

1979 Airstream Owner's Manual

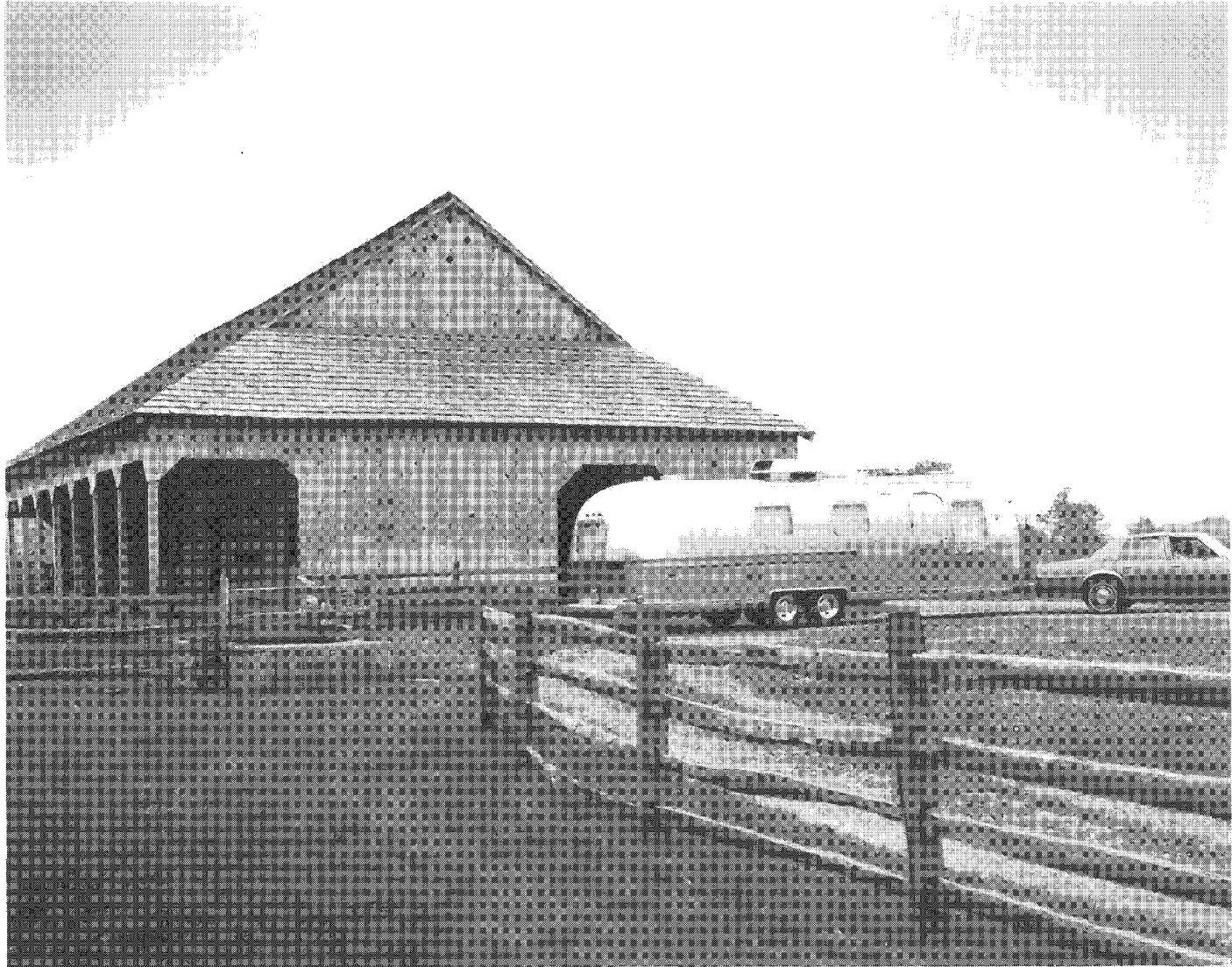


COVER PHOTO

The 1979 Airstream Travel Trailer is shown in front of the Col. John Johnston House, Piqua, Ohio. Located in The Piqua Historical Area, it is the only Indian agent house in Ohio. Built in two sections during 1810-1812, this was the home of the renowned farmer, statesman and politician. Johnston centered his farm operations around fruit and pork production.

(Photo session courtesy of the Ohio Historical Society)

1979 Airstream Owner's Manual



Introduction

An Airstream travel trailer offers you excellence in travel luxury and mobility. This owner's manual is your key to carefree travel fun. It contains information necessary to avoid problems. Consult it when you have a question about your new Airstream. It has been designed to aid you in knowing your trailer better. All information, illustrations and specifications contained in this literature are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time without notice. Should you trade or sell your Airstream, please leave the manual with the trailer. Go Airstream and make this your year for carefree vacations.

Note: If and when new materials and production techniques are developed which can improve the quality of its product or material substitutions are necessary due to availability, Airstream reserves the right to make such changes.

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Wally Byam Caravans, Rallies and Clubs

When you bought your Airstream, you bought a whole new way of life. Airstream owners enjoy endless opportunities for friendship, fun and adventure. You may join every **Airstream Wally Byam Caravan** and **Airstream Company Rally**, we arrange for such rallies to various areas each year. You also become eligible to join the **Wally Byam Caravan Club International**, the largest single make trailer club in the world. The **WBCCI** is made up of 26,500 family memberships and 170 local chapters or units throughout the United States, Canada and Mexico. They meet at monthly rallies, or where weather conditions prevent year round rallies, Caravanners come together for pot luck dinners to plan events for the good seasons.

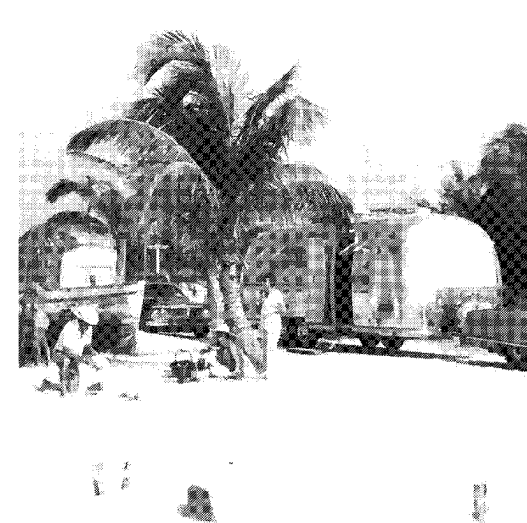
Since the first Wally Byam Caravan in 1951, 120 Airstream Caravans have gone to most parts of the world. Caravans to Canada and Mexico are now so popular that there are several each year. Many a lifelong friendship was started on these trips. Old-timers and new owners share experiences and find a new kind of fellowship, and there is no better way to learn to use your Airstream. Caravanners enjoy many advantages: the security of traveling in a group, planned entertainment and exceptional sightseeing opportunities. The prestige and good will established over many years by our Caravans adds further benefit to Caravanner membership.

The "**Caravanner**" is the Airstream publication and the "**Blue Beret**" is the official



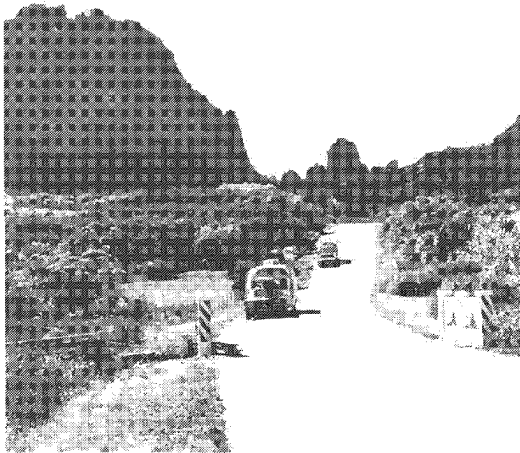
Caravan Club publication. The "Caravanner" is for general distribution to owners and prospective buyers, while the monthly "Blue Beret" is for WBCCI members only.

Several months before a Caravan rolls, the "Caravanner" and the "Blue Beret" publish a description and a registration coupon. Everyone who registers receives a detailed bulletin with complete information on the caravan. When going abroad, all official matters such as insurance, tourist cards and border crossing formalities are handled for you by the Caravan staff. On every Airstream Caravan, the route is carefully planned, and a day by day itinerary, including mail stops, is given to all Caravanners in advance. Our staff also makes all the arrangements for parking, entertainment, tours, etc. well ahead of the



starting date. Airstream Caravan Programs always take caravanners of all ages into account. Airstream provides the Caravan Staff: a leader, a recreation advisor, a service representative and an advance representative. This staff is backed by committees composed of interested Caravan members who assist in the day-to-day operations.

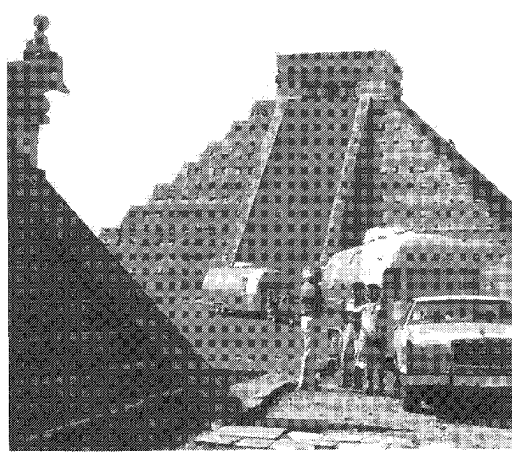
Wally Byam, pioneer trailer traveler, and founder of the Airstream Company, was born on July Fourth and the first **International Rally** was in the form of a huge birthday party for him at Bull Shoals, Arkansas. It was patterned after the International Rallies in Europe which Wally and his wife Stella had attended for many years. Everyone enjoyed this first big rally so much that the club decided to make it an annual event. Since then, International



Rallies have grown and grown. Some 3949 Airstream Travel Trailer families recently gathered at Ames, Iowa, for the 1978 International Rally.

Only Airstream Wally Byam Caravanners and WBCCI members are entitled to have an official **Trailer Number** and be listed in the 1979 **Annual Directory**. This directory contains a schedule of all major WBCCI activities and Airstream Wally Byam Caravans and Rallies for the year. It also lists such things as Freewheelers Club membership, C.B. Radio and Amateur Radio Club memberships and call signs, members who offer courtesy parking, and a complete list of Authorized Service Centers.

Along with the fun, Airstream owners recognize the need for better legislation, more



and better overnight parking facilities, more sanitary stations and other travel conveniences.

