

83-84



# VIKING<sup>RV</sup>

## Owner's Manual





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## INTRODUCTION

### GENERAL

Now that you've purchased your new Viking, you're anxious to start on your first trip. And we want you to. Viking and your authorized dealer have cooperated in providing the means for a quick getaway; Viking by designing and building your unit to rigid standards and thoroughly testing it at the factory, and your dealer by a careful retesting of systems and an inspection prior to delivery to you. Yet, after all that, we're going to ask you not to make a hasty departure. Because we want you to enjoy every trip, whether it's over night, a weekend or season-long excursion, we first want you to get to know your unit and make careful preparations. That's why you'll find more than operating and maintenance instructions in this manual. You'll also find tips and suggestions to help you get started. There also are numerous illustrations for easy identification of the various components.

*NOTE: This manual combines the camping trailer and truck camper products. The information contained herein may apply to both, we suggest that you read the entire manual.*

An overnight or weekend "shakedown" trip can help RV'ing novices become familiar with their unit and its systems and appliances. The experience gained and the hints other RV'ers are usually eager to share will help make future RV'ing more enjoyable. Although you purchased your unit with certain standard and/or optional equipment, you may wish to add other accessories later. Experience is invaluable in determining which additional items, if any to choose. Remember, your Viking dealer will assist you in every way possible.

## TOW VEHICLE SELECTION

### GENERAL

Selection of an adequate tow vehicle is essential. If you plan to use an automobile or truck you already own, contact the vehicle manufacturer or representative for information. If you will be purchasing a new tow vehicle, be certain to tell your dealer the type and size of the RV you will be towing.

### ENGINE SIZE

The engine size must have enough horsepower to handle the tow vehicle, passengers, Viking unit and all its cargo. Most automotive manufacturers offer a trailer towing package which may include: larger alternator and battery, heavier ply tires, sideview mirrors, heavier electrical wires, larger engine and transmission cooling systems. Consult the tow vehicle manufacturer's owner's manual for recommendations.

*NOTE: The use of heavier suspension components (springs, shocks, axles) or heavier ply tires DOES NOT increase the weight ratings printed on the two vehicle's identification or certification plate. The Gross Axle Weight Rating (GAWR) of the axle is determined by the components within the axle system with the lowest load carrying capacity.*

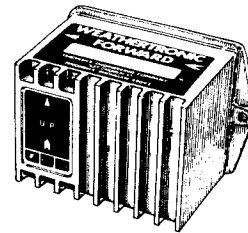
## LOAD CARRYING HITCH REQUIREMENTS

Your camping trailer fits a 2" hitch ball. Ask your Viking dealer about the proper Class of load-carrying hitch to use. The selection of the hitch is important since it affects towing and handling characteristics. Read the information supplied by the hitch manufacturer to achieve best possible performance. The hitch weight for your unit is listed in the sales brochure; be certain your tow vehicle can carry the hitch weight.

*NOTE: Installation of a Weight-Distributing (Load-Equalizing Hitch is NOT recommended on any vehicle towing a camping trailer.*

## BRAKE CONTROL AND VEHICLE OPTIONS

The electric brake controller — available only on models with electric brakes — automatically activates the brakes on your camper whenever the tow vehicle decelerates. It provides braking effort directly proportional to the braking action of the tow vehicle.



**ELECTRIC  
BRAKE  
CONTROLLER**

Air conditioning, automatic transmission, power brakes, power steering and cruise control are features that could make your trips more enjoyable.

## LICENSES

The vehicle licensing laws vary from state-to-state. Check with your license bureau or nearest branch office for the requirements in your state. Be sure to renew your driver's license if it has or will expire during your trip.

## INSURANCE

Personal liability, property damage, collision and theft of contents may be features of your automobile policy, which apply to your Viking unit. Contact your insurance agent about details of your coverage. Always carry your policy card.

## TRAVEL PREPARATIONS

### GENERAL

Determine the various items of equipment, clothing, food and other supplies required for the length and destination of your journey. In a subsequent section, the importance of proper loading is explained, but at this stage you're more concerned with a quick getaway. One way to reduce loading time is to purchase dinnerware, flatware, pots and pans and towels which can remain in your unit at all times. After a trip, clean and launder the articles and replace them in your RV, ready for your next trip. The following is a guide to help in your travel preparation.

## IMPORTANT DOCUMENTS

Carry your vehicle registration and insurance policy card(s). If you are borrowing a vehicle, you should have a notarized letter of authorization from the owner with you.

## SAFETY

Flares and reflectors; flashlights; first aid kit; tow rope and/or chain.

## EQUIPMENT

Fresh water hose (garden) and bucket; "Y" type water hose fitting; 20-foot 3-prong power cord; 3-prong adapter with grounding wire; fuses, wheel chocks, leveling ramp or blocks.

## TOOL CHEST

Include an assortment of wrenches and screwdrivers, pliers, hammer, tire pressure gauge, small level, electrical and masking tape.

## ADDITIONAL TOOLS

Hatchet, saw, shovel and 12-volt portable tire pump.

## CLOTHING

Compile a clothing list for each person. Consider the season and areas through which you intend to travel. Basic articles: underwear, socks, footwear, shirts, blouses, trousers, slacks, dresses, shorts, sweaters, jackets or coats, rainwear and swim suits.

## SLEEPING GEAR

Sleeping bags are ideal for cold climates, but sheets and blankets are better suited for warm weather. Take along an extra blanket or two for sudden drops in temperatures, such as can be expected in mountain areas even during summer. Be sure to take pillows, pajamas and mattress pads, if normally used.

## CAMP HYGIENE

Dishsoap, dishcloths and dishtowels; garbage and trash bags; mop, broom and dustpan.

## PERSONAL HYGIENE

Toilet paper, soap, washcloths, towels, toothbrush, toothpaste, deodorant, and shaving kit.

## FOOD AND WATER

Don't try to take a food supply for an extended trip. Take enough for two or three days and replenish supplies along

the way. Take a basic supply of seasonings; sugar, salt, pepper and spices. Plan meals so that fresh or refrigerated items are used before they spoil. Fill your fresh water holding tank before leaving.

## MEAL PREPARATION

Bottle cap and can opener; matches, lighter or igniter device; pots, pans, plates, glasses, and cups (paper or plastic are lighter and less likely to break while the vehicle is in motion); silverware and carving knife.

## ENTERTAINMENT

Take along games, toys, books, magazines or other items of entertainment to occupy passengers while traveling or in case you encounter inclement weather.

## PRE-TRAVEL CHECK

### GENERAL

Whether departing from your home, rest area, or campsite, you should perform these pre-travel checks inside and outside your camper.

**CANVAS** — You should condition the canvas on your camping trailer before your first trip. Set up the camper and spray with water. Allow the canvas to dry and then spray again. This will expand the thread inside the stitch holes. While camping, a leaky seam may be sealed by rubbing it with candle wax. Be sure canvas is dry before closing camper.

**TIRES** should be inspected before each trip. Replace a tire when it is worn to 1/16" depth in two or more adjacent grooves, or to the level of tread indicators molded into the bottom of the tread grooves, when the indicators appear in two or more adjacent grooves at three locations around the tire. Check tire for uneven wear, road damage, foreign objects or excessive peeling or bulging. When purchasing a new tire, be certain it is the same size and has the same ply rating and load range as the old tire. **DO NOT** mix radial ply with bias or bias-belted tires.

Each morning inspect tire condition and pressure on your RV and tow vehicle. Heat generated by surface friction will increase the tire's air pressure approximately 6 to 9 psi; therefore, do not bleed air out of a hot tire. Inflate to recommended pressure as indicated on tire or in tire manufacturer's instruction booklet.

*NOTE: Proper tire inflation is extremely important.*

**WHEEL LUGS** must be tightened before departure, then every 50 miles for the first 200 miles during your in-

**WARNING: BE FAMILIAR WITH THIS MANUAL BEFORE YOU TAKE YOUR FIRST TRIP; READ WARNINGS ON LP GAS SYSTEMS PAGE 15-17.**

initial trip and after each tire change. Thereafter, tighten lugs periodically and before using unit after a storage period.

**WHEEL BEARINGS** — See **MAINTENANCE** section.

**HITCH** should be inspected to be sure it has not loosened.

**FRONT JACK** must be raised as far as possible.

**DOLLY WHEEL** must be removed and stored.

**LP GAS BOTTLES** and connections should be secured and the Service valve closed.

*NOTE: Some states prohibit vehicles equipped with LP gas bottles from using tunnels. A few other states prohibit traveling with the service valve open. Check the regulations of the states through which you intend to travel.*

**SAFETY CHAINS** must be properly attached to the tow vehicle.

**STABILIZING JACKS** should be removed and stored.

**PIGTAIL** should be properly connected to the tow vehicle's electrical harness.

**LIGHTS** should be tested on the Viking RV unit and the tow vehicle, including brake lights, turn signals, warning flashers, clearance lights, taillights and tow vehicle headlights. Be sure interior lights are turned off before lowering the roof.

**REARVIEW MIRRORS** should be adjusted so the driver can see both sides of the unit.

**POWER CORD** (120-volt Shoreline) must be unplugged from the external source, pushed into its compartment and the cord hatch secured.

**WATER FILL** hoses must be disconnected and the caps secured.

**DRAIN OUTLET** hose must be disconnected and the cap secured.

**VENTS** should be closed and secured.

**INTERIOR DOORS AND DRAWERS** should be closed and secured. Loose items should be lashed down or stored away.

**UPPER DOOR** must be disengaged from the lower door and secured by the ceiling turn buttons.

**REFRIGERATOR OR ICE BOX DOOR** should be secured with the travel latch.

**HINGED GALLEY CABINET** must be lowered and hand pump screwed down securely to avoid interference with the bunk tray.

**BUNK TRAYS** must be pushed in. Store bunk support rods (Figure A, page 13) and bunk bows (page 10).

**EXTERIOR ACCESS DOORS AND HATCHES** for storage and equipment should be closed and locked.

**STEP** must be stored for traveling. Lift outer edge of step and unhook, fold and store.

**ROOF** should be lowered and the latches secured.

**BOAT RACK** — If your unit has a boat rack, the weight

of the boat is not to exceed 135 lbs. Place the boat, with the bow facing forward, upside down on the boat rack and lash down securely so boat will not shift, causing damage to the rack. DO NOT attempt to raise the roof with the boat on the rack.

**DOOR** should be locked.

## TOURIST INFORMATION

Obtain current road maps and tourist information from each state through which you intend to travel. You also may want to purchase a tourist guide book.

If you will be visiting federally operated national parks, monuments and recreation facilities, you may wish to look into the Golden Age Passport and the Golden Eagle Passport. They can help families cut spending at those areas where fees are involved.

**GOLDEN AGE PASSPORT** — The Golden Age Passport is a free lifetime pass for persons 62 and over and covers all admission fees and a 50 percent discount on use fees (except fees charged by private concessionaires). It may be obtained only at park service offices and at parks where entrance fees are charged. It cannot be obtained by mail or at post offices. To obtain a Golden Age Passport you will need proof of age, such as a driver's license, or be prepared to sign an affidavit swearing that you are 62 or over. **NOTE:** Medicare cards are not accepted since in some cases they are issued to younger persons.

**GOLDEN EAGLE PASSPORT** — The Golden Eagle Passport costs \$10 and is designed for persons who plan to visit several parks or federally operated facilities in a single year. It covers all admission charges, but does not cover use fees and is good only during the calendar year in which it is issued. It may be purchased in person or by mail at the National Park Service headquarters, Department of the Interior, Washington D.C. 20240; at regional offices and at facilities where entrance fees are charged.

Both the Golden Age and Golden Eagle Passports cover admission fees for the permit holder and any persons accompanying him or her in a private vehicle. Where entry is not by vehicle, the passport covers the permit holder and members of his or her immediate family.

## HOME SECURITY

Make arrangements for someone to check your house periodically. Stop mail and newspaper delivery. If you intend to be away for more than 2 weeks, request police surveillance. Carry an extra set of vehicle and house keys on a separate key ring.

