

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 two-year 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 components refer to the individual manufacturer's operating instructions contained in the Owner's Information Package.

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

Newmar Corporation has compiled the most current information available at the time of publication. If the components in your unit vary significantly from what is described within this manual, then consult the instructions provided by the component manufacturer found in the Owner's 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 check list to be used during retail delivery. Check each item on the list and make sure the dealer does the same. Do not sign this checklist until you have done this.
 NOTE: The sales literature versus actual specifics to the vehicle's measurements, weights, or quantities may vary.
- c. Ask questions about anything that you do not understand concerning your recreational vehicle.
- d. When taking delivery, set an appointment for adjustments. This appointment should be approximately two (2) weeks after you accept delivery.
- e. Responsible Use. Your vehicle is designed to be used for recreational or temporary living purposes. It is not designed to be used as a full-time residence or for commercial use. Commercial use means using as a business asset such as a mobile office or using the vehicle for lease/rental purposes.

Major Equipment Manufacturers

A & E Awnings	.800-544-4881
Atlanta DTH, Inc.	.770-451-9777
Atwood Mobile Products	.815-877-5700
A.S.A. Inc.	
Carefree of Colorado	.800-621-2617
Collins & Company	
Dexter Axle	.574-295-1900
Dometic, Duo Therm	.800-544-4881
Elkhart Tool & Die	
Evans Tempcon	
FanTastic Vent Corp	
Flexsteel Industries	.563-556-7730
Gekotek Electronics (Monitor Panel)	
Generac Generators	
Goodyear Tires	
HWH Corporation	
Hickory Springs Mfg	
Hidden Hitch	.877-869-6787
IOTA	.877-682-4682
Interstate Batteries - 12 Volt	.800-872-4100
Interstate Batteries - 6 Volt	
KVH Industries	
Kwikee Products	
Magic Chef	
Midwest Sales & Service	.574-287-3365
Mito	
Mor-Ryde, Inc	
Nagy Fleet Net, Inc.	.574-262-4479
Nagy Fleet Net, Inc	.800-543-1219
Onan Generators	.800-888-6626
Pioneer	.800-777-4856
PowerTech Generators	.800-760-0027
Putnam Hitch	.517-369-2165
Quest Corp	.800-877-0521
RFD Components	.574-295-3939
Scope Seating	.574-295-6016
SeaLand Technology	.800-321-9889
Sears	.800-359-2000
Sony	.800-222-7669
Splendide Washer/Dryer	.800-736-4127
Suburban Mfg	.800-659-2138
Thetford Toilet	
U-Line Ice Maker	
Villa International	
Vehicle Systems	.800-685-4298
Ventline (Range Hood)	.574-848-4491
Winegard Antenna Systems	
Xantrex	.800-446-6180

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.

Warranty Service

Warranty service required needs to be completed during the term of the warranty. Service work performed after the expiration of the Newmar two (2) year 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 work, schedule service work, or 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 Hot Line 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

Newmar has enclosed an Information Sheet for your convenience. This sheet contains important information about your coach. The sheet can be found in the black literature bag provided with our unit. Listed on this sheet is the six digit Newmar Serial number. This number is needed whenever making an appointment for service or ordering parts through your Newmar Dealer or Service Center. Also listed is the Vehicle Identification Number (VIN). The VIN is the legal identification of the completed vehicle and is used by the state for vehicle registration. Both of these numbers are also listed on the Customer Care card Newmar issues upon receipt of registration.

Below is a sample of the Information Sheet.

- 1. The Newmar Serial Number
- 2. Vehicle Identification Number (VIN)
- 3. Year/Brand/Type/Floorplan

1-4

4. Manufacturer, Model and Serial Number of factory-installed equipment

WE HAVE EN	ICLOSED A SERI	AL NUMBER	TY NEWMAR PRODUCT! FOR YOUR CONVIENCE, LIST OF IMPORTANT EQUIPMENT INSTALLED IN UMBER FOR YOUR UNIT IS XXXXXX.
MINI# XXXXX	XXXXXXXXXXX	<u>0500</u>	* XXX-XXX MODDCOLCS
	CLIMATE SYSTEM	SEPSAL R	ENERGY MANAGEMENT SYSTEM
FRONT A/C	595:5 62:	AKKKKK.	INVERTER
REAR A/C	£95:6-G3:	XXXXXX	CONVERTER
DASH A/C			GENERATOR
FRONT FURN	3F20	X/XXXXXXXX	
REAR FURN			AUDIO/VIDEO/NAVIGATION
AUX HEATER			FRINTTV
			REAR TV
	APPLIANCES		TV#3
WASHEP.	1		FRONT RADIO
DRYER			REAR RADIO
PANCE	1		EN OIGAN
MICROWAVE	R1850	XXXXX	VCR
CE RADIO			<u> </u>
MONITOR			VCR #2
ICE MAKER	1		CO FLAYER
REFRIGERATOR	NOR1062	*XXXXXXXX	SURROUND
FREEZER			DVD
WATER HEATER	SWIGDDE	4000 FEERNAN	CERETS GVG
			SATELLITE
Ļ	EVELING SYSTEM		NAVIGATION
JACK PUMP			
JACK I,F			AWNING
JACK RF			AWNING
FLI X 1.41	I		AWNING HOW
JACK RR	- i		<u> </u>

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

6550 CR 490 HANCEVILLE AL 35077 (256) 775-8030 Fax (256) 775-8085

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 86426 (928) 758-8800 Fax (928) 758-8877

ROBERT CRIST RV

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

STAR VALLEY RV

255248 E. HWY. 260 PAYSON AZ 85541 (928) 468-2363 Fax (928) 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 (479) 968-7706 Fax (479) 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) 513-0497

DAVE ALTMANS RV

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

HAPPY DAZE RV

1199 EL CAMINO AVE. SACRAMENTO CA 95815 (916) 920-8255 Fax (916) 920-5503

MANTECA TRAILER & CAMPER

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

NIEL'S MOTOR HOMES

8646 SEPULVEDA BLVD. NORTH HILLS CA 91343 (818) 891-0786 Fax (818) 895-1189

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) 242-6882

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) 365-9297

CONNECTICUT

DAVE'S RV CENTER

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

DELAWARE

PARKVIEW RV CENTER

5511 DUPONT PARKWAY SMYRNA DE 19977 (302) 653-6619 Fax (302) 653-6631

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 (239) 693-8200 Fax (239) 693-9702 www.northtrailrv.com

TRAVEL EASY SALES & SERVICE

4299 HWY. 441 SOUTH OKEECHOBEE FL 34974 (863) 467-0400 Fax (863) 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

IDAHO

BODILY RV INC.

4409 CHINDEN BLVD. GARDEN CITY ID 83714 (208) 376-7029 Fax (208) 376-7204

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

S & S RV'S INC.

I-57 & ROUTE 185 FARINA IL 62838 (618) 245-3533 Fax (618) 245-6185

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 (574) 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 47921 (765) 869-5009 Fax (765) 869-5009

HART CITY RV SERVICE

2300 S. NAPPANEE STREET ELKHART IN 46517 (574) 295-5793 Fax (574) 295-6190

INDY RV CENTER

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

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 (563) 285-7878 Fax (563) 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 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

RECREATION USA

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

DIXIE MOTORS INC.

321 N. MORRISON BLVD. HAMMOND LA 70403 (225) 272-1111 Fax (225) 272-0942

MAHONEY'S CAMP-R-LAND

1800 CYPRESS STREET WEST MONROE LA 71291 (318) 388-2147 Fax (318) 388-2303

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 (586) 954-3600 Fax (586) 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 (989) 667-9840 Fax (989) 667-9843

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

7834 S. DIVISION AVE. GRAND RAPIDS MI 49548-2110 (616) 281-3010 Fax (616) 281-3449

RANCH RV SALES INC.

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

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-55 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

BILL THOMAS CAMPER SALES

101 THOMAS RV WAY WENTZVILLE MO 63385 (636) 327-5900 Fax (636) 327-6542

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

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 INC.

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

ROCKY MOUNTAIN RV & MARINE

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

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ALL AMERICAN RV/BARRETT

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ALPIN HAUS SKI SHOP INC.

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

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46293 BELMONT CENTERVILLE ROAD BELMONT OH 43718 (740) 686-2999 Fax (740) 686-2788

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DAVE'S CLAREMORE RV

24655 SOUTH HWY. 66 CLAREMORE OK 74017 (918) 341-0114 Fax (918) 341-8936

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13111 N. BROADWAY EXT. EDMOND OK 73083-6250 (405) 936-9300 Fax (405) 936-9323

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63195 JAMISON STREET BEND OR 97708 (541) 382-5009 Fax (541) 382-8510

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938 CHEVY WAY MEDFORD OR 97504 (541) 772-1938 Fax (541) 779-1460

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ROUTE 239

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16465 KATY FREEWAY HOUSTON, TX 77094 (281) 829-1560 Fax (281) 829-9562

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BLAINE JENSEN & SONS RV CTRS.

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KAYSVILLE UT 84037 (801) 544-4298 Fax (801) 544-0513

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WESTERN MOTOR COACH

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DOUGLAS SPORTING GOODS CO.

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1200 E. SECOND ST. GILLETTE WY 82717 (307) 686-1435 Fax (307) 682-1435 **JOLLEY ROGERS RV**

6102 E. HWY. 30 CHEYENNE WY 82001 (307) 634-8457 Fax (307) 432-9796

ALBERTA

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

VELLNER LEISURE PRODUCTS

1890 49 AVENUE

RED DEER AB T4R 2N7 (403) 343-1464 Fax (403) 340-8135

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MIDTOWN RV LTD.

310 INDUSTRIAL AVE, WEST PENTICTON BC V2A 9B3 (250) 492-5705 Fax (250) 492-0430

TRAVELAND RV SUPERCENTER

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

TRIANGLE RV CENTRE LTD.

10299 MC DONALD PARK ROAD SIDNEY BC V8L 5X7 (250) 656-1122 Fax (250) 656-2161

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WALT'S TRAILER SALES LTD.