They are alert to adverse bills governing travel trailers and have achieved much through the actions of the strong **WBCCI National Legislative Committee**.

The Way of Life Department, of the Airstream Company dedicates its full time staff to improving the owners' fun and makes use of all the information and experience gained by owners over the years to help develop even better Airstreams and Way of Life programs for the enjoyment of all Airstream owners.

Become part of the Airstream Way of Life. Join our WBCCI activities and we believe you will enrich your life. Owners join



through a local unit of WBCCI. All operate autonomously, elect their own officers and fix their own dues. Annual International dues are paid with the unit dues at the time of application. These are at present: International dues, \$7.50 per trailer and unit goes from \$1 to \$11. If you are interested, please write to the following address for information regarding units in your area:

WBCCI Headquarters Office
15939 Piuma Avenue
Cerritos, California 90701

Warranty and Service

Airstream offers the most complete and explicit warranty in the industry. Your valuable limited warranty covers every item in your trailer (except tires and battery) against failures resulting from defects in either material or workmanship for two years from date of original purchase.

Please read the facsimile limited warranty carefully. As soon as the factory has received your signed check-out and acceptance sheet, a formal limited warranty is issued to you, together with an owner's identification card. As soon as you receive your limited warranty, please attach it over the facsimile for safekeeping. **In order to qualify for service without charge under the Airstream Limited Warranty Program, your owner's identification card or authorization for Interim Warranty must be presented to the service representative.**

The Airstream Certified Performance Checkout, or C.P.C., is an exclusive Airstream program. Before leaving the factory, each and every vital part of an Airstream is tested for performance. Each test is signed and certified by an inspector. After the Airstream arrives on your dealer's lot, all of these vital parts and systems are again tested. When you take delivery of your new Airstream, a factory trained trailer expert personally gives you a complete check-out on the trailer.

C.P.C. does not stop here. After you have traveled with your Airstream for 1000 miles (or 60 days, whichever comes first) you can make an appointment with any one of the 156 Airstream dealers or service centers for

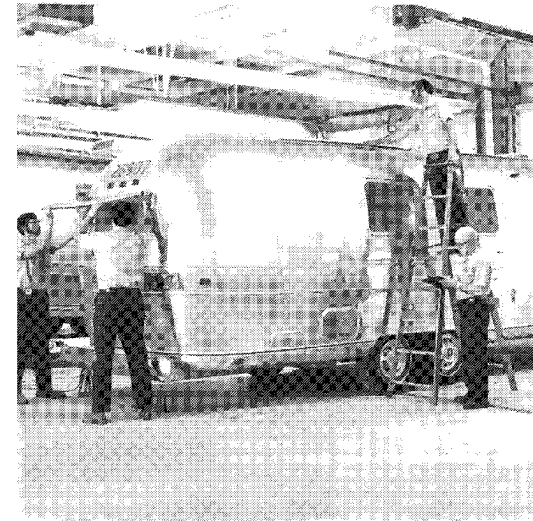
still another check-out of your trailer. At that time, a specified list of performance checks on your trailer equipment will be conducted and any deficiencies you have experienced since taking delivery will be corrected. Give the C.P.C. card overleaf to the dealer when you take your Airstream for the 1000 mile check.

Please contact your dealer if you need service. Major service under your Airstream Limited Warranty is available through our nationwide network of factory trained specialists at Airstream Certified Dealer Service Centers listed on pages 8-12 of this manual. **All centers operate on an appointment basis for the utmost efficiency.** When you require service from the Airstream factory or a certified service center, please contact the service manager for an appointment, and kindly inform him if you are unable to keep the appointment date or wish to change it.

Airstream factory service may be arranged by contacting the service manager at:

Airstream
15939 Piuma Avenue
Cerritos, California 90701
(213) 860-4411

Airstream
Jackson Center, Ohio 45334
(513) 596-6111



Please place your Registered Warranty over this Facsimile with the folded edge on top. There is a glue strip on the back for this purpose.

AIRSTREAM LIMITED WARRANTY

When you buy a new Airstream Travel Trailer from an authorized dealer, Airstream warrants to you that, except for tires and battery, it will pay for the repair or replacement of any part of your trailer or any component equipment installed by the factory that is defective in material or workmanship. This warranty extends for a period of two (2) years from the date of original purchase.

All that we require is that you use your trailer in a normal manner and properly maintain and service all component parts requiring scheduled maintenance, and that all repairs and replacements be made by the Airstream factory or any Airstream Certified Dealer Service center. Any warranty defect will be corrected without cost upon return of the trailer, or defective part, to the Airstream factory or Airstream Certified Dealer Service center.

All warranties of merchantability and fitness for a particular purpose, whether written or oral, express or implied, shall extend only a period of two (2) years from the date of original purchase. There are no other warranties, which extend beyond those described on the face hereof and expressly excludes conditions resulting from normal wear, accident, abuse, exposure or overload. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. Airstream will not be responsible for any consequential damages incurred as a result of any defect. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For additional information regarding your Airstream Limited Warranty, refer to the materials entitled "Explanation of Airstream Limited Warranty" provided with this warranty.

AIRSTREAM®

Ohio Factory: 177 West Church Street, Jackson Center, Ohio 45334
California: 15939 Piuma Avenue, Cerritos, California 90701

Explanation of Airstream Limited Warranty

The Airstream Limited Warranty applies for a period of two (2) years from the date of original purchase, and the applicable date of all warranties is that indicated on the owner's I.D. card. (Owner's identification.) Warranty defects (except tires and battery) will be corrected without cost upon the return at the owner's expense of the trailer or defective part to the Airstream factory, Airstream Certified Dealer Service Center, or participating Argosy Certified Dealer Service center.

The Airstream axle is manufactured to a tolerance of 1° camber and 1/8" toe-in. These tolerances will only change if the trailer is subjected to abuse, such as dropping off a sharp berm, striking a curb, or hitting a deep hole in the road. Such damage would be considered as resulting from an accident which risks are not covered under the warranty. Abnormal tire wear and/or wheel alignment resulting from such damage is not covered under the terms of the warranty.

The tire and battery warranties will be handled by their respective service points and according to their written policy.

Caution: Your Airstream may be equipped with the optional Excella-Vac brake system which brings all of the advantages of full disc braking to travel trailers. It is extremely important to note, however, that Excella-Vac uses an entirely different system for controlling brake operation. It is not compatible in any way with the old electric brake control system. If you do not use the control system designed for use with the Excella-Vac disc brakes, the terms

of your Airstream Limited warranty will be voided with respect to any damages incurred as a result of the use of a non-compatible system. In addition, many advantages of the exclusive Airstream disc brakes will be lost if the Excella-Vac control system is not used.

Inasmuch as this warranty covers defective material and/or workmanship, adjustments and checking are excluded. All adjustments are made at the factory prior to shipment, and rechecked by the dealer prior to delivery to the customer. An additional check-up, including adjustments, is given at the 1,000 mile or 60 day inspection. Adjustments thereafter become a customer responsibility.

Each Airstream exterior (not including the underside) is sprayed with a plastic coating material to prevent oxidation. This application is covered by the two year warranty against peeling. Prolonged exposure to salt air or industrial fall-out will permit penetration through the coating material, causing damage to the exterior metal. Since Airstream has no control over these conditions, it is necessary for the owner to wash his trailer as instructed in the Owner's Manual.

Damage to enameled or porcelain surfaces resulting from abrasion or blows is the result of accident or abuse, and is not covered by warranty. Window glass breakage, and what is termed by the automotive industry as "mysterious explosions," although not covered under this limited warranty, is covered by the comprehensive clause of most insurance policies.

This limited warranty does not include failure caused by accident, abuse, normal wear, overload, or any cause not attributable to a defect in original material or workmanship of the trailer or component equipment as installed by the factory.

Exclusions:

1. Normal Wear.

Items such as tires, water heater flints, water purifier packs, curtains, upholstery, floor coverings, window, door and vent seals will show wear or may even wear out within the two year warranty period depending upon the amount of usage, weather, and atmospheric conditions.

2. Accident.

We can all recognize damage caused by accident because it is visible, and we strongly urge our dealers and customers to inspect the trailer upon receipt of delivery for any damage caused by accident while being delivered to the dealer, or while it is on the dealer's lot. Damage of this nature becomes the dealer's or customer's responsibility upon acceptance of delivery, unless Airstream is notified and the damage is verified by the person making the delivery.

3. Abuse.

Lack of customer care and/or improper maintenance will result in early failure for which Airstream cannot be held responsible.

4. Exposure.

Not unlike a car, the steel parts of a trailer can and will rust if subjected to prolonged exposure to moisture, salt air, or

corrosive air-borne pollutants without repainting. Aluminum oxidizes when unprotected under similar conditions, and refinery chemicals of a sulfurous nature are harmful to finishes if not washed off periodically. Extremely hot or direct sunlight will deteriorate rubber and fade curtains and upholstery. Conditions of this nature, although they may be normal for the area, are beyond Airstream's control and become the responsibility of the owner.

One other type of exposure is that resulting from an accident, rain or plumbing leak. Although it is our obligation to correct a rain or plumbing leak within the terms of the limited warranty, it is the owner's responsibility to use reasonable, prudent care to minimize foreseeable secondary damage, such as a delaminated floor, stained upholstery, carpeting, drapes, etc.

5. Overload.

Damage due to loading, either beyond capacity or to cause improper towing because of improper balance, is beyond Airstreams' responsibility. The Airstream trailer is engineered to properly handle the gross vehicle load rating on the certification label. Load distribution has a definite effect upon the towing characteristics and attitudes of the trailer. Level hitch installations are a necessity, and very important on a tandem axle trailer. There are limits to the amount of load that can be safely transported depending upon speed and road conditions, and reasonable cause to believe these

factors have been exceeded could void the Airstream warranty. For additional information on the loading of your trailer, consult your Owner's Manual or gross vehicle weight rating plate.

Airstream will not be responsible for any consequential damages incurred as a result of any defect. Consequential damages include, but are not limited to, travel expenses, gasoline, oil, lodging, meals, telephone tolls, loss of work and loss of use of the trailer.

In the event of a warrantly defect, the warranty holder should take corrective action to lessen damages which might result from such defect. Airstream will not be responsible for resulting damages which could have been avoided.

The full extent of Airstream's warranty is set forth in the "Airstream Limited Warranty" and this "Explanation of Airstream Limited Warranty." Airstream will not be responsible for additional representations or implied warranties made by any of its dealers to the extent those representations are not a part of, or are contrary to, the terms and conditions of the Airstream Limited Warranty and Explanation of Limited Warranty.

