

H L ENTERPRISE, INC. LIMITED WARRANTY

Except as specifically excluded below, H L Enterprise, Inc. (hereinafter "H L"), WARRANTS to the Original Consumer Purchaser for a period of one (1) year from the date of delivery to the Original Consumer Purchaser that the trailer manufactured and assembled by H L shall be free from defects in materials and workmanship supplied and attributable to the Manufacturer.

EXCLUSIONS

THE LIMITED WARRANTY AND THE OBLIGATIONS STATED HEREIN DOES NOT APPLY TO: (1) All equipment, products, components, appliances, accessories, or parts not manufactured by H L whether or not warranted including but not limited to, paint, tires, wheels, axles, jacks, couplers, fiberglass components, awnings and electrical fixtures and/or components; (2) damage or loss caused in whole or in part by the acts or omissions of any kind by any party other than H L; (3) damage or loss caused in whole or in part by misuse, including, but not limited to, overloading, lack of preventative maintenance, or for use other than what the product is designed for; (4) damage or loss caused by abuse, neglect, theft, vandalism, product modification, improper consumer or dealer installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the trailer; (5) routine maintenance of the trailer, including but not limited to, tightening screws, adjusting doors and/or adjusting brakes; (6) damage or loss caused in whole or in part by the unauthorized attachments, modifications or alterations to the structure, body or frame of the trailer; (7) the chassis and any mechanical parts of the trailer, including but not limited to, any parts of the brake system, wheel balance, tires and tubes; (8) damage occurring during shipment (claims must be presented to carrier); (9) damage or loss caused in whole or in part by exposure to natural atmospheric elements, corrosive chemicals,

ash or fumes generated or released by vehicles, rotting of wood caused by the presence of water, or any other source; (10) damage or loss caused in whole or in part by the overloading or the improper balancing of the load; (11) damage or loss caused in whole or in part by the wilful or negligent acts of the driver of the vehicle pulling the trailer, an accident involving the trailer, the condition of any road surface over which the trailer is pulled, striking or driving over a curb or any other object; and (12) any incidental and consequential damages including, but not limited to, transportation, fuel, food, lodging, telephone calls, towing charges, bus and taxi fares or car rentals, on-site service calls, as well as commercial use and loss of use; (13) defects in aesthetics or physical appearance of trailer existing at the time of original owners acceptance.

H L'S RESPONSIBILITY

H L's liability under the foregoing warranties is limited to the repair or replacement of the defect in materials and workmanship by H L. H L does not undertake responsibility to any Original Consumer Purchaser of its trailer for any undertaking, representation, or warranty made by the dealer selling the trailer beyond those expressed herein.

Please note the distinction between "defects" and "damage" as used in this Limited Warranty; "defects" are covered because H L is responsible; on the other hand, we have no control over "damage" caused by such things as collision, misuse and lack of maintenance which occurs after the trailer is delivered to the Original Consumer Purchaser. Therefore, "damage" for any reason which occurs after the trailer is delivered to the Original Consumer Purchaser is not covered under this warranty. Maintenance services are also excluded from the warranty because it is the owner's responsibility to maintain the trailer.

TO OBTAIN WARRANTY SERVICE

To obtain warranty service the Original Consumer Purchaser must deliver the trailer to H L only or (at H L's option) the nearest authorized dealer or service center within a reasonable time after discovery of the defect within the warranty period. All shipping or towing expenses incurred in transporting the trailer for warranty service shall be the Original Consumer Purchaser's responsibility. The name and address of the nearest authorized service center can be obtained by writing or calling H L at the address and telephone number provided below. Upon requesting the warranty services you will be asked for:

- (a) Your name;
- (b) Date of retail sale;
- (c) H L manufacturing vehicle ID number;
- (d) An explanation of the anticipated warranty claim.

H L understands that there are times when there is no authorized dealer or service center near you when you may require warranty service. In such a circumstance, warranty service can be obtained at a non-H L dealer only upon the prior authorization of H L. After contacting H L you will be given an H L warranty authorization number. This warranty authorization number must appear on all repair orders returned to H L by the non-H L dealer. Please note: ALL SUCH WARRANTY CLAIMS MUST BE SUBMITTED TO OUR OFFICE WITHIN THIRTY (30) DAYS OF THE AUTHORIZATION DATE TO BE CONSIDERED FOR PAYMENT.

DISCLAIMERS

H L WILL NOT BE RESPONSIBLE OR LIABLE FOR LOSS OF THE TRAILER, ON-SITE SERVICE CALLS OR SERVICE CHARGES. LOSS OF TIME, INCONVENIENCE, EXPENSES FOR GASOLINE, TOWING CHARGES OR TRANSPORTATION COSTS, LOSS OF USE, RENTAL OF SUBSTITUTE EQUIPMENT, TELEPHONE, TRAVEL, LODGING, DAMAGE OR LOSS TO PERSONAL PROPERTY, LOSS OF REVENUES OR OTHER COMMERCIAL LOSS, OR ANY OTHER SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND OR NATURES RESULTING FROM ANY DEFECT IN THE TRAILER.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED OR INFERED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF THE MANUFACTURER; WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IF ANY, GIVEN BY LAW, SHALL BE LIMITED TO AND NOT EXTEND BEYOND THE DURATION OF THE WRITTEN LIMITED WARRANTY PERIODS SET FORTH HEREIN. NO PERSON HAS THE AUTHORITY TO ENLARGE, AMEND, OR MODIFY THIS LIMITED WARRANTY.

SOME STATES DO NOT ALLOW THE LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS; YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

WARRANTY VALIDATION

THE RETURN OF THE OWNER REGISTRATION CARD IS A CONDITION OF THE WARRANTY COVERAGE. The Original Consumer Purchaser should return the owner registration card within fifteen (15) days of the original purchase so that the warranty may be properly validated. Failure to complete and mail this card to H L will invalidate the limited warranties provided herein.

If you have any questions regarding this Limited Warranty, please contact H L.

H L ENTERPRISE, INC.