5195 PORTAGE AVE. HEADINGLY MB R4H 1E1 (204) 837-8388 Fax (204) 831-8674

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RV WAREHOUSE

65 REIVE BLVD. COOKSTOWN ON LOL 1LO (705) 458-4774 Fax (705) 458-4446

WILLIAM PATTERSON RV SALES

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1950 DES LAURENTIDES BLVD. VIMONT LAVAL PQ H7M 2Y2 (450) 663-7941 Fax (450) 663-2213

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D J'S RV CENTRE LTD.

THATCHER DRIVE EAST & #1 HWY. MOOSE JAW SK S6H 4N9 (306) 694-6048 Fax (306) 694-1221

2/03

CHAPTER 2

TOWING & SAFETY PRECAUTIONS

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SAFETY PRECAUTIONS

WARNING

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

Read and understand all of the instructions and precautions in this owner's guide before towing your new fifth wheel. Listed below are some safety precautions that must be adhered to while your vehicle 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.

- The fire extinguisher should be inspected monthly for proper charge and operating condition. The smoke alarm should also be tested on a regular basis. In addition to the recommended inspection, these should also be checked prior to a vacation or extended trip.
- Any part of this vehicle, including the sleeping facilities, must not be used while the vehicle is in motion. It is not safe to ride in a towed vehicle and in most states it is illegal.
- Become familiar with the operation of the escape window, but use this window strictly as an emergency exit.

Towing

- While driving on slippery surfaces, use care when accelerating or decelerating. Skidding and loss of vehicle control may be the result of abrupt changes in speed.
- Driving through water deep enough to wet the brakes may affect the stopping distance or cause the vehicle to pull to one side. If you have driven through deep water, check the brake operation in a safe area to be sure they have not been affected. Never operate a vehicle if a difference in braking efficiency is noticeable.
- Extreme terrain and adverse weather may affect the handling and/or performance of your vehicle.

LP Gas

WARNING

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

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

LP GAS SYSTEM

General Information

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

WARNING

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

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

The LP gas system components in your unit have been approved for use in camping vehicles by a nationally recognized testing laboratory. LP gas is a clean-burning dependable fuel when properly handled. The LP gas tank(s) mounted on your unit contain liquid petroleum gas under high pressure. The liquid gas vaporizes as the fuel is used and passes through the tank valve to a regulator that automatically reduces the pressure. The low-pressure gas is then distributed to the appliances through the pipe manifold system. Appliance lighting problems are commonly caused by an improperly adjusted gas regulator. Never attempt to reset the

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

WARNING

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

LP Regulator

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

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

LP Distribution Lines

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

Precautions & Recommendations

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

WARNING

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

FIRE SAFETY

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

Fire Extinguisher

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

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

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

Smoke Detector

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

Emergency Exit Window

In the bedroom or slide out of the unit, there may be 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 handle and the red "EXIT" label. To open the egress window, lift the handle and push outward on the window. The window can be closed by pulling the window shut and lowering the handle in the down or locked position.

WEIGHT INFORMATION

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

TOWABLE WEIGHT INFORMATION

Newmar Serial Number XXXXXX

VIN#

GVWR (Gross Vehicle Weight Rating) is the maximum permissible weight of this trailer when fully loaded. It includes all weight at the trailer axle(s) and tongue or pin.

UVW (Unloaded Vehicle Weight) is the weight of this trailer as built at the factory. It also include all weight at the trailer axle(s) and tongue or pin. If applicable, it also includes full generator fluids, including fuel, engine oil and coolants.

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.

CARGO CARRYING CAPACITY (CCC) COMPUTATION

pounds (kilograms)

XXXX (XXX)

*Dealer installed equipment will reduce CCC

CCC for this trailer*.....

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

Weighing the Unit

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

- GAWR: Gross Axle Weight Rating 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 6,000 pounds and the tires are rated at 2,540 pounds each, the maximum GAWR would be 5,080 pounds.
- GVWR: Gross Vehicle Weight Rating is the maximum permissible weight of this trailer when fully loaded. It includes all weight at the trailer axle(s) and tongue or pin. 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 this trailer as built at the factory. It also includes all weight at the trailer axle(s) and tongue or pin. If applicable, it also includes full generator fluids, including 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.
- GVW: Gross Vehicle Weight is the weight of the unit with all items and supplies that are loaded into the unit at any point in time.

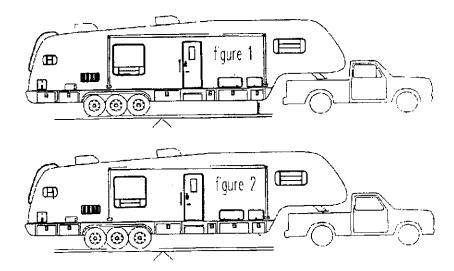
To assure the accuracy of your weights be sure the unit is always level during weighing.

The unit has been built to comply with the component suppliers recommended limits and gives 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.

Votes			
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Fifth Wheels



- 1. Pull the unit onto the scales shown in Fig. 1. This is the total weight of the unit. To do this, put the front jacks down far enough to take all of the weight off of the tow vehicle and onto the scales. Make sure that only the trailer is on the scales. Record the weight. This is the GVW and should not exceed the GVWR supplied by Newmar for the unit.
- 2. Hook up to the unit and be sure, again, that there is no part of the tow vehicle on the scales as shown in Fig 2. Weigh the unit with only the trailer tires on the scales. Record the weight. This is the total weight on the axles. When this amount is subtracted from the GVW (first reading), the difference is the hitch weight. To achieve the approximate weight on each axle, divide the weight from Fig. 2 by the number of axles. This amount should not exceed the GAWR of the unit. For example 9,360 pounds with 2 axles is 4,680 pounds per axle or approximately 2,340 pounds per tire.

Notes			
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Hitching

IMPORTANT:

Your trailer is equipped with electric trailer brakes. Make sure the proper brake controls are installed and in working order before traveling.

IMPORTANT:

Your fifth wheel is equipped with electrically activated trailer brakes. Make sure the proper brake controls are installed and in working order before traveling. Be sure that there is a positive and negative line from the battery of the tow vehicle to the seven way plug on the fifth wheel. This will assure that there is adequate electrical current to the braking system at all times.

Fifth Wheel

Hooking the fifth wheel will become quite simple after a little practice. Follow the steps listed below.

- 1. Adjust the fifth wheel jacks until the trailer is at the height level for hooking to the tow vehicle.
- 2. Place wheel chocks behind the wheels of the coach.
- 3. Release the fifth wheel lock handle.
- 4. Align the tow vehicle so the fifth wheel will accept the kingpin.
- 5. Back the tow vehicle slowly into the fifth wheel until the kingpin engages in the fifth wheel lock, automatically locking.
- 6. Verify that the lock is closed.
- 7. Connect the electrical pigtail between the fifth wheel and the tow vehicle.
- 8. Connect the break away switch line. Be sure the break away switch cable is not attached to any part of the tow vehicle hitch assembly. Make sure there is enough slack in the break-a-way cable to allow for turning.
- 9. Adjust the mirrors on the tow vehicle.
- 10. Check all of the lights on the fifth wheel and the tow vehicle (running lights, brake and tail lights, turn signal lights, and back up lights).
- 11. Pick up and store the wheel chocks.
- 12. Check the inside of the coach to verify that everything is stored properly, vents are closed, all of the doors and drawers are shut, and the TV antenna lowered. Close the entrance door and retract the steps.
- 13. Raise the fifth wheel jacks so the entire hitch load is on the tow vehicle. The jacks should be about 2" off of the ground. Do not raise the jacks completely until you have tested the brake control. This will also test the hook-up.
- 14. Pull the unit forward and apply the hand control for the trailer brakes to be sure they are operating properly.
- 15. Completely raise the fifth wheel jacks.

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 in so the site is on the driver's left. This will enable the driver to watch the rear of the unit. Maneuver the vehicle into position before backing into the site. Back up slowly, using the side mirrors as a guide or with the assistance of another person outside, guiding the parking procedure.

Place the tow vehicle in park and turn off the ignition. Block all of the trailer wheels with wheel chocks. Side to side leveling should be done by using shims under the tires on the low side of the unit after it has been backed into the site. This must be done before disconnecting the trailer from the tow vehicle. Lower the stabilizing jacks, if installed. 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 (see Chapter 11), 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 not level.

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CHAPTER 3

AIR CONDITIONING & HEATING

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AIR CONDITIONER

The roof mounted air conditioner installed on your unit will operate only when the unit is supplied with 120 volt AC power from the power cord. The air conditioner circuit breaker must be in the ON position for the A/C to work.

To assist the air conditioner in cooling the unit, park the vehicle in the shade and keep the drapes or blinds closed. Set the thermostat to the desired temperature and keep the doors and windows closed.

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 tripping breaker is not a fault in your electrical system.

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

Step One: Move power switch to ON.

Step Two: Press MODE to select function.

(COOL*, FURNACE, etc.)

Step Three: Press FAN button to select high,

medium or low speed.

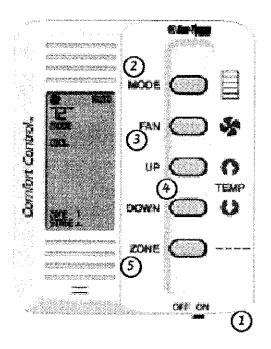
Step Four: Press UP or DOWN to select

temperature.

Step Five: If operating more than one zone,

press ZONE and repeat steps 2-4

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.

^{*} Expect a 2-minute delay for compressor to start.

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(s) installed in your unit is a forced-air furnace fueled by LP gas. If your unit is equipped with two furnaces, the living area furnace is controlled by the air conditioner wall thermostat that controls both the heating, and cooling of the unit. If installed, the furnace in the bath/bedroom area is controlled by the thermostat in the bedroom.

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

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

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

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

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

WARNING

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

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

WARNING

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

LP BOTTLES

This unit may be equipped with two 30# LP bottles. These bottles are controlled with an automatic pressure regulator. The LP bottles contain liquid petroleum gas under high pressure. As the fuel is used, the liquid gas vaporizes and passes through the tank valve to a regulator that automatically reduces the pressure. The low-pressure gas is then distributed to the appliances throughout the pipe manifold system. Improperly adjusted regulators are the major cause of appliance lighting problems. Never attempt to reset the regulator. This is to be done by a qualified service technician. While in high altitudes or extreme cold weather a gas shortage may be experienced. Using one appliance at a time can help adjust to this problem.