If you believe your trailer needs repairs under the terms of the Airstream Limited Warranty, you should contact the Service Manager at the Airstream factory, Airstream Certified Dealer Service center or participating Argosy Certified Dealer Service center. The trailer or defective part must be returned to the factory or authorized service center at the owner's expense.

This limited warranty is transferrable to subsequent owners for the duration of the warranty period. Warranty transfer application forms are available from your dealer or the Airstream factory.

The Authorization for Interium Airstream Warranty Card is located on the back cover fold-in flap.

Certified Service Centers

ALABAMA

Alabama Auto Carriage Inc.
2359 West Fairview
P O. Box 2763
Montgomery Alabama 36105
205-262-3563 or 262-3564

R & S Camper Sales
2405 Jordan lane
Huntsville, Alabama 35806
205-837-5241

ARKANSAS

Fred and Jack Trailer Sales
10318 New Benton Highway
I-30 West
Little Rock, Arkansas 72209
501-565-0131

ARIZONA

Robert Crist & Company
2025 East Main Street
Mesa, Arizona 85203
602-834-9410

Robert Crist & Company
8833 North Black Canyon Hwy
Phoenix, Arizona 85021
602-944-2288

CALIFORNIA

Adventure Recrcational Vehicles
5810 S. Union Avenue
Bakersfield, California 93307
805-831-5451

Caswell's Vacation Vehicies
700 East Foothill Boulevard
Pomona, California 91767
213-331-0163

Coastline Trailer Sales
303 North Ventura Avenue
Ventura, California 93001
805-648-1772

Holiday Trailer Sales
770 East Baseline
San Bernardino, California 92410
714-889-8918

Highway 17 Trailer Sales
175 Curtner Ave.
Campbell, California 95008
408-377-8500

Manteca Trailer Sales
9862 E. Yosemite Avenue
Manteca, California 95336
209-239-1267

Nelson's RV Enterprises, Inc.
28001 Mission Boulevard
Hayward, California 94544
415-582-9433

Norm Reeves, Inc.
D.B.A. Haller Trailer Sales
15711 S. Lakewood Blvd.
Paramount, California 90723
213-634-3553

Pulmobile Trailer Sales
4563 San Fernando Road
Glendale, California 91204
213-241-0310 or 245-6068

Ralph's Trailer Sales and Supply
1025 East Main
El Cajon, California 92021
714-442-4435

Santa Rosa Airstream
3534 Santa Rosa Avenue
Santa Rosa, California 95401
707-525-8330

Toscana Recreation Center
617 W. Pacheco Boulevard
Los Banos, California 93635
209-826-4923

Easy Livin' Country RV Center
1650 El Camino Avenue
Sacramento, California 95815
916-929-2200

COLORADO

Chisman Trailer Sales
2500 East Boulder Street
Colorado Springs, Colorado 80909
303-473-7043

Trailerland
8200 W. Colfax Avenue
Denver, Colorado 80215
303-237-9591

Trailerland
2515 E. Mulberry Street
Ft. Collins, Colorado 80521
303-492-3676

Trailerland
Dale Broome Inc.
2496 U.S. Highway 6 & 50W
Grand Junction, Colorado 81501
303-243-1284

CONNECTICUT

A-1 Trailer and Motorhome Sales
Route 66 & Jackson Hill Road
Middlefield, Connecticut 06455
203-344-0338 or 334-0339

DELAWARE

Marty's Travel Trailers, Inc.
2343 South DuPont Highway
Dover, Delaware 19901
302-697-3173

FLORIDA

General R.V.
5610 Okeechobee Road
West Palm Beach, Florida 33406
305-686-3707

Airstream by General
1881 St. Rd 84
Ft. Lauderdale, Florida 33315
305-525-3374

Bell's Trailer Park and Sales, Inc.
6401 W. Tennessee St. Hwy 90W
Tallahassee, Florida 32304
904-576-2915

Camptown USA, Inc.
23905 SW 132nd Avenue
6 mi. S. of Perrine on US 1 at Princeton
Miami, Florida 33032
305-245-2353

Carpenter's Campers, Inc.
8450 Pensacola Boulevard
US 29 North, Between 1-10 & 90
Pensacola, Florida 32504
904-477-6666

Fallin Camper Sales, Inc.
100 Edgewood Avenue, S
Jacksonville, Florida 32205
904-783-0630

Indian River RV Sales, Inc.
5855 US Highway 1
Between Cocoa and Titusville
Cocoa, Florida 32922
305-636-1422

Kropf Eldorado, Inc.
6915 14th Street West
US 41, S.
Bradenton, Florida 33507
813-755-1586

C. J. Stoll, Inc.
5985 34th Street, North
US 19
St. Petersburg, Florida 33714
813-527-2189

Heintzelman's Motor Coaches of Orlando
1080 E. Hwy 436
Altamonte Springs, Florida 32701
305-831-4442

GEORGIA

Three-Way Campers, Inc.
1660 Cobb Parkway, N.W
Marietta, Georgia 30062
404-422-9300

IDAHO

Wheels Unlimited
4498 Yellowstone
Pocatello, Idaho 83201
208-237-8800

Wheels Unlimited
6715 W. State
Boise, Idaho 83703
208-336-8970

ILLINOIS

Crystal Valley, Inc
4220 Northwest Highway
US 14 at Route 31
Crystal Lake Illinois 60014
815-459-6611

Four Winds of America, Inc
U.S. 51 N, RR #1
Maroa, Illinois 61756
217-794-2292

Rocket Trailer Sales
528 W Route 30
Rock Falls, Illinois 61071
815-625-6245

Wilderness Lake Campground, Inc
Route #2
Martinsville, Illinois 62442
217-279-3396

INDIANA

Berning Trailer Sales, Inc.
5220 New Haven Avenue
Fort Wayne, Indiana 46803
219-749-9415

Four Seasons Trailer Sales, Corp.
8225 W Washington Street
Indianapolis, Indiana 46231
317-241-8348

Mid-West Trailer Mart, Inc.
2409 Corydon Pike
New Albany, Indiana 47150
812-945-1173

IOWA

Barrows Camp-O-Rama
1912 Washington Boulevard
Camanche, Iowa 52730
319-259-8391

Ace Fogdall, Inc.
5424 University Avenue
Cedal Falls, Iowa 50613
319-277-2641

Imperial RV Center
1727 South Ankeny Blvd. Hwy 69
Ankeny, Iowa 50021
515-964-1424

KANSAS

Scholfield Winnebago, Inc.
11516 East Kellogg
Wichita, Kansas 67207
316-684-0236

KENTUCKY

Crouch Campers & Trailers
5081 Reidland Rd., Route 4
Highway 62 - 68 S.E
Paducah, Kentucky 42001
502-898-7373

Murphy Sales Company, Inc.
Winchester Road (US 60W)
Box 404
Mt. Sterling, Kentucky 40353
606-498-1168

LOUISIANA

Camper Village, Inc.
705 Florida Boulevard, S.W
Denham Springs, Louisiana 70726
504-664-7104

Superior Pontiac GMC, Inc.
200 Wright Avenue
Gretna, Louisiana 70053
504-368-5640

MARYLAND

B & J Trailer Sales
Box 369, US Route 40
Aberdeen, Maryland 21001
301-575-6840

Koons Ford of Annapolis, Inc.
2540 Riva Road
Annapolis Maryland 21401
301-224-2100

MASSACHUSETTS

Donahue's Trailer Sales
88 Mountain Road, Box 126
Off Route 128 at Exit 41 S
Burlington, Massachusetts 01803
617-272-9830

MICHIGAN

Bay Valley RV Center
2717 Delta Road, RR #4
Bay City, Michigan 48706
517-684-0930

Caswell and Company
243 South Dexter
Ionia, Michigan 48846
616-527-3310

Ewing Trailer Sales
4251 W Columbia Avenue
Battle Creek, Michigan 49017
616-965-0597

Kolbe Trailer Sales
4401 East Eight Mile Road
Warren, Michigan 48091
313-536-0265 or 754-8310

Moore's Recreation
1222 E. North Territorial Road
U.S. 23 5 miles N. Ann Arbor Exit 49E
Whitmore Lake, (Ann Arbor) Mich 48189
313-662-4548

Northwoods Recreational Vehicle Ctr
G-6369 North Dort Highway
Mt. Morris, Michigan 48458
313-686-4330

Woodland Travel Center, Inc.
5190 Plainfield Road
Grand Rapids, Michigan 49505
616-363-9038

MINNESOTA

Hart Trailer Sales
Highway 71
Long Prairie, Minnesota 56347
612-732-6106

Minnesota Trailer Sales, Inc.
11350 Highway 65 N.E.
Blaine, Minnesota 55434
612-757-1420

Rochester RV Center
Airport Overpass & Highway 63S, Rt. 2
Rochester, Minnesota 55901
507-285-9102

MISSOURI

Kansas City Trailer Sales, Inc.
11530 South 71 Highway
Kansas City, Missouri 64137
816-761-3322

Bill Thomas Camper Sales, Inc.
5217 N. Lindbergh, Boulevard
Bridgeton, (St. Louis) Missouri 63044
314-731-2217

MONTANA

Big Sky Airstream
1923 Old Hardin Road
Billings, Montana 59101
406-259-5571

Bretz Trailer Sales
1023 Kensington
Missoula, Montana 59801
406-543-5721

NEBRASKA

Autosport RV Center, Inc.
6101 "L" Street
Omaha, Nebraska 68117
402-734-1133

NEVADA

"95" Recreational Vehicle Center
3105 E. Sahara Avenue
Las Vegas, Nevada 89104
702-457-5544

NEW HAMPSHIRE

Ray's Marina & RV Sales, Inc.
Route #16
Milton, New Hampshire 03851
603-652-4523

NEW JERSEY

Airstream by Angel
Route 78 & 173 Interchange
Box 94
Bloomsbury, New Jersey 08804
201-479-4118

South Jersey Travel Trailer Center, Inc.
Route 47 and Leonard Cake Rd.
Franklinville, New Jersey 08322
609-694-1700 or 694-1701

NEW MEXICO

Wayne's Recreational Vehicles, Inc.
12020 Central Ave., S.E.
Albuquerque, New Mexico 87123
505-296-0507

NEW YORK

Bailey-Momot, Inc.
RR 1, Box 316
Plattsburgh, New York 12901
518-563-2440 or 563-2441