21674 Beck Drive

Elkhart, Indiana 46516

1-574-294-1112

If you need warranty assistance on equipment, products, components, appliances, accessories, or parts not manufactured by H L Enterprise, Inc. please refer to the manufacturers appendix in the back of this manual. Names, addresses, and phone numbers for the customer service departments of the individual manufacturers are included for your convenience. You will save time and energy by contacting these manufacturers directly, since they are the ones most able to assist you. If you have contacted the manufacturer directly and still have questions, please call. We will make every attempt to assist you.

H L ENTERPRISE, INC.

21674 Beck Drive • Elkhart, IN 46516

574-294-1112 or Fax to 574-293-4672

During the course of the model year, or when certain regulatory codes are modified or changed, it may be necessary for us the manufacturer to make modifications and changes to our published specifications. The company reserves the right to make those upgrades and changes in an effort to continually improve the retail products that we offer to our end term consumer. Please periodically visit us at our web page *www.hylinetrailers.com*.

For any changes or additions, please visit our website at: www.hylinetrailers.com

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Dear Customer,

We wish to personally welcome you to the growing family of RV owners and to thank you for purchasing a Recreational Vehicle manufactured by **H L Enterprise, Inc.**

INTRODUCTION

This owner's manual has been prepared to help you and your family enjoy your new RV to its fullest. The manual provides basic instructions for operation and maintenance of its appliances, accessories and RV systems. Please read it carefully and follow the instructions. Also, read and follow the instructions contained in the appliance and accessory instruction booklets provided by the various manufacturers, which also are a part of the information packet located in your unit.

IT IS IMPORTANT THAT YOU COMPLETE AND RETURN THE APPLIANCE MANUFACTURER'S WARRANTY CARDS PROVIDED WITH YOUR APPLIANCES.

Remember -- Your travel trailer was made to provide you and your family with years of pleasant trailering; do not abuse it. **BE A SAFE DRIVER, OBSERVE ALL LOCAL AND STATE LAWS WHEN TRAVELING, AND FOR THE SAKE OF YOUR PARKS, LAKES, STREAMS, AND CAMPING AREAS, PLEASE DO NOT LITTER!** Use refuse containers where provided.

TRAVEL PREPARATIONS GENERAL

We recommend that you read this manual and the appliance and accessory instruction booklets included in your owner's packet, and store them in your unit for future reference.

We further recommend to our RV novices that you plan a weekend or overnight trip to help you become familiar with your unit, its appliances, and systems.

LICENSES

Vehicle licensing laws vary from state to state. Check with your local license bureau or nearest branch office for your state requirements.

INSURANCE

Personal liability, property damage, collision and theft of contents may be features of your automobile policy which apply to your travel trailer. Contact your insurance agent about details, and always carry your policy card.

VEHICLE TOWING GUIDE

This section is to instruct you, the H L customer, in selecting the proper tow-vehicle for your unit.

TOWING VEHICLE

Whether using your own truck or car, or if you buy a new tow vehicle, be sure to contact your dealer for information concerning the aspects of towing your travel trailer. Most auto manufacturers offer a towing package which includes a larger alternator or generator, a larger battery, heavier ply tires, heavy duty springs, heavy-duty shock absorbers, side-view mirrors, and/or a larger engine cooling system along with a larger transmission cooling system. Your travel trailer uses a 2 5/16" ball hitch. Be certain the tow vehicle will accommodate the weight of the hitch. Installation of a weight distribution hitch is recommended for all travel trailers to help distribute some of the hitch weight to the vehicle. Also available is a sway-control device, which minimizes swaying caused by cross winds, etc. Safety chains should be used and crisscrossed under the "A" frame of the unit.

TOWING HOOKUP FOR TRAVEL TRAILER

Crank the front jack clockwise to raise the coupler above the hitch ball. Maneuver the towing vehicle to position the ball directly under the coupler. Crank the jack counterclockwise to lower the coupler to the ball.

Push the coupler lever down and back to its fullest extent. Lower the coupler onto the ball. Secure connection by pushing lever forward. The two notches at the rear of the lever must rest on top of the coupler. Insert a locking device through the coupler lever and the bracket holes. You may purchase a locking device from your H L dealer.

FRONT JACK

Crank the front jack counterclockwise until the dolly wheel is off the ground. Loosen, but do not remove the thumb screw which holds the dolly wheel to the jack stand. Remove wheel and store. Crank the jack all the way up. If this procedure is not followed, the front jack stand may be damaged if it should happen to dig into the ground or pavement.

SAFETY CHAINS & ELECTRICAL CONNECTION

Cross the safety chains under the "A" frame and attach them to the towing vehicle's hitch platform. Plug the electrical pigtail into the towing vehicle's electrical harness. Leave enough slack in the chains and pigtail to allow the unit to turn freely. However, they must never drag on the ground.

COUPLER MAINTENANCE

To insure proper functioning of the coupler and jack post, lightly oil each unit. The trailer ball on your car should also be lightly greased.

ELECTRICAL CONNECTION

A standard six-pin connector comes wired to your travel trailer using the following standard color code.

1. Green.....Running Lights
2. Brown.....Right Turn
3. Red.....Left Turn
4. Blue (Hot).....Brakes
5. White.....Ground
6. Black.....12-Volt Interior Lights

Note: If improperly wired, damage to lights, wiring and fuses may occur.

EXTERIOR LIGHTS

Your travel trailer is equipped with clearance, license, directional and stop lights. These bulbs are 12-volt like those used in your car. Be sure that they are operating properly before every trip. Bulbs are available at any auto supply dealer.

If the directional light flashes very slowly, it is an indication that the flasher-can in your car is a low voltage flasher.

If this is the case, obtain a heavier flash-can from your local automobile supply dealer.

TIRES

Proper tire inflation and balance are very important. Tires should be inspected before each trip. Your trailer is equipped with properly rated tires. For maximum load carrying capacity, the tires should be inflated to proper tire pressure.

Tire Axle Rating PSI

ST 205 75R15C 3500 # 50

ST 225 75R15D 5200 # 65

ST 225/75R15 E Rated 6000 # 80

8-14.5E MH 5200# 105

If you should require an adjustment on a faulty or defective tire, secure the name of your nearest tire manufacturer or distributor, and they will make an adjustment according to the terms and conditions of their guarantee. Do not dispose of the tire until your tire manufacturer has been notified. (Manufacturers' names and phone numbers are provided in the back of this owner's manual.)