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

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

WARNING

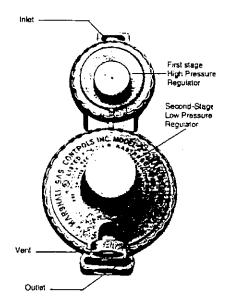
The main gas valve must be shut when the vehicle is not in use. Shut the valve off when refueling to avoid potential danger from pilots lights igniting fuel fumes. Gas valves on appliances with direct spark ignition (DSI) should also be in the off position. Do not store LP, gasoline, diesel, or other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

LP Bottle Filling

Do not fill the bottles to more than 80 percent of capacity. Fire or explosion may be the result of uncontrolled gas flow from an overfilled tank.

LP Regulator

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



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

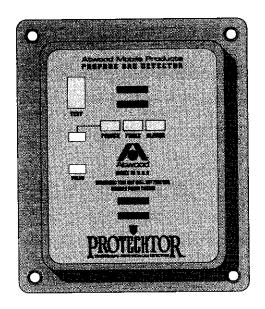
If moisture becomes a problem, consult an authorized LP service center for assistance.

LP Leak 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.



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

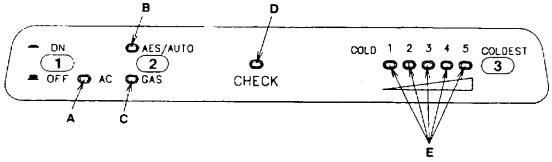
Refrigerator

Before starting the refrigerator, verify that the main LP gas valve is in the on position. The refrigerator may be equipped with eye-level automatic-manual electronic controls with automatic LP ignition system. It can be set to select either 120 volt or LP gas operation, automatically, if desired.

WARNING

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

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



LEGEND 2-WAY AES Model

- 1. Main Power Button ON/OFF
- 2. AES/AUTO/GAS Mode Selector Button
- 3. Temperature Selector Button
- A. AC Mode Indicator Lamp
- B. AES/AUTO Mode Indicator Lamp
- C. GAS Mode Indicator Lamp
- D. CHECK Indicator Lamp
- E. Temperature Indicator Lamps

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

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

Microwave

Your unit may have a 22" microwave installed in it. If so, please be certain to use a surge protector prior to plugging the microwave into the electrical outlet. This will help protect the microwave in case of an electrical surge. For instructions on how to operate the special features on the microwave oven, please refer to the microwave owner's manual in your owner's package.

Range Hood

Your unit may have a range hood installed above the range, below the microwave. The range hood has both a fan and a light for your convenience. It is operated by turning the switch for the light either on or off, and the switch for the fan to low, high, or off. Consult the range hood owner's manual for further instruction on the hood operation.

Range

A three burner range may be installed in your unit. If so, the range may include both a range top and an oven. There is no pilot light for the stove top. The burners are controlled by a piezzo ignition. There are different models used in the Newmar product line with different types of controls. To light the burners on some models, turn the control knob to turn the gas on. Wait a couple of seconds, then push the red spark button until a flame appears. On other models, after the gas control has been turned on, turn the spark control knob until a flame appears. All burner controls operate counter clockwise and have to be pushed inward in order to turn. The oven control must also be pressed inward before turning. To light the oven, push in the oven control knob and rotate counter clockwise to the PILOT ON position. Light the oven pilot light which is located at the back, left-hand side of the oven burner. The oven pilot may be slow in lighting due to initial air in the gas line. The oven pilot has been factory adjusted. No further adjustments are necessary. To extinguish the oven pilot, push in the oven control knob and turn clockwise to the Off position.

Your range may be equipped with a bifold range cover. This cover will help 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:

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

Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle. Proper ventilation when using the cooking appliances will avoid dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.

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

Television Antenna

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

To raise the antenna into the operating position, rotate the elevation handle clockwise. A clicking sound will occur when the antenna is completely

ROTATING ANTENNA FOR BEST PICTURE

LOWERING ANTENNA TO TRAVEL POSITION

RAISING ANTENNA TO OPERATING POSITION

extended. Switch on the main power supply. Note the red LED indicator illuminated. This indicates amplified reception. Switch on the television and tune in a suitable station. Pull the rotation handle down to disengage the gear from the ceiling plate and rotate the antenna until the picture and sound are the clearest.

To lower the antenna, pull the rotation handle down to disengage the gear from the ceiling

plate and rotate the antenna until the pointer on the ceiling plate is aligned with the pointer on the rotation handle. Rotate the elevation handle counter-clockwise until you hear the antenna touch the roof. Resistance will be felt in the handle.

CAUTION

Lowering the antenna with the pointers misaligned will damage the gears or the elevating handle.

You may want to switch your main power supply off. Amplified reception is possible if the antenna is in the full down position.

Television

With the installation of the antenna, the unit is ready for the addition of a television. Cable television connection is an option. A television can be placed in the entertainment center of the living room. Most televisions are powered by 120 volt electricity. Your unit must be plugged into shore power in order for the television to work. There may be jacks installed for televisions to receive the antenna signal. An optional exterior television jack located on the door-side of the coach is also available.

Telephone Jack

One jack for telephone connection is an option. This includes the connector for the incoming telephone line and one outlet inside the unit.

Stereo

An AM/FM radio equipped with a cassette player may be installed in your coach. There are speakers located throughout the unit for your listening pleasure. The operation of the stereo is similar to that of many car stereos. It operates on 12 volt electricity from the coach batteries. A compact disc player may be available as an option on this unit. For further information on the operation of your stereo, consult the stereo owner's manual in the Owner's Information Package.

WATER HEATER

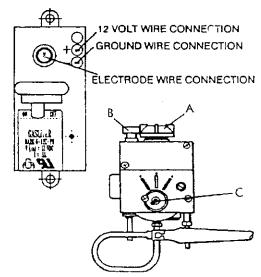
WARNING

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

A six gallon gas/electric water heater with direct spark ignition may be installed in this unit. Before lighting the water heater fill the fresh water system. Purge any air from the water

heater by opening all hot water faucets until water flows steadily from each one. This water heater operates on either LP gas or 120 volt electricity. Available as an option on fifth wheels is a ten gallon model with direct spark ignition.

It is important to read all of the safety information provided in the water heater manufacturer operation manual in the owner's package. At the water heater, place the re-ignitor control in the "OFF" position. Turn the gas cock (A) clockwise to the "OFF" position and the temperature indicator to the lowest setting. Turn off all electrical power to the water heater. Wait five (5) minutes for gas to clear the area. If you smell gas, STOP. Follow the instructions in the safety information sections of the Operation Manual. If no gas odor is present, continue to the next step. Turn on the gas supply. Turn on the electrical power to the water heater. Turn the gas cock (A) counter clockwise to the "PILOT" position. Press the reset button (B) and switch the electric re-ignitor module to the "ON"



position. The re-ignitor will start to spark between the electrode tip and the pilot hood. When the pilot lights, the spark will stop. Continue depressing the reset button (B) for approximately one minute or until the pilot light remains lit. On the initial start-up, it may take several minutes before the pilot light ignites in order to purge the air from the gas lines. Turn the gas cock (A) counter clockwise to the "ON" position. Set the temperature dial (C) to the desired setting. When the re-ignitor is in the on position, it will operate automatically if the pilot flame is accidentally extinguished. The re-ignitor is equipped with an alarm that will sound when the pilot light is extinguished or if the LP supply is turned off. The alarm will serve as a reminder to turn the re-ignitor off.

WARNING

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

Water Heater Storage

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

Pressure Relief Valve

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

WARNING

Do not plug the relief valve under any circumstances.

Washer/Dryer (Optional)

On fifth wheel units, the plumbing and/or the installation of a two piece washer and dryer with 50 amp electrical service is part of the various option packages that are available. The washer and dryers used by Newmar function as those in a home, 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.

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CHAPTER 5

CABINETS & FURNITURE

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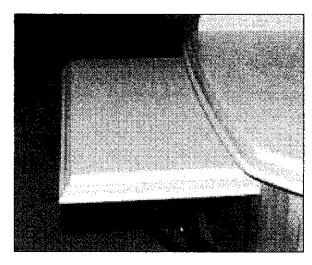
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CABINETS

The cabinets in this unit are constructed on site at the Newmar production facility. Oak hardwood frame cabinet doors may be standard throughout the unit. Brass door and drawer pulls give the interior an added touch of class. Maple Cream cabinets and oak hardwood raised panel doors on overhead cabinets may be optional in this unit.

Storage is an important factor to all RV owner's. Keeping this in mind, the cabinetry is structured to provide as much storage as possible. Some models may have pantry style cabinets in the kitchen for added storage. In the bedroom, the bed platform lifts to provide an additional, convenient storage area. A strap may be provided to help raise the bed. Once the bed platform is lifted, it is held open by pressurized struts to allow hands-free access.

The countertop in the kitchen and bath is made of a decor matching laminate. The "drawer" directly in front of the kitchen and lavatory sink does not pull out, but rather flips down. This provides a storage tray for dish cloths, scouring pads, wash cloths, etc.



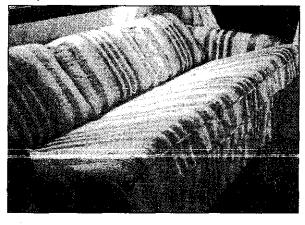
All of the cabinetry can be easily cleaned with any commercial furniture cleaner or polish. As with any wood product, do not saturate these cabinets with water or any other liquid. Be sure to wipe up spills as they occur to avoid staining.

FURNITURE

Living Room Area

A standard feature in the kitchen area is the built-in dinette booth. As an option, one or two drawers may be built-in for storage. A free-standing dinette may be optioned in, depending on the floorplan. This dinette may include a hardwood table and chairs. The chair seats and backs are designed with a decor matching upholstery fabric.

In the living room, a jack-knife sofa with throw pillows may be installed. In order to convert this sofa into a sleeping area, first remove the arm rests. Next, pulling up on the seat part of the sofa while pushing down on the back, will cause the sofa mechanism to "unfold." The sofa is upholstered in decormatching fabric. If you have any questions regarding the warranty on this sofa, contact the manufacturer.