Ballantyne Trailer City, Inc.
7447 Route 96
Victor, New York 14564
716-924-3264

Ralph Bubbs Sport Center
RD 5, Route 57
Fulton, New York 13069
315-695-5020

Maroone Family Travel Center, Inc.
2550 Walden Avenue, Exit 52
E from NY Thruway
Buffalo, New York 14225
716-681-1700

Niblack Trailer Sales
691 McLean Avenue
Corner NY Thruway
Yonkers, New York 10704
914-965-5685

O'Malley Enterprises, Inc.
Traffic Circle - Route 9 & 7
P.O. Box 116
Latham, New York 12110
518-785-6654

Walker's Four Seasons, Inc.
Route 17, Box 265
Big Flats, New York 14814
607-562-8731

NORTH CAROLINA

College Park
4208 New Bern Avenue
Raleigh, North Carolina 27610
919-833-7015

College Park
North Church Street Extension
U.S. 301 and 301A North
Rocky Mount, North Carolina 27801
919-446-7166 or 446-9233

Hawley's Cycle and Camping Ctr., Inc.
4784 Raeford Road
Fayetteville, North Carolina 28304
919-425-3145

Out of Doors Mart, Inc.
I-40 at Sandy Ridge Road Exit
Drawer 799
Kernersville, North Carolina 27284
919-993-4518

Tracy Trigg Trailers
5226 Independence Blvd
P.O. Box 12522
Charlotte, N.C. 28205
704-537-7844

NORTH DAKOTA

McLaughlin Equipment Co.
320 27th Street, South
Fargo, North Dakota 58102
701-237-6046

OHIO

Avalon R.V. Center, Inc.
11761 Portage Road
Canal Fulton, Ohio 44614
216-854-2222

Buckeye Airstream Service & Sales, Inc.
9140 Hazelton - Etna Road, Box 13
N. of E. I-70 on 310 at Rt. 40
Etna, Ohio 43018
614-861-6389

Coachmen Camping Center
410 East Sandusky Street
Findlay, Ohio 45840
419-423-1912

Jerry Greer Airstream Argosy, Inc.
4855 Groveport Road
Columbus, Ohio 43207
614 491 8544

H & H Recreational World, Inc.
Box 108, 8527 N. County Road 25A
Piqua, Ohio 45356
513-773-2212

Murphy Travel Trailers of Ohio, Inc.
11526 Chester Road
3 Doors N. of Windjammer
Cincinnati, Ohio 45246
513-771-5771

Frank B. Ricketts Travel Trailers
P.O. Box 683
I-77 at US 40
Cambridge, Ohio 43725
614-432-4040

Teynor's Mobile Home Center, Inc.
3884 SR 4
Bucyrus, Ohio 44820
419-562-8827

OKLAHOMA

Brassfield Travel Trailers
7227 N.W. 39th Expressway
Bethany, Oklahoma 73008
405-789-4941

Travel Home Sales, Inc.
16015 E. Admiral Place
Tulsa, Oklahoma 74138
918-437-0020

OREGON

Cascade Trailer Sales
1876 Highway 99, North
Eugene, Oregon 97402
503-688-8505

Spencer's RV Center, Inc.
9341 S.E. 82nd Avenue
Portland, Oregon 97266
503-777-1484

PENNSYLVANIA

Farnsworth Camping Center, Inc.
Route 54
Elysburg, Pennsylvania 17824
717-672-2332

Glasgow Recreational Vehicles, Inc.
1650 Lincoln Way East
Chambersburg, Pennsylvania 17201
717-264-9551

Robison Trailer Sales
Route 198 at Blooming Valley
R.D. #3
Meadville, Pennsylvania 16335
814-724-8129

Trav-L-Homes
Lewis Road
Royersford, Pennsylvania 19468
215-948-5900

Turner Airstream Sales
472 Lincoln Highway W., Adamsburg
Jeannette, Pennsylvania 15644
412-523-6545 or 523-6546

Wise Trailer Sales
Division of F. W. Wise Gas Co.
1501 Airstream Way
Clearfield, Pennsylvania 16830
814-765-7801

Wiles Trailer Sales
1030 North Main Street
Route 8 & 422
Butler, Pennsylvania 16001
412-287-4745

RHODE ISLAND

Arlington Trailer Sales
966 Quaker Lane, Route 2
Warwick, Rhode Island 02818
401-884-7550

SOUTH CAROLINA

Dixie Lee Trailer Sales
Highways US 1 & 78
P.O. Box 306
Clearwater, South Carolina 29822
803-593-2162

SOUTH DAKOTA

Spader Camper Center
5500 North Cliff, Box 963
Sioux Falls, South Dakota 57101
605-339-3230

TENNESSEE

Cuilem & Maxey Camping Center
Music Valley Drive
2 Miles North of Opryland
Donelson (Nashville), Tennessee 37214
615-889-1600

Jewell's Camping Center
Route 4, Highway 45
Trenton, Tennessee 38332
901-855-9590

Bobby Jones Trailer Sales
4222 James Road (In Raleigh)
Memphis, Tennessee 38128
901-386-5833

Murphy Motor Homes
3163 Airport Highway
Alcoa, Tennessee 37701
615-984-2380

TEXAS

A & A Trailer Sales
118 Arnold Boulevard
Abilene, Texas 79605
915-692-1555

D & M Trailer Sales, Inc.
3900 I-40 East
Amarillo, Texas 79103
806-374-1211 or 374-3789

Lloyd's Trailer Sales, Inc.
350 Twin City Hwy.
Port Neches, Texas 77651
713-727-1666

Abbott Trailer Sales
408 Avenue Q
Lubbock, Texas 79401
806-763-4747

Land Yacht Trailer Sales, Inc.
4616 Titanic Avenue
El Paso, Texas 79904
915-751-0591

Bear Trailer Sales
South of Dallas on I-35
Bear Creek Road Exit
Lancaster, Texas 75146
214-223-6025

South Texas Trailers & Supplies
Highway 77 S, P.O. Box 880
Sinton, Texas 78387
512-364-1118

South Texas Trailers & Supplies
11210 Interstate 35N.
San Antonio, Texas 78233
512-653-4161

South Texas Trailers & Supplies
101 Expressway 83
P.O. Box 457
Donna, Texas 78537
512-464-3432

UTAH

B & K Sales
3371 S. State
Salt Lake City, Utah 84115
801-466-5501

VIRGINIA

James River Camper Sales, Inc.
Box 834, US 460E
Lynchburg, Virginia 24505
804-845-6127 or 846-7444

Poquoson Motors, Inc.
4116 West Mercury Blvd.
Hampton, Virginia 23666
804-826-1100

Koons Pontiac-Oldsmobile, Inc.
7105 Sudley Road
Manassas, Virginia 22110
703-631-9500

Travel Trailers of Va.
2211 South Main Street
P.O. Box 1089
Harrisburg, Virginia 22801
703-434-9676

WASHINGTON

Central Trailer Exchange, Inc.
14433 Pacific Highway South,
P.O. Box 68425
Seattle, Washington 98168
206-244-9600

Devon Lee R.V. Center
11257 Kirkland Way, P.O. Box 464
Kirkland, Washington 98033
206-822-2211

Al Lundgren Traveland
P.O. Box 2949
Yakima, Washington 98903
509-248-4700

Tveten Motor Company
45th and Pacific Avenues
Tacoma, Washington 98408
206-472-1600 or 472-7112

Spokane Travel Center
N. 216 Dyer Road
Spokane, Washington 99206
509-535-3675

WEST VIRGINIA

Airstream by Stanley
1400 N. Eisenhower Drive
Box 1545
Beckley, West Virginia 25801
304-252-6121

Don's Travel Trailers, Inc.
459 Winfield Road
St. Albans, West Virginia 25177
304-727-2153

WISCONSIN

Motor Vacation Unlimited of Wisconsin
Route 2, Box 201
Edgerton, Wisconsin 53534
608-884-3396

Sweet Trailer Sales
US 2 and US 51
Hurley, Wisconsin 54534
715-561-4887

WYOMING

Bundy's Marine and Ski
3201 CY Avenue
Casper, Wyoming 82601
307-237-2509

CANADA

Barber Motors, Ltd.
19 2nd Street
Weyburn, Saskatchewan
306-842-5421

Can-Am Trailers Ltd.
Box 370
Hwy 4, ½ mile N. 401, Exit 19
Lambeth, Ontario N6L 1S0
519-652-3284

Claynor Trailer Sales
4053 208th Street
Langley, B.C. V3A 2H3
604-530-9141

Go Camping Limited
Route #4, Highway 7
Brampton, Ontario L6T 3S1
416-794-0031

Maunce Gareau, Inc.
7965 Henri-Bourassa E. Blvd
Montreal, Quebec H1E 1N9
514-321-7933

Kanata Trailer Sales
Div. of K. Dilawri Automobiles, Inc.
Highway 7, Box 900
Stittsville, Ontario
613-836-1421

Pik-A-Dilly Trailer and
Marine Sales Ltd.
34th Street & Victoria Avenue
Brandon, Manitoba R7B 0M0
204-728-8570

Totem Trailers, Ltd.
1035 Howard Road
Burlington, Ontario
416-632-0703

Twin City Trailer Sales, Ltd.
Dartmouth Highway, Box 395
Bedford, Halifax Co., Nova Scotia B0N 1B0
902-835-8375

Travel Trailers Western, Ltd.
5934 104th Street
Edmonton, Alberta T2N 2K3
403-434-6555 or 434-6939

Wally Byam Stores

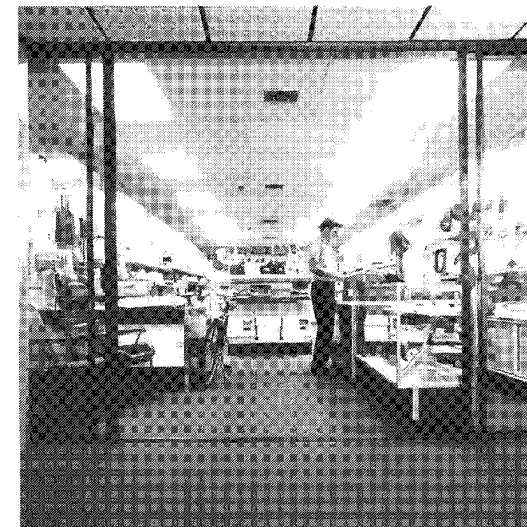
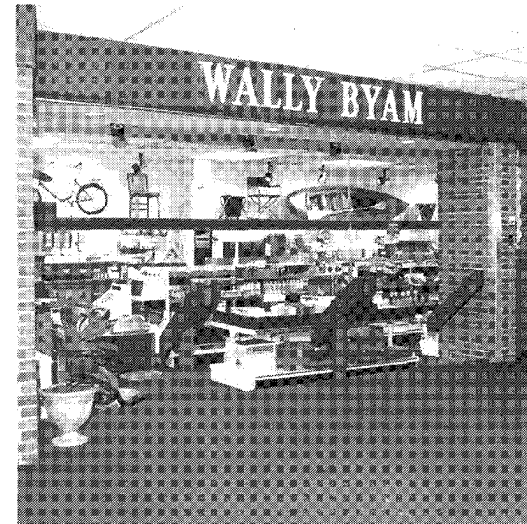
To make trailering more enjoyable, there are Wally Byam Stores established at the majority of Airstream dealers. All Airstream dealers have the opportunity of purchasing for you the necessary equipment which would enable you to enjoy your new Airstream trailer to the utmost. The Wally Byam Stores authorized dealerships stretch from coast to coast, and these dealers stock hundreds of items which are tested and approved by travel experts. Be sure and get a Wally Byam Stores Catalog from your dealer or write to:

