

TIFFIN

MOTORHOMES

2025 Owner's Manual



TIFFIN
GH1



TIFFIN

MOTORHOMES

DISCLAIMER

Many of the features and appliances described in this manual might not be reflected in the actual Van purchased, depending on the options and models selected by the Van owner. All items, materials, instructions, and guidance described in this manual are as accurate as possible at the time of printing. However, due to Tiffin Motor Homes' ongoing and dedicated commitment to excellence, improvement of Tiffin's Vans is a continuing process. Consequently, Tiffin Motor Homes reserves the right to make substitutions and improvements in its makes and models of Vans without prior notification. Substitutions of comparable or better materials, finishes, appliances, instrumentation, and instruction might be made at any time it is deemed prudent to provide the customer with the best possible Van, meeting the customer's requirements.

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TIFFIN

Many Adventures. One Dream.™



There are many ways to adventure in our products, but all customers share a similar dream of leisure, exploration, and fun while making lifelong memories with the most important people in their lives.

Our products are the vehicle for customer's adventures and helping them realize their dreams.

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TIFFIN

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GENERAL INFORMATION

Chapter

1

WELCOME TO A LIFE OF “ROUGHING IT SMOOTHLY”



Tiffin Motor Homes is excited that you have entered the world of Van travel, and we believe that you and your family will enjoy this way of life for years to come. Your Tiffin-built Tiffin GH1 provides all the comforts of home while allowing you to travel freely as you choose.



But, before heading out on the open roads, become familiar with this owner's manual to learn more about the operations of your Tiffin GH1.

Also, work with your dealer to learn as much as possible about the functionality and features of your coach.

Remember, *“wherever you go, we go.”*

ABOUT THIS MANUAL

Carefully read through this manual to understand how everything in your Tiffin GH1 works.

NOTE: This operator's manual describes the features of your Tiffin GH1 and includes instructions for their safe use. The manual, however, including its photography and illustrations, is of a general nature. Some equipment and features described in this manual might be optional or unavailable on your model.

The instructions included are meant to serve as a guide and in no way extend the responsibilities of Tiffin Motor Homes beyond the standard written warranty. The descriptions, illustrations, and specifications in this manual were correct at the time of printing and Tiffin Motor Homes reserves the right to change specifications or design without notice, and without incurring the obligation to install the same on products previously manufactured.

Many of the instruction sheets and manuals for the various appliances inside your Tiffin GH1 have been incorporated into this manual for your convenience.



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DELIVERY

Throughout the entire manufacturing process, your Tiffin GH1 has been regularly inspected by our qualified personnel to ensure that you receive the finest product of the highest quality. However, the final inspection at our factory is not the last one. The pre-delivery inspection and system check that your dealer performs are the final inspections before you receive your new Tiffin GH1. Your dealer is also available to assist you in understanding the warranties and completing the necessary forms to activate the warranties for the various appliances and accessories installed in your Tiffin GH1.

DEALER RESPONSIBILITIES

1. A **pre-delivery inspection and systems check** is performed to ensure a thorough inspection of the Tiffin GH1 and the proper operation of all factory-installed components.
2. A **customer walk-through** is performed to familiarize the buyer with the Tiffin GH1, its systems and components, and their proper and safe operation.
3. Delivery of the **Owner's Information Package**, which contains warranty cards and registrations for the vehicle and all factory-installed components from other vendors and suppliers to Tiffin Motor Homes. The detailed operation and maintenance instructions on these components are also included in this package.
4. Assisting the customer in **completing the registration forms** to avoid loss of warranty coverage. The dealer will review the limited-warranty provisions with the customer to stress the importance of completing the warranty cards and registration forms for the components in the Tiffin GH1 to enable the manufacturers to receive them within the prescribed time limits.
5. Providing the customer with **information regarding warranty and non-warranty work** on the vehicle and its separately warranted components.

CUSTOMER RESPONSIBILITIES

The customer is responsible for regular and proper maintenance of the Tiffin GH1. Properly maintaining your Tiffin GH1 will prevent conditions arising from neglect that are not covered by your Tiffin Motor Homes limited warranty. The maintenance guidelines in this manual and any other applicable manuals must be followed. It is your responsibility and obligation to return the vehicle to an authorized dealer for repairs and service.

To assist you in avoiding problems with your Tiffin GH1, Tiffin Motor Homes recommends that you do the following:

1. **Read the warranty.** Go over it thoroughly with your dealer to make sure you understand all the terms and conditions of the warranty.
2. **Inspect the Van;** do not accept delivery until you have gone through the Van with the authorized Tiffin Motor Homes dealer.
3. **Ask questions** about anything you do not fully understand about your Van. Tiffin Motor Homes is here to serve you and ensure that you have all the information necessary for the safe and enjoyable use of your new Tiffin GH1.
4. When you are taking delivery, **set an appointment for adjustments.** This appointment must be within two weeks after you accept delivery.
5. You are responsible to **use your Tiffin GH1 in a responsible, safe manner.** Take the time to familiarize yourself with the proper operation of the unit before you attempt to use it.

REPORTING SAFETY DEFECTS (USA)

575.6(a)(2)(i) At the time a motor vehicle manufactured on or after September 1, 1990 is delivered to the first purchaser for purposes other than resale, the manufacturer shall provide to the purchaser, in writing in the English language and not less than 10 point type, the following statement in the owner's manual, or, if there is no owner's manual, on a one-page document:

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying TIFFIN GH1S.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Tiffin Motor Homes.

To contact NHTSA, you may either call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://www.safercar.gov>; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, S.E., Washington, DC 20590. You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

(ii) The manufacturer shall specify in the table of contents of the owner's manual the location of the statement in 575.6(a)(2)(i). The heading in the table of contents shall state "Reporting Safety Defects."

REPORTING SAFETY DEFECTS (CANADA)

Vehicles domiciled in Canada that are thought to have a defect that could cause a crash, injury, or death, should immediately be reported to Transport Canada and Tiffin Motor Homes at 1-256-356-8661.

If Transport Canada receives similar complaints, it may open an investigation; if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, Transport Canada cannot become involved in individual problems between you, your dealer, or Tiffin Motor Homes.

To contact Transport Canada, call the Defect Investigation and Recall Division toll-free in Canada at 1-800-333-0510 or 1-819-994-3328 in the Gatineau-Ottawa area or internationally.

By Mail:

Transport Canada – ASFAD
330 Sparks Street
Ottawa, ON
K1A0N5

SIGNALEMENT DES DEFAUTS DE SECURITE A TRANSPORT CANADA POUR LES PROPRIETAIRES CANADIENS

Si vous pensez que votre véhicule présente un défaut lié à la sécurité, vous devez immédiatement en informer Transports Canada (TC) ainsi que Tiffin Motor Homes, Inc.

Si Transports Canada reçoit des plaintes similaires, il pourrait ouvrir une enquête à ce sujet. Si le Ministère constate l'existence d'un défaut de sécurité au sein d'un groupe de véhicules, il pourrait ordonner une campagne de rappel et de réparation.

Toutefois, Transports Canada ne peut pas intervenir en cas des problèmes individuels entre vous, votre concessionnaire ou Tiffin Motor Homes, Inc.

Vous pouvez communiquer avec Transports Canada par l'un des moyens suivants:

Par téléphone: 819-994-3328 (région de Gatineau-Ottawa ou international)

Numéros sans frais: 1-800-333-0510 (au Canada)

Par la poste:

Transports Canada – ASFAD
330, rue Sparks
Ottawa (Ontario)
K1A 0N5

Vous pouvez également consulter le site Web de Transports Canada à tc.canada.ca pour remplir en ligne un formulaire de plainte de défauts.

Visit www.tiffinmotorhomes.com for access to related materials.

TIFFIN MOTOR HOMES LIMITED WARRANTY

The Tiffin Motor Homes limited warranty is provided to you by your authorized Tiffin Motor Homes dealer during the pre-delivery inspection. When you inquire about your Tiffin Motor Homes warranty, refer to this document. If you require an additional copy of the warranty or other information, contact:

Tiffin Motor Homes, Inc.
105 2nd St. NW • Red Bay, AL 35582
Phone: 256-356-8661
Email: info@tiffinmotorhomes.com

Visit www.tiffinmotorhomes.com for access to related materials.

WARRANTY SERVICE

The limited warranty period for vans is 2 years or 24,000 miles, whichever occurs first.

All warranty services need to be completed during the limited warranty period (i.e., 2 years or 24,000 miles). Any service work performed after the expiration of the Tiffin Motor Homes limited warranty WILL NOT be covered.

Exceptions may be made to this deadline, because of the unavailability of parts and/or service appointment time where work is to be performed. However, do not rely on the possibility of an exception; schedule any desired in-warranty work before your warranty expires.

OWNER'S INFORMATION PACKAGE

The Owner's Information Package includes valuable documents about your Tiffin GH1 and its components and systems. By consulting the booklets and instruction manuals included in the Owner's Information Package, you will learn how to operate, maintain, and troubleshoot these items safely and effectively. The Tiffin Motor Homes Owner's Manual does not cover every possible detail of equipment—standard and/or optional—installed on or in your vehicle.

As with all valuable documentation, keep them in a safe, secure place for your later use and consultation. When you complete and mail to the respective manufacturers any warranty/guaranty registration cards, make a photocopy of both sides of each card before mailing, and keep the photo copy in your permanent records for your Tiffin GH1.

CUSTOMER RELATIONS

If you wish to schedule maintenance or service, or order parts, you must notify your local authorized Tiffin Motor Homes dealership to set up an appointment. If you are unsure of the location of your nearest authorized Tiffin Motor Homes dealership, access the Tiffin Motor Homes website at www.tiffinmotorhomes.com, and then click on the "Locate Dealer" button, then enter the appropriate search criteria, such as state and retail sales, and then click on the red ball located on the map to find dealer information in that area.

SAFETY MESSAGES

Note that several labels listed in this manual represent items that need your attention. The Danger, Warning, Caution, and Notice labels alert you to precautions that might help you to avoid damage to your Tiffin GH1, its equipment, or your personal safety. Read and follow them carefully.



WARNING

WARNING indicates a hazardous situation, which, if not avoided, could result in death or serious personal injury, or damage to the equipment.



CAUTION

CAUTION indicates a hazardous situation, which, if not avoided, could result in minor or moderate personal injury, or damage to the equipment.



DANGER

DANGER indicates a hazardous situation, which, if not avoided, will result in death or serious personal injury, and damage to the equipment.

NOTICE

NOTICE is used to address practices not related to personal injury, or damage to the equipment.

TIFFIN GH1

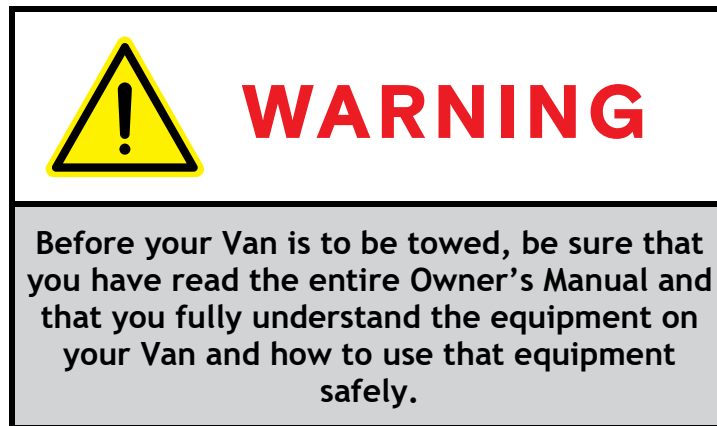
Safety Instructions

Chapter

2

SAFETY CONSIDERATIONS

Before using your Tiffin GH1, especially for the first time or after a long period of non-use, read all the instructions in the Owner's Manual and the chassis-manufacturer's manual thoroughly. There are several safety considerations that you must be aware of and follow while your Van is in motion. These safety considerations, as well as others meant to preclude any damage to the Van, are listed in this chapter. Besides the driver, it would be helpful for the passengers to be familiar with these safety considerations and precautions too.



