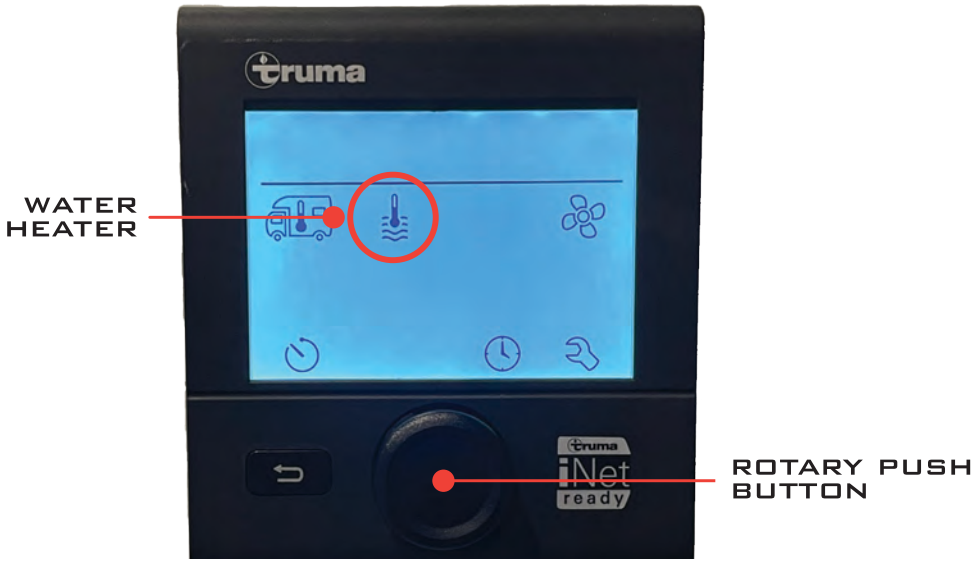
3.3.5. Cold Water

To access cold water in your sink or shower, make sure there is water in your tank, and your water pump is turned on (See "3.3.4. Water Pump"). Your Voyager trailer has a 36 gallon water tank,

which can be monitored through your REDARC® (see "3.3.3. Water Tank & Fill"). **CAUTION: Do not ingest water unless you have filled your tank with potable water.**

3.3.6. Hot Water

To access hot water, ensure there is water in your tank, water pump is on, winterization valves are set to normal operation (see "11.10.6. Water System Winterization"), propane tank is open/propane is flowing (see "3.2.3. Propane"), and the water heater is turned on through the Truma® display located in the main cabin. Water is heated through the Truma Combi Eco®, which must be powered on, with propane running to it. The Truma Combi Eco® has a 2.64 gal. (10L) water tank.



To select your heat mode, select the  icon by scrolling to the right with the rotary push button and tapping. The water heater has three heat modes: **ECO**, **HOT**, & **BOOST**. Scroll to the mode you want & tap the rotary push button to select. The icon flashes until the desired water temperature is reached.

ECO - Water temperature 104 °F (40 °C)

HOT - Water temperature 140 °F (60 °C)

BOOST - Water container content is heated quickly (water container priority) for up to 40 minutes. The water temperature is then kept at the higher level (about 144 °F (62 °C)) for two subsequent heating cycles. BOOST prioritizes heating energy to water - when the water temperature is reached, the room is heated again (if using the furnace). Water heating time from 59 °F (15 °C) to 140 °F (60 °C) takes approximately 23 minutes in hot water BOOST mode.

To turn off the water heater, simply select the water heater icon and turn the rotary button all the way to the left until you see the word OFF and then push to select.

⚠ WARNING

Water temperatures over 127 °F (52 °C) are dangerous & can cause severe burns. Water in the hot water container of the Truma Combi Eco® can become as hot as 162 °F (72 °C) during operation. If there is a malfunction, the water can reach 205 °F (96 °C). Always check water temperature before a shower or before running hands under the sink.

3.3.7. Sink

The Voyager's sink is located on the kitchen slide-out on the rear passenger side of the vehicle. The sink is a Dometic® stainless steel sink with a heat-resistant safety glass lid, providing more workspace when closed (load capacity 5 lbs, evenly distributed). The chrome faucet features a single control for fewer failure points.

The sink drain is located on the underside of the kitchen slide-out. Ensure drain pipe is pulled out and the opening is directed away from the vehicle. It is recommended that a bucket be placed underneath to catch gray water (see photo below).

Kitchen sink is not equipped with a disposal - please drain liquids only to avoid clogging. Do not pour hot oil down your sink.

For more information on how to use your sink, see "9.7. SINK".

3.3.8. Shower

The Voyager comes standard with shower port & hose and two shower heads.

SHOWER HOSE & HEAD

ADDITIONAL SHOWER HEAD

The shower port is located on the front end of your trailer on the driver's side.

For more information on how to use your shower, see "10.2.1. Shower Port / Shower Hose & Head".

4. HITCHING IT UP

4.1. OVERVIEW

Ready to hitch up your Voyager and get on the road? We want you to be safe out there and have the best experience possible so before you do, please carefully review this Section. Having a secure connection from your tow vehicle to your trailer is critical for your safety and others, and for the protection and longevity of your vehicle & trailer.

4.1.1. Glossary of Coupling Terminology

The following parts are involved in making a secure coupling between the trailer and tow vehicle:

Coupling: The trailer connecting mechanism by which the connection is actually made to the trailer hitch. This does not include any structural member, extension of the trailer frame, or brake controller.

Hitch: The connecting mechanism including the 360 articulating joint & receiver yoke for coupler.

Safety chains: Chains permanently attached to the trailer such that if the coupler connection comes loose, the safety chains can keep the trailer attached to the tow vehicle. With properly rigged safety chains, it is possible to keep the tongue of the trailer from digging into the road pavement, even if the coupler-to-hitch connection comes apart.

Trailer lighting (and braking) connector: A device that connects electrical power from the tow vehicle to the trailer. In addition, your trailer has a separate braking system. The electrical connector also supplies power to the trailer brakes from the tow vehicle.

Breakaway switch: If the trailer becomes uncoupled from the tow vehicle, the breakaway switch lanyard, attached independently to the tow vehicle hitch, will pull a pin in the emergency electrical breakaway switch on the trailer. The breakaway switch is activated by a battery on the trailer to energize the trailer brakes independently of the towing vehicle.

It is important to check the state of charge of the emergency breakaway battery before each trip. Simply pull the pin out of the switch by hand and then try to pull the trailer. If you feel a significant drag force the brakes are activated. Be sure to re-insert the pin in the breakaway switch. Also be sure to allow enough slack in the breakaway brake lanyard such that the switch will only activate (pin pulls out) if the coupler connection comes loose.

Jack: A device on the trailer that is used to raise and lower the trailer tongue.

4.2. TOW VEHICLE

4.2.1. Matching Tow Vehicle to Trailer

When equipping a new vehicle or an older vehicle to tow a trailer, ask the vehicle dealer for advice on how to outfit the tow vehicle.

Vehicle manufacturers will provide you with the maximum towing capacities of their various models, as well as the GCWR. No amount of reinforcement will give a 100 horsepower, 2,500 pound truck the towing capacity that a 300 horsepower, 5,000 pound truck has.

Trailers that weigh too much for the tow vehicle can cause stability problems, which can lead to death or serious injury. The additional strain put on the engine and drive-train may lead to serious tow vehicle maintenance problems. Do not exceed the maximum

towing capacity of your tow vehicle. The towing capacity of your tow vehicle, in terms of maximum Gross Trailer Weight (GTW) and maximum Gross Combined Weight Rating (GCWR) can be found in the tow vehicle Owner's Manual.

If the vehicle and hitch are not properly selected and matched to the Gross Vehicle Weight Rating (GVWR) of your trailer, you can cause an accident that could lead to death or serious injury. If you already have a tow vehicle, know your vehicle tow rating and make certain the trailer's rated capacity is less than or equal to the tow vehicle's rated towing capacity.

⚠ DANGER

Be sure tow vehicle is rated for the Gross Vehicle Weight Rating (GVWR) of your trailer. Use of a tow vehicle with a towing capacity less than the load rating of the trailer can result in loss of control, and may lead to death or serious injury.

4.2.2. Matching Hitch to Trailer

The Voyager uses a 360 Maxcoupler that requires a standard 2 inch hitch mount. Use of any other size or type of hitch will likely result in hitch connection being compromised & coupling failure. Hitch must be properly matched to the Gross Vehicle Weight Rating (GVWR) of the Voyager trailer. Please consult a qualified professional when choosing & installing your hitch.

⚠ WARNING

Proper selection and condition of the coupler and hitch are essential to safely towing a trailer. Hitch size must match coupler size. Be sure hitch load rating is equal to or greater than load rating of the coupler. A loss of coupling may result in death or serious injury.

⚠ DANGER

Be sure hitch is rated for the Gross Vehicle Weight Rating (GVWR) of your trailer. Use of a hitch with a load rating less than the load rating of the trailer can result in loss of control and may lead to death or serious injury.

4.3. COUPLING

Follow all of the safety precautions and instructions in this manual to ensure safety of persons, cargo, and satisfactory life of the trailer.

A secure coupling (or fastening) of the trailer to the tow vehicle is essential. A loss of coupling may result in death or serious injury. Therefore, you must understand and follow all of the instructions for coupling.

It is critical that the trailer be securely coupled to the hitch, and that the safety chains and emergency breakaway brake lanyard are correctly attached. Uncoupling may result in death or serious injury to you and to others.

⚠ WARNING

Be sure hitch components are tight before coupling a trailer to tow vehicle.

Observe hitch for wear, corrosion and cracks before coupling. Replace worn, corroded or cracked hitch components before coupling trailer to tow vehicle.

COUPLING INSTRUCTIONS:

With your trailer and tow vehicle on firm, level ground, follow these steps to couple the Voyager to your tow vehicle:

STEP 1: Connect Coupler to Tow Vehicle Receiver Hitch



Align trailer coupler to your tow vehicle hitch receiver. Lower into hitch by rotating the tongue jack, until holes are aligned (as seen above).



Insert hitch pin and after pushing through, insert small retaining pin on the other side to lock into place.

NOTE: These hitch pins feature a 1/4" retaining pin hole large enough to install a small lock if desired.

STEP 2: Connect Safety Chains


Hook chains into the receiver hitch as shown above, criss-crossing the chains. Crossing the chains assists in reducing the probability of stress, plus they also act as a cradle in the event of a separation from the vehicle.

TIP: Chains that are too long will drag on the road, creating sparks and putting unwanted wear and tear on your chains. Twist your chains prior to hooking them onto your receiver hitch to remove some of the slack, if necessary.

STEP 3: Connect Breakaway Lanyard


Loop your breakaway lanyard around your receiver hitch as shown above, using small carabiner clip to lock into place.

STEP 4: Connect 7-pin Trailer Plug

Connect your 7-pin trailer plug from your trailer to your tow vehicle. When properly connected, the cap on the vehicle-side locks the plug into place.

STEP 5: Plug-in Tow Vehicle to Trailer Charging Cable (DC to DC)

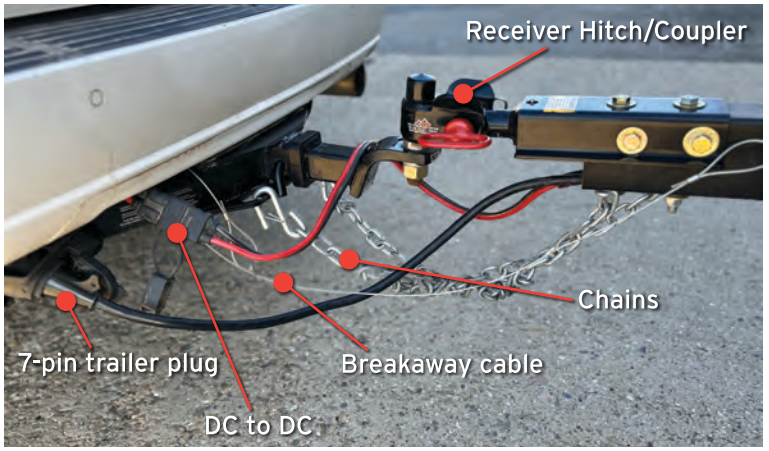
Attach DC to DC as shown above. Secure the connection by connecting the caps of each side together.

TIP: The 7-pin cable & DC to DC cable are made to a standard length and not customized to each tow vehicle - when coupling, if cable hangs too low, cross it over the tongue before attaching to keep the cable from dragging too close to the ground.

STEP 6:

Rotate jack handle to lower jack & transfer weight of the trailer to the tow vehicle. Raise jack and lock into stowed position.

Double-check that all steps have been completed and your tow vehicle to trailer connection is secure (as shown below).



Remove wheel chocks if present & drive tow vehicle forward. Your trailer is now coupled to your tow vehicle & ready for adventure!

4.3.1. Coupling Checklist

☑	COUPLING CHECKLIST
	Ensure trailer & tow vehicle are parked on a firm level surface.
	Align trailer coupler to tow vehicle hitch receiver. Lower into hitch using tongue jack, aligning the holes and then lock into place with hitch pin and retaining pin.
	Connect safety chains to tow vehicle frame, crossing first.
	Connect breakaway lanyard to tow vehicle frame, lock in place with carabiner.
	Connect 7-pin trailer plug.
	Plug-in tow vehicle to trailer charging cable (DC to DC).
	Rotate jack handle to lower jack & transfer weight of the trailer to the tow vehicle.
	Raise jack and lock into stowed position.
	Remove wheel chocks if present.
	Drive tow vehicle forward.

⚠ WARNING

An improperly coupled trailer can result in death or serious injury. Do not move the trailer until:

- **Coupler is secured and pinned to hitch.**
- **Safety chains are secured to tow vehicle.**
- **Trailer jack is fully retracted and stowed.**
- **Trailer brakes are checked.**
- **Tires and wheels are checked.**
- **Breakaway switch is connected to tow vehicle.**
- **The trailer lights are connected and checked.**
- **Cargo is secured to trailer.**

4.3.2. Adjust Hitch Height

The height of the hitch on the trailer must be adjusted so that the trailer, when loaded to rated capacity, is level while connected to the tow vehicle. A level trailer allows equal weight distribution on the axles.

Your dealer or a trailer service center can perform this adjustment, or you can use the following steps to adjust the hitch height yourself.

⚠ WARNING

Improper hitch height adjustment can result in overloaded tires, blowout, and loss of control, leading to death or serious injury.

Adjust the hitch height so that the loaded trailer is level.

ADJUSTING HITCH HEIGHT INSTRUCTIONS:

1. Connect trailer to tow vehicle and load the trailer to rated capacity (See Section "5. LOADING IT UP").

2. Park the tow vehicle and trailer on a firm level surface.

3. Stand away from the trailer and visually verify if the trailer is level front-to-rear. If the tongue of the trailer is higher than the rear, the hitch must be lowered. If the tongue of the trailer is lower than the rear, the hitch must be raised.

4. Uncouple trailer from tow vehicle (See Section "4.4. UNCOUPLING").

5. Remove the lock nut and bolt on hitch. Discard lock nut. Inspect bolt for damage and replace if necessary. Contact your dealer for the correct size and grade of bolt needed.

⚠ WARNING

Used lock nuts are prone to loosen, resulting in the hitch separating from the trailer, which can lead to death or serious injury.

NEVER re-use a lock nut.

Use new lock nuts each time the hitch height is adjusted. Contact your dealer for the proper grade and size of lock nut.

6. Raise or lower the hitch as necessary.

7. Install bolt and a new lock nut.

8. Tighten lock nut to torque specified by your dealer.

9. Couple the trailer to the tow vehicle and verify that the trailer is level front to rear. Adjust if necessary.

10. Unload trailer (See "5.7. UNLOADING YOUR TRAILER").

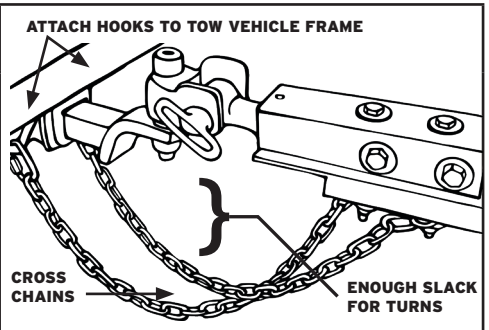
4.3.3. Proper Use Of Safety Chains

Safety chains are provided so that control of the trailer can be maintained if your trailer comes loose from the hitch.

⚠ WARNING

ALWAYS use safety chains. Chains hold trailer if connection fails. You must:

1. CROSS chains underneath coupler.
2. ALLOW slack for trailer to turn, but do not allow chains to drag.
3. ATTACH chain hooks securely to tow vehicle frame.



⚠ WARNING

Improper rigging of the safety chains can result in loss of control of the trailer and tow vehicle, leading to death or serious injury, if the trailer uncouples from the tow vehicle.

Cross chains underneath hitch and coupler with enough slack to permit turning and to hold tongue up, if the trailer comes loose.

Fasten chains to frame of tow vehicle.

Do not fasten chains to any part of the hitch unless the hitch has holes or loops specifically for that purpose.

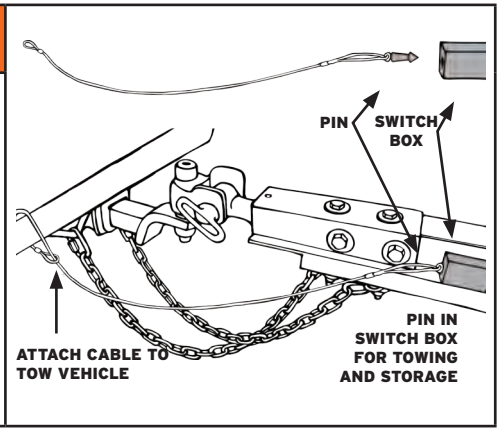
4.3.4. Proper Connection Of Breakaway Cable

Your trailer is equipped with a breakaway brake system that can apply the brakes on your trailer if your trailer comes loose from the hitch. The breakaway brake system, including battery, must be in good condition and properly rigged to be effective.

⚠ WARNING

Trailer can roll if it comes loose. Electric safety brake applies when cable pulls pin out of the switch box:

1. PULL hard to get pin out of the switch box.
2. CHECK brake by PULLING TRAILER with tow vehicle.
3. ATTACH pin CABLE to tow vehicle so pin will be pulled out if trailer separates.
4. Promptly REPLACE pin in switch box.



⚠ WARNING

An ineffective or inoperative breakaway brake system can result in a runaway trailer, leading to death or serious injury if the coupler or hitch fails.

Breakaway lanyard must be connected to the tow vehicle, NOT to any part of the hitch.

Before towing trailer, test the function of the breakaway brake system. If the breakaway brake system is not working do not tow the trailer, have it serviced or repaired.

4.4. UNCOUPLING

UNCOUPLING INSTRUCTIONS:

Follow these steps to uncouple trailer from the tow vehicle:

1. Park the trailer on a firm level surface and block trailer tires.

2. Disconnect tow vehicle to trailer charging cable (DC to DC).

3. Disconnect 7-pin trailer plug.

4. Disconnect breakaway brake switch lanyard.

5. Disconnect safety chains from tow vehicle.

6. Unlock the coupler by removing retaining pin & hitch pin.

7. Before extending jack, make certain the ground surface below the jack pad will support the tongue load.

8. Rotate jack handle to extend the jack and transfer the weight of the trailer tongue to the jack.

9. Raise the trailer coupler above the tow vehicle hitch.

10. Drive tow vehicle forward.

4.4.1. Uncoupling Checklist

☑	UNCOUPLING CHECKLIST
	Park trailer on firm level surface.
	Block trailer tires.
	Disconnect tow vehicle to trailer charging cable (DC to DC).
	Disconnect 7-pin trailer plug.
	Disconnect breakaway cable from tow vehicle.
	Disconnect safety chains from tow vehicle.
	Unlock the coupler by removing hitch pin.
	Before extending jack, check ground surface to ensure jack pad will support tongue load.
	Rotate jack handle to extend jack & transfer weight of the trailer tongue to jack.
	Raise trailer coupler above the tow vehicle hitch.
	Drive tow vehicle forward.

5. LOADING IT UP

5.1. OVERVIEW

Improper trailer loading causes many accidents and deaths. To safely load a trailer, you must consider:

- Overall load weight.
- Load weight distribution.
- Proper tongue weight.
- Securing the load properly.

To determine that you have loaded the trailer within its rating, you must consider the distribution of weight, as well as the total weight of the trailer and its contents. The Voyager's axle carries most of the total weight of the trailer and its contents (Gross Vehicle Weight, or "GVW"). The remainder of the total weight is carried by the tow vehicle hitch.

It is essential for safe towing that the trailer tongue and tow vehicle hitch carry the proper amount of the loaded trailer weight, otherwise the trailer can develop an undesirable sway at towing speeds, or the rear of the towing vehicle can be overloaded.