Wally Byam Stores

Ohio Building
P.O. Box 128
Sidney, Ohio 45365

The following is a list of equipment we recommend:

1. First Aid Kit
2. Flashlight
3. Emergency Road Warning Triangle
4. Handi-Roll Trailer Tool File – with small hand tools – hammer, pliers, crescent wrench, screwdrivers, electrical tape
5. Crosstye Lug Wrench for Trailer Wheels
6. Pop Rivets (3 sizes)
7. Pop Rivet Gun
8. Battery Booster Cables
9. Tire Gauge (up to 100 pounds P.S.I.)
10. Hitch Ball Lube
11. Small Bi-Directional Spirit Level
12. Heavy-Duty Turn Signal Flasher
13. Four Stabilizing Jacks
14. Leveling Ramps
15. Wheel Chocks
16. Spare Tire and Wheel for Single Axle Trailers
17. One 50 ft and one 25 ft length of $\frac{5}{8}$ " High Pressure Water Hose
18. Y-Connection with Cap
19. 5 Gal. Water Jug
20. Quick Disconnect Garden Hose Coupling
21. One 10 ft or 20 ft Sewer Hose
22. One Thetford Sewer Hose Adapter – Straight or Elbow
23. One Elbow Sewer Hose Outlet
24. Two $2\frac{1}{2}$ " to $3\frac{3}{4}$ " Adjustable Hose Clamps
25. One Thetford Plastic Cap with Hose Drain
26. One $\frac{1}{2}$ Gal. Holding Tank Cleaner and Deodorizer
27. 50 ft Electric Cord #12-3 wire
28. 20 ft Electric Cord #10-3 wire, 30 amp capacity
29. One Service Cord Adapter 30-15 amp
30. Spare 20, 40, and 50 amp Cartridge Fuses
31. Spare Light Bulbs (see page 95 for sizes)
32. Electrical Contact Cleaner (Spra-Kleen)



Tow Car Equipment

If you plan to buy a new car to tow your Airstream, we suggest that you include in your purchase the trailer towing options offered by most automobile manufacturers. These include such things as a heavy duty alternator and radiator, heavy duty springs and shock absorbers, automatic transmission cooler, heavy duty fan and flasher unit and others, depending on the make of the vehicle.

Transmissions may be manual or automatic, but an automatic transmission may prolong your car's engine life and generally does a better job of controlling engine loads than the average driver using a manual shift.

Having adequate power is very important when considering the purchase of a new car or the trailer towing capability of your present one. Emission controls that are required by the Federal Government have reduced overall engine power. To determine generally what the tow capability of your car is, divide the total weight of your trailer by the cubic inch displacement of your automobile engine. This ratio should be between 10 and 20 pounds of trailer weight per cubic inch of engine displacement. For example, with a 31' Airstream weighing 6500 pounds totally loaded for travel and a vehicle with 350 cubic inch displacement engine, divide 6500 by 350 giving a value of 18.5 pounds of trailer weight per cubic inch engine displacement. This vehicle could have adequate power for towing the trailer. Obviously, total car performance such as maximum speed up

grades and acceleration is lessened when towing a trailer. Remember that engine power is only one indication of the car's towing capabilities; the axle ratio and cooling capabilities certainly must be considered. We suggest you review the owner's manual of your present car and discuss your automobile towing capabilities with your Airstream dealer and your automobile dealer.

Inspect your vehicle's hitch regularly for loose bolts or nuts, cracked welds, loose ball mounts, worn parts, etc.

The majority of new trailerists carry more food and other supplies than really needed. Remember that every item you take along is one more thing to stow and adds weight to the total load you must pull. Consolidate items in shelves, lockers, and in the refrigerator. It is better to have one full and one empty locker than two half empty ones. Special care must be taken not to overload the front and rear ends of the trailer.

See tire section for correct tire sizes and pressures for your trailer and load on pages 29-30.

Electric Brakes

The Kelsey Hayes Brakes are operated by 12 volt current from your car and **must be hooked up so that you have an integral system with your car brakes.** To prevent problems and insure satisfactory braking action, install a Kelsey Hayes Controller (or equivalent) and selective resistor in line with the controller in your car.

A Kelsey Hayes Controller (or equivalent) installed in your car will synchronize the trailer brakes with your car brakes. It is designed to apply the trailer brakes with your car brakes.

The controller handle adjustment affects the rate of application of the trailer brakes. This adjustment has no bearing on the maximum braking capacity of the trailer brakes. Because of the wide variety of towing vehicles and trailers it is necessary to balance the trailer brakes with the towing vehicle brakes to provide for a safe, comfortable stop. This adjustment should be made to provide for a slight lead of the trailer brakes over the tow vehicle brakes. Turning the handle clockwise will decrease the rate of application of the trailer brakes, while counter-clockwise will increase the rate of application. When the desired setting is reached, the controller will hold the adjustment, but may be varied at any time by rotating the handle as described above. After this adjustment, there should be no sensation of the trailer pushing the car during a stop, nor should there be an excessive sensation of the trailer pulling the car during a stop.

A selective resistor to match the weight of your trailer to the controller should be installed on the fire wall of your engine compartment. It should be correctly adjusted during installation. However, if you wish to change the action of your brakes proceed as follows:

The selective resistor adjustment affects the maximum braking capacity of the trailer brakes. Because of the wide variety of axle loadings, the rated load capacity of the brakes may exceed the load on the trailer axle.

When a resistor is installed on the towing vehicle and a setting is made according to the chart on page 16, check the initial trailer brake application with the controller fully applied. If the setting is correct, the controller full "on" position should provide firm braking action just short of skidding on dry pavement. Follow the chart and change the setting to achieve greater or less braking, as required.

Due to normal brake lining wear, the brakes and the controller setting should be checked and readjusted, if necessary, during the trailer manufacturer's recommended inspection intervals. Normally, it is not necessary to reset the selective resistor unless there are major changes in the trailer loading. Note: Brake lining adjustment should be periodically checked (fully) to be sure trailer brakes are in the same adjustment as the automobile's.

Properly set, these adjustments will provide for safe comfortable stops. They will

also help assure optimum brake and tire life for both the tow vehicle and the trailer.

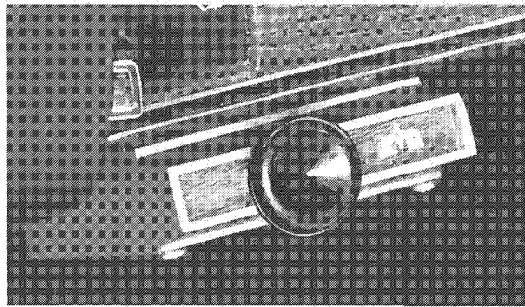
In the event of an accidental separation of the tow car and trailer, the break-away switch will set and lock the trailer brakes for a sufficient length of time to stop the trailer. The switch is activated when the small pin in the front of the unit is pulled out by the wire attached to it and to the car. **This pin should be pulled out, lubricated with light household oil and replaced every 90 days.**

To prevent corrosion within the break-away switch, pull the switch's pin straight forward and spray the inside of the switch through the hole with an electric contact cleaner (such as Spra-Kleen) and reinsert pin. A drop of light household oil on the groove near the base of pin will allow pin to operate freely. **When the trailer is connected to the tow car, the break-away switch loop should be attached to the permanent frame of your hitch.** When disconnecting trailer from tow car, remove wire loop from the frame, **do not remove pin from switch, because this will apply the trailer brakes. Caution: Do not use break-away switch for parking brake.**

We recommend that your brake system be checked and adjusted by a Certified Service Center. However, in emergencies, to adjust brakes:

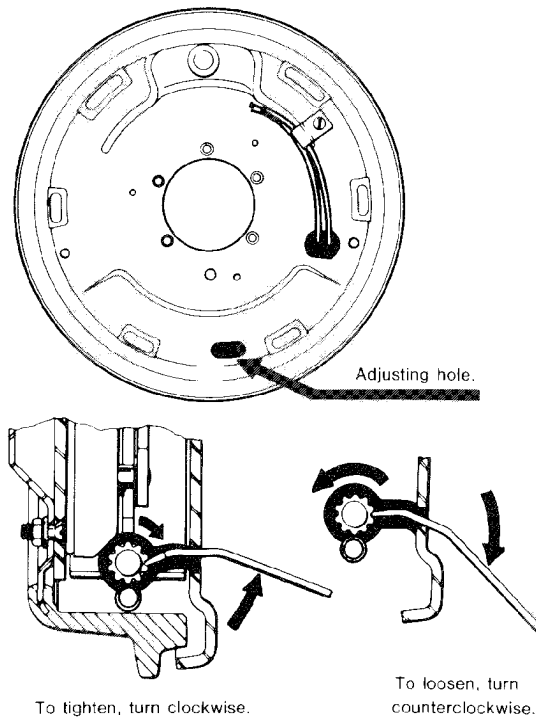
1. Remove the small rubber plug at the base of the backing plate on the brake drum.

2. Jack the wheel so that you can spin it by hand. Tighten the brakes (using a brake adjusting tool or a screwdriver that has been bent to a 90° angle) until the wheel is locked, then back off until you have a free spinning wheel, which will be approximately 8 notches.
3. Repeat this operation with all trailer wheels.