## TOWING HOOKUP COUPLER

Crank the front jack (Figure 1, page 13) clockwise to raise the coupler above the hitch ball. Maneuver the tow

vehicle to position the ball directly under the coupler.

Raise the coupler lever to its fullest extent (Figure 2). Crank the front jack counterclockwise to lower the coupler onto the hitch ball. Secure the connection by pushing the coupler lever down. For theft protection, you may purchase a padlock or similar locking device to insert through the coupler lever holders. After attaching the coupler to the hitch ball, adjustments may be necessary to eliminate hitch rattle. This is done by tightening the coupler adjustment nut located beneath the coupler (Figure 3, page 13).

## FRONT JACK

Turn the front jack counterclockwise until the dolly wheel is off the ground. Turn the dolly wheel shaft (Figure 4) counterclockwise and pull downward until the shaft releases, remove and store. Continue turning the crank until the front jack is as high as possible to prevent it from hitting the ground while you are traveling.

## SAFETY CHAINS, ELECTRICAL CONNECTION

Cross the safety chains under the "A" frame and attach them to the tow vehicle's hitch platform. Plug the tow vehicle's electrical harness into the camper's pigtail connection (Figure 5). Leave enough slack in the chains and pigtail to permit the unit to turn freely. Safety chains should not be touching the ground.

## HITCH BALL HEIGHT

When the loaded trailer is hitched to the tow vehicle, check the hitch ball height. It can be determined by measuring from the top of the curved portion of the coupler to the ground (Figure 6, page 13). A high hitch will transfer weight behind the axle, causing the unit to fishtail. A low hitch will transfer additional weight to the hitch. See APPLIANCE IDENTIFICATION FORM section for proper hitch ball height.

## FEDERAL STICKER

Found on the road side of your camping trailer, the Federal Sticker lists the Viking Serial Number, the Gross Axle Weight Rating (GAWR) and the Gross Vehicle Weight Rating (GVWR). Your tow vehicle also will have a Federal Sticker. The ratings are for the specific rim and tire sizes, which are listed.

MFD BY **VIKING**  
RECREATIONAL VEHICLES INC.

GVWR \_\_\_\_\_  
GAWR FRONT \_\_\_\_\_ WITH \_\_\_\_\_ RIMS.  
AT \_\_\_\_\_ POSITION \_\_\_\_\_

THIS VEHICLE CONFORMS TO ALL APPLICABLE  
FEDERAL MOTOR VEHICLE SAFETY STANDARDS  
IN EFFECT ON THE DATE OF MANUFACTURE  
SHOWN ABOVE.

VEHICLE ID. NO. \_\_\_\_\_  
TYPE: TRAILER

**SAMPLE**

## DEFINITIONS

**GAWR** — The allowable weight, including cargo, which can safely be supported by the axles.

**GVWR** — The maximum permissible weight of your unit, all options, passengers and cargo.

**GVW and GAW** — are found by weighing the vehicle fully loaded. GVW is the actual weight of the unit and all standard and optional equipment, cargo and passengers. GAW is the portion of the fully loaded vehicle which is transferred to the axle.

You can weigh your vehicle at a grain elevator, sand and gravel dealer or government weighing station (they are listed in the yellow pages of your telephone book). The small fee involved is a worthwhile investment.

## LOADING GENERAL

Distribute your cargo evenly from side to side and front to back. Store heavier items on or close to the floor. Lighter items may be stored in cabinets and drawers. A properly loaded unit will handle more safely. You also will conserve gasoline and prevent excessive wear on your tow vehicle's automotive system if the unit is not overloaded.

## WEIGHT DETERMINATIONS

It is extremely important that you weigh your unit prior to leaving on a trip to determine whether your cargo load is within the allowable limits for the various suspension components of your Viking unit and tow vehicle. Check the Gross Axle Weight Rating (GAWR) and the Gross Vehicle Weight Rating (GVWR) found on the Federal Stickers of the tow vehicle and Viking unit.

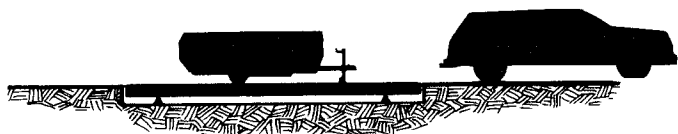
## WEIGHING

**STEP 1** — The Gross Axle Weight of the Viking camping trailer is extremely important. The unit should be weighed, fully loaded for a trip and connected to the tow vehicle. If the GAW exceeds the GAWR listed on the Federal Sticker, shift or remove cargo to achieve proper tolerance.



**STEP 2** — You can find the Gross Vehicle Weight of the Viking unit by weighing it fully loaded, disconnected from the tow vehicle, with the axle and front jack on the scale. If the figure exceeds the listed GVWR on the

Federal Sticker, remove cargo to achieve proper tolerance.



**STEP 3** — You can find the hitch weight by deducting the GAW (determined in Step 1) from the GVW (found in step 2). If the hitch weight exceeds 15% of the GVW of the Viking unit, move part of the cargo toward the rear. If it is less than 10% move part of the cargo toward the front. Be sure, also, not to exceed the load rating of your hitch.

**CAUTION:** Extending the rear bumper or adding rear supports to carry tool boxes, bikes, motorcycles or other heavy equipment may seriously overload the trailer brakes, axle, wheels and tires. In addition, rear-end loads reduce the hitch weight and can cause severe fishtailing. **NEVER EXCEED THE GAWR FOR YOUR UNIT. NEVER TOW WITH LESS THAN 10% OF THE TRAILER GROSS WEIGHT ON THE HITCH.**

## TRUCK CAMPER MODEL VEHICLE SELECTION

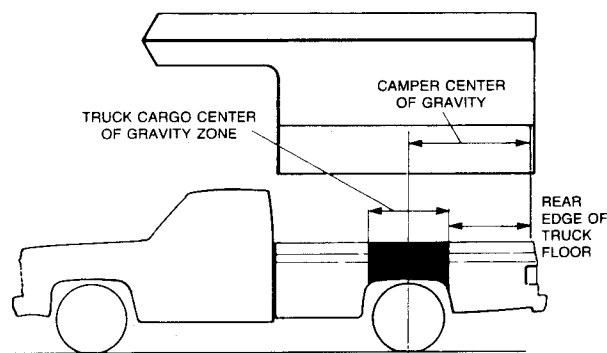
The proper combination of pickup truck and slide-in camper requires a proper match between the truck itself, and the size and center of gravity of the camper being loaded. When considering the purchase of a pick-up camper, decide first on the size, weight and configuration of the camper you want to buy. Then discuss your requirements with your vehicle dealer and select the model pick-up that fits your needs.

If you already own a pickup truck that is capable of carrying a slide-in camper, base your slide-in camper purchase on the gross vehicle weight rating (GVWR) and the gross axle weight ratings (GAWR) of the truck, curb weight of the vehicle, the weight of the loaded camper, weight of truck passengers, and the recommended location for cargo center of gravity on the pick-up. If the loaded weight, plus the curb weight of the truck and weight of passengers exceeds the truck GVWR, or if the camper weight plus curb weight with passengers exceeds the GAWR on either front or rear axle, choose another camper.

If you are planning to adapt an older pickup truck for use with a slide-in camper, consult your vehicle dealer to be certain such modifications are adequate.

To estimate the total cargo load that will be placed on a truck, add the weight of all passengers in the camper, the weight of supplies, tools and all other cargo, the weight of installed additional or optional camper equipment, and the manufacturer's camper weight figure. Select a truck that has a cargo weight rating that is equal to or greater than the total cargo load of the camper and whose manufacturer recommends a cargo center of gravity zone

that will contain the camper's center of gravity when it is installed.



SL 8 .....	58"
SL 7 .....	55"

## CAMPER CENTER OF GRAVITY

## ENGINE EXHAUST

Make sure the vehicle tailpipe is long enough to deliver the exhaust well out from under both the truck body and the overhanging camper unit, or out to the side into the airstream. Periodic inspection of all exhaust system components also is very important to prevent possible asphyxiation to passengers.

**CAUTION:** When filling your truck's fuel tank(s), be certain that all burner and pilot lights are out and the LP gas bottle Service Valve is closed.

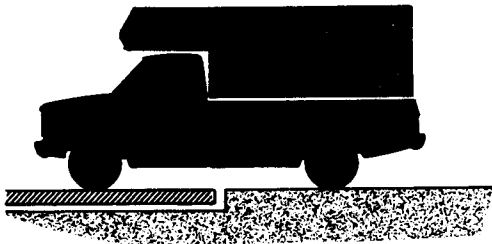
**NOTE:** For Truck Camper loading/unloading information see page 7.

## LOAD DISTRIBUTION

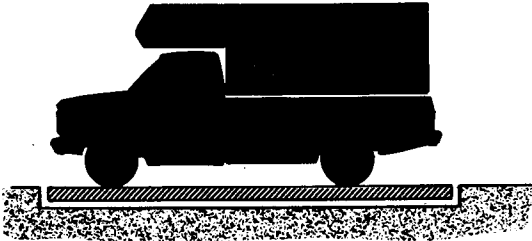
When loading this camper, store heavy gear first, keeping it on or close to the camper floor. Place heavy things far enough forward to keep the loaded camper's center of gravity within the zone recommended by the truck manufacturer. Store only light objects on high shelves. Distribute weight to obtain even side-to-side balance of the loaded vehicle. Secure loose items to prevent weight shifts that could affect the balance of your vehicle. When the truck camper is loaded, drive to a scale and weigh on the front and rear wheels separately to determine axle loads. The load on an axle should not exceed its gross axle weight rating (GAWR). The total of the axle loads should not exceed its gross vehicle weight rating (GVWR). These weight ratings are given on the vehicle certification label that is located on the left side of the vehicle, normally the dash panel, hinge pillar, door latch post, or door edge next to the driver on trucks manufactured on or after January 1, 1972. If weight ratings are exceeded, move or remove items to bring all weights below the ratings.



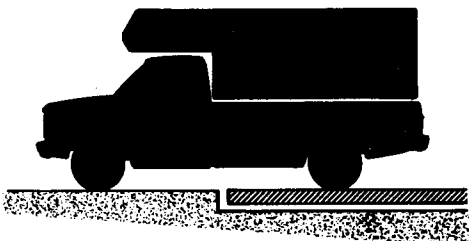
## TRUCK CAMPER LOADING/UNLOADING



WEIGHING THE FRONT AXLE



WEIGHING LOADED TRUCK & CAMPER



WEIGHING THE REAR AXLE

A properly loaded vehicle will handle more safely, will conserve fuel, and prevent excessive wear on your pick-up's automotive system. You may want to allow cargo space for purchases which you may make during your travels.

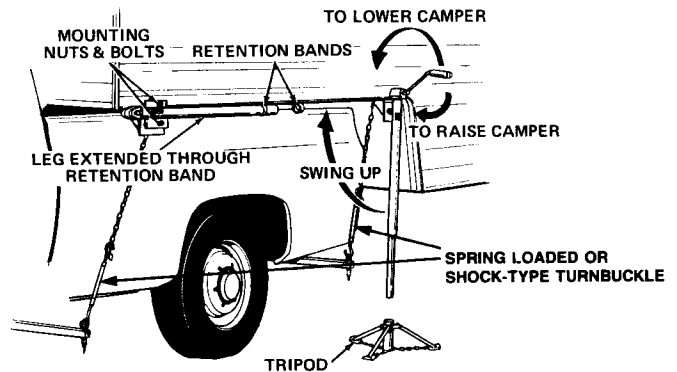
### CERTIFICATION

See camper certification label (located on camper's rear exterior surface) for month of manufacture and for the Vehicle Identification Number (VIN). This camper conforms to all applicable Federal Motor Vehicle Safety Standards in effect on the date of manufacture. The weight of standard equipment is included on the label.

