

Lance truck camper owner's manual

TABLE OF CONTENTS		EFFECTS OF PROLONGED OCCUPANCY VENTILATION AND MOISTURE CONTROL DRIPPING CEILING VENTS	29 29 30
IMITED WARRANTY	5	INTERIOR ODORS	30
COVERAGE PROVIDED	5		
OWNER'S OBLIGATION	5	FIRE AND SAFETY	31
EXCLUSIONS	5	FIRE EXTINGUISHER	31
		SMOKE DETECTOR	31
A FEW IMPORTANT WORDS ON SAFETY	7	PROPANE LEAK DETECTOR	32
ATEM IMI OKIAKI WOKES SKI SKI SKI		CARBON MONOXIDE DETECTOR	32
WELCOME	9		
AACEGOMIC		EQUIPMENT	35
CUSTOMER RELATIONS INFORMATION	10	ROOF	35
GOSTONIER RELATIONS IN STREET		COMPARTMENT DOORS	35
INFORMATION ABOUT THIS MANUAL	11	VENTS	35
PRODUCT CHANGES	11	ROOF VENTS	36
OWNER'S INFORMATION PACKAGE	11	FANTASTIC ROOF VENT	36
OWNERS HAI CHAMALION FROM TO		CABOVER SKYLIGHT	36
DEALER RESPONSIBILITY	12	EXTERIOR LIGHTING	38
DEALER RESI GROIDIEIT		ROOF RAILS AND LADDER	38
PLANNING AND PREPARATION	12	ROOF RACK	38
PLANNING AND FILE ARATION		ENTRY DOOR	38
INSPECTION AND MAINTENANCE	12	WINDOWS	39
INSPECTION AND MAINTENANCE		REMOVABLE THERMAL WINDOWS	39
REPORTING SAFETY DEFECTS	13	EMERGENCY EXIT WINDOW	39
REPORTING SAFETT DEFECTS		SAF-T-VUE® WINDOW	39
CAMPER AND TRUCK	15	AWNINGS	40
CAMPER AND TRUCK MATCHING TRUCK AND CAMPER	15	SLIDEOUT COVER	40
	16	EXTERIOR WASH STATION	40
TIRES	17	CAMPER BUMPER/STEP	40
ELECTRICAL CONNECTION TO TRUCK	11	BACKUP CAMERA	41
THE WORKSHEET	18	INTERIOR STORAGE	41
TRUCK/CAMPER LOAD WORKSHEET	10	BATHROOM	41
ALIDADE COLUDAÇAE	21	TOILET	41
SUPPORT EQUIPMENT	21	CABOVER AREA	41
AIR BAGS	21	GALLEY	41
HEAVY DUTY SHOCKS	21	DINETTE CUSHIONS	41
TIEDOWNS AND TURNBUCKLES	22	DINETTE CONVERSION	41
CABOVER TRUCK STRUTS	22	SOFA CONVERSION	42
HITCHING AND TOWING SYSTEMS	22	DAY/NIGHT SHADES	42
CARDING AND UNICADING	23	MINI-BLINDS	42
LOADING AND UNLOADING	23	FOLDING DIVIDER DOOR	42
MANUAL ACME JACKS	23	FOLD-DOWN BUNK & CHILD RESTRAINT	42
MANUAL SCREW JACKS	23	CARGO NET	42
ELECTRIC CAMPER JACKS	25		
LOADING/REMOVING CAMPER	25	ELECTRICAL SYSTEMS	43
LOADING CAMPER ON TO TRUCK	25	12-VOLT DC SYSTEM	43
REMOVING CAMPER FROM TRUCK	26	BATTERY AND COMPARTMENT	43
LEVELING/STABILIZING CAMPER	20	BATTERY TERMINOLOGY	43
ON THE DOAD	27	BATTERY INFORMATION	43
ON THE ROAD	27	BATTERY STORAGE PRECAUTIONS	44
LOADING	27	BATTERY CHARGING	44
STORAGE	27	BATTERY SEPARATOR	44
PREPARING FOR TRAVEL	27	BATTERY DISCONNECT SWITCH	45
PRE-TRIP CHECKS	27 27	SYSTEMS MONITOR PANEL	45
POST-TRIP CLEAN-UP	27 27	EXTERIOR LIGHT FUSE BOX	46
SAFE DRIVING RULES	28	CAMPER FUSE PANEL	46
RIDING IN CAMPER WHILE TRAVELING	28 28	FUSES	46
CAMPGROUND REGULATIONS	28 28	INTERIOR LIGHTING	46
CARBON MONOXIDE GAS	20	HATELMOIT FIGURES	

SOLAR PANEL PRE-WIRE	46	SHOWER	63
SOLAR PANEL	47	EXTERIOR WASH STATION	63
MOMENTARY LIGHT	47		
DOCKING LIGHTS	47	WASTE SYSTEM	65
TELEPHONE JACK	47	INSULATED AND HEATED WASTE HOLDING	
PARK CABLE INLET	47	TANK COVER	65
TV/SATELLITE ANTENNA PRE-WIRE	47	FRESH WATER FLUSH TOILET	65
ROOF MOUNTED ANTENNA AND TV OUTLET	48	BLACK WATER HOLDING TANK	65
SATELLITE DISH	48	DUMPING THE HOLDING TANKS	65
STEREO/SPEAKER PRE-WIRE	48	HOLDING TANK CARE/MAINTENANCE	66
DVD PLAYER/FLAT SCREEN TV	49	BLACK TANK FLUSH	66
120-VOLT AC SYSTEM	49		
120-VOLT POWER CORD	49	SLIDE-OUT ROOM SYSTEM	67
AUTO TRANSFER RELAY	49	SYSTEM OPERATION	67
POWER DISTRIBUTION CENTER	49	NORMAL OPERATION	67
POWER CONVERTER	50	MANUAL OVERRIDE OPERATION	67
GROUND FAULT CIRCUIT INTERRUPTER	50	ELECTRICAL SYSTEM MAINTENANCE	68
GENERATOR READY	50	MECHANICAL MAINTENANCE	68
POWER GENERATOR	51	SYSTEM TROUBLESHOOTING	68
GENERATOR OPERATING SAFETY	01	ELECTRICAL TROUBLESHOOTING	68
PRECAUTIONS AND WARNINGS	51		
GENERATOR MAINTENANCE AND SERVICE	52	GENERAL MAINTENANCE	69
GENERATOR/ELECTRICAL COMPONENT	01_	EXTERIOR MAINTENANCE	69
INCOMPATIBILITY	52	EXTERIOR GRAPHICS	69
LOADING THE GENERATOR	52	DAMAGE CHECKS	70
TYPICAL APPLIANCE LOADS	52	SEALANT RENEWAL	70
POWER VS. ALTITUDE	52	DOORS AND WINDOWS	70
POWER VS. ALITIODE	72	JACK BRACKETS	70
PROPANE GAS SYSTEM	53	CAMPER JACKS	70
BTU'S	53	AIR CONDITIONER	70
SAFETY PRECAUTIONS	53	TURNBUCKLES	71
FILLING PROPANE TANKS	54	OVERHEAD VENTS	71
USING PROPANE SYSTEM	54	SKYLIGHT	71
SINGLE PROPANE TANK	54	EXTERIOR LIGHTS	71
DUAL PROPANE TANKS	54	WIRING	71
PROPANE AT LOW TEMPERATURE	55	INTERIOR MAINTENANCE	71
PROPANE LEAK DETECTOR	55	INTERIOR ODOR	71
EXTERIOR PROPANE CONNECTION	55	UPHOLSTERY AND DRAPES	71
LATERIOR TROPARE CONTRESTION		WALL AND CEILING PANELS	71
APPLIANCES	57	FLOORS AND CARPETS	71
LIGHTING PROPANE APPLIANCES	57	WOOD PRODUCT CARE	72
REFRIGERATOR	57	LAMINATE TOP CARE	72
RANGE-OVEN	57	POWER RANGE HOOD	72
CONVECTION OR MICROWAVE OVEN	57	REFRIGERATOR	72
AUTOMATIC IGNITION WATER HEATER	58	DRAINS	72
FORCED AIR FURNACE	58	SHOWER CARE	72
ROOF MOUNTED AIR CONDITIONER	58	SINK CARE	72
COMBINATION FURNACE/AIR CONDITIONER	00	MAINTENANCE CHART 1	73
THERMOSTAT	59	MAINTENANCE CHART 2	74
THE WOOD IN T			_
FRESH WATER SYSTEM	61	WINTERIZATION	75
WATER PUMP	61	OPERATING IN FREEZING CONDITIONS	75
WATER TANK FILL	61	STORAGE	75
CITY WATER CONNECTION	62	SHORT-TERM STORAGE	75
WATER SYSTEM DRAIN	62	LONG-TERM STORAGE	75
SANITIZING FRESH WATER SYSTEM	62	STORAGE BELOW FREEZING	75 76
WATER FILTER	62	WINTERIZING METHOD	76

VATER HEATER BYPASS	76
REACTIVATION CAMPER AFTER STORAGE	
OUTSIDE AREA	76
2-VOLT SYSTEM	77
RESH WATER SYSTEM	77
PROPANE SYSTEM	77
GENERAL	77
120-VOLT SYSTEM	77
MAINTENANCE	77
CAMPER LOADING AND CHECKOUT	77
TYPICAL BULBS AND FUSES	77
EXTERIOR SEALANT CHART	79
SCHEMATICS	
TYPICAL FRESH WATER PLUMBING	80
TYPICAL DRAIN PLUMBING	81
TYPICAL PROPANE PLUMBING	82
RUNNING LIGHT WIRING	83
DOCKING LIGHT WIRING	84
ELECTRIC JACK WIRING	85
MONITOR PANEL WIRING	86
MONITOR PALEN WIRING LITE	87
SLIDE-OUT WIRING	88
12V SYSTEM - BASEMENT	89
12V SYSTEM - LITE	90
12V INTERIOR CIRCUITS WIRING	91
12V INTERIOR CIRCUITS WIRING - BASEMENT	92
SPEAKER WIRING	93
SOLAR PANEL WIRING	94
THERMOSTAT WIRING	95
120V SYSTEM	96
120V CIRCUITS WIRING	97
TV ANTENNA READY WIRING - LANCE	98
TV ANTENNA READY WIRING - LITE	99
TV ANTENNA READY WIRING - BASEMENT	100
TV ANTENNA WIRING - BASEMENT	101
TV ANTENNA WIRING - LITE	102
TV ANTENNA WIRING - LANCE	103
SATELLITE DISH ANTENNA WIRING - LANCE	104
SATELLITE DISH ANTENNA WIRING - LITES	105
SATELLITE DISH ANTENNA WIRING - BASEMENT	106
DVD/TV WIRING	107
SUPPLIERS SERVICE PHONE	
AND INTERNET LISTING	108

This page intentionally blank.

LIMITED WARRANTY

FOR TRUCK CAMPERS MANUFACTURED BY LANCE CAMPER MANUFACTURING CORPORATION (LANCE CAMPERS) SOLD IN THE UNITED STATES AND CANADA

Lance warrants to the original purchaser ("Owner") of this truck camper ("Camper") to be free of defects in materials and workmanship and for structural integrity, under normal use, with reasonable care and maintenance, for two (2) years from the date of purchase (the "Warranty Period"), subject to the exclusions given below.

COVERAGE PROVIDED

Within the Warranty Period, Lance is obligated to repair or replace any part covered by this warranty proven defective. In the event of such an occurrence, the Owner should contact the selling dealer for a service appointment. If it is not possible to return to the selling dealer, call the Lance factory service department, and they will provide you with the location of the nearest authorized dealer or repair facility. The cost of transporting the Camper to the dealer or service center shall be incurred and paid for by the Owner.

This is the only warranty given with the purchase of the Camper other than express or implied warranties given by the component manufacturers. Any warranties implied by law are limited to the Warranty Period. Any other warranty, express or implied, not provided for in this Limited Warranty is waived by the Owner.

OWNER'S OBLIGATION

The purchaser must notify Lance Campers or a Lance authorized dealer of any defect promptly upon discovery. Warranty repairs by a non-Lance dealer or service center must be approved by the Lance Factory Service Department prior to any work being started.

EXCLUSIONS

The scope of this warranty is expressly limited to only items actually constructed by Lance. Lance therefore makes no warranty with respect to component parts constructed or assembled by other manufacturers, including, but not limited to, the Liquid Propane Gas appliances, electrical appliances, heaters, refrigerators, plumbing fixtures, light fixtures, lights, entrance door and windows. Such component parts may be warranted by their respective manufacturers, and copies of such warranties are included with the Camper.

This warranty does not cover damage caused by or related to (1) normal wear and tear, (2) accidents, abuse, misuse or negligence, (3) failure to comply with instructions contained in the Owner's Manual, (4) any alteration or modification of the Camper, or (5) environmental conditions, including, but not limited to, road salt, hail, or windstorm. Nor does this warranty apply to parts made out of cloth, leather, wood, paint, or chrome, which have been affected by airborne fallout, including, but not limited to, chemicals and tree sap.

No payment or other compensation will be made for incidental expenses, including, but not limited to, towing, telephone, transportation, lodging, travel, gasoline, loss of pay or indirect or consequential damage including, but not limited to, loss of use of the Camper, inconvenience, damage or injury to person or property, or loss of revenue, which might be paid, incurred or sustained by reason of manufacturer's defect covered by this warranty. Lance does not cover equipment or accessories installed at any dealership or other place of business, or by any other party. Such installation of equipment or accessories by any other party will not be covered by the terms of this warranty.

As the manufacturer of the Camper that you purchased, Lance does not know the purpose you have in mind for your truck and camper, nor does Lance know the Gross Vehicle Weight Rating ("GVWR") of your truck. Therefore, Lance makes no warranties or representations, express or implied, as to the performance of your truck with the Camper or whether the match-up of your truck and Camper exceeds the GVWR as specified by your truck's manufacturer. Specifically, there is no express or implied warranty of merchantability or of fitness for the particular match of your truck to any particular camper.

This Limited Warranty is intended to comply with the requirements of both State and Federal laws. Any part of this Limited Warranty in conflict with any law shall be ineffective to the extent of any such conflict. This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state.

IDENTIFICATION INFORMATION

For identification purposes it is recommended that you write the camper serial number inside your camper. Pick a spot behind a drawer or inside a cabinet. Protect yourself from possible theft and be able to identify your property. **You should keep a copy of this information at home.** If the unit is ever stolen, the police can use the appliance serial number to identify the unit. It is also handy to have when service is needed.

PLEASE TAKE A FEW MINUTES TO COMPLETE THE INFORMATION. IT WILL BE A HANDY REFERENCE FOR YOU.		
Your Name	Camper Model	
Serial Number	Purchase Date	
Dealer Name	Entry Door Key Number	
Address		
Insurance Policy Number		
Agent's Phone Number		
Air Conditioner Manufacturer	Range/Oven	
Model	Model	
Serial Number	Serial Number	
Furnace Manufacturer Hydroflame	Refrigerator Manufacturer Norcold	
Model	Model	
Serial Number	Serial Number	
Generator Manufacturer Onan	Stereo/DVD Manufacturer	
Model 2.5 KVD-2089B	Model	
Serial Number	Serial Number	
Convection or Microwave Oven Manufacturer	Water Heater Manufacturer Atwood	
Model	Model G6A	
Serial Number	Serial Number	

A FEW IMPORTANT **WORDS ON SAFETY**

Your safety, and the safety of others, is very important. Operating your truck and camper is an important responsibility.

6617235452

As you read this manual, statements preceded by the following words are of special significance:



Indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in damage to the component, camper or your truck.

This information is intended to help you reduce the risk of personal injury and prevent possible damage to others, your truck, camper and its equipment, or the environment.

To help you make informed decisions about safety, we have provided operating procedures and other information on labels in your camper and in this manual. There are also warnings in the appliance manuals in the Owner's Information Package. This information alerts you to potential hazards that could hurt you or others.

Of course, it is not practical or possible to warn you about all the hazards associated with operating or maintaining your camper. You must use your own good judgment.

This manual is filled with important safety information please read it carefully. If you have any questions regarding operation, maintenance, or service, please contact your dealer immediately so he can assist you.

Lance Camper Manufacturing is required to furnish the following consumer information as provided by the National Fire Protection Association and the American National Standards Institute. The information and warnings found here might also be found in other chapters of this Owner's Manual. Please see chapters titled "PROPANE SYSTEM" and "APPLIANCES" for other safety and operating information.

A WARNING

Propane containers must not be placed or stored inside the vehicle. Propane containers are equipped with safety devices, which relieve excessive pressure by discharging gas to the atmosphere.

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

▲ WARNING

IT IS NOT SAFE TO USE

COOKING APPLIANCES FOR COMFORT HEATING. Cooking Appliances need fresh air for safe operation.

BEFORE OPERATION:

Open overhead vent or turn on exhaust fan. 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 cooking appliances will avoid dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.

AWARNING

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.

AWARNING

Do not bring or store propane containers, gasoline, or other flammable liquids inside the camper. Fire or explosion may be the result.

The following label has been placed near the front on both exterior right and left walls of your camper:

A DANGER

ALL PILOT LIGHTS, APPLIANCES AND THEIR **IGNITORS (SEE OPERATING INSTRUCTIONS)** SHALL BE TURNED OFF BEFORE REFUELING OF MOTOR FUEL TANKS AND/OR PROPANE CONTAINERS. FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.

A warning label has been located near the propane container. This label reads:

WARNING

DO NOT FILL PROPANE CONTAINERS) TO MORE THAN 80 PERCENT OF CAPACITY. FAILURE TO COMPLY COULD RESULT IN A FIRE OR PERSONAL INJURY.

ACAUTION

THIS PROPANE PIPING SYSTEM IS DESIGNED FOR USE WITH PROPANE ONLY. DO NOT CONNECT NATURAL GAS TO THIS SYSTEM.

Securely cap inlet when not connected for use. After turning on gas, except after normal cylinder replacement, test propane piping and connections to appliance for leakage with soapy water or bubble solution. Do not use products that contain ammonia or chlorine.

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

Overfilled Propane tanks must be bled. This is different than purging the tanks. When the tanks are new, they must be purged of the oxygen in the tanks used during the tank manufacturer's testing procedure prior to being filled with propane. Overfilled tanks will emit liquid into the propane system, which can cause problems/plugging with the regulators used on the tanks, range and generator. A bathroom scale can be used to weigh the tanks prior to re-installing them in the camper. A 5-gallon tank should not weigh more than 35 lbs. when filled. A 7-gallon tank should not weigh more than 50 lbs. when filled. Instructions for bleeding the tanks are located on a label on the tank.

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

A DANGER

IF YOU SMELL PROPANE:

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

FAILURE TO COMPLY COULD RESULT IN EXPLOSION RESULTING IN DEATH OR SERIOUS INJURY.

Propane regulators must always be installed with the regulator vent facing downward. Make sure the regulator vent faces downward to minimize vent blockage, which could result in excessive gas pressure causing fire or explosion.

CARBON MONOXIDE HAZARD

Your truck and your camper's generator exhaust contain carbon monoxide gas. You should have no problem with carbon monoxide entering into the camper if you maintain your truck and generator properly. Have the exhaust system inspected for leaks whenever:

- · The truck and camper is serviced.
- You notice a change in the sound of the exhaust.
- The truck or camper was in an accident that may have damaged the underside.

AWARNING

Carbon monoxide is toxic.

Breathing it can cause unconsciousness and even kill you.

Avoid any enclosed areas or activities that expose you to carbon monoxide.

High levels of carbon monoxide can collect rapidly in enclosed areas, such as a garage or family room.



6617235452

WELCOME

Congratulations and welcome to the recreational vehicle lifestyle and the ever-growing family of Lance Truck Camper owners. We sincerely thank you for choosing Lance, "American's Favorite Truck Camper". Your selection of a Lance was a wise investment. Lance Camper is confident that it will give you years of camping pleasure.

At Lance Camper, we work hard to provide our customers with safe and dependable truck campers. We constantly strive to produce a quality product to meet your needs. Our customers are what are most important. If you are satisfied, then we know we have achieved what we set out to do. That is to be the best truck camper manufacturer in the industry.

Your camper has been designed to conform with, or exceed, the American National Standards Institute (ANSI) A119.2, National Fire Protection Association (NFPA) 501C, Canadian Standards Association (CSA) Z-240 (for Canadian built units), National Electric Code (NEC), and applicable motor vehicle standards. These standards establish the requirements for electrical, plumbing, fuel systems and equipment, fire and life safety provisions and other requirements for quality and safety. Lance Camper is a member of the Recreational Vehicle Industry Association (RVIA) and the Canadian Recreational Vehicle Industry Association (CRVIA) which oversees that our products are in compliance with the above agencies and organizations.

One of the best ways to enhance the enjoyment of your new Lance camper is to read this manual along with the information provided in the Owner's Information Package. This information will help you learn how to operate all the features of your new camper.

This Owner's Manual covers all Lance models. You may find descriptions of equipment and features that are not on your particular model. Afterwards, keep this Owner's Manual along with the Owner's Information Package in your camper so you can refer to it at any time.



The information, specifications and photography included in this publication were as accurate as possible at the time of publication. For the most current product information and changes, please visit our website at www.lancecamper.com or contact your local Lance dealer. Lance Camper Manufacturing Corporation reserves the right, however, to discontinue or change specifications at any time without notice and without incurring any obligation whatsoever. All weights, fuel, liquid capacities, and dimensions are approximate.

Before calling your Lance dealer or the Lance Camper Customer Service Department, we suggest that you look for the answer to your problem in the Owner's Manual, Owner's Video or the Component Instruction Manuals supplied in the Owner's Information Package.

This Owner's Manual, along with the Owners Information Package should be considered a permanent part of the camper, and should remain with the camper when it is sold.

Several warranties protect your new Lance camper. Read each of the warranties thoroughly so you understand the coverages and are aware of your rights and responsibilities. Lance provides a limited warranty as defined at the front of this manual. Please read that warranty carefully. If you have any questions about the warranty or what it does or does not cover, please contact your Lance dealer. At the time of sale, your dealer will fill out and mail your Lance Warranty Registration Card to the factory. Within three weeks you should receive, by mail, your Owner Registration Card. Contact your dealer if it does not arrive. The card will have your name, serial number and model, date of purchase and dealer name. If your camper ever needs warranty service, present this card to your dealer.

Your appliances and various other components in your camper are warranted by their respective manufacturer and their warranties are included in the Owner's Information Package. Be sure to fill out the warranty registration cards for these items and mail them as soon as possible after taking delivery of your camper.

CUSTOMER RELATIONS INFORMATION

It is best to return your camper to the selling dealer for warranty service. If this is not possible, you can find the nearest dealer on our web site,

www.lancecamper.com, under the dealer locator heading, or by contacting the Lance Customer Service Department at 661 949-3322, who can direct you to a dealer in your area.

Service and maintenance on your camper is easily accomplished by establishing a mutually agreeable partnership between you and your Lance dealership. Take the time to get to know the people who will play an important role in helping you keep your camper in prime working condition. Visit the dealer's service center to meet the service manager, technicians, service writers, and those charged with ordering the parts. Ask questions.

Following scheduled maintenance recommendations will save you money in the long run. Carefully read all operation manuals to obtain complete information on prescribed service intervals. Don't forget about your truck. It too needs regular service.

If you prefer to perform general maintenance items on your own, your Lance dealer service department can be a big help when it comes to making sure you obtain the proper replacement parts. All replacement parts must be ordered from your dealership. Lance Camper Mfg. Corp. does not sell retail to the public.

Service and maintenance items may fall outside the scope of your capability. In these instances you may decide to seek the assistance of a qualified RV service center to perform these tasks. Contact your Lance dealership's service center in advance for a scheduled appointment time. Advise the service manager, in writing, the specific items needing repair to give the service center an idea of what parts will be required, and how long the work can be expected to take. Keep in mind that seasonal maintenance needs are a popular time of year at most service centers. Call early to schedule annual tune-ups.

Lance Camper dealership personnel are trained professionals. They should be able to answer all your questions. If you encounter a problem that your dealership does not solve to your satisfaction, please discuss it with the dealership's management. The Service Manager or General Manager can help. Almost all problems are solved in this way.

If you are dissatisfied with the decision made by the dealership's management, contact the Lance Camper Customer Service Center at:

Service Manager Lance Camper Manufacturing Corporation 43120 Venture Street Lancaster, California 93535-4510 USA 661 949-3322

E-mail inquiries to service@lancecamper.com.

When you call or write, please give us this information:

Vehicle Identification Number
Your name, address, and telephone number
Date of purchase
Name and address of the dealer where your camper
was purchased, or who services your camper

This information will be on your Owner Registration Card. The serial number is also located on the identification tag located next to the entry door.

<u>lance</u>		Owner Registration
Serial No.	Model	Purchase Date
123456	1130	2/1/2000
	Jack & Evelyr	n Smith
Any	XYZ Camper	

INFORMATION ABOUT THIS MANUAL

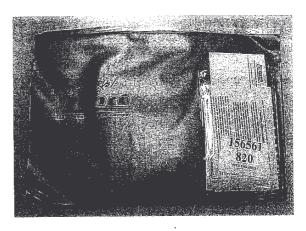
This Owner's Manual is of a general nature only and does not cover every aspect of all models manufactured by the Lance Camper Mfg. Corp. Each owner should read this manual thoroughly and heed the warnings given herein, as well as those warnings given in the component instruction manuals contained in the Owner's Information Package.

PRODUCT CHANGES

Lance Camper manufactures multiple product lines of truck campers. Some equipment and features shown in this manual may be optional or not available on some models. Photographs or illustrations in this manual are representative of function and may not be specific in their depiction of actual equipment, fabrics, interior or exterior decor or design options as installed on or in your camper. For the most current product information and changes please visit our website at www.lancecamper.com or contact your local Lance dealer. Subsequent modifications may be evident in the actual product. Specifications are subject to change without notice. All weights, fuel, liquid capacities and dimensions are approximate.

OWNER'S INFORMATION PACKAGE

The owner information package contains valuable documents explaining details of operation for major appliances, systems and equipment built into your camper. Included in this package is warranty information on various appliances and components in your camper. Warranty registration cards for these items should be filled out and mailed as soon as possible after you take delivery of your camper. Since this Owner's Manual does not cover every possible detail of equipment and options installed on or in your camper, these booklets and instructional material in the package will help you operate, maintain and trouble-shoot those items. If you are missing any of the component material, contact your Lance dealer and request the desired or missing information. If you ever decide to sell or trade your camper, be sure the new owner gets all the material in this package.



The Owner's Information Package includes the following items based on the features and options on your particular camper:

Owner's Manual Camper Instructional DVD Consumer Information - Truck Camper Loading Refrigerator Manual Range/Oven Manual Bi-fold Range Cover Manual Convection or Microwave Manual **Furnace Manual** Thermostat Manual Water Heater Manual Air Conditioner Manual Generator Manual Electric Jack and Remote Manuals Water Pump Manual Converter Manual Smoke, Propane and Carbon Monoxide **Detector Manuals** Skylight Manual GFIC Manual Black Tank Flush Manual Winterizing Manual Fantastic Vent Manual Awning Manual Solar Panel and Regulator Manuals TV Antenna or Sat Dish Manual Backup Camera Manual Stereo or DVD Manual LCD TV Manual Yakama Rack Manual

DEALER RESPONSIBILITY

Your camper has been thoroughly inspected at the factory before shipment. However, your dealer is responsible for performing a complete pre-delivery inspection of all your camper's components. This should assure you that all components are in proper working order and free of defects prior to you taking delivery.

During the delivery process, the dealer should have taken you through the inside, as well as around the exterior of the camper, to instruct and explain the proper usage of all of the following items:

Appliances
Dinette Bed Conversions
Electrical System
Fresh Water System
Propane Gas System
Loading and Unloading
Optional Equipment
RV Park Hookup
Waste System
Slide-Out System
Egress Exits

While the dealer has provided basic instructions on how to use your camper, it is ultimately your responsibility to make sure you fully understand how to use the camper prior to doing so. To fulfill this responsibility, in addition to the instructions received from the dealer, you must read all instructional material furnished with the camper. If you do not understand how to operate any appliance or equipment, you should return to your dealer for further instructions.

Your Lance camper comes with the following loose items based on the features and options on your particular camper. Please make sure that you have each of these items:

- · Owner's Information Package
- Two sets of keys for entry door, exterior access doors and slideout control switch
- 12 volt Molded Camper Connector (to be installed on your truck by the dealer)
- · Fire Extinguisher (mounted)
- · Waste Drain Hose with Dumping Hardware
- · Electric or Manual Jack Handle
- · Slide-out Crank Handle
- Entry Step with pins (except side entry campers)
- · Solar Pigtail Plug (Solar ready option)
- · Remote for Electric Power Jacks
- Remote for TV/LCD & DVD (LCD/TV option)
- · Mattress Cover(s)
- . Throw Pillows (2) (if equipped)
- · Pillow Shams (2) (if equipped)

- Insulated Covers for Single Pane Roof Vents
- Propane Quick Disconnect Fitting for Low Pressure Hookup

PLANNING AND PREPARATION

Proper planning of your trip will ensure a pleasurable experience. A thorough knowledge of your RV is important if you are going to get the most of the convenience and safety built into your camper. You should become as familiar with your camper as you are with your own personal car or truck. If you have trouble or questions, you should consult your dealer.

INSPECTION AND MAINTENANCE

Maintaining your camper according to the maintenance schedules given in this manual helps to keep your camping experiences trouble-free while preserving your investment. When your camper needs maintenance, keep in mind that your Lance dealer's staff is trained in servicing the many systems in your camper. Your Lance dealer is dedicated to your satisfaction and will be pleased to answer any questions and concerns. The Maintenance Chart located at the rear of this manual defines the minimum maintenance intervals. Adherence to this schedule will minimize the possibility of failure of important systems of your camper. The time spent inspecting and maintaining your camper will provide you with many years of trouble free recreational pleasure.

ALTERING OR MODIFYING YOUR CAMPER MAY VOID YOUR WARRANTY

Even doing something as simple as hanging a picture; a drill, screw or nail could penetrate an unseen gas line or electrical circuit, which would be hazardous. If you are not sure, call your Lance dealer for help! Also, alterations or modifications to your camper may void your warranty.

Areas between the camper and truck bed are used for ventilation. Filling or blocking these areas could trap and prevent gases from escaping.

REPORTING SAFETY DEFECTS

If you believe that your camper 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 Lance Camper Manufacturing Corporation.

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

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-888-327-4236, or write to: NHTSA, 400 Seventh St., S.W., Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline. They are on the web at www.safecar.gov.

This page intentionally blank.

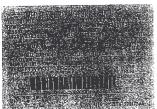
CAMPER AND TRUCK

MATCHING CAMPER AND TRUCK

Selecting the right combination requires understanding a few guidelines. Your Lance dealer can be a valuable source of information when matching a camper to your truck.

The truck bed is mounted to the frame of the truck with mounts that allow for some movement. It is important to allow enough clearance between your truck and camper to prevent damage due to normal racking, twisting and bouncing during driving conditions. The cabover of the camper should never be closer than 1 1/2" to the tallest point of the cab of the truck. This could be cab marker lights or tracking system antennas, if installed. Also, ensure that there is a minimum of 1/4" clearance between the truck bed side rails and the camper wing.

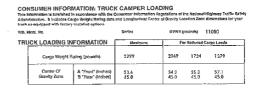
Some truck models have a tapered bed, whereas the bed depth is different between the front and rear. This can make the camper look tilted (front higher then the rear) along the bed of the truck. It may be necessary to place a bed mat in the truck bed to raise the camper to the minimum clearance requirements. There must also be a minimum of 1/2" between where the truck and camper meet at the back of the truck taillight. Adding a spacer at the front of the camper or in the front of the truck bed can insure proper clearance. Refer to your Lance dealer for proper installation.



A Federal Certification Label is required by law on all trucks. It is usually located on the driver side door post. It lists the Gross Vehicle Weight Rating (GVWR), the maximum weight at which the vehicle may be operated. It also provides a Gross Axle Weight Rating (GAWR), the maximum weight allowed for each axle. The GAWR, divided by two, is the maximum axle rating for each end of an axle.

Campers are considered "truck payload." New trucks have their payload capacity posted in the glove box or on a specification sheet supplied with the truck owner's manual. Trucks that have many options and/or a 4-wheel drive option have less payload. To calculate payload the truck manufacturers assume all seat positions are filled with persons weighing 150 pounds each.

One way to determine the actual payload available is to weigh the truck full of fuel and with the number of passengers and subtract that weight from the GVWR.



DO ADMINISTRATION DE PRODER AUTORIA DE CARRON DE L'AUTORIA DE L'AUTORI

Truck manufacturers are also required to provide a "center of gravity zone" for camper loading.



Lance provides a Consumer Information: Truck Camper Loading sheet with the Owner's Information Package supplied with your camper along with a Consumer Information sheet located on the backside of the wardrobe door. The Consumer Information sheet shows your camper's center of gravity and the wet weight of the camper with options. The wet weight is the weight of the camper with the water tank full and propane bottles full.

RV's become overloaded when people put too many things into them. There is no easy way to determine the weight you've loaded, so there's a temptation to keep loading until every available space if filled. People are loading by volume, but weight is far more important. Unfortunately, you may have exceeded the load-carrying capacity of the tires before everything is on board. The only way to tell if your truck/camper is overloaded is to weigh it fully loaded.

6617235452

The most critical point about weighing a vehicle is that it must be weighed with everything on board that will be there while you're traveling. That means you must weigh the truck/camper with passengers, supplies, food, water, propane and the truck full of fuel. Bear in mind that water weighs 8.3 lbs per gallon and propane weighs 4.2 lbs per gallon. These two items alone can add over 400 lbs. Limiting your on-board water until you arrive to your destination will lower your total weight. You must know the actual load on the axles and wheels, and there's no other way to do it other than on a commercial scale.

