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Chalet SECTION 1 INTRODUCTION

Congratulations! We welcome you to the exciting world of motor home travel and camping. You will find it convenient and enjoyable to have all the comforts of home and still enjoy the great outdoors wherever you choose to go. Your motor home has been carefully designed, engineered and manufactured to provide years of enjoyment.

Before sliding into the driver's seat, please become familiar with operations and features. In addition, spend some time with the dealer when you take delivery to learn all you can about your new motor home.

# **ABOUT THIS MANUAL**

This operator manual was prepared to aid you in the proper care and operation of the vehicle and equipment.

Please read this manual completely to understand how everything in your coach works before taking it on its "maiden voyage."

NOTE: This manual describes many features of your motor home and includes instructions for its safe use. This manual, including photographs and illustrations, is of a general nature only. Some equipment and features described or shown in this manual may be optional or unavailable on your model. Because of Winnebago Industries' continuous program of product improvement, it is possible that recent product changes and information may not be included.

The instructions included in this manual are intended as a guide, and in no way extend the responsibilities of Winnebago Industries beyond the standard written warranty as presented in this manual. The descriptions, illustrations, and specifications in this manual were correct at the time of printing. We reserve the right to change specifications or design without notice, and without incurring obligation to install the same on products previously manufactured.

The materials in your InfoCase contain warranty information and operating and maintenance instructions for the various appliances and components in your motor home.

NOTE: Many of the instruction sheets and manuals for the various appliances and components have been incorporated into the Operator Manual Supplement for your convenience. Please read the FAQ in section 1 of the Operator Manual Supplement for more details.

Throughout this manual, frequent reference is made to the vehicle chassis manual that is provided by the manufacturer of the chassis on which this motor home is built.

Consult the chassis manual for operating, safety and maintenance instructions pertaining to the chassis section of the motor home.

# SAFETY MESSAGES USED IN THIS MANUAL

Throughout this manual, certain items are labeled Danger, Warning, Caution or Note. These terms alert you to precautions that may involve damage to your vehicle or a risk to your personal safety. Read and follow them carefully.

# \land danger

DANGER indicates a directly hazardous situation which, if not avoided, will result in death or serious personal injury.

# WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious personal injury.

# 

CAUTION indicates a potentially hazardous situation which, if not avoided, could result in damage mainly to equipment or property, but in some cases may also result in minor or moderate personal injury.

NOTE: A 'Note' is not necessarily safety related but indicates a recommendation or special point of information that could assist in understanding the use or care of a feature item.

# PRE-DELIVERY INSPECTION

This motor home has been thoroughly inspected before shipment. Your dealer is responsible for performing a complete predelivery inspection of the chassis and all motor home components.

As a part of the pre-delivery inspection procedure, the dealer is responsible for road testing the motor home; noting and correcting any problems before delivery.

# FRONT AXLE TIRE ALIGNMENT

We recommend that you have the front suspension and steering alignment checked and adjusted after you have fully loaded the vehicle according to your needs. Thereafter, have alignment inspected periodically to maintain vehicle steering performance and prevent uneven tire wear.

# SERVICE AND ASSISTANCE

Your dealer will be glad to provide any additional information you need, as well as answer any questions you might have about operating the equipment in your motor home. When it comes to service, remember that your dealer knows your vehicle best and is interested in your satisfaction. Your dealer will provide quality maintenance and any other assistance that you may require during your ownership of this vehicle.

If you need warranty repairs while traveling you may take your motor home to any authorized Winnebago or Itasca dealership and request their assistance.

See the Motor Home Service Dealer directory in your InfoCase.

# **REPORTING SAFETY DEFECTS**

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

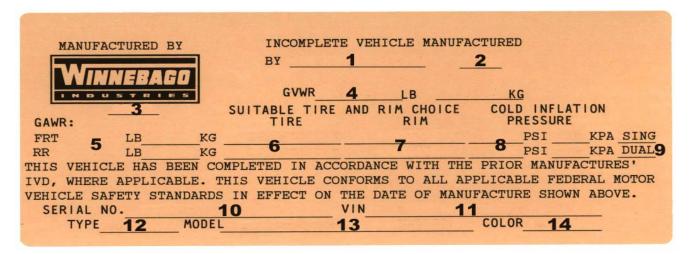
If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Winnebago Industries.

To contact NHTSA, you may either call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153) or go to their website at *http://www.safercar.gov* or write to: Administrator, NHTSA 400 Seventh St SW Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from the NHTSA website at *http://www.safercar.gov* 

# VEHICLE CERTIFICATION LABEL

This label is affixed to the lower driver side armrest panel, driver door or the driver side door jamb, depending on model. It contains vehicle identification numbers and other important reference information.



# **EXPLANATION OF DATA**

- 1. Chassis manufacturer.
- 2. Chassis manufacture date.
- 3. Month and year of manufacture at Winnebago Industries.
- 4. Gross Vehicle Weight Rating: Total permissible weight of the vehicle, including driver, passengers, total cargo carried (including all liquids) and equipped with all options.
- 5. Gross Axle Weight Rating: Total permissible weight allowed for the front and rear axles (listed in pounds and kilograms).
- 6. Suitable Tire Choice: Tires recommended to meet handling and safety requirements. When replacing any of the tires on your vehicle, always replace with a tire that meets these specifications.
- 7. Suitable Rim Choice: Wheel rims recommended to meet handling and safety requirements. When replacing any of the rims on your vehicle, always replace with a rim that meets these specifications.
- 8. Cold Inflation Pressure: Inflation pressures at Gross Axle Weight Ratings recommended (while Cold) for the tires originally equipped on your vehicle. These pressure levels must be

maintained to assure proper handling, safety and fuel economy.

- 9. Rear Axle Wheel Configuration: Single or Dual as it relates to the inflation.
- 10. Serial Number: This is the serial number assigned to the completed vehicle by Winnebago Industries.
- 11. Vehicle Identification Number (VIN): This number identifies the chassis on which the motor home is built. The 10th digit of the VIN designates the chassis model year. (6=2006, 7=2007, etc.). This information is useful when ordering chassis repair parts.
- 12. Type: States the NHTSA designated usage classification for your motor home. MPV signifies a Multi-purpose Passenger Vehicle.
- 13. Model: Lists the Winnebago product model number of your vehicle.
- 14. Color: Signifies the color code number of the decor used throughout the vehicle. This number is necessary for ordering replacement cushions, curtains, carpet, etc.

$\mathbb{C}$	na	le	et
<b>D-Seri</b>	es C	lass	5-A

Model	26P	29R	30B	33T	34A	35J NEW
Length (Bumper to Bumper)	26' 11= °	29' 8"^/29' 8" <sup>0</sup>	30' 11"^/30' 11" <sup>0</sup>	33' 11" <sup>8</sup> /33' 11" <sup>0</sup>	34' 6" <sup>8</sup> /34' 6" <sup>E</sup>	35' 2" <sup>8</sup> /35' 2" <sup>E</sup>
Exterior Height <sup>1</sup>	12" 1" <sup>c</sup>	12' 3"*/12' 3" <sup>D</sup>	יים 12' 3"אין 12' 3"ם	12" 3" <sup>8</sup> /12' 3" <sup>0</sup>	12' 3" <sup>8</sup> /12' 4" <sup>E</sup>	12' 3" <sup>8</sup> /12' 4" <sup>∈</sup>
Exterior Width <sup>2</sup>	8'5.5"	8'5.5"	8'5.5"	8'5.5"	8'5.5"	8'5.5"
Exterior Storage <sup>3</sup> (cu. Ft.)	67.3	81.2	126.2	148.0	6.86	101.8
Awning Length	11' 6"	16'	16'	18'	18'	14"
Interior Height	6'8"	6,8,	-8 B	6'8"	8'8	6'8"
Interior Width	8' 0.5"	8' 0.5"	"5'0'8	8' 0.5"	8" 0.5"	8' 0.5"
Freshwater Capacity w/Heater <sup>4</sup> (gal.)	67	75	74	74	72	72
Holding Tank Capacity <sup>4</sup> - Black/Gray (gal.)	39/36	37/41	41/57	41/57	41/57	44/48
LP Capacity <sup>6</sup> (gal.)	18	18	18	18	18	18
Fuel Capacity (gal.)	09	75	75	75	75	75
GCWR <sup>e</sup> (lbs.)	22,000°	26,000^/22,000 <sup>D</sup>	26,000^/22,000 <sup>0</sup> 26,000^/22,000 <sup>0</sup>	26,000 <sup>9</sup> /22,000 <sup>0</sup>	26,000 <sup>5</sup> /26,000 <sup>E</sup>	26,000 <sup>⊑</sup> 26,000 <sup>₽</sup> /26,000 <sup>⊑</sup>
GVWR (lbs.)	16,000°	18,000^/18,000 <sup>0</sup>	18,000^/18,000 <sup>D</sup> 18,000^/18,000 <sup>D</sup>	20,500 <sup>8</sup> /18,000 <sup>0</sup>	20,500 <sup>8</sup> /20,700 <sup>E</sup>	20,700 <sup>E</sup> 20,500 <sup>B</sup> /20,700 <sup>E</sup>
GAWR - Front (lbs.)	6,500 <sup>c</sup>	7,000^/7,000 <sup>0</sup>	000,7/\$000'2	7,500 <sup>8</sup> /7,000 <sup>0</sup>	7,500 <sup>8</sup> /7,500 <sup>8</sup>	7,500 <sup>8</sup> /7,500 <sup>E</sup>
GAWR - Rear (lbs.)	10,500°	11,000^/12,000 <sup>0</sup>	11,000^/12,000 <sup>D</sup> 11,000^/12,000 <sup>D</sup>	13,500 <sup>8</sup> /12,000 <sup>0</sup>	13,500 <sup>8</sup> /13,500 <sup>8</sup>	13,500 <sup>E</sup> 13,500 <sup>B</sup> /13,500 <sup>E</sup>
Wheelbase	159°°	a،،061/ب،،061	<sub>م</sub> "061/ <sub>4</sub> "061	208" <sup>8</sup> "208" <sup>0</sup>	="8751 <sub>8"</sub> 875	228" <sup>8</sup> /228" <sup>E</sup>

# SPECIFICATIONS AND CAPACITIES

# SEE NOTES ON FOLLOWING PAGES.

Ford<sup>®</sup> F53 Chassis- 6.8L Super Duty V10 SOHC Triton<sup>®</sup> engine, 362-hp, TorqShift<sup>™</sup> 5-speed automatic overdrive transmission, hydraulic brakes, 4wheel ABS, 130-amp. alternator, Tire Tools wrench & leverage bar

<sup>c</sup> Workhorse W16-Series 8.1L Vortec V8 340-hp, 4L85-E 4-speed overdrive transmission, hydraulic brakes, 4-wheel ABS, 145-amp. alternator

<sup>o</sup> Workhorse<sup>®</sup> W18-Series 8.1L Vortec V8 340-hp, 4L85-E 4-speed overdrive transmission, hydraulic brakes, 4-wheel ABS, 145-amp. alternator

E Workhorse" W20-Series 8.1L Vortec V8 340-hp, Allison® 6-speed overdrive transmission, hydraulic brakes, 4-wheel ABS, 145-amp. alternator

Trailer Hitch 5,000-lb. drawbar/500 lbs. maximum vertical tongue weight & wiring w/7-pin connector, Wheelcovers (4)

<sup>1</sup>The height of each model is measured to the top of the tallest standard feature and is based on the curb weight of a typically equipped unit. The actual height of your vehicle may vary by several inches depending on chassis or equipment variations. Please contact your dealer for further information. <sup>2</sup> Floorplans feature a wide-body design - over 96". In making your purchase decision, you should be aware that some states restrict access on some or all state roads to 96" in body width. Before making your purchase decision, you should confirm the road usage laws in the states of interest to you.

<sup>3</sup>The load capacity of your motor home is designated by weight, not by volume, so you cannot necessarily use all available space when loading your motor home.

<sup>4</sup>Capacities are based on measurements prior to tank installation. Slight capacity variations can result due to installation applications.

<sup>5</sup>Capacities shown are tank manufacturer's listed water capacity (W.C.). Actual filled LP capacity is 80% of listing due to overfilling prevention device on tank.

<sup>6</sup>Actual towing capacity is dependent on your particular loading and towing circumstances which includes the GVWR, GAWR, and GCWR as well as adequate trailer brakes. Please refer to the chassis operator's manual of your vehicle for further towing information.

<sup>&</sup>lt;sup>4</sup> Ford<sup>®</sup> F53 Chassis- 6.8L Super Duty V10 SOHC Triton<sup>®</sup> engine, 362-hp, TorqShift<sup>™</sup> 5-speed automatic overdrive transmission, hydraulic brakes, 4wheel ABS, 130-amp. alternator, Tire Tools wrench & leverage bar

# **OWNER INFORMATION**

Owner's Name
Street Address
City, State/Province, and Zip
Motor Home Serial Number
Vehicle Chassis Identification Number (VIN)
Vehicle Mileage at Time of Delivery
Selling Dealer Name and Address
•

# **EMERGENCY INFORMATION**

### YOUR WINNEBAGO INDUSTRIES DEALER

Name
Address
Contact Person
Phone
CHASSIS DEALER/SERVICE CENTER
Name
Address
Contact Person
Phone
INSURANCE POLICY
Company
Policy Number
Phone
· ······•

### 2008 NEW VEHICLE LIMITED WARRANTY WINNEBAGO INDUSTRIES, INC.



### WARRANTY COVERAGE TO OWNER

Winnebago Industries, Inc. of Forest City, Iowa, warrants each new Winnebago and Itasca motor home to the owner for recreational use in the U.S.A. and Canada as follows:

### **BASIC LIMITED WARRANTY**

### WINNEBAGO INDUSTRIES' RESPONSIBILITY

Any part of the vehicle subject to this warranty that is found to be defective in material or workmanship under normal use and maintenance will be repaired or replaced at Winnebago Industries' option without charge to the customer for parts or labor upon notice of the defect.

### WARRANTY PERIOD

The basic Warranty Period is 12 months or 15,000 miles (24,135 kilometers), on the odometer, whichever occurs first. The Warranty Period for all coverages begins on the date the vehicle is delivered to the first retail purchaser or first placed in service as a demonstrator or company vehicle.

### **ONLY WARRANTY**

This limited warranty is the only warranty made or authorized by Winnebago Industries. Winnebago Industries makes no other promises, representations or warranties concerning the vehicle or other matters set forth herein. Winnebago Industries does not authorize any person to create for it any other obligations or liability in connection with this vehicle.

### DEALER'S REPRESENTATIONS EXCLUDED

Winnebago Industries shall not be bound by any undertaking, representation, or warranty made by any dealers selling its product to any purchaser of its products.

### EXCLUSIVE REMEDY

THE PERFORMANCE OF REPAIRS IS THE EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY OR ANY IMPLIED WARRANTY. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THIS VEHICLE ARISING BY WAY OF STATE LAW IS LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY AS HEREINBEFORE OR HEREINAFTER PROVIDED.

### LIMITATION ON LIABILITY

WINNEBAGO INDUSTRIES SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF TIME, INCONVENIENCE, OR OTHER CONSEQUENTIAL DAMAGE INCLUDING EXPENSE FOR GASOLINE, TELEPHONE, TRAVEL, LODGING, LOSS OR DAMAGE TO PERSONAL PROPERTY, OR LOSS OF REVENUE. Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitations or exclusions may not apply to you.

### ITEMS NOT SUBJECT TO WARRANTY COVERAGE

Chassis, drivetrain and related components\* Wheels\*

Tires\*

Any other part or component covered by a written warranty issued by its manufacturer\*

Service Items, such as Windshield Wiper Blades, Lubricants, Fluids & Filters

Adjustments

Rust and Corrosion

\*These items are covered under the manufacturer's individual warranty.

### ADDITIONAL EQUIPMENT NOT COVERED

Winnebago Industries cannot and does not accept any responsibility in connection with any of its motor homes for additional equipment or accessories installed at any dealership or other place of business, or by any other party other than Winnebago Industries. Such installation of equipment or accessories by any other party will not be covered by the terms of this warranty.

### 36 MONTH/36,000 MILE STRUCTURAL WARRANTY

At the expiration of the Basic Coverage and for the remainder of the period of 36 months or 36,000 miles (57,924 kilometers), on the odometer, whichever occurs first, Winnebago Industries warrants the following:

- Structural defects of the subfloor, floor, and slide-out room assembly. Floor lamination failure and lamination failure of the subfloor panels and risers are covered by the structural warranty.
- Body Thermo-Panel<sup>®</sup> Lamination of the sidewalls and backwall against delamination. Body Thermo-Panel<sup>®</sup> Lamination is the bonding of the exterior skin and the interior paneling to an insulating core material. Delamination (separation of layers) caused by other factors such as physical damage or failed sealants is not covered by this warranty.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Also, this warranty shall not apply to failures, damage or malfunctions resulting from normal wear, misuse, abuse, negligence, alteration, accident, fire, improper repair of the vehicle or failure to follow recommended maintenance requirements.

### OWNER'S RESPONSIBILITY-CARE AND MAINTENANCE

It is the owner's responsibility to perform the care, maintenance and proper load distribution described in the operator's manual which accompanies your motor home. Any damage which results to your vehicle as a result of your failure to perform such duties, is not covered.

Damage to appearance items such as fiberglass, metal, paint, fabrics and trim, may occur during manufacturing or transporting. Normally, any factory defect or damage is corrected at the factory. In addition, dealers are obligated to inspect each vehicle upon delivery to them and prior to delivery to you. You should also immediately inspect appearance items and advise your selling dealer of any discrepancies. Damage and deterioration due to use and exposure, such as rust or corrosion is not covered by this warranty.

### **OBTAINING WARRANTY REPAIRS**

While any Winnebago Industries motor home dealer can perform warranty service, we recommend you return to the dealership that sold you your vehicle. If you are touring or have moved, contact any Winnebago Industries motor home dealer in the United States or Canada for warranty service.

If a part of the system covered by this limited warranty fails to function or requires service during the warranty period:

- Promptly take the vehicle to the selling dealer for repair or inspection.
- 2. Written notice of defects must be given to the selling dealer and manufacturer.
- 3. If the dealer is incapable of making the repairs, request that he contact Winnebago Industries, Inc.
- If, after the above steps are completed and the repair is not made, the customer should contact Winnebago Industries, Inc., 605 West Crystal Lake Road, P.O. Box 152, Forest City, Iowa 50436, Attention: Owner Relations Department (800-537-1885) and furnish the following information:
  - The complete serial number of the vehicle
  - Date of retail purchase
  - Selling dealer's name
  - Nature of the service problem, and a brief explanation of the steps or service the dealer has performed, and the results obtained. The customer may be directed to another dealer or service center for repairs to be completed, if such a dealer or service center is better able to complete the repair.

Winnebago Industries may, at its option, request the vehicle be returned to Forest City, Iowa for repair. If the customer refuses to allow repairs to be performed at the Forest City, Iowa facility, the warranty on that repair will be voided.

- 5. If after the above steps are completed and the repairs are not satisfactory, the customer may contact the Service Administration Manager of Winnebago Industries, and request a customer relations board meeting to resolve the problem. This action, however, is not mandatory.
- 6. Certain components are covered by warranties provided by individual component manufacturers. Please refer to the component's information supplied in the vehicle's InfoCase.

### COMMENCEMENT OF ACTIONS

Any action for breach of The Basic Limited or Structural Warranty or any implied warranty shall be commenced within one-year after expiration of the warranty.

### CHANGES IN DESIGN

Winnebago Industries, Inc. reserves the right to make changes in design and changes or improvements upon its products without imposing any obligation upon itself to install the same upon its products theretofore manufactured.

### NEW YORK:

If your motor home has been repaired three or more times for the same nonconformity, defect, or condition, or if your motor home has been out of service by reason of repair for twenty-one days, Section 198-a of the General Business Law of the State of New York requires you to provide written notice by certified mail, return receipt requested, to Winnebago Industries or its authorized dealer before making any claim under that section of the law. If you do have problems with your motor home, you should provide written notice to Winnebago Industries at the following address:

Winnebago Industries, Inc. 605 West Crystal Lake Road P.O. Box 152 Forest City, Iowa 50436

Attn: Owner Relations

### CALIFORNIA:

Winnebago Industries participates in the Consumer Arbitration Program for Recreation Vehicles (CAP-RV). This third-party dispute resolution program is available, at no charge to you, to settle unresolved warranty disputes for recreational vehicles. This dispute resolution program reviews eligible product and service related complaints involving warranty covered components.

To find out more about the program, or to request an application/brochure, please call the Arbitration Administration office toll-free 800-279-5343.

The CAP-RV program operates as a certified mechanism under the review of the California Arbitration Certification Program. You must utilize the arbitration program before claiming rights conferred by 15 USC section 2310 (Uniform Commercial Code) or Civil Code section 1793.22(b) (Tanner Consumer Protection Act). You are not required to use the program if you choose to seek redress by pursuing rights and remedies not created by those laws.

Members of the Armed Forces who purchased the vehicle in California, or who were stationed in or a resident of California at the time of purchase (regardless of state of purchase) or who are stationed in California at the time of application to this program, may utilize the CAP-RV program.

Chalet SECTION 2 SAFETY / PRECAUTIONS

# **GENERAL WARNINGS**

- Only seats equipped with seat belts are to be occupied while the vehicle is moving.
- Make sure all passengers have seat belts fastened. Lap belts should fit low on the hips and upper thighs. The shoulder belt should be positioned snug over the shoulder.
- For pregnant women, the lap belt should be placed under the abdomen and across the upper thighs. The shoulder belt should be positioned across the center of the chest. Consult your doctor if you have any questions.
- Child restraints should be installed properly according to manufacturer's instructions. See "Child Restraints."
- All moveable or swiveling seats should be placed and locked in forward facing positions while the vehicle is moving.
- Never let passengers stand or kneel on seats while the vehicle is moving.
- Sleeping facilities are not to be utilized while vehicle is moving.
- Examine the escape window and be familiar with its operation.
- Inspect the fire extinguisher monthly for proper charge and operating condition. This should also be done before beginning a vacation or any extended trip.

# **DRIVING SAFETY**

- Do not attempt to adjust the driver's seat while the vehicle is moving.
- Do not adjust tilt steering in a moving vehicle.
- Do not operate the cruise control on icy or extremely wet roads, winding roads, in heavy traffic, or in any other traffic situation where a constant speed cannot be maintained.
- Use care when accelerating or decelerating on a slippery surface. Abrupt speed changes can cause skidding and loss of control.

- Driving through water deep enough to wet the brakes may affect stopping distance or cause the vehicle to pull to one side. Check brake operation in a safe area to be sure they have not been affected. Never operate any vehicle if a difference in braking efficiency is noticeable.
- Adverse weather conditions and extremes in terrain may affect handling and/or performance of your vehicle. Refer to your chassis manual for related information.

# PROPANE GAS LEAK DETECTOR

Your coach is equipped with one of the propane gas leak detectors shown below. The leak detector sounds an alarm if an unsafe amount of propane gas is present inside the coach.



Propane Gas Leak Detectors (typical)

Because propane gas is heavier than air, the leak detector is located on a cabinet face near the floor of the coach.

# WARNING

Never use an open flame to test for gas leaks. When testing for gas line leaks with a soapy water solution, DO NOT use a detergent containing ammonia or chlorine. These substances may generate a chemical reaction causing corrosion to gas lines, resulting in dangerous leak conditions.

# **Power Connection**

The propane gas leak detector is powered by the house batteries. If the auxiliary battery switch is shut off or the battery cable is disconnected from the batteries, the alarm will not work. The propane gas leak detector fuse or circuit breaker is located in the 12-volt house electrical load center.

Because the propane gas leak detector is connected to the house battery, it is always drawing a small amount of current. Even though this current draw is slight, it could drain the house battery during storage periods when the house battery will not be charged regularly by the engine or shoreline. Turn the Aux. Batt switch OFF to avoid current drain during storage periods.

# **Further Information**

See the manufacturer's information in your InfoCase for further instructions on nuisance alarms and care and testing of the propane gas leak detector.

# CARBON MONOXIDE WARNING

# \Lambda WARNING

Avoid inhaling exhaust gases, as they contain carbon monoxide, which is a colorless, odorless and poisonous gas.

The best protection against carbon monoxide entry into the vehicle body is a properly maintained engine exhaust and ventilation system. It is recommended that the exhaust system and body be inspected by a qualified motor home service center.

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

To allow proper operation of the vehicle's ventilation system, keep front ventilation inlet grill clear of snow, leaves or other obstructions at all times. DO NOT OCCUPY A PARKED VEHICLE WITH ENGINE RUNNING FOR AN EXTENDED PERIOD.

Do not run engine in confined areas, such as a garage, except to move vehicle into or out of the area.

# CARBON MONOXIDE ALARM

Your coach is equipped with a carbon monoxide (CO) alarm located on the ceiling in the bedroom area. The CO alarm is powered by a 9-volt battery and has a sensor that is designed to detect toxic carbon monoxide gas fumes resulting from incomplete combustion of fuel. It will detect CO gas from any combustion source such as the furnace, gas range/oven, water heater, refrigerator, chassis engine, and electric generator engine.

# SECTION 2 SAFETY / PRECAUTIONS



Carbon Monoxide Alarm

# WARNING

Failure to replace this product by the "REPLACE BY DATE" printed on the alarm cover may result in death by Carbon Monoxide poisoning.

# **Further Information**

Please read the information provided by the manufacturer, which is included in your InfoCase. It includes information on precautions, operational testing, and battery replacement.

# Replacement

When replacing this alarm, we recommend replacing only with a similar model. Other brands may not be recommended for RV application.