The load distribution must be such that no component part of the trailer is loaded beyond its rating. You must consider the rating of the tires, wheels and suspension.

Towing stability also depends on keeping the center of gravity as low as possible. Load heavy items on the floor and over the axle. When loading additional items, be sure to maintain even side-to-side weight distribution and proper tongue weight. The total weight of the trailer and its contents must never exceed the total weight rating of the trailer (Gross Vehicle Weight Rating, or "GVWR").

⚠ WARNING

Do not transport flammable, explosive, poisonous or other dangerous materials on your trailer. The exception is fuel in the tank of a vehicle or equipment being hauled.

Do not transport people in your trailer. Besides putting their lives at risk, the transport of people in a trailer is illegal.

⚠ DANGER

You can die or incur brain damaged by Carbon Monoxide. Do not operate a generator, portable grills, portable heaters, portable lanterns or portable stoves, etc., inside the trailer.

5.2. PREPARING YOUR TRAILER FOR LOADING

1. Inspect trailer for loose items.

2. Inspect the tie downs and roof rack rails, etc. for damage, looseness or signs of bending before loading the trailer.

3. Park the tow vehicle and trailer on a firm and level surface.

⚠ WARNING

Damaged or loose roof rack components can break, allowing cargo to become loose.

Loose cargo can shift the center of gravity, and result in loss of control of the trailer.

Inspect roof rack components, tie downs, etc., before loading cargo. Do not use damaged or loose roof rack components, tie downs, etc. to secure cargo.

⚠ WARNING

Shifting cargo can result loss of control of the trailer, and can lead to death or serious injury. Tie down all loads with proper sized fasteners, straps, etc.

5.3. DETERMINING LOAD LIMIT - TRAILER

Determining the correct load limits of a trailer includes more than understanding the load limits of the tires alone. On all Voyager trailers there is a Federal Certification placard/VIN label that is located on the left (road) side of the tongue. This certification/VIN label will indicate the trailer's Gross Vehicle Weight Rating (GVWR). This is the most weight the fully loaded trailer can weigh. It will also provide the Gross Axle Weight Rating (GAWR). This is the most a particular axle can weigh.

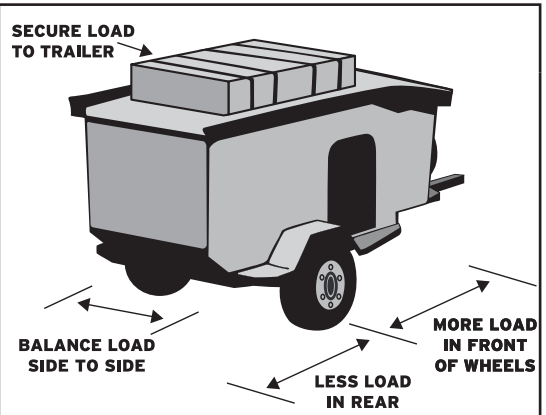
All Voyager trailers have a GVWR of 10,000 pounds or less; therefore you will find a vehicle placard located on the lower right side of the driver side cabin door. This placard provides tire information as well as a statement regarding maximum cargo capacity.

Cargo can be added to the trailer, up to the maximum weight specified on the tongue placard. The combined weight of the cargo is provided as a single number. Remember: the total weight of a fully loaded trailer can not exceed the stated GVWR.

⚠ WARNING

Improper loading can cause trailer sway and sudden loss of control. You must:

- **Make certain weight does not exceed trailer's capacity (GVWR - Gross Vehicle Weight Rating).**
- **Load heavier items in front of wheels.**
- **Load evenly side to side.**
- **SECURE load to trailer.**



When loading your cargo, be sure it is distributed evenly to prevent overloading front to back and side to side. Heavy items should be placed low and as close to the axle position as reasonable. Too many items on one side may overload a tire. The best way to know the actual weight of the vehicle is to weigh it at a public scale. Talk to your dealer to discuss the weighing methods needed to capture the various weights related to the trailer. This would include the weight empty or unloaded, wheel, hitch, and total weight.

5.3.1. Loading Capacities

Below is a list of load capacities for each applicable area of the trailer. Be aware that loading each area to its limit will exceed the GVWR, or total maximum weight capacity, and can overload the tongue weight (also see "5.5. TONGUE WEIGHT").

TRAILER LOCATION		LOAD CAPACITY LBS. *(evenly distributed)*
MAIN CABIN	*MAIN CABIN*	*800*
	MAIN CABIN CABINETRY	*40*
	MAIN CABIN WALL SHELVING	*10 PER SHELF*
	CARGO BOX SHELF	*150*
KITCHEN	*UPPER KITCHEN CABINETRY*	*40*
	KITCHEN WALL SHELVING	*10*
	KITCHEN PANTRY	*25 PER CABINET/DRAWER*
	DRAWER CUTTING BOARD	*10*
	KITCHEN DOOR ORGANIZER	*5 PER SHELF*
	PANTRY PASS-THRU	*5*
	SINK LID/COVER	*5*
	STOVE TOP	*40*
	STAINLESS STEEL COUNTERTOP	*40*
	FRIDGE DROP-DOWN PREP COUNTER	*8*
ROOF / EXTERIOR	*FOLDING STEPS*	*225 PER STEP*
	CARGO BOX ROOF	*100*
	ROOF RACK	*1000*
	RECEIVER HITCH	*300*

5.4. DETERMINING LOAD LIMIT - TOW VEHICLE

1. Locate the statement, "The combined weight of occupants and cargo should never exceed XXX lbs," on your vehicle's placard.

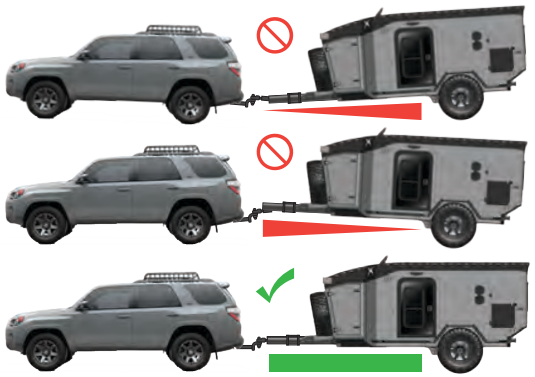
2. Determine the combined weight of the driver and passengers who will be riding in your vehicle.

3. Subtract the combined weight of the driver and passengers from XXX kilograms or XXX pounds.

4. The resulting figure equals the available amount of cargo and luggage capacity. For example, if the "XXX" amount equals 1400 lbs and there will be five 150 lb passengers in your vehicle, the amount of available cargo & luggage capacity is 650 lbs (1400-750 (5 x 150) = 650 lbs).

5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage capacity calculated in previous step.

6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult the tow vehicle's manual to determine how this weight transfer reduces the available cargo and luggage capacity of your vehicle.



5.5. TONGUE WEIGHT

It is critical to have a portion of the trailer load carried by the tow vehicle. That is, the trailer tongue must exert a downward force on the hitch. This is necessary for two reasons. First, the proper amount of tongue weight is necessary for the tow vehicle to be able to maintain control of the tow vehicle/trailer system. If, for example, the tongue exerts an upward pull on the hitch, instead of pushing down on it (because the trailer is overloaded behind its axle), the rear wheel of the tow vehicle can lose traction or grip and cause loss of control. Also, even if there is some weight on the tongue, but not enough, the trailer can become unstable at high speeds. Remember, the faster you go, the more likely the trailer is to sway when improperly loaded.

If there is too much tongue weight, the tow vehicle is prone to jack-knife. When the front wheels of the vehicle are too lightly loaded, it can cause loss of steering control and traction. In addition to tow vehicle control, tongue weight is necessary to ensure that the trailer axle does not exceed its Gross Axle Weight Rating (GAWR).

As a rule of thumb tongue weight percentage of total weight of the trailer plus its cargo (Gross Trailer Weight, or "GTW") should be between 8-12%. For example, a trailer with a loaded weight of 3,500 pounds, should have (280-420 lbs) on the hitch.

After loading, be sure to check that the axle is not overloaded. Uneven left/right load distribution can cause tire, wheel, axle or structural failure. Be sure your trailer is evenly loaded left/right. Towing stability also depends on keeping the center of gravity as low as possible.

5.5.1. Checking Tongue Weight

To check tongue weight, the tow vehicle and trailer must be on level ground, as when the trailer is being towed.

Take your trailer to a truck stop or grain elevator where there is a certified scale. Place your tow vehicle only onto the scale & get its weight. This weight must be less than your tow vehicle's GVWR.

Pull your trailer onto the scale and uncouple it from your tow vehicle, leaving just the trailer on the scale. Get a ticket which lists the total trailer weight. Re-connect your trailer to your tow vehicle and then drive the tow vehicle wheels off the scale, just leaving the trailer axle on the scale. Get a ticket which lists the trailer's axle weight. Simply subtract the axle weight from the total weight to determine the hitch weight.

While you are at the scale, you should weigh the entire combination vehicle. This result should be less than the Gross Combined Weight Rating (GCWR) for your towing vehicle. Some scales allow you to get individual axle weights also. If this is possible, get the tow vehicles front and rear axle weights to make sure they are in the same proportion as the tow vehicle alone, and that the rear axle is not overloaded.

5.6. LOADING HAZARDS

5.6.1. Improper Loading

The total weight of the load you put on the trailer, plus the empty weight of the trailer itself, must not exceed the trailer's Gross Vehicle Weight Rating (GVWR).

If you do not know the empty weight of the trailer plus the cargo weight, you must weigh the loaded trailer at a commercial scale.

You must distribute the load in the trailer such that the load on the axle does not exceed the Gross Axle Weight Rating (GAWR).

On the Tire & Loading Information Placard, mounted next to the Certification/VIN label, the cargo capacity weight stated is only a close estimate. The GVWR and GAWR are listed on the Certification/VIN label located on the front left side of the tongue.

⚠ WARNING

An overloaded trailer can result in failure or loss of control of the trailer, leading to death or serious injury. Never load a trailer so that the weight on any tire exceeds its rating.

Never exceed the trailer Gross Vehicle Weight Rating (GVWR) or axle Gross Axle Weight Rating (GAWR).

5.6.2. Unsafe Load Distribution

Improper front/rear load distribution can lead to an unstable trailer or poor tow vehicle handling. Poor trailer stability results from tongue weights that are too low, and poor tow vehicle stability results from tongue weights that are too high. Refer to "5.5. TONGUE WEIGHT" for more information.

⚠ WARNING

Improper tongue weight (load distribution) can result in loss of control of the trailer, leading to death or serious injury. Make certain that tongue weight is within the allowable range.

BE SURE TO:

- **Distribute the load evenly, right and left.**
- **Keep the center of gravity low.**
- **Distribute the load front-to-rear to provide proper tongue weight.**

5.6.3. Shifting Cargo

Since the trailer "ride" can be bumpy and rough, you must secure the cargo so that it does not shift while the trailer is being towed.

⚠ WARNING

A shifting load can result in failure, or to loss of control of the trailer, and can lead to death or serious injury.

You must tie down all loads with proper sized fasteners, chains, straps, etc. to prevent the load from shifting while towing.

5.6.4. Inappropriate Cargo

Your trailer is designed to carry cargo and personal items common to camping and overlanding. It is not designed to carry people, do not attempt to ride inside the trailer while in motion.

⚠ WARNING

Do not operate a generator, portable grills, portable heaters, portable lanterns or portable stoves inside the trailer. You can die or be brain damaged by Carbon Monoxide.

Never transport people in your trailer. Besides putting their lives at risk, the transport of people in a trailer is illegal.

Do not haul livestock in an enclosed trailer. Use a trailer designed to haul livestock.

5.7. UNLOADING YOUR TRAILER

Ensure that the weight distribution is balanced as much as possible when unloading, to maintain the stability of the vehicle. It is crucial to keep the vehicle stable at all times. When unloading your trailer, verify that the brakes have been applied and all stabilizers have been utilized. Make any tie downs that have been loosed by removing cargo/unloading items are re-secured before returning to the road.

6. TOWING

6.1. PRE-TOW CHECKLIST

Before towing, double-check all of these items:

☑	PRE-TOW CHECKLIST ITEM
	Tires, wheels and lug nuts. (See "6.3.3. Worn Tires, Loose Wheels And Lug Nuts")
	Tire pressure. Inflate tires on trailer and tow vehicle to the pressure stated on the Certification / VIN label. (See "6.4.2. Trailer Tire Safety Information")
	Coupler secured and locked. (See "4.3. COUPLING")
	Safety chains properly rigged to tow vehicle, not to hitch or ball. (See "4.3.3. Proper Use Of Safety Chains")
	Test Tail, Stop, and Turn Lights.
	Test trailer brakes. (See "7. BREAKING IN YOUR TRAILER")
	Safety breakaway lanyard fastened to tow vehicle, not to safety chains. (See "4.3.4. Proper Connection Of Breakaway Cable")
	Cargo properly loaded, balanced and tied down. (See "5. LOADING IT UP")
	Tongue weight and weight distribution set-up. (See "5. LOADING IT UP")
	Fire extinguisher in place & functioning
	Flares & reflectors in case of emergency.

6.2. TRAILER TOWING GUIDE

Driving a vehicle with a trailer in tow is quite a bit different from driving the same vehicle without a trailer in tow. Acceleration, maneuverability, and braking are all diminished with a trailer in tow. It takes longer to get up to speed; you need more room to turn and pass, and more distance to stop when towing a trailer.

You will need to spend time adjusting to the different feel and maneuverability of the tow vehicle with a loaded trailer. Because of the significant differences in all aspects of maneuverability when towing a trailer, the hazards and risks of injury are also much greater than when driving without a trailer.

You are responsible for keeping your vehicle and trailer in control, and for all the damage that is caused if you lose control of your vehicle and trailer.

Find an open area with little or no traffic for your first practice. Before you start towing the trailer, you must follow all of the instructions for inspection, testing, loading and coupling. Also, before you start towing, adjust the mirrors so you can see the trailer as well as the area to the rear of it.

Drive slowly at first, 5 mph or so, and turn the wheel to get the feel of how the tow vehicle and trailer combination responds. Next, make some right and left hand turns. Watch in your side mirrors to see how the trailer follows the tow vehicle. Turning with a trailer attached requires more room.

Stop the rig a few times from speeds no greater than 10 mph. Try using different combinations of trailer/electric brake and tow vehicle brake. Note the effect that the trailer brakes have when they are the only brakes used. When properly adjusted, the trailer brakes will come on just before the tow vehicle brakes.

It will take practice to learn how to back up a tow vehicle with a trailer attached. Take it slow. Before backing up, get out of the tow vehicle and look behind the trailer to make sure that there are no obstacles.

Some drivers place their hands at the bottom of the steering wheel, & while the tow vehicle is in reverse, "think" of the hands as being on the top of the wheel. When the hands move to the right (counter-clockwise, as you would do to turn the tow vehicle to the left when moving forward), the rear of the trailer moves to the right.

Conversely, rotating the steering wheel clockwise with your hands at the bottom of the wheel will move the rear of the trailer to the left, while backing up. Be careful not to allow the trailer to turn too much, because it will hit the rear of the tow vehicle. To straighten the rig, either pull forward, or turn the steering wheel in the opposite direction.

6.3. TOWING HAZARDS

6.3.1. Driving Too Fast

With ideal road conditions, the maximum recommended speed for safely towing a trailer is 55 mph. Driving too fast can cause the trailer to sway, thus increasing the possibility for loss of control. Also your tires may overheat, increasing the possibility of a blowout.

⚠ WARNING

Driving too fast for conditions can result in loss of control and cause death or serious injury. Adjust speed down when towing a trailer.

6.3.2. Adjust Driving When Towing Trailer

When towing a trailer, you will have decreased acceleration, increased stopping distance, and increased turning radius. The trailer will change the handling characteristics of the tow vehicle, making it more sensitive to steering inputs and more likely to be pushed around in windy conditions or when being passed by large vehicles. In addition, you will need a longer distance to pass, due to slower acceleration and increased length.

Here are some tips when towing:

- When encountering trailer sway, take your foot off the accelerator, and steer as little as possible in order to stay on the road. Use small "trim-like" steering adjustments. Do not attempt to steer out of the sway; you'll only make it worse. Also do not apply the tow vehicle brakes to correct trailer swaying. On the other hand, application of the trailer brakes alone will tend to straighten out the combination, especially when going downhill.

- Check rear-view mirrors frequently to observe trailer and traffic.

- Be aware of trailer height, especially when approaching bridges, roofed areas and trees.

- Be alert for slippery conditions. You are more likely to be affected by slippery road surfaces when driving a tow vehicle with a trailer, than driving a tow vehicle without a trailer.

- Anticipate the trailer "swaying." Swaying can be caused by excessive steering, wind gusts, roadway edges, or by the trailer reaction to the pressure wave created by passing trucks and buses.

- Use lower gear when driving down steep or long grades. Use the engine and transmission as a brake. Do not ride the brakes, as they can overheat and become ineffective. This is called brake fade.

6.3.3. Worn Tires, Loose Wheels And Lug Nuts

Inspect all trailer tires before each tow. If a tire has a bald spot, bulge, cut, cracks, or is showing any cords, replace the tire before towing.

If a tire has uneven tread wear, take the trailer to a trailer service center for diagnosis. Uneven tread wear can be caused by tire imbalance, axle misalignment or incorrect inflation. Tires with too little tread will not provide adequate frictional forces on wet roadways and can result in loss of control, leading to death or serious injury.

Improper tire pressure causes increased tire wear and may reduce trailer stability, which can result in a tire blowout or possible loss of control. Therefore, before each tow you must also check the tire pressure.

The proper tire pressure is listed on the Certification/VIN label, mounted on the front left side of the trailer, and should be checked when tires are cold. Allow 3 hours cool-down after driving as much as 1 mile at 40 mph before checking tire pressure.

⚠ WARNING

Inflate tires to pressure stated on the Certification / VIN label. Make sure of proper tire pressure before towing trailer. Improper tire pressure may cause unstable trailer. Blowout and loss of control may occur.

Death or serious injury can result.

The tightness of the wheel nuts or bolts is very important in keeping the wheels properly seated to the hub. Before each tow, check to make sure they are tight.

⚠ WARNING

TORQUE WHEEL LUGS using only a torque wrench at settings stated by the manufacturer. Torque wheel lugs before each trip.

DO NOT OVER-TORQUE WHEELS or damage to wheel/lugs can occur.

⚠ WARNING

Metal creep between the wheel rim and wheel nuts or bolts may cause rim to loosen. Tighten lug nuts or bolts before each tow. Death or injury can occur if wheel comes off.

The proper tightness (torque) for wheel nuts or bolts and tightening sequence is listed in the "11.6.4. Lug Nuts" section of this manual. Use a torque wrench to tighten the lug nuts and use the criss-cross star pattern sequence. Improper tightening of the lug nuts voids the axle warranty.

Wheel nuts or bolts are also prone to loosen after first being assembled. When driving a new trailer (or after wheels have been remounted), check to make sure they are tight after the first 10, 25 and 50 miles of driving and before each tow thereafter.

Failure to perform this check can result in a wheel separating from the trailer and a crash, leading to death or serious injury.

⚠ WARNING

Wheel nuts or bolts are prone to loosen after being first assembled. Check wheel nuts or bolts for tightness on a new trailer, after re-mounting a wheel at 10, 25 and 50 miles, and prior to each tow.

Inadequate wheel nut or bolt torque can cause a wheel to separate from the trailer, leading to death or serious injury.

6.3.4. Inoperable Brakes Or Lights

Your trailer has electric brakes, so your tow vehicle should have an electric brake controller that sends power to the trailer brakes.

Before towing the trailer, you must operate the brake controller while trying to pull the trailer in order to confirm that the electric brakes operate. While towing the trailer at less than 5 mph, manually operate the electric brake controller in the tow vehicle cab. You should feel the operation of the trailer brakes.

Be sure that the electric brakes and all of the lights on your trailer are functioning properly before towing the trailer. Electric brakes and lights on a trailer are controlled via a connection to the tow vehicle, a 7-Way multi-pin electrical connector (for more info, see "3.1.1.1. DOT Lighting & Brake Control" and "3.1.5.3. DOT").

You must have mirrors that allow you to safely observe approaching traffic. While the Voyager Trailer is relatively narrow standard mirrors may not provide adequate visibility for viewing traffic to the sides and rear of your trailer. Make sure you have good visibility on either sides and rear of the trailer before towing.

⚠ WARNING

Improper electrical connection between tow vehicle & trailer will result in inoperable lights & electric brakes, & can lead to collision.

Before each tow, check that electric brakes work by operating the brake controller inside the tow vehicle & check that all lights & turn signals work.

