

VAN HAUS OWNERS MANUAL



THANK YOU FOR CHOOSING VAN HAUS

Every Van Haus van is personal crafted and hand built by the professionals at Van Haus. Your Van Haus van will provide you years of great fun and adventure. Use this guide to learn how to use, maintain, and repair your van.



VAN HAUS CREW 2022

USING YOUR VAN

ELECTRICAL

Outlets : Inverter (Xantrex) must be on for outlets to work. Locate the inverter remote panel and make sure the power button is on. The light will be green. Once it has booted up all outlets should work.

GFCI protection : The outlets are GFCI protected and are connected in series to the main GFCI outlet. If the outlets are no working than check the main GFCI to see if it may have tripped. If the outlet has tripped then it will need to be reset. Push the reset button to reset the outlets.

USB ports : Your van is equipped with duplex USB ports. You may have either 2.1 amp or 4.1 amp USB outlets. The USB outlets are always powered and ready for use. Simply plugin your USB cord and connect your devise to power it.

Replacing a fuse : Locate fuse panel inside the electrical box. Determine the fuse that is blown and replace with same amp fuse.

Overhead lights : Powered by the dimmer switch located up front on the passenger side of the van. Rotating the dimmer switch clockwise you will here a click and that will turn the lights on, then continuing to rotate the dial will increase the light output, Rotating the switch counter clockwise will dim the lights and also allow you to turn them off by rotating until you hear a click.

Galley Task Lights : Controlled by a switch located near the task lights on the upper cabinets

Step lights : Controlled by the switch located near the main light dimmer switch on the passenger side of van up-front.

Reading Lights : Reading lights have their own switch that is built-in to the light. Push on the light to turn on or off.

Porch Light : Porch light has two colors while and amber light. Flip the switch up to turn on the white light, flip the switch down to turn on the amber light. The middle position of the switch is the off position.

CHARGING THE VAN

You can charge the van one of **three** ways

Plug in Charging

Your van is equipped with a 30amp shore power connection. It can be connected to a 30 Amp plug commonly found in a camp ground, or you can use the supplied adapter to plug it into a standard home outlet. Once plugged in the Inverter/Charger will automatically switch over to house power and start charging the van, also all outlets will become active and powered from house power as well

Solar Charging

Your van is equipped with a Victron MPPT solar panels on the roof to charge the vans battery system. The van needs to be parked in a location where it can get sun on the solar panels, the more direct the better. You can view the status of the solar charger by using the Victron App

Van Alternator Charging

Start the engine of the van and the DC to DC charger will start charging the van after about 90 seconds. Fully charging the van could take four plus hours.



Download Victron App for your smart phone below

<https://www.victronenergy.com/support-and-downloads/software>

BATTERY INFO

Your van contains LiFePO4 Blue Lithium Ion Deep Cycle Battery(s).

Below is a table that shows battery voltage for a 12 Volt battery pack vs. Depth-Of-Discharge. Take these Voltage values with a grain of salt, the discharge curve is so flat that it really is hard to determine SOC from Voltage alone. Small variations in load, and accuracy of the Volt meter, will throw off the measurement.

State-Of-Charge	Voltage at rest (zero current)
100%	14.0 Volt
99%	13.8 Volt
90%	13.4 Volt
70%	13.2 Volt
40%	13.2 Volt
30%	13.0 Volt
20%	12.9 Volt
17%	12.8 Volt
14%	12.6 Volt
9%	12.4 Volt
0%	10.4 Volt

When your battery reaches 12.1 the LVD will then turn off all DC power to the van until the voltage is raised to a safe level. You can view or change the cutoff settings by downloading and install the **VictronConnect** app on your phone. The app will allow you to change settings, turn on or off the power to your DC devices and also check current voltage of the battery.



Download LifeBLUE App for your smart phone below

<https://www.victronenergy.com/support-and-downloads/software>

LOW VOLTAGE CUTOFF DEVICE (LVD)

Your van is equipped with a Victron Connect low voltage device (LVD) that has been set to 12.1.

USING THE DOMESTIC WATER SYSTEM

Our water system is designed to be used one of two ways.

Fresh Water Tank : To use your water tank, locate the water fill on the outside of your van. Remove the cap using a key or a quarter works as well. Fill the tank using the fresh water hose supplied to you with your van. Once your tank is full, water will start to leak out from below out of the vent tube. Shut the water off and replace the cap. Now go into the van and turn on the water pump switch, that will pressurize the system and allow water to flow from the faucet. Leave the water pump switch on while using the water system, The pump can then be turned off when done using the water system or when breaking up camp.

City Water Connection : Connect supplied fresh water hose to city water connection on van and then to pressure regulator on external faucet. Turn on the faucet and water will pressurize in the van, you now can use the water system as normal, without using the water from your tank or having to turn your water pump on.

REAR SHOWER

The rear shower features a quick connect fitting. (part # 9-SA-PT-ADPT) You can purchase additional fittings for other setups like hose/ sprayer or recirculating showers using the above part number.