MFG. BY: **VIKING RV COMPANY** DATE: \_\_\_\_\_

THIS CAMPER CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

CAMPER WEIGHT IS \_\_\_\_\_ LBS. MAXIMUM WHEN IT CONTAINS STANDARD EQUIPMENT. \_\_\_\_\_ GAL. OF WATER, \_\_\_\_\_ LBS. OF BOTTLED GAS AND \_\_\_\_\_ CUBIC FT. REFRIGERATOR (OR ICE BOX WITH \_\_\_\_\_ LBS. OF ICE, AS APPLICABLE). CONSULT OWNER'S MANUAL (OR DATA SHEET AS APPLICABLE) FOR WEIGHTS OF ADDITIONAL OR OPTIONAL EQUIPMENT. SERIAL NO. \_\_\_\_\_



### CAMPER LOADING/UNLOADING

Raise the camper floor above the level of the pick-up's bed by turning the jack cranks clockwise. Raise each jack no more than 4 inches at a time. When the camper floor clears the truck bed, slowly back under the camper. If the camper begins to move, stop immediately and locate the problem. When the truck is under the camper, lower each jack (no more than 4 inches at a time) successively until the camper rests firmly on the truck bed. Crank the jacks until they clear the tripods, then remove, fold and store the tripods.

The quickest way to secure the leg for travel is to loosen both mounting nuts; remove one of the bolts, swing the leg up and extend it through the band. Tighten the loosened nut and replace and tighten the other nut and bolt. However, this method places the leg at an angle which can allow water to enter the leg and eventually damage the jack lift mechanism. To help avoid this, remove both mounting nuts and bolts and shift the jack plate to align with the mounting plate hole nearest the retention band. Insert a bolt through the hole and hand-tighten the nut, then swing the leg up and extend it through the retention band. Replace the other bolt and tighten both nuts.

The truck camper must be secured with either a spring loaded or rubber cushioned turnbuckle only, these are available from your dealer. The use of a rigid fastener could cause undue strain on the body of the camper. When loaded, plug the electrical connector into the camper's pigtail socket (Figure 7, page 13).

To unload, unplug the pigtail connector and release the truck camper fasteners (be sure to select a firm level site). Retract the jack legs from the retention bands and replace in proper position on the mounting plates. Crank the jacks clockwise until the leg is completely lowered into the tripod. Continue to raise the jacks (not more than 4 inches at a time) until the truck camper clears the pick-up truck bed. Slowly drive the truck away from under the camper. If the camper begins to move, stop and locate the problem. Once clear, lower each jack successively to its lowest position. DO NOT attempt to lower the jacks beyond the built-in stop; you may damage the gears.

**CAUTION:** The loading jacks are designed only to permit you to raise or lower the truck camper for placing

*it onto, or removing it from, the pick-up truck bed. DO NOT occupy your truck camper when it is off the pickup truck bed, unless you have made sufficient arrangements to ensure the stability of the camper.*

## DRIVING

### GENERAL

Your camping trailer has been built to make towing easy, but get to know how your tow vehicle handles with added weight and length of your Viking unit. Before leaving on a trip, practice turning, backing, braking and accelerating. You may find a little difference in the operation, but remember to allow extra room for the combined length of the tow vehicle and Viking unit. The following are tips to help you in your driving.

### PULLING INTO TRAFFIC

Check for oncoming traffic in all directions. Signal before entering the traffic flow. Accelerate slowly and smoothly.

### TURNING

Pull several feet farther into the intersection before turning to allow sufficient clearance for the rear of your Viking unit.

### PASSING

Avoid sudden maneuvers when passing another vehicle. Remember that additional time and distance are required to pass safely. Wait until the road is clear of oncoming traffic for at least ½ mile. Check the outside rear-view mirrors and signal lane change and return to your original lane.

### BRAKING

Allow a safe distance to stop; follow no closer than one combined tow vehicle-Viking unit length for each 10 mph. Pump the brake pedal lightly to stop on wet or icy roads. If you start to slide, turn the steering wheel in the direction of the slide. DO NOT tromp the brake pedal — a panic stop may increase the slide and could cause your unit to jackknife. Do not rest your foot on the brake pedal while driving. "Riding" the brakes in this manner may cause overheating, excessive lining wear and possible brake failure.

### UPGRADES

Reduce speed when climbing a steep upgrade. Shift the transmission to a lower gear to avoid engine overheating. If your engine does overheat, consult your tow vehicle owner's manual.

### DOWNGRADES

Speed should be reduced; shift the transmission to a lower range to assist in braking on long or steep downgrades.

## EMERGENCY STOPPING

DO NOT slam on the brakes if the coupler disconnects from the hitch — the camper may strike the tow vehicle. Steer toward the shoulder of the road and gradually reduce speed. The safety chains, which must be crossed under the coupler and hooked to the hitch platform, will prevent the tongue from dropping to the road.

## SWAYING OR FISHTAILING

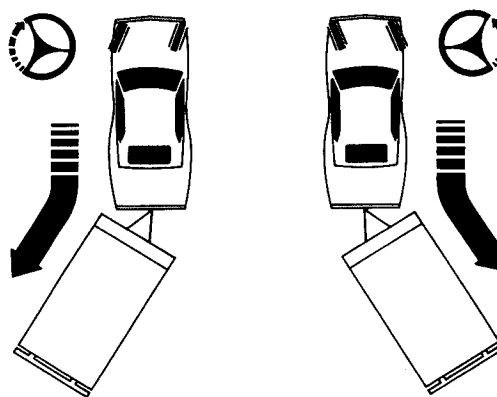
If your unit sways or fishtails, accelerate, then gradually slow down. If you have an automatic brake controller, apply only the brakes of your camping trailer. If your unit is still swaying, pull off the road and check tire pressure, cargo location, or tow vehicle front end alignment, suspension and lug nuts.

## PARKING ON A GRADE

Parking vehicles on a grade is not recommended. If it is necessary, apply the brakes and have a passenger place wheel chocks against the tires of your Viking unit. When in place, slowly release brakes until unit is stopped by chocks. Apply parking brake and place transmission in park position (place in gear for stickshift vehicles).

## BACKING

When backing your camping trailer, place your right or left hand at the bottom of the steering wheel. To move your trailer to the left, move your hand to the left; to move the trailer to the right, move your hand to the right. If the trailer starts to jackknife, stop, pull forward and start again. You may want to station someone behind the unit to help guide you.



## FREEING A STUCK VEHICLE

To pull your unit out of the mud, sand or snow, apply light pressure on the accelerator pedal and move the gear selector rhythmically between 1st gear and reverse. If possible, keep front wheels pointed straight ahead. Avoid sharp turns which could cause the unit to jackknife. Once you start to move, do not stop until the tow vehicle and camping trailer are on firm ground.

## CHANGING A TIRE

Change a tire on as level and firm a surface as possible. If you are on the roadside, activate the unit's hazard warning flashers. Set up flares and/or warning lights. Block opposite tire. Place scissors-type or hydraulic jack on a block of wood directly **UNDER THE FRAME**, just behind the axle. **DO NOT** use a bumper jack; it may damage the sidewalls or the floor board. Raise the jack to take some of the weight off the old tire. Loosen the lug nuts. Raise the jack until the tire is off the ground then remove lug nuts, and pull off old tire. Place new tire on hub. Replace lug nuts and hand-tighten. Lower the jack until the tire just touches the ground. Firmly tighten lug nuts. Lower and remove jack. Stop at the nearest service facility and have the torque checked. Lug nuts should have a torque of 70 to 80 ft.-lbs.

## CAMPING

### CAMPSITE SELECTION

Because of the rapidly growing number of recreational vehicles, some campgrounds do not accept reservations, but make one whenever you can. If possible, arrive early so you may inspect and choose a site during daylight hours. Try to avoid sites near a swamp, stream or other bodies of water which may harbor mosquitoes or other insects. Avoid parking under dead trees or loose limbs which might fall and cause injury or damage. Stay away from areas which show signs of flash flooding. **DO NOT** park on private property without first obtaining permission.

### COURTESY

Campsites are often close together and the walls of your camper are not a barrier against loud noises, which may disturb your neighbors. Follow the posted rules of the campsite. Open fires may not be permitted. If you can build a campfire, clear the area of flammable materials; never leave a campfire and make certain the embers are completely extinguished.

## LIVING AREA

### SETUP/CAMPING TRAILER

Of course you'll want your camping trailer to be level for your own comfort (you don't want items sliding off counters and tables or out of cabinets). But more important, the unit must be level in order for your drainage system, which relies on gravity, to function properly. Place a small level on the roof of the unit to check levelness. Bubble levels are available from your Viking dealer.

*NOTE: Once the unit is level side-to-side and front-to-back, you may wish to permanently attach levels on the front and/or back and sides of the camping trailer. This will allow you to tell at a glance if you've stopped on a level site, and will help speed up the leveling process.*

Check the camping trailer levelness from side-to-side. If it is off level more than 2", you may make a step level-

ing ramp (Figure 6) using 1" x 6" or 2" x 6" boards of varying lengths. Pull forward or back onto the leveling ramp until the tire on the low side is level. If the unit is off level less than 2", levelness can be achieved by adjusting the stabilizing jacks. You will have two or four stabilizing jacks, depending on the unit.

To install stabilizing jacks and level the trailer front-to-back, unhitch the trailer from the tow vehicle. Install the dolly wheel and crank the front jack down. Never rest the unit on the front jack without the dolly wheel attached, or without a board under it. If the ground is soft, also place a board under the dolly wheel. The jacks must be placed under the frame. Lower the front about 2" below level. Place a jack under each main frame member — **NEVER THE FLOOR** — at the rear of the trailer. Raise each jack until it touches the frame. If you have four stabilizing jacks, raise the front jack about 2" above level and place jacks under the main frame members near the front of the unit. Check levelness from front-to-back and side-to-side. If the unit is off level, adjust the appropriate stabilizing jacks.

## RAISING THE ROOF

### Crank Lift System

Information & Illustrations — See Page # 12

### Multiplex Lift System

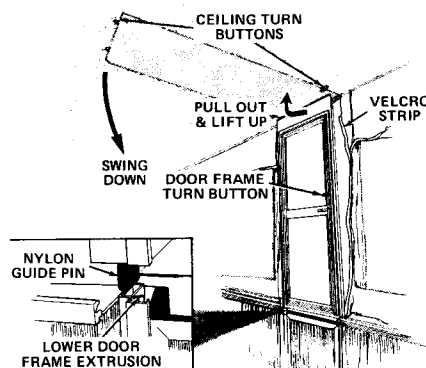
Information & Illustrations — See Page # 11

### Truck Camper Lift System

Information & Illustrations — See Page # 12

## DOOR

The lower portion of the door must be closed for proper assembly. From inside the unit, release the ceiling turnbuttons and gently lower the upper portion of the door to vertical position. Pull inward on the top and lift; the door will bend at the hinged plate on top. Position the bottom of the upper door directly over the lower door and insert the nylon guide pins into the lower door slots. Push outward on the top of the upper door frame until the hinged plate is flat. Secure in place with turnbuttons on the sides of the hinge plate. Release the turnbuttons on the right side of the upper door frame to open the door. Attach the snaps and velcro strips on the canvas to those on the outside portion of the door frame.

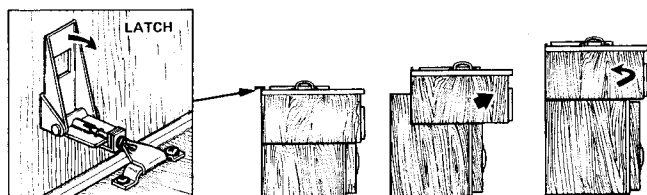


## WARDROBE

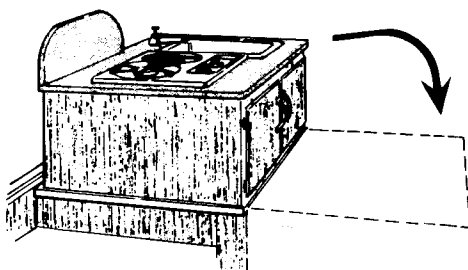
Lift the wardrobe and carefully slide it toward the outside wall to an upright position. Position it on top of the storage cabinet and secure in place with the cam lock located on the rear of the wardrobe.

## GALLEY

**GALLEY SETUP** — You may have a pullup or hinge galley. For the pullup, release safety latch located in the center of the counter, lift and pull forward then push into position.