GENERAL WARNINGS

In general, several "common-sense" safety precautions must be taken every time the Tiffin GH1 is to be used on the road. These precautions include:

- Only seats with seat belts must be used while the Van is in motion; the seat belts should be worn by all people (driver and passengers) in the Van at that time.
- While the Van is moving, lock all seats in the forward-facing position to provide maximum safety for the users.
- While the Van is moving, no one (e.g., young children) inside should ever stand or kneel on the seats.
- In the majority of states, it is the law that seat belts must be used (fastened snugly about the chest and hip areas) anytime the Van is in motion, to provide desired protection in the event of a crash.
- Any fire extinguishers must be inspected on a monthly basis to ensure that each extinguisher is properly charged and ready for operation.
- Any smoke and/or carbon monoxide (CO)/liquid propane (LP) alarms must be regularly inspected and tested. If being used for the first time, the smoke and/or CO alarm must be properly activated and fresh batteries installed before the Van is placed into service. Never sleep in a Van not having functional smoke and/or CO alarms.
- While the Van is moving, the sleeping facilities are not to be used.
- Movement inside the Van should be minimized while the Van is in motion.

- Never leave the driver's seat unattended while the Van is in motion.

PRE-DEPARTURE CHECKLIST

For your continued safety and convenience, the following is a representative "checklist" designed to ensure your safety while driving:

- ✓ Clean all windows, mirrors, and light lenses (front, back, and sides) to ensure that you can "see" and "be seen."
- ✓ Reposition any mirrors or other fixtures to provide an unobstructed view (front, back, and sides) from the driver's seat.
- ✓ Remove or secure all loose fixtures (e.g., awnings, flags, antennas, portable lights) to keep them from falling from the Van when the vehicle is in motion.
- ✓ Make a "walk-around" visual inspection of the Van to note any irregularities (e.g., loose trim) or problems (e.g., low tires);
correct noted problems accordingly.
- ✓ Check all exterior storage-compartment doors to make sure they are properly latched. If need be, check inside all exterior compartments to make sure that all cargo and equipment are properly secured so that they do not work loose and become hazards during sudden starts and stops.
- ✓ Check the tires for proper inflation (i.e., cold-inflation pressure: 50 psig). If the Tiffin GH1 has not been used recently, make sure that the "cold-inflation" pressure is maintained. If the Van has recently been used, make sure that the "hot inflation" pressure (see the tire-manufacturer's literature to determine appropriate "hot inflation" pressure) is maintained on each axle. Not all axles require the same tire pressure.
- ✓ Examine wheel lug nuts to ensure their proper tightness. If any lug nuts are found to be loose, first check the fit of the wheel to the hub to make sure the wheel is mounted properly, which would produce a "wobbly" wheel when the Van is in motion, and then tighten the lug nuts.
- ✓ Check all fluid levels (e.g., engine oil, transmission fluid, coolant, power-steering fluid, brake fluid, battery fluid [if applicable], windshield-washer solvent) to ensure that correct levels are maintained.
Fill any low reservoirs, as needed.
- ✓ DO NOT SUBSTITUTE any other fluids for specified oils, transmission fluid, brake fluid, or other hydraulic fluids—substitutions are not acceptable and can void warranties.
- ✓ Before starting the Van engine, make sure all lines (e.g., water, sewer) and electrical power cords are disconnected and properly stowed.
- ✓ Check all interior doors (e.g., shower, microwave, refrigerator, etc.) to ensure that they are locked and/or secure. Make sure that all large items are stored away and secure (e.g., coffee pots, corning ware, etc.).



DRIVING SAFETY

Various adjustments must be made to ensure the driver's comfort and the safety of the Van before starting and moving the Van; these include:

- Do not attempt to adjust the driver's seat while the vehicle is moving.
- Do not adjust the tilt steering while the vehicle is moving.
- The driver must be familiar with all gauges, instruments, switches, and indicators on the instrument panel before driving.
- Do not operate the cruise-control function during any extreme weather situations (e.g., snow, ice, sleet, heavy rain), when road conditions are hazardous (icy, snowy, winding roads, city traffic), when a constant speed of the Van is not possible, or if traffic conditions do not warrant such.
- Avoid driving the Van through any standing water. If deep enough, such water can wet the brake pads and cause fading of the brakes (i.e., loss of braking power) and lead to excessive sliding or pulling to one side or the other.



Figure 0-1: Driver's Side Dashboard and Instrument Console



CAUTION

DO NOT overextend either shade as this might block the view of the road.

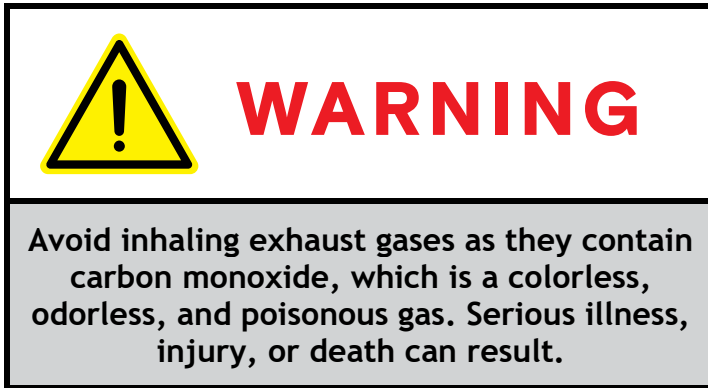
- NEVER use any other "burning" equipment (e.g., charcoal grills, wood stoves, butane lights, propane lights) inside the Van. Doing so might cause fires and/or asphyxiation.



WARNING

Any portable, fuel-burning equipment (e.g., charcoal, propane, butane, wood) must not be used inside the Van. Any use of such equipment inside the Van might readily cause fires and/or asphyxiation by carbon-monoxide poisoning. Moreover, such unauthorized use will probably invalidate your Van insurance policy.

CARBON MONOXIDE WARNING



A properly maintained engine exhaust and ventilation system is the best way to protect against carbon monoxide's entry into the vehicle. Tiffin Motor Homes recommends that the exhaust system and body be inspected by a qualified Van service center:

- Each time the vehicle is serviced for an oil change.
- Whenever a change in the sound of the exhaust system is noticed.
- Whenever the exhaust system, underbody, or rear of the vehicle is damaged.

To allow proper operation of the vehicle's ventilation system, keep the front ventilation inlet grill clear of obstructions at all times.

Do not occupy a parked vehicle with the engine running for an extended time, and do not run the engine in confined areas, such as a garage.

Your Van is equipped with a combination CO/Gas Alarm (Figure 0-2). This alarm combines a single compact system that detects both Carbon Monoxide (CO) and Propane (LPG) gas. It will detect carbon monoxide gas from any combustion source such as from the furnace, oven/range, water heater, refrigerator, chassis engine, and generator engine.

CO GAS DETECTOR

To activate the CO-gas sensor on this detector for the first time, remove the sensor activation strip, if it was not removed during the pre-delivery inspection.

If the alarm persists in re-arming and giving further alarms, ventilate the Van by opening the doors and windows. If the leak cannot be readily found after the ventilation process is concluded, then take the Van to a qualified service technician.

The CO detector is a powerful combined alarm that detects Carbon Monoxide (CO)). This detector uses the latest microprocessor technology combined with two electronic self-cleaning sensors that operate independently of each other. The combined unit can detect both CO and explosive gases simultaneously.

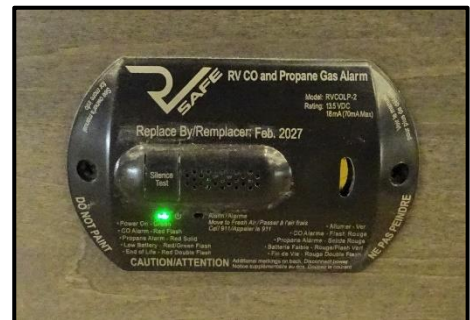


Figure 0-2: Carbon Monoxide Gas Detector

Carbon monoxide (CO) is a colorless, odorless, tasteless gas, which, when breathed, bonds to the hemoglobin in the red blood cells and, thus, drastically reduces or blocks the transfer of oxygen from the lungs to the rest of the body.

In sufficient concentrations, CO kills by asphyxiation. In lesser amounts, CO makes the victim groggy, lethargic, and unable to think clearly or quickly.

CO is one of the products of combustion for many materials including petroleum-based products (e.g., gasoline, diesel fuel, propane, butane, etc.). Since many of the appliances and the engines associated with the Van produce CO in their normal operations, it is necessary to ensure that CO levels do not rise to dangerous levels within the Van. In sufficiently high concentrations, CO can kill in minutes.

The people most susceptible to CO poisoning are unborn babies, small children, pregnant women, senior citizens, and people with cardiovascular or respiratory problems.

Consequently, it is prudent to check the CO monitor regularly for normal operation and to remain aware of the symptoms of CO poisoning, which include dizziness, nausea, vomiting, muscular twitching, throbbing in the temples, incoherent thinking and speech, weakness, sleepiness, and intense headaches.

If any of these symptoms are experienced in the Van, IMMEDIATELY evacuate the Van and seek medical help. Shut down the Van and do not attempt to operate it again until the sources of the CO are located and fixed.



DANGER

Carbon monoxide gas—derived from products of combustion of diesel fuel, and other petroleum-based products—is a deadly gas that can kill Van occupants, if allowed to accumulate in sufficient concentration. Ensure that all engine operations are not restricted—tailpipes and exhaust ports should not be blocked or restricted in any way. Additionally, any accumulation of exhaust gases outside or underneath the vehicle must be avoided as it might enter the Van through windows or vents—be careful of how and where the Van is parked to avoid such conditions. Regularly monitor outside conditions to ensure that all exhaust gases can readily be dissipated and not enter the Van inadvertently.



DANGER

Never sleep in a Van when the engine is running—engine exhaust fumes could enter the Van and cause disability or death. Regularly check the exhaust system to note any leakage sites and, if found, discontinue use of the Van until they are repaired by a competent, qualified service technician. Do not attempt repairs on the exhaust system yourself and do not modify (temporarily or permanently) the exhaust system at all.

FIRE SAFETY

As with any enclosed system containing the three required conditions for fire (i.e., combustible materials, oxygen, and ignition sources), there will exist the possibility of fire inside the Van. Tiffin Motor Homes has taken every precaution and design practice to minimize or negate this possibility, but the final determination rests with the owner and user of the Van. Hence, the owners, users, and their guests must be aware of basic fire-safety practices and procedures, and those particular features that Tiffin Motor Homes has provided for fire safety.

FIRE EXTINGUISHER

The Van is equipped with a fire extinguisher located in the entrance door stairwell (Figure 0-3). The extinguisher is rated for both Class B (i.e., grease, gasoline, diesel fuel, flammable liquids) and Class C (i.e., electrical) services.

Read and understand the accompanying owner's manual on the extinguisher (found in your Owner's Information Package) and remember the location of the extinguisher. These types of fire extinguishers are pressurized mechanical devices and require that appropriate care be used in their safe storage and use. The owner's manual will provide necessary guidance for the proper storage, handling, and use of the extinguishers.

Prudent preventive maintenance suggests monthly inspection of any fire extinguisher to ensure that it is sufficiently pressurized (i.e., the needle on the gauge is in the "normal" zone) and that the mechanical components are not blocked in any way.

DO NOT test a fire extinguisher by partially discharging the unit—this will cause a loss of pressure and might lodge some fire-retardant materials in the valve mechanism and cause the extinguisher to continue to vent slowly down to zero pressure. If an extinguisher is ever partially used, continue its use until the unit is completely discharged. Then, have the fire extinguisher fully recharged at an appropriate service center (call any fire department for information on having an extinguisher recharged in that particular locality).

DO NOT wait to recharge an empty fire extinguisher; you will never know when it might be needed.