In addition to knowing the total weight, it is crucial to know the weight on each end of each axle. That's the only way you can find out if the load is both within the tire capacity, as well as whether or not the load is properly distributed.

You should be able to find certified scales by looking in your Yellow Pages for moving and storage companies, farm suppliers, gravel pits, recycling companies or commercial truck stops. Be sure to call in advance to determine whether the facility offers public weighing services, their hours of operation and any fees that might be involved.

AWARNING Failure to properly match camper and truck can result in undesirable handling characteristics and create a safety hazard.

Do not load your vehicle beyond its gross vehicle weight rating (GVWR) and/or gross axle weight ratings (GAWR). Both of these ratings are given on an identification label normally located at the driver's doorpost area.

In addition to knowing the overall weight that can be safely loaded in or attached to the truck, you should know how to distribute the weight in the camper so that correct amounts of weight are placed on each truck axle. Proper weight distribution is required for driving stability and will assure that the truck/camper is not rear, front or side heavy. Heavy weights placed at the rear end of the truck/camper may cause undesirable handling characteristics.

When loading the camper, store heavy gear first, keeping it on or close to the camper floor. Place heavy things far enough forward to keep the loaded camper's center of gravity within the zone recommended by the truck manufacturer. Store only light objects on high shelves. Distribute weight to obtain even side-to-side balance of the loaded vehicle. Secure loose items to prevent weight shifts that could affect the balance of vour vehicle.

TIRES

Tires are available in a variety of load ratings and sizes, and if the tires you currently have cannot handle the load, it maybe possible to replace your tires with tires of higher pound capacity. Bear in mind, that the ultimate capacity of the truck is determined by the weakest link in the system. This could be the tires, wheels, suspension or brakes.

The maximum ratings are molded into the side of the tire. The sidewall of the tire shows maximum and minimum inflation pressure for that load.

Be sure you also know the load and inflation pressure ratings for your wheels as well. Often, these are stamped on the inside of the wheels, but if not, your dealer can help you find out what they are. Never exceed the maximum load or inflation pressure of your wheels.

Driving on under-inflated tires can cause the tires to overheat, which leads to the breakdown of the tire's internal structure. Improper inflation also can reduce your ability to control your vehicle. Tire blowouts occur more during summer months than any other time of the year. Properly inflated tires last longer, run quieter, grip better, increase fuel mileage and safely support and control your vehicle.

Check your tire pressure once a month and each time before you take a trip with your truck and camper. Use a quality air pressure gauge to check the pressure. Do not under-inflate or over-inflate your tires. Inspect your tires for uneven or excessive wear. Look for bulges, cuts, blisters on the sidewalls.

When you're traveling, do as professional commercial drivers do: inspect your tires regularly and check and adjust cold inflation pressure every day that you travel.

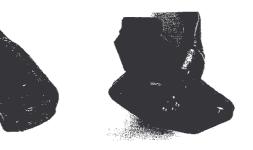
CAUTION Individual wheel position weights must not exceed the maximum tire load capacity. Maximum tire load capacity can only be achieved utilizing the maximum allowable psi as listed on the sidewall of the tire.

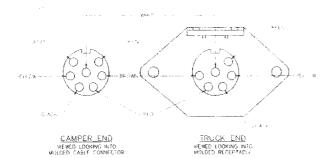
ELECTRICAL CONNECTION TO TRUCK

Your Lance Camper comes equipped with a 12-volt electrical cord with a molded camper connector. The truck electrical connector will be installed by your Lance Dealer to your truck wiring system. With the wiring and connectors hooked-up, your truck will supply 12-volt DC power to charge your camper battery and provide power for the 12-volt power needs while the truck is operating.

Lance Camper uses a proprietary connection plug that has been designed specifically to handle the amperage requirements of the 12v circuit on the 3-way refrigerator.

Under no circumstances should the plug be altered or changed to another type. Common style plugs are not designed to accommodate the 8 gauge wire required for the refrigerator.





COLOR	GAUGE	FUNCTION
Black	8	12-volt power
White	8	Ground (-)
Green	14	Running Lights
Red	16	Left Turn Signal
Brown	16	Right Turn Signal
Yellow	16	Back-up Lights

NOTE: Do not use less than 8 gauge wire size for charge lines. Also, do not attach them to smaller gauge wires. Your camper is equipped with a 3-way refrigerator which uses 120v, 12v or LP gas to operate. Selecting the 12v operation requires a large

amount of amperage. This selection should only be used while traveling when your truck alternator can produce this amount of amperage. Using an 8 gauge wire from your truck battery to the camper will ensure that adequate amperage will be supplied to the refrigerator.

To protect your truck's 12-volt system from overload, a 40-amp circuit breaker should be installed at the power source under the hood. A Battery Separator may be installed on your Lance camper. Its purpose is to protect your truck's starting battery from discharge. To handle the camper's electrical requirements and to charge the camper battery, 8 gauge hot and ground wires must be run from the power source under the truck hood to the 12-volt camper electrical connector location in the truck bed.

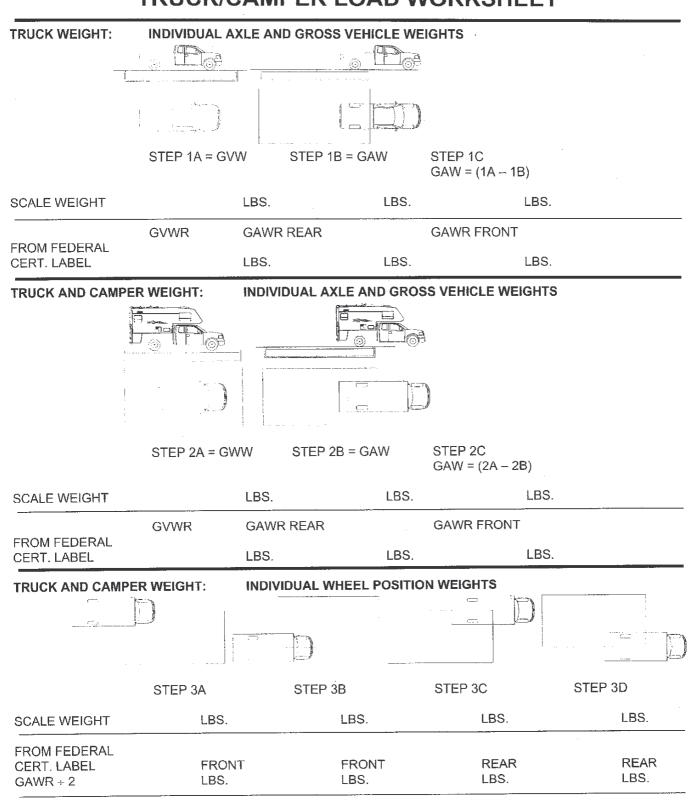
TRUCK/CAMPER LOAD WORKSHEET

The truck must be weighed with occupants and full of fuel. Drive onto the scales and get the weight of the total truck. Next pull forward until the front axle is off the scale and get the weight on the rear axle. Subtract the weight on the rear axle from the total truck weight to get the weight on the front axle.

With the camper loaded and ready for a camp outing, pull on the scales as before and get the weight of the total truck and camper. Next pull forward until the front axle is off the scale and get the weight on the rear axle. Subtract the weight on the rear axle from the total truck and camper weight to arrive at the weight on the front axle. Subtract the truck weights from the total truck and camper weight for each axle. This amount should be less then the truck manufacturer's GAWR rating as shown on the Federal Certification Label. If you are over the GAWR rating, you will need to remove or shift weight accordingly.

Once you are less then the GAWR, you need to weigh each individual wheel to insure you are not overweight from side to side. Again pull on to the scales, but with only the right front tire on the scales. Pull forward and get the weight of the right rear tire. Do the same for the left side tires. First the front and then the rear. Take the GAWR rating of the front axle and divide by 2. Do the same for the rear. This is the GAWR for each axle end. Now subtract the individual wheel weights from the individual GAWR for each wheel. If the amount is less you are within the GAWR for that axle end. If the amount is more, you are over the GAWR for that axle end and you will need to adjust how your unit is loaded to bring the weight down within the GAWR.

Proper weight distribution, load management and operating within established limitations will aid in safe and enjoyable travel.



CAUTION Individual wheel position weights must not exceed the maximum tire load capacity. Maximum tire load capacity can only be achieved utilizing the maximum allowable psi as listed on the tire.

This page intentionally blank.

SUPPORT EQUIPMENT

AIR BAGS

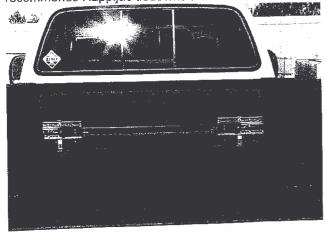
Adding air bags can improve vehicle ride, safety, handling and load hauling. Air bags are used to maintain proper weight distribution to all the tires to improve steering, braking and tire wear. Air bags increase spring rate and improve your truck and camper stability. Air bags are used to raise your loaded truck back to the normal ride height. A level, balanced vehicle handles better and provides a safer, more comfortable ride.

HEAVY DUTY SHOCKS

An adjustable shock absorber can significantly increase ride-tuning capabilities in all driving conditions, on and off-road.

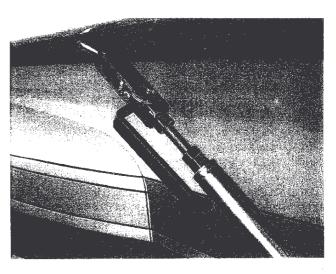
TIEDOWNS AND TURNBUCKLES

The camper must be secured to the truck with high quality tiedowns and turnbuckles. The front turnbuckles must be spring or shock loaded. Lance recommends Happijac tiedowns and turnbuckles.



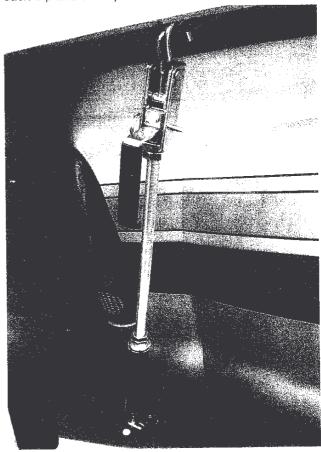
Happijac Front Turnbuckle Installation

The front turnbuckles are the ones with the longer barrel. They are spring loaded. They must be used on the front to ensure proper system performance. Prior to installing the front turnbuckles hold the turnbuckle up by the captive (non-threaded) hook, mark the hook at the point where it enters the barrel with a painted, taped, or scribed line to make future installations easier. Install the turnbuckles on the truck and camper with the threaded hook end up. This will keep moisture from entering and pooling inside the turnbuckle. Tighten the turnbuckle until the mark that you made has drawn away from the base of the barrel by 1/4". This will set the proper preload on the internal spring. DO NOT TIGHTEN BEYOND THIS POINT! The turnbuckles can be easily hand tightened to this point. Use a 3/4" wrench ONLY to tighten and loosen the jam nut which prevents the turnbuckle from twisting loose.



Happijac Rear Turnbuckle Installation

Unlike the front turnbuckles, the rear turnbuckles do not have an internal spring. Rear turnbuckles should NEVER be used on the front of the camper. The rear turnbuckles are the pair with the shorter (8") barrels. Install the Tiedown Couplers onto the Anchor bolts in the ends of the rear bumper. Install the turnbuckles, threaded hook up. Tighten by hand until just snug and then tighten the lock nut using a 3/4" wrench. Check eyebolts, turnbuckles, and bracket bolts before each trip and at frequent intervals.



EXCLUSIVE LANCE CABOVER TRUCK STRUTS

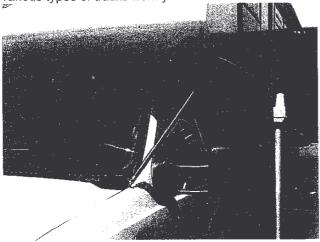
(Shock Absorbers)

To dampen the vertical movements of the camper cabover, it is advisable to install the optional Lance Cabover Struts.

The length of the vertical movement built into the strut will allow them to remain connected to the truck and camper under all but the most rough travel conditions.

The struts should be cleaned and lubricated prior to each trip. This will prevent damage to the o-rings in the strut. It is normal to have an oil film on the shaft of the strut for lubrication.

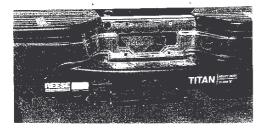
Brackets are sold separately and are available for various types of trucks from your Lance Dealer.



HITCHING AND TOWING SYSTEMS

A Reese hitch system is recommended for use when towing with your truck and Lance camper. The Titan Class V Receiver, along with a custom designed bar extension for campers over 8' are available from authorized Lance dealers. It can be used with a standard weight carrying ball mount, or for added capacity, a weight distributing hitch bar and ball mount.

Hitch systems should be installed by qualified personnel only. Towing will change the handling and braking characteristics of your truck/camper package. Do not tow from or attach a hitch bar or ball to the camper bumper.

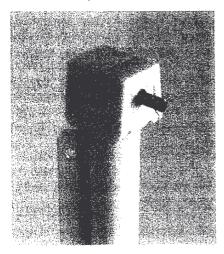


LOADING AND UNLOADING

The camper is loaded, unloaded with the aid of jacks positioned at each corner of the camper. Before operating jacks, read this chapter thoroughly.

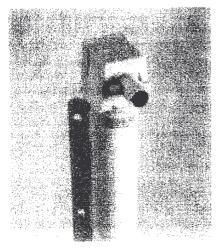
MANUAL ACME SCREW JACKS

To extend or retract a jack, push handle onto drive shaft and rotate slightly until drive pin is engaged in handle slot. Rotate handle clockwise to raise camper or counterclockwise to lower camper. To remove handle, reverse above procedure.



MANUAL BALL SCREW JACKS

To extend or retract a jack, push handle onto alignment tube and depress the release bar with plastic push collar. Hold plastic push collar in place with one hand and rotate the handle slightly with the other hand until the black pin engages at either end of the handle "T" slot. Rotate the handle clockwise to raise camper or counter clockwise to lower camper.



To remove the handle, hold the plastic push collar in place with one hand and back the handle off with the

other hand until the black pin is engaged in the middle of the handle "T" slot. The release bar should audibly and visually spring back into position. To do so the handle must be in the vertical position. If a jack is supporting the camper, it may be necessary to rotate handle clockwise slightly to relieve load on release bar before release bar can be disengaged.

Quick-to-ground feature:

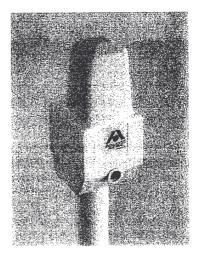
To extend jack from transport position on truck to ground, the base can be dropped quickly to the ground. While release bar is disengaged, step down on base to drop it to the ground.

Do not use quick-to-ground feature with handle in place.

NOTE: Quick-to-ground feature may not work freely until jack has been used several times due to close tolerances built into jack.

ELECTRIC CAMPER JACKS

Electric jacks need 12-volt automotive battery power to operate. The camper battery must be charged and in good condition. If the battery is too low to operate the jacks, charge the battery before using jacks. If the camper is on the truck, starting the truck's engine will supply power to the jacks as long as the 12-volt electrical power cord is connected. If the camper is off the truck and battery power is low, a 12-volt electrical connector extension (available from your Lance Dealer) can be used to connect the camper to the truck to power the jacks. If no power is available, use the manual override operation noted below.



Do not use the electric jacks to raise or lower the camper using only 120-volt power. The converter's charger will be damaged if the jacks are operated with 120-volt power through the 12-volt converter without an automotive battery or with a low battery installed in the camper.

Before operating the remote control electric camper jacks, be sure to read and understand the operating instructions that were provided with your camper pertaining to their safe operation.

6617235452



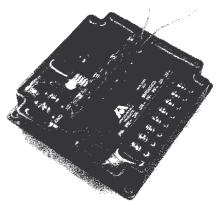


The jacks are operated with a hand held remote control. To activate the remote, locate and press the control switch located inside the camper, at floor level, near the entry door. A light on the face of the control switch will illuminate when activated. The switch is on a time delay that will automatically shut-off approximately 10 minutes after activation. After use, store the remote control in a secure place away from access by children.

The hand held remote control operates on radio frequency, which is similar to remote units for garage doors openers. The remote is powered by a 9v battery located under the removable cover on the back of the remote unit. The remote has a range of up to 20 feet from the camper. Occasional frequency interference from other nearby remote control devices may occur. This will only result in momentary pauses during the extend or retract operation.

IMPORTANT! Always have a spare 9-volt battery available for your remote control.

The frequency of your remote control unit has been pre-set by the manufacturer. If interference problems persist, refer to the manufacturer's operating instructions in your owner's packet to change the frequency.



The power relay (receiver) for your remote jacks is located on the driver's side forward most cabinet, usually in the cabover step.

Some newer models have receivers that use (4) 30 amp ATC fuses that protect each of the jack circuits. If any of the jacks do not operate while depressing the "All Jacks" button on the remote, check the fuses.

To lift camper: (Extend jacks to ground) Press and hold the "ALL JACKS" extend button. All four jacks simultaneously extend until they touch the ground. Release button.

The jacks may not run synchronized. This is due to the distance each jack is located from the 12v source.

Extend front jacks first. Extend front jacks so camper is 4" higher in front than in the rear.

Once the camper front is higher than the rear, press and hold the "ALL JACKS" button. Release the button when the camper is at the desired height. Make sure the front of the camper stays higher than the rear and is level.

Use the individual jack buttons to adjust an individual jack. Press and hold the extend or retract buttons for the individual jacks as needed to keep the front of the camper 4" higher than the rear, to prevent overloading the front jacks. Keep all corners within 4" of level with each other.

To lower camper:

Retract rear jacks first so the camper is 4" lower in the rear than in the front.

Once the camper has the rear lower than the front, press and hold the "ALL JACKS" button and retract. Release the button when the camper is at the desired height.

Use the individual jack buttons to adjust an individual jack. Keep all corners within 4" of level with each other.

6617235452

If the jacks keep running, push the control switch and the light will go out. This should shut off the jacks. If they continue to run, unplug the jack(s) from their exterior plug and contact your Lance service center.

Note: When operating the jacks with a low 12v automobile battery, the "ALL JACKS" extend and retract feature may not work. In that case, use the individual jack buttons to operate the jacks.

When operating the jacks by remote control, visually inspect all four jacks to insure that they are responding properly and that you are following proper lifting or lowering camper procedures.

Do not over-extend or over-retract jacks. The electric iack has an internal slip clutch to help prevent damage; when clicking sound is heard, release switch. Continuing to hold the switch will wear out the slip clutch or cause damage to the motor.

If jacks fail to operate, check these items:

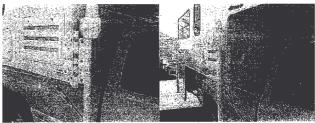
- 1. Be certain that the 9v battery in the remote control unit is fresh. Keep spare batteries available.
- 2. The control switch light located next to the entry must be on.
- 3. You are within range for the remote to operate.
- 4. Adequate 12v battery power is available.
- The jack electrical cord is securely plugged into the exterior socket.
- 6. Hold the remote vertically (keypad facing you) and have it between the camper and you.
- 7. If other radio frequencies devices are making the jacks pause, lift your finger from the button and press the button again.

If the jacks still fail to operate, consult your Lance service center for more information and help.

Manual Override Operation:

To manually extend or retract jack, unplug the jack from the camper. Place the manual override handle into the alignment tube and engage the drive pin. Rotate handle to raise or lower camper.

The handle should rotate without excessive force. Using excessive force to try and extend or retract the jack can cause damage to the internal components of the jack.



Swing-out Brackets: (If equipped)

To load or unload campers on dual rear wheel trucks, swing-out brackets are installed on the front jacks to clear the fender. To operate, follow the steps below:

- Lift jack from the travel notch locked position and swing outward from the camper body.
- Position jack so when camper jack is lowered, the notch and raised tab engage to prevent rotation.
- Repeat the process for the other front mounted jack.
- Follow the standard camper loading and removal procedures below.

LOADING/REMOVING CAMPER

Keep children and animals away from the area when raising or lowering the camper. Avoid putting any part of your body under the camper during the procedure.

Do not tilt the camper sideways while raising it on the jacks. The jacks could buckle.

Always raise or lower the camper with the front either level or higher than the back to avoid weight transfer and damage to jacks or cargo.

Load and unload camper on firm level ground.

Unequal load on the jacks can cause the slideout opening to rack.

Use caution when loading and unloading the camper on a windy day. The amount of wind that is dangerous depends on your exposure and the weight of the camper, etc.



ALWAYS KEEP FRONT HIGHER THAN REAR.

LOADING CAMPER ON TO TRUCK

1. Extend each jack no more than 4" at a time, starting with the front jacks, keeping the camper as level as possible at all times. Repeat this

process until the camper will clear the truck body bed by approximately 4".

6617235452

- Slowly back truck under camper making sure to clear wheel wells and any structure or plumbing located below the living area. This may take more than one try.
- Continue backing until the truck is within a foot of loaded position. Stop and connect the 12-volt power cord to the 12-volt receptacle in the truck bed.
- 4. Continue backing under the camper until the bumpers mounted on the crossbar in the truck bed lightly touch the front of the camper.
- 5. Slowly lower both rear jacks, then front jacks until the camper is resting fully on the truck bed.
- 6. Raise the jacks and secure in place according to the manufacturer's instructions.
- 7. Lift and swing front jacks inward (if equipped with swing out brackets).
- 8. Secure the camper to the truck with turnbuckles. The front turnbuckles must be spring or shock loaded, while the rear should use solid turnbuckles. Install both the front and rear turnbuckles per manufacturer's instructions.
- 9. Connect cabover struts (optional).
- 10. Install crawl through boot (optional).

REMOVING CAMPER FROM TRUCK

- Position the truck/camper combination on firm level ground. If needed, use 12" sq. 3/4" plywood support pads under each jack to prevent sinking into the ground or asphalt.
- 2. Disconnect and/or remove the following items:

Crawl through boot
Cabover struts
Front and rear turnbuckles
12-volt camper power cord
Rear view camera cord (optional)

- 3. Using your remote control, operate all jacks together until the camper clears the truck bed by 4". If necessary to operate the jacks individually, starting with the front jacks, extend the jacks no more than 4" at a time, keeping the camper as level as possible at all times. Repeat the process until the camper has cleared the truck body bed by approximately 4".
- Slowly drive the truck out from under the camper.
 Be sure to clear the front overhang.
- 5. Lower the camper with the rear jacks first, and then the front jacks no more than 4" at a time.

 Always keep the front of the camper slightly higher than the rear.

Always lower camper back down close to ground level. Do not use tall sawhorses, cinderblocks etc. to support the camper in the raised position. Do not enter or occupy the camper in a raised position.

Your camper is designed to be used while standing on the jacks in a lowered position without damage to the camper.

When lowering camper, do not allow camper bumper or generator exhaust pipes to touch the ground. Damage may occur. Allow two inches of clearance to the ground.

LEVELING/STABILIZING CAMPER

Prior to lowering the jacks, try and park on a flat level spot whenever possible; certainly never on a steep slope. If it is not possible to move to a more level location, use wood blocks under the truck tires to assist in leveling. Be sure that the block is larger than the "footprint" of the tire. No part of the tire should ever "hang over" the edge of the block. This includes duallies. This can cause internal damage to the tire. Being level is necessary for comfort, but it is also required for correct operation of your refrigerator and slideout rooms. The jacks should only be used to stabilize the camper when attached to the truck. Attempting to level your camper and truck using the jacks can overload your jacks and cause damage to them, your camper, and your tie-down system.

ON THE ROAD

LOADING

When loading camper gear, store heavy items first and place down low. Distribute weight as evenly as possible from side to side. REMEMBER: overloading or uneven loading can create a serious safety hazard and may shorten the service life of chassis components. Do not load upper cabinets with heavy items. Secure and brace stored items so they won't move during travel, thereby shifting the load in the camper. Do not load heavy items near the end of the camper or on the rear bumper. Carry only as much water as needed for travel use or to balance the load. Whenever possible, empty the waste water holding tanks before traveling.

6617235452

STORAGE

All cabinets and storage areas should have the heaviest items on the bottom and lighter items overhead. After loading you should have the skillets and can goods on the floor or bottom shelf, and the cereals and crackers in the overheads. Use the unbreakable type plates and saucers, and consider storing your dishtowels around them.

Clothing hung in wardrobes should be kept on hangers that snap over the clothes rods to keep them from "jumping" off on rough roads.

PREPARING FOR TRAVEL

Properly preparing for a trip before you leave can make things more enjoyable. Make a list of items you will need or wish to take. Keep in mind the following categories:

Bathroom supplies

Bedding

Cleaning items

Clothing

Fire Extinguisher

First aid items

Food

Holding tank chemical

Kitchenware

Personal items

Road flares

Tools

PRE-TRIP CHECKS (Exterior)

- Connect battery(s) and check condition.
- Check for fluid leaks.
- Check tires and wheels for damage and proper inflation. Check tires for cuts or other damage.
- Check tires for unusual tread wear that may indicate a balance or suspension problem.

- 5. Always keep tires in good condition and when replacing, be certain that the new tires have the load carrying capacity of your truck's G.V.W.R.
- Check that access doors are securely closed.
- Check engine and power plant oil levels.
- 8. Check engine coolant level, windshield washer reservoir, and batteries.
- Check all running lights, taillights and electrical system.
- 10. Be sure tie-downs and cabover stabilizers are securely tightened.
- 11. Be sure to use a stable and adequately rated heavy-duty jack that will lift both the truck and camper combined weight.

(Interior)

- Secure all loose items.
- Close all drawers and cabinets. 2.
- Secure range and refrigerator doors. 3.
- Check that entry door is locked. 4

(Systems)

- Fill fresh water tank.
- Drain holding tanks and secure drain cap.
- Check operation of interior lights and appliances.
- 4. Check propane gas level. Check for kinked propane lines and possible leaks.

POST-TRIP CLEAN-UP

- 1. Clean unit and check for damage.
- Drain waste-holding tanks.
- Clean waste drain hose and secure drain cap. 3.
- 4. Drain fresh water tank and rinse.
- Close outlet valve on propane tank.
- Disconnect the battery cables or turn off battery disconnect switch if equipped.

SAFE DRIVING RULES

Your truck will have different handling and stopping characteristics when it is carrying the camper. The following rules will help you develop needed skills for safe truck camper driving.

Travel slowly with your new truck/camper combination, until you have learned the handling and stopping characteristics of the combination. Practice turning, stopping, and backing in a secluded place away from traffic.

Do not permit a driver who is inexperienced to operate your truck/camper combination without your direct supervision. REMEMBER - it's slow speed for beginners.

Drive at moderate speeds allowing for adverse highway and wind conditions. Even under the best of conditions, do not exceed 55 miles per hour. As speed increases, driving stability, stopping ability, and ability to make emergency maneuvers are greatly reduced.

6617235452

Reduce speed before starting down hills - even short ones - and avoid heavy braking on downgrades. Truck stability is reduced when traveling downhill.

Slow down before entering turns and avoid heavy braking in turns. Truck stability is reduced in turns, and the weight of the camper on the truck will affect the way the truck handles. Avoid quick steering movements that can reduce truck stability.

Maintain at least twice the normal stopping distance while carrying your camper. The increased weight of the camper on the truck requires greater stopping distance.

Use lower gears on long grades. Downshift on upgrades to avoid overheating or undue engine loads. Downshift on downgrades to allow engine braking to assist in controlling vehicle speed. Avoid continuous or frequent brake application. The added weight of the camper can cause brakes to overheat and fade.

Allow ample time for passing. Your acceleration will be much slower when you are carrying the camper.

Become familiar with the position of the truck in traffic, and be cautious when maneuvering to allow for its length and width. Always allow extra room to corner and to change lanes. Learn to use the side mirrors to view the road behind and to the sides. Check them often.

Allow for extra height of your camper. Check for low hanging tree branches or other obstructions whenever you drive, park, or when pulling in for fuel or service. Always check overhead clearance of overpasses and bridges, especially if you drive with the roof vents slightly open or if the camper is equipped with a roof air conditioner, roof rack, TV/radio antenna, or a satellite dish.

Measure your height from the ground to the highest point on the roof. Write it down on a piece of tape and put it in a visible place in your truck. This will help you when you get to that "low overpass".

NOTE: Be sure to lower TV antenna before driving.

RIDING IN CAMPER WHILE TRAVELING

For the safety of passengers, it is not advisable to ride in the camper while traveling. In some states it may be illegal. If it is necessary, care must be taken to remain seated while moving.

CAMPGROUND REGULATIONS

You should always check the campground regulations on arrival. This will avoid any unnecessary conflict with the campground management and/or other campground users. Note: Some Campgrounds do not allow the camper to be removed from the truck.

CARBON MONOXIDE GAS Safety Precautions

Carbon monoxide gas is colorless, tasteless, and odor-less. It is a combustion by-product of fuel burning engines. The engines in your truck and generator system (if installed) produce it constantly while they are running. Carbon monoxide gas is deadly. Please read and understand the following warnings and precautions to protect yourself and others from the effects of carbon monoxide gas.

▲WARNING Exhaust gases are deadly. Do not block the tailpipes or situate the vehicle in a place where the exhaust gases have any possibility of accumulating either outside, underneath, or inside your vehicle or any nearby vehicles.

▲WARNING Outside air movement can carry exhaust gases inside the vehicle through windows or other openings remote from the exhaust outlets.

AWARNING Operate the engine(s) only when safe dispersion of exhaust gases can be assured, and monitor outside conditions to be sure that exhaust continues to be dispersed safely.

▲ WARNING Do not under any circumstances operate any engine while sleeping.

Beware of exhaust gas (carbon monoxide) poisoning symptoms:

Dizziness

Headache

Weakness and sleepiness

Nausea

Vomiting

Muscular twitching

Throbbing in temples

Inability to think coherently

If symptoms indicate the possibility of monoxide gas poisoning:

> Turn off engine(s) immediately Get out into fresh air at once Summon medical assistance

Check the exhaust systems during routine maintenance and repair any leaks, damage, or obstruction before further operations. Do not modify any exhaust system in any way.

EFFECTS OF PROLONGED OCCUPANCY

6617235452

Your camper was designed primarily for recreational use and short-term occupancy. If you expect to occupy the camper for an extended period, be prepared to deal with condensation and the humid conditions that may be encountered.

The relatively small volume of space and air tight construction of a modern recreational vehicle means that the normal living activities of even a few occupants will lead to rapid moisture saturation of the air contained in the camper and the appearance of visible moisture, especially in cold weather.

Just as moisture collects on the outside of a glass of cold water during humid weather, moisture can condense on the inside surfaces of your camper during use in cold weather when the relative humidity of interior air is high. This condition is increased because the insulated walls of the camper are much thinner than house walls.

Estimates indicate that a family of four can vaporize up to three gallons of water daily through breathing, cooking, bathing, and washing. Unless this water vapor is carried outside by ventilation, or condensed by a dehumidifier, it will condense on the inside of the windows and walls as moisture, or in cold weather as frost or ice. It may also condense out of sight within the walls or the ceiling where it will manifest itself as warped or stained panels.

Appearance of these conditions may indicate a serious condensation problem. When you recognize the signs of excessive moisture and condensation in your camper, you should take action to minimize their effects.

NOTE: Your camper is not designed to be used as permanent housing. Use of this product for long term or permanent occupancy may lead to premature deterioration of the structure, interior finishes, fabrics, carpeting and drapes. Damage or deterioration due to long-term occupancy may not be considered normal, and may under the terms of the warranty constitute misuse, abuse or neglect, and may therefore reduce your warranty protection.

VENTILATION AND MOISTURE CONTROL

You can reduce interior moisture condensation by taking the following steps:

Ventilate with outside air. Partially open one or more roof vents and one or more windows to provide circulation of outside air into the interior. While this

ventilation may increase furnace-heating load during cold weather, it will greatly reduce water condensation. Even when it is raining or snowing, ventilation air from outside will be far drier than interior air and will effectively reduce condensation inside the camper.

Minimize moisture release inside the camper. Run the range vent fan when cooking and the bath vent fan (or open the bath vent) when bathing to carry water vapor out of the camper. Avoid making steam from excessive boiling or use of hot water. Remove water or snow from shoes before entering to avoid soaking the carpet. Avoid drying overcoats or other clothes inside the camper.

A DO NOT HEAT THE CAMPER INTERIOR WITH THE RANGE OR OVEN!!

In addition to the hazards of toxic fumes and oxygen depletion, open flames add moisture to the interior air, increasing condensation. Do not use an air humidifier inside the camper. Water put into the air by the humidifier will greatly increase condensation.

Ventilate closets and cabinets. During prolonged use in very cold weather, leave cabinets and closet doors partially open to warm and ventilate the interior of storage compartments built against exterior walls. The airflow will warm the exterior wall surface. reducing or eliminating condensation and minimizing possible ice formation.

Install a dehumidifier. During prolonged, continuous use, a dehumidifying appliance may be more comfortable and effective in removing excess moisture from the interior air. While use of a dehumidifier is not a "cure-all", ventilation, storm windows, and moisture reduction continue to be important, operation of the dehumidifier will reduce the amount of outside air needed for ventilation. Heating load on the furnace will be reduced, and the interior will be less drafty.

Install tight fitting removable thermal windows. This will reduce or eliminate condensation on window glass. The interior surface of the thermal window will be warmer, reducing moisture condensation.

DRIPPING CEILING VENTS

During cold weather and even in short term occupancy, condensation frequently forms on ceiling vents and may even accumulate to the point of dripping onto the surfaces below. This is frequently misinterpreted as a "leaking" roof vent but is most often condensation drippage.

Follow the preceding steps to control moisture condensation. Insulated hatch and vent covers are available. Consult your Lance Dealer.