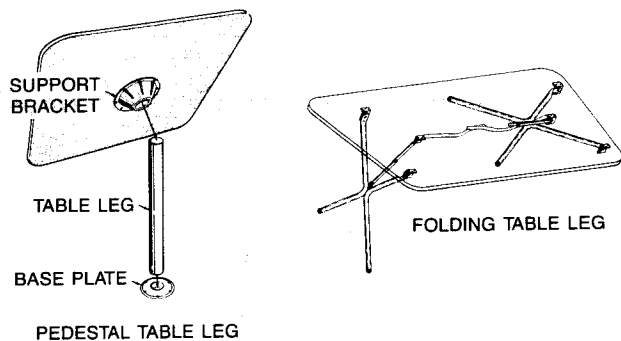


The hinge galley simply swings down for travel and up for use.



## TABLES

**FOLDING LEG TYPE** — Lift table from seat braces, loosen hook and loop tape, pull table legs down until position engaged. Place where desired.

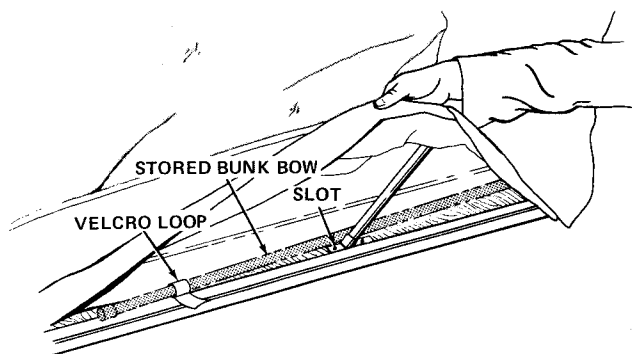


**PEDESTAL TYPE** — Insert table leg into the base plate. Lower table support bracket onto the leg. NOTE: Your camper may have one or two table legs according to the model.

## SLEEPING ARRANGEMENTS

**SLIDE OUT BUNKS** — Remove the bunk support rods from the storage compartment (Figure A). From the outside grasp the bunk tray, lift slightly and pull outward until the bunk is completely extended. Insert one end of each rod into the sockets on the trailer frame. Slightly lift the

edge of the bunks until the end of the support rod can be inserted into the tongue of the bunk support plate. Turn top w/snaps to lock in place. (See page 11). Do not allow the bunks to hang unsupported.



**BUNK BOW** — From outside the unit, reach beneath the canvas and pull the bunk bow toward the end of the unit until the vertical canvas is tight. Be sure to keep the corner of the bunk bow in the corner of the tent. Place the bow ends in to the appropriate slot on the tray. Loop the shock cord around the nylon rollers or attach to flap on opposite side to provide a weather tight seal. **However, as the canvas is permanently attached to the bunk on the outer edge only, do not place small children or infants in bunk area without providing adequate protection around open edges.**

**FOLDING DINETTE SEATS** — Fold legs and secure with straps. Lower table onto seat braces. Arrange cushions on top for additional sleeping capacity.

**VINYL WINDOWS & SCREENS** — Unzip vinyl windows to permit ventilation. Roll vinyl and secure in place with snap-end straps.

**SIDE DRAPES** — Some models require a shock cord retainer on the off-door side to keep curtains from blowing over the stove area. If shock cord is included, hook "S" hook in end loop, then thread other end of shock cord through the bottom hem of drape, through center loop and through bottom hem of the other drape. Hook into tent loop at this point. Refer to package instructions for diagram.

## INTERIOR MAINTENANCE

**CANVAS** — Your unit will be equipped with canvas flaps for privacy. The canvas flaps may be rolled up and secured with snap-end straps.

**CARE OF CUSHION COVERS** — Vacuum cushion covers as needed. To remove spots, use commercial degreaser. For other stains, use a cool damp cloth. Covers should be dry cleaned only.

**CARE OF PRIVACY CURTAINS AND DRAPES** — Curtains may be machine washed and dried in cool dryer. Curtains and drapes slide along tracks.

**CARE OF WOODWORK** — Clean woodwork with regular household furniture polish. DO NOT use water to clean wooden surfaces. Scuffs may be covered with furniture wax and stain mixture. Scratches may be covered with Putty Stic.

**CARE OF WARDROBE AND DRAWERS** — Clean wooden surfaces with household furniture polish. Wash plastic surfaces with warm water and liquid soap. DO NOT use abrasive cleansers.

**CARE OF FLOORING** — Sweep and damp mop vinyl floors.

## BASIC SYSTEMS

### GENERAL

The basic utility systems in your camping trailer can be classified under four titles — Electrical, Fresh water, Drainage, and LP Gas. This section outlines these systems, describing their operation, function and simple maintenance. It is not intended as a service guide. Your RV has been engineered and built to provide trouble free operation, but should a problem arise, we recommend that you contact your authorized Viking dealer.

## ELECTRICAL

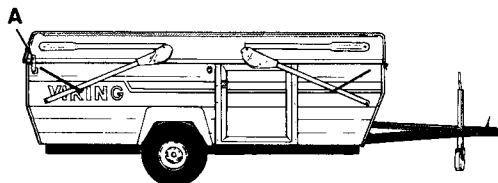
### GENERAL

Your camping trailer may contain two separate electrical systems, providing you with power while you are camped or traveling. There is a 12-volt direct current system, similar to the one in automobiles, and a 120-volt alternating current system, similar to one in homes. Your 120-volt system requires an external source of 120-electricity. This is provided either by a connection to a campsite or household receptacle. The 120-volt system should be used whenever a 120-volt hookup is available to reduce the 12-volt load on your tow vehicle's battery. Power is supplied by the Shoreline connection to the 120-volt receptacles. The 12-volt system is supplied by your automotive battery and is used when you are on the road or in campsites which do not provide 120-volt hookups. **The interior lights in your camping trailer operate only from a 12-volt source.** Energy is supplied by the automotive battery through the camper's electrical connection, or by the power converter, which changes 120-volt AC into 12-volt DC. Without the converter, the only 12-volt power source to your camper is from the tow vehicle's automotive battery, through the electrical connection.

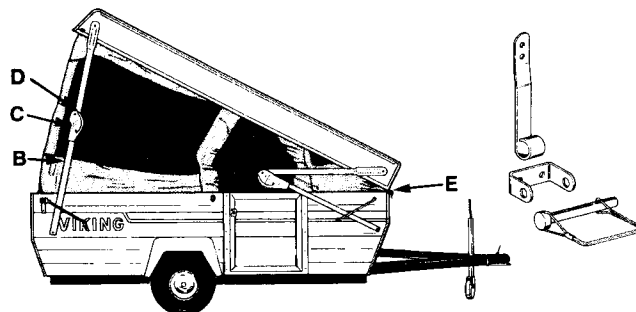
*(Electrical information continued on page 14.)*

## MULTIPLEX LIFTER SYSTEM

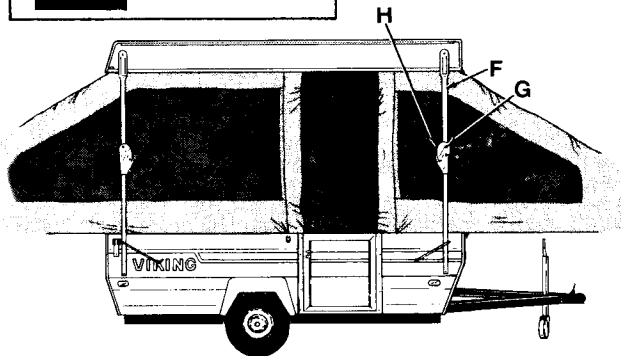
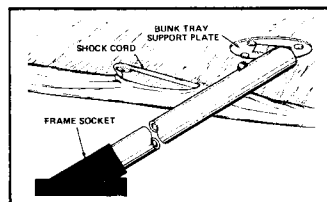
Remove the retainer pins from storage. Unlatch rear roof latches (A) on each side.



Use rear roof handles to raise roof until the lifter arms (B) are completely extended. Install retainer pins into the top hole (C) of the elbows (D). Remove pins from front pivot bracket (E).



Raise the front portion of the roof until lifter arms (F) are fully extended. Place retainer pins in the top hole (G) of the elbow (H).



**AWNING SETUP — MINI GASSERS ONLY** — Install retainer pins into hole (I) of the elbows. Insert curved end of bows into the awning tube (J) and install retainer pins through holes of bows and elbows.



**TAKE DOWN** — To take down the roof, remove the retainer pins, bend the arms and use front roof handles to lower roof. Repeat procedure for the rear. To lower roof alone, bend one front roof lifter arm and install retainer pin into bottom hole (I). Do the same for the remaining front arm. Lower roof using roof handles, remove pins from bottom holes (I), one at a time, and secure roof to brackets (E) with pins. Repeat procedure for the rear. Place retainer pins into appropriate storage area.

## CRANK LIFT SYSTEM

To raise the roof, release all four roof latches (Figure A). Open the winch hatch (B). Remove the crank from its storage area and attach it to the shaft. Turn the crank clockwise until the roof height indicator cable (C) is tight. Remove the handle and close the hatch.

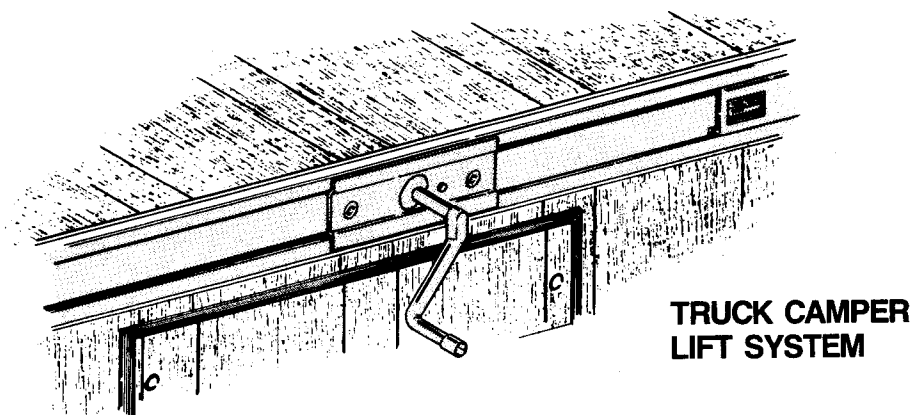
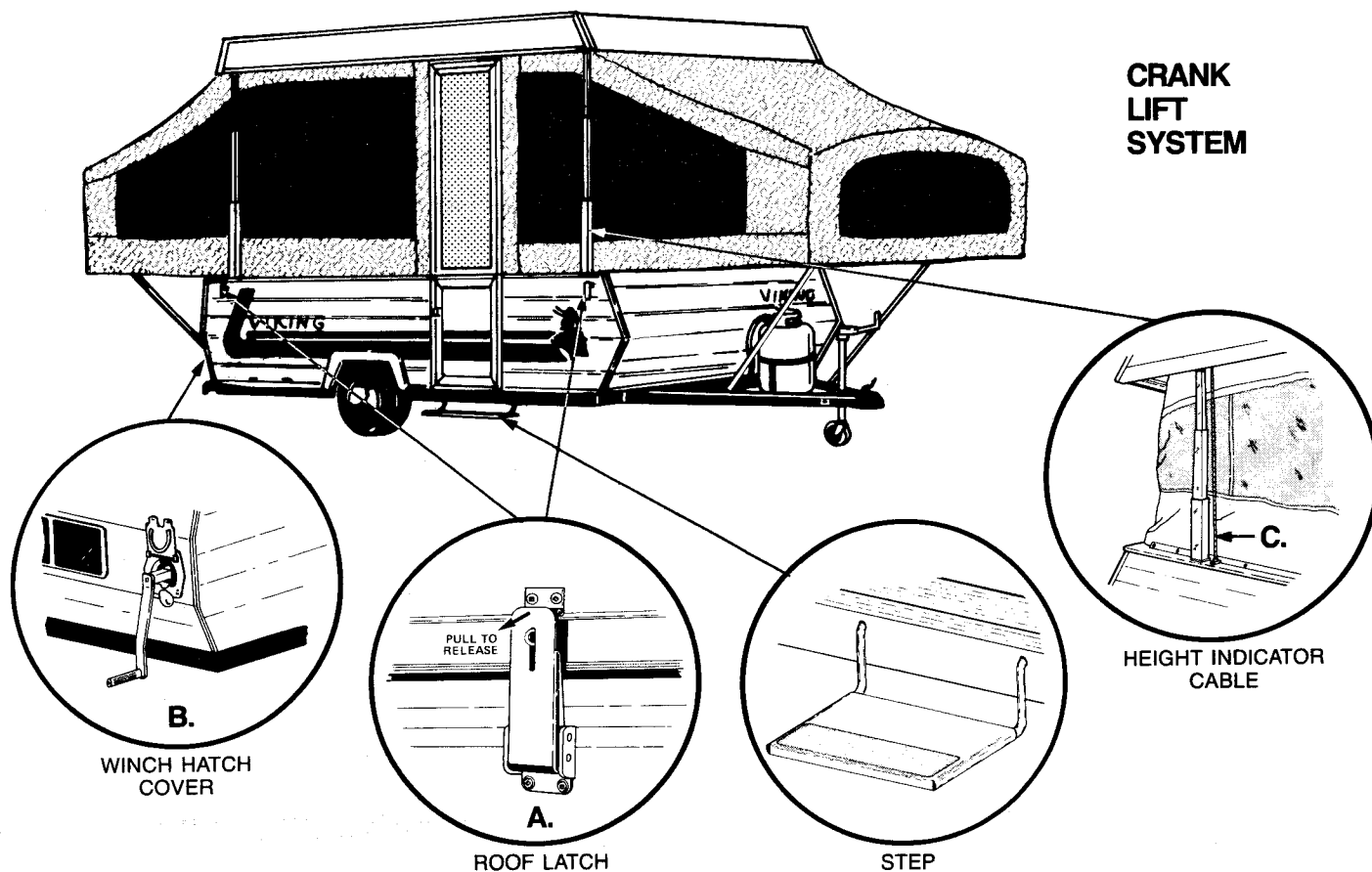
To lower the roof, crank winch counterclockwise. Stop cranking when roof is one foot from camper body and tuck canvas into unit. Continue cranking until roof is 6" from body; tuck remaining canvas into unit, then finish lowering roof. Secure with latches.