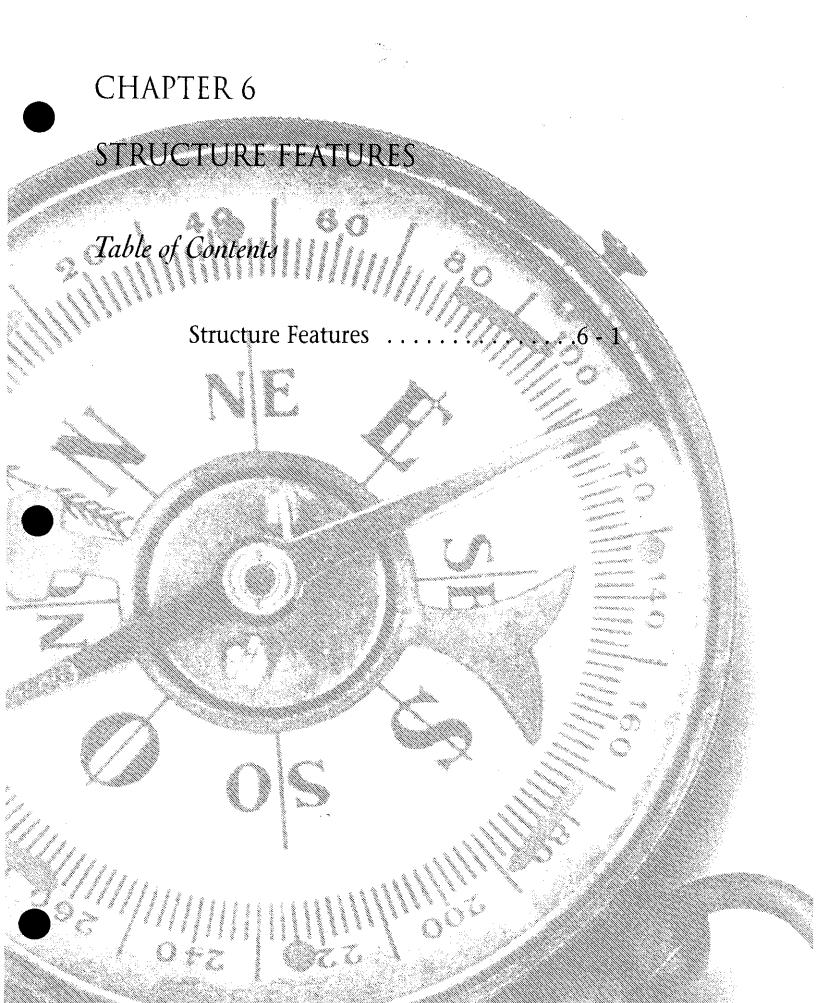


An option may be the Hide-a-Bed sofa. This sofa is a traditional hide-a-bed. Before converting the sofa, extend the slide out, if equipped, (See Chapter 8 for slide out instructions.) to make room for the bed. Once the room is extended, remove all of the seat cushions. Next, take hold of the handle on the bed mechanism and pull to extend. Expand the bed to the fully open position by unfolding the foot portion of the bed.

Optional furniture in the living room may include a petite recliner or a large recliner.

Ведгоот Area

In the bedroom, a queen size bed (60" x 75") may be standard. A quilted bedspread with reverse sham and accent pillow may also be part of the unit's standard package.



STRUCTURE FEATURES

Models with slide outs may have 12" I-Beam steel frame construction while models without slide outs may have tube steel frame construction. These frames are manufactured at the Newmar production facility. Doing this ensures the control of quality that Newmar insists upon.

Rear skid bars are installed on fifth wheels as a standard feature. These will help prevent accidental damage when encountering dips or steep inclines.

The tires installed on the unit may be 15" radials. The steel wheel installed on these units measures 15" x 6". The bolt pattern on the wheel is 6 on $5^{1}/2$ ". Another option, on some models, may be a set of four 16" E Range tires. With the larger size tire, the wheel size is also larger. The wheel size for the optional tires is 16" x 6" with a bolt pattern of 8 on $6^{1}/2$ ". The number of axles, brake size, axle type, axle capacity varies per model. White lug nut covers are also standard on your unit.

Shock absorbers are an optional feature. Installation of these will help cushion the trailer when pulled on rough, uneven roads. They also help stabilize the unit.

A spare tire with a carrier and cover is also optional and may be located in a front storage compartment.

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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 the 120 volt system while the majority of the lighting used in recreation vehicles is powered by 12 volt. The power for the 12 volt system is supplied by the coach batteries. The power for the 120 volt systems is supplied by the power cord when the unit is connected to an outside power source. When connected to shore power, the 55 amp power converter with a charger will automatically charge the batteries as well as convert 120 volts into 12 volts.

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 30 amps. Check to make sure the pins in the outlet are oriented correctly, that they match the power cable, and that they are in good condition. If there is a circuit breaker switch at the plug, it should be turned OFF before making the connection. Insert the plug completely into the outlet and turn the circuit breaker on. Close, and lock the electrical compartment door to keep the contents clean, dry, and secure. Close the cover on the power box, if equipped, to avoid an unintended disconnection, and to keep contents clean. Switch the main breaker to the 'ON' position. The 120 volt system will energize all 120 volt circuits and outlets when the main breaker is turned on.

Breaker Boxes

The 120 volt and 12 volt breaker boxes are generally located above the toilet, but the location may vary on different floorplans. 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.

Batteries

The 12 volt battery on your unit is installed by Newmar Corporation. This battery is warranted by the battery manufacturer. It is used to operate the 12 volt items in the unit. The battery also operates the water heater's electronic ignition, landing jacks, etc. In-line breakers protecting these circuits are found near the battery. If the tow vehicle is equipped with a charge line, the tow vehicle's electrical system will charge the coach battery while in transit. The power converter automatically charges the coach batteries when the unit is connected to a 120 volt outside power source.

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, when a battery is not used for an extended period of time, it may lose it's charge. Periodic charging of the battery 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 battery 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. Do not use grease on the bare metal inside the cable terminals to prevent corrosion. Grease can act as an insulator. 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 battery should be removed and stored in a warm place, when not using your unit 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 battery may require periodic charging during storage. If the unit is to be stored for a long period of time, it is recommended that all 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 battery is a deep cycle RV/marine battery. 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 Packet received with this unit.

120 Volt Receptacles

For your convenience, there are 120 volt receptacles located throughout the interior of the unit. There are also exterior outlets located on the doorside of the coach. These receptacles require the 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, to the earth ground.

Ground Fault Circuit Interrupt Receptacle

The 120 volt electrical outlets in the kitchen and bath area are ground fault circuit interrupt (GFCI) protected receptacles. The electrical outlets located in the slide out may be 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.

Electrical Diagrams

Typical electrical diagrams can be found in chapter 15. Please note, some circuits may not apply to certain brand/types.

Notes				

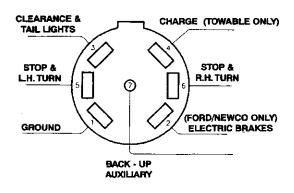
Wiring Connector

The wiring connector installed on all Newmar fifth wheels is the standard seven pin connector. The 12 volt battery in the tow vehicle supplies power to the trailer's electric brakes, tail lights, brake lights, turn lights, etc. through this connector. The color scheme for the wiring pigtail is as follows:

Left Turn Signal Red Right Turn Signal Brown	5.04.14	Charge
	Back Up Lights Yellow	

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

7: CIRCUIT RECEPTACLE View Looking Into Tow Vehicle Receptacle



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CHAPTER 8 SLIDE OUT FEATURES

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WARNING

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

IMPORTANT

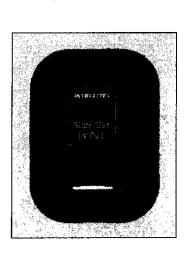
The slide out room should be inspected for alignment every six (6) months. If alignment is necessary, have the room adjusted.

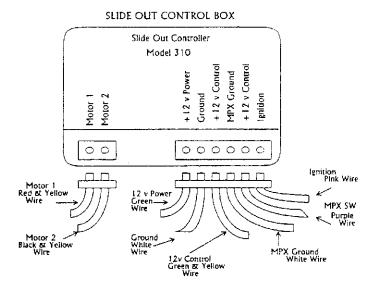
GENERAL INSTRUCTIONS

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

CAUTION

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



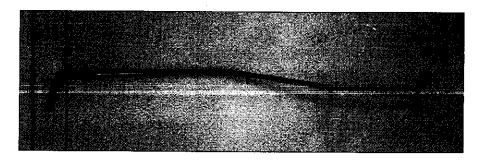


IMPORTANT

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

Extending the Slide Out Room

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



Retracting the Slide Out Room

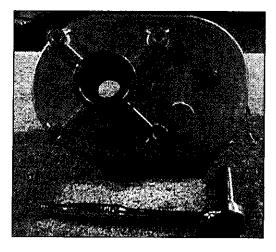
- 1. Activate the slide out switch. When fully retracted, the room will automatically stop. The indicator light will be lit while the room is traveling.
- 2. Before moving the coach, engage the lock arms by pushing the arm up into the locked position using the lock arm tool, as required.

Manual Extension 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 1/2" drive $-1^1/2$ " open end crows foot wrench and a supplied 1/2" drive ratchet wrench, loosen the $1^1/2$ " nut. This will require approximately $1^1/2$ turns. The nut is a standard right hand thread. After the initial release, the nut will turn for a partial turn, then will release

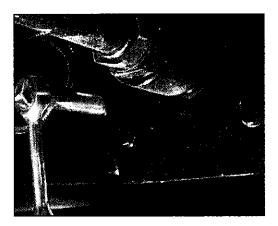


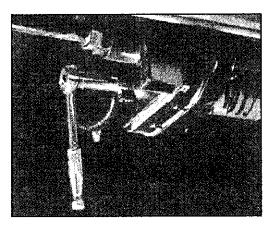
again as you turn the wrench. This second release is required to loosen the TRANSTORQUE bushing from the shaft.