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To change a tire, a hydraulic, scissor or screw jack must be used. A bumper jack should not be used as it may damage the side of the trailer or part of the undercarriage.

DO NOT place the jack under the axle. The trailer must be jacked on the frame so the axle will drop down to allow the tire to clear the wheel well. In some cases, it will be necessary to remove the wheel hub to get the tire to clear the drum. If the unit is to be left while you repair the tire, rest the axle and tongue on blocks.

AXLE

Spring shackles do not require lubrication, but the wheel bearings should be repacked every 12 months or 10,000 miles, whichever comes first.

BRAKES

The brakes on your unit, with proper care, will provide ample braking under normal circumstances. If brakes do not function properly, do the following:

1. Refer to the Manufacturer's Operating & Maintenance Manual.
2. Check connection at the carplug, brake controller, or battery.
3. Check for corroded connections.
4. Check for wires pulled from socket connections or connections on wheel-backing plates.
5. Check for shorts in wiring.

NORMAL DRIVING

Pump the brakes when braking, as prolonged pressure will cause the brakes to fade. Always use the trailer brakes first in slippery weather to avoid jackknifing. Brakes may not be effective after trailer has been stored as rust accumulates in the mechanism. To remedy this, take the trailer on the road and use the brakes frequently until they are working satisfactorily.

NOTE: When your trailer is new you may hear a grinding noise coming from the brake drums. This is normal as they are seating the magnet into the armature plate. The noise will diminish as more miles are accumulated on the trailer. A squeaky brake is also characteristic of electric brakes when they are new.

REMEMBER -- A brake control system must be installed in your tow vehicle to operate the electric brakes of your travel trailer.

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CAUTION -- Some states require a breakaway switch. Please check with your dealer regarding state requirements.

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EXTERIOR MAINTENANCE

ROOF

Your unit has a continuous rubber roof manufactured by Dicor Corp. Please check the sealant around all vents, endcaps and moldings on an annual basis.

EXTERIOR FINISH

Preserve the original beauty of your travel trailer and the value of your investment by keeping it as clean as possible. Tree sap, road tar, insects, and industrial smoke contain harmful chemicals that may damage the finish of your trailer. The outside is prefinished aluminum; wash frequently with a mild detergent and water. The exterior may be protected with a good car wax. If you travel on salted roads, wash the unit as soon as possible. DO NOT use gasoline to remove road tar.

INTERIOR MAINTENANCE

COUNTER TOPS

To maintain counter top beauty and life, wash with mild detergent after each use. Avoid using gritty or harsh cleansing agents. Wax if desired.

FLOORS (Linoleum)

To preserve the beauty of the floor, wash with a good floor cleaner and wax floors often. Sand and grit will mar the appearance of the linoleum. Using too much water when cleaning the floor may cause discoloration to the lower woodwork and cabinet doors.

PANELING

The woodwork and paneling in your travel trailer will stay clean and beautifully preserved by cleaning with a mild detergent. Do not use too much water, just enough to remove the film. Do not use harsh detergents as it will cause the finish to chip or discolor. After washing, if you so desire, you may use a commercial paneling wax or polish to help protect the finish.

FABRICS

To preserve the beauty of the fabrics in your travel trailer professional dry cleaning is recommended.

LP GAS SYSTEM AND LP GAS APPLIANCE OPERATION

The Liquefied Petroleum (LP) Gas System in your unit furnishes fuel for hot water, heat, cooking and refrigeration. LP gas is normally propane or a blend of propane and butane, depending upon your

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location. Butane will not vaporize below 32 degrees F. However, propane will vaporize down to 44 degrees below zero. The LP gas system in your travel trailer is designed and built to rigid standards and tested before leaving the factory.

LP gas burns readily and with intense heat. With proper care and maintenance, it is safe and efficient. In its natural state LP gas is odorless, but certain additives give it a distinct odor so that leaks may be readily detected.

NOTE: H L Enterprise, Inc. is not responsible for personal injury or property damage resulting from improperly maintained LP gas systems and appliances.

NOTE: Some states prohibit vehicles equipped with LP gas bottles from using tunnels. A few other states prohibit traveling with the service valve open and the pilots lit.

Before using any LP gas appliance, read the respective manufacturer's instruction manual. To operate any LP gas appliance, the LP gas bottles service valve(s) must be open. When first used, or after a refill, there may be some air in the gas lines which will escape when you first open a range burner or similar LP gas valve. The air may extinguish your match or igniter the first time or two, before you get ignition.

REGULATOR/CHANGEVER

Each LP gas bottle, or pair of gas bottles, will have a regulator. The regulator may be a manual changeover or an automatic changeover. In the case of the former, only open the service valve on one bottle at a time. Be sure to close the service valve on the empty bottle before opening the service valve on the full bottle or you will end up draining gas from one bottle to another leaving insufficient pressure to service your appliances. In the case of an automatic changeover you may open service valve on both bottles and the automatic regulator will changeover to the full bottle when one is emptied. Since moisture can collect in the regulators you could run into a freeze-up situation in cold weather.

PROCEDURE FOR FILLING NEW CYLINDERS WITH AN OPD VALVE

1. Properly purge per your procedure.
2. Valve hand wheel needs to be closed.

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3. Attach fill hose to outlet valve.
4. Open valve in filling device.
5. Open 10% (bleeder valve) slotted screw.
6. Slowly open the cylinder valve a 1/4 turn.
7. As the cylinder starts to fill – you can open the cylinder hand wheel more. (It only needs to be open about 1 turn to be as open as necessary.)
8. When bleeder valve begins to leak out liquid, shut off the filling device and close the bleeder screw. Close the cylinder valve.

For further information on filling procedures please contact:
Worthington Cylinders at 1-800-249-5886.

Once a month check all gas connections in the trailer and UNDERNEATH with a solution of soap and water. Due to traveling, connections may become loosened and leak gas.