After securing the roof latches, put slight tension on the cable by cranking the handle clockwise one or two turns.

This will lift the cables off the floor and help prevent in transit damage.

## TRUCK CAMPER LIFT SYSTEM

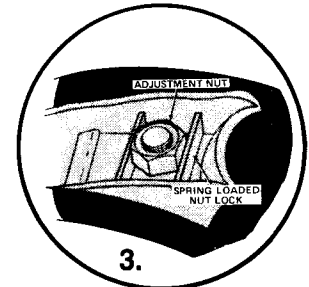
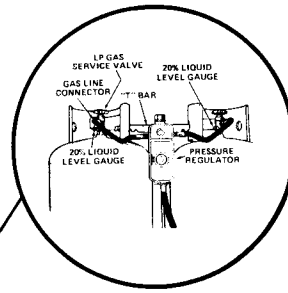
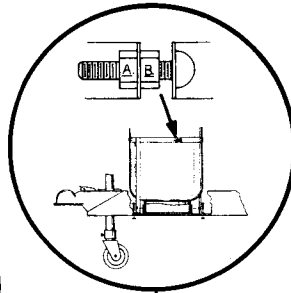
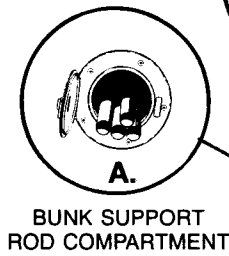
You can raise or lower the fold-down camper's top when it is on or off the pickup truck. First, **RELEASE** the three roof latches (one on each side and one at the rear; see illustration on this page.) Inside, fold back the fabric which covers the lift/crank system, then turn the crank clockwise to raise the top of the fold-down camper. Crank until the lift mechanism hits the stop.



# VIKING TENT CAMPER

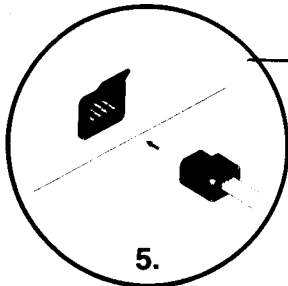
## SINGLE GAS BOTTLE

## DOUBLE GAS BOTTLE CONNECTION

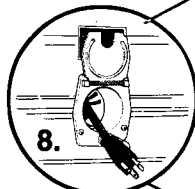
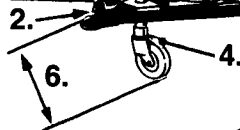


BUNK SUPPORT  
ROD COMPARTMENT

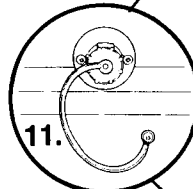
COUPLER  
ADJUSTMENT NUT



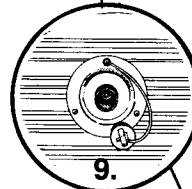
ELECTRICAL  
CONNECTION



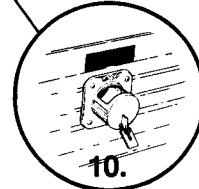
SHORELINE



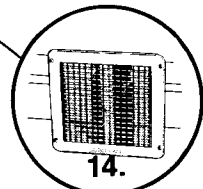
OUTSIDE  
DRAIN



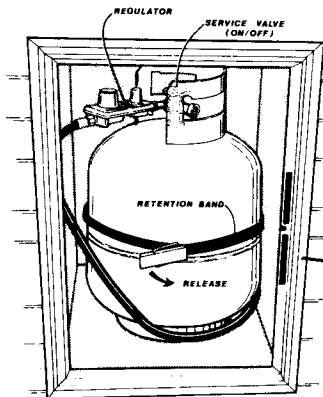
CITY  
WATER FILL



GRAVITY  
WATER FILL



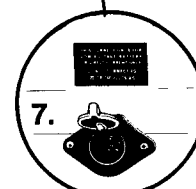
FURNACE VENT



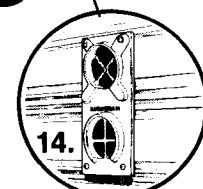
GAS BOTTLE



# VIKING TRUCK CAMPER



PIGTAIL  
SOCKET

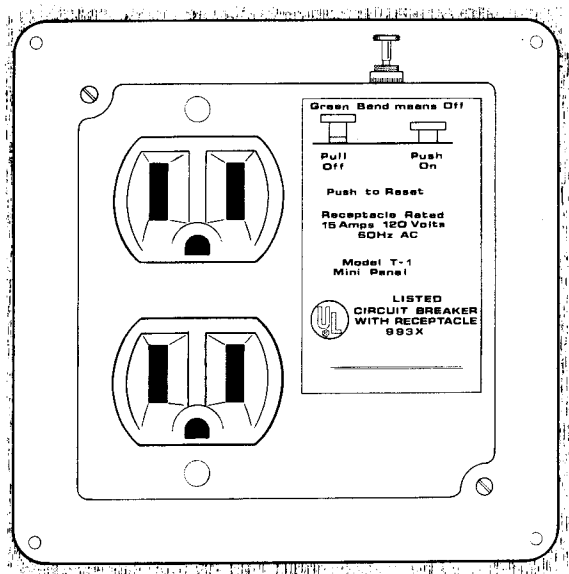


FURNACE  
INLET/EXHAUST

## 120-VOLT SYSTEM

The 120-volt system supplies power for the refrigerator power converter for the 12-volt system and the 120-volt receptacles located in the camping trailer, which are used to operate regular household appliances.

When you use the external 120-volt hook-up, the electrical power source is connected directly into the main electrical service panel and is distributed through a circuit breaker.



## SHORELINE CONNECTION

The Shoreline (Figure 8) is a heavy duty cable with a 3-prong grounding plug on one end, permanently attached at the other end to the service panel. It can be pulled from its storage compartment through a hatch in the sidewall of your vehicle and connected to an external receptacle. Some campsites and trailer parks still have two-slot outlets. If it is necessary to use a three-to-two adapter, be certain its grounding wire is fastened securely to the outlet grounding screw. If in doubt, you may attach a No. 6-AWG copper wire to the frame of the vehicle and fasten it to an 8-inch copper or brass stake driven into the ground.

The 120-volt system, on some models, is protected by a circuit breaker. If the circuit breaker opens, unplug all appliances on the circuit, allow a short period for the breaker to cool, then reset the breaker. If the breaker continues to open, contact your Viking dealer.

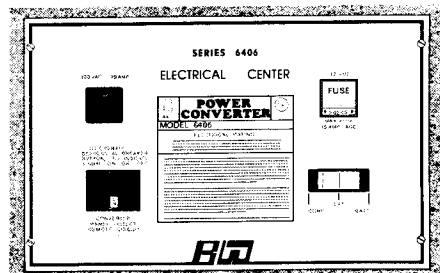
## 12-VOLT SYSTEM

The 12-volt system, which includes the automotive battery plus the optional 12-volt converter, supplies power to the interior lights, porch light and refrigerator. The 12-volt energy is supplied by the automotive battery (through the pigtail connection) or the power converter.

The automotive battery and alternator supply 12-volt power to the engine ignition system, the dashboard lights and accessories, headlights, taillights, backup lights, clearance lights, turn signals and warning flasher lights.

## CONVERTER

The power converter transforms 120-volt AC to 12-volt DC. The converter supplies power to all the 12-volt systems, except the refrigerator. The 12-volt circuit is protected by a fuse in the converter. If the fuse breaks, turn off or unplug all appliances. Replace the broken fuse with one of the same ampere rating. If the fuse continues to break, contact your Viking dealer.



## FRESH WATER SYSTEM

### GENERAL

Fresh water for your unit is supplied either to the vehicle's fresh water tank or an external pressurized source. Both supply water to the sink.

### CITY WATER

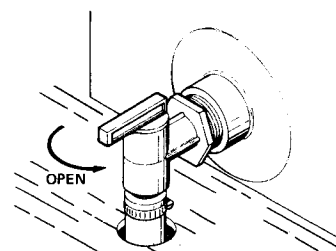
Connect a hose to a "city" pressurized water faucet and to the vehicle's water inlet (Figure 9). When using the city water hookup, the water tank is bypassed. You cannot fill the water tank through the city water inlet.

**CAUTION:** In areas where city water pressure exceeds 60 psi, you should use a pressure regulator. Excessive water pressure may damage lines and connections. See your Viking dealer for further details.

## WATER TANK

Open the gravity water fill by pulling out the fill spout (Figure 10). Use a hose or vessel to fit the fill spout. Water will flow out the water fill when the tank is full.

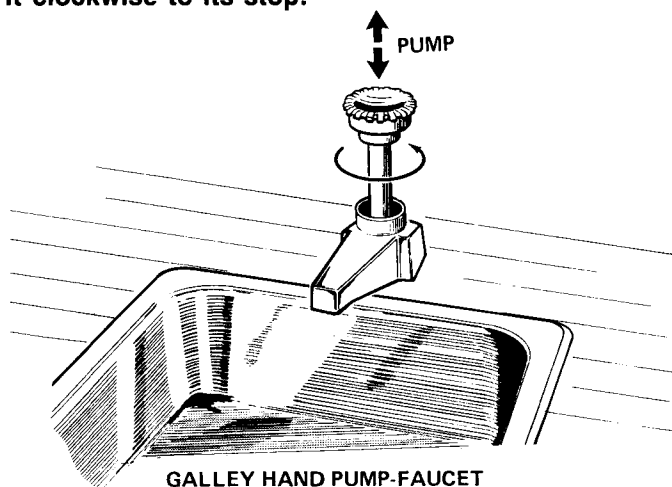
**SANITIZING WATER TANK** — Sanitize your unit's water tank before initial use, after a period of non-use and whenever the tank is suspected of being contaminated. Open the drain cock and drain the water out. When the tank is empty, close the drain cock. Mix 3 gallons of water with ¼ cup of liquid household bleach. Pour solution into tank through gravity water fill. Wait 3 hours. Drain the tank with fresh, potable water. If a chlorine taste lingers, pour 1 quart of vinegar and 5 gallons of water into the tank. Wait several days before draining tank. Flush tank with fresh, potable water.