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 5/8" socket and ratchet wrench. By placing the socket on the 5/8" hex nut located on the gear box of the K-900 motor, the slide out can be moved in either direction by turning the hex nut.
- 3. If the slide out does not move by using the hex nut, the room can also be extended or retracted by using the procedure described for the SHAFT END-MOUNTED MOTORS. If the room is moved using this method, the correct torque on the 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.

IMPORTANT

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

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.

Before extending the slide out, make sure that the stabilizing jacks, if installed, have been set.

to the exterior of the unit. Notes

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

CHAPTER 9

EXTERIOR FEATURES

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EXTERIOR FEATURES

Exterior Sides

The sidewalls of this unit are constructed of filon fiberglass. An option for the exterior sidewall is gel-coated fiberglass. However, gel-coated fiberglass end caps are standard. 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.

JACKS

Optional on fifth wheel units is one pair of stabilizer jacks or 12 volt electrical front jacks and snaps for the jacks. Before using the jacks, read and closely follow the operation instructions in the jack manufacturer instructions.

Fifth Wheel

To lift the unit for uncoupling, drop the pad tube by removing the lock pin. Re-pin the hole that places the foot pad closest to the ground. Push the toggle switch to the "DOWN" position and hold until the jack raises the unit to the desired height.

CAUTION

Before raising the jacks, make sure the hitch is securely latched by applying the trailer brakes and slowly pulling the tow vehicle forward. The unit should prevent the tow vehicle from moving.

To raise the jacks after coupling, push the toggle switch to the "UP" position and hold until the jacks are fully retracted. Release the toggle switch as the lock pin in the inner ram tube nears the end of the outside tube to avoid unnecessary wear on the motor clutch. Remove the lock pins and raise the pad tubes, re-pinning them in the highest possible position.

CAUTION

When the jacks reach their maximum extended or retracted length or maximum load, you will hear a clicking noise. This is the slip clutch built into the motor to prevent jack overextension or retraction. Release the toggle switch as soon as you hear the clicking. Continued operation with the clutch slipping can damage the jacks.

These jacks can be operated manually, if necessary. Insert the hand crank into the alignment tube until the end engages with the crank shaft. Turn the crank handle counter clockwise to raise the trailer. Remove and store the crank handle. To raise the jacks after coupling, rotate the crank handle clockwise. Retract as far as possible with the crank handle, then remove the

lock pin and raise the pad tube and re-pin it in the highest possible position. Please refer to the jack manufacturer operation Instructions for further assistance.

Roof

Standard on this unit is the seamless aluminum roof. A rubber roof is optional. Proper care and routine maintenance of your roof is necessary for trouble-free performance. See chapter 14 for cleaning instructions. A rear ladder is an optional feature on this unit. The ladder will assist you in gaining access for routine roof inspections.

Bumper Storage

An aluminum bumper cover may be a standard feature on this unit. The bumper on this unit may be equipped for sewer hose storage. When traveling or parked the hose conveniently stores in the bumper and is easily accessed when needed.

Steps

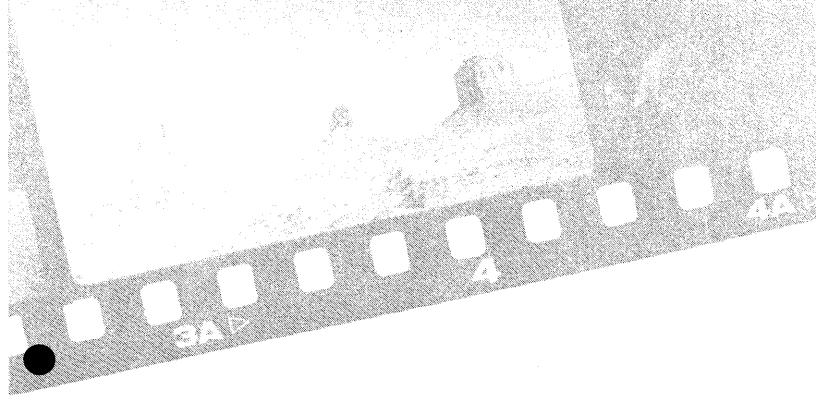
This unit is equipped with triple fold down entrance steps. To extend the step, first release the locking latch. Once the latch is released, pull the step pivot section out and down by the step cross member bar. NOTE: Be careful not to get any fingers or clothing near the pivot action of the step. Next, release the second step by pulling the step up and straight outward until it locks into position. Then pivot the third and final step out and down. For retracting the step, reverse the procedure. Keep all step pivot points lubricated with a quality grease based spray lubricant for smooth operation.

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CHAPTER 10 INTERIOR FEATURES

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INTERIOR FEATURES

Ведѕргеад

All units have a decor matching quilted bedspread enclosed as part of the standard package. The recommended cleaning instructions for this spread are **Dry Clean Only**. The materials that make up the spread may have been treated and dry cleaning will preserve this treatment.

Flooring

The floor covering in the living room and bedroom of the unit is 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 in the bath, kitchen and foyer area is a vinyl flooring. The cleaning procedures for this flooring are the same as with any linoleum. Use a mild soap with warm water and a soft cloth or mop. Optional flooring in the kitchen and foyer area is simulated plank or 12" marble-look tiles. These tiles can also be optioned in the bathroom. Plank flooring is cleaned the same as linoleum. Do not saturate with water; this could damage the flooring.

Ceiling

The ceiling in this unit is vinyl covered paneling. To clean, wash with warm water, mild detergents, and a soft cloth.

Window Treatment

The window treatment throughout the unit is mini blind window shades with drapes and valances. The mini-blinds allow the owner to select the position of the blind: open, closed, or semi-closed. The window can be open and the blind semi-closed allowing fresh air to enter the unit while maintaining privacy inside the unit. Drapes and valances must be DRY CLEANED ONLY. Water-based cleaning products may cause excessive shrinkage or fading. The optional window treatments in this unit is to have day/night window shades or lambrequins installed in the living and bedroom areas. Day/night window 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.

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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 stainless steel sink. The unit may have two sink covers to provide additional counter space when not using the sink. Stainless sinks do not rust or chip. Cleaning care consists of washing with mild detergents and a soft cloth. Avoid using "S.O.S." type cleaning pads because they may scratch the stainless steel surface. The faucet in the kitchen is an 8" chrome single-handle faucet.

Bath Sink, Shower e3 Accessories

The sink in the bathroom may be a vacuum formed durable white plastic. Use care when cleaning, to prevent from scratching the surface. The faucet in the bathroom may be a decor matching white dual-handle faucet. The shower installed may be a tub/shower surround with a shower door. The white tub faucet with shower head, hose and bracket may coordinate with the sink faucet. White bath accessories include a towel bar and a tissue holder.

Monitor Panel

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

Monitor Panel Calibration

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

Water Pump

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

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

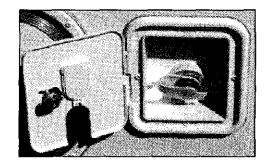
If water doesn't flow when a faucet is turned on while using the demand system, use the following trouble shooting chart.

SITUATION	SOLUTION
	1. Fill tank
Pump running - no water	
	2. Clear the water line to the pump
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 through the water fill located on the side of the unit. There are two ways to fill the fresh water tank. One would be with buckets and a funnel. Place the funnel in the water fill port and pour the water from buckets, jugs, etc. The other way would be with a water hose. When filling the tank, be sure to use a water hose manufactured and labeled for potable water. Place the hose in the water fill port and turn the water on. When the tank is full excess water will flow from the screened vent located below and to the right of the water fill port. 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/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 3 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. Pour the chlorine solution into the tank when the fresh water tank is empty. This is done by placing a funnel in the fresh water port and pouring in the chlorine solution. Once the solution is in the tank, completely fill the fresh water tank with water.
- 4. 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.

- 5. Allow the 50 PPM disinfecting solution to stand in the system at least four hours.
- 6. 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 at or 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.

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

Toilet

The stool operates with water from either the fresh water tank with the water pump on or the city water supply. Before using the stool, add water to the bottom of the tank. Refer to the 'BLACK WATER TANK' instructions in this chapter. The stool flushes wastes 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. Depending upon the model installed, water can be added to the stool bowl by lifting up on the lever. To flush the stool, push down on the lever until water swirls.

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

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

P-Traps

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

Black Water Holding Tank

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

CAUTION

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

Gray Water Holding Tank

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

Waste Water Disposal

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

WARNING

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

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

The holding tanks should only be drained when they are at least 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 most RV supply stores. Once you have placed the adapter on the drain hose, it can remain there for the life of the hose. Unscrew the cap off the drain. Connect the hose with the adapter in place to the drain fitting. Open the gate valve all the way by pulling on the T-handle. The tank will start to drain as soon as the T-handle is pulled. After you have drained the black water tank, immediately drain the gray water tank. Doing this helps to flush the black water from the sewage hose.

When both of the tanks are empty, flush them with a fresh water rinse before you close the valves. The gray tanks are easily flushed by pouring a couple of gallons of water into a sink drain. Prime the system with an odor control chemical following the directions above for preparing the system for use. 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, add enough water to the black water tank to cover the bottom.

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

No Fuss Flush

Standard on this unit may be 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. Then, 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.

Exterior Shower (Optional)

An optional feature on your coach may be the exterior shower. If installed, the exterior shower would be located on the off door-side of the coach. The exterior shower feature allows you to do such things as rinse off sand or grass, muddy shoes, or bathe your pet outside of your unit. The faucet operates just as it would in your kitchen or bathroom.

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CONSTRUCTION FEATURES

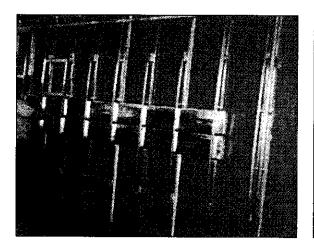
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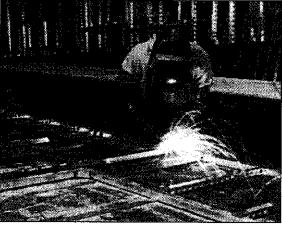
CONSTRUCTION FEATURES

The floor decking is constructed of durable ¹⁹/₃₂" structure wood. The fiberglass insulation in the floor, roof, and sidewalls is rated at R7. Some models may have the underbelly of the unit enclosed with fiberglass insulation.