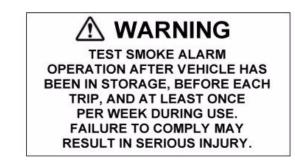
# SMOKE ALARM

Your motor home is equipped with a smoke alarm located on the ceiling in the lounge area. The smoke alarm is powered by a 9-volt battery and has a sensor that is designed to detect smoke.



Smoke Alarm

The following label is affixed to the smoke alarm.



# **Further Information**

See the manufacturer's information in your InfoCase for further instructions on battery replacement and testing of the smoke alarm.

# Replacement

When replacing this alarm, we recommend replacing only with a similar model. Other brands may not be recommended for RV application.

We recommend obtaining a replacement from your Winnebago Industries dealer.

# FIRE EXTINGUISHER

A dry chemical fire extinguisher is located on the wall or floor near the main entrance door.

# SECTION 2 SAFETY / PRECAUTIONS



Fire Extinguisher (typical installation - your coach may vary according to model and floorplan)

We recommend that you become thoroughly familiar with the operating instructions displayed on the side of the fire extinguisher or in the information supplied in your InfoCase.

We also recommend that you inspect the fire extinguisher for proper charge at least once a month in accordance with National Fire Protection Association (NFPA) recommendations as stated on the label.

If the charge is insufficient, the fire extinguisher must be replaced.

# WARNING

Do not test the fire extinguisher by discharging it. Partial discharge can cause leakage of pressure or contents which would render the unit inoperative when needed. When using the fire extinguisher, aim the spray at the base of the fire.

# Replacement

If, for any reason, you must replace the fire extinguisher, the replacement must be the same type and size, or larger, as the one originally supplied in your coach. We recommend obtaining a replacement only from your Winnebago Industries dealer or a reliable RV parts supplier.

# EMERGENCY EXITS

# WARNING

Use care when exiting emergency window, as broken glass may be present in the exit area.

# **Escape Window**

The bedroom escape window is secured by two red safety latches at the bottom of the window.

To open, lift both latches up and toward the center of the window, then push outward near the bottom of the window.



Escape Window - Lift latch handles upward to open.

# Using Slider Windows As Emergency Exits

Some coaches are required to have a slider window as an alternate exit. This window will be marked EXIT and have a red handled latch.



Pull latch outward to slide window open

Most slider windows along the side of any motor home can also be used as alternate emergency exits, should the need arise.

To use a slider windows as an exit, first slide the window open, then either slide the screen open or push the screen material out, depending on window construction.

# FORMALDEHYDE INFORMATION

# WARNING

Some components in this vehicle contain formaldehyde based adhesives which may release formaldehyde fumes into the air for an unknown period of time until total dissipation occurs. Individuals who are allergic to formaldehyde gas fumes may experience irritation to eyes, ears, nose and throat. Reaction in infants may be more severe. Although long range effects are not well understood, testing to date has not revealed any serious health effects in humans at the level of emission from these products.

# MOLD, MOISTURE AND YOUR MOTOR HOME

# What is Mold?

Molds are part of the natural environment. They are as old as the Earth itself. And mold spores are almost everywhere at some level waiting to grow. Mold plays a part of nature by breaking down dead organic matter such a fallen leaves and dead trees. Indoors, however, mold growth should be avoided. Molds reproduce by means of tiny spores. Those spores are invisible to the naked eye and float throughout the outdoor and indoor air. Because of the nature of the use of a motor home, it is natural for a motor home to be introduced into an environment with mold spores.

Mold is a plant and requires its own special environment to grow. That environment includes organic materials, nutrients, moisture, and proper temperature.

# How Can I Avoid Mold?

To reduce the ability for mold to grow, you must reduce what constitutes its growth environment. Mold can grow with the smallest of a nutrient base. Just small amounts of dirt or dust on the carpet can be enough to allow the mold process to begin. Keep the environment as clean as possible. Vacuum the carpet. Clean food spills thoroughly and quickly. Avoid grease buildup near the stove or sink. Clean the exhaust fan above the stove often.

Minimize moisture in your motor home and keep humidity low. Clean spills quickly. Do not allow condensation to build up. You can open windows and vents to minimize condensation. Use of the air conditioner can assist in removing moisture from the air. Avoid leaks and if leaks do occur, make repairs promptly.

Avoid bringing mold into your motor home. Plants, cloths, books, and other household items may already have mold present. It is easy to transfer mold into your motor home environment.

# SECTION 2 SAFETY / PRECAUTIONS

Monitor your motor home. Periodically check those hidden areas in corners, closets, and cabinets to assure mold is not present.

# What if I Have Mold?

If mold develops, clean the area with a concentrate of soap and bleach. Items that contain mold that cannot be cleaned should be removed from the vehicle.

# Can Mold Harm Me?

The effects of mold and airborne mold spores may cause irritation to some people. Experts disagree on the level of exposure that may cause health concerns.

# If Mold Is Present, What Will Winnebago Industries Do?

If Winnebago Industries determines that mold is present in the Winnebago/Itasca motor home as a result of a manufacturing defect reported to Winnebago Industries within the limited warranty period, Winnebago will clean the affected areas and/or replace affected items as it deems necessary. This is the extent of coverage provided by Winnebago Industries. Winnebago Industries, however, will not assume responsibility for mold deemed to be a result of a motor home users lack of timely and appropriate action to mitigate circumstances should a problem occur.

If Winnebago Industries determines that mold is present due to conditions it determines is not a result of a manufacturing defect found within the warranty period, Winnebago Industries will not provide any financial assistance to the repair of the condition.

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# **ROADSIDE EMERGENCY**

Because of the size and weight of this vehicle and its tires, and the possible complications involved in tire changing, we strongly advise obtaining professional road service to change a flat tire whenever possible. However, if an emergency requires you to change the tire yourself, please exercise extreme caution and read all tire changing information in the chassis manual.

Never get beneath a vehicle that is held up by a jack only.

# If You Get A Flat Tire

- DO NOT panic.
- Grip the steering wheel firmly and steer the vehicle as straight as possible. Avoid quick maneuvers. You may need to counter-steer to compensate for "pull" created by the failed tire.
- DO NOT stomp on the brake. This abruptly shifts the vehicle's weight forward, making it nose-dive and pull toward the blown-out side.
- DO NOT jerk your foot off the accelerator. Just ease back on the accelerator slowly and gently to continue momentum. The deflated tire will slow the vehicle.
- If you must change lanes to get to a safe stopping place, use your signals to warn other motorists and change lanes smoothly and carefully after you are certain the lane is clear.
- Let the vehicle coast to a stop, gently steering to a safe stopping place off the traffic lanes of the road. Don't worry about damaging the tire or wheel rim by driving on it. A tire or wheel replacement is cheaper than damaging the vehicle or injuring yourself.
- When you have come to a stop, activate your hazard flashers to warn other motorists, then exit the vehicle carefully.
- Set out flares or other warning devices.

Check your tires for proper inflation before each trip and at least once a month with an accurate tire gauge.

# Spare Tire Storage –If Equipped

If your coach is supplied with a spare tire, it may be fastened to the backwall of the coach or inside a rear exterior storage compartment.

# Chalet D-Series Class-A

Some models, however, may have a swingdown spare tire carrier beneath the rear of the coach. Please follow all safety warnings and instructions for removing spare tire from the carrier.

# Swing-Down Carrier –If equipped

# \land WARNING

Do not lie beneath tire carrier while removing tire. The tire and carrier assembly are heavy.

- Support tire carrier with a jack or block while removing wire pin and wing nut from bolt at front of carrier.
- Carefully lower tire carrier to ground.
- Remove 2 bolts and retainer plate that hold wheel to carrier bracket.
- Lift or slide tire from carrier.
- Do not over-tighten wing nut when returning carrier to storage position.

# **Recovery Towing**

When calling a professional towing service, we recommend that you advise them of your coach length and approximate front axle weight listed on your Vehicle Certification Label. This will allow the towing operator to determine the proper towing equipment to use.

We recommend that you ask for an underlift (wheel lift or frame lift) type towing assembly for safe towing.

Winnebago Industries does not assume responsibility for damage incurred while towing this vehicle.

NOTE: Consult the chassis manual for any additional towing instructions or precautions provided by the chassis manufacturer.

# 

Do not lift on bumper. Damage will result to front end body parts.

# \land WARNING

Stay out from beneath the motor home while it is suspended by the towing assembly unless the vehicle is adequately supported by safety stands. Do not allow passengers to occupy a towed vehicle.

# JUMP STARTING

If your coach will not start from the chassis battery, try using the battery boost switch to divert power from the house batteries to the starter. (See either "Battery Boost Switch" or "Aux Start Switch.")

If you wish to try jump starting the engine using another vehicle or booster system, see your chassis manual for connecting jumper cables to the automotive electrical system.

# WARNING

Do not attempt to push start this vehicle. Damage to the transmission or other parts of the vehicle will occur.

# **ENGINE OVERHEAT**

If you see or hear steam escaping from the engine compartment or have any other reason to suspect an extreme engine overheating condition, pull the vehicle over to the roadside as soon as it is safe to do so, stop the engine and get all passengers out of the vehicle.

# SECTION 2 SAFETY / PRECAUTIONS

# WARNING

Operating a vehicle under a severe overheating condition can result in damage to the vehicle and may result in personal injury.

For information on what to do in case of overheating, consult your chassis manual.

# **Chalet** SECTION 3 DRIVING YOUR MOTOR HOME

The information in this section refers only to features installed or adapted to the dash and driver compartment area by Winnebago Industries. It also includes passenger seating in the living area of the coach.

See your chassis manual for all original chassis related controls, instrumentation, switches and other features. This includes items such as cruise control, parking brakes, gauges, wipers, lights, etc.

# SEATS

The driver and co-pilot seats may be independently adjusted to suit individual preference. To move the seat forward or backward, lift the slide release paddle, located on the side of the seat, and exert slight body pressure in the direction desired.

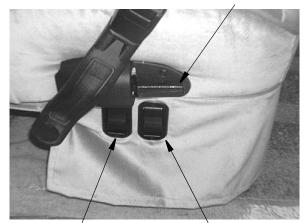
The seats may be swiveled to provide easy entrance and exit. The swivel feature also allows the seats on some models to be turned toward the living area for additional seating while the unit is parked.

# To Swivel the Seats

Lift the release lever, located on the side of the seat, and rotate seat. The seats are designed to lock only when returned to the forward facing position.

# To Recline the Seats

Lift the reclining lever, lean back to desired incline and release the lever. To return to the upright position, lift the lever and lean body forward. Allow the seat to return to the desired position and release the lever. Lift to Recline



Lift to Swivel

Lift to Slide

Driver Seat - Aisle Side

# WARNING

Do not adjust driver's seat while vehicle is in motion.

After adjusting seat, always use body pressure to make sure slide and swivel locking mechanism have engaged.



Passenger Seat - Aisle Side (Recline lever on opposite side)

### FOLD-DOWN DINETTE SEAT (Models without front slideout and with dinette seat directly behind driver or passenger front seat)

On some models, the dinette seat located directly behind the driver or passenger front seat must be folded down to allow front seat reclining.



Folding Dinette Seat Back

- Remove dinette seat backrest cushion
- Unfasten bolt latch at aisle side of seat)



• Fold dinette seat backrest down to recline front seat

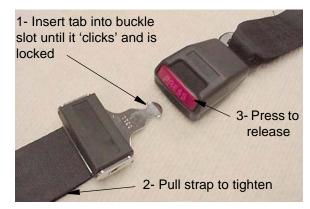
\*Typical view- your coach may vary according to model and floorplan

# SEAT BELTS

Seats intended for occupancy while the vehicle is in motion are equipped with seat belts for the protection of the driver and passengers.

# Lap Belts

The lap belts must be worn as low as possible and fit snugly across the hip area. Always sit erect and well back into the seat. To gain full protection of the safety belt, never let more than one person use the same safety belt at any one time, and do not let the safety belts become damaged by pinching them in the doors or in the seat mechanism. After any serious accident, any seat belts which were in use at the time must be inspected and replaced if necessary.



### Adjustment

To lengthen belt, swivel the tab end at a right angle to belt and pull strap to desired length. To shorten, pull loose end of belt.

# To Fasten

Be sure belt is not twisted. Grasp each part of the belt assembly and push tongue into buckle. Adjust to a snug fit by pulling the loose end away from the tongue.

# To Release

Press button in center of buckle and slide tongue out of buckle.

# SECTION 3 DRIVING YOUR MOTOR HOME

# WARNING

Snug and low belt positions are essential. This will ensure that the force exerted by the lap belt in a collision is spread over the strong hip area and not across the abdomen, which could result in serious injury.

Only seats equipped with seat belts are to be occupied while vehicle is in motion.

# Lap/Shoulder Belts

### Fastening

Hold the belt just behind the tongue using the hand nearest to the door. Next, bring the belt across the body and insert the tongue into the buckle until the latch engages.

### Unfastening

Press the release button in the buckle. Hold onto the tongue when you release it from the buckle to keep it from retracting too rapidly.

When the lap-shoulder belt is in use, the lap belt must ride low across the hip area and the shoulder belt must ride diagonally over the shoulder toward the buckle.

The shoulder belt is designed to lock only during a sudden stop, sudden body movement or a collision. At all other times it will move freely with the occupant.

# WARNING

Never wear the shoulder belt in any position other than as stated above. Failure to do so could increase the chance or extent of injury in a collision.

# Seat Belt Care and Cleaning

• Be careful not to damage the belt webbing and hardware. Take care not to pinch them in the seat or doors.

- Inspect the belts and hardware periodically. Check for cuts, frays, and loose parts. Damaged parts should be replaced. Do not remove or modify the belt system.
- Keep belts clean and dry. If the belts need cleaning, use only a mild soap and water solution. Do not use hot water. Do not use abrasive cleaners, bleach or dyes. These products may weaken the belts.
- Replace any belt assembly that was used during a severe impact. Replace the complete assembly even if damage is not apparent.

# **CHILD RESTRAINTS**

A properly installed and secured child restraint system can help reduce the chance or severity of personal injury to a child in an accident or during a sudden maneuver. Children may have a greater chance of being injured in an accident if they are seated in a child restraint system which is not properly secured.

A child restraint system is designed to be secured in a vehicle seat by a lap belt or the lap belt portion of a lap-shoulder belt.

When purchasing a child restraint system, follow these guidelines:

- 1. Look for the label certifying that it meets all applicable safety standards.
- 2. Make sure that it will attach to your vehicle and restrain your child securely and conveniently so that you are able to install it correctly each time it is used.
- 3. Be certain that it is appropriate for the child's height, weight and development. The instructions and/or the regulation label attached to the restraint typically provides this information.
- 4. Review the instructions for installation and use of the restraint. Be sure that you understand them fully and can install the restraint properly and safely in your vehicle.

# SECTION 3 DRIVING YOUR MOTOR HOME



# **Tether Anchor Loop**

If your coach has a dinette, it may be equipped with a child seat tether anchor loop located on the floor directly behind the forward facing dinette seat.



The dinette table must be in the lowered position when a child seat is in use.



1. Lower the dinette table.

- 2. Route the tether over the top of the dinette seat back and hook it to the anchor loop on the floor.
- 3. Fasten the lap belt.

See the child seat maker's specific instructions for proper attachment and adjustment of the tether and seat belts.

# KEYS

Your motor home is supplied with several keys. In addition to the chassis manufacturer's ignition key, you receive keys for the entrance door and exterior compartment doors.

Keys have an identification number, either a small metal tag or stamped into the key head. These numbers are recorded on the vehicle's component model/serial sheet which is included in your InfoCase. In case keys are lost or stolen, your dealer or a locksmith can provide you with duplicate keys or modify the locks.

# REARVIEW MONITOR SYSTEM –If Equipped



The rearview camera monitor system lets you see what's directly behind your coach for maneuvering assistance and safety. Optional sideview cameras\* also allow you to see what's beside you before turning or changing lanes.

The monitor screen 'wakes up' automatically when transmission is shifted into Reverse. A microphone built into the rear camera lets you hear warning sounds or verbal directions from an assistant.

# **Basic Operating Instructions**



**Power** - Turn ON to activate monitor for rear viewing while driving or parked. Key must be on. In OFF position the monitor is 'asleep' and will 'wake up' when the transmission is shifted into Reverse.

# Camera -

CA1= Rear or Side\* cameras CA2= not used

**Day/Night -** Press to adjust contrast and brightness for nighttime and daytime lighting conditions. After making adjustments, button is used to switch between settings.

Volume, contrast and brightness are self-explanatory.

\*Sideview Cameras– if equipped. The optional sideview cameras activate with the corresponding turn signals and replace the rear camera view on the monitor until the turn is completed or the signal lever is canceled manually.

# **Further Information**

See the rearview monitor manufacturer's complete operating information in your InfoCase.

# POWER ELECTRIC MIRRORS –If Equipped

Always adjust mirrors for maximum rear visibility before driving off. Make sure the seat is adjusted for proper vehicle control and that you are sitting back squarely into the seat.

# **Mirror Adjustment Control**

The mirror control is located on the driver side armrest panel or the dash. The ignition key must be on to adjust the mirrors.

# Press arrow buttons move mirror in direction indicated



Move L or R to select mirror, or center for "neutral".

### **Mirror Adjustment Control**

- Mirror surface tilts in direction of arrow button pressed.
- Middle switch selects L or R mirror to adjust.
- Center position is 'neutral' to disable arrow buttons and prevent misadjustment of mirrors.

# **Mirror Heaters**

The mirrors may also contain heating elements to defog or de-ice the mirror glass during cold weather operation. An ON-OFF switch for the mirror heaters is located near the remote mirror controls.

# **Mirror Arm/Head Adjustment**

If you cannot adjust a mirror properly using the control switch, the mirror may need a coarse adjustment by rotating the mirror head.

# SECTION 3 DRIVING YOUR MOTOR HOME





Mirror Head Pivot Lock Loosen Allen head set screw to pivot mirror head.\* (Torque 75-100 in/lbs)

\*Set screws may be located on the opposite side of the mirror arm. Passenger side mirror is similar.

# FOOT-PEDAL PARKING BRAKES

# (20,700 & 22,000 lbs GVWR Workhorse Chassis-All Ford Chassis)

The parking brake foot pedal and release lever are located beneath the left side of the dash.

Step the pedal down fully to apply and pull the brake release knob to disengage.

# AUTOMATIC / PULL-BUTTON PARKING BRAKES (24,000 Lbs GVWR Workhorse Chassis)

This chassis is equipped with parking brakes that apply automatically when the transmission is shifted into Park.

The pull-button parking brake knob is located on the dash to the right of the steering column.

The pull-button knob can be used to apply the park brake when the coach is in neutral or any gear other than park.



Note: Never drive your vehicle with the parking brake set. It will reduce parking brake effectiveness and cause excessive wear.

See your chassis manual for further information

# GRADE BRAKE Workhorse 20,700 GVWR chassis and greater only

This feature will enable the transmission to control the speed of the vehicle on long downhill grades to help avoid brake overheating and unnecessary brake wear.



### To Activate the Grade Brake

- Press the Grade Brake switch on the left side of the dash to activate the feature.
- A green icon will appear on the instrument cluster when the grade brake system is active.



- Press and release the brake pedal once- the grade brake will downshift the transmission
- grade brake will downshift the transmission a gear to help control the vehicle speed.
- Press the accelerator to reset the transmission to shift normally until the next time you press the brake pedal.
- Turn the Grade Brake system off when not on steep or long downhill grades.

The grade brake has a built-in, self-protection feature that will not allow the transmission to downshift at high speeds which could damage the transmission or engine if downshifted.

# OVER-DRIVE SWITCH Workhorse 20,700 GVWR chassis and greater only

The Overdrive Switch allows you to deactivate the automatic overdrive feature of the transmission when necessary.



When this switch is ON, the transmission will automatically shift to the overdrive gear whenever possible for greatest fuel economy.

Some driving situations, however, may require the transmission to be temporarily disabled from shifting into overdrive gear, such as when towing a car or trailer, driving in rolling hill country or driving into a strong headwind where the transmission will repeatedly shift up and down causing annoyance and reduced fuel economy.

See your chassis manual for further information on this switch.

# TOW/HAUL TRANSMISSION MODE (Ford Chassis only)

### This mode locks out Overdrive and helps reduce gear 'hunting' by the automatic transmission while towing. It also improves power delivery and uses engine braking to help control vehicle speed when descending hills.

This mode may also be useful when the coach is fully loaded or when driving into a strong headwind.



Press the button at the end of the shift lever to engage Tow/Haul Mode when pulling a trailer or tow vehicle.

See your chassis manual for further operating instructions and cautions.

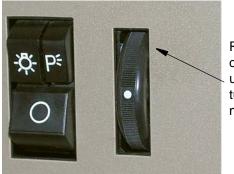
# MAP LIGHT SWITCH

Turn the driver side map light on using the Panel Dim thumbwheel. Roll it up to maximum position until you feel it click into the map light 'on' position.

See your chassis manual for further information on this switch.

# SECTION 3 DRIVING YOUR MOTOR HOME





Roll panel light dimmer wheel upward fully to turn driver side map light on.

# HAZARD WARNING FLASHERS

The hazard warning flashers provide additional safety when the vehicle must be stopped on the side of the roadway and presents a possible hazard to other motorists. When the flashers are on, it serves as a warning to other drivers.

See your chassis manual for instructions on activating, operating and canceling hazard warning flashers.

# **BATTERY BOOST SWITCH**

This switch can be used to draw emergency starting power from the house batteries to start the engine if the chassis battery is discharged.

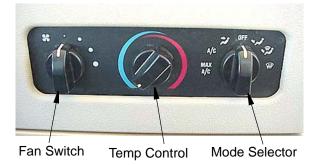
Press and hold in the ON position while turning ignition key for emergency starting power.

NOTE: The Aux. Battery Disconnect switch near the entrance door must be ON and house batteries must be sufficiently charged for this feature to work.



# AUTO AIR CONDITIONER/ HEATER

Controls for the air conditioner, heater, defroster and vent are all combined into one control panel.



# **Further Information**

Please read the information provided by the manufacturer, which is included in your InfoCase.

NOTE: The dash air conditioner is not designed to cool the entire interior of the coach, but is intended only to provide cooling the cab area.

# REAR COACH HEATER –If Equipped

To provide auxiliary heat to the rear of the vehicle, turn the rear heater fan switch to the desired speed. The switch has three positions: High, Low and the middle position is Off.



# DEFROST FANS –If Equipped

The two-speed auxiliary fans are intended to assist the automotive windshield defroster system in clearing fog and frost in cold weather or humid conditions. The middle position on the switch is OFF.



# **IN-DASH RADIO**

The radio in your coach can receive AM/FM stereo and Weather band stations. It also has a compact disc (CD) player for your listening enjoyment through quality high-output speakers located in several areas of the coach.



Please refer to the manufacturer's operating guide in your InfoCase for detailed instructions on programming preset station buttons and using this full-featured radio/audio system.

# Satellite Radio –If Equipped

Your coach may be equipped with a Sirius satellite radio receiver that plays through your radio. See the radio manufacturer's information in your InfoCase for programming and operating instructions.

NOTE: If your Sirius tuner is not activated, follow the instructions in the radio owners manual in your InfoCase for the phone number to call and procedure to access the Sirius Tuner ID Number (ESN).

# **Radio Remote Controls**

A steering wheel mounted remote control for the radio lets you change radio stations or CD selections without taking your eyes off the road or hands off the wheel. See the radio owner's guide in your InfoCase for remote control instructions.



Radio Remote Control (typical)

An additional hand-held remote allows these same conveniences for the passenger. The handheld radio remote is in your InfoCase.

# **Radio Power Switch**

The radio power switch on the dash lets you connect the dash radio to the coach batteries when the ignition switch is turned off for

# SECTION 3 DRIVING YOUR MOTOR HOME

listening while parked. This prevents accidental draining of the chassis battery by prolonged use of the radio.

NOTE: The Aux. Battery Disconnect switch must be on while listening to the dash radio because the audio relay is powered by house batteries. If the Aux Batt switch is off, the speakers will not emit sound.



**Radio Power Switch** 

- Press ENGINE to listen to the radio while parked without the ignition key on.
- Press HOUSE to listen while driving.

# **CB RADIO POWER WIRING**

Your coach is pre-wired for CB radio power connection. The wires are located beneath the dash to the left of the steering wheel.

Look for a pair of wires, yellow (+) and white (-), with connectors and flag labels, suspended from the wiring harness.



CB Power Wires (in plastic sheath) typical view - your coach may differ slightly

# **ENGINE ACCESS**

# Hood

Insert the tamper-resistant hood key into the hood locks and turn them to the right (clockwise) to unlock the hood.

Swing the hood outward and down. Do not let hood drop.

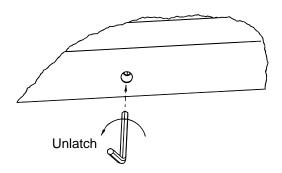
To close the hood, lift and swing inward. Turn key locks to the left (counterclockwise) to lock hood closed.

With the hood open, the engine oil dipstick, oil fill, radiator fill, power steering reservoir and windshield washer reservoir are accessible.

Some chassis also allow access to the engine air filter element.

# **Engine Cover**

• To remove the engine cover, insert the supplied hex wrench into the hole in the rear top or edge of the engine cover. Turn the hex wrench to the left (counterclockwise) to unlatch.



- NOTE: There may also be screws to remove at the lower front corners.
- Lift the rear end of the cover upward and slide rearward, then pull the cover from the opening.
- NOTE: On some models the beverage tray (if equipped) may need to be removed to provide additional clearance to extract the engine cover.