## GALLEY HAND PUMP

Water to the galley hand-pump faucet is supplied by either the water tank or pressurized hookup. To draw water from the tank, pump the handle. Simply raise the handle for water when using a pressurized connection. **To avoid travel damage, push knob down and screw it clockwise to its stop.**



## SINK

Clean the sink with non-abrasive cleanser. Stainless steel cleaner may be purchased at most grocery stores.

## LEAKS

Traveling over bumpy or rough roads can cause pipe fittings to loosen. Check pipe fittings regularly for signs of leakage.

## DRAINAGE SYSTEM

### GENERAL

The drainage system of your camping trailer consists of a sink drain and a draintrap. The latter maintains a water barrier to prevent odors (caused by drain water) from entering the RV.

### DRAINAGE

Remove protective cap from drain fixture (Figure 11) and attach a garden hose to the outlet. Some campsites will have septic service for the disposal of sink water at each site. If the site is not so equipped, collect water in a bucket or container and dispose of as required by the park rules. To avoid contaminating your water system, use different hoses for fresh and drain water. Hoses of different colors will help you to avoid interchanging. The same is true for buckets or vessels used for fresh water and drainage; paint or mark them to prevent contamination.

**CAUTION: DO NOT pour boiling water down the drain as it may damage your flexible drain hose.**

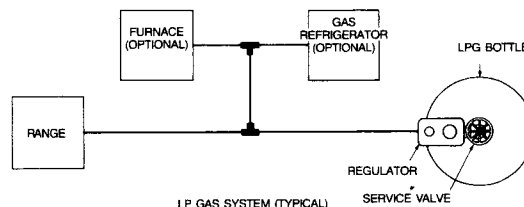
### DRAIN CARE

Use clear water to clean exterior pipe surfaces. **DO NOT** use harsh drain cleaner chemicals or solvents in drains.

## LP GAS SYSTEM

### GENERAL

The Liquefied Petroleum (LP) Gas System in your unit, furnishes fuel for heating and cooking. LP gas is stored in a bottle or bottles on the "A" frame of your unit. Under pressure in the bottle, the LP gas turns to vapor; it is the latter which burns. Each bottle has a 20% vapor level gauge which allows space in the bottle for vapor expansion. The high pressure vapor in the bottle is reduced in two stages through a regulator. The tank pressure will vary with temperature and altitude, but may be 100 pounds per square inch or more. It is reduced to about 12 pounds psi in the first stage, then to about 6-1/4 ounces psi in the second stage. The LP gas is propane or a blend of propane and butane, depending upon your locale.



The LP gas system is designed and built to rigid standards and tested before leaving the factory. Your Viking dealer also tests the system prior to delivery to you. Except for simple maintenance and occasionally tightening a connection, you should take your unit to an authorized Viking dealer for repairs or adjustments. The LP bottle(s) should always be filled by an authorized dealer.

**NOTE:** *Viking Recreational Vehicles, Inc. is not responsible for personal injury or property damage resulting from improperly maintained LP gas appliances and systems. LP gas burns readily and with intense heat.*

With proper care and maintenance, it is safe and efficient. However, there are certain characteristics of LP gas of which you should be aware. In its natural state, LP gas is odorless but an additive gives it a distinctive odor so that leaks may be readily detected.

LP gas is heavier than air and tends to collect in low pockets. **As LP gas settles into any closed area, it displaces air and thus could cause suffocation if not detected. It could also create a fire or explosion hazard.**

The following label has been placed in the vehicle near the range area:

**WARNING: For your safety, if you smell gas:**

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

### CLIMATE DIFFERENCES

The appliances will not function if the LP gas does not vaporize. Butane will not vaporize below 32 degrees F. (the freezing point of water), but propane will continue to vaporize down to 44 degrees below zero. Propane has

become the main type of LP gas used in RV's in recent years. Your LP supplier will have the correct type or blend for your locale. If your travels will take you into an area where climate differs, ask your LP dealer for his recommendations. The names of LP suppliers can be found in the yellow pages of your telephone directory under "Gas—Liquefied Petroleum — Bottled & Bulk". Many campgrounds now have LP gas fill facilities as do some service stations.

To operate any LP gas appliance, the LP gas bottle's Service valve must be OPEN. When first used, or after a refill, there may be some air in the gas lines which will escape when you 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. Remember too, that when you close the bottle's Service valve some of the gas will remain in the lines. To completely bleed the lines of gas, CLOSE the bottle's Service valve and light a range burner to use up the excess. When the flame burns out, turn the range burner OFF.

## LP GAS LINE CHECK

Always check the gas line connection after each refill and inspect other connections regularly, at least every 30 days or 5,000 miles of travel. To check, turn off all burners and pilot lights. Open all doors and windows. Open the LP gas bottle Service valve and use soapy water, a bubble solution or approved leak detector to test all line connections. Do not use products that contain ammonia or chlorine. Bubbles indicate a leak. Tighten the connections with two open-end wrenches until bubbles stop. If leak persists, contact your Viking dealer.

## FILLING THE LP GAS BOTTLE

Before removing an LP gas bottle, be certain all burners and pilot lights are off. Close the Service valve and turn the gas line connector clockwise to disconnect. For double bottles, turn the spinner nut counterclockwise enough to raise the "T" bar from both bottle handles, and remove empty bottles. Transport empty LP gas bottles in an upright position.

Take your bottles to an authorized LP supplier for filling. He will connect the fill nozzle to the gas line connector. The Service valve and the 20% vapor level gauge must be open. Filling should be stopped as soon as liquid appears at the liquid level gauge. Close the Service valve or the 20% gauge; they are designed to be closed leak-tight by hand. If you cannot hand-tighten properly, the valve may need repair or replacement.

A warning label has been located near the LP-Gas container. This label reads:

### **DO NOT FILL CONTAINER(S) TO MORE THAN 80 PERCENT OF CAPACITY**

Overfilling the LP-Gas container can result in uncontrolled gas flow which can cause fire or explosion. A properly filled container will contain approximately 80 percent of its volume as liquid LP-Gas.

Avoid overfilling by insisting that the LP gas bottle never be filled beyond 80% of capacity. If the bottle is overfill-

ed, have the LP gas dealer bleed out the excess. Overfilling does not allow sufficient space for the liquid to expand. This can produce excessive pressure which can cause LP gas leaks, creating potential fire or explosion hazard. **DO NOT smoke, strike a match or ignite a lighter when the LP gas bottle is being filled. A spark or flame could ignite fumes.** Be certain all burner and pilot flames are out and the Service valve is closed when filling your tow vehicle's gasoline tank.

Reinstall a single bottle by placing it in the support brackets, insert the bolt through bracket, (see diagram page 13). Nut A should be tightened until ring is tight around gas bottle, then nut B should be tightened against nut A to prevent them from vibrating loose. Reinstall a double bottle on the bottom support plate. Tighten the spinner nut so the "T" bar holds both bottles in place. Reconnect the gas line and check for leaks.

**LP BOTTLE CARE** — After each trip, inspect the LP gas bottle. Sand off traces of rust and apply a rust preventative paint. Always use white paint, which reflects heat. When the LP gas system is not in use, the Service valve should be closed.

**WARNING: LP-Gas containers shall not be placed or stored inside the vehicle. LP-Gas containers are equipped with safety devices which relieve excessive pressure by discharging gas to the atmosphere.**

## REGULATOR PRESSURE

Each LP gas bottle, or pair of gas bottles, will have a regulator. If you have double 20 lb. bottles, open only one bottle's Service valve. When the bottle is empty, close the Service valve and open the other bottle. You can check the volume of LP gas by weighing the bottle, comparing the known weight of an empty and filled bottle. The Tare (empty) Weight is stamped on the LP gas bottle handle.

Also stamped on the bottle is its water capacity in pounds. Multiply the Water Capacity by .42. The result will be the LP capacity in pounds (allowing for the 20% vapor space). Add the LP weight to the Tare Weight to get the total weight of a filled bottle.

**EXAMPLE:** If a 20-lb. bottle lists Tare Weight (TW) at 18 lbs. and Water Capacity (WC) at 48 lbs., the weight of the bottle when filled with LP to 80% of its capacity will be 38 lbs. ( $48 \times .42 = 20.16$  or 20 lbs. or LP 18 lbs. plus 20 lbs. = 38 lbs.)

LP-Gas regulators must always be installed with the diaphragm vent facing downward. Regulators that are not in compartments have been equipped with a protective cover. Make sure that regulator vent faces downward and that cover is kept in place to minimize vent blockage which could result in excessive gas pressure causing fire or explosion.

Check the LP gas regulator at the beginning of each season, or whenever a problem is indicated. Correct line pressure is 11 inches or water column. Your Viking Dealer or LP gas supplier can perform this check.

## LP GAS REGULATOR FREEZE-UPS

LP gas regulator freeze-up is a problem RV owners can

prevent if they are aware of its cause. Freeze-up is usually caused by one of three things: moisture in the bottle, an overfilled bottle, or a greater vapor withdrawal demand than the bottle can deliver at a particular temperature. Freeze-ups occur more frequently in cold weather when equipment can freeze and there is a lower rate of vaporization and a higher rate of demand.

Moisture can enter the bottle in the LP gas or through condensation if air is allowed into the bottle through an open valve. Avoid these conditions by using moisture-free LP gas and keeping all bottle valves closed during storage. If moisture is present, have the bottle purged by an authorized dealer and have him add anhydrous methanol; he will know the correct amount for the size of your bottle.

An overfilled bottle can allow liquid gas, instead of vapor, to flow through the regulator. This can result in erratic regulator delivery pressure, improper appliance operation or burner outage, and possible frosting of the regulator and LP gas lines. This can be avoided by following the previously cited precaution about overfilling.

Liquid gas does not vaporize as rapidly in cold weather, so you may place too great a demand on your bottle's capabilities in certain conditions. This can cause a refrigeration effect resulting in frosting of the bottle and regulator. Check with your Viking dealer or LP supplier about the appliance demand which can be met by your bottle at various temperatures. Always have your LP supplier add anhydrous methanol before filling the bottle in cold weather.

**WARNING: Do not bring or store LP-Gas containers, gasoline or other flammable liquids inside the vehicle because a fire or explosion may result.**

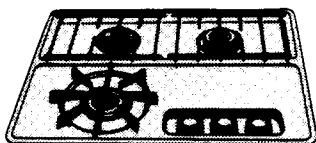
## APPLIANCES AND ACCESSORIES

### RANGE

**GENERAL** — Your Viking camping trailer will have a two or three burner range, which is a gas appliance.

**LIGHTING THE RANGE** — Be certain the LP gas bottle service valve is OPEN. Light a match and hold it close to the range burner, then turn the burner's control knob to full ON.

Air in the line may cause a blowing sound and may extinguish the match. When the line is free of air, the burner should light readily. Adjust the burner flame with the control knob.



**WARNING: It is not safe to use cooking appliances for comfort heating.**

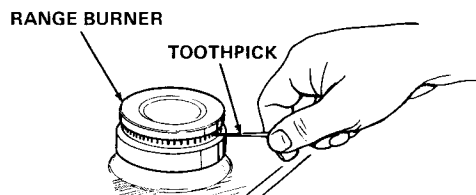
Cooking appliances need fresh air for safe operation. Before operation:

1. Open overhead vent and

2. Open window.

This warning label has been located in the cooking area to remind you to provide an adequate supply of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) will avoid dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.

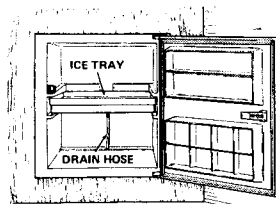
**CARE OF RANGE** — Allow the range top to cool, then clean it with hot, soapy water. Use a damp cloth to clean chrome surfaces. Grease splatters, which may bake onto the surfaces, should be wiped off before they have time to harden. Use chrome polish to remove stubborn stains. Use a toothpick to clean clogged burner orifices. **DO NOT** use metal objects, such as an ice pick or wire, to unclog burners. They may distort the opening and adversely affect burner operation. Read the manufacturers manual for details on the operation and care of the range.