Should a fire occur inside or around the Van, evacuate the Van quickly and calmly—do not panic. In the event of heavy smoke or extensive flames, keep low (crawl if you must), and make your way to the nearest exit (door, emergency window) and leave. If the fire involves a fuel source (e.g., diesel fuel, LP gas), consider the probability of an explosion and move sufficiently far away to minimize personal harm. If possible, immediately place a call to the local fire department (or ask someone nearby to do so) to report the fire. Consider the cause and the consequences of the fire and the risks associated with possibly fighting the fire yourself before trying to extinguish it.

DO NOT expose yourself or others to unnecessary danger.

SMOKE DETECTOR

The Van is equipped with a battery-operated smoke detector (Figure 0-4) located on the ceiling in the living area of the Van.

The smoke detector must be tested on a weekly basis, before each trip, and after any period of storage of the Van.

If a low-battery condition is noted or the alarm "chirps" to indicate a low-battery condition, immediately replace the battery. Tiffin Motor Homes recommends that you keep replacement batteries in the Van for any in-transit replacements so that the smoke-alarm capability is never compromised.



Figure 0-3:
Fire Extinguisher



Figure 0-4: Smoke Detector

DO NOT disable the smoke detector for any transient, false alarm (e.g., cooking smoke, dusty furnace, tobacco smoke). Ventilate the Van with fresh air and the alarm will reset on its own.

ELECTRICAL

- Careless handling of electrical components can be fatal. Never touch or use electrical components or appliances while feet are bare, hands are wet, or standing in water.
- Improper grounding of the vehicle can cause personal injury.
- Do not attach an extension cord to the utility power cord.
- Do not use any electrical device that has had the ground pin removed.
- Avoid overloading electrical circuits. Replace fuses or circuit breakers with those of the same size and amperage rating only. NEVER use a higher rated fuse or breaker.

LOADING

- Store or secure all loose items inside the Van before traveling. Possible overlooked items such as canned goods or small appliances on the countertop, or freestanding furniture can become dangerous projectiles during a sudden stop.
- Be aware of GVWR, GAWR, and individual load limit on each tire or set of duals.
- Never load the Van in excess of the gross vehicle weight rating or the gross axle weight rating for either axle.

MAINTENANCE

- Do not remove the radiator cap while the engine and radiator are still hot. Always check the coolant level visually using the see-through coolant reservoir.
- NEVER get beneath a vehicle that is held up by a jack only.
- Do not mix different construction types of tires on the vehicle. Replace tires with the exact size, type, and load range.

TOWING HITCH

The Van is fully capable of towing typical motor vehicles.

The GH1 is equipped with a 5,000 pound towing hitch and a associated wiring connector.

The towing hitch features a standard 7 pin wiring connector. If desired, a trailer brake actuator can be added.

The Van is capable of towing light loads, and instructions are in the chassis manufacturer's literature in the Owner's Information Package provided with the Van.

The total weight of the Van and any vehicle towed by that Van must not exceed the Gross Combined Weight Rating (GCWR).

NOTICE. If drop hitch or receiver extension is added to coach, it reduces ton capacity by half.

NOTICE

When the Van is being weighed, account for passengers and their locations in the Van.

The tongue weight must not exceed 10 percent of the towing capacity. Information related to the Van weight and GCWR can be found on a sticker inside the Van closet. Any vehicles to be towed by the Van must have adequate active braking.

Tiffin Motor Homes does not recommend using any type of hydraulic towing lift that attaches to the rear of the Van designed to carry motorcycles, scooters, golf carts, etc.

AIR CONDITIONING SYSTEM/HEAT PUMP

The air conditioner/Heat Pump is 15 K BTU with soft start and WiFi Capability.

THERMOSTAT CONTROLS

LCD TOUCH SCREEN CONTROLLER MANAGES THE ENTIRE SYSTEM

The compact Aqua-Hot 125 can be installed inside/under cabinetry or furniture. This highly efficient system operates as the van's heating system and continuous hot water supply. As many as 3 heat exchangers can be placed throughout the van to bring heat where needed. The burner is installed on the underside of the van chassis for noise reduction and exhaust..



TIFFIN

GH1

APPLIANCES

Chapter

3

REFRIGERATOR

Your coach is equipped with a 3.1 stainless steel refrigerator with freezer.

COOKTOP

The TIFFIN also contains a single-burner induction cooktop



Figure 4-3: induction cooktop

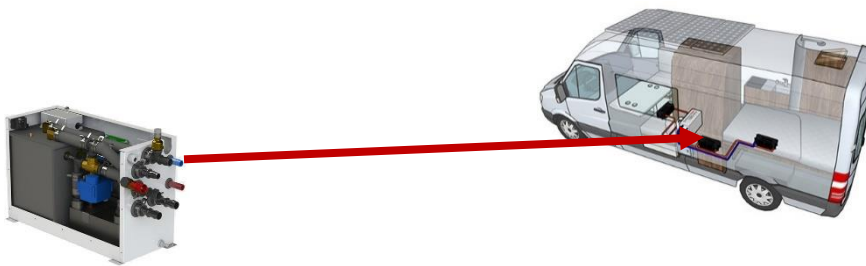


FIGURE 4-1:

WATER HEATER

The Timberline system that heats the interior of the TIFFIN also heats the coach's water. This is controlled with the Timberline touch screen control shown in Figure 3-1.

Aqua Hot Model 125D.

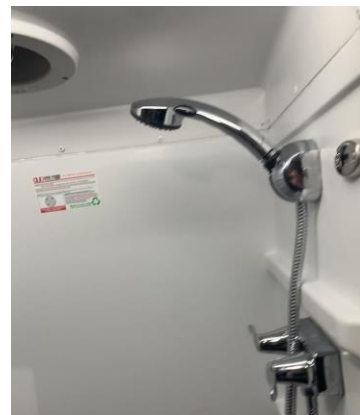
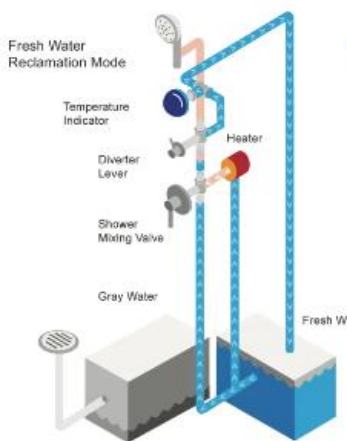


1. When using the system from a cold start, the monitor needs to be set to "Interior Heat Priority" and the water lines cannot be dry,
2. The system needs to be ran at this state for 8-10 minutes.
3. Once the system is warmed up, the user can swap the monitor to "Hot Water priority".
4. The system will not operate correctly when the fuel tank has $\frac{1}{4}$ or less fuel in it.

SHOWER OPERATION

The SHOWERMIŞER simply connects to your shower outlet. By pushing a small button, you are able to redirect the cold water back into the freshwater tank, before it comes out of the showerhead! This water normally goes down the drain, your grey water tank.

even
would
filling up



BLACK WATER DISPOSAL

The canister should be dumped in a certified disposal area.



SEWER CONNECTION AND CAMPING

While using the Tiffin GH1, it is important to keep the grey-water holding-tank gate valve closed at all times, except when dumping. This allows an ample amount of liquid to remain in the tank to provide a smooth flow through the gate and drain valves when dumping. Sufficient liquid in the tank causes a swirling action that should take any accumulated solid wastes with it.

Due to Tiffin Motorhomes' commitment to continuous research and development, some units might also contain major appliances manufactured by other companies other than what is shown in the figures of this section. Refer to the information in your Owner's Information Package for more information on your coach brands.

TIFFIN

GH1

CABINETS & FURNITURE

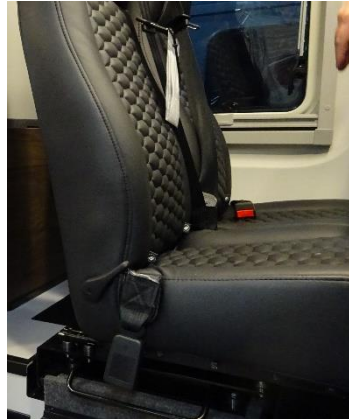
Chapter

4

CABINETS

The TIFFIN GH1 is equipped with several cabinets for storage needs. The front passenger side has a galley cabinet for two storage areas: a drawer on the inside at the top and a compartment on the outside at the bottom. Two overhead cabinets are also located in the rear bedroom area, one on each side of the coach.

OPTIONAL ADVENTURE BAR



TIFFIN GH1

CHASSIS FEATURES

Chapter

5

PERFORMANCE

The TIFFIN GH1 is built on the Mercedes Sprinter van. It is equipped with a 2.0L 4-cylinder turbodiesel engine capable of 188 HP and 325 lb.-ft. of torque.

The van also uses a 7G-Tronic automatic with AWD.



TIRES AND WHEELS

The TIFFIN'S sits on 4 LT245/70 R17 BF Goodrich all-terrain T/A KO2 tires with Vision Off-Road wheels.



TIFFIN

GH1

ELECTRICAL FEATURES

Chapter

6

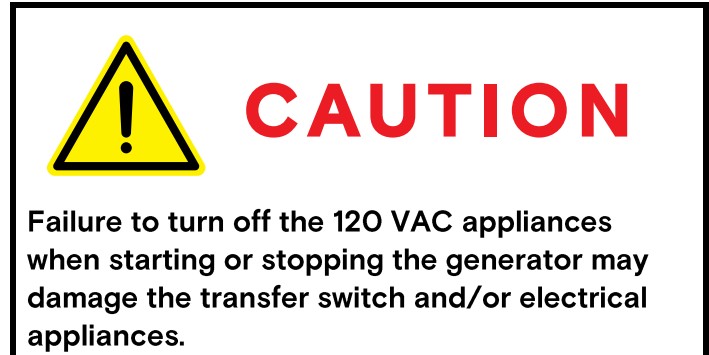
GENERAL INFORMATION

There are two electrical systems in your TIFFIN GH1 Van. These are the 12-volt DC (VDC) system and the 120-volt AC (VAC) system. Most standard appliances require the 120-VAC system, while the majority of the lighting systems used in the TIFFIN GH1 use the 12-VDC electrical system.

The house battery bank is charged by the 30A shore power plug running through the inverter/ charger. The auxiliary alternator also charges the batteries when the engine is running.

The electrical power for the 120 VAC is supplied by the 30 AMP shore power cord when the TIFFIN GH1 is connected to an external power source. The inverter can also supply 120 VAC electrical power.

To connect the TIFFIN GH1 to an external source of 120 VAC electrical power, it is first recommended that main 30-amp circuit breaker is in the “off” position. This is done to prevent any power surge upon connecting the Van to the external power source. The standard, flexible, power cord supplied with the TIFFIN GH1 is designed to handle 30 amperes. Make sure that the pins in the male end of the plug are oriented correctly so they match the power cable, and they are in good condition (i.e., aren’t bent or damaged).



Note: Do not attempt to use any electrical adapters to convert the provided 30amp power cord, as this will damage electrical components inside the Van.

If there is a circuit breaker switch at the “plug” end of the power cord, that breaker should be turned “off” before making the connection. Insert the plug into the mating outlet and then turn the circuit breaker “on.” Close and lock the electrical compartment door to protect the contents and to keep them clean and dry. Close the cover on the power box, if so equipped, to avoid an unintentional disconnection and to keep the contents clean and dry. Then switch the main breaker to the “on” position.

SHORE POWER

The TIFFIN GH1 utilizes the SmartPlug for shore power located at the rear of the van on the driver’s side. The 30 amp shore power cord can be used to charge the house battery or power the Van directly

Note: Do not attempt to use any electrical adapters to convert the provided 30amp power cord, as this will damage electrical components inside the Van.



BATTERIES

How to Properly Store Batteries

Up to a Decade of Use - Enjoy superb return on your investment with this heavy duty LiFePO4 battery! This 270Ah 12V GC3 battery lasts 3,000 - 5,000 deep discharge cycles, providing up to 10-15 years of power.