The sidewalls and roof are constructed with aluminum frame. The sidewalls are built with 16" on center construction that are designed to last. A blanket of rolled insulation is added to the sidewalls, roof, and slide out to provide a greater efficiency and consistency of climate control. This will assist the furnace in the winter by keeping the warm in and the cold out. In the summer months, it will assist the air conditioning by keeping the cool air in and the hot air out.

Below are examples of the framing and insulation that your unit is constructed with.





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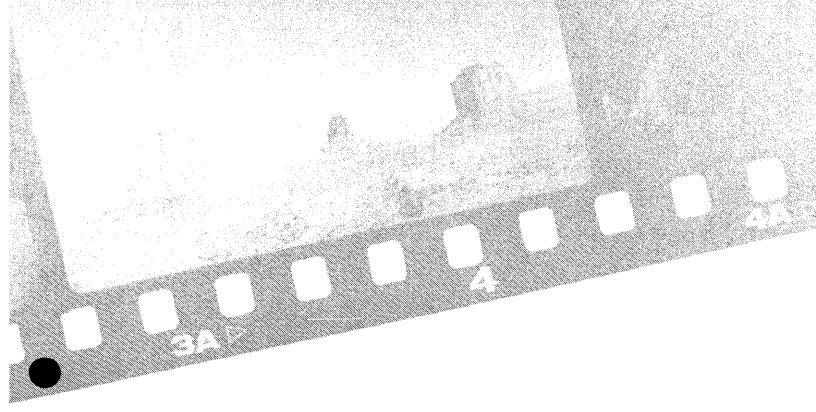
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CHAPTER 13

WINDOWS, AWNINGS, VENTS & DOORS

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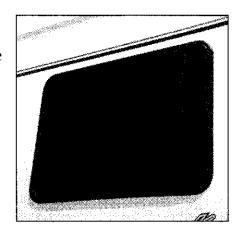
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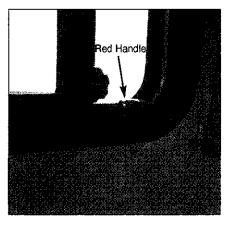
WINDOWS

The windows installed in this unit may be the radius torque style. These windows are also referred to as jalousie windows. They open with the simple turn of a crank.

As an option, double pane tinted safety glass windows may be installed.



In the bedroom of the unit one window may 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. If there is a door in the bedroom of the unit, there will not be an egress window.



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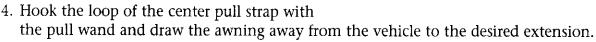
AWNINGS

Side Awnings

A side awning may be available on this unit.

EXTENDING

- 1. Loosen the black locking knob behind each main arm. Flip the travel lock latches up. IMPORTANT: Failure to loosen the black knobs will prevent the awning from fully retracting.
- 2. Lift the arm storage locks, located on each of the upper arms, to the unlocked position. (Fig. 1)
- 3. Place the hook end of the provided pull wand over the brake lever and pull downward to the open position. (Fig. 2)



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.

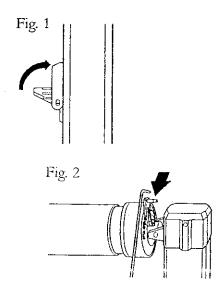


Braces left in the down position will not prevent the awning from retracting inadvertently. Personal injury or property damage may occur that will not be covered by warranty.

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

CAUTION

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



Retracting

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

WARNING

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

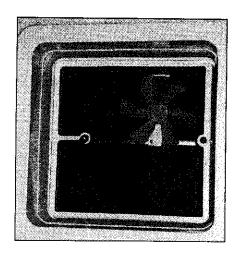
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Vents

A power vent with a wall switch is located in the bath area. This vent operates on 12 volt electricity.

Optional in the master bathroom is a skylight. If installed, it would be located above the tub/shower.

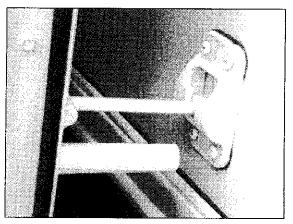


In the kitchen, an option would be the installation of a vent with an automatic lift.



Doors

The entrance door is a radius door with a dead bolt lock for added security. The door can be held open with the door stop. With the door open, simply lift the "T" section on the door and place it in the holder on the exterior sidewall of the unit.



CHAPTER 14

ROUTINE MAINTENANCE

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EXTERIOR CARE

Washing

The exterior of your new camping vehicle is made of pre-finished aluminum and 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. Do not use strong soaps or detergents for washing the vehicle. Always use a mild soap in warm water, a commercially prepared product for automotive finishes, or your local car wash. Be careful when using a pressure-type washer to avoid loosening any exterior decals or sealants, etc. After washing, carefully inspect the caulking around window frames and vents and any other joints that may have separated. Recaulking, if necessary, is relativity simple.

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 and gel-coated fiberglass finishes. Cleaning 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, and external seams should also be checked at least twice a year. Check the roof seams once a year for cracking or peeling. If deterioration is noted, reseal the seams or seals with an approved sealant to prevent leaks. Your dealer can

perform the resealing inspections and work for you. Your dealer is also able to inform you of the appropriate sealants to be used, if you prefer to do the job yourself. Sealants can be purchased from your Newmar Dealer.

Proper Sealants for Application

Plas-T-CoteMetal or fiberglass roof. Surebond #SB-140 All Skylights. Carlisle #502-LSWRubber roof. Self Leveling Sealant be used as the main sealant. Sikaflex-221To seal or glue side walls, frame rails, etc. to cap. Tape #P-8125 ring, baggage doors. Any place that screws are used. exterior where silicone is not used. Splice Cement

Striping & Decals

The striping and decals on your vehicle 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. Keep them at least 18 inches from the edge of the decals. High pressure water may cause the decal to loosen and peel. Test small sections of decals when using any type of cleaning solution.

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, when a battery is not used for an extended period of time, it may lose it's charge. Periodic charging of the battery 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 battery 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. Do not use grease on the bare metal inside the cable terminals to prevent corrosion. Grease can act as an insulator. 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 battery should be removed and stored in a warm place, when not using your unit 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 battery may require periodic charging during storage. If the unit is to be stored for a long period of time, it is recommended that all 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 battery is a deep cycle RV/marine battery. 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 Packet received with this unit.

IMPORTANT

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

INTERIOR CARE

WARNING

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

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 materials appearance and shorten its life.

Included in the owner's information package 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 unit for the bedspread, draperies, headboard, and valances may contain fire retardant additives that can be damaged by use of improper cleaning products. 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. For best results, the fabrics in this unit should be cleaned by a professional carpet and upholstery cleaner.

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

WARNING

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

The vinyl material used in creating the interior of this unit should be cleaned with a soft damp cloth and mild detergent. Do not use solvents of any kind. Solvents may damage the surface of the vinyl.

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.

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.

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 optional 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, Fantastic, Formula 409, etc.) will make the floor harder to clean because of residual deposits.

Counter Tops

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

Accessories

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

LP Detector

The LP detector is self-contained and DOES NOT require any maintenance other than normal cleaning and dusting. When cleaning the exterior of the case use a damp cloth or paper towel. Do not spray cleaners or wax directly into the case as it may cause false alarms.

Windows

The glass in the windows may develop water spots, especially if water containing salts or other matter is not properly removed. The spotting effect is magnified when the glass has a reflective finish. Using a squeegee immediately after washing will help reduce water spotting.

Condensation

The following information is to make the retail owner of this unit aware of the potential problem with condensation in a recreational vehicle. 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 not protected by storm windows during the winter season. This problem can be controlled by the occupants of the recreational vehicle by:

- 1. Opening a window or roof vent slightly to allow the moisture to escape from the unit.
- 2. Using a small dehumidifier to remove 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 may cause many problems with your new unit. It 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 when it drips
 back into the interior of the coach. Walls and ceiling panels may also become wet when
 the moisture accumulates on these surfaces.
- Since surface condensation within the coach cannot be controlled by the manufacturer, damage caused by condensation is not covered by your warranty agreement.
- Although condensation can be a serious problem, it can be easily controlled by the occupants of a recreational vehicle. By following the above guidelines your new coach can be used in cool climates without condensation problems.
- Newmar Corporation does not recommend the use of un-vented catalytic heaters. If catalytic heaters are used the customer must use a dehumidifier in conjunction with the catalytic heater. The use of unvented catalytic heaters may cause carbon monoxide poisoning.

ROUTINE MAINTENANCE

Below is a brief list of basic routine maintenance items that should be checked as follows:

Monthly

• Check battery water level.

Every Trip

- Check the tire pressure of all tires.
- Tighten all lug nuts on all of the wheels.

Every 5,000 Miles

- Clean 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.

Every 6,000 Miles or 3 Months

- Clean all door and window seals.
- Inspect and repair broken seals around the tub and shower area.
- Lubricate the exterior door hinge and latch with a graphite (silicone) lubricant.
- Check, clean, and tighten battery cables.

Every 12,000 Miles or 6 Months

- Lubricate exterior doors and locks with silicone.
- Inspect the slide out room for alignment, adjust if necessary.
- · Rotate tires.
- Check all gas appliances for proper operation.
- Clean window and door seals with a mild soap and spray with silicone lubricant.
- Lubricate the moveable parts on the entrance step.
- Check the wheels and nuts for cracks, and check the tightness of the lug nuts.
- Have the LP system checked by a qualified technician.

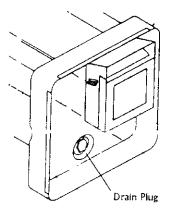
Annually

- Inspect roof seams and joints. Reseal when necessary or consult your dealer.
- Sanitize the fresh water system:
- Have the axle bearings re-packed and grease the shackle links.
- Wax and buff all gel-coat surfaces on the vehicle as described previously in this chapter.

Winterizing

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

- 1. The water heater must remain off during this process. Shut off the water pump and make sure the water supply valves are closed. Disconnect the city water fill.
- 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.
- 4. After the water heater has cooled off, remove the drain plug to drain the water from the water heater. In the exterior compartment beside the water heater there are two water heater shut off valves and a bypass valve. The shut off valves must be closed and the bypass valve must be open, prior to winterizing to prevent the antifreeze solution from entering the water heater.