**NOTE:** Prolonged use of the range or furnace may cause moisture to form on the inside of the canvas and vinyl walls. Condensation may also form on the inside of the camper during heavy rain or when the outside temperature drops. This condition can be controlled by opening a window on the down-wind side of the camper or opening the roof vent.

### ICE BOX

Place ice in the top tray. Make sure the hose, located near the back of the tray, is not bent or clogged. Water drains through this hose and onto the ground as the ice melts.



**CARE OF THE REFRIGERATOR AND ICE BOX** — Remove food and ice after each trip. Clean interior with warm water and liquid dishsoap. Wipe dry with soft, dry cloth. **DO NOT** use abrasive cleaning material, it will scratch interior surfaces. Prop the door open during periods of nonuse.

To defrost refrigerator remove frozen food and ice. Turn off the thermostat. Place a pan of hot water inside the compartment to speed up the defrosting process. Dry the interior with a clean cloth.

## 12-VOLT/GAS REFRIGERATOR

The gas controls are located at the rear of the refrigerator and are accessible through the lower ventilator in the wall of the vehicle.

### (a). L.P. Gas Operation—Lighting the Burner (See Fig. 12)

1. Open the lower vent at the rear of the refrigerator on the outside of the vehicle then turn on the gas valve (A) so that its handle is in line with the gas valve body.
2. Turn the gas thermostat knob (B) to setting No. 4.
3. Push in the plunger (C). Wait 5 seconds. Push button (D) several times in succession. A click should be heard each time it is depressed. Continue to press in the plunger (C) for a further 15 seconds. After burner lights, release it and check that the burner is lit by looking at the flame through the opening (F, fig. 13). If the burner has not lit, repeat the lighting procedure. The ice-tray shelf should show signs of cooling after about an hour.

**NOTE:** If the gas has to be re-lit when the ice-making compartment is still cold, the thermostat knob (B) must first be turned to MAX and returned to its normal setting only after the burner is lit. The refrigerator has a flame failure device which will automatically shut off the gas to the burner if the flame is blown out.

### (b). 12V Electric Operation

Before taking the vehicle on any road, turn off the gas cock and if required, use the 12V facility to operate the cooling unit. Whenever possible, the cabinet should be precooled together with its contents, by starting up and running the refrigerator on gas for several hours, overnight, before switching to 12V and starting on a journey.

### (c). Temperature regulation settings

3 or 4 on the thermostat knob should provide adequate cooling for most conditions.

#### NOTE:

- If the refrigerator has been out of use for an extended period, make sure all air vents are free from obstructions for and gas leaks using soapy water. — See item 9.
- Never cover or partially cover the air vents with cardboard or anything else.
- Remember to level the vehicle when stopping for more than about an hour otherwise the cooling unit could be permanently damaged due to overheating if it is left on.

For recommended maintenance, refer to appliance instruction booklet.

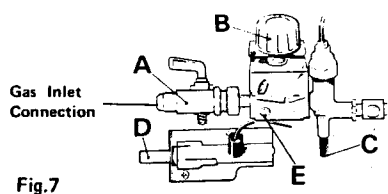


Fig.7

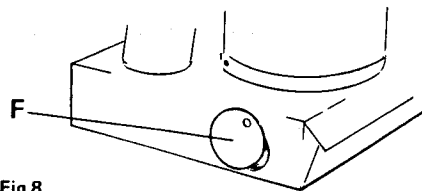
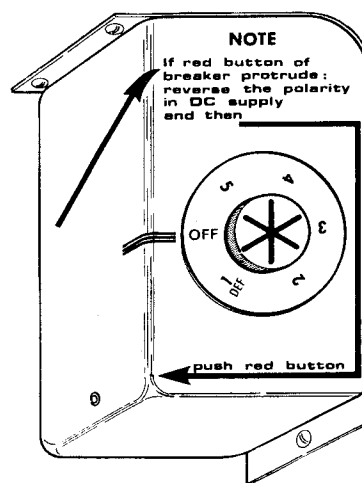


Fig.8

## 12V/110 REFRIGERATOR

The refrigerator is controlled by the thermostat dial, which also serves as the ON/OFF switch. Turn the dial clockwise from OFF and the refrigerator is switched ON just before the dial reaches the "1" position. The interior temperature drops as the dial is changed to higher settings, with "5" being the coldest. Turn the refrigerator OFF by turning the dial counterclockwise to OFF. Regulate the temperature according to the types of food stored. To avoid excessive drain of your battery, it is advisable to keep the thermostat set at "3" when the ambient temperatures is in the 70-degree to 90-degree F. range. At the same ambient temperature range, use "5" when frozen food is stored in the freezing compartment. A built-in relay automatically switches your refrigerator to the correct power supply. It will run on 12-volt DC from your truck battery when the pigtail is connected to the pigtail socket. When you connect the shoreline to 120-volt power, the relay automatically changes to 120-volt AC. The latter mode saves on power consumption and will keep your battery in good condition.

Never put hot foods into your refrigerator; never employ a "quick charge" to your battery unless the thermostat is OFF or the pigtail is removed from the pigtail socket, and never use a commercial 12-volt DC to 120-volt AC, 60 hertz inverter or converter for operating your refrigerator on AC, since these devices do not hold the required constant frequency. For additional details on operation, care and trouble-shooting, see the refrigerator manufacturer's Owner's Guide.



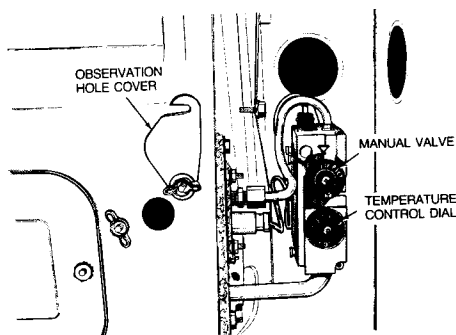
**NOTE:** Keep items to be stored in your RV refrigerator or ice box in your home refrigerator or freezer until you are ready to leave. This will reduce the cooling load on your RV refrigerator or ice box and help keep perishable foods fresh longer. Always store food in sealable containers or suitable wrapping. During travel, use the door latch.

## FURNACE

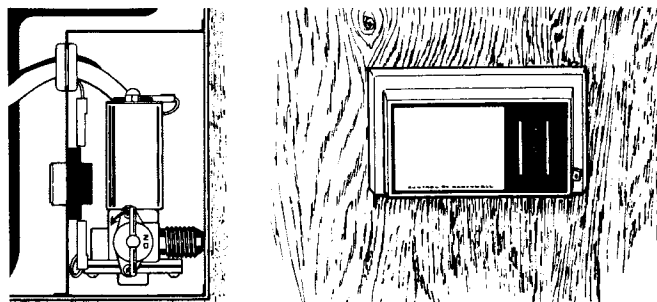
The RV furnace is an LP gas appliance. Heat is discharged into the unit directly through the furnace grill.

**FURNACE IGNITION — Integral Thermostat Model**  
When igniting the furnace, be certain the LP gas bottle's Service valve is OPEN. Remove the furnace access door

and burner cap. Set the temperature control dial to lowest setting. Turn the gas control knob to PILOT. Press knob and place a lighted match near the pilot burner and hold until the pilot remains lit, about 1 minute. Turn the gas control knob ON. Set the temperature control dial to desired temperature. Replace burner cap and furnace access door.



**REMOTE THERMOSTAT MODEL** — Turn the furnace Gas Control Valve ON, then set the thermostat to the desired temperature. The furnace functions automatically according to the setting.



**NOTE:** If the furnace does not light after the third attempt, turn the gas control knob to OFF and contact your Viking dealer. DO NOT attempt to repair or adjust the furnace yourself.

**CARE OF FURNACE** — The furnace requires only routine cleaning. Soot, which may form on the inside of the combustion chamber, may be removed with a vacuum sweeper. Check the furnace Inlet/Exhaust cover on the outside of your unit (Figure 14) periodically to be certain it is free of objects which might block the openings.

**WARNING:** DO NOT use catalytic or open flame heaters in your Viking unit. This includes wood and charcoal grills and stoves. The use of this equipment inside the vehicle may cause fires. These devices either portable or permanently installed, consume oxygen from the interior space and may contaminate the air with toxic fumes. These fumes may cause nausea, dizziness or death.

## MAINTENANCE

### GENERAL

Recreational vehicle owners are noted for the pride they

take in the appearance of their units. Proper maintenance will do more than keep your Viking unit looking nice. It can help insure trouble-free operation and maximum efficiency of the various appliances and components. Failure to properly maintain the vehicle or its components also may constitute a breach in your warranty obligations. Negligence, misuse or installation of unauthorized equipment could affect the operation of your unit and may void your warranty. See the various manufacturer's manuals for specific maintenance instructions.

### CONDENSATION

Condensation can be a problem in modern, tightly constructed, recreational vehicles. When the unit is tightly closed, especially in cold weather, the relatively-small air volume in the RV can absorb only a certain amount of moisture. When the saturation point is reached, the moisture is released in the form of condensation. (Certain amounts of condensation should be expected, especially on cool surfaces such as windows and metal door frames). However, excess condensation can damage walls and ceilings. Bathing, dishwashing, appliances and unvented gas burners, all add moisture to the air. You can control this by allowing the moisture to escape to the outside. Use your roof vent when cooking; don't hang wet clothes in your unit to dry. In hot weather, air conditioning can help make you more comfortable because it removes excess humidity from the air, while lowering the air temperature.

### CANVAS

To condition the canvas prior to your first trip, set up the camper and spray with water. Allow the canvas to dry and then spray again. This will expand the thread inside the stitch holes. Always ventilate and dry the canvas with bows and braces in place, as soon as possible after each exposure to moisture. After every trip, wash dust and dirt, bird and tree droppings, insects and other foreign material from the exterior canvas surfaces. These substances can destroy the canvas' water repellency. Use warm water and a soft bristle brush to remove stubborn stains. Rinse canvas with cool water. Allow the canvas to dry completely before lowering. Mend tears and holes with patching material or cement. Leaks in canvas seams can be repaired by spraying the seam with a quality water repellent, available from your Viking dealer.

**CAUTION:** Use of sprays (hair, insect, deodorant, etc.,) near fabric can destroy fabric finish. NEVER allow spray to come in contact with tent fabric.

### VINYL

Your camping trailer may have a vinyl coated fabric on the exterior. Vinyl coated fabric cannot "breathe"; condensation may sometimes form on the inside fabric. To avoid, open the zippered windows slightly to ventilate the interior of the unit. (Canvas **does breathe**; moisture causes fabric threads to swell and thus repel water.) Vinyl coated fabric can be cleaned (on the vinyl side only) with a mild detergent solution and sponge. Do not rinse the

detergent solution over any canvas portion of the camping trailer. Vinyl top cleaners may be used to remove stubborn stains. Leaks in vinyl coated fabric seams can be repaired with a cake of beeswax rubbed into the needle holes from the outside. Beeswax is usually available at local hardware stores.

## AIR QUALITY

State of the art construction and energy conserving methods have made indoor air quality a matter of increasing concern. Air infiltration and air exchange rates have been substantially reduced. Thus, certain air-borne contaminants, which were previously dissipated by normal air infiltration and air exchange, tend to accumulate in your recreational vehicle. These contaminants may be generated by building products emissions, smoking, cooking, fuel burning appliances and usual human activity. Adequate ventilation will reduce the level of air contaminants. Such periodic airing is required on a regular basis and particularly during periods of high temperature and high humidity and after prolonged storage.

## BODY

Wash dust and dirt, road tar, bird and tree droppings insects and other foreign material from exterior surfaces. Use a mild soap in cold or lukewarm water. Apply automotive type wax at least once a year.