Trailer Brake Controller

Brake Adjustment



Selective Resistor Settings

All settings shown are for 12 volt tow car with 12 volt brakes, and trailers with 2 axle—4 brake arrangement

Model	Trailer Wt. (lbs.)
23 Ft.	4500-5200
25 Ft.	4500-5200
28 Ft.	4500-5200
23 Ft.	5200-5800
25 Ft.	5200-5800
28 Ft.	5200-6000
31 Ft.	5200-6000
25 Ft.	6000-6200
28 Ft.	6000-7100
31 Ft.	6000-7100

Hydraulic Disc Brakes

The optional **disc brake system** is operated by 12 volt negative ground current and engine vacuum from your tow vehicle. The brake controller and trailer disc brakes improve brake balance, braking control, reliability, and reduce brake fade from high speed stops or frequent brake application.

Disc brake components consist of a controller, power brake booster, brake release valve, disc brake calipers, and hub and rotor. Tow vehicle's and trailer's vacuum lines, brake hoses and brake lines should be checked periodically for abrasion and signs of leakage at fittings.

The **brake controller** (Fig 1), designed for use with your Excella-Vac disc brake system, must be installed in your tow vehicle for proper brake operation. **It is extremely important to note that Excella-Vac uses an entirely different system for controlling brake operation. It is not compatible in any way with the old electric brake control system. If you do not use the control system designed for use with the Excella-Vac disc brakes, the terms of your Airstream Limited warranty will be voided with respect to any damages incurred as a result of the use of a noncompatible system. In addition, many advantages of the exclusive Airstream disc brakes will be lost if the Excella-Vac control system is not used.** The brake controller is activated automatically when you apply the brakes of the tow vehicle. Trailer brakes may be applied manually, independent from your tow vehicle brake system, by

moving the controller's lever to the right.

A **trailer brake balance lever** located on the top of the controller provides adjustment to balance the trailer brakes with your tow vehicles' brakes without the need for a selective resistor. Balanced brakes provide smooth braking action without premature skidding of tires on either trailer or tow vehicle during heavy braking.

Move the balance lever away from you to increase or toward you to decrease the effectiveness of your trailer brakes. When first installed set the adjustment to the maximum setting, then reduce setting as required to obtain smooth braking.

There are **two indicator lights** on your controller. During brake application, the green light glows indicating normal system operation. The intensity of the green light increases as braking effort increases. A red light will glow if the brake electrical wiring is faulty. Loss of electrical input to your controller will be indicated by neither light glowing when brakes are applied.

Do not use a selective resistor.

A **vacuum line assembly** furnished in your disc brake tow vehicle kit must be installed in your tow vehicle, which provides vacuum to the power brake booster assembly located on your trailer. (See Fig. 2) Vacuum is supplied to the trailer by coupling the trailer vacuum hose to the tow vehicle

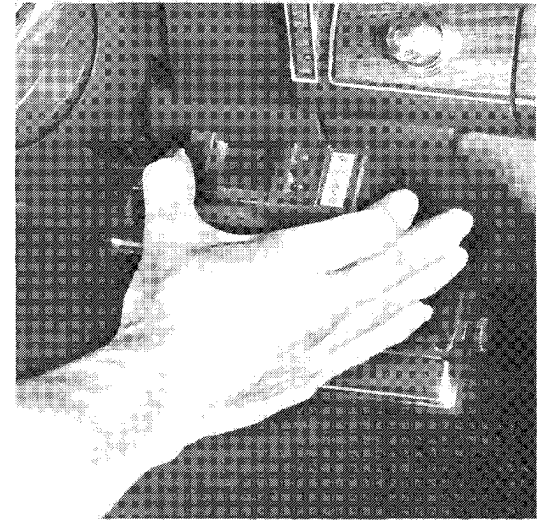


Fig. 1 – Brake Controller

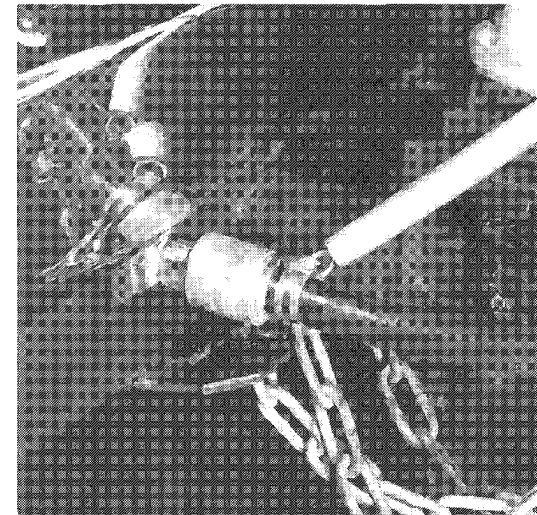


Fig. 2 – Trailer Vacuum Hose Connection

vacuum connector. To couple, push knurled coupling sleeve forward, firmly insert trailer's vacuum hose fitting and pull sleeve back. Check for proper locking by firmly pulling trailer's hose fitting.

To disconnect, push knurled coupling forward and pull hose fitting free. Store the hose by sliding the fitting down over the storage pin located on the front of the tongue. Never allow the hose to rest on the ground. This can cause contaminants to get on the fitting and be drawn into the actuator mechanism.

Important: A coupling plug must be inserted in the tow vehicle's vacuum connector when the trailer is disconnected. Operating your engine without the plug will result in a vacuum leak. This may result in engine misfiring, or inoperative vacuum boosted accessories (brakes, emissions, etc.) Extended operation may cause engine damage. An extra plug is supplied in the kit.

The **power brake actuator** (Fig. 3) located in the trailer tongue supplies hydraulic pressure to the disc brake calipers. The fluid level in the booster's master cylinder reservoir should be checked twice a year. If necessary, add fluid to bring level to within $\frac{1}{4}$ inch of the top of the reservoir. With disc brakes, fluid level can be expected to fall as the brake pads wear. Only brake fluid conforming to DOT 3 should be used. Use only fresh brake



Fig. 3—Power Brake Actuator and Breather

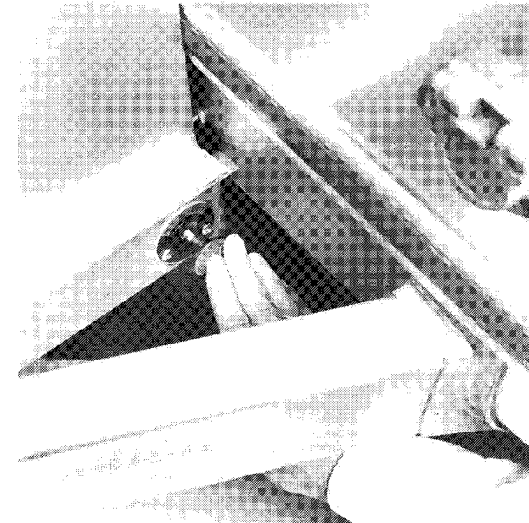


Fig. 5—Brake Release Knob

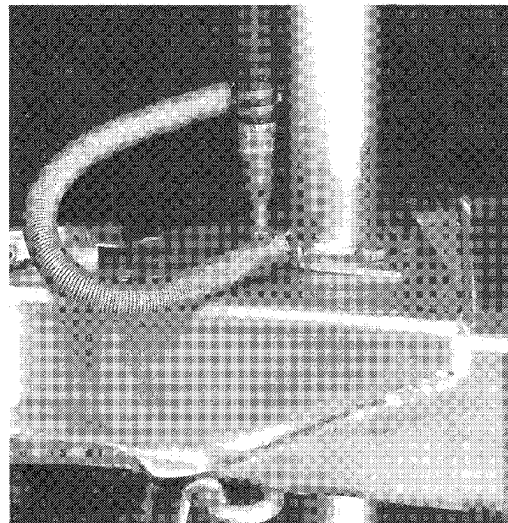


Fig. 4—Trailer Vacuum Hose Storage

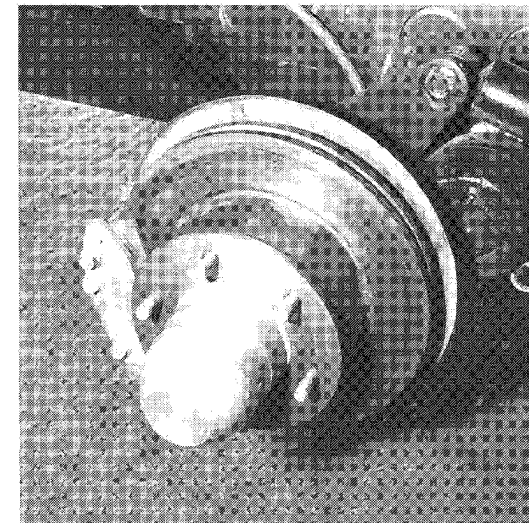


Fig. 6—Disc Brake Calipers, Hub and Rotor

fluid that has been in a tightly closed container to avoid contamination from foreign matter or moisture. Periodically check actuator breather. Replace element if dirty.

When the **trailer vacuum hose** (Fig. 4) is disconnected from the tow vehicle, the trailer brakes are automatically applied. This provides breakaway protection should the trailer break away from the tow vehicle. Brakes engaged by a disconnected supply line can be disengaged by pushing and holding knob (Fig. 5) on brake release valve for 10 seconds. Blocking or chocking wheels is necessary when parking your trailer. **Do not use trailer brakes as parking brakes** by disconnecting the trailer vacuum line.

The self-adjusting **disc brake calipers** (Fig. 6) should be inspected for wear any time the wheels are removed for tire rotation, wheel bearing maintenance, etc. The lining will need replacement if there is evidence of brake fluid leakage or if there is less than $\frac{1}{16}$ " between the liner and liner's steel backing plate. See your Airstream dealer for all trailer braking service.

Additional information on the Brake System is available in the Airstream Service Manual.

Loading

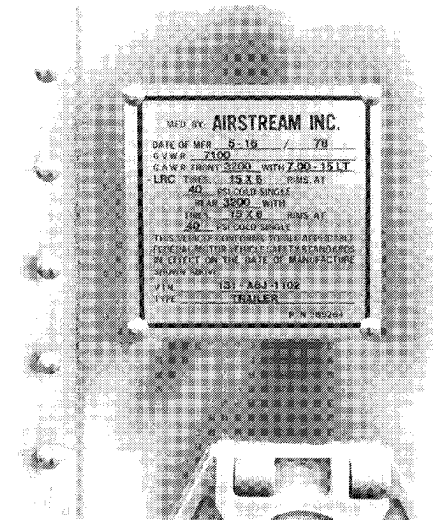
Over all the years Airstream has been building trailers we have rarely found an instance where people have overloaded their trailer. Because it can happen we are giving you instructions for weighing your trailer. We are also providing you with an alternate method of determining the weight of your trailer without the use of scales. The following weight information and form will help you determine the actual weight of your trailer, with all its options and variable weights, and how much personal cargo weight can be added, staying within the weight ratings of your trailer.

