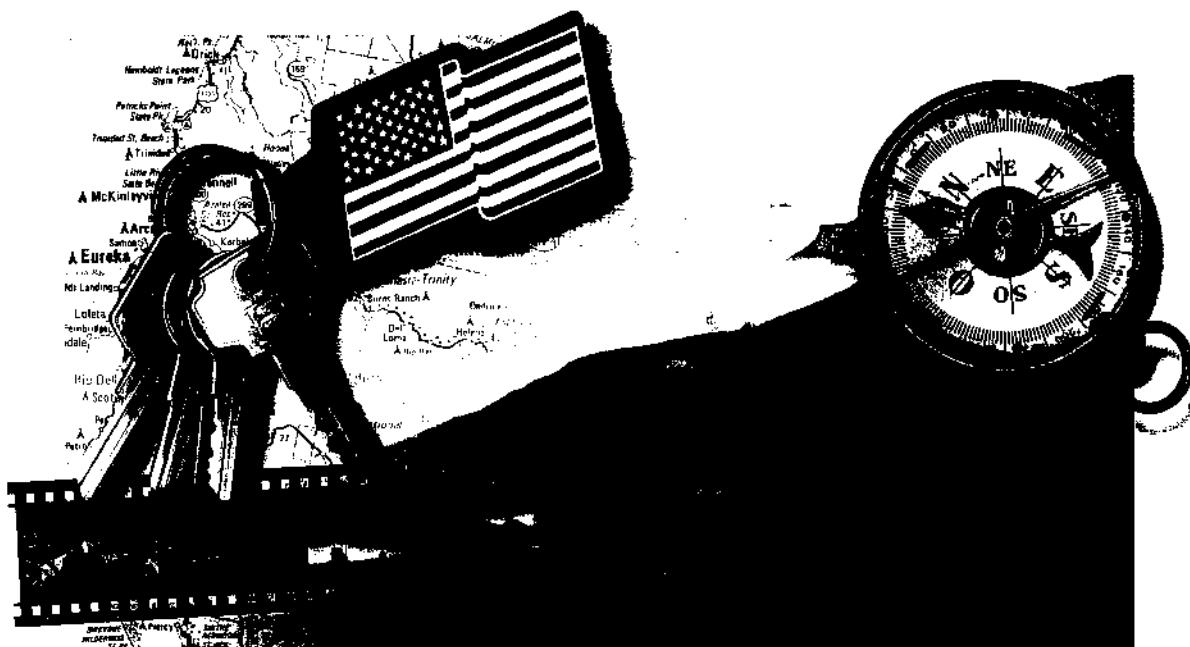


NEW MAR



OWNER'S GUIDE

2000 London Aire

DIESEL PUSHER MOTORHOME

NEWMAR CORPORATION

OWNER'S GUIDE

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is guide, along with the Video Owner's Guide, has been provided by Newmar Corporation solely for the purpose of providing instructions about the operation and maintenance of this vehicle and its components. Nothing in this manual creates any warranty, either express or implied. The only warranty offered by Newmar Corporation is set forth in the written limited warranty that applies to this vehicle.

Instructions are included in this manual for operating some of the components that are standard on this vehicle. Instructions are also given for components that are options and may not appear on all vehicles. For more detailed information on components refer to the individual manufacturer's operating instructions contained in the Owner's Information Package.

The limited warranties issued by component manufacturers require periodic service and maintenance, and the owner's failure to provide this service and/or maintenance will result in the loss of warranty coverage. The owner should review the Newmar Corporation limited warranty and other manufacturers' limited warranties of all components applicable to this vehicle. To activate the warranties on the components within your Newmar recreational vehicle, be sure to file the appropriate registration card with the component manufacturer as described with the individual instruction booklet.

Newmar Corporation has compiled the most current information available at the time of publication. If the components in your unit vary significantly from what is described within this manual, then consult the instructions provided by the component manufacturer found in the Owner's Package.

Throughout this guide, reference is made to the following terms: Warning, Caution, and Important. These terms indicate important information that must be understood and followed. The definitions of these terms are:

WARNING

Emphasizes an area in which personal injury or even death could result from failure to follow instructions properly. Mechanical damage may also occur.

CAUTION

Failure to observe a caution can cause damage to the equipment or unit. Personal injury is unlikely.

IMPORTANT

Provides additional information to make a step easier or clearer.

CHAPTER 1

GENERAL INFORMATION

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DELIVERY

Throughout the manufacturing process your vehicle has been inspected by our qualified technicians. However, our final inspection at the factory is not to be the last one. The pre-delivery inspection and systems check your dealer performs are the final inspections done to the unit prior to you receiving your new coach. Your dealer is also available to assist you in understanding the limited warranties and completing any necessary forms to activate the warranties for the various appliances and accessories installed in your unit.

Dealer Responsibilities

1. A pre-delivery inspection and systems check. Thoroughly inspecting the vehicle and the operation of the factory installed components.
2. A customer walk-through. This is done to familiarize the customer with the vehicle, its systems and components, and their operation.
3. Delivery of the Owner's Information Package. This package contains the warranty cards and registrations for the vehicle and factory installed components that carry a separate warranty. The detailed operating and maintenance instructions on these components are also included in this package.
4. Assisting the customer in completing the component registration forms, at the customer's request. To avoid loss of warranty coverage, the dealer should review the limited warranty provisions with the customer stressing the importance of filing warranty cards and registrations to the component's manufacturers within the prescribed time limit.
5. Providing the customer with information regarding warranty and non-warranty work on the vehicle and its separately warranted components whether the customer is in or out of the area.

Customer Responsibilities

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

To assist you in avoiding problems with your vehicle, we recommend you do the following:

- a. Read the warranty. Go over it thoroughly with your dealer.
- b. Inspect the vehicle. Do not accept delivery until you have gone through the unit with the dealer. Newmar has provided a check list to be used during retail delivery. Check each item on the list and make sure the dealer does the same. Do not sign this checklist until you have done this.
NOTE: The sales literature versus actual specifics to the vehicle's measurements, weights, or quantities may vary.
- c. Ask questions about anything that you do not understand concerning your recreational vehicle.
- d. When taking delivery, set an appointment for adjustments. This appointment should be approximately two (2) weeks after you accept delivery.
- e. Responsible Use. Your vehicle is designed to be used for recreational or temporary living purposes. It is not designed to be used as a full-time residence or for commercial use. Commercial use means using as a business asset such as a mobile office or using the vehicle for lease/rental purposes.

RECREATIONAL VEHICLE LIMITED WARRANTY

The Newmar Corporation Limited Warranty was provided to you by your selling dealer prior to purchase. Please refer to this document when inquiring about the Newmar Warranty. To receive an additional copy, please write to: Newmar Corporation, Warranty Department, P.O. Box 30, Nappanee, IN 46550-0030.

Major Equipment Manufacturers

| | |
|--------------------------------------|--------------|
| A & E Awnings | 800-544-4881 |
| Antennatek | 303-772-9591 |
| Atwood (LP Detector & Water Heaters) | 815-877-5700 |
| Clarion Back Up Systems | 800-366-4567 |
| Diesel Equipment (Wiper System) | 910-373-8331 |
| Dometic, Duo Therm | 800-544-4881 |
| Evans Dash Air Conditioning | 800-354-7088 |
| Exide Batteries | 800-537-9434 |
| Fantastic Vents | 800-521-0298 |
| Flexsteel | 319-556-7730 |
| Ford Motor Company | 800-444-3311 |
| Freightliner Chassis | 864-488-8388 |
| Gekotek Electronics (Monitor Panel) | 714-738-3551 |
| Generac Generators | 800-747-1530 |
| Goodyear Tires | 800-227-1999 |
| Heart Interface | 800-446-6180 |
| HWH Leveling Jacks | 800-494-3213 |
| Kwikkee Products (Step) | 800-736-9961 |
| Magnadyne | 219-262-4479 |
| Magnavox Appliances | 800-851-8885 |
| Michelin Tires | 800-847-8475 |
| Newmar Corporation | 800-731-8300 |
| Norcold Refrigeration | 800-543-1219 |
| Onan Generators | 800-888-6626 |
| Panasonic Microwaves | 888-433-6486 |
| Pioneer | 800-777-4856 |
| Power Tech Generators | 800-760-0027 |
| Sealand Toilets | 800-321-9889 |
| Sears Washer & Dryer | 800-359-2000 |
| Sharp | 800-334-8251 |
| Sony | 800-222-7669 |
| Spartan Motors | 800-543-4277 |
| Splendide Washer/Dryer | 504-229-4922 |
| Suburban Furnace | 800-659-2138 |
| Thetford Toilet | 800-521-3032 |
| Michigan Residents | 313-769-6000 |
| Todd Engineering | 800-439-8633 |
| Trekmate Security Systems | 619-941-3444 |
| U-Line Ice Maker | 800-779-2547 |
| Ventline (Range Hood) | 219-848-4491 |
| Wedgewood Range (Atwood) | 815-877-5700 |
| Wilson Art Flooring | 800-433-3222 |
| Winegard Antenna Systems | 800-288-8094 |

Warranty Service

Warranty service required needs to be completed during the term of the warranty. Service work performed after the expiration of the Newmar three (3) year, 36,000 mile warranty **WILL NOT** be covered by the warranty. Exceptions may be made on an individual basis to this deadline due to unavailability of parts or service appointment time where work is to be performed. Don't rely on the possibility of an exception. Get the work scheduled and completed before your warranty expires.

Owner's Information Package

Included in this package are valuable documents about your vehicle and its components and systems. The Newmar Owner's Guide does not cover every possible detail of equipment, standard and/or option, installed on or in your vehicle. Consulting the booklets and instruction manuals in this package will help you safely operate, maintain, and troubleshoot these items.

Read all of the information and understand the safety and operating instructions included in the Owner's Information Package. To assure full warranty coverage, it is essential that all maintenance instructions are followed.

CUSTOMER RELATIONS

If you wish to schedule maintenance, service or to order parts, you should notify your local Authorized Newmar Service Center to set up an appointment. If you are unsure of the location of your closest Authorized Newmar Service Center, see the listing in the manual.

You may also write to:

Newmar Corporation
Warranty Department
P.O. Box 30
Nappanee, IN 46550-0030

REPORTING SAFETY DEFECTS

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

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

To contact NHTSA, you may either call the Auto Safety Hotline toll free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, DC 20590. You can also obtain other information about motor vehicle safety from the hotline.

SPECIFICATION LABEL

There are two main numbers used to identify the vehicle. The Vehicle Identification Number (VIN) is the legal identification of the completed vehicle. The VIN is the number used by the state for vehicle registration. The Newmar Serial Number (1) is a five digit number that is needed whenever making an appointment for service or ordering parts through your Newmar Dealer or Service Center. This number can be found on the placard in the kitchen overhead and on the Customer Care Card received from Newmar. Below is a sample of the placard located in the kitchen.

1. The Newmar Serial Number
2. Last five digits Vehicle Identification Number (VIN)
3. Model Number of the Unit
4. Model Year of the Unit
5. Manufacturer, Model Number, and Serial Number of factory installed appliances

| SPECIFICATION LABEL | | | | | |
|-----------------------|-------------------------|-----------------|-------------|------------|----------|
| SERIAL # XXXXX | VIN # XXXXXXXXXXXXXXXXX | MODEL # XXXXXX | | | |
| DECOR # XXXXXX | WOODCOLOR XXXXXXXX | MODEL YEAR 1999 | | | |
| HEIGHT XXXXXX | DRY WEIGHT XXXXX | LENGTH XXXXX | | | |
| APPLIANCE INFORMATION | | | | | |
| | MODEL # | SERIAL # | | MODEL # | SERIAL # |
| FRONT A/C | XXXXXXXXXX | XXXXXXXX | REAR A/C | | |
| FRONT TV | | | REAR TV | | |
| FRONT FURN. | XXXXXXXXXX | XXXXXXXX | DASH A/C | | |
| WATER HEATER | XXXXXXXX | XXXXXX | RANGE | XXXXXXXXXX | XXXXXXXX |
| GENERATOR | | | AUX. HEATER | | |
| FRONT RADIO | | | REAR RADIO | | |
| WASHER | | | DRYER | | |
| CB RADIO | | | VCR | | |
| CONVERTER | XXXXXXX | XXXXXX | MICROWAVE | XXXXXXXXXX | XXXXXXXX |
| REFRIGERATOR | XXXXXXXXXX | XXXXXX | AWNING | | |
| MONITOR | | | AWNING HDW | | |
| ICE MAKER | | | FREEZER | | |
| INVERTER | | | CD PLAYER | | |

Notes

RECOMMENDED SERVICE CENTERS

ALABAMA

MADISON RV CENTER
1707 JORDAN LANE N.W.
HUNTSVILLE AL 35816
Phone (256) 837-3881 Fax (256) 830-4451

MILLICAN RV AMERICA
36115 US HWY. 280
SYLACAUGA AL 35150
Phone (256) 249-3773 Fax (256) 249-3958
REED CAMPER SALES
2405 JORDAN LANE
HUNTSVILLE AL 35816
Phone (256) 830-5024 Fax (256) 830-4682

ALASKA

ALASKAN ADVENTURES RV CTR.
918 EAST 73RD STREET
P.O. BOX 230427
ANCHORAGE AK 99518
Phone (907) 344-2072 Fax (907) 344-1608

ARIZONA

AMERICAN PRIDE RV CENTER
2145 E. MAIN ST.
MESA AZ 85213-9100
Phone (602) 644-1500 Fax (602) 644-0293

LA MESA RV CENTER
3631 E. FARNUM
TUSCON AZ 85706
Phone (520) 745-4900 Fax (520) 294-7635

LA MESA RV CENTER
6651 GILA RIDGE ROAD
YUMA AZ 85364
Phone (520) 344-4900 Fax (520) 341-9415

ARKANSAS

OUTDOOR LIVING CENTER
HWY. 7 SOUTH
P.O. BOX 1081
RUSSELLVILLE AR 72801
Phone (501) 968-7706 Fax (501) 968-4360

CALIFORNIA

ALPINE RECREATION SLs & SVC
19380 MONTEREY ROAD
MORGAN HILL CA 95037
Phone (408) 779-4511 Fax (408) 779-0754

BARBER RV
3650 E. MAIN STREET
P.O. BOX 3318
VENTURA CA 93006
Phone (805) 642-0276 Fax (805) 642-9711

BRAWLEYS
5933 N. MC HENRY AVE
P.O. BOX 2036
MANTECA CA 95336
Phone (209) 521-0170 Fax (209) 521-9436

DAVE ALTMANS RV
1201 BALDWIN PARK BLVD.
BALDWIN PARK CA 9170
Phone (626) 960-1884 Fax (626) 962-6906

DAVE ALTMANS RV
22020 RECREATION ROAD
CARSON CA 90745
Phone (310) 518-6182 Fax (310) 513-0500

DAVE ALTMANS RV
1313 RV CENTER DRIVE
COLTON CA 92324
Phone (909) 422-0311 Fax (909) 422-0450

EL MONTE RV CENTER
12061 E. VALLEY BLVD.
EL MONTE CA 91732
Phone (626) 443-6158 Fax (626) 404-6386

EL MONTE RV CENTER
565 E. REDLANDS BLVD.
SAN BERNARDINO CA 92402
Phone (909) 885-2000 Fax (909) 888-0420

LA MESA RV CENTER
5200 CHILES ROAD
DAVIS CA 95616
Phone (530) 750-5070 Fax (530) 750-5660

LA MESA RV CENTER
7430 COPLEY PARK PLACE
SAN DIEGO CA 92111
Phone (619) 874-8000 Fax (619) 874-8032

COLORADO

ALPINE TRAVEL TRAILERS
2487 HIGHWAY 6 & 50
GRAND JUNCTION CO 81505
Phone (970) 242-5898 Fax (970) 242-5898

J D L TRAILER SALES
2734 LAKE AVENUE
PUEBLO CO 81004
Phone (719) 564-8056 Fax (719) 564-0306

MOUNTAIN STATES RV
14300 E. COLFAX AVENUE
AURORA CO 80011
Phone (303) 360-0252 Fax (303) 363-9103

CONNECTICUT

DAVE'S RV CENTER
2 INDUSTRIAL PLAZA ROAD
DANBURY CT 06810
Phone (203) 730-1744 Fax (203) 730-1741

DELAWARE

SLICERS CAMPING TRAILERS
773 S. DUPONT HWY.
NEW CASTLE DE 19720
Phone (302) 836-4110 Fax (302) 836-4781

FLORIDA

DICK GORE'S RV WORLD
14590 DUVAL PLACE WEST
JACKSONVILLE FL 32218
Phone (904) 741-5100 Fax (904) 741-4905

INDEPENDENCE RV
12705 W. COLONIAL DRIVE
WINTER GARDEN FL 34787
Phone (407) 877-7878 Fax (407) 877-3806

LAND YACHTS
1414 COMMERCE LANE
P.O. BOX 1840
JUPITER FL 33468
Phone (561) 745-0242 Fax (561) 745-1725

LEISURE TYME RV
1490 HWY. 98 WEST
MARY ESTHER FL 32569
Phone (850) 581-0880 Fax (850) 581-2300

LEISURE TYME RV
6428 PENSACOLA BLVD.
PENSACOLA FL 32505
Phone (850) 476-6848 Fax (850) 474-6392

NORTH TRAIL RV CENTER
5270 ORANGE RIVER BLVD.
FORT MYERS FL 33905
Phone (941) 693-8200 Fax (941) 693-9702

TRAVEL EASY RV INC.
4299 HWY. 441 SOUTH
OKEECHOBEE FL 34974
Phone (941) 467-0400 Fax (941) 467-9396

TRI AM RV CENTER INC.
5441 N.E. JACKSONVILLE ROAD
OCALA FL 34479
Phone (352) 732-6269 Fax (352) 368-7992

GEORGIA

C S R A CAMPERLAND
3844 WASHINGTON ROAD
MARTINEZ GA 30907
Phone (706) 863-6294 Fax (706) 860-5728

COACH & CAMPERS
1936 IRIS DR.
CONYERS GA 30207
Phone (770) 482-4666 Fax (770) 482-2026

DICK GORE'S RV WORLD INC.
250 LONGWOOD DRIVE
RICHMOND HILL GA 31324
Phone (912) 756-6606 Fax (912) 756-6627

TRAVEL COUNTRY RV CTR. INC.
5343 MILL STORE RD.
LAKE PARK GA 31636
Phone (912) 559-7902 Fax (912) 559-9021

IDAHO

AMERICAN WAY RV CENTER
4033 CHINDEN BLVD.
BOISE ID 83714
Phone (208) 345-6644 Fax (208) 345-5540

ILLINOIS

ALL SEASONS CAMPING
260 W. GRAND AVE.
ELMHURST IL 60126
Phone (847) 608-4455 Fax (630) 832-0838

COLLIER RV CENTER
3510 MERCHANDISE DRIVE
ROCKFORD IL 61109
Phone (815) 874-7188 Fax (815) 874-9426

LARRY'S TRAILER SALES
HWY. 148 NORTH
P.O. BOX 98
ZEIGLER IL 62999
Phone (618) 596-6414 Fax (618) 596-6344

OZARK COACH SALES
707 MACOMB STREET
P.O. BOX 354
COLCHESTER IL 62326
Phone (309) 776-3182 Fax (309) 776-3183

R & S SALES & SERVICE
218 S. LAKE OF THE WOODS ROAD
MAHOMET IL 61853
Phone (217) 586-2055 Fax (217) 586-2382

INDIANA

ALL BRAND RV SERVICE
2717-B OAKLAND AVE.
P.O. BOX 1946
ELKHART IN 46517
Phone (219) 294-2363 Fax (219) 522-2251

DONS CAMPER SALES
U.S. 41 S. BOX 373
BOSWELL IN 47921
Phone (765) 869-5009 Fax (765) 869-5009

HART CITY RV SERVICE
2300 S. NAPPANEE STREET
ELKHART IN 46517
Phone (219) 295-5793 Fax (219) 295-6190

INDY RV CENTER
457 KNIGHT DR.
P.O. Box 447
GREENWOOD IN 46142
Phone (317) 881-0300 Fax (317) 881-0431

PREMIER RV
1400 LEISURE WAY
CLARKSVILLE IN 47129
Phone (812) 284-1400 Fax (812) 283-3465

THE RV CENTER INC.
3360 E. LINCOLNWAY
COLUMBIA CITY IN 46725
Phone (219) 244-3414 Fax (219) 244-3898

TERRY'S RV SALES & SERVICE
2900 E. CR 350 NORTH
MUNCIE IN 47303
Phone (765) 289-9704 Fax (765) 289-9737

TOM STINNETT HOLIDAY RV. CTR.
520 MARRIOTT DRIVE
CLARKSVILLE IN 47129
Phone (812) 282-7718 Fax (812) 285-7578

WETNIGHT RV SALES & SERVICE
4401 US 41 NORTH
P.O. BOX 5197
TERRE HAUTE IN 47805
Phone (812) 466-3961 Fax (812) 466-6851

IOWA

HEROLD TRAILER SALES
1806 W. 2ND AVE., HWY. 92 WEST
INDIANOLA IA 50125
Phone (515) 961-7405 Fax (515) 961-3674

WALKER TRAILER SALES INC.
HWY. 18 WEST, BOX 633
NORA SPRINGS IA 50458
Phone (515) 749-2321 Fax (515) 749-2379

KANSAS

A & R
16685 ORCHARD LANE
STILWELL KS 66085
Phone (913) 681-5446 Fax (913) 681-5446

HARPER CAMPERLAND
1200 E. 10TH, P.O. BOX 1993
GREAT BEND KS 67530
Phone (316) 792-5170 Fax (316) 792-8466

HARPER CAMPERLAND
117 W. 14TH
HARPER KS 67058
Phone (316) 896-2862 Fax (316) 896-2858

JAYHAWK CAMPER SALES
24105 W. 43RD
SHAWNEE KS 66226
Phone (913) 422-5677 Fax (913) 422-7147

WILCOX HOMES & RV CENTER
835 NORTH EAST HWY. 24
TOPEKA KS 66608
Phone (913) 357-5111 Fax (913) 232-1574

KENTUCKY

HALL ENTERPRISES
975 BEASLEY STREET
P.O. BOX 55038
LEXINGTON KY 40555
Phone (606) 233-1777 Fax (606) 254-1073

YOUNGBLOOD RV CENTER INC.
2132 STATE ROUTE #45 NORTH
MAYFIELD KY 42066
Phone (502) 247-8591 Fax (502) 247-0604

LOUISIANA

HOPE'S CAMPER CORNER INC.
6120 FRONTAGE ROAD
MONROE LA 71202
Phone (318) 345-1691 Fax (318) 345-0224

JACKIE EDGAR RV CENTER
3018 N.E. EVANGELINE THRUWAY
P.O. BOX 90274
LAFAYETTE LA 70507-3425
Phone (318) 232-1941 Fax (318) 232-1950

MILLER RV
12912 FLORIDA BLVD.
BATON ROUGE LA 70815
Phone (504) 275-2940 Fax (504) 275-6807

MAINE

MOUNTAIN ROAD RV
R.F.D. #1 BOX 2620
SABATTUS ME 04280
Phone (207) 375-4091 Fax (207) 375-4014

MARYLAND

BECKLEY'S CAMPING CENTER
11109 ANGLEBERGER ROAD
THURMONT MD 21788
Phone (301) 898-3300 Fax (301) 898-1017

MICHIGAN

BEECH GROVE TRAILER SALES
51439 M 40 NORTH
MARCELLUS MI 49067
Phone (616) 646-7845 Fax (616) 646-2012

ERNIES RV SALES & SERVICE INC.
1066 STEPKE CT.
TRAVERSE CITY MI 49684
Phone (616) 943-9111 Fax (616) 943-4441

GAYLORD RV SALES & SVC
271 WEST JOHNSON ROAD
GAYLORD MI 49735
Phone (517) 732-6141 Fax (517) 731-2735

GENERAL RV CENTER
17277 RANCHO ROAD
BROWNSTOWN TWP MI 48192
Phone (734) 284-5500 Fax (734) 284-5568

GENERAL TRAILER SALES
48135 GRATIOT AVE.
CHESTERFIELD MI 48051
Phone (810) 949-3000 Fax (810) 949-4802

GENERAL TRAILER SALES
5300 HIGHLAND ROAD
WATERFORD MI 48327
Phone (248) 674-0346 Fax (248) 674-3809

GENERAL TRAILER SALES
48500 12 MILE ROAD
WIXOM MI 48393
Phone (248) 349-0900 Fax (248) 349-7965

HILLTOP RV
2905 N. LINCOLN ROAD
ESCANABA MI 49829
Phone (906) 786-7986 Fax (906) 786-3421

INTERNATIONAL RV WORLD INC.
2717 E. DELTA ROAD
BAY CITY, MI 48706
Phone (517) 667-9840 Fax (517) 667-9843

KITSMILLER RV
1211 N. CEDAR
MASON MI 48854
Phone (517) 694-7500 Fax (517) 694-3542

MIDWAY MOTOR HOMES
5590 S. DIVISION AVE.
GRAND RAPIDS MI 49548
Phone (616) 534-9641 Fax (616) 534-6869

MODERN TRAILER SALES
3449 S. DIVISION AVE.
WYOMING MI 49548-2110
Phone (616) 241-2925 Fax (616) 241-5451
RANCH RV SALES INC.
6825 HWY. M-68
P.O. BOX 158
ALANSON MI 49706
Phone (616) 548-5443 Fax (616) 548-2202

TC RV INC.
705 N. US 31 SOUTH
TRAVERSE CITY MI 49684
Phone (616) 943-4050 Fax (616) 943-4075

MINNESOTA

HILLTOP TRAILER SALES
4560 CENTER AVE. NORTH EAST
MINNEAPOLIS MN 55421
Phone (612) 571-9103 Fax (612) 571-2536

SHOREWOOD RV CENTER
8390 HWY. 10 NORTH WEST
ANOKA MN 55303
Phone (612) 421-2505 Fax (612) 421-6076

MISSISSIPPI

CENTRAL MISSISSIPPI RV INC.
5551 INTERSTATE 55 SOUTH
136 BYRAM BUSINESS CENTER DR.
JACKSON MS 39212
Phone (601) 376-0171 Fax (601) 376-0414

RV REPAIR & SALES
4749 HWY. 80 WEST
JACKSON MS 39209
Phone (601) 922-9425 Fax (601) 922-5153

MISSOURI

CAPETOWN R V SALES
155 & AIRPORT ROAD
P.O. BOX 1985
CAPE GIRARDEAU MO 63702
Phone (573) 334-7152 Fax (573) 334-9059

COACHLIGHT RV SALES
5327 S. GARRISON AVE.
CARTHAGE MO 64836
Phone (417) 358-7444 Fax (417) 358-0856

FIVE STAR TRLR & EQUIPMENT
29725 E. HWY. 50, BOX 248 B
SEDALIA MO 65301
Phone (816) 826-3847 Fax (816) 827-3242

FRANK REED RV
HWY. 47 NORTH
P.O. BOX 212
ST. CLAIR MO 63077
Phone (314) 583-2244 Fax (314) 583-2147

K C TRAILER SALES
11520 S. 71 HWY.
KANSAS CITY MO 64137
Phone (816) 761-1393 Fax (816) 761-7722

THOMAS BILL CAMPER SALES
5217 N. LINDBERGH
ST. LOUIS MO 63044
Phone (314) 731-2217 Fax (314) 731-0269

MONTANA

BRETZ RV & MARINE
RESERVE STREET AT I-90
4800 GRANT CREEK ROAD
MISSOULA MT 59808
Phone (406) 721-4010 Fax (406) 541-4801

NEBRASKA

RICH & SONS CAMPER SALES
5112 S. ANTELOPE DRIVE
GRAND ISLAND NE 68803
Phone (308) 384-2040 Fax (308) 384-2043

NEVADA

MC KINNISH AUTO SALES & LSN
5130 HIGHWAY SOUTH EAST
CARSON CITY NV 89706
Phone (702) 883-7834 Fax (702) 883-8196

WHEELERS LAS VEGAS RV
13175 LAS VEGAS BLVD. SOUTH
LAS VEGAS NV 89124
Phone (702) 896-9000 Fax (702) 896-4504

NEW HAMPSHIRE

C H DANA RV SALES & SVC
628 WOODSVILLE RD.
MONROE NH 03771-3328
Phone (603) 638-2200 Fax (603) 638-2066

CAMP AMERICA
222 PLAISTOW ROAD, RTE. 125
PLAISTOW NH 03865
Phone (603) 382-9296 Fax (603) 382-1060

CAMPERS INN OF KINGSTON
146 ROUTE 125
KINGSTON NH 03848
Phone (603) 642-5555 Fax (603) 642-9931

MOUNTAIN VALLEY RECREATION
410 MAIN STREET
GORHAM NH 03581
Phone (603) 466-3868 Fax (603) 466-2416

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SCOTT MOTOR COACH SALES
1133 ROUTE 68
LAKEWOOD NJ 08701
Phone (732) 370-1022 Fax (732) 905-0993

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11200 CENTRAL S.E.
P.O. BOX 53250
ALBUQUERQUE NM 87123
Phone (505) 298-8444 Fax (505) 275-7687

AMERICAN RV & MARINE
11810 CENTRAL S.E.
ALBUQUERQUE NM 87123
Phone (505) 293-1983 Fax (505) 293-6991
AMERICAN RV & MARINE
200 NORTH TELSHORE BLVD
LAS CRUCES NM 88011
Phone (505) 522-5512 Fax (505) 522-3781

NEW YORK

BALLARDS CAMPING CENTER
S - 5849 SOUTHWESTERN BLVD.
HAMBURG NY 14075
Phone (716) 649-9654 Fax (716) 648-0340

FREEDOM RV OUTLET
103 SITTERLY ROAD
CLIFFTON PARK NY 12065
Phone (518) 371-1289 Fax (518) 371-3001

SEVEN O'S
7917 DEVAUL ROAD
KIRKVILLE NY 13082
Phone (315) 687-9342 Fax (315) 687-7992

WES TRAILER SALES
6166 ROUTE 25
WADING RIVER NY 11792
Phone (516) 727-5852 Fax (516) 727-5396

WILKINS RV INC.
1099 ALMOND ROAD
HORNELL NY 14843
Phone (607) 324-1313 Fax (607) 324-1062

WRATTEN TRAILER SALES
9209 ROUTE 11 SOUTH
P.O. BOX 5
ADAMS NY 13605
Phone (315) 232-4535 Fax (315) 232-3445

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CLAYTON NC 27520
Phone (919) 553-7277 Fax (919) 553-2716

HOWARD RV CENTER
6811 MARKET STREET
WILMINGTON NC 28405
Phone (910) 791-5371 Fax (910) 392-0672

INDEPENDENCE RV
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CHARLOTTE NC 28216
Phone (704) 596-5600 Fax (704) 597-7400

OLD TOWN CAMPER SALES
5109 NORTH CAUSEWAY DRIVE
WINSTON - SALEM NC 27106
Phone (336) 924-9864 Fax (336) 922-1458

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CAPITAL RV CENTER
1900 N. BISMARCK EXPY.
BISMARCK ND 58501
Phone (701) 255-7878 Fax (701) 255-1678

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P.O. BOX 555
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Phone (419) 288-2700 Fax (419) 288-3273

ARBOGAST RV DEPOT
3540 SOUTH COUNTY ROAD 25A
P.O. BOX 219
TROY OH 45373
Phone (937) 335-0068 Fax (937) 335-0471

BEGGS MOTOR HOMES
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P.O. BOX 545
UNIONTOWN OH 44685
Phone (330) 499-9755 Fax (330) 499-6002

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3491 STRUBLE ROAD
CINCINNATI OH 45251
Phone (513) 923-3600 Fax (513) 245-5145

FARBER MOTORS
5858 SCARBOROUGH BLVD.
COLUMBUS OH 43232
Phone (614) 864-7878 Fax (614) 864-7899

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1400 S. LYNN RIGGS
CLAREMORE OK 74017
Phone (918) 341-0114 Fax (918) 341-8936

DEAN'S RV SUPERSTORE INC
9955 EAST 21ST
TULSA OK 74129
Phone (918) 664-3333 Fax (918) 664-8643

LEE'S R V CITY
13111 N. BROADWAY EXT.
P.O. BOX 6250
EDMOND OK 73083-6250
Phone (405) 936-9300 Fax (405) 936-9323

LEWIS TRAVEL TRAILER SALES
11518 E. 66TH ST.
P.O. BOX 104
OWASSO OK 74055
Phone (918) 272-1353 Fax (918) 272-5451

OREGON

ALL SEASONS RV & MARINE
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P.O. BOX 5699
BEND OR 97701-5699
Phone (541) 382-5009 Fax (513) 825-8510

AL'S TRAILER SALES OF SALEM
4843 PORTLAND ROAD NORTH EAST
SALEM OR 97305
Phone (503) 393-3365 Fax (503) 393-1525

CURTIS TRAILERS INC.
21525 S.W. TV HWY.
ALOHA OR 97006
Phone (503) 649-8528 Fax (503) 649-3974

CURTIS TRAILERS INC.
10177 S.E. POWELL
PORTLAND OR 97266
Phone (503) 760-1363 Fax (503) 760-1482

EUGENE RECREATION SALES
1700 HWY. 99 NORTH
EUGENE OR 97402
Phone (541) 688-4849 Fax (541) 688-1885

OLINGER
6503 ALEXANDER
HILLSBORO OR 97123
Phone (503) 649-2141 Fax (503) 642-9579

OLINGER
9401 S. E. 82ND
PORTLAND OR 97266
Phone (503) 771-2121 Fax (503) 771-4638

RV ROUNDUP
2790 CRATER LAKE AVE.
MEDFORD OR 97504
Phone (541) 770-5887 Fax (541) 770-5589

TRIPLE A RV CENTER INC.
938 CHEVY WAY
MEDFORD OR 97504
Phone (541) 772-1938 Fax (541) 779-1460

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ANSLEY & LEWIS
1280 ROUTE 764
P.O. BOX 239
DUNCANVILLE PA 16635
Phone (814) 695 9817 Fax (814) 695-9814

COUNCIL CUP TRAILER SALES
ROUTE 239
WAPWALLOPEN PA 18660
Phone (570) 379-3751 Fax (570) 379-2913

HAROLD'S RV CENTER
7514 BETH BATH PIKE
BATH PA 18014
Phone (610) 837-9880 Fax (610) 837-9473

ROLLING WHEELS RV
2314 LYCOMING CREEK ROAD
WILLIAMSPORT PA 17701
Phone (570) 322-1894 Fax (570) 322-1902

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ARLINGTON RV SUPER CENTER
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EAST GREENWICH RI 02818
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JOHNS ISLAND SC 29455
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LEXINGTON SC 29073
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SIOUX FALLS SD 57107
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CLEVELAND TN 37312
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P.O. BOX 723
RED OAK TX 75154
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COLLEYVILLE TX 76034
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BOERNE TX 78006
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RON HOOVER CO.
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CORPUS CHRISTI TX 78416
Phone (361) 854-5383 Fax (361) 851-9578

RON HOOVER CO.
1849 GULF FREEWAY
LEAGUE CITY TX 77573
Phone (281) 316-2957 Fax (281) 554-9386

RON HOOVER CO.
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P.O. BOX 747
ROCKPORT TX 78382 Phone (361) 729-9695 Fax (361) 729-9698

VOGT MOTOR HOMES
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FORT WORTH TX 76117
Phone (817) 831-4222 Fax (817) 838-5574

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BLAINE JENSEN & SONS RV CTRS.
780 N. 900 WEST
KAYSVILLE UT 84037
Phone (801) 544-4298 Fax (801) 544-3685

ESQUIRE RV
1285 W. 600 SOUTH
VERNAL UT 84078
Phone (435) 789-4859 Fax (435) 781-9946

VERMONT

PETE'S RV CENTER
4016 WILLISTON ROAD
S. BURLINGTON VT 05403
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CHESAPEAKE VA 23323
Phone (757) 487-8113 Fax (757) 485-2736

KOOGLER SALES & SERVICE
ROUTE 2, BOX 193
FISHERSVILLE VA 22939
Phone (540) 942-5556 Fax (540) 943-0853

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BELLINGHAM WA 98226
Phone (360) 676-1515 Fax (360) 714-1447

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TACOMA WA 98424-1541
Phone (253) 926-6371 Fax (253) 926-6375

MILESTONE RV CENTER
6722 EAST SPRAGUE AVE.
SPOKANE WA 99212
Phone (509) 924-6446 Fax (509) 891-4131

TVETEN RV COMPANY
7700 PACIFIC HWY. EAST
MILTON WA 98354
Phone (253) 922-7770 Fax (253) 922-8742

WEST VIRGINIA

BRAND TRAILER SALES
2045 FAIRMONT AVE.
FAIRMONT WV 26554
Phone (304) 366-7104 Fax (304) 363-9345

SETZER'S WORLD OF CAMPING
5840 DAVIS CREEK ROAD
BARBOURSVILLE WV 25504
Phone (304) 736-5287 Fax (304) 736-5992

WISCONSIN

FINNEGANS RV
205 PARK AVE.
BELOIT WI 53511
Phone (608) 365-2306 Fax (608) 365-3569

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SHEBOYGAN WI 53081
Phone (920) 564-2381 Fax (920) 564-2385

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1200 E. SECOND ST.
P.O. BOX 3254
GILLETTE WY 82717
Phone (307) 686-1435 Fax (307) 682-1435

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MAJESTIC RV WORLD
2777 SUNRIDGE BLVD. NORTH EAST
CALGARY AB T1Y 3C2
Phone (403) 291-1203 Fax (403) 291-9561

VELLNER LEISURE PRODUCTS
1890 49 AVENUE
RED DEER AB T4R 2N7
Phone (403) 343-1464 Fax (403) 340-8135

BRITISH COLUMBIA

JIM BOTTOMLEY'S RV WORLD
1834 BYLAND ROAD
KELOWNA BC V1Z 3E5
Phone (250) 769-3688 Fax (403) 769-3899

MIDTOWN RV LTD.
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PENTICTON BC V2A 6M2
Phone (250) 492-5705 Fax (250) 492-0430

N R MOTORS LTD.
805 1ST AVE.
PRINCE GEORGE BC V2L 2Y4
Phone (250) 563-8891 Fax (250) 563-6315

TRAVELAND LEISURE VEHICLES
20529 LANGLEY BY PASS
LANGLEY BC V3A 5E8
Phone (604) 530-8141 Fax (604) 530-9576

TRIANGLE RV CENTRE LTD.
10299 MC DONALD PARK ROAD
SIDNEY BC V8L 5X7
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5195 PORTAGE AVE.
HEADINGLY MB R4H 1E1
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CAMPERS ALLEY LTD.
11 RUE BOURQUE ST.
P.O. BOX 929
BOUCTOUCHE NB E0A 1G0
Phone (506) 743-8404 Fax (506) 743-6855

ONTARIO

1000 ISLANDS RV CENTRE
409 CR #2, R.R. #2
GANANOCQUE ON K7G 2V4
Phone (613) 382-4400 Fax (613) 382-2466

EARLTON CAMPING CENTRE LTD.
HIGHWAY 11 NORTH, BOX 430
EARLTON ON P0J 1E0
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FRONTIER RV
4131 HWY 115-35
984 FINLEY AVE.
ORONO ON L0B 1M0
Phone (905) 983-8000 Fax (905) 983-5746

WILLIAM PATTERSON RV SALES
28359 PIONEER LINE
R.R. #1
DUTTON ON N0L 1J0
Phone (519) 762-2125 Fax (519) 762-3386

QUEBEC

RAYMOND LEBLANC
1275 DES LAURENTIDES BLVD.
VIMONT LAVAL PQ H7M 2Y2
Phone (450) 663-7941 Fax (450) 663-2213

SASKATCHEWAN

DJ'S RV CENTRE LTD.
THATCHER DRIVE EAST & #1 HWY.
P.O. BOX 308
MOOSE JAW SK S6H 4N9
Phone (306) 694-6048 Fax (306) 694-1221

CHAPTER 2

DRIVING & SAFETY PRECAUTIONS

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SAFETY PRECAUTIONS

WARNING

Prior to driving your vehicle, be sure you have read this entire owner's guide and that you understand your vehicle's equipment completely and how to use the equipment safely.

Read and understand all of the instructions and precautions in this owner's guide and the chassis manufacturer owner's manual before operating your new motorhome. Listed below are some safety precautions that must be adhered to while your motorhome is in motion. These precautions, as well as others that involve possible damage to equipment, are also listed in the appropriate areas in this manual.

General Warning

WARNING

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.

- Seats equipped with seat belts are the only ones to be used while the vehicle is in motion.
- While the vehicle is in motion, all seats should be locked in the forward facing position.
- Passengers should never be allowed to stand or kneel on seats in a moving vehicle.
- All passengers must have seat belts fastened in a low and snug position so that the force exerted by the belt in a collision will be spread across the hip area. Pregnant women should wear the lap-shoulder belt, with the lap belt portion worn low and snug.
- The fire extinguisher should be inspected monthly for proper charge and operating condition. The smoke alarm should also be tested on a regular basis. The label on the detector should be removed when preparing the unit for the first trip. In addition to the recommended inspection, these should also be checked prior to a vacation or extended trip.
- Sleeping facilities are not to be used while the vehicle is in motion.
- Become familiar with the operation of the escape window, but use this window strictly as an emergency exit.

Before Starting Out

The following is a brief list of procedures that will aid in your driving safety and extend your equipment's life.

- Windows, mirrors, and light lenses are to be clean and unobstructed.
- Tires should be checked for proper cold inflation pressure.
- Wheel lug nuts should be checked for proper tightness.
- Fluid levels, including engine oil, transmission fluid, coolant, power steering fluid, brake fluid, and windshield washer solvent, should be checked and filled if necessary.
- Disconnect the unit and store the sewer and water supply hoses as well as shoreline power cords.
- Secure all cargo in the storage compartments in the event of a sudden stop.
- Verify that the step has retracted prior to engine ignition.

Driving

There are various adjustments that need to be made prior to starting and moving the vehicle.

- Among them are the driver's seat, the tilt steering, and the exterior rear view mirrors.
- The dashboard may contain several gauges and controls you have not previously used. Become familiar with all of these devices and their operation before starting out.
- The cruise control is not to be operated on icy roads, extremely wet roads, winding roads, heavy traffic, or in any other traffic situation where a constant speed cannot be maintained.
- While driving on slippery surfaces, use care when accelerating or decelerating. Skidding and loss of vehicle control may be the result of abrupt changes in speed.
- Driving through water deep enough to wet the brakes may affect the stopping distance or cause the vehicle to pull to one side. If you have driven through deep water, check the brake operation in a safe area to be sure they have not been affected. Never operate a vehicle if a difference in braking efficiency is noticeable.
- Extreme terrain and adverse weather may affect the handling and/or performance of your vehicle. Please refer to your chassis manual for related information.

Notes

LP Gas & Fuel

WARNING

LP gas containers, gasoline or other flammable liquids shall not be placed or stored inside the vehicle because fire or explosion may result. LP gas containers are equipped with safety valves that relieve excessive pressure by discharging gas into the atmosphere.

- While refilling the fuel or LP tank, the engine must be off, all pilot lights must be extinguished, and appliances turned off. Smoking is also prohibited at this time.
- Exhaust gases contain carbon monoxide (an odorless, colorless, and poisonous gas). These gases are produced by burned gasoline, diesel, or LP gas. Items such as the range, furnace, water heater, refrigerator, chassis engine, or generator engine can produce these gases. These fumes should not be inhaled. Inhaling carbon monoxide may produce headaches, dizziness, nausea, or even death.
- An open flame is never to be used to test for LP gas leaks.
- All protective covers and caps must be replaced after filling the LP system.
- Once the valve is closed, securely latch the LP door.
- LP gas and natural gas are not interchangeable. Never connect natural gas to the LP gas system.
- The use of equipment such as wood and charcoal grills and stoves inside this recreational vehicle may cause fires or asphyxiation.

LP GAS SYSTEM

General Information

A warning label has been placed near the LP gas container. This label reads:

WARNING

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

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

The LP gas system components in your unit have been approved for use in camping vehicles by a nationally recognized testing laboratory. LP gas is a clean-burning dependable fuel when properly handled. The LP gas tank mounted on your unit contains liquid propane gas under high pressure. The liquid gas vaporizes as the fuel is used and passes through the tank valve

to a regulator that automatically reduces the pressure. The low-pressure gas is then distributed to the appliances through the pipe manifold system. Appliance lighting problems are commonly caused by an improperly adjusted gas regulator. Never attempt to reset the regulator yourself. Have an authorized service technician make any necessary adjustments. We recommend that you have the LP gas system checked by an authorized service technician at least once a year and after every extended trip. Although the manufacturer and dealer carefully test for leakage, travel vibrations could loosen fittings. Leaks can be easily found by applying leak detector solution at the connections. If leak detector solution is not available, a soapy water solution made with dish soap can be used. Tightening the fitting usually stops any leaks. If this does not work, shut off the main gas valve at the tank and immediately consult an authorized service technician for repairs. If a leak is suspected, the identifying odor smells similar to rotten eggs (sulfur). Never test for a leak by lighting a match or having an open flame where you suspect leaking gas.

WARNING

Shut off the main gas valve at the tank when the camping vehicle is not in use. Also, shut off the valve when refueling to avoid potential danger from pilot lights igniting fuel fumes. Some appliances, such as the refrigerator, water heater, and furnace, have DSI (direct spark ignition) boards, so it is important that you turn the appliances off when the LP gas is off. The ignition in the appliances will continue to spark even if there is no LP gas available.

LP Regulator

The regulator acts as the heart for the LP gas system. The LP gas in the tank is under high pressure. The regulator reduces the pressure of this gas so that it is safe to use with the various appliances in your unit. If corrosion is noticed, contact a qualified LP gas service technician. Do not adjust the regulator. It is factory preset. Adjustments are to be made by a qualified LP service technician using specialized equipment.

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

LP Distribution Lines

The primary manifold is a black steel pipe running the length of your unit. Most secondary lines leading to gas appliances are made of copper tubing with flare fittings. If any of the gas lines rupture, do not attempt to splice them. Always run a new line. We recommend gas distribution work be performed by an authorized service technician. The main valve at the LP tank must be closed when removing or servicing any gas appliance. This will prevent dangerous gas leakage that could result in an explosion and possibly serious injury. If a leak is suspected, have the systems inspected and repaired by a qualified service technician.

Precautions & Recommendations

- Inspect the LP fill valve for foreign materials before refueling.
- Shut the pilot lights off prior to refueling LP gas tanks.
- Never check for gas leaks with an open flame (match, etc.).
- Gas lines should be visually inspected periodically.
- Have the gas system inspected yearly and before and after extended trips.
- The gas system should be inspected and repaired by qualified technicians only.

WARNING

The LP system in your recreational vehicle is designed for liquefied petroleum gas only. Never attempt to connect natural gas or butane gas in this system.

FIRE SAFETY

The possibility of fire exists in all areas of life, and the recreational life-style is no exception. Recreational vehicles are complex machines. They are made up of many materials, some of which are flammable. Like most hazards, the possibility of fire can be minimized, if not totally eliminated. This is done by recognizing the danger and practicing common sense safety and maintenance habits. For safety reasons, your unit is furnished with both a fire extinguisher and a smoke alarm.

Fire Extinguisher

The fire extinguisher is rated for Class B (grease, gasoline, diesel fuel, flammable liquids) and Class C (electrical) fires. These are the most common types of fires in vehicles. Read the operator's manual and the instructions on the fire extinguisher. Be sure to know how and when to use the extinguisher and where it is located.

Fire extinguishers are mechanical, pressurized devices. Care must be exercised when they are handled. They must be maintained as the operator's manual instructs for proper and safe operation. The extinguisher should be inspected at least once a month. More frequent inspections may be required if the extinguisher is exposed to the weather or to possible tampering. Do not test the extinguisher by partially discharging. Doing this will cause a loss of pressure.

If a fire occurs in the vehicle, evacuate the vehicle as quickly and as safely as possible. Consider the cause and the severity of the fire and the risk involved before trying to extinguish it. If the fire is major or fuel fed, move away from and stand clear of the vehicle and wait for emergency assistance to arrive.

Smoke Detector

The battery powered smoke detector is mounted on the ceiling in the living area of the unit. Read the operating instructions for details on the testing and care for this important safety device. Test the smoke detector after the unit has been in storage, before each trip, and at least once a week during use. The detector should never be disabled because of nuisance or false alarm from cooking smoke or a dusty furnace. Ventilate the unit with fresh air and the alarm will shut off. Never disconnect or remove the battery from the smoke alarm. The battery should be replaced once a year or when the low battery signal sounds.

Emergency Exit Window

In the bedroom of the unit, there is an emergency exit (egress) window. This window is designed to be used as an additional exit in emergency situations. It can be easily identified by the red color of the handle and the red "EXIT" label. To open the egress window, lift the handle and push outward on the window. The window can be closed by pulling the window closed and lowering the handle to the down or locked position.

WEIGHT INFORMATION

Below is a sample of a weight information label which may appear in your unit.

| MOTORHOME WEIGHT INFORMATION | |
|------------------------------|--------------------------------------|
| Newmar Serial Number | xxxxxxx VIN # xxxxxxxxxxxxxxxxxxxxxx |
| Model | xxxxxxxxxxx |
| GVWR | xxxxxxx |
| UVW | xxxxxxx |
| NCC | xxxxxx |
| GCWR | xxxxxx |

GVWR (Gross Vehicle Weight Rating) means the maximum permissible weight of this motorhome. The GVWR is equal to or greater than the sum of the Unloaded Vehicle Weight plus the Net Carrying Capacity.

UVW (Unloaded Vehicle Weight) means the weight of this motorhome as built at the factory with full fuel, engine oil, and coolants. The UVW does not include cargo, fresh water, LP gas, occupants, or dealer installed accessories.

NCC (Net Carrying Capacity) means the maximum weight of all occupants including the driver, personal belongings, food, fresh water, LP gas, tools, tongue weight of towed vehicle, dealer installed accessories, etc., that can be carried by this motorhome. (NCC is equal to or less than GVWR minus UVW)

GCWR (Gross Combination Weight Rating) means the value specified by the motorhome manufacturer as the maximum allowable loaded weight of this motorhome with its towed trailer or towed vehicle.

This motorhome is capable of carrying up to xxx gallons of fresh water (including water heater) for a total of xxxx pounds.
Reference: Weight of fresh water is 8.33 lbs/gal.

CONSULT OWNER'S MANUAL FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES.

Weighing the Unit

The following definitions are given to help in communications of issues of weight and your unit.

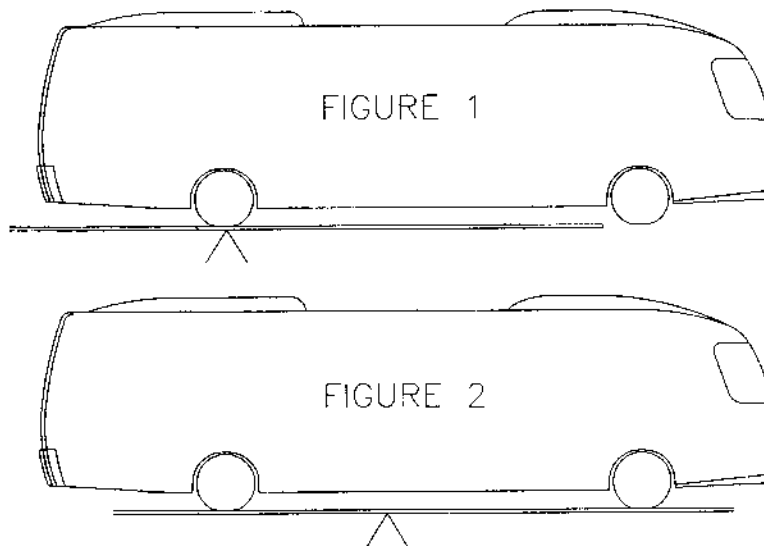
- GAWR:** Gross Axle Weight Rating means the maximum permissible weight for an axle. This takes into consideration the weakest link in the tire, wheel, brakes, hubs, axle, springs, and attaching parts. For example, if the axle is rated at 15,000 pounds and the tires are rated at 3,415 pounds each as a dual, the maximum GAWR would be 13,660 pounds with four tires.
- GCWR:** Gross Combined Weight Rating means the value specified by the manufacturer of the vehicle as the maximum allowable loaded weight of the vehicle with its towed trailer or towed vehicle.
- GVWR:** Gross Vehicle Weight Rating means the maximum permissible weight of this motor home. The GVWR is equal to or greater than the sum of the Unloaded Vehicle Weight plus the Net Carrying Capacity.
- UVW:** Unloaded Vehicle Weight means the weight of the motor home as built at the factory, with full fuel, engine oil, and coolants. The UVW does not include cargo, fresh water, LP gas, or dealer installed accessories.
- NCC:** Net Carrying Capacity means the maximum weight of all occupants, including the driver, personal belongings, food, fresh water, waste water, LP gas, tools, tongue weight of towed vehicle, dealer installed accessories, etc., that can be carried by the motor home. NCC is equal to or less than the GVWR minus the UVW.
- GVW:** Gross Vehicle Weight is the weight of the unit with all items and supplies that are loaded into the unit at any point in time.

To assure the accuracy of your weights be sure the unit is always level during weighing.

The unit has been built to comply with the component suppliers recommended limits and give you a realistic NCC. When loading the unit, distribute the items so that not all of the weight is added to one area of the unit. If you have questions as to what the weight of the unit is after it has been loaded, take the unit to a drive-on scale or use individual wheel scales and verify that the weights are within the limits of those specified for the unit. When weighing the unit follow these instructions. Failure to follow these instructions may give an erroneous weight reading.

NOTE: The sales literature may give approximates or standards. Each individual unit may weigh differently based on the factory and/or dealer options added.

Notes



1. Pull the unit onto the scales shown in Fig. 1. This is the total weight of the unit. To do this, pull the unit onto the scales so that all of the wheels are on the scale. Record the weight. This is the GVW and should not exceed the GVWR supplied by Newmar for the unit.
2. Move the unit so that the front wheels are off the scales as shown in Fig. 2. Record the weight. This is the total weight of the unit except for the front axle. This weight should not exceed the total rating of the axles remaining on the scales. The front axle weight is determined by subtracting this weight from the GVW that was obtained in Step One (1). This amount should not exceed the listed front axle weight rating.

Campsite Parking

If the campground does not have drive-through sites, it is recommended to stop near the site and inspect it for slopes or uneven areas. Back into the site carefully. Watch for low-hanging limbs, posts, large rocks, or other obstacles. Back the unit in so the site is on the driver's left, if possible. This will enable the driver to watch the rear of the unit. Back up slowly using the side mirrors as a guide or with the assistance of another person outside guiding the parking procedure.

Place the vehicle in neutral, set the air park brake, and turn off the ignition. If parked on a steep incline, pre-level the coach by driving the appropriate wheels onto blocks. Finish the leveling process by using the leveling jack system to level and stabilize the unit. Connect the 120 volt shore power to the unit. Open the LP gas valves at the LP tanks. Connect the fresh water supply and sanitize the water systems, if necessary. Connect the waste drain hose to the sewer hook-up. Start the refrigerator, water heater, and furnace, if needed. Light the oven pilot light, if applicable. Remember that the refrigerator will not operate efficiently if the unit is unlevel.

CAUTION

Do not lift the wheels of the unit off the ground at any time during this process. The unit can roll forward or backward when the weight of the unit is on the jacks.

Car Towing Hitch

The motorhome is equipped with a 5,000 pound hitch and wire connector. Your unit is designed for use as a recreational vehicle and is intended for towing light loads. The instructions for towing are listed in the chassis manufacturer owner's manual provided with your unit. The total weight of the motorhome and any vehicle towed by it must not exceed the GCWR. When weighing the motorhome, be sure to take passenger locations into consideration. The towed vehicles must have adequate brakes. The wire connector installed is the standard seven-pin connector. Chapter 7 of this guide will have more information regarding this connector.

Notes

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CHAPTER 3

AIR CONDITIONING & HEATING

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AIR CONDITIONERS

The air conditioners installed on your coach will operate only when the unit is supplied with 120 volt AC power from the power cord or the generator. The air conditioners circuit breaker must be in the ON position to work.

To assist the air conditioners in cooling the coach, park in the shade and keep the drapes or blinds closed. Set the thermostat to the desired temperature.

Air conditioners can use a large portion of the available electric power. RV parks may experience low voltage on days with high heat or humidity. This is commonly referred to as a "brown out." A "brown out" may trip the air conditioner circuit breaker. The circuit breaker protects your air conditioner from damage and is necessary during low voltage conditions. The tripped breaker is not a fault in your electrical system.

The cool air from the air conditioners is ducted throughout the coach through ceiling air ducts. Below is the thermostat that controls the air conditioner. It also controls the furnace. Simply select the desired temperature. The blower will cycle automatically, or you may choose low, medium, or high fan settings.

Both air conditioner units must be in the same mode. Please consult the air conditioner manufacturer's owner's manual for further assistance.

Step One: Move power switch to ON.

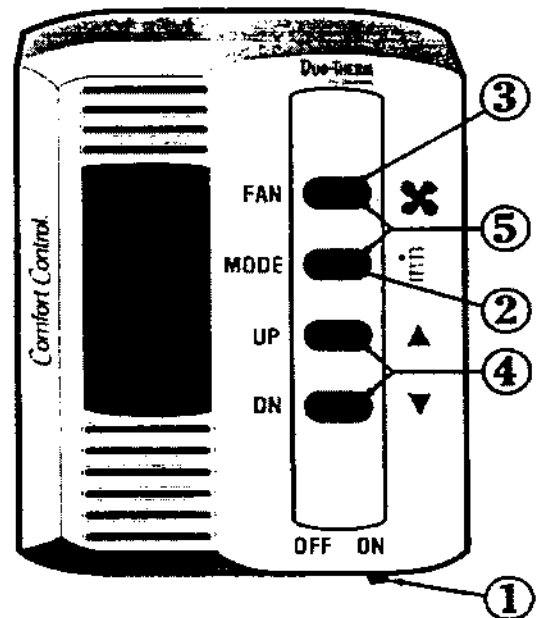
Step Two: Press MODE button to select function. (COOL*, FURNACE, FAN ONLY, etc.)

* There is an approximate 2-minute time delay after selecting cooling function for refrigerant compressor to start.

Step Three: Press FAN button to select fan speed or automatic operation.

Step Four: Press UP or DN button to set your desired temperature for the zone.

Step Five: If your vehicle contains more than one zone, depress FAN and MODE simultaneously to select zone 2, and repeat procedures from step 2 above. Repeat entire procedure for each additional zone.



Shutdown: If you turn the Comfort Control off or if there is a power interruption for any reason, the system will resume operation on the last settings when power returns.

FURNACE

WARNING

Never attempt to modify this furnace. Fire, explosion, asphyxiation, or carbon monoxide poisoning may occur. If the furnace malfunctions, consult a trained service technician.

The furnace installed in your unit is a forced-air furnace fueled by LP gas. The furnace is controlled by the air conditioner wall thermostat. This thermostat controls both the heating and cooling of the coach.

The heat is supplied to the unit through ducts in the floor. The furnace will not operate properly if the air flow at the floor registers, or the air return to the furnace, is blocked by personal or storage items. Storage under the cabinets should be done carefully to prevent crushing or damaging the furnace ducting or blocking of the warm air return.

Smoke and fumes may be created as a result of the residual burn off of the manufacturing compounds that are sometimes present the first time the furnace is used. This is normal. To minimize the smoke and fumes, the initial lighting of the furnace should be done with the windows and doors open. Continue until the residue is completely burned off.

To operate, set the thermostat to the desired temperature setting and turn the thermostat to the on position. Allow 60 seconds for the furnace to begin operating. To shut down the furnace, turn the thermostat to the off position. After the furnace has been turned off, the fan will run for approximately 60 seconds to cool down.

For your safety, do not use gasoline or other flammable liquids in the vicinity of the furnace or any other appliance. Clean the complete furnace and air tube passageways periodically to remove dust, lint, etc. Check the gas system for leaks at least once a year. Check and clean the blower wheel annually.

On the exterior of the coach you will find a furnace cover. There are no owner serviceable parts on the furnace. This cover should be removed by authorized service technicians only.

WARNING

Use caution when washing the exterior of your vehicle. Water should not be sprayed directly into the furnace vent. If water is forced beyond the rain baffles into the furnace vent, rusting of the furnace could occur. This could also cause improper combustion.

The furnace should be thoroughly cleaned before the start of each heating season. Any debris in the system may restrict air flow for combustion, bind the combustion air impeller, or prevent the blower motor from running properly. Also, check the burner pilot orifices for debris. Lint accumulations may cause the blower to become unbalanced, vibrate, restrict the ability of the blower to move air. If lint is blown into the heat exchanger, it may cause odors or create a fire hazard. Contact an authorized service technician for annual cleaning. Consult the manufacturer's operating instructions in your Owner's Package for further information.

WARNING

Portable fuel burning appliances are not safe for heating inside the recreational vehicle. Asphyxiation or carbon monoxide poisoning can occur.

LP TANK

This unit is equipped with an ASME (American Society of Mechanical Engineers) approved LP tank. This tank is controlled with an automatic pressure regulator. The LP tank contains liquid petroleum gas under high pressure. As the fuel is used, the liquid gas vaporizes and passes through the tank valve to a regulator that automatically reduces the pressure. The low-pressure gas is then distributed to the appliances throughout the pipe manifold system. Improperly adjusted regulators are the major cause of appliance lighting problems. Never attempt to reset the regulator. This is to be done by a qualified service technician. While in high altitudes or extreme cold weather a gas shortage may be experienced. Running one appliance at a time can help adjust to this problem.

It is recommended to have the LP system inspected by an authorized service technician at least once a year and after every extended trip. This system is tested by both the manufacturer and the dealer. Leaks can be caused by travel vibrations; therefore routine inspections are recommended.

The primary gas supply manifold is a black steel pipe running the length of the unit. Most secondary lines leading to the gas appliances are made of copper tubing with flare fittings. If any of these lines rupture, do not attempt to splice them. Always have a new line run. Gas distribution work must be performed by an authorized service technician. When removing or servicing any gas appliance, close the main gas valve at the LP tank. This will prevent dangerous gas leakage that could result in an explosion and possible serious injury. If a gas leak is suspected, have the system inspected and repaired by a qualified service technician as soon as possible.

WARNING

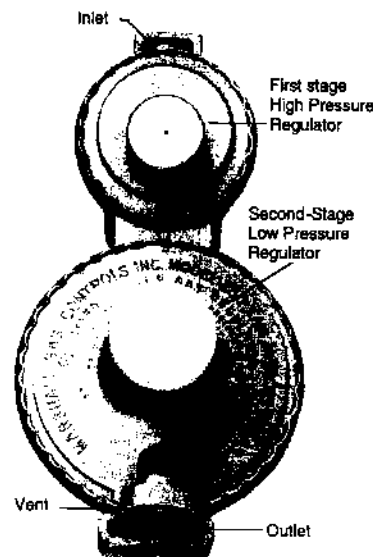
The main gas valve must be shut when the vehicle is not in use. Shut the valve off when refueling to avoid potential danger from pilot lights igniting fuel fumes. Gas valves on appliances with direct spark ignition (DSI) should also be in the off position. Do not store LP, gasoline, diesel, or other flammable liquids inside the vehicle. Fire or an explosion could be the result of ignoring this warning.

LP Tank Filling

Do not fill the tank to more than 80 percent of capacity. The unit must be level when filling the LP tank. If unlevel, overfilling may occur. Fire or explosion may be the result of uncontrolled gas flow from an overfilled tank.

LP Regulator

The regulator is the heart of the LP system. The regulator reduces the pressure of the gas so it is safe to use with various appliances. Regulators are equipped with a vent. In the event excess pressure builds up in the body of the regulator, a relief mechanism vents it to the atmosphere. It will vent until the pressure returns to the normal range. The vent must be kept clean and clear of obstructions or corrosion. A clogged vent could cause the failure of components. Contact a qualified LP technician if corrosion or obstruction is noticed.



The presence of moisture in LP fuel causes the regulators to freeze. The moisture will pass through the cylinder valve and into the regulator where freezing occurs. To help prevent the regulator from freezing, always keep the tank control valve closed when not in use, even when the tank is empty, to prevent moisture from collecting on the inside.

If moisture becomes a problem, consult an authorized LP service center for assistance.

The regulator must always be installed with the diaphragm vent facing downward. Please refer to Chapter 2 of this manual for further LP gas safety information.

LP Gas Detector

WARNING

Never check gas lines for leaks with an open flame. Do not check for leaks using ammoniated or chlorinated household type detergents. These detergents can cause cracks to form on the metal tubing and brass fittings. Take the unit to a qualified LP gas service technician to find and repair the leak. Keep the tank valve closed and all of the appliances turned off when the unit is stored. If any of the LP gas valves do not close leak-tight by hand, consult a service technician.

Liquid Propane (LP) gas is heavier than air and will settle to the lowest point of the room, which is generally on the floor of your coach. Because of this, the LP detector installed in your coach is located near the floor. The detector is also sensitive to other fumes, such as hair spray, which contain butane as the propellant. Butane, like propane, is heavier than air and will settle to the floor level where it may be detected. When this occurs, press the reset button to stop the alert sound for 60 seconds.

CHAPTER 4

APPLIANCES & ACCESSORIES

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MAJOR APPLIANCES

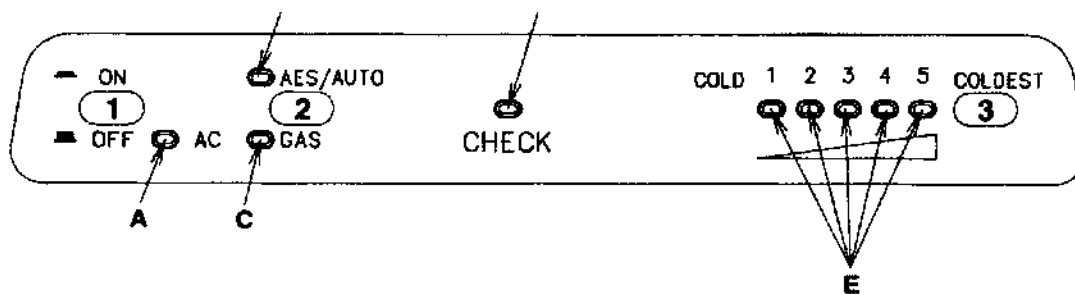
Refrigerator

Before starting the refrigerator, verify that the main LP gas valve is in the on position. The refrigerator is equipped with a semi-automatic energy selector (AES) control system. It can be set to select either 120 volt or LP gas operation, automatically, if desired.

WARNING

Most LP gas appliances used in recreational vehicles are vented to the outside of the vehicle. When parked close to a gasoline pump it is possible that the gasoline fumes could enter this type of appliance and ignite the burner flame causing a fire or explosion. Use caution when refueling.

A 12 volt power supply must be available for the electronic control panel to function. The shore line must be plugged in, or the optional generator running, to operate in the 120 volt mode. The main LP gas valve must be open for operation in the LP mode. To start the refrigerator, press the main power ON/OFF button to the ON position.



LEGEND 2-WAY AES Model

1. Main Power Button ON/OFF
2. AES/AUTO/GAS Mode Selector Button
3. Temperature Selector Button

- A. AC Mode Indicator Lamp
- B. AES/AUTO Mode Indicator Lamp
- C. GAS Mode Indicator Lamp
- D. CHECK Indicator Lamp
- E. Temperature Indicator Lamps

To use the 2-way Auto Mode, push the AUTO/GAS mode selector into the ON position. If 120 volt is available, the AC mode indicator light will be illuminated designating AC operation. If 120 volt is not available, the gas mode indicator light will be illuminated. The control system will automatically switch to gas operation. To operate on gas only, push the AUTO/GAS mode selector until the gas indicator light has lit. After 45 seconds the burner should be ignited and operating normally. The initial start up may take longer than 45 seconds in order to allow the air to be purged from the gas line. If the gas does not ignite within 45 seconds, the check indicator light will illuminate and the gas mode light will go off. If the check indicator light illuminates and the gas mode indicator light is off, then the controls have failed to ignite the burner in the gas mode. When the check indicator light is on, press the main power ON/OFF button to the off position to reset. Do not continue to reset the gas operation if the check indicator light continues to illuminate after several tries.

The thermostat on the refrigerator controls the gas and electric operation. This eliminates the necessity of resetting the temperature each time a different energy source is used. Press the temperature selector button until the light at the desired setting is illuminated. After the initial start up, the thermostat should be moved from the coldest setting to the desired setting, which is usually mid range.

An additional feature on the Dometic refrigerator is the installation of the automatic icemaker in the freezer compartment. For detailed operating instructions, please consult the manufacturer owner's manual in the Owner's Package.

Microwave

The microwave installed in your coach is a 30" convection microwave. All microwaves operate on 120 volt electricity. The microwave's control panel is the touch pad type. Simply enter the temperature, mode, and cooking time desired. With the standard convection microwave oven, the range installed will be a three (3) burner hot plate. The microwave is plugged into the electrical outlet through an optional surge protector. This will help protect the microwave in case of an electrical surge. For instructions on how to operate any of the special features on the microwave oven, please refer to the microwave owner's manual in your Owner's Package.

Range Hood

The range hood is incorporated into the microwave. The microwave's control panel operates the range hood functions. This range hood has both a fan and a light for your convenience. The fan has two speeds which are low and high. Simply select the desired setting from the microwave's control panel. For further detailed information on the hood operation, refer to the microwave owner's manual.

Range

There is no pilot light for the range. The burners are controlled by a spark ignition. There are different models used in the Newmar product line with different types of controls. To light the burners on some models, turn the control knob to turn the gas on. Wait a couple of seconds, then push the red spark button until a flame appears. On other models turn the spark control knob until a flame appears. All burner controls operate counter clockwise and have to be pushed inward in order to turn. For further instructions, please refer to the oven manufacturer owner's manual in your Owner's Package.

The following warning label has been placed in the cooking area to remind the user 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:

1. Open overhead vent or turn on an exhaust fan.
2. Open a window.

Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle. Proper ventilation when using the cooking appliance(s) will avoid dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time. The following label has been placed in the vehicle near the range area:

If You Smell Gas:

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

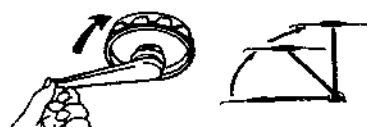
TELEVISION OPERATION

Winegard Television Antenna

The TV antenna in your coach is designed for reception of all color and black-and-white channels. If the reception is poor, you should verify that the power switch is in the "ON" position and that all of the connectors are tight. If poor reception still occurs, consult your authorized dealer.

To raise the antenna into the operating position, turn the elevating crank (clockwise) in the "UP" direction, about 13 turns, or until some resistance to turning is noticed. On the power booster, turn the switch to "ON" in order to amplify the signal being received. Once in the "UP" position, rotate the antenna to receive the best picture. This is done by pulling down on the directional handle with both hands until it disengages from the ceiling plate and then rotating it until reception has improved. The antenna must be lowered before moving the vehicle. To lower, rotate the directional handle until the pointer is aligned with the pointer on the ceiling plate. Turn the elevating crank (counter-clockwise) in the "DOWN" direction, about 13 turns, or until some resistance to turning is noticed. The antenna is now locked and in the travel position.

RAISING ANTENNA TO OPERATING POSITION



ROTATING ANTENNA FOR BEST PICTURE



LOWERING ANTENNA TO TRAVEL POSITION



CAUTION

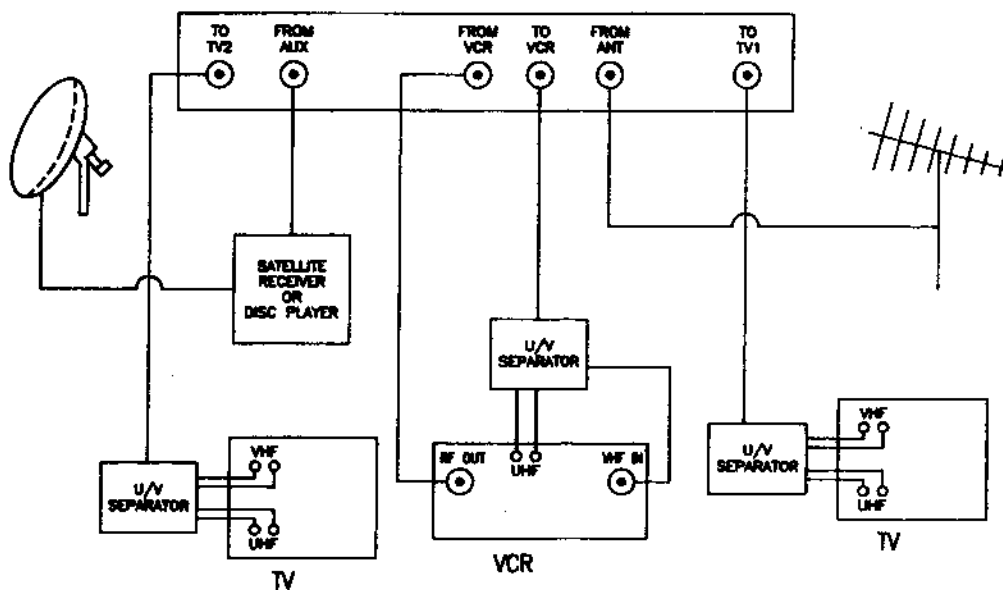
Under no circumstances should you lower the antenna in any position except the travel position.

Television

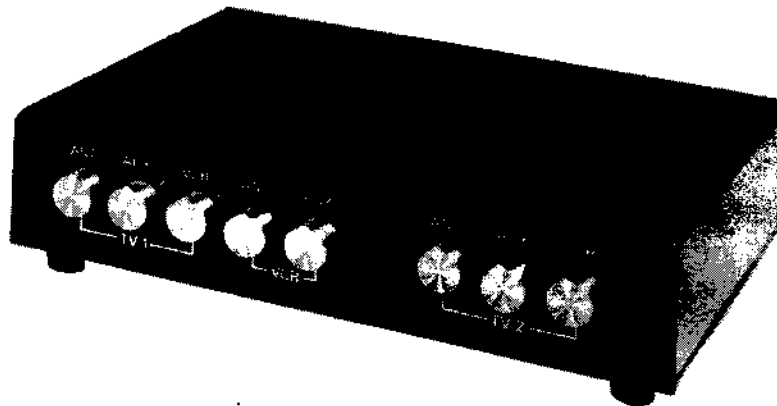
The coach is cable ready and as standard equipment has a 21" flat screen color television under the dash overhead with a power lift and a 20" television/VCR combination with a clock radio in the bedroom. The televisions are powered by 120 volt electricity. Your coach must be plugged into shore power, or have the generator running, in order for the television to operate. The television located under the dash overhead is viewed by first unlocking the retaining door. Once the door is opened, press the TV Actuator button to lower the TV. The button can be found in the passenger side overhead compartment. Once lowered, turn on the television, VCR and dash stereo. The VCR controls the channels, and the dash stereo controls the sound for the television. On the dash stereo, press the source button twice. Press the mode button until "AUX PLAY" is displayed. The television is now ready for your viewing enjoyment. To properly store the television, turn all devices off. Press the TV Actuator button to store the television. Once the television is raised completely, close the retaining door. The operation of the television installed in the bedroom of the unit is similar to most televisions used in the home. The main unit has the basic ON/OFF, VOL(ume) UP and DOWN, CH(annel) UP and DOWN, and MENU UP and DOWN buttons. Standard on this unit is an exterior television jack located on the door-side of the coach. Please consult your television owner's manual for further information.

Video Control Center

Installed in your vehicle as part of the standard equipment is the Audio Video Control Center (AVCC). The AVCC will direct the signal to one or two televisions and one VCR. Simply push a button to select what is viewed and where. To control what is being viewed on the front television use the selections for "TV 1." To control what is being viewed on the bedroom (and outside television, if desired) use the selections for "TV 2." Each television is capable of viewing different programming at the same time. For example, by selecting "ANT" for "TV 1"



you are able to watch your favorite network broadcast on the front television, while a movie from the VCR is being watched in the bedroom or outside, after selecting the "VCR" button for "TV 2." This control center is capable of receiving three sources of input. They are "FROM ANTENNA," "FROM VCR," and "FROM AUX." The "FROM AUX" selection is used for cable input. It will also accommodate video game systems or a satellite dish.



Video Cassette Recorder

The video cassette recorder (VCR) is installed in your coach as standard equipment. It is in the living room entertainment center. The controls are on the face of the VCR and on the remote control. For more detailed information regarding the VCR functions consult the VCR operator's manual in the Owner's Package. The video switch described above will assist you in directing the VCR signal to the television of your choice.

Cable & Telephone Jack

The exterior cable jack and receptacle are standard features on this coach and are installed in the compartment beside the entrance door. Another standard feature on this coach is the telephone hook up. This will allow the user to connect the coach to a telephone cable if the park is so equipped. This feature includes the connector for the incoming telephone line and two telephone outlets inside the coach.

Stereo

The standard dash stereo installed in your coach is an AM/FM stereo with a compact disc player. The CD player is a remote 8 disc changer with an amplifier and subwoofer. Also part of the dash stereo is a rear view color monitor system. The stereo operates on 12 volt electricity from the coach batteries. There are speakers located throughout the coach for listening pleasure from your surround sound entertainment system. For further information on the operation of the stereo or rear view color monitor system, consult the manufacturer's owner's manuals in the Owner's Package.

WATER HEATER

WARNING

Do not light the water heater until it is filled with water. There is a switch on the exterior of the water heater labeled "Electric." This switch must be in the "ON" position for the water heater to work in the electric mode.

Before using the water heater, fill the fresh water system. Purge any air from the water heater by opening all hot water faucets until water flows steadily from each one. The water heater installed in this coach is a PrecisionTemp RV500 model.

It is important to read all of the safety information provided in the water heater manufacturer's operation manual in the Owner's Package. This appliance does not have a pilot light. It is equipped with an ignition device that automatically lights the burner. Do not try to light the burner by hand. Before lighting, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor. Consult the Operation Manual for further instructions if a gas leak is noticed. The gas valve is fully automatic; no adjustments are necessary. Read the safety information provided in the Operation Manual before lighting the appliance.

Turn on the electrical power supply. The green LED light should now be flashing on the front of the electronics drawer. (The front cover must be opened to observe the LED.) This indicates normal operation. Close the front cover. Turn on the propane supply at the tank and the manual gas valve, if installed in the system. The water heater will remain dormant until a faucet is opened and the water heater senses a water flow of at least .4 gpm. Turn on a hot water faucet. The water heater will fire up within two seconds and hot water will flow from the tap in the time that it takes to get through the plumbing from the heater to the faucet. Hot water delivery will continue as long as the water is flowing. (Note: It may be necessary to turn the water on and off several times to bleed the air from the LP gas lines before the water heater ignites.) If the water heater fails to light after several ignition attempts, turn the power to the unit off, wait five (5) seconds, turn the power on and attempt ignition again.

WARNING

Do not store any combustible materials or liquids near or adjacent to the water heater.

Water Heater Storage

When storing your coach for the winter months, the water heater must be drained to prevent damage from freezing. The first step is to turn off all electrical power and LP gas going to the water heater. The water pump must also be turned off. Open both the hot and cold water faucets to drain the lines. Open the drain on the water heater. Drain the entire water system. When preparing the coach for use after it has been stored, make certain the water system, including the water heater, has been filled before re-lighting the water heater. Failure to fill the water heater before lighting may damage the water heater and void the warranty.

Pressure Relief Valve

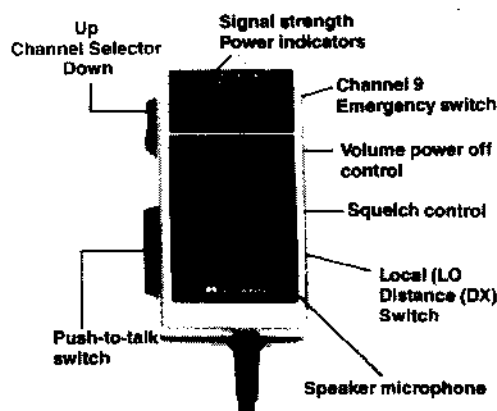
The temperature and pressure relief valve is located on the exterior of the water heater. It is designed to open if the temperature of the water within the heater reaches 210° F, or if the water pressure in the heater reaches 150 pounds. Recreational vehicle water systems are closed systems and during the water heating cycle the pressure build-up in the water system may reach 150 pounds. When this pressure is reached, the pressure relief valve will open and water will drip from the valve. This dripping will continue until the pressure is reduced to below 150 pounds, and the valve closes. This condition is normal and does not indicate a defective relief valve.

WARNING

Do not plug the relief valve under any circumstances.

CB Radio

This coach is equipped with a citizens band (CB) radio. This radio can be used to communicate with other travelers on the road. The model installed is a remote type. The hand held microphone/speaker contains the power, volume and channel controls. Simply turn on using the power/volume control. Then select the channel you wish to monitor. Press the "Push-to-Talk-Switch" to transmit and release to receive. For more information regarding the operation of this CB radio, please consult the radio manufacturer's Owner's Manual.



Air Horns

Air horns has been installed on this coach. This air horn is in addition to the horn installed on the chassis. A switch located on the dash allows you to choose either the chassis horn or the air horn. To operate either horn, press the center of the steering wheel.

Cellular Antenna

The installation of an antenna for use with a cellular telephone is a standard feature on this coach. The antenna is installed on the roof for optimum transmission and reception with most cellular telephones. The antenna wires terminate under the dash for ease of connection.

Freezer

The installation of a 100 pound Norcold Freezer in an exterior storage compartment is standard on this coach. This freezer operates on 12 volt and 120 volt electrical power. The

freezer is on slides to move easily in for storage while traveling or out for pre-travel packing or campsite unloading. For detailed instructions on the operation and maintenance of this freezer, please consult the freezer manufacturer owner's manual in the Owner's Package provided with this coach.

Safe & Security System

For your safety and the safety of your belongings, this coach is equipped with a safe and an electronic security system. For operation of these items, refer to the manufacturer owner's information in the Owner's Package.

Coffee Maker

An under-the-cabinet coffee maker is standard in this coach. This coffee maker is equipped with a clock and a timer to have coffee ready and waiting when you wake up. Refer to the manufacturer's information for more details.

Icemaker (Optional)

A possible option on some models is the installation of an icemaker. The icemaker operates on 120 volt electricity. If optioned, it would be installed under the three burner hot plate. For detailed information, consult the icemaker manufacturer owner's manual in the Owner's Package provided with your new coach.

Washer/Dryer

The plumbing and installation of a one-piece washer and dryer are standard on this coach. For detailed information on the operating instructions, read the appliance owner's manual in the Owner's Package.

CAUTION

The grey tank valve must be in the "open" position when operating the washing machine.

Carbon Monoxide Detector

Carbon monoxide is a colorless, tasteless, odorless gas. It is a by-product of the burning of fossil fuels (gasoline, LP gas, diesel fuel, etc.). The chassis and generator engines, furnaces, water heater, LP gas refrigerator, and range produce carbon monoxide constantly while they are operating. Carbon monoxide is DEADLY. Please read and understand the following precautions to protect yourself and others from the effects of carbon monoxide poisoning.

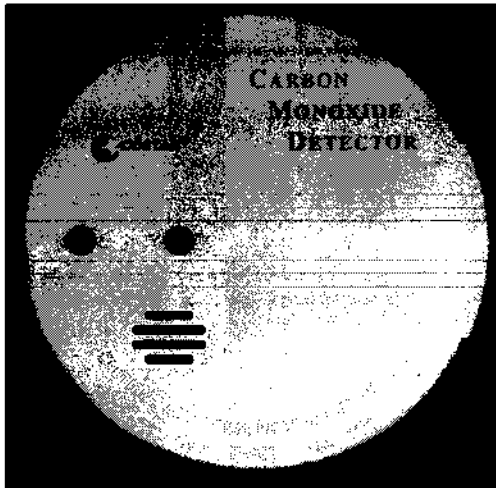
WARNING

Exhaust gases are deadly. Do not block the tailpipes or exhaust ports. Do not 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. Outside air movements can carry exhaust gases inside the vehicle through windows or other openings remote from the exhaust outlet. Operate engines, carbon monoxide-producing systems, or components only when safe dispersion of exhaust gases can be assured. Monitor outside conditions to be sure that exhaust continues to be dispersed safely.

If you, or anyone else, experience any carbon monoxide symptoms (dizziness, nausea, vomiting, muscular twitching, throbbing in the temples, inability to think coherently, weakness and sleepiness, or intense headaches) exit the coach immediately. Seek medical attention if symptoms persist. Shut down the unit and do not operate it until it has been thoroughly inspected and repaired.

WARNING

UNDER NO CIRCUMSTANCE SHOULD YOU OPERATE ANY ENGINE WHILE SLEEPING. When you are sleeping you will not be able to monitor outside conditions to assure that engine exhaust does not enter into the coach. Check the exhaust system frequently for damage. If damage is found, do not operate the system. Never modify the exhaust system(s) in any way.



The detector is equipped with a "sensor activation strip." This strip must be removed for the detector to operate properly. This should have been done during the dealer's Pre-Delivery Inspection. Please check the detector to verify that the activation strip has been removed.

Please consult your carbon monoxide detector user's guide for more detailed information.

CHAPTER 5

CABINETS & FURNITURE

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CABINETS

The cabinets in this unit are constructed on site at the Newmar production facility. Cherry cabinetry and cherry hardwood doors with cathedral style raised panels are standard throughout the unit. There are two decor options regarding the cabinetry. They are oak and frosted maple. All decors have brass door and drawer handles. These give the interior an added touch of class.

Storage is an important factor to all RV owners. Keeping this in mind, the cabinetry is structured to provide as much storage as possible. In the bedroom on all models, the bed platform lifts for convenient storage. This platform is held open by pressurized struts to allow hands-free access.

The Corian counter top in the kitchen has an integrated Corian sink. In the bath, the Corian counter top and integrated Corian lavatory are all in one. On most floor plans, the "drawer" directly in front of the kitchen and lavatory sink does not pull out, but rather flips down. This provides a storage tray for dish cloths, scouring pads, wash cloths, etc.

Metal drawer guides are standard on all of the drawers throughout the unit. These guides provide a smooth opening and closing of the drawers. To open a drawer, lift up slightly and pull open. The way this mechanism works will prevent the drawers from unintended opening while traveling. The drawers are constructed with maple panel bottoms for added strength. All of the cabinets are equipped with positive door catches and knife hinges. The catches secure the door in the closed position for extra security while traveling.

All of the cabinetry can be easily cleaned with any commercial furniture cleaner or polish. As with any wood product, do not saturate these cabinets with water or any other liquid. Be sure to wipe up spills as they occur to avoid staining.

One of the wardrobe cabinets in the bedroom is lined with cedar paneling. All of the wardrobes have automatic lights that come on when the door is opened.

FURNITURE

Living Room/Kitchen Area

A standard feature in the kitchen area is a dinette table with a Corian insert top. Two fixed chairs and two folding chairs accompany this table. The chairs are upholstered with a coordinating fabric to match your decor. Optional is the combination desk/dinette table. This would replace the standard table.

The driver and passenger seats are equipped with three-point seat belts. These should be used whenever the vehicle is in motion. To adjust these chairs for driving ease, the eight-way electric powered bases move the chairs forward and backward, as well as up, down, forward, and reverse tilt. These chairs also have swivel and recline features. When the unit is not in motion, they can be swiveled to face the living room of the unit. To turn the chairs, first extend the slide out room. Then move the chair backwards all of the way to provide enough clearance for the steering wheel. Once this is done, the chair will swivel without interference. In addition, these leather chairs have a power lumbar support installed. The control switch is located on the left side of the chair in front of the power base controls. Pushing the switch forward will inflate the support while pushing back will deflate it.

Also standard in the living room is the Flexsteel L-Lounge leather/vinyl sofa with incliner. There are various options that can replace the standard living room furniture. Some of these options include the Flexsteel dual incliner sofa (fabric or leather), a Flexsteel leather sofa, and the Flexsteel leather/vinyl recliner and lamp stand.

The mattress installed in this unit is a luxurious pillow-top mattress. The decor coordinating bedspread is included as part of the standard package.

Notes

[illegible]

CHAPTER 6

STRUCTURE FEATURES

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CHASSIS FEATURES

The chassis that this motorhome was built on is warranted by the original chassis manufacturer. The operating instructions are included in the Chassis Owner's Manual provided with this unit. Please read the Chassis Owner's Manual before driving the unit. If you have any questions about the chassis, please contact the chassis manufacturer.

ALIGNMENT

The motorhome you have purchased has been aligned prior to shipment. During the first 10,000 miles, due to your loading of the vehicle, the chassis suspension will 'settle in.' Re-alignment prior to the first 10,000 miles is usually not necessary. However, it is recommended to have the alignment checked after the first loading of the vehicle. If you feel a serious steering concern exists, please contact your chassis manufacturer or call Customer Service at 800-731-8300.

Notes

[illegible]

CHAPTER 7

ELECTRICAL FEATURES

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ELECTRICAL SYSTEMS

General Information

There are two electrical systems in your coach. They are the 12 volt DC system and the 120 volt AC system. Most standard appliances require 120 volt electricity while the majority of the lighting used in recreation vehicles is powered by 12 volt electricity. The power for the 12 volt system is supplied by the coach batteries, which are charged by the Heart Freedom 20 Inverter/ Converter. The power for the 120 volt systems is supplied by the power cord when the unit is connected to an outside power source or by the generator. The inverter can also supply 120 volt power. It will transform 12 volt electricity from the batteries into 120 volt power for basic appliances.

CAUTION

Failure to turn off the 120 volt appliances when starting or stopping the generator may damage the transfer switch and/or electrical appliances.

To connect the unit to 120 volt shore power, first make sure all of the breakers are in the off position. This is done to avoid a power surge. Unwind the power cord from the electrical compartment. The standard electrical service in this unit is 50 amps with a flexible 50 amp power cord. This power cord has a 12 volt cord reel for automatic rewinding of the cord. Check to make sure the pins in the outlet are oriented correctly, that they match the power cable, and that they are in good condition. If there is a circuit breaker switch at the plug, it should be turned OFF before making the connection. Insert the plug completely into the outlet and turn the circuit breaker on. Close and lock the electrical compartment door to keep the contents clean, dry, and secure. Close the cover on the power box, if equipped, to avoid an unintended disconnection and to keep contents clean. Switch the main breaker to the ON position. The 120 volt system will energize all 120 volt circuits and outlets when the main breaker is turned on.

Breaker Boxes

The 120 volt and 12 volt breaker boxes are generally located in the overhead cabinet on the rear bedroom wall. Circuit breakers and fuses are installed to protect the electrical system from overloading. Do not attempt to change the circuitry or add appliances yourself. Please consult an authorized Newmar Service Center.

Electrical Diagrams

In Chapter 15, you will find typical 12 volt and 120 volt electrical diagrams.

Batteries

The chassis batteries on your motorhome are installed and warranted by the chassis manufacturer. The four 6 volt coach (or house) batteries on your motorhome are installed by Newmar Corporation but are warranted by the battery manufacturer. These batteries are used to operate the 12 volt items that are not a direct part of the chassis. They are located on a pull out drawer in an outside compartment.

CAUTION

Do not use the motorhome with the coach batteries disconnected.

The coach and chassis batteries are recharged by the vehicle's electrical system whenever the engine is running. A decline in the coach battery voltage may be noticed while the chassis batteries are being charged. The converter will automatically charge the coach batteries when the unit is connected to a 120 volt outside power source. The chassis batteries are isolated from the coach batteries. This prevents the chassis batteries from being drained by the interior 12 volt equipment, allowing ample voltage for engine ignition.

Battery Boost Switch

The battery boost switch is located on the dash. This switch briefly connects the coach batteries to the chassis batteries. This allows the chassis batteries to borrow power from the coach batteries to assist in starting the engine. If the chassis batteries cannot turn the engine over in the normal mode, hold down the battery boost switch and attempt ignition. By using the battery boost switch while trying to start the chassis engine, a jump start situation is created between the coach and chassis batteries. If the battery boost switch is required to start the engine on a regular basis, ask your dealer to check the chassis batteries and charging system.

Battery Inspection & Care

WARNING

Remove rings, metal watch bands, and other metal jewelry before working around batteries. Use caution when using metal tools. If a tool contacts a battery terminal or metal connected to it, a short circuit could occur which could cause personal injury, explosion or fire.

CAUTION

Disconnect the 120 volt electrical power cord and the negative terminal from the coach batteries before working on the electrical system.

Remember that when batteries are not used for an extended period of time, they may lose their charge. Periodic charging of the batteries during storage of the unit will increase the life of the battery. Check the external condition of the battery periodically. Look for cracks in the

cover and case. Check the vent plugs and replace them if they are cracked or broken. Keep the battery clean. Accumulations of acid film and dirt may permit current flow between the terminals, which could drain the battery.

To clean, wash the batteries with a diluted solution of baking soda and water to neutralize any acid present. Rinse thoroughly with clean water. Foaming around the terminals or on top of the battery is a sign that acid is being neutralized. Avoid getting the baking soda solution in the battery. Secure all vent caps. Dry the battery cables and terminals to prevent corrosion. Do not use grease on the bare metal inside the cable terminals. Grease can act as an insulator, and electricity will not flow through it. A plastic ignition spray will protect the terminals after they have been cleaned.

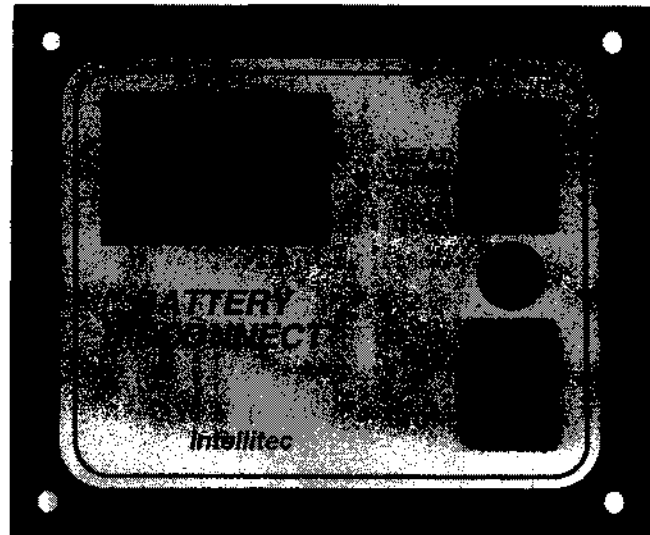
WARNING

Do not allow the battery fluid to contact your skin, eyes, fabric, or painted surfaces. The fluid could cause serious personal injury or property damage. Wear eye protection when working with any battery.

The batteries should be removed and stored in a warm place when not using your motorhome for an extended period of time. Mark the cables, positive and negative, for easy identification. Batteries are not to be stored on concrete floors. The batteries require periodic charging during storage. If the motorhome is to be stored for a long period of time, it is recommended that all of the batteries inside the unit be removed from clocks, radios, smoke alarms, etc. This will prevent unnecessary drain and corrosion of the batteries. The coach batteries are 6 volt RV/Marine deep cycle batteries. This type of battery consumes water and must be filled periodically. Consult the owner's manual supplied by the battery manufacturer. This can be found in the Owner Information Package received with this unit.

Battery Disconnect Panel

The battery disconnect panel is located above or near the entrance door. There are two switches on the panel. The top switch is used to measure the battery voltage. The lower switch is used to disconnect the battery when the unit is stored for any period of time. Pressing downward disconnects the coach batteries, not the chassis batteries. This is done to prevent the coach batteries from being drained during storage. It disconnects all of the 12 volt circuitry from the batteries, with the exception of the CO and LP detectors. For information regarding the disconnection of the power to the two detectors, see DETECTORS. When taking the unit out of storage, press upward to re-connect the batteries. This will make the 12 volt system ready for use.



Diesel pusher motorhomes are equipped with a second disconnect switch strictly for the chassis batteries. This "Master Kill Switch" is located in the rear engine compartment. It is used to prevent accidental ignition when the engine is being serviced.

12 Volt Receptacles

Your unit is equipped with several 12 volt receptacles conveniently located in the dash area. One is located on each of the ashtrays beside the driver's or passenger's chair. There are also two other receptacles located on the dash. These 12 volt receptacles can be used for items such as cellular phones or personal computers.

120 Volt Receptacles

For your convenience, there are 120 volt receptacles located throughout the interior of the unit. These receptacles require three-pin plugs that provide proper grounding to protect you from electrical shock. Do not use an adapter, cheater, or extension cord that breaks the continuity of the ground circuit to the ground pin. Never remove the ground pin from a plug in order to connect it to a two-pronged ungrounded outlet. Never operate the camping vehicle with an electrical short. An electrical short may cause the exterior of the unit to shock you when touched. If you feel even the slightest shock, disconnect the unit from the 120 volt power source and locate the fault. It is usually a break in the grounding circuit. The grounding circuit must be continuous from the frame to the distribution panel, to the power cord, and to the earth ground.

Ground Fault Circuit Interrupt Receptacles

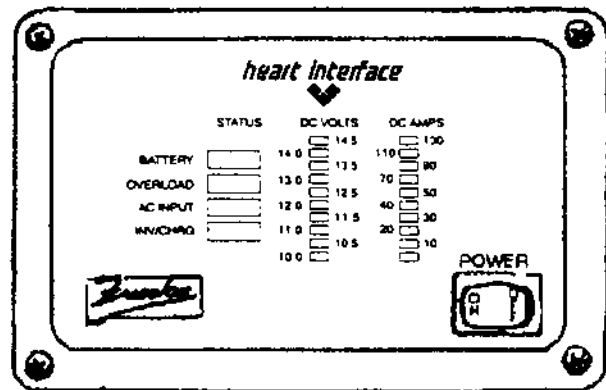
The 120 volt electrical outlets in the kitchen and bath area are ground fault circuit interrupt (GFCI) receptacles. The GFCI outlets provide an overload and short circuit protection. The electrical outlets located in the slide out are wired through the kitchen GFCI. The exterior electrical outlets are wired through the bathroom GFCI. If an item plugged into a slide out or outside receptacle is not working, check for a tripped GFCI in the kitchen or bathroom. In addition, these outlets protect the user from ground faults between a hot wire and ground. The GFCI will not reduce the shock hazard if the short is between a neutral and hot wire, or two hot load wires.

The GFCI should be tested at least once a month. The 120 volt electrical system must be on in order to test the GFCI. The reset button needs to be pushed in all of the way before starting the test. Push the test button. This will cause the reset button to pop out which means that the protected circuits have been disconnected. Push the reset button back in until a click is heard. This will reactivate the protected circuit. If the GFCI is working properly the reset button will remain in the "IN" position.

Notes

Heart Inverter/Converter

When 120 volt power is not available, either from the power cord or the generator, simply turn on the Heart Inverter/Converter. The control panel for the inverter is located above or near the entrance door. Once turned on, the inverter transforms 12 volt power to 120 volt power for the operation of lights, appliances, televisions, etc. The 120 volt power that is generated from the inverter is routed to the electrical sub-panel located next to the main breaker box in the cabinet above the bed. The breakers in the sub-panel are labeled to explain where the 120 volt power is routed. It generally supplies power to the microwave, kitchen, bath, and bedroom lighting and receptacles. The inverter is equipped with an automatic transfer switch. This allows automatic switching from inverter to converter. When you are connected to an outside power source or running the generator, the converter (in the inverter) will automatically switch on to charge the 12 volt batteries. For more detailed information consult the manufacturer owner's manual located in the Owner Information Package.



Daytime Running Lights

This unit is equipped with the daytime headlight system. This feature will cause the headlights to activate automatically when the ignition is on. The headlights are on, but dimmer than normal. At dusk, the driver is required to turn the headlights on by using the headlight switch. This will allow the driver to control the bright or dim capabilities of the headlights.

Spotlight

The spotlight installed on the roof of the unit is controlled by the toggle switch on the dash. The light can be turned on or off and can be moved in various directions.

ICC Flasher

On the dash you will find a switch labeled "ICC Flasher." This switch is a momentary type of switch. This means it is only active while the switch is being pressed. It enables the driver to communicate with other traffic by flashing the clearance and side lights of the coach. If the lights are on, it will turn them off. If the lights are off, it will turn them on.

Generator

The generator is located in a compartment in front of the motorhome. It is mounted on slides for easy access. The slides for the generator must be unlocked before free movement is allowed. Prior to starting or stopping the generator, make sure all of the 120 volt appliances

are turned off. After the generator has started, wait until the transfer switch has connected before turning on any of the appliances. The generator can be started from either the remote start switch located on the dash or directly at the generator itself. The hour meter installed on the generator calculates the number of running hours of the generator motor. This is used for maintenance schedules.

CAUTION

Failure to turn off the 120 volt appliances when starting or stopping the generator may damage the transfer switch and/or electrical appliances.

Consult the manufacturer owner's manual for detailed operating instructions.

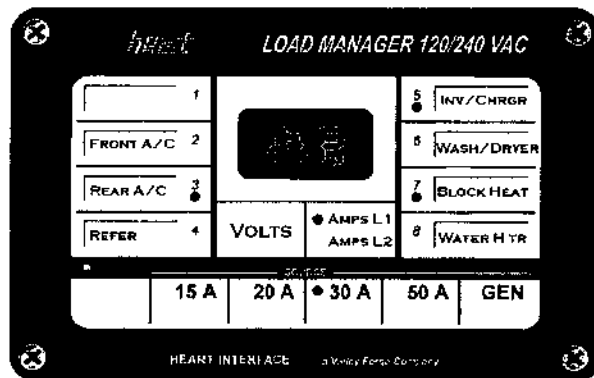
Automatic Transfer Switch

Your unit is equipped with an automatic transfer switch. When the generator is turned on, this switch automatically transfers from shore power to generator power. There will be a slight delay between the start of the generator and the electrical connection. This delay allows the generator to reach normal operating speed without needing to supply a required load. When the unit is plugged into the outside power source, a click will be heard in the transfer switch box. The sound is normal and indicates that the unit is changing over to the outside power source.

Energy Management System

The AC Load Manager's primary purpose is to prevent overloading the AC system. Whether it is being used to protect a generator from being overloaded, or to eliminate the possibility of blowing a main breaker on a shore power source, the function is the same. The effectiveness of automatically managing loads properly depends on the main breaker size of the RV. The AC Load Manager will operate properly, without manual load managing,

if the service is about half of what is required. For example, since this unit is equipped with a 50-amp service, it can operate when connected to a shore power source with either a 30-, 20- or 15-amp service.



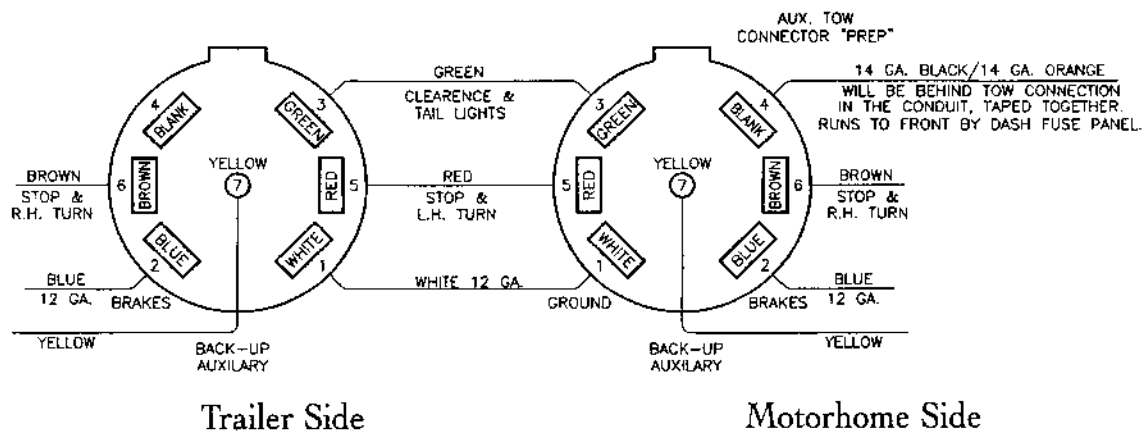
Notes

Wiring Connector

Standard on all Newmar motorhomes is the car towing hitch. This allows the consumer the capability of towing their passenger car while traveling. Also installed with the hitch is the wiring pigtail to connect tail lights, brake lights, turn lights, etc. of the towed vehicle with that of the motor home. The pigtail used is the standard seven-pin connector. The color scheme for the pigtail is as follows:

| | | |
|--|-------------------------------------|-----------------------|
| Stop & Left Turn SignalRed | Stop & Right Turn Signal . . .Brown | GroundWhite |
| Clearance & Tail LightsGreen | BrakesBlue | |
| Aux. Tow Connector PrepBlack | Back-up LightsYellow | |

Below is the diagram of both the trailer and motor home side of the pigtail. As stated above, this is a standard seven-pin pigtail.



Notes

[illegible]

RESETTABLE BREAKERS

The resettable breakers are located within 18 inches of the source of power. This is the converter and the battery. (Figure 1)

When either of the breakers are shut down they must be manually reset.

To find the breakers, follow the line from the battery or converter approximately 18 inches.

This may lead to a junction box or to a cabinet inside the unit or similar location.

Manually reset the breaker as shown at right in Figure 2.

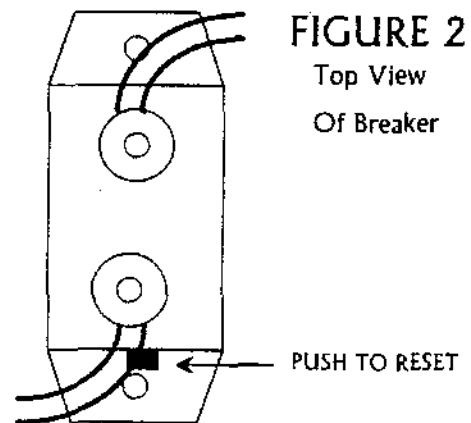


FIGURE 2
Top View
Of Breaker

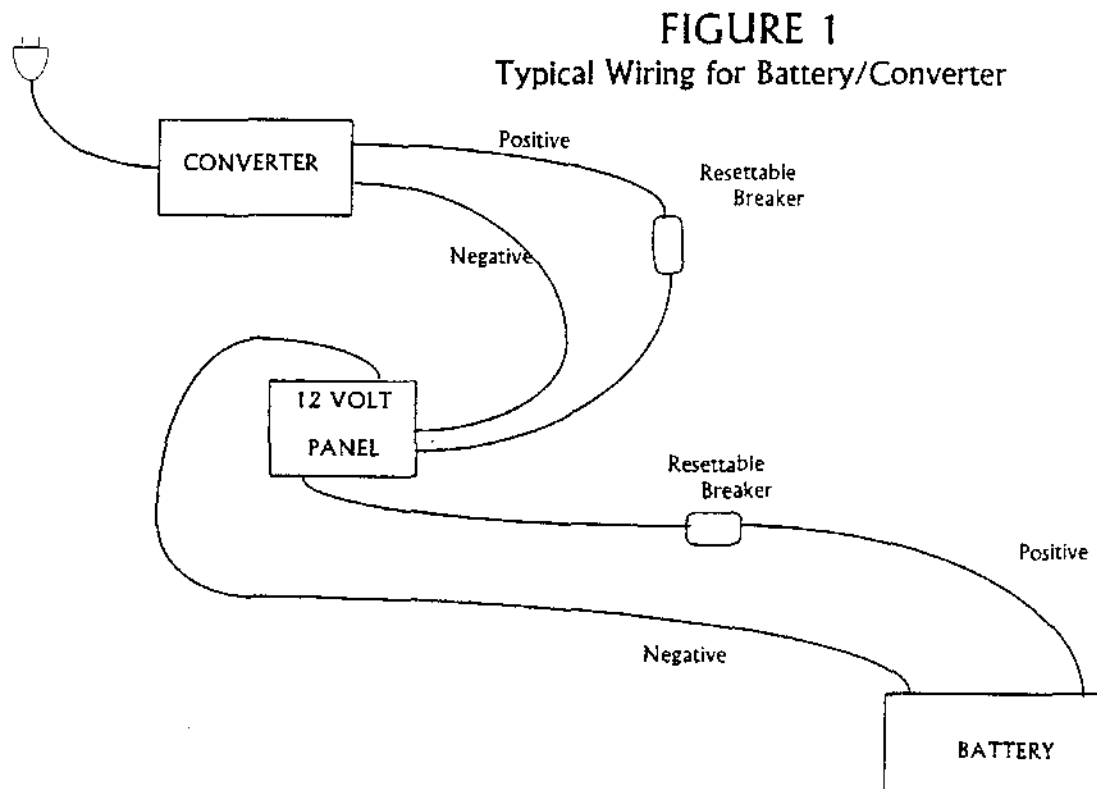


FIGURE 1
Typical Wiring for Battery/Converter

CHAPTER 8

SLIDE OUT FEATURES

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| Retracting | 8 - 2 |
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WARNING

READ THE FOLLOWING SLIDE OUT ROOM INSTRUCTIONS BEFORE ACTIVATING THE SWITCH.

CAUTION

The leveling jacks must be extended and the unit level before operating the slide out.

GENERAL INSTRUCTIONS

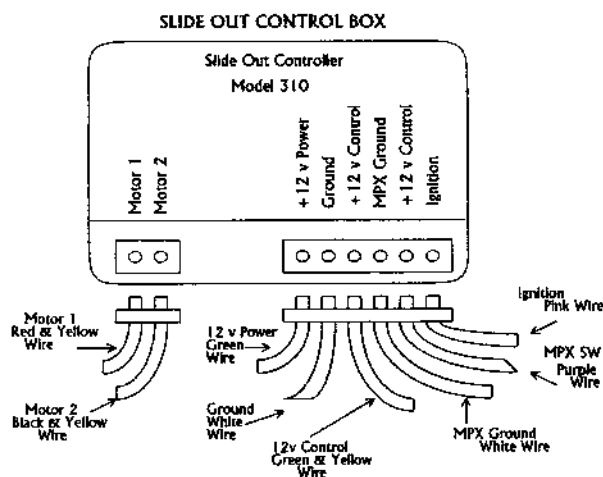
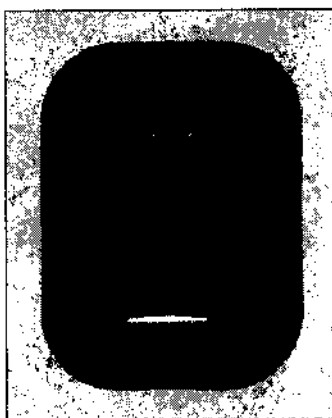
IMPORTANT

The slide out room should be inspected for alignment every six (6) months. If alignment is necessary, have the room adjusted.

1. The slide out room can be stopped at any time by activating the slide out switch. The room will reverse directions each time the switch is activated.
2. If the slide out room stops before reaching the full "OUT" or "IN" position, the slide out controller may need adjustment.
3. To adjust the slide out controller, turn the adjustment screw clockwise to increase the power and counter-clockwise to decrease the power.

CAUTION

Move the adjustment screw in small increments. Try moving the slide out room again. Use caution. There is a potential for component or structural damage if the screw is adjusted too high.

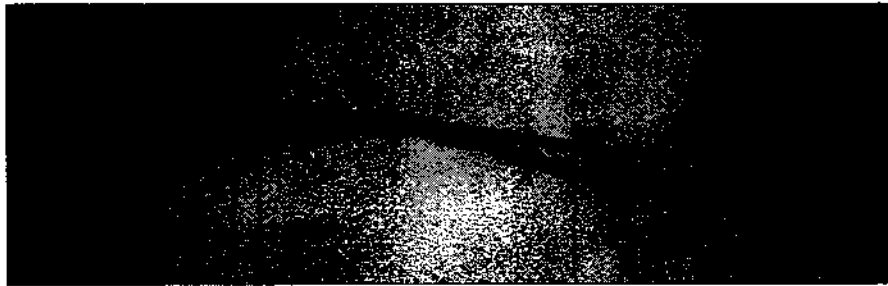


IMPORTANT

This screw does not adjust the slide out room speed. It sets the amount of power required to move the room against the mechanical stops.

Extending the Slide Out Room

1. The windows on the end of the slide out room must be closed before moving the room in either direction.
2. Before extending or retracting the room, look for and remove any obstructions.
3. Move the driver's chair forward before moving the slide out room in either direction.
4. Disengage the lock arms by pulling down on the center of the arm using the lock arm release tool, as required.
5. Activate the slide out switch. Once fully extended, the room will automatically stop. The indicator light will be lit while the room is traveling.



Retracting the Slide Out Room

1. Activate the slide out switch. When fully retracted, the room will automatically stop. The indicator light will be lit while the room is traveling.
2. Before moving the coach, engage the lock arms by pushing the arm up into the locked position using the lock arm tool, as required.

Manual Extension & Retraction

SHAFT END-MOUNTED MOTORS

If the motor is mounted on the ends of the slide out shaft, use the following directions:

1. Access must be gained to the TRANS-TORQUE bushing coupling at the end of the slide out gear motor.
2. Using a 1/2" drive – 1 1/2" open end wrench and a 1/2" drive ratchet wrench, loosen the 1 1/2" nut. This will require approximately 1 1/2 turns. The nut is a standard right hand thread. After the initial release, the nut will turn for a partial turn, then will release again as you turn the wrench. This second release is required to loosen the TRANS-TORQUE bushing from the shaft.

SHAFT CENTER-MOUNTED MOTORS

If the unit is equipped with the K-900 slide out motor which is mounted near the center of the slide out room, use the following directions:

1. Access must be gained to the slide out motor located in the center of the slide out room.
2. The manual extension or retraction requires only a $\frac{5}{8}$ " socket and ratchet wrench. By placing the socket on the $\frac{5}{8}$ " hex nut located on the gear box of the K-900 motor, the slide out can be moved in either direction by turning the hex nut.
3. If the slide out does not move by using the hex nut, the room can also be extended or retracted by using the procedure described for the SHAFT END-MOUNTED MOTORS. If the room is moved using this method, the correct torque on the $1\frac{1}{2}$ " TRANS-TORQUE nut is 125 foot pounds MAXIMUM.

Slide outs with either the center or end mounted motors can be moved by pushing the room the full length of its travel in either direction. This method will require the assistance of at least two people.

IMPORTANT

The TRANS-TORQUE bushing must be re-tightened to re-couple the slide out gear motor before moving the coach. This will hold the slide out room in place. The correct torque on the $1\frac{1}{2}$ " TRANS-TORQUE bushing is 110 foot pounds maximum. The correct torque on the $1\frac{1}{2}$ " TRANS-TORQUE bushing of the K-900 motor (center shaft motor) is 125 foot pounds maximum.

Operating Precautions

Before extending the slide out, make sure that the unit is level.

WARNING

Before extending the slide out, make certain that there is a minimum of five (5) feet of clear space on the slide out side of the unit. Prior to extending the room, be sure to unlock the slide out locking arms.

Make sure there are no obstructions either inside or outside the unit that may interfere with the slide out extension. Tree branches, bushes or telephone poles can cause extensive damage to the exterior of the unit.

Notes

CHAPTER 9

EXTERIOR FEATURES

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EXTERIOR FEATURES

Hitch

On the rear of this unit you will find a class 2, 5,000 pound car towing hitch with two extra 14 gauge wires. This is installed for towing passenger cars to be used when the vehicle is parked. The wire connector installed with this hitch is a standard seven-pin connector. For more information on the connector, please see Chapter 7 of this guide.

Exterior Sides

The sides of this unit are constructed of seamless gel-coated fiberglass. To add to this feature, the rear end caps are also gel-coated fiberglass. Clean the fiberglass material with a mild cleanser and warm water. Use only soft cloths. Using stiff bristle brushes may cause scratches in the fiberglass surface.

Security Lights

Standard on your unit are exterior security lights. Two lights are installed on each side of your coach for added protection. The switch for these lights is located inside the entrance door.

Roof

The standard roof on this unit is a seamless molded gel-coated fiberglass and top wrap. On this model, the roof rack, hand rails, and molded, recessed ladder steps are incorporated into the rear cap.

Jacks

WARNING

If the vehicle is equipped with a slide out, do NOT operate any room extension until the leveling and stabilizing procedure is complete. Do NOT retract the leveling system until the slide out room has been retracted. NEVER operate the leveling system when the slide out is extended.

This unit is equipped with hydraulic leveling jacks with automatic control. These jacks can be operated by the fully automatic method or the manual method. In either case, the jacks work in pairs: front, right side, left side, and rear. Before extending, using either method, the engine must be off, the ignition switch must be in the "ACC" position, and the transmission must be in park. The park brake needs to be set, either manually or automatically.

CAUTION

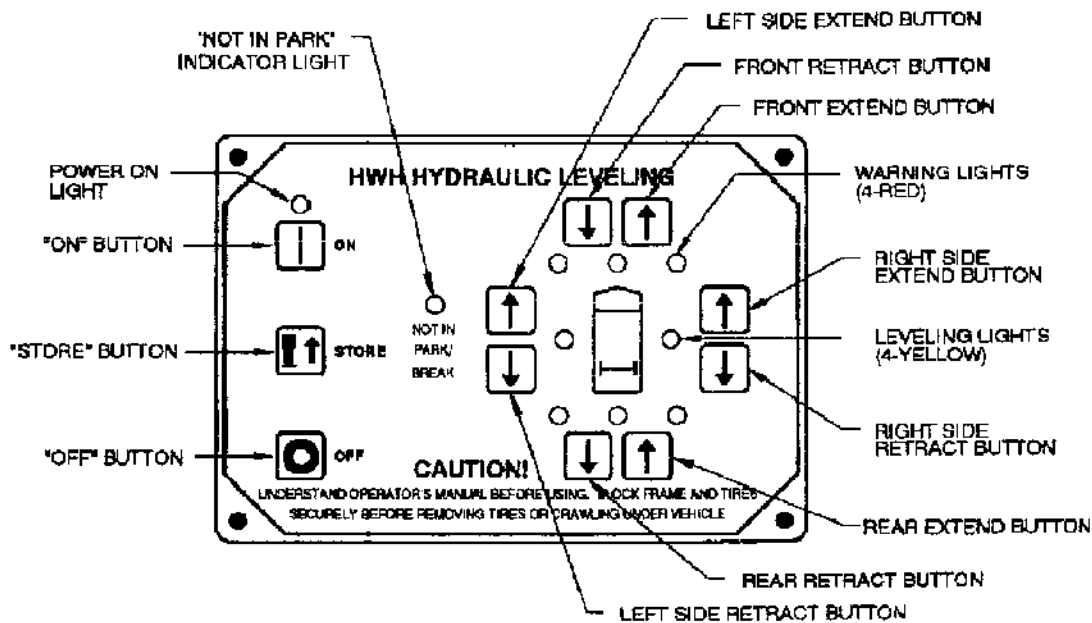
Do not lift the wheels off the ground when leveling. The unit can roll forward or backward when supported only by the jacks.

IMPORTANT

If the hand/auto park brake is not set, the "NOT IN PARK/BRAKE" light will come on when the "ON" button is pushed. The panel will turn on, but the system will not operate.

Automatic Method

To extend, press the "HYD" button on the HWH control panel. The indicator light will illuminate. By pressing the "HYD" button a second time, the indicator light will flash. The coach will level automatically. Once leveled, the system will shut off. To retract the jacks, start the engine and allow the air pressure to build. Press the "HYD" button once. The indicator light will illuminate. Press the store button and the store indicator light will flash as the jacks retract. Once the travel light is on, the coach may be moved. Again, the system will automatically shut off. It is recommended to visually verify that the jacks have risen and are not on the ground prior to moving the vehicle.



Manual Method

To extend, press the "HYD" button on the HWH control panel. The indicator light will illuminate. Press the "DUMP" button and continue holding the button until the air is dumped from the system. On the right hand portion of the touch panel note the outline of the coach and the various up and down arrows touch buttons. Press the respective up arrow button to raise the respective side or end of the coach. A yellow light to the front side or rear of the coach outline indicates which side or end is low. The down arrow buttons will lower the coach.

Electric Steps

This unit is equipped with electric double entrance door steps. When the power switch for the steps is in the on position, simply open the door and the steps will open. Detailed operation for the electrical entrance door steps is as follows:

1. Turn the step power switch on.
2. Close the door. The step should retract and lock into the up position.
3. Open the door. The step should extend and lock into the down position.
4. Turn the step power switch off. The step should remain in the extended position with the understep light off when the door is closed. Turning off the power with the step retracted will hold the step in a retracted position as well.
5. With the step extended, turn the step power switch off and close the entrance door. Turn the vehicle ignition on. The ignition override system will go into effect, and the step will automatically retract.

CAUTION

If the vehicle is driven with the step in the extended position, there is the possibility of causing major damage to both the step and the vehicle.

6. Turn the vehicle ignition off and open the door. The step will extend and lock in the down position.

CAUTION

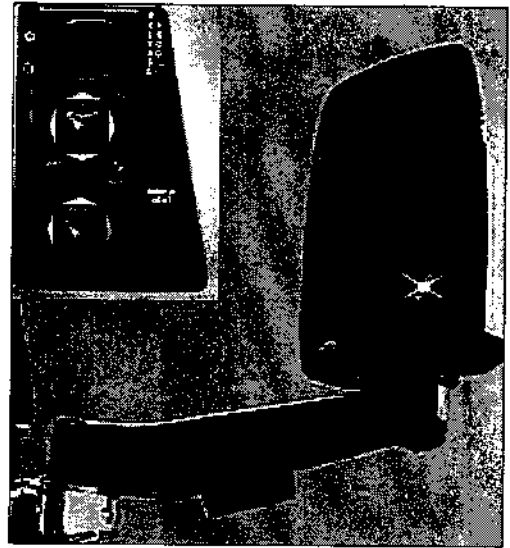
If the door is opened and closed without allowing the step to fully extend and lock in the 'DOWN' position, the step will retract and lock in the 'UP' position. When the door is reopened, the step will not extend. The power switch must be turned on for the step to extend.

7. This feature is only operative the first time that door is opened after the vehicle ignition is turned off. When the ignition is on, the step will always activate with the door movement, regardless of the step power switch position.

Notes

MIRRORS

This vehicle is equipped with chrome, exterior remote control mirrors to aid the driver in maneuvering the motorhome. Always adjust the mirrors for maximum rear visibility prior to driving. Make sure the seat is positioned for proper vehicle control. The mirrors are adjusted using a multiple directional switch located on the dash near the driver's door. The upper knob controls the driver's side mirror. The passenger's side mirror is controlled by the lower knob. When the arrow on the knob is pointed to the left, it adjusts the upper portion of the mirror. When the arrow is pointed to the right, adjustments can be made to the mirror's lower portion. The mirrors also contain a heating element to defog or de-ice the mirror glass during cold weather operation. The ON/OFF switch for this feature is located by the adjustment controls.



IMPORTANT

Objects viewed in convex mirrors appear smaller and farther away than they actually are.

Notes

[illegible]

CHAPTER 10

INTERIOR FEATURES

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INTERIOR FEATURES

Bedsread

All units have a decor matching fitted, quilted bedsread with matching coverlet sham and an accent pillow enclosed as part of the standard package. The recommended cleaning instructions for this spread are Dry Clean Only. The materials that make up the spread may have been treated, and dry cleaning will preserve this treatment.

Flooring

The floor covering for the living room and the bedroom of the unit is ultra-plush sculptured staintech carpet. In the Owner's Package you will find literature supplied by the carpet manufacturer. This information will be helpful in maintaining and extending the life of the carpet. Please refer to this information for the carpet care and cleaning instructions. The standard floor covering in the kitchen and bath is ceramic tile. To clean the tile flooring, use a mild soap with warm water and a soft cloth. A decorative sculptured inlay area rug is also standard in your unit.

Ceiling

The ceiling in this unit is covered with a padded vinyl ceiling headliner. The cleaning instructions recommended would be a soft cloth and mild detergent.

Window Treatment

The window treatment throughout this unit, except in the kitchen, is lined and pleated day/night soft shades and lambrequins. These shades have two sections. The first section visible when closing the shade is the "DAY" section. This material is translucent. Sunlight passes easily through the material into the unit. The second visible section is the "NIGHT" section. This material is a heavier, more opaque material. Very little to no light passes through it. It is generally used in the evening or when more privacy is desired. The kitchen window is equipped with a mini-blind.

Notes

CHAPTER 11

PLUMBING & BATH FEATURES

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FRESH WATER SYSTEM

Kitchen Sink

The kitchen sink installed is a double bowl Corian sink. The unit has two sink covers to provide additional counter space when the sink is not in use. Cleaning care consists of washing with mild detergents and a soft cloth. Avoid using "S.O.S." type cleaning pads because they may scratch the surface. The faucet in the kitchen is a single-handle, gourmet faucet by Moen. This faucet can be removed from its fitting and used as a sprayer.

Bath Sink, Shower & Accessories

The sink in the bathroom is made of Corian. In the Owner's Package furnished with this unit you will find care instructions for the Corian counter tops and sink in this unit. The brass bathroom accessories include a towel bar, a towel ring, a tissue holder and a robe hook. The faucet in the bathroom is a brass, single-handle faucet by Moen. The shower installed is a combination fiberglass tub and shower enclosure. The accessories accent the brass tub faucets, shower head, hose and bracket.

Monitor Panel

The monitor panel allows you to check the approximate levels in the fresh, gray, and black water holding tanks, as well as the battery condition. The monitor panel is generally located above or near the entrance door. Simply press the button of the item to check its status. The empty indicator light will always light when the button is pressed. If the tank is full, all of the lights will be on. Lights are sequential and indicate the level in approximately $\frac{1}{4}$ tank increments. For example: If the tank selected is approximately $\frac{1}{2}$ -full, then the indicator lights E, $\frac{1}{4}$, and $\frac{1}{2}$ will be lit. On the right hand side of the monitor panel is the water pump switch. This switch controls the power going to the water pump, turning it either on or off.

Monitor Panel Calibration

The monitor panel comes to you factory calibrated for accuracy and should not need to be adjusted. In the event that the system does not read accurately, then re-calibration may be necessary. The procedure for re-calibration is simple: First, fill the tank to be re-calibrated. Second, using the adjustment tool enclosed in the Owner's Package (or any small flat-bladed screw driver), simultaneously push the button for that tank and rotate the adjustment screw located above the button and behind the face plate counter-clockwise until some of the lights turn off in sequence. Then slowly rotate the adjustment screw clockwise until the full light is completely on. Repeat this procedure as necessary for the remaining tanks. The system is now calibrated properly.

Water Pump

The water pump is self-priming and totally automatic, operating on demand whenever water is required. The water pump is used to pressurize the fresh water system when the unit is not connected to city water. To start the pump follow these instructions:

1. Fill or partially fill the fresh water supply tank.
2. Open the kitchen and bathroom faucets.
3. Turn the water pump switch on and allow the water to fill the water line and the hot water heater.
4. Close each faucet after it delivers a steady stream of water (close the cold water first). Leave the hot water faucets on until they also deliver a steady stream of water. This will ensure that the water heater is filled with water.
5. The water pump should stop running once all faucets are closed.
6. The pump is now ready for automatic operation. The pump will run when a faucet is opened and stop when a faucet is closed.
7. Never allow the pump to run for long periods of time without water in the supply tank. Pump damage or blown fuses may result.

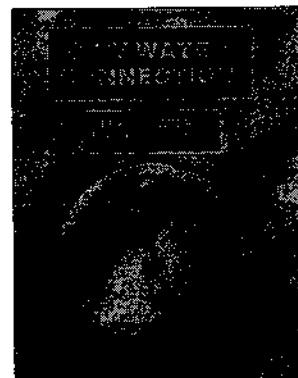
If water doesn't flow when a faucet is turned on while using the demand system, use the following trouble shooting chart:

| SITUATION | SOLUTION |
|-------------------------|--|
| Pump running - no water | <ol style="list-style-type: none">1. Fill tank2. Clear the water line to the pump3. Check the fresh water fill valve position |
| Pump doesn't run | <ol style="list-style-type: none">1. Check the pump switch2. Check the 12 volt fuses3. Check the electrical connections4. Check the battery |

All of the water should be drained from the fresh water system when the unit is not in use for more than one week. For more detailed information regarding the water pump, refer to the water pump manufacturer's brochure in your Owner's Package.

City Water Hook-Up

When connecting your unit to city water, be certain to use a water hose manufactured and labeled for potable water. This will ensure that the hose will not alter the taste of the water. To hook the city water supply to the unit, connect one end of the hose to the city water supply. This will usually be a faucet or valve similar to your garden hose valve at home.



Turn the city water supply on for a few seconds in order to clear the line. Once the hose has been flushed, turn the supply off. Connect the other end of the hose to the city water connections. Turn on the water supply and open all of the faucets to clear the air from the lines in the unit. Once air pockets have been purged from the water lines and water flows freely, close all of the faucets. The city water supply is under pressure, therefore the water pump is not necessary when connected to city water. Once the city water fill valve is opened, water is supplied to the fresh water system including the hot water heater, faucets, and stool. To disconnect from the city water supply, close the valve and remove the hose from the city water supply. Disconnect the hose from the city water connection and store the hose in the water compartment.

Fresh Water Tank Fill

The fresh water tank is filled from the city water hook-up. The valve located in the service compartment near the water hook-up determines whether the city water is going through the water system or into the fresh water tank. An additional way to fill the fresh water tank is with the winterizing intake hose placed in a bucket of water (See Chapter 14). Since there is not an automatic shut-off for the fresh water tank fill, check the level from the monitor panel while filling the unit. The excess water will be vented from an overflow vent pipe onto the ground when the tank capacity has been reached. This pipe is installed in the fresh water tank to prevent tank rupture from overfilling. All of the water should be drained from the fresh water system when the unit is not in use for more than one week. Whenever possible, drain the fresh water tank before traveling. Water in the tank will reduce the carrying capacity of the unit.

SANITIZING

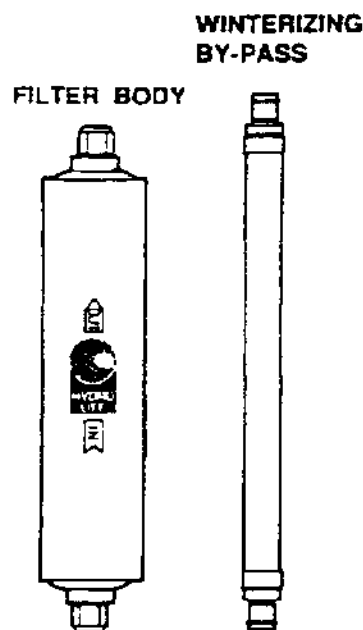
To assure complete disinfecting of your fresh water system, it is recommended that the following procedure be followed on a new system, on one that has not been used for a length of time, or one that may have become contaminated. This procedure is also recommended before long periods of storage, such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

1. Drain the fresh water tank by opening the drain valves. There is one valve per water tank. All of the faucets should be in the closed or off position.
2. Prepare a chlorine solution using one gallon of water and $\frac{1}{4}$ cup of chlorine bleach (5% sodium hypo-chlorite solution). Prepare enough of the chlorine solution to administer one gallon of solution for every 15 gallons of tank capacity. For sanitizing this unit, prepare 4 $\frac{1}{2}$ gallons of the chlorine solution. This mixture puts a 50 PPM (parts per million) residual chlorine concentration in the water system that will act as a quick kill dosage for harmful bacteria, viruses and slime forming organisms. Concentrations higher than 50 PPM may damage the water lines and/or tank.
3. Once the fresh water tank is empty, close the drain valves on the water tank.
4. Pump the chlorine solution into the tank. This is done by placing the winterizing hose into the chlorine solution. Close the valve from the fresh water tank to the pump and open the valve from the solution to the pump. Turn the tank fill valve from city water to tank fill. Turn on the water pump until all of the solution is pumped into the fresh water tank.

5. Turn off the water pump. Close the valve to the solution. Open the valve from the tank to the water pump. Fill the water tank with the city water tank fill (or by using the same method as was used to put the sanitizing solution into the tank). Remove the water filter (from the drink dispenser faucet, if installed) and install the by-pass pipe to allow the sanitizing solution access to the faucet. Open each faucet in turn including the kitchen faucet, bath faucet, inside and outside shower, turning on both the hot and cold, and flushing the stool until all of the air has been purged from the pipes and the water runs freely. The entire system will then be filled with the sanitizing solution.
6. Allow the 50 PPM disinfecting solution to stand in the system at least four hours.
7. Drain the system and flush with fresh water. The water system needs to be flushed with clean water repeatedly, if necessary, until there is no chlorine taste or smell left in the system. To remove any excessive chlorine taste or odor that might remain, prepare a solution of one quart vinegar to five gallons of water. Allow this solution to agitate in the tank for several days by vehicle motion. Drain the solution and refill the tank with clean water.

Drink Dispenser with Water Filter

Before disinfecting the fresh water system, remove the water filter and install the by-pass pipe to allow water access to the drink dispenser faucet. The water filter is located under the kitchen sink. The filter will remove chlorine, dirt, and other matter. It will also eliminate most phenol (or similar) odors and tastes while delivering sparkling, taste free water for drinking and cooking. The filter is connected only to the cold water line that is attached to the drink faucet. The filter is not guaranteed to remove the tastes and odors of iron and sulfur. To remove these tastes you will need to chlorinate the water. Replacement filters are available that will filter iron and sulfur. Ask your dealer or RV supply center about acquiring an iron and sulfur filter. If you are traveling in an area where the water has a high iron and sulfur content, then add 1 tablespoon of chlorine bleach to every 10 gallons of water in your tank. This will precipitate the iron or sulfur so that the filter can remove it. If you are at a site where the unit is hooked up to city water, you will not be able to chlorinate the system because the water flows straight to your faucets and not through the fresh water tank. Filters should be changed every 6-12 months depending on the quality and quantity of water that is used in your unit.



Fresh Water Lines

Vibration and flexing during traveling can cause pipes and fittings to work loose. Check all of the plumbing connections for leaks on a yearly basis. If the water pump runs when all faucets are turned off, check for a leak. Be sure the drain valves are closed. Connections at the kitchen and bathroom faucets normally seal with hand tightening and a half turn with a

wrench. If a fitting leak persists, disconnect it completely and check for mineral deposits or foreign material on the sealing surfaces. Clean the surfaces thoroughly and reinstall the fitting. Take the coach to an authorized service center for repairs if the system continues to leak. Follow the winterizing instructions given in Chapter 14 to reduce the risk of leaks caused by cracks from freezing pipes. Freezing damage can be extensive and expensive.

WASTE WATER SYSTEM

General Information

The waste drainage system was designed to provide adequate and safe storage and/or disposal of waste materials. All of the materials used in the making of this system are tested by a nationally recognized testing laboratory. The drainage system uses plastic piping and fittings connected to the sinks, toilet, and holding tanks. This provides for their drainage to an outside termination. The unit should be reasonably level for best operation of the system. There are two separate waste systems. The gray water system is for waste water from the sinks and shower. The black water system is generally for sewage waste from the stool. Each tank has its own control valve, and both tanks drain through the sewer drain hose.

Toilet

The stool operates with water from either the fresh water tank with the water pump on or the city water supply. Before using the stool, add water to the bottom of the tank. Refer to the 'BLACK WATER TANK' instructions in this chapter. The stool flushes waste directly into the black water holding tank. The stool uses high velocity water injection to produce a swirl effect in the bowl. The greatest problem that causes stool solids to build up in the holding tank is lack of liquids. When using your stool, it is wise to fill the stool 3/4 full of water. This will help to wash the solids away from directly below the stool and to ensure complete dumping of the holding tank. To add water to the stool bowl, lift up on the lever. To flush the stool, push down on the lever until the water swirls.

The stool requires little maintenance. Use an approved non-abrasive cleaner to clean the bowl. Spraying the bowl sealing blade with a silicone spray will retain the original smooth operating condition.

Check the complete instruction and trouble shooting guide in the stool manufacturer's owner's manual provided in the Owner's Package.

P-Traps

Each of the sink drains, the shower drain, and the washing machine drain (if equipped) has a water trap (P-Trap) to prevent holding tank odors from entering the coach. These traps must have water in them in order to trap the odors. While traveling, the water may splash out of the sink and shower drains. While stored, the water may evaporate allowing an odor to enter the coach. If this occurs, run water from the faucet into the drain, allowing water to fill the trap.

Black Water Holding Tank

The black water, or sewage, holding tank is located directly beneath the toilet. Before using the stool, you will need to treat the tank with water that is mixed with an odor controlling chemical. These chemicals are readily available at any RV supply store. Be careful not to spill the chemical on your hands, clothing, or the carpet because it may cause a permanent stain. Pull the toilet levers forward to allow the chemical to mix with the toilet water. Continue pulling the toilet levers until at least one inch of solution is directly under the toilet. Release the levers, and the waste tank is ready for use.

CAUTION

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

Gray Water Holding Tank

The gray water holding tank is located in the underbelly of the unit. It is primarily used for the drainage from the kitchen and bath sinks and the shower.

Waste Water Disposal

Both of the holding tanks terminate in a valve arrangement that permits draining each tank separately or together. It is recommended to drain the black water tank before the gray water tank. This will allow the water from the gray tank to wash the black water residue from the drain lines and hose. The valves that open to release the water are called gate valves. The blade that closed the opening in the sewer drain pipes is connected to the T-handle to release the contents of the tank(s) when pulled. The sewer line must be securely capped during self-containment use to prevent leakage of waste material onto the ground or pavement. Do not pull the holding tank gate valve open when the protective cap is installed on the pipe. Always drain the tank into an acceptable sewer inlet or dump station.

WARNING

Holding tanks are an enclosed sewer system and must be drained into an approved dump station. Both black and gray water holding tanks must be drained and rinsed thoroughly on a regular basis in order to prevent the accumulation of harmful or toxic materials.

Whenever possible, drain the holding tanks prior to traveling. The carrying capacity of your unit will be reduced if water is left in the black or gray tanks.

The holding tanks should only be drained when they are at least $\frac{3}{4}$ full. Doing this will provide sufficient water to allow the complete flushing of waste materials in the drain lines and hose. If the tanks are not $\frac{3}{4}$ full, add enough water to allow for sufficient flushing.

To empty the waste water tanks, connect the adapter to the drain hose. Use the adapter supplied with your unit. If the adapter is lost or broken, one can be purchased from any RV supply store. Once you have placed the adapter on the drain hose, it can remain there for the life of the hose. One end of the hose threads up through the hole in the bottom of the service compartment, and the other end of the hose feeds into the sewer at the dump station. Unscrew the cap off the drain. Connect the hose with the adapter in place to the drain fitting. Open the gate valve all the way by pulling on the T-handle. The tank will start to drain as soon as the T-handle is pulled. After you have drained the black water tank, immediately drain the gray water tank. Doing this helps to flush the black water from the sewage hose.

When both of the tanks are empty, flush them with a fresh water rinse before you close the valves. The gray tanks are easily flushed by pouring a couple of gallons of water into a sink drain. The drain outlet is engineered for quick release of the drain hose adapter. Always close the gate valves and secure the end cap to prevent leakage while in transit. After draining the black water tank, it is recommended to add a holding tank deodorant (such as Thetford Aqua-Kem) to help control the odor and break down the solids. Follow the instructions given on the holding tank deodorant package.

When using dump stations for draining the holding tanks, keep other travelers in mind. Practice good housekeeping. Leave the dump stations in good order. Above all, do not pollute.

Camping with Sewer Hook-Up

When camping at parks with sewer hook-up, it is important to keep the black water holding tank gate valve closed at all times, except when dumping. The gray tank can be kept open while hooked to a sewer connection but again, the black water tank must be kept closed. This is done so that an ample supply of liquid remains in the tank to provide a smooth flow through the gate and drain valve when dumping. Sufficient liquid in the tank causes a swirling action that should take any accumulated solid wastes with it. Accumulation of solid wastes in the black water tank can be avoided by keeping the gate valve closed when connected to the sewer hook-up. If the valve is left open, solid wastes may accumulate in the tank. This may eventually result in costly repairs.

CAUTION

The gray tank valve needs to be in the open position when operating the optional washing machine.

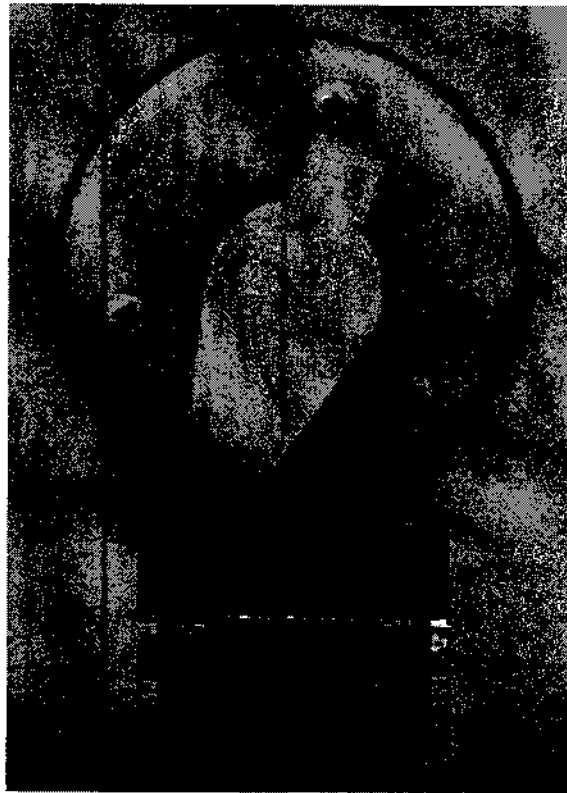
Notes

No Fuss Flush

This unit is equipped with a flushing system for the holding tanks. When draining your sewer tank, attach a water hose to the sewer spray hookup. After the tank is drained, leave the gate valve open and open the water valve to allow water to spray inside the sewage tank. This will clean the inside of the tank of any debris that may be left inside the tank. After this is done, disconnect the water hose and close the gate valve. When unsure if any solids are still left inside the tank, fill the sewage tank with approximately ten gallons of water through the stool. As you travel, the agitation of the water should help liquefy any solids left in the tank. You can dump the sewage tank again at your next destination.

CAUTION

Do not use the same hose for the No Fuss Flush that is used for filling the fresh water tank.



Notes

CHAPTER 12

CONSTRUCTION FEATURES

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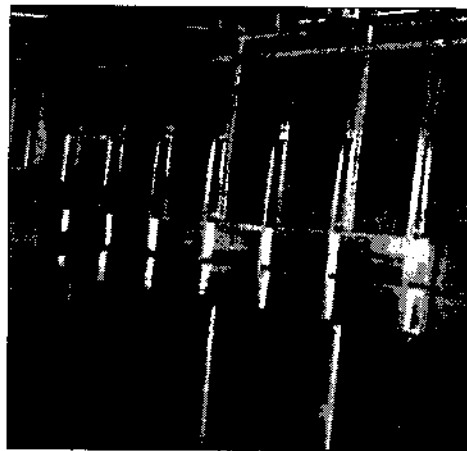
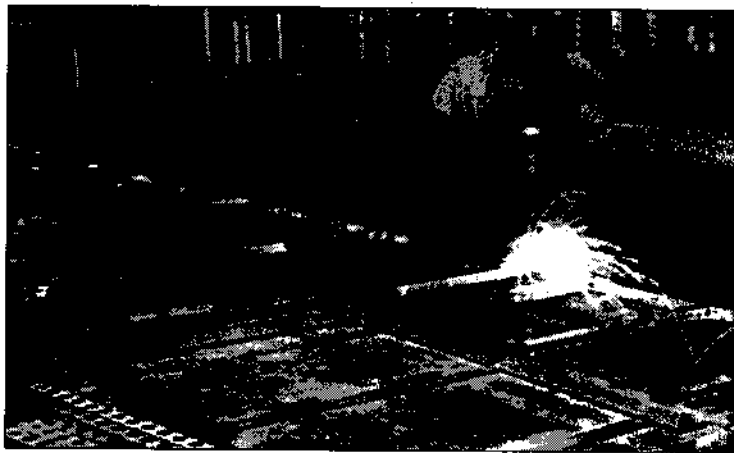
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|---------------------------------|--------|

CONSTRUCTION FEATURES

The floor decking is constructed of durable $1\frac{9}{32}$ " structure wood. The fiberglass insulation in the floor and sidewall is rated at R7, while the roof is rated R19.

On this model, each sidewall is constructed for strength and is well insulated for comfort. Welded for added strength, the extruded aluminum sidewalls and roof are built with 16" on center framing to provide a strong and durable construction. The inside consists of $\frac{5}{8}$ " beaded foam that is laminated to kraft paper and covered by the interior paneling. A blanket of rolled insulation is added to the sidewalls, roof, and slide out to provide a greater efficiency and consistency of climate control. This will assist the furnace in the winter by keeping the warm in and the cold out. In the summer months, it will assist the air conditioning by keeping the cool air in and the hot air out.

Below are examples of the framing and insulation similar to that in your unit.



CHAPTER 13

WINDOWS, AWNINGS, VENTS & DOORS

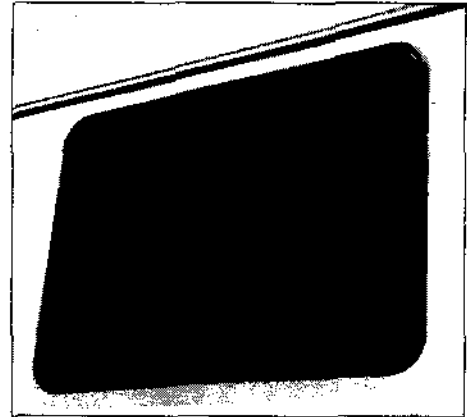
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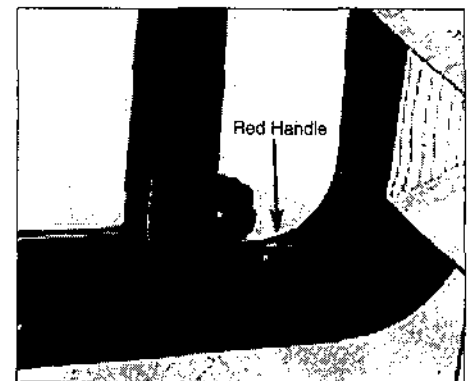
WINDOWS

The windows installed in the living area of this unit are the sliding style. To open, simply slide the movable section. The windows in the bedroom are the radius torque style. These windows are also referred to as jalousie windows. They open with the simple turn of a crank. All of the windows have radius corners with dark tinted safety glass. On this unit the only window option is the installation of double pane windows.

Your unit is equipped with sun shades on the driver and passenger side windows.



In the bedroom of the unit, one window will be marked "EXIT." This window is an emergency escape, or egress, window. To open in case of an emergency, lift the red handles at the bottom of the window and push out.



Notes

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AWNINGS

Side Awning

The A & E 9000 side awning is a standard feature for this unit. The following instructions will help in extending and retracting the awning.

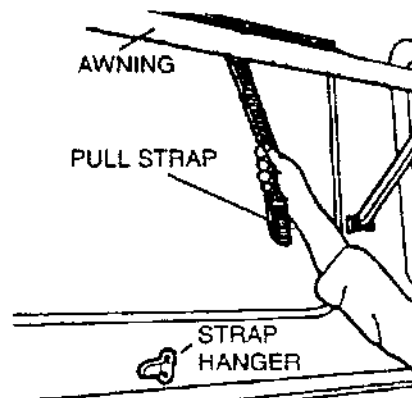
EXTENDING

1. Loosen the black locking knob behind each main arm. Flip the travel lock latches up.

IMPORTANT

Failure to loosen the black knobs will prevent the awning from fully retracting.

2. Lift the arm storage locks, located on each of the upper arms, to the unlocked position. (Fig. 1)
3. Place the hook end of the provided pull wand over the brake lever and pull downward to the open position. (Fig. 2)
4. Hook the loop of the center pull strap with the pull wand and draw the awning away from the vehicle to the desired extension.
5. Slit the braces to the top of each arm until the slider spring catch firmly latches into the slot in each arm end plug.



WARNING

Braces left in the down position will not prevent the awning from retracting inadvertently. Personal injury or property damage may occur that will not be covered by warranty.

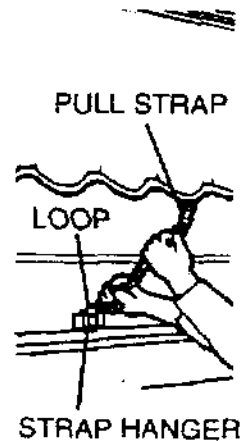
6. Raise the arm handles and lift the front of the awning to the desired height. While supporting the weight of the awning with one hand, lower the handles to engage the height adjustment holes.
7. Slide the center pull strap to one end of the awning and store.

CAUTION

To prevent damage to the awning canopy, the awning must be raised high enough to clear the open entrance door of the vehicle. Also, whenever heavy or prolonged rain or wind is anticipated or you will leave the awning unattended, it is best to close the awning. Damage as a result of weather is not covered by warranty.

RETRACTING

1. While supporting the weight of the awning with one hand, carefully raise the handle until it is disengaged from the adjustment hole.
2. Lower the front of the awning down until the arms are resting on the lower arm stop bolts. (This is required on both the front and rear arms.)
3. Loosen the black locking knobs.
4. Release the slider catch on the top of the arm plug by pushing it slightly to the right while simultaneously sliding the brace down to the stored position.
5. Slide the pull strap to the front end of the roller assembly.
6. While pulling down slightly on the pull strap, move the brake lever upward into the closed position. (Fig. 3)



WARNING

The awning is now under full spring tension. If released from this point it will abruptly roll up to the stored position, possibly causing personal injury or damage to both the awning and the RV.

7. Snap the arm storage locks into the down position and tighten the black locking knobs.

Window Awning

Installed on the bedroom and slide out windows are the matching A & E 9000 window awnings. To operate, follow these instructions.

EXTENDING

1. Grasp the loop on the pull strap and pull down to extend the awning. Then hook the loop onto the window strap hanger.

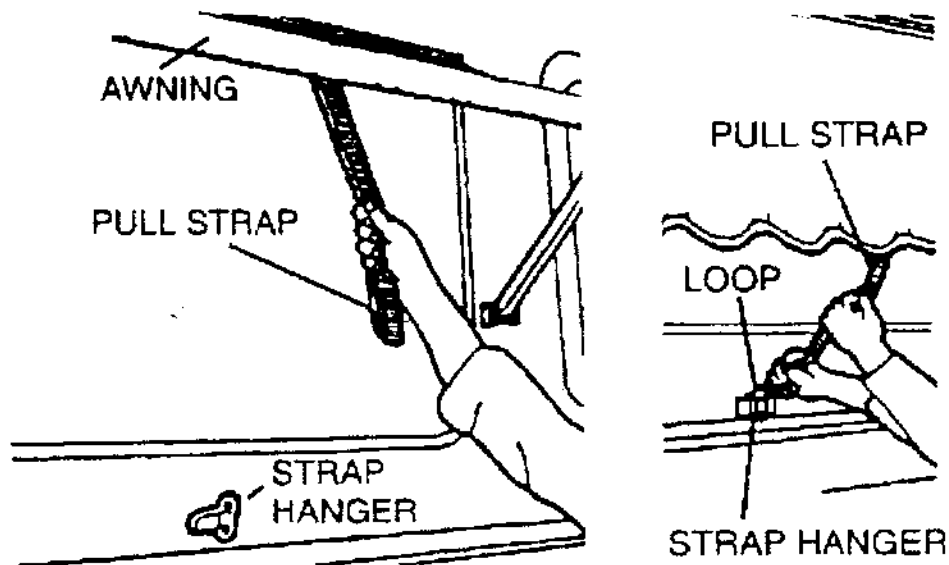
RETRACTING

1. Remove loop on the pull strap from the window strap hanger.

CAUTION

Do not release the strap as the window awning is under tension and may snap back against the vehicle.

2. Slowly allow the awning to roll back to the closed position by feeding the pull strap upwards and diagonally. This prevents the strap from building up and creating a bulge in the fabric.
3. The window awning is now ready for travel with no further locking required.



VENTS

There are two 12 volt Fantastic Vents installed in this unit. One vent is the central vent. The other vent is the bathroom vent. These vents are equipped with a rain sensor on the roof hood. If the vent is open and it senses rain, it will automatically close. Each vent is controlled by a separate wall thermostat. Once powered "ON" and the desired temperature is selected, the vent will run until the temperature is reached. When the temperature is reached, the vent will automatically shut off. The central vent draws the air from the unit through the air conditioning warm air duct. The bathroom vent is routed directly through the ceiling.

The installation of the skylight in the bathroom is a standard feature on this unit. In addition, a soft shade is installed on the skylight for privacy. To open or close the shade, simply move the bottom rail in the direction desired.

DOORS

The front entrance door has a dead bolt lock for added security. The dead bolt lock is a keyless lock. See below for operating instructions on the keyless entry system.

CAUTION: The entrance door hold-open latch must be retracted before closing the entrance door. Failure to retract the latch properly may result in damage to the latch mechanism. The latch control switch is located on the end of the dash panel facing the entrance door.

Using the Keyless Entry System

This vehicle has been equipped with a keyless entry system. The entrance door can be locked or unlocked without using a key. The buttons for the system are to the left of the entrance door. When using the keyless system, the entry keypad buttons illuminate for ease of visibility at night. Do not push the buttons with a car key, ball point pen, pencil or any other hard object. These objects could damage the buttons.

The permanent code to the keyless entry system is found on the owner's wallet card placed in the Owner's Information Package, which is provided with this unit. In addition to the permanent code, the lock can be operated by a five-digit personal code. To program the personal code, follow these instructions.

1. Enter the permanent code found on the owner's wallet card.
2. Within five seconds, press the 1/2 button.
3. Select five digits for your personal code. Within five seconds of pressing the 1/2 button, enter your personal code, pressing each digit within five seconds of the previous digit.

The keyless entry system registers this second code. To lock or unlock the vehicle, you can use either code. To erase your personal code, enter the original code and press the 1/2 button. Wait six seconds. The keyless entry system automatically erases your second code. It is not recommended to set a code that presents the numbers in sequential (1/2, 3/4, 5/6, 7/8, 9/0) or repetitive order. In addition to using the keys or the keypad, the entrance door can also be locked or unlocked from the interior of the unit. This is done by using the power door lock switch which is located on the wall to the right of the passenger seat.

Unlocking

To unlock the entrance door, enter the five digit code. When entering the code, do not let more than five seconds pass between the numbers you press. If this occurs, the system will shut down and you will have to enter the entire code again. If the keyless entry system does not work properly, use the key to lock and unlock the door.

Locking

The keyless entry system can also be used to lock the entrance door. Locking the door is done by pressing the 7/8 and 9/0 button at the same time.

BAGGAGE DOORS

The baggage door latches on the storage compartments are equipped with power locks for owner ease. To lock or unlock the doors, press the switch on the dash or remote supplied with this unit. These doors can also be locked or unlocked by using the key supplied. Please note that if all doors are locked and one door is unlocked using the key, pressing the power switch will lock the unlocked door while unlocking the locked doors. The LP door, by RVIA Code, is not equipped with a locking latch.

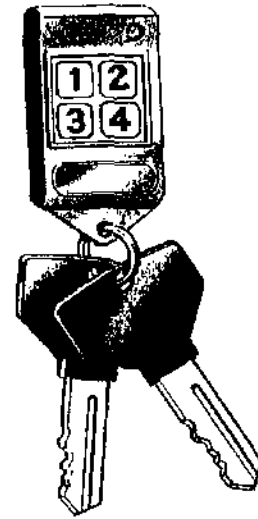
The “Power-Touch” key ring you received with your unit controls the baggage door locks, the rear engine door release, in addition to the power cord reel. The following description should help you in using this feature.

Button #1 – This button controls the power electrical cord reel. Press and hold this button to reel the cord out. Press again, after releasing the button, and the cord will reel in.

Button #2 – Press this button once to release the rear engine access door.

Button #3 – By pressing this button all of the baggage doors will lock.

Button #4 – By pressing this button all of the baggage doors will unlock.



Notes

[illegible]

CHAPTER 14

ROUTINE MAINTENANCE

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EXTERIOR CARE

IMPORTANT

Damage caused by improper or unapplied maintenance is not covered by your Newmar Limited Warranty.

Washing

The exterior of your new recreational vehicle is made of fiberglass. Frequent washings and thorough cleanings are required to prevent damage to the vehicle finish after exposure due to damaging salts, calcium chloride, road tar, tree sap, insects, and other foreign material. Damage caused by exposure to these items is not covered by your warranty agreement. Never wash the vehicle in direct sunlight, while the vehicle is hot, or with hot water. Build up of mud and dirt under the body can cause damaging rust on steel parts. Corrosive materials, such as those used for ice and snow removal and dust control, also accumulate on the underside of the vehicle. These materials should be removed by flushing the underbelly regularly with water, especially areas where mud and other foreign materials collect. The chance of corrosion can be minimized by frequent washings of the vehicle. When washing the vehicle, make certain that the undercarriage and the wheel wells are cleaned, as well as the exterior of the coach. Do not use strong soaps or detergents for washing the vehicle. Always use a mild soap in warm water, a commercially prepared product for automotive finishes, or your local car wash. Be careful when using a pressure-type washer to avoid loosening any exterior decals or sealants, etc. After washing, carefully inspect the caulking around window frames and vents and any other joints that may have separated. Recaulking, if necessary, is relatively simple and is considered routine maintenance which is the responsibility of the owner.

IMPORTANT

Never use a strong solvent, such as lacquer thinner, or harsh abrasives, on any of the exterior painted surfaces.

Waxing

The exterior finish will require a routine waxing. When water will not bead and roll off a freshly washed vehicle, a new coat of wax is needed. Wax not only improves the appearance of the vehicle, but it also protects the finish against oxidation and corrosive materials. The recommended type of wax is one that is compatible with painted or gel-coated fiberglass finishes and contains a UV (ultra-violet) inhibitor. Buffing with a polishing compound will improve a dull or discolored finish.

IMPORTANT

When using a polishing compound that does not contain a wax preservative, reapplying a coat of hard wax after polishing is recommended.

Seals

The seals around doors, windows, vents, slide out trim and external seams should also be checked at least twice a year. In addition, the roof seams should be inspected twice a year for cracking or peeling. If deterioration is noted during a routine maintenance inspection, reseal the seams or seals with an approved sealant to prevent leaks. Your dealer can perform the resealing inspections and work for you. It is recommended that a Newmar Authorized Service Center perform these inspections and reseal when necessary.

Proper Sealants for Application

| | |
|--|---|
| Plas-T-Cote |Metal or fiberglass roof |
| Surebond #SB-140 |Rubber laminated to metal roof and <u>ALL SKYLIGHTS</u> |
| Carlisle #502-LSW Self Leveling Sealant |Rubber roof over wood base |
| Silicone Sealant |To cover butyl and other sealants; not to be used as the main sealant |
| Parbond |To seal across tops of windows, etc. on exterior where silicone is not used |

Striping & Decals

The hand-painted striping and other decals on your vehicle require little maintenance. Treat these as you would any painted surface on your vehicle. Wash them with mild soap and warm water, or any retail car soap. Never wash the vehicle in direct sunlight, while the vehicle is hot or with hot water. Rinse thoroughly to prevent soap residue accumulation. Use caution with high pressure wash nozzles. Keep them at least 18 inches from the edge of the decals. High pressure water may cause the decals to loosen and peel. Test small sections of decals when using any type of cleaning solution.

IMPORTANT

Do not use solvents such as acetone, MEK, toluene, etc. on the decals. Any solvent including alcohol may soften or smear colors. Do not use lacquer thinner or paint on decals. Do not overcoat the decals with clear paint. Do not allow gasoline or other fuels to drip or stay on the decals for any length of time. If this occurs, immediately flush the area with water.

INTERIOR CARE

WARNING

Urea-formaldehyde is used in the production of particle board, hardwood plywood, and most paneling. Urea-formaldehyde resin may release formaldehyde vapors into the air, which may cause headaches, and in some people, eye, nose and throat irritation. Formaldehyde may intensify some allergies or upper respiratory problems like asthma. Proper ventilation should reduce the risk of such problems.

IMPORTANT

The fading of upholstery, carpet and other interior fabrics is generally caused by excessive sunlight. The drapes, blinds or shades should be kept closed when the vehicle is parked for an extended period of time to minimize the fading. Normal deterioration of appearance items due to wear and/or exposure is not covered by the Newmar Limited Warranty.

Carpet

A weekly routine of vacuuming the carpet and fabrics throughout the vehicle is recommended. Doing this will prevent an accumulation of dirt that can detract from the material's appearance and shorten its life.

Included in the Owner's Information Packet is the carpet manufacturer's Carpet Care Guide. The Carpet Care Guide lists detailed information on cleaning soiled areas and removing stains from the carpet installed in the unit.

Fabrics

The fabrics used in this motorhome for the bedspread, draperies, headboard and valances contain fire retardant additives that may be damaged by the use of improper cleaning products. **Water-based products are not recommended for cleaning the fabrics in your new unit.** Most water-based household cleaning products are not formulated for use on these fabrics and may cause excessive shrinkage or fading. Always test any cleaning product on a hidden area of fabric before using on visible areas. For best results, the fabrics in this unit should be cleaned by a professional carpet and upholstery cleaner.

Spills, spots, or stains should be treated as soon as possible to avoid permanent damage. If a spill occurs, blot the fluid with a dry towel. Do not rub the spill. Rubbing may cause the liquid to "set" in the fabric. When attempting to clean a spot or stain, always start from the outside and work inward to avoid spreading it further. Some stains or soils are extremely difficult or impossible to be removed completely. These should receive immediate, professional attention. Spills, spots, stains or soils are the responsibility of the owner, and are not covered by the Newmar Limited Warranty.

WARNING

When cleaning the upholstery and fabric in the unit, do not use lacquer thinner, nail polish remover, laundry soaps, or bleach. Never use carbon tetrachloride or gasoline for cleaning purposes. These items may cause damage to the materials being cleaned and most are highly flammable.

Walls & Ceiling

The wall and ceiling coverings should be cleaned periodically to maintain a new appearance. Use a non-abrasive cleaner with a soft cloth on the walls. Do not use solvents of any kind. Solvents may damage the surface of the vinyl.

Dash

In order to keep the dash in like-new condition, follow these guidelines:

DO—

- Dust and clean the dash with a soft, damp cloth, or chamois, wiping the surface gently.
- Use a mild detergent and lukewarm water.
- Dry the surface, after washing and rinsing, by blotting with a damp cloth or chamois.

DO NOT—

- Use harsh chemicals that may damage the dash.
- Use cloths containing grit or abrasive particles or kitchen scouring compounds to clean or dust the dash.
- Subject the dash to hard, direct blows.
- Use boiling water, strong solvents, or other materials to clean the dash, as they will soften the plastic.

Woodwork

The wood cabinetry should be cared for with furniture polish to sustain the natural beauty and luster of the wood. This will also keep your cabinetry looking new and prevent the wood from drying. The simulated plank flooring should be protected from dents, scratches, and nicks by installing protective pads on the bottom of chairs and tables. Use of area rugs and floor mats by the entrance door is recommended to trap dirt. To clean the flooring, begin by vacuuming the floor to remove loose dust and dirt. Then, damp mop the floor with one ounce of Wilson Art Flooring Cleaner diluted in one gallon of clean, warm water (or use a non-abrasive, soap-free cleaner). The mop should be damp, not dripping. Do not use soap-based cleaners, scouring powders, steel wool, abrasive cleaners, wax or polish on the floor. To remove stubborn spots like shoe polish, oil, tar, markers, scuff, etc. use a household solvent, acetone or nail polish remover, then wipe with a damp cloth. To remove chocolate, grease, juice or wine, use warm water and a non-abrasive cleaner. To remove candle wax or chewing gum, carefully scrape off when the material has hardened. For further tips, please see the manufacturer's information sheet in your Owner's Information Packet.

Counter Tops

To properly care for the counter top in your new unit, always use a heat pad or trivet to protect the surface from hot objects that may mar or damage the surface. Wipe the counter top with a damp cloth to remove water spots. For stains, wipe with soapy water or ammonia-based cleaners.

Accessories

The brass light fixtures, bath accessories and faucets can be cleaned by wiping with a soft, damp cloth. Washing with warm water will remove dry water spots. Do not use cleaners that contain harsh or abrasive chemicals. Alcohol or similar solvents should never be used.

Detectors

The CO and LP detectors are self-contained and DO NOT require any maintenance other than normal cleaning and dusting. The smoke detector installed in this coach is 9 volt battery operated. The battery needs to be tested periodically, and replaced when necessary. When cleaning the case on any of the detectors use a damp cloth or paper towel. Do not spray cleaners or wax directly into the case as it may cause false alarms.

Condensation

IMPORTANT

Since surface condensation within the coach cannot be controlled by the manufacturer, damage caused by condensation is not covered by your Newmar Limited Warranty.

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

1. Slightly opening a window or roof vent to allow the moisture to escape from the unit.
 2. Using a small dehumidifier is also very effective in removing moisture from the air.
- Condensation levels are highest during times when a person is cooking or taking a shower in the unit, but these are not the only times condensation is present.
 - Condensation can migrate through ceiling panels and saturate the fiberglass insulation in your ceiling cavity. This condition often causes the occupants to believe the recreational vehicle has a roof leak. Walls and ceiling panels may also become wet when the moisture accumulates on these surfaces.
 - Newmar Corporation does not recommend the use of any catalytic heaters.

ROUTINE MAINTENANCE

IMPORTANT

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

All routine maintenance is the responsibility of the owner and is not covered by the Newmar Limited Warranty. Use the maintenance record found in Chapter 15 to record all performed maintenance as required. Please note that damage caused by improper or unapplied maintenance is not covered by the Newmar Limited Warranty.

Items supplied by other manufacturers may require specific individual maintenance not listed herein. Please refer to the manufacturers' suggested maintenance guidelines in the Owner's Information Packet.

IMPORTANT

Cosmetic adjustments and alignments must be performed within the first three (3) months from date of original purchase for warranty consideration. Thereafter, these items are considered routine maintenance.

Every Three (3) Months

- Clean range hood exhaust fan filter and blades.
- Check gas lines for leaks with soap solution or leak detector.
- Test smoke alarm, carbon monoxide detector and LP gas detector.
- Check operation of windows, latches and hinges.
- Clean the roof ducted air conditioner filter(s).
- Clean and inspect all door and window seals; reseal where necessary.
- Inspect and reseal around the tub and shower area where necessary.
- Lubricate the exterior door hinges and latches with a graphite (silicone) lubricant.
- Check, clean and tighten battery cables, and inspect batteries for proper fluid level.

Every Six (6) Months

- Inspect the slide out for proper seal. If realignment is necessary, please contact an Authorized Newmar Service Center.
- Inspect the exterior rubber slide out seals and apply a UV inhibitor, such as 303 Protectant.
- Rotate tires as recommended by the tire manufacturer.
- Check all gas appliances for proper operation.
- Have the LP system inspected by a qualified technician.
- Lubricate the moveable parts on the entrance step.

Annually

- Inspection of roof seams and joints should be performed by an Authorized Newmar Service Center. If resealing is necessary, it is the owner's responsibility and is not covered by the Newmar Limited Warranty.
- Sanitize the fresh water system.
- Wax the vehicle as described previously in this chapter.

Winterizing

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

1. Drain the fresh water tank by opening the drain valves.
2. Open the low point drain valves. There is one drain valve for each water line, one cold and one hot. This is done to drain all of the water out of the system.
3. Close the low point drains to prevent the antifreeze from draining through the lines onto the ground.
4. Remove the drink dispenser water filter. See Chapter 11 for more information.
5. Close the water supply valve that flows from the pump to the tank.
6. Use only non-toxic antifreeze that has been approved for use in drinking/potable water systems. Place the in-take hose into the antifreeze supply. Open the antifreeze valve to allow the solution to flow freely. Once the water pump is turned on, proceed to the kitchen faucet, bath faucet, inside and outside shower, turning on the hot and cold, and flushing the stool until the antifreeze solution flows freely. If the unit is equipped with a washer, be certain to purge the air from it also. This forces the antifreeze through all of the water lines and faucets. It also allows the antifreeze solution to enter the drain lines and prevent the P-traps from freezing. Check the antifreeze solution from time to time to make sure there is an adequate supply.
7. Close the antifreeze valve when the winterizing process is complete. Store the in-take hose, and turn the water pump off.
8. Open the water supply valve that flows from the pump to the tank to help prevent freezing on that water line.
9. To de-winterize your unit, open both of the low point drains to allow the antifreeze solution to drain from the water system. Next, close the low point drains and connect your unit to city water. Put water in the fresh water tank and pump at least one gallon through the water pump in order to remove the antifreeze from the water pump. Keep the water heater supply valve closed and the water heater bypass valves open. The supply valve for the fresh water tank from the pump must remain closed. As in winterizing, open the kitchen faucet, bath faucet, inside and outside shower, turning on both the hot and the cold, and flushing the stool until the antifreeze solution is flushed out of the system and the water flows clear. Once the system has been flushed, open the water heater supply valve and close the water heater bypass valve. Open the fresh water tank supply valve from the pump and the ice maker valve. Reinstall the water filter. Be sure to close the fresh water tank drain valves to allow the tank to fill.

CHAPTER 15

CHARTS & DIAGRAMS

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IMPORTANT INFORMATION ABOUT YOUR LONDON AIRE DIESEL PUSHER MOTORHOME

Coach: Year 2000 Model _____ Serial # 5 _____

| Appliance | Brand | Model | Serial |
|-------------------------------------|-------|-------|--------|
| Refrigerator | _____ | _____ | _____ |
| Water Heater | _____ | _____ | _____ |
| Range | _____ | _____ | _____ |
| Converter | _____ | _____ | _____ |
| Washer | _____ | _____ | _____ |
| Dryer | _____ | _____ | _____ |
| Microwave | _____ | _____ | _____ |
| Icemaker | _____ | _____ | _____ |
| Television, front | _____ | _____ | _____ |
| Television, rear | _____ | _____ | _____ |
| Radio | _____ | _____ | _____ |
| CD Player | _____ | _____ | _____ |
| Generator | _____ | _____ | _____ |
| Air Conditioner, front | _____ | _____ | _____ |
| Air Conditioner, rear | _____ | _____ | _____ |
| Video Cassette Recorder (VCR) | _____ | _____ | _____ |
| Furnace, front | _____ | _____ | _____ |
| Furnace, rear | _____ | _____ | _____ |

MAINTENANCE RECORD

[illegible]

MAINTENANCE RECORD

[illegible]

MAINTENANCE RECORD

[illegible]

FUEL, OIL & MPG RECORD

[illegible][illegible]

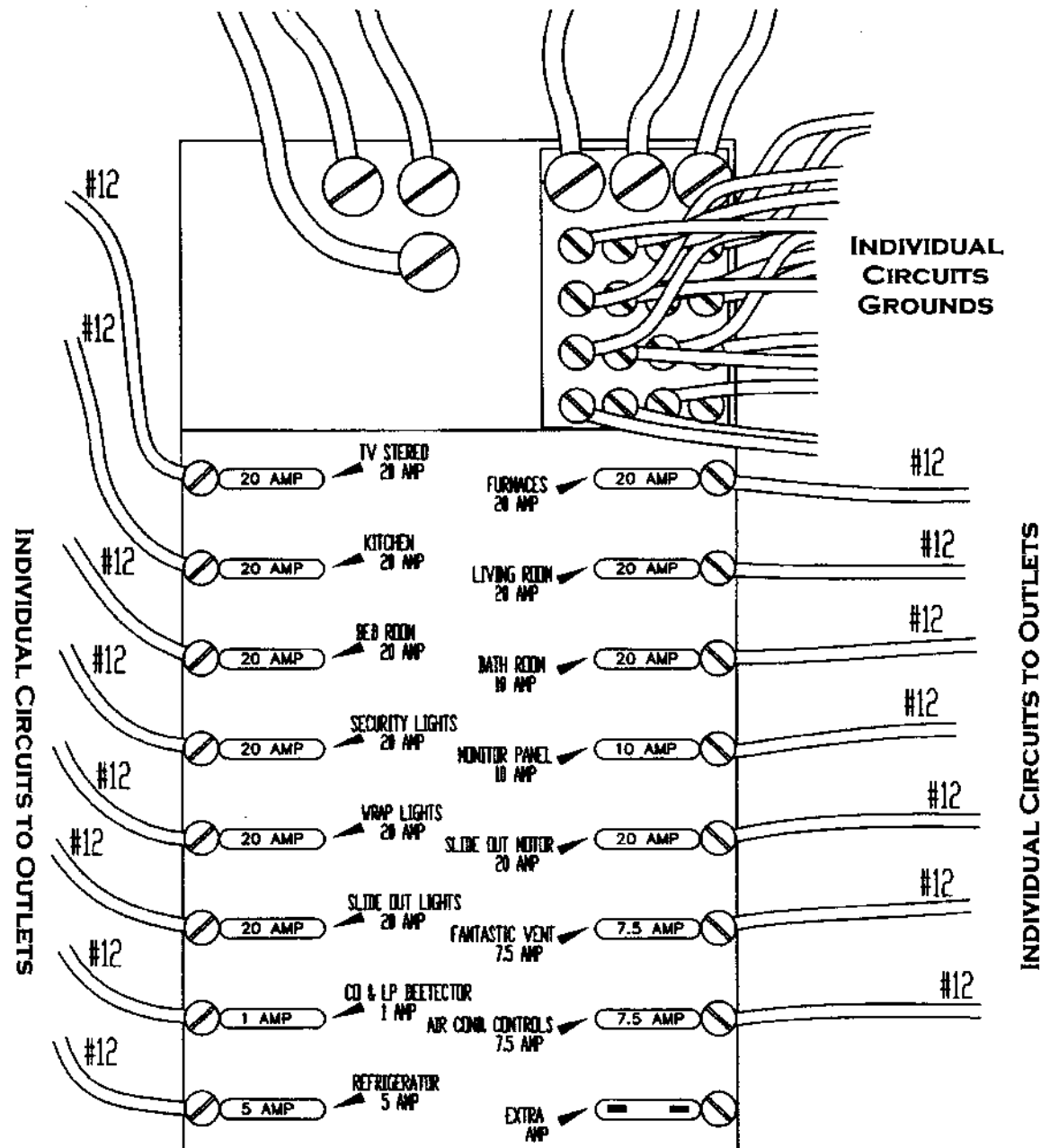
FUEL, OIL & MPG RECORD

[illegible][illegible]

12 VOLT DISTRIBUTION PANEL

HOT FEED LINES FROM BATTERIES
AND CONVERTER, WITH
OVERCURRENT PROTECTION

GROUND TO CHASSIS,
CONVERTER AND BATTERIES
MINIMUM SIZE #8



WIRE OVER CURRENT PROTECTION IS PER THIS CHART

| WIRE SIZE | AMPACITY | WIRE SIZE | AMPACITY |
|-----------|----------|-----------|----------|
| # 6 | 55 | # 8 | 40 |
| # 10 | 30 | # 12 | 20 |
| # 14 | 15 | # 16 | 8 |
| # 18 | 6 | | |

WIRING COLOR SCHEME

16 GAUGE

| | |
|---|-----------------|
| Grounds | White |
| Back-up Lights | Yellow |
| Ignition to Power Step | Pink |
| Clearance & Running Lights | Green |
| Right Turn Lights | Brown |
| Left Turn Lights | Red |
| Ignition to Slide Out Motor | Pink w/ Green |
| Class A Blower Fan (in holding tank area) | Orange |
| Slide Out Switch | Purple |
| Courtesy Lights (hot to switch) | Grey |
| Courtesy Lights (switched) | Grey w/ White |
| Detectors, CO & LP | Red w/ Black |
| Rear Center Brake Light | Blue |
| LP Fuel Gauge | Red w/ Yellow |
| Air Conditioner Controls | Pink w/ Black |
| Monoplex Water Pump Switch | Yellow w/ Black |
| Vent Thermostats | Black |
| | Red w/ White* |
| Water Heater DSI Switch Harness | Green w/ White* |
| | Blue w/ White* |
| | Red w/ White* |
| Onan Generator | Green w/ White* |
| | Blue w/ White* |
| | Brown* |
| | Blue* |
| Powertech Generator | Gray* |
| | Yellow* |
| | White* |

* - multiple applications for this color

WIRING COLOR SCHEME (CONT.)

12 GAUGE

| | |
|---|----------------------------------|
| Grounds | White |
| Living Room & Entryway Lights (hot to switch) | Red |
| Living Room & Entryway Lights (switched) | Red w/White |
| Bedroom Lights (hot to switch) | Orange |
| Bedroom Lights (switched) | Orange w/White |
| Bathroom Lights (hot to switch) | Brown |
| Bathroom Lights (switched) | Brown w/White |
| Kitchen Lights (hot to switch) | Green |
| Kitchen Lights (switched) | Green w/White |
| Wrap & Storage Compartment Lights | Black |
| TV and Stereo | Pink |
| Furnaces | Green w/Black |
| 3 Way Switches (commons) | Red w/Black |
| Electric Brakes (tandem axle) | Blue |
| Fantastic Vent and Water Heater | Brown w/Black |
| Monitor Panel | Yellow |
| Refrigerator Controls | Red w/Yellow |
| Security Lights (hot to switch) | Purple |
| Security Lights (switched) | Purple w/White |
| Slide Out Module (hot feed) | Green/Yellow |
| Slide Out Motor & Voice Module | Black w/Yellow & Red w/Yellow |
| Slide out Lights | Grey |
| Water Pump | Yellow w/Black |
| Power Step Switch | Black w/White |

WIRING COLOR SCHEME (CONT.)

10 GAUGE

| | |
|---|-----------------|
| Grounds | White |
| Living Room Entry Lights (hot feed) | Red |
| Bedroom Lights (hot feed) | Orange |
| Kitchen Lights (hot feed) | Green |
| Bathroom Lights (hot feed) | Brown |
| Freezer | Purple w/Yellow |
| Power Step (hot feed) | Green w/Black |
| Power Jacks | Yellow |

8 GAUGE

| | |
|-----------------------------------|----------------------------------|
| Grounds | White |
| Battery | Red |
| Converter | Black |
| Solar Prep | Green |
| 400 Watt Inverter (Class A) | Red 6 GA wire White 6 GA wire |

16 GAUGE

MONITOR PANEL TANK HARNESS

| | |
|------------------|---|
| Fresh Water Tank | White* Grey w/Black (replaces Red tank lead) * Black w/Yellow (replaces Blue tank lead) * |
| Grey Water Tank | White* Green w/White (replaces Red tank lead) * Blue w/Black (replaces Blue tank lead) * |
| Black Water Tank | White* Red w/White (replaces Red tank lead) * Blue w/White (replaces Blue tank lead) * |

* - multiple applications for this color

NOTES

ALL BREAKERS HACR TYPE

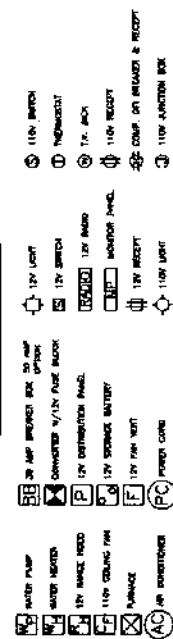
ALL AIR COND. MUST ACCEPT HACR BREAKER

ALL PRE-WIRE FOR AIR USE 20 AMP FUSE AT BREAKER BOX

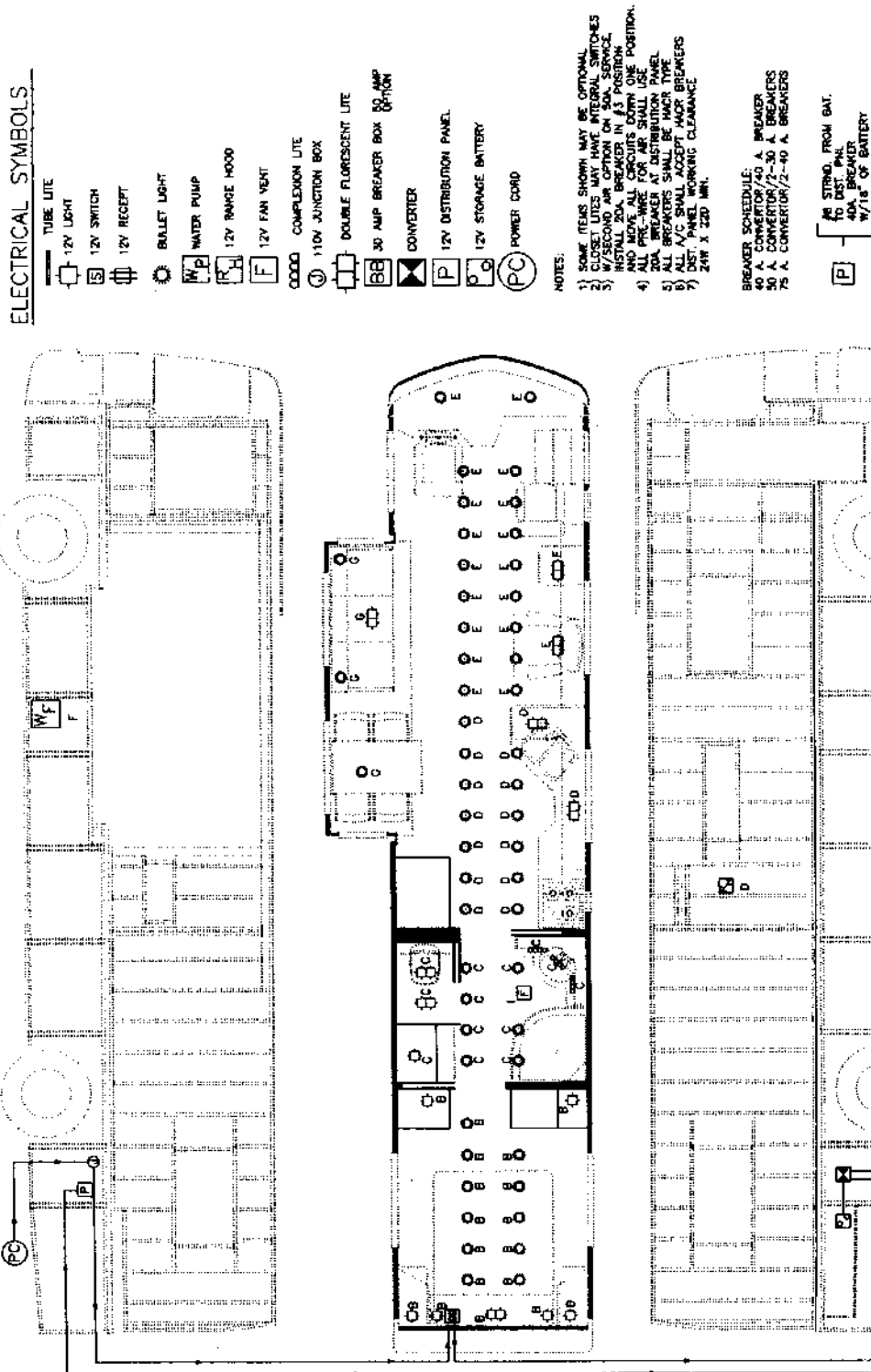
DISTRIBUTION PANEL EXPOSED TO AISLE SPACE

WORKING CLEARANCE MIN. 24" x 22"

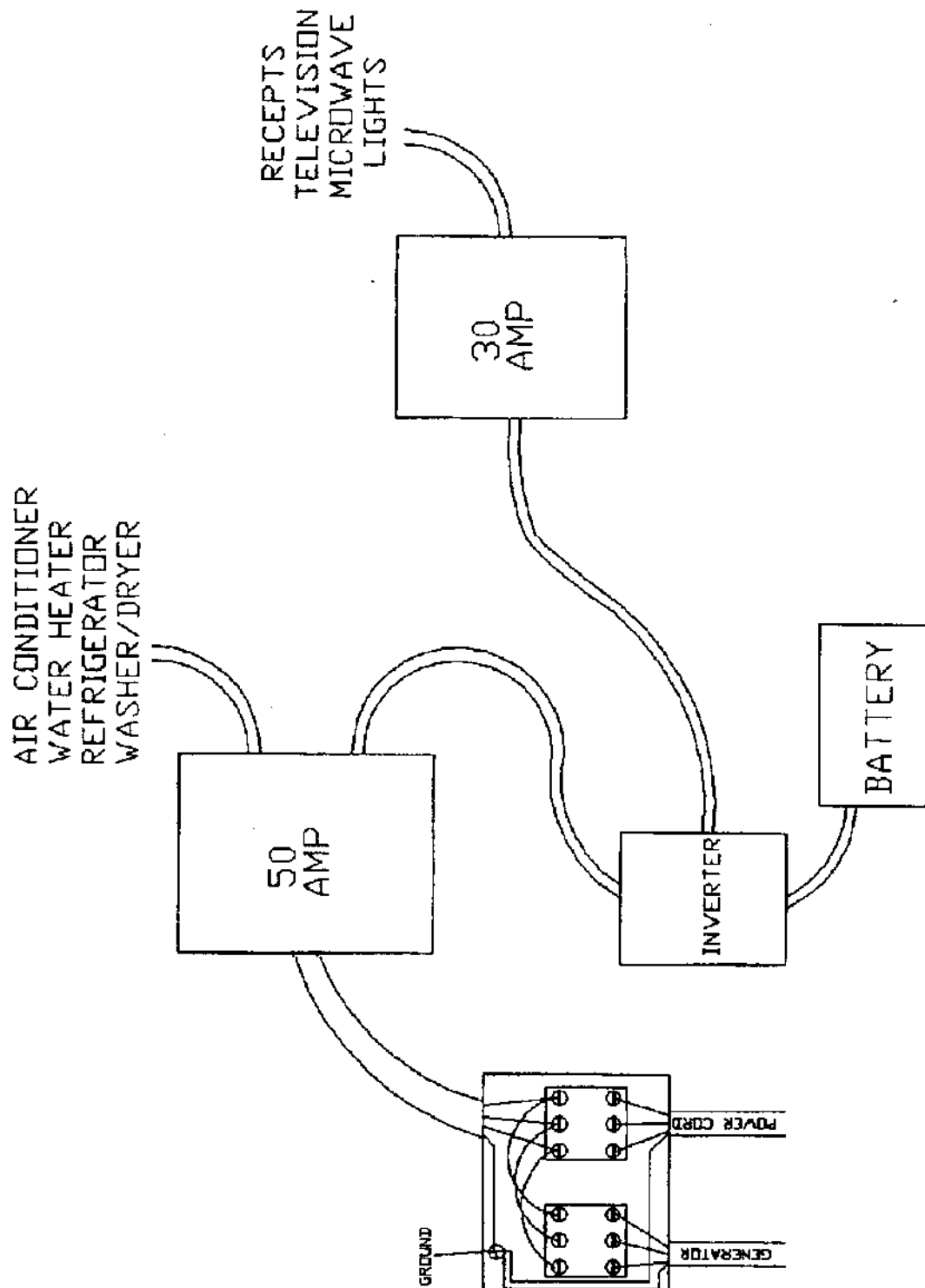
ELECTRICAL SYMBOLS



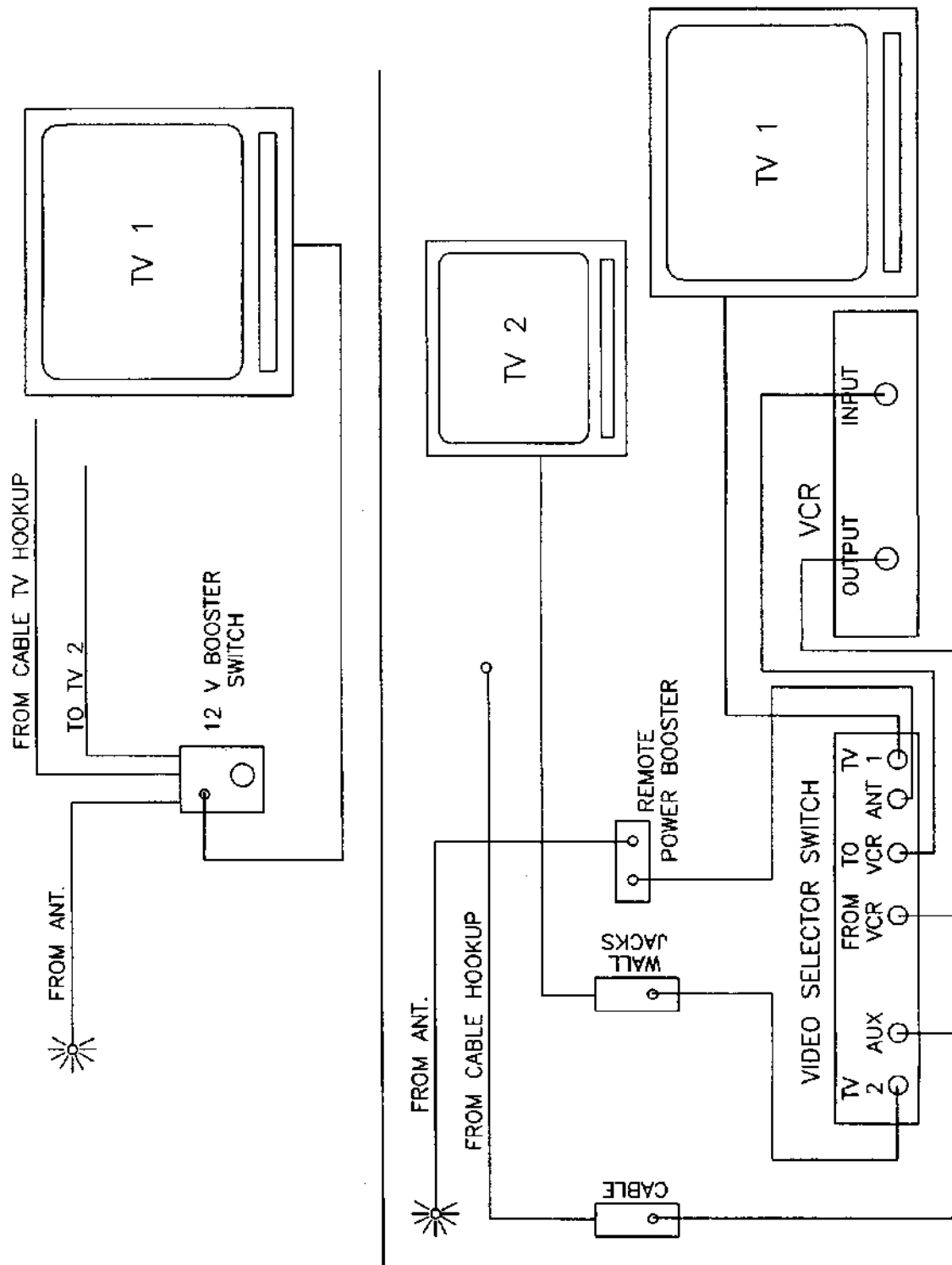
TYPICAL 12V WIRING DIAGRAM



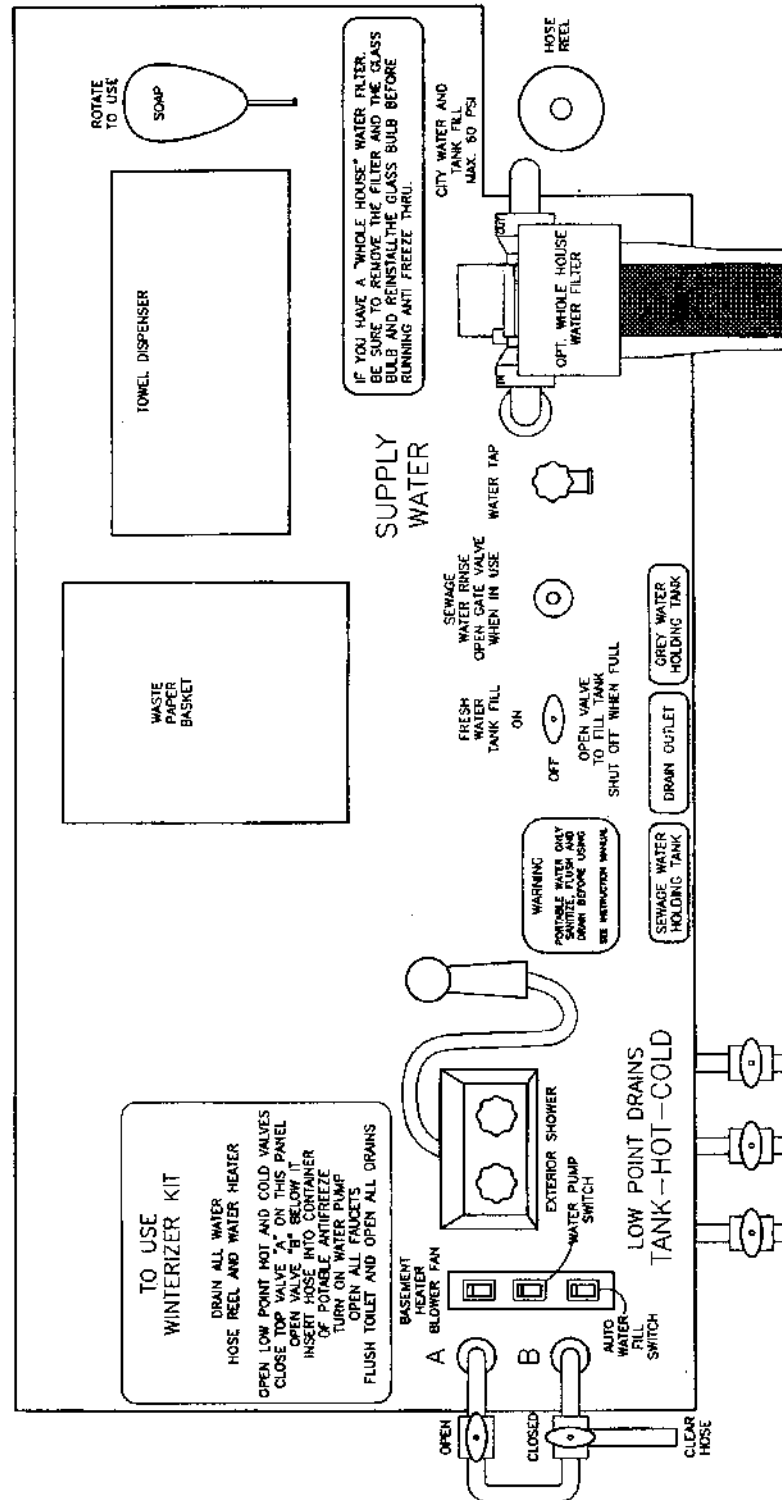
TYPICAL WIRING DIAGRAM FOR INVERTERS



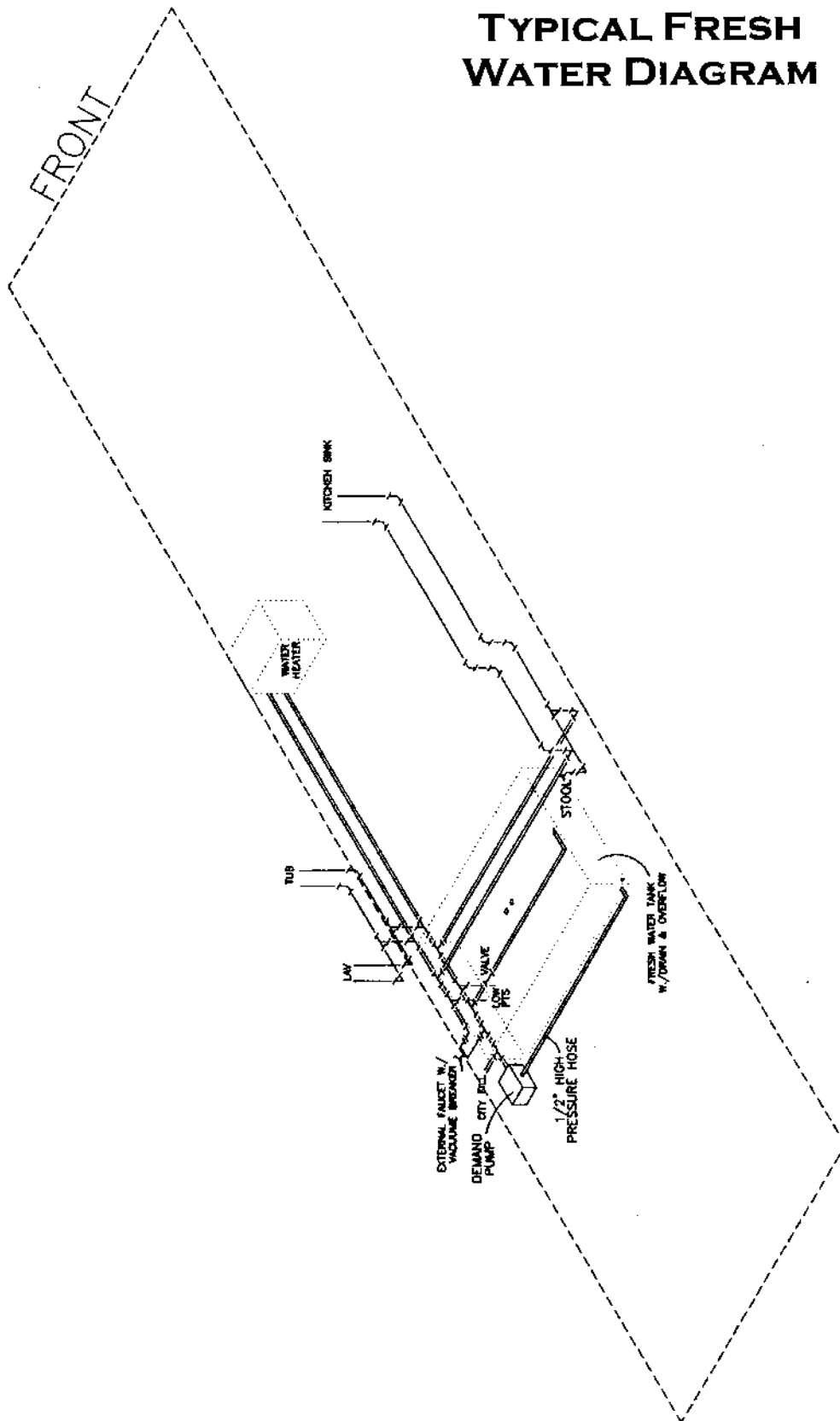
TV / VCR WIRING DIAGRAM



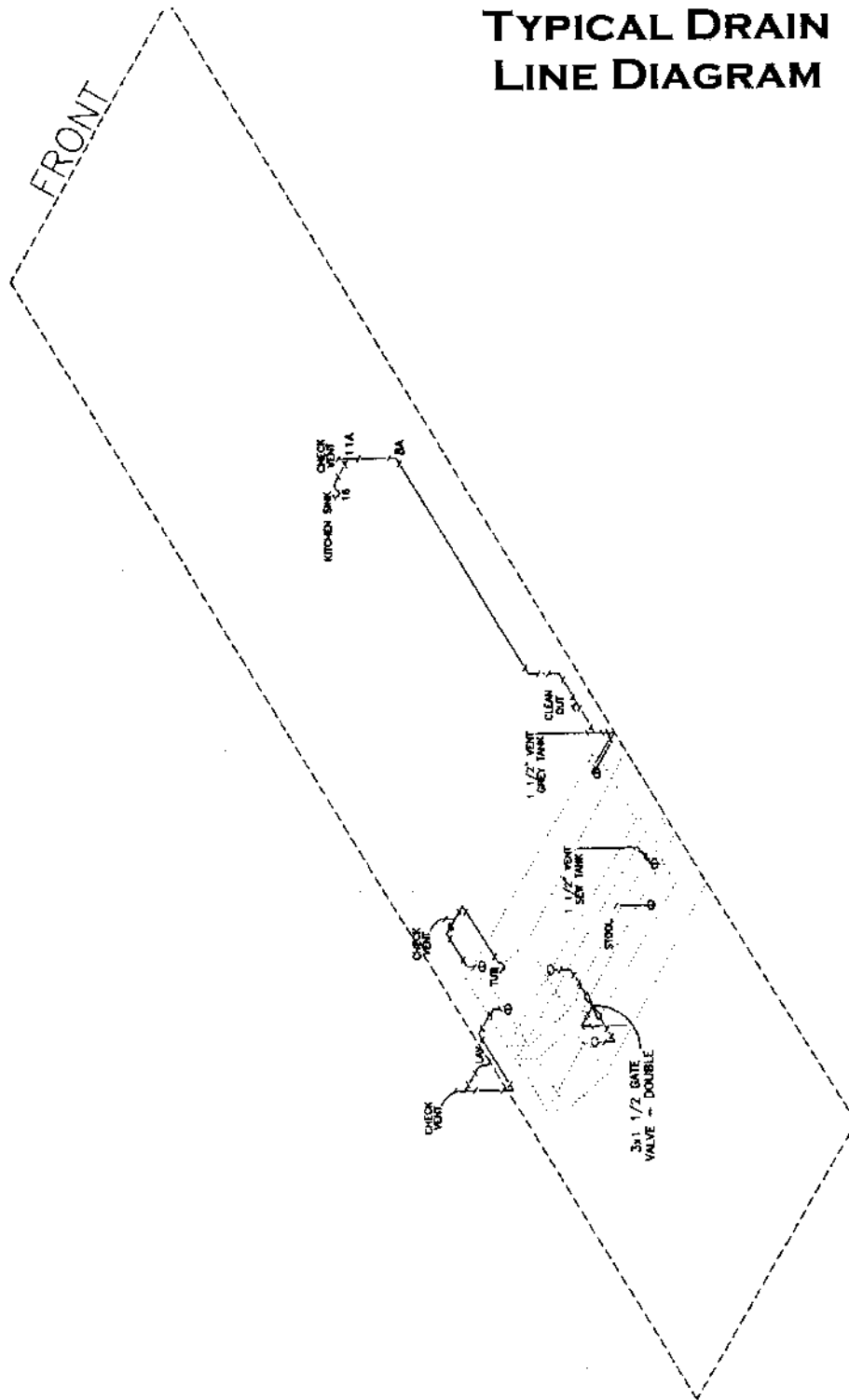
WATER WORKS SUPPLY CONTROL PANEL



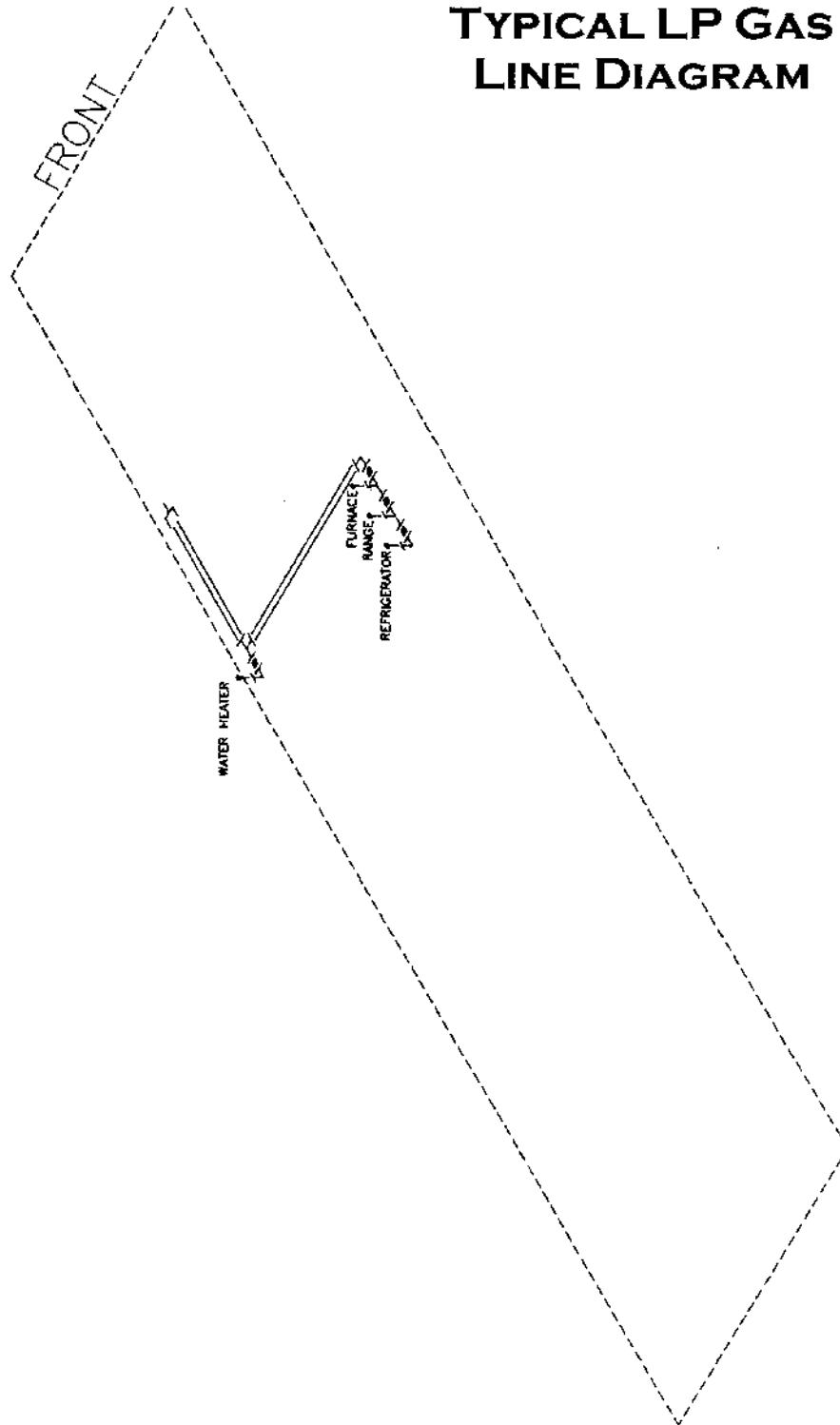
TYPICAL FRESH WATER DIAGRAM



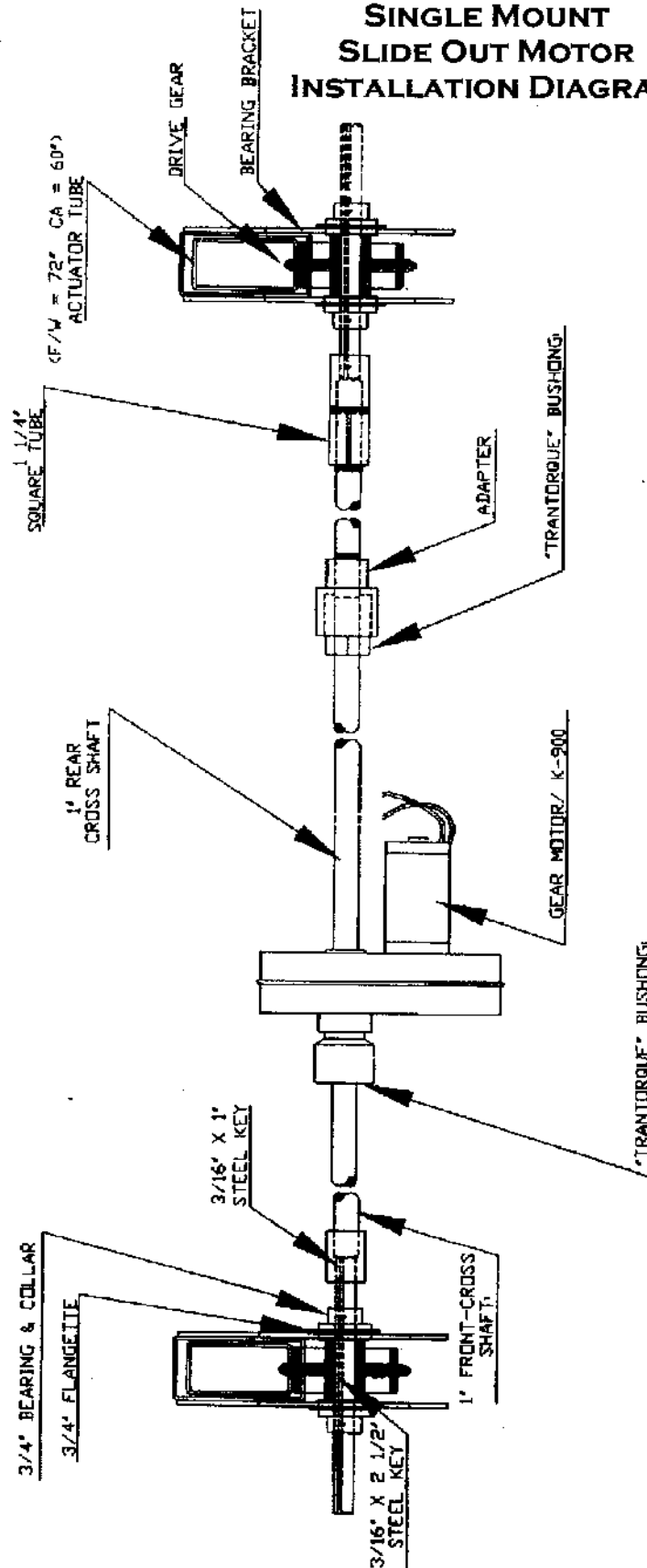
TYPICAL DRAIN LINE DIAGRAM



TYPICAL LP GAS LINE DIAGRAM



SINGLE MOUNT SLIDE OUT MOTOR INSTALLATION DIAGRAM



2000 LONDON AIRE DIESEL PUSHER

| DESCRIPTION | ITEM # |
|--------------------------------|----------|
| Air Horn | NK 28553 |
| Antenna, CB | QD 11569 |
| Antenna, Cellular Phone | QD 29642 |
| Antenna, Radio | QD 15654 |
| Antenna, TV | QD 28331 |
| A/C | QA 28164 |
| Bumper, Front | GG 31619 |
| Bumper, Front | GG 31617 |
| Bumper, Front | GG 31618 |
| Bumper, Rear | GG 31622 |
| Door, Entrance | ID 31732 |
| Door, Furnace | QC 21869 |
| Door, Refer Vent | QF 21816 |
| Door, Water Heater | QG 34617 |
| Faucet, Bath | CM 24645 |
| Faucet, Kitchen, Sgl Hdl | CM 24644 |
| Faucet, Shower | CM 17200 |
| Grab Handle, Door | NA 35057 |
| Grab Handle Ends, Chrome, Door | NA 12316 |
| Hood | GG 22028 |
| Light, Brake | EH 29685 |
| Light, Clearance, Amber | EH 33868 |
| Light, Clearance, Red | EH 33869 |
| Light, Clearance, Side(Turn) | EH 21391 |
| Light, Docking/Back Up | EH 34393 |
| | |
| | |

| DESCRIPTION | ITEM # |
|--------------------------|----------|
| Light, Driving | EH 34483 |
| Light, Driving | EH 34484 |
| Light, Head, Left Hand | EH 34485 |
| Light, Head, Right Hand | EH 34486 |
| Light, Scare | EH 10674 |
| Light, Spot | EH 34919 |
| Light, Tail, Left Hand | EH 28326 |
| Light, Tail, Right Hand | EH 28327 |
| Mirror, Rear View | NB 41236 |
| Recept, 12 Volt, Brown | EB 22281 |
| Recept, 12 Volt, White | EB 10641 |
| Recept, 120 Volt | EB 10551 |
| Recept, GFCI | EB 10553 |
| Register, Floor | QC 12292 |
| Register, Floor, Ceiling | QC 22580 |
| Skylight | IS 14607 |
| Step, Bumper, Fold-A-Way | NK 16169 |
| Step, Kwikkee | ID 34511 |
| Switch, 12 Volt, Double | EB 24810 |
| Switch, 12 Volt, Single | EB 24809 |
| Switch, 12 Volt, Triple | EB 24811 |
| Switch, 120 Volt | EB 10543 |
| T-Stat, Dometic | QA 27782 |
| T-Stat, FanTastic Vent | IS 01513 |
| Windshield Gasket | PE 31283 |
| Windshield, Left Hand | IO 31181 |
| Windshield, Right Hand | IO 31182 |