If the beverage tray has a drawer, it must be removed to expose the fasteners that hold the tray to the motor cover.

# Chalet D-Series Class-A

- To reinstall the engine cover, position the front end of the cover first, then lower the rear end. It is important to be sure the front edge is pushed completely forward to the radiator cover to ensure an air-tight seal.
- Press the rear end of the cover down and turn the hex wrench to the right (clockwise) until the latch pulls the cover downward and stops.

# **ENGINE COOLING SYSTEM**

Do not remove the radiator cap while engine and radiator are still hot. Always check coolant level visually at the see-through coolant reservoir.

NOTE: Your chassis engine cooling system is filled with special extended-life coolant that is not the same as common antifreeze available at retail outlets. The coolant system MUST be refilled or topped up with the same type of coolant as equipped to maintain the special longlife properties.

# **A**CAUTION

When refilling the coolant system of a vehicle equipped with a rear auxiliary automotive heater and motoraid water heater, be sure to allow for additional coolant capacity of the heater and its supply and return hoses.

Refer to your chassis manual for information and precautions on filling, servicing and checking the fluid level.

# TIRES

Improper tire pressure can result in tire overloading and abnormal wear and also affects handling, ride characteristics and fuel economy.

# \land WARNING

Make sure all replacement tires are of the same size and ply rating as those installed as original equipment.

See your Vehicle Certification Label for tire information.

# SUSPENSION ALIGNMENT AND TIRE BALANCE

The front suspension and steering system of this vehicle was factory aligned using highly accurate equipment prior to delivery to the dealership. However, alignment should be checked and adjusted, after you have fully loaded the motor home according to your personal needs. Thereafter, the alignment should be periodically inspected to help prevent uneven tire wear.

Any excessive or abnormal tire wear may indicate worn or misaligned suspension or steering, unbalanced tire or other tire/suspension problem.

Alignment can be affected by worn steering/ suspension parts or by incidents which happen during driving, such as hitting a curb, pothole or railroad track, etc. Improper alignment can cause tires to roll at an angle and wear unevenly. It may also cause the vehicle to "pull" to the right or left. Have your dealer inspect your vehicle's suspension and steering components periodically for misalignment or wear.

Out-of-balance tires will not roll smoothly and can lead to vibrations and uneven tread wear such as cupping and flat spots. Tires may need to be balanced if uneven wear is detected or if ride comfort decreases noticeably.

See your chassis manual for further information.

# Chalet D-Series Class-A

# LIGHTS

All exterior lights should be checked for proper operation each time the vehicle is prepared for a trip. Any bulbs which fail to light should be checked and replaced, when necessary, with a new bulb of the same size. A failure of more than one light, such as both taillights not operating, may indicate a burned out fuse. Check fuse and replace with one of the same rating when necessary. If a fuse is not the cause of the problem, the wiring system should be checked immediately by an authorized service center.

Refer to your chassis manual for further information.

# AUTOMOTIVE 12-VOLT FUSES AND CIRCUIT BREAKERS

The automotive fuses and breakers are conveniently located behind the panel beneath the left end of the dash in front of the driver's seat.

The circuit breakers will pop outward if they are tripped. Simply push in to reset.

Always replace plug-in blade fuses with ones of the same size and amperage rating/color.

See your chassis manual for further information about chassis supplied fuses.



Automotive Fuse/Breaker Panel (beneath left end of dash)



# **MOUNTAIN DRIVING**

Special techniques must be used when driving in mountainous or hilly country.

# **Climbing A Hill**

The transmission will automatically downshift as needed to climb most hills. If the hill is long or very steep, however, you may need to manually shift to a lower gear to keep the transmission from repeatedly upshifting and downshifting. Select the lowest adequate gear range for the duration of the incline. See your chassis manual for specific information.

# 

Observe the engine temperature gauge more frequently than normal. If overheating occurs, pull off to the side of the road and allow the engine to thoroughly cool before refilling the radiator and restarting the engine.

# **Descending A Hill**

When going down a long grade, you may need to manually shift to a lower gear rather than keeping your foot on the brake pedal. A lower gear will allow the engine to provide a degree of braking action. Holding your foot on the brake pedal for an extended period may cause brakes to



overheat, which could cause you to lose control of the vehicle. See your chassis manual for specific information.

# Chalet SECTION 4 APPLIANCES & SYSTEMS

The appliances installed in your motor home are manufactured by reputable RV appliance makers and have been tested by independent laboratories to meet all applicable standards and codes set for RV appliances.

# REFRIGERATOR

The refrigerator in your coach can operate from either of two energy sources available to the motor home:

- 120-Volt AC electric
- Propane gas

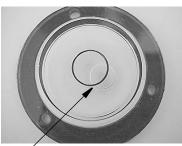
To be able to use both types of energy, the refrigerator does not have a compressor like household refrigerators. Instead, it uses an ammonia-water solution for cooling. Basically, ammonia vapor is distilled from the solution by heat produced from either propane gas flame or electrical heat element. The ammonia vapor is then carried to the finned condenser where it liquefies. The liquid then flows to an evaporator where it creates cooling by evaporation. The ammonia circulates back into the water solution and the cooling cycle continues.

# Leveling

Before operating the refrigerator when the motor home is stationary, place a small level on the bottom of the refrigerator and make certain the unit is level. If over 1/2 of the bubble is inside the circle in any direction, the coach is level enough for continuous operation of the refrigerator while parked.



Place bubble level in bottom of refrigerator



Bubble must be at least 1/2 inside circle

Normal vehicle leveling to provide comfort for the occupants is satisfactory for refrigerator operation.

# 

To prevent permanent damage to the refrigerator cooling unit, turn the refrigerator off if the vehicle will be parked on an incline of over 3° side-to-side or 6° front-to-rear (such as steep driveways or parking lots, etc.) for more than one hour.

# **Basic Operation**

Slide the control switches to the operating positions described and observe the indicator lights.



• **Gas-** Refrigerator will operate on gas from the propane tank if the main valve is open and the tank contains gas.

# SECTION 4 APPLIANCES & SYSTEMS

- Auto- Refrigerator will operate on 120-VAC household current if the shoreline is connected or the auxiliary generator is running. If electricity is lost, it will automatically switch over to Gas operation if gas is available.
- **Temperature Setting-** Start at the 'coldest' setting to ensure coldest temperature in the freezer compartment, then adjust warmer as necessary after cold\* food has been added.
- **'On' Indicator Light-** Glows steady when refrigerator is operating properly.
- **'Gas' Indicator Light-** Will flash if gas is not available. To operate the refrigerator you must provide 120VAC then switch to Auto operation.

\* The refrigerator will retain temperature more efficiently if food is cold before placing inside.

# **Further Information**

For further information and operating cautions, see the refrigerator operating instructions included in your InfoCase.

# REFRIGERATOR SERVICE ACCESS COMPARTMENT (Exterior)

The exterior refrigerator service compartment allows access to the rear of the refrigerator for inspection, maintenance and service.

# To Open:

1. Use a screwdriver or coin to turn the latch knobs to the vertical position as shown.



Refrigerator Access Door Latches

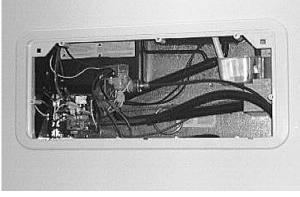
2. Remove the door from the opening.

# To Close:

- 1. Replace the door into the opening.
- 2. Push the latch knobs in while turning to the horizontal position as shown.

Chalet

**D-Series Class-A** 



**Refrigerator Access Compartment** 

# RANGE AND OVEN –If Equipped

The range and optional oven in your motor home operate on propane gas and will provide most of the functions of the range in your home.



To Light Range Top Burners

- Turn the desired burner knob to HI LITE position
- Immediately spin the IGNITOR knob clockwise at least one full turn to light the burner

If equipped with an oven, the oven knob has a "Pilot Off" position to turn the oven pilot off when traveling or refilling the propane tank.





#### Oven Burner Knob –If Equipped

- Pilot On position keeps pilot flame lit for repeated use of oven while vehicle is parked
- Turn oven knob to Pilot Off position while traveling or refilling propane gas tank

#### To Light Oven Pilot

• See USING THE OVEN in the manufacturer's RV Cooking Appliance Use and Care guide in your InfoCase.

# **Avoiding Asphyxiation**

The following warning label has been located in the cooking area to remind you to provide an adequate supply of fresh air for combustion.

### A 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 or turn on exhaust fan.

2. Open window

FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.

Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliances avoids 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.

FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.



Portable fuel-burning equipment including wood and charcoal grills and stoves, shall not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle can cause fires or asphyxiation.

### **Further Information**

See USING THE COOKTOP and USING THE OVEN in the appliance manufacturer's RV Cooking Appliance Use and Care guide in your InfoCase.

### **MICROWAVE OVEN**

For complete operating instructions, refer to the manufacturer's information provided in your InfoCase.

### **RANGE HOOD**

The range hood vent draws cooking odors and airborne grease particles into the filtration grid and recirculates the air or vents it to the outside of the coach.

A light on the underside of the hood provides illumination for cooking and food preparation.

## **Further Information**

See the manufacturer's information provided in your InfoCase for instructions on replacement of light bulbs and replacement or cleaning of grease filter elements.

## SYSTEMS MONITOR PANEL

The Systems Monitor Panel provides a convenient central location for checking the condition of all utility systems in your coach.

### SECTION 4 APPLIANCES & SYSTEMS





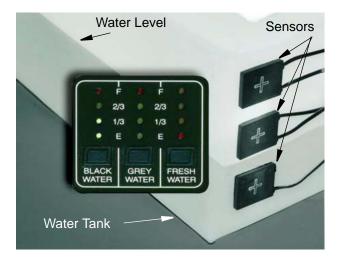
At the touch of a button this panel will display the fresh water and holding tank levels, propane gas tank level, plus the house battery condition. You can start the generator or turn on the water pump and water heater. Indicator lights tell you if the water pump is on or if the water heater pilot light is out.

### Water And Holding Tank Levels

Press and Hold the "Levels Test" switch to show approximate level on the monitor lights.



The approximate fluid levels are measured by electronic sensors on the sides of the tanks. There is generally more fluid in a tank than indicated on the monitor panel.



For example, if the fluid level is 1-2" below the FULL sensor, the monitor will show the level to be only 2/3 even though the tank is nearly full.

If a tank is about 1/4 full, the monitor will register an empty tank because the fluid level is below the 1/3 sensor even though there is still fluid in the tank.

However, when the indicator reads FULL, the tank is actually full.

### **Tank Capacities**

See "Tank Capacities" in Introduction section.

## **Propane Gas Level**

Press and Hold the "Levels Test" switch to show approximate propane tank level.

The propane level is registered by a sending unit on the tank. The gauge mounted on the side of the tank will give a more accurate indication of actual tank level if needed.

### **Battery Charge Meter**

Press and Hold the "Levels Test" switch to check the level of charge (voltage) in the 12-volt house battery.

The colored segments (red, yellow and green) will light from the bottom up to the amount of charge the battery contains.

- Green good or adequate charge.
- Yellow marginal charge.
- Red battery needs charging before use. To get an accurate reading;

# Chalet D-Series Class-A

- 1. Both the chassis engine and the generator engine must be shut off and 120 Volt AC shoreline unplugged.
- 2. An interior light should be turned on to provide a small load which draws off the battery surface charge.

### Water Pump Switch

When use of the self-contained water system is desired, turn the "Water Pump" switch on. The "Pump On" light will illuminate when the pump switch is on and the system is operable. Water will be available as soon as a faucet is opened. Refer to "Water Pump" for additional information on the water pump and initial startup.



(Some models may also have a pump switch in the water system compartment on the outside of the coach.)

# WATER HEATER - GAS

Read the Water Heater Operating Guide in your InfoCase for complete safety warnings, operating instructions and maintenance information before operating the water heater.

#### Be sure the water heater is filled with water before starting either electric or propane operation.

To fill the water heater, turn the Water Pump switch on and open a hot water faucet anywhere in the coach. When water begins to flow steadily from the faucet, the water heater is full.

### **Propane Gas Operation**

• Press the Water Heater switch on the Monitor Panel.



- The "Pilot Out" light will glow for about 10-15 seconds, then it will go out. The "Heater On" indicator will remain lit.
- If the "Pilot Out" light comes on during propane operation, it means that the burner has gone into "lockout" mode and must be restarted. If this happens, turn the Water Heater switch off for about 5 minutes, then turn it back on.

# WATER HEATER - GAS/ ELECTRIC –If Equipped

#### (with Motor Aid water heating system)

The gas/electric water heater has a dual power feature. It can operate from propane gas or 120volt house current; or it can use both at the same time for quicker recovery at times when you are using a lot of hot water.

Read the Water Heater Operation Manual for complete Safety Warnings, Operating Instructions and Maintenance Information before operating the water heater.

Be sure the water heater is filled with water before starting either electric or propane gas operation. To fill the water heater, turn the Water Pump switch on and open a hot water faucet anywhere in the coach. When water begins to flow steadily from the faucet, the water heater is full.

### SECTION 4 APPLIANCES & SYSTEMS



### For Propane Gas Operation

Press the Water Heater switch on the Monitor Panel. The "Pilot Out" light will glow for about 10-15 seconds, then it will go out. The "Heater On" indicator will remain lit. If the "Pilot Out" light comes on during gas operation, it means that the burner has gone into "lockout" mode and must be restarted. If this happens, turn the Water Heater switch off for about 5 minutes, then turn it back on.

See the water heater user's guide in your InfoCase for further information.



Gas Water Heater Switch on systems monitor panel

## **For Electric Operation**

Turn on the Water Heater electric element switch. The shoreline must be connected or generator running for electric operation.



Electric Water Heater Switch typically located near systems monitor panel

# For Quick Recovery Operation (Dual Heating)

Turn On both Water Heater switches; the gas one on the monitor panel and the electric one. This will help reheat the water heater tank more quickly than a single source would alone. Use this mode when you are using a larger than normal volume of hot water.

### **Operating Instructions**

Read the operating and safety information provided in the Water Heater Operation Manual in your InfoCase.

# MOTOR AID WATER HEATER –If Equipped

The motor aid uses heat from the chassis engine cooling system to heat water in the water heater while driving. Hoses are routed from the engine to a heat exchanger surrounding the water heater tank.

Under normal conditions, the entire contents of the water heater can be heated in about two hours or 100 miles of driving. This means you can have hot water at the faucets immediately upon arriving at a site.

The motor aid also increases the capacity of the engine cooling system, allowing the engine to run cooler under many conditions.

# $\triangle$ caution

Any leak in the heat exchanger or its supply or return lines could cause loss of coolant and subsequent engine failure. We recommend that you periodically inspect these connecting lines and the heater to insure that no leaks have developed.

# PRESSURE-TEMPERATURE RELIEF VALVE

On occasion, water may be seen seeping from the water heater pressure temperature relief valve. This is no cause for repair or replacement of the valve.



Water Heater Exterior Service Access

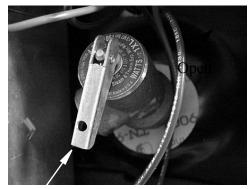
Normally there is an air gap at the top of the water heater tank which acts as a pressure buffer. In time, however, heated water may expand and fill this air gap, causing a slight increase in water pressure. This may cause the P-T valve to "weep" until the air gap is manually replaced.

# **A**CAUTION

Operate this valve only when the water heater and engine cooling system are cold!

# To Replace the Air Gap:

- 1. Turn off the water heater switch and incoming water supply (city water and/or demand pump).
- 2. Open a faucet in the motor home to relieve water pressure.
- 3. Pull the handle of the P-T valve straight out and allow water to flow until it stops.



Lift handle straight out to open P-T valve when water heater is cold \*

- 4. Let the handle of the P-T valve snap shut.
- 5. Close the faucet and turn on the water supply before switching the water heater on.

Manually operate the pressure temperature relief valve at least once a year.

\*If your water heater is equipped with the Motor Aid system, it uses an extension from the engine cooling system to heat water in the water heater while driving. The engine cooling system must also be cold before opening the pressuretemperature relief valve. See "Motor Aid Water Heater" for more information.

# **PROPANE GAS FURNACE**

# To Start Up:

1. Open the LP gas tank valve by turning fully counterclockwise



Thermostat Switch • Move to Heat or Gas position for furnace operation Temp Selector
Press up or down to select temperature

## SECTION 4 APPLIANCES & SYSTEMS



- 2. Move THERMOSTAT switch from Off to Heat and press the Temp Selector button (Up/ Down arrows) until the desired temperature is shown in the display.
- 3. Furnace fan should start to blow immediately after setting the thermostat.
- 4. After about 30 seconds, the furnace burner should light.
- 5. The furnace should now cycle off and on automatically as the thermostat demands just like a household furnace.
- NOTE: If heat does not come out of the heat ducts after a minute or so the burner is

not lit. Turn thermostat off for 3-5 minutes, check to be sure propane gas tank valve is open and tank is not empty, then try steps 2-4 again.

If the furnace will not light after three attempts, go to Shut Down steps and contact your dealer or a local RV service center for repair.

### To Shut Down:

- 1. Slide thermostat switch to Off position.
- 2. Close propane tank valve if coach will be stored for a period of time.

### For Further Information

Please see the furnace operating instructions provided in your InfoCase for further information, including operating precautions, and periodic maintenance. See the Coach Maintenance Schedule for recommended intervals.

NOTE: If the furnace burner has any residuals of metal protectant or lubricants used during manufacture of the furnace, it may smoke slightly when the furnace is used for the first time and may set off your smoke alarm.
We recommend that you provide adequate ventilation when using the furnace for the first time to avoid a

nuisance smoke alarm. We do not recommend removing the smoke alarm battery.

### HEAT PUMP –If Equipped

Your coach may be equipped with an air source heat pump built into the air conditioning system. Because the heat pump operates on electricity, it provides economical heat inside your coach and helps reduce the use of propane gas for heating in cooler weather.

A heat pump can be thought of as an air conditioner running in reverse. An air conditioner absorbs heat from the air on the inside of the coach and moves it to the outside. The heat pump does exactly the opposite. Even cold air contains some heat, so a heat pump will extract heat from the outside air on a cold day and carry it to the inside of the coach to maintain a comfortable temperature.

The efficiency of a heat pump decreases as the outdoor air temperature drops, so supplementary heat is often needed when the outside temperature nears freezing. This system is set to automatically start the gas furnace to assist the heat pump if room temperature cools to 5 degrees or more below the thermostat set temperature. You may wish to manually switch to furnace heat to maintain a higher temperature when outside temperatures begin to reduce the efficiency of the heat pump. The heat pump will not operate when the outside temperature falls below 36 degrees F.

### To operate the heat pump:

See the air conditioning/heat pump manufacturer's information in your InfoCase for complete operating instructions.



- Gas Heat = Gas Furnace
- Electric Heat = Heat Pump
- Cool = Roof Air Conditioner

### **Check your Air Filter**

Closed or blocked vents and a dirty air filter can hinder the efficiency of a heat pump.

- Be sure ceiling vents are open to distribute heat pump output air.
- The A/C return air filter should be checked monthly for dirt build-up and cleaned or replaced as needed. See "Air Conditioner Filter" elsewhere in this section.

# DUCTED ROOF AIR CONDITIONING SYSTEM

The furnace thermostat also controls ducted roof air conditioner operation when the thermostat switch is placed in 'cool' position.

All cooling functions controlling to setpoint have a short cycle protection time delay of 3 minutes. There will be no delay if the cycle OFF time exceeds 3 minutes.

NOTE: The ducted roof air conditioning system has ceiling registers that can be closed if necessary to force more cool air toward a specific area of the coach or to route cool air away from a specific area. If too many vents are closed, however, it can cause the air conditioner unit to shut down, particularly in high humidity conditions.

### **Further Information**

Refer to the air conditioner manufacturer's information in your InfoCase for complete operating instructions.

### ENERGY MANAGEMENT SYSTEM (EMS) –If Equipped (models with 2 roof air units only)

The Energy Management System (EMS) monitors the electrical usage of the appliances and equipment in the coach and distributes the electrical loads to avoid nuisance tripping of the shoreline circuit breaker. This system works together with the energy efficient roof air conditioners to allow you to run both roof units at the same time on a 30-amp shoreline connection.



EMS Display on Monitor Panel

Please read your Energy Management System Owners Guide for important information on running both air conditioner units at the same time. This guide will also explain how this system operates under several conditions, whether 20-amp or 30-amp connections.



# REAR AIR CONDITIONER POWER SELECTOR SWITCH

### –If Equipped

#### (models with 2 roof air units only)

If you want to run the rear AC unit, you must switch the Rear A/C Selector switch to the proper power source.



- If you are using the shoreline, the switch must be in POWERCORD position.
- If you are using the generator, the switch must be in GENERATOR position.

The rear air conditioner will not operate if the switch is not in the proper position for the power source being used.

*NOTE: The power cord must be plugged into the generator receptacle for generator operation.* 

## FURNACE-A/C THERMOSTAT OPERATION CHART

The following chart shows the system functions with the "Heat/Cool" thermostat. Disregard references to heat functions when using the "Cool Only" thermostat in the rear bedroom.

FAN MODE SWITCH		THERMOSTAT SWITCH				FAN SPEED SWITCH		WHAT HAPPENS
Auto	On	Cool	Off	Gas*	Elec*	Lo	Hi	
								If the Thermostat Switch is Off, the whole heating
								and cooling system is off- nothing is happening.
								Gas Furnace Heating:
								Furnace Blower runs along with the LP Gas
								Furnace which turns on and off as needed
								according to thermostat setting.
								Heat Pump Heating:*
								A/C Fan runs at Low Speed along with the Heat
						— <b>—</b>		Pump which turns on and off as needed according
								to thermostat setting.
								A/C Fan runs continuously at Low Speed while
								the Heat Pump turns on and off as needed
								according to thermostat setting.
								A/C Cooling:
								A/C Fan runs at Low Speed along with the Air
								Conditioner which turns on and off as needed
								according to thermostat setting.
								A/C Fan runs at High Speed along with the Air
								Conditioner which turns on and off as needed
								according to thermostat setting.
								A/C Fan runs continuously at Low Speed while
								the Air Conditioner turns on and off according to
								thermostat setting.
								A/C Fan runs continuously at High Speed while
								the Air Conditioner turns on and off according to
								thermostat setting.

Switch position - Switch position does not matter or is inactive for this feature

\*Note: These instructions include the optional heat pump, which may not be equipped on your model. If you do not have a heat pump, the Thermostat Switch Gas position is the same as the Heat position on your thermostat- in this case, ignore the Elec Heat switch settings which apply to the heat pump only.

# Chalet SECTION 5 PROPANE GAS

# PROPANE GAS SUPPLY

The propane gas system supplies fuel for the gas range/oven, water heater, furnace and refrigerator (while in gas mode). When used and handled properly, this system is safe and economical and provides modern living conveniences wherever you travel.

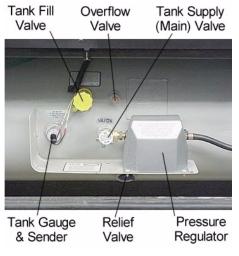
## How Propane Gas Works

Propane is a type of LP (Liquefied Petroleum) gas compressed into liquid form for easy transportation and storage. Propane gas may also be called tank gas, bottle gas, or simply LP.

Propane is used by appliances in vapor form only, but is stored in the tank as a liquid under very high pressure. As the liquid gas is released, it reverts back to a vapor and expands to many times its compressed volume.

## **Propane Tank System**

The storage reservoir for the propane gas system is a horizontally mounted tank which is permanently attached to the vehicle frame. The tank is accessible only from the outside of the vehicle.



Propane Tank Features (Typical)



**Do not** alter or remove propane tank gauge at any time.

### **Refilling Propane Tank**

Since the propane tank is permanently mounted to the frame, the motor home must be taken to a propane dealership for filling. Do not attempt to remove the propane tank from the vehicle. The tank is equipped with a fill adapter with both internal and external threads which allows easy filling with any propane filling equipment. The tank is full when liquid propane gas appears at the overflow valve.

*NOTE: The propane tank is equipped with an automatic 80% stop-fill device.* 

# \land DANGER

DO NOT FILL CONTAINER TO MORE THAN 80 PERCENT OF CAPACITY. FAILURE TO COMPLY COULD RESULT IN A FIRE OR PERSONAL INJURY. Make sure the motor home is level when filling. It is possible to accidentally overfill the tank if the vehicle is not level, with the fill valve on the uphill side. Overfilling the propane gas tank 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 propane gas.

All pilot lights must be extinguished and appliances and their ignitors turned off, and supply valve closed before refilling propane gas tanks or vehicle fuel tanks.

**Do not smoke or expose an open flame** while near a propane refueling area. Propane gas is heavier-than-air and extremely flammable.

**Never** fill the propane tank with engine or generator running.

Before opening the supply valve, check to be sure all controls for gas appliances are in the "Off" or "Pilot Off" position. If this step is not performed, propane gas could accumulate inside the motor home creating a fire or explosion hazard. **Never use an open flame** to test for

propane gas leaks.

Replace all protective covers and caps on propane system before filling.

# **Selecting propane Fuel Types**

We recommend using straight propane in your propane tank. Propane gas is commonly available at all propane gas outlets in the U.S. (According to the National propane Gas Association, propane gas outlets in the United States do not offer any other type of liquefied petroleum gas than propane to the general public.) Check local phone directory yellow pages for locations of local propane gas refilling stations or bulk dealerships.