6.4. TIRES

6.4.1. Glossary of Tire Terminology

Accessory weight: The combined weight (in excess of those standard items which may be replaced) of automatic transmission, power steering, power brakes, power windows, power seats, radio & heater, to the extent that these items are available as factory-installed equipment (whether installed or not).

Bead: The part of the tire that is made of steel wires, wrapped or reinforced by ply cords & that is shaped to fit the rim.

Bead separation: The breakdown of the bond between components in the bead.

Bias ply tire: A pneumatic tire in which the ply cords that extend to the beads are laid at alternate angles substantially less than 90 degrees to the centerline of the tread.

Carcass: The tire structure, except tread and sidewall rubber which, when inflated, bears the load.

Chunking: The breaking away of pieces of the tread or sidewall.

Cold inflation pressure: The pressure in the tire before you drive.

Cord: The strands forming the plies in the tire.

Cord separation: The parting of cords from adjacent rubber compounds.

Cracking: Any parting within the tread, sidewall, or inner liner of the tire extending to cord material.

CT: A pneumatic tire with an inverted flange tire & rim system in which the rim is designed with rim flanges pointed radially inward & the tire is designed to fit on the underside of the rim in a manner that encloses the rim flanges inside the air cavity of the tire.

Curb weight: The weight of a motor vehicle with standard equipment including the maximum capacity of fuel, oil, & coolant, &, if so equipped, air conditioning & additional weight optional engine.

Extra load tire: A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire.

Groove: The space between two adjacent tread ribs.

Gross Axle Weight Rating: The maximum weight that any axle can support, as published on the Certification/VIN label on the front left side of the trailer. Actual weight determined by weighing each axle on a public scale, with the trailer attached to the towing vehicle.

Gross Vehicle Weight Rating: The maximum weight of the fully loaded trailer, as published on the Certification/VIN label. Actual weight determined by weighing trailer on a public scale, without being attached to the towing vehicle.

Hitch Weight: The downward force exerted on the hitch ball by the trailer coupler.

Innerliner: The layer(s) forming the inside surface of a tubeless tire that contains the inflating medium within the tire.

Innerliner separation: The parting of the innerliner from cord material in the carcass.

Intended outboard sidewall: The sidewall that contains a whitewall, bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire or the outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle.

Light truck (LT) tire: A tire designated by its manufacturer as primarily intended for use on lightweight trucks or multipurpose passenger vehicles. May be used on trailers.

Load rating: The maximum load that a tire is rated to carry for a given inflation pressure.

Maximum load rating: The load rating for a tire at the maximum permissible inflation pressure for that tire.

Maximum permissible inflation pressure: The maximum cold inflation pressure to which a tire may be inflated.

Maximum loaded vehicle weight: The sum of curb weight, accessory weight, vehicle capacity weight, & production options weight.

Measuring rim: The rim on which a tire is fitted for physical dimension requirements.

Non-pneumatic rim: A mechanical device which, when a non-pneumatic tire assembly incorporates a wheel, supports the tire, & attaches, either integrally or separably, to the wheel center member & upon which the tire is attached.

Non-pneumatic spare tire assembly: A non-pneumatic tire assembly intended for temporary use in place of one of the pneumatic tires and rims that are fitted to a passenger car in compliance with the requirements of this standard.

Non-pneumatic tire assembly: A non-pneumatic tire, alone or in combination with a wheel or wheel center member, which can be mounted on a vehicle.

Normal occupant weight: This means 68 kg (150 lbs) times the number of occupants specified in the second column of Table I of 49 CFR 571.110 (https://www.ecfr.gov/current/title-49/subtitle-B/chapter-V/part-571/subpart-B/section-571.110) & dividing by 2.

Occupant distribution: The distribution of occupants in a vehicle as specified in the third column of Table I of 49 CFR 571.110.

Open splice: Any parting at any junction of tread, sidewall, or innerliner that extends to cord material.

Outer diameter: The overall diameter of an inflated new tire.

Overall width: The linear distance between the exteriors of the sidewalls of an inflated tire, including elevations due to labeling, decorations, or protective bands or ribs.

Pin Weight: The downward force applied to the 5th wheel or gooseneck ball, by the trailer kingpin or gooseneck coupler.

Ply: A layer of rubber-coated parallel cords.

Ply separation: A parting of rubber compound between adjacent

plies.

Pneumatic tire: A mechanical device made of rubber, chemicals, fabric and steel or other materials, that, when mounted on an automotive wheel, provides the traction and contains the gas or fluid that sustains the load.

Production options weight: The combined weight of those installed regular production options weighing over 2.3 kg (5 lbs) in excess of those standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, & special trim.

Radial ply tire: A pneumatic tire in which the ply cords that extend to the beads are laid at substantially 90 degrees to the centerline of the tread.

Recommended inflation pressure: This is the inflation pressure provided by the vehicle manufacturer on the Tire Information label & on the Certification/VIN tag.

Reinforced tire: A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire.

Rim: A metal support for a tire or a tire and tube assembly upon which the tire beads are seated.

Rim diameter: This means the nominal diameter of the bead seat.

Rim size designation: This means the rim diameter & width.

Rim type designation: This means the industry of manufacturer's designation for a rim by style or code.

Rim width: This means the nominal distance between rim flanges.

Section width: The linear distance between the exteriors of the sidewalls of an inflated tire, excluding elevations due to labeling, decoration, or protective bands.

Sidewall: That portion of a tire between the tread and bead.

Sidewall separation: The parting of the rubber compound from the cord material in the sidewall.

Special Trailer (ST) tire: The "ST" is an indication the tire is for trailer use only.

Test rim: The rim on which a tire is fitted for testing, and may be any rim listed as appropriate for use with that tire.

Tread: Portion of a tire that comes into contact with the road.

Tread rib: A tread section running circumferentially around a tire.

Tread separation: Pulling away of the tread from the tire carcass.

Treadwear indicators (TWI): The projections within the principal grooves designed to give a visual indication of the degrees of wear of the tread.

Vehicle capacity weight: The rated cargo & luggage load + 68 kg (150 lbs) multiplied by the vehicle's designated seating capacity.

Vehicle maximum load on the tire: The load on an individual tire that is determined by distributing to each axle its share of the maximum loaded vehicle weight & dividing by two.

Vehicle normal load on the tire: The load on an individual tire that is determined by distributing to each axle its share of the curb weight, accessory weight, & normal occupant weight (distributed in accordance with Table I of CFR 49 571.110) & dividing by 2.

Weather side: The surface area of the rim not covered by the inflated tire.

Wheel center member: In the case of a non-pneumatic tire assembly incorporating a wheel, a mechanical device which attaches, either integrally or separably, to the non-pneumatic rim and provides the connection between the non-pneumatic rim and the vehicle; or, in the case of a non-pneumatic tire assembly not incorporating a wheel, a mechanical device which attaches, either integrally or separably, to the non- pneumatic tire and provides the connection between tire and the vehicle.

Wheel-holding fixture: The fixture used to hold the wheel and tire assembly securely during testing.

6.4.2. Trailer Tire Safety Information

Trailer tires may be worn out even though they still have plenty of tread left. This is because trailer tires have to carry a lot of weight all the time, even when not in use.

It is actually better for the tire to be rolling down the road than to be idle. During use, the tire releases lubricants that are beneficial to tire life. Using the trailer tires often also helps prevent flat spots from developing.

The main cause of tire failure is improper inflation. Check the cold tire inflation pressures at least once a week for proper inflation levels. "Cold" means that the tires are at the same temperature as the surrounding air, such as when the vehicle has been parked overnight. Wheel and tire manufacturers recommend adjusting the air pressure to the trailer manufacturer's recommended cold inflation pressure, in pounds per square inch (PSI) stated on the vehicle's Federal Certification Label or Tire Placard when the trailer is loaded to its gross vehicle weight rating (GVWR).

If the tires are inflated to less than the recommended inflation level or the GVWR of the trailer is exceeded, the load carrying capacity of the tire could be dramatically affected. If the tires are inflated more than the recommended inflation level, handling characteristics of the tow vehicle/trailer combination could be affected. Refer to the owner's manual or talk to your dealer or vehicle manufacturer if you have any questions regarding proper inflation practices.

Tires can lose air over a period of time. In fact, tires can lose 1 to 3 PSI per month. This is because molecules of air, under pressure, weave their way from the inside of the tire, through the rubber, to the outside. A drop in tire pressure could cause the tire to become overloaded, leading to excessive heat build up. If a trailer tire is under-inflated, even for a short period of time, the tire could suffer internal damage.

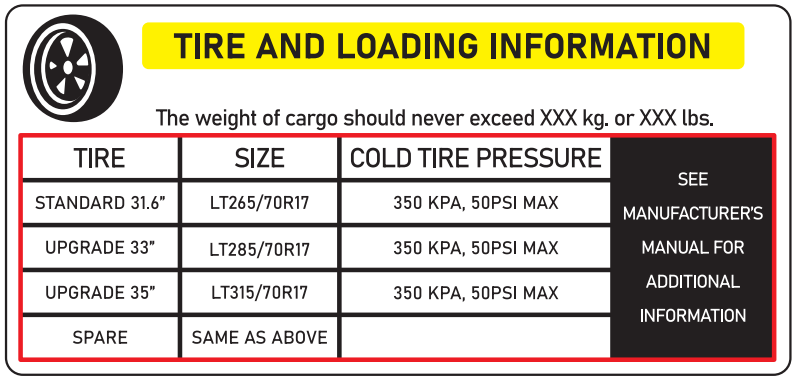
High speed towing in hot conditions degrades trailer tires significantly. As heat builds up during driving, the tire's internal structure starts to breakdown, compromising the strength of the tire. It is recommended to drive at moderate speeds.

Statistics indicate the average life of a trailer tire is about five years under normal use and maintenance conditions. After three years, replacing the trailer tires with new ones should be considered, even if the tires have adequate tread depth. Some experts claim that after five years, trailer tires are considered worn out and should be replaced, even if they have had minimal or no use. This is such a general statement that it may not apply in all cases. It is best to have your tires inspected by a tire supplier to determine if your tires need to be replaced.

If you are storing your trailer for an extended period, make sure the tires are fully inflated to the maximum rated pressure & that you store them in a cool, dry place, such as a garage. Use tire covers to protect the trailer tires from the harsh effects of the sun.

Excessive loads and/or under inflation cause tire overloading and, as a result, abnormal tire flexing occurs. This situation can generate an excessive amount of heat within the tire. Excessive heat may lead to tire failure. It is the air pressure that enables a tire to support the load, so proper inflation is critical.

The proper air pressure may be found on the Certification/VIN label and/or on the Tire Placard. This value should never exceed the maximum cold inflation pressure stamped on the tire.



TIRE AND LOADING INFORMATION

The weight of cargo should never exceed XXX kg. or XXX lbs.

TIRE	SIZE	COLD TIRE PRESSURE	SEE MANUFACTURER'S MANUAL FOR ADDITIONAL INFORMATION
STANDARD 31.6"	LT265/70R17	350 KPA, 50PSI MAX	
UPGRADE 33"	LT285/70R17	350 KPA, 50PSI MAX	
UPGRADE 35"	LT315/70R17	350 KPA, 50PSI MAX	
SPARE	SAME AS ABOVE		

6.5. SAFE TRAILER TOWING GUIDELINES

Before towing, check coupling, safety chain, brakes, tires, wheels and lights.

Check the lug nuts or bolts for tightness.

Recheck the load tie downs to make sure the load will not shift during towing.

Check coupler tightness after towing 50 miles.

Adjust the brake controller to engage the trailer brakes before the tow vehicle brakes. Follow the brake controller manufacturer's literature.

Use your mirrors to verify that you have room to change lanes or pull into traffic.

Use your turn signals well in advance.

Allow plenty of stopping space for your trailer and tow vehicle.

Use lower gears for climbing and descending grades.

Do not ride the brakes while descending grades; they may get so hot that they stop working. Then you will potentially have a runaway tow vehicle and trailer.

Do not apply the tow vehicle brakes to correct extreme trailer swaying. Instead, lightly apply the trailer brakes with the hand controller.

Make regular stops, about once each hour / every 50 miles to confirm that:

- The coupler is secure to the hitch and is locked.
- Electrical connectors are made.
- There is appropriate slack in safety chains.
- There is appropriate slack in breakaway lanyard.
- The tires are not visibly low on pressure.
- The cargo is secure and in good condition.

☑	CHECKLIST ITEM
	Coupler secured.
	Check electrical connections.
	Safety chains & breakaway lanyard are fastened with proper slack and not dragging
	Check tire pressure.
	Cargo secured.

Slow down for bumps in the road.

Do not brake while in a curve unless absolutely necessary. Instead, slow down before you enter the curve.

Do not drive so fast that the trailer begins to sway due to speed. Generally never drive faster than 55 m.p.h.

Allow plenty of room for passing. A rule of thumb is that the passing distance with a trailer is 4 times the passing distance without a trailer.

7. BREAKING IN YOUR TRAILER

7.1. RE-TIGHTEN LUG NUTS AT FIRST 10, 25, & 50 MILES

Wheel lugs can shift & settle quickly after being first assembled, & must be checked after the first 10, 25, & 50 miles of driving and prior to each tow thereafter. Failure to perform this check may result in a wheel coming loose from the trailer, causing a crash leading to death or serious injury. Improper tightening of the lug nuts or bolts voids the axle warranty. Refer to Sections "6.3.3. Worn Tires, Loose Wheels And Lug Nuts" & "11.6.4. Lug Nuts" for more information.

⚠ WARNING

Lug nuts or bolts are prone to loosen after being first assembled. Death or serious injury can result.

Check lug nuts or bolts for tightness on a new trailer, and after re-mounting a wheel at 10, 25, and 50 miles.

7.2. ADJUST ELECTRIC BRAKES AT FIRST 200 MILES

Brake shoes and drums experience a rapid initial wear. The brakes must be adjusted after the first 200 miles of use, and each 3,000 miles thereafter. Your trailer brakes will need to be manually adjusted. See Section "11.7. ELECTRIC BRAKES" for details.

7.3. SYNCHRONIZING THE BRAKE SYSTEM

Trailer brakes are designed to work in synchronization with the brakes on the tow vehicle. When the tow vehicle & trailer braking systems are synchronized, both braking systems contribute to slowing, & the trailer tongue will neither dive nor rise sharply. To ensure safe brake performance and synchronization, read and follow the axle/brake and the brake controller manufacturer's instructions. If you do not have these instructions, contact your dealer for assistance.

7.4. SUSPENSION, TIRES & WHEELS

Suspension - Check all hardware to ensure that it hasn't loosened prior to travel. Double check that the bushings are greased and nothing is binding (see Section "11.6. SUSPENSION").

Tires - Keep a tire pressure gauge in your vehicle so you can

inspect your Voyager's tires' air pressure routinely & before each trip, keeping them inflated to the recommended pressure found on the tire sidewall. Tire pressure must be checked while the tire is cold. Have your tires rotated every 5,000 miles or less by a qualified technician. Replace tires as needed (see Sections "6.4. TIRES" & Service & Maintenance Section "11.6.5. Tires").

Wheels - Lug nuts should be checked/tightened (torque spec 90 ft-lbs) after the first 10, 25, & 50 miles and before each tow thereafter (see Sections "6.3.3. Worn Tires, Loose Wheels And Lug Nuts", "7.1. RE-TIGHTEN LUG NUTS AT FIRST 10, 25, & 50 MILES" & "11.6.4. Lug Nuts").

7.5. BRAKE "BREAK-IN" PROCEDURE

We recommend taking your trailer to an empty, paved parking lot to test out your brakes and break them in before taking it out on its maiden voyage. Get your tow vehicle up to 20-40 mph and then apply the trailer brakes (not the tow vehicle brakes), working your way down to 20 mph. Repeat this approximately 20x to break in your trailer's brakes, allowing a few minutes for the brakes to cool between each time.

8. MAIN CABIN

8.1. OVERVIEW / CONSTRUCTION

(main cabin load capacity 800 lbs, evenly distributed)

The main cabin structure was built for optimum strength & durability, using zero-wood construction & aircraft inspired riveted engineering, keeping the trailer light-weight and resistant to moisture and degradation.

The Voyager's main cabin walls are comprised of 1/16-in powder-coated aluminum, 1-2 inch thick moisture-resistant, high density foam insulation behind that, and finally surrounded by the 1/8-in vinyl-wrapped aluminum exterior. We have used 1-inch insulation on the back door, back wall and floor of the main cabin, and 2-inch insulation on the remaining walls and ceiling. This extra-thick insulation is one of the many features of the Voyager that will aid in keeping you cool in the summer and warm in the winter.

8.2. CLIMATE CONTROL

Your Voyager is truly an all-season vehicle, with multiple ways to get you through every season in comfort. In addition to controlling the climate through the use of windows & the installed vent fan in the main cabin, there are additional climate control options: the standard Truma Combi Eco® furnace and optional Zero Breeze® Portable A/C Unit.

8.2.1. Ventilation

Your trailer is equipped with operable windows in each door of the main cabin, a roof ventilation fan, and the Truma Combi Eco® which has a venting function.

8.2.1.1. Passenger and Driver Door Windows

On both passenger and driver main cabin doors, there is a window that can be opened by pinching the slide latch together and then slide the bottom portion of the window up. To hold window in an open position, release the slide latch in a desired position and move window up or down until latches engage and holds window. Each window is equipped with a screen on the lower half of the window to allow for ventilation.

Windows have optional magnetic black-out shades available (set of 2). Brackets are installed during Voyager initial build (late 2024 models), with shades in place, if selected as an option. Shades with accompanying brackets & installation instructions are available for purchase as an accessory (see your dealer for more info).

8.2.1.2. Vent Fan

Installed in the front center of the ceiling in the main cabin, there is a variable speed, reversible vent fan*. This vent should be used while inside the cabin to provide ventilation, and should be turned off, closed, and locked prior to towing.

First, make sure power is flowing to your fan by checking your REDARC RedVision® Management system and making sure the Utility Circuit is turned on.

VENT FAN

RAIN SHIELD

FAN CONTROLS:

To operate fan:

- Gently pull knob to unlock position of rain shield.
- Turn knob to open rain shield to desired height.
- Push in knob to lock rain shield position.
- Press On/Off button to turn on.
- Cycle through fan speeds by pressing the + or - buttons
- Select the IN/OUT button to change fan direction.
- Press On/Off button to stop fan.

To close rain shield:

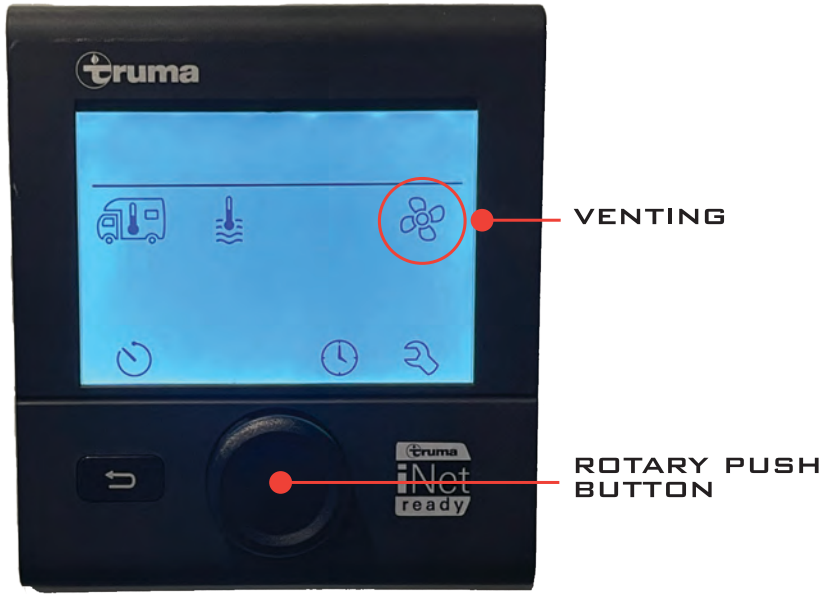
- Pull knob to unlock rain shield position.
- Turn knob to close rain shield.
- Push in knob to lock rain shield position.

*Actual fan product may vary. See fan owner's manual in owner's manuals packet provided with trailer for additional information.

8.2.1.3. Truma Combi Eco® - Venting

The Truma Combi Eco® has a venting function that can be used to help keep fresh air flowing through your main cabin. To use this feature, access the Truma® control unit located on the main cabin's passenger side wall.

Turn the rotary push button until you see the venting icon (shown in the diagram below) flashing & then push to select.