NEVER CHECK WITH A LIGHTED MATCH LP GAS APPLIANCES

Your travel trailer comes equipped with a three or four burner range and oven, a gas hot water heater, a gas furnace, and a gas/electric refrigerator. For best results again, we recommend that you read the instruction manuals from the individual manufacturers. However, we wish to provide you with a few helpful hints and words of caution. In each case, to light or use these appliances, you must make sure the LP gas bottle service valve is open.

LIGHTING THE RANGE

Hold a lighted match to a burner then turn that burner's control knob on. Air in the line may cause a blowing noise and may extinguish the match. When the line is free of air, the burner will light readily. Adjust the burner flame with the control knob.

The gas stove installed in your travel trailer is similar to those used in homes. Minor adjustments may have to be made by your dealer (air/gas mixture) before use. Keep your gas range clean, using mild detergent or cleansers and wax if desired. The oven and racks should be cleaned after each use. Follow instructions in the Manufacturer's Operating & Maintenance Manual.

CAUTION: When using the range burners or oven, open a window or vent. DO NOT use range and/or oven to heat the

interior of your unit. Failure to heed these cautions could result in asphyxiation.

RANGE HOOD

Your unit is equipped with a power range hood and light controlled by knobs on top of the hood. Turn the fan ON to draw smoke and cooking fumes out of the unit. This hood is lighted and all product information on this component is in your "Owner Literature" included in the packet.

WATER HEATER

The water heater may be an LP gas appliance capable of heating 6 or more gallons of water depending on the model. When the system is connected to city water, fill the water heater by opening a hot water faucet. When filling the fresh water tank, turn the water pump on and open a hot water faucet. In either case, when water flows steadily, turn the faucet off. Any air still in the tank can be removed by opening the relief valve in the outside access compartment.

Lighting pilot - Open the gas bottle service valve, turn the gas cock knob to OFF. Always wait 5 minutes to allow LP gas which may have collected in the burner compartment to dissipate.

Caution - DO NOT light the pilot unless the water heater is full of water. Turn the gas cock knob counterclockwise to PILOT. Press and hold the reset button until the pilot has burned for one minute. Turn the gas cock knob to ON.

REFRIGERATORS

A combination gas/electric refrigerator may be installed in a travel trailer. For lighting, consult the instruction booklet supplied with your unit. The louvered door behind the burner assembly, the large vent chute and the vent cap assembly installed on your unit will provide ample ventilation. When you park your vehicle, even for a relatively short period, the refrigerator must be level since it functions on the gravity flow of chemicals. The refrigerator will operate effectively while in motion because of the surging action caused by the moving vehicle. During moves, the thermostat may need to be lowered to prevent freezing of the food in the refrigerator.

Keep the refrigerator clean by washing it out with soda water or cleaner. Leave the door ajar if you are not going to use it again soon. If

not kept clean, molds that form will stain the interior finish and racks will become rusty if not wiped dry.

If you experience trouble with your refrigerator, **DO NOT** attempt to repair it yourself. Consult your dealer or commercial repairman. Follow the instructions in the Manufacturer's Operating and Maintenance Manual.

GAS FURNACE

Refer to the lighting instructions affixed to each furnace. Each furnace has "safety" pilot features. Keep the furnace free from dust and dirt. Always leave a window open when sleeping with the furnace in operation. Refer to the Manufacturer's Operating & Maintenance Manual for further instructions.

Recreation Vehicle Owner's Guide to Moisture Management

Congratulations and thank you for purchasing your recreation vehicle (RV). This guide outlines important recommendations to manage moisture in your new RV to avoid moisture-related damage, such as mold, which is caused by moisture. The materials and methods used to construct your RV 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 your RV.

This easy-to-read moisture management guide covers:

- 1.0 Interior Care of Your RV
- 2.0 Exterior Care of Your RV
- 3.0 Use of Your RV
- 4.0 Severe Environments
- 5.0 Storage of Your RV
- 6.0 Modifications to Your RV
- 7.0 Wet Areas
- 8.0 Additional Resources

These suggestions are intended to minimize moisture-related issues with your RV. To maintain the value of your investment, please read and follow your owner manual and the suggestions provided below. Contact your manufacturer if you have any questions.

1.0 Interior Care of Your RV

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 quickly determine the cause of the excess moisture and take appropriate corrective action to prevent moisture-related damage.

1.1 Control Relative Humidity

Monitoring and controlling relative humidity within the RV is one of the most important steps to minimize the risk of moisture-related damage. Ideally, relative humidity should be at 60% or less. Relative humidity can be monitored utilizing a portable hygrometer, a small device that

measures temperature and relative humidity. Hygrometers are available at electronics or building supply stores for approximately thirty dollars (\$30).

Use exhaust fans, the air conditioner, and/or a portable dehumidifier to manage moisture inside the RV to maintain relative humidity at 60% or less. In cold climates, relative humidity may need to be at 35% or less to avoid window condensation issues.

If the RV is used the majority of the time in a hot-humid climate, it may be difficult to keep relative humidity below 60%. A dehumidifier will help, but it is important to check the condensation (water) collection bucket regularly or discharge the condensation (water) directly to a drain.

1.2 Avoid Drastic Thermostat Setbacks

Cooler surface temperatures increase the potential for condensation and surface mold growth. To minimize the opportunity for condensation to form on interior surfaces, maintain a comfortable temperature in your RV, and avoid nighttime setbacks of 10 degrees or more. Drastic setbacks that reduce the indoor air temperature quickly can increase the chance for airborne moisture to condense on cool surfaces such as windows. If you are away from your RV for an extended number of days, we recommend that you do not set the temperature back without taking other measures to manage relative humidity, including operating a dehumidifier with a continuous drain.

1.3 Manage Window Condensation

Window condensation issues can be identified by water or ice-build up, usually at the base of the window. The majority of these problems can be addressed by managing moisture generated inside the RV. Minor condensation issues are not unusual, especially for RVs used in colder climates. The key is to manage this small amount of moisture if evident by wiping the surface, and as discussed in 1.1 above, maintaining a reasonable relative humidity within the unit.

To help minimize window condensation, use exhaust fans vented to the outside, avoid drastic changes in thermostat settings, do not use 'vent-free' heaters and use window coverings wisely. For example, make sure to open curtains or blinds during the day to allow air to circulate and warm the window surface.