Per Federal regulations, your trailer is placarded on the front roadside area with a gross vehicle weight rating (G.V.W.R.) and a gross axle weight rating (G.A.W.R.). The gross vehicle weight rating is the maximum the trailer can weigh when it is being towed. The gross axle weight rating is the maximum load that can be on each axle when the trailer is being towed.

The **Dura-Torque axle** is designed to last the life of your trailer without service, except for lubrication of the wheel bearings. **Under no circumstances should welding be done on or near the axle.**

The diagram on the following page illustrates the use of scales in determining (1) your trailer's total weight, (2) weight on axle assemblies and (3) weight on tongue.

The allowable personal cargo, and placement within the trailer, may be determined by the following methods.



Federal Placard

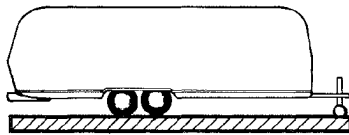
Before weighing trailer **add all trailer's variable weights** which are full water tank, LPG tanks and water heater.

Note: The variable weights of the main and auxiliary holding tanks are not used because, under typical usage, if the water tank is full, there is storage capacity in the holding tanks. As the water tank is emptied, the holding tanks are filled.

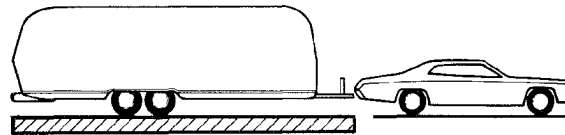
Remove personal cargo which includes food, clothing, kitchen utensils, etc. from trailer. Your trailer is now ready for weighing.

The **trailer's total weight** is determined by placing the trailer, without tow vehicle, on a scale. This weight indicates your trailer's total weight without personal cargo. The allowable personal cargo that you add to your trailer **shall not exceed** the difference

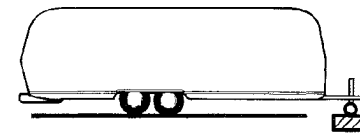
Trailer Weighing



1. **Trailer's Total Weight**
(cannot exceed G.V.W.R.)



2. **Trailer's Weight On Axle Assemblies**
(cannot exceed G.A.W.R.)



3. **Weight on Trailer's Tongue**

between the Gross Vehicle Weight Rating (G.V.W.R.) and this weight. Example: if the G.V.W.R. rating on the placard is 7100 lbs and the trailer's total weight is 6100 lbs, your personal cargo may not exceed 1000 lbs ($7100 - 6100 = 1000$).

The **allowable personal cargo**, determined above, must be distributed in your trailer in such a manner that the **Gross Axle Weight Rating** (G.A.W.R.) is not exceeded.

To determine this, it is necessary to load all of your allowable personal cargo (example above 1000 lbs total) and variable weights. Then hitch trailer to tow vehicle with load equalizing hitch properly adjusted, see the diagram on page 26.

Place trailer on scale with both axles only on scale [see (2) above]. If the weight on

the axles exceeds the axle system G.A.W.R. then some of the personal cargo must be redistributed forward in order to place some of this weight on the tongue.

The **tongue weight** should be between 10%-15% of the trailer's weight **but must not exceed 1,000 lbs.** Some tow vehicle manufacturers may restrict the amount of tongue load to a lower value. To determine tongue load, unhitch tow vehicle and place tongue hitch post on scale, see (3). The trailer must be properly loaded, as determined above, with your allowable personal cargo and variable weights.

A scale which has a lower weight limit than your tongue load, such as a bathroom scale, may be used to check the tongue weight by using the following method (see illustration):

Place a piece of wood of approximately the same thickness as the bathroom scales on the ground in line with the trailer hitch jack as shown. It should be so spaced that a short piece of pipe or other round piece will lay exactly one foot from the center line of the jack extension. Place the scales so that another round piece can be exactly two feet from the center line of the jack extension in the other direction. Place a 4 x 4 on the two round pieces and screw the jack extension down on the top of the 4 x 4 until the tongue of the trailer is supported by it. Multiply the scale reading by three. This will be the tongue weight of your trailer. If you exceed the capacity of the bathroom scales, increase the two foot dimension to three or four or more feet but always multiply the scale reading by the total number of feet between the wood and scales.

Caution: Be sure trailer is level when you read scales.

An alternate method for determining the weight of your trailer, without the use of scales, is by using the following information and form.

Before you fill in the blank form that pertains to your trailer, please read the sample form, page 24, to see what type of information will be needed.

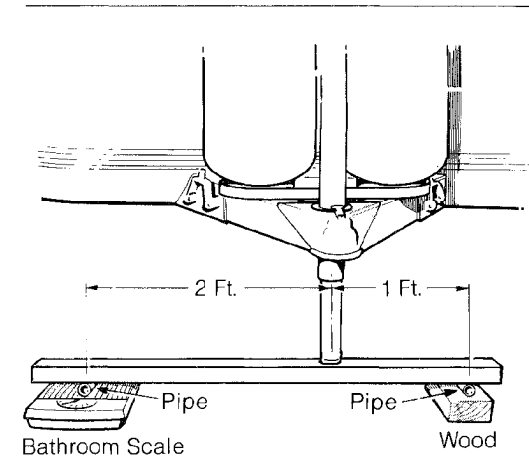
First enter the model length, type of beds, and type of bathroom of your trailer on the first line (i.e. **31 Ft. Twin Rear Bath**).

Column A

Column A represents the Total Maximum Personal Cargo weight that can be added to your trailer. Personal Cargo includes food supplies, clothing, other personal items, etc. Find the Factory Weight of your trailer, Chart A, page 26 and enter it across from ITEM 1 Column A (Factory Weight = weight without options and variable weights (i.e. **4780 lbs**).

Next fill in the total weights of the options and variable weights with which your trailer is equipped. This information is on Charts B or C, pages 27, 28. Add all of the weights together and this total becomes ITEM 2, Column A (i.e. **769.5 lbs**). Next add ITEM 1 and ITEM 2. This becomes ITEM 4, Column A (i.e. **5549.5 lbs**). This is the sum total of your trailer's Factory Weight plus the Options and Variable Weights.

Next enter in ITEM 5, Column A (i.e. **7100 lbs**), your trailer's Gross Vehicle Weight Rating (G.V.W.R.). This information is on the placard located on the front road side area of your trailer which corresponds to information on Chart A, page 26. The Gross Vehicle Weight Rating is the maximum the trailer can weigh when it is being towed. Next subtract ITEM 4, Column A from ITEM 5 Column A; this amount indicates the Total Maximum Personal Cargo that can be added to your trailer (i.e. **1550.5 lbs**). Under no circumstances shall the G.V.W.R. be exceeded.



Tongue Weight

Column B

Column B represents the Recommended Personal Cargo that can be added to your trailer's tongue. Find the Factory Tongue Weight of your trailer and enter it in ITEM 1 Column B (Factory Tongue = weight without options and variable weights, (i.e. **555 lbs**). This information is on Chart A Page 26. Column B has + weight and - weight. Due to the location of optional items within the trailer, their weight will either have a + weight or - weight effect on the tongue. If the option is behind the axle system, or rear of trailer, it will tend to have a - weight, or lifting effect on the tongue; if the option is forward of the axle system, or the front of the trailer, it will have a + weight or loading effect on the tongue. Next fill in + weights or - weights of the options and variable weights with which your trailer is equipped, indicated in the

Tongue Weight Columns on Chart B or C.

Next total both the + weight (i.e. **114.2 lbs**) and – weight (i.e. **22 lbs**) columns and find the difference between the two columns; this becomes ITEM 2 Column B (i.e. **+92.2 lbs**). Next add ITEM 1 Column B and ITEM 2 Column B; this becomes ITEM 4 (i.e. **647.2 lbs**). This is the total of your trailer's Factory Tongue Weight, plus the weight of the Options and Variable Weights on the tongue. Next enter in ITEM 5 Column B $12\frac{1}{2}\%$ of your trailer's G.V.W.R. (i.e. **.125 x 7100 = 887.5**); this information is located on Chart A page 26.

Next subtract ITEM 4 Column B from ITEM 5 Column B and the amount indicates the amount of Recommended Personal Cargo that can be added to your trailer's tongue (i.e. **240.3**).

The maximum tongue load must not exceed 1000 pounds. Some tow vehicles may restrict the amount of tongue load to a lower value. The tongue load is a total of the weight in ITEM 4 Column B plus your personal cargo.

Column C

Column C represents the Maximum Personal Cargo that can be added to your trailer's axle system. Find the Factory Axle Weight of your trailer and enter it in ITEM 1 Column C (i.e. **4225 lbs** — Factory axle Weight = weight without options and variable weights). This information is on Chart A page 26. Next fill in the axle system

weights of the options and variable weights with which your trailer is equipped from the Axle System columns on Chart B or C pages 27, 28. Add all of the weights together and this total becomes ITEM 2, Column C (i.e. **677.3 lbs**).

Next calculate 34% of ITEM 5 Column B (i.e. **.34 x 887.5 = 301.75**). This becomes ITEM 3 column C and represents the amount of tongue weight that is transferred to the trailer's axle system when properly hitched with a load equalizing hitch assembly. (The remaining 66% is transferred to the tow vehicle.) Next add ITEM 1 Column C, ITEM 2 Column C, and ITEM 3 Column C; this becomes ITEM 4 Column C (i.e. **5204.05 lbs**). This is the sum total of your trailer's Factory Axle Weight, the weight of the Options and Variable Weights on the axle system, and 34% of the tongue weight. Next enter in ITEM 5 Column C the sum of your trailer's Gross Axle Weight Rating (G.A.W.R. — i.e. **3200 + 3200 = 6400 lbs**).

This information is on the placard on the front roadside area of your trailer which corresponds to information on Chart A page 26.

The Gross Axle Weight Rating is the maximum load that can be carried on the axle system when the trailer is being towed. Next subtract ITEM 4 Column C from ITEM 5 Column C. The remainder is the amount of total Maximum Personal Cargo that can be added to your trailer's axle system (i.e. **1195.95 lbs**).

Under no circumstances shall the G.A.W.R. be exceeded.

International Option Package

The following items are included in the International Option Package:

Solar Dome.