NOTE: If you travel outside the U.S. with your motor home, you may find butane or propane/butane mixtures available in addition to propane. Because gasburning RV appliances are designed to run on propane only, we recommend that you request straight propane only.
Butane burns about 30 percent hotter than propane and can overheat some appliances, particularly refrigerators, and cause permanent damage. Other appliances designed to operate on propane can become sooted and lose efficiency by using butane fuel.

# Air in the Propane Gas Tank

If your gas appliances do not stay lit or require frequent adjustment, even though you know the propane tank contains sufficient fuel, the problem may be air in the propane gas tank. Air in the tank mixes with the propane gas vapors causing them to burn poorly. This condition could linger for weeks if the air is not purged from the tank. Most propane gas dealers have equipment for purging air from propane gas tanks and will purge before refilling the tank.

# SAFE USE OF THE PROPANE GAS SYSTEM

The propane system is designed and built with strict adherence to federal, state and recreational vehicle industry requirements for mobile propane gas equipment.

For your safety, there are many safety devices and backup systems installed, such as tank fill overflow valves, an interior propane gas detector/ alarm, and an interior carbon monoxide (CO) detector/alarm.

Propane gas also contains an odor additive that you can smell if propane is present in the air.

Here are a few precautions to observe that will help you to use the propane gas system safely:

# Chalet D-Series Class-A

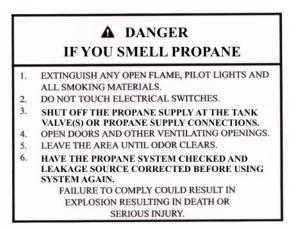
- Exercise caution at all times. Be familiar with the distinctive odor of propane gas. If a leak is suspected, turn off the supply valve immediately. Have the propane gas system checked by your dealer or other qualified propane gas service center.
- Do not tamper with the propane gas piping system, pressure regulator or gas appliances. Service and maintenance of propane gas system components should be performed only by your dealer or a qualified propane gas service center.
- Never attempt to connect natural gas to the propane gas system.
- Have the entire propane gas system inspected for possible leaks and missing or damaged parts at each tank filling. Also inspect before and after each trip, and any time trouble is suspected.
- Turn the propane supply valve off when not using the propane gas system.
- Never use a wrench to tighten the tank supply valve. It is designed to close leak-tight by hand. If a wrench is required to completely close the valve, it is defective and must be replaced.
- Be sure appliance and outside vents are open and free from obstruction when using the propane gas system.
- Never attach a lock or any device requiring a key to the propane tank compartment door. According to standards set for recreation vehicles, the propane supply valve must be readily accessible in an emergency.
- Exercise caution when drilling holes or attaching objects to the walls. Gas lines and electrical wiring could be seriously damaged and present an extreme safety hazard.

## PROPANE GAS WARNINGS AND PRECAUTIONS

It is illegal for vehicles equipped with propane tanks to travel on certain roadways or through certain tunnels in the U.S. To avoid inconvenience, check state regulations concerning flammable gas transportation.

### **Propane Gas Leaks**

The following label is located in the vehicle near the range area. If you smell gas within the vehicle, quickly and carefully perform the procedures listed.



- All pilot lights must be extinguished and appliances and their ignitors turned off while refilling the fuel tank or propane tank.
- Never smoke while refilling vehicle fuel tank or propane gas tank.
- Avoid inhaling exhaust gases produced by burned gasoline, diesel fuel or propane gas in items such as the range, chassis engine, generator engine, refrigerator, furnace and water heater. They contain carbon monoxide, which is an odorless, colorless and poisonous gas.
- Do not bring or store propane gas containers, gasoline or other flammable liquids inside the vehicle because a fire or explosion may result. Propane gas containers are equipped with safety valves which relieve excessive pressure by discharging gas to the atmosphere.

# SECTION 5 PROPANE GAS



Propane cylinders shall not be placed or stored inside the vehicle. Propane cylinders are equipped with safety devices that relieve pressure by discharging propane to the atmosphere.

FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY

- Never use an open flame to test for propane gas leaks. Replace all protective covers and caps on propane system after filling. Make sure valve is closed and door latched securely.
- Portable fuel-burning equipment, including wood and charcoal grills and stoves, shall not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle may cause fires or asphyxiation.
- Regulators are equipped with a protective cover. Make sure that the regulator vent faces downward and that the cover is kept in place to minimize vent blockage which could result in excessive gas pressure causing fire or explosion.

# PROPANE GAS PRESSURE REGULATOR

The pressure regulator is protected from the elements by a plastic cover which should be left in place at all times. Only your dealer or a qualified propane gas service should remove the regulator cover for adjustments.

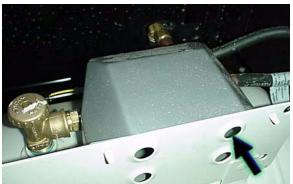
# WARNING

Visually inspect the pressure regulator vent periodically for blockage by accumulated debris or insect nests, etc. Vent obstruction could result in excessive pressure which could cause a fire or explosion.

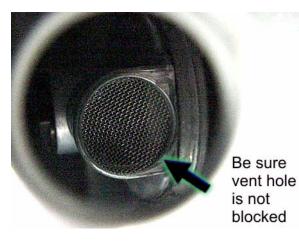
If any obstruction is apparent, have the regulator serviced by your dealer or a qualified propane gas service center.

NOTE: If your model is equipped with a propane powered electrical generator, there will be two regulators stacked one upon another. One regulates the house propane supply pressure; the other regulates pressure to the generator.





Look up inside hole on underside of regulator housing to see vent screen



### **Regulator Freeze-up**

Regulator freeze-ups are caused by the presence of moisture in fuel. This moisture will pass through the cylinder valve and into the regulator where it can freeze. Fuel producers,

# Chalet D-Series Class-A

tank and bottle manufacturers and propane gas dealers take every precaution to reduce moisture, but sometimes only a fraction of an ounce entering the tank can cause problems. To help avoid the possibility of freeze-up, always keep tank control valve closed when not in use, even when tank is empty, to prevent moisture from collecting on the inside.

If regulator freeze-up should occur, you may attempt to thaw the regulator using a light bulb. **DO NOT USE AN OPEN FLAME OR HEAT LAMP.** 

If moisture begins to cause problems, have your propane gas dealer inject a small amount of dry methyl alcohol in your tank (approximately one ounce to 20 pounds or one pint to 100 gallons) to help guard against regulator freezeups.

# PROPANE VAPORIZATION IN COLD WEATHER

Propane gas vaporization increases and decreases in direct relation to ambient temperature. In other words, the lower the temperature, the slower the liquid propane will vaporize into a usable gas for appliances.

This means that in extremely cold weather when a large volume of gas is being used by the furnace for heating, it is possible to experience a loss of gas pressure.

At first, this problem may appear to be caused by an empty tank or a regulator freeze-up, but is actually caused by failure of the liquid gas to vaporize as fast as it is needed by the furnace.

The demand for propane to produce heat increases to the point where the gas cannot vaporize fast enough to keep the furnace going. The only solution to this problem is to reduce gas usage where possible.

Adjusting the temperature on the gas/electric refrigerator may be a first step. Using less hot water will also help, as well as refraining from using the gas cooktop. A final step is to lower the thermostat setting to reduce gas usage by the furnace.

**SECTION 6 ELECTRICAL** 

Chalet

Your coach is equipped with an electrical system consisting of two separate voltages:

- 12-volt DC system (battery current) and
- 120-volt AC system (household current)

The 12-volt system consists of two internal power sources, while the 120-volt system is operated from an outside power source or the optional 120-volt generator.

# **ELECTRICAL CAUTIONS**

- Careless handling of electrical components can be fatal. Never touch or use electrical components or appliances while feet are bare, while hands are wet, or while standing in water or on wet ground.
- Improper grounding of the vehicle can cause personal injury. Do not plug the utility power cord into an outlet which is not grounded and do not adapt the plug to connect to a receptacle for which it is not designed.
- Do not attach an extension cord to the utility power cord.
- Be sure that all electrical appliances to be used contain 3-prong plugs for proper grounding.
- Avoid overloading electrical circuits. Replace fuses or circuit breakers with those of the same size and amperage rating only. Never use a higher rated fuse or breaker.
- Use caution when handling or working near electrical storage batteries. Always remove jewelry and wear protective clothing and eye covering. Avoid creating sparks.

# **120-VOLT AC SYSTEM**

The 120-volt system operates from the shoreline cord connected to an outside 120-volt utility service such as those at campgrounds, or from the 120-volt generator. When the shoreline cord is connected to an outside power source, or when the auxiliary electric generator is running, the power converter automatically changes a portion of the 120-volt current to 12-volt DC current. All equipment in the motor home that is normally powered by the house batteries is then powered through the converter.

In addition, the following equipment is entirely dependent on 120-volt current: air conditioner, refrigerator (when placed in AC mode), microwave oven, and any 120-volt electrical equipment used at convenience outlets.

# EXTERNAL POWER CORD (Shoreline)

The external power cord (commonly referred to as a "shoreline") is stored in the utility compartment on the left (driver's) side of the coach.

# \land WARNING

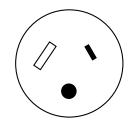
Do not connect the external power cord to any receptacle until you have contacted the owner and/or attendant of the premises to verify proper polarity and grounding.

It is the responsibility of the owner of the electrical receptacle to ensure that the receptacle is properly wired and grounded.

Reverse polarity and improper grounding of the vehicle can cause personal injury or death.

The three-prong power cord is designed to ground the electrical system through the receptacle. It is also designed to carry the amperage output of most campground outlets. If the electrical receptacle to be used is designed to mate with the three prongs on the power cord plug, the electrical connection can be expected to carry rated load.

# SECTION 6 ELECTRICAL



#### 30 Amp Receptacle

# **WARNING**

Do not plug the power cord into an outlet which is not grounded, or adapt the plug to connect to a receptacle for which it is not designed.

Be sure that all three prongs of the supply cord are properly plugged into the receptacle.

Do not connect the power cord to an extension cord.

## **Connecting the Power Cord**

To connect to an external power source, remove the power cord from the utility compartment and plug it into a suitable power receptacle.

A passage through the compartment door or the bottom of the compartment lets you route the power cord out of the compartment so you can close the compartment door while the power cord is connected.

After disconnecting the power cord, neatly stow it in the utility compartment.

NOTE: Always keep service access passage closed while utility connection is not in use.

### **Park Fuses or Breakers**

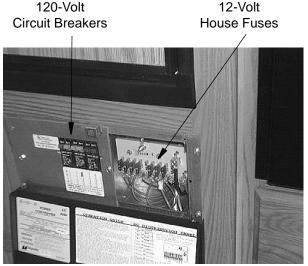
Most campgrounds are equipped with a fuse or circuit breaker at the receptacle. This protects the park's wiring, as well as the power cord on your vehicle, from electrical damage. If electrical power fails, contact the park attendants and have them check the fuse or breaker for your supply receptacle.

# POWER CENTER Converter

The power converter is generally located in a lower cabinet face in the galley or living area depending on the floorplan of your model.

The converter power panel contains the house electrical system 120-volt circuit breakers and 12-volt breakers or fuses.

The power converter changes 120-volt AC current from the auxiliary generator or the shoreline into 12-volt DC current for use by 12-volt equipment in the motor home.



Power Center 26', 29' and 30' models



120-Volt House Circuit Breakers 12-Volt House Circuit Breakers

Power Center 33', 34' and 35' models

Certain circuits, however, remain unchanged for use by items which require 120-volt current, such as the air conditioner(s), the refrigerator in AC mode, the microwave oven, etc.

### NOTE: The converter will not change 12-volt DC current to 120-volt AC.

Current drawn from the house batteries passes through the power converter unchanged, although it is routed through a series of protective fuses located on the power panel.

# **A**CAUTION

Do not block the converter cover vents in any way. The converter generates heat while operating, and needs unrestricted air flow for proper cooling.

# **Further Information**

See the manufacturer's operation, care and maintenance information in your InfoCase.

### **Charging Section**

The converter charges house batteries while 120-volt external power is connected. The converter will automatically "sense" the condition of the battery. If it is below "full charge", the Charging Section will start charging the batteries.

If the house batteries have been extremely discharged, they will accept charge at a relatively high amperage rate. If they are only slightly discharged, they will charge at a lower amperage rate. The rate of charge will decrease as the batteries reach "full charge", then will continue "trickle" charging at a very low amperage rate. If your battery does not charge as described above, it is possible the battery is defective.

### **Thermal Overload**

A thermal overload will "break" the 120-volt AC power to the converter section of the Power Center if the power converter becomes overheated. This can result from operating above its maximum limit for an extended period of time or by obstruction of ventilation to unit.

NOTE: The power converter section will automatically route 12-volt lights and motors to house battery power in this event.

The thermal overload will reset itself after a period of time, and the lights and motors will again resume operation from the power converter section. If the breaker trips again shortly after reset, take immediate steps to correct the cause of overheating. A portion of the house 12-volt load (lights or motors or both) should be turned off to reduce total load. Also, inspect the power converter to make sure ventilation is not obstructed.

# **120-VOLT CIRCUIT BREAKERS**

The breaker panel protects all 120-volt components in the motor home from either an overload on the circuit or a short in the wiring or component itself. When an overload or short develops, the breaker will open preventing damage to the system.

# SECTION 6 ELECTRICAL



Shut off the equipment (example: roof air conditioner) and allow a brief cooling period. Then reset the breaker by moving the switch to "Off" and back to "On". If the breaker is continually tripped and no overload is evident, have the system checked for a short in the wiring or the appliances.

The breaker panels are located behind a door or pull-off panel on a lower cabinet face in either the galley or lounge area or beneath the rear bed.

*Typical view of breaker panel. Breakers are labeled on panel. Arrangement may vary according to appliance and equipment options.* 



120-Volt House Circuit Breakers

### 120-VOLT RECEPTACLES (OUTLETS)

A number of standard household electrical outlets are provided throughout the coach for connecting small appliances such as televisions, radios, toasters, etc.

An exterior outlet is also located on the outside of the coach near the entrance door or in a storage compartment on the passenger side of the coach.

# GROUND FAULT CIRCUIT

Bath, galley and exterior outlets are connected to a GFCI (Ground Fault Circuit Interrupter), which is an extremely sensitive circuit breaker that will help to protect against severe electrical shock if a ground fault develops. If such a condition occurs, the GFCI will break the circuit by turning off the power to the protected outlets. Should this occur, unplug all the appliances on that circuit and press the reset button on the GFCI equipped outlet.

If the GFCI keeps tripping, have the electrical system checked and repaired, if necessary, before using again.



Push to Reset circuit after monthly testing or ground fault tripping.

Push to Test at least monthly. Should break circuit. Press Reset button to reconnect.

GFCI Outlet (Ground Fault Protector)

# **MARNING**

The GFCI will not completely eliminate the risk of electrical shock. Small children and persons with heart conditions or other disabilities which make them especially sensitive to electrical shock may still be injured by a 120-volt receptacles even though protected by a Ground Fault Circuit Interrupter.

# ELECTRICAL GENERATOR –If Equipped

# WARNING

Careless handling of the generator and electrical components can be fatal. Never touch electrical leads or appliances when your hands are wet, or when standing in water or on wet ground. Do not attempt to repair the generator yourself. Service should be performed by an authorized service center. Do not plug the power cord into the generator receptacle while the generator is running.

To use the 120-volt generator, plug the power cord into the generator receptacle within the utility compartment before starting the generator.





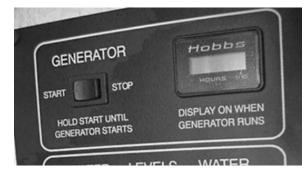
Power Cord

# **Generator Operation**

See the manufacturer's operation, care and maintenance in your InfoCase.

# **Generator Hourmeter**

This meter is located on the monitor panel. It registers the total number of hours that the generator has been operated.



Refer to the hourmeter to determine when periodic maintenance is due and to record services which have been performed.

# **Operation Warnings and Cautions**

# **WARNING**

The exhaust of all internal combustion engines contains carbon monoxide (CO). This poisonous gas is colorless, odorless, tasteless, and lighter than air. The exhaust systems of both your motor home engine and your generator engine have been installed with your safety in mind. However, certain precautions must be taken when using them to protect yourself from conditions beyond the control of the manufacturer.

- 1. Do not simultaneously operate the generator engine and a ventilator which could draw exhaust gases into the vehicle.
- 2. Do not open windows or ventilators on the end or side of the vehicle where exhaust pipe of the generator is located.
- 3. Park the vehicle so that the wind will carry the exhaust away from the vehicle. Also, note the position of other vehicles to be sure their exhaust will not enter your vehicle.
- 4. Do not operate the generator engine while parked if vegetation, snow, buildings, vehicles, or any other object can deflect the exhaust under or into the vehicle.

Check auxiliary generator oil level frequently during periods of use.

Refer to the generator manufacturer's maintenance information in your InfoCase for specific recommendations.

# **MARNING**

Never check generator oil level while generator engine is running.

# **12-VOLT DC SYSTEM**

The DC voltage system consists of the chassis battery, the 12-volt house batteries, and the 12volt power converter.

### Converter

See "Power Center."

# **Chassis Battery**

The chassis battery is used to operate the engine starter and automotive accessories and controls found on the instrument panel. The slideout room systems and the electric step are also connected to the chassis battery.

See your chassis manual for further information on chassis batteries and chassis electrical system.

### **House Batteries**

The house batteries supply power to 12-volt equipment located in the living area of the motor home. This includes interior lights, range exhaust fan, furnace fan, water pump, water level and holding tank gauges, 120-volt generator starting, refrigerator and bath roof vent fan.

The house batteries may also be used to start the engine if the chassis battery is discharged. (See "Battery Boost Switch" or "Aux Start Switch.")

House batteries are "deep-cycle" type batteries specially designed for recreational vehicle use. They will provide longer lasting power than standard automotive batteries, and will withstand the frequent drain-and-recharge cycles that occur under the demanding conditions of a camping outing.

The house batteries are automatically charged by the chassis alternator while the engine is running.

# AUXILIARY BATTERY DISCONNECT SWITCH (AUX. BATT)

The AUX BATT disconnect switch lets you disconnect the house batteries from the 12-volt system of your coach during storage periods to avoid battery drain by electrical items that are hooked directly to the house batteries, such as clock displays and radio memories, etc.

Always leave this switch ON while using the coach.

NOTE: Some electronic displays and memory functions may need to be reset after power has been reconnected.

See also "Battery Care" elsewhere in this section.



Aux. Batt. Switch - typical (Near entrance door)

# HOUSE BATTERY ACCESS

The house batteries are located in a compartment beneath the interior entrance steps.

Unfasten the step retainer, then lift the step upward and remove to service batteries.



\*Some models may have only one house battery \*\*Class-C models located in engine compartment

# **WARNING**

Always refasten the battery retainer when returning a battery to the compartment.

# **BATTERY CARE**

Lead -acid type batteries are electro-chemical devices for storing and releasing electrical charge. As such, they are simply an electrical reservoir, not an electrical source. As soon as energy is removed from the battery, it should be replaced by the engine alternator or the RV converter system.

If a battery sits unused for 30 days or more, especially during warm weather, it can develop a deposit of sulfate crystals on the metal plates inside the battery. This condition is called 'sulfating' and prevents the battery from either releasing or accepting a charge. If this condition occurs, the battery must be replaced.

If a battery does not contain at least 80% charge during freezing temperatures, the electrolyte can freeze and crack the battery case.

# The two best defenses against sulfating and insufficient charge are to:

- 1. Turn off the Auxiliary Battery Disconnect (Aux Batt) switch to avoid parasitic discharge (the trickle discharge caused by directly connected components like propane gas detectors or digital clock displays, etc.)
- 2. Check the battery and recharge as necessary at least once a month during long storage periods. Turn the Aux Batt Switch off to avoid electrical arcing when attaching or detaching charger clamps.

# **WARNING**

**California Proposition 65 Warning:** Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and reproductive harm. Wash hands after handling.

NOTE: We do not recommend leaving the shoreline plugged in continuously during storage periods because the batteries can lose electrolytic fluids and become damaged from continuous charging without periodic use or maintenance. We recommend following regular battery inspection and maintenance, especially in cold weather.

### Further precautions are:

- Remove the battery from the coach.
- Store it in a cool place on a wooden or rubber pad to inhibit conductive transfer.
- Check the state of charge periodically to avoid discharge or sulfating.

# SECTION 6 ELECTRICAL

To ensure that the battery will always accept and hold a charge, follow these simple maintenance practices.

- Make sure the batteries always remain securely clamped in the battery tray.
- Make sure battery cable clamps are tight on the terminal posts and are free of corrosion.
- Neutralize corrosion buildup or acid film on top of battery by washing with a baking soda/ water solution. Rinse with clear water.
- NOTE: Make sure vent caps are on securely to prevent baking soda solution from entering the battery and contaminating the electrolyte fluid.

# **WARNING**

Before removing any battery cables or battery, make sure all 12-volt equipment in the motor home is off and the power cord has been disconnected. Be sure to replace the battery terminal boot back onto the positive terminal after servicing. Care must be taken to avoid pinching the cable between any metal parts. Should the cable be damaged, a short circuit could result in personal injury or damage to equipment. Replace any damaged cables at once. Always remove jewelry and wear protective clothing and eye covering when checking or handling batteries.

- Clean and tighten battery terminals and have the specific gravity checked at least once a year.
- Check the battery fluid level every month, or more often in hot weather. Fill to approximately 3/8 inch above the plates. DO NOT OVERFILL. If fluid is added during freezing weather, the motor home should be driven several miles to mix water and electrolyte to prevent freezing.
- Fluid level check may be omitted if equipped with maintenance-free batteries.

# **WARNING**

To prevent wiring damage, it is essential when replacing the cables on the battery, or when using a "booster" battery, that the positive post and the positive cable be attached and the negative post and negative cable be attached. The posts are marked (+) plus and (-) minus. If a "boost charger" is used while battery is in the motor home, disconnect both battery cables before connecting the charger to avoid damage to engine electronic components. Never attempt to charge or boost a frozen battery.

# 12-VOLT HOUSE FUSES AND CIRCUIT BREAKERS

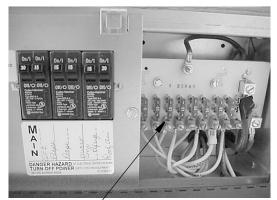
All 12-volt circuits and equipment in the coach area of the motor home are protected by either a fuse panel or breaker panel. When a circuit is overloaded or a short develops in any part of the system, a fuse or breaker will shut down that circuit. If this happens, turn off all affected lights or appliances and reset the breaker or replace the fuse with a new one of equal amperage rating.



# Chalet D-Series Class-A

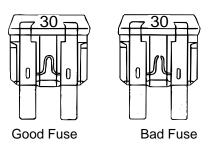
A label on the panel states the amperage rating and circuit protected for each fuse or breaker.

The fuse panel is on the right-hand side of the power converter.



House 12V Fuses (on converter panel) 26' to 30' models

The fuse panel accepts only blade type plug-in fuses. Always replace fuses with those of the same amperage rating.



# **Battery Charge Meter**

See related item under "Systems Monitor Panel" in Appliances section.

# **Battery Boost Switch**

See Driving Your Motor Home section for information on the Battery Boost Switch.

# Chalet SECTION 7 PLUMBING

# FRESH WATER SYSTEM

The fresh water system provides water to the galley sink, shower, bathroom lavatory, toilet and water heater. Water may be supplied by either of two sources:

- a fresh water tank and water pump located within the motor home, or
- any external fresh water source to which the motor home may be connected, known as "city water."

# Filling the Fresh Water Tank

Always fill the fresh water tank at an approved potable water filling facility or a known purified drinking water source.

The tank is filled through the city water connection (Fresh Water Inlet) inside the water service center.

The Fresh Water Valve routes the water from the city water hose to the fresh water tank for filling.

1. Attach hose to the Fresh Water inlet.



Fresh (City) Water Connection

2. Turn the Fresh Water Valve to Tank Fill position



Fresh Water Valve in Tank Fill position (located in water service center)

- 3. Turn city water supply on.
- 4. Tank is full when water flows from tank vent tube beneath coach.
- 5. Turn off city water supply and disconnect from city water connector.
- 6. Turn Fresh Water Valve to Normal position to use the water pump. *The Tank Fill position is* only for pressure filling the water tank from the city water hose connection.



Fresh Water Valve in Normal use position (located in water service center)

# **Using City Water**

When connected to an outside source of water, the water bypasses the demand pump and storage tank and supplies pressure directly to individual faucets and toilet. A check valve built into the pump prevents water from entering the pump and filling the storage tank.

1. Connect hose to city water connection as described in previous steps.

# SECTION 7 PLUMBING

2. Turn Fresh Water Valve to Normal position and turn the water pump switches OFF.



Fresh Water Valve in Normal use position (located in water service center)

NOTE: Always keep the tank fill valve in Normal position unless you are filling the tank. If this valve is left in the Tank Fill position while using the city water, water will keep flowing into the tank and out the tank vent tube onto the ground and the water pump will run without delivering water to faucets.

### **Disconnecting from City Water:**

- 1. Turn the city water source off.
- 2. Open a faucet on the coach (such as the exterior wash station if equipped) to relieve line pressure.
- 3. Disconnect the city water hose from the coach and replace the cap on the fresh water inlet.
- NOTE:Be sure the Fresh Water Valve is in Normal position to use the water pump. If the valve is in Tank Fill position, the pump will run continuously without delivering water.

### **Pressure Regulators**

Because city water pressure varies from location to location, we recommend obtaining an in-line water pressure regulator to prevent damage to any components, connections and seals in your fresh water system. We recommend a regulator that controls water pressure to **40 psi. max**. These devices simply connect in-line between the supply hose and the city water input on the coach.