INTERIOR ODOR

New units may have a strong odor and even cause eye and lung irritation when closed up in hot weather. This is due to glues used in production of forest products (plywood, paneling, etc.). This condition passes with time, but in an extreme condition, open the door, windows, and vents to allow the interior to "air out" for several hours.

FIRE AND SAFETY

The hazard and possibility of fire exists in all areas of life, and the recreational lifestyle is no exception. Your camper is a complex device made up of many materials - some of them flammable. But like most hazards, the possibility of fire can be virtually eliminated by recognizing the danger and practicing common sense safety and maintenance habits.

6617235452

Recreational vehicle fires are generally caused by unattended food cooking on the stove or in the oven. faulty or damaged wiring and electrical devices, fuel leaks (both gasoline and propane), or carelessness. The most common careless acts include smoking in bed, leaving children unattended and cleaning with flammable liquids.

Consider These Fire Safety Suggestions:

Before refueling your truck or any fuel tank in the vicinity of your camper, be sure to turn off all pilots and appliances in your camper. (See Important Words on Safety on page 7)

Consider the cause and severity of the fire and the risk involved before trying to put it out. If the fire is major or is fed by gasoline, propane or any type of oil product, stand clear of the vehicle and wait for the fire department or other emergency assistance.

If your camper is damaged by fire, do not use it until it has been thoroughly examined and the cause of the fire is found and fixed.

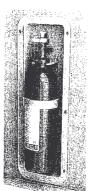
All occupants of the camper should become familiar with the audible sound of the smoke, propane leak and CO detectors. If an alarm sounds, investigate the cause. Do not remove the detector in an attempt to silence the alarm.

Teach everyone in the camper how to use the entry door locking system and egress window. Occasionally open the egress window to prevent the seal from sticking. Always keep the dead bolt on the entry door in working condition.

FIRE EXTINGUISHER

The fire extinguisher in your camper is located near the main entry door. Your fire extinguisher should be replaced immediately after use or discharge.

The fire extinguisher furnished with your camper is rated for Class B (gasoline, grease, flammable liquids) and Class C (electrical) fires since these are the most common types of fires in recreational vehicles. Read the instructions on the fire extinguisher. Know how and when to use it. You and your family should be familiar with its operation. If you find it necessary to use the



fire extinguisher, stand 45 degrees from the flame and spray side to side, starting at the top of the flame. Use caution to avoid standing upwind or uphill. If flames are climbing, spray vertical and work the retardant downwards. Dry chemical flame retardant should be cleaned away as soon as possible.

SMOKE DETECTOR

Most fire casualties are caused by inhalation of toxic fumes (smoke) from a fire and not by flame. The smoke detector responds to smoke that enters the sensing chamber. It does not sense gas, heat or flame. A ceiling mounted, battery powered smoke detector is located in the living /cooking area of your camper. Please read the smoke detector Owner's Manual for details on testing and caring for this important safety device.



Test the smoke detector after the camper has been in storage, before each trip, and at least once a week during use.

The smoke detector should never be disabled due to nuisance or false alarm from cooking smoke, a dusty furnace, etc. Ventilate your camper with fresh air and the alarm will turn off. Do not disconnect the battery.

Replace the battery once a year or immediately when the low battery "beep" signal sounds once a minute. The detector uses a standard 9-volt battery.

Test smoke detector operation after replacing the battery. If the smoke detector fails to operate with a new battery, replace the detector with a new unit.

A permanently installed propane detector is located near the floor in the galley area. The unit contains an alarm that will sound, alerting you to the presence of low levels of potentially dangerous propane that may have been released due to a gas leak.

6617235452



NOTE: This device detects the presence of propane; it does not disconnect the gas supply.

Be aware of the difference between a propane leak versus propane escaping from an unlit, open burner. Pure propane from a leaking pipe or fitting is heavier than air and will build up its heaviest concentration at the floor level first. Propane from open burners is intentionally mixed with air to induce burning and will dissipate into the air. The primary purpose of the detector is to detect propane leaks. The propane from open burners is mixed with air (oxygen) so that it will burn. When mixed with air, the propane becomes only marginally heavier than air and may not sink to the floor. If a burner is left on, the area around the burner, range and adjoining counter space will be combustible and will cause injury and damage if ignited. This condition may exist for an extended time period before the propane can reach the detector's location and be detected. The detector only indicates the presence of propane at the sensor. Propane may be present in other areas.

Other combustibles which may be detected by the detector include alcohol, liquor, deodorants, colognes, perfumes, wine, adhesives, lacquer, kerosene, gasoline, glues, most cleaning agents and the propellants of aerosol cans.

If the alarm sounds, turn the propane off at the tank(s), turn off all propane appliances, extinguish all flames and smoking material and open all doors and major windows to air out the camper. Do not re-enter the camper until the alarm stops sounding. If the alarm sounds a second time after the propane is turned back on, leave the propane off and have a Lance service center make the necessary repairs to the source of the propane leak.

The propane leak detector will not work without power.

The detector unit is powered by the 12-volt DC system and is always powered as long as the camper is connected to the truck, a charged battery, or 120-volt AC power. A GREEN LED on the front panel indicates that the detector has power. The fuse for the detector is located in the Power Distribution Center.

Test the leak detector each time the camper is relocated and set up for use. Press the test switch. The LED should flash RED and the alarm should sound. Release the switch.

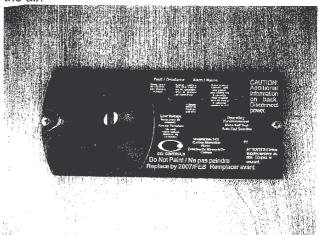
Do not use a cigarette lighter to test the alarm.

A mute button will allow you to temporarily quiet the alarm after it has been set off or after testing. If the alarm does not sound during a test or if the green indicator light is not visible, check the fuse. If there is power to the detector and it does not operate, see your dealer. There are no internal batteries or user serviceable parts inside this unit.

NOTE: The detector is continuously powered; disconnect the battery if you are not using your camper. Low camper battery power will cause the ORANGE LED to light and there will be an audible beep every 45 seconds to indicate this low voltage condition.

CARBON MONOXIDE DETECTOR

The carbon monoxide detector is located in the main sleeping area. It is designed to alert you to the presence of dangerous levels of carbon monoxide in the air.



Once 12 volts DC power is supplied, the GREEN LED power indicator will turn on indicating the alarm is ready to detect CO gas. There is not a switch to allow the unit to be accidentally turned off, so the detector has been designed to protect you by alerting you to

the buildup of potentially dangerous levels of CO gas. The fuse is located in the power distribution center.

It is important to test the CO detector once a week or each time it has remained unpowered for more than a day. Use a butane lighter to test without striking the flint wheel.

Be sure that the detector has been powered for a minimum of 10 minutes.

- · Press and hold test button for 15 seconds.
- Without releasing the test button, aim the butane lighter nozzle towards the gas Sensor Area.
- Press the gas release quickly (not more that 1 second). DO NOT ROTATE FLINT WHEEL.
- Release the test button.
- The alarm should sound and the RED LED will light. Press and release the test button to silence the alarm. If the alarm continues to sound, wait 30 seconds and press and release the test button again. NOTE: The alarm will reset within five minutes without pressing the test button. Repeat this procedure, if it doesn't sound, then see the troubleshooting section in the CO detector Owner's Instructions.

▲WARNING Carbon monoxide cannot be seen or smelled and can kill you.

If the alarm sounds, immediately turn off all combustion sources and ventilate the premises. Evacuate the premises immediately. Do a head count to check that all persons are accounted for. Do not re-enter the unit until it has been aired out and the problem corrected. Have the problem corrected before restarting appliances.

Read and understand the CO detector information supplied in your Owner's Information Package.

NOTE: The detector is continuously powered; disconnect the battery if you are not using your camper. Low camper battery power will cause the ORANGE LED to light and there will be an audible beep every 45 seconds to indicate this low voltage condition.

This page intentionally blank.

6617235452

EQUIPMENT

SOME FEATURES DESCRIBED HERE DO NOT APPEAR ON ALL LANCE MODELS. SOME FEATURES MAY BE OPTIONAL ON YOUR MODEL.

After taking delivery of your Lance camper, spend some time familiarizing yourself with the exterior and interior features. Your interior has been designed with utility and comfort in mind to provide spaciousness and versatility. Familiarize yourself with the bedding and dining arrangements as well as the various storage areas inside and out.

ROOF

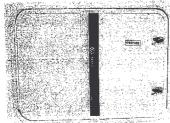
All Lance models have a fully decked and laminated roof that may be walked on from front to rear and are rated at 2,000 lbs. The top decking is TPO (Thermal Plastic Olefin). When walking on the roof use deck shoes as leather shoes become slippery and can also leave marks on the decking. When on the roof, use caution to avoid slips and falls. Use caution when loading sharp articles on the roof as you can gouge or puncture the roof. If you add accessories or new equipment on the roof, use a qualified installer, or consult your dealer. Care must be taken when working on the roof to avoid disrupting the seals which could void your warranty.

COMPARTMENT DOORS

Various exterior compartment doors provide access to certain appliances, controls, and general storage. Exterior compartment doors may not be water tight in all weather and road conditions. Any article which could be damaged by water or dirt should be carried inside the camper or truck.

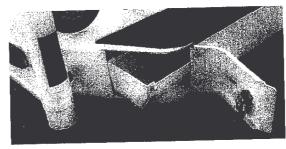
Outside storage compartments are not sealed or vented enclosures and may be accessible from inside the camper. Do not store hazardous chemicals/materials or flammable, volatile liquids in these areas.

The Water Heater Door provides access to the operating control of the water heater.

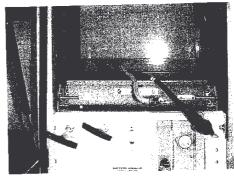


The Propane Tank Compartment Door provides access to the storage propane tank(s) and regulator valve(s). This compartment door must remain unlocked as required by National Fire Protection Association (NFPA) to allow immediate access in case of a propane leak or fire. A large red propane label is located on the door to aid emergency personnel to rapidly locate the gas valve.

The Refrigerator Vent/Door provides access to the rear of the refrigerator for service and supplies inlet ventilation for proper operation.



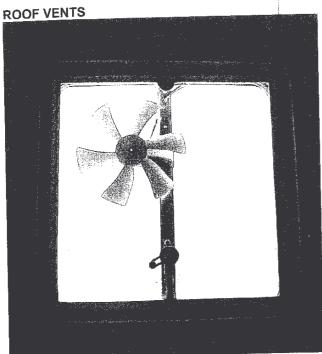
The Bumper Hinged Door provides storage and convenient access to the waste drain hose and storage tray.



The Exterior Service Center is accessed by lifting up on the driver side skirt door. This door has a gas assisted two position strut which opens to 90 degrees. This position will allow access to the compartment when the slideout is in the extended (out) position. When the slide room is in the retracted (in) position, the service center accessibility can be extended by lifting the door past the first stop position.

VENTS

All exterior vents and louvers provide needed air circulation. Be sure not to block these vents because damage to equipment, as well as hazards to individuals could result.



6617235452

The roof vents are operated from inside and have built-in screens. To operate, turn the crank in the center of the vent clockwise to open and adjust. The bath vent may be equipped with a 12-volt exhaust fan. The switch to control the fan is located on the vent. These vents may be left slightly open while traveling, but be careful when traveling where vertical clearance is limited. Vent lids can crack if left open too far

FANTASTIC ROOF VENT



The Fantastic high-volume power roof vent is designed to quickly exhaust stale hot air. Some models are equipped with a reversing fan that will also draw in fresh air. Due to the proximity of holding tank vents located on the roof, some models do not have this feature.

Operating Instructions:

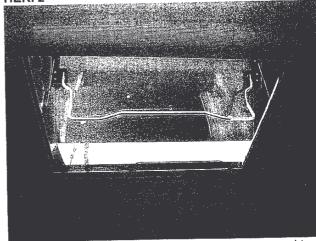
- Turn knob counter-clockwise to open vent approximately 3" or more (ceiling vent has a builtin safety switch that will not allow motor to operate unless dome is partially open).
- Turn the 3-speed switch to desired performance level (O-off, 1-low, 2-medium, or 3-high).
- Open a window or door for airflow. For best results, close all roof vents and open 1 (one) window the greatest distance from the ceiling fan.
- Select desired temperature or comfort level on thermostat. Fan motor will start and stop automatically as interior temperature of camper exceeds or drops below selected level.

If equipped with a reverse switch

- 1. When equipped with a reverse switch, the fan motor must be turned off by:
 - a. Setting the 3-speed switch must be switched to "O"-Off.
 - b. Closing the dome.
 - c. Selecting the center position on the IN/OUT rocker switch.
- 2. Wait for fan blade to stop.
- 3. Selecting IN will bring air from the exterior into the camper (pressurizes inside).
- 4. Or selecting OUT will bring air in through any opening in the camper and exhaust through the vent to the exterior.
- 5 Turn fan motor "On".

CABOVER SKYLIGHT

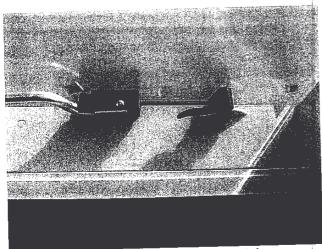
HEKI 2



The dual pane cabover skylight that can be opened to multiple positions, used to access the roof, has a sliding screen and insulated black-out shade.

To open to the full position

1. Press the button in the toggle catches on each side of the glass and turn approximately 90°.



Failure to depress the button on the catch can cause the toggle catch to break.

- Grasp the metal bar in the middle, snap it out of its holder, swivel down and press the glass dome upwards. (Glass dome is held by the two gas springs after approx. 6" of travel).
- Swivel the metal bar towards the glass down and snap into its holder.

To close the glass dome, proceed with steps (1-3) in reverse order.

To open to the intermediate position

- Open the toggle catches on either side of the glass as above.
- 2. Grasp the metal bar in the middle, snap it out of its holder, swivel down and press the glass dome outwards. (Glass dome is opened automatically after approx. 6" by the two gas springs).
- Open both fasteners and swivel the metal strap toward the intermediate position, and pull the glass dome down until the metal strap is stopped by the fasteners.
- Safeguard the metal strap with both fasteners.

To close, proceed with steps (1-4) in reverse order.

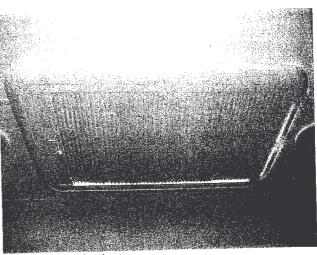
To open in the ventilation position

- 1. Open the toggle catches on either side of the glass as above.
- Using both hands on the two toggle catches, press the glass dome up about ³/₄ inch and fasten the toggle catches in the corresponding setting.

To close, proceed with steps (1-2) in reverse order.

Closing the shade

- To close the shade, take hold of the end rod (without rocker) in the recessed grip and engage in the opposite end rod (with rocker).
- Select the required position (shade/screen) by moving both joined end rods together.



Opening the shade

- Move shade (end rod with rocker) right to the outside.
- Hold the recessed grip with one hand; with the other hand, press the rocker and move the shade back (do not let it recoil).

HEKI MIDI



This skylight is dual pane and opens to three positions. It has a sliding screen and insulated shade.

To open

Depress the button and push the metal bar upwards. The vent has two open ventilation positions and a fully open position.

To close

Raise the metal bar up off the positioning tracks and push toward the rear of the vent, up over the button. The dome is automatically locked when closed.

The shade and screen operate independently of each other and are engaged by connecting to each other and sliding.

Close the skylight completely when traveling and leave shade partially open. The shade could pull up into the vent due to negative pressure in the camper. If camper is parked in extremely bright sunlight, leave shade partially open. If completely closed heat buildup can cause damage to the dome.

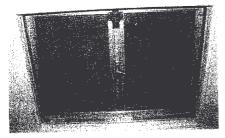
Do not stand on the acrylic glass dome.

Close the cover completely before driving off.
 Damage can occur to the shade if the shade is closed and the vent is open while driving.

6617235452

- Remove any snow/ice or dirt before opening the roof.
- Do not open dome when it rains or when there is a strong wind.

ESCAPE HATCH



The escape hatch is operated from inside and has a built-in screen. It can be cranked open to allow for ventilation or by pulling on the red lever opened fully to allow access to the roof.

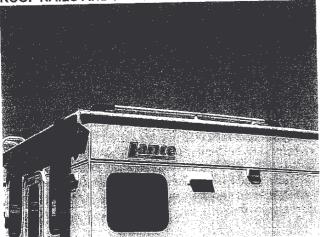
To open using the crank
Turn the crank in the center of the vent counterclockwise to open and clockwise to close.

To open using the emergency handle
Pull the red lever toward the front of the vent and push
the vent assembly upward to open.

EXTERIOR LIGHTING

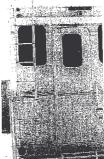
Your camper is equipped with exterior lights not normally found on autos to comply with state and federal regulations. It's important not to alter the lights or the reflecting markers. Check the exterior lighting frequently and replace any burned out bulbs or damaged parts as soon as possible.

ROOF RAILS AND LADDER



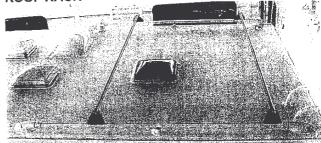
All models are equipped with roof rails and a ladder. The roof rails are supplied with adjustable tie-down

loops that can be used to secure light bulky items, such as lawn chairs.



Some models have the ladder located in front of a storage or generator access door. In order to gain access to the door, the ladder's lower section is hinged allowing it to swing up and be secured in place. Before using the ladder, it must be lowered and locked into the brackets

ROOF RACK



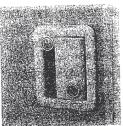
The optional Yakima towers and cross bars can be mounted to the roof tracks that allow other accessories to be added to accommodate transporting other items on the roof of your camper. Roof rail capacity with Yakama towers and cross bars is 300 lbs. Be sure to spread the load across the rails. Accessories for the crossbars are available from your Lance dealer or a local Yakama dealer.

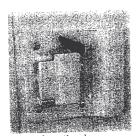
▲ WARNING It is critical that all racks and accessories be properly and securely attached to your camper. Improper attachment could result in an accident or damage to your camper's roof. Check the attachments prior to use and periodically inspect for adjustments, wear and damage.

Large, long or oversize items will require additional strapping/tie-downs. Do not underestimate the power of the wind.

ENTRY DOOR

The entry door lock and deadbolt are keyed alike. The key is double sided so it can be installed into the lock either direction. Be sure to write down the key number on the Identification Information Page located in the front of this manual. Your Lance dealer can obtain duplicates with this number.





6617235452

The entry door lock is locked by turning the key clockwise one quarter turn. The key can then be removed. To unlock, insert the key and turn counterclockwise one quarter turn. If the door is locked from the outside, it can still open it from the inside by pulling on the paddle handle. If you exit the camper and you close the door, it will be locked. The deadbolt is locked by turning the key counter-clockwise one quarter turn. The key is then returned to the starting position for removal. The deadbolt can be latched from the interior by turning the latch clockwise to lock and counter-clockwise to unlock.

Be sure all occupants in the camper know how to operate the entry door lock as well as the escape window in case of emergency.

When traveling, lock the deadbolt. This will reduce the possibility of the door opening on the road.

The screen door can be operated independently by releasing the catch on the screen door and swinging the screen door away from the main door.

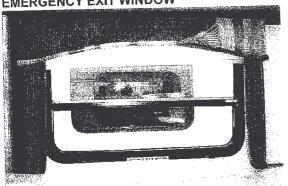
WINDOWS

Windows in your camper are slider or torque pane type. All windows are safety glass. Open slider windows by rotating the locking lever and sliding the window. Open torque windows by turning the crank located at the bottom of the window frame, clockwise to open, counterclockwise to close.

REMOVABLE THERMAL WINDOWS

Removable thermal storm windows can be installed on all windows except the emergency exit window. The thermal window is fastened from the interior over the existing window with clips.

EMERGENCY EXIT WINDOW



The emergency exit window is located in the cabover area of the camper and is identified by the red handle(s) and EXIT label. Storm windows should never be installed over emergency exit windows.

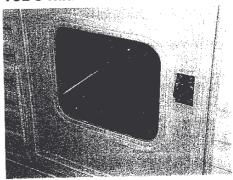
Read and understand these instructions before you need to use them. The emergency exit window provides an escape route in case the camper must be evacuated under emergency conditions and the path to the main entry door is blocked.

To operate the emergency exit window, pull the red handle(s) and swing the window outward. The window is hinged at the top.

When parked, be sure the exit window is not blocked by trees or other obstacles.

The cabover skylight can also be used as an escape route.

SAF-T-VUE ® WINDOW



The Saf-T-Vue® window, with its special wide angle lens, is located in the lower part of the camper entry door to assist in backing, towing and driving safety by allowing visibility to the rear in areas not covered by the truck side view mirrors.

It is advisible, upon delivery of your new camper, to familiarize yourself with the real distance as compared to the vision through the window. This will help you judge more accurately, the true distance of vehicles or objects to the rear.

A vinyl cover is provided, on the inside of the window that will allow you to cover the opening when privacy is desired. When cleaning the lens side of the window (inside), wash with soapy water and dry with a clean soft cloth. Care should be taken to avoid harsh cleansers as they may damage the lens.

AWNINGS





An operating and maintenance guide for your awning(s) is included in your Owner's Information Package. It contains instructions for opening and closing the awning, as well as maintenance and care instructions.

You should make sure your traveling companion is also familiar with the operation of the awning. If a sudden wind should come up, or if high winds are forecast, the awning should be retracted, stowed and the travel locks engaged. Awnings should be extended at an angle to encourage the run off of rain. Awnings damage such as a bent tube, torn canvas, or broken arms due to high winds or water standing on the canvas are not covered by warranty.

CAUTION Travel locks on all awnings should be engaged before traveling.

SLIDEOUT COVER

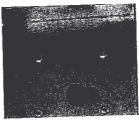


The slideout cover extends and retracts with the slide room. It helps to divert water off the slide room roof and helps in keeping the roof clean of debris. The room seal can become less effective or even damaged if the slide room roof is not kept clean.

EXTERIOR WASH STATION



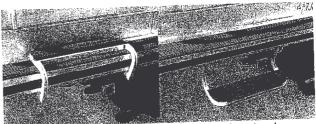
The exterior wash station is located in the service center under the roadside lift-up skirt door. It provides both hot and cold water. It uses water from the fresh water tank or when connected to the city water hookup. The showerhead is equipped with a flow control to allow you to conserve water. The flow control is not a permanent shut off. After use, the water must be shut off at the control valves.



By-pass valves for the exterior wash station are located inside of the entry step. Pull-out storage drawer on the left side or above the wash station, or in the lavy behind the tp door.

CAMPER BUMPER/STEP

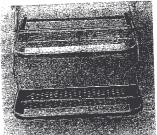




The aluminum bumper has sealed taillights, backup lights and an illuminated license plate location and storage for the sewer hose. Use the fold down step when entering or exiting the camper. The step can be mounted to the right of the entry for use when towing a boat or trailer.



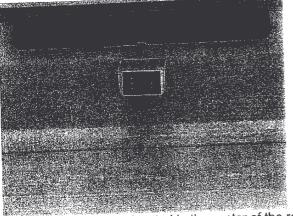




Side entry models are supplied with a double entry step. To extend the double step, pull the complete step assembly out and let it down completely. Unfold the bottom step from over the top step and lower it completely. Reverse to retract.

6617235452

BACKUP CAMERA



The backup camera is located in the center of the rear wall, directly below the center running lights. It is a color camera with a built-in microphone. The connection cable exits the camper in the roadside front corner next to the truck electrical connection. The mating harness and monitor are available from your Lance Dealer.

INTERIOR STORAGE

Interior storage areas may be found in a number of places in your camper: overhead compartments, wall closets, under the dinette, under the bed, lavy and galley cabinets.

Drawers rest in detent notches when they are closed. To open drawers, lift up slightly, and then pull open. These "travel locks" reduce the opening of drawers during travel, but may not hold on rough road surfaces.

Some wardrobe cabinets are equipped with a 12-volt light that turns ON when the door is opened. If you experience some battery discharging, it could be that the light may not be OFF. Readjust the light striker to insure proper operation when the door is closed.

BATHROOM

The bathroom walls are sealed and waterproof; so do not worry if water splashes on it. All models are equipped with a power roof vent in the bathroom.

The toilet is designed to flush with a minimal amount of water and still provide for proper disposal and odor control. Toilet chemicals are available at most RV retail outlets. Review the manufacturer's owner's manual supplied with the toilet for proper use, maintenance and chemical usage. The toilet paper dispenser is mounted inside the lavy door under the

sink. Information on the toilet plumbing can be found in the "Waste System" section.

CABOVER AREA

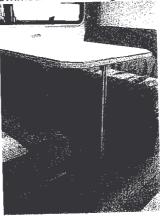
Do not allow anyone, children especially, to ride in the cabover area while traveling. Any sudden stops could result in injury.

GALLEY

The galley is designed for utility, convenience and comfort. All galley cabinets are equipped with positive locking latches, which prevent them from opening while traveling. Refer to the "Appliance" section for information regarding the appliances.

DINETTE CUSHIONS

The dinette cushions are reversible with a vinyl backing for use when sitting at the dinette with damp swimsuits or clothing



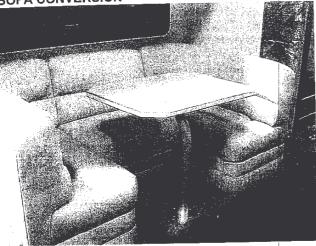
DINETTE CONVERSION BENCH SEATING

To convert the dinette area into a sleeping area:

- 1. Lower table to dinette supports.
- Arrange seat and back cushions as shown in the

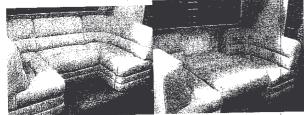


SOFA CONVERSION



To convert the sofa into a sleeping area:

- 1. Remove table and pedestal.
- Grab the center section of the sofa and pull forward.
- The sofa back cushions can be removed to increase the sleeping length.



DAY/NIGHT SHADES

The day/night shades are dual-purpose window covering that provides privacy at night and light control during the day.

To operate, pull down on the lower bar to expose the sheer fabric for daytime light control. For use at night, pull on the upper bar to unfold the privacy night shade. Day/night shades in the cabover have a blackout feature to limit light intrusion.

MINI-BLINDS

To raise mini-blinds, release the bottom of the blind from the retainers. Pull straight down on the cord and release at desired height. It is not necessary to pull the cord to one side or the other to secure blind.

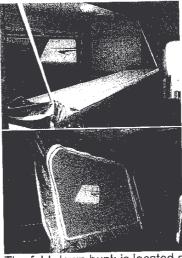
To lower mini-blinds, pull straight down on the cord slightly and move it about 45 degrees to either the left or right and lower the blind. To stop the blind in midtravel, move it back to the straight down position. Reattach the blind to the retainers when traveling.

To adjust the angle, turn the adjusting rod either direction.

FOLDING DIVIDER DOOR

The divider allows you to separate the cabover area from the main camper. It glides on nylon rollers. It is held closed by a catch. When the divider is open for traveling, be sure to attach the hold back latch to keep it from sliding back and forth.

FOLD DOWN BUNK AND CHILD RESTRAINT



The fold-down bunk is located over the dinette. To lower, pull the latches located at each end and lower the bunk. Flip the center section over to complete the lower platform. Unfold the child restraint and secure the top to the fasteners in the upper flange of the slideout. To store the bunk, reverse the procedure. The bunk is rated for 150 lbs.

CARGO NET

The cargo net should be used to secure items in the overhead fold down bunk area, especially bulky items such as sleeping bags and lawn chairs.

The cargo net is not designed for or intended to be used for securing children or other people in the bunk at any time.

When traveling, limit the storage in the bunk area to 150 lbs. maximum.

To use the cargo net:

- 1. Unlatch the bunk face and fold down to gain access to the cargo net which is attached to the back of the bunk face.
- 2. Slide out the panel to cover door openings.
- The cargo net top edge is fabricated of elastic cord with loops that correspond with hooks attached to adjoining walls.
- 4. Slip the loops over these hooks and the top cord over the hooks located in the ceiling to hold the cargo net in place. Some stretching is required and necessary to provide the cargo net a taut and snug fit.

ELECTRICAL SYSTEMS

The electrical system consists of a primary 12-volt DC system and a 120-volt AC system. The 12-volt system uses battery power similar to that used in automobiles. The 120-volt system requires a source of 120-volt power provided through the power supply cord or optional generator.

These systems are connected through a power converter. When connected to 120-volt power, the converter transforms 120-volt AC input into 12-volt DC power output and charges the storage battery(s) when installed.

12-VOLT DC SYSTEM

The 12-volt system provides power for the following components:

Electric Jacks Interior Lighting

Exterior Lighting

Water Pump

Power Range Hood

Furnace Blower

Refrigerator

Water Heater Ignition

Stereo/CD/DVD Player

Fantastic Fan

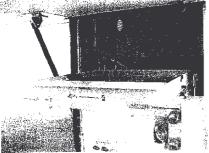
Power Vent

Starting the Generator

Slideout Room

Accessories plugged into 12-volt outlet

BATTERY AND COMPARTMENT



Maintenance of your 12-volt battery(s) is essential for carefree travel. Be sure to use a heavy-duty, minimum 95 amp/hr. (160 RC), RV/Marine deep-cycle battery. Certain models can accommodate two batteries. Ensure that they are both the same size and type battery. Check the battery(s) frequently with the condition meter located on the monitor panel. Also check the water level often. The use of a hydrometer is required to test for the specific gravity of the battery acid. Hydrometers are available through an auto parts store.

NOTE: The 12-volt battery(s) is not supplied with the camper by the manufacturer.

BATTERY TERMINOLOGY

Deep Cycle Batteries

The term "deep cycle" refers to a battery that has the capability of deeply discharging hundreds of times. How it differs from an automotive starting battery is that the automotive battery is manufactured to specifically provide a quick burst of energy thousands of times while only being able to deeply discharge less than 50 cycles during its lifetime. A cycle refers to one battery discharge and recharge.

Battery Ratings and Specifications
Marine/RV deep cycle batteries have rating
specifications which include cold cranking amps
(CCA), marine cranking amps (MCA), reserve capacity
(RC) and ampere hours (Ah). RC and approximate Ah
ratings may not be listed on the battery decal.
However, they should be available through your local
battery distributor.

Cold Cranking Amps (CCA)

The amount of current (amps) a battery at 0°F (-17.8°C) can deliver for 30 seconds and maintain at least 1,2 volts per cell (7.2 volts for a 12-volt battery).

Marine Cranking Amps (MCA)

The amount of discharge current a battery tested at 32°F (0°C) can deliver for 30 seconds and maintain at least 1.2 volts per cell (7.2 volts on a 12-volt battery).

Reserve Capacity (RC)

The amount of time a battery can deliver 25 amps at 80°F (26.7°C) without falling below 1.75 volts per cell (10.5 volts on a 12-volt battery). An approximate Ah rating can be attained by multiplying the battery's RC rating by 0.6. Example 180 RC x 0.6 = 108 Ah.

Ampere hours (Ah)

Tested at 80°F (26.7°C). It is the amount of current (in amps) a battery can deliver, multiplied by the amount of hours, without falling below 1.75 volts per cell (10.5 volts on a 12-volt battery). Most marine/RV deep cycle batteries are rated on a 20-hour discharge rate. Example: a 100 Ah battery can deliver 5 amps for 20 hours (amps x hours = Ah). The Ah rating is important when determining the type and amount of battery(s) required to meet your specific component needs.

BATTERY INFORMATION

The battery(s) must be securely strapped in the compartment at all times.

The battery(s) is charged by the truck's charging system while the truck is running or when connected to 120-volt power through the power converter. If equipped, the on-board generator charges the battery while running through the power converter.

Check that the battery liquid level is correct (weekly in warm climate, monthly in cold climate). Don't forget to also check the condition of your truck battery. Add distilled water as required. Clean battery terminals and cables periodically with a wire brush and baking soda. Be sure the caps are securely in place when cleaning. Ensure that the wing nuts on top of the battery are tight. Loose wing nuts can cause arcing and intermittent or loss of 12-volt power. Use caution not to touch battery terminals to metal doorframe when removing or installing the battery. Always disconnect the negative (-) cable first and reconnect it last.

Remove rings, metal watchbands, and other metal jewelry before working around a battery. Use caution when using metal tools. If the tool contacts the battery terminals or metal connected to them, a short circuit could occur which could cause personal injury or fire.

Do not allow battery electrolyte to contact skin, eyes, fabrics or painted surfaces. The electrolyte is a sulfuric acid solution that could cause serious personal injury or property damage. Wear eye protection when working with batteries.

BATTERY STORAGE PRECAUTIONS

When you store your camper for a week or more be sure to disconnect the battery(s). Electronic tuning radios, the propane detector, and the CO detector all draw a small amount of current when the battery is connected. Even disconnected batteries will naturally "self-discharge" about 1 % of capacity per day. If you intend to store your camper for any length of time, remove the battery(s). Store it in a cool, dry place and recharge every month. Batteries will discharge on own. Recharging will also help prevent problems with battery sulfation which leads to premature battery failure.

BATTERY CHARGING

Normally the battery(s) will be kept charged by either the truck charging system while on the road, the roof mounted solar panel, or by the AC/DC power converter when plugged into AC service. On those occasions when the battery needs to be charged from a different charging source, please follow these safety guidelines:

Disconnect both cables to prevent damage to the camper's electrical system.

Do not smoke near batteries being charged or which have been recently charged. Please note that batteries are being charged while you drive, and while you are connected to 120-volt AC power through the power converter/charging circuit.