Built for Rugged Adventures - Our fast-charging lithium-ion batteries are perfect for RVs, campers, vans, boats, and trolling motors. Battle Born Batteries are also made to power industrial, off-grid, and residential backup applications!

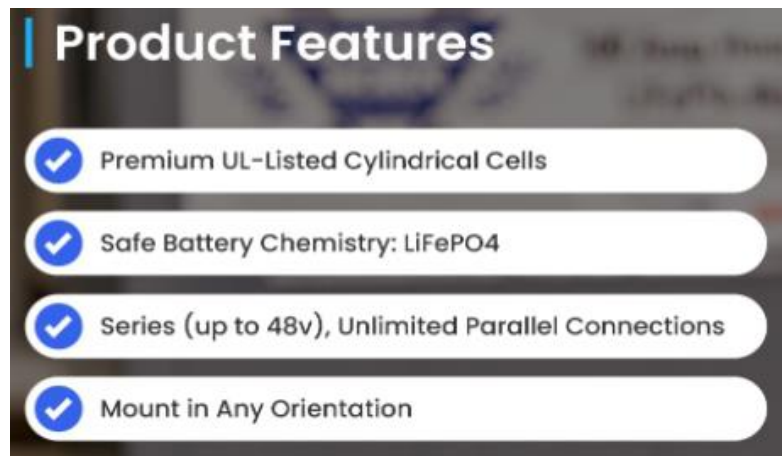
Designed for Versatility - This eco-conscious and lightweight 270Ah 12V GC3 battery can be wired in series or parallel. And because it is designed with safety in mind and doesn't contain any acid, it can be safely mounted in any orientation.

Internal Protection - With a built-in Battery Management System (BMS) rated for 300 amps continuous, Battle Born lithium batteries are well-protected against extreme hot and cold temperatures, high and low voltages, short circuits, and other common causes of battery failure.

Quality You Can Trust – Our cutting-edge facilities are headquartered in Reno, Nevada, the lithium capital of North America. With on-site assembly Battle Born Batteries' 12V lithium batteries are trusted by customers, celebrities, and top YouTubers, and come with a 10-year warranty and lifetime technical support.

How to Maintain the Batteries

Dragonfly Energy Batteries require very little maintenance. If your batteries are in series and not being charged by a multi-bank charger it is recommended that you fully charge the batteries individually once a month if the system is used frequently. This will internally balance your batteries to ensure that they will reach their expected life span and allow you to get the full power out of them with each use. If your batteries are in parallel this is not necessary, just make sure the batteries are charged to 14.2V – 14.6V frequently for internal balance. Our BMS has a built-in passive balancing system that will take care of this for you.



INVERTER

True sine wave 120 VAC inverter with a built-in transfer switch. Features include extended surge rating, ignition control, configure, and monitor system performance via Bluetooth app using the optional Freedom X Bluetooth remote panel.



120 – VOLT AC (VAC) RECEPTACLES

Your TIFFIN GH1 Van is equipped with several 120 VAC receptacles (Figure 8-1) located throughout the interior of

the Van. These 120 VAC receptacles are of the “three-prong” variety; the third prong being a grounding pin which provides adequate grounding to protect one from any electrical shock.

For these receptacles to work properly, do not use an adapter, cheater, or extension cord which defeats the function of the grounding pin. For the same reason, never remove or bend away the or pin from any three-prong AC plug so that it would fit a receptacle (i.e., an ungrounded AC receptacle).



the Van. variety; the third grounding to protect adapter, grounding pin. ground prong two-prong AC

Never operate the TIFFIN GH1 if there is an electrical short present, as an electrical short may deliver an electrical shock to anyone coming in contact with the exterior of the unit.

If you should feel even the slightest of electrical shock, immediately disconnect the unit from the 120 VAC power source and contact a technician for assistance.

Do not reconnect the 120 VAC power until after that electrical fault is fixed—the grounding circuit must be continuous from the frame to the distribution panel, to the power cord, and to the earth ground so that electrical-shock protection is realized.

GROUND FAULT CIRCUIT INTERRUPT (GFCI) RECEPTACLES

The TIFFIN GH1 has two 120 VAC GFCI receptacles (Figure 8-2), which provide greater protection against inadvertent electrical shocks. One is located on the PS bench rear and the other is located on the PS running board rear.

These specialized GFCI receptacles provide both overload and short-circuit protection for the user.

All GFCI-protected receptacles are marked as such, but only one of them may have two pushbuttons on the receptacle (as shown in the picture). The upper pushbutton is a “test” button which can be used to assure that the GFCI function is working—all one need do to test this function is to push that upper button: There will be a momentary “click” and the circuit will be disconnected (i.e., no power is

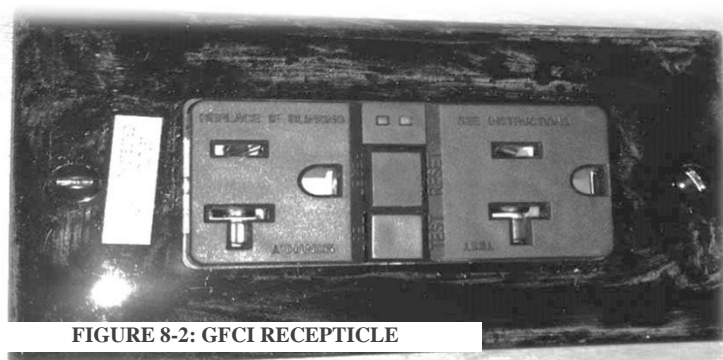


FIGURE 8-2: GFCI RECEPTACLE

available at the GFCI-protected receptacles). To reset this GFCI breaker, push the lower button (the “reset”)

These receptacles protect the user from ground faults between an electrically “hot” wire and ground. The GFCI will not reduce the shock hazard if the short is between a neutral and “hot” wire, or two “hot load” wires. The GFCI should be tested at least once a month. The 120 VAC electrical system must be “on” for the GFCI to be tested. To test the GFCI the reset button needs to be pushed in fully before starting the test. Push the test button; this will cause the reset button to pop out which means that the protected circuits have been disconnected. Push the reset button back in until a “click” is heard—this will re-activate the protected circuit. If the GFCI is working properly, the reset button will remain in the “in” position.

CIRCUIT BREAKERS

The circuit breakers and fuses are installed to protect the electrical system of the TIFFIN GH1 from any overloads. Do not attempt to change the electrical circuitry or to add appliances yourself.

Please consult an authorized TIFFIN GH1 Motor Homes Dealership or TIFFIN GH1, incorporated to determine whether any changes you desire are appropriate and acceptable. Tiffin’ qualified staff of electricians can readily determine whether any changes sought (e.g. solar, radio, amateur radio, satellite television receiver, personal computer system, and the like) are possible or not and can advise you on how best to realize these enhancements.

The circuit breakers are located in the main 120 VAC distribution load center inside the passenger side bench.

When the circuit breakers are shut down or electrically tripped, they must be manually reset. As needed, manually reset the circuit breaker or breakers as shown in the accompanying figure.

The panel has a main 30amp breaker which turns off all incoming power to the panel’s branch breakers. All branch breakers are labeled as to their function.



**AC POWER
DISTRIBUTION
PANEL**

OVERHEAD LIGHT BAR.



SOLAR CONTROLLER.

Go Power 30-Amp Single-Bank Bluetooth-Enabled Solar Controller in Blue. Located the master control center.



The control panels are on the top of the roof.

Go Power! | **DOMETIC** **30 AMP SINGLE BANK SOLAR CONTROLLER**

INCREASES BATTERY LIFE BY PREVENTING OVERCHARGING

PROVIDES SUPERIOR BATTERY PROTECTION

A Solar Controller is an essential component of your photovoltaic (PV) system. The Controller maintains the life of the battery by protecting it from overcharging. When your battery has reached a 100% state of charge, the Controller prevents overcharging by limiting the current flowing into the batteries from your solar array.

The GP-SB-PWM-30BT is a 12 volt flush-mounted, single-bank, photo-voltaic (PV) charge controller rated for a continuous solar current input of 30 amps.



GP-SB-PWM-30BT

FEATURES:

- Bluetooth® ready with the Go Power! Connect app
- Regulates current flow from your solar modules to your batteries.
- Temperature compensated pulse width modulation (PWM) charging
- 4 battery charging profiles: Sealed/Gel, AGM, Flooded and LiFePO4 (lithium)
- 4 stage charging: Bulk, Absorption, Float and Equalize
- Back lit LCD screen displays charging current, battery voltage and battery state of charge
- Heavy-duty terminals for low resistance connections
- Suitable for 12V solar systems up to 30 amps
- 5-year warranty



SPECIFICATIONS

Nominal System Voltage	12V
Max Solar Array Current	30A
Battery Voltage Range	6V – 16V
Max. Solar panel input voltage	28V
Max Solar Power	600W
Max. Battery Charge Current	37.5A
Display Consumption	≤15mA
Temp. Compensation	-25mV/K
Operating Temperature	-40 to 60°C / -40 to 140°F
Humidity	99% N.C.
Dimensions (H x W x D):	4.02 x 5.2 x 1.26 in; 102 x 132 x 32 mm
Weight	260g / 9.2oz
Maximum Wire Gauge:	#8 AWG/10 mm ²
Warranty	5 years
Protection	Battery/Solar Reverse Polarity, Battery/Solar Short Circuit, Battery/Solar Reverse Current, Battery/Solar Over voltage up to 50%, Over temperature, Over Current

Charge voltages shown are at 77°F / 25°C. The total rated Maximum Power Current (Imp) of the PV input should not exceed 30 amps.



Bluetooth | Google Play | App Store | Download our free Go Power! Connect app to view essential battery stats remotely.

BATTERY CHARGING PROFILE	SEALED/ GEL	AGM	FLOODED	LIFEPO4	CUSTOM
Bulk Charge Voltage Set Point	14.1V	14.4V	14.4V	14.4V	
Absorption Charge Voltage (30 min / day)	14.1V	14.4V	8.16V	14.4V	
Float Charge Voltage	13.7V	14.1V	8.16V	14.0V	
Equalize Charge Voltage (2h / 28 days or after V < 12.1V)	Disabled	Disabled	14.9V	Disabled	8.16V

Specifications may be subject to change. Product may not be exactly as shown. Specifications subject to local environmental conditions.

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gopowersolar.com



30 AMP MPPT SOLAR CONTROLLER with RVC CONNECTIVITY

➤ MAXIMUM POWER OUTPUT & CONNECTIVITY FOR MID-SIZED SOLAR ARRAYS



Top View



Side View

CONNECTIVITY & BATTERY PROTECTION IN A SINGLE UNIT **RV-C**

The GP-MPPT-30-RVC optimizes solar charging capacity in mobile systems in all sun and tilt conditions while allowing the use of simpler series wiring configurations up to 100V (Voc @ STC).

FEATURES:

- Easily integrated with onboard communications systems
- Stackable. Pair up to 5 on a single system for a max solar array of 3000 watts, or 150 amps
- Supports multiple battery chemistries
- Heavy-duty terminals for low resistance connections
- Maximizes energy yield in multiple array tilt conditions
- Reacts faster to changes in solar conditions
- Optional remote
- Up to 98% power conversion efficiency
- 5-year warranty

ITEM	PARAMETERS				
System Voltage	12/24V				
No-load Loss	8ma				
Max PV Input Voltage	<100V				
Rated Current Charge	30A				
Max PV Input Power	600W/12V;1200W/24V				
Battery Type Selection	GEL	AGM	FLOODED	LiFePO4	Custom
Equalize Charge Voltage	-	-	14.9V/29.8V	-	8.32V
Bulk-Absorption Voltage	14.1V/28.2V		14.4V/28.8V		8.32V
Float Charge Voltage		13.7V/27.4V		14.0V/28.0V	8.32V
Recharge Voltage		13.2V/26.4V			8.32V
Over-Discharge Return Voltage		12.8V/25.2V		12.2V/24.4V	8.32V
Under-Voltage Warning Level		12.0V/24.0V			8.32V
Over-Discharge Voltage		11.0V/22.0V			8.32V
Operation Temperature	-35°C ~ +45°C				
Dimensions	3.37 x 7.77 x 5.71 in (85.6 x 197.5 x 145 mm)				
Weight	3.14lb (1.42kg)				
IP Protection	IP30				
Communication	RS485, Canbus				
Operation Altitude	< 3000M				
Warranty	5-years				

Specifications may be subject to change. Product may not be exactly as shown. Specifications subject to local environmental conditions.