Water pressure regulators are commonly available at any well stocked RV dealership and many large retail discount or home supply centers.

# WATER PUMP

When your coach is not connected to a city water supply, water is supplied from the fresh water tank by a water system demand pump. A demand pump is designed to run only when you are using water. When you open a faucet, the water line pressure drops and the pump begins to run, and it will continue to run as long as the faucet is open. When you close the faucet, the line pressure backs up to the pump, and it shuts itself off.

The pump is self-priming and will run briefly to build up line pressure when the Water Pump Switch is first turned on. See "Initial Water Line Priming" for instructions on using the water system for the first time.

## **Further Information**

See the water pump manufacturer's operation, care and maintenance information in your InfoCase.

## **Pump Strainer**

The pump is equipped with a cleanable strainer to capture any possible tank borne particles that could damage pump components.

NOTE: We recommend that you check and clean the strainer after each tankful of water during the first few uses of the water pump system. Thereafter, remember to check it at least yearly, and be sure to empty water from it during winterization procedures.

#### Unscrew bowl and remove to clean strainer



Water Pump Strainer in Water Service Center (typical)

### **To Clean Pump Strainer**

- Be sure all water pump switches are OFF.
- Twist the inlet cap (bowl) counterclockwise to unscrew from the strainer assembly.
- Remove the bowl and pull the strainer screen out of the bowl to tap out any particles and rinse clean.
- Insert the strainer screen back into the bowl, then screw the bowl back onto the strainer assembly.
- *NOTE:* You must also empty the strainer when winterizing your coach to avoid water freezing and cracking the filter bowl.

### Water Pump Switch

The water pump switch is located on the systems monitor panel. (Some models may have an additional switch in the water service center.)

While the switch is "ON", the pump will automatically supply water as it is needed.

We recommend that you turn the water pump switch off whenever you will be away from the vehicle or not using the water system. In time, a slow leak in a faucet could drain the water tank, fill the holding tank and discharge the house batteries.

#### **Initial Water Line Priming**

- 1. Make sure that all water drain valves are closed, including water heater valve.
- 2. Turn water pump switch to "OFF" position.
- 3. Fill water tank.
- 4. Open all faucets, hot and cold.
- 5. Turn on pump switch.
- Close each faucet as it begins to deliver a steady stream of water (close cold water first). Leave hot water faucets on until they also deliver a steady stream of water. This will ensure that the water heater is filled with water.
- 7. Check to be sure pump stops soon after all faucets have been closed.
- 8. Pump is now ready for automatic operation. Pump will start when a faucet is opened and stop when the faucet is closed.

### DISINFECTING YOUR FRESH WATER SYSTEM

To assure complete disinfection of the potable water system, it is recommended that the following procedure be followed on a new system, one that has not been used for a period of time, or one that could have become contaminated.

This procedure is also recommended before long periods of storage such as over winter.

### Models with City Water Tank Fill

The fresh water tank must be filled through the city water connection in the water center.



# SECTION 7 PLUMBING

These models require temporarily connecting an external cartridge type water filter assembly in-line between the city water hose and the city water fill to add disinfecting solution to the tank. These filters are commonly available at RV supply stores.

1. Remove the filter cartridge and pour 1/2 cup of household bleach (sodium hypochlorite solution) for each 30 gallons of tank capacity into the empty filter canister and screw the canister back onto the filter base.

This solution will result in a residual chlorine concentration of approximately 50 ppm in the water system. (If a 100 ppm concentration is required as discussed in step 3, use 1 cup of household bleach for each 30 gallons of tank capacity.)

The bleach will be drawn into the tank when the city water is turned on and the Fresh Water Valve is turned to Tank Fill position.



NOTE: Alternate Method – If you do not have an in-line cartridge filter, bleach can be added using your water hose. This method has the additional benefit of disinfecting the city water hose at the same time.

-Connect the water hose to the city fill connection on your coach. Do not connect to city water faucet yet. -Use a funnel to pour the required amount of bleach into the open end of the hose. Hold the hose up to allow enough room for the bleach to flow into the hose. -Connect the hose to the city water faucet and turn on so the water will force the bleach into the tank and continue filling the tank with water.

- 2. Fill the tank completely, then open each faucet in the coach and run the water until a distinct odor of chlorine can be detected in the water discharged. Do not forget the hot water faucets.
- 3. Let the system stand at least 4 hours when disinfecting with 50 ppm residual chlorine. (If a shorter time period is desired, then a 100 ppm chlorine concentration should be allowed to stand in the system for at least 1 hour.)
- 4. Drain the fresh water tank.
- 5. Install the filter cartridge into the filter canister, then refill the tank with fresh water.
- 6. Open each faucet again and run fresh water to flush chlorinated water from the lines. Run the water until there is no odor of chlorine detected in the water discharged. Do not forget the hot water faucets. (It may take some time to flush the water heater with clean water.)
- 7. Water system disinfection procedure is done.



Chlorine is poisonous. Recap bottle and clean all utensils after use.

# Continuous Tank Disinfection (Superchlorination)

Some RVers like to ensure continuous sanitation of their fresh water tank by 'superchlorination'– maintaining an effective low level of chlorine in the tank at all times. The chlorine is then removed from drinking water by the Filtered Water Faucet.

Add 1 teaspoon of chlorine bleach (sodium hypochlorite) to your tank for each 10 gallons of tank capacity. When you fill the tank, this will result in a 6.7 ppm level of chlorine, which should kill harmful bacteria and slime-forming organisms.

Super chlorination does not affect city water usage– only the water tank.

# SHOWER HOSE VACUUM BREAKER

After using the shower, you may notice water dripping from the shower faucet assembly. The dripping results when vacuum in the shower hose (after closing the shower faucet) slowly releases and allows water remaining in the hose to drain down. This is a normal function of the shower valve assembly and is not a leak or defect.

# **A**CAUTION

If items are placed into the shower tub before shower valve vacuum release is complete, they may become wet.

### EXTERIOR SHOWER / WASH STATION –If Equipped

The exterior wash station feature allows you to do things such as rinse off sand or salt after a swim, rinse off muddy boots, or bathe your pet outside the coach. Some models may have a water pump switch located near the shower faucet for convenience.



Exterior Shower/Wash Station (typical)

# TOILET

The toilet in your motor home is very similar to the household type, except that it is designed to use only a small amount of water per flush. It uses a high velocity jet of water, producing a swirl effect, to efficiently cleanse the bowl.



## Important "Don'ts"

- Don't use facial tissue or regular toilet tissue in the RV toilet. These will not disintegrate sufficiently and will often cling to the sides of the holding tank. Toilet tissue made specifically for use in RV toilets and holding tanks is available at most RV supply centers.
- Don't dispose of sanitary napkins or other non-dissolving items in the toilet.
- Don't put automotive antifreeze or caustic chemicals, such as laundry bleach or heavy detergents into the toilet or holding tank. These products may damage plastic or rubber parts in the system.

See winterizing instructions at the end of this section to prepare the toilet for storage in freezing conditions.

# **Further Information**

See the toilet manufacturer's operation information in your InfoCase for complete operating, care and maintenance information.

# WASTE WATER SYSTEM (Holding Tanks)

The drainage system is self-contained and uses two separate holding tanks to contain the waste water until it can be dumped at an appropriate waste water disposal site. This means you can use the toilet, sinks and shower even in areas where utility hookups are not available.

# SECTION 7 PLUMBING

The black water holding tank contains the sewage from the toilet and may include bathroom lavatory on some models. The gray water holding tank contains the waste water from the galley sink and shower, and may include bathroom lavatory.

See "Specifications" in Introduction section for Tank Capacities for your model.

# **Dumping Holding Tanks**

- 1. Remove drain hose from water service center.
- 2. Remove dust cap from drain and connect sewer hose. Be sure it is firmly attached.
- NOTE: The dump valve drain outlet swivels downward when necessary to avoid bends in the drain hose which could trap solids while dumping or to provide more direct drainage while using on-site sewer hook-ups.
- 3. Place the outlet end of sewer hose into disposal opening.



Holding Tank Dump Valves (Typical)

Note: Black and Gray tank valve positions may be reversed depending on floorplan and tank location.

The center outlet section may be swiveled downward for better hose alignment and drainage.

4. Open the black water valve (black handle) with a quick pull and make sure there are no sags in the hose. Move the hose gently about to dislodge any waste and ensure complete drainage. Close black water valve as soon as tank is empty.

- NOTE:DO NOT OPEN BOTH VALVES AT ONCE. Do not open the gray tank valve until the black tank is drained and dump valve closed to avoid sewage back-up into gray tank. Gray water also rinses any black water solids from the drain hose.
- 5. Open the gray water valve (gray handle). Be sure there are no sags in the hose to ensure complete drainage. Close gray water valve as soon as tank is empty.
- 6. Add an odor control chemical to the sewage holding tank through the toilet. These chemicals are available at most R.V. stores.
- 7. Rinse sewer hose thoroughly with water and stow.
- NOTE: We recommend that you dump all holding tanks before traveling to avoid carrying unnecessary weight.

# **Using On-Site Sewer Hook-Ups**

The drain hose may remain attached to the dump outlet and be routed out the bottom of the compartment while the motor home is parked and connected to an on-site sewage hook-up.

The center outlet section may be swiveled downward for better hose alignment and drainage.

#### NOTE: Always keep service access passage closed while utility connection is not in use.

When using a sewer hook-up, keep the dump valves closed until a tank becomes full or when preparing to leave the site. This keeps the solids in suspension, allowing them to be carried out with the liquids when the dump valve is opened. If the valve is left open, the liquids will drain off, leaving solids in the tank. Should this accidentally happen, disconnect the hose, fill the tank about half full with water, and drive a few miles to dislodge the solids. A few starts and stops will aid in the process. Then reconnect the hose and drain in the normal manner.

# Chalet D-Series Class-A

# SECTION 7 PLUMBING

### **Holding Tank Level Indicators**

See "Systems Monitor Panel" in Appliances section for further information on the monitor panel and checking tank levels.

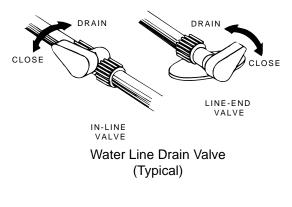
See "Specifications" in Introduction section for Tank Capacities for your model.

# WATER LINE AND TANK DRAIN VALVES

The water drain valves are used to drain water from the water tank and the water supply lines when preparing the motor home for storage or when sanitizing the water system.

To open or close the drain valves, turn the handles in the directions indicated by the following illustration.

Drain valve locations are listed in the "Water System Drain Valve Locations" chart at the end of this section.

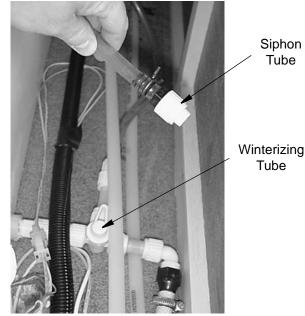




Water Tank Drain Valve (Typical)



Water Heater Bypass Valve (Typical)

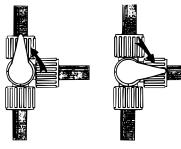


Winterization Valve beneath rear bed Models 30B & 33L shown

## WATER HEATER BYPASS VALVE

Your coach may be equipped with a water heater bypass valve for easier winterization of water lines using RV antifreeze. See chart at the end of this section for valve location.

Turn the handle as shown to either bypass or flow through the water heater.



Normal Flow

By-Pass Mode



Leave bypass valve handle in NORMAL FLOW position if draining water and blowing out water lines. Place in BYPASS position ONLY when using antifreeze solution in water lines.

# WINTERIZING PROCEDURE

## **Blow Out Procedure**

- 1. Level the motor home and drain the entire plumbing system as described in the following steps.
- 2. Open water line drain valves and drain fresh water tank. (See Water System Drain Valve Locations chart at the end of this section for locations of drain valves on your model.)
- 3. Open the Exterior Wash Station shower knobs (if equipped) and lay shower head on ground to drain any water left in the shower line. Also place the tip of your finger into the city water

inlet and gently press the backflow valve "button" in the center of the inlet to drain any water trapped in the inlet line.

- 4. Turn on water pump and open all sink faucets and shower head knobs. Leave open after water stops flowing.
- 5. Press the toilet flush pedal and hold until water stops flowing in the toilet. Then turn water pump switch off.
- 6. At this time, if your coach is equipped with an optional refrigerator ice maker, dishwasher or washer/dryer, the water lines for these appliances must also be drained. Instructions are included at the end of this section. If not, proceed to the next step.
- 7. Turn off the water heater power switch before draining the water heater tank to avoid damage to the heating element. Drain the water heater by removing the plug from the base of the water heater tank, accessible from the outside of the coach. (Requires socket and ratchet.)



Water Heater Drain Plug Remove with socket.

Also open the Pressure-Temperature relief valve at the top right portion of the tank to prevent air locking in the tank while draining.

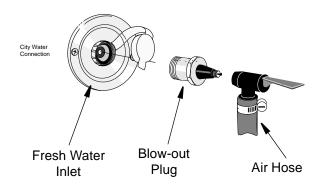


Lift handle only when water heater is cold

# Chalet D-Series Class-A

# SECTION 7 PLUMBING

8. After water has stopped draining at all faucets and drain valves, leave faucets open and connect a "blow-out" plug to the city water connection on the coach. Then use a compressed air hose regulated to 30 psi or less to force air through the system. (A "blow-out" plug can be purchased at any Winnebago or Itasca dealer. P/N 701705-01-000.)



# **A**CAUTION

Limit air pressure to 30 psi to avoid damage to pump or water lines.

- NOTE: DO NOT burst air into the system. This can damage the water pump. It is better to let air in slowly.
- 9. Let air flow for five minutes until water is completely drained out of faucets and drain valves. Then close faucets one at a time.
- 10. Operate and hold toilet flush lever until water is completely drained from toilet.
- 11. Turn air pressure off and disconnect water purge adapters. Recap the city water connection to avoid contamination by dirt or insects.
- 12. Follow procedure listed in "Final Steps..."

### Water System Antifreeze Procedure

NOTE: As an alternative to totally draining the plumbing system, you may winterize tanks and lines by pumping non-toxic RV antifreeze through the system. This product is available from your dealer and

#### from most RV supply stores. Follow directions on the container to determine the correct amount to use for your coach.

Your coach is equipped with a manually operated water line winterization system for your convenience in winterizing fresh water lines.

The system features a diverter valve with suction tube to draw non-toxic RV water system antifreeze into the water lines. There is also a water heater bypass valve to avoid filling the water heater with antifreeze. This feature is located near the water pump in the water center or utility compartment.

# **A**CAUTION

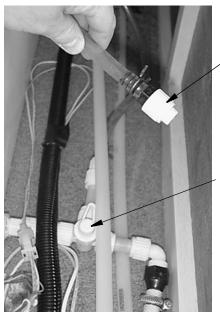
Leave Bypass valve handle in 'Normal Operation' position if draining water and blowing out water lines. Place in 'Bypass' position ONLY when using antifreeze solution in water lines.

# WARNING

NEVER use automotive antifreeze/ coolant in your RV water system. Auto antifreeze contains ethylene glycol which, if ingested, can cause blindness and can be fatal.

- Turn water heater bypass valve to BYPASS position.
- Remove and save the protective cap from the end of the antifreeze draw tube.
- Insert the end of the draw tube into a pail or other container with 2 to 3 gallons of non-toxic RV antifreeze solution.

## SECTION 7 PLUMBING



Siphon Tube (insert into container of RV water system antifreeze)

Winterizing Valve (point toward siphon tube for winterizing)

Winterization Valve (See Drain Valve Location chart at end of this section)

- Turn the diverter valve handle so that it points toward the suction tube.
- Turn the water pump switch on.
- Open each hot and cold water faucet handle in the coach one at a time until antifreeze solution just begins to flow from the faucet, then close.

### When Done Adding RV Antifreeze:

- Turn water pump switch off.
- Turn the diverter valve handle so it points toward the water line to the pump as shown in the photo. This will stop the flow from the suction tube and revert the tank line flow to the pump.
- Replace the protective cap onto the end of the suction tube to keep out insects and debris when not in use.

# **Dump and Clean Holding Tanks**

- Completely drain the sewage and waste water holding tanks at an approved waste disposal site. Drain the sewage tank first so the following waste water can rinse any waste solids from the dump outlet and sewer hose.
- Flush the sewage tank using the Black Waste Tank Flush Inlet.

• Close dump valves and refit the dust cap onto the drain outlet.

### Final Steps for "Blow-Out" or "Water System Antifreeze" Procedure

- 1. Close all drain valves and faucets to avoid contamination by dirt or insects. Reinstall water heater drain plug and close P-T relief valve.
- 2. Pour about one cup of non-toxic RV antifreeze into the kitchen sink drain, bathroom sink drain and shower drain. This prevents any holding tank odors from entering the coach during storage.
- NOTE: It is not necessary to add antifreeze to the toilet since the flush valve will be closed.

Do not add automotive antifreeze or caustic chemicals such as bleach or laundry detergents into the toilet bowl or holding tanks. Although these products may have a deodorizing effect, they may damage plastic and rubber parts in the system.

3. Place a bucket beneath the sewage drain valve outlet and re-drain the sewage and waste holding tanks of any clean water that may have entered during the "blow-out" procedure.

Close dump valves to prevent valve shafts from rusting and to prevent entry by rodents and insects. Refit the dust cap onto the drain outlet.

4. Empty the water pump strainer filter bowl to avoid water freezing and cracking the filter bowl. Strainer is shown previously in this section.

Your drainage and fresh water systems are now totally winterized.

WATER SYSTEM DRAIN VALVE LOCATIONS							
Model	System	Drain Valve Locations					
30B, 33T & 35J	Water Lines	Open exterior shower faucet and lay shower head on ground. Also place the tip of your finger inside the city water connection and gently press the backflow valve (small "button" in center of connector) to drain any water left in the city water line.					
	Water Tank	Large yellow-handled valve near the water tank under the bed. Raise the bedboard and mattress at the foot of the bed to access.					
	Water Heater	Drain plug on outside of coach, behind service door. Use socket to remove drain plug.					
	Water Heater Bypass Valve	Valve near the water tank under the bed. Raise the bedboard and mattress at the foot of the bed to access.					
	Winterization (Antifreeze) Valve	The valve and suction tube are located near the water tank under the bed. Raise the bedboard and mattress at the foot of the bed to access.					
34A	Water Lines	Near water pump in passenger side cargo compartment just ahead of rear wheels.					
	Water Tank	Large yellow-handled valve near water pump in passenger side cargo compartment just ahead of rear wheels.					
	Water Heater	Drain plug on outside of coach, behind service door. Us socket to remove drain plug.					
	Water Heater Bypass Valve	On floor beneath lavatory cabinet. Remove pull-off panel on right hand side of cabinet.					
	Winterization (Antifreeze) Valve	Near water pump in passenger side cargo compartment just ahead of rear wheels.					

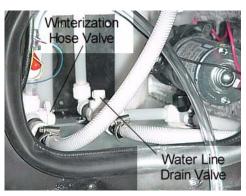
WATER SYSTEM DRAIN VALVE LOCATIONS						
Model	System	Drain Valve Locations				
26P & 29R	Water Lines	Inside utility compartment in passenger side rear cargo compartment. See photo below.				
	Water Tank	Large yellow-handled valve in utility compartment. See photo below.				
	Water Heater	Drain plug on outside of coach, behind service door. Use socket to remove drain plug.				
	Water Heater Bypass Valve (see photo below)	26P: On floor beneath galley cabinet. Open cabinet door under galley sink to access.				
	(see photo below)	29R: On floor beneath galley cabinet. Remove drawer on right-hand side to access.				
		35N: On floor beneath refrigerator. Remove lower front panel to access.				
	Winterization (Antifreeze) Valve	Inside pump compartment in passenger side rear cargo compartment. See photo below.				



typical installation



typical installation



Model 29R shown



Model 29R shown

# Chalet SECTION 8 ENTERTAINMENT

# VIDEO SELECTION SYSTEM –If Equipped



The video selection system allows you to switch the antenna, cable TV, satellite TV system or VCR/DVD signal to any TV set location in the coach.

This means one person can watch a program coming in on the roof antenna on the bedroom TV while another person watches a satellite or cable TV program or video on the front TV.



#### To Watch Broadcast TV (Antenna)

• Press TV ANT button on MAIN TV section of Video Selection System panel.

### To Watch Cable TV

• Press CABLE TV button on MAIN TV section of Video Selection System panel.

### To Watch Satellite TV (Dish)

• Press SAT button on MAIN TV section of Video Selection System panel.

### To Watch DVD

• See "Audio-Video System Basic Operation" elsewhere in this section for basic DVD and home theater setup.

#### To Watch VCR (if self-installed)

• Press VCR button on MAIN TV section of Video Selection System panel.

# To Watch Rear/Bedroom TV (if equipped)

• Video selection for the rear TV is similar to front TV viewing except all selections are made with buttons in the TV2 grouping.

### VCR Group Buttons

- The buttons in the VCR group are for selecting the signal input to a self-installed VCR for taping programs.
- If you wish to tape a program from cable TV press CABLE button. If the program is on the dish, press SAT, and so forth.

# TV-IGNITION SWITCH INTERLOCK – FRONT –If Equipped

If your coach is equipped with a front overhead TV, it is plugged into a special electrical outlet with a built-in ignition switch interlock. The device allows the front overhead TV to operate only when the ignition key is in the Off or Accessory positions.

# AUDIO-VIDEO SYSTEM BASIC OPERATION

NOTE: For your convenience, we have also included a handy, tear-out version of this "A/V System Basic Operation" guide in Section 8 of your Operator Manual Supplement. See your InfoCase for specific operating

guides for audio and video components.

### **DVD HOME THEATER SYSTEM** -If Equipped



The available DVD home theater system operates from 120-volt AC household current only, so you must have either the shoreline connected, the generator running, or the inverter turned on (if equipped).

The TV is connected to the Home Theater System which plays through theater speakers in the lounge area of the coach.

#### Set TV Video Input

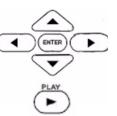
- Turn On both TV and DVD player
- Press TV/VIDEO or • INPUT button on the remote or front of TV and select "VIDEO 1" input on the TV. The TV screen will display the DVD player logo when the correct input is selected.





#### Play DVD with Theater Sound

- Insert DVD into player. DVD will begin to 'load' automatically. TV screen will typically show "READING" or "LOADING."
- The DVD may load directly to the • NEXT main title/menu screen or it may begin ( >> to play previews. You may be able to skip previews if desired by pressing the 'NEXT' button until you see the feature menu screen.
- When the main menu screen appears, use the arrow buttons on the remote to select the desired entry or press the ENTER or PLAY buttons on the remote (or front of DVD



player) to begin playing the feature.

Volume is adjusted with the DVD remote (or • volume control on DVD player).

### **TV Sound through Theater Speakers**

When watching TV programs (broadcast, cable or satellite), the TV normally plays sound through its own built-in stereo speakers.

To connect TV sound output to home theater speakers for a richer sound quality, follow these steps:

- Follow DVD Home Theater steps for power • and TV input setup.
- Turn the TV and DVD player On. •
- Select the TV channel you wish to watch.
- Press FUNCTION button on DVD player or • remote to set DVD player to "AV IN."
- Use the TV Menu button to set TV audio • output to 'Variable Audio Output.' (See TV owner's manual for instructions.) This will route TV stereo sound output through the home theater system.
- Select TV channels and adjust theater speaker • volume with remote for either the TV or DVD.

# **DVD PLAYER** (w/o Home Theater) -If Equipped



The DVD player operates from 120-volt AC household current only, so you must have either the shoreline connected, the generator running, or the inverter turned on (if equipped).

The DVD player is connected to the TV and plays through the TV stereo speakers or the rear radio speakers in the lounge area of the coach, depending on model, floorplan and available option combinations.

#### Set TV Sound Output

Use the TV Menu button to set TV audio output to Variable Audio Output. (See TV owner's manual for instructions.) This will connect TV stereo sound output to rear radio speakers.

# Chalet **D-Series Class-A**

Volume is adjusted with the TV remote or volume buttons.

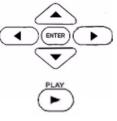
#### Set TV Video Input

- Turn On both TV and DVD player
- Press TV/VIDEO or INPUT button on the remote or front of TV and select "VIDEO 1" input on the TV. The TV screen will display the DVD player logo when the correct input is selected.



#### Play DVD

- Insert DVD into player. DVD will begin to 'load' automatically. TV screen will typically show "READING" or "LOADING."
- The DVD may load directly to the NEXT main title/menu screen or it may begin **PH** to play previews. You may be able to skip previews if desired by pressing the 'NEXT' button until you see the feature menu screen.
- When the main menu screen appears, use the arrow buttons on the remote to select the desired entry or press the ENTER or PLAY buttons on the remote (or front of DVD



player) to begin playing the feature.

Volume is adjusted with the TV remote or volume buttons.

#### **FLIP-DOWN SCREEN VIDEO PLAYERS** (Rear Bunk models only) -If Equipped

The flip-down LCD screen TV/DVD Video Players are mounted overhead in each of the bunk beds.



The Video Players operate independently so the occupant of one bunk may watch a TV program while the other watches a DVD. The players each contain auxiliary audio-video inputs for connection of a video game system or other audio-video equipment if desired.

#### **Headphone Sound**

• The Video Players have no external speakers. Sound is heard through personal stereo headphones, which plug into jacks near the ceiling of each bunk.