1.4 Carpet Care and Moisture Management

To keep your carpet serviceable and looking new for years to come, the carpet should be cleaned when it shows signs of discoloration or traffic patterns. A steam cleaning system should be used to clean the carpet unless otherwise noted in your owner's manual or warranty information. To manage moisture from the cleaning process, the cleaning system needs to be capable of extracting the excess water from the carpet after it has been cleaned. Important: Be sure the carpet is thoroughly dry before closing up the RV for storage. Water from the cleaning process can cause significant damage to the RV if the carpet is not completely dry before closing up the RV for an extended period.

1.5 Cleaning Tile and Wood Floors

Please refer to your owner's manual or warranty information for cleaning instructions for the tile or wood floor installed in your RV. Most floors only require a mild detergent and warm water for cleaning. More water on the floor is not always better for cleaning. Use a damp cloth to clean on a regular basis rather than wet mopping each time.

1.6 Storage & Other Isolated Areas within the RV

Storage areas are more difficult to condition since the areas are isolated from the main body of the RV. The surfaces of these areas are more at risk for condensation and surface mold growth. To minimize this risk, clean storage areas regularly, and allow an air space between stored items and the exterior wall to promote air circulation.

1.7 Use of Un-vented Combustion Equipment

Un-vented combustion equipment, such as propane stovetops, are a source of moisture within the RV. For every gallon of fuel consumed, approximately one gallon of water vapor is evaporated into the air. Whenever possible, operate an exhaust fan in combination with the use of any un-vented combustion appliance within the RV. Water vapor and other combustion by-products should be vented to the exterior of the RV. The RV owner should strictly follow use and maintenance instructions for safe operation of any combustion equipment, particularly un-vented equipment.

2.0 Exterior Care of Your RV

The exterior shell of the RV is the primary weather and moisture barrier. Over the life of the vehicle, the shell will require regular care and maintenance in accordance with the owner's manual.

The shell includes the roof, sidewalls, windows, doors, and under-floor of the vehicle. Particular attention needs to be devoted to ensure these components are maintained to ensure a tight barrier against bulk water intrusion.

The shell should be inspected periodically for tears, gaps, and condition of sealants in accordance with your owner's manual. Areas that require maintenance should be resealed utilizing a similar, high-quality sealant used by the manufacturer.

Particular attention should be devoted to ensure the slide out(s) are functioning properly. Each time a slide out is used, it should be inspected to ensure proper operation and sealing. The slide out gaskets should also be inspected to ensure proper sealing when the slide outs are operated.

3.0 Use of Your RV

It is important to remember that the square footage of an RV is significantly less than that of a single family residence. This fact alone will elevate the relative humidity because there is less volume of air to help absorb or dissipate the humidity. For example, showering and cooking create a lot of humidity in a small area. In these instances, use of an exhaust fan and opening windows should reduce the relative humidity, particularly when living in the RV for an extended period.

4.0 Severe Environments

Prolonged use of your RV in severe environments - for example in extremely cold or hot-humid climates, will require extra care and maintenance to avoid moisture-related issues.

In both extremely cold and hot-humid climates, more attention needs to be-focused on controlling relative humidity within the RV. It also may require the use of a portable dehumidifier to manage relative humidity within an acceptable range. This is discussed further in section 1.0.

If you have any questions about moisture-related issues in the environment you plan to use the RV in for a majority of the time, contact your manufacturer's representative.

5.0 Storage of Your RV

During those periods when your RV is not in use, care must be taken to ensure moisture sources are addressed. Ideal storage of your RV would be in an enclosed climate-controlled environment. When this is not possible, the following steps should be taken to ensure moisture is controlled:

- a. Turn off all water sources;
- b. Turn off all combustion appliances;
- c. Drain the water tank(s);
- d. Drain the water heater;
- e. Open all closets, cabinet doors and drawers;
- f. Close all windows and entrance doors;
- g. Open a vent or a window enough to allow for some limited ventilation air flow, but not so far as to allow snow or rain to enter;
- h. When storing the RV in high humidity climates (ambient relative humidity is greater than 60% year round), add a dehumidifier drained to exterior to control humidity inside the RV during storage; and
- i. Check your owner's manual for any additional recommendations.

6.0 Modifications to your RV

Consult your manufacturer for guidance prior to making any modifications to your RV. It is important that changes be completed by a qualified service firm to ensure that moisture intrusion or accumulation problems do not occur.

7.0 Wet Areas

Areas that are exposed to water spills or leaks should be dried as soon as possible and definitely within 24 to 48 hours. Drying areas quickly minimizes the chance for moisture damage and possible mold growth, which can begin to form colonies in 48 hours. A variety of methods can be used to help the drying process:

- Remove excess water with an extraction vacuum
- Use a dehumidifier to aid drying
- Use portable fans to move air across the surface
- Because moisture is key to mold issues, treat all signs of condensation and spills seriously and deal with them promptly. Failure to deal with a moisture issue promptly may cause more severe issues where none initially existed or may make a small problem much worse.
- Learn to recognize signs of mold - don't paint over or cover up suspicious discoloration until you are sure it is not mold. The affected surface must first be cleaned and dried; residual staining may be painted;
- Be sure to understand and eliminate the source of moisture accumulation as a part of the clean-up. Otherwise, the same issues will simply reoccur;
- Small amounts of mold should be cleaned as soon as they appear. Small areas of mold should be cleaned using a detergent/soapy solution or an appropriate household cleaner. Gloves should be worn during cleaning.
- The cleaned area should then be thoroughly dried. Dispose of any sponges or rags used to clean mold.

8.0 Additional Resources

If you are interested in more information on moisture management, here are some resources to review:

A Brief Guide to Mold, Moisture, and Your Home, by the U.S. Environmental Protection Agency, Office of Air and Radiation Indoor Environments Division (66093) 1200 Pennsylvania Ave., NW, Washington, DC 20460 EPA Publication #402-K-02-003.

Moisture Problems in Manufactured Homes: Understanding Their Causes and Finding Solutions, by the Manufactured Housing Research Alliance, 2109 Broadway, Suite 200, New York, NY 10023. (212)496-0900.