- 5. Close the low point drains to prevent the antifreeze from draining through the lines onto the ground.
- 6. Close the water supply valve that flows from the pump to the tank. Remove the water filter, if installed. (See Chapter 11 for more information.)
- 7. Use only non-toxic antifreeze that has been approved for use in drinking/potable water systems. Place the in-take hose into the antifreeze supply. Open the antifreeze valve to allow the solution to flow freely. Once the water pump is turned on, proceed to the kitchen faucet, bath faucet, inside and outside shower, turning on the hot and cold, and flushing the stool until the antifreeze solution flows freely. 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. Store the in-take hose and turn the water pump off.
- 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. Put water in the fresh water tank and pump at least one gallon through the water pump in order to remove the antifreeze from the water pump. Keep the water heater supply valve closed and the water heater bypass valves open. The supply valve for the fresh water tank from the pump must remain closed. As in winterizing, open the kitchen faucet, bath faucet, inside and outside shower, turning on both the hot and the cold, and flushing the stool until the antifreeze solution is flushed out of the system and the water flows clear. Once the system has been flushed, open the

water heater supply valve and close the water heater bypass valve. Open the fresh water tank supply valve from the pump and the ice maker valve. Reinstall the water filter. Be sure to close the fresh water tank drain valves to allow the tank to fill.

NOTE: Remember, that if your unit has the optional exterior shower installed you *MUST* winterize this system as well.

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 turned on to keep the unit warm. Continued use in cold weather will require the unit to be winterized.

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CHAPTER 15

CHARTS & DIAGRAMS

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Wiring Color Scheme		5 <u>12 13</u>
Typical 120 Volt Wiring I	Diagram 15	Kalendari Kalendari
TV/VCR Wiring Diagram	15	<u>5</u> - 19
Upgrade Sound System Sp	beaker	
Connection		20
Typical Fresh Water Diagr	am15	5 - 21
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Typical Drain Line Diagra	m	i - 23
Typical Drain Line Diagra Slide Out Mechanism	m	
- -		5 - 25

IMPORTANT INFORMATION ABOUT YOUR AMERICAN STAR FIFTH WHEEL

Coach:	Year – 2004	Model -	Serial # 3
	 		

APPLIANCE	BRAND	MODEL NUMBER	SERIAL NUMBER
Refrigerator		NIODEL TOMBLE	DETER IS INSTRIBER
Water Heater			
Range			
Microwave			
Furnace, front			
Furnace, rear			
Aux. Heater			
Air Conditioner, front			
Air Conditioner, rear			
Air Conditioner, dash			
Range			
Microwave			
Washer			
Dryer			
Converter			
Inverter			
Television, front			
Television, rear			
Television, exterior			
VCR, front			
VCR, rear			
DVD			
Radio, front			
Radio, rear			
Radio, exterior			
CD Player			
Surround Sound			
DVD / Stereo			
Ice Maker			
Freezer			
Satellite			
Navigation			
Rear View Monitor			
Rear View Camera			
CB Radio			
Generator			

MAINTENANCE RECORD

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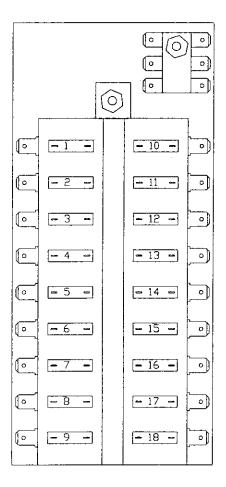
FUEL, OIL & MPG RECORD

	ODOMETER	FUEL	O1L	AVE.		
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FUEL, OIL & MPG RECORD

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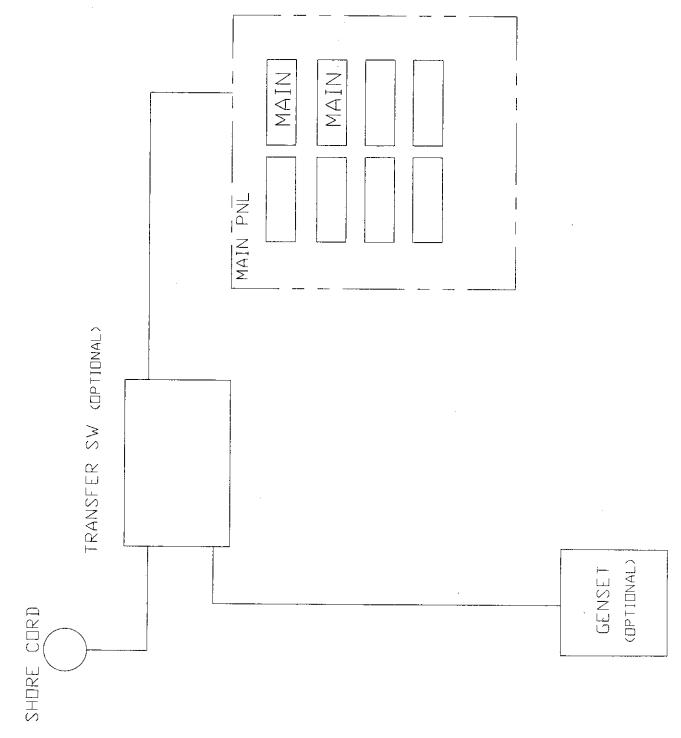
NOTE: FUSES/FUSE PANELS USED WILL VARY BY MODEL.



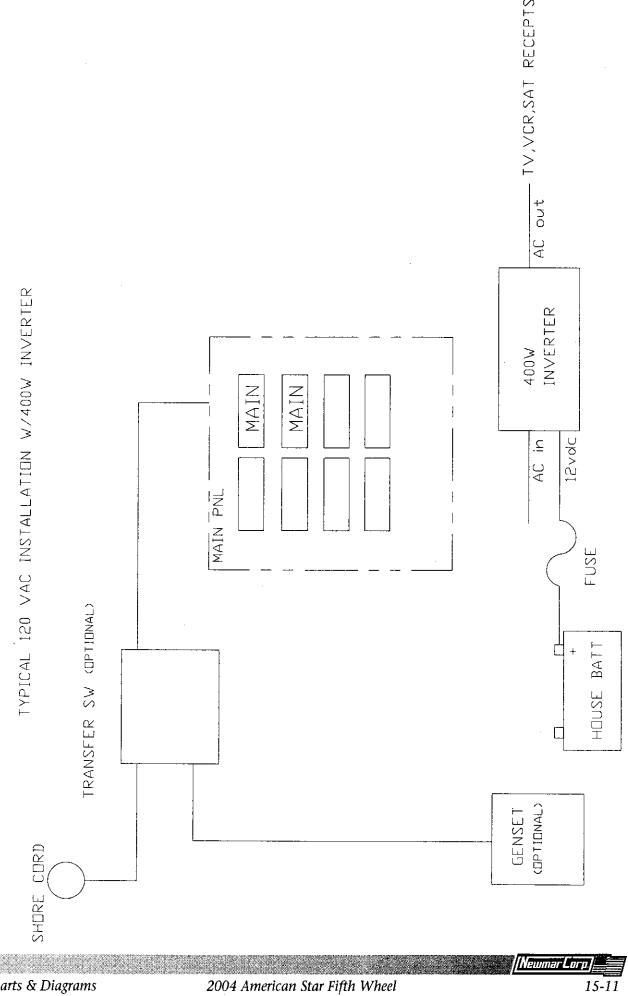
	RATING	
FUSE #	(AMPS)	DESCRIPTION
1	20	TV/STERED
2	20	KITCHEN LIGHTS
3	20	BEDROOM LIGHTS
4	20	SECURITY LIGHTS
5	20	WRAP LIGHTS
6	50	SLIDE-DUT LIGHTS
7	1	C.D. / LP DETECTORS
8	5	REFRIGERATOR
9 .	7.5	AWNING
10	50	FURNACE
11	20	LIVING ROOM/ENTRY LIGHTS
12	20	BATHROOM LIGHTS/FAN
13	10	MONITOR PANEL/ WATER PUMP
14	20	SLIDE-OUT MOTORS
15	7.5	FANTASTIC VENT/ WATER HEATER
16	7.5	AIR CONDITIONER CONTROLS
17	50	SATELLITE
18	7.5	CEILING FAN

INTERIOR FUSE PNL

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WIRING COLOR SCHEME

16 GAUGE

Grounds	
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)	Grey
Courtesy Lights (switched)	Grey w/White
Detectors, CO & LP	
Rear Center Brake Light	Blue
LP Fuel Gauge	
Air Conditioner Controls	
Monoplex Water Pump Switch	Yellow w/Black
Vent Thermostats	Black
	Red w/White*
Water Heater DSI Switch Harness	Green w/White*
	Bluc 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.)

10 GAUGE

Grounds	.White
Living Room Entry Lights (hot feed)	.Red
Bedroom Lights (hot feed)	.Orange
Kitchen Lights (hot feed)	.Green
Bathroom Lights (hot feed)	.Brown
Power Rear Awning & Freezer	Purple w/Yellow
Power Step (hot feed)	.Green w/Black
Power Jacks	.Yellow
Electric Brakes (tri-axle)	.Blue
100 Watt Inverter	.Red w/White

8 GAUGE

GroundsWI	nite
Battery	d
ConverterBla	ıck
Solar Prep	een

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

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box. 30A Circuits wired with 10–2 romax type 20A Circuits wired with 12–2 romax type AIA Circuits wired with 14–2 romax type AII pre-wire for air use 20 omp fuse of Distribution panel exposed to aisle space.