© 2024 Go Power! Doc: SPEC_GP-RVC30-MPPT_DOMGP_update with BMG

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SPECIFICATIONS	
Nominal System Voltage	12V
Nominal Charge Current	30A
Battery Voltage Range	6V – 16Vdc
Max Battery Charge Current	37.5A
Max Solar Power	600W
Display Consumption	15mA
Temp. Compensation	-25mV/°C
Operating Temperature	-40 to 60°C / -40 to 140°F
Humidity	95% N.C.
Dimensions (H x W x D)	4.02 x 5.2 x 1.26 in; 102 x 132 x 32 mm
Weight	280 g / 9.2 oz
Maximum Wire Gauge	#8 AWG/10 mm ²
Warranty	5 years
Protection	Battery/Solar Reverse Polarity, Battery/Solar Short Circuit, Battery/Solar Reverse Current, Battery/Solar Over voltage up to 50V, Over temperature, Over Current

WARNINGS:

	Disconnect all power sources	Electricity can be very dangerous. Installation should be performed only by licensed electrician or qualified personnel.
	Battery and wiring safety	Observe all safety precautions of the battery manufacturer when handling or working around batteries. When charging, batteries produce hydrogen gas, which is highly explosive.
	Wiring connections	Ensure all connections are tight and secure. Loose connections may generate sparks and heat. Be sure to check connections one week after installation to ensure they are all tight.
	Work safety	Wear protective eyewear and appropriate clothing during installation. Use extreme caution when working with electricity and when handling and working around batteries.
	Observe correct polarity	Reverse polarity of the battery terminals and strap will cause the controller to show warning LED. The controller will not function unless battery terminals are connected to a battery with correct polarity. Failure to correct these faults could damage the controller.
	Do not exceed the GP-MPPT-PRO-4200 max voltage ratings	The voltage rating of the solar system is the sum of the Open Circuit Voltage (VOC) of the solar PV panels in series. The resulting system Voc, taking into account temperature effects is not to exceed 150V. If your solar system exceeds these ratings, contact your dealer for a suitable controller alternative. PV voltage increases in cold weather. Refer to section 0rca Reference source not found.



GP-SB-PWM-30BT SINGLE BANK BLUETOOTH SOLAR CONTROLLER

Quick Start Guide



Scan for full manual



NO.	DESCRIPTION	NO.	DESCRIPTION
1	Scroll/Menu Selectors	4	Value Indicators
2	Icons Indicator	5	Value Units
3	Parameters Identifiers	6	Battery Type Indicator

Find tech tips, manuals and support at gopowersolar.com

INSTALLATION

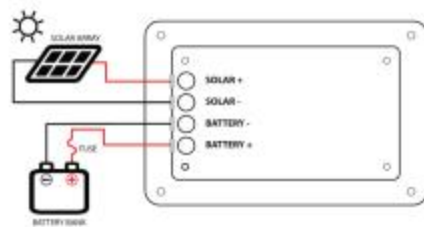
TOOLS

- Flathead Screwdriver (for wire terminals)
- Philips Screwdriver (for mounting screws)

INSTALLATION STEPS:

Install your solar array, and cover with opaque material until all wiring is complete. Wiring should not exceed 25ft from the solar panels to the battery.

Wire the GP-SB-PWM-30BT according to the wiring diagram below. Be sure to torque all screws based on the wire gauge after installation, as well as after 30-days.



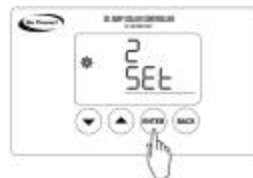
The GP-SB-PWM-30BT is designed to be mounted flush against a wall, out of the way but easily visible.

The GP-SB-PWM-30BT should be:

- Mounted as close to the battery bank as possible
- Mounted on a vertical surface to optimize cooling of the unit
- Indoors, protected from the weather

ACCESSING SETTINGS

The GP-SB-PWM-30BT includes an LCD of FSTN type with 4 mechanical buttons that act as navigation keys to control the display. The GP-SB-PWM-30BT settings can be accessed by entering menu number 2 as shown below.



VIEWING CONTROLLER DISPLAY

Three menus are implemented in the display: status, settings, and history. At power up, the controller turns on within the status menu. The different menus can then be accessed by pressing the Enter key as shown below.



BLUETOOTH FEATURE

A Bluetooth® Low Energy module is integrated in the 30A model only.

For details on the data that can be accessed/managed via Bluetooth®, please refer to the GP-SB-PWM-1Q/30BT User Manual.

TIFFIN GH1

EXTERIOR FEATURES

Chapter

7

TOWING HITCH

Towing hitch with a 5000 lb. capacity on the rear of the van

MIRRORS

The TIFFIN GH1 uses the standard rear view, driver side, and passenger side mirrors

ROOF RACK

The TIFFIN GH1 had a roof rack for luggage.

LIGHT BAR

FRONT LED LIGHT BAR ON ROOF RACK.

LADDER

There is a side mounted ladder on the TIFFIN GH1 to access the roof.

RUNNING BOARDS

Running board to assist entry into the van. Lighted with 12V LED.



TIFFIN GH1

INTERIOR FEATURES

Chapter

8

FLOORING

Vinyl flooring is standard throughout your TIFFIN GH1.

For routine cleaning, sweeping or vacuuming the floor would be sufficient. If more thorough cleaning warranted, the flooring can be cleaned with a damp mop and water.

For stubborn stains, a mixture of soap free household cleaner (e.g., vinegar, ammonia or comparable products) mixed with water can be used.

You should not unduly saturate the floor surfaces with water, as this could damage the flooring substrate.

Do not use any abrasives (cleaners, scouring pads the like) as they can scratch or mark up the vinyl flooring surfaces and may cause permanent damage to the vinyl flooring.



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CEILING

The ceiling in your TIFFIN GH1 is covered with a padded vinyl headliner which can easily be cleaned with a damp soft cloth and a mild detergent.

Clean around all vent areas to prevent any buildup of dirt, grease, or other accumulations.

WINDOW TREATMENTS

The TIFFIN GH1 is equipped with blackout window shades. These shades keep out light and heat from the sun during the day and provides complete privacy at night.

TIFFIN GH1

PLUMBING & BATH FEATURES

Chapter

9

KITCHEN SINK

For the sink, cleaning care consists of washing only with mild detergents and water and using a soft cloth for subsequent drying and polishing.

SHOWER



The TIFFIN GH1 features a wet bath. This includes a shower that also houses the toilet. There is also a removable, magnetic shower curtain and a removable shelf in the shower.

The shower utilizes a shower miser, which allows the fresh water to circulate until it reaches the desired temperature before coming out of the shower nozzle. Once the water reaches the desired temperature, the blue line will turn white.



WATER PUMP

The water pump is used to pressurize the fresh water system when the unit is not connected to city water.

To start the pump, follow these instructions:

Fill or partially fill the freshwater tank supply

Open the kitchen and bathroom faucets.

Turn the water pump switch to the "ON" position and allow the water to fill the water line

Close each faucet after it delivers a steady stream of water (close the cold-water faucet first). Leave the hot water faucets "ON" until they deliver a steady stream of water.

The water pump should stop running once all the faucets are closed.

The water pump is now ready for automatic operation. The pump will run when a faucet is open and stop when the faucet is closed.

Never allow the pump to run for long periods of time without water being present in the supply tank. Doing so may cause physical damage to the components or it may blow fuses

All the water should be drained from the fresh water system when the unit is not in use for an extended period of time.

If water does not flow when a faucet is turned "ON" while using the demand system, use the following troubleshooting chart:

SITUATION	Solution
Pump running – no water	1. Fill tank
Pump doesn't run	2. Clear the water line to the pump
	3. Check the pump switch
	4. Check the 12V fuses
	5. Check the electrical connections
	6. Check the Van battery

CITY WATER CONNECTIONS

When connecting your unit to city water, use a water hose manufactured and labeled for potable water service. This will assure that the hose selected for use will not alter the taste of the water.

When connecting your unit to city water, use the water hose and connect to the city water port. While doing so, make sure the blue handle is turned to CITY.



FILLING FRESH WATER TANK

The fresh water tank has a capacity of 26 gallons.

To fill the freshwater tank, make sure the blue handle corresponds to the POWERFILL TANK

SANITIZING

SANITIZING HOT AND COLD FIXTURES AND FRESH WATER TANK

To assure complete disinfecting of the freshwater system, it is recommended that the following procedures be performed on a new system, on one that has not been used for a length of time, or one that may have become contaminated. This procedure is also recommended before long periods of storage, such as during the winter months:

- Drain the freshwater tank by opening the drain valve. All of the faucets should be in the closed or “off” position.

- Prepare a chlorine solution using one gallon of water and one-half cup of chlorine bleach (5% sodium-hypochlorite solution). Prepare enough of the chlorine solution to administer one gallon of solution for every 15 gallons of tank capacity. Concentrations greater than 50 ppm may damage the water lines and/or the tank.
- Once the freshwater tank is empty, close the drain valves in the water tank.
- Pour the solution in the gravity fill which is located on the rear of this coach.
- Turn “on” the water pump. On the sewer board turn the blue handle valve to “normal” position and turn the red handle valve to “normal” position.
- Open each faucet, in turning “on” both the hot and cold faucets and flushing the toilet until all of the air has been purged from the pipes and the water runs freely. The entire system will then be filled with the sanitizing solution.
- Allow the 50 ppm disinfecting solution to stand in the system at least four hours.

Drain the system and flush it with freshwater. The water system needs to be flushed with water repeatedly, if necessary, until there is no chlorine taste or smell left in the system. To remove any excessive chlorine taste or odor that might remain, prepare a solution of one quart of vinegar to five gallons of water. “Rock” the tank containing the solution; by moving the vehicle forward and backward several times to clean the tank; then drain that tank and refill with clean water.

SANITIZING HOT AND COLD FIXTURES ONLY (NOT FRESH WATER TANK)

- o All faucets should be in the closed or “off” position.
- o Prepare a chlorine solution using one gallon of water and one-half cup of chlorine bleach (5% sodium-hypochlorite solution). Concentrations greater than 50 ppm may damage the water lines.
- o Connect one end of the vinyl hose to the inlet valve on the sewer board; place the other end of the hose into the solution that has been prepared.
- o Turn “on” the water pump. On the sewer board turn the blue handle valve sanitize/winterize and turn the red handle valve to bypass.
- o Open each faucet, in turning “on” both the hot and cold faucets and flushing the toilet until all of the air has been purged from the pipes and the water runs freely. The entire water lines will then be filled with the sanitizing solution.
- o When the sanitizing process is completed, turn the water pump “off”.
- o Allow the 50 ppm disinfecting solution to stand in the system at least four hours.
- o Drain the system and flush it with freshwater. The water lines will need to be flushed with water repeatedly, if necessary, until there is no chlorine taste or smell left in the system. To remove any excessive chlorine taste or odor that might remain, prepare a solution on one quart of vinegar to five gallons of water. Repeat steps four, five and six to run the solution through the water lines. Drain the system and flush with freshwater.

FRESH WATER LINES

Check all of the plumbing connections for leaks at least on an annual basis.