Use care when connecting or disconnecting booster leads or cables while charging. Poor connections are a common cause of electrical arcs that can cause explosions.

Check and adjust the electrolyte level before charging. Fill each cell to the indicator level with distilled water. Always remove the vent caps (if equipped) before charging the battery.

Never expose the battery to open flame or electric spark. Chemical action in the battery generates hydrogen gas that is flammable and explosive.

Before connecting the battery cables, turn off all electrical components to avoid sparks. Connect the **BLACK** cable to the **POSITIVE (+)** post on the battery. Connect the **WHITE** cable to the **NEGATIVE (-)** post.

NOTE: This is different then the automotive industry which uses red and black. There are fuses on the front of the power converter that will protect the camper's electrical system if you accidentally connect the battery in reverse.

The 40 amp main circuit breaker (located inside the camper inside of the pullout drawer storage at the stepwell) will not allow power into the camper or the battery(s) to be charged when an overload or short circuit occurs. To reset the breaker, disconnect and reconnect the white negative (-) cable from the battery. If your camper is equipped with a battery disconnect switch, Pushing the battery disconnect switch located on the monitor panel to "store" then "use" will accomplish the same. If the breaker continues to trip, a short circuit or overload condition is indicated. Have the system checked by qualified personnel.

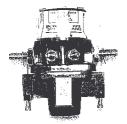
BATTERY SEPARATOR



The battery separator eliminates the need to add an isolator to the truck electrical system. The Battery Separator is installed inside the camper where the truck electrical connector enters the camper. The Battery Separator allows both the truck and camper batteries to be charged from the truck alternator. The Battery Separator isolates the batteries, so that the truck battery will not be discharged from camper use. The Battery Separator will begin charging the camper

battery after the truck battery has reached 13.2 volts. If the drain on the truck battery is reduced below 12.8 volts, the Battery Separator will disconnect the truck battery from the camper circuit, thus protecting the truck battery from excessive drain.

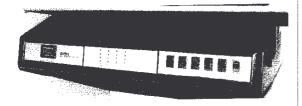
BATTERY DISCONNECT SWITCH

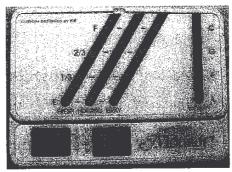


The battery disconnect switch is used to separate the camper battery(s) from the 12-volt distribution panel and converter charging system. The switch is located on the monitor panel. The relay is located inside of the storage tray opening in the stepwell. To disconnect the battery(s), press the switch to the "store" position momentarily. If there is no external power (120-volt from shore power or generator) applied to the system, the indicator light should go out. To reconnect the battery(s), press the switch to the "use" position momentarily. The indicator light should glow indicating 12-volt power is available. The converter or truck cannot charge the battery when the switch is in the "store" position. There are two 5 amp fuses located on the disconnect switch. One feeds the LED indicator and digital voltmeter. The other feeds the power to the disconnect switch.

SYSTEMS MONITOR PANEL







The systems monitor panel may incorporate controls and instrumentation for the water and holding tank levels, battery voltage level, battery disconnect, water pump, water heater ignition, generator start and hour reading.

WATER PUMP CONTROL SWITCH

This rocker switch controls the demand water pump. The water pump is pressure sensitive and starts (with the switch ON) when a faucet is open, causing pressure in the line to drop. When the faucet is closed, pressure builds in the line and the pump stops.

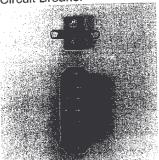
MONITOR PANEL - LEVEL INDICATOR SWITCH When depressing the monitor switch, indicator lights for the black (waste), grey (sink) and fresh water tank will illuminate, indicating the existing condition of each component. The battery level is a digital display that reflects the battery voltage when the switch is depressed.

Erroneous indications when checking water levels can be caused by:

Water with low mineral content. Level is measured by a very low electrical signal traveling through the liquid. Some water that is low in mineral content may not conduct the signal properly. This condition may be infrequent, but can exist. Check the panel reading when the fresh water tank is filled. Material trapped on the sides of the holding tanks may give a full reading when the tank is actually empty. Use of a spray to wash out the tank following dumping should help prevent this condition.

NOTE: If the sensor probes mounted in the tanks get coated with grease, the monitor panel may indicate falsely or not at all. Avoid pouring grease, oils, or similar substances down drains or the toilet. If this is unavoidable, the holding tank(s) should be washed out with a soapy water solution.

EXTERIOR LIGHT FUSE BOX 12-volt and Main Circuit Breaker

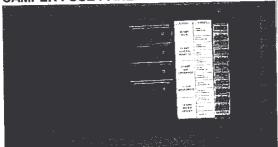


The fuse box contains fuses and a 40-amp circuit breaker that feeds power from the truck to the camper fuse panel, refrigerator, jacks, exterior lights and battery. When an overload or short circuit occurs, this breaker will not allow power from the truck into the camper. (Be aware of the other 40 amp circuit breaker located inside of the storage tray opening in the stepwell may have been tripped and may also have to be reset.)

The fuse box is located in the forward driver side front corner of the main floor. Circuit titles and fuse sizes are labeled.

To reset the breaker, disconnect and then reconnect the power connector to the truck. If the breaker continues to trip, a short circuit or overload condition is indicated. Have the system checked by your Lance dealer.

CAMPER FUSE PANEL 12-volt Interior Circuits



A 12-volt interior fuse panel is installed in the Power Distribution Center to protect the interior circuits. Circuit titles and fuse sizes are marked inside the removable access door. If a fuse blows, locate and correct the cause. Turn off all lights and motors, and then install a fuse with the same rating. If fuses continue to blow, a short circuit is indicated. Have the system checked by qualified personnel.

FUSES

All the electrical circuits in your camper have fuses to protect them from short or overload. If something electrical in your camper stops working, the first thing you should check for is a blown fuse. Determine from the chart, or the diagram on the fuse panel, which fuse

or fuses control that component. Check those fuses first, but check all fuses before deciding that a blown fuse is not the cause. Replace any fuses and check the component's operation.

Do not install fuses with amperage ratings greater than that specified on the label. Replacing a fuse with one that has a higher rating greatly increases the chances of damaging the electrical system. If you do not have a replacement fuse with the proper rating for the circuit, install one with a lower rating until you can replace it with the proper rated fuse.

If the replacement fuse of the same rating blows in a short time, there is probably an electrical problem with your camper. Leave the blown fuse in that circuit and have your camper checked by your Lance dealer.

INTERIOR LIGHTING

The interior lighting operates on 12-volt DC power only. When connected to a 120-volt source or using the generator, the power converter transforms 120-volts to 12-volts. However; when not connected to 120-volts, the entire load of lights, water pump, exhaust fans, etc., is on your 12-volt battery(s). Use conservatively to minimize battery discharging.

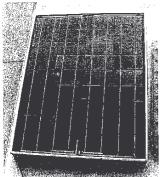
Certain switched lights have lighted (red) switches. These would include the exterior porch lights, docking light and the bath light when it is switched from outside of the bath. These switches illuminate when "on" to remind you that the light is on.

CAUTION Some of the lighting fixtures may be equipped with halogen bulbs. The bulbs and fixtures may get very hot when they are on. Do not touch these lighting fixtures when they are on. Allow them to cool before attempting to replace a bulb or to clean. Replace all light bulbs with the same type and wattage as originally installed or as indicated on the fixture.

SOLAR PANEL PRE-WIRE

The pre-wire solar panel connector is mounted on the roof of the camper near the front of the camper. The mating connector is supplied in the loose parts box.

Two wires, 12ga blue (+) and 12ga white (-) run from this location, are looped in the cabinet next to the galley and terminate behind the battery compartment for future connection to the battery. The 12 ga blue wire must be fused with a 10-amp fuse when a solar panel is installed.

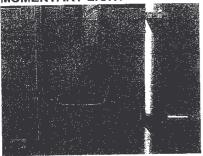


The solar panel is mounted on the roof beside the cabover skylight over the cabover bed area. The panel plugs into the connector mounted on the roof. Inside the cabinet next to the galley cabinet a voltage regulator is mounted. The panel wires terminate at the battery disconnect relay located inside of the storage tray opening in the stepwell. The 12ga blue (+) wire is fused with a 10-amp fuse and connected to the 40-amp circuit breaker. The 12ga white (-) wire terminates at the battery negative (-) post. The solar panel is designed to "trickle charge" your battery system. It is not intended to be a fast charger. It also cannot supply large amounts of current to operate 12-volt DC electrical equipment.

6617235452

NOTE: Weather conditions will affect the charging rate of the solar panel. Refer to the solar panel manual supplied in your Owner's Information Package.

MOMENTARY LIGHT



The Momentary Light Switch is located adjacent to the entry door under the entry grab handle. By touching the pad, the entry door light will illuminate for approximately 30 seconds to aid in unlocking the door in the dark. While on, the interior light switch will also light up to identify the switch for the entry door light.

DOCKING LIGHTS

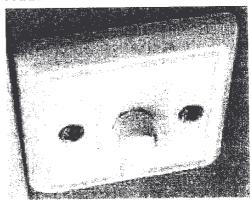


The Rear Docking Lights are operated either by the backup light circuit from your truck (when put into reverse) or manually with a switch located inside next to the entry door. There are three fuses in the system: the power fuse, which is located on the exterior fuse panel, the backup fuse, also located on the exterior fuse panel and the interior lighting circuit, which is circuit #4 on the power distribution center.

TELEPHONE JACK

An RJ-series jack may be installed in the service center compartment next to the Park Cable Hookup. The interior phone connection is located next to the dinette.

PARK CABLE INLET



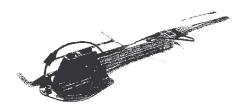
The park cable inlet is located under the driver's side camper overhang in the service center. This allows for the connection from campground cable service via a coax cable (not provided) to the camper. The cable inside the camper is terminated at the primary TV location at a wall plate. If your camper is also equipped with a TV antenna, the park cable terminates into the 12-volt/TV outlet. With the switch in the "OFF" position, the park cable signal is sent through the outlet.

TV/SATELLITE ANTENNA PRE-WIRE

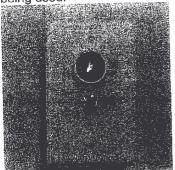
All Lance Camper models are pre-wired with (2) RG6 cables installed that run from the roof antenna location to the primary TV location. Two cables are run so that either a TV antenna or combo TV/satellite dish can be installed. The combo antenna requires two separate cables. The cables terminate in the roof at the TV

antenna location. The cables are accessed by removing the plastic plug located on the interior ceiling. This is the centerline for the antenna mount. The two cables are coiled inside the roof in this area. When installing an antenna ensure that the cables are not damaged when drilling up through the hole in the ceiling. The cables terminate behind the park cable termination plate inside the entertainment center. Remove the cover plate to access.

ROOF MOUNTED ANTENNA AND TV OUTLET



The roof-mounted TV antenna is designed for reception of VHF and UHF television signals. Before traveling always remember to lower the antenna to prevent damage to the antenna, camper roof, or objects in the path of the antenna, such as overhead wires. The TV jack outlet is located at the primary TV location. The booster switch should be turned "OFF" when not viewing the TV to prevent battery drain as the red indicator light will use a small amount of current. It may be necessary to also unplug the TV as some also use a small amount of power when not being used.



- 1. 12 volt outlet
- 2. TV hook-up
- 3. Antenna/cable switch
- Antenna booster light

To use the TV antenna, turn "ON" the switch located on the TV jack (Item 3). A red light will show on the indicating the antenna booster is powered. There will be a small continual 12-volt current drain as long as the switch is on. Turning the switch "OFF" changes the TV jack from antenna operation to park cable and ceases the current draw.

NOTE: The 12-volt outlet is intended for a TV only and rated for 7.5 amps. DO NOT USE FOR HIGHER RATED APPLIANCES.

SATELLITE DISH



Units equipped with a satellite dish have an additional outlet located next to the TV jack. The satellite receiver will connect to this outlet. The system also comes with an Elevation Sensor. The satellite receiver manual will give you the correct elevation to set your dish to. Press the button on the Digital Display. If the antenna is in the travel position, the display will show "LL" for Low Limit. "HL" for High Limit will show when the dish is in the UP position. A 9-volt battery located on the back side of the display powers the Elevation Sensor. Crank the elevation handle to raise the antenna. Stop cranking when the readout displays the correct elevation for your location. Rotate the antenna VERY SLOWLY until the correct satellite signal is acquired. Before installing and connecting a satellite receiving system, be sure you are familiar with the components you intend to install, other hardware or components required, and how they are designed to work together. Always refer to the component manufacturer's installation/operation information before installing or operating a satellite system in your camper.

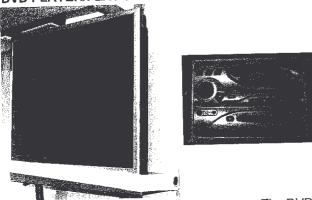
For operation of the TV or satellite antennas, see their operation manuals located in your Owner's Information Package.

STEREO/SPEAKER PRE-WIRE

All Lance campers are pre-wired for a future stereo system. The speakers or speaker wiring are located in the ceiling, two in the cabover area and two over the dinette in the main ceiling. Their locations are denoted with a label attached to the ceiling. There is blocking there for mounting a 5 I/2" diameter speaker. The stereo location is also denoted with a label attached to the cabinet where it is to be installed.

Instructional material can be found in the Owner's Information Package for the stereo system.

DVD PLAYER/FLAT SCREEN TV



6617235452

The DVD player is integrated into the stereo. The DVD player uses the stereo speakers for audio (sound) transmission when playing a DVD. The DVD player has both video and audio connections on the back, which is connected to an audio/video cable that runs to the LCD TV location. On the factory supplied LCD TV, the video (yellow) is connected to the "INPUT2" video location on the backside of the TV. The audio right (red) and audio left (white) are connected to the "INPUT3/OUTPUT" audio R and L locations on the backside of the TV.

The LCD TV can run on either 12-volt or 120-volt. To operate on 12-volt, plug in the supplied cable from the DC power connection on the back of the TV to the 12volt receptacle located in the primary TV location. When not in use, the LCD TV will continue to draw power unless it is unplugged. If you plan on operating the TV on 120-volt, plug in the AC adapter into the 120-volt receptacle located in the primary TV location

To watch a DVD, turn on the TV. Insert the disk into the DVD player and follow the on-screen directions to play the movie. Remember that the DVD remote needs to be pointed towards the DVD player, not the TV to operate.

The DVD player will allow the audio (sound) to play over the stereo speakers from an over the air or satellite broadcast. The TV needs to be set to "INPUT3/OUTPUT" "OUT" and the player needs to be set on "AUX".

120-VOLT AC SYSTEM

The 120-volt electrical system supplies power to the following components:

AC to DC Power Converter 120-volt Outlets (interior and exterior) Refrigerator Roof Mounted Air Conditioner (optional) Convection Microwave Oven

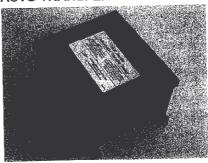
Never operate the 120-volt electrical system without a proper ground.

120-VOLT POWER CORD

Your camper is equipped with a heavy-duty power cord for connection to an external 120-volt, 30 amp rated service. The cord is commonly called the "shore cord". The cord and plug are molded together to form a weatherproof assembly. Do not cut or alter the cord in any way. Do not remove the ground pin from the attachment plug. If you have to use an adapter to plug into an electrical service, make sure the ground is maintained.

Never use a two-conductor extension cord, or any cord that does not assure appropriate and adequate ground continuity. Use a 30-amp RV extension cord with a maximum length of 25'. Never plug the 120-volt cord into an ungrounded receptacle.

AUTO TRANSFER RELAY



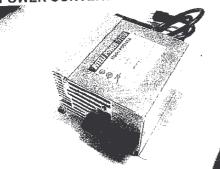
Campers that are generator ready or have a generator installed are equipped with an Auto Transfer Relay. The Auto Transfer Relay automatically switches to generator power when the generator is activated. Both the shore cord and the generator output circuit are wired to the transfer relay. It is then wired to the Power Distribution Center. When connected to shore power the relay switches to shoreline power. To operate the camper from the onboard generator, simply start the generator. After about a 20 second delay to allow the generator to stabilize the relay will engage, transferring all the 120-volt AC load to the generator.

POWER DISTRIBUTION CENTER



The power distribution center consists of 120-volt AC and 12-volt DC panels. The 120-volt AC panel board containing a 30-amp main breaker and 15 and/or 20amp branch circuit breakers. These breakers interrupt the power if the rated current is exceeded. If a breaker trips repeatedly, reduce the load on that circuit and have the system checked by your Lance dealer.

POWER CONVERTER



Switching from 120-volt AC power to 12-volt DC power is automatic when the power cord is plugged in or the generator is on. This powers the 12-volt panel board and the connected circuits are protected by the installed fuses. Battery charging is automatic when plugged into 120-volt AC power. The converter has reverse battery circuitry to prevent damage if the battery is accidentally connected in reverse. There are two 30 amp ATC fuses located in the front of the converter, which are accessed by removing the louvered grill located next to the power distribution center.

6617235452

These fuses protect the power converter from accidental shorting of the power cables at the battery or reverse polarity caused by accidental cross connecting the battery. Remember BLACK is POSITIVE (+), WHITE is NEGATIVE (-).

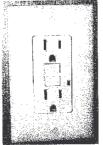
The power converter has a cooling fan that will run at appropriate times to cool the converter.

NOTE: Should the converter shutdown during normal operation, heat may be the cause. The converter has a built-in automatic-reset thermal breaker that will reset after a cooling off period. If this occurs frequently, dealer or qualified personnel should correct the problem. Be sure not to store items in front of the vent openings.

CHARGE WIZARD

Your power converter has an integrated Charge Wizard that monitors battery voltage and battery use. It selects from different charge voltages and operating modes to provide a safe, rapid battery recharge and prevents water loss during periods of storage. Depending on the discharged level of the battery, the Charge Wizard will either select the Boost, Normal or Storage Mode to properly maintain the battery charge. Every 21 hours while operating in the Storage Mode, the Charge Wizard is automatically switched to the Equalizing Mode. The Equalizing Mode increases the charging voltage for 15 minutes which helps prevent problems with battery sulfation which leads to premature battery failure.

GROUND FAULT CIRCUIT INTERRUPTER



A Ground Fault Circuit Interrupter (GFCI) protects the bathroom, galley, and patio 120-volt receptacles. This device is intended to protect you against the hazards of line to ground electric faults and electrical leakage shocks possible when using appliances in damp

NOTE: The GFCI device does not prevent electrical shock. It does not protect a person who comes in contact with both the "hot" and "neutral" sides of the circuit. It does not protect you against electrical overload.

TEST the GFCI at least once a month while operating on 120-volt AC power. To test the GFCI:

Push the TEST button. The RESET button should pop out, indicating that the protected circuit has been disconnected.

If the reset button does not pop out when the test button is pushed, a loss of ground fault protection is indicated. Do not use the outlet or other outlets on the same circuit. Have the camper electrical system checked out at an authorized Lance Dealer Service Center. Do not use the system until the problem has been corrected.

To restore power, push the RESET button.

NOTE: If the bathroom, galley or patio receptacles don't work, check the GFCI. Reset the button if necessary. If the GFCI continues to trip, have the camper electrical system checked at an authorized Lance Dealer Service Center or by a qualified electrician.

GENERATOR READY

The generator compartment is sized for an Onan Camp Power 2500 Propane powered generator provided by Lance Camper Manufacturing Corp. Only qualified Lance dealer personnel should complete the installation.

Do not use this compartment for the operation of a portable generator.

Generator ready condition includes: the vented compartment door (see caution note), 12-volt pre-wired remote start/stop switch with hour meter, 120-volt and 12-volt wiring and LP gas supply piping with a capped bulkhead fitting.

CAUTION: The generator ready access door has an insert panel installed behind the air inlet grill. This is to help keep most dirt, dust and moisture out of the compartment should it be used for storage. It is mandatory that this be removed when a generator is installed. Also prior to installing a generator, the plastic compartment liner must be removed. Failure to do so will result in generator overheating and possible fire danger.

POWER GENERATOR



Before operating any generator, read and understand this section of the manual and the manufacturer's operating instructions for your generator.

Your camper may be equipped with an Onan propane powered generator, which will provide complete electrical self-containment when public utility 120-volt AC power is unavailable.

The voltage output of the generator is connected to an automatic transfer switching device which when the generator power plant is operating, power is available at all of the 120-volt power outlets in the camper, just as if the power cord were connected to an external source.

The generator circuit breaker provides circuit protection while in the "ON" operating mode. See the Onan Generator Manual for location.

The propane tank(s) supplies fuel to the generator and other gas appliances in the camper. Check propane level frequently to avoid running out of fuel.

NOTE: Refer to your Onan Generator Power Plant
Owner's Manual provided in your Owner's Information
Package for starting, operating, service and
trouble-shooting instructions.

To start the generator: Press the START/STOP switch to the start position and hold until the unit starts. Make sure that all electrical equipment is turned off prior to starting and that the propane valve is opened on the propane tank(s).

Always wait at least three minutes after starting generator before turning on or plugging in heavy electrical loads, such as the roof air conditioner and the convection microwave oven.

CAUTION: If the unit is slow to start, DO NOT hold the start switch in the START position for more than 10 seconds. Release the switch, wait 30 seconds minimum and then try again. This will help avoid overheating and damaging the generator starting system. If this fails to start the generator, consult the troubleshooting guide in the Generator Owner's Manual.

To stop the generator:

- 1. Turn off all electrical loads.
- Let the generator run at no-load for a few minutes, to stabilize internal engine generator temperatures.
- 3. Place START/STOP switch in the STOP position.

GENERATOR OPERATING SAFETY PRECAUTIONS AND WARNINGS

Do not block the generator ventilating air inlets or outlets. The engine requires a constant supply of cooling air. Restricted ventilating air inlets or outlets can cause engine failure or fire from engine overheating.

Do not use generator-ventilating air for heating any interior living space. Ventilating air can contain high concentrations of lethal gases.

EXHAUST GAS IS DEADLY!

Exhaust gases contain carbon monoxide, an odorless and colorless gas. Carbon monoxide is poisonous and can cause unconsciousness and death. See the "carbon monoxide safety precautions" section in "on the road" chapter.

Protection against carbon monoxide inhalation also includes proper exhaust system installation and visual and audible inspection of the complete exhaust system at the start of each generator set operation.

Do not block the tailpipe or situate the camper in a place where the exhaust gases have any possibility of accumulating either outside, underneath, or inside your vehicle or nearby vehicles.

Outside air movement can carry exhaust gases inside the vehicle through windows or other openings remote from the exhaust opening. Operate the engine (s) only when safe dispersion of exhaust gases can be assured, and monitor outside conditions to be sure that exhaust continues to be dispersed safely.

6617235452

Do not under any circumstances operate the generator while sleeping. You would not be able to monitor outside conditions to assure that generator exhaust does not enter the interior, and you would not be alert to exhaust odors or symptoms of carbon monoxide poisoning.

Do not operate the generator when parked in or near high grass or brush areas. Exhaust heat may cause a fire.

Do not use the generator as an emergency power source to a residential or industrial utility line. Such operation could cause death or serious injury to workers for utility companies. Such use is unlawful in some states.

Check the generator exhaust system after every eight (8) hours of operation and whenever the system or camper structure may have been damaged, and repair any leaks or obstructions before further operation.

Do not modify the generator installation or exhaust system in any way.

Disconnect the generator starting battery before performing any maintenance on the generator.

GENERATOR MAINTENANCE AND SERVICE

Specific maintenance requirements are outlined in the Generator Owner's Manual supplied with the camper. Follow these guidelines and /or refer to your dealer for assistance.

GENERATOR/ELECTRICAL COMPONENT INCOMPATIBILITY

Your generator has been carefully matched to the electrical components and appliances installed in your camper. Adding or changing the type of any electrical component to another type or size can cause an incompatibility with the generator circuitry. This can cause the generator or added component not to function properly.

LOADING THE GENERATOR

The generator can power AC motors, air conditioners, AC/DC converters and other appliances. How much load can be serviced depends upon the generator power rating, temperature and altitude. The generator will shut down or its circuit breakers will trip if the sum of the loads exceeds the generator's power. Allow the air conditioner to operate on the thermostat setting. If manually operated, it may cause an overload condition.

Applying excessively high electrical loads may damage the generator and may shorten its life.

To avoid overloading the generator, add up the rated watts of all electrical lighting, appliance, tool and motor loads the generator will power at one time. This total should not be greater than the wattage capacity of the generator. If an electrical device nameplate gives only volts and amps, multiply volts time's amps to obtain watts (volts x amps = watts). Some electric motors require more watts of power (or amps of current) for starting than for continuous operation.

TYPICAL APPLIANCE LOADS		
Appliance	Load (Watts)	Load (Amps)
Air Conditioner	1400-2000	12-17
Blender	600	5.50
Coffee Maker	550-750	4-6.50
Computer	50-100	.0590
Converter	300-350	2-3
Curling Iron	20-50	.2050
Electric Blanket	50-200	.50-1.50
Electric Frying Pan	1000-1500	8-13
Hair Dryer	800-1500	7-13
Iron	500-1200	4-10
Microwave	1000-1500	8-13
Refrigerator	600-1000	5-8
Television	200-600	1.50-4
Toaster	750-1200	6.50-10
VCR/DVD Player	150-200	1-1.50

POWER VS. ALTITUDE

Note also that air density decreases as altitude and ambient air temperature increase, causing the generator power to decrease. Power decreases approximately 3.5 percent of rated power for each 1000 feet of increase in elevation and 1 percent each 10°F (5.6°C) rise in temperature above 85°F (29°C).

Elevation above Sea Level	Maximum Power
Up to 500 feet 2500 feet 5500 feet above 5500 feet	2500 watts (rated) 2325 watts 2063 watts 2063 watts minus 87 watts each 1000 ft

PROPANE GAS SYSTEM

Please observe the warnings and cautions contained in this section as well as the manufacturers supplied information with each gas appliance.

6617235452

Propane is stored in a high-pressure tank in liquid form and is delivered to the appliances in a gaseous form. The propane container(s) must not be placed or stored inside a vehicle. The container(s) are equipped with safety devices that relieve excess pressure by discharging propane to the atmosphere.

BTU'S

One gallon of propane produces approximately 91,502 BTU's. Using the BTU rating of each gas appliance in your RV, your can determine about how long your supply will last according to your usage.

Dual 5 gallon propane bottles hold approximately 862,026 BTU's. Dual 7 gallon propane bottles hold approximately 1,294,840 BTU's.

Listed below is the rating of the appliances on your Lance Max:

Water Heater

8800 BTU

Furnace

15000 BTU low 22000 BTU high

Refrigerator

1500 BTU

Cooktop

9000 BTU large burner

6500 BTU small burners

5600 BTU oven

Generator

31245 BTU 1/2 load

50638 BTU full load

SAFETY PRECAUTIONS

Propane gas is of course highly flammable and also heavier than air. It's treated to have a garliclike odor to detecting a leak. If a leak should occur, the propane can collect in pockets along the floor and thereby dissipate the air. If unnoticed, this could result in suffocation or an explosion.

ADANGER

IF YOU SMELL PROPANE

1. Extinguish any open flames, pilot lights and all smoking materials.

Do not touch electrical switches. Shut off the propane supply at the tank valve(s) or propane supply connection. Open door and other ventilating openings. Leave the area until odor clears. Have the propane system checked and leakage source corrected before using again.

- 2. Inspect the entire propane system for leaks or damaged parts before each trip.
- 3. Never check for leaks with an open flame. Use an approved leak detection solution or a nonammoniated, non-chlorinated soap solution only. If the leak cannot be located, have the system checked by qualified personnel.
- 4. Always be careful when drilling holes or fastening objects to the camper. A nail or screw could puncture the propane supply lines.
- 5. Do not restrict access to propane tanks. In an emergency, the tank service valve must be easily accessible. Do not store items or block ventilation openings in the propane compartment.
- 6. Do not use any propane tanks other than those furnished with your camper.

Turn off main propane valve and individually turn off all propane appliances or electrically disconnect automatic ignition appliances before entering propane bulk plant or motor fuel service station. When not individually turned off, automatic ignition appliances may continue to spark.

Do not fill propane containers to more than 80 % capacity. Overfilling can result in uncontrolled propane flow that can cause fire and explosion. A properly filled container holds about 80 % of its volume as liquid.

- Propane regulators must always be installed with the diaphragm vent facing downward within 45° of vertical to minimize vent blockage that could result in excessive propane pressure causing fire or explosion.
- Do not use a wrench or pliers to close the service valve. This valve is designed to be closed leaktight by hand. If a tool is required to stop a leak, the valve probably needs repair or replacement.
- 9. When attaching the hose connector to the valve, don't force, jam or cross-thread the fitting. Always check fitting for leaks after tightening.
- 10. Be sure the tanks are securely fastened whenever they are mounted on the camper.
- 11. Go to a Lance dealer for any propane system repairs.
- 12. Always think safety.

FILLING PROPANE TANK

All new propane tanks must be purged of air and moisture before filling for the first time. The propane tanks should be filled according to the instructions on page 5 and on the tank safety labels.

6617235452

Filling should be done only at authorized propane fueling stations. Please observe the following instructions when filling the storage tanks.

D.O.T. regulation #173-34 prohibits propane tanks from being refilled inside the RV. The tank(s) must be removed from the compartment to be properly inspected before refilling.

Use propane tanks in their proper position.

- A small amount of anhydrous methanol (3/4 oz per 5 gal) can be added before filling an empty tank to prevent freeze-ups. Check with your propane dealer or the propane tank manufacturer's information in the Owner's Information Package provided with your camper.
- The law requires at least a 20% vapor space for safety. A special liquid level valve is installed in the tank to indicate when the tank has reached 80% of it volume as liquid propane. Stop filling when liquid appears at this valve.
- 3. Use vapor only. All propane appliances for cooking, heating, lighting, water heating, and refrigeration are designed to operate on propane vapor only. Therefore, all propane tanks designed for vapor service must be transported, installed and used in the proper position. propane containers are permanently marked with "TOP" stamped on tank, welded to the tank or "ARROWS must point up" stamped in the guard or bracket to identify the proper position.
- 4. Do not transport, install or use a vertical cylinder in a horizontal or upside down position. Never use a horizontal cylinder or tank on its improper side. Liquid propane could enter systems designed for vapor only, creating a hazardous condition.
- 5. Do not carry or store filled or empty propane containers inside your camper. Propane containers are equipped with a safety device that relieves excessive pressure by discharging gas to the atmosphere. Leaks can occur at valves and fittings. Always store propane tanks with the valves closed.
- Always use the dust cap when transporting or storing disconnected tanks (full or empty).
- All propane tanks must be securely attached in the proper position for intended use. Use all brackets provided to ensure proper support and positioning.
- 8. Route all propane lines carefully and avoids kinking the lines. A kinked hose can limit or cutoff the flow of propane through the system.

USING PROPANE SYSTEM

It is normal to have a slight gas odor when initially opening the outlet valve. Fully open and seat valve by hand only to prevent leakage past the valve stem. If an odor seems to linger perform a leak test.

Keep outlet valves closed when not using the propane system.

Do not attempt to adjust the regulator. The manufacturer has preset it. If any adjustment is required, a qualified propane service technician using special equipment must make it.

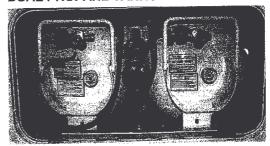
NOTE: The Owner's Information Package contains a helpful hints pamphlet about propane containers.

SINGLE PROPANE TANKS



Single propane tanks are equipped with a two-stage regulator. Be sure the regulator is securely fastened to the tank with the diaphragm vent facing downward. When using the tank, simply open the valve.

DUAL PROPANE TANKS



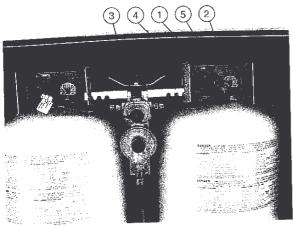
Dual propane tanks are equipped with a two-stage automatic changeover regulator, which transfers propane demand automatically to the second tank when the first tank becomes empty.

For proper operation, both outlet valves must be opened. Turn or slide the tank selector knob so it points to the tank you wish to provide service. A small glass window is located on the regulator. A clear or green band will appear in the window indicating that pressure is in the line from the tank. After all propane is used from that tank, the regulator will automatically switch service to the other tank, and a red band will

show in the window, with the arrow or slide pointing to the empty tank.

6617235452

The empty tank can be removed for filling without disturbing the gas flow to the camper by rotating or sliding the tank selector to the full tank. The red band will disappear from the window indicating pressure supply from the full tank. Turn off the outlet valve on the empty tank before disconnecting.



- **Outlet Valve** 1.
- Level Gauge 2.
- Two Stage Regulator 3. (Vent Facing Down)
- Liquid Level Valve 4. (20% Valve)
- Valve Connector 5.

PROPANE AT LOW TEMPERATURES

Propane systems can and do freeze up in very cold weather. It is a common misconception that the regulator or the propane itself freezes. Actually, it is moisture or water vapor that gets trapped in the system or absorbed by the propane that freezes and causes the problem.

Where does the water come from? From a variety of sources. The propane can be saturated with water when it comes out of the gas plant or refinery unless care is taken to see that it is thoroughly dehydrated. The propane can absorb water while it is transported if the tank cars contain water; or the propane storage tanks may have water in them because moist air has been trapped in the tank because a valve was left open.

When this water freezes, the ice can build-up and partially or totally block the propane supply. There are a number of things you can do to prevent this freeze up.