Mold in Residential Buildings, by the National Homebuilders Association Toolbase Technote July 2001 do NAHB Research Center, 400 Prince George's Blvd, Upper Marlboro, MD 20774.301-249-4000.

Mold Remediation in Schools and Commercial Buildings, by the U.S. Environmental Protection Agency, Office of Air and Radiation Indoor Environments Division (66093) 1200 Pennsylvania Ave., NW, Washington, DC 20460 EPA Publication #402-K-01-001.

FRESH WATER SYSTEM GENERAL

Fresh water for your unit is supplied either by the vehicle's fresh water tank or an external pressurized source. Both supply water to the sinks, lavatory tub/shower, toilet and water heater.

DEMAND WATER SYSTEM

Your travel trailer may be equipped with a demand water system especially designed for travel trailer use. Fill the tank with a garden or RV hose or by pouring water directly into the tank using the gravity water fill. On the demand water system, the 12-volt pump provides water pressure. When connected to city water, the demand system is bypassed.

CAUTION: In areas where city water pressure exceeds 60 psi, you should use a pressure regulator. Excessive water pressure may damage lines and connections.

INSTRUCTIONS FOR SANITIZING POTABLE WATER SYSTEMS

To ensure complete sanitation of your potable water system, it is recommended that the following procedures be followed on a new system, one that has not been used for a period of time, or one that may have become contaminated:

1. Prepare a chlorine solution using one gallon of water and 1/4 cup household bleach. With tank empty, pour chlorine solution into tank. Use one gallon of solution for every 15 gallons of tank capacity.
2. Complete filling tank with fresh water. Open each faucet and drain cock until all air has been released from the pipes and entire system is filled.
3. Allow to stand for 3 hours.
4. Drain and flush with potable fresh water.
5. To remove any excessive chlorine taste or odor which might remain, prepare a solution of one quart vinegar to five gallons of water and allow this solution to agitate in tank for several days by vehicle motion.
6. Drain tank and again flush with potable water.

WATER PUMP

Your water pump may have a 12-volt DC appliance, activated by a switch on the side of the bed-box. You may leave the switch on while camping. This arrangement is known as a demand system. When you want water, simply open a faucet; the pump will run only as long as needed. If the pump fails to start when the switch is ON, check the circuit breaker or fuse. If the pump continues to operate, whether the faucets are open or closed, check the water tank; it may be empty, or there may be a leak in the system. Some floor plans require a 110V water pump. Check your unit to see which you may have.

DRAINAGE/SEWER GENERAL

Your travel trailer provides a modern drainage system much like the one in your home. Drain lines from the kitchen, lavatory, and tub connect to the gray water holding tank. The marine toilet empties directly into a separate waste holding tank. The drainage system also includes roof vents which carry odors away while equalizing air pressure in the system. On some drainage systems vacuum-check valves ensure that "P" traps drain quickly, but retain the necessary water barrier to block system odors.

TOILET

Your unit may be equipped with a "self-contained" toilet, for which owner's instructions have been provided in your owner's packet.

HOLDING TANKS

A gray water holding tank is provided for kitchen sink, lavatory, and tub water. A separate black water holding tank is provided for the toilet. Holding tanks should be emptied frequently, but always into a specified dumping station. Most campgrounds are equipped with dumping stations, often at each campsite; many service stations also have waste dumping stations. Approximate capacities: 42 gallons grey and 42 gallons black. (Tank size may vary from model to model; please refer to the product specification guide and reference the floor plan)

EMPTYING HOLDING TANKS

Be certain your vehicle is level, since the emptying of holding tanks depends on gravity. Remove the cap from the termination outlet and connect the sewage drain hose. With hose connected while you are camped, you can leave the GRAY WATER dump valve open. DO NOT open the WASTE WATER dump valve until you want to empty the holding tank. The toilet is not like the one at home which uses many gallons of water to flush wastes directly into the sewer system. Instead, if the dump valve is left open, the rinse and flush water will run off, leaving the solids to collect and harden in the bottom of the tank. To drain a holding tank, pull out the dump valve slide handle. Close the valve after the tank has drained. Flush or pour about 2 gallons of water through the toilet when emptying the waste holding tank and drain again. This flushes the tank and helps clean the drain hose. Repeat as necessary. Follow the same procedure for a gray water holding tank, although repeat flushing may not be necessary. When the tank or tanks are empty, push the dump valve handles in until they seat. Remove the drain hose, wash and return it to the bumper storage holder. Replace termination outlet cap.

NOTICE:
UNDER NO CONDITION SHOULD THE CONTENTS OF THESE
TANKS EVER
BE EMPTIED BESIDE A ROADWAY,
IN A RIVER OR STREAM
WARNING!

This Travel Trailer is equipped with an ABS plastic drainage system. ABS systems have many advantages over metallic systems and with ordinary care will not deteriorate from rust, rot or corrosion. If you find it necessary to use antifreeze to protect metal or ceramic parts of this system,

DO NOT USE ALCOHOL OR ALCOHOL-BASED SOLUTIONS.

See your Travel Trailer Dealer for recommended antifreezes.

STORAGE GENERAL

Information regarding the storage and winterization of your unit is intended to supplement the instructions provided by the individual component manufacturers. Please refer to the individual manufacturers' manuals for complete instructions. The following procedures should be performed if you will not be using your unit for an extended period of time.

LP GAS SYSTEM

Close the LP gas service valve. Extinguish all pilots and close all LP gas valves. Light a range burner to consume any gas remaining in the lines. When the flame burns out, turn the range burner OFF.

WATER HEATER

Drain the water by opening the drain cock and opening all hot water faucets and the relief valve. Close all valves and faucets when water ceases to drain.

FURNACE

To shut down the furnace for storage, turn OFF the gas valve knob, the power switch, and the thermostat.

ELECTRICAL SYSTEM

Turn OFF all circuit breakers at the service box. Remove battery and store it at room temperature in a dry place. (See Winterization Section.)

NOTE: DO NOT store battery in an area where it could be exposed to extreme heat and sparks. Be sure the room is properly ventilated, since batteries give off hydrogen fumes.