Headphones are stored in pockets on the wall of each bunk.

#### **Remote Control and Wireless Sound**

A sensor array inside the front 'dome' of each Video Plaver receives



command signals from the remote control.

The sensor array also continuously transmits wireless sound signals for reception on IR and FM wireless headphones.

# **SECTION 8 ENTERTAINMENT**

See Video Player instruction guide in your InfoCase for remote control instructions and additional information on wireless headphones.

#### **12-Volt Master Power**

The Video Players operate on 12-volt DC current. Turn on the 12-Volt master power (TV) switch shown, located on the back wall of the top bunk.



NOTE: To avoid drain on the 12-Volt house battery, we recommend turning the master power switch off when Video Players will not be in use.

## Video Player Power ON/OFF

• The Video Player will power up automatically when the screen is flipped down.



Slide the Screen Latch to either the left or right to release the flip-down LCD screen.

- The Video Player will automatically power • off about 15 minutes after a DVD is finished no video signal is present.
- The POWER switch may also • be used to switch the Video Player On or Off while the screen is flipped down.



### To Play DVD

Insert the DVD label side down (facing you) into the slot on the side of the player. The player will automatically switch to



DVD mode. The screen will display the DVD logo and begin to read the disc.

The DVD may load directly to the main title/ • menu screen or it may begin to play previews. You may be able to skip previews if desired by pressing the 'NEXT' button on the remote until you see the main menu screen.

- When the main menu screen appears, press the PLAY button on the player or ENTER button on the remote control to begin playing the feature, or use the arrow buttons to select the desired entry.
- Volume is adjusted with the arrow buttons on the player or the remote control.

#### To Play CD Audio (or CD Video)

- The Video Player is also capable of playing • CD Audio music and CD Video discs.
- Insert the CD label side down (facing you) into the slot on the side of the player. The player will automatically switch to proper mode to play audio or video CD.

#### To Watch TV

- Press TV/VIDEO button • to select TV Mode.
- Press the Up/Down arrow • buttons on the remote or player to advance



Chalet

**D-Series Class-A** 

channels in auto stored memory. Specific channels not in auto memory can be selected using the channels using the number buttons on the remote.

See Video Player instruction guide in your • InfoCase for TV channel setup instructions.

#### To Connect Game Systems or Other A/V Components

Plug the audio and video cables of the game system or component into the audio-video input jacks



at the rear underside of the Video Player.

- Switch the game system or component ON. •
- Press TV/VIDEO button on Video Player to select. VIDEO 1 or VIDEO 2 input. (The component logo or other indication



may appear on screen when proper input is selected).

Operate game system or component using the • component's controller(s).



# Chalet D-Series Class-A

• See Video Player instruction guide in your InfoCase for more information.

#### **Reading Lights**

• Slide switch to either position ON or DOOR\* to turn reading lights on.



### REAR BEDROOM TV 12-VOLT POWER SWITCH –If Equipped

The 12-volt TV power switch lets you turn off the TV "instant on" picture tube pre-heating circuit when not using the coach. This will help avoid house battery drain when the engine is not running or the vehicle is not connected to shoreline power.

This switch must be in the 'On' (12 Volt TV) position for the bedroom TV to operate.



# ELECTRICAL INVERTER 300-Watt DC-to-AC

#### -If Equipped

The inverter changes 12-volt DC automotive current into 120-volt AC household current. This allows you to operate your TV and DVD player from the house batteries when shoreline hookup or generator power are not available.

In some models the inverter is also connected to the 120-Volt AC outlet for the bedroom TV\*.

The inverter is typically located in the video center cabinet or on the lower face of the galley cabinet.



#### 300-Watt DC-AC Power Inverter

- Turn Inverter On to operate TV.
- Low Battery indicator will light if 12V house batteries are becoming drained. (Turn Off inverter to avoid total drain.)
- Turn Inverter Off when not in use to avoid draining house batteries.
- The inverter will shut down when the Aux Battery Disconnect switch is turned off.
- \*NOTE: Running high-amperage appliances like the TV and DVD on the inverter can drain the house battery rather quickly unless the chassis engine is running to charge the batteries.

#### **Further Information**

See manufacturer's information provided in your InfoCase for more information.

# **TV ANTENNA**

The TV antenna on your motor home can be easily raised, rotated a full 360° and lowered from inside the vehicle by simply turning a crank or directional handle. A built-in signal amplifier designed to strengthen signals, is controlled by a power switch built into the optional video selector panel or on a wall plate assembly.

See the antenna manufacturer's operation, care and maintenance information in your InfoCase.

# \land WARNING

Never allow the antenna to touch electrical power lines or any other electrical wires.

# SECTION 8 ENTERTAINMENT

#### **Raising Antenna to Operating Position**

Turn elevating crank clockwise in "UP" direction until some resistance to turning is noted (about 13 turns). Antenna is now in operating position.

Turn amplifier power switch "ON" to receive TV signal.



#### **Rotating Antenna for Best Picture**

Make sure antenna is in the "UP" position. Pull down on directional handle using both hands until it disengages ceiling plate and rotate for best picture and sound on TV set.



#### Lowering Antenna to Travel Position

Rotate antenna until pointer on directional handle aligns with pointer on ceiling plate.



Turn elevating crank (counterclockwise) in "DOWN" direction until resistance is noted (about 13 turns). Antenna is now locked in travel position. Turn amplifier power switch "OFF".

# A CAUTION

Always align directional handle to "DOWN" position before lowering.

Never partially raise or lower antenna. Antenna must be raised fully up into operating position or lowered fully down into travel position.

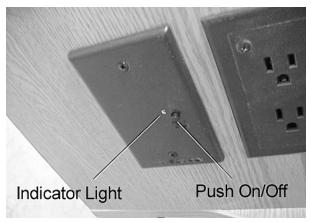
# TV SIGNAL AMPLIFIER

The TV signal amplifier is built into the antenna and can be turned on or off with a power switch inside the coach.

The amplifier power switch is located on a wall plate or on the optional video selection system in the video center.

Wall plates are mounted in various locations depending on floorplan. Some of these wall plates are not easily visible and may be in one of the following locations.

- Inside front overhead TV cabinet, if equipped.
- Inside or underside of a side overhead cabinet.
- In the optional entertainment center on the outside of the coach.



TV Signal Amplifier Power Switch on models without video selection system (Some models may also have a 12-volt outlet and/or coaxial jack on the wall plate.) An indicator light will glow when the switch is on and the signal amplifier is active.



TV Signal Amplifier Switch on Video Selection System – if equipped

NOTE: For coaches without the video selection system, be sure the TV antenna amplifier switch is turned OFF while connected to cable TV and not using the antenna. The antenna amplifier will make the cable TV signal snowy.

#### **Checking Performance**

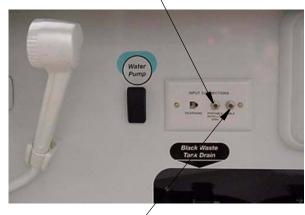
The TV signals available to an RV are entirely dependent on its location in relation to the transmitter (tower). Signals may vary from strong to no usable signal at all. We recommend that the TV system be checked out in an area known to have good TV reception.

To check the antenna amplifier, raise the antenna, select a TV channel and rotate the antenna for best picture. Then turn off the amplifier power switch. If the antenna amplifier is working properly, the TV picture will now be degraded (snowy). When you turn the switch back on, the picture should again be sharp.

# CABLE TV HOOK UP

The cable television connector is located in the utility compartment.

Exterior Connection for Satellite Dishes and Cable TV (In Utility Compartment)



Cable TV Hook-Up in Utility Compartment

#### DIGITAL SATELLITE TELEVISION SYSTEM – MANUAL –If Equipped

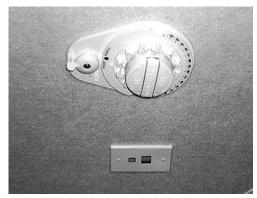
The Digital Satellite Television System allows you to receive TV programs directly from satellite to your coach. The programs are transmitted in digital format so the quality is equal to laser disc or CD.

• Press the SAT switch on the Video Selector Panel to connect the TV to the Satellite system.

See the Digital Satellite System owner's manual in your InfoCase for operation and antenna dish aiming instructions. The coach must be level before attempting to aim the antenna dish.

# SECTION 8 ENTERTAINMENT





Digital Satellite Dish Control located on ceiling



We recommend that you read the satellite dish manual thoroughly to understand the system completely before attempting any setups or adjustments.

## EXTERIOR ENTERTAINMENT CENTER –If Equipped

The exterior entertainment center contains a stereo radio/CD player, electrical outlets and a convenient TV hook-up for your outdoor listening or viewing pleasure.

NOTE: These electronic devices and speakers are not designed to be waterproof. Please take measures to prevent rain or other precipitation from entering the entertainment center by closing the compartment door or ensuring that an awning will prevent entrance of precipitation.

## **Further Information**

Please read the manufacturer's operating information in your InfoCase for operation of Radio/CD player.

# Chalet SECTION 9 FURNITURE & SOFTGOODS

# SWIVEL GLIDER LOUNGE CHAIR

#### -If Equipped

This chair is not equipped with a seat belt and is not intended for seating while the coach is in motion. The chair has a glide-lock mechanism to prevent chair movement while the coach is moving. The glide lock is located behind the seat skirt on the rear side of the seat base mechanism.



# **Hoop Base Chair Mount**

The hoop base of the lounge swivel-glider is mounted to the floor with a clamp as shown.



You can unscrew the knob and remove the clamp to position the chair where you desire in the living area of the coach.





# **A**CAUTION

The chair must be clamped back into place and the glide mechanism locked before traveling.

# **SLEEPING FACILITIES**



Do not use sleeping facilities while vehicle is moving.



# **COUCH/BED CONVERSION**

## Couch to Bed:

Lift the front edge of the couch seat upward and pull outward from the wall while gently pushing downward on the backrest until the cushions lie flat. The bed is now ready for use.

# **Bed to Couch:**

Push the front edge of the seat toward the wall while lifting upward on the backrest until the couch is fully seated against the wall.

#### DINETTE/BED CONVERSION –If Equipped

(Typical view – your coach may vary)

## **Dinette to Bed:**



1. Release the catch on the table leg brace and fold the leg up against the bottom of the table.



2. Remove the table from the wall support bracket by lifting the end of the table. Then lower the table to rest on the cleats attached to each dinette bench.



3. Arrange dinette cushions to cover bed area.

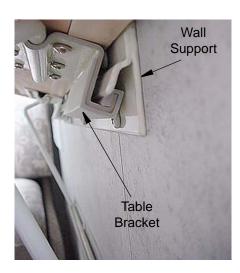




### **Bed to Dinette:**

1. Reattach the table onto the wall support and lower the table leg.





2. Make sure that the table leg is secured into the floor support bracket and the leg brace is locked.



# DAY/NIGHTER PLEATED BLINDS

#### -If Equipped

Your coach may feature two-stage pleated window blinds that can be used for daytime or nighttime privacy.

# Sun Filter

The lower section is a translucent white shade that can be lowered for privacy without darkening the inside of the coach. It can also filter out harsh direct sunlight to help keep the inside of the coach cool in summer or to disperse light for houseplants.

#### **Room Darkening/Privacy Shade**

The upper section is an opaque, darkening shade for nighttime privacy and daytime room darkening purposes. Pull both sections down together or separately.

See Maintenance & Storage section for adjustment and care instructions.

# WOOD FURNITURE AND CABINETRY

#### -If Equipped

People are drawn to the natural beauty of wood. At Winnebago Industries, our craftsmen work with the art found in each piece of wood to create cabinets of superior quality, backed by the Winnebago Industries warranty.

- Oak is a strong, open-grained hardwood that ranges in color from white to pink and reddish tones. Streaks of green, yellow and even black may appear due to mineral deposits. Oak may also contain wormholes and wild, varying grain patterns. This distinct graining is considered a desirable quality and has made oak one of the most popular woods used for cabinetry.
- Maple is a close-grained hardwood that is predominately white to creamy-white in color, with occasional reddish-brown tones.
   While maple typically features uniform graining as compared to other wood species, characteristic markings may include fine brown lines, wavy or curly graining, bird's eye dots and mineral streaks. These traits are natural and serve to enhance maple's natural beauty.
- Cherry is characterized by its red undertones, but may vary in color from white to a deep, rich brown. Cherry is a close-grained wood with fairly uniform texture, revealing pin knots and curly graining. All wood will age with time and the finish will darken. This is especially true for cherry. This is a soughtafter quality in cherry cabinetry, and those who select it expect this evolution.

## SECTION 9 FURNITURE & SOFTGOODS

No matter which species you choose for your new Winnebago Industries motorhome cabinetry, please keep in mind that no two pieces of wood are exactly the same.

Stains are likely to exaggerate the difference between open and closed grains and other markings in wood. Grain variation and color change should be expected. As hardwood ages, it will darken when exposed to different types of light. Color differences or changes in wood can also be caused by exposure to harsh chemicals, extreme heat or other contributing external conditions.

Any color change that occurs in both the finish and the wood is considered part of the natural aging process and is not to be considered defect or damage.

Additionally, wood species exhibit other defining characteristics, such as mineral deposits/streaks, knots, sap runs, pin holes and wormholes. These markings make the wood unique and contribute to its enduring beauty.

Therefore, since wood is a product of nature and will have certain natural characteristics and variances they are not covered under the warranty.

# Chalet SECTION 10 SLIDEOUT / LEVELING

# SLIDEOUT ROOM OPERATION - ELECTRIC

Slideout rooms provide a spacious living area at the push of a button.

The main slideout control switch is located near the entrance door or Systems Monitor Panel.

If your model is equipped with a rear/bedroom slideout room, the switch will be located on a wall in or near the bedroom.



Slideout Switches (typical) Your coach may have one or more of these switches depending on model, options and available equipment.

The slideout room system uses 12-Volt DC motorized mechanisms with an electronic control system to provide smooth operation and positive weather seal.

NOTE: We recommend that you KEEP THE ENGINE RUNNING WHILE EXTENDING OR RETRACTING SLIDEOUT ROOMS so the engine alternator can provide maximum power for proper operation of the slideout mechanisms.

# **Travel Strap**

The travel strap **must be released before extending the room** or damage to the coach will result.

The travel strap is designed only to help keep the room extension secured against the coach sidewall to maintain an effective weather seal while the vehicle is in motion. It is not designed to withstand the force exerted by the room extension mechanism and will not prevent accidental extension of the room.

The travel strap is located near the floor at the front end of the slideout room.

#### To Release:

- Pull the strap buckle outward and up to release tension on strap.
- Pull a short length of the excess strap back through the buckle to provide sufficient slack.
- Unhook the strap end peg from the mooring bracket on the floor and wall edge. Store strap in location of your choice. (Under the couch is one choice.)





### To Fasten Strap:

Hook the strap end peg into the mooring bracket.

# SECTION 10 SLIDEOUT / LEVELING

- Flip buckle downward and press toward strap until it "snaps" snugly into place against the strap.
- If a strap is loose or too tight after closing the buckle, release the buckle and pull the loose end of the strap in or out to adjust tension as needed. Then re-close the buckle.

# WARNING

Keep all persons clear of the slideout room and moving parts while extending or retracting. Do not occupy the slideout room while it is being extended or retracted.

# **To Extend Slideout Room**

#### **Before Extending!**

- Level the coach and set the Parking Brake.
- Release the safety travel straps inside the coach (front slideouts only).
- Make sure exterior compartment doors are closed so that they will not interfere with slideout operation.
- Make sure that there are no people who could be harmed or obstacles that could cause damage due to room extension.
- If the slideout room has a couch or other furniture, make sure no people or pets are seated on them until the room has been fully extended.

# A CAUTION

Release slideout room travel straps before attempting to extend slide-out room. Fasten travel straps before driving vehicle.

#### **Extend Procedure:**

#### See "Before Extending!" before proceeding.

- Start the engine so the alternator can provide maximum power for proper operation of slideout mechanisms.
- Press the Slideout Room 'EXTEND/OUT' switch and hold until the room is fully extended- then release the switch.
- To stop extending the room during operation, release the button.

# To Retract Slideout Room

#### **Before Retracting!**

- Be sure the coach is level and the Parking Brake is set.
- Check the outside of the coach to make sure there are no people, pets or obstructions near the slideout room.
- Make sure that there are no people who could be harmed or obstacles that could cause damage due to room retraction.
- If the slideout room has a couch or other furniture, make sure no people or pets are seated on them until the room has been fully retracted.
- Remove all items from the coach living room floor, close cabinet doors and drawers. Be sure there are no items at the end of the bed or behind the driver seat or protruding from compartments which could be crushed or cause damage to floor covering or cabinets when the room is retracted.

# 

Although there is an awning over the roof of the slideout room, there is a possibility of debris getting onto the roof. Because the slideout roof is drawn into the interior of the coach when retracted, be sure there is no debris, such as excessive dirt, tree seeds, twigs, leaves, etc. on the roof before retracting.

## Chalet **D-Series Class-A**

# SECTION 10 **SLIDEOUT / LEVELING**

#### **Retract Procedure:**

#### See "Before Retracting!" before proceeding.

- Start the engine so the alternator can provide maximum power for proper operation of slideout mechanisms.
- Press the Slideout Room 'RETRACT/IN' switch and hold until the room is fully retracted- then release the switch.
- To stop retracting the room during operation, release the button.
- After the room has been retracted, refasten the safety travel straps.

## **SLIDEOUT ROOM - EXTREME** WEATHER PRECAUTION

Certain extreme weather conditions, such as heavy rains, heavy snow, and high winds - or any combination of these - could cause damage to the slideout room awning-cover (if equipped) or reduce effectiveness of the slideout room weather seals.

Also, freezing rain and snow can prevent the slideout awning-cover (if equipped) from closing and may cause damage to the awning-cover, slideout room, weather seals and mechanisms.

To avoid potential damage, we recommend retracting your slideout room(s) during extreme weather conditions.

### SLIDEOUT ROOM **TROUBLESHOOTING -**ELECTRIC

#### **Battery Voltage or Circuit Breaker Problems**

If the slideout room will not work:

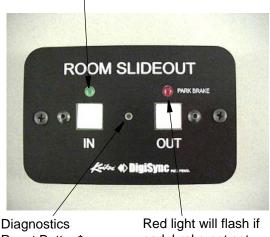
The chassis battery may be low on charge. Press and hold the Battery Boost switch on the dash while pressing the slideout control switch. This momentarily connects the house batteries to assist in retracting the room.

The circuit breaker may be tripped. The circuit breaker, labeled 'Slideout Power' is located on a panel on an interior wall of the passenger side storage compartment just behind or ahead of the entrance door.

## **Problems Retracting the Room**

Set the Park Brake if the red Park Brake light flashes while pressing the Retract button.

Green light will flash error code if system malfunctions\*



**Reset Button\*** 

park brake not set.

\*Not equipped on single mechanism systems

If an error is detected on your DigiSync Room Slide System, the green LED on the left side of the control panel will blink an error code. If an error code appears, see the On Board diagnostics section to determine the problem. The error code must be cleared prior to operating the room. To clear the error, press the "RESET" button with a small tool such as a toothpick. Before operating the room after an error has been detected, check for obvious faults such as obstructions prior to trying to operate the room again. If the error code appears again, the room will need to be retracted using either the manual retraction method or the fully manual method. Both methods listed below are intended as a means to retract the room to prepare the coach for travel to the nearest authorized Service Center.

To retract the room after an error is detected, you override the synchronization programming and operate the room in the Manual Mode.

# SECTION 10 SLIDEOUT / LEVELING



#### Manual Mode:

Manual Mode lets you individually move the two room arms by pressing the IN and OUT buttons on the control pad. <u>This mode can be used</u> <u>only if there is not a motor failure or full</u> <u>electrical system failure</u>. To override the encoder and enter the Manual Mode, press and hold the RESET button until the two LEDs begin to flash.

While in the Manual Mode each of the two, room slide arms are activated by pressing and holding the IN and OUT buttons. The "OUT" button will retract the front arm. The "IN" button will retract the back arm. Both IN and OUT buttons may be held down at the same time to simultaneously activate both arms to retract the room. If one side of the room gets ahead of the other, release that button until the other arm catches up. The current limiting feature of the control still functions in the Manual Mode so each side can be fully retracted until it stops.

# 

Never let one side get more than 2 inches (50 mm) ahead of the other while retracting.

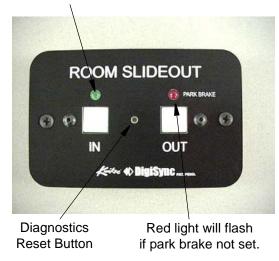
Once the room has been retracted, the control will return to the automatic mode after 60 seconds. You can manually return to automatic mode by pressing the stop button.

In the event of a total system failure where Manual Mode cannot be used, two crank handles may be used to retract or extend the room.

#### **Problems Extending the Room**

Set the Park Brake if the red Park Brake light flashes while pressing the Extend button.

Green light will flash error code, if system malfunctions



If an error is detected, the green LED on the left side of the control panel will blink an error code. If an error code appears, see the Error Codes chart in your InfoCase. The error code must be cleared prior to operating the room. To clear the error, press the "RESET" button with a small tool such as a toothpick. Before operating the room after an error has been detected, check for obvious faults such as obstructions before trying to operate the room again. If the error code appears again, the room will need to be extended using the crank method described in the previous section. The crank method is provided as a means to extend the room if there is a failure in the automatic system. If the room must be extended using the crank method, keep in mind it is likely that it must also be cranked in to retract. After the outing is completed and the room is retracted fully, take the coach to the nearest authorized service center for inspection.

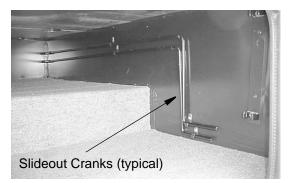
#### **Further Information**

See the Slideout Room operating guide included in your InfoCase for further instructions, and troubleshooting information.

# SLIDEOUT EMERGENCY RETRACTION – ELECTRIC (Front Slideout Room)

# **Crank-In Mode**

If the room will not retract using the buttons and the mechanism is apparently malfunctioning, you may need to manually crank the room in to the travel position. The cranks are stored on clips on the wall of an exterior storage compartment.



The crank sockets are located behind exterior storage compartment doors.

Insert the crank handle into the socket and align the notches in the crank handle with the pins on the drive shaft as shown.



It may be necessary to move the handle slightly from side to side to fit it onto the shaft. The crank handle will only move the arm that it is inserted into. Consequently you will need to alternate between each crank handle on each side to move the room in or out. If help is available a second person cranking on the other handle simultaneously will greatly speed up the process. At no point in the cranking process should you let one side get more than 2 inches (50 mm) ahead of the other. The most effective way to retract the room using a single person is to crank one side ahead of the other, then crank the other side in ("walk" the room in).



Never let one side get more than 2 inches (50 mm) ahead of the other while retracting.

## **Further Information**

See the Slideout Room operating guide included in your InfoCase for further instructions and troubleshooting information.

### SLIDEOUT EMERGENCY RETRACTION/ BEDROOM – ELECTRIC –If Equipped

# **Crank-In Procedure**

1. Locate the tools in the right front side storage compartment - a ratchet wrench, a hex-end shaft and an extension shaft. (The ratchet wrench may be packaged in the InfoCase.)



2. Locate the small, round access hole in the bed base at the foot of the bed.

# SECTION 10 SLIDEOUT / LEVELING



3. Attach the shaft extension to hex-end shaft and place the ratchet wrench onto the hex end shaft, then insert into the hole in the bed base as shown.



4. The slotted end of the tool must engage with the pin in the endshaft on the slideout gear assembly. See arrow in close-up detail.

the bed, remove the access cover to access the gear endshaft, and continue using the wrench and hex shaft only as shown.



# **GENERAL SLIDEOUT CARE**

- Wipe outer seals occasionally with talc or 303 brand protectant for smooth quiet operation.
- Clean the floors inside before retracting the room to avoid vinyl flooring scratches or carpet pile snags.
- See your authorized dealer for regular maintenance and service of the slideout mechanism.



- 5. Crank the ratchet wrench clockwise (to the right) to retract the room. The tool will extend nearly a foot out of the bed base at first, but will be drawn into the bed base as the room is retracted. This is a slow process that will take some time and quite a few turns of the wrench.
- 6. As the room retracts, the bed base will move away from the gear endshaft, which will eventually cause the tool to lose contact with the shaft. When this happens you must raise

# LEVELING SYSTEM –If Equipped

The hydraulic leveling system control pad is located on the lower left side of the dash.

The leveling system makes selecting a parking site easier and faster by reducing the effect of uneven ground. Hydraulic jacks raise the affected low corners of the coach to make leveling "set up" faster and easier for you.



See the Leveling System Operator Manual in your InfoCase for complete operating instructions. It also contains additional precautions, technical information, and instructions for manual operation if automatic functions fail.



NOTE: When parking at an uneven site, always park the front of the motor home to the downhill side. This allows you to level by raising the front end rather than the rear. Since only the rear wheels are locked while in PARK, raising either one or both of the rear wheels off the ground could allow the vehicle to roll off the jacks.

# \land WARNING

Keep all people clear of the coach while the leveling system is operating.

- Do not use the coach leveling system as a lift for changing tires or working under the vehicle.
- Never check for hydraulic fluid leaks using your hands and/or any other body part. The leaking fluid is under pressure and is capable of cutting and penetrating your skin, resulting in severe injury.
- When extending the rear stabilizers, do not lift the wheels beyond ground contact. This makes it possible for the vehicle to roll unexpectedly forward (or backward) off the jacks. This could cause severe injury or death.
- Do not use the leveler as an emergency brake. They are not designed for any type of vehicle braking purpose.
- Do not use the levelers on icy or slick surfaces on which the foot pads may slip.