**CAUTION:** To avoid marring body surfaces, *DO NOT use abrasive cleaning compound or cloth. DO NOT wipe the surface with a dry cloth; DO NOT wash or wax your unit in the hot sun, wait until the surfaces have cooled. Wait 30 days after purchase before waxing your new unit.*

## FRAME

Inspect the frame periodically. Remove dirt and rust and apply rust preventive paint.

## ELECTRIC BRAKES

After a break in period of 200 miles, brakes should be adjusted. Inspect and adjust brake drums, lining and shoes at the beginning of each camping season or before an extended trip.

## WHEEL BEARINGS

Check wheel bearings lubrication at the beginning of each camping season or before an extended trip. Inner and outer bearings should be packed with a lithium-based, multi-purpose, extreme pressure NLGI #2 grease. Apply a modest amount of grease directly to the bearing. Work it in until all rolling elements are coated with a layer of the lubricant. A little grease may be applied to the hub cavity. Check for damage to rims and hubs.

**CAUTION:** *DO NOT overfill the hub cavity with grease. Excessively packed wheel bearings may overheat, depriving the bearings of lubrication and causing premature failure.*

## LIFT SYSTEM

Periodically, the telescoping arms of the crank lift system should be lubricated with silicone spray. The bolts in the multi-plex system should be periodically checked for tightness.

## STORAGE GENERAL

You should perform the following procedures if you will not be using your unit for an extended period.

## 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 TANK

Open the water tank drain cock and empty tank. Close the drain cock when the tank is empty.

## ELECTRICAL SYSTEM

Turn off the circuit breaker at the service box.

## EXTERIOR

Store your unit in a garage or other shelter, if possible, or cover with tarpaulin or plastic. Do not allow snow to collect on the roof. If you will not be using your trailer for an extended period, block it up to prevent tire damage.

## 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 freshwater system as described in STORAGE section, then pour 6 gallons of approved, non-toxic RV antifreeze into the gravity water fill. This will allow you to winterize the fresh water and drainage systems. Follow the checklist below:

**CAUTION: DO NOT use automotive antifreeze in the fresh water system; it is poisonous.**

FRESH WATER SYSTEM can be winterized by briefly opening the faucet and pumping water, with the sink drain closed. Close faucet and stop pumping when antifreeze pours out.

DRAINAGE SYSTEM should be winterized by removing the sink drain plug to allow antifreeze to circulate through the line. Pour an additional 2 cups of RV antifreeze into each drain.

LP GAS system should be prepared as described in the STORAGE section. The regulator also should be covered

to keep moisture out of the vent. LP gas bottles should have anhydrous methanol added by an LP gas supplier.

DRAPES should be removed.

COUNTERTOPS AND CABINETS should be cleaned.

REFRIGERATOR/ICE BOX should be cleaned and the door propped open. Cover exterior panels.

FURNACE should be cleaned and exterior vents covered.

RANGE should be cleaned.

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

UNIT should be placed on wooden blocks or jackstands on a firm, level surface. Tires should be removed, partly deflated, hung on a wall, and covered to protect them from sunlight.

## **FIRE SAFETY**

Prevention is the best form of fire safety. Follow the instructions previously listed for care, maintenance and operation of the various appliances in your vehicle. Make certain everyone in your party is familiar with 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 the 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. Close the LP gas service valve. If it is a small fire, use the fire extinguisher. If the fire cannot be extinguished quickly, GET OUT. Disconnect the Shoreline power cord from the campground receptacle and move a safe distance away from the unit. Call the fire department. DO NOT re-enter the vehicle until officials declare it safe to do so.

## **VISITING CANADA OR MEXICO**

### **GENERAL**

Passports or visas are not required for entry into CANADA or MEXICO. However, tourists cards are necessary for MEXICO if you will be staying more than 72 hours or travel farther than 40 miles from the border. Cards can be obtained at the port of entry or from a Mexican consulate. You should carry your birth certificate, voter's registration card, baptismal certificate or similar proof of identity when entering another country. Naturalized U.S. citizens should carry their naturalization papers or other proof of citizenship. Persons under 18 years of age should carry a notarized letter from their parents or guardians giving them permission to travel in CANADA or MEXICO.

The information in this section is general in nature and

subject to change by the Canadian or Mexican government. For specific information, including rules for re-entering the U.S., as well as points of interest and campsites, contact the consulate nearest the point at which you plan to enter the country.

## **VEHICLES**

No special driver's license or permit is necessary in either country, but renew your license if it has or will expire during the trip. Proof of vehicle ownership is required at the border. If you are using someone else's unit, you should have a notarized letter authorizing its use. MEXICO requires a vehicle permit for every self-propelled vehicle. The permit can only be obtained from Mexican customs (Auduana) offices upon presentation of tourist card, vehicle registration, and title or notarized statement from owner.

CANADA requires a Canadian Non-Residential Inter-provincial Motor Vehicle Liability Insurance card, which is only available from U.S. agents. All provinces in CANADA require evidence of financial responsibility if visitors are involved in an accident. Limits vary from province to province. Contact your insurance agent for details. Your insurance policy is NOT valid in Mexico. Temporary insurance must be purchased from Mexican companies whose offices are located near the border.

## **CB RADIO**

CB radio operation in CANADA requires a temporary license which can be obtained by writing Regional Director Telecommunications Regulation Branch, Department of Communications, 20th Floor, 2085 Union Avenue, Montreal, Quebec H3A, 2C3, Canada. Mexico currently prohibits the use of CB radios.

## **HUNTING AND FISHING**

Each province has its own laws and license requirements. You must provide a written description and the serial number of each gun at the border. Revolvers, pistols and fully automatic firearms are prohibited in CANADA. A license must be obtained from the province in which you intend to hunt or fish. Further information can be obtained by writing the Department of Lands and Forests, Wildlife Branch, in the province you intend to visit. Hunting and fishing laws in MEXICO are extremely complicated. Request information from Secretaria de Comunicaciones, Estados Unidos Mexicanos, Mexico DF.

## **DOGS AND CATS**

CANADA requires a certificate, signed by a licensed veterinarian in the U.S. or CANADA, attesting that a dog has been vaccinated for rabies in the past 12 months. The certificate must contain a description of the dog and date of vaccination. Puppies under 3 months old need no certificates. There is no restriction on the entry of healthy cats. A certificate, signed by a licensed veterinarian, describing the pet and attesting that it has had a rabies shot in the past 6 months, is required in MEXICO. A fee is charged for the required verification of the certificate by a Mexican consulate.

## GENERAL INFORMATION

### PERMANENT DWELLING

Your new recreational vehicle is designed as temporary living quarters for recreational camping, travel or seasonal use and not as a permanent dwelling place. Usage as a permanent accomodation is a breach of warranty and we are not liable for any damage that results because of such misuse.

### WARRANTY

Every Viking RV product is backed by our position as an RV industry leader, achieved through years of experience in producing units noted for their quality and dependability. Every effort has been made to provide you a safe, dependable recreational vehicle. Your Viking RV complies with applicable federal and state regulations and the requirements of ANSIA119.2, the nationally-recognized "Standard for Recreational Vehicles — Installation of Plumbing, Heating, and Electrical Systems". The Recreational Vehicle Industry Association (RIVA) periodically inspects Viking production and assists in maintaining strict compliance with installation and safety standards for those systems.

You, the owner, must perform periodic inspections of the systems and provide a program of preventive maintenance as described in WARRANTY SERVICE — Viking RV recommends that warranty service be performed by the authorized dealer from whom you purchased your RV because of the dealer's continued and personal interest in your satisfaction. But if you are traveling or in the event that you move, service under the Viking warranty will be performed by any authorized Viking dealer in the United States or Canada. Whenever possible, make an appointment to avoid unnecessary delays.

Always carry your Owner Registration Card, which must be presented to obtain warranty service (carry your temporary Owner Registration until you receive the plastic card from Viking). The card is proof of purchase and provides the date of retail sale, which are necessary to determine warrantability. Subsequent owners covered under terms of the warranty will be provided an Owner Registration Card for the unexpired term of the warranty. If you cannot locate an authorized dealer, contact Viking RV Service, 580 W. Burr Oak Street, Centreville, MI 49032, phone (616) 467-6321.

### OWNER RELATIONS

Owner's satisfaction and goodwill are of primary concern to Viking RV. We recognize that our continued success as a leading manufacturer of recreational vehicles depends on your complete confidence in our products and service. A pleasant and effective relationship through our dealers is as important as maintaining the technical excellence of our product. Your authorized Viking RV dealer will assist you in obtaining service, maintenance, selection of options and instructions concerning the operation of your recreational vehicle.

Occasionally, a warranty or service matter may not be handled to your satisfaction. Often it is the result of a misunderstanding and can be resolved at the dealer level. Discuss the situation with the dealership management. If you cannot find satisfaction at the dealer level, we invite you to contact Viking RV Owner Relations Department where we will make every effort possible to provide an agreeable solution. In most instances, we will eventually refer you back to the local dealer with our recommendations.

Write to Owner Relations at:

Viking Recreational Vehicles, Inc.  
P.O. Box 488  
Centreville, Michigan 49032  
Attn: Owners Relations Dept.

### EMERGENCY CONTACTS

Doctor Name \_\_\_\_\_

Address \_\_\_\_\_

Phone (AC ) \_\_\_\_\_

Relative Name \_\_\_\_\_

Address \_\_\_\_\_

Phone (AC ) \_\_\_\_\_

Neighbor Name \_\_\_\_\_

Address \_\_\_\_\_

Phone (AC ) \_\_\_\_\_

Police Phone (AC ) \_\_\_\_\_

Fire Phone (AC ) \_\_\_\_\_

Insurance Agent Name \_\_\_\_\_

Address \_\_\_\_\_

Phone (AC ) \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone (AC ) \_\_\_\_\_



## APPLIANCE IDENTIFICATION FORM

Should your unit or one of the appliances require warranty service, you will have to identify the manufacturer, model designator and serial number. Fill in this form as soon as possible. It will help you meet our identification requirement. Depending on your unit, certain items listed below may not be offered as either optional and/or standard.

EQUIPMENT	MANUFACTURER	MODEL DESIGNATOR	SERIAL NUMBER
Camper	<u>Viking</u>	<u></u>	<u></u>
Furnace	<u></u>	<u></u>	<u></u>
Range	<u></u>	<u></u>	<u></u>
Converter	<u></u>	<u></u>	<u></u>
Refrigerator	<u></u>	<u></u>	<u></u>
Door Key	<u></u>	<u></u>	<u></u>
Exterior Storage Compartment Keys	<u></u>	<u></u>	<u></u>

## SPECIFICATIONS

### PIGTAIL COLOR CODE

WHITE	—	Ground
BROWN	—	Right Stop
YELLOW	—	Right Turn
RED	—	Left Stop
BLACK	—	Left Turn
BLUE	—	Brakes
ORANGE	—	Convertor
GREEN	—	Clearance

### FUSES

Interior — 10 AMP Fuse or 6 AMP Fuse

### TIRES

4.80 x 8 (B) Load Range 60 psi  
 5.70 x 8 (C) Load Range 75 psi  
 4.80 x 12 (B) Load Range 60 psi  
 B78 x 13 (B) Load Range 32 psi

### LIGHT BULBS

Porch Light	—	1003
Clearance	—	57
Taillights	—	1157 Little Gasser & Deluxe
Taillights	—	1141 Deluxe
Interior	—	1141

### HITCHBALL HEIGHT

14' Mini Gasser	—	14½"	2"
16' Little Gasser	—	15¼"	2"
18.5' Little Gasser	—	15½"	2"
19' Legend	—	15½"	2"
21' Odessey	—	16½"	2"
22' Conquest	—	16½"	2"

### BALL DIA.

ADDITIONAL OR OPTIONAL EQUIPMENT WEIGHING MORE THAN 20 POUNDS WHEN INSTALLED (TRUCK CAMPER).

3 Jacks.....	91 lbs.
Furnace.....	20 lbs.

## MISCELLANEOUS

See the advertising brochure for the exterior dimensions, weight ratings and wheel/tire ratings which pertain to your unit.

**ADDITIONAL NOTES:**