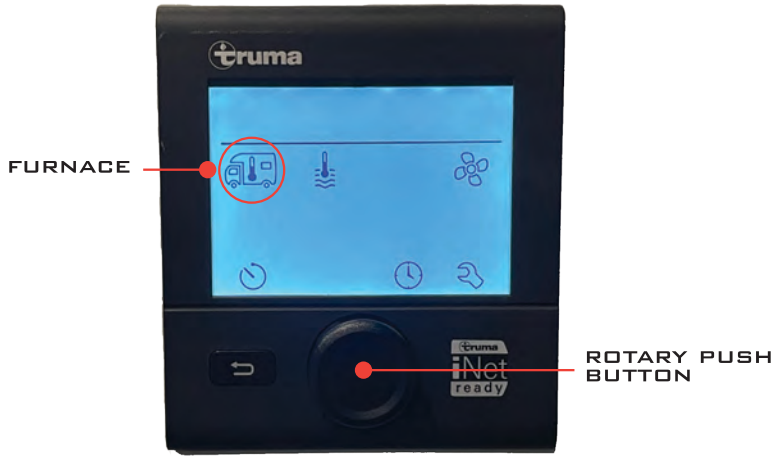
Once you have selected the icon, you will see the screen below (VENTING image). To turn off, turn rotary push button to the left until you see the OFF screen (shown below) and then push to select.

VENTING

OFF

8.2.2. Heating - Truma Combi Eco®

Your Voyager is built to keep you adventuring all year, & to help you do this, each Voyager comes standard with the state-of-the-art Truma Combi Eco®. The Truma furnace keeps your cabin & roof-top tent warm & toasty in the winter. When the Truma is running, it will also pump air into your kitchen area, heating your batteries, water lines to the sink, & pantry. The truma also has a water heater function to heat its 2.64 gallon water tank, providing hot water for your sink & shower (see "3.2.5. Truma Combi Eco® Heater" for more info).Manage your Truma from the control unit located on the inside wall of the passenger side.



To heat your cabin, make sure the trailer icon (1st icon) (see above) is selected & use the rotary push button to adjust desired temperature (between 40-86 degrees) Turn dial to find desired temperature (your screen will look similar to the image below), then press button to select. To turn it off, turn the rotary push button to the left until you see the word OFF (see OFF image) & then push to select.

SET TEMP

OFF

For more information on using your Truma® control unit, see the component manufacturer's manual.

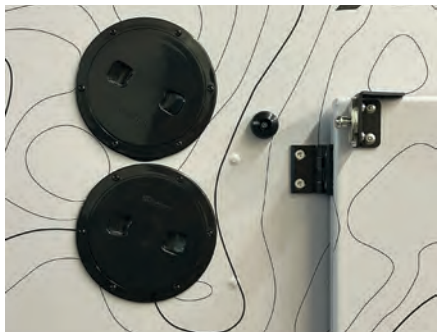
To heat your tent, with cabin furnace turned on, attach the tubing provided to the heat port located on the driver's side and then insert the other end directly into your tent (see photo below).

Do not attempt to drive while tent and/or tent heater is deployed. Only use while vehicle is parked.

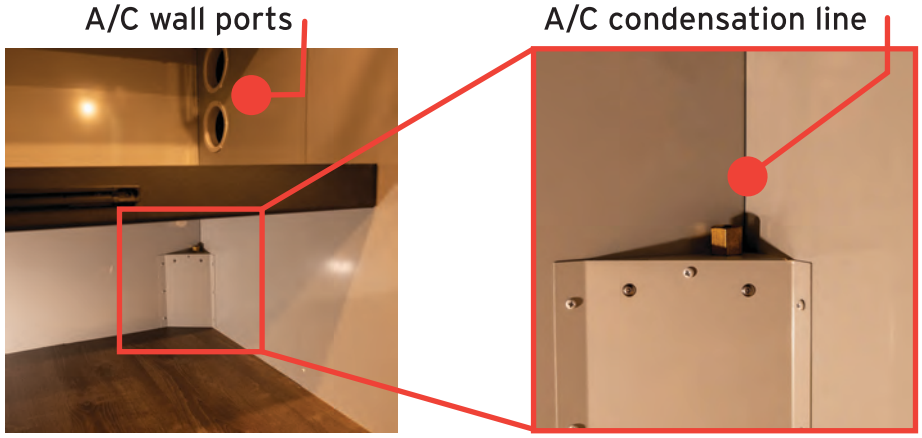
8.2.3. Cooling - A/C Shelf/Ports (Opt. Accessory)

The Voyager trailer is available with an installed shelf & wall ports for an A/C unit. This allows you to use a portable A/C unit, such

as the Zero Breeze®, inside your trailer to provide air conditioning. The small A/C shelf can be used in conjunction with the soft shelves. Another option is to use the bunk shelf in lieu of the A/C shelf. If you have this option and have purchased a Zero Breeze® A/C unit, please see A/C manufacturer's manual for operating instructions.



All Voyager trailers made after 2024 come ready with an A/C condensation line so that even after purchase, the Voyager can be retro-fitted with minor changes (please see your dealer for more information about an A/C retro-fit). (Main cabin with A/C wall ports and condensation line with bunk shelf option shown below.)



8.3. ELECTRICAL

8.3.1. Lighting

Your Voyager trailer main cabin is equipped with dimmable overhead LED lighting, LED reading lights, and exterior LED area lights, which can all be controlled from inside the main cabin as well as through the REDARC app.

8.3.1.1. Main Cabin Dimmable Overhead LED Lights

To use, first ensure that your Main Cabin & Kitchen Light Circuit on your REDARC is turned on (see photo below).

The main cabin's 4 overhead LED lights are operated by using the outermost switch at each door. These are 3-Way switches, mean-

ing that the lights can be turned on or off from either side. The dimmer slider is located on the driver side switch only.

Main Cabin Light Switches:

DRIVER'S SIDE:

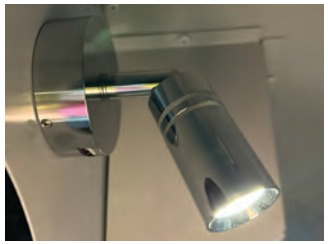
Interior Cabin Lights
(dimmable switch)

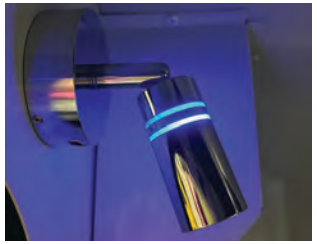
PASSENGER SIDE:

Interior Cabin Lights
(non-dimmable switch)

8.3.1.2. LED Reading Lights

The LED Reading Lights are located inside the main cabin, on the side walls towards the front of the trailer. To turn on power to LED reading lights, your Main Cabin & Kitchen Light Circuit must be turned on (see REDARC® menu diagram in Section "8.3.1.1. Main Cabin Dimmable Overhead LED Lights").





The LED reading lights are operated by touching the blue circle on the base of the light and have a USB port for charging.

OPERATION INSTRUCTIONS:

1st Touch - Turns on blue night light.

2nd Touch - Blue night light turns off, turns on white light mode.

3rd Long Touch - White light brightening/dimming function. Once in white light mode, any long touch will either brighten or dim the light - simply release your finger at any time to stop dimming or brightening.

3rd Quick Touch - Light will turn off.

8.3.1.3. Main Cabin Exterior Lights

The Main Cabin Exterior Lights, located above the driver & passenger side doors, are on the Main Cabin & Kitchen Lights Circuit (see REDARC® menu diagram in Section "8.3.1.1. Main Cabin Dimmable Overhead LED Lights"). Ensure that this circuit is turned on at the REDARC® prior to use.

Main Cabin Exterior Light Switches:

DRIVER'S SIDE:

Main Cabin Ext. Light - Driver Side

PASSENGER SIDE:

Main Cabin Ext. Light - Pass. side

These lights are operated by the switches located inside the main cabin (shown above). The innermost switches turn on the exterior driver & passenger side area lights, respectively.

8.3.1.4. Cargo Box Light

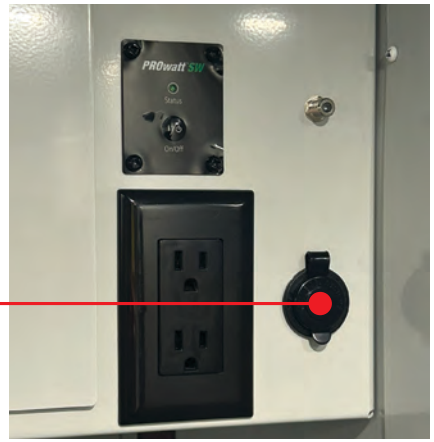
Your Voyager's cargo box is conveniently equipped with one 12v LED dome light with switch, on the center of the top shelf, located centrally so that it is accessible by either side of the vehicle.

Power must be flowing to the light by ensuring the Utility Circuit is on in the REDARC RedVision® management system (see image below). Once power is on, flip the switch on the light to the right to turn on, and to the left to turn off.

8.3.2. Power

8.3.2.1. 12v Socket

The Voyager comes standard with a 12v socket located on the driver side of the cabinetry in the main cabin.



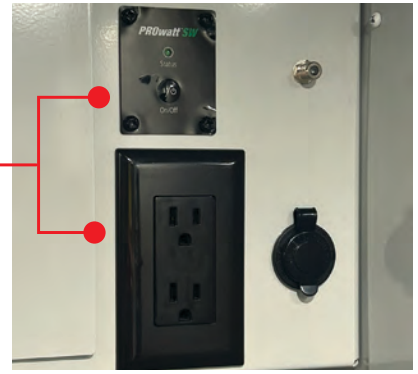
To ensure power is flowing to the 12v socket, make sure the 12v circuit on your REDARC® is turned on (see below).

8.3.2.2. USB-A & USB-C Charging Ports

At the top center of the upper shelf of the Main cabin wall shelving, you'll find (2) USB-A & (2) USB-C ports, one of each under each cap, for charging your devices. The 12v circuit must be turned on to provide power to these charging ports (see instructions above in Section "8.3.2.1. 12v Socket").

8.3.2.3. 2000W Sinewave Inverter (Opt. Upgrade)

For more 110v A/C power, your Voyager may be outfitted with the 2000W Sinewave Inverter with remote. This option provides you with a 110v A/C outlet located on the inverter in the kitchen, and a 110v A/C outlet located adjacent to the 12v socket in the main cabin. See "3.1.4.3. Inverter (Opt. Upgrade)" for information on this optional cabin upgrade.



8.3.2.4. Cargo Box 110v (Opt. Upgrade)

Your Voyager's cargo box can be equipped with a 110v outlet on the rear wall, driver side. This option is only available in conjunction with the Inverter option. If selected as an option, the inverter must be turned on in order for power to flow to the cargo box. To turn on the inverter see "3.1.4.3. Inverter (Opt. Upgrade)".

8.4. STORAGE

There is an abundance of storage options in your Voyager Trailer; listed below are the various locations and intended purposes. Please note that while we provide intended purposes here, it is up to and the responsibility of the owner & person towing the trailer to ensure proper weight distribution & loading has been followed (see Section "5. LOADING IT UP").

1. Main Cabin

a. **Main Cabin Wall Shelving**
(load capacity 10 lbs per shelf, evenly distributed)

Located on the front interior wall of the main cabin, this storage area was created for small items that you would like to keep easily accessible. It's a great spot to place an iPad for movie watching, for setting down your phone & keys for the night, to charge your devices, or to keep your current novel at arms length.

Located at the top of the upper shelf, you will find the USB-A & USB-C charging ports (be sure the 12v Circuit is turned on to power these ports, See "8.3.2.1. 12v Socket").

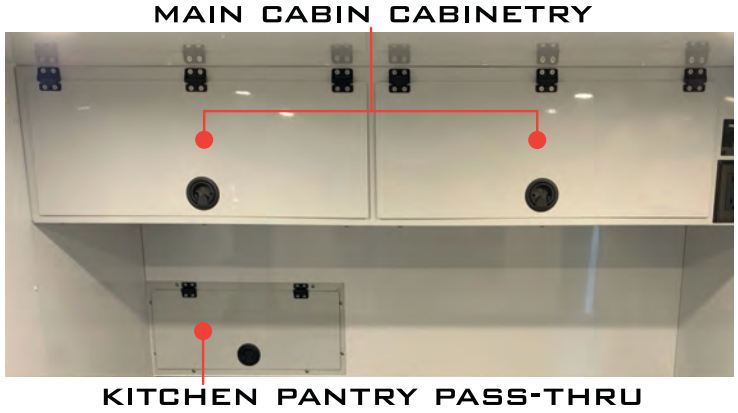
On the left inner wall of the shelves is the air return for the heater. Keeping that area as clear as possible will ensure the most efficient functioning of the air return.

On the center of the lower shelf you will find the carbon monoxide detector (powered by the Utility Circuit) and corresponding warning stickers (see Section "2.2.3. Carbon Monoxide Detector" for more information on this safety device).

b. **Main Cabin Cabinetry**
(load capacity 40 lbs, evenly distributed)

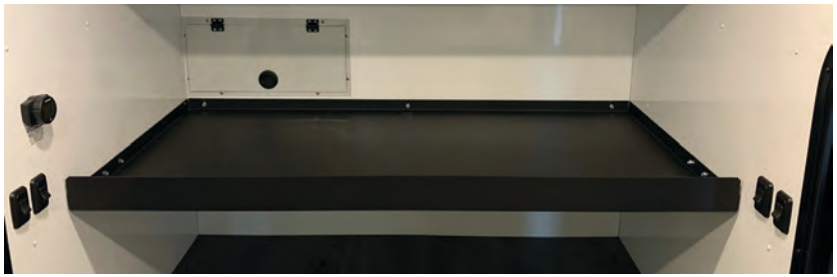
Items commonly stored in this cabinet are: personal items and clothing, additional bedding, camera gear, etc. The cabinet was purposely not divided so you can also fit longer items such as a tripod or rifle. With the right organization, it will surprise you how much you will be able to fit.

Inside the main cabin, you can also access the center kitchen pantry cabinet via the Kitchen Pantry Pass-Thru, shown below.



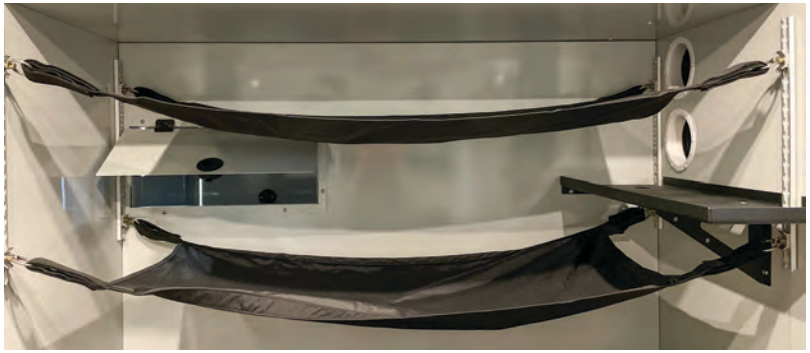
c. **Hard Gear Bunk (Optional Accessory)**
(28" x 55") (load capacity 200 lbs, evenly distributed)

The optional gear bunk, made of powder-coated aluminum, is a durable and secure option for storage. Place your electronics on it for movie night, keep your personal items within easy reach, or place bedding on it for a pet or small child.



d. **Soft Gear Hammocks (Optional Accessory)**
(19" x 42" ea) (load capacity 100 lbs each shelf, evenly distributed)

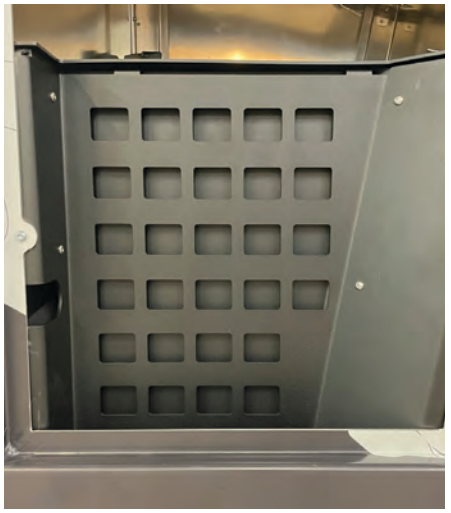
Extra storage when you want it, extra space when you need it. Remove/add/re-arrange shelves to fit your needs. A great place to store easy access items such as clothing & personal effects. This is also a handy spot for bedding when not in use. These adjustable shelves can also make for a great dog bed.



2. Front Cargo Box
(load capacity 150 lbs, evenly distributed)

This area is perfect for general items used to setup your trailer such as wheel chocks, leveling pads, tongue jack handle, shower attachment, exterior heat port ducting, etc. It is also a handy spot to store items that are dirty and that you want to be kept separate from food and personal items.

The Front Cargo Box is equipped with a molle panel below the shelf on the passenger side (see photos below). This a standard molle panel design to use with any molle panel system attachments. This feature is useful in storing tools and other items you need quick and easy access to.



8.5. BEDDING

Your Voyager Trailer comes equipped with a full XL size mattress and a set of sheets. The physical size of the mattress is 53 inches by 80 inches (length may vary between 75-80 inches). The mattress is fold-able and can be used as a small couch in the cabin. The internal foam of the mattress can be removed by unzipping the outer shell, this can be handy in case the outer shell becomes soiled and needs to be washed. Follow care instructions printed on tag.

8.6. 2ND LEVEL PORTAL (OPT. UPGRADE)

The 2nd level portal option is available in conjunction with a rooftop tent. The portal allows you to access the rooftop tent through the ceiling in the main cabin. For more information on this option, please see your dealer or visit xpeditiontrailers.com.

9. KITCHEN

9.1. KITCHEN OVERVIEW

The Voyager's kitchen is truly a camp chef's dream. We've thought of it all: ample lighting, expansive and thoughtfully designed storage areas, multiple prep surfaces and configurations, a slide-out featuring a sink with hot & cold water & dual burner stove top, a fridge/freezer slide-out, and optional upgrade to include an inverter to power all your kitchen devices.

9.2. SAFETY

Your Voyager uses propane to fuel your stove. Follow the instructions on using the solenoid safety switch as outlined in "3.2.4. Solenoid Valve & Rocker Switch". Ensure that the trailer is level before using your stove. Use caution when operating the slides to eliminate a pinch hazard. Be careful when using the stainless steel folding countertop as it is heavy; when it is in the stowed position make sure it is properly latched.

In case of fire, a fire extinguisher is located in the main cabin of your Voyager (see Section "2.2.1. Fire Extinguisher").

⚠ WARNING

When using this outdoor cooking area, the vehicle must be level and stabilized. Do not violate manufacturer's instructions on required clearances for cooking appliances during use.

Do not store cooking appliances until cool to the touch. Can lead to a fire or explosion & result in death or serious injury.

⚠ WARNING

IF YOU SMELL PROPANE

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

Ignition of flammable vapors could lead to a fire or explosion and result in death or serious injury.

9.3. SETUP

There are multiple ways you can configure your kitchen to best suit your needs at the time. We've designed it so you can access what you need and have as much or as little space to work as you need. Check out xpeditiontrailers.com for different configuration options/ideas.

9.4. LIGHTING

The kitchen has its own dedicated lighting: the under-cabinet lighting, kitchen slide-out low light, back door area lighting, rear exterior lighting, and red area lighting. There are 5 circuits which control these lights:

1. Main Cabin & Kitchen Light Circuit
(1) Under-Cabinet Light
(1) Kitchen Slide-Out Low Light

2. Back Door Area Light Circuit
(4) Underside Back Door Area Lights

3. Rear Exterior Light Circuit
(2) Exterior Lights (located above Kitchen & Fridge slide-outs)

4. Kitchen Red Area Light Circuit
(2) Underside Back Door Red Area Lights
(1) Kitchen Slide-Out Red Area Light

5. Frame Red Area Light Circuit
(2) Rear Ground Red Area Lights
(2) Fender Ground Red Area Lights

See the corresponding sections below for instructions on how to turn on power to each lighting area with your REDARC display.

9.4.1. Main Cabin & Kitchen Light Circuit

The Main Cabin & Kitchen Light Circuit powers the following lights:

MAIN CABIN: (See also "8.3.1. Lighting")
(4) Interior Overhead Dimmable Lights
(2) Interior Reading Lights
(2) Main Cabin Exterior Lights

KITCHEN:
(1) Under-Cabinet Lighting ("9.4.1.1. Under-Cabinet Light")
(1) Kitchen Slide-Out Low-Light ("9.4.1.2. Kitchen Slide-Out Low-Light")

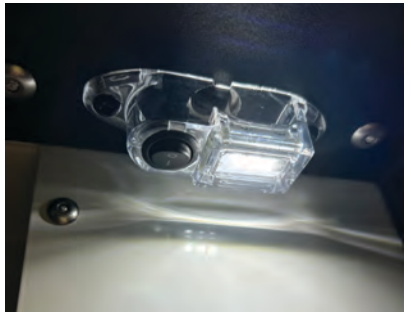
To turn on power to any of the lights listed above, please make sure your Main Cabin & Kitchen Light Circuit is turned on (see image above). For more info on each of the lights on this circuit, see the corresponding sections below.