# **A**CAUTION

Do not rely only upon the warning lights to indicate when jacks are up. It is the owner's responsibility to check that all jacks are up before moving the coach.

# Auto Level Remote Switches (if equipped)

If your coach is equipped with an automatic leveling system, in addition the dash control panel, there are two additional remote switches for your leveling convenience.

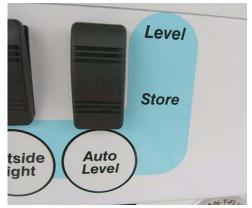
# SECTION 10 SLIDEOUT / LEVELING

These switches allow you to extend or retract your jacks and observe them at the same time. It also allows you to stop them suddenly, if needed, without having to climb in and out of the coach.

The remote switches are located just inside the entrance door and in the utility service center.



Auto Level Switch inside Entrance Door



Auto Level Switch in Service Center compartment

# **Jacks Down Light**

The "Jacks Down" reminder is intended to warn you to retract your leveling jacks before moving the vehicle. The light will come on briefly and a chime will sound when the ignition key is turned to the On or Run positions if the jacks are down.



NOTE: If the leveling jacks should fail to retract, see "Troubleshooting" and "Control Panel Jumper Instructions" in the Leveling System Operator's Manual included in your InfoCase.

# In The Event Of Accidental Jack Extension

- 1. Bring the vehicle to a safe and complete stop as soon as possible.
- 2. Turn the leveling systems power switch on and press the 'all up' switch.
- 3. Visually inspect the vehicle undercarriage for any problems.

# **Further Information**

See the Leveling System Operator's Manual supplied in your InfoCase. It contains detailed instructions, precautions and technical information. It also contains troubleshooting instructions for operating the leveling system if any functions fail.

# Chalet SECTION 11 MAINTENANCE/STORAGE

# SEALANTS

Water is a recreational vehicle's worst enemy when it is allowed to enter where it's not intended. Sealants perform a very important function and should be inspected closely and maintained regularly. Winnebago Industries utilizes many different types of sealants. Refer to the Recommended Sealant Application page at the end of this Section.

Sealants, in general, do not have "set" lifetimes. Varying environmental factors affect the pliability and adhesiveness of sealants. You or your dealer must:

- Inspect all sealants, a minimum of every six months.
- Inspect the moldings, windows, clearance lights, exterior compartment doors and all their attachments.
- Also, inspect weather seals around entrance door, etc., and if necessary have a dealer replace them immediately.
- Check for cracks, voids, gaps, breaks, adhesion, and any sign of physical deterioration.
- NOTE: Proper sealant inspection includes not just visual observation but running a finger along sealant seams to verify proper adhesion to the surface. Any loosened areas must be replaced.
- Have the sealant replaced if you notice any of the above. Your local Winnebago Industries dealer has the correct and necessary parts and experience to help you maintain your sealants. See the Recommended Sealant Application page at the end of this Section.
- Always use the same type sealant that was removed.
- Immediately have dealership check moldings, windows and exterior attachments for leak source if you notice water inside of unit.

# A CAUTION

Sealants must be inspected every 6 months and replaced if necessary.

# ROOF

# \land WARNING

Stay off roof. Roof surface may be slippery. Falling could result in death or serious injury.

The roof is made of Thermo-Panel materials like the walls and floor. It will support the weight of an average adult for periodic maintenance or repair of the roof or roof mounted components.

Walking or working on the roof should be left to qualified service personnel using proper safety equipment in a safe environment. You should only walk or work on the roof if you are qualified and have created a safe environment.

For your safety, it is not recommended that you store or carry items on the roof.

Always have damage to the roof area repaired immediately. Damaged or detached sealant around the vents, air conditioner, body-to-roof seams, etc., should also receive immediate attention. Delaying these repairs may allow water leakage and result in damage to interior ceiling and body panels, upholstery, etc., which is not covered by the limited warranty (see Introduction section).

## UNDERBODY

Buildup of mud and dirt under the body can cause damaging rust on steel parts and can add needless weight to the vehicle. This, in effect, reduces the amount of cargo you can carry and remain within GVWR and GAWR limits.

Corrosive materials, such as those used for ice and snow removal and dust control, also accumulate on the underside of a vehicle. These materials should be removed by flushing the underbody regularly with water, especially areas where mud and other foreign materials collect.

# EXTERIOR AUTOMOTIVE PAINT FINISH

#### –If Equipped

The body of your coach is fully or partially finished with the highest quality automotive paint and clearcoat. Follow these precautions to keep the finish on your coach looking its best and preserve maximum gloss and durability.

# Parking

- Avoid parking under trees When this happens you should rinse the bird droppings and tree sap off as soon as possible. Tree sap is a form of sugar and will dissolve after a couple of rinses. Bird droppings can eat into a painted surface if left unattended and need removed as soon as possible. Lukewarm soapy water can help speed up the cleaning process.
- Avoid parking near salt spray When this happens you need to rinse off the salt mineral residue to minimize the corrosiveness of the salt.
- Avoid parking near factories with heavy smoke or industrial fallout – Industrial fallout can eat into your coaches finish when dew or rain mixes with it to create nitric or sulfuric acid that gets magnified by the intensity of the sun. As the water evaporates the acid becomes more powerful and attacks the painted surface.

Rinsing and washing the surface helps remove

the fallout and neutralize the acid. After the initial 60-day cure stage, a coat of wax or polish can help protect the surface from these types of contaminates.

• Do not scrape ice or snow from the painted surface. Brush off gently with a soft-bristled 'snow brush' – avoid being forceful with the brush.

If brush scratches show after the motorhome thaws out, it may be possible to remove them by hand waxing with a silicone-free liquid wax.

## Driving

- Avoid driving on gravel roads.
- Rinse off bugs and bird droppings with water daily.
- Antifreeze, fuel or windshield/window solutions spilled on the painted surface should be rinsed off immediately with water and allowed to air dry. Wiping dry with a towel may create fine scratches due to the solvent nature of these types of fluids.
- Fuel cannot be diluted and dissipated with water. It must be removed with a mineral spirit type cleaner (such as SEAFOAM Bugs-B-Gone or equivalent) or a silicone-free spray wax and micro fiber cloth to remove the stain left by fuels.
- Note: When driving in wintry conditions the road surface may be covered with heavy salts or small rocks to improve road traction. These types of road conditions can cause undue surface damage to your RV. Please refrain from driving in these conditions

# Washing

• Commercial vehicle wash facilities should be strictly avoided! They will scratch your RV!

This is because truck style wash centers have high-pressure wands that emit higher than necessary water pressures and the brushes are very aggressive. Most truck wash brushes are made from a heavy plastic for durability and are

# Chalet D-Series Class-A

under heavy pressure. They are designed to clean heavy road films on semi trailers and are often dirty. They are not designed for custom painted RV's and they will scratch the clearcoat finish. Many times these scratches can penetrate the clearcoat finish causing delamination and/or other paint related issues that are not covered under warranty.

- Wash your RV with cool or lukewarm water using a mild soap- such as a baby shampoothat does not contain bleach solution. Most auto stores offer car wash detailing soaps that are similar and do not have bleach in the formulation (*such as Meguiars #62*).
- Never use a bristled brush or broom to wash the painted surface. This will cause scratches in the finish. – Use a clean lamb's wool mitt, sponge or microfiber mitt (or mop) to wash your unit.
- Be sure your cloth or applicator is clean. A dirty applicator can scratch your RV.

#### Washing Procedure

- Rinse area to be washed with cold water to remove surface residue. Make sure you are not in direct sunlight.
- With area to be washed still wet from the rinse, use the recommended soapy mixture to clean the area. Use care to make sure that a clean lambs wool mitt, sponge or Microfiber mitt or mop is used to apply soapy water.
- Rinse washed area before soap evaporates.
- Dry the rinsed area before the water evaporates.

NOTE: Avoid aiming water flow from a hose or spray from high pressure washing equipment into any appliance intake because damage or difficulty in operating appliances may occur.

• After washing the coach, carefully inspect sealant around window frames and vents and any other joints that may have loosened or separated. See "Sealants" at the beginning of this section for details.

#### **Bug Removal**

- Rinse the loose debris off with water and allow the remaining residues to soak and soften. Use soap and water to wash the residue, then rinse. (You may wish to repeat and leave soap on longer than normal to help with softening hardened residue.)
- For more stubborn areas use an ammonia based glass cleaner followed by a warm soapy water wash and a rinse.
- Remember to use micro-fiber towels during this process to help avoid scratches.
- If this does not work, as a last resort, use a bug removal product (*like SEAFOAM Bugs-B-Gone or equivalent*) in a shady area and follow the directions on label.

# Polishing and/or Waxing

- NOTE: When your coach is new or has been repainted for any reason, no polish or wax should be applied to the finish until after a 60-day cure cycle at temperatures higher than 60 degrees for 60 days. Failure to observe this precaution could void your paint warranty.
- We recommend a silicone-free polish (*such as Meguiars M8132 Hand Polish or Machine Polish*) with an orbital machine and terry cloth applicator.
- Liquid waxes are easier to apply and bring to a gloss with fewer residues.
- Avoid paste waxes. They sometimes have fillers and additives that give a very short term result. Stay away from silicones in polishes and soaps.
- Buffing Compounds remove some of the mil film of the clearcoat, so we recommend that only professionals or very experienced users apply this type of product.

# CARE OF APPLIQUES AND DECALS

The pressure-sensitive appliques and decals on your coach require very little maintenance. They should be treated like any painted surface on your vehicle.

Here are a few helpful hints on caring for decals:

- Wash appliques and decals with plain soap and water or any retail car wash soap. Always rinse thoroughly.
- High pressure water spray may loosen or damage appliques and decals.
- Test any cleaning solution on a small section of appliques or decal before using.
- Never use aromatic solvents such as acetone, MEK, toluene, xylene, lacquer thinner, etc., on appliques or decals. Any solvent including alcohol may soften or smear colors.
- Fuel or antifreeze spilled on appliques or decals should be rinsed off immediately with water.

# **PLASTIC PARTS - CLEANING**

Many parts in your motorhome, such as the dash, exterior light lenses, and certain exterior body panels are made of high-impact plastic materials that can be damaged by wiping with solvents or improper cleaning products.

Always try cleaning plastic parts with the mildest cleaners first and work your way up to stronger cleaning products. Use the following cautionary lists as a guide when selecting cleaning products to use on plastic parts.

# **A**CAUTION

# DO NOT use citrus based cleaners on polycarbonate finishes.

Citric compounds will damage the highgloss surface, causing it to appear dull or 'flat'.

Always test a cleaning product on a hidden area to be sure it will not cause damage to the appearance of the part.

Here is a list of mild cleaners that **may be used** safely:

- Car washing soap and water
- Glass cleaners without ammonia
- Mineral oil
- Multipurpose cleaners (such as Fantastik<sup>®</sup>, Formula 409<sup>®</sup>, etc.)

The following products, compounds or solvents must be **wiped off immediately** to avoid damage:

- Ammonia
- Brake fluid
- Bathroom basin, tub and tile cleaners
- Chlorine
- Ethyl alcohol
- Isopropyl (rubbing) alcohol
- Kerosene or gasoline
- Naphthalene
- 'Pine' type household cleaners

**Do not use** cleaners containing the following products, compounds or solvents. These products **will damage** the finish.

- Acetic acid
- Acetone (nail polish remover)
- Aromatic solvents (lacquer thinners)
- Benzene
- Butyl alcohol

# **INTERIOR SOFT GOODS**

We recommend a weekly routine of vacuuming all fabrics and carpet throughout the motor home to prevent an accumulation of dirt which can detract from the appearance and shorten the life of carpet and fabrics.

## **Fabric Upholstery**

Some fabrics used in this motor home may contain fire retardant and lightfastness additives which can be damaged by use of improper cleaning products. Some water-based household cleaning products are not formulated for use on fabrics and may cause excessive shrinkage or fading. Always test any cleaning product on a hidden area of fabric before using on visible areas. For best results, fabric cleaning should be referred to a professional carpet and upholstery cleaner.

NOTE: To minimize fading of upholstery, carpets and other interior fabrics caused by excessive sunlight, the drapes, blinds or shades should be closed when the motor home is parked for an extended period of time.

# \land WARNING

When cleaning upholstery and fabric, do not use lacquer thinner, nail polish remover, laundry soaps, or bleach. Never use carbon tetrachloride, gasoline, or naphthalene for any cleaning purpose. These materials may cause damage to the material being cleaned and most are highly flammable.

## Leather Upholstery –If Equipped

#### (not available on all models)

The optional leather seats are made of top quality cattle hide leather.

• We recommend using a mild soap with water applied gently to the solid areas. Buff dry immediately with a soft cloth to avoid water spotting. Avoid harsh and excessive rubbing while cleaning. Soft leather needs delicate care.

- Never use harmful substances (e.g. stain removers, solvents, saddle soap, shoe polish or other unsuitable fluids) on soft leather.
- Cleaning and touch-up kits are specifically formulated for leather upholstery are available from most furniture dealers.

#### Ultraleather HP Leather-Like Upholstery –If Equipped (not available on all models)

Ultraleather HP<sup>™</sup> synthetic leather fabric material has the luxurious look and feel of the finest European calfskin, with the durability and resistance to soils and stains of vinyl fabrics. It is also tougher than real calfskin and has superior resistance to punctures, snags and rips.

For most soils and stains, the fabric manufacturer recommends spot treatment with a solution of water and Tide<sup>™</sup> brand laundry detergent or equivalent. More stubborn stains may be treated with a water-based multipurpose cleaner/degreaser such as Simple Green<sup>™</sup> or equivalent. Solvent cleaners such as nail polish remover or other aromatic solvents are not recommended.

#### **Care Instructions**

- Spot clean with mild soap and water.
- Air dry or, if desired, dry quickly using a hair dryer on warm setting not hot.
- For stubborn stains, use cleaner-degreaser.

Type of Stain	Detergent/ Water	Cleaner/ Degreaser
Coffee, Tea	•	
Red Wine, Liquor	•	
Cola, Soft Drinks	•	
Milk	•	
Ketchup	•	
Steak/Soy Sauce	•	
Mayonnaise, Butter	•	•
Salad Oil	•	•
Chocolate	•	•
Cosmetic Makeup	•	•
Lipstick	•	•
Face Cream	•	•
Suntan Oil/Lotion	•	•
Shoe Polish	•	•
Urine	•	•
Machine Oil		•

# Vinyl Fabrics (including ceiling) –If Equipped

Vinyl should be cleaned with a soft, damp cloth, and a mild detergent only. Do not use solvents. Solvents may damage the surface of the vinyl.

# Draperies, Curtains and Bedspreads

These items may be woven from a variety of fabrics. We recommend that these be professionally dry cleaned only. A five percent shrinkage may occur when you have these items dry cleaned.

# **General Stains**

As with any stain or contamination, the quick response is the best, especially when done in conjunction with the proper cleaner for the type of stain.

# **CEILING FABRIC CARE**

While using your coach, your ceiling fabric may become soiled and require spot cleaning from time to time.

These materials are made from polypropylene or polyester synthetic fibers, so they clean very well with virtually no damage to the color or fabric itself. Most commercially available carpet and upholstery cleaners will do an excellent job removing stains. From time to time, additional cleaning methods may need to be used to remove stubborn or difficult stains.

The following cleaning chart is provided as a guideline for care and cleaning of ceiling fabrics used in your coach.

Type of Stain	Cleaning Agent	How to Remove
Mustard	Dry-Clean Solvent	Scrub-Soak-Blot Dry
Ketchup*	High Strength Detergent	Scrub-Soak-Blot Dry
Coffee*	High Strength Detergent	Scrub-Soak-Blot Dry
Chocolate*	Detergent	Scrub-Soak-Blot Dry
Теа	High Strength Detergent	Scrub-Soak-Blot Dry
Chewing Gum	Dry-Clean Solvent	Scrub-Soak-Blot Dry
Oil	High Strength Detergent	Scrub-Soak-Blot Dry
Grease	High Strength Detergent/Degreaser	Scrub-Soak-Blot Dry
Tar/Asphalt	K-1 Kerosene/Thinner	Scrub-Soak-Blot Dry
Wax	Detergent	Hot Iron on Detergent-Soaked Towel/Cloth
Rust	Rust Remover	Scrub-Soak-Blot Dry
Dirt*	Detergent	Scrub-Soak-Blot Dry
Lipstick	Dry-Clean Solvent	Soak-Blot Dry
Nail Polish	Dry-Clean Solvent	Soak-Blot Dry
Shoe Polish	Dry-Clean Solvent	Soak-Blot Dry
Crayon	High Strength Detergent	Scrub-Soak-Blot Dry
Marker (indelible)	Detergent	Scrub-Soak-Blot Dry
Ink (Ballpoint Pen)	Dry-Clean Solvent	Soak-Blot Dry
Pencil Lead (Graphite)	Detergent	Scrub-Rinse-Blot Dry
Vomit*	High Strength Detergent	Scrub-Rinse-Blot Dry-Deodorize w/Vinegar
Urine*	High Strength Detergent	Scrub-Rinse-Blot Dry-Deodorize w/Vinegar
Blood*	High Strength Detergent	Scrub-Rinse-Blot Dry
Excrement*	High Strength Detergent	Scrub-Rinse-Blot Dry-Deodorize w/Vinegar

NOTE: In many cases listed above, repeated steps may be required to fully extract contaminant from material. Items listed above with (\*) may also be removed through steam extraction method by a professional cleaner or service. Always check to see that the cleaner used will not cause damage to the material or fabric by testing on an area out of sight.

#### Water Stains

Water stains should be cleaned with a mixture of 1/4 cup of white powdered or clear liquid laundry detergent (no coloring) in a bucket of warm water. Working with a clean sponge or white cloth, start from the outside of the stain and work your way to the center. This method will keep the stain from spreading. Do not over saturate as this may cause de-lamination. No need to scrub, simply rub lightly or dab the stain.

You may have to repeat this procedure more than once to achieve desired results. Finish up with clean water, using the same method, and blot dry.

Chalet D-Series Class-A

Steam cleaning is also an option. Again, take care not to over-saturate the material.

*REMEMBER, this is polypropylene—basic plastic—so do not be afraid to clean it.* 

# CABINETRY

Wooden items may be cleaned with a soft cloth and a good quality wood finish cleaning product.

Vinyl simulated wood panels may be cleaned with a mild, water based cleaner and a soft cloth. Do not use solvents on vinyl wood panels.

NOTE: Many cabinetry and furniture items throughout this motor home are constructed either partially or completely of real hardwoods. Because of natural variations in woodgrain density, slight differences in stain hue may exist between one item and another. This is the distinctive character and beauty of real wood.

# TABLES AND COUNTERTOPS

Work surfaces are covered with a plastic or thermo-formed laminate that resists solvents, stains and abrasions. A coat of furniture wax applied to these surfaces on the counters and table will help preserve their beauty and make cleaning easier. Always clean the surface before applying wax.

# GALLEY SINK

### **Care and Cleaning Instructions**

The galley sink has been designed and engineered to resist scratches and should not stain under normal household use if used properly.

To keep this product looking its best, we recommend that you take a few easy precautions.



#### **General Cleaning**

Rinse all food and beverage residue from the sink as soon as possible. Some food & beverage residues, if left to sit in the sink, may require the use of detergent or an abrasive cleaner.

# Hard-to-Remove Food and Beverage Residue.

Use an abrasive cleanser such as Ajax<sup>®</sup>, Comet<sup>®</sup>, Bon Ami<sup>®</sup> or Bar Keeper's Friend<sup>®</sup>, to remove mild stains and for routine cleaning. Use an abrasive pad such as Scotch-Brite<sup>®</sup> to remove most of the tougher stains.

For the most stubborn stains, fill the sink about one quarter full with a 50/50 solution of bleach and water. After 10 or 15 minutes of soaking drain solution from the sink as you rinse both sides and bottom.

NOTE: Do not use steel wool or metal scouring pads.

#### Mineral Based Stains.

Cleaners designed to remove iron or rust should not harm the sink, nor will solvents such as denatured alcohol, mineral spirits or acetone.

#### Marks or Discoloration.

White automotive rubbing compound may be used to remove stubborn marks or discoloration. Use of these products will not damage the solid surface. Always follow label directions.

NOTE: Improper use may damage this product and void the warranty.

# **RANGE AND REFRIGERATOR**

For care and appearance maintenance of the range and refrigerator, refer to the operation and maintenance manual for each of the individual appliances included in your InfoCase.

# BATHROOM

### Toilet

For instructions on the care of your toilet, refer to the information in your InfoCase.

### **Tub and Shower Walls**

The tub and shower walls in the bathroom should be cleaned with a mild soap and water solution. Do not use an abrasive cleaner on the shower door frame and towel bar, shower walls or tub.

#### **Lavatory Sink**

The lavatory sink is made of the same material as the galley sink. See *Galley Sink - Care and Cleaning Instructions*.

### **DOORS AND WINDOWS**

Windows may be periodically cleaned with a good quality glass cleaner or mild soap solution using a soft cloth. Use care when removing ice or frost from the windows. Always use a plastic ice scraper, never one made of metal. Use care when removing ice from the mirrors to protect the reflective surfaces.

Door locks and hinges should be lubricated periodically with powdered graphite to ensure trouble-free operation and to protect against freeze-up.

# DAY/NIGHTER PLEATED BLINDS – CARE/ADJUSTMENT

### **Tension Adjustment:**

The tension of the pleated blinds can be adjusted if they become loose and will not stay up when raised, or they are too tight and are difficult to raise and lower.

#### To tighten tension

Wrap the lower end of the guide cords (on each side of the shade) a few turns around the spools at the lower corners of the blinds.



#### To loosen tension

Unwrap the guide cords from the spools one turn at a time until desired tension is achieved.

#### **Preserving Shape:**

The pleated blinds are made using high quality materials that are designed and woven to retain their shape throughout their useful life. They may lose their crisp shape, however, if left in a lowered position for an extended period of time without being raised periodically. If this happens, the pleats can be restored using this simple method.

- With the blind fully lowered, dampen the entire area of the pleats with a good quality laundry spray starch.
- Raise the blind fully while still damp and let it remain in the raised position for about 24 hours.
- Reapply starch periodically (every few months) as needed.

# PREPARING VEHICLE FOR STORAGE

Properly preparing your vehicle for storage will lessen the possibility of damage to your vehicle. Prepare the motor home for vacancy just as you would if you were leaving your house for an extended period:

#### **Clean and Prep Coach for Storage**

- 1. Turn off the propane gas tank
- 2. Turn the furnace thermostat switch OFF.
- **3.** Remove all foods and items that may cause odors from cabinets and refrigerator.
- 4. Clean and defrost the refrigerator. Prop the door open slightly to allow any odors to dissipate. Place an open box of baking soda inside the refrigerator to help absorb odors.
- 5. Fully charge the batteries. Batteries must have at least 80% charge to survive freezing temperatures and long period of non-use. We recommend that you connect a battery charger or plug in the shoreline once a month during long-term storage periods to maintain battery charge and to avoid sulfating. If connecting a charger directly to batteries, turn the Aux Battery Switch off to avoid electrical arcing when attaching and detaching charge clamps.
- NOTE: We do not recommend leaving the shoreline plugged in continuously during storage periods because the batteries can lose electrolytic fluids and become damaged from continuous charging without periodic use. We recommend following regular battery inspection and maintenance especially in cold weather. See "Battery Care" in the Electrical section.
- 6. After charging batteries, turn the Aux Battery Switch off to disconnect the batteries and avoid parasitic\* drain.

\* Parasitic battery drain is the gradual drain by items connected directly to battery power such as clocks, radio memory and the engine computer.

- 7. Have the vehicle chassis completely serviced and lubricated. Be sure radiator antifreeze protection level is sufficient for the lowest anticipated temperatures.
- 8. Wash and wax the coach.
- 9. Inspect all seams and seals around doors, windows, vents, and any other joints. Replace or repair any that are damaged. Sealing

materials and compounds can be purchased from your dealer. Badly damaged weather seals may need to be replaced by your dealer.

- 10. Close all windows and roof vents. Protect all appliance vent openings from contamination by animals or insects (e.g. bird nest, wasp nests, etc.)
- 11. Lubricate all door hinges and locks.
- 12. Clean the interior of the coach. Dirt and stains are more easily removed when fresh.

When storing your vehicle through the winter, or in cold climates, extra preparations need to be made to protect systems that can be damaged by freezing temperatures. See "Winterizing" in Plumbing Section.

# **REMOVAL FROM STORAGE**

- 1. Completely air out the motor home.
- 2. Have the entire LP gas system checked for leaks.
- 3. Check window operation.
- 4. Check cabinet and door hinges. Lubricate with penetrating oil, if necessary.
- 5. Close all faucets and drain valves that are open.
- 6. Add a few gallons of water to the fresh water tank and turn on the water pump to check for leaks especially at fittings.
- 7. Open all faucets in turn to release trapped air and check to be sure faucet washers have not hardened during storage.
- 8. Sanitize the water system as outlined under "Disinfecting the Fresh Water System" in the Plumbing Section, then flush the water lines thoroughly with fresh water.
- 9. Install a new water filter cartridge on the filtered water faucet if equipped. Store the diverter plug for future use it is intended for winterization only.
- 10. Check the toilet for proper operation.
- 11. Add water to the holding tank using the toilet flush pedal and galley sink faucet. Check to be sure dump valves seal tightly.