- Be sure the propane tank is totally moisture-free before it is filled.
- Be sure the tank is not overfilled. This is also a safety consideration.
- Keep the valves on empty tanks closed.
- Have the gas tanks purged by the propane service station if freeze-up occurs.
- 5. Have the propane service station inject an approved antifreeze or de-icer into the tank(s).
- 6. Be sure you have the proper propane blend for your traveling area. If you have the proper propane blend, it is very unlikely that the propane is at fault.

If, despite precautions, you do experience freeze-up, try melting the ice by warming the regulator with a cloth soaked in warm water if available or regular tap water. DO NOT USE AN OPEN FLAME. If the problem persists, ask your propane supplier to service the tank or regulator as required.

PROPANE LEAK DETECTOR



Refer to the section on Fire and Safety, pg. 32 on the operation of the LPG Leak Detector.

EXTERIOR PROPANE CONNECTION



Your camper is equipped with an exterior propane connector. This connector allows for the attachment of a portable barbeque that can use the camper's propane. This connection is for a "low-pressure appliance". Regular portable BBQ's are not designed for low-pressure use. Some portable BBQ's can be converted to low-pressure by changing the propane valve to a low-pressure valve. Lance Camper offers two low-pressure propane BBQ's, which are available through your Lance Dealer.

6617235452

This page intentionally blank.

APPLIANCES

Follow the operating and maintenance instructions supplied by the appliance manufacturer for safe and dependable use. The following information is supplied as only a supplement to that provided with each appliance. If you have a problem, see your local Lance service center or call the appliance manufacturer listed in the back of this manual.

LIGHTING PROPANE APPLIANCES

NOTE: New propane tanks or empty tanks that have been sitting with the valve open for a period of time must be purged of air and moisture prior to filling.

Air trapped in the propane lines may delay the initial lighting of any appliance. It could take several seconds or minutes for the propane to reach the appliance. To purge some of the air from the propane system, first light a burner on the range. The other appliances will then light more quickly.

The first time the furnace or oven is operated, paints and oils used in manufacturing may generate some smoke and fumes. If this occurs, open doors and windows to air out the camper. These materials should burn off in a short time. Always follow the appliance manufacturer's lighting and operating instructions.

REFRIGERATOR

The refrigerator operates on 12-volt DC power, 120volt AC power and propane. The operating instructions supplied in the Owner's Information Package will help you with detailed information from the manufacturer.

The recreational vehicle propane type refrigerator operates on the "absorption" principle and therefore must be reasonably level. When your camper is stationary, it should be leveled for comfortable living. If you can occupy the camper comfortably, the refrigerator unit should perform well. If the refrigerator unit is not "close to level", it may not function properly and your food will not be adequately cooled.

When the RV is in motion, the continuous movement will not affect operation. The operating instructions are printed inside near the controls and may be found in the manufacturer's instructions manual.

OPERATING TIPS

Operate the refrigerator on 120-volts for 8 to 12 hours (overnight) before you leave on a trip. This will allow the refrigerator and freezer to get cold and even have some ice ready.

Pre-cool food and drinks before putting them into the camper refrigerator.

For off-truck use, some refrigerator models must have 12-volt battery hookup to power the electronic controls.

Refer to the supplied appliance manuals for proper operating instructions.

RANGE-OVEN

The gas burners and oven use propane gas for fuel. Operation is similar to the range in your home. However, cook temperatures will vary from home ranges depending on the altitude.

Your range is equipped with a spark igniter for lighting the top burners.

The three (3) burner range is equipped with one (front) high output burner when additional heat is needed.

All propane ovens are equipped with a pilot light that must be lit before using the oven. Be sure to turn OFF the pilot when the oven is not needed or before traveling or refueling. For additional information, please refer to the operating manual supplied in your Owner's Information Package.

Before turning on the main propane supply, be sure all burner and oven control knobs are in the "OFF" position.

It is not safe to use cooking appliances for comfort heating. Do not use open flames to warm the living area.

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

- Open overhead vent or turn on exhaust fan.
- Open window.

The warning label above has been located in the cooking area to remind you to provide an adequate supply of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) will avoid danger 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.

Never use portable fuel-burning equipment, including wood and charcoal grills and stoves inside the vehicle because a fire or explosion may result.

CONVECTION OR MICROWAVE OVEN

Please read all instructions that come with the convection or microwave oven before use. The oven should never be operated empty.

When operating on your generator (if equipped) power is limited. If the roof air conditioner is operating there may not be enough power to operate the microwave. Turn the air conditioner control to "fan only" setting to use microwave.

AUTOMATIC IGNITION WATER HEATER

Your camper is equipped with a fully electronic water heater, which has no pilot light, simply turn ON the water heater switch located on the monitor panel. The water heater will cycle on and off as needed. If the water heater fails to ignite, a red light on the panel will appear. Check to make sure you have adequate gas and battery supply. Move switch off and back on again.

6617235452

Do not operate the water heater until it is filled with water. Turn on the hot water at the galley sink, and when water flows continuously the heater is full. Occasionally you may experience "weeping" of the pressure/temperature relief valve. This is normal operation. It is caused by the normal expansion of the water while being heated. The tank is designed with an internal air gap at the top to reduce this weeping phenomenon. In time, though, the heating and expansion of the water will absorb this air. To replace the air and reduce relief valve weeping:

Wait until the water in the heater tank is cool before

- performing the following steps.

 1. Turn off the water heater.
- 2. Turn off incoming water supply.
- Open a faucet in the camper.
- 4 Pull the handle of the relief valve straight out and let water flow until its stops.
- Release the relief valve handle and let the valve snap shut.
- Turn on the water supply.
- Close the faucet when water flows continuously without sputtering.
- 8 Turn on the water heater.

These procedures will re-establish the air pocket at the top of the tank. If the relief valve weeps again, repeat the above procedure.

CAUTION: Do not plug the pressure-temperature relief valve under any circumstances.

If the water heater will be "out of service" for some time, it should be drained. See "Storage" chapter for more information.

When using hot water faucets in the camper for the first time after heating water, open the valve slowly to reduce water splattering from pressure build-up

FORCED AIR FURNACE (Automatic Ignition)
The furnace is a forced air unit fueled by propane and electronically powered by 12-volts. A wall-mounted thermostat similar to those used in homes controls it. To start the furnace, set thermostat switch to the ON position and set desired temperature. The furnace will

cycle on and off as needed. To stop the furnace, set the thermostat to lowest setting and the Off position. If your furnace does not operate properly, check the battery condition and propane supply.



CAUTION: The furnace will not operate properly if your stored personal items block the free flow of air at the registers or return air to the furnace.

The operating manual included in your Owner's Information Package contains detailed operating and maintenance instructions.

During the initial lighting of a furnace, smoke and fumes may be created as a result of the burning off of manufacturing compounds. This is normal, however, the initial lighting should be done with windows and doors open and should be of adequate duration to completely burn off residue.

Portable propane appliances are not safe for heating inside the camper. Asphyxiation or carbon monoxide poisoning can occur.

ROOF MOUNTED AIR CONDITIONER



The roof-mounted Hi-efficiency Power Saver Air Conditioner operates on 120-volt power, which is supplied through the 30-amp power cord, either from an outside 120-volt power service or by the onboard generator, if equipped. The factory installed air conditioner is a high efficiency, power saver unit that has been matched to the capacity of the generator (if equipped).

The air conditioner will provide cooled air for your comfort. However, it is the largest single load of electrical usage. It is important to manage your electrical usage when you have either an air conditioner or microwave oven installed or both.

- Be sure air conditioner is OFF before connecting electricity.
- When the air conditioner has been shut down, wait at least five minutes before restarting.

Do not operate without a filter installed.

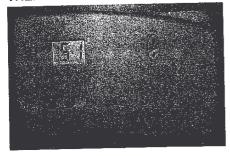
Helpful Notes for Using the Air Conditioner

Keep window curtains closed.
Use kitchen vent fan when cooking.
Air conditioning removes moisture from the air and it is normal to have water discharge off the roof.

Experience has shown that some RV parks may experience reduced power (low voltage) on days with high heat or humidity, commonly referred to as a "brown out". This condition may result in the air conditioner circuit breaker tripping in your power distribution center. This protects your air conditioner motor from damage and is necessary during low voltage conditions. This breaker tripping is sometimes perceived as a fault in your camper, but it is a necessary "safety valve".

If your camper did not come with an air conditioner and you have a generator and you decide to add an air conditioner to your camper, Lance recommends that you consult your Lance dealer for specific models of power saver, easy start units. Lance recommends that you have your dealer install the air conditioner unit on your camper for the best fit and leak prevention

COMBINATION FURNACE/AIR CONDITIONER THERMOSTAT



The wall-mounted combination thermostat will operate either the furnace or air conditioner from one location.

The operating instructions included in your Owner's Information Package contain detailed operating and maintenance instructions.

Operating the air conditioner on the optional generator will use most of the electrical power available. Energy management is important when the air conditioner is operating. Care must be taken when turning on too many other 120-volt appliances. Experience will provide knowledge of how to operate the campers' electrical system the best.

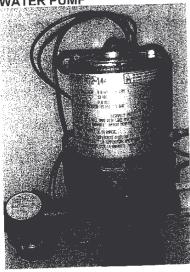
This page intentionally blank.

FRESH WATER SYSTEM

Your Camper is outfitted with a system designed to provide fresh (potable) water service from an onboard water tank or a city water connection with a fresh water tank fill located on the roadside of the camper.

When connecting to the city water hookup, use only a non-toxic water hose, available at most RV supply stores. Since water pressures at campgrounds and household hookups vary, you should install an inline pressure regulator at the water supply faucet. This will protect both the camper water system and supply hose from excessively high water pressure.





CAUTION: The pump is not equipped with a dry tank shut-off switch. Turn the pump switch OFF if water in tank becomes depleted or when system is not in use The pump operates when water pressure within outlet plumbing drops below a predetermined pressure. A drop in pressure occurs when a faucet or a toilet valve is opened. When the faucet is closed the pump shuts off as soon as the system is re-pressurized.

Turn the pump ON to pressurize the water system. When the faucet is opened, the water may sputter for a few seconds. This is normal and no cause for alarm. The water flow will become steady when all air is bled from the water lines. If a faucet is open slightly, allowing water to flow slowly, the pump may pressurize the plumbing faster than the water is released, causing the pump to cycle on and off.

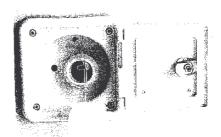
A built-in check valve prevents back flow and protects the pump and fresh water tank from excessive city water system pressures. The pump operates at 2.8 GPM and 45 PSI. At free flow the pump draws

approximately 4 amps. A fuse in the power center protects the water pump circuit.

When traveling, always turn OFF the water pump. This will reduce the possibility of water flowing during travel. If the pump cycles on and off when no water is being used, you may have a partly open faucet, a leak in the water system or an empty water tank.

Never attempt to service the pump without first turning off the power and opening all faucets to relieve pressure in the water system. Consult the installation and operation manual for full details in the Owner's Information Package.

WATER TANK FILL



The fresh water system should be sanitized at the initial filling, after a period of storage or if contaminated. See "Sanitize Fresh Water System" in this section.

Fill tank slowly. Do not overfill. Do not leave unattended while filling. Structure damage may occur.

Filling the fresh water tank:

- Close water tank drain petcock located at the rear or rear side of the camper.
- Remove cap on fresh water fill inlet.
- Using a 3/8" hose adapter, fill the water tank through the exterior fill spout slowly at a low volume until water overflows out the vent. Do not force water into spout since air in the tank must be released during filling. Do not put the potable water hose into the mouth of the fill.



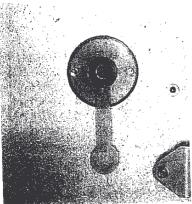
3/8" Plastic Hose Adapter For Filling Water Tank

- Set pump control switch to ON.
- Open each faucet one by one until water flows evenly, and no air bubbles are evident.
- Top off water tank through the exterior fill spout to replace water used in filling the water heater and purging the water lines of air.

7. Replace cap and lock the access door.

6617235452

CITY WATER CONNECTION



The city water inlet connection is located under the roadside overhang.

It's a good idea to purchase a pressure regulator to protect your camper from possible damage due to excessive water pressure.

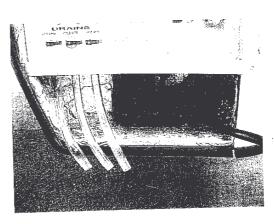
To supply city water to your camper's water system and bypass the water pump:

- 1. Attach a potable water hose to the exterior city water inlet connection.
- Pump switch should remain in OFF position.
- Open each faucet until water flows evenly.

WATER SYSTEM DRAIN

The water system should be drained if it will be out of service for more than one week. This will prevent algae and bacteria contamination of your fresh water system. To drain your camper:

- The camper should be level and pump control switch in OFF position.
- 2. Open all faucets and showerhead.
- 3. Open water tank drain valve.
- 4. Open water line low point drains usually located in or under shower area.
- Open water heater drain and relief valves. (See Winterization and Storage section for more information.)



SANITIZING FRESH WATER SYSTEM

Sanitize the fresh water system and piping at initial use, at least once a year and whenever the camper sits for a prolonged period. This will help keep the tank and lines fresh and will discourage the growth of bacteria and other organisms that can contaminate the water supply. Rinse the tank with a chlorine/fresh water solution as follow:

- 1. Drain water system. (See Drain Water System above).
- Prepare a chlorine solution with one gallon of water and 1/4 cup household bleach.
- 3. Pour one gallon of solution for each 15 gallons of tank capacity into fill spout.
- 4. Fill tank with fresh water.
- Open each faucet and water heater relief valve until water flows evenly.
- 6. Set pump switch to OFF.
- 7. Allow solution to stand for 3 hours.
- Drain and flush with fresh water.
- To remove any chlorine taste or odor, fill tank with one-quart vinegar to 5 gallons water. Allow solution to remain in tank several days if possible.
- 10. Drain and flush with fresh water.

WARNING

POTABLE WATER ONLY. SANITIZE, FLUSH AND DRAIN BEFORE USING. SEE INSTRUCTION MANUAL. FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.

WATER FILTER



An in-line water filter attached to the inlet side of the water pump filters dirt, mineral scale, or organic matter out of the fresh water system. If you suspect a clogged filter, it is easily removed and cleaned.

6617235452

Loosen the clamp at the inlet end of the filter. Pull the water hose off the filter. Unscrew the filter from the water pump. Turn each end of the filter and pull apart. Flush out and clean screen.

- Reverse procedure to install and check for leaks.
- Inspect the filter after the first 90 days of use, clean it if necessary, and inspect annually thereafter.

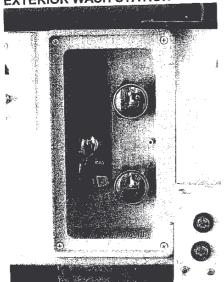
SHOWER

The showerhead is removable for hand-held use and equipped with a water flow control device to allow you to conserve water while showering. After showering, there may be some water discharge at the sink faucet. This water is draining from the shower hose through an anti-siphon valve in the faucet and is normal.

NOTE: For your protection, this faucet is equipped with a vacuum breaker (backflow preventer) to prevent contamination of your potable water supply. The water in the hand-held shower hose will drain through this vacuum breaker when the faucet is turned OFF. This is not a leak. This drainage is inherent in the design of the vacuum breaker, and is evidence that it is functioning.

Due to design precautions, hand held shower heads, when in the "hold" position must have a built-in leak rate of not less than 1 gallon per 30 minutes of time. This leakage is not a defect but is an attempt to reduce the possibility of scalding accidents due to temperature changes from fluctuating water pressure.

EXTERIOR WASH STATION



The exterior wash station is located in the service center on the roadside compartment for exterior use. It uses water from the fresh water tank or when connected to the city water hookup. The showerhead is equipped with a flow control to allow you to conserve water. This flow control is not a permanent shut off. After use of the shower, the water must be shut off at control valves or possible damage could occur to the showerhead and/or hose.

For severe weather camping, by-pass valves are provided to shut off the water to the exterior wash station to prevent the system from freezing.

This page intentionally blank.

WASTE SYSTEM

The waste holding system in your camper is made up of sinks, shower, toilet plumbing drain and vent lines, "gray water" holding tank, and "black water" holding tank. The holding tanks make the system completely self-contained and allow you to dispose of wastewater at your convenience. A flexible sewer hose is supplied to connect the holding tank outlet to the inlet of an approved wastewater dump station or sewer system.

6617235452

The holding tanks are made of seamless plastic that will not corrode. On most units with dual tanks, one retains toilet waste and the other retains liquid waste from the sinks and shower. Drain all wastes at an approved site.

INSULATED AND HEATED WASTE HOLDING **TANKS**

To help keep the waste tanks and dump valves from freezing when using in below freezing temperatures, an insulated cover is installed to enclose the waste tanks and valves. When the furnace is in operation, warm air is discharged into the compartment.

NOTE: In extremely cold weather, non-toxic antifreeze should be added to both tank contents to provide the maximum protection.

FRESH WATER FLUSH TOILET

Your camper is equipped with a marine-type recreational vehicle toilet. This toilet is especially designed to operate with a minimum of water usage. The flushing mechanism, a hand-operated lever, allows a valve in the bottom of the bowl to open, permitting the contents to be flushed into the holding tank below. A stream of water under pressure from the camper's water system swirls around the bowl, cleaning and flushing the contents. Most models have two levers, each working independently of the other so the bowl can be filled with water prior to use. For additional information, please refer to the operating manual supplied with the toilet.

NOTE: The toilet requires a water supply for proper use. This can be from either a city water hookup, if available, or from the on board fresh water tank supply. The 12-volt water pump switch must be in the "ON" position when using water from the tank.

BLACK WATER HOLDING TANK

This holding tank must be primed with 2 gallons of water and one odor control chemical package at each initial use. Add more odor control chemical if needed until dumping is required. Refer to the chemical package available at most RV outlets for specific instructions.

DUMPING THE HOLDING TANKS

The holding tanks terminate in a valve arrangement that permits each tank to be dumped separately or together. The valves are called "knife valves". A blade closes the opening in the sewer drain pipes. The blade is connected to an extension handle that is pulled to release the contents of the tank(s).



During self-containment use, the sewer outlet line should be securely capped and valves closed to prevent leakage of waste material on the ground or pavement.

Holding tanks are enclosed sewer systems and as such must be drained into an approved dump station. Both black and gray water holding tanks must be drained and thoroughly rinsed to prevent accumulation of harmful or toxic materials.

Dump the holding tanks only when they are about 2/3 full. If necessary, fill the tanks with water to 2/3 full. This provides sufficient water to ensure complete flushing of waste material into the sewer line. Whenever possible, dump the holding tanks before traveling.

The holding tanks outlet is set up to be used with a removable fitting that locks onto the outlet with a clockwise twist. The sewer drain hose is clamped on this fitting when you need to drain the holding tanks. When you are operating self-contained, or you store the camper, install the protective cap in place of the removable hose.

The sewer (dump) hose is compressed and stored in the camper's hose carrier.

When you want to drain the holding tanks:

- 1. Attach the sewer hose to the dump outlet.
- Extend the hose and insert the hose end into the sewer or dump station inlet, pushing it firmly into the opening to be secure. In some cases, adapters may be necessary between the hose and inlet.
- Arrange the sewer hose so it slopes evenly and is supported to maintain the slope.
- Dump the black water holding tank first. Grasp the handle of the black water knife valve firmly and slide the valve open with a steady pull.

- Allow enough time for the tank to drain completely. Rinse and flush the tank and drain hose through the toilet with a bucket of water or a hose.
- 6. When the tank flow stops, push the handle in to close the valve.
- Pull the handle for the grey water holding tank.
 Repeat steps 4 through 6. This tank is dumped last to aid in flushing the outlet and drain hose.
- 8. Remove the sewer hose and replace the outlet
- 9. Rinse out the sewer hose with fresh water and remove the sewer hose from the dump station.
- 10. Replace sewer or dump station cover(s).
- 11. Store the sewer hose.

NOTE: To facilitate draining, the camper should be slightly higher in the front and raise the passenger side of the camper to drain towards the driver's side.

If you are parked at a site with a sewer hookup, keep the black water knife valve closed to allow the waste level to build up. The outlet will probably clog if you leave the knife valve open continually. Run enough water into the tank to cover the bottom. This will aid the break up of solid wastes. The gray water knife valve may be left open.

HOLDING TANK CARE/ MAINTENANCE

Since holding tanks don't rely on any sophisticated mechanical devices for their operation, they are virtually trouble-free. The most common problem is also an unpleasant one, clogging. You can minimize chances of clogging by keeping the following considerations in mind:

- Keep the black water tank knife valve closed. Be sure to cover the tank bottom with water after dumping.
- Movement while driving will help liquefy the solids.
- Use only toilet tissue formulated for use in septic tank or RV sanitation systems.
- Keep both knife valves closed and locked, and the drain cap tightly in place when using the system on the road.
- Use only cleaners that are approved for use in septic tank or RV sanitation systems.
- Use a special holding tank deodorant chemical approved for septic tank systems in the black and gray water holding tanks. These chemicals aid the breakdown of waste and make the system much more pleasant to use.
- Do not put facial tissue, paper, grease, ethylene glycol-based or other automotive antifreeze, sanitary napkins or household toilet cleaners in the holding tanks.
- Do not put anything solid in either tank that could scratch or puncture the tank.

If the drain system does get clogged:

Use a hand-operated probe to loosen stubborn accumulations.
Seriously clogged P-traps may require

Seriously clogged P-traps may require disassembly. Be careful not to over tighten when reassembling.

Do not use harsh household drain cleaners. Do not use motorized drain augers.

Sometimes the holding tank valve will get clogged. In this case, a hand-operated auger may be necessary. Be ready to close the valve quickly once the clog is cleared. If the seal gets damaged, it must be replaced.

BLACK TANK FLUSH



With the knife valves open, attach a garden hose to the tank flush inlet located on the driver side skirt area. The inlet connects directly to the flushing system to flush your black holding tank. A jet head placed in the tank is designed to spray water in a fan like pattern will give maximum coverage to flush tank and clean probes of the majority of residue. Turn on the water supply to the garden hose and allow the water to run for approximately three minutes to flush tank. Turn off the water supply, disconnect the hose and close the knife valves.

CAUTION Do not use the same hose you use for filling the potable water tank or for the connection to the city water inlet. Use a different hose to insure that you will not contaminate your fresh water supply.

SLIDE-OUT ROOM SYSTEM



The slide-out room uses a rack and pinion mechanism to move the room. The pinion gears are driven by a 12-volt DC electric motor by the camper battery(s). A switch mounted on the wall controls the room movement.

SYSTEM OPERATION

During extension or retraction of the slide-out you may hear some noises that are associated with the electrical motor or mechanical system. These sounds are normal. Some of the slide-out components need a "break-in" period so they can seat properly. After a dozen or so room cycles, these break-in noises should decrease. Please note that some noises associated with the electrical and mechanical systems will always be noticeable during slide-out operation. If very loud noises occur, contact your Lance Dealer.

When the slide-out room is extended outside of the camper, elements such as rain, snow, dirt or other debris may cling to the outside surfaces of the room and could affect the function of the slide-out room. When the room is retracted, material clinging to the exterior surfaces may be brought into the camper. Always check the exterior surfaces of the slide-out room before retracting it. Remove excess water, snow, dirt, or other debris. Ensure that the outside surfaces are as clean and dry as possible.

The seals around the outside of the slide-out are not designed to act as a squeegee. Do not depend on them to remove water.

NORMAL OPERATION

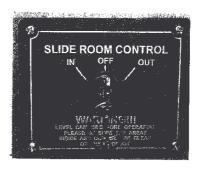
Read and understand this section of the Owner's Manual to avoid injury and/or property damage. Keep people and objects clear of the slide-out room during operation.

The camper must be level before operating the slide-out room.

Remove any obstructions that may restrict the slideout room movement.

Before extending or retracting the slideout room, open a vent, window or door. The operation of the slide-out room can create enough vacuum or pressure to damage windows or doors.

WARNING DO NOT MOVE THE CAMPER WITH THE ROOM EXTENDED.



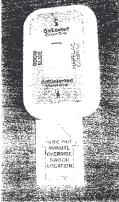
To operate the slide-out room, turn the switch to IN or OUT depending on the position of the room. When the room is fully extended or retracted, release the switch.



There is a thermo limiting circuit breaker built into the controller, which will sense an increased load applied to the motor and will automatically shut off the motor after the room makes contact with the interior or exterior seals. After a few seconds, the breaker will reset itself. If the slide room is in a bind, the circuit breaker will also trip. This will alert you that there is something wrong. Review the steps for proper operation and try moving the room again. If the breaker continues to trip, contact your Lance Dealer.

MANUAL OVERRIDE OPERATION





The slide-out room system can be overridden to extend or retract the room in case there is an electrical power interruption or failure, or other system malfunction. During manual operation of the slideout, the confined working quarters can cause pinch and crush hazards. Ensure that the slide-out path is clear of obstructions in the interior of the camper. If the slide-out room will not move when the switch is engaged, check the following:

The battery is connected and fully charged. The power fuse located in the exterior light fuse box in the cabover step is not blown.

6617235452

There are no other obstructions in the room's path. The camper is level and not in a rack or twisted position.

The override switch is in the "On-Locked" position.

Confirm that the slide-out switch is centered in the OFF position.

Located inside the cabinet where the slideout switch is mounted is a manual over-ride switch. Turning this switch to the Off/Unlocked position will let the electric slide motor turn easier. This will allow you to crank the room in or out. After the room has been extended or retracted, turn the switch back to On/Locked.

WARNING Failure to engage motor could cause slideout room to move during use or in transit.

When fully retracted, engage travel locks and contact you Lance dealer for service, if required. When the motor is disengaged, the slideout room WILL NOT lock in place. It will not be sealed from either the interior or exterior. When the room has been fully retracted, be sure to re-engage the motor to seal and lock the room.

ELECTRICAL SYSTEM MAINTENANCE

Disconnect all power sources before performing any service work on the system. This includes the 120-volt AC power to the converter, the battery and the connection between the camper and the truck.

The slide-out room system requires a minimum battery voltage of 12-volts. Be sure the battery is fully charged for best performance.

Maintain the battery as outlined in the Battery Section under Electrical Systems. Check the terminals and other connections at the battery, fuse panel and the control switch. Be sure the connections are tight, clean, undamaged and corrosion-free.

MECHANICAL MAINTENANCE

The slide-out room mechanism is designed to be virtually maintenance free. During long-term storage, apply a seal dressing such as 303@ Protectant to the slide-out room seals. 303@ Protectant is available at most RV or auto parts supply stores. This dressing will also lubricate the seals and make it easier to extend and retract the slide room.

SYSTEM TROUBLESHOOTING

The camper body, the slide-out room and the slide-out room mechanism make up a slide-out room system. Each needs to function properly with the others. Every

unit has its own characteristics. Symptoms of malfunction may appear to be the same, but troubleshooting and fixing a problem must include a thorough check of all the interrelated components. When something restricts room travel, the drive mechanism is designed to stop. If the room is restricted, the system may put undue pressure on the camper body, slide-out room or mechanism. The room may not seal properly and the obstruction may cause fatigue and premature system failure.

Before troubleshooting the system or contacting an authorized Lance Camper Service Center, make sure the battery is fully charged and there are no obstructions to room movement.

ELECTRICAL TROUBLESHOOTING

There are no field serviceable parts in the motor or control system, therefore electrical troubleshooting and service by the owner is limited to thorough checking of wiring and connections, checking the fuse at the fuse box and proper battery maintenance. Contact your Lance dealer for any other service requirements.

GENERAL MAINTENANCE

This section explains why it is important to keep your camper well maintained, how to preserve the appearance of the exterior and interior and to follow basic maintenance safety precautions. Also included are several things you can do to help prevent corrosion. This section also includes Maintenance Schedules for when service should be performed on your camper and instructions for simple maintenance tasks you may want to take care of yourself. Regularly maintaining your camper is the best way to protect your investment. Proper maintenance is essential to your safety and will also reward you with many years of trouble-free use of your camper.

The Maintenance Schedules specifies how often you should have your camper serviced and what things need attention. It is essential that you have your camper serviced as scheduled to retain its high level of safety and dependability.

EXTERIOR MAINTENANCE

Some exterior parts of your camper are made of fiberglass, metal, rubber and plastic materials. The finish on these parts is durable, but not indestructible. Any material and finish will deteriorate over time. Exposure to sunlight, moisture, and airborne pollutants can chemically alter the composition of the base and finish materials and cause dulling and fading of the finish. Generally, changes in the finish due to weathering are cosmetic. They are on the surface of the part and do not affect its strength.

The best insurance against these effects is routine maintenance. If the finish is not washed thoroughly and waxed, the surface can deteriorate very rapidly. The following guidelines can help you reduce these weathering effects:

Wash the exterior at least once a month using a mild liquid detergent. Never use strong abrasives to clean the exterior surfaces. Wash your camper in a shady area, not in direct sunlight. If the camper is parked in the sun, move it into the shade and let the exterior cool down before you start. Chemical solvents and strong cleaners can damage the siding, roofing, metal and plastic trims on your camper. Rinse the camper thoroughly with cool water to remove loose dirt. Fill a bucket with cool water. Mix in a mild detergent, such as dishwashing liquid or a product made especially for auto or RV washing. Wash the camper using the water and mild detergent solution and a soft-bristle brush. sponge, or soft cloth. Start at the top and work your way down. Rinse frequently. Check the surface for road tar, tree sap, etc. Remove these stains with tar remover or turpentine. Rinse it off immediately so it

does not harm the finish. Remember to re-wax these areas, even if the rest of the camper does not need waxing. When you have washed and rinsed the whole exterior, dry it with a chamois or soft towel. Letting it air-dry will cause dulling and water spots. As you dry your camper, inspect around the seals and repair as necessary.

Wax the exterior at least once a year, preferably twice. Use automotive waxes or cleaners/polishes developed for use on fiberglass boats, showers and tubs. Be sure to follow the directions on the wax container. Some cleaners and waxes are recommended for use on only certain types of surfaces. Exterior streaking is reduced with more frequent waxing.

Do not use abrasive cleaners or rubbing compounds. Always wash and dry the whole camper before waxing it. Rubbing alcohol can be used on caulking that show signs of yellowing.

You should clean your roof at least four (4) times a year. For normal cleaning use a mild liquid detergent and water mixture, or Murphy's Oil Soap™ with a soft nylon brush or sponge. Do not use solid or granulated cleaners, as they will mar the finish. For more difficult stains, use a cloth dampened with mineral spirits. DO NOT use mineral spirits in a large area or allow it to soak into the roof membrane.

AROOF IS SLIPPERY WHEN WET

EXTERIOR GRAPHICS

The pressure sensitive vinyl graphics installed on the exterior surface of your camper require little maintenance and should be treated similarly to a painted surface. The following cleaning and maintenance recommendations should be followed to ensure the maximum appearance and performance of your exterior graphics.

Wash your graphics with the same solution as noted above for washing the exterior of your camper. Be sure to rinse thoroughly.

Test any cleaning solution on a small section of the graphic before using the cleaning solution on a larger surface. A non-abrasive cleaner, suitable for high quality painted surfaces, is recommended. The cleaning solution should be neither high acidic nor highly alkaline; a pH range of 3 to 11 is recommended. The cleaning solution should be free of strong solvents or alcohol. Avoid contact of window cleaners that contain ammonia

It is important to periodically check the exterior for damage. Pay particular attention to the following areas:

- Waste tanks and plumbing lines.
- Propane tanks and assembly.
- Sealant around doors, roof, vents and windows.
- Exterior lighting.

SEALANT RENEWAL

The adhesives and sealants used in the construction of your camper were developed to remain waterproof under sustained effects of weather and vibration. However, even the finest materials will eventually dry out and lose their effectiveness under the constant heat of the sun, attack by other elements and road vibration. This section outlines the procedures that you must follow to maintain the weather-resistant integrity of you camper. Leak damage caused by neglecting to follow these procedures may affect your warranty.

Your dealer can perform the resealing inspection and work for you, and has current information on sealants used in your camper and can recommend the appropriate sealants if you prefer to do this work yourself. Always use the recommended sealants.

To protect your camper from possible water intrusion damage, your unit should be inspected thoroughly and resealed bi-annually. Inspect the sealant around the roof moldings, windows and doors at least every six months. If any of the following are evident during inspection, the affected areas must be resealed: Weathering or drying of sealant. Sealant cracked or peeling. Voids in sealant. Shrunken or separated sealant.

Clean all areas to be resealed with mineral spirits. Make sure that all areas to be resealed are absolutely dry before new sealant is applied.

Mineral spirits is a flammable liquid. Use extreme care when handling. Do not expose to open flame, sparks, or smoking materials. Do not use in unventilated areas.

Check and tighten any loose fasteners. Be careful not to over-tighten, or stripping will occur.

If you find any of the above:

If areas on the roof need to be resealed, remove any loose or cracked sealant being careful not to damage the roof. Use a wooden or plastic scraper that will not

gouge, pierce, or otherwise damage the roof. The roof can be cut or punctured by sharp objects.

Apply the new sealant in a continuous bead along the seams and flanges, being careful not to leave any voids. Apply enough sealant to flow over the heads of all fasteners.

Allow at least 48 hours for the sealant to set completely (firm and tack-free when pushed with the thumb) before washing or waxing the camper.

DOORS AND WINDOWS

Lubricate door hinges, locks and window mechanisms periodically with powdered graphite. Clean window frames and tracks to ensure easy operation. Clean the windows, inside and out, with a commercially available glass cleaner. You can also use a mixture of one part white vinegar to ten parts water. This will remove the haze that builds up on the inside of the windows. Use a soft cloth or paper towels to clean all glass. Clean the seals with a damp cloth or mild detergent every three to six months, taking care not to use strong solvents, as they will damage the seals. A coat of natural silicone lubricant applied after the seal has dried will keep it flexible. This is a good practice for all the rubber seals in your camper. If the camper is exposed to salt air, more frequent lubrication will be required.