WATER TANK

Turn ON water pump. Open all water faucets. Open the water tank drain valve and the hot and cold water line drain valves. When the tank is empty, close all faucets and drain valves.

WATER PUMP

When the water tank and water lines have been drained, remove the outlet hose from the pump. Turn the pump ON, allowing it to pump out any remaining water, usually about a cupful. Use towel or rag to absorb this water. If you wish to blow the lines out with air, apply the air nozzle to the system where the outlet hose has been removed. Be sure all valves are open. You can reattach the outlet hose now or later. The pump is now ready for summer or winter storage.

EXTERIOR

Store your unit in a garage or other shelter, if possible, or cover with tarpaulin or plastic. If you will not be using your "Travel Trailer" for an extended period, block it up to prevent tire damage.

INTERIOR

Close and secure all doors and windows, Open a roof vent or window slightly to allow circulation, but be certain interior damage does not occur during inclement weather.

WINTERIZATION GENERAL

You should make special preparations for storing your unit in winter. All systems, components and appliances should be inspected and repaired prior to storage. Winterize the unit before removing the batteries.

Drain the fresh water system and water heater as described in STORAGE section. Drain and rinse the holding tanks before adding antifreeze. The dump valve shaft should be inspected and lubricated if needed. After the fresh water system has been drained, close the dump valve securely. Then pour 6 gallons of approved, non-toxic RV antifreeze into the gravity water fill. This will allow you to winterize the fresh water, drainage and sewer systems, and the water heater. Follow the checklist below.

CAUTION: DO NOT use automotive antifreeze in the fresh water system; it is poisonous. DO NOT use any solution that would deteriorate plastics.

FRESH WATER SYSTEM

The fresh water system can be winterized by briefly opening all faucets and turning the pump ON with all the sink and shower drains closed. Turn water pump OFF. Water pump should be prepared as described in STORAGE section. Approximate capacity: 15-32 gallons. (Depending on model and floor plan)

WATER HEATER

The water heater can be drained by opening the drain cock and opening all hot water faucets and the relief valve. Although about two quarts of water will remain, there is ample room for expansion if it freezes. Antifreeze may be added if desired. The antifreeze may be added directly to the water heater tank or after the water system has been winterized, by opening a hot water faucet and the drain cock or plug. Close the drain cock or plug and the faucet when antifreeze appears at the drain outlet.

DRAINAGE SYSTEM

The drainage system should be winterized by removing the sink and shower drain plugs to allow antifreeze to circulate through the lines. Pour an additional 2 cups of RV antifreeze into each drain.

TOILET

The toilet should be flushed until antifreeze is present in the bowl. Pull the flush lever and insert a round object, such as a soft drink bottle into the bowl outlet. Slowly release the lever until the blade holds the object in place. This will prevent water residue from being trapped inside the bowl where it could freeze. Leave the object in place all winter.

SHOWER HEAD

The shower head should be drained and filled with winterizing solution.

LP GAS SYSTEM

The LP gas system should be prepared as described in the STORAGE section. The regulator should be covered to keep moisture out of the vent. Containers should have anhydrous methanol added by an LP supplier.

BATTERIES

Batteries should be recharged and water added, if needed. Disconnect cables and store in a cool, dry place. Check regularly and recharge as needed.

NOTE: DO NOT store batteries where they might be exposed to extreme heat or sparks. Be sure area is properly ventilated since batteries give off hydrogen fumes.

WINDOWS

The windows should be masked with newspaper or similar material to protect fabrics from exposure.

COUNTERTOPS AND CABINETS

All cabinets and countertops can be cleaned with a commercial non-abrasive kitchen cleaner.

APPLIANCES

Your refrigerator, furnace, and range should be cleaned as instructed in each appliance owner's manual.

PUSHOUTS

Lower jacks on Push out Rooms to prevent movement caused by thawing.

BODY

The body should be cleaned and waxed; locks and hinges oiled; and snow accumulation should be removed with a long-handled broom.

UNIT

The unit should be placed on wooden blocks or jack stands on a firm, level surface. Tires should be removed, partly deflated, hung on a wall, and covered to protect from sunlight.

FIRE SAFETY

Prevention is the best form of fire safety. Follow the instructions previously listed for the care, maintenance and operation of the various appliances in your vehicle. Make certain that everyone in your party is familiar with the emergency features of the unit, the locations of exits, and the location and operation of fire extinguishers. A chemical fire extinguisher has been furnished with your unit.

Follow the same rules of prevention that you would at home. DO NOT smoke in bed. DO NOT overload the electrical wiring. DO NOT use matches, candles, or lighters to look into dark closets or drawers. DO NOT leave food cooking unattended. DO NOT permit children to play with controls of LP gas or electrical appliances. DO NOT store flammable liquids inside your unit.

If a fire does start, get all members of your party outside. If it is a small fire, use the fire extinguisher. If the fire cannot be extinguished quickly, GET OUT. Close the LP gas service valve and move a safe distance from the vehicle. Call the fire department. DO NOT re-enter the vehicle until officials declare it safe to do so.

SET-UP INSTRUCTIONS FOR PUSH-OUT ROOMS

1. The trailer should be leveled and blocked before the pushout rooms are extended.
2. Remove the wood shipping block that is located on the inside of the trailer on the roof of the Push-Out. Remove the blocks on the outside of the pushout that are near the grab handles.
3. Crank the two jacks, mounted under the pushout, until the rollers are completely down.
4. Two people are required on the outside of the R.V. to pull out the pushout. Using the handles under the outside wall, pull the pushout out completely, keeping the room centered, then lift the outside wall slightly until the pushout drops into position.
5. Additional jacks should be placed under the outside corners of the pushout to support the floor. It is important that the blocks under the rooms not raise the rooms but only support extra weight when the room is used. A simple test is that you should be able to pull a slip of paper between the blocks and the bottom of the pushout room. Caution: Jacks must be positioned under the outside corners of the pushout. Jacks should be lowered in the winter due to ground movement.
6. For long-term or permanent setup it is recommended that a cement pad be placed under all blocks and jacks.

Retracting the Pushout.