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- 12. Check around all appliances for obstructions and ensure that all vent openings are clear.
- 13. Start refrigerator and check for proper cooling.
- 14. Clean wall and counter surfaces.
- 15. Replace batteries if necessary and check out electrical system to make sure all lights and electrical components operate.
- 16. Check tires for proper cold inflation pressure. See Vehicle Certification Label.
- 17. After washing accumulated winter grime from the vehicle, it is important to carefully inspect the seams and sealants for separation or cracks that may have appeared around the window frames, vents and any other joints. See "Sealants" at the beginning of this section.

Re-sealing is quite simple and the material is quickly and easily applied. Appropriate compounds are available from your dealer. See "Recommended Sealant Application" page at the end of this section.

Also inspect weather seals around doors, etc., and if necessary, have a dealer replace immediately.

#### Ice Maker Start-Up –If Equipped

- 1. Close all drain valves.
- 2. Turn the water supply on.
- 3. Be sure the ice bin is in place and the automatic shutoff arm is down.
- 4. Let the refrigerator cool down to ice making temperature. Remember, this can take up to 24 hours.
- 5. Let the ice maker cycle and dump the first batch of ice.

#### **COACH MAINTENANCE CHART**

These recommendations apply for normal recreational use. Heavy duty or full-time use may require more frequent maintenance intervals.

Always use specified sections or manufacturer's guide for further information and instructions.	Before Each Use	Weekly	Monthly	Every 3 Months	Every 6 Months	Every Year	As Necessary
Propane Gas System							
Have propane gas system checked for leaks.						•	•
Pressure regulator - inspect and adjust if needed						•	
Check propane tank condition, mounting and fittings						•	
Electrical System							
Check Battery Condition Meter	•						
Check battery fluid level & connections			•				
Check 12V fuses & 120V breakers							•
Check GFCI Receptacles			•				
Generator							
Visually inspect Generator and Compartment	•						
See generator manufacturer's maintenance guide							•
Plumbing System							
Sanitize plumbing system							•
Winterize plumbing system							•
Clean water pump strainer filter						•	•
			<b></b>	-			•
Slide-Out & Leveling System							
Check Hydraulic Oil Level			•				•
Check Hydraulic Lines (routing, leaks, etc.)						•	
Check & inspect room seals (bulb seals)					•		•
				_			1
Exterior							
Clean roof				•			•
Clean sidewalls			•				•
Clean windows							•
Flush underside of vehicle				•			•



# **COACH MAINTENANCE CHART**

These recommendations apply for normal recreational use. Heavy duty or full-time use may require more frequent maintenance intervals.

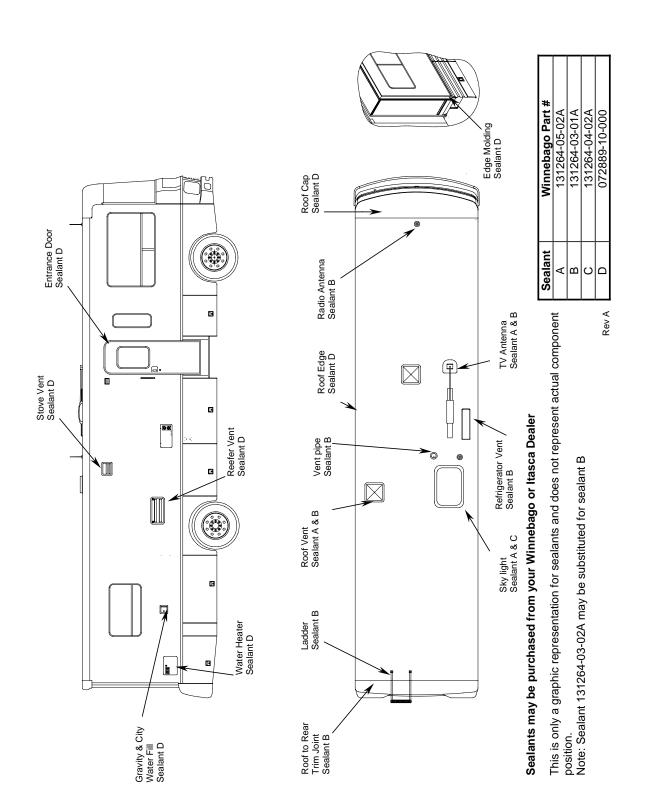
			•	-			
Always use specified sections or manufacturer's guide for further information and instructions.	Before Each Use	Weekly	Monthly	Every 3 Months	Every 6 Months	Every Year	As Necessary
Safety Equipment							
Check operation of the following items							
Headlights, Taillights and Marker Lights	•		•				
Turn Signals	•		•				
Horn	•		•				
Hazard Warning Flashers	•		•				
Windshield Wipers & Washers	•		•				
Fire Extinguisher - check charge indicator	•		•				
Smoke Alarm - test operation *	•		•				
Carbon Monoxide Alarm - test operation *	•		•				
Propane Gas Leak Detector - test operation	•		•				
(*replace battery if needed)							
	1						
Appliances							
Water Heater							
See water heater manufacturer's maintenance guide							•
Inspect & clean exterior vent	•						•
				•			I
Refrigerator							
Refrigerator maintenance guide							•
Inspect and clean exterior vent & drip tray drain tube	•						•
				·			
Furnace							
See furnace manufacturer's maintenance guide							•
Inspect & clean exterior vent	•						•
	,						
Air Conditioner							
See A/C manufacturer's maintenance guide							•
Inspect for exterior damage				•			•
Check/Replace Filter			•				
Derror Terr	,						
Range Top							
See range manufacturer's maintenance guide							<b>▼</b>
Inspect & clean/replace range hood grease filter							•



### **COACH MAINTENANCE CHART**

These recommendations apply for normal recreational use. Heavy duty or full-time use may require more frequent maintenance intervals.

Always use specified sections or manufacturer's guide for further information and instructions.	Before Each Use	Weekly	Monthly	Every 3 Months	Every 6 Months	Every Year	As Necessary
Sealants							
Inspect (see "Sealants" at the beginning of this section for proper inspection technique)					•		•
Replace (see "Recommended Sealant Application" page at the end of this section)							•
Frame & Chassis							
Follow chassis manufacturer's maintenance guide (refer to chassis manual)							•
Inspect Hitch Receiver (if towing)	•						
Tires							
Check & adjust air pressure	•						•
Check tread wear	•						•
Check front end alignment and adjust if needed							•
Miscellaneous							
Lubricate locks, hinges, latches						•	•



## **RECOMMENDED SEALANT APPLICATION**

## Chalet SECTION 12 MISCELLANEOUS

## LOADING THE VEHICLE

- NOTE: Your motor home's load capacity is designated by weight, not by volume, so you cannot necessarily use all available space when loading your motor home.
- Store or secure all loose items inside the motor home before traveling. Possible over- looked items such as canned goods or small appliances on the countertop, cooking pans on the range, or free-standing furniture items can become dangerous projectiles during a sudden stop or evasive maneuver.
- Be aware of GVWR, GAWR and individual load limit on each tire or set of duals.

When loading the vehicle, distribute the cargo load equally so that you do not exceed either the Front or Rear Gross Axle Weight Rating (GAWR) or the Gross Vehicle Weight Rating (GVWR). The Gross Axle Weight Rating (GAWR) means the weight value specified by the chassis manufacturer as the load carrying capacity of a single axle system as measured at the tire-to-ground interfaces. This is the total weight a given axle is capable of carrying. Each axle has its own rating.

Have your vehicle weighed to determine the proper load distribution for your vehicle. Also distribute cargo side-to-side so the weight on each tire or dual set does not exceed one half of the GAWR for either axle.

For example, if the Front GAWR is 6,000 lbs., there should be no more than 3,000 lbs. on each tire. (If the left side weighs 3,100 lbs. and the right side weighs 2,700 lbs., at least 100 lbs. of the load must be shifted from the left side to the right side.) The GVWR is listed on the Vehicle Certification Label. (See sample in Specifications Section).

The GCWR (Gross Combination Weight Rating) means the maximum allowable loaded weight of this motor home and any towed trailer or towed vehicle. NOTE: We recommend that you dump all holding tanks before traveling to avoid carrying unnecessary weight.

# ACAUTION

The weight of the loaded vehicle (including options, attachments, passengers, water, fuel, luggage and all other cargo) must not exceed the GVWR or GAWR of either axle.

## **ROOF LOADING**

The roof is capable of carrying up to 10 pounds per square foot to a maximum of 100 pounds while the vehicle is in motion.

When the vehicle is stationary, a cargo load of 100 pounds plus the weight of a 225 pound person to load the cargo or to conduct inspection and maintenance is permissible.

Weight added to both the roof and the trailer hitch contribute to the gross vehicle weight, which must not exceed the vehicle's GVWR.

#### WEIGHING YOUR LOADED VEHICLE

To check the weight of your fully loaded coach, locate a commercial weighing scale that is capable of weighing large trucks.

NOTE: Sales literature may give approximate or standard weights. Your actual coach weight may differ based on added factory and/or dealer options.

## Loading

Load your vehicle completely as if you were going on a long trip, with everything you would carry, including food, clothing, bedding, lawn chairs, etc., a full fuel tank, full propane tank, and a partial tank of fresh water - but empty holding tanks.

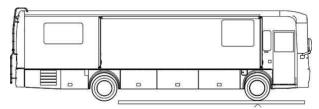
#### **Finding a Scale**

In urban areas, the most common places to find a public access scale are commercial truck stops. In rural areas, most grain storage elevators have scales available. Most scales charge a nominal fee for weighing a vehicle.

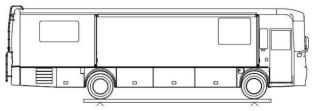
## Weighing

There is typically a scale operator to direct you but the basic routine is to take three separate weights - front axle, whole vehicle, and rear axle.

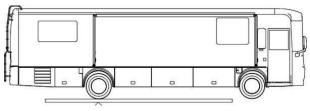
You will first drive only your front wheels onto the scale pad, then drive ahead so that the whole vehicle is on the scale, then finally pull off until just the rear wheels are on the pad.



Front GAWR (Front Axle Only)



GVWR - Whole Vehicle (All Axles)



Rear GAWR (Rear Axle Only)

You will receive a weight 'ticket' that states your current Front Gross Axle Weight, Rear Gross Axle Weight and Gross Vehicle Weight. You can compare these weights to the weight ratings listed on your Vehicle Certification Label to use as a guideline for future loading limits and weight distribution.

The gross weight of the vehicle must not exceed the Gross Vehicle Weight Rating (GVWR) specified on the Vehicle Certification Label. The front and rear axle weight also should not exceed the corresponding Axle Weight Rating specified on the Vehicle Certification Label.

## Corner Weighing (Side-to-Side)

The most accurate method of weighing a motorhome is to weigh each 'corner' of the coach separately (single L/R front wheels or L/R rear dual sets). This method will help you determine how to distribute your cargo to avoid overloading, especially on tires.

To determine the weight distribution on each tire or dual set, you will need to find a scale capable weighing side-to-side, or all four 'corners' of the vehicle, separately.

A truck scale may be used if the ground is level with the scale surface and the scale has clearance to drive one side of the coach onto the scale as shown.

Drive the coach on the level area next to the scale and straddle the scale so that only one side of the coach will be on the scale pad.

# *NOTE: Wind and precipitation can also cause weight inaccuracies.*

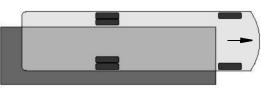
Pull only the right front wheel onto the scale pad as shown.



Weighing Right Front Corner

### Chalet D-Series Class-A

When the front wheel has been weighed, pull the coach straight ahead until only the right rear wheel/dual set is on the scale pad as shown.



Weighing Right Rear Corner

Now, turn the coach around and repeat the process for the other side.

The load on each wheel or dual-wheel set should not exceed one-half of the corresponding GAWR. For example, if the GAWR for the rear axle is 12,000 lbs., then the load on each rear dual set (left rear duals or right rear duals) should not exceed 6,000 lbs.

Tires must be filled to the recommended air pressure for the highest loaded tire set on that axle. For example, on the rear axle, if the left side weighs more than the right, fill the left tires to the pressure required for that weight, then fill the right tires to the same pressure as the left ones.

If your actual weight is considerably less than GAWR, you may be able to lower your tire pressure. See a tire dealer for a load/pressure chart.

NOTE: The Hitch Load from a Towed Vehicle or carrier box must also be counted on the Rear GAWR and subtracted from the rear axle cargo capacity.

Be aware that hitch load can affect handling characteristics. The more weight on the hitch, the lighter the front end will feel at the steering wheel.

#### CAR OR TRAILER TOWING Hitch pulling capacity: 5,000 lbs. max. Tongue weight 350 lbs. or 500 lbs. max.\*

The factory installed towing hitch on this coach is capable of pulling 5,000 lbs. load (max.), however the vertical (tongue) weight may vary according to chassis and model combinations. (\*see label on hitch)

Do not exceed either the GVWR, the rear axle GAWR, or the chassis GCWR by the combined loaded weight of the coach and the towed vehicle. See preceding items "Loading the Vehicle" and "Weighing Your Loaded Vehicle" for explanation of weight ratings.

Because of individual vehicle use and loading habits, we recommend weighing the vehicle while fully loaded to avoid exceeding any of the listed Gross Weight Ratings. See "Vehicle Certification Label" in the Introduction Section for information on gross weight ratings.

Towing will affect vehicle handling, durability and fuel economy. Exceeding any of the listed Gross Weight Ratings will result in unacceptable overall vehicle performance. Maximum safety and satisfaction when towing depends on proper use of correct equipment. Select a drawbar that mates properly with the towing hitch receiver and provides proper alignment to the vehicle tow bar. The tongue of the tow bar must be as close as possible to parallel with the ground when attached to the hitch ball.

Installation of a proper trailer brake system is recommended. Check state regulations on trailer weight and trailer brake requirements to be sure you select the right equipment before towing.

Before descending a steep or long grade when towing a trailer, reduce speed and shift into a lower gear to control vehicle speed. Avoid prolonged or frequent application of brakes which could cause overheating and brake failure.

## WARNING

For safe towing and vehicle handling, maintain proper trailer weight distribution. The total weight of the motor home and the vehicle towed must not exceed the Gross Combined Vehicle Weight rating. See the "Body and Chassis Specification" chart in the Introduction Section.

# **A**CAUTION

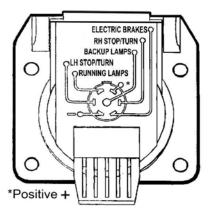
Exceeding any of the recommended gross vehicle weight ratings may result in vehicle damage.

Do not install a frame equalizing type hitch on your vehicle.

### TRAILER WIRING CONNECTOR

Your coach is pre-wired for trailer or car towing lights with a 7-pin socket. The connector plug is supplied in the coach parts package provided to you by your dealer when you took delivery of the vehicle.

The following diagram shows proper connection of trailer or tow vehicle wiring to the coach light system. The 'pigtail' assembly with the (car/trailer end) connector plug should be wired by a qualified technician. Provision for an electric brake controller is located near the steering column.



## **TOWING GUIDELINES**

# Gross Vehicle Weight Rating (GVWR):

This is the <u>maximum</u> allowable weight of the fully loaded vehicle. Included are fuel, water, propane, passengers, cargo, tools, and optional equipment installed by the motor home manufacturer, dealer, or owner. This value is found on the Vehicle Certification Label.

## Gross Axle Weight Rating (GAWR):

This is the total weight a given axle is capable of carrying, measured at the ground. Each axle has its own rating. These values are also found on the Vehicle Certification Label: front, rear, and tag, if applicable.

# Gross Combination Weight Rating (GCWR):

This is the <u>maximum</u> allowable weight of the motor home and loaded trailer, including the items noted in GVWR above. The "trailer" can be an actual trailer, a vehicle towed on a towing dolly, or a vehicle towed by means of a towing bar. GCWR is typically specified based on durability and performance of the tow vehicle drivetrain: engine cooling systems, transmission, drive line, drive axle, and others. The tow vehicle brakes may be rated for operation at GVWR, <u>not</u> <u>GCWR</u>.

NOTE: If the "trailer" weighs 1,000 lbs. or more, state or provincial laws/ regulations may require the "trailer" to

## Chalet D-Series Class-A

be equipped with brakes that are activated when the motor home brakes are applied. **The user is responsible to know and understand the laws of the state or province being traveled.** The Department of Transportation in a given state or province should be able to provide specific information.

#### **Hitch Ratings:**

SAE Standard J684 defines:

- Class 1 trailers as "GVWR not to exceed 2,000 lbs."
- Class 2 trailers as "GVWR over 2,000 lbs. and not to exceed 3,500 lbs. GVWR"
- Class 3 trailers as "GVWR over 3,500 lbs. and not to exceed 5,000 lbs. GVWR"
- Class 4 trailers as "GVWR over 5,000 lbs. and not to exceed 10,000 lbs. GVWR"

Hitches are to be permanently marked with "Maximum trailer GVWR to be drawn" and "Maximum vertical tongue weight to be imposed..." The SAE standard does not specify a vertical load rating, as such. Traditionally, hitches are labeled 3,500/350 as Class 2 and 5,000/500 as Class 3.

The vertical tongue load value of 10 percent of drawn rating apparently comes from the collective experience that 10 percent is the minimum value that provides stable towing of a trailer. Ford's towing guide suggests 10 to 15 percent for trailers over 2,000 lbs. (Hitch ratings are independent of towing vehicle ratings.)

NOTE: All Winnebago Industries models equipped with a Class 4 hitch have a label stating vertical tongue load is limited to 500 lbs.

The user must verify that the hitch equipment being used is adequate for the application.

## ELECTRIC ENTRANCE STEP –If Equipped

The power switch for the electric entrance step is located to the left of the main entry door as you enter the coach.

# \land WARNING

Do not use step unless fully extended. Do Not Stand on step when vehicle ignition switch is turned to either the "On" or "Start" position.

The step will automatically retract, which may cause personal injury.

#### Automatic Mode - Entry Step Switch ON (Step Operates with Door)

#### With the Step switch in the ON position the step is in Automatic Mode. This means it will extend and retract automatically whenever the screen door is opened or closed.

#### Stationary Extended Mode - Step Switch OFF (Step Remains Extended)

With the Step power switch in the OFF position the step will extend when the screen door is opened and will stay extended whether the door is opened or closed.

This position is normally used to keep the step extended when parked at a campsite or whenever people will be entering and exiting the vehicle frequently.

## **Automatic Retraction Feature**

The step is equipped with an automatic retraction feature that stores the step automatically when the Ignition Switch key is turned to the On or Start positions and the entrance door is closed.

The step will retract regardless if the Step power switch is ON or OFF.

This feature is intended to prevent injury or damage by an extended step while the vehicle is moving.

## **Further Information**

For additional information on the step, see the manufacturer's operators manual included in your InfoCase.

#### WINDOWS

#### **Crank-Out Windows**

Turn the crank-out knob clockwise to open window; counterclockwise to close. Do not use excessive force on the knob to open or lock into closed position. This could cause permanent damage to the crank mechanism.

When closing the window, crank the window in snugly, then back off 1/4 turn to help avoid glass warping which can result in wind noise.



If the window will not open after three or more full turns of the knob, the glass may be stuck to the sealing gasket. Go to the outside of the coach and gently free the glass with your fingers. A periodic light dusting of talcum powder on the gasket should prevent this from recurring.

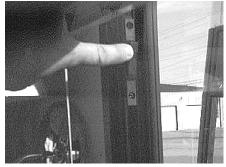
#### **Horizontal Slider Windows**

Swing the latch handle straight out from the window. Grasp the sliding window edge frame and slide the window to the side. Be sure the latch is open before trying to slide the window closed.



#### **Vertical Slider Windows**

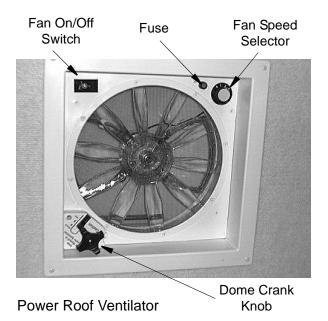
Vertical windows have spring-loaded catches on both sides of the window that pop out to hold the window in its fully raised position. Press the catches outward toward the frames while lowering the window.



Vertical Window Catches

#### POWER ROOF VENTILATOR Lounge, Galley or Bath Area –If Equipped

The vent dome is raised and lowered using the Dome Crank knob on the fan.



### **To Operate Ceiling Ventilator**

- 1. Turn the Dome Crank Knob to raise the dome about 3" or more to allow the turbine fan to operate. (A built-in safety switch will not allow fan motor to run unless dome is partially open.)
- 2. Turn the Fan Speed knob to the desired level (0-Off 1-Low 2-Med 3-Hi)
- 3. Open a window or door to provide airflow. Direction of airflow is determined by which window or door is opened.
- NOTE: For best results, close all other roof vents, windows and doors, then open one (1) window the farthest distance from the roof ventilator.The fan speed selector on the fan allows you to adjust the amount of circulation you need at any time.
- 4. The Fan On/Off switch lets you turn the fan off if you want the vent dome raised without the fan running.
- 5. If the Fan On/Off switch is in the ON position, the turbine fan will start automatically as the vent dome is raised and stop as the vent dome is lowered and closed.

#### **Further Information**

See the power vent manufacturer's operating instructions supplied in your InfoCase for further instructions, care and cleaning information.

#### STORAGE COMPARTMENT DOORS

The high-density gaskets used on the exterior storage compartments are designed to provide a more positive seal against dust and weather. Sometimes this seal firmness can inhibit complete latching of the compartment doors if they are simply 'dropped shut' or closing force is applied only to the center of the door.

To ensure that exterior storage compartment doors have latched properly, press firmly on the bottom edges of the doors with the palms of your hands. If the door is ajar you will hear and feel a loud 'click' when the latches engage properly.

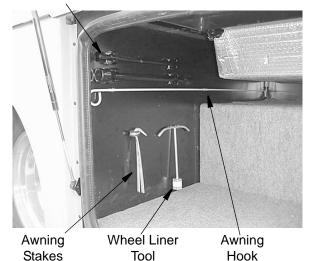
#### TOOL AND LADDER STORAGE

The roof ladder extension and various supplied tools are stored in clips on the walls of one or two of the exterior storage compartments. The following photo(s) show typical tools and arrangements.

NOTE:Actual locations of items and features may vary depending on equipment and storage compartment configuration of your model.

Your model may not be equipped with all items shown and some items may not be available on your model.

Tire Tools (Ford chassis only)



#### COMPARTMENT LIGHTS SWITCH

The compartment lights switch powers the lights in the compartments. When this switch is 'ON' the compartment door lights will come on automatically when the door is opened, and go off when the door is shut. We recommend turning this switch off when the coach is not in use to avoid battery drain if a light is left on by accident.

#### SECTION 12 MISCELLANEOUS





Compartment Lights Switch

#### **ROOF LADDER**

The ladder provided on your motor home is for limited access to the roof of your coach. If you are working on your roof, create an environment that provides safety as a first priority.

#### **Before Using the Ladder**

- **Inspect the ladder** to make sure it is not damaged. Never use a damaged ladder.
- Keep the rungs of the ladder clean and dry while in use. Never use the ladder when it is raining, snowing or icy. The rungs can become slippery. Do not step onto the rungs if the rungs are wet, or if your shoes are wet or carry mud or debris that could result in a loss of footing.
- Never ignore warning labels or weight limits defined on your ladder. The following warning label is located on or near the ladder:

## 🔨 WARNING

Do not exceed 225 lbs. maximum weight capacity. Misuse of ladder could result in death or serious injury. See Operators Manual before using ladder.

- Maximum Capacity: 225 lbs.
- **Do not overload.** Ladder is intended for one person.
- Make sure you are physically capable to safely use the ladder. Strength, flexibility and stability are required.

- Be aware that the vehicle may sway as you climb the ladder. Do not use the ladder in high winds.
- As you climb the ladder, grasp the side rails firmly and always use both hands. Keep your body centered between the side rails. Do not over-reach.
- Always store the ladder extension when not in use.
- Never allow children on the ladder.
- **Do not transport items** anchored to the ladder. You could damage the ladder.

## To Use the Ladder Extension:

- Unfold the ladder support and pin into place as indicated in the photo.
- Hold the ladder extension horizontally with the bumper pad pointing downward.
- Slide the open ends of the C-shaped retainer brackets over the lowest ladder rung as shown in the photo.
- Lower the extension into place and push downward while adjusting it slightly to 'seat' the retainers onto the ladder rung.
- Make sure retainer brackets are properly engaged onto ladder rung before using ladder.
- Reverse steps to remove and store.



### EFFECTS OF PROLONGED OCCUPANCY

Your motor home was designed primarily for recreational use and short term occupancy. If you expect to occupy your coach for an extended period, be prepared to deal with condensation and humid conditions that may be encountered.

#### **Humidity and Condensation**

Moisture condensing on the inside of windows is a visible indication that there is too much humidity inside the coach. Excessive moisture can cause water stains or mildew which can damage interior items such as upholstery and cabinets.

When you recognize the signs of excessive moisture and condensation in your coach, you should take immediate action to minimize their effects.

You can help reduce excessive moisture inside the motor home by taking the following steps:

#### Ventilate with outside air:

Partially open one or more windows and a roof vent to circulate outside air through the coach. In cold weather, this ventilation may increase use of the furnace, but it will greatly reduce the condensation inside the coach.

## Minimize moisture released inside the coach:

Run the range hood fan while cooking, and open a bath vent while bathing or showering to carry water vapor out of the coach. Avoid making steam from boiling water excessively or letting hot water run. Avoid bringing extra moisture into the coach by way of soaked clothing or snow on shoes. Do not hang-dry wet overcoats or clothing inside the coach.

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