If the water pump runs when all faucets are turned “off,” check for a possible leak. Be sure that the drain valves are closed. Connections at the kitchen and bathroom faucets normally seal by hand-tightening them and then making an additional half-turn with a wrench.

If a fitting leak persists, disconnect it completely and visually inspect it for mineral deposits or foreign material stuck on the sealing surfaces. Clean the surfaces thoroughly and reinstall the fitting.

GENERAL INFORMATION

The waste drainage system was designed to provide adequate and safe storage and/or disposal of waste materials. All of the materials used in the fabrication of this system are tested by a nationally recognized testing laboratory. The drainage system uses plastic piping and fittings connected to the sinks, toilet, and holding tanks. This plumbing permits the drainage of these fixtures to an outside termination. The vehicle should be reasonably level for best operation of both of the wastewater systems.

TOILET

The toilet features a push-button flush.

The toilet (Figure 11-2) operates with water from either the fresh water tank with the water pump “on” or the city water supply. Before using the toilet, add water to the bottom of the tank. Refer to the “BLACK WATER TANK” instructions.

The toilet flushes waste directly into the black-water holding tank

The toilet should be cleaned regularly for maximum sanitation and operational efficiency. Clean the toilet bowl with a mild bathroom cleaner.

BLACK WATER HOLDING TANK



WASTEWATER DISPOSAL

To disposal of wastewater from the black tank is accomplished by removing the black water tank from its holding position in the coach, as shown, and disposing of it in a certified black water reservoir.



SEWER CONNECTION AND CAMPING

While using the Van, it is important to keep the black/grey-water holding-tank gate valve closed at all times, except when dumping. This allows an ample amount of liquid to remain in the tank to provide a smooth flow through the gate and drain valves when dumping. Sufficient liquid in the tank causes a swirling action that should take any accumulated solid wastes with it.

TIFFIN GH1

AWNINGS, VENTS, AND DOORS

Chapter

10

WINDOWS

The TIFFIN GH1 has a total of 7 windows: One in each cab door, one on each side of the bedroom area, and one in each rear door. The two windows in the bedroom contain a smaller opening window within the large window. There may be a reflective coating on the windows to reflect back a portion of the sunlight to reduce the heating of the Van interior and to reduce the effects of the sun's "bleaching" of interior fabrics (curtains, upholstery).

AWNING

The Girard Systems power awning (Figure 12-1) is standard on the TIFFIN GH1.

This awning is extremely durable and can be operated during light rain and wind conditions. However, when periods of heavy rain or wind is expected, or you leave the awning unattended, the awning should be closed.

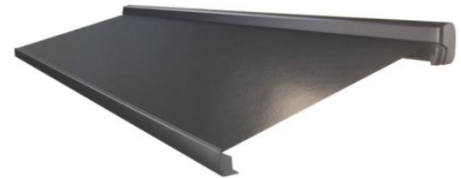


FIGURE 12-1: POWER AWNING

Please note that damage caused by wind and rain is not covered by warranty.

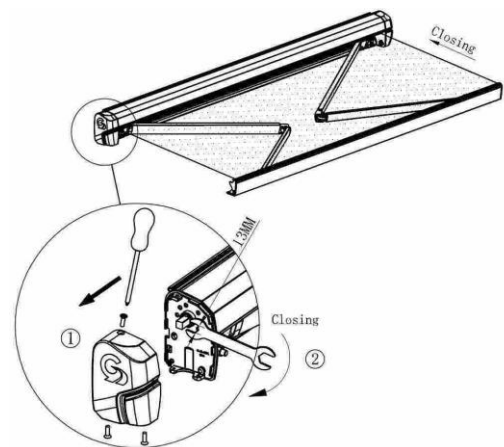
TO OPERATE THE AWNING:

- To OPEN the awning: Press and release the "OUT" switch. The awning will open completely. To interrupt the awning motion, press and release the "STOP" switch. The awning will stop.
- To CLOSE the awning: Press and release the "IN" switch. The awning will close completely. To interrupt the awning retracting, press and release the "STOP" switch. The awning will stop.
- To turn ON the LED light: Press the "ON" switch
- To turn OFF the LED light: Press the "OFF" switch

For more information about the awning, please refer to the awning owner's manual.

RETRACTING THE AWNING IN THE INSTANCE OF POWER FAILURE

- The Girard GG750 has a manual override to close the awning in case of power failures.
- Remove the endcap opposite the motor, by removing the 3 Philips head screws.
- Using a 13mm wrench, turn the square manual override shaft in order to close the awning, see Figure below. NOTE: The manual override is one-way, it can only be used to close the awning.
- Replace endcap using the 3 Philips head screws.
- Figure below is showing a right hand motor version of the GG750. If your coach is equipped with a left hand version, the manual override will be on the opposite side.
- Once power is restored, the awning will resume normal operation.



VENTS

The roof of the TIFFIN GH1 houses two 12VDC exhaust vent fan (Figure 14-3). A three-speed switch controls the fan speed. The vent fan should only be left in the “on” mode when the Van is parked and in use. The fan will not operate until the vent is open.



DRIVING YOUR VAN

Chapter

11

AM/FM STEREO SYSTEM

An AM/FM/CD stereo system is included in the Van. This system is powered by the 12-volt DC system of the Van and operates like any conventional car-stereo system. The coach is also SIRIUS XM compatible with a subscription.

DASHBOARD HEATING/COOLING CONTROLS

The dash air conditioner/heater is not designed to heat and cool the entire interior of the Van. It is intended only to provide heating and cooling for the cab area. A small amount of air will blow out of all the defrost and dash vents regardless of the mode settings.



WINSHIELD WIPER CONTROL

The controls to operate the windshield wipers are located level on the left side of the



steering column. The wipers are not “automatic.” They do not come on simply by water touching the windshield. They must be manually turned on and off using the controls shown above. Please refer to the Mercedes Benz owner’s manual for additional information.

Application of water to the windshield is accomplished by depressing the button on the end of the controls.

TIFFIN

GH1

MAINTENANCE WASHING AND DRYING

Chapter

12

WASHING

When washing your TIFFIN GH1 by hand, use a mild cleaning agent, such as car shampoo.

Wash the vehicle with lukewarm water and a soft car sponge. When doing so, do not expose the vehicle to direct sunlight.

Carefully spray the vehicle with water and dry off with a leather cloth. Be careful not to point the water jet directly towards the air inlet grilles. The blower should be switched off while doing so.

Do not let the cleaning agent dry on the paint-work.

At the onset of winter, remove all traces of road salt deposits carefully and as soon as possible.

For more information on washing your TIFFIN GH1, refer to the Mercedes-Benz Sprinter manual.

SEALS

The seals around the doors, windows, vents, and external seams should be checked at least semi-annually.

If deterioration is noted during a routine maintenance inspection, reseal the seams or seals with an approved sealant to prevent leaks.

Your TIFFIN GH1 dealer can perform resealing inspections and subsequent work for you. It is recommended that a TIFFIN GH1 authorized service center perform these inspections periodically and perform the necessary resealing as required.

PROPER SEALANTS FOR APPLICATION

The following sealants are recommended for specific applications, as noted in the table. These can be purchased through the TIFFIN GH1 Motor Homes parts and service department by calling 205-487-4710.

Recommended Sealants For Specific Sealing Applications	
SEALANT	APPLICATION
Plas-T-Code	Metal or Fiberglass Roof
Surebond #SB-140	Rubber Laminated to Metal Roof and All Skylights
Carlisle #502 LSW Self Leveling Sealant	Rubber Roof Over Wood Base
Silicone Sealant	Cover Butyl and Other Sealants
Parbond	Seal Across Tops Of Windows on Exterior Surfaces Where Silicone Is Not Used

ROOF CARE & MAINTENANCE

Proper care and maintenance of your Van including your roof is important for sustained trouble-free performance. Normal maintenance is simple and easy and does not require special materials.

The roof of the Van is metal and can be cared for in the conventional manner. Clean the roof at least every three months. The roof should be professionally inspected by a dealer annually.

MOISTURE MAINTENANCE

This section outlines important recommendations to manage moisture in your Van to avoid moisture related damage such as mold. The materials and methods used to construct your Van were selected in part to minimize air leakage and to create a weather tight exterior shell.

However, in order to protect your investment and reduce the risk of moisture related damage and costly repairs, attention and care has to be taken to manage moisture inside of your Van.

NOTE: These are only suggestions intended to minimize moisture related issues with your Van. If any concerns arise, contact Tiffin Motor Homes' Service Department

INTERIOR CARE

Signs of excessive moisture can be obvious, such as water droplets forming on surfaces or wet carpet. Conversely, signs of excess moisture can be subtle, such as condensation forming on metal surfaces.

When symptoms appear, it is important to immediately determine the cause of the excess moisture and take appropriate corrective action to prevent moisture related damage.

CONDENSATION

NOTICE

Use only RV odor-controlling chemicals in the holding tanks. Products containing ammonia and petroleum will damage the ABS plastic holding tanks and seals.

Damage may occur to your vehicle if excessive condensation exists. Accumulation of condensation on surfaces within your Van occurs when warm, moist air contacts a cool surface. It is most evident on the inside of windows, but this problem can be controlled by:

Slightly opening a window or roof vent to allow the moisture to escape from the motor home.

A small dehumidifier is also very effective in removing moisture from the air.

FABRICS

The fabrics used in the Tiffin GH1 for the bedspread contain fire retardant additives that may be damaged by use of improper cleaning products. Cleaning instructions for these items are "DRY CLEAN ONLY".

Water based products are not recommended for cleaning the fabrics in your Van. Most water based household cleaning products are not formulated for use on these fabrics and may cause excessive shrinkage or fading.

For best results, the fabrics in your Van should be cleaned by a professional carpet and upholstery cleaner.

Spills, spots or stains should be treated as soon as possible to avoid permanent damage to the fabrics. If a spill occurs, blot the fluid with a dry towel, do not rub the spill as rubbing may cause the liquid to "set" in the fabric and cause a stain.

While attempting to clean a spot or stain, always start from the outside and work inward to avoid spreading the stain further. Some stains or soils are extremely difficult or impossible to totally remove. These stains should receive immediate professional attention.

Spills, spots, stains or soiled areas are the responsibility of the owner and are not covered by the TIFFIN GH1 Motor Homes Limited Warranty.

WALLS & CEILING

The wall and ceiling coverings should be cleaned periodically to maintain a new appearance. Use a nonabrasive cleaner with a soft cloth on the walls. Do not use solvents of any kind, as those solvents may damage the surfaces being cleaned.

DASHBOARD

To keep the Van dashboard in like-new condition, regularly follow these guidelines:

DO:

Dust and clean the dashboard with a soft, damp cloth or chamois, wiping the surface gently

Use a mild detergent and lukewarm water

After washing and rinsing the dashboard, dry it by blotting with a damp cloth or chamois

DO NOT:

Use harsh chemicals that may damage the dashboard

Use cloths containing grit or abrasive particles or kitchen scouring compounds to clean or dust the dashboard

Subject the dashboard to hard, direct blows

Use boiled water, strong solvents, or other such materials to clean the dashboard, as they will soften the plastic

WOODWORK & FLOORS

The wood cabinetry should be cared for with furniture polish to sustain the natural beauty and luster of the wood. This procedure will also keep the cabinetry looking new, prevent the wood from drying and reduce chances of accidental staining or aging.

Use area rugs and floor mats by the side entrance door to trap dirt.

Use soap and water to clean the flooring, begin by vacuuming the floor to remove loose dust and dirt. Then, damp mop the floor with a standard cleaning solution. The mop should be damp but not dripping.

Feel free to use soap based cleaners, scouring powders, steel wool, abrasive cleaners, wax or polish on the ceramic floor as this floor is impervious to these cleaning agents.

To remove stubborn spots like shoe polish, oil, tar, markers, scuffs and the like; use a household solvent or nail polish remover on those spots then wipe those treated areas with a damp cloth.