1. If leveling jacks have been used on the outside corners of the pushout, remove and stow.
2. Crank the two jacks, mounted under the pushout, until the rollers raise the pushout slightly off the floor of the trailer. **Caution:** If the jacks are raised too high, the top of the pushout may bind.
3. Two people must be on the outside of the pushout. **Caution:** Each person must push on the outside corner of the pushout or creasing of the metal may occur. Center the pushout in the opening.
4. Push in the pushout until the seal meets the side of the trailer.
5. Crank up the jacks until the rollers touch the bottom of the pushout to hold it in position.
6. Reinstall the shipping blocks.
7. Remove the leveling jacks from the outside corners and stow.

APPLIANCES PARTS & SERVICE

Listed below are the addresses and phone numbers of the companies that supply the major appliances used in your travel trailer. You may contact these companies for parts and service, owner's manuals, operator's manuals or service manuals. Owner's manuals and warranty registrations are provided by each appliance manufacturer and are included in our owner's packet. The warranty cards must be filled out and sent to the manufacturer to register the warranty, and all warranty claims must be handled through the manufacturer in accordance with the manufacturer's policies.

For any changes or additions, please visit our website at: www.hylinetrailers.com

Air Conditioners

Dometic (Duo Therm)
509 South Poplar
LaGrange, IN 46761
1-800-544-4881

Awnings

A&E Dometic
509 South Poplar
LaGrange, IN 46761
1-800-544-4881

Axles

MH- Dexter Axle
2900 Industrial Pkwy
Elkhart, IN 46515
1-574-295-7888

3500/5200:

Lippert Components Inc.
2703 College Avenue
Goshen, IN 46528
1-574-535-2085

Batteries

Deka Batteries
1920 N. Kenmore
South Bend, IN 46628
1-800-237-6126

Converters

Progressive Dynamics
507 Industrial Rd
Marshall, MI 49068
1-269-781-4241

Dishwashers

Frigidaire
1-800-374-4432

Electric Jacks

Lippert Components Inc
2703 College Avenue
Goshen, IN 46528
1-574-535-2085

Entrance Doors Keys

Fastec Corp.
1-574-266-9373

Entrance Doors

Amerimax
5208 Tennyson Pkwy STE
100
Plano, TX 75024

Fans

Cherry Ceiling Fan
LaSalle Bristol, Inc.
1-800-272-4778

Faucets

Cast Products
58263 Charlotte Ave
Elkhart, IN 46515
1-800-621-2278

LaSalle Bristol, Inc.
1-800-272-4778

Dave Carter
1136 Verdant Ave.
Elkhart, IN 46516
1-574-522-2857

Fireplaces

Tape Technology
5015 Verdant Dr.
Elkhart, IN 46516
1-800-769-8273

Frames

Dexter Chassis Group
2501 Jeanwood Dr.
Elkhart, IN 46514
1-574-266-7356

M-Tec Corp.
1-574-294-1060

Furnaces

Hydro-Flame
Atwood Mobile Products
4750 Hiawatha Dr.
Rockford, IL 61103
1-800-825-4328

Furniture

MasterCraft, Inc.
711 S Poplar St.
P.O. Box 97
LaGrange, IN 46761

Holding Tanks

Travel Star
64524 CR 27
Goshen, IN 46525
1-574-533-0447

L P Regulators

Service Dist.
1-229-271-4800

L P Tanks

Service Dist.
1-229-271-4800

Leveling Jacks

Crystal Valley
1-800-507-6295

Microwaves

Dometic (Duo Therm)
509 South Poplar
LaGrange, IN 46761
1-800-544-4881

Monitor Panels

KIB Enterprise
53402 CR 13
Elkhart, IN 46514
1-574-262-0518

Power Slides

Dexter Chassis Group
2900 Industrial Pkwy
Elkhart, IN 46516
1-574-295-7888

M-Tec Corp.
1-574-294-1060

Ranges

RV- Atwood Mobile Products
4750 Hiawatha Dr.
Rockford, IL 61103
1-800-825-4328

PM- Brown Stove Works, Inc.
1422 Carolina Ave.
Cleveland, TN 37311
1-800-251-7224

Refrigerators

Amana/Whirlpool
1-866-698-2538

Dometic

1-800-544-4881

Rubber Roofs

Dicor Corp.
58278 Airport Parkway
Elkhart, IN 46516
1-574-264-2699
1-800-837-2059

Steps

Hickory Springs

Stereos DVD CD

Tri Star Distributing
64873 Lombardy Drive
Goshen, IN 46526
1-574-534-2119
1-800-456-3340

ASA Corp
2700 Marina Dr.
Elkhart, IN 46514
1-574-264-0792

Tires (3500#)

Tredit Tire Wheel Co, Inc.
57941 Charlotte Ave
Elkhart, IN 46517
1-574-293-0581

Toilets

SC- Dometic Corp.
1-800-544-4881

PM- Dave Carter
1136 Verdant Ave.
Elkhart, IN 46516
1-574-522-2857

Tubs/Showers

UltraGlas of Lakeville, Inc.
520 Industrial Drive
PO Box 407
Lakeville, IN 46536
1-574-784-8958

ABS- Cast Products
58263 Charlotte Ave
Elkhart, IN 46515
1-800-621-2278

TV Antennas

Antenna Tek, Inc.
425 S. Bowen #4
Longmont, CO 80502
1-303-772-9591
1-888-349-8303

Washers and Dryers

General Electric
Any Authorized Service Center
1-800-432-2737

Water Heaters

20 gal. electric
Rheem Tank
2600 Gunter Park Dr. East
Montgomery, AL 36109
1-800-933-3337

16 gal. gas/electric
Atwood Mobile Products
4750 Hiawatha Dr.
Rockford, IL 61103
1-800-825-4328

10 gal. gas/electric
Suburban Mfg. Co.
676 Broadway Street
PO Box 399
Dayton, TN 37321
1-423-775-2131

Water Pumps

Shurflo, Inc.
5900 Katella Ave
Cypress, CA 90630
1-800-854-3218

Windows

Cleer Vision Window
3401 CR6 East
Elkhart, IN 46514
1-574-262-0449