JACK BRACKETS

The corner jack brackets need to be inspected each time the camper is to be loaded or removed from the truck. These brackets can loosen and the seals separate during regular use due to rocking, while loading or unloading or while the camper is being stored. Retighten the bolts until they are snug and reseal the brackets as needed. Do not over-tighten as this can cause the fasteners to strip-out.

CAMPER JACKS

The internal parts of the jacks are permanently lubricated at the factory and do not require any further lubrication. At least once each camping season fully extend the jacks and clean dirt and grime from outside of the inner tube. Coat the entire outside of the tube with silicone spray lubricant. This will protect the finish of the inner tube and provide lubrication between the jack's tubes. Clean dirt and automotive polish or wax to the outer tube of the jacks to maintain the appearance.

AIR CONDITIONER

The air conditioner mounting bolts should be checked for tightness after the first 500 miles. Removing the interior shroud and inspecting the four (4) bolts located in the corners of the roof opening accomplishes this.

Aside from securing the air conditioner to the roof, these fasteners apply pressure to the sealing gasket between the air conditioner and the top of the roof. Loose fasteners could cause water intrusion around the roof opening.

TURNBUCKLES

Each time the turnbuckles are installed, and any time they begin to squeak, place a few drops of oil into the turnbuckle barrel at the captive hook end. This will reduce squeaking caused when the turnbuckles dry

It is important that the turnbuckles be kept clean and protected from corrosive agents, such as salt spray, acid rain, etc. This is best done by cleaning and waxing the turnbuckles with a good automotive wax or chrome polish.

OVERHEAD VENTS

The vents can be cleaned from the top of the camper. Use soapy water on the vent cover. The screens may be vacuumed or lightly brushed to remove accumulation of leaves or other debris. Lubricate the gears and mechanism yearly with a light, water resistant grease.

SKYLIGHT

The skylight should be cleaned at least once a year. Rinse the skylight with lukewarm water. Wash with mild soap and lukewarm water using a soft cloth or sponge and gently wash to loosen dirt and grime. DO NOT SCRUB or use brushes or squeegees. Repeat rinse and dry with a soft cloth to prevent water spotting.

EXTERIOR LIGHTS

Check the operation of your camper's exterior lights prior to each trip. This also includes your truck's lighting. A burned out bulb can create an unsafe condition by reducing your ability to signal your intentions to other drivers. When replacing exterior bulbs, take care that the sealant around the light fixture is not disturbed. This can cause a potential water leak. Refer to the bulb replacement chart for the proper replacement bulbs.

WIRING

Make sure the connector-plug prongs and receptacles are clean. Lightly coat all electrical terminal connections with non-conducting (dielectric), light waterproof grease. Clean the prongs with very fine sandpaper, being careful not to damage the contact area.

INTERIOR MAINTENANCE

INTERIOR ODOR

New campers may have a strong odor and even cause eye irritation when closed up in hot weather. This is due to glues used in the cabinetry and paneling. This condition passes with time but in an extreme condition open the entry door and all windows and allow the inside to air out for several hours.

UPHOLSTERY AND DRAPES

Draperies, mattress covers, upholstery and wall pads are manufactured from quality materials and should be dry cleaned only. Some dry cleaning methods will damage vinyl or plastic found on cushions and drapes. Be sure to consult you local cleaners. Frequent vacuuming or light brushes between cleanings will help prevent accumulation of dirt and grime. Use of water based or detergent based cleaners may cause shrinking. Water stains may become permanent. Minor spills should be cleaned up quickly to avoid staining. The affected area should be blotted, not rubbed, to prevent the stain from working deeper into the fabric. On vinyl upholstery, remove dirt and dust with a vacuum cleaner. Wipe the vinyl with a soft cloth and dampen in a solution of mild soap and water. Use the same solution with a soft-bristle brush on more difficult spots. Your can also use commercially-available spray or foam-type vinyl cleaners.

▲ WARNING Do not use lacquer thinner, nail polish remover, carbon tetrachloride, gasoline, or naphtha for any cleaning purpose. These products may cause damage to the material being cleaned, and are highly flammable or poisonous.

WALL AND CEILING PANELS

The paneling and ceiling of your camper may be any of several finishes and textures. Never use harsh detergents or abrasive cleaners on walls or ceilings. Most surfaces will clean with a soft cloth moistened with mild liquid detergent in warm water. Do not use large amounts of water, which could saturate the material.

FLOORS AND CARPETING

Vinyl flooring requires only washing and periodic waxing. Vacuum the carpeting frequently to remove dirt. Ground-in dirt will make the carpet wear our faster. Periodically shampoo the carpet to keep it looking new. Use one of the foam-type carpet cleaners on the market. Follow the instructions that come with the cleaner, applying it with a sponge or soft brush. Keep the carpeting as dry as possible by not adding water to the foam

WOOD PRODUCT CARE

Remove dust with a clean slightly damp cloth. Apply a quality furniture polish and buff with a soft, dry cloth. Never use harsh detergents and solvents.

LAMINATE TOP CARE

Use a mild dishwashing liquid with warm water to clean your laminate tops. Use a soft cloth for both washing and drying. Abrasive cleaners, steel wool or gritty cleaners will damage the surface.

POWER RANGE HOOD

Clean the filter in detergent and hot water periodically and wipe down the surface of the unit with mild soap and water. Use a soft cloth for both washing and drying.

REFRIGERATOR

Clean interior with mild soap and water after each trip. Defrost freezer and empty ice trays. When defrosting, be sure that the drip tray is in place under the finned evaporator - defrost water will be carried through a tube from the drip tray to the bottom of the camper overhang below the refrigerator. Periodically check the drain tube to assure it does not become plugged. Leave the door open after cleaning.

DRAINS

If a stoppage develops in the sink or shower drain, DO NOT use lye or any strong chemicals. Strong chemicals can harm the plastic in your waste system. A standard wire drain cleaner is recommended.

SHOWER CARE

For routine cleaning use a non-abrasive cleaner. Household fiberglass cleaners are recommended. Never use harsh detergents or abrasive cleaners. Never use a razor blade or steel wool to clean the surfaces.

SINK CARE

Do not use abrasive cleaners or scouring powders. Use of abrasive cleaners will dull or damage the surface of this product and could leave scratches. If material gets scratched, easy polishing brings back the original shine. It is recommended you use a gel cleaner or household cleaner made for fiberglass and acrylic.

Do not use scouring pads, steel wool, "scotch brite" type scratch pads, or any other abrasive scrubbers. Wipe only with a soft cloth or sponge.

Always use a cutting board or a sink protector when using knives or sharp objects. It is recommended that you use protective mats, racks, or dishpans to help protect your sink. Always allow pans to cool before setting them in your sink.

MAINTENANCE CHART 1

Service to be performed For details, see respective section.	Start of Each Trip	Before Use At Setup or Weekly	Monthly
Inspect wiring, connector plug & receptacles		,	· resta
Check exterior lighting			
Inspect and tighten mounting bolts on each jack corner bracket. Trim excess putty			
Check that camper anchors are secure			
Check that cabover stabilizers are secure and lubricate	•		
Inspect propane system compartment for leaks and kinked lines			
Test propane leak detector for proper operation			
Inspect generator exhaust muffler and tailpipe clamps (if equipped)			
Check smoke detector operation			
Check carbon monoxide detector operation			
Check fire extinguisher			
Inspect/clean battery cables, terminals and tighten wing nuts			
Check battery charge (in storage)			
Check battery electrolyte (in use)			•
Test GFCI			
Wash exterior			
Inspect water pump filter			
Bleed propane tanks after filling per instruction label on tanks as required			
Inspect TV strap for secure fit and check that TV tray latch is engaged			

MAINTENANCE CHART 2

Service to be performed For details, see respective section.	Every 6 Months	Annualy or After Long Storage
nspect camper jacks and lubricate per manufacturer's recommendations		
nspect roof sealants (required maintenance)		
inspect compartment and access doors, moldings and window sealants (required maintenance)	-	
Inspect all hot, cold and drain plumbing		
Sanitize fresh water tank		
Complete propane pressure check & system check		<u> </u>
Wax exterior		
Clean & lube overhead vents		
Lube locks, hinges and hardware		
Replace smoke detector battery		
Inspect & tighten the air conditioner mounting bolts		
Lubricate TV antenna per manufacturer's recommendations		

Items marked with \square require special equipment and/or qualified personnel.

WINTERIZATION

OPERATING IN FREEZING CONDITIONS

If water freezes inside the system, it can damage piping and equipment.

Keeping the interior warm will aid in preventing water in the storage tank, pump and piping from freezing. Open inside cabinets and allow warm air to circulate over the water system components.

6617235452

Add non-toxic anti-freeze to the holding tank(s). Refer to the instructions that came with the anti-freeze. Install a winter cover on the air conditioner.

Propane for the appliances will work down to 44 degrees below zero (-44°).

The sliding windows have weep holes, which drain water from the window tracks. In heavy rain and wind, water could be blown into the camper through these holes. Put a piece of sponge in the track over the hole to prevent this from occurring.

See "Ventilation and Moisture Control" section for more information.

STORAGE

The following checklists will help you perform the steps necessary to prepare your camper for storage. Use the checklist that applies to the storage conditions you anticipate. These checklists do not include every detail required, and you may want to expand them to suit your needs.

SHORT-TERM STORAGE

(Less than 45 days - Above Freezing)

- 1. Wash the exterior.
- 2. Park the camper as level as possible front to rear and side to side.
- 3. Before disconnecting the battery cables, check the charge in the battery. Recharge as necessary. Clean terminals, top and sides of battery and battery box. Leave the battery disconnected or switch the battery disconnect switch to the "STORE" position.
- 4. Drain the holding tanks, toilet, and fresh water tank. Turn off the water pump and water heater.
- 5. Turn off the propane at tank valve.
- 6. Turn off the refrigerator, furnace, all range and oven burner valves and pilot.
- 7. Remove all perishables from refrigerator and galley cabinets. Leave the refrigerator door open to reduce odor buildup. An open box or tray of baking soda in the refrigerator will help absorb
- 8. Slightly open (1/4") a roof vent.

- 9. Close and lock all windows. Be sure the vent fan and range hood fan switches are off.
- 10. Cap and close the holding tank drain, city water inlet and fresh water fill spout.
- 11. Turn off all radios, TV's, interior and exterior lights.
- 12. Close the mini blinds and day/night shades.
- 13. Disconnect the 120-volt power cord and store in compartment.
- 14. If removing the camper from the truck, see procedure and warnings in the "Loading and Unloading Camper" section.
- 15. Check the camper weekly.

LONG-TERM STORAGE - Above Freezing

- 1. Perform all the preceding short-term storage
- Operate air conditioner periodically to lubricate compressor seals.
- 3. Remove and place the battery in a cool, dry area. Check the battery charge every 30 days. Recharge as necessary.
- 4. Check the sealants around all roof seams, body seams and windows. Reseal if necessary. See "Sealant Renewal" section.
- 5. Prepare the generator (if equipped). See generator Operating Manual included in the Owner's Information Package.
- 6. Remove the smoke detector's battery. Leave the cover open as a reminder to replace the battery.
- 7. Cover exterior vents; water heater, furnace, air conditioner shroud, range hood, refer, to prevent insects and small animals from getting in the camper. Be sure to remove all covering materials before using appliances and vents.

STORAGE BELOW FREEZING

To avoid damage to the plumbing fixtures and other components, we recommend that your camper plumbing systems be properly drained and have antifreeze protection. The following is a procedure checklist you can follow if you prefer to winterize your camper yourself. Many owners prefer to have a Lance Dealer Service Center perform this service.

- 1. Perform all steps in the short and long term storage procedures.
- Drain the fresh water tank by opening the water tank drain and leave open.
- Turn the water pump ON and open all hot and cold water faucets. When the flow of water stops, turn the pump OFF. Open the low point drains on the hot and cold water pipes.
- 4. Drain the water heater by opening the drain plug at the bottom of the heater and open the pressure relief valve.
- 5. Depress the toilet flush pedal or hand-operated lever. Shut OFF all faucets, close the water line

- drain valves, fresh water tank drain valve, water heater drain and pressure relief valve.
- 6. Drain the showerhead and hose by disconnecting the hose at the faucet from the inside and outside shower.
- 7. Drain the waste water system by following the normal procedure for draining the holding tanks. See "Waste System" section.
- Be sure ALL water from ALL plumbing has been drained.

Draining the water system alone will not provide adequate cold weather protection. If the camper is to be unheated during freezing temperatures, consult your dealer for the best winterizing procedure for your climate. Your dealer can supply you with one of the special non-toxic antifreezes that are safe and approved for use in RV water systems. Follow the instructions furnished with the antifreeze.

Do not use automotive or windshield washer antifreeze in the camper water system. These could be harmful if swallowed.

WINTERIZING METHOD



- 1. Make sure the water pump switch is off.
- 2. Insert the hose from the winterizing valve into a container of RV approved non-toxic anti-freeze.
- 3. Turn the water heater bypass valve to Bypass position and drain the water heater by removing the drain plug and opening the safety relief valve. Open faucets to relieve pressure. (Hot and Cold) Open the hot and cold low point drains.
- 4. Drain the water tank by opening the tank drain and leave open to drain completely.
- 5. After the system is completely drained, close all faucets and turn off the low point drain valves.
- Turn the winterize valve to "Winterize" position. 6.
- 7. Turn ON the water pump switch.
- 8. Open the hot water faucet farthest from the water tank. When antifreeze appears, let at least one cup run down the drain to winterize the P-trap. Do the same to all other water outlets, hot and cold, including shower, toilet and outside shower.
- 9. Turn OFF the pump switch.

- 10. Open a water faucet to relieve pressure, and then
- 11. The procedure is complete.

WATER HEATER BYPASS



The water heater bypass valve is located behind the water heater and is used when winterizing the water system for storage. By rotating the lever to the bypass position, antifreeze will not enter the water heater requiring less antifreeze to protect the water system plumbing. Follow the instructions shown on the valve. NOTE: Be sure to drain the water heater by opening the drain plug at the bottom of the heater and open the pressure relief valve.

To De-Winterize:

- 1. First fill the water tank.
- Turn the winterizing valve to normal flow position.
- Turn the water heater bypass valve to "bypass", this will keep antifreeze from entering the water heater.
- Turn ON the water pump switch.
- Open the water faucet farthest from water tank, catching antifreeze in a container for future use, until clear water appears. Shut off the faucet. Do this to all other faucets and the showerhead, including outside shower.
- 6. Turn the water heater bypass valve to normal flow position.
- Open a hot water faucet until water appears.
- 8. Your system is now ready for use.

REACTIVATING CAMPER AFTER STORAGE

The following procedure checklist assumes that you stored the camper with care. If you didn't and extensive freeze damage or other serious deterioration may have occurred, please consult you Lance Dealer Service Center for advise.

OUTSIDE AREA

 Thoroughly inspect the outside of the camper and open all doors and compartments. Check for

animals or insect intrusion, water damage or other deterioration.

6617235452

- 2. Remove all appliance vents, ceiling vent and air conditioner coverings. Be sure all furnace, water heater, and refrigerator openings are clear and free of debris or insect nests, webs, etc.
- 3. Open vents and windows.

12-VOLT SYSTEM

- 1. Prior to the battery installation, check charge level. Refill and recharge as necessary. Inspect cable ends and ensure that terminals are clean and free of corrosion. Place the battery into the compartment, install tiedowns, and connect cables. Turn battery switch to "USE" position. Check battery condition on monitor panel.
- 2. Be sure all 12-volt DC and 120-volt AC circuit breakers are ON.
- 3. Inspect and operate all 12-volt lights and accessories.

FRESH WATER SYSTEM

- 1. If the fresh water system has been winterized, drain the antifreeze from fresh water system.
- Turn the water pump on and open all faucets until flow of antifreeze stops.
- Do not let antifreeze stand on plastic sinks or outside shower components or stains may occur.
- Open the water heater bypass valves.
- 5. Flush and sanitize the fresh water system as outlined in the "Fresh Water System" section.
- 6. Operate all faucets and fixtures in the fresh water system. Check for leaks at all joints and fittings. Repair if necessary.

PROPANE SYSTEM

- 1. Turn on propane valves and inspect all pipes and fittings in the propane system. Check for leaks as outlined in the "Propane System" section.
- 2. Operate each propane appliance. Observe all burners and pilot flames for proper color and size. If there are any problems, refer to an authorized Lance Dealer Service Center.

GENERAL

- 1. Install new 9-volt battery in smoke detector and remote control for electric jacks.
- Check the monitor panel operation.
- 3. Open and operate vents and vent fans.

120-VOLT SYSTEM

- 1. Inspect the 120-volt electrical system power cord, converter, and outlets. If defects are found, refer service to a Lance Dealer Service Center.
- 2. Prepare the AC generator (if equipped) for operation following instructions in the generator

- operating manual in your Owner's Information
- 3. Operate 120-volt AC appliances and air conditioner.

MAINTENANCE

- 1. Check the sealant around all roof, body seams, and windows. Reseal if necessary. See "Sealant Renewal" subsection of the "MAINTENANCE" section.
- 2. Lubricate all exterior locks, hinges and latches.
- 3. Wash and wax the exterior. Inspect the body for scratches or other damage. Touch-up or repair as necessary.

CAMPER LOADING AND CHECKOUT

- 1. Load the camper onto the truck following the procedure in the "LOADING AND UNLOADING" section.
- Check the operation of taillights, turn signals, backup lights, clearance lights, license plate lights, and emergency flashers.

Your camper should now be ready for a new traveling season. If you choose, your dealer can double check your preparation and correct any defects or make any necessary adjustments.

TYPICAL BULBS AND FUSES

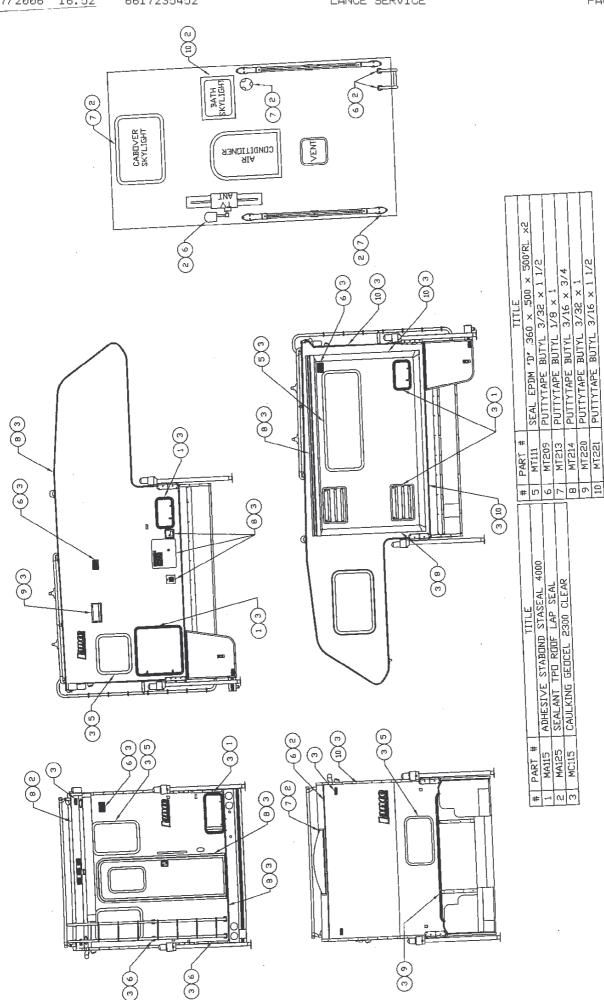
The following is a list of typical 12-volt bulbs and fuses used in your camper. It is wise to keep a couple of spares of each type on hand.

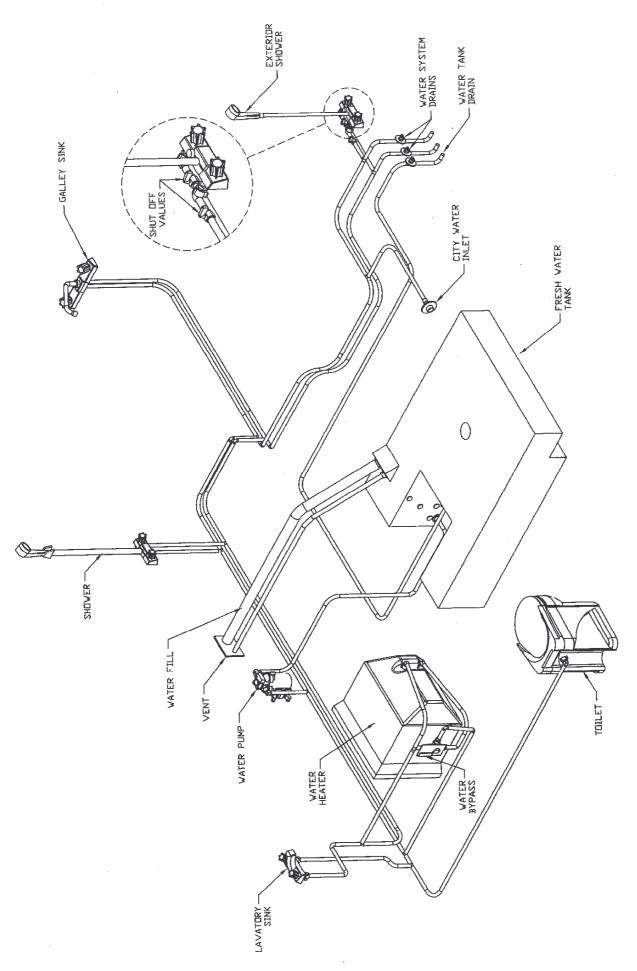
Fuses Blade type (ATC) (ATM)	Amp 1, 3, 7.5, 10, 15, 20 & 30 2
Lights Back-up light Body license light Clearance light Dome light Fluorescent light License plate light Porch Light Reading light Stop/tail light (LED) Stove hood light Wardrobe light Docking Light	Bulb Number Glo-Brite 9547 or equal. # 53 # 194 # 1141 # F15T8-WW # 67 # 1003/93 # JC10W Glo-Brite 9539-88 or equal # 912 # 563 # H3-12V55W

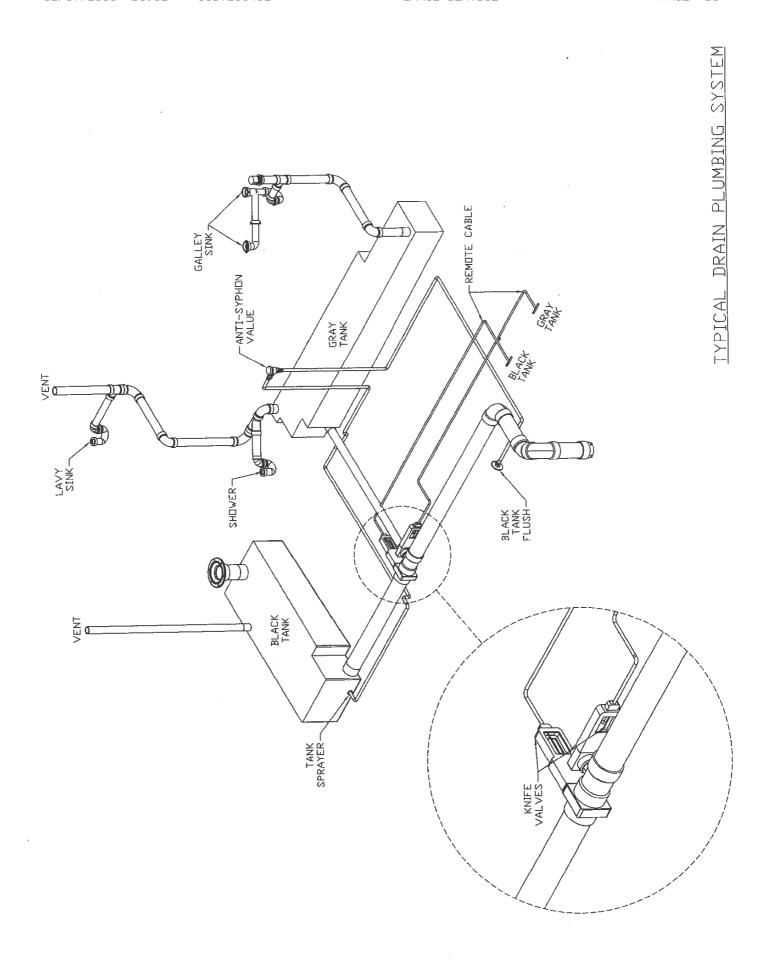
Happy Camping

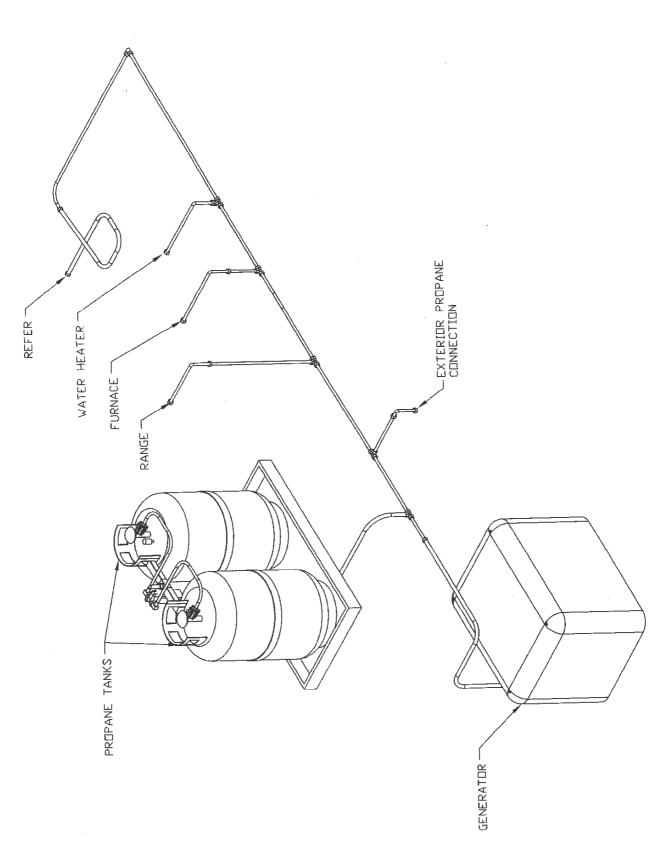
This page intentionally blank.