To use the shower make sure the water pump is turned on. Insert the quick connect hose into the shower port fitting. Turn the water on and adjust hot and cold to desired temperature.

When finished, turn off water and remove the quick connect hose by pushing in on the end of the quick connect fitting to release.

VAN MAINTENANCE

A LITTLE MAINTENANCE CAN GO A LONG WAY

SOLAR PANELS

In most cases, you won't need to clean your solar panels often, if at all. After all, anything that accumulates dirt on them (for example, dust or pollen), will get washed off the next time it rains. There are some times it might make sense to clean your solar panels though. If you've got a lot of bird droppings on your panels, rain might not wash these off very readily, so it's a good idea to clean them off. Also, if you live in a state that's prone to droughts – or, if it rains, it's only a very light, misty rain, you might need to clean them every now and then.

The most effective way to clean your solar panels is with a hose and a bucket of soapy water. Essentially, in the same manner you would wash your van at home. Because you don't want to scratch the panels in any way, it's best to use just water and a non-abrasive sponge or RV brush to apply soapy water. Keep in mind that you shouldn't use any type of high-pressure water sprayer when washing off your solar panels. A high-pressure attachment can damage the solar panels themselves.

CABINETS

Hardware - Check hinges and latches to make sure they are tight and secure. Tighten screws as needed. Check latch is tight and adjust hood if needed. You can adjust each hood by loosening the two screw on the black latch catch. Then slide toward rear of cabinet to tighten latch. Cleaning - Warm soapy water.

INVERTER/CHARGER

WARNING ELECTRICAL SHOCK HAZARD

Turning the Power button to Standby does not disconnect DC battery power from the Freedom XC. You must disconnect from all power sources

before working on any circuits connected to the unit. Failure to follow these instructions can result in death, serious injury, or equipment damage.

Periodically you should:

- With all sources of power off, clean the exterior of the unit with a damp cloth to prevent the accumulation of dust and dirt.
- Ensure that the DC cables are secure and fasteners are tight.
- Make sure the ventilation openings are not clogged.

TIMBERLINE SYSTEM (IF EQUIPPED)

Hydronic System

- The glycol system does not require annual maintenance.
- It is recommended to test the alkalinity in the system coolant annually.

Furnace

- The Timberline system is equipped with the efficient Autoterm Binar Compact Diesel or Gasoline burner. This burner is designed for optimal use in all climates including high altitude up to 10000 feet. There is limited required maintenance for the Autoterm burner.
- It is recommended to exercise the burner every month letting the burner run for 15-20 minutes. If the burner is utilized monthly there is no annual or hour based maintenance required.

Exhaust System

- The exhaust system should be inspected annually for damage.

FLOORING

Nautolex marine products have been designed to provide years of dependable service with normal use and care. Regular care will help to keep Nautolex marine products looking their best. However, some stains can become permanent if not removed quickly. We recommend cleaning as soon as possible after a stain is discovered.

Weekly Cleaning

Each week, wipe surfaces with a soft, damp cloth and towel dry. In very rainy weather, cover or remove cushions since seams can trap and absorb moisture. Cushions should be stored in a dry, well-ventilated area.

Special Cleaning Problems

For dirt or stains that cannot be removed with a damp cloth, follow these steps:

- **Mild Soap and Water Solution.** Use mild soap and water solution and if necessary, a soft-bristle brush. Rinse cleaned area with fresh water then dry with a clean, lint-free cloth.
- **DO NOT USE** abrasive powders, steel wool, industrial strength or solvent cleaners, vinyl “conditioners” or “protectors”. These products should be avoided on Nautolex marine products. Undiluted bleach or lacquer can dull or damage the marine product. If in doubt about a detergent or cleaner, test a patch in an inconspicuous place before applying in a larger place.
- **Caution:** Suntan lotion and insect repellents can cause rapid staining and deterioration of the surface of the product. Remove these products immediately after contact. Wash the area with a mild soap and water solution, rinse with clean, warm water, and towel dry.

WINTERIZATION

If your van is going to be in sub freezing temperatures and will not be occupied below are recommended steps to protect the van

TIMBERLINE SYSTEM (IF EQUIPPED)

System Coolant

- The system coolant does not require winterization.
- The system coolant can be tested for its freeze protection value if desired.

DOMESTIC WATER SYSTEM

The domestic water circuit needs to be drained or protected using RV winterizing fluid.

- Turn on water pump and run faucet until air comes out.
- Turn off the pump and leave the faucet open until all pressure has been released.
- Close faucet.
- Repeat steps for each faucet or spray port.

● If you are not going to be using the van or water system during winter, you can add RV antifreeze to the fresh water system to further prevent freezing.

- After following the steps above, add 1/2 gallon of RV antifreeze to the fresh water tank.
- Turn on the pump and turn on faucet until you see RV antifreeze coming out.
- Repeat steps for each faucet or spray port.