9.4.1.1. Under-Cabinet Light

Once power from the Main Cabin & Kitchen Light Circuit is flowing (see "9.4.1. Main Cabin & Kitchen Light Circuit"), power to the Under-Cabinet Light is controlled by the power button directly on the LED strip. This light is designed to illuminate your stainless steel prep area and kitchen shelving. A long, LED strip under the cabinets gives the area plenty of light so you can make the most of your workspace at any time of day. This LED strip also has a red light function to provide low-lighting when needed.

9.4.1.2. Kitchen Slide-Out Low-Light

Also on the Main Cabin & Kitchen Light Circuit ("9.4.1. Main Cabin & Kitchen Light Circuit") is the Kitchen Slide-out Low-Light. This small, handy light is located inside the Kitchen Slide-Out Door, above the Pass-Thru Cabinet. When you are in need of a bright area light, you have the Rear Exterior Lights (see "9.4.3. Rear Exterior Light Circuit"), but, when a less harsh light is desired, the Slide-out Low-Light is a great option. NOTE: Toggle switch on low light must also be turned on.



9.4.2. Back Door Area Light Circuit

The Back Door Area Light Circuit controls the 4 overhead LED lights located on the underside of your back door (see photo

below). These lights are helpful in lighting up a larger area. Use it when working in the kitchen, or open up your door and set chairs & a table under to play a game or have a well lit dinner.

Illuminate the 4 Back Door Area Lights by selecting the button on your REDARC® display shown in the diagram above.
The underside of the back door is also equipped with two red lights for a low-light option. For instructions on how to turn them on, see Section “”.

9.4.3. Rear Exterior Light Circuit

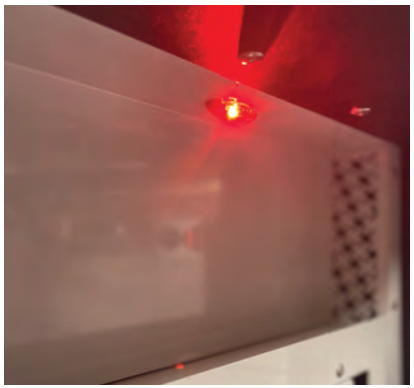
Turn on your Rear Exterior Lights by selecting the button on your REDARC® display shown in the diagram above.

The Rear Exterior Light Circuit controls power to the two lights located on the exterior of your Voyager, above the slide-out doors. When extended, these lights are designed to light up the kitchen slide-out area with your sink, stove, and door organizer (shown below), and on the driver side, the fridge slide-out area. When the slide-out is stored, this light is also useful to light up your camp area on either side of your trailer.

9.4.4. Kitchen Red Area Light Circuit

The Voyager is equipped with multiple red light options in your kitchen area. The Kitchen Red Area Light Circuit (shown selected above) controls power to the following red lights:

(1) Kitchen Slide-out Red Area Light
(2) Underside Back Door Red Area Lights



Kitchen Slide-out Red Area Light

Underside Back Door Red Area Lights

The Kitchen Slide-out Area is equipped with one red light above the Pass-Thru Cabinet, which was added to give the slide-out area low lighting when desired. There are also two directional red lights, located on the underside of the back door which illuminate the kitchen.

NOTE: The Voyager has other red lights that help light up the kitchen area: the Under-Cabinet Light (see "9.4.1.1. Under-Cabinet Light") and the Frame Red Area Lights ("9.4.5. Frame Red Area Light Circuit").

9.4.5. Frame Red Area Light Circuit

There are four red lights on the Frame Red Area Light Circuit.

(2) Red Area Lights - rear of the Voyager, below kitchen
(2) Red Area Lights - driver & passenger side, below fenders

Turn on the Frame Red Area Light Circuit by selecting the RED DARC® menu option on your display as shown below.

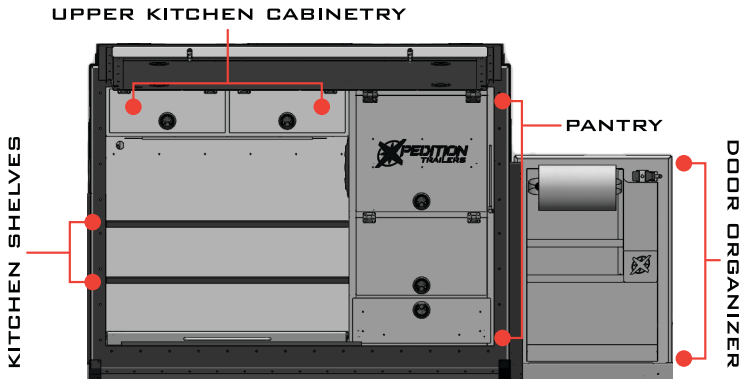
These lights are a great low light option late at night to softly light up the kitchen area, but also the entire exterior, as they illuminate

the ground around the trailer, even with all doors closed (see also Section "10.1.2. Frame Red Area Lights").

9.5. STORAGE

1. Kitchen Cabinetry

The kitchen cabinetry is divided into 4 sections: upper kitchen cabinetry, kitchen shelves, pantry (consisting of the top Logo cabinet, middle Pass-Thru cabinet & bottom drawer w/removable cutting board), and door organizer.



a. **Upper Kitchen Cabinetry**
(load capacity 40 lbs, evenly distributed)

We have found this area to be very useful for 2 different types of gear.

1. Kitchen gear such as pots, pans, additional food storage, etc.
2. If you find you do not need this space for kitchen related items, we like to use this cabinet for games, hammocks, collapsible chairs, hiking poles, maps, etc.

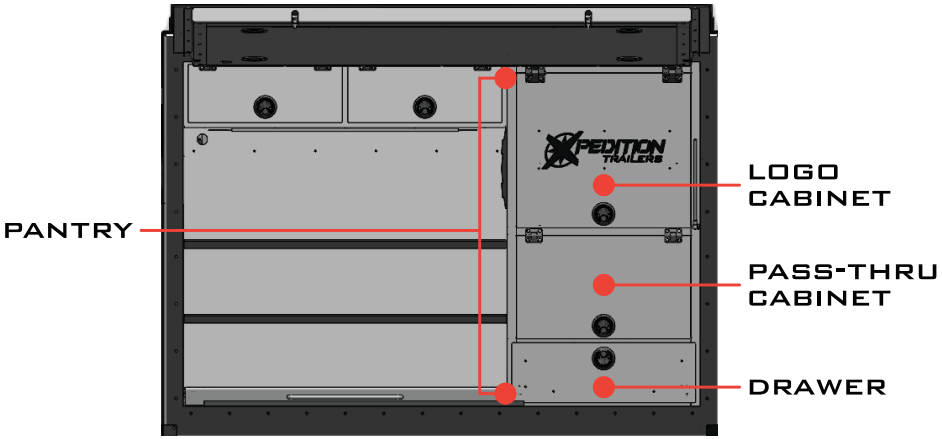
Think outside the box and use the space for all the things you use around the campfire or table not related to food, it's a great place to store these items so they are quickly accessible (see photo below).

b. **Kitchen Wall Shelving**
(load capacity 10 lbs per shelf, evenly distributed)

This is a great spot for frequently used spices/oils/ingredients. When trailer is in motion, items will be held secure by the stainless steel countertop which will be in the up and locked position when traveling.

c. **Pantry**
(load capacity 25 lbs per shelf & drawer, evenly distributed)

The pantry is comprised of two cabinets - Logo (top) & Pass-Thru (middle), and a drawer (bottom).



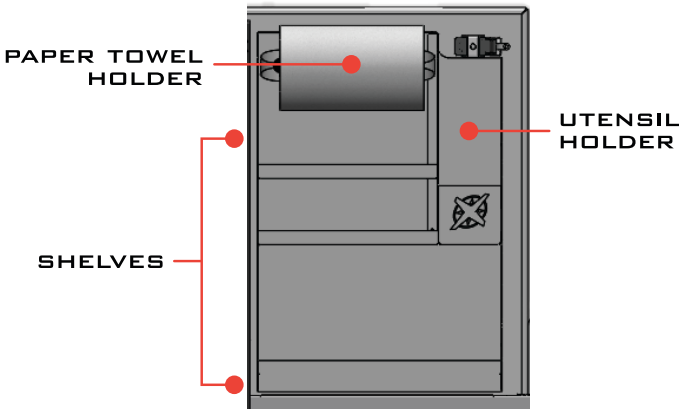
1. **Logo Cabinet** - This is the largest cabinet in the kitchen area and is great for larger bulk items that just won't fit anywhere else. We typically use this space for an instant pot, stock pot, large bags of chips, a hanging kitchen trash can (when in use, hook around the column between the rear door and fridge freezer slide-out door), etc.

2. **Pass-Thru Cabinet** - This is the most accessible storage area in the trailer with access to the rear of the trailer (when rear door is open), the passenger side (when kitchen slide-out door is open), and to the inside of the cabin. We typically use this space for quick grab snacks, food items that will be used at the stove, bread, & sandwich fixings.

3. **Drawer** - This drawer is especially handy for smaller / loose items that need to be accessed often: small utensils, knives, cooking tools, measuring cups, hot pads, etc. The drawer is outfitted with a removable cutting board. This is also a great place to keep frequently used toiletries like your toothbrush & toothpaste.

d. **Door Organizer**
(load capacity 5 lbs per shelf, evenly distributed).

The Door Organizer is located on the inside of the Kitchen Slide-out Door and was created to give you open storage for various kitchen items.



1. **Paper towel holder** - designed to hold a standard paper towel roll. If you don't use paper towels, without a roll there, the top shelf on the door is expanded for taller items and small things, such as small oven mitts and rags can be hung from the paper towel holder.

2. **Utensil holder** - Measuring just over 14" in height, the utensil holder is a great spot for large/long utensils such as spatulas, serving utensils, tongs, etc.

3. **Shelves** - There are 3 small shelves with cording strung across to secure items in place. The lower shelves are a great place to store plates / bowls stacked vertically. The middle and upper shelves are designed to fit mugs/cups and other items such as condiments, spices, & hand soap.

9.6. PREP AREAS

Your Voyager is equipped with multiple prep areas: The stainless steel countertop, fridge slide-out drop down prep counter, drawer/cutting board, and pantry pass-through.

a. **Stainless Steel Countertop**

(load capacity 40 lbs, evenly distributed)

This durable, stainless steel countertop, which measures 34.25" X 23", is perfect for all your prep needs, from sandwich-making to setting up a campfire s'mores assembly line. This prep area is well lit by the under-cabinet lighting and protected on 5 sides from the elements.

To access your Voyager's stainless steel countertop, first make sure the fridge slide-out is fully extended and clicked into place. Then, with one hand, push counter toward back wall to release tension from the lock and with the other hand, unlatch the slide lock (located at the upper left when countertop is raised - see photo below) and then carefully lower into place with both hands. The countertop is not accessible if the fridge slide-out is in the stored position.

⚠ WARNING

Stainless steel counter top is very heavy and should be raised and lowered with two hands, taking care to set into position / lock into position every time. Always lock the counter when not in use. Failure to do so may cause counter to fall and potentially cause damage to the vehicle or personal injury.

b. **Fridge Slide-Out Drop-Down Prep Counter**
(load capacity 8 lbs, evenly distributed)

We designed this handy little drop-down prep area to give you even more space to store and serve. It's especially helpful when loading and unloading items from your fridge/freezer or setting out quick-grab snacks for campers. This drop down counter-top is even accessible when the drawer is in the stowed position, so you can quickly open the back door, drop it down, & make a sandwich!

c. **Drawer/Cutting Board**
(load capacity 10 lbs, evenly distributed)

A perfect stow-away counter space, this easy-access drawer positioned at a great working height, is our solution for your cutting & chopping needs. Simply pull the drawer out and get to work whipping up those shish-kabobs!

d. **Pantry Pass-thru Drop-down Door**
(load capacity 5 lbs, evenly distributed)

Though this pantry door is not designed to bear much weight, it is very handy for holding lightweight items near the sink and stove during cooking/prep work. The Pass-Thru Cabinet drop-down door is only accessible when kitchen slide-out door is open (see below).

Please note that the Pass-Thru Cabinet drop-down door must be closed in order to fully open the sink cover, however it is designed so that once the sink cover is open you may lower it.

e. **Sink Cover**
(load capacity 5 lbs, evenly distributed)

When the sink cover is in the closed position, it can be used as an additional prep surface. This is a great place to have ingredients

sitting at the ready that need to go into a pot on the adjacent stove top.

9.7. SINK

COLD WATER ONLY:

If you only need cold water, ensure you have water in your tank and that the pump is on (see image below).

HOT & COLD WATER:

In order to access hot water, the pump, the Truma Combi® water heater, and the propane tank must be turned on.

First, turn on the water pump on your REDARC® Control Screen and check your water level to ensure there is water in your tank (see image above).

Next, you'll need to ensure that you have propane and it is turned on, as propane fuels the Truma® to provide hot water to the sink (See "3.2.3. Propane").

Next, ensure the Truma Combi® is on and heating the water by accessing the Truma Combi® display unit, selecting the second icon ( ), and choosing your heat mode (see Section "3.3.6. Hot Water" for instructions).

To access the sink, open the kitchen door fully, and depress the trigger that releases the slide-out. Place thumb on latch & other hand on the handle. Fully extend the kitchen slide-out, taking care to make sure the door is completely open as to ensure a clear path. Pull until you feel the slide-out click into place. If the trigger is tight, pushing the slide in first will relieve tension on the latch, making it easier to release.

This door, and the fridge door are each equipped with door catches mounted on the exterior of the door & exterior of the trailer to keep doors in place once open. Push open kitchen door firmly to connect the door catch (pull firmly to release). See Section "11.3.3.2. Door Latches, Hinges & Catches" for instructions on adjusting these door catches, if needed.

Once the door & slide-out are locked into place, lift the lid to the sink, adjust spout height if desired, and pull faucet lever out (to the right) to start flow of water. Push lever up for hot water, down for cold.

HOT

COLD

Water will drain under the sink. It is helpful to use a bucket to catch gray water to either dump out or re-use (e.g. to drown a campfire, etc.). A bucket will also keep the area around your feet from getting muddy.

To close, depress trigger and push slide back into the closed position, watching to ensure trigger doesn't catch on open door. If trigger struggles to release, pull towards you and try again.

9.8. STOVE TOP

To use the stove, the propane tank must be turned on (see "3.2.3. Propane").

To access the 2-burner stove top, please see instructions above in Section "" for opening the kitchen slide-out. After slide-out is fully-extended, click on the propane safety switch to engage the propane. Please note that gas will not be on unless slide is fully extended and rocker (propane safety) switch is on (see Section "2.2.4. Solenoid Rocker Switch").

PROPANE SAFETY SWITCH (LIT WHEN ON)

To turn on stove, press igniter button (center) while turning knob to start flow of propane.

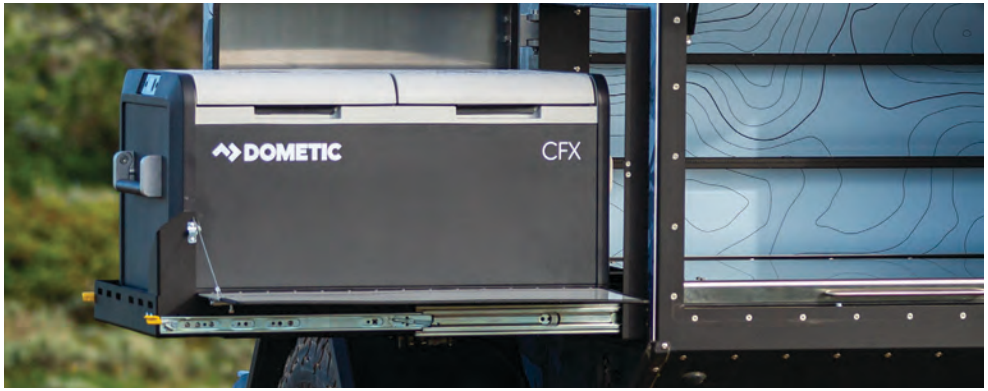
Be sure to fully turn off the stove, propane tank and solenoid switch after use (solenoid switch will ensure propane does not flow to stove, even if you don't shut it off, but leaving it on will draw from your battery). Be careful closing the kitchen slide-out, making sure it slides freely past the open door & clicks into place.

To aid in keeping your stove lit in windy conditions, your trailer has a removable 3-sided (2-sided for models prior to 2024) stove windscreen that easily fits into slots around your stove-top (3-sided screen shown below).

9.9. FRIDGE/FREEZER (OPT. ACCESSORY)

The Voyager trailer has a fridge slide-out drawer which can either be outfitted with the optional Dometic 75L Dual Zone fridge/freezer or the unit of your choice. The fridge slide-out drawer is built to accommodate any fridge/freezer up to 35.5"L x 19"W x 23"H.

To access your fridge slide-out drawer, open the fridge slide-out door on the driver side of your Voyager, and depress the trigger that releases the slide-out and then pull, until the slide-out locks into place. If the trigger is tight, pushing the slide in first will relieve tension on the latch, making it easier to release. Lock the door into place by pushing the door firmly into the door catch.



Power is provided to your fridge/freezer unit by the fridge circuit shown below on your REDARC display (which is defaulted to stay locked on).

For optimal power efficiency on your 12v power consumption, set your fridge/freezer appliance to 'low' or Eco-mode.

To close your fridge slide-out, depress the trigger again & push back into the stored position. If trigger struggles to release, pull towards you & try again. Release the door catch by pulling firmly & then close & latch the fridge slide-out door before returning to the road.

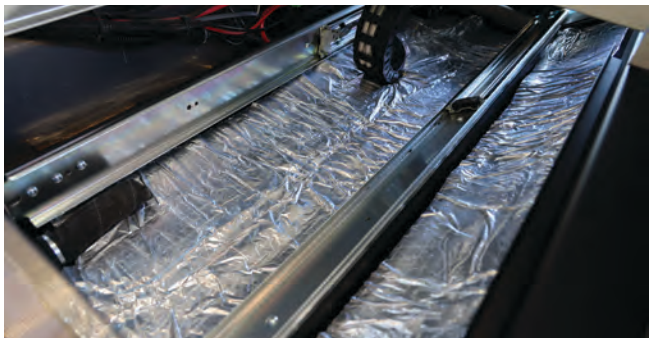
Please refer to the component manufacturer's manual for operation instructions for your fridge/freezer.

9.10. 2000W SINEWAVE INVERTER (OPT. UPGRADE)

To power your kitchen devices, such as an instant pot, for those long days hiking on the trail when you want to come back to a warm meal ready at camp, the inverter has you covered. The optional 2000W Sinewave Inverter will provide you with (2) 110v A/C outlets (one outlet is used to provide power to the main cabin outlets), (1) USB port in the kitchen area, and (2) 110v A/C outlets & remote in the main cabin (see Section "3.1.4.3. Inverter (Opt. Upgrade)" for more information).

9.11. KITCHEN INSULATION (OPT. UPGRADE)

Your Voyager comes standard with heat from the Truma Combi Eco® piped into the kitchen area underneath the stainless steel countertop to help keep your kitchen sink and pantry from freezing in cold temps (see Section "3.2.5. Truma Combi Eco® Heater"). To add another layer of protection, you may opt for the kitchen insulation. This option adds a layer of 3/8" high-density insulation with thermal barrier underneath the stored location of the kitchen slide-out to further protect sink water lines from freezing (see image below).



10. EXTERIOR

10.1. LIGHTING

The Voyager is equipped with a very thoughtfully designed lighting system for not only ideal functionality, but also to enhance your camping experience. You will find four exterior white LED lights illuminating your driver & passenger sides, as well as four red area ground lights placed thoughtfully around the sides & rear of your trailer.

10.1.1. Exterior Lights

There are four exterior white lights on the Voyager: two located over the main cabin doors, and two located at the rear of the Voyager over the kitchen slide-out doors.

1. Main Cabin Exterior Lights
(over driver & passenger side doors)

These lights are useful in lighting up your surrounding area and illuminating your way in and out of the trailer's main cabin.

To turn on these lights, press the circuit that controls the Main Cabin & Kitchen Lights on your REDARC® display (see below).

After you ensure power is flowing to the Main Cabin & Kitchen Light Circuit, use the innermost switches (shown below) to turn the exterior driver & passenger side area lights on & off, respectively.

Main Cabin Exterior Light Switches:

DRIVER'S SIDE:

Main Cabin Ext. Light - Driver Side

PASSENGER SIDE:

Main Cabin Ext. Light - Pass. side

2. Rear Exterior Lights
(over kitchen slide-out and fridge slide-out doors)

These lights are not only used for lighting up your kitchen & fridge area when needed, but with the kitchen slide-out or fridge slide-out closed, they're helpful in providing light to the rear passenger or driver area of camp.