To remove chocolate, grease, juice or wine, use warm water and any off the shelf abrasive cleaner. To remove candle wax or chewing gum, carefully scrape off when the material has hardened. For further tips, please see the manufacturer's information sheet in your TIFFIN GH1 Owner Information Package.

COUNTERTOPS

To care properly for the countertops in your Van, always use a heat pad or trivet to protect the surface from hot objects that may mar or damage the countertop surface. Hot pans and heat producing appliances (such as electric skillets), when set directly on top of the countertop, can possibly mar the beauty and finish of the product.

Additionally, since heat producing appliances can also damage the countertop seams, it is essential to check with TIFFIN GH1 Motor Homes to identify seam locations to avoid them during subsequent use of the Van.

Although solid surfacing is repaired easily, certain steps should be taken to protect it. Be sure to use a cutting board rather than cutting an item directly on the countertop surface. Although minor scratches and cuts can be repaired a little care will assure that the countertop surface will keep looking new for years.

Avoid using harsh chemicals on the countertop. Wipe the countertop with a damp cloth to remove water spots. For most dirt and stains, wipe with a damp cloth and soapy water or ammonia based cleaners (e.g., Windex).

If a stain doesn't respond to soap and water, for a matte finish apply an abrasive cleanser and buff it with a Scotch-Brite pad using a circular motion. Use the same technique in the case of a cigarette burn. If the finish is a gloss finish, please contact the dealer for specific cleaning instructions.

Do not expose the surface to harsh chemicals such as paint remover, turpentine, nail polish remover or any stove and drain cleaners. If these chemicals should come into contact with the countertop surface, immediately wash off these chemicals, using appropriate safety to avoid injury.

In the event of subsequent staining or spotting, sand the affected surface lightly with fine sandpaper (400 grit or finer), then buff in a circular motion with a Scotch-Brite pad.

ACCESSORIES

The metallic light fixtures, bath accessories and faucets can be cleaned by wiping with a soft, damp cloth. Washing with warm water will remove dry water spots. Polishing those fixtures with a soft cloth will also enhance the appearance.

Do not use cleaners that contain harsh or abrasive chemicals. Alcohol or other similar solvents should never be used either.

DETECTORS

The CO propane gas detectors are self-contained and DO NOT require any maintenance other than normal cleaning and periodic testing. The smoke detector installed in your Van is a nine volt, battery operated detector.

The CO gas detector is wired directly to the house batteries. The batteries in the smoke detector need to be tested periodically and replaced when necessary. When cleaning the case use a damp cloth or paper towel.

DO NOT spray cleaners or wax directly into the detectors case as this action may cause false alarms or hinder the normal operation of the detectors.

An inexpensive battery detector tester would be a good investment to make. This tester would allow checking of the batteries in the various alarms, any flashlights used in the Van and batteries in other appliances which may be in the Van during travels.

ROUTINE MAINTENANCE SCHEDULES

NOTICE

Always follow the chassis maintenance guidelines found in the chassis manufacturer's manual.

All routine maintenance is the responsibility of the owner and is not covered by the TIFFIN GH1 Limited Warranty. Use the maintenance record found in Chapter 13 to record all performed maintenance as required.

Please note that any damage caused by improper or unperformed maintenance is not covered by the TIFFIN GH1 Motor Homes Limited Warranty. Items supplied by other manufacturers may require specific individual maintenance not listed herein. Please refer to the manufacturers' suggested maintenance guidelines in the Owners Information Package.

NOTICE

Cosmetic adjustments and alignments must be performed within the first three months from date of original purchase for warranty consideration. Thereafter, these items are considered routine maintenance.

MONTHLY:

- Check the water levels of the batteries

EVERY THREE MONTHS:

- Test smoke alarm and carbon monoxide/LP gas detector.
 - Check operation of windows, latches, and hinges.
 - Clean the roof ducted air conditioner filter or filters.
 - Clean and inspect door and window seals; reseal where necessary.
 - Inspect and reseal around the tub and shower area where necessary.
 - Lubricate the exterior door hinges and latches with a graphite (silicone) lubricant.
- Check, clean, and tighten battery cables and inspect batteries for proper fluid levels.

EVERY SIX MONTHS:

- Change the battery in the smoke detector.
- Rotate tires as recommended by the tire manufacturer.
- Check all gas appliances for proper operation.
- Change the batteries in both the smoke detector

ANNUALLY:

- Inspection of roof seams and joints should be performed by an authorized Motor Homes Service Center. If resealing is necessary, it is the owner's responsibility and is not covered by the TIFFIN GH1 Limited warranty.
- Sanitize the fresh water system.

WINTERIZING

To store your vehicle for the winter months, it is necessary to winterize the water system to help prevent freezing of this system. To do this, follow these instructions:

Drain all the water from the water system including the holding tank(s) and freshwater tank. Also, drain the water filter. For the holding tank(s), open the gate valve(s) to drain the tanks. Turn off water heater before draining to prevent burning the element out.

(NOTE: This procedure is to be performed only at a waste water pumping station to prevent dumping of contaminated water elsewhere). For the water heater, remove the outside cover and then remove the drain plug. When this tank is drained, replace the drain plug and then replace the cover. For the water tank, open the red-handled valve to drain the tank; then close the valve. Remove the filter cartridge from the water filter and store it in a clean environment. Empty any excess water from the filter housing and replace the housing.

At the sewer board turn the blue handle valve to the sanitize/winterize position turn the red handle valve to the bypass position.

Connect a vinyl hose to the inlet valve on the sewer board place the other end of the hose into a gallon of freshwater system antifreeze. NOTE: Do not use automotive antifreeze; use only antifreeze approved for RV applications. Otherwise, damage to the systems being protected may result.

Turn “on” the water pump to start the flow of antifreeze. Turn “on” each faucet, one at a time, including the kitchen faucet, bath faucet, inside and outside showers and allow pure antifreeze to run through that piping. Let about one cup drop into the drains to protect the traps.

When all the antifreeze is withdrawn from the bottle, disconnect the vinyl hose from the inlet valve on the sewer board. (This may require more than one gallon of antifreeze).

When the winterize process is completed, turn the water pump “off”. Store the vinyl hose for future use.

DE-WINTERIZING

To de-winterize your vehicle, open both of the low-point drains to allow the antifreeze solution to drain from the water system.

Next, close the low-point drains and connect your vehicle to the city water system. Put water in the freshwater tank and pump at least one gallon through the water pump to remove the antifreeze from the water pump.

As in winterizing, open the kitchen faucet, bath faucet, inside and outside showers, turning “on” both the hot- and the cold-water valves and flushing the stool until the antifreeze solution is flushed out of the system and the water flow is clear.

Open the freshwater tank supply valve from the pump and the icemaker valve.

Be sure to close the fresh water tank drain valves to allow the tank to fill.

WHEEL CARE

The care and maintenance of your wheels are simple and require no special material or products; simply follow the directions included in the Owner’s Information Package for these. Timely care and cleaning will maintain the appearance of these wheel products for many years.

TIRE & SAFETY INFORMATION

This portion of the Owner’s Manual contains tire safety information as required by 49 CFR 575.6. The National Traffic Safety Administration (NHTSA) can be contacted at 1-888-327-4236. Their web site is <http://www.safercar.gov> and their address is: NHTSA, 400 Seventh St, S.W., Washington, D.C. 20590.



CAUTION

Do not use harsh detergents, acids, abrasives which may scratch or dull the surfaces. The applicator cloth, sponge, or soft-bristled brush should be non-metallic and non-abrasive, Also, remember to check the tightness of the wheel lug nuts frequently.

SECTION ONE:

The National Traffic Safety (NHTSA) has published a brochure (DOT HS 809 361) that discusses all aspects of Tire Safety, as required by CFR 575.6. This brochure is reproduced in part below. It can be obtained and downloaded from NHTSA, free of charge, from the following web site:

<http://www.nhtsa.dot.gov/cars/rules/TireSafety/ridesonit/tires index.html>

Studies of tire safety show that maintaining proper tire pressure, observing tire and vehicle load limits, avoiding road hazards, and inspecting tires for cuts, slashes, and other irregularities are the most important things you can do to avoid tire failure, such as tread separation or blowout and flat tires. These actions, along with other care and maintenance activities, can also:

- Improve vehicle handling
- Help protect you and others from avoidable breakdowns and accidents
- Improve fuel economy
- Increase the life of your tires

This section presents a comprehensive overview of tire safety, including information on the following topics:

- Basic tire maintenance
- Uniform Tire Quality Grading System
- Fundamental characteristics of tires
- Tire safety tips

Use this information to make tire safety a regular part of your vehicle maintenance routine. Recognize that the time you spend is minimal compared with the inconvenience and safety consequences of a flat tire or other tire failure.

SAFETY FIRST BASIC TIRE MAINTENANCE

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

FINDING YOUR VAN'S RECOMMENDED TIRE PRESSURE AND LOAD LIMITS

Tire information placards and vehicle certification labels contain information on tires and load limits. These labels indicate the vehicle manufacturer's information including:

- Recommended tire size
- Recommended tire inflation pressure
- Vehicle capacity weight (VCW – the maximum occupant and cargo weight a Van is designed to carry.)
- Front and rear gross axle weight ratings (GAWR – the maximum weight the axle systems are designed to carry).

UNDERSTANDING TIRE PRESSURE AND LOAD LIMITS

Tire inflation pressure is the level of air in the tire that provides it with load carrying capacity and affects the overall performance of the Van. The tire inflation pressure is a number that indicates the amount of air pressure - measured in pounds per square inch (PSI) - a tire requires to be properly inflated. (You will also find this number on the Van information placard expressed in kilopascals (kPa), which is the metric measure used internationally).

Van manufacturers determine this number based on the Van's design load limit, that is the greatest amount of weight a Van can safely carry and the Van's tire size. The proper tire pressure for your Van is referred to as the "recommended cold inflation pressure".

Because tires are designed to be used on more than one type of vehicle, tire manufacturers list the "maximum permissible inflation pressure" on the tire sidewall. This number is the greatest amount of air pressure that should ever be put in the tire under normal driving conditions.

CHECKING TIRE PRESSURE

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

Most tires may naturally lose air over time

Tires can lose air suddenly if you drive over a pothole or other object or if you strike the curb when parking

With radial tires, it is usually not possible to determine under-inflation by visual inspection for convenience, purchase a tire pressure gauge to keep in your vehicle. Gauges can be purchased at tire dealerships, auto supply stores, and other retail outlets.

The recommended tire inflation pressure that vehicle manufacturers provide reflects the proper psi when a tire is cold. The term cold does not relate to the outside temperature. Rather, a cold tire is one that has not been driven on for at least three hours. When you drive, your tires get warmer, causing the air pressure within them to increase. Therefore, to get an accurate tire pressure reading, you must measure tire pressure when the tires are cold or compensate for the extra pressure in warm tires.

STEPS FOR MAINTAINING PROPER TIRE PRESSURE

Step 1: Locate the recommended tire pressure on the vehicle's tire information placard, certification label, or in the owner's manual

Step 2: Record the tire pressure of all tires

Step 3: If the tire pressure is too high in any of the tires, slowly release air by gently pressing on the tire valve stem with the edge of your tire gauge until you get to the correct pressure •

Step 4: If the tire pressure is too low, note the difference between the measured tire pressure and correct tire pressure. These "missing" pounds of pressure are what you will need to add •

Step 5: At a service station, add the missing pounds of air pressure to each tire that is under inflated

Step 6: Check all the tires to make sure they have the same air pressure (except in cases in which the front and rear tires are supposed to have different amounts of pressure)

If you have been driving your vehicle and think that a tire is under-inflated, fill it to the recommended cold inflation pressure indicated on your vehicle's tire information placard or certification label.

While your tire may still be slightly under-inflated due to the extra pounds of pressure in the warm tire, it is safer to drive with air pressure that is slightly lower than the vehicle manufacturer's recommended cold inflation pressure than to drive with a significantly under-inflated tire.