ELECTRICAL SYMBOLS

O-120vac J-Light (Wall)

(AC) Air conditioner (AC) Power Cord (J) 110V Junction box

(p) 110V Recept

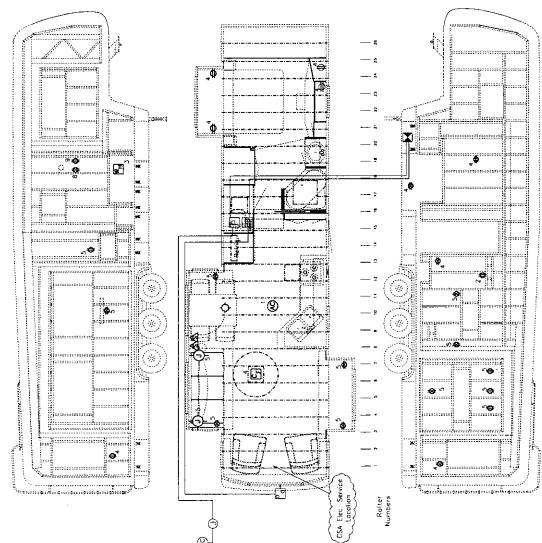
Col 12V Storage Battery

A 110V Switch

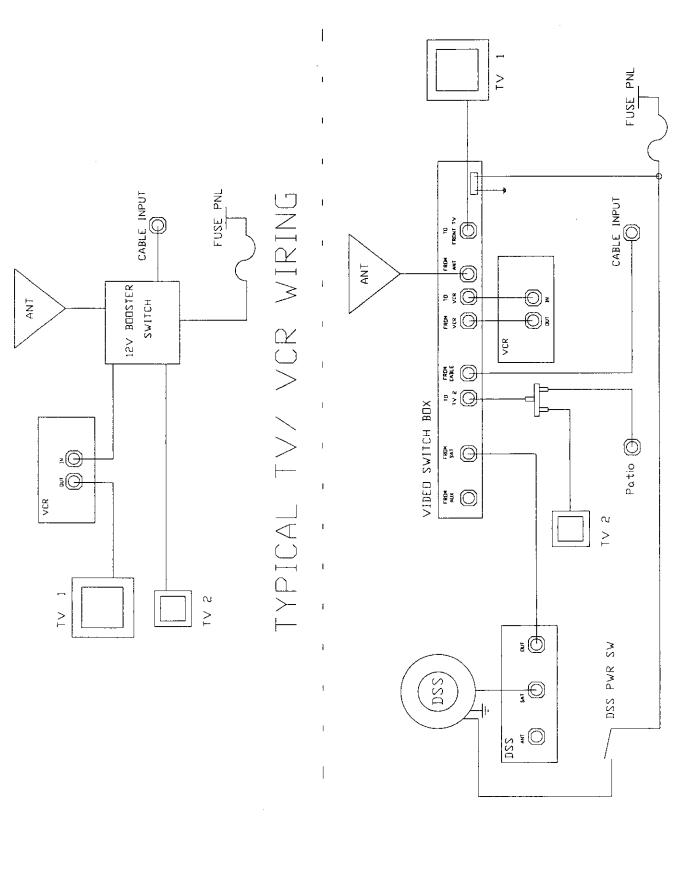
Some circuits may not apply to certain brand & unit types.

CIRC 30 Amp 2 Service 3	TIO.	CIRCUIT FUSE BREAKER 1.0A 1 20 Amp HACR Air conditioner 2 15 Amp HACR Microwove 3 15 Amp HACR Water heater 4 20 Amp HACR (Lights / Conv.) 5 20 Amp HACR (Lights / Conv.) 6 20 Amp HACR (Lights / Conv.)	LOAD Air conditioner Microwove Water heater Lights / Converter / Recepts
_		/ vere;	included accepted

	2 2 3	<u>-</u> 1	112121
	5 9	20 Amp HACR 20 Amp HACR 20 Amp HACR	Lights / General recepts Refer / Kitchen recepts Rear air conditioner
Service	7.8	20 Amp HACR 20 Amp HACR	Converter Dryer
	9	15 Amp HACR 15 Amp HACR	Washer Block heater
	11	15 Amp HACR	Heat pods
	13	15 Amp HACR	Freezer
	4	15 Amo HACR	Washer / dry combo

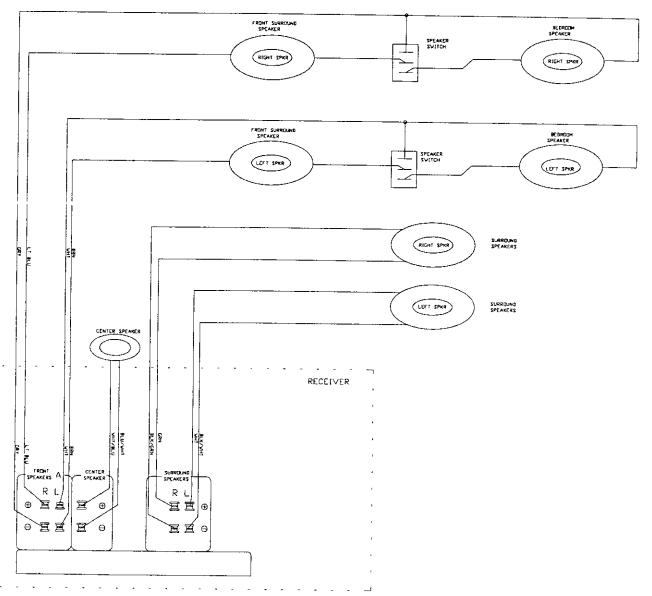


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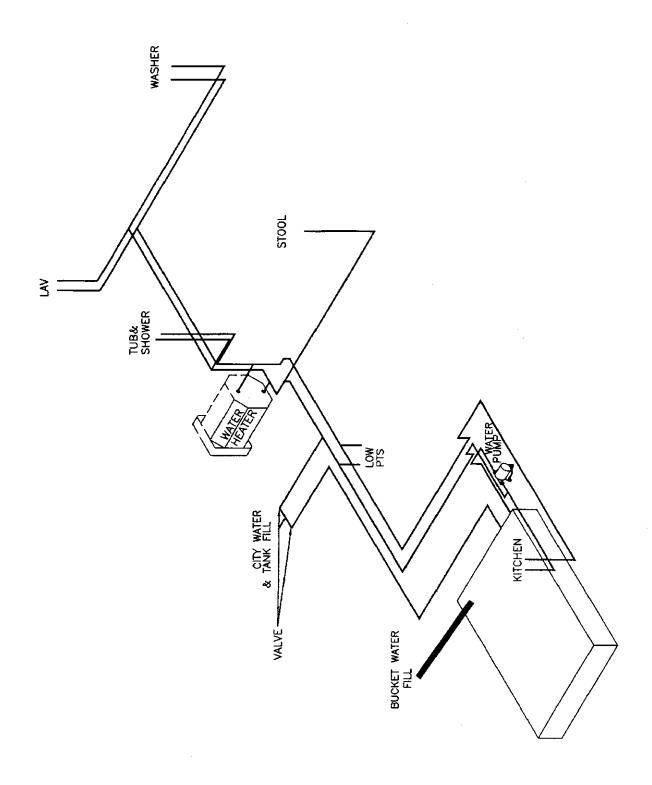


TYPICAL TV/ VCR W/VIDEO SELECTOR SWITCH WIRING

TOWABLE UPGRADE SOUND SYSTEM SPEAKER CONNECTION



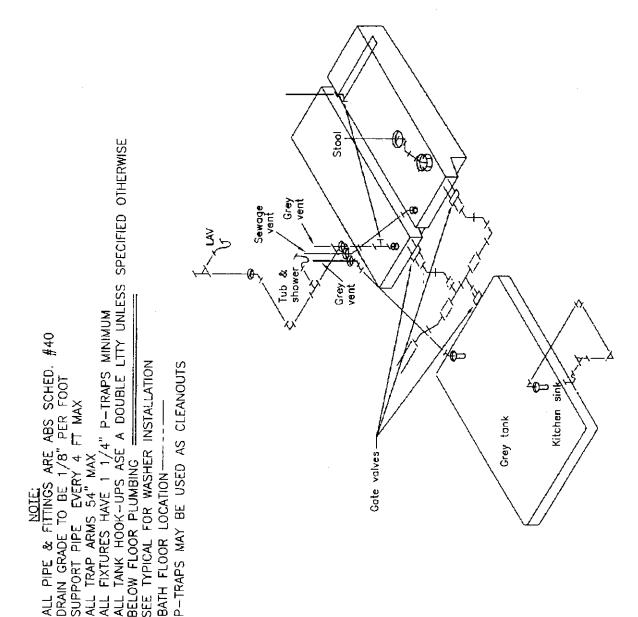
TYPICAL FRESH WATER DIAGRAM



* NOTE: Plumbing will vary with floorplan

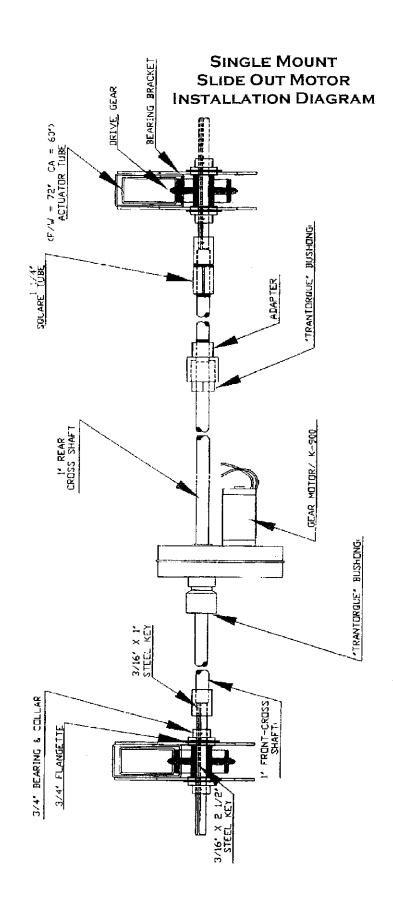
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TYPICAL DRAIN LINE DIAGRAM



* NOTE: Plumbing will vary with floorplan

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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			
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ADDRESS		·	
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NEWMAR CORPORATION ATTN: SERVICE DEPARTMENT P.O. BOX 30 NAPPANEE, IN 46550 FAX: (574) 773-2007

Customer Information Update Form

BUSINESS REPLY MAIL

FIRST CLASS MAIL

PERMIT NO. 102

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POSTAGE WILL BE PAID BY ADDRESSEE

NEWMAR CORPORATION ATTN: SERVICE DEPARTMENT PO Box 30 Nappanee, IN 46550 NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



Customer Information Update Form