These lights are turned on through the REDARC® by selecting the circuit shown below:

10.1.2. Frame Red Area Lights

There are 4 red area ground lights - 2 located below the back door, and 1 each on the passenger and driver side located under the fender. The red area ground lights are helpful with the door/slide-outs open or closed when you would like a more subtle/low light for just working around the trailer at night. This is also a great option when you're trying to avoid the bugs, as red light is the least attractive to insects.

Turn on your Frame Red Area Light Circuit by selecting the button shown below:

10.2. SHOWER

10.2.1. Shower Port / Shower Hose & Head

Your Voyager comes standard with a shower port/spigot input located on the front driver's side of your trailer (see photo below). A shower hose with shower head is also included and can be found

and stored in the cargo box.

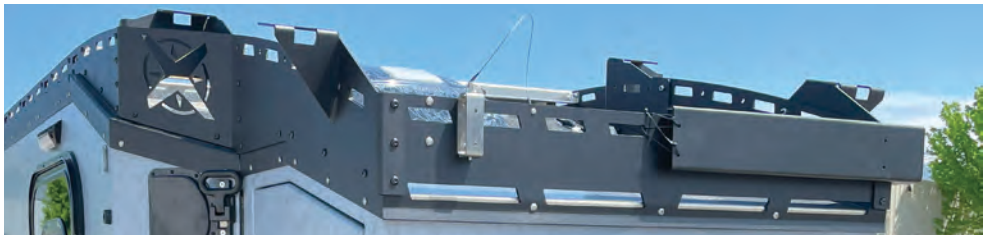
To use shower, first, turn on the water pump in the REDARC power management system, and set your water-heating mode through the Truma Combi display in the main cabin (see "3.3.6. Hot Water"). Next, lift spigot input cover and attach shower hose. Once attached, swivel to the left to select water temperature. To start flow of water to shower head, press button on the shower head.

Turn the dial back all the way to the right to turn off your shower before detaching hose. Make sure button on shower head has been released / is in the off position after detaching and be sure to completely drain shower head and hose before storing. Not properly draining shower head and hose may lead to water leakage when stowed.

10.2.2. Shower Bracket (Opt. Accessory)

Depending on the shower enclosure you select, there are 2 shower bracket options: Front-Mount Fold-away Bracket with Locking Pin or Driverside-Mount Stationary Bracket.

The Front-Mount Fold-away Bracket is attached at the front of the trailer, on the roof rack just above spare tire, and folds out to the driver side when shower enclosure is in use (see below).



The Driverside-Mount Stationary Bracket (shown below) allows for taller shower enclosures and is attached to the front-driver side of the roof rack above the cargo box.

To view these brackets with enclosures attached, proceed to "10.2.3. Shower Enclosure (Opt. Accessory)".

10.2.3. Shower Enclosure (Opt. Accessory)

One of the Voyager's options is the outdoor shower enclosure accessory. The shower is mounted to the front or front-driver side of the Voyager with either the Fold-away or Stationary Shower Bracket (See "10.2.2. Shower Bracket (Opt. Accessory)") Shower walls can be handy to use not just for showering, but as a changing room, or a great private spot to set up a portable toilet.

23ZERO® Peregrine Shower shown above, attached to Fold-Away Bracket.

Shower Enclosure on Front-Mount Fold-away Bracket

Shower Enclosure on Driverside-Mount Stationary Bracket

Please refer to the manufacturer's manual of your shower enclosure for more details.

10.3. ROOF RACK (94" X 58")

(load capacity 1000 lbs, evenly distributed)*

The Voyager's roof rack comes standard with six cross rails for mounting various items. Items commonly attached to the roof rack are: rooftop tent, awnings, bicycles, kayaks, gear boxes, solar panels, etc.

*NOTE: Cargo Box Roof Area load capacity: 100 lbs, evenly distributed.

10.3.1. Roof Safety

Safety should be of utmost importance when accessing the roof and should never be done when the surface of the trailer will create a slipping hazard.

The front of your Voyager roof is equipped with strips of grip tape to provide greater stability when standing/walking on your trailer roof, however caution should always be observed when atop your trailer.

10.3.2. Roof Access

The roof of the Voyager trailer is accessible by standing on the front tire carrier, the side fenders or via the folding steps on the front passenger side. When accessing the roof, ensure the surface you are standing on is free of dirt and moisture to minimize slipping and or damaging the surface of the trailer.

On the passenger side of your trailer, to the rear of the cargo box, you will find 3 or 4 folding steps (depending on your Voyager model) that will allow you access to your roof.

1. Folding Steps
(load capacity 225 lbs per step)

Fold steps up while trailer is in motion to protect them from damage from road debris & increase the lifespan of your steps.



⚠ WARNING

Ensure trailer is properly parked and stable before climbing onto the roof. Standing and/or walking on the roof can be dangerous. Make sure roof is clear of moisture and dirt to minimize risk of slipping/falling. Failure to do so may result in serious injury or death.

10.4. ATTACHING ACCESSORIES

The Voyager trailer is designed to accept a wide variety of attachments mainly on the roof rack with standard off-the-shelf mounts for various items, but you also have the ability to mount items to the exterior of the trailer as well. If you would like to mount something to the exterior wall of your trailer, please contact us to discuss your application and we will be happy to provide you recommendations on mounting.

Please use proper safety measures and inspect all points of attachment prior to each trip to ensure all attachments are firmly and safely connected to your trailer. Loose or unsecured cargo may cause loss of control of your trailer and/or loss of cargo, which could lead to injury or death (See Sections "5. LOADING IT UP" and "6. TOWING" for more information on loading & towing items safely).

10.4.1. Roof Top Tent (Opt. Accessory)

The Voyager trailer was designed to accept most roof top tent models and manufacturers. When mounting a tent to your trailer, we encourage you to consider the following factors:

1. Dimensions of the tent when stored.
   (the dimensions of your Voyager's Roof Rack are 94" x 58")

2. Weight of tent empty and loaded.
   (Voyager Roof Rack load capacity is 1000 lbs, evenly distributed)

3. Height of tent & the necessary clearances you have, such as a garage. *(Voyager stands 82" high w/no accessories)*

Please see dealer and tent manufacturer for information on mounting your tent. Refer to your tent manufacturer's manual on the care and maintenance of your roof-top tent.

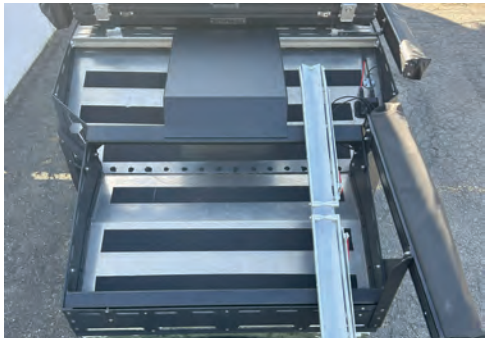
For information on our 2nd Level Portal option, where you can access the roof top tent through the main cabin, please contact your dealer or Xpedition Trailers.

10.4.2. Awning (Opt. Accessory)

An awning is a great way to expand your outdoor living space, providing you with protection from the elements. And if you need more sleeping space, simply add awning walls to create enclosed rooms that you can easily throw a cot or two in. The Voyager Trailer was built to accommodate up to two awnings: one on the passenger and driver side. Please see dealer for information on preferred awnings for the Voyager and the respective manual from the awning manufacturer for questions on dimensions, assembly, care & maintenance, etc.

10.4.3. Roof Accessory Bracket (Opt. Accessory)

A roof accessory bracket with optional vent cover is available as an option for your Voyager trailer. The accessory bracket mounts to the front of the Voyager roof & allows for up to four 1UP® bike racks without the vent cover or two 1UP® bike racks with the vent cover. The vent cover functions as a seat on the roof and protects the fan from accidental damage.



Roof Accessory Rack shown with vent cover and one 1UP® bike rack.

10.4.4. Bike Rack (Opt. Accessory)

Bike racks can be attached to front driver roof rack, front passenger roof rack and rear hitch of your Voyager trailer. Bike racks are optional and only the front roof rack mounted bike racks are available from Xpedition Trailers as original equipment.

With the optional roof accessory bracket, you can mount up to two 1UP® bike racks without the vent cover, or as many as four 1UP®

bike racks without the vent cover (see also Section "10.4.3. Roof Accessory Bracket (Opt. Accessory)").

Please refer to the component manufacturer's instructions for care & maintenance of your bike rack.

10.4.5. Rear Hitch
(300 lbs. Carrying Capacity)

Every Voyager comes standard with a 2-inch receiver hitch at the rear of your trailer. This is useful as a recovery point, tie down location, or to tow a small accessory such as a hitch-mounted cargo carrier, hammock stand, or bike rack. The Voyager's hitch is rated for a carrying capacity of 300lbs.

10.4.6. Rock Chip Guards (Opt. Accessory)

Rock chip guards for your side walls (angled wall near front of the trailer) & fenders are available as an optional accessory.

PASSENGER SIDE DRIVER SIDE

SIDE WALLS

FENDERS

The Voyager rock chip guards are made of bedliner-coated aluminum, and are designed to protect the areas of the trailer that are most prone to damage from rocks & debris from the road. Rock chip guards are available for all models of the Voyager and can be purchased through your dealer or through Xpedition Trailers.

11. SERVICE & MAINTENANCE

11.1. GENERAL CARE

The Voyager trailer is built to last, using materials and techniques that were specifically selected for minimal maintenance. However, taking proper care of your Voyager's structure and components will help extend the lifespan, general appearance & functionality.

11.2. KITCHEN

Wipe down powder-coated surfaces with a soft cloth and mild soap & water. Avoid abrasive cloths or chemicals (see Section "11.3.2. Surfaces" for more information).

Wipe down stainless steel surfaces (counter-top, sink & stove) with a stainless steel cleaner such as Bar Keeper's Friend® with a sponge, and then buffing afterward with a microfiber cloth. Ensure that you utilize a chopping block or cutting board while using knives on all countertops/work surfaces. When placing pots and pans that have just been removed from the burner, it is important to use hot pads to protect all work surfaces.

Periodically greasing hinges & sliders with WD-40 or a dry lubricant (like Super Lube's® Dri-Film) will keep them functioning smoothly & properly. Over time, the kitchen & interior cabinets hinges & pulls may lose tightness. See Section "11.3.3.1. Cabinetry Hinges & Pulls" for instructions on how to adjust them.

11.3. INTERIOR

11.3.1. General Care

For all third party parts and accessories, please refer to the component manufacturer's instructions for care & maintenance, unless mentioned otherwise in this manual.

Test smoke detector and carbon monoxide detector regularly according to the component manufacturer's instructions, to ensure proper functioning.

For cleaning the convertible bed, follow instructions on the component manufacturer's tag.

11.3.2. Surfaces

The interior of the Voyager's main cabin is composed of powder coated aluminum. Powder coating is a remarkably low maintenance finish. The most important thing you can do to increase the life of your powder coated surfaces, is avoid using harsh chemical cleaners. The utilization of harsh solvents can harm powder coatings and effectively decrease the expected lifespan of the finish by half. Once the coating has been compromised, it becomes significantly more susceptible to fading, staining, and overall failure.

To clean the interior surfaces, use only a damp soft cloths/soft sponge with a gentle soap and filtered water mixture. If your powder coating has lost its shine, once you have cleansed your powder coated metal using mild soap to eliminate dirt, you can restore it by applying a thin layer of premium non-abrasive car wax. Avoid using compound-type waxes, as they contain abrasives that may cause harm to the powder coating. After allowing the wax to dry, simply wipe away the excess, and your powder coated metal will regain its pristine appearance.

When your powder coating begins to exhibit signs of deterioration, seek assistance from a professional who can either repair or reapply the powder coating.

Clean only on an as-needed basis.

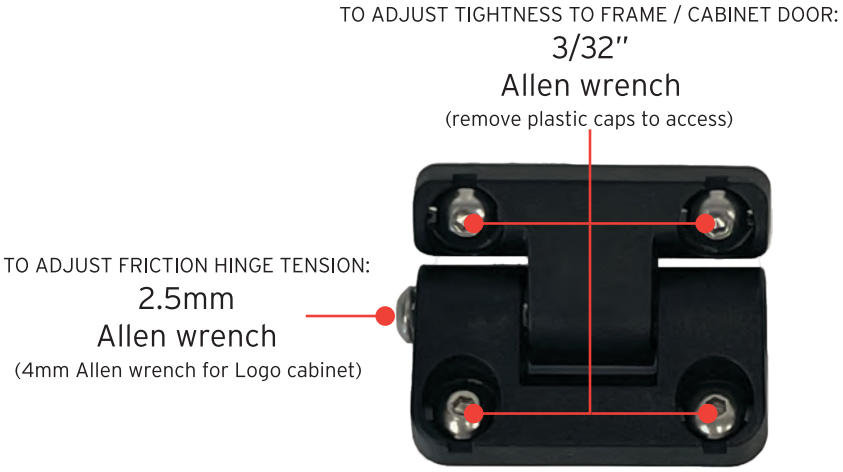
11.3.3. Fasteners & Mechanisms

11.3.3.1. Cabinetry Hinges & Pulls

The hardware may require occasional maintenance as hinges and fasteners may become loose with use over time.

For the hinges on all of the cabinetry in the main cabin & kitchen, except for the pantry Logo cabinet, you will need 3/32" Allen wrench to tighten the screws attaching the hinge to the frame & cabinet doors (under the plastic caps), and a 2.5mm Allen wrench to adjust the friction hinge tension.

For the Logo cabinet, you will need a 3/32" Allen wrench to tighten the hinge to the frame & cabinet door & a 4mm Allen wrench to adjust the friction hinge tension.



The Voyager's cabinetry is equipped with pulls to enable easy access. Should the pulls loosen over time, simply use a Phillips screwdriver (access from the back side) to tighten.

11.3.3.2. Door Latches, Hinges & Catches

To adjust latches on the kitchen & fridge slide-out doors, cargo box door, and on your back door, use a 10mm wrench or socket wrench on the bolt and/or nut on the inside of the door (shown below). Bolt can be adjusted to ensure proper door closure. Lock down with lock nut provided after adjustment.

To adjust the hinges on the kitchen and fridge slide-out, use a 4mm Allen wrench.

To adjust the hinges on the cargo box and the back door, use a 1/8mm Allen wrench.

To adjust door catches on kitchen & fridge slide-out doors (see photo below), use a 5/32in Allen wrench on the female end to either tighten or loosen holding force (tightening the screw, will increase holding force, loosening the screw will decrease holding force). If you find that it's difficult to pop in or out, apply a dry silicone lubricant as needed.

11.3.3.3. Slide-out System

Keep area under slide-outs clear of food/liquid or debris that may have spilled from the kitchen area to ensure there are no obstacles inhibiting proper functioning of the slide-outs or blocking the heat output from the Truma®.

Periodically grease sliders with WD-40 or a dry lubricant (like Super Lube's® Dri-Film) to keep them functioning smoothly & properly.

Check all fasteners regularly or as needed for tightness and alignment.

11.4. EXTERIOR

11.4.1. Wrap Care

Your Voyager was made to play outside, so scratches and dings are unavoidable on your wrap, but there are a few ways to increase the longevity and help maintain the appearance of your wrap.

Wash your Voyager's wrap once a week or more often if your vehicle is exposed to a lot of dirt & pollutants, using a gentle automotive cleanser and a soft cloth or automotive sponge. Rinse with water & use a silicone squeegee and or chamois to reduce water spotting. Dry with a microfiber cloth. Do not use solvents or oil-based cleaning products, as these will damage your wrap.

Using a pressure washer on your wrap is not recommended, but if you do, keep it less than 2000 psi, using a wide angle spray, keeping water temperature below 140 degrees Fahrenheit, and stay away from wrap edges. High pressure washers can work their way under the wrap and damage it or completely remove it.

Park your trailer in a shady spot when possible to minimize sun damage / fading. When storing, a garage is ideal for avoiding damage due to exposure to the elements.

Some vinyl scuffs & scratches can be prepared by your local vinyl shop, and others can be covered with a vinyl patch which will help to minimize future damage to that area.

To help increase the lifespan of your vinyl wrap, rock chip guards for the angled side walls (near the front of the trailer) are available for purchase through your dealer or xpeditiontrailers.com (see Section "10.4.6. Rock Chip Guards (Opt. Accessory)" for more information).

For a current list of available wraps, please see https://xpedition-trailers.com/features-%26-options.

11.4.2. Frame & Chassis

As time passes, different weather and climate conditions can cause corrosion on the frame and chassis of your Voyager. It is essential to regularly rinse off any dirt, oil, tar, salt, or other debris from the undercarriage, wheel wells, hitch, and bumper. Additionally, make a habit of inspecting for signs of rust, especially when camping in or near coastal regions or areas with high humidity.

11.4.3. Doors

Doors should not require much maintenance, though it is possible that with use over time, the strike plate or door latch may become loose. Use a Philips screwdriver or a square bit (depending on your door) to tighten. Use a dry lubricant, such as SuperLube® Dri-Film on locking mechanism and key hole as needed.

Clean your Voyager doors with a soft microfiber cloth and gentle cleanser, using a window cleaner on the door windows for best results.

Should your door lock or other mechanism on your door(s) cease to function properly, please contact us or your Xpedition Trailers dealer.

Check rubber door seals and sealants regularly for cracks, holes, shrinkage, fading, or any other kind of deterioration. Sunlight and frequent temperature changes/extreme temperature changes can shorten the lifespan of your seals & sealants. Keeping rubber door seals hydrated using a rubber seal conditioner like 3-IN-ONE® RV Care Rubber Seal Conditioner, will help extend the life of your door seals. Replace seals or sealant when needed with the same type of seal or sealant (contact Xpedition Trailers or your dealer with questions regarding products/sealants).

11.4.4. Roof

The roof rack of the Voyager is made of 1/8th inch aluminum and is fastened on the front and rear using sealed structural riveting. There is sealant placed over those rivets as a precaution. In order to prolong the life of the sealant, do not step or place objects on it. Should the sealant become damaged, please contact your dealer for information on how to repair or replace.

11.5. TRAILER CONNECTION TO TOW VEHICLE

11.5.1. Coupler/Hitch

Before each trip:

- Inspect coupler, checking for proper lubrication and re-applying wheel-bearing grease as needed.
- Check safety chains and make sure they are free of damage and connected properly.
- Check your jack and test to ensure proper functioning.
- Inspect DC to DC connection, and all wiring connections

Contact your dealer or a qualified professional if anything appears to be damaged or compromised in any way before traveling.

11.5.2. Tongue Jack

Prior to embarking on each trip, thoroughly examine and evaluate the condition of your jack. Clean and occasionally apply a small

amount of oil to ensure proper functionality. If your jack requires repair or any other form of servicing, it is advisable to seek assistance from a qualified technician.

11.6. SUSPENSION

11.6.1. A-Arms

As with any component on the trailer, it is important to clean off excessive mud or dirt so as to not cause premature wear to the suspension components.

A-Arms should be adjusted as needed for toe and camber, or should you notice excessive tire wear, by a qualified professional. Bushings should be greased every 5,000 miles, using a hand-pump grease gun (not battery-powered or pneumatic) loaded with high temp wheel bearing grease. For a video tutorial on how to properly grease your a-arms, please visit our YouTube Channel.

11.6.2. Shocks & Springs

Shocks use wet-seal technology, a light film of fluid on the shock shaft is normal. If excessive fluid leaking from the shock is noticed, the shock should be replaced. Otherwise there is no maintenance required.

Springs are made of powder-coated steel, and require little to no maintenance.

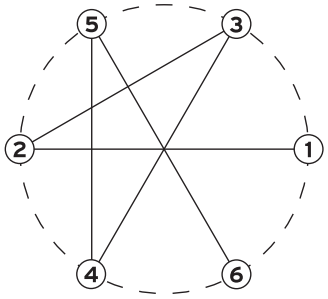
11.6.3. Wheel Bearings

Wheel bearings should be checked for adequate grease prior to every trip by removing the rubber plug on the bearing cap and adding grease until you see grease movement (displays that bearings are full and grease is being pushed back out the front). It is important not to over-grease, as the extra grease can be pushed out the back seal and into the brakes which can interfere with brake functionality.

Bearings should be greased with high temp wheel bearing grease (using a hand-pump grease gun) every 5,000 miles. If you notice metallic flakes in the grease upon inspection, this is a sign of bearing deterioration and they should be replaced immediately. We recommend carrying a spare set of wheel bearings in the event that you have a failure on the trail. It is recommended that you replace your wheel bearings every 85,000 to 100,000 miles. For a video tutorial on how to properly grease your wheel bearings, please visit our YouTube Channel.