Exterior Trim

Water Purifier with Filter Faucet

Automatic Gas Regulator

Step Light Assembly

Central Control System (page 54)

Range Exhaust Fan (page 67)

Bath Exhaust Fan (page 58)

Electronic Digital Clock (page 55)

Ceiling Fan (page 57)

Combination Sink Cover and Cutting Board

Black Glass Range Door

Sample Form

	Column A		Column B		Column C
	Maximum Personal Cargo Total (includes axle systems & tongue)		Recommended Personal Cargo on Tongue		Maximum Personal Cargo on Axle System
Model: <i>31 FT. Twin-Rear Bath</i>					
Factory Weight (without options and variable weights)	Item 1	4780			
Factory Axle Weight (without options and variable weights)					Item 1 4225
Factory Tongue Weight (without options and variable weights)			Item 1	555	
Options:			+ Weight	- Weight	
Air Conditioner	139		28		111
Auxiliary Main Step	13		6		7
B.A.L. Jacks	48		4		44
Bunk Bed (each)					
Entertainment Group	10		9		1
L-Front Lounge					
Microwave Oven					
Refrigerator RM-100 (25 Ft. Twin and Double)					
Safety Group	2.5		2.2		.3
Space Locker					
Spare Tire Bracket					
Spare Tire					
T.V. Antenna					
Window – Double Pane					
Window – Vista View	26		15		11
International Package (See page 23)					
Variable Weights:					
Water Heater	50			-22	72
Water Tank	425		0		425
L.P.G. (tank and liquid) <i>7 Gal. STEEL TANK</i>	56		50		6
Item 2 Total	769.5	→	+114.2	-22	= 92.2
Item 3 34% of Item 5 Column B					677.3 → 677.3
Item 4 Items 1 & 2 Total	5549.5		Add Items 1 & 2	647.2	Add Items 1,2,3 5204.05
Item 5 G.V.W.R.	7100.0		Enter 12 1/2% G.V.W.R.	887.5	G.A.W.R. 6400.00
Enter Item 4 and subtract from Item 5	5549.5			-647.2	-5204.05
Maximum Personal Cargo	1550.5				
Recommended Personal Cargo on Tongue				240.3	
Maximum Personal Cargo on Axle System					1195.95

		Column A	Column B			Column C
		Maximum Personal Cargo Total (includes axle systems & tongue)	Recommended Personal Cargo on Tongue			Maximum Personal Cargo on Axle System
Model:						
Factory Weight (without options and variable weights)		Item 1				
Factory Axle Weight (without options and variable weights)						Item 1
Factory Tongue Weight (without options and variable weights)			Item 1			
Options:			+ Weight	- Weight		
Air Conditioner						
Auxiliary Main Step						
B.A.L. Jacks						
Bunk Bed (each)						
Entertainment Group						
L-Front Lounge						
Microwave Oven						
Refrigerator RM-100 (25 Ft. Twin and Double)						
Safety Group						
Space Locker						
Spare Tire Bracket						
Spare Tire						
T.V. Antenna						
Window – Double Pane						
Window – Vista View						
International Package (See page 23)						
Variable Weights:						
Water Heater						
Water Tank						
L.P.G. (tank and liquid)						
Item 2	Total		+	-	=	
Item 3	34% of Item 5 Column B					
Item 4	Items 1 & 2 Total		Add Items 1 & 2			Add Items 1,2,3
Item 5	G.V.W.R.		Enter 12½% G.V.W.R.			G.A.W.R.
Enter Item 4 and subtract from Item 5						
Maximum Personal Cargo						
Recommended Personal Cargo on Tongue						
Maximum Personal Cargo on Axle System						

Chart A: Weights and Ratings

Model		Gross Vehicle Weight Rating G.V.W.R.	Factory Weight Without Options or Variable Weights	Allowable Additional Total Weight Incl. Personal Cargo*	Gross Axle Weight Rating G.A.W.R. (Axle System)	Factory Axle Weight (Axle System)	Allowable Additional Weight (Axle System)	Factory Tongue Weight Without Options or Variable Weights
23 Ft.		5800	3905	1895	5200	3405	1795	500
25 Ft.	T	5800	4005	1795	5200	3620	1580	670
	D	5800	3975	1825	5200	3335	1865	610
28 Ft.	T	7100	4630	2470	6400	4080	2320	550
	D	7100	4690	2410	6400	4115	2283	575
31 Ft. Rear Bath	T	7100	4780	2320	6400	4225	2175	555
	D	7100	4850	2250	6400	4270	2130	580
31 Ft. Center Bath	T	7100	4810	2290	6400	4265	2135	545
	D	7100	4800	2300	6400	4255	2135	545

*Allowable additional weight includes all options and accessories, L.P.G., water, waste, food supplies, clothing, other personal cargo, etc.

T—Twin Bed Models
D—Double Bed Models

Chart B: 23, 25 & 28

Optional Equipment & Variable Weights	Total Weight	23		25 Twin		25 Double		28 Twin		28 Double	
		Axle	Tongue	Axle	Tongue	Axle	Tongue	Axle	Tongue	Axle	Tongue
Air Conditioner 14,000 BTU	139	NA		NA		NA		129	10	129	10
Auxiliary Main Step	13	8	5	7	6	7	6	7	6	7	6
B.A.L. Jacks	48	44	4	43	5	43	5	43	5	43	5
Bunk Bed	45	46	-1	48	-3	48	-3	49	-4	49	-4
Entertainment Group	10	NA		4	6	4	6	2	8	2	8
L-Front Lounge	80	NA		NA		NA		NA		NA	
L.P.G. 7 gal. Steel Tanks & Liquid	56	8	48	8	48	8	48	7	49	7	49
L.P.G. 7½ gal. Alum. Tanks & Liquid	40	6	34	5	35	5	35	5	35	5	35
L.P.G. 10 gal. Alum. Tanks & Liquid	66	10	56	8	58	8	58	8	58	8	58
Microwave Oven	66	NA		NA		NA		55	11	55	11
Refrigerator RM-100	169	NA		122	47	122	47	STD		STD	
Safety Group	2.5	.4	2.1	.4	2.1	.4	2.1	.3	2.2	.3	2.2
Space Locker	20	19	1	20	0	20	0	22	-2	22	-2
Spare Tire Bracket	13	3	10	3	10	3	10	3	10	3	10
Spare Tire & Wheel	52	14	38	13	39	13	39	12	40	12	40
T.V. Antenna Manual	5	3	2	2	3	2	3	2	3	2	3
International Pkg.	50	40	10	40	10	40	10	40	10	40	10
Water Tank—Liquid Only	425	425	0	425	0	425	0	425	0	425	0
Water Heater—Liquid Only	50	64	-14	65	-15	64	-14	69	-19	69	-19
Windows—Double Pane	Variable	50	19	49	16	53	17	56	21	56	21
Windows—Vista View	Variable	8	8	4	3	9	7	9	7	9	7
Excella Vac Disc Brakes	Variable	59	48	58	49	58	49	58	50	58	50

Liquid weights indicate full container NA - Not Available

Chart C: 31 Ft. Rear Bath & Center Bath

Optional Equipment & Variable Weights	Total Weight	31 Twin Rear Bath	31 Double Rear Bath	31 Twin Center Bath	31 Double Center Bath		
		Axle Sys. Tongue	Axle Sys. Tongue	Axle Sys. Tongue	Axle Sys. Tongue		
Air Conditioner 14,000 BTU	139	111 28	111 28	111 28	111 28		
Auxiliary Main Step	13	7 6	7 6	7 6	7 6		
B.A.L. Jacks	48	44 4	44 4	44 4	44 4		
Bunk Bed	45	50 -5	50 -5	NA	NA		
Entertainment Group	10	1 9	1 9	1 9	1 9		
L-Front Lounge	80	11 69	11 69	11 69	11 69		
L.P.G. 7 gal. Steel Tanks & Liquid	56	6 50	6 50	6 50	6 50		
L.P.G. 7½ gal. Alum. Tanks & Liquid	40	4 36	4 36	4 36	4 36		
L.P.G. 10 gal. Alum. Tanks & Liquid	66	7 59	7 59	7 59	7 59		
Microwave Oven	66	58 8	58 8	58 8	58 8		
Refrigerator RM-100	169	STD	STD	STD	STD		
Safety Group	2.5	.3 2.2	.3 2.2	.3 2.2	.3 2.2		
Space Locker	20	22 -2	22 -2	NA	NA		
Spare Tire Bracket	13	3 10	3 10	3 10	3 10		
Spare Tire & Wheel	52	12 40	12 40	12 40	12 40		
T.V. Antenna	Manual	5	2 3	2 3	2 3		
	Electric	13	6 7	6 7	6 7		
International Pkg.	50	41 9	41 9	41 9	41 9		
Water Tank—Liquid Only	425	425 0	425 0	425 0	425 0		
Water Heater—Liquid Only	50	72 -22	72 -22	61 -11	61 -11		
Windows—Double Pane	Variable	64 18	64 18	68 12	68 12		
Windows—Vista View	Variable	11 15	11 15	19 7	19 7		
Excella Vac-Disc Brakes	Variable	59 49	59 49	59 49	59 49		

Tires

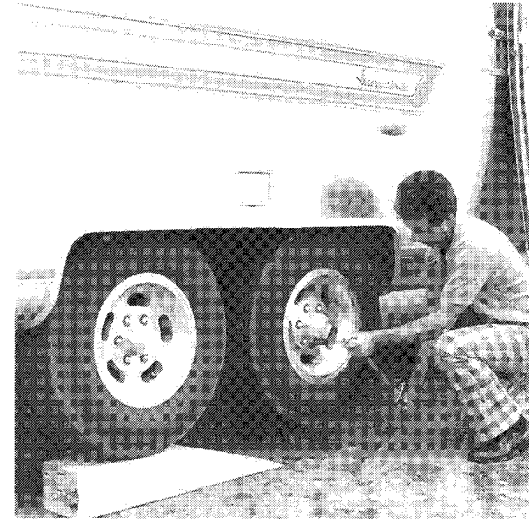
Your Airstream is equipped at the factory with name brand trailer tires. Airstream dealers cannot make adjustments to tires. This must be done by a dealer who handles that particular brand. If you ever have tire problems, check the local telephone directory for the nearest dealer.

To get the maximum performance from your tires check the air pressure often, but only when the tires are cool. Never bleed out air immediately after driving. Recommended tire pressures vary with models, tire type and size. For specific pressures refer to the table, page 30.

It is also important to periodically check on the tightness of the lug nuts. They should be tightened to a torque of 90-95-ft.-lbs. on both the steel and forged aluminum wheels. Care should be taken at all times when handling the forged aluminum wheel because of possible damage to its appearance.

In a warm climate, park out of the sun whenever possible. In desert regions use the tire covers to prevent ultra-violet deterioration to tires.

To change