Since this is a temporary fix, don't forget to recheck and adjust the tire's pressure when you can obtain a cold temperature reading.

TIRE SIZE

To maintain tire safety, purchase new tires that are the same size as the Vans original tires or another size recommended by the chassis manufacturer.

Look at the tire information placard, the owner's manual or the sidewall of the tire you are replacing to find this information. If you have any doubt about the correct size to choose, consult with a tire dealer.

TIRE TREAD

The tire tread provides the gripping action and traction that prevents your Van from slipping and sliding, especially when the road is wet or icy. In general, tires are not safe and should be replaced when the tread is worn down to 1/16 of an inch. Tires have built in tread wear indicators that let you know when it is time to replace your tires.

These indicators are raised sections spaced intermittently in the bottom of the tread grooves. When they appear "even" with the outside of the tread, it is time to replace your tires.

Another method of checking your tread depth is to place a penny in the tread with Lincoln's head upside down and facing you. If you can see the top of Lincoln's head, you are ready for new tires. If you are still unsure if your tires need to be replaced, contact your local professional tire dealer and have your tires inspected.

TIRE BALANCE AND WHEEL ALIGNMENT

To avoid vibration or shaking of the vehicle when a tire rotates, the tire must be properly balanced. This balance is achieved by positioning weights on the wheel to counterbalance heavy spots on the wheel and-tire assembly.

A wheel alignment adjusts the angles of the wheels so that they are positioned correctly relative to the vehicle's frame. This adjustment maximizes the life of your tires. These adjustments require special equipment and should be performed by a qualified technician.

TIRE ROTATION

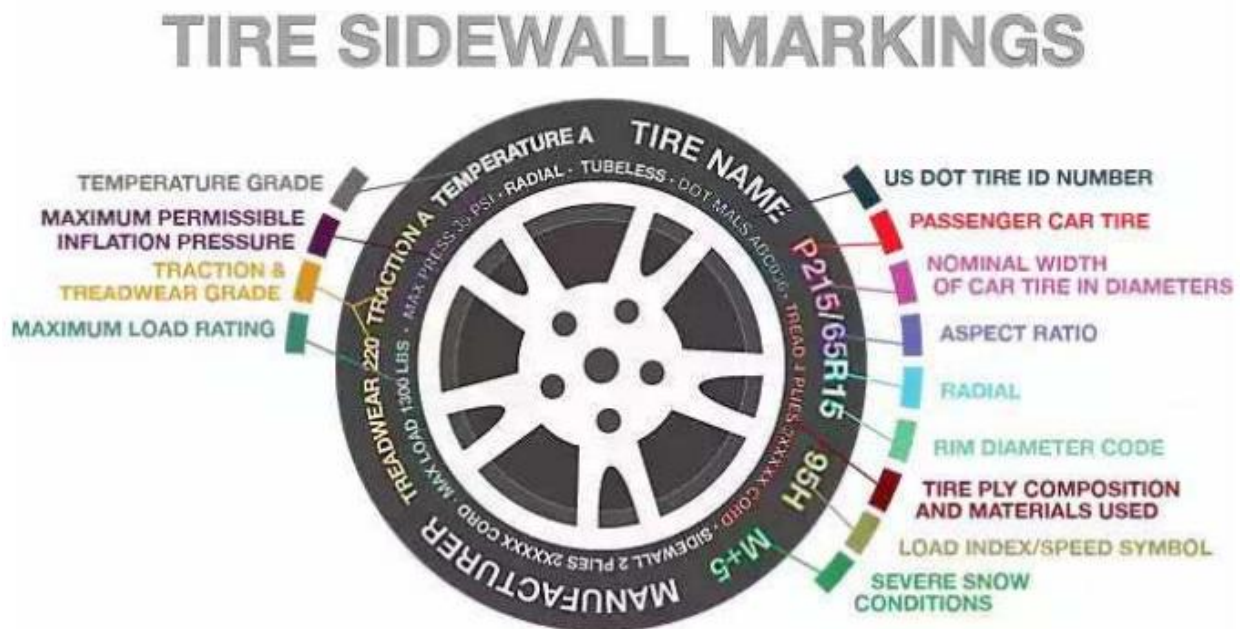
Rotating tires from front to back and from side to side can reduce irregular wear (for vehicles that have tires that are all the same size). Look in your tire manufacturer's owner's manual for information on how frequently the tires on your Van should be rotated and the best pattern for rotation.

TIRE REPAIR

The proper repair of a punctured tire requires a plug for the hole and a patch for the area inside the tire surrounds the puncture hole. Punctures through the tread can be repaired if they are not too large, but punctures to the sidewall should not be repaired.

Tires must be removed from the rim to be properly inspected before being plugged and patched.

INFORMATION ON PASSENGER VAN TIRES



The image above provides an example summary of the sidewall markings on passenger vehicle tires.

For specific information regarding the tires on your Van, please refer to the tire manufacturer's manual which is located in your Owners Information Package.

VEHICLE LOAD LIMITS

Determining the load limits of a Van includes more than understanding the load limits of the tires alone. On a Van, there is a federal certification label that is affixed in the rear closet.

The certification label will indicate the Vans gross vehicle weight rating (GVWR). This is the most weight the fully loaded vehicle can weigh. It will also provide the gross axle weight rating (GAWR).

CARGO CAPACITIES

For Vans, cargo can be added to the vehicle, up to the maximum weight specified on the placard. For motorized vehicles, the combined weight of passengers and cargo is provided as a single number. If fewer people are traveling, more cargo can be added.

If more people are involved, the weight of cargo must be reduced. In any case, remember: the total weight of a fully loaded vehicle, including passengers is not recommended to exceed the (GVWR).

Understanding this flexibility will allow you to make choices that fit your travel and camping needs. 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 as close to the axles positions as allowed. Too many items on one side may overload a tire.

The best way to know the actual weight of the Van is to weigh it at a certified public scale. Talk to your RV dealer to discuss the weighing methods needed to determine the various weights related to the Van. This would include weights for the following: axles, wheels, hitch and total weight.

HOW OVERLOADING AFFECTS YOUR VAN AND TIRES

The results of overloading can have serious consequences for passenger safety. Too much weight on your Vans suspension system can cause:

- Spring issues
- Shock absorber issues
- Brake failure
- Handling or steering problems
- Irregular tire wear
- Tire failure
- Other serious damage

TIRE SAFETY TIPS

Preventing tire damage:

Slow down if you have to go over a pothole or other objects in the road

Do not run over curbs or other foreign objects in the roadway, and try not to strike the curb when turning corners or when parking

Tire safety checklist:

Check the tire pressure regularly (at least once a month), this check should also include the spare tire

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

Remove bits of glass or foreign objects wedged in the tire tread. (*Use caution when removing such debris as to not cause personal injury*).

Make sure your tire valves have valve caps

Check tire pressure before, during, and after a long trip

DO NOT overload your vehicle. Check the tire information and loading placard or tire manufacturer's owner's manual for the maximum recommended load for the Van

SECTION TWO:

TIRE PRESSURE

Correct tire inflation pressure is essential to maximizing the life of your tires and assuring the safety of the Van and its occupants. Driving with tires that are not correctly inflated for the load of the Van is dangerous and may cause premature wear, tire damage and/or loss of control of the Van.

An under inflated tire will build up excessive heat that may actually approach the vulcanization temperature of the rubber and lead to tread separation and/or disintegration of the tire.

Under inflated tires will also cause poor handling of the Van, rapid and/or irregular tire wear and an increase in rolling resistance of the Van which, in turn produces a decrease in fuel economy of operation.

An over inflated tire will reduce the tire's "footprint" (i.e., its actual contact with the road); thus reducing traction, braking capacity and handling of the Van.

A tire that is over inflated for the load that it is carrying will also contribute to a harsh ride, uneven tire wear and the tire itself will be more susceptible to impact damage.

Maintaining correct tire pressure for each loaded wheel position on the Van is critically important and must be a part of regular Van maintenance.

FREQUENCY OF CHECKING TIRE INFLATION PRESSURES

When you have determined the "correct" tire inflation pressures for each of the Van tires and inflated the tires under "cold" conditions, meaning the tires haven't been driven for more than one mile, then the air pressures in the tires should be periodically checked to make sure that they keep their proper pressure.

It is recommended that tire pressures be checked at least once a month or preferably every two weeks and before any major trip.

On long trips, the tires should be checked every "drive" morning. On short trips (a day or less), the tires should be checked before one departs on the trip and again before one returns home.

Check tire pressures when they are "cold"; that is tires haven't been driven at all or at most, less than one mile before being measured. In this manner, the tire pressure has not been increased by the heating associated with tire sidewall and tread flexure associated with traveling.

If you check tires that are warm or hot, remember that they will necessarily read higher than normal. Do not "bleed" these tires down to "cold pressure" readings as they will probably be under inflated when they are actually cool. Do not make any adjustments to tire pressures when the tires are warm or hot, if such can be avoided.

To make these tire pressure measurements, it is recommended that you purchase a high quality, truck tire air gauge which has an angled dual head. This type of gauge allows you to check inflation pressures of both the inner dual wheel which has the valve stem pointing towards one and on the outer wheel which has the valve stem pointing away from one. Pressure sealing valve caps should always be used to protect the valve stems and prevent air from escaping from the valve stems.

TIRE WEAR, BALANCE, AND WHEEL ALIGNMENT

In addition to tire inflation considerations, the tires should also be periodically examined for other types of normal "wear and tear". If installed and maintained properly, all tires mounted on the Van should wear in a smooth and even pattern.

If the tires begin to show irregular wear patterns and the Van alignment is still correct, then sometimes having the tires rotated and changing their wheel position will allow the tires to wear evenly. Check the chassis manufacturer (Mercedes Benz) and its literature in the Owners Information Package for particulars on maintaining proper wheel alignment.

TIRE CLEANING

Proper cleaning of the tires will assure maximum years of service. A soft brush and a normal mild soap should be used to clean the tires. Use care in applying any tire "dressing" product as these contain petroleum derivatives, alcohol or silicones which may cause deterioration of the rubber. This could lead to cracking and accelerate the aging process. In many instances it isn't the actual dressing itself, but the reaction of the product with the antioxidant in the tire. Heat can compound this problem also.

TIFFIN GH1

MAINTENANCE & DATA CHART

Chapter

13

RV OWNER'S DATA SHEET

Please enter the following information in the table for your future use:

TIFFIN GH1: _____ YEAR: _____ MODEL # _____ TIFFIN GH1 SERIAL # _____			
DATE/MILEAGE	WORK PERFORMED	PERFORMED BY	COST

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Reproduction Master – Copy this sheet and use copy to maintain your maintenance records. You may wish to keep the completed sheets in a three-ring binder for your permanent record.

RV OWNER'S MAINTENANCE RECORD

TIFFIN GH1: _____ YEAR: _____ MODEL # _____			
TIFFIN GH1 SERIAL # _____			
DATE/MILEAGE	WORK PERFORMED	PERFORMED BY	COST

--	--	--	--

RV OWNER'S MAINTENANCE RECORD

TIFFIN GH1: _____ YEAR: _____ MODEL # _____
 TIFFIN GH1 SERIAL # _____

DATE/MILEAGE	WORK PERFORMED	PERFORMED BY	COST

RV OWNER'S MAINTENANCE RECORD

TIFFIN GH1: _____ YEAR: _____ MODEL # _____			
TIFFIN GH1 SERIAL # _____			
DATE/MILEAGE	WORK PERFORMED	PERFORMED BY	COST



TIFFIN

MOTORHOMES

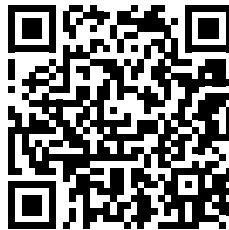
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To view or download a full color, printable version of this owner's manual, visit

www.tiffinVans.com/resources/owners-manual

OR SCAN BELOW



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