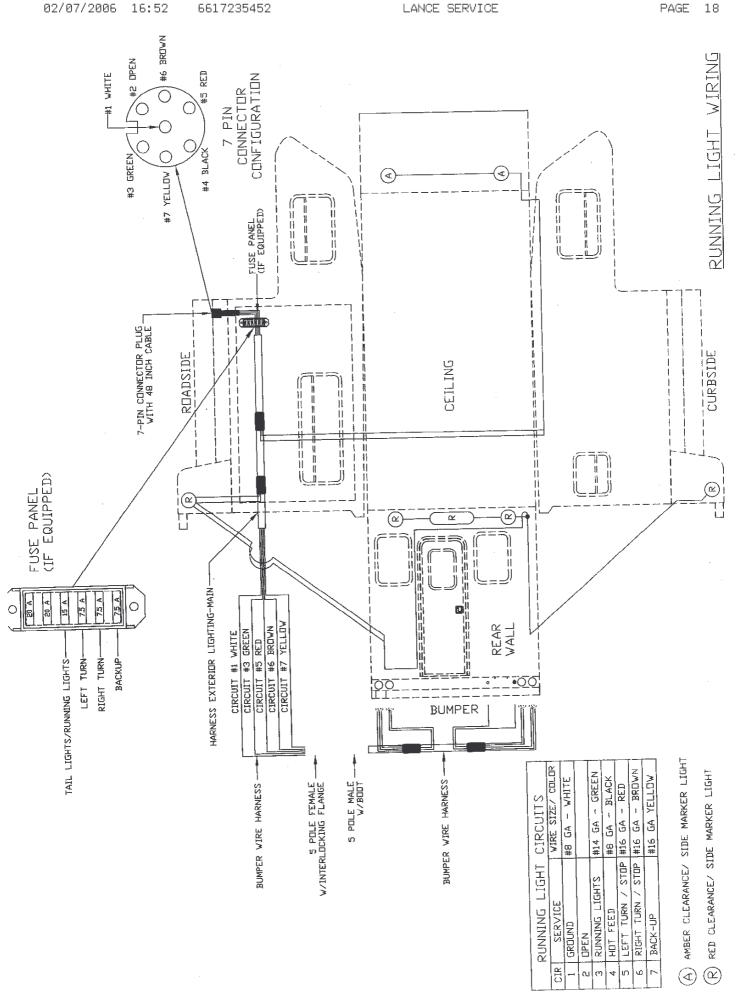
EXTERIOR SEALANT CHART

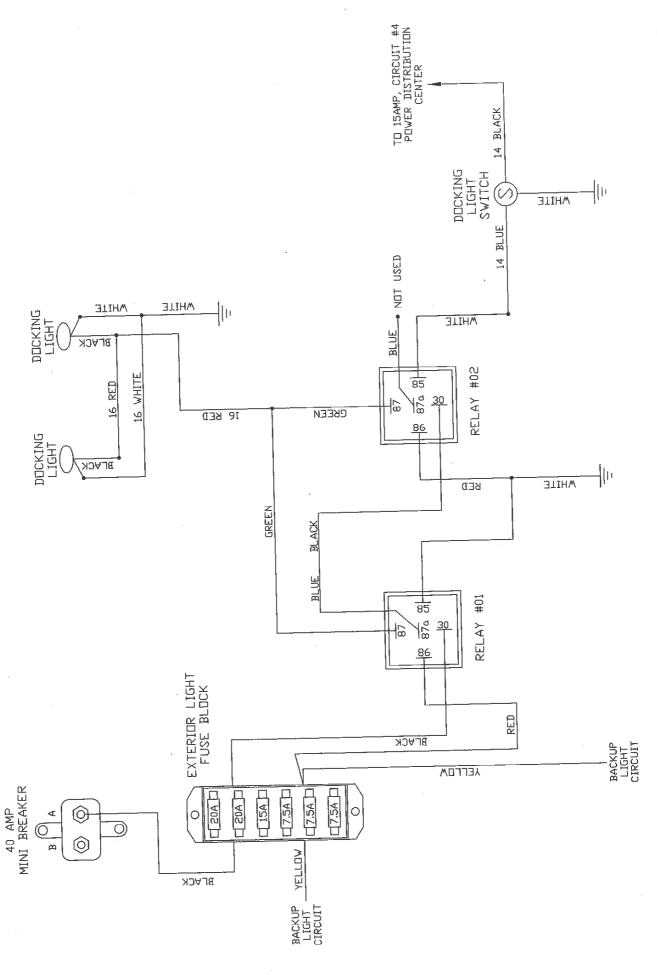


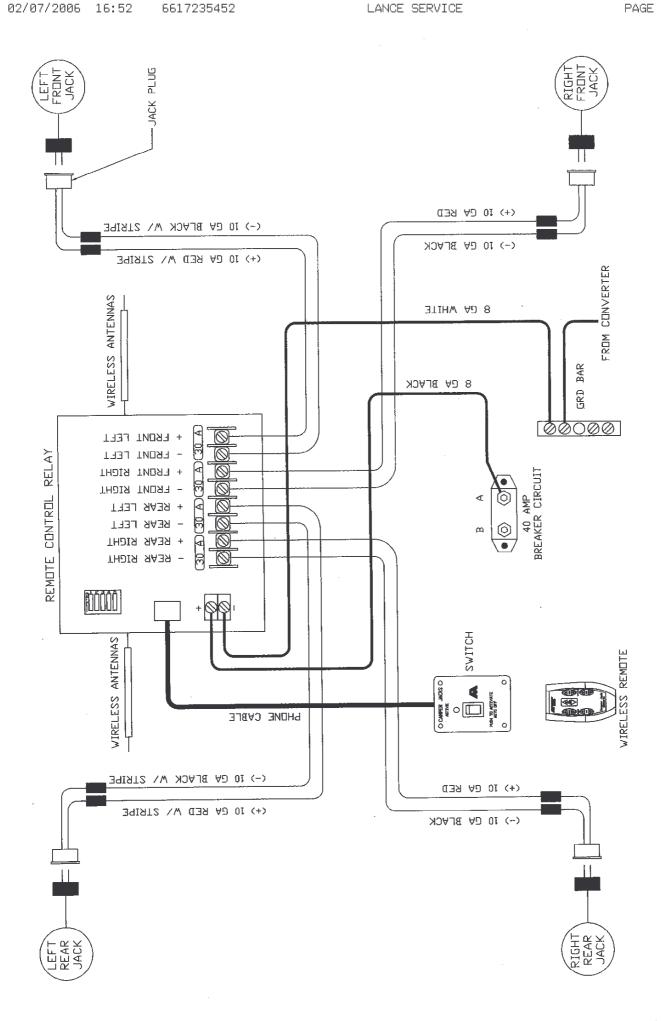


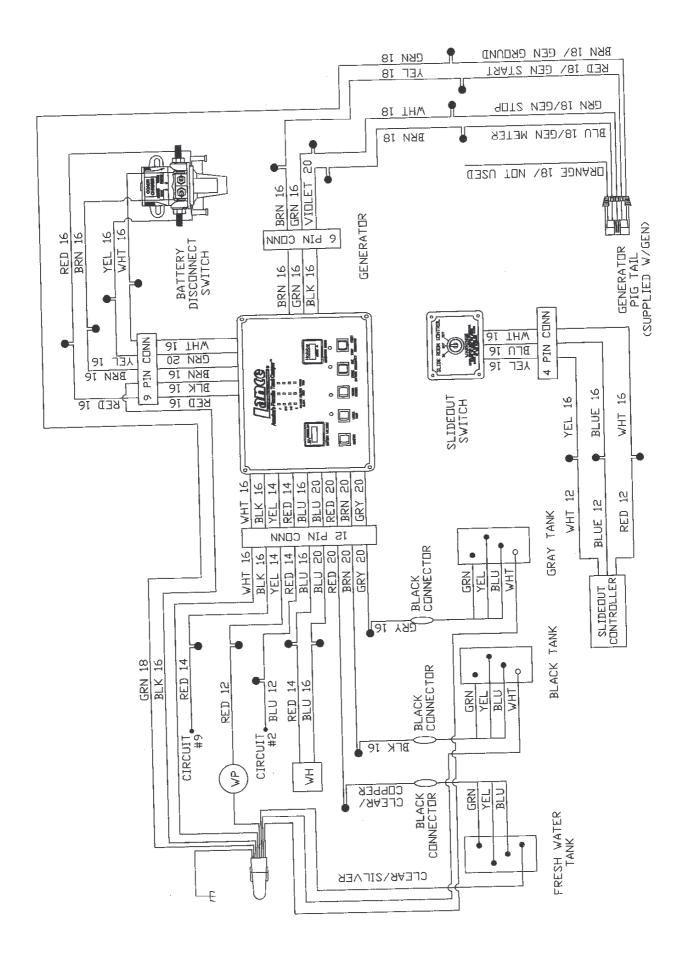


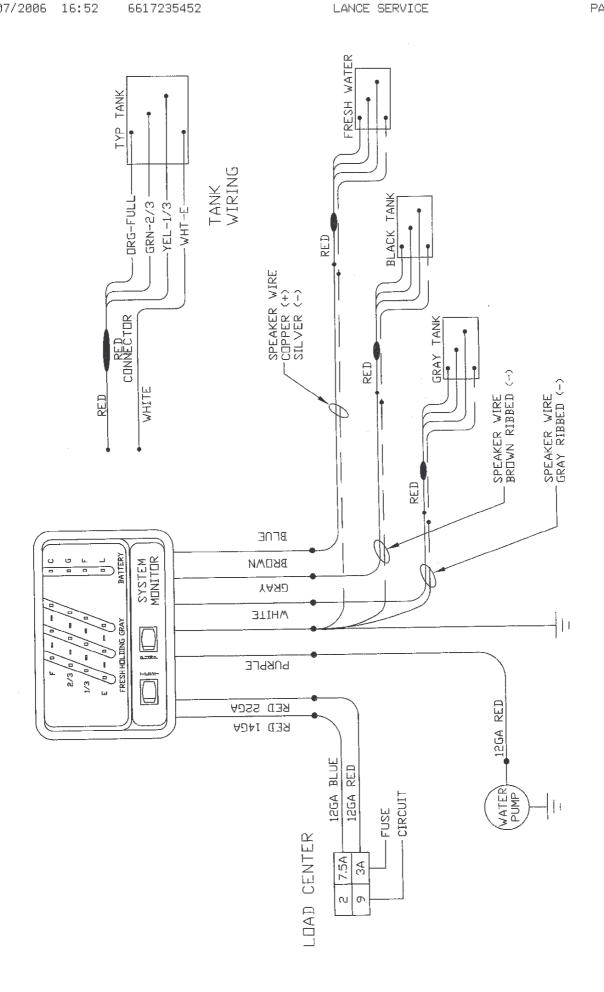


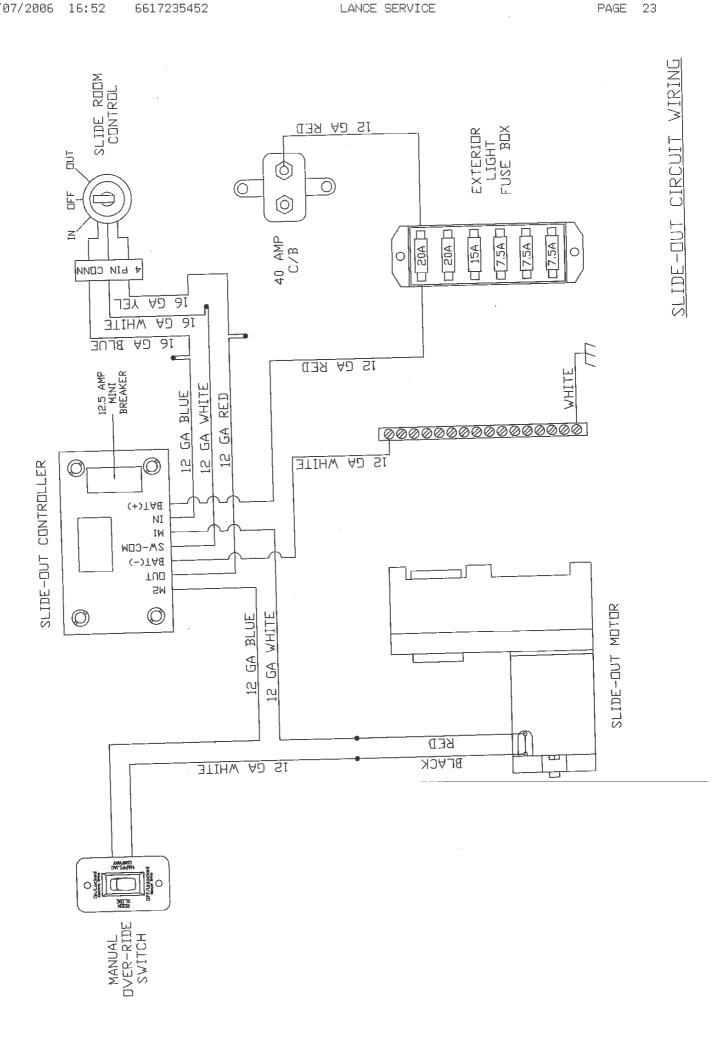


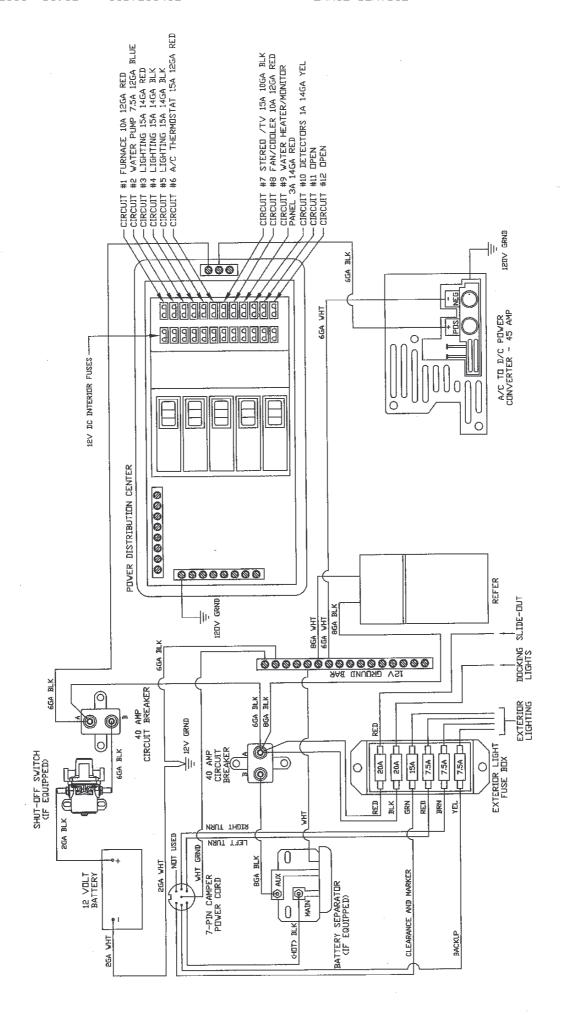


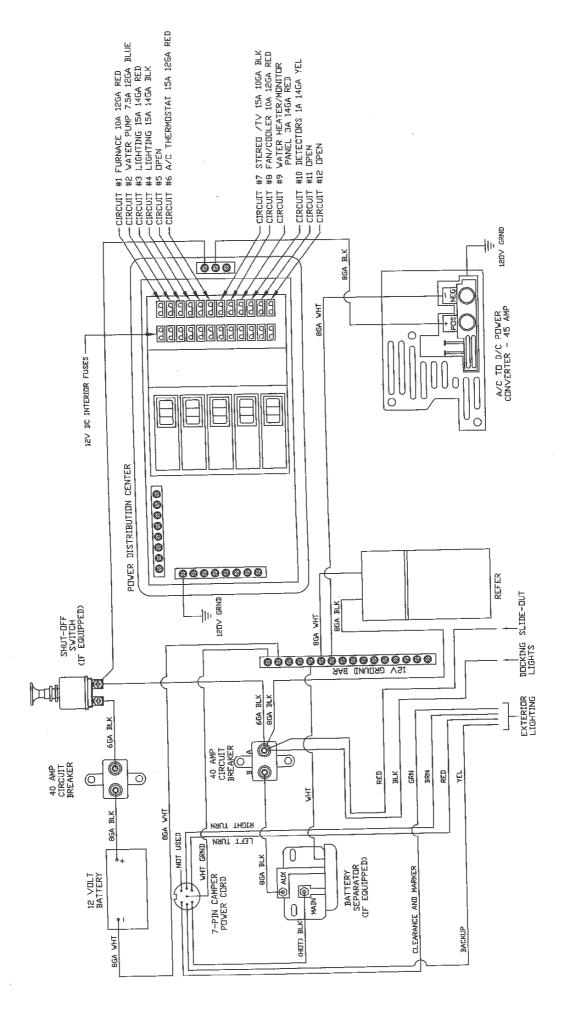


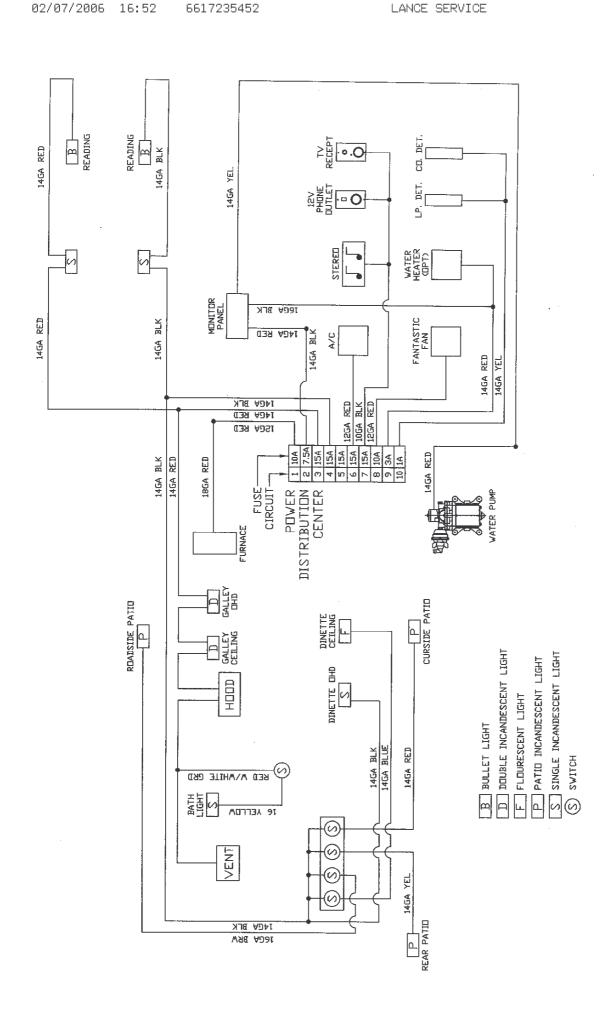


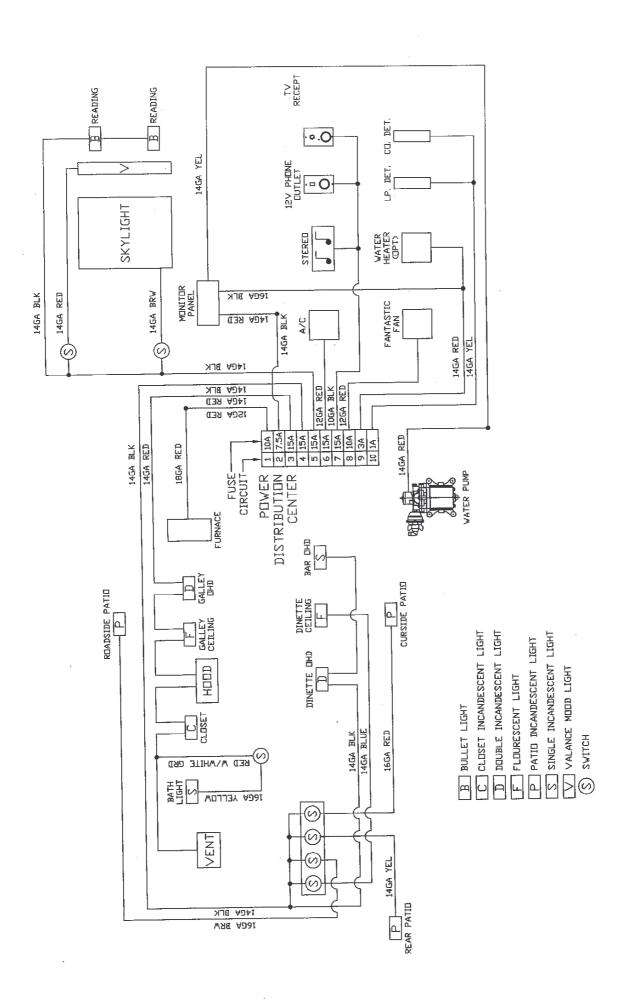


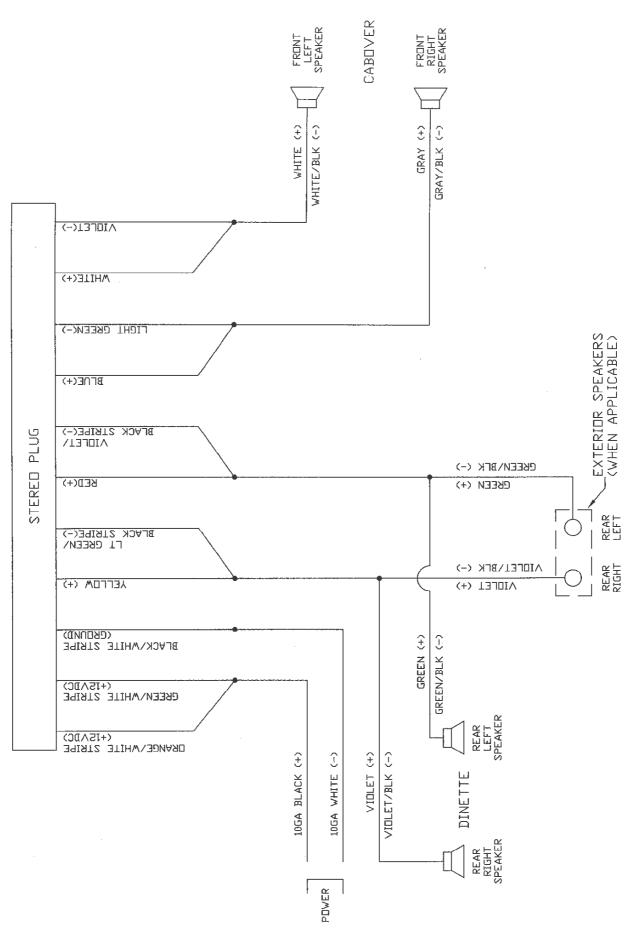


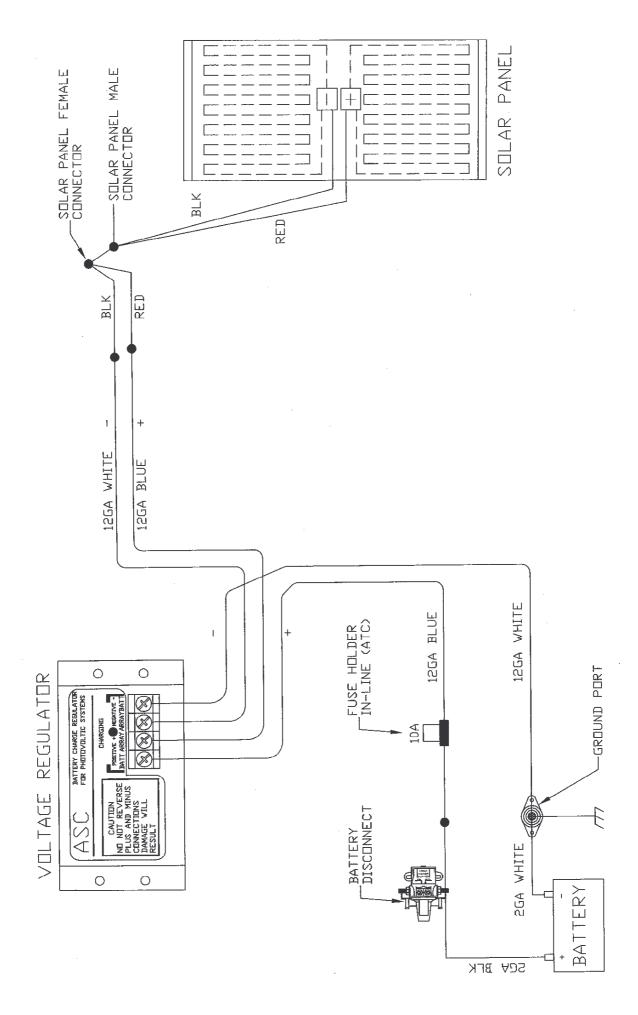


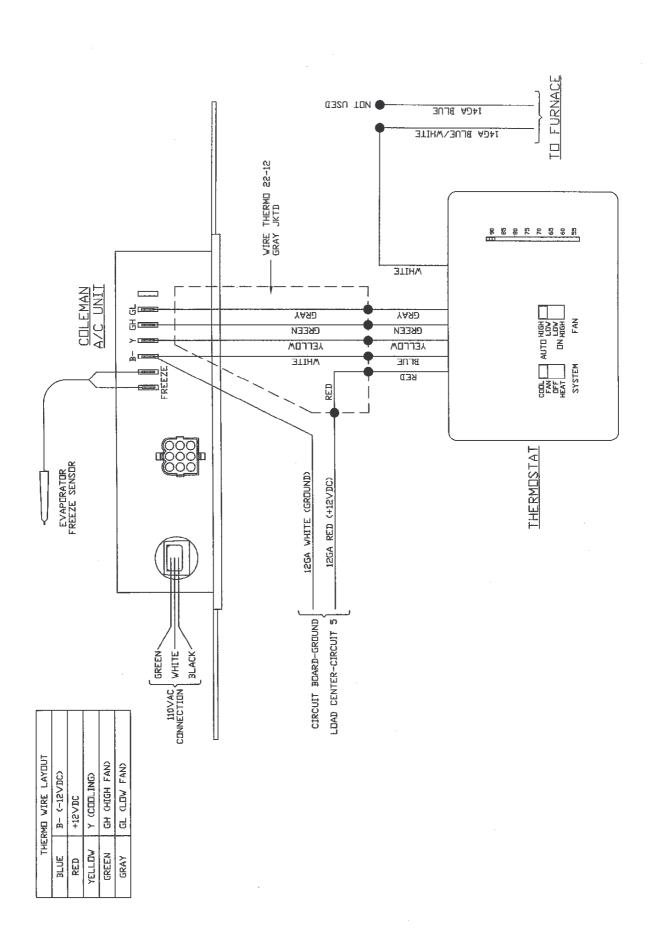


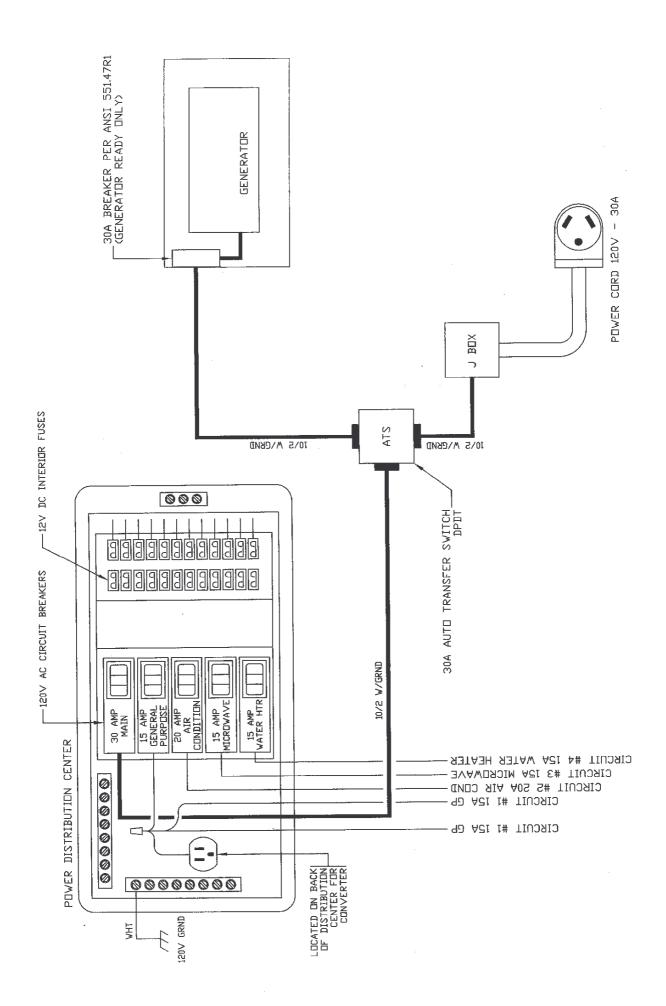


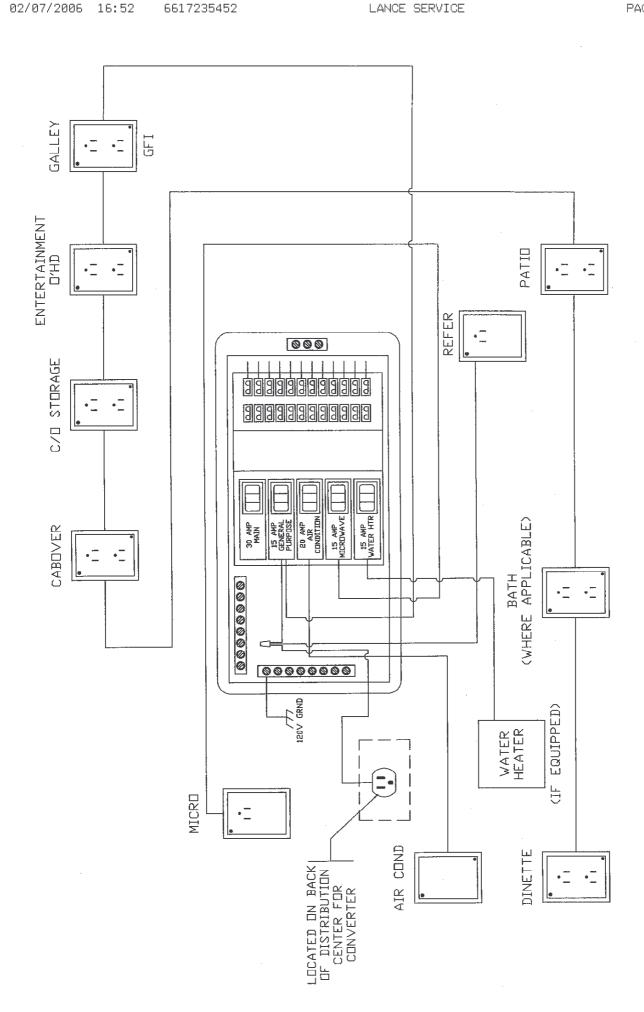


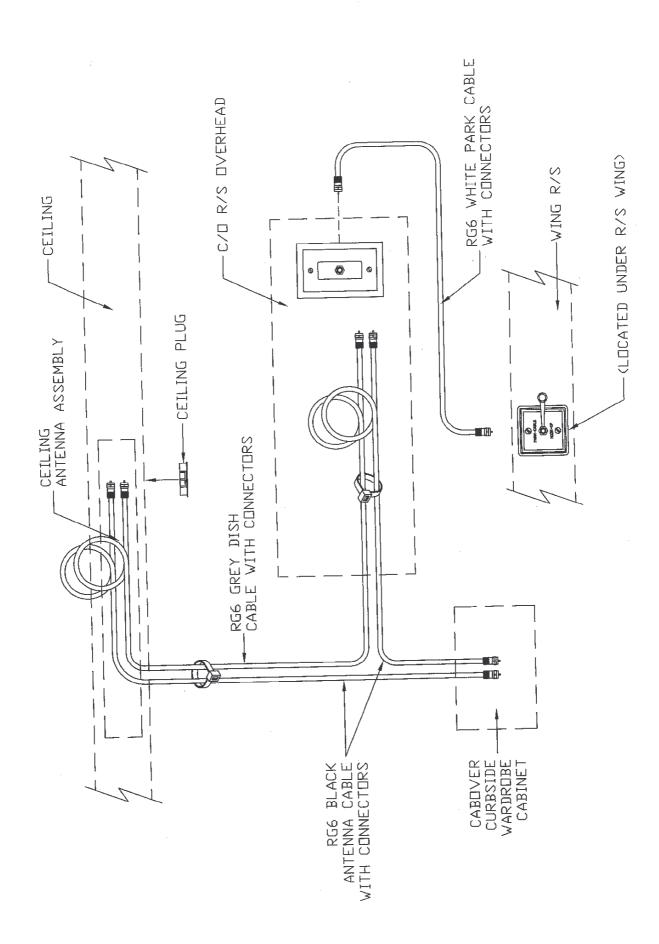


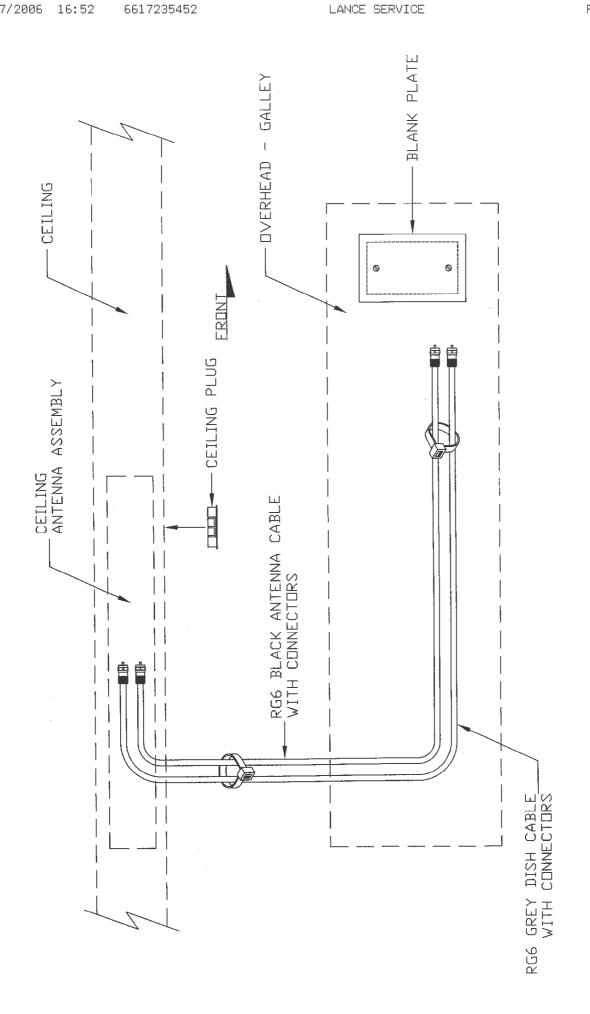


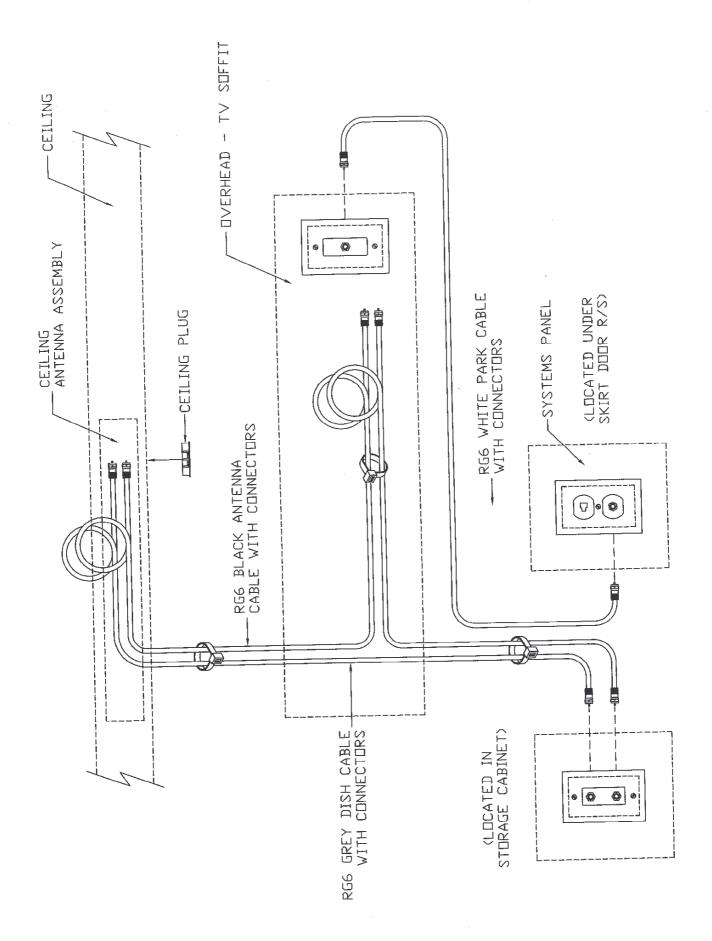


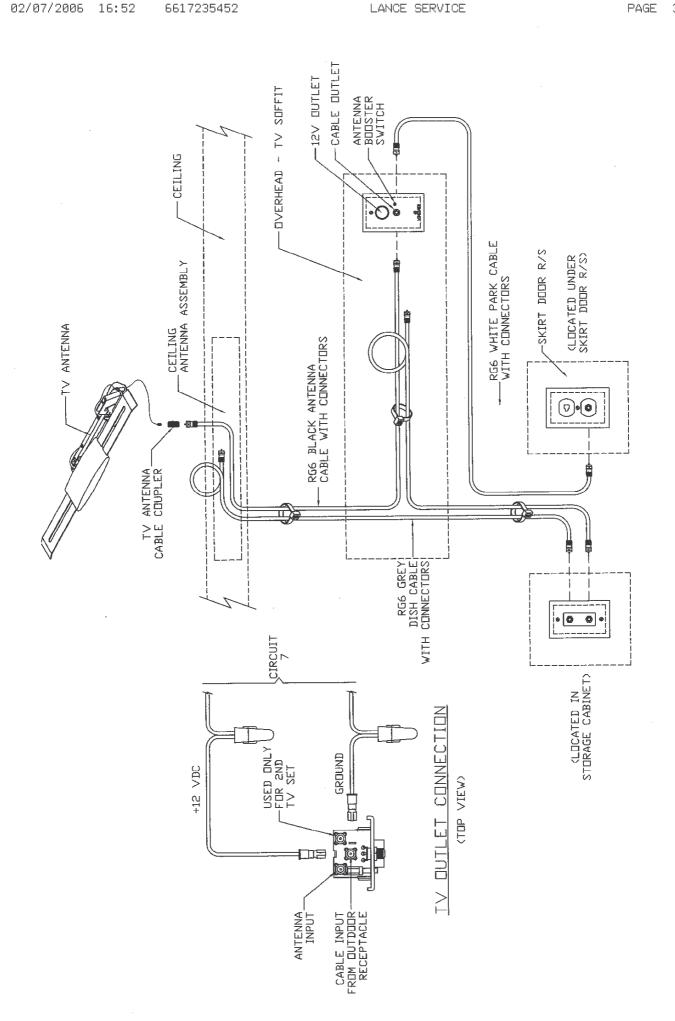


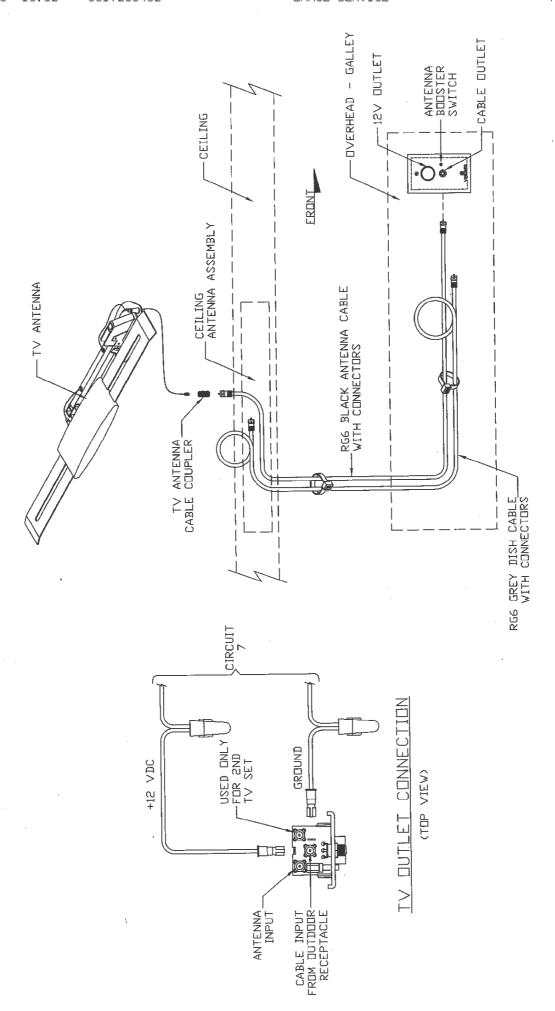




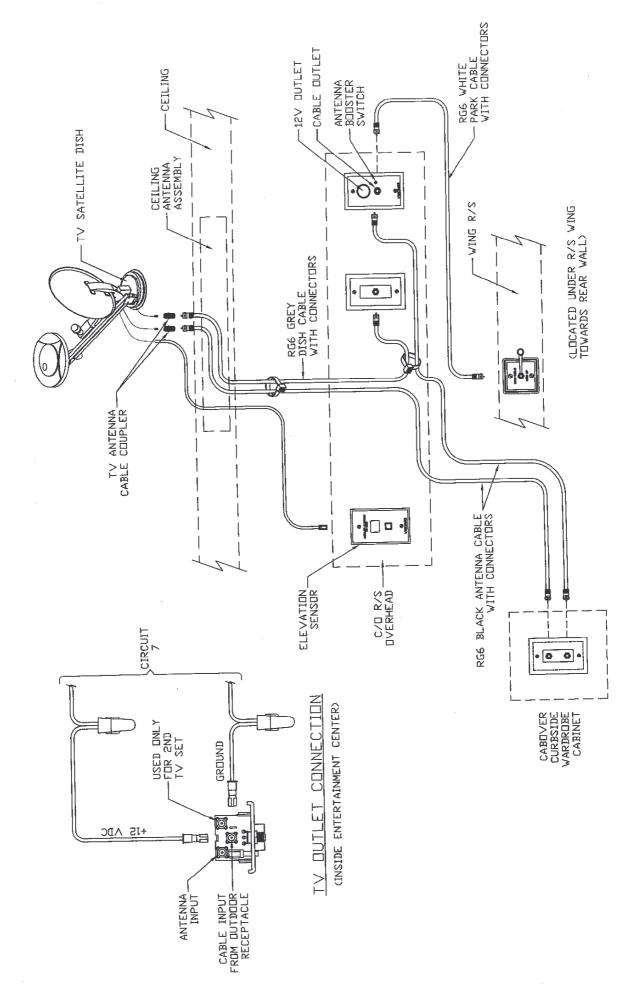




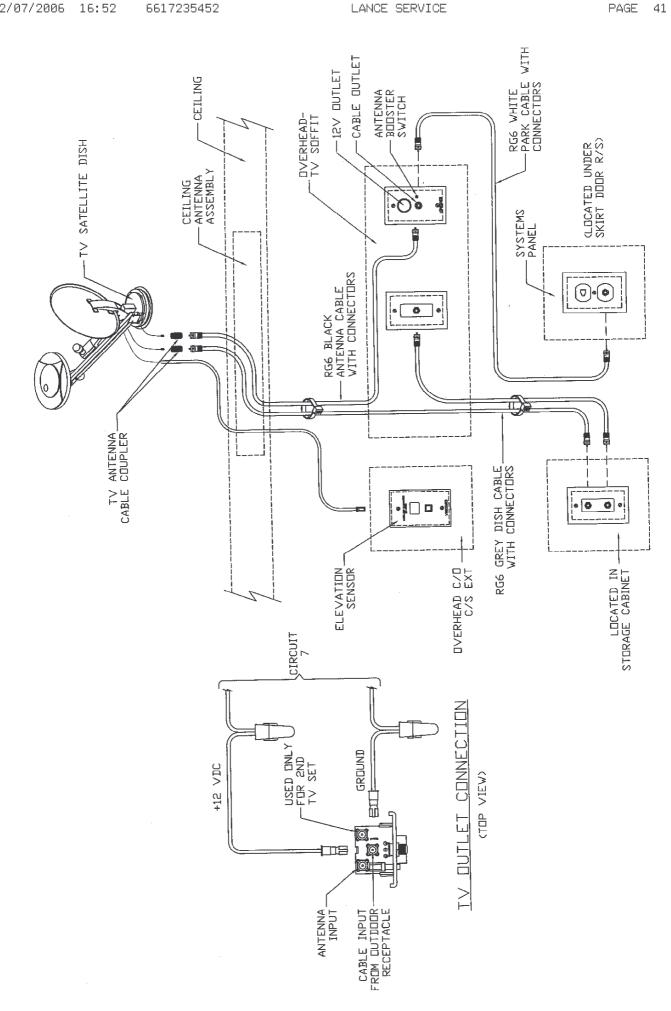


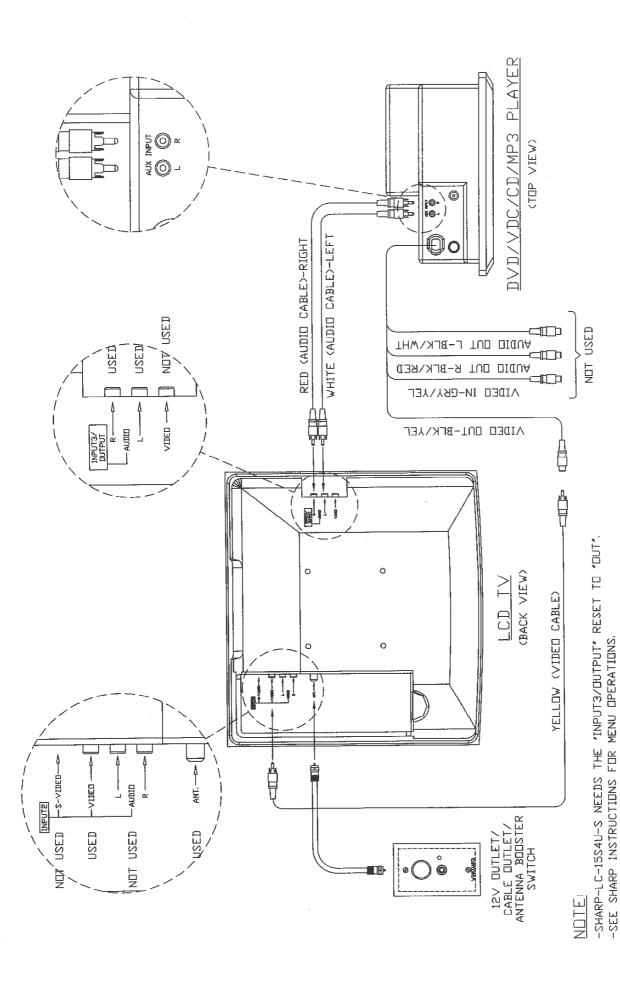


TV ANTENNA WIRING-LANCE



SATELLITE DISH ANTENNA WIRING-LITES





Surpetition Carnor Carno		CURRUED	PHONE	WEB SITE
Lance Service Department Access Doors Air Lift Access Doors Air Lift Air Lif	PRODUCT	SUPPLIER		
Access Doors Air Bags Air Lift Air Air Lift Air Air Lift Air Air Lift Air Air Lift A				•
Air Bags Air Conditioner Awning Backup Camera/Monitor Battery Disconnect Battery Disconnect Battery Separator Camper Cover Carbon Monoxide Detector Circ Controls Brite Extinguisher Furnace Generator Jacks Awood Mobile Products Seria Muttress Muttress Muttress Muttress Muttress Monitor Panel Power Center (Converter) Range (wloven) Range (wloven) Range (wloven) Range Vent Refugleator - Propane Regulator - Propane Regulator - Propane Roofing Roof Ralis/Ladder Roof Rack Roof Vent Roof Vent Roof Vent Scholk Roof Vent Roof Vent Scholk Roof Vent Roof Vent Roof Vent Scholk Roof Vent Roof Ven				
Air Conditioner Awning Backup Camera/Monitor Battery Disconnect Battery Disconnect Battery Disconnect Battery Disconnect Battery Disconnect Battery Separator Campon Monoxide Detector Microwave/Convection Oven Fire Extinguisher Furnace Generator Jacks Propane Detector Propane Tank Mattress Monitor Panel Power Center (Converter) Range (Woven) Range Vent Regulator - Propane Roofing Roof Rack Roof Vent Roof Rack Roof Vent Roof Vent Roof Vent Roof Vent Roof Vent Roof Rack Roof Vent Roof Vent Roof Rack Roof Vent Roof Vent Roof Vent Roof Vent Roof Rack Roof Vent Roof Vent Roof Rack Roof Vent Roof Rack Roof Vent Roof Vent Roof Rack Roof Vent Roof Rack Roof Vent Roof Rack Roof Vent Roof Rack Roof Vent Roof Vent Roof Rack Roof Vent Roof Vent Roof Vent Roof Vent Roof Vent Roof Vent Roof Roof Roof Rock Roof Vent Roof Roof Roof Rock Roof Vent Roof				
Asring Backup Camera/Monitor Battery Disconnect Battery Separator Camper Cover Carbon Monoxide Detector Carbon Monoxide D	Air Conditioner			www.carefreeofcolorado.com
Backup Camera/Montor Battery Disconnect Battery Separator Camper Cover Carbon Monoxide Detector Microwave/Convection Oven Fire Extinguisher Furnace Generator Jacks Propare Detector Propane Detector Molitor Panel Montitor Panel Power Center (Converter) Radio CD/DVD Range (Woven) Range (Woven) Range Went Refrigerator Regulator - Propane Roofing Roof Rails/Ladder Roof Vent Roof Vent Roof Vent Roof Vent Roof Vent Roof Vent Roof Panel Roof Rack Roof Vent Roof Vent Roof Vent Roof Panel Solar Panel Roof Ramel Roof Ramel Roof Rack Roof Vent Roof Vent Roof Rack Roof Vent Roof Vent Shock Absorbers Sink Sink Single Solar Panel Roof Ramel Roof Rack Roof Vent Shock Absorbers Sink Sink Single Solar Panel Roof Ramel Roof Ramel Roof Ramel Roof Ramel Roof Rack Roof Vent Shock Absorbers Sink Sink Single Thermostat Shurflo Windows (tinted) Windows (clear) Roof Roof Ramel Roof Roof Ramel Roof Roof Ramel Roof Roof Ramel Roof Roof Roof Roof Roof Roof Roof Ramel Roof		· ·		
Battery Discomment Battery Spearator Camper Cover Carbon Monoxide Detector Microwave/Convection Oven Fire Extinguisher Furnace Generator Jacks Propane Detector Montor Panel Power Center (Converter) Radio CD/DVD Range (woven) Range (woven) Range (woven) Range (woven) Regulator - Propane Regulator - Propane Roof Ralis/Ladder Roof Vent Roof Vent Roof Vent Roof Vent Side-Out Mechanism Roof Vent Side-Out Mechanism Roof Vent Side-Out Mechanism Solar Panel Roof Rapel Solar Panel Roof Rapel Solar Panel Roof Rapel Roof Vent Side-Out Mechanism Sink Sink Sink Sink Solar Panel Roof Rapel Roof Roof Roof Rapel Roof Roof Roof Rapel Roof Roof Roof Rapel Roof Roof Roof Rapel Roof Roof Roof Roof Roof Roof Roof Roof	Backup Camera/Monitor			444441.000010011
Satterly Seplarator Camper Cover Carbon Monoxide Detector Microwave/Convection Oven Fire Extinguisher Furnace Generator Jacks Propane Detector Propane Tank Mattress Monitor Panel Power Center (Converter) Radio CD/DVD Range (w/oven) Range (w/oven) Refrigerator Refrigerator Refrigerator Refrigerator Refrigerator Refrigerator Refrigerator Refrigerator Refrigerator Roof Rack Rejulator - Propane Roofing Roof Rack Roof Vent Roof Vent Shock Absorbers Sink Sylight Shock Absorbers Sink Sylight Shock Alarm Solar Panel Solar Panel Solar Panel Solar Panel Solar Panel Solar Panel Roof Rach Stria Mattres Serial Roof Vent Shock Alarm Solar Panel Solar Panel Solar Panel Solar Panel Solar Panel Solar Panel Water Heater Water He				www.surenower.com
Carbon Monoxide Detector Carbon Monoxide Detector Microwave/Convection Oven Fire Extinguisher Furnace Generator Jacks Fropane Detector Propane Detector Propane Detector Propane Tank Mattress Monitor Panel Power Center (Converter) Radio CD/DVD Range (Woven) Range Vent Regulator - Propane Regulator - Propane Regolfactor Roof Rack Roof Vent Roof Vent Shock Absorbers Sink Noroke Alarm Sinke Dometic Corporation Roof Vent Shock Absorbers Sink Sink Sinke Dometic Corporation Shock Alarm Sinke Dometic Corporation Shock Alarm Sinke Panel Roof Range Regulator Trank Flush Thermostat Thermostat Happijac Company Windows (tinted) Windows (clear) Windows (clear) Windows (clear) Windows (clear) CCI Controls Roof Vent Atwood Mobile Products Roof Vent Roof Vent Roof Vent Vater Heater Water Heater Water Heater Windows (clear) Windows (clear) Windows (clear) Windows (clear) CCI Controls Roof Vent Roof	Battery Separator			
Microwave/Convection Oven Fire Extinguisher Furnace Generator Jacks Propane Detector Propane Tank Mattress Monitor Panel Power Center (Converter) Radio CD/DVD Range (w/oven) Range (w/oven) Refrigerator Refrigerator Refrigerator Refrigerator Roof Rails/Ladder Roof Rails/Ladder Roof Vent Roof Vent Roof Vent Roof Vent Roof Vent Solar Panel Windows (clear) Windows (clear) Windows (clear) Windows (clear) Windows (clear) Vww.tclsales.com www.wi.iristalert.com www.atwoodmobile.com www.asalectronics.com www.asalectronics.com www.asalectronics.com www.asalectronics.com www.atwoodmobile.com www.asalectronics.com www.asalectronics.com www.asalectronics.com www.asalectronics.com www.asalectronics.com www.asalectronics.com www.elixirind.com www.dicor.com www.asalectronics.com www.spinidustries.com www.spinidustries.com www.safet-alert.com www.spinidustries.com www.spinidustries.com www.spinidustries.com www.spinidustries.com	Camper Cover	· ·		
Microwave/Convection Oven Fire Extinguisher Furnace Generator Jacks Propane Detector Propane Detector Propane Tank Mattress Monitor Panel Power Center (Converter) Radio CD/DVD Range (Woven) Regulator - Propane Regulator - Propane Roofing Roof Rails/Ladder Roof Vent Roof Vent Roof Vent Shock Absorbers Sink Dometic Corporation Shock Absorbers Sink Skylight Thermostat Thermostat Tiedowns Toilet Water Heater Windows (tiled) Window	Carbon Monoxide Detector			
Fire Extinguisher Furnace Generator Jacks Generator Jacks Atwood Mobile Products Advood Mobile Products Atwood Mob	Microwave/Convection Oven			
Generator Jacks Propane Detector Propane Tank Mattress Serta Monitor Panel Power Center (Converter) Range (Woven) Refrigerator Regulator - Propane Roofing Roof Rack Roof Vent Roof Vent Shock Absorbers Sinik Skylight Slide-Out Mechanism Shock Absorbers Sinik Solar Panel	Fire Extinguisher			
Generator Jacks Atwood Mobile Products Atwood Mobile Products Propane Detector Propane Tank Marchester Tank Co. Serta Monitor Panel Progressive Dynamics, Inc. Range (W/oven) Range (W/oven) Range (W/oven) Refrigerator Regulator - Propane Roofing Roof Rack Roof Vent Roof Vent Roof Vent Shock Absorbers Sink Skylight Shock Absorbers Sink Skylight Solar Panel Solar Solar		-		
Jacks Propane Detector Propane Tank Mattress Mattress Monitor Panel Power Center (Converter) Radio CD/DVD Range (wloven) Range Vent Refrigerator Regulator - Propane Roofing Roof Rails/Ladder Roof Vent Roof Vent Shock Absorbers Sink Skylight Slide-Out Mechanism Smoke Alarm Scolar Panel Solar Pa	Generator			
Propane Tank Propane Tank Manchester Tank Co. Sorta Monitor Panel Power Center (Converter) Radio CD/DVD Radio CD/DVD Range (Woven) Refrigerator Regulator - Propane Roofing Roof Raiks/Ladder Roof Vent Roof Vent Roof Vent Shock Absorbers Sink Skylight Slide-Out Mechanism Smcke Alarm Scolar Panel Solar Panel	Jacks	-		
Manchester Tank Co. Mattress Monitor Panel Power Center (Converter) Radio CD/DVD Range (Woven) Range Vent Refrigerator Regulator - Propane Roofing Roof Rals/Ladder Roof Vent Roof Vent Shock Absorbers Slink Shylight Slide-Out Mechanism Smoke Alarm Solar Panel				
Mattress Monitor Panel Power Center (Converter) Radio CD/DVD Range (w/oven) Range Vent Refrigerator Regulator - Propane Roofing Roof Rack Roof Vent Solvet S		Manchester Tank Co.		
Monitor Panel Power Center (Converter) Radio CD/DVD Range (w/oven) Range Vent Refrigerator Reoffing Roof Rails/Ladder Roof Rook Roof Vent Rook Absorbers Sink Slide-Out Mechanism Smoke Alarm Smoke Alarm Solar Panel Solar Panel Solar Panel Solar Panel Solar Panel Solar Panel Roof Regulator Topilet TV – LCD TV Antenna/Sat Dish Water Heater Water Heater Water Heater Windows (clear) Windows (clear) Windows (clear) Windows (clear) Klise Enterprises Roof Vond Progressive Dynamics, Inc. 616 781-4241 888 332-1506 888 332-1506 www.norcode.com www.atwoodmobile.com www.atwoodmobile.com www.asaelectronics.com www.asaelectronics.com www.asaelectronics.com www.asaelectronics.com www.atwoodmobile.com www.asaelectronics.com www.atwoodmobile.com www.asaelectronics.com www.atwoodmobile.com www.asaelectronics.com www.atwoodmobile.com www.atwoodmobile.com www.atwoodmobile.com www.safect-alert.com www.swarindustries.com www.swarindustries.com www.swarindustries.com www.swarindustries.com www.swarindustries.com www.swarindustries.com www.safect-alert.com www.swarindustries.com www.safect-alert.com www.swarindustries.com www.swarindustries.com www.swarindustries.com www.swarindustries.com www.swarindustries.com www.swarindustries.com www.swarindustries.com				•• • • • • • • • • • • • • • • • • • • •
Power Center (Converter) Radio CD/DVD Range (w/oven) Range (woven) Range Vent Refrigerator Regulator - Propane Roofing Roof Rack Roof Vent Roof Vent Shock Absorbers Sink Slide-Out Mechanism Shok Alarm Shok Alarm Shok Alarm Shok Alarm Sholar Panel Solar Panel Solar Panel Solar Panel Solar Panel Regulator Tollet TV - LCD TV Antenna/Sat Dish Water Heater Water Heater Water Heater Warner Warner Range (w/oven) Atwood Mobile Products Elixir Corporation Norcold, Inc. As8 8332-1506 888 883-25-4528 800 223-1555 800 877-2495 800 877-2495 800 877-2495 800 877-2495 800 877-2495 800 653-0605 800 653-0605 888 883-25-4621 900 653-0605 888 883-25-4621 900 653-0605 900 653-060		KIB Enterprises		
Radio CD/DVD Range (Woven) Range Vent Refrigerator Regulator - Propane Roofing Roof Rails/Ladder Roof Vent Roof Vent Shock Absorbers Sink Skylight Skylight Slide-Out Mechanism Smoke Alarm Scolar Panel Solar Panel Roolar Panel	Power Center (Converter)	Progressive Dynamics, Inc.		www.progressivedyn.com
Range (w/oven) Range Vent Refrigerator Refrigerator Regulator - Propane Roofing Roof Rails/Ladder Roof Rack Roof Vent Shock Absorbers Sink Skylight Skylight Solar Panel Solar				www.asaelectronics.com
Range Vent Refrigerator Regulator - Propane Roofing Roof Rails/Ladder Roof Rack Roof Vent Shock Absorbers Sink Skylight Skylight Solar Panel Solar Pan				
Refrigerator Regulator - Propane Roofing Roof Rails/Ladder Roof Rack Roof Vent Roof Vent Roof Vent Shock Absorbers Sink Skylight Slide-Out Mechanism Smoke Alarm Solar Panel Solar Panel Solar Panel Roof Regulator Tank Flush Thermostat Tiedowns Toilet TV - LCD TV Antenna/Sat Dish Water Heater Water Heater Water Heater Windows (tinted) Windows (clear) Marshall Gas Controls Marshall Gas Controls Boo 877-2495 Www.mgc-mbc.com/Mgcpgl.htm www.mgc-mbc.com/Mgcpgl.htm www.mgc-mbc.com/Mgcpgl.htm www.mgc-mbc.com/Mgcpgl.htm www.mgc-mbc.com/Mgcpgl.htm www.dicor.com www.delicrio.com www.delixirid.com www.delixirid.com www.delixirid.com www.dasa.eom www.delixirid.com www.dasa.eom www.delixirid.com www.dasa.eom www.delixirid.com www.dasa.eom www.domobile.com www.lyonsindustries.com www.lyonsindustries.com www.lyonsindustries.com www.laropajac.com www.safe-t-alert.com www.saf	Range Vent	Elixir Corporation		** ** ***
Regulator - Propane Roofing Dicor Corporation Roof Rails/Ladder Roof Rack Roof Vent Roof Vent Roof Vent Shock Absorbers Sink Sink Slide-Out Mechanism Smoke Alarm Solar Panel				www.norcold.com
Roofing Roof Rails/Ladder Roof Rack Roof Vent Roof Vent Roof Vent Shock Absorbers Sink Skylight Slide-Out Mechanism Solar Panel Solar Pane		Marshall Gas Controls		
Roof Rails/Ladder Roof Rack Roof Vent Roof Vent Roof Vent Roof Vent Roof Vent Shock Absorbers Sink Skylight Solar Panel Solar		Dicor Corporation		
Roof Rack Roof Vent Roof Vent Roof Vent Roof Vent Roof Vent Shock Absorbers Sink Skylight Shock Alarm Solar Panel		Topline Mfg		
Roof Vent Roof Vent Roof Vent Roof Vent Shock Absorbers Sink Skylight Slide-Out Mechanism Solar Panel				www.yakama.com
Roof Vent Shock Absorbers Sink Skylight Slide-Out Mechanism Solar Panel Solar Panel Regulator Tank Flush Thermostat Tiedowns Toilet TV – LCD TV Antenna/Sat Dish Water Heater Warder Heater Warder Heater Windows (clear) Fantastic Vent Co. Rancho Shocks Rancho Shocks Lyons Britestar Rancho Shocks Lyons Britestar Rancho Shocks Rancho 458-9036 Rww.lharpoliac.com www.lonepiac.com www.swanindustries.com www.swanindustries.com www.atwoodmobile.com www.swanindustries.com www.swanindustries.com www.swanindustries.com www.swanindustries.com www.swanindustries.com www.swanindustries.com www.swanindustries.com www.hehr-international.com www.hehr-international.com www.kinro.com				
Shock Absorbers Sink Sink Skylight Slide-Out Mechanism Smoke Alarm Solar Panel Solar Panel Solar Panel Regulator Tank Flush Thermostat Tiedowns Toilet TV – LCD TV Antenna/Sat Dish Water Heater Water Heater Water Pump Windows (tinted) Windows (clear) Sink Lyons Britestar Boo 458-9036 Boo 458-908 Boo 458		Fantastic Vent Co.		
Sink Skylight Slide-Out Mechanism Smoke Alarm Solar Panel Solar Panel Regulator Tank Flush Thermostat Tiedowns Toilet TV – LCD TV Antenna/Sat Dish Water Heater Water Pump Windows (clear) Sink Skylight Dometic Corporation Happijac Company M.T I. Solar Panel Evergreen Solar Specialty Concepts, Inc. Specialty Concepts www.sarindustries.com www.sarindustries.com www.sarin		Rancho Shocks		
Skylight Slide-Out Mechanism Smoke Alarm Solar Panel Solar Panel Regulator Tank Flush Thermostat Tiedowns Toilet TV – LCD TV Antenna/Sat Dish Water Heater Water Heater Water Pump Windows (tinted) Windows (clear) Smoke Alarm M.T I. Solar Panel Evergreen Solar Specialty Concepts, Inc. Specialty Concepts www.sepcialtyconcepts.com www.sepcialtyconcepts		Lyons Britestar		
Slide-Out Mechanism Smoke Alarm Solar Panel Solar Panel Regulator Tank Flush Thermostat Tiedowns Toilet TV – LCD TV Antenna/Sat Dish Water Heater Water Heater Water Pump Windows (tinted) Windows (clear) Solar Panel Evergreen Solar Specialty Concepts, Inc. Specialty Concepts www.safe-t-alert.com www.safe-t-alert.com www.safe-t-alert.com www.safe-t-alert.com www.specialtyconcepts www.safe-t-alert.com www.specialtyconcepts www.safe-t-alert.com www.specialtyconcepts www.safe-t-alert.com www.specialtyconcepts www.safet-alert.com www.safet-alert.com www.safet-alert.com www.safet-alert.com www.s		Dometic Corporation		
Smoke Alarm Solar Panel Solar Panel Regulator Solar Panel Regulator Tank Flush Thermostat Tiedowns Toilet TV – LCD TV Antenna/Sat Dish Water Heater Water Heater Water Pump Windows (tinted) Windows (clear) M.T I. Solar Sanel Evergreen Solar Specialty Concepts, Inc. Specialty Concepts, Inc. Specialty Concepts, Inc. Specialty Concepts, Inc. Sharp Specialty Concepts, Inc. Sharp Swan Industries Inc. Swan Industries Inc. Swan Industries Solar Panel Sola 357-2221 Www.severgreensolar.com www.swanindustries.com www.swanindustries.com www.sharpusa.com www.winegard.com www.swanindustries.com www.shurflo.com www.shurflo.com www.hehr-international.com www.swanindustries.com	Slide-Out Mechanism	Happijac Company		
Solar Panel Solar Panel Regulator Specialty Concepts, Inc. Tank Flush Thermostat Tiedowns Toilet TV – LCD TV Antenna/Sat Dish Water Heater Water Heater Water Pump Windows (tinted) Windows (clear) Specialty Concepts, Inc. Specialty Concepts. Specialty Concepts, Inc. Specialty Concepts. Specialty Concepts, Inc. Specialty Concepts.				
Solar Panel Regulator Tank Flush Thermostat Tiedowns Toilet TV – LCD TV Antenna/Sat Dish Water Heater Water Heater Water Pump Windows (tinted) Windows (clear) Specialty Concepts, Inc. Swan Industries Inc. Atwood Mobile Products Swan Industries Inc. Atwood Mobile Products Swan Industries Inc. Shurflo Swan Industries Inc. Shurflo Swan Industries Inc. Shurflo Swan Industries Inc. Swan Industries Inc. Swan Industries Inc. Shurflo Swan Industries Inc. Swan Industries Inc		Evergreen Solar		
Tank Flush Thermostat Tiedowns Toilet TV – LCD TV Antenna/Sat Dish Water Heater Water Heater Water Pump Windows (tinted) Windows (clear) Swan Industries Inc. Atwood Mobile Products Happijac Company Thetford Corporation Sharp Thetford Corporation Sharp Thetford Corporation Sharp Thetford Corporation Sharp Toilet Thetford Corporation Sharp Toilet Sharp Toilet Sharp Toilet Sharp TV – LCD TV Antenna/Sat Dish Winegard Atwood Mobile Products Swan Industries Inc. Swan Industries Inc. Shurflo Shu		Specialty Concepts, Inc.		
Thermostat Tiedowns Toilet Toilet TV – LCD TV Antenna/Sat Dish Water Heater Water Heater By-pass Water Pump Windows (tinted) Windows (clear) Therford Company Thetford Corporation Sharp Thetford Corporation Sharp Thetford Corporation Sharp Winegard Atwood Mobile Products Sharp Winegard Atwood Mobile Products Sharp Sharp Winegard Atwood Mobile Products Sharp Sharp Winegard Atwood Mobile Products Sharp Sharp Swan Industries Inc. Shurflo Windows (clear) Shurflo Shurflo Windows (clear) Stat 389-4668 Www.atwoodmobile.com www.happijac.com www.happijac.com www.happijac.com www.happijac.com www.happijac.com www.happijac.com www.sharpusa.com www.sharpusa.com www.swanindustries.com www.swanindustries.com www.happijac.com www.happijac.com www.happijac.com www.sharpusa.com www.sharpusa.com www.swanindustries.com				
Tiedowns Happijac Company 800 231-7440 www.nappijac.com Toilet Thetford Corporation 800 521-3032 www.thetford.com TV – LCD Sharp 800 237-4277 www.sharpusa.com TV Antenna/Sat Dish Winegard 319 754-0600 www.winegard.com Water Heater Atwood Mobile Products 800 825-4328 www.atwoodmobile.com Water Heater By-pass Swan Industries Inc. Shurflo 800 854-3218 www.swanindustries.com Water Pump Windows (tinted) Hehr International 323 663-1261 www.hehr-international.com Windows (clear) Kinro Products 541 389-4668 www.kinro.com		Atwood Mobile Products		
Toilet Thetford Corporation 800 521-3032 www.tnetford.com TV – LCD Sharp 319 754-0600 TV Antenna/Sat Dish Winegard Atwood Mobile Products Water Heater By-pass Water Pump Windows (tinted) Windows (clear) Thetford Corporation 800 521-3032 www.tnetford.com www.sharpusa.com www.sh				
TV – LCD TV Antenna/Sat Dish Water Heater Water Heater By-pass Water Pump Windows (tinted) Windows (clear) Sharp Sharp Winegard Atwood Mobile Products Shurflo Shurflo Winegard Atwood Mobile Products Swan Industries Inc. Shurflo Shurflo Winegard Swan Industries Inc. Shurflo Shurflo Winegard Swan Industries Inc. Shurflo Shurflo Winegard Swan Industries Inc. Shurflo Shurflo Shurflo Shurflo Winegard Swan Industries Inc. Shurflo Sh				
TV Antenna/Sat Dish Winegard Water Heater Water Heater By-pass Water Pump Windows (tinted) Windows (clear) Winegard Atwood Mobile Products 800 825-4328 800 825-4328 www.atwoodmobile.com www.swanindustries.com www.winegard.com www.winegard.com www.winegard.com www.atwoodmobile.com www.swanindustries.com www.hehr-international.com www.kinro.com www.kinro.com www.kinro.com				· · ·
Water Heater Water Heater By-pass Water Pump Windows (tinted) Windows (clear) Atwood Mobile Products Swan Industries Inc. Swan Industries Inc. Shurflo Shurflo Shurflo Shurflo Windows (clear) Atwood Mobile Products S41 389-4668 S41 389-4668 Www.atwoodmobile.com www.swanindustries.com www.swanindustries.com www.shurflo.com www.hehr-international.com www.kinro.com www.kinro.com				
Water Heater By-pass Swan Industries Inc. 541 389-4668 www.swanindustries.com Water Pump Shurflo 323 663-1261 www.shurflo.com Windows (tinted) Hehr International 909 681-4236 www.kinro.com Windows (clear) Kinro Products 541 389-4668 www.swanindustries.com		Atwood Mobile Products		
Water Pump Shurflo 800 854-3218 www.shurflo.com Windows (tinted) Hehr International 909 681-4236 www.kinro.com Windows (clear) Kinro Products 909 681-4268 www.swanindustries.com				
Windows (tinted) Hehr International 323 663-1261 www.henr-international.com Windows (clear) Kinro Products 909 681-4236 www.kinro.com 541 389-4668 www.swanindustries.com				
Windows (clear) Kinro Products 909 681-4236 www.kinro.com 541 389-4668 www.swanindustries.com				
4VIII dows (olour) 541 280 4668 WWW SWANINGUSTIES CON				
	Winterizing System		541 389-4668	3 www.swaningustries.com

This phone listing is provided to assist you in case of emergencies, if you are stranded somewhere not close to a Lance service center or qualified RV repair facility.

Due to continual product development, some suppliers, phone numbers and web sites may change from those shown.

01/06

Lance Camper Manufacturing Corporation 43120 Venture Street Lancaster California 93535-4510 USA

661 949 3322 tel www.lancecamper.com



Copyright © Lance Camper Manufacturing Corporation (LCMC), All rights reserved. Lance, the Lance logomark, Recreational Versatility, America's Favorite Truck Camper, The SUV of RVs, LanceLock, Lance Max. Lance Lite, Lance Custom Design and Redefining The Truck Camper are registered trademarks, service marks or trademarks of LCMC. All other marks are property of their respective owners. All product information, graphics and photography included in this Owner's Manual were accurate as possible at the time of printing. Any changes may reflect subsequent refinements during model year production. LCMC reserves the right to change prices, colors, materials, equipment and specifications without notice - as well as to add, modify or discontinue models shown in its literature. All fuel, weight and liquid capacities are approximate and dimensions are nominal. LCMC has designed its truck camper models to provide a variety of potential uses for owners. Each model features optimum living, storage, fluid. seating and sleeping capacities. Though each owner enjoys this potential, ultimately. it's that purchaser's sole responsibility to select the proper Lance camper model and support equipment appropriate to their truck without exceeding safe weight operating capacities. Because LCMC is unfamiliar with your specific truck and how you intend to use it, LCMC makes no warranties or representation – express or implied – as to the performance or reliability of your truck with a Lance camper. Your Factory Authorized Lance Dealer can advise you of the operational parameters for your particular situation - and can confirm product specifications and proper operating procedures. CS/0106 | Part MM302-06

Page 1 of 1

Tami Burnett

From: Lana Dang [lanad@lancecamper.com]

Sent: Tuesday, February 07, 2006 3:25 PM

To: Tami Burnett

Subject: Warranty claims

Do the following have a "Warranty Claim Status" sheet:

Larry's #129777 Polar #124863 Rocky Mountain #123543

If so, can you please send it over? Let me know.

Thanks!

Lana Dang Accounting Department Lance Camper Mfg. Corp. Phone: (661) 949-3322 x 225

Fax: (661) 723-5318

Email: lanad@lancecamper.com