11.6.4. Lug Nuts

Wheel lugs can shift and settle quickly after being first assembled, and must be checked after the first 10, 25, & 50 miles of driving and prior to each tow thereafter. Lug nuts should be checked/tightened (torque spec 90 ft-lbs), using the following lug nut tightening sequence:



The lug stud is a 1/2"-20 and the lug nut uses a 13/16" socket.

11.6.5. Tires

It is important to properly-maintain your tires to enhance your vehicle's steering, stopping, traction, and load-carrying capability. Tire failure is often caused by under-inflation and overloading. To avoid this, maintain correct tire pressure, adhere to load limits, avoid road hazards, and regularly inspect tires for cuts and irregularities. Following these steps, along with proper care and maintenance, can improve vehicle handling, reduce breakdowns, accidents, and fuel consumption, while extending tire life. Making tire safety a regular part of your maintenance routine is crucial, considering the minimal time spent compared to the inconvenience and safety risks associated with tire failure.

The tire tread is essential for grip and traction, preventing your vehicle from slipping or sliding, particularly on wet or icy roads. Ideally, replace tires when the tread wears down to 2/32 of an inch (or roughly 1.6 mm) for safety reasons.

Check the tire sidewall of your Voyager's tires for guidance on proper tire replacement. If you're unsure about the right size or type, seek advice from a tire dealer. Additionally, refer to the manual provided by your tire manufacturer for care and usage instructions.

Check your trailer's tire pressure prior to each trip, ensuring they are inflated to the recommended tire pressure. Do not check the tire pressure immediately after towing the trailer. Allow at least 3 hours for the tires to cool, if the trailer has been towed for as much as 1 mile.

Have your tires rotated every 5,000 miles or less by a qualified technician. All tire repairs should be performed by a qualified professional.

11.7. ELECTRIC BRAKES

Ensure that the electric brakes on your Voyager are adjusted within the initial 200 miles of usage. Test them for brake drag every 3 months or every 3000 miles, whichever comes first. Only tow your Voyager if Voyager and tow vehicle brakes are in good condition and are operating properly. When adjusting brakes on any vehicle, it is recommended to either replace or adjust all brakes simultaneously. It is important to have qualified service personnel carry out all necessary brake-related tasks.

11.7.1. Shoes and Drums

Please refer to Dexter Axle Operation Maintenance Service Manual, 600-8,000 lbs. axle capacity manual for maintaining & servicing electric brake shoes & drums.

https://www.dexteraxle.com/user_area/content_media/raw/LD-ServiceOnline.pdf

11.7.2. Adjusting Brake Shoes

Brakes should be adjusted (1) after the first 200 miles of operation when brake shoes and drums have "seated," (2) at 3,000 mile intervals, (3) or as use and performance requires.*

Adjust the brakes according to the Dexter Axle Operation Maintenance Service Manual, 600-8,000 lbs. axle capacity.

https://www.dexteraxle.com/user_area/content_media/raw/LD-ServiceOnline.pdf

*Excerpt from Dexter Axle Operation Maintenance Service Manual, 600-8,000 lbs. axle capacity.

11.7.3. Electric Brake Magnets

Please refer to Dexter Axle Operation Maintenance Service Manual, 600-8,000 lbs. axle capacity manual for maintaining & servicing your electric brake magnets.

https://www.dexteraxle.com/user_area/content_media/raw/LD-ServiceOnline.pdf

11.8. ELECTRICAL SYSTEM

11.8.1. Fuse Location & Wiring Key

Your fuses are all located under the stainless steel countertop, near the battery at the rear of your Voyager in the REDARC® Manager30. Please see "3.1.1.2. House Electrical System" for the house electrical system wiring key which lists all circuits and items on each one. It is important to have qualified service personnel carry out all necessary electrical tasks/repairs.

11.8.2. Batteries

As a good general practice, do not discharge your batteries below 20% to increase the lifespan of your AGM or Lithium batteries.

For Centennial 115Ah 12v AGM batteries, please refer to the following manual for instructions on the care & maintenance of your batteries:

https://www.centennialbatteries.com/amfile/file/download/file/26/product/581/

For Battleborn 100Ah 12v Lithium batteries, refer to the following manual:

https://battlebornbatteries.com/wp-content/uploads/2022/10/BB10012-Manual-Edition.PIM_BB10012Rev026_04242024.pdf

11.8.3. REDARC®

The Voyager uses the REDARC® TVMS1280 Total Management System and the Manager-30 Battery Management System. When storing your trailer for an extended period of time, you can switch the system from Touring to Storage Mode (see Section"11.11. STORING YOUR TRAILER").

For instructions on the service & maintenance of your TVMS1280, please refer to the link below:

https://cdn.intelligencebank.com/au/share/yE9N/zJpI/LBVqV/original/TVMS1280+Manual+English

For instructions on the service & maintenance of your Manager-30 Battery Management System, refer to the following link:

https://cdn.intelligencebank.com/au/share/yE9N/zJpI/dkydZ/original/BMS1230S3R-NA+Manual+English

Please see your dealer for further questions or concerns regarding your REDARC® system.

11.9. PROPANE SYSTEM

Routinely have your propane tanks inspected to ensure they are within compliance; this can be done at any filling station. Regularly check connections for leaks using soapy water.

The pressure regulator on the propane mount has been adjusted to optimize the performance of your Truma® heater. If the Truma® is having trouble staying lit, contact your dealer or a qualified professional to check system pressure at the heater. System pressure should be between 11-14 inches of water.

11.10. WATER SYSTEM

11.10.1. Water Pump

Please refer to the component manufacturer's manual for troubleshooting, care & maintenance of your water pump. For further questions or concerns regarding your water pump, contact your dealer.

Sea-Flo 33-Series Water Pump Model # SFDP1-030-045-33
https://www.seaflousa.com/wp-content/uploads/2014/09/33-Series-Instructions.pdf

11.10.1.1. Water Pump Inlet Filter

Replace your water pump filter as needed. To replace,

1. Remove the false wall on the inside the front cargo box on the driver's side.
2. Replace the inlet filter (photo below) - Model 51S01 / 50 Mesh for SeaFlo Professional Grade Water Pump Model # SFDP1-030-045-33 according to the manufacturer's instructions.

11.10.2. Sink

Your Voyager sink is not equipped with a disposal. Keep food and oil out of the drain to avoid clogs.

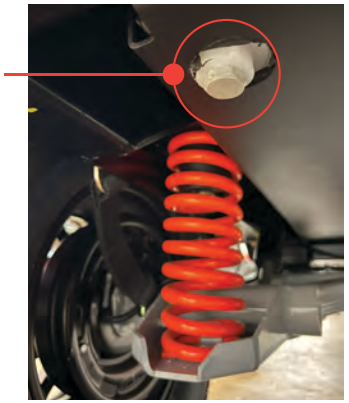
Drain your tank between trips to keep from accumulating build-up in your plumbing system (see "11.10.4. Draining the Water System" for instructions).

11.10.3. Shower

After use, disconnect the hose, hang the hose vertically with opening at the bottom and turn on the shower head to drain the water before storing.

11.10.4. Draining the Water System

It is recommended that you fully drain your water tank between trips to keep water supply fresh. Place an appropriate container based on the amount of water you have in your tank and open the threaded plug located at the bottom of the water tank (on the back driver side) using an adjustable crescent wrench.



Allow water to drain while faucet and shower are on, preferably with the faucet turned to a warm water setting so as to allow air to enter both hot and cold sides of the system.

11.10.5. Water System Disinfection Instructions

To ensure complete disinfection of the potable water system, it is recommended that the following procedures be followed on a new system, one that has not been used for a period of time, or one that could have become contaminated. This procedure is also recommended before long periods of storage such as over winter.

Step 1: Prepare a chlorine solution using 1 gal. (3.8 L) of water and 1/4 cup (60 ml) household bleach (sodium hypochlorite solution). With tank empty, pour chlorine solution into the tank. Use 1 gal. (3.8 L) solution for each 15 gal. (57 L) of tank capacity. This procedure will result in a residual chlorine concentration of 50 ppm in the water system. If a 100 ppm concentration is required, use 1/2 cup of household bleach with 1 gal. of water to prepare the chlorine solution. Use 1 gal. of the solution for each 15 gal. of tank capacity.

Step 2: Complete filling of tank with potable water. Open each faucet & run the water until a distinct odor of chlorine can be detected in the water discharged. Do not forget the hot water taps.

Step 3: Allow the system to stand for at least 4 hours when disinfecting with 50 ppm residual chlorine. If a shorter time period is desired, a 100 ppm chlorine concentration should be permitted to stand in the system for at least 1 hour.

Step 4: Drain and flush with potable water.

⚠ WARNING

Potable water only. Sanitize, flush, and drain water tank before using. Failure to maintain tank can result in death or serious injury.

11.10.6. Water System Winterization

Winterizing your Voyager trailer is an essential step to ensure the long winter months don't damage your water system. The method outlined below is for using an air compressor to blow water out of the system. The process is simple and should be followed in the order listed below.

Items needed:

-Air compressor with hose

-Air nozzle

-Air nozzle tip large enough to cover the fill port, the fill port diameter is 1.25". Amazon offers a set of tips that includes a large 1.4" diameter tip that works great. Link: https://a.co/d/f3RUbU2

-5/16" socket & ratchet and/or #2 square drive screw bit to remove false wall.

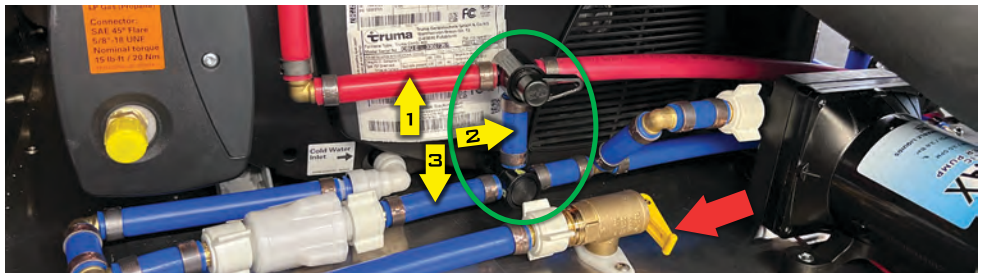
Step 1: Turn off the Truma Combi unit and allow the unit to cool.

Step 2: Depressurize the water system by turning off the water pump and turning on the kitchen faucet and plugging in the shower hose at the front of the cargo box. Make sure to select both hot and cold water to ensure both hot and cold sides are depressurized.

Step 3: Place an appropriate container based on the amount of water you have in your tank and open the threaded plug located at the bottom of the water tank (on the back driver side). Allow water to drain while faucet and shower are on, preferably with the faucet turned to a warm water setting so as to allow air to enter both hot and cold sides of the system.

Step 4: Place the Truma Combi unit in bypass mode by performing the following:

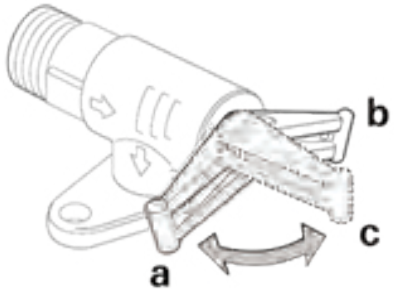
1. Remove the false wall on the inside the front cargo box on the driver's side.
2. Using the picture below, locate the bypass valves in the green circle. If you do not have black 3-way valves, there will be ball valves located at the yellow arrows.



3. Turn bypass valves to block water from going to the Truma Combi by turning the handles so they point to each other. (Top valve should be pointing down and bottom handle should be pointing up.) If you have ball valves located at the yellow arrows, turn off #1 and #3 (handle perpendicular to tubing), turn on #2 (handle in line to tubing).

Step 5: Place vessel that can hold at least 2.64 gallons under drainage outlet. The drainage outlet is directly below the drainage valve which is indicated in the picture above by the red arrow.

Step 6: Drain the Truma Combi unit by locating the drainage valve indicated in the picture above by the red arrow and flipping the yellow handle 90 degrees to the c position. We recommend leaving this valve open for the winter season. See diagram below:



a,b – Lever in closed position for furnace operation.
c – lever in drainage position for winterization.

At this point the Truma Combi is winterized, we do not recommend using high pressure air or antifreeze when winterizing the Truma Combi. Antifreeze should only be used when the bypass is open so as to NOT allow antifreeze to enter the Truma Combi. **Antifreeze in the Truma Combi will void the factory warranty.**

Step 7: Ensure all water has drained from the tank, if needed, wait for tank to completely drain before moving on to the next step.

Step 8: Now that you've got the bulk of the water out of the system, turn off the sink faucet and ensure the petcock valve on the bottom of the tank is closed.

Step 9: Set your air compressor to 45 psi. This is a critical step to

ensure the water system does not get over pressurized and damage any components.

Step 10: With the Truma Combi in bypass mode (this was done in Step 4) make sure the shower hose is in the on position and set to warm. Turn on water pump; this allows air to pass through the pump and push out water still in the lines.

Step 11: With your compressor set to 45 psi and the shower plugged in and on a warm setting, blow air into the fill port of the tank. You may notice water coming out of the breather vent next to the fill port, this is normal, and you should allow any water that is still in this tube to come out. Once there is no water coming out of the breather vent, use your finger to plug the breather to direct the pressure to the shower (Alternatively you can remove the shower head so the hose from the plugin is completely open). Continue blowing air into to the fill port until there is no more water coming out of the shower hose.

Step 12: Once there is no more water coming out of the shower hose, turn to cold-water side and continue blowing air into the fill port. Once there is no more water coming out, stop blowing and unplug the shower hose.

Step 13: Turn on the kitchen sink faucet to warm and repeat the process of blowing air into the fill port and monitoring the water coming out of the sink faucet. Repeat for the cold-water side. Once there is no more water coming out, stop blowing and turn off the sink. Turn off the water pump.

Step 14: Remove and clean out the strainer located on the inlet side of the pump and replace.

Using details above, use this checklist to quickly ensure all steps have been taken to winterize your Truma Combi.

☑	Truma WINTERIZATION QUICK CHECKLIST
	Turn off Truma Combi unit & allow to cool completely. (see STEP 1)
	Depressurize water system. (STEP 2)
	Drain tank with faucet & shower on. (STEP 3)
	Place Truma Combi in bypass mode. (STEP 4)
	Drain Truma Combi unit, leaving valve open and ensuring all water has drained from the tank. (STEPS 5,6,7)
	Turn off sink & close petcock valve, Turn on shower hose & set to warm. (STEPS 8, 10)
	With air compressor set to 45 psi, blow air into the fill port of the tank, taking all steps necessary to ensure no water comes out of the breather vent & shower hose. Repeat with shower water on cold. (STEPS 9, 11, 12)
	Turn on kitchen faucet to warm and repeat process of blowing air into fill port until empty. Repeat with faucet water on cold. (STEP 13)
	Remove/clean out strainer & replace. (STEP 14)

Congratulations, you have now winterized your Voyager Trailer!

NOTE: You can use your trailer with the Truma Combi in bypass mode (cold water only) just be sure to not turn on the water heater function at the Truma control panel.

To return your Voyager trailer to service:

Step 1: Close Truma Combi drainage valve (yellow lever).

Step 2: Perform Step 4 in reverse order.

Step 3: Fill water tank and enjoy! Keep in mind that turning on the sink faucet or shower on for the first time you will notice air burping out as air is being purged from the system.

11.11. STORING YOUR TRAILER

11.11.1. Putting Into Storage

To put your Voyager into storage, complete the following checklist items:

☑	PUTTING INTO STORAGE CHECKLIST
	Store trailer in a dry, level, well-ventilated area protected from the elements and from animals or insects. Stabilize wheels with blocks, chocks, or ramps.
	Clean out fridge/freezer (if applicable) and dry thoroughly before re-closing.
	Clean out all interior storage areas - cabinets, drawer, shelves, floors, walls, etc. and allow to thoroughly dry.
	Clean all exterior areas - wipe down trailer exterior walls, roof, wheels, underside of trailer.
	Check tires for damage & set tire pressure to recommended maximum as indicated on the tire.
	Grease suspension if needed (every 5000 miles).
	Winterize Water System (as outlined in Section "11.10.6. Water System Winterization".)
	Inspect all seals (such as around roof, rivets, doors, vents) and repair if needed.
	Extend awning(s), tent and shower accessory (if applicable) and thoroughly clean and allow to dry completely before retracting & storing.
	Ensure all components & attachments are properly secured (such as breakaway switch, cables, safety chains, etc.)
	Put REDARC® into Storage Mode (all circuits off).
	Plug trailer into shore power to keep batteries from draining/dying while in storage.

Putting your REDARC® into Storage Mode:

1. Open your REDARC Homescreen & navigate to the Homescreen Pg. 2 of your REDARC® by clicking the DOWN ARROW.

2. Once on Homescreen Pg. 2 (page with Cold Weather Circuit at top left) click the LEFT ARROW to navigate to the following screen and then click "System Settings" (second button from top left):

3. In System Settings you can select between Touring Mode and Storage Mode by using your right/left arrows. Select the RIGHT ARROW to toggle to Storage Mode.

4. Select TOP RIGHT button to confirm choice to put your trailer into Storage Mode which will disconnect all loads.

Plug trailer into shore power to keep batteries charged while in storage. (Do not keep trailer plugged into tow vehicle while in storage, it will drain the tow vehicle's battery).

11.11.2. Taking Out of Storage

☑	TAKING OUT OF STORAGE CHECKLIST
	Thoroughly inspect exterior & interior for any sign of animal or insect intrusion or damage that may have been sustained while in storage.
	Take REDARC® out of Storage Mode and put into Touring Mode.
	Check battery level & charge if needed.
	Check tire pressure on all tires and re-inflate to recommended PSI if needed.
	Ensure all lights, especially DOT lighting is in proper working order, and replace bulbs if necessary.
	Disinfect water system (as outlined in Section "11.10.5. Water System Disinfection Instructions").
	Turn on all plumbing fixtures, running water through and inspecting for leaks in joints and fittings & repair as needed.
	Test your carbon monoxide detector (per the component manufacturer's instructions).
	Test the smoke detector (per the component manufacturer's instructions).
	Test your shore line power connection, 7-pin connector, all outlets, break-away switch for proper functioning.
	Test Truma Combi Eco furnace and water heater.
	Check all sealants - roof, doorways, air vents, around rivets, etc.
	Inspect & clean the exterior.
	Test brakes (as outlined in Section "7. BREAKING IN YOUR TRAILER").

To take REDARC® out of Storage Mode and put into Touring Mode, follow instructions found in "11.11.1. Putting Into Storage" (in Step 3 select Touring Mode).

It is recommended that you begin bringing your fridge/freezer (optional accessory) down to temperature 24 hours prior to your trip, whilst connected to shore power, as this is when it will consume the most amount of energy.

12. LIMITED WARRANTY

We want you to enjoy your new Voyager trailer and sincerely hope that it will serve you and your family for many years to come. Xpedition Trailers recognizes that while every effort has been made to produce a superior product, there may be times where a problem arises that needs to be addressed. This Limited Warranty gives you specific legal rights. You may also have additional legal rights that vary from state to state, Xpedition Trailers obligations are limited to the terms set forth herein and applicable law. It is your responsibility as the owner to care for and maintain your Voyager trailer and its components (please see Owner's Responsibilities below). Maintenance should be performed regularly and in accordance with this manual and the individual component manufacturer's manuals. The neglect or misuse of your trailer or the components in it will void this Limited Warranty.

LIMITED WARRANTY COVERAGE

Subject to the terms and conditions set forth herein, Xpedition Trailers warrants as follows:

Plumbing and Electrical Systems Coverage:

The plumbing and electrical systems as originally installed by Xpedition Trailers only, for a period of (12) months following the

original purchase of the trailer from an authorized dealer will be covered against defects in material and workmanship. This Limited Warranty begins the date of purchase by the original owner and ends (12) months from such date.

Suspension Coverage (pertains only to models with X-Ride Suspension - 2023 & later):

The suspension as originally installed by Xpedition Trailers only, for a period of (24) months following the original purchase of the trailer from an authorized dealer will be covered against defects in material and workmanship. This Limited Warranty begins the date of purchase by the original owner and ends (24) months from such date. The suspension includes the a-arms, spindles, and cross member only. Wearable components of the suspension such as springs, shocks, bushings, brake plates, washers and bolts are not covered under this warranty (See Non-Warranty items below).

Structural Coverage:

The structure as manufactured originally by Xpedition Trailers only, for a period of (60) months following the original purchase of the trailer from an authorized dealer will be covered against defects in material and workmanship. This Limited Warranty begins on the date of purchase by the original owner and ends (60) months from such date. The structure includes the frame, wall framing, roof and their connection to each other only, and does not include attachments to the structure. Attachments to the structure include but are not limited to: suspension, couplers, vents, steps, windows, doors, component parts, hardware, shades, range, sink, appliances, refrigerator, furnace, water heater, add-ons, lighting, jacks, batteries, electrical components and LPG (liquid propane gas) accessories. (See Non-Warranty items below)

The Limited Warranty will be void if (a) any after-market modifications are made to the trailer, (b) any repairs are made to the trailer using unauthorized parts, (c) the owner fails to maintain the trailer in a reasonable manner in accordance with this owner's manual, (d) in the opinion of Xpedition Trailers, damage has occurred because of misuse, acts of God, negligence, or other causes outside the control of Xpedition Trailers. Under no circumstances should Voyager trailers be exposed to water crossings at or above the bottom of the frame.

This Limited Warranty applies only to "new" trailers and does not extend to any items sold through auction, deemed to be "factory seconds", used for demonstrations/shows or damaged unless specifically stated otherwise by Xpedition Trailers in writing. In the sale of such trailer, Xpedition Trailers will attempt to provide all relevant information regarding the state of the trailer including any known faults, defects, usage or similar, however there may be minor defects or imperfections that have been overlooked. This is purely unintentional and is reasonable to expect that some imperfections or flaws may exist. By purchasing a trailer in this manner, you agree to this statement in full and accept that there are no warranties expressed or implied.

Xpedition Trailers reserves the right to substitute or change the parts and/or components of its trailer from time to time without notice and with no obligation to maintain spare parts or make corresponding changes in its previously manufactured trailers.

This Limited Warranty is not transferable under any circumstances and is only extended to the original purchaser. Should the original owner choose to sell the trailer to a third party, this limited warranty becomes null and void, and the original purchaser shall make no claims or be eligible to file a claim on behalf of the new owner. Any additional terms and conditions not included herein whether oral or written, are not the responsibility of Xpedition Trailers. Please contact us directly if you have any questions regarding any portion of the Limited Warranty.

Non-Warranty Items: Appliances, Component Parts, Accessories and Add-Ons

The manufacturers of some of the appliances, component parts, accessories and add-ons have their own respective warranties and are administered wholly and separately by their respective manufacturer. Xpedition Trailers has no responsibility, nor does it have any obligation related to these warranties and as the original owner you have sole responsibility for completing any warranty forms or registrations in a timely manner.

The following items are not covered under this Limited Warranty: Impact or stone damage to body, chassis or running gear, soiling of fabrics and internal fitments from dust and other airborne substances, water damage due to water crossings, movement or damage caused by dislodgement of appliances and fittings resulting from hard impact or heavy landings or severely rutted roads or tracks, general damage arising from misuse, rust, wheels and tires, powder coat, add-ons, general consumables (e.g. bearings, light bulbs, hardware, etc.), damage due to condensation, normal wear and tear, exposure to elements, wear and tear when the trailer has been used for permanent living purposes.

This trailer is designed solely for its intended purpose of recreational camping and personal use. Xpedition Trailers does not warranty trailers used for commercial, rental, or business purposes, or any recreational vehicle not registered and regularly used in Contiguous 48 states of the United States.

Owner's Responsibilities

1. Carefully review and follow the information and instructions contained in this owner's manual and all supplied component manuals.

2. Properly care for and maintain your trailer as outlined in this owner's manual (as may be modified or amended from time to time) and all supplied component manuals. Please check xpeditiontrailers.com periodically for the most current owner's manual.

3. If a defect is found, submit a warranty claim through the warranty section on xpeditiontrailers.com website no later than (10) days after the discovery of defect. As a secondary option contact your dealer or Xpedition Trailers directly no later than (10) days after the discovery of defect via:

   a. E-mail: sales@xpeditiontrailers.com
   b. Phone: 801-335-5375
   c. Mail: **Xpedition Trailers**
   580 N. Redwood Rd.
   North Salt Lake, UT 84054

4. Deliver your Trailer to an authorized dealer or service center authorized by Xpedition Trailers to perform any necessary, covered warranty repairs, service, or replacement within 30 days after claim has been made and in no event after expiration of Limited Warranty period. All expenses incurred by owner in obtaining warranty service shall be borne solely by owner. No Limited Warranty work shall commence without prior claim submission to Xpedition Trailers through the approved methods listed in this Section. If the authorized repair facility fails to repair the Trailer to manufacturer's standards, XPEDITION TRAILERS, AT ITS SOLE DISCRETION, SHALL HAVE THE FINAL OPPORTUNITY TO REMEDY.

Your satisfaction, confidence and goodwill are of utmost importance to us at Xpedition Trailers and we want every opportunity to fulfill our commitment to you. Xpedition Trailers recognizes that there may be an occasion when a warranty claim is not remedied to your expectations. We encourage you to discuss the situation with your local dealership or service center management and if,

after this, your problem is not resolved to your satisfaction, we welcome you to contact Xpedition Trailers at the address below. We will provide our insight to the problem and strive to recommend a solution that is agreeable to you and the dealership or service center.

CONTACT INFORMATION

For any questions regarding warranties or further clarification please contact us:

E-mail: sales@xpeditiontrailers.com
Phone: 801-335-5375
Mail: Xpedition Trailers
580 N. Redwood Rd.
North Salt Lake, UT 84054

13. THIRD-PARTY COMPONENTS

BRAND	PRODUCT	DESCRIPTION	LINK
1UP	*Roof Rack Bike Rack*	Install Guide	https://1up-usa.com/content/pdf/ROOF-RACK.pdf
		Product Info	https://1up-usa.com/product/roof-rack
23ZERO	*all*	Install Guides	https://23zero.com/install-instructions/
		Product Info	https://23zero.com/
		Returns, Repairs, Warranty	https://23zero.com/returns/
ARK	*X0750*	Product Info	https://www.arkcorporation.us/products/xo750-black-edition-trailer-jack
	XO 33" Corner Steadies (Stabilizer Jacks)	Product Info	https://www.arkcorporation.us/products/ark-xo-drop-down-corner-steadies-black-edition?variant=39577233686608
	all	Warranty	https://www.arkcorporation.us/pages/warranty
Battleborn	*100Ah 12v LiFePO4 Heated Battery*	Manual	https://battlebornbatteries.com/wp-content/uploads/2022/10/BB10012-Manual-Edition.PIM_BB10012Rev026_04242024.pdf
		Product Info	https://battlebornbatteries.com/product/12v-lifepo4-heated-battery-kit/
		Warranty	chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://battlebornbatteries.com/wp-content/uploads/2023/08/Battle-Born-Batteries-10-Year-Limited-Warranty-01.2024.pdf
BRK Electronics	*FG250b*	Product Info	chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://digitalassets.resideo.com/damroot/Original/10000/FG250B_Spec%20Sheet.pdf
Bush Co.	*all*	Install Guides	https://thebushcompanyusa.com/guides_and_instructions/
		Product Info	https://thebushcompanyusa.com/
		Warranty	https://thebushcompanyusa.com/warranty/
CUOffroad	*8k Max Coupler*	Product Info	https://www.cuoffroad.com/product-lines/max-coupler-line/
Dexter	*Dexter K23-181-00 12x2" 7K Electric Brakes*	Manual	chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.dextergroup.com/user_area/content_media/raw/LDServiceOnline.pdf
		Warranty	chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.dextergroup.com/user_area/content_media/raw/dexter-limited-warranty-lit-400-00.pdf
Dometic	*all*	Product Registration	https://www.dometic.com/en-us/support/product-registration-form
	2-Burner Drop-In Gas Cooktop	Manual	https://www.dometic.com/externalassets/dometic-d21-drop-in-cooktop_9108917581_96904.pdf?ref=-740229571
		Product Info	https://www.dometic.com/en-us/outdoor/rv-and-van/rv-kitchen/rv-cooktops/dometic-d21-drop-in-cooktop-138687?v=9108917581

THIRD-PARTY COMPONENTS

BRAND	PRODUCT	DESCRIPTION	LINK
		Warranty	https://www.dometic.com/globalassets/1-outdoor/out-support/out-warranty-statements/cooktops_ranges_slide-ins_and_glass-metal_covers_limited_two-year_warranty-_-78349.pdf?ref=0A9EA62DBE
	CFX3 75DZ Dual Zone Powered 12v Cooler, 75L	Manual	https://www.dometic.com/externalassets/dometic-cfx3-75dz_9600024621_92240.pdf?ref=150643955
		Product Info	https://www.dometic.com/en-us/outdoor/coolers/electric-coolers/dometic-cfx3-75dz-225774?v=9600024621
	CFX3 Coolers	Warranty	https://www.dometic.com/globalassets/1-outdoor/out-support/out-warranty-statements/dometic_refrigerators_limited_two-year_warranty-_-62300.pdf?ref=FB05987CF2
	VA8000 Series Square Sink	Product Info	https://www.dometic.com/en-us/outdoor/rv-and-van/rv-kitchen/rv-sinks/dometic-sng-4237-74952?v=9102303252
		Warranty	https://www.dometic.com/globalassets/1-outdoor/out-support/out-warranty-statements/windows_skylights_sinks_and_faucets_limited_one-year_warranty-_-62321.pdf?ref=B76A21ED62
First Alert	*Kitchen5 Kitchen Fire Extinguisther (KFE2S5)*	Product Info	https://www.firstalert.com/us/en/products/fire-extinguishers/home/kitchen5-kitchen-fire-extinguisher-ul-rated-5-bc-white-kitchen5/
		Manual	https://digitalassets.resideo.com/damroot/Original/1/m08-0037-009_kitchen5.pdf
		Safety Data Sheet	https://digitalassets.resideo.com/damroot/Original/1/FIRST-ALERT-FX-SDS-BC-171023.pdf
MAXXAIR	*Maxxfan Deluxe 00-06200*	Product Info	https://www.maxxair.com/products/fans/maxxfan-deluxe-00-06200K.aspx
		Warranty	https://www.maxxair.com/service-support/warranty/
REDARC	*Manager 30*	Brochure	https://cdn.intelligencebank.com/au/share/yE9N/KYvX/3BMDv/original/Manager30+Brochure+NA+English
REDARC	*Manager 30*	Manual	https://cdn.intelligencebank.com/au/share/yE9N/zJpI/A9Mk1/original/BMS1230S3-NA+Manual+English
	Redvision	Quickstart Guide	https://op1.0ps.us/pdf/opplanet-redarc-redvision-quick-start-guide-pdf.pdf
	Total Vehicle Management System #TVMS-128012V80A	Brochure	https://cdn.intelligencebank.com/au/share/yE9N/KYvX/e3yBp/original/RedVision+TVMS+Brochure+%281%29
RV Safe	*CO & Propane Gas Alarm*	Manual	https://rvsafealarm.com/files/RVSafe_Manual.pdf
		Product Info	https://rvsafealarm.com/files/RVSafe_InfoSheet.pdf

BRAND	PRODUCT	DESCRIPTION	LINK
	Total Vehicle Management System #TVMS-128012V80A	Manual	https://cdn.shopify.com/s/files/1/2204/8993/files/RedVision_Instruction_Manual_2e83ec-cd-ddfa-40a5-879c-bf-532f9349ac.pdf?v=1599089897
Seaflo	*33-Series Diaphragm Water Pump SFDP1-030-045-33*	Product Info	https://www.seaflousa.com/wp-content/uploads/2014/09/33-Series-General-Information.pdf
Seaflo		Manual	https://www.seaflousa.com/wp-content/uploads/2014/09/33-Series-Instructions.pdf
		Warranty	https://www.seaflousa.com/seaflo-product-warranty/
Truma	*Truma Combi Eco*	Manual	https://www.truma.com/us/download/truma-combi-operating-instructions/?wpdmdl=76122&re-
		Product Info	https://www.truma.com/us/products/heating-systems-us/combi-us/truma-combi-eco/
		Quick Start Guide	https://www.truma.com/wp-content/uploads/quick-start-guide-heating-combi-US-EN.pdf
		Troubleshooting	https://www.truma.com/us/download/truma-combi-troubleshooting/?wpdmdl=76127&re-
Xantrex	*Prowatt SW2000 / 806-1220*	Manual	https://xantrex.com/library/inverters/prowatt-sw-inverter/owners-guide-english/
		Product Info	https://xantrex.com/library/inverters/prowatt-sw-inverter/data-sheet-english/
		Warranty	https://xantrex.com/library/inverters/prowatt-sw-inverter/warranty-policy-north-america/

14. TRAVEL LOG

ALABAMA	GEORGIA	MAINE	NEBRASKA	OHIO	TEXAS
ARIZONA	IDAHO	MARYLAND	NEVADA	OKLAHOMA	UTAH
ARKANSAS	ILLINOIS	MASSACHUSETTS	NEW HAMPSHIRE	OREGON	VERMONT
CALIFORNIA	INDIANA	MICHIGAN	NEW JERSEY	PENNSYLVANIA	VIRGINIA
COLORADO	IOWA	MINNESOTA	NEW MEXICO	RHODE ISLAND	WASHINGTON
CONNECTICUT	KANSAS	MISSISSIPPI	NEW YORK	SOUTH CAROLINA	WEST VIRGINIA
DELAWARE	KENTUCKY	MISSOURI	NORTH CAROLINA	SOUTH DAKOTA	WISCONSIN
FLORIDA	LOUISIANA	MONTANA	NORTH DAKOTA	TENNESSEE	WYOMING

START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING
							✕✕✕✕✕

NOTES

DATE RANGE		LOCATION		TOW VEHICLE ODO. READING			
START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING
							✕✕✕✕✕

NOTES

		LOCATION		TOW VEHICLE ODO. READING			
START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING
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NOTES

DATE RANGE		LOCATION		TOW VEHICLE ODO. READING			
START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING
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START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING
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DATE RANGE							
START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING
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NOTES

TRAVEL LOG

START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING

NOTES

DATE RANGE		LOCATION		TOW VEHICLE ODO. READING			
START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING

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START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING

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START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING

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DATE RANGE							
START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING

NOTES

TRAVEL LOG

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NOTES

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							★★★★★

NOTES

		LOCATION		TOW VEHICLE ODO. READING			
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							★★★★★

NOTES

DATE RANGE		LOCATION		TOW VEHICLE ODO. READING			
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START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING
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START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING
							★★★★★

NOTES

DATE RANGE							
START	FINISH	START	DESTINATION	START	FINISH	TOTAL MILES	RATING
							★★★★★

NOTES

15. MAINTENANCE LOG

DATE	SERVICE / REPAIR COMPLETED	MILEAGE

16. CHECKLISTS

TAKING OUT OF STORAGE

- Inspect interior & exterior for damage sustained while stored.
- Take REDARC out of Storage Mode & put into Touring Mode.
- Check battery level & charge if needed.
- Grease suspension arms & hubs if needed (every 5,000 miles).
- Check lights / DOT lights.
- Disinfect water system.
- Run water through system & check for leaks.
- Test carbon monoxide detector, fire extinguisher & smoke detector.
- Test Truma Combi.
- Check seals/sealants.
- Test all connections & circuits.
- Test brakes & brakeaway switch.

COUPLING

- Make sure tow vehicle & hitch are rated for the GVWR of your trailer.
- Park trailer & tow vehicle on firm, level surface.
- Place wheel chocks.
- Align trailer coupler to tow vehicle hitch & lower into hitch using tongue jack & lock into place w/hitch pin & retaining pin.
- Connect safety chains (crossing first).
- Connect breakaway lanyard to tow vehicle frame, lock into place.
- Connect 7-pin plug.
- Connect DC to DC charger.
- Raise jack & lock in stowed position.
- Remove wheel chocks.
- Drive tow vehicle forward.

PRE-TOW

- Check tires, wheels & lug nuts.
- Check tire pressure: inflate to pressure stated on VIN label.
- Coupler secured & locked.
- Safety chains properly rigged to tow vehicle.
- Test DOT lighting.
- Test trailer brakes.
- Safety breakaway lanyard fastened to the tow vehicle.
- Cargo properly loaded, balanced & tied down.
- Proper weight distribution & tongue weight.

GENERAL TRAILER MAINTENANCE

- Lug Nuts: re-tighten at first 10/25/50/100 miles & every 3000 miles.
- Brakes: Adjust within first 200 miles & every 3000 miles. Replace as recommended by a professional.
- Suspension Arms & Hubs: grease every 5000 miles.
- Tires: Rotate every 5000 miles & replace as needed.
- Slides, Hinges & Latches: lubricate & tighten as needed.
- Test/replace smoke detector, fire extinguisher & carbon monoxide detector according to manufacturer.
- Use mild cleanser w/microfiber cloth to clean interior & exterior.
- Replace seals/sealants as needed.

PUTTING INTO STORAGE

- Store trailer in dry, level, well-ventilated area protected from animals & insects. Stabilize wheels.
- Clean out fridge/freezer & dry thoroughly. Prop open.
- Clean all interior & exterior surfaces and dry thoroughly.
- Check tires & set tire pressure to recommended psi.
- Grease suspension arms & hubs if needed.
- Winterize water system.
- Inspect all seals & repair if needed.
- Extend tent, awning(s) & shower (if applicable) and clean & dry before storing.
- Secure all components & attachments.
- Put REDARC into Stroage Mode (all circuits off).
- Plug trailer into shore power.

WINTERIZING YOUR WATER SYSTEM

For detailed instructions, go to: xpeditiontrailers.com/owner-resources.

- Turn off Truma & cool completely.
- Depressurize water system.
- Drain tank w/faucet & shower on.
- Put Truma in bypass mode.
- Open Truma valve & drain all water from tank.
- Turn off sink, close petcock valve. Turn shower hose on warm.
- With air compressor set to 45 psi, blow air into tank fill port, until no water comes out of breather & shower hose. Repeat on cold.

continued ⇨

- Turn on kitchen faucet to warm & repeat process of blowing air into fill port until empty. Repeat with faucet water on cold.
- Remove/clean out strainer & replace.

To return your Voyager trailer to service:

- Close Truma drainage valve.
- Take Truma out of bypass mode.
- Refill water tank.

WATER SYSTEM DISINFECTION

- Prepare chlorine solution using 2.5 gallons water & 5/8ths cup household bleach.
- With tank empty, pour chlorine solution into tank.
- Fill remainder of tank with potable water.
- Open each faucet and run water until chlorine odor is detected in the water discharged. Don't forget both hot & cold water taps.
- Allow system to stand for at least 4 hours with solution.
- Drain and flush with potable water.

2024 VOYAGER

NOTE: These checklists were created to be a helpful aid & not intended to be a comprehensive guide. For more information, contact your dealer or Xpedition Trailers. Please check our website often at xpeditiontrailers.com/owner-resources for updates to this document, as information is subject to change.

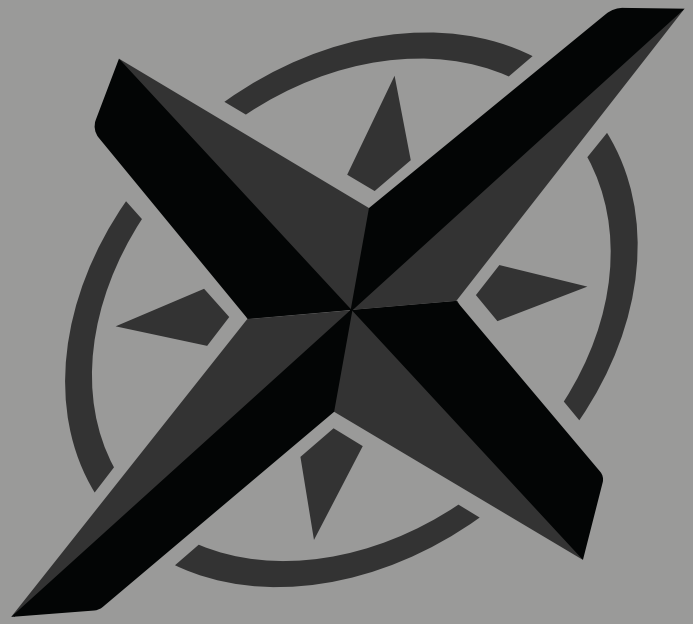
XPEDITION TRAILERS

SLC, UT
#801-335-5375
INFO@XPEDITIONTRAILERS.COM
XPEDITIONTRAILERS.COM

XGRID CAMPERS

LAS VEGAS, NV
LOREN WALKER
#702-728-5934
LOREN@XGRIDCAMPERS.COM

KNOXVILLE, TN
CHRIS LONG
#865-353-8880
CHRIS@XGRIDCAMPERS.COM



MY VOYAGER INFO

OWNER INFORMATION

NAME:

ADDRESS:

PHONE:

EMAIL:

TRAILER INFORMATION

VIN:

MODEL YEAR:

DATE OF PURCHASE:

PURCHASE LOCATION:

DATE OF REGISTRATION:

PLATE NUMBER:

TIRE SIZE:

OPTIONS: