

NEWMAR CORPORATION OWNER'S GUIDE

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Welcome to the exciting world of recreational vehicle traveling and the growing Newmar family.

Congratulations on your purchase of a Newmar product. We sincerely thank you for choosing Newmar as your recreational vehicle. We hope that you will enjoy many miles of traveling. Your new vehicle was built with care using today's technology and old world craftsmanship. We, at Newmar, strive to build vehicles that are safe, dependable, and comfortable to provide you with years of carefree, pleasant traveling.

With your new RV purchase, Newmar provides a 36-month limited warranty. Please read the Newmar Limited Warranty and all other component warranties that apply to the equipment installed on your unit.

Carefully read both the instructions in this Owner's Guide and the booklets supplied by the component manufacturers for important operation, safety, and maintenance requirements/information. Your dealer should be consulted should you have any questions. If your dealer is unable to answer the questions to your satisfaction he will refer you to our staff for assistance. Our customers are extremely important to us and we will make every effort necessary to ensure your satisfaction.

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. Be sure to file the appropriate registration card with the component manufacturer as described with the individual instruction booklets to activate the warranties on the components within your Newmar RV. This Owner's Guide should be kept in your vehicle for quick reference. Take time to get acquainted with your unit and how it operates.

Again, thank you and welcome to the Newmar family.

Newmar Corporation

This 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 expressed 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 the components installed, 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 within the individual instruction booklet.

Newmar Corporation has compiled the most current information available at the time this guide was published. 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 Information 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 predelivery 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 checklist 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
Atlanta DTH Inc 770 451 0777
Atwood Mobile Products
A.S.A. Inc
Carefree of Colorado
Dometic, Duo Therm800-544-4881
Evans Tempcon
Fantastic Vents
Flexsteel
Ford Motor Company
Freightliner Chassis864-488-8388
Gekotek Electronics (Monitor Panel)
Generac Generators
Girard Awnings
Goodyear Tires
HWH Corporation
Hidden Hitch
IOTA
Interstate Batteries - 12 Volt
Interstate Batteries - 6 Volt
Kwikee Products
Magic Chef
Michelin Tires
Mito
Mobile Pro
Norcold800-543-1219
Onan Generators
Pioneer
PowerTech Generators
SeaLand Technology
Sears
Sony
Spartan Motors
Splendide Washer/Dryer800-736-4127
Suburban Mfg
Thetford Toilet
U-Line Ice Maker
Vehicle Systems
Ventline (Range Hood)
Winegard Antenna Systems
Workhorse Chassis877-946-7731
Xantrex800-446-6180

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.

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.

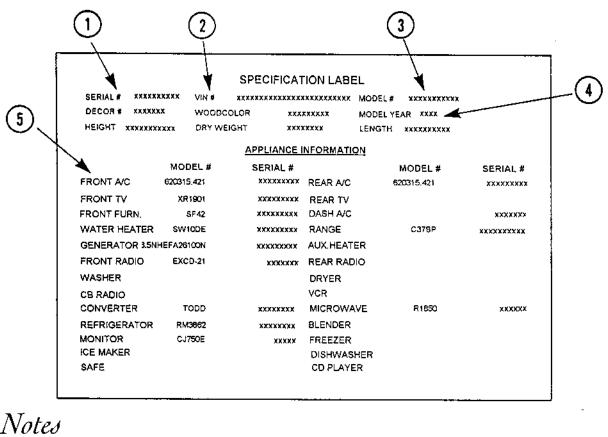
If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Newmar.

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



1votes			
		 	
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RECOMMENDED SERVICE CENTERS

ALABAMA

MADISON RV CENTER

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

MILLICAN RV AMERICA

36115 US HWY. 280 SYLACAUGA AL 35150 (256) 249-3773 Fax (256) 249-3958

ALASKA

A & M RV CENTER

2225 E 5TH AVE. ANCHORAGE AK 99501 (907) 279-5508 Fax (907) 272-4156

KAREN'S RV SERVICE CENTER

1850 VIKING DRIVE ANCHORAGE AK 99501 (907) 336-2055 Fax (907) 336-2054

ARIZONA

DESERT LAKES RV

4144 S. HWY. 95 BULLHEAD CITY AZ 86424 (520) 758-8800 Fax (520) 758-8877

LA MESA RV CENTER

3255 E. IRVINGTON RD. TUCSON AZ 85714 (520) 745-4900 Fax (520) 294-7635

LA MESA RV CENTER

6651 GILA RIDGE ROAD YUMA AZ 85364 (520) 344-4900 Fax (520) 344-0020

ROBERT CRIST RV

2025 E. MAIN STREET MESA AZ 85213 (480) 834-9410 Fax (480) 834-8238

STAR VALLEY RV

255248 E. HWY. 260 STAR VALLEY AZ 85541 (520) 468-2363 Fax (520) 468-8073

SUN CITY RV INC. 9045 NORTHWEST GRAND AVE. PEORIA AZ 85345 (623) 979-8585 Fax (623) 979-7121

WORLD WIDE RV

4660 E. MAIN STREET MESA AZ 85205 (480) 832-5600 Fax (480) 832-5632

arkansas

OUTDOOR LIVING CENTER

HWY, 7 SOUTH P.O. BOX 1081 RUSSELLVILLE AR 72801 (501) 968-7706 Fax (501) 968-4360

CALIFORNIA

ALPINE RECREATION SLS & SVC

19380 MONTEREY ROAD MORGAN HILL CA 95037 (408) 779-4511 Fax (408) 779-0754

DAVE ALTMANS RV

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

DAVE ALTMANS RV

22020 RECREATION ROAD CARSON CA 90745 (310) 518-6182 Fax (310) 513-0500

DAVE ALTMANS RV

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

LA MESA RV CENTER 1525 SIERRA HWY.

ACTON CA 93510 (661) 269-1565 Fax (661) 269-9243

LA MESA RV CENTER

5200 CHILES ROAD DAVIS CA 95616 (530) 750-5070 Fax (530) 750-3213

14. MESA RV CENTER

7430 COPLEY PARK PLACE
SAN DIEGO CA 92111
(858) 874-8000 Fax (858) 874-8042

MANTECA TRAILER & CAMPER

1990 E. YOSEMITE AVE. MANTECA CA 95336 (209) 239-1267 Fax (209) 239-4348

PAUL EVERT'S RV COUNTRY

3633 S. MAPLE FRESNO CA 93725 (559) 486-1000 Fax (559) 237-3298

COLORADO

ALPINE TRAVEL TRAILERS

2487 HIGHWAY 6 & 50 GRAND JUNCTION CO 81505 (970) 242-5898 Fax (970) 242-5989

J D L TRAILER SALES

2734 LAKE AVENUE PUEBLO CO 81004 (719) 564-8056 Fax (719) 564-0306

MOUNTAIN STATES RV

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

CONNECTICUT

DAVE'S RV CENTER

2 INDUSTRIAL PLAZA ROAD DANBURY CT 06810 (203) 730-1744 Fax (203) 730-1741

DELAWARE

SLICERS CAMPING TRAILERS

773 S. DUPONT HWY, NEW CASTLE DE 19720 (302) 836-4110 Fax (302) 836-4781

FLORIDA

DICK GORE'S RV WORLD

14590 DUVAL PLACE WEST JACKSONVILLE FL 32218 (904) 741-5100 Fax (904) 741-4905

FREIGHTLINER OF SO. FLORIDA

1699 N. US 1

FORT PIERCE FL 34950 (561) 466-9424 Fax (561) 466-5102

HARBERSON SWANSTON RV

17028 US HWY. 19 NORTH CLEARWATER FL 33764 (727) 539-8714 Fax (727) 539-1714

INDEPENDENCE RV

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

LAND YACHTS

1414 COMMERCE LANE P.O. BOX 1840 JUPITER FL 33468 (561) 745-0242 Fax (561) 745-1725 LEISURE TYME RV

1490 HWY, 98 WEST MARY ESTHER FL 32569 (850) 581-0880 Fax (850) 581-2300

LEISURE TYME RV

6428 PENSACOLA BLVD. PENSACOLA FL 32505 (850) 476-6848 Fax (850) 474-6392

NORTH TRAIL RV CENTER

5270 ORANGE RIVER BLVD. FORT MYERS FL 33905 (941) 693-8200 Fax (941) 693-9702 www.northtrailry.com

TRAVEL EASY SALES & SERVICE

4299 HWY. 441 SOUTH OKEECHOBEE FL 34974 (941) 467-0400 Fax (941) 467-9396 www.traveleasyrv.com

GEORGIA

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

GEORGIA MOUNTAIN RV INC.

1525 MINING GAP ROAD YOUNG HARRIS GA 30582 (706) 896-1000 Fax (706) 896-1010

IDAHO

AMERICAN WAY RV CENTER

4033 CHINDEN BLVD. BOISE ID 83714 (208) 345-6644 Fax (208) 345-5540

ILLINOIS

COLLIER RV CENTER

7373 HARRISON AVE. ROCKFORD IL 61112 (815) 332-3322 Fax (815) 332-8388

EHRHARDT'S TRAILER SALES

776 W. OAKTON ST. DES PLAINES IL 60018 (847) 437-3421 Fax (847) 437-3459 LARRY'S TRAILER SALES

HWY, 148 NORTH ZEIGLER IL 62999 (618) 596-6414 Fax (618) 596-6344

R & S SALES & SERVICE

218 S. LAKE OF THE WOODS ROAD MAHOMET IL 61853 (217) 586-2055 Fax (217) 586-2382 www.rsrvsales.com

TAYLOR BROWN

1400 LOCKE DRIVE BRADLEY IL 60915 (815) 933-2251 Fax (815) 933-9710

INDIANA

ALL BRAND RV SERVICE

2717-B OAKLAND AVE ELKHART IN 46517 (800) 981-7604 Fax (219) 522-2251

BASDEN'S AMERICAN RV CENTER

PO BOX 3641

EVANSVILLE IN 47735 (812) 867-5200 Fax (812) 867-4398

DONS CAMPER SALES

U.S. 41 S. BOX 373 BOSWELL IN 479 47921 (765) 869-5009 Fax (765) 869-5009 HART CITY RV SERVICE

2300 S. NAPPANEE STREET ELKHART IN 46517 (219) 295-5793 Fax (219) 295-6190

INDY RV CENTER

457 KNIGHT DR. GREENWOOD IN 46142 (317) 881-0300 Fax (317) 881-0431

PREMIER RV

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

TERRY'S RV SALES & SERVICE 2900 E. CR 350 NORTH

MUNCIE IN 47303 (765) 289-9704 Fax (765) 289-9737

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

WETNIGHT RV SALES & SERVICE 4401 US 41 NORTH TERRE HAUTE IN 47805 (812) 466-3961 Fax (812) 466-6851

IOWA

AUTORAMA RV CENTER

2227 SE 14TH DES MOINES IA 50320 (515) 282-0443 Fax (515) 282-1425

CHEYENNE CAMPING CENTER 2000 EAST LECLAIRE ROAD ELDRIDGE IA 52748

(319) 285-7878 Fax (319) 285-4455 HEROLD TRAILER SALES

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

WALKER TRAILER SALES INC. HWY. 18 WEST, BOX 633 NORA SPRINGS IA 50458 (641) 749-2321 Fax (641) 749-2379

KANSAS

A & R

16685 ORCHARD LANE STILWELL KS 66085 (913) 681-5446 Fax (913) 681-5446

HARPER CAMPERLAND

1200 E. 10TH GREAT BEND KS 67530 (620) 792- 5170 Fax (620) 792-8466

HARPER CAMPERLAND 117 W. 14TH

HARPER KS 67058 (620) 896-2862 Fax (620) 896-2858 HARPER KS www.harpercamperland.com

JAYHAWK CAMPER SALES

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

WILCOX HOMES & RV CENTER 835 NORTH EAST HWY, 24 TOPEKA KS 66608 (785) 357-5111 Fax (785) 232-1574

KENTUCKY

HALL ENTERPRISES INC.

1675 NORTH BROADWAY LEXINGTON KY 40505 (859) 233-1777 Fax (859) 231-9369

SUMMIT RV SALES INC.

6917 US 60 ASHLAND, KY 41102 (606) 928-6795 Fax (606) 928-4102 YOUNGBLOOD RV CENTER INC. 2132 STATE ROUTE #45 NORTH MAYFIELD KY 42066 (270) 247-8591 Fax (270) 247-0604

LOUISIANA

JACKIE EDGAR RV CENTER

3018 N.E. EVANGELINE THRUWAY LAFAYETTE LA 70507-3425 (337) 232-1941 Fax (337) 232-1950

MILLER RV

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

SOUTHERN RV INC. 3625 INDUSTRIAL DRIVE

BOSSIER CITY LA 71112 (318) 746-2267 Fax (318) 746-2227

MAINE

MOUNTAIN ROAD RV

31 MOUNTAIN ROAD SABATTUS ME 04280 (207) 375-4091 Fax (207) 375-4014

MARYLAND

BECKLEY'S CAMPING CENTER

11109 ANGLEBERGER ROAD THURMONT MD 21788 (301) 898-3300 Fax (301) 898-1017

MASSACHUSETTS

BOB'S CAMPER'& RV

2810 HANCOCK ROAD WILLIAMSTOWN MA 01267 (413) 458-3093 Fax (413) 458-9837

STEARNS RV SALES

71 MECHANIC ST. BELLINGHAM MA 02019 (508) 966-1220 Fax (508) 966-3408

MICHIGAN

BEECH GROVE TRAILER SALES 51439 M 40 NORTH

MARCELLUS MI 49067 (616) 646-7845 Fax (616) 646-2012

ERNIES RV SALES & SERVICE INC. 1066 STEPKE CT.

TRAVERSE CITY MI 49684 (231) 943-9111 Fax (231) 943-4441

GENERAL RV CENTER

17277 RANCHO ROAD BROWNSTOWN TWP MI 48192 (734) 284-5500 Fax (734) 284-5568

GENERAL TRAILER SALES 24583 N. RIVER ROAD

MT. CLEMENS MI 48043 (810) 954-3600 Fax (810) 954-0182

GENERAL TRAILER SALES

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

48500 12 MILE ROAD WIXOM MI 48393 (248) 349-0900 Fax (248) 349-7965

HILLTOP RV SUPERSTORE

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

INTERNATIONAL RV WORLD INC. 2717 E. DELTA ROAD

BAY CITY MI 48706 (517) 667-9840 Fax (517) 667-9843

JAYS RV CENTRE

1554 US 23 NORTH EAST TAWAS MI 48730 (517) 362-2910 Fax (517) 362-6611

KITSMILLER RV

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

MIDWAY MOTOR HOMES 5590 S. DIVISION AVE.

GRAND RAPIDS MI 49548 (616) 534-9641 Fax (616) 534-6869

MODERN TRAILER SALES

3449 S. DIVISION AVE. GRAND RAPIDS MI 49548-2110 (616) 241-2925 Fax (616) 241-5451

RANCH RV SALES INC.

6825 HWY. M-68 ALANSON MI 49706 (231) 548-5443 Fax (231) 548-2202

TC RV INC.

705 N. US 31 SOUTH TRAVERSE CITY MI 49684 (231) 943-4050 Fax (231) 943-4075

MINNESOTA

STENZEL'S CAMPERS

4701 HWY. 169 ELMORE MN 56027 (641) 948-3204 Fax (641) 948-3205

THERMO LEASING CORP.

8390 HWY. 10 NORTH WEST ANOKA MN 55303 (763) 421-2505 Fax (763) 421-6076

MISSISSIPPI

AMERICAN RV CENTERS, INC.

8150 CRAFT ROAD OLIVE BRANCH MS 38654 (662) 893-3040 Fax (662) 893-3044

PAW PAW'S CAMPER CITY

5551 I-S5 SOUTH JACKSON MS 39212 (601) 376-0610 Fax (601) 376-0414

RV REPAIR & SALES

4749 HWY. 80 WEST JACKSON MS 39209 (601) 922- 9425 Fax (601) 922-5153

MISSOURI

ALL SEASONS RV

2500 NW SOUTH OUTER ROAD BLUE SPRINGS MO 64015 (816) 228-6200 Fax (816) 224-4600

BEN'S RECREATIONAL VEHICLES RR B BOX 167

CANTON MO 63435 (573) 288-3287 Fax (573) 288-3287

CAPETOWN R V SALES

I 55 & AIRPORT ROAD CAPE GIRARDEAU MO 63702 (573) 334-7152 Fax (573) 334-9059

COACHLIGHT RV SALES

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

FRANK REED RV

HWY. 47 NORTH ST. CLAIR MO 63077 (636) 583-2244 Fax (636) 583-2147

K C TRAILER SALES

11520 S. 71 HWY. KANSAS CITY MO 64137 (816) 761-1393 Fax (816) 761-7722 THOMAS BILL CAMPER SALES

5217 N. LINDBERGH ST. LOUIS MO 63044 (314) 731-2217 Fax (314) 731-0269

MONTANA

BRETZ RV & MARINE

RESERVE STREET AT I-90 4800 GRANT CREEK ROAD MISSOULA MT 59808 (406) 541-4800 Fax (406) 541-4813

NEBRASKA

RICH & SONS CAMPER SALES

5112 S. ANTELOPE DRIVE GRAND ISLAND NE 68803 (308) 384-2040 Fax (308) 384-2043

NEVADA

WHEELERS LAS VEGAS RV

13175 LAS VEGAS BLVD, SOUTH LAS VEGAS NV 89124 (702) 896-9000 Fax (702) 896-4504

NEW HAMPSHIRE

C H DANA RV SALES & SVC

628 WOODSVILLE RD. MONROE NH 03771-3328 (603) 638-2200 Fax (603) 638-2066

CAMPERS INN OF KINGSTON

146 ROUTE 125 KINGSTON NH 03848 (603) 642-5555 Fax (603) 642-9931

MOUNTAIN VALLEY RECREATION

410 MAIN STREET

GORHAM NH 03581 (603) 466-3868 Fax (603) 466-2416

NEW JERSEY

SCOTT MOTOR COACH SALES

1133 ROUTE 88 LAKEWOOD NJ 08701 (732) 370-1022 Fax (732) 905-0993

NEW MEXICO

ALOHA RV

8300 PAN AMERICAN FWY., NE, STE. A ALBUQUERQUE NM 87113 (505) 797-8444 Fax (505) 797-3999

AMERICAN HOLIDAY RV

9999 CENTRAL N.E. ALBUQUERQUE NM 87123 (505) 299-6838 Fax (505) 296-0215

AMERICAN RV & MARINE

11810 CENTRAL S.E. ALBUQUERQUE NM 87123 (505) 293-1983 Fax (505) 293-6991

AMERICAN RV & MARINE

200 NORTH TELSHORE BLVD LAS CRUCES NM 88011 (505) 522-5512 Fax (505) 522-3781

ROCKY MOUNTAIN RV & MARINE

12700 CENTRAL SE ALBUQUERQUE NM 87123 (505) 292-7800 Fax (505) 292-7993

NEW YORK

ALL AMERICAN RV/BARRETT

674 QUAKER ROAD QUEENSBURY NY 12804 (518) 793-5212 Fax (518) 792-1988

BALLARDS CAMPING CENTER

S - 5849 SOUTHWESTERN BLVD. HAMBURG NY 14075 (716) 649-9654 Fax (716) 648-0340 FREEDOM RV OUTLET

103 SITTERLY ROAD CLIFTON PARK NY 12065 (518) 371-1289 Fax (518) 371-3001

JOURNEYTIME TRAILERS INC.

940 MIDDLE COUNTRY ROAD SELDEN NY 11784 (631) 698-0055 Fax (631) 736-6622

SEVEN O'S

7917 DEVAUL ROAD KIRKVILLE NY 13082 (315) 687-9342 Fax (315) 687-7992

SKYWAY RV CENTER

ROUTE 52 GREENFIELD PARK NY 12435 (845) 647-3100 Fax (845) 647-5814

WES TRAILER SALES

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WILKINS RV INC.

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HOWARD RV CENTER

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OLD TOWN CAMPER SALES

\$109 NORTH CAUSEWAY DRIVE WINSTON - SALEM NC 27106 (336) 924-9864 Fax (336) 922-1458

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CAPITAL RV CENTER

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ARBOGAST RV DEPOT

3540 SOUTH COUNTY ROAD 25A TROY OH 45373 (937) 335-0068 Fax (937) 335-0471

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LARRY'S RV INC. 2115 NE HWY. 20 BEND, OR 97701

(541) 388-7552 Fax (541) 388-7526

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6503 ALEXANDER HILLSBORO OR 97123 (503) 649-2141 Fax (503) 642-9579 www.olingertravelhomes.com

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9401 S. E. 82ND PORTLAND OR 97266 (503) 771-2121 Fax (503) 771-4638 www.olingertravelhomes.com

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1510 W. MARKET STREET ROCKPORT TX 78382 (361) 729-9695 Fax (361) 729-9698

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5624 AIRPORT FREEWAY FORT WORTH TX 76117 (817) 831-4222 Fax (817) 838-5574

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BLAINE JENSEN & SONS RV CTRS.

780 N, 900 WEST KAYSVILLE UT 84037 (801) 544-4298 Fax (801) 544-0513

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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 the chassis manufacturer operator's manual. It is important 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. Also, verify that the Jake brake is in the off position. 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.

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WARNING

LP gas containers, gasoline or other flammable liquids shall not be placed or stored inside the vehicle because fire or explosion may result.

WARNING

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.

- While refilling the fuel, the engine must be off, all pilot lights must be extinguished, and appliances turned off. Smoking is also prohibited at this time.
- An open flame is never to be used to test for LP gas leaks.
- The use of equipment such as wood and charcoal grills and stoves inside this recreational vehicle may cause fires or asphyxiation.

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

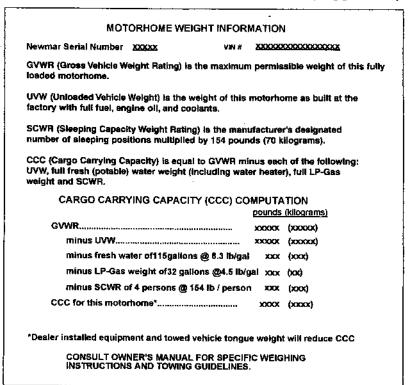
The battery powered smoke detector is mounted on the ceiling in the living area of the unit. Read the operating instructions for details on the testing and care for this important safety device. Test the smoke detector after the unit has been in storage, before each trip, and at least once a week during 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 Winдow

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 handles and the red "EXIT" label. To open the egress window, lift the handles and push outward on the window. The window can be closed by pulling the window closed and lowering the handles to the down or locked position.

WEIGHT INFORMATION

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



Weighing the Unit

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

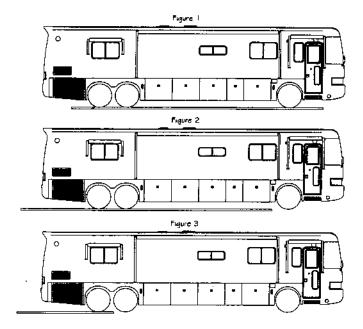
- GAWR: Gross Axle Weight Rating is the maximum permissible weight for an axle. This takes into consideration the weakest link in the tire, wheel, brakes, hubs, axle, springs, and attaching parts. For example, if the axle is rated at 15,000 pounds and the tires are rated at 3,415 pounds each as a dual, the maximum GAWR would be 13,660 pounds with four tires.
- GCWR: Gross Combined Weight Rating is 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 is the maximum permissible weight of this fully loaded motorhome. The GVWR is equal to or greater than the sum of the Unloaded Vehicle Weight plus the Cargo Carrying Capacity.
- UVW: Unloaded Vehicle Weight is the weight of the motorhome 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.
- CCC: Cargo Carrying Capacity is equal to GVWR minus each of the following: UVW, full fresh (potable) water weight (including water heater), full LP-Gas weight and SCWR.
- 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.
- SCWR: Sleeping Capacity Weight Rating is the manufacturer's designated number of sleeping positions multiplied by 154 pounds (70 kilograms).

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 CCC. 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.

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- 1. Pull the unit onto the scales shown in figure 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 figure 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.
- 3. If the unit has a tag axle (an axle behind the drive axle), you should move the vehicle so that the tag axle is the only axle remaining on the scales as shown in figure 3. Record the weight. This weight should not exceed the weight rating of the tag axle. The drive axle weight is determined by subtracting the weight recorded in this step (Step 3) from the weight obtained during Step Two (2) above. This amount should not exceed the rating of the drive axle.

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 class three, 5,000 pound car towing hitch and wire connector. Two extra 14 gauge wires are also included for your use. 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 in your Owner's Information Package. 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 active brakes. The wire connector installed is the standard seven-pin connector. Chapter 7 of this guide will have more information regarding this connector.

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CHAPTER 3

AIR CONDITIONING & HEATING

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AIR CONDITIONER

The basement model central air conditioner/heat pump 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 conditioner circuit breaker must be in the ON position to work.

To assist the air conditioner 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 normally not a result of a defect in your electrical system.

The cool air from the air conditioner is routed throughout the coach ceiling through air ducts. Below is a drawing of the thermostat that controls the air conditioner. It also controls the heat pump and furnace. Simply select the desired temperature. The blower will cycle automatically or you may choose low, medium, or high fan settings. The heat pump installed in the air conditioner is used to warm the living areas of the unit. The heat pump is not intended to heat the unit but rather take the chill off.

Your motorhome is also equipped with a dash air conditioner/heater equipped with automatic climate control and independent settings for the driver and passenger.

IMPORTANT

When setting the thermostat, remember that ALL ZONES MUST BE IN THE SAME MODE FOR PROPER OPERATION. This means when cooling the unit, each zone must be in the cool mode. When using the heat pump, each zone must be in the heat mode.

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Step One: Move power switch to ON.

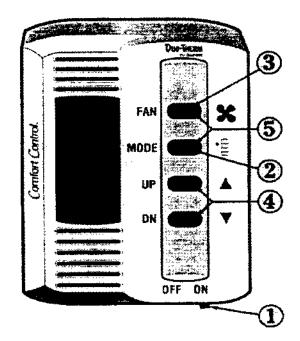
Step Two: Press MODE button to select function. (COOL*, FURNACE, FAN ONLY, etc.)

* 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 coach is an Aqua-Hot Hydronic Zone Heating System. This type of furnace provides hydronic "radiator" type of heating. The furnace operates on 120 volt electricity when connected to shore power or diesel fuel from the vehicle fuel tank when shore power is not available.

To operate the furnace, first set the thermometer zone to the FURNACE mode. Then select the desired temperature by using the UP or DOWN arrows. Next press the ZONE button to toggle to the next zone or letting the thermostat sit idle for a few seconds will store the temperature setting in the thermostat memory. This process should be done for each zone. Prior to furnace operation with diesel fuel, the diesel burner must be ignited. This is done by pressing the AQUA HOT DIESEL BURNER switch that may be located in the passenger overhead control panel.

There are five heat exchangers located throughout the living area of this unit. They are located in the bedroom, bathroom, kitchen, under the dash, and in the water works compartment. Remember, the heat exchanger under the dash is not a part of the chassis air-conditioning/heating system. Each heat exchanger operates as an individual furnace. A

separate temperature setting can be selected for each one. The hydronic heat exchangers in the living areas are controlled by the air conditioner wall thermostat. There are three zones of heating, two of which are in the living area. The zones are listed below:

Zone 1 Heat Exchanger under the dash, in the kitchen, and air

conditioner.

Zone 2 Heat Exchanger in the bedroom area.

Zone 3 Heat Exchanger in the bathroom area and in the water works

compartment.

As mentioned above, there is a heat exchanger located in the waterworks compartment. This heat exchanger is controlled by a separate thermostat located in the compartment area. Also, to assist in heating your motor home, a dash heating system with automatic climate control has been installed.

IMPORTANT

When setting the thermostat, remember that ALL ZONES MUST BE IN THE SAME MODE FOR PROPER OPERATION. This means when heating the unit with the furnace, each zone must be in the FURNACE mode.

WARNING

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

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.

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 LP detector user's guide for more detailed information.

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CHAPTER 4

APPLIANCES & ACCESSORIES

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MAJOR APPLIANCES

Refrigerator

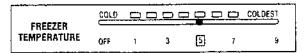
The refrigerator should always be plugged into its own individual properly grounded electrical outlet rated for 115 volts, 60 Hz, AC only and fused at 15 or 20 amperes. This provides the best performance and also prevents overloading house wiring circuits which could cause a fire hazard from overheated wires. It is recommended that a separate circuit serving only this appliance be provided. Use a receptacle which cannot be turned off with a switch or pull chain. Do not use an extension cord.

WARNING

Because of potential safety hazards under certain conditions, we strongly recommend against the use of an extension cord.

TEMPERATURE CONTROLS (appearance may vary)

At first, set the freezer and fresh food controls at "5."



COLD	<u></u>	_	<u> </u>	0	<u></u>	COLDEST	FRESH FOOD
1	3		5		7	9	TEMPERATURE

Two controls located in the back of the refrigerator let you regulate the temperature in the fresh food and freezer compartments. At first, set the freezer and fresh food controls at "5." Allow 24 hours for the temperature to stabilize, whether you are setting the controls for the first time or re-adjusting them. Then, if you want colder or warmer temperatures in either compartment, gradually adjust the controls. To test the fresh food compartment, place a bulb-type thermometer into a jar of water on the top shelf. Check it one day later. To test the freezer compartment, put a bulb-type thermometer between two or three frozen packages in the center of the freezer. Check it one day later.

NOTE: Turning the freezer control to OFF turns off cooling in both the freezer and fresh food compartment, but does not shut off power to the refrigerator.

The Temperature Controlled Meats drawer has its own cold air duct to allow a stream of cold air from the freezer compartment to flow around the drawer. The variable temperature control regulates the air flow from the freezer compartment. Set the control lever down to

the coldest setting to store fresh meats. If lever is left in meat position for a long period of time, some frost may form on the inside of the drawer. Set control level up to convert the drawer to normal refrigerator temperature and provide extra vegetable storage space. Cold air duct is turned off. Variable settings between these extremes can be selected.

On some models the other drawers in the refrigerator have individual, adjustable humidity controls that let you control the amount of cold air entering the drawers. Slide the control all the way to the high setting and the drawer provides higher humidity levels recommended for most leafy vegetables. Slide the control all the way to the low setting and the drawer provides lower humidity levels recommended for most fruits.

A feature on this refrigerator is an automatic icemaker. A newly installed refrigerator may take up to 24 hours to begin making ice. The icemaker will produce eight cubes per cycle approximately 120 cubes in a 24-hour period - depending on freezer compartment temperature, room temperature, number of door openings, and other use conditions. For operating instructions, please consult the manufacturer's information in your owner's information packet.

The Kenmore Filtration System cartridge is located in the upper right-hand corner of the fresh food compartment, right below the temperature controls. The filter cartridge should be replaced every six months or earlier if the flow of water to the water dispenser or icemaker decreases. For installing instructions, please consult your manufacturer's information supplied with your owner's packet.

Before traveling, be sure to attach the rubber strap on the bottom of the refrigerator doors, if one is installed. This strap secures both doors and does not allow them to open while the coach is moving.

Microwave

A 30" microwave may be installed in your unit. 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. The microwave is plugged into the electrical outlet through a 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 Information Package.

Range Hood

The range hood may be 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

The range installed in this unit may be a three burner electric cooktop equipped with a bifold range cover. The burners on the range top are not equipped with a pilot light. To operate, push the knob down to clear safety lock and turn counter clockwise to the desired setting. The indicator light will indicate when the burners are on. **Caution**: The entire cooktop surface may be hot, even when using only one burner. For further instructions, refer to the manufacturer owner's manual in your Owner's Information Package.

Your range may be equipped with a bifold range cover that matches your countertop material. This cover helps to protect the burners when they are not in use. Before cooking on the range top, the cover must be in the full upright and folded position, preventing the cover from falling on the range top during cooking. Never close the cover while the burners are in use and do not use the cover as a griddle. Never use the range while the RV is moving and remember to close the bi-fold cover when the range top is not in use.

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:

- 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

Antenna Dish & Satellite Receiver

Your unit may be equipped with an in-motion satellite system and DSS receiver. This system is an automatic satellite scanning system for recreational vehicles. This system eliminates the need to execute long and difficult setup procedures. Viewing television broadcasts in minutes can be accomplished by simply pressing a button. Within minutes after initiating the automatic set-up, an extraordinary picture will be received accompanied with CD-quality

sound. For detailed operating instructions on this satellite system, please consult the manufacturer user's guide in the Owner's Information Package.

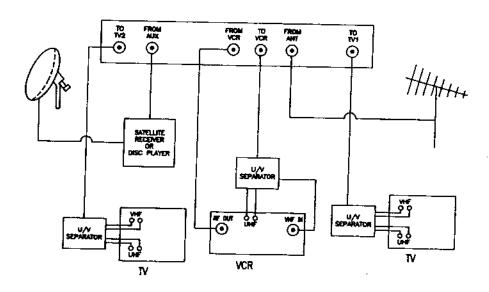
Television

Your unit may be equipped with a surround sound entertainment system. The coach is cable ready and as standard equipment may have a 27" color television in the dash overhead and a 20" color television/VCR combination with a radio and clock in the bedroom. The televisions are powered by 120 volt electricity. The television located in the dash overhead is plugged into a 120 volt lockout receptacle. This receptacle will prevent operation of the television while the ignition switch is in the "ON" position. Your coach must be plugged into shore power, or the generator running, in order for the television to work. The operation of either television is similar to most televisions used in the home. The main unit has the basic power, volume up and down, channel up and down, and a set-up control. The remote control has these in addition to many other function keys. The sound from the dash television can be routed throughout the unit by using the dash stereo. Once the television is set up for stereo output, and the dash stereo on "AUX PLAY," the speakers located throughout the unit will carry the program being viewed.

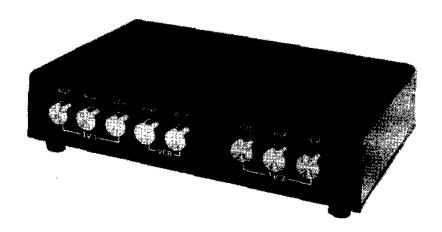
Your unit may also be equipped with an external entertainment system. If so, a stereo, television, and VCR are available for you to enjoy while entertaining outside your coach. Please consult your television Owner's Manual for further information. An exterior television jack may be located on the door-side of your coach.

Video Control Center

Installed in your vehicle as part of the standard equipment may be 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 stereo video cassette recorder (VCR) is installed in your coach as standard equipment. It is located in the living room entertainment center. The operation 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 Information Package. The video switch previously described will assist you in directing the VCR signal to the television of your choice.

Cable & Telephone Jack

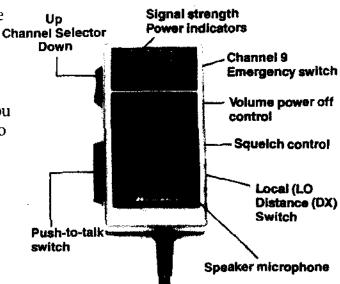
An exterior cable jack and receptacle may be standard features on this coach and may be installed in the compartment beside the entrance door. Another standard feature on this coach may be the telephone hook up. This will allow the user to connect the coach to a telephone cable, if the park is so equipped. This feature includes the connector for the incoming telephone line and three phone jacks.

Stereo

Your coach may be equipped with a dash stereo as standard equipment. An AM/FM radio with a remote compact disc player equipped with an eight disc changer and subwoofer may be installed. The stereo operates on 12 volt electricity from the coach batteries. Also part of the dash stereo is a rear view color monitor system. For operating instructions, please consult the manufacturer's literature in your Owner's Information Package.

СВ Кадіо

This coach may be 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 have been installed on this coach. Air horns are 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.

Freezer

The installation of a 100 pound Norcold freezer in an exterior storage compartment may be a standard feature 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 pretravel 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 Information Package provided with this coach.

Coffee Maker

A coffee maker may be 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.

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.

Washer/Dryer

Standard on this unit is the installation of the compact washer/dryer unit. The washer/dryer installed by Newmar functions similar to most major appliances, operating on 120 volt electricity. For more detailed information on the operating instructions, read the appliance owner's manual in the Owner's Information Package.

CAUTION

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

Carbon Monoxide

Carbon monoxide is a colorless, tasteless, odorless gas. It is a by-product of the burning of fossil fuels (gasoline, 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.

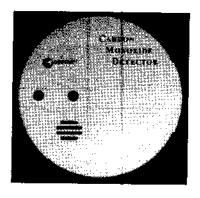
If you, or anyone else, experience any carbon monoxide symptoms (dizziness, nausea, vomiting, muscular twitching, throbbing in the temples, inability to think coherently, weakness and sleepiness, or intense headaches) exit the coach immediately. Seek medical attention if symptoms persist. Shut down the 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 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 CO detector User's Manual for more detailed information.



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.

Navigation System

A standard feature on this unit may be the installation of the navigation system equipped with with a seven-disc set. This system will be displayed on the Rear View Monitor screen and assist you with turn-by-turn route guidance and information whether you are traveling in unfamiliar areas or looking for the nearest gas station. For more detailed information on the navigation system, please consult the owner's manual that can be found in the Owner's Information Package.

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CHAPTER 5

CABINETS & FURNITURE

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CABINETS

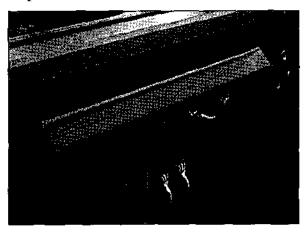
The cabinets in this unit are constructed on site at the Newmar production facility. Depending on the floorplan of your unit, cherry hardwood cabinetry with raised panel cathedral style doors are standard. There are three decor options regarding this cabinetry. They are oak, frosted maple, and pecan maple. Nevamar Impressions cabinetry is only standard on floorplan 4570. You will find a small maintenance kit supplied with your coach for the Impressions interior. 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. Adjustable pull out pantry boxes may be standard in the kitchen. In the bedroom, a 12 volt power assisted bed top lift may be installed to help access additional, convenient storage room under the bed platform. Once the bed platform is lifted, it is held open by pressurized struts to allow hands-free access.

The countertop in the kitchen has a decorative inlay and integrated sink. To clean, wipe with a damp cloth and for "dried on" spots or rings, wipe with a damp cloth and a mild liquid soap. Strong chemicals and solvents may damage the surface and should be wiped up immediately, then rinse the surface with water. Avoid cutting directly on the countertop surface, avoid excessive heat, and keep harmful chemicals away to avoid countertop surface damage.

In the bathroom, the countertop also has a decorative inlay and integrated lavatory. Consult the manufacturer's care instructions in the Owner's Information Package provided with this unit for more information regarding your countertop.

On most floor plans, the "drawer" directly in front of the kitchen sink does not pull out, but rather flips down. This provides a storage tray for dish cloths, scouring pads, wash cloths, etc. The silverware drawer contains a molded silverware divider tray for added storage.



Metal drawer guides and dove tail sides are standard on all of the drawers throughout the unit. The metal drawer 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. 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.

FURNITURE

Living Room/Kitchen Area

A standard feature in the kitchen area is the free-standing dinette table. This feature includes a dinette table with an inlay top. Accompaning the dinette table are four chairs. The chairs are upholstered with a coordinating fabric to match your decor. Depending on the floorplan of your unit, a combination desk/dinette table may be an option.

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 six-way electric powered bases move the chairs forward and backward, as well as up, down, forward and reverse tilt. These chairs have swivel/recline features also. In addition, these leather chairs have relaxor heat pads, a pneumatic power lumbar support system, and air ride on the driver's side. 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. An oversized passenger's seat with a power footrest is also a standard feature.

In the living room, the standard sofa on some floorplans is a leather/vinyl L-Lounge sofa or an Easy Bed sofa with 12 volt power assist and storage drawers. If you have any questions regarding the warranty on these sofas, contact the sofa manufacturer. Several furniture options are available in your unit, such as a leather/vinyl recliner and lamp stand, a push back leather/vinyl recliner with an ottoman and lamp stand, and an l-lounge leather/vinyl sofa with incliner to name a few.

Ведгоот Area

As previously stated, the bed platform lifts for added storage. The decor coordinating bedspread included as part of this unit's standard package may include a quilted bedspread with matching coverlet, sham, and accent pillows. A luxurious pillow top mattress may also be a standard feature in this unit. For best results, it is recommended that the bedspread be DRY CLEANED ONLY.

On each side of the bed you may find wardrobe closets that are lighted for your convenience. On the side walls of the wardrobe closet, cedar paneling may be added.

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CHAPTER 6 CHASSIS 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 to the chassis manufacturer.

Cruise control, tilt and telescope steering wheel may also be features included on your chassis.

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." Realignment 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.

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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 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 remote controlled power rewind for the 50 amp power 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. The slide out of this unit is supplied with 12 volt and 120 volt electrical power.

Breaker Boxes

The 120 volt and 12 volt breaker boxes are generally located in the overhead cabinet on the rear bedroom wall, but the location varies with each floorplan. 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 electrical diagrams. Please note that some circuits may not apply to certain units depending on the brand and type.

Batteries

The chassis batteries on your motorhome are installed and warranted by the chassis manufacturer. The six-6 volt coach (or house) batteries on your motorhome are installed by Newmar Corporation, but 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 tray in an outside storage 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.

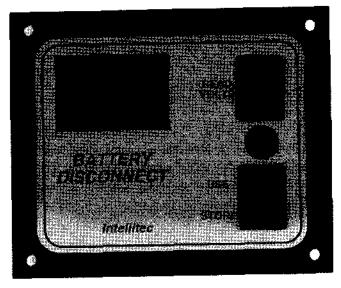
WARNING

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. Please be sure to check the battery water level on a regular basis. 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 on the passenger overhead control panel 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 LP detector. When taking the unit out of storage, press upward to re-connect the batteries. This will make the 12 volt system ready for use.

Depending on the chassis of the coach, some diesel pusher motorhomes may be equipped with a second disconnect switch strictly for the chassis batteries. If equipped, this "Master Kill Switch" may be located in the rear engine compartment. This switch disconnects all power to the coach so that it cannot be started. It is used to prevent accidental ignition when the engine is being serviced.

12 Volt Receptacles

Your unit is equipped with two 12 volt receptacles conveniently located in the dash area. 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. 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

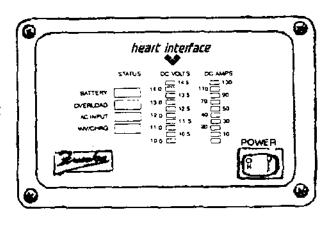
The 120 volt electrical outlets in the kitchen and bath area are ground fault circuit interrupt (GFCI) receptacles. The electrical outlets located in the slide out are wired through the kitchen GFCI. The exterior electrical outlets are wired through the bathroom GFCI. If an item plugged into a slide out or outside receptacle is not working, check for a tripped GFCI in the kitchen or bathroom. 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.

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Inverter/Converter

When 120 volt power is not available, either from the power cord or the generator, simply turn on the 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 selected 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.

ICC Flasher

On the smart wheel you will find a switch labeled "ICC Flasher." This switch 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 on.

Generator

This unit may be equipped with a generator with automatic changeover features and mounted on power activated slides for easy access. Simply pull the release knob and press the activator button until movement begins. The generator may be located in a compartment in front of the motorhome. 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 furn 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.

Automatic Start System

Your unit is equipped with an automatic start system for the generator. This switch may be located in the overhead cabinet above the driver's seat. This system will help keep the batteries in your coach charged and will also help maintain a desireable room temperature. The automatic start system will automatically start when the batteries fall below a set voltage level and recharge the batteries. This will help to prevent the batteries from getting completely drained. The system will also start automatically when the room temperature in your coach falls below a set temperature. For complete operating instructions, please refer to the manufacturer's owner's manual included in your Owner's Package.

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.

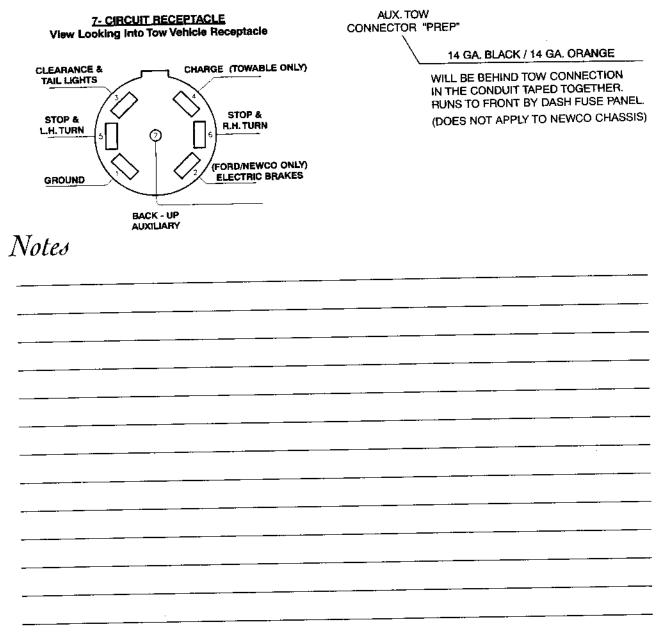
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Wiring Connector

Standard on all Newmar motorhomes is class three, 5,000 pound rating 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:

	Crosn	Charge
Left fulli bigitar		Dluo
Right Turn Signal Brown	Back Up Lights Yellow	

Below is the diagram of the tow plug. This view is looking into the tow vehicle receptacle. As stated above, this is a standard seven-pin pigtail.



CHAPTER 8

SLIDE OUT FEATURES

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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

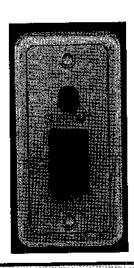
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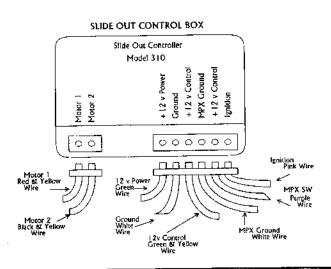
The slide out room should be inspected for alignment every six (6) months. If alignment is necessary, have the room adjusted.

- 1. The slide out room can be stopped at any time by activating the slide out switch, located on the passenger overhead control panel. 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.



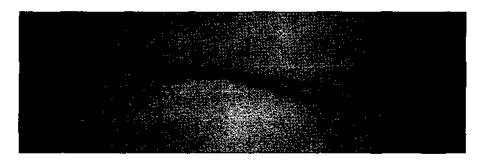


IMPORTANT

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

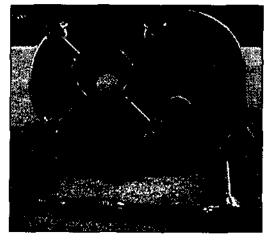
- 1. Activate the slide out switch. When fully retracted, the room will automatically stop. The indicator light will be lit while the room is traveling.
- 2. Before moving the coach, engage the lock arms by pushing the arm up into the locked position using the lock arm tool, as required.

Manual Extension e3 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 ½" drive 1½" open end wrench and a ½" drive ratchet wrench, loosen the 1½" nut. This will require approximately 1½ 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.

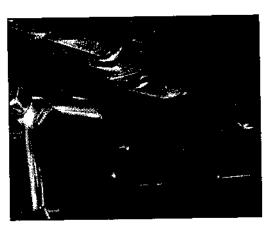


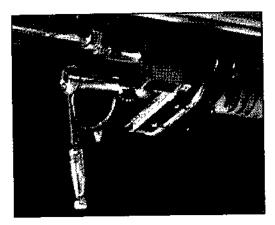
This second release is required to loosen the TRANS-TORQUE bushing from the shaft.

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 %" socket and ratchet wrench. By placing the socket on the %" 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 1½" 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.

Operating Precautions

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.

CHAPTER 9

EXTERIOR FEATURES

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EXTERIOR FEATURES

Hitch

On the rear of this unit you will find a class 3, 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 exterior sides of this unit are constructed of seamless, gel-coated fiberglass. To add to this feature, the end caps are also gel-coated fiberglass and a gel-coated filberglass molded exterior is on the slide out. 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. Please note, Newmar is NOT responsible for weathering/oxidation of gel-coated surfaces.

Fluorescent lights are located in the exterior storage compartments located on the exterior sides of your unit. The master switch for these lights can be found on the dash. These compartments provide additional space for your belongings while you are traveling. These exterior compartment doors are also equipped with power locks for added security and pull out storage trays for convenience.

Security Lights

Exterior security lights are installed on this unit. Two are located on each side of the unit for extra security. The switches for these lights is located inside the front entrance door.

Roof

The standard roof on this unit is the gel-coated fiberglass roof. The roof and radius top wrap are made from gel-coated fiberglass, complementing the sides and front and rear end caps.

Hydraulic Leveling Jacks

WARNING

Since this 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 and air dump features. 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 neutral. The park brake needs to be set, either

manually or automatically. There are two control panels that operate the hydraulic jack system. One panel is located on the left hand side of the dash. The other panel is located in the rear engine compartment.

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.

IMPORTANT

Do not interrupt power to the system until the system automatically shuts itself off. NOTE: The air dump button will work with the coach on and the leveling system off.

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. If these steps are installed, the switch to operate them may be located in an overhead cabinet above the entrance door. 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. With the entrance door open, 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.

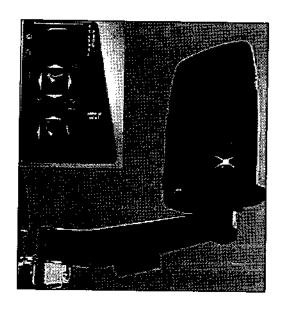
CAUTION

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.

MIRRORS

This vehicle is equipped with convex, exterior chrome remote controlled 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:

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CHAPTER 10

INTERIOR FEATURES

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INTERIOR FEATURES

Ведъргеад

All units have a decor-matching quilted bedspread with matching coverlet, sham, and accent pillows included as part of the standard package. The recommended cleaning instructions for these items are Dry Clean Only. The materials used to make these have been treated and dry cleaning will preserve this treatment.

Flooring

The floor covering in the living room and bedroom of the unit is fabrica nylon carpeting with scotchguard stain release. In the Owner's Information 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 floor covering for the kitchen, bath, and entry area is a decorative ceramic floor tile. To clean any of these floor treatments, use a mild soap with warm water and a soft cloth. Front entry floor mats and entrance step mats are also a standard feature in your unit. These mats help to protect the carpet from stains, grease, mud, and anything else that might be tracked in from outside your unit.

Ceiling

The ceiling in this unit is covered with a multi layered padded vinyl ceiling headliner with hidden air conditioning vents and mood lighting. The cleaning instructions recommended would be a soft cloth and mild detergent.

Window Treatment

The standard window treatment throughout this unit, except in the kitchen, is lined day/night pleated window 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. If drapes or curtains are installed in this unit, cleaning instructions for these items are DRY CLEAN ONLY. Water-based products are not recommended for cleaning. They may cause excessive fading or shrinking. The kitchen window is equipped with a mini-blind window shade. Power activated sun shades are also installed on the driver and passenger side windows and also a power activated windshield area privacy shade is installed.

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CHAPTER 11 PLUMBING & BATH FEATURES

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FRESH WATER SYSTEM

Kitchen Sink

The kitchen sink installed may be a double bowl sink. The unit has two sink covers to provide additional counter space when the sink is not in use. In the Owner's Information Package furnished with this unit you will find care instructions for the countertops and sink in this unit. Avoid using "S.O.S." type cleaning pads because they may scratch the surface. It is not recommended to use the countertop as a cutting surface. Knives can scratch the surface while, in turn, the countertop may dull the knives. The faucet in the kitchen may be a pull-out spray faucet that can be removed from its fitting and used as a sprayer.

Bath Sink, Shower e3 Accessories

The sink in the bathroom may also be a chrome single-handle faucet. Again, the care instructions for the countertops and sink in this unit can be found in the Owner's Information Package. The hand held shower head may include massage features. Also, depending on the floorplan of your unit, a fold down shower seat may be installed. The brass bathroom accessories may include a towel bar, a towel ring, a tissue holder, and a robe hook.

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. This unit is equipped with an interior and exterior monitor panel. The interior monitor panel is generally located above or near the entrance door. The exterior monitor panel is located in the water compartment. 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 ¼ tank increments. For example: If the tank selected is approximately ½-full, then the indicator lights E, ¼, and ½ will be lit. Located to the right hand side of the monitor panels and in the bath is a water pump switch. This is a monoplex type of 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 Information 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. Water pump switches may be located in the bathroom, above the entrance door, and in the water works compartment. 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. The water pump switch is located above the entrance door. The monoplex pump switches are two additional water pump switches. One is located in the bathroom and the other is in the exterior water compartment.
- 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.

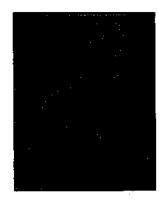
If water doesn't flow when a faucet is turned on while using the demand system, use the following trouble shooting chart:

SITUATION	SOLUTION
Pump running - no water	1. Fill tank
	2. Clear the water line to the pump
·	3. Check the fresh water fill valve position
Pump doesn't run	1. Check the pump switch
	2. Check the 12 volt fuses
	3. Check the electrical connections
	4. 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 antifreeze hose placed in a bucket of water. With the water supply valve open, turn on the water pump to fill the tank. 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 ¼ 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 4½ 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 when the fresh water tank is empty. 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.

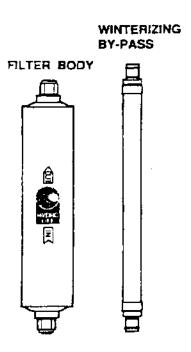
Water Heater By-Pass System

The water heater by-pass valve is located in an outside compartment near the water heater. By closing the water heater supply valve and opening the by-pass valve you can divert water away from the water heater. This is done when winterizing your unit. Using the by-pass will keep antifreeze out of the water heater when winterizing the system. Draining the water heater during winterizing is a MUST.

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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 toilet in your unit may be a china stool. The toilet 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 or raise the flush lever until the desired water level is reached. To flush the stool, push down on the lever until the water swirls. A small amount of water should remain in the bowl.

The stool should be cleaned regularly for maximum sanitation and operational efficiency. Clean the toilet bowl with a mild bathroom cleaner. DO NOT USE CHLORINE OR CAUSTIC CHEMICALS, SUCH AS LAUNDRY BLEACH OR DRAIN OPENING TYPES, AS THEY WILL DAMAGE THE SEALS IN THE TOILET AND DUMP VALVES.

Refer to the toilet manufacturer's owner's manual in your Owner's Information Package for complete instructions and a troubleshooting guide.

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

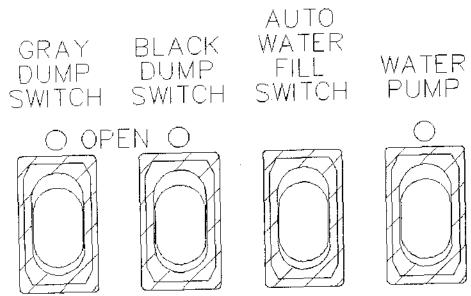
Use only approved RV odor controlling chemicals in the holding tanks. Products containing ammonia and petroleum will damage the ABS plastic holding tanks and seals.

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 electrically operated to provide a more sanitary method of emptying holding tanks. The sewer line must be securely capped during self-containment use to prevent leakage of waste material onto the ground or pavement. Do not flip the switch to the holding tank gate valve 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 ¾ 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 ¾ 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. To empty the contents of the waste water tanks, simply flip the switch that is located in the water works compartment. The tank will start to drain as soon as this switch is flipped. 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

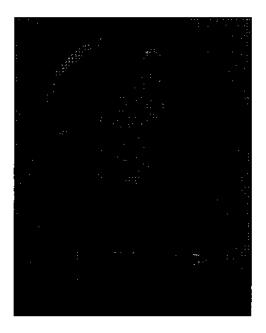
The gray tank valve needs to be in the open position when operating the optional washing machine.

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.

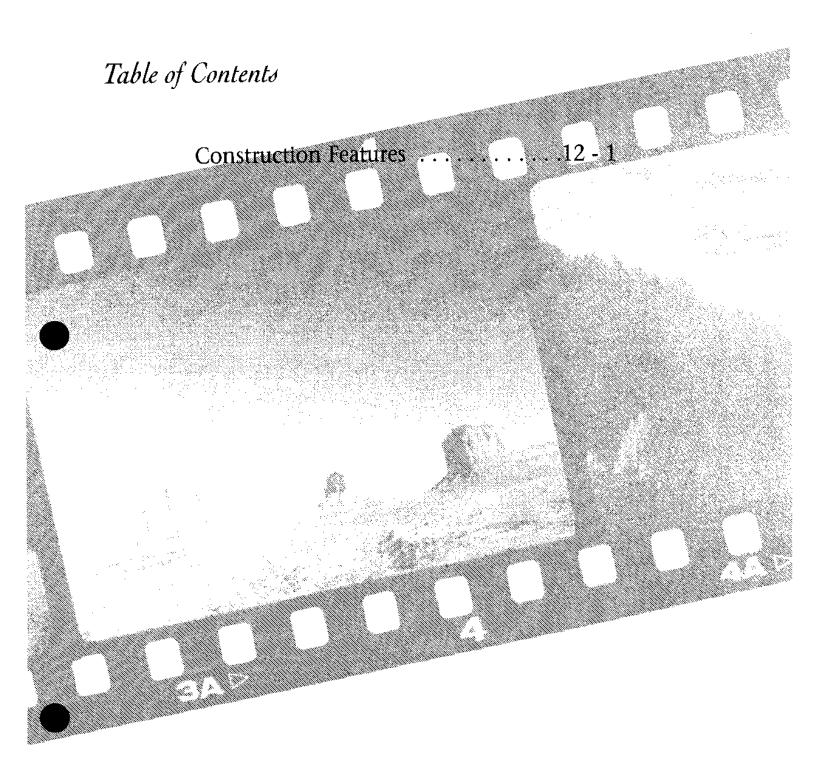


Wash Station

Located on the exterior of your coach you will find a wash station. This wash station is added for your convenience and includes hot and cold water, a soap dispenser, and a towel dispenser. Remember to winterize this system when storing your unit for the winter.

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CHAPTER 12 Construction features

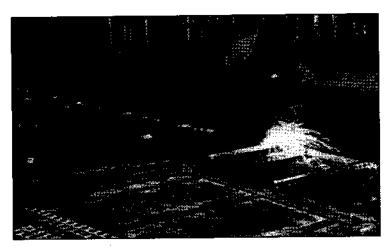


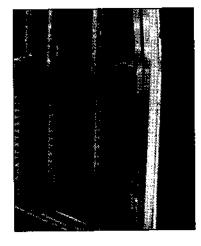
CONSTRUCTION FEATURES

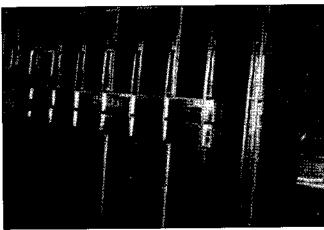
The floor decking is constructed of durable $\frac{1}{2}$ structure wood. The fiberglass insulation in the floor and sidewall is rated at R7, while the roof is rated R19.

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 air in and the cold air 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

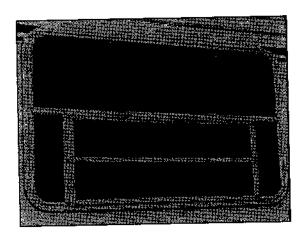
WINDOWS, AWNINGS, VENTS & DOORS

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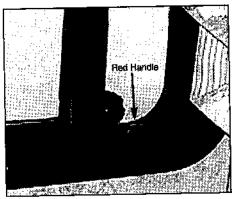
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WINDOWS

The windows installed in this unit are the double pane windows, except in the driver and passenger areas.



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.



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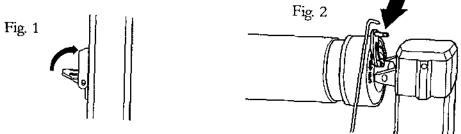
AWNINGS

Side Awning

A side awning may be 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
- 2. Lift the arm storage locks, located on each of the upper arms, to the unlocked position.
- 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.

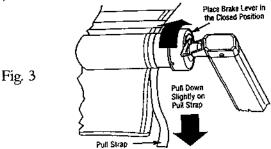
- 6. Raise the arm handles and lift the front of the awing to the desired height. While supporting the weight of the awning with one hand, lower the handles to engage the height adjustment holes.
- 7. Slide the center pull strap to one end of the awning and store.

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.

Notes			
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Window Awning

Installed on the bedroom and slide out windows may be window awnings. To operate, follow these instructions.

EXTENDING

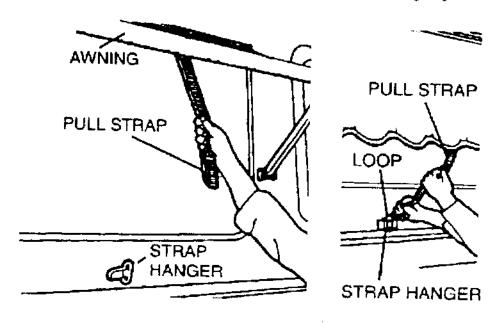
1. Grasp the loop on the pull strap and pull down to extend the awning. Then hook the loop onto the window strap hanger.

RETRACTING

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



- 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

The standard vent in the bathroom may be a 12 volt vent equipped with a rain sensor on the roof hood. Anytime the vent is open and it senses rain, it will automatically close. The vent is controlled by the 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.

Do not leave the fan in active mode while the unit is in storage or unattended for long periods of time. High winds or other unusual conditions or obstructions may prevent the vent from closing resulting in leakage, which could cause serious damage.

Doors

The front entrance door has a dead bolt lock, air powered flush stepwell cover, and lighted step for added security and visibility. The dead bolt lock is a keyless entry system. See below for operating instructions on the keyless entry system. The door can be held open with the positive lock door stop. When the door is opened completely it locks into the open position. To release the positive lock for closing the door, pull either the interior or exterior door handle. The front entrance door may also be equipped with an awning. Also installed at the front entrance door is a lighted, acrylic exterior assist handle for your convenience.

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 $\boxed{1/2}$ 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 $\boxed{7/8}$ and $\boxed{9/0}$ button at the same time.

Baggage Doors

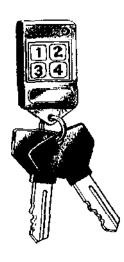
The baggage door latches on the storage compartments are equipped with power locks for owner ease. To lock or unlock the doors, press the switch on the dash or remote supplied with this unit. These doors can also be locked or unlocked by using the key supplied. The "Power-Touch" key ring you received 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. (The LP door, by RVIA Code, is not equipped with a locking latch.)

Button #1 – Press and hold this button to reel out the electric cord reel.

Button #2 – Press and hold this button to reel in the electric cord reel.

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.



To open the storage compartment doors, lift up on the handle. The doors will pull toward you slightly then move upward on spring-assisted hinges. This allows access to the complete compartment without interference. To close the doors, pull down on the door and push inward so that the door is within 1" of closing. Press and hold the power closure button. The electric motor will completely close the door automatically. Once the motor stops running, release the button; the door is closed. If, while closing the door, clothing is caught in the door jamb, releasing the button will turn the motor off. Then open the door as described above.

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 camping vehicle is made of painted fiberglass. Frequent washings and thorough cleanings are recommended to prevent damage to the vehicle finish after exposure due to damaging salts, calcium chloride, road tar, tree sap, insects, and other foreign material. 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 and can add needless weight to the vehicle. 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. Care should be taken when cleaning the exterior finish. Do not use strong soaps or detergents for washing the vehicle. Always use a soft cloth with mild soap in warm water, a commercially prepared product for automotive finishes, or your local car wash. Avoid using stiff bristle brushes that may cause scratches in the painted surface. 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

Striping & Decals

The striping and decals on your vehicle have been hand painted and require very 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. Rinse thoroughly to prevent soap residue accumulation. Use caution with high pressure wash nozzles. Test small sections of the exterior of the unit when using any type of cleaning solution.

IMPORTANT

Do not use facquer thinner on the painted exterior. Do not allow gasoline or other fuels to drip or stay on the exterior of the unit for any length of time. If this occurs, immediately flush the area with water.

Rubber Roof Care & Maintenance

Proper care and maintenance of your recreational vehicle, including your rubber roof, is important for trouble free performance. Normal maintenance is simple and easy and does not require special materials.

Keep the roof clean. Clean the roof at least four (4) times annually. For normal cleaning:

- 1. Use RC100 Dicor Synthetic Roof & Genral Purpose cleaner or a mild laundry detergent. CAUTION: Do not use general purpose cleaners or conditioners containing petroleum solvents, harsh abrasives or citric-based cleaners. You may cause irreparable damage to your roof.
- 2. Rinse the complete roof with clean water to remove any loose dirt or debris.
- 3. Using a medium bristle brush, along with your selected cleaner mixed with water, scrub the entire roof. Rinse thoroughly with clean water to avoid residue build up on the roof or sidewalls of the vehicle.
- 4. For more difficult stains, you may use cleaning materials mentioned above in a more concentrated mixture. For stubborn stains, use of a cloth dampened with household bleach. Household bleach can be used (fully concentrated) and allowed to soak in stubborn stain areas, then scrubbed with a medium bristle brush or rag. Rinse thoroughly. DO NOT pour the bleach on the roof and allow it to run down the sides of the vehicle. Concentrated bleach may damage the graphics.

WARNING

Use caution when working on top of your vehicle. The wet roof membrane may be extremely slippery.

INTERIOR CARE

WARNING

Urea-formaldehyde is used in the production of particle board, hardwood piywood, 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 fine 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. Therefore, cleaning instructions for these items are DRY CLEAN ONLY. **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.

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 uphoistery 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.

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 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. Sweep or vacuum the floor often and wipe up spills as soon as possible. Clean with a hardwood floor cleaner. Do not use wax, dish washing detergent, abrasive chemicals or oil cleaners on the wood floor. Silicone or solvent based polishes (for example, waxes, oil soap, vinegar, ammonia, Pledge, Fantastik, Formula 409, etc.) will make the floor harder to clean because of residual deposits.

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 ammoniabased 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.

Detector

The CO detector is self-contained and DOES 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 detector, 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.

Monthly

· Check battery water level.

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 and buff all gel-coat surfaces on the vehicle as described previously in this chapter.

Winterizing

The Aqua-Hot's domestic hot water loop must be completely drained of water anytime the heater is stored where freezing temperatures may be experienced. Follow the instructions below when draining the domestic water system.

CAUTION

Not winterizing the Aqua-Hot when freezing temperatures are present will result in damage to the Aqua-Hot's domestic hot water loop.

1. Shut off the water pump and make sure the water supply valves are closed.

- 2. To drain the fresh water tank, open the drain valves.
- 3. 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.

CAUTION

If the coach is equipped with appliances that use domestic water (i.e. ice makers, water purifiers, etc.) follow the manufacturer's recommendation for winterization.

- 4. Disconnect the demand water pump suction line. In the water compartment you will find an antifreeze hose. This hose is used only to antifreeze the fresh water system. Place the end of the hose into an adequate supply of FDA-approved RV antifreeze. Use only non-toxic antifreeze that has been approved for use in drinking/potable water systems. Approximately three (3) gallons will be required.
- 5. Close the low point drains to prevent the antifreeze from draining through the lines onto the ground. Close the water supply valve that flows from the pump to the tank.
- 6. 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. 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.
- 8. Close the antifreeze valve when the winterizing process is complete. Remove the winterization hose from the antifreeze supply. Open the low point drains.
- 9. Open the water supply valve that flows from the pump to the tank to help prevent freezing on that water line.
- 10. 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 or fill the fresh water tank. 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 fresh water tank supply valve from the pump and the ice maker valve. Reinstall the water filter. Be sure the fresh water tank drain valves are closed to allow the tank to fill.

Cold Weather Use

Although great care has been taken to build a well-insulated unit, recreational vehicles are not intended for extended use in subfreezing weather without special precautions.

When the temperature drops below freezing, the furnace must be run to keep the unit warm. Continued use in cold weather will require the unit to be winterized.

CHAPTER 15

CHARTS & DIAGRAMS

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	Maintenance Record	.15 -	2
	Fuel & Mileage Log	.15 -	5
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	Typical 110V Wiring Diagram	.15 -	15
	Typical 12V Wiring Diagram	.15 -	17
	Typical Inverter Wiring Diagram	.15 -	19
	TV/VCR Wiring Diagram	.15 -	21
	Video Cable w/ Surround Sound	.15	22
	Speaker Switch System	.15	23
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	Newmar Dash Fuse Panel	.15	. 39

IMPORTANT INFORMATION ABOUT YOUR LONDON AIRE LUXURY COACH

Coach:	Year	2002	Model	Serial # 5	
	App	liance	Brand	Mođel	Serial
Refrigera	itor			 ———	
Water H	eater		·····		
Range .					
Converte	r				
Washer					
Dryer					
Microwa	ve				
Televisio	n, front	t			
Radio .			,		
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MAINTENANCE RECORD

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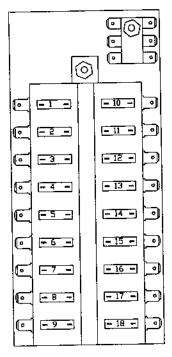
FUEL, OIL & MPG RECORD

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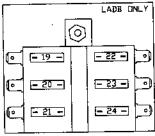
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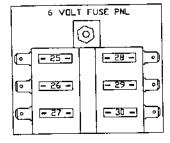




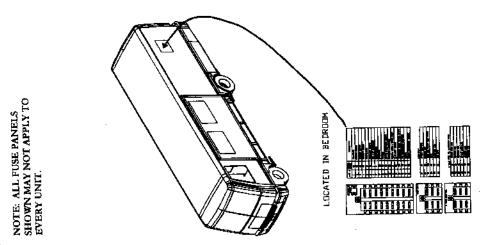
FUSE #	RATING (AMPS)	DESCRIPTION
1	20	TV/STERED
2	20	KITCHEN LIGHTS
3	20	BEDROOM LIGHTS
4	50	SECURITY LIGHTS
5	20	WRAP LIGHTS
6	50	SLIDE-DUT LIGHTS
7	1	C.O. / LP DETECTORS
В	5	REFRIGERATOR
9	7.5	SATELLITE
10	20	FURNACE
11	50	LIVING RODM/ENTRY LIGHTS
12	20	BATHROOM LIGHTS/FAN
13	10	MUNITUR PANEL/ WATER PUMP
14	20	SLIDE-OUT MOTORS
15	7.5	FANTASTIC VENT/ WATER HEATER
16	7.5	AIR CONDITIONER CONTROLS
17	20	AVNING
18	7.5	ENERGY MANAGEMENT SYSTEM



		LADB ONLY
19	20	LIVING ROOM LTS
50	20	KITCHEN LTS
21	7.5	AUTO GEN (EARLY 2002 DNLY)
22	50	SOFA
23	20	SLIDE-DUT LTS
24	20	BED LIFT



		FUSE PNE CEMBERADE BRETS
25	20	LIVING ROOM LTS
26	20	KITCHEN LTS
27	20	BEDROOM LTS
28	20	LIVING ROOM LTS
29	20	KITCHEN LTS
3D	20	BEDROOM LTS



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LOAD		7			STATE	WATER HEATER			#
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LOAD		0		A/C COMPRESSOR	CONTROL	BOARD		_	
BREAKER #		_ •					0 2	22	CT2
COAD		9					0 7	23 (CT2
BREAKER #		0 /		LOAD 3:	REQUIRED	FUSES	0	24	1 5
LOAD		0		A/C COMPRESSOR	HOT 1, 2:	1A 250V	0	22	ដី
BREAKER #		0		LOAD 4:	BATT POS:	1A 32V	0	26 E	BATT GND
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BREAKER #		11 0		LOAD 5:	Phone Jack:	Phone Jack: Manager Remote	Ĺ	782	LM REM
LOAD		12 0		INVERTER/	Phone Jack:	Inverter Remote	7	<u>0</u>	29 INV REM
BREAKER #		13	-	LOAD 6A:	Phone Jack:	Inverter		8	INV
LOAD		- 4		WASHER/DRYER	CIRCUIT	BOARD FUSES:	} {		
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WIRING COLOR SCHEME

16 GAUGE

Grounds	White
Back-up Lights	Yellow
Ignition to Power Step	
Clearance & Running Lights	Green
Right Turn Lights	Brown
Left Turn Lights	
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)	
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*
	Gray* Yellow*
	White*
•	* - multiple applications for this color

WIRING COLOR SCHEME (CONT.)

12 GAUGE

GroundsWhite
Living Room & Entryway Lights (hot to switch)Red
Living Room & Entryway Lights (switched)
Bedroom Lights (hot to switch)Orange
Bedroom Lights (switched)
Bathroom Lights (hot to switch)Brown
Bathroom Lights (switched)
Kitchen Lights (hot to switch)
Kitchen Lights (switched)
Wrap & Storage Compartment LightsBlack
TV and Stereo
FurnacesGreen w/Black
3 Way Switches (commons)
Electric Brakes (tandem axle)
Fantastic Vent and Water HeaterBrown w/Black
Monitor Panel
Refrigerator Controls
Security Lights (hot to switch)
Security Lights (switched)
Slide Out Module (hot feed)
Slide Out Motor & Voice Module
Red w/Yellow
Slide out Lights
Water PumpYellow w/Black
Power Step Switch

WIRING COLOR SCHEME (CONT.)

10 GAUGE

GroundsWhite
Living Room Entry Lights (hot feed) Red
Bedroom Lights (hot feed) Orange
Kitchen Lights (hot feed)
Bathroom Lights (hot feed)
FreezerPurple w/Yellow
Power Step (hot feed)
Power Jacks
8 GAUGE
Grounds
BatteryRed
Converter

4 GAUGE

Solar PrepGreen

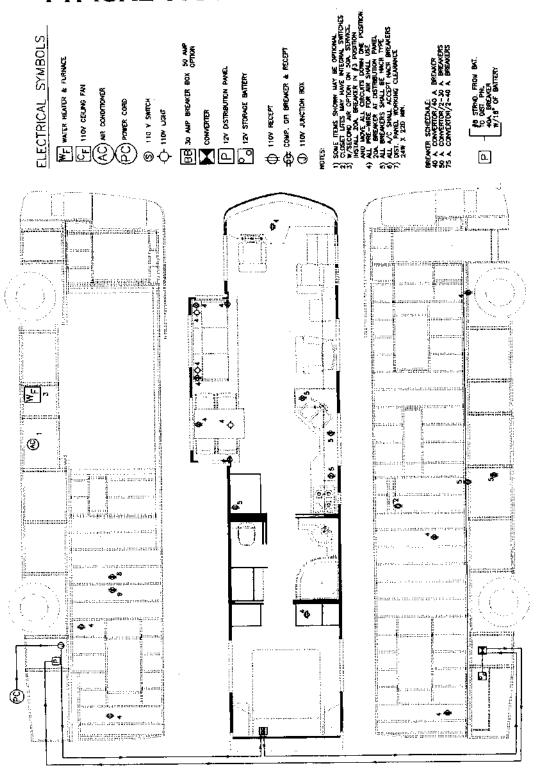
16 GAUGE

MONITOR PANEL TANK HARNESS

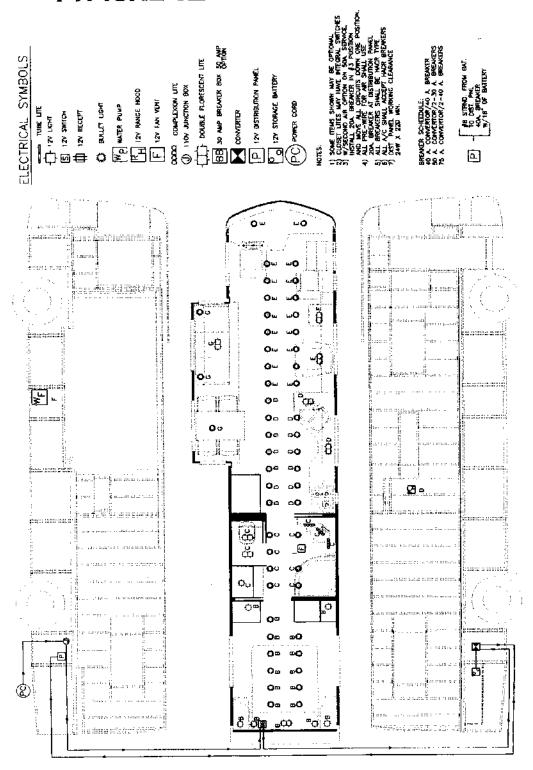
Fresh Water Tank	White* Grey w/Black (replaces Red tank lead) * Black w/Yellow (replaces Blue tank lead)
Grey Water Tank	White* Green w/White (replaces Red tank lead) * Blue w/Black (replaces Blue tank lead) *
Black Water Tank	White* Red w/White (replaces Red tank lead) * Blue w/White (replaces Blue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

* - multiple applications for this color

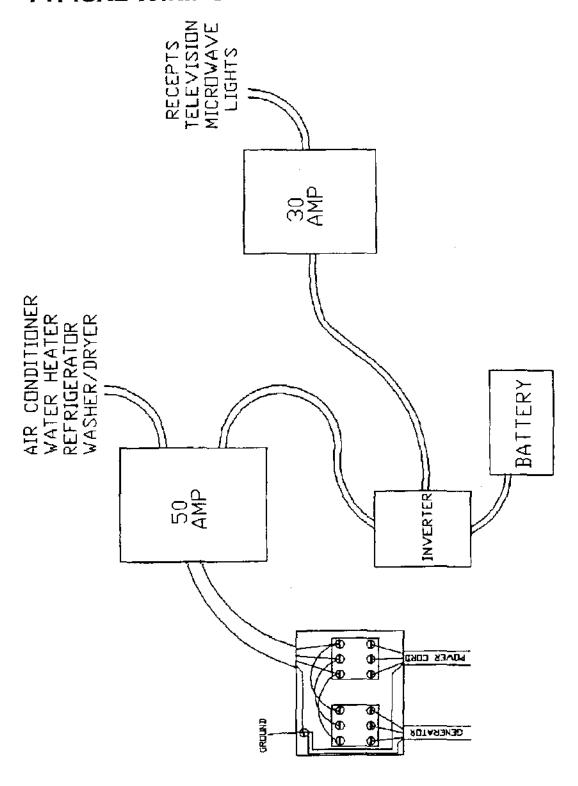
TYPICAL 110V WIRING DIAGRAM



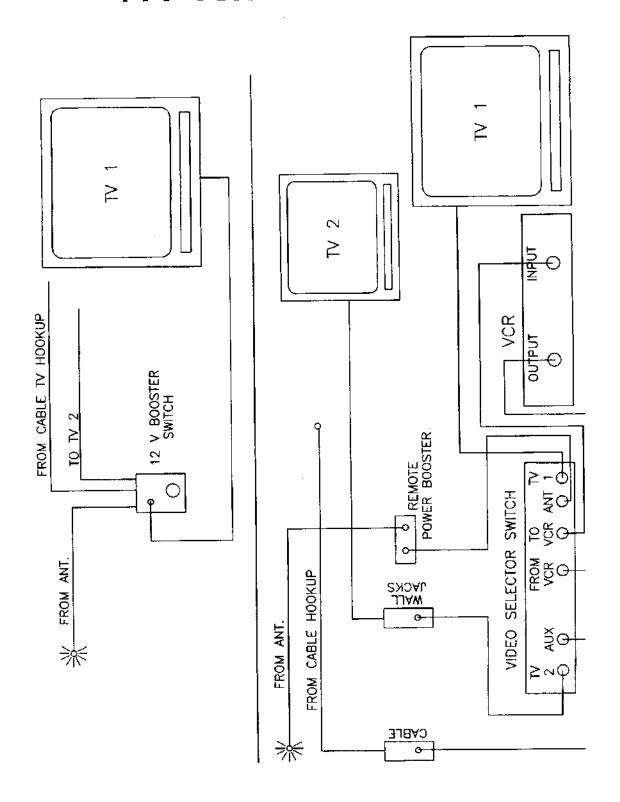
TYPICAL 12V WIRING DIAGRAM



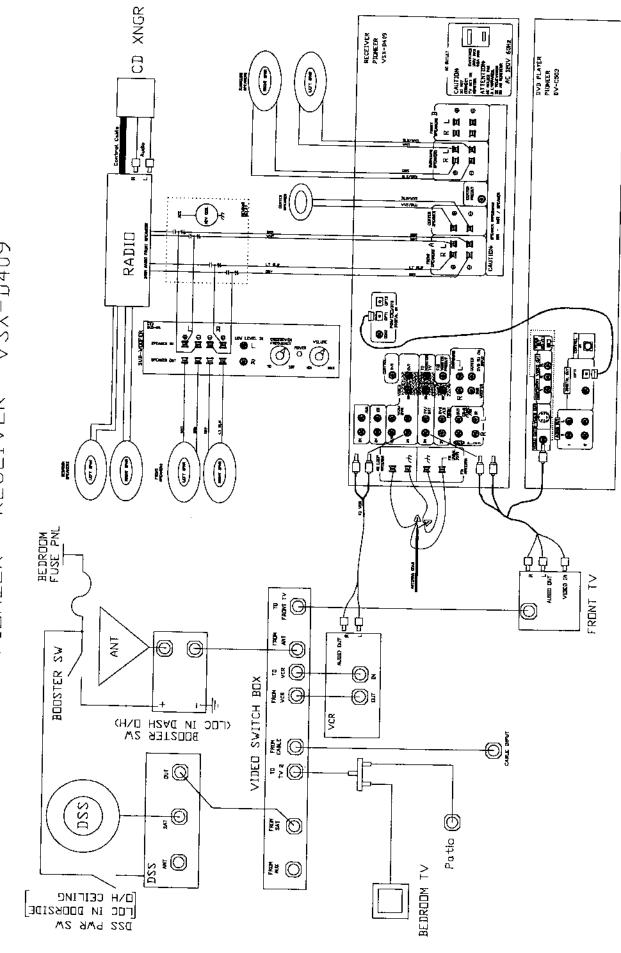
TYPICAL WIRING DIAGRAM FOR INVERTERS

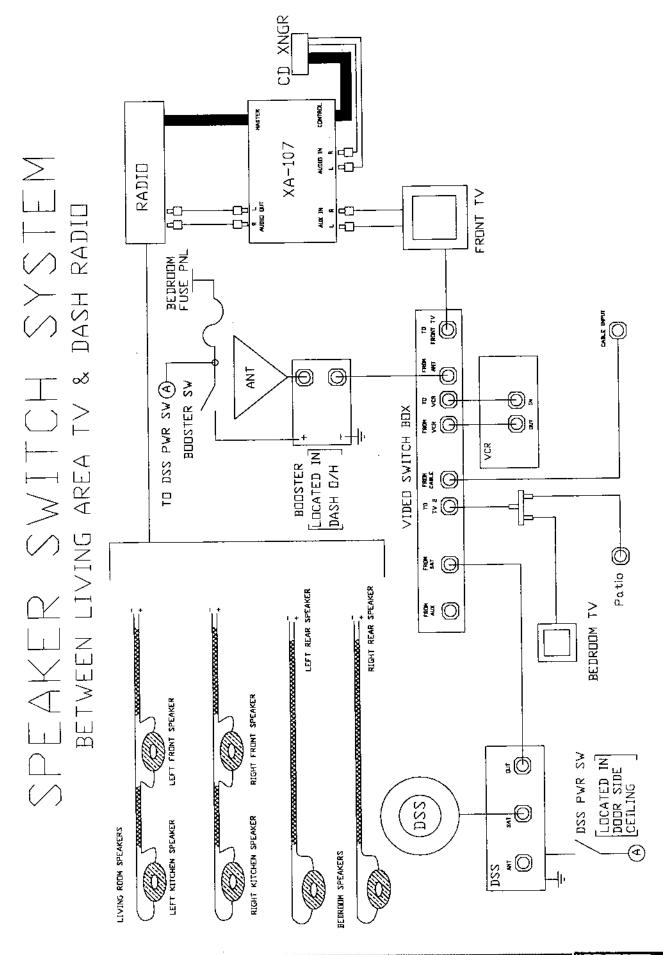


TV / VCR WIRING DIAGRAM

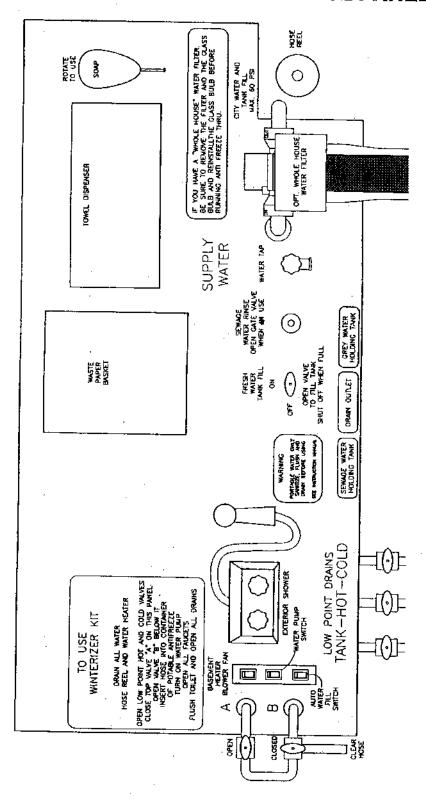


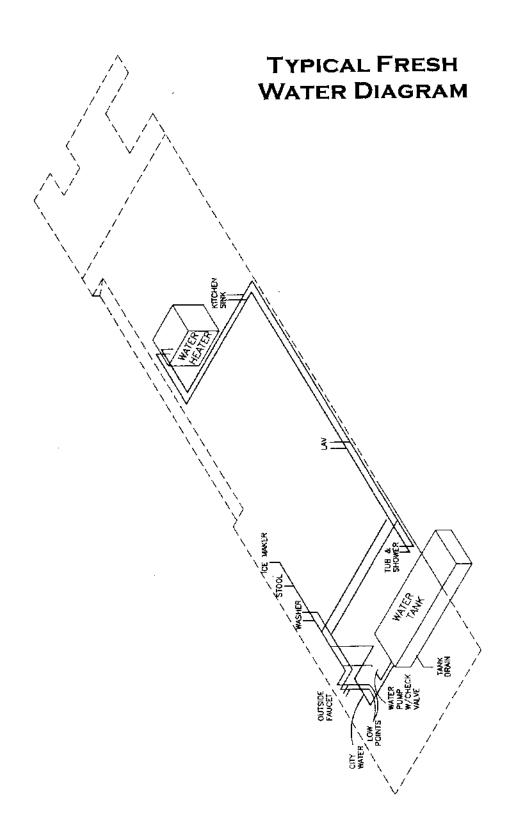
VIDEO CABLE WITH SURROUND SOUND VSX-D409 RECEIVER PIUNEER

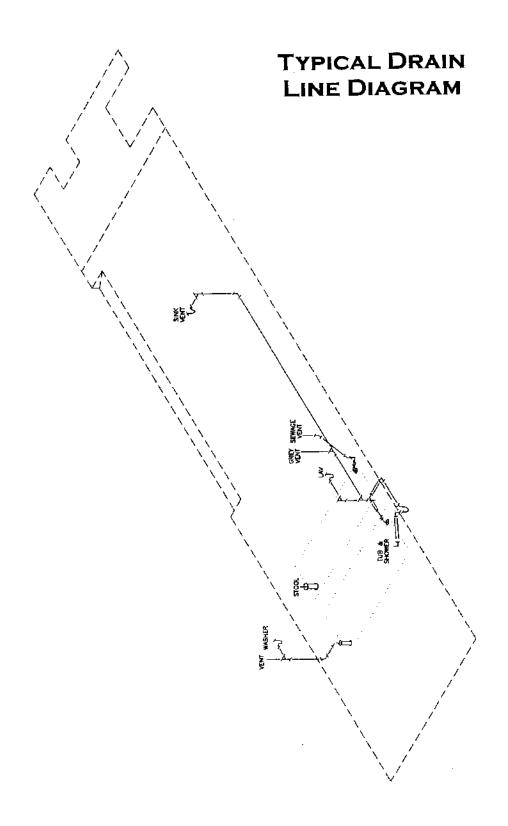


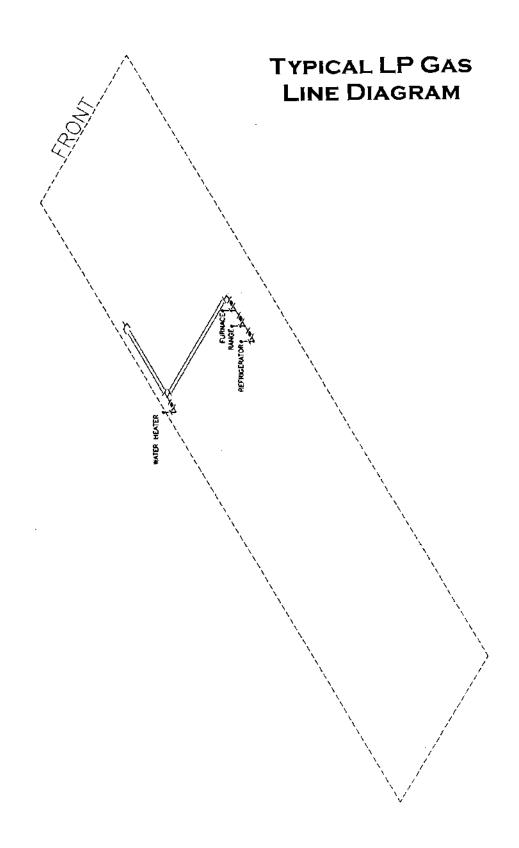


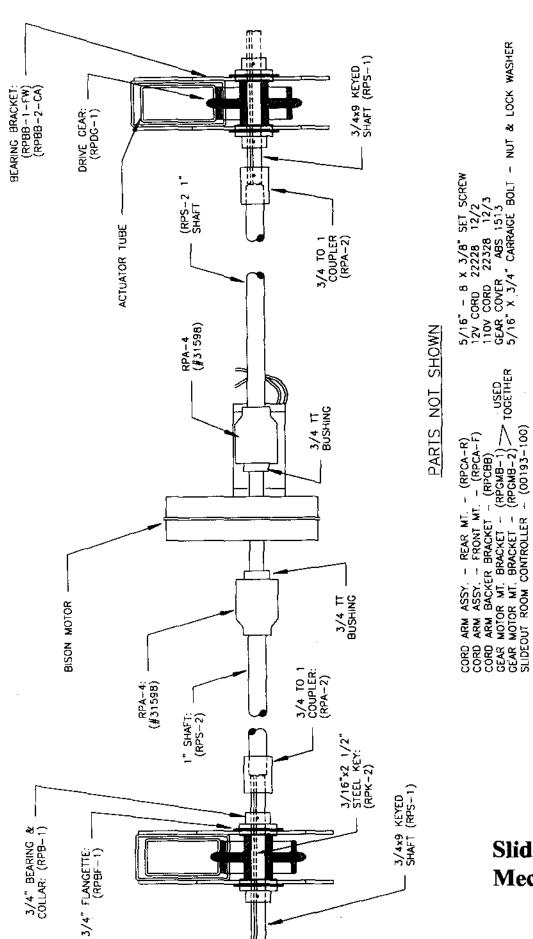
WATER WORKS SUPPLY CONTROL PANEL











Slide Out Mechanism

2002 LONDON AIRE LUXURY COACH

DESCRIPTION	ITEM #
Air Horn	51365
Antenna, CB	34783
Antenna, Cellular Phone	44465
Antenna, Radio	15654
Antenna, TV	28331
A/C	51310
Bumper, Front, Center	28517
Bumper, Rear, Center	28351
Door, Entrance	41277
Faucet, Bath	42873
Faucet, Kitchen	42868
Faucet, Shower	42870
Grab Handle, Door	44449
Hood	28343
Light, Brake	30962
Light, Clearance, Amber	18684
Light, Clearance, Red	20619
Light, Clearance, Side(Turn)	44406

DESCRIPTION	ITEM#
Light, Docking	13851
Light, Driving	28366
Light, Head, Left Hand	28559
Light, Head, Right Hand	28325
Light, Scare	10674
Light, Spot	34919
Light, Tail, Left Hand	41860
Light, Tail, Right Hand	41861
Mirror, Rear View	41235
Recept, 120 Volt	10551
Recept, GFCI	10553
Step, Kwikee	37710
Switch, 120 Volt	10543
T-Stat, FanTastic Vent	01513
Windshield Gasket	28316
Windshield, Left Hand	25969
Windshield, Right Hand	25970



CUSTOMER INFORMATION UPDATE FORM

Newmar Corporation strives to keep the most accurate and current customer information in its files.

If you bought this unit new, we have your information from the warranty registration form on file. However, if you purchased this unit as used then we ask that you complete the following information and mail it or fax it to us so that we can be sure that our records are updated.

Upon receipt of this form, we will send you a warranty registration card. This card is to be presented when you are having warranty work done on your unit at an authorized Newmar service center. Please note that the date of purchase on the card will show the original date the vehicle was first purchased and is the date applicable warranties originated.

If you have any questions, please contact a Newmar representative.

DATE	
COACH #	
CUSTOMER FULL NAME	
CUSTOMER COMPLETE ADDRESS	
PURCHASED FROM	
ADDRESS	
	

NEWMAR CORPORATION ATTN: SERVICE DEPARTMENT

P.O. BOX 30

NAPPANEE, IN 46550 FAX: (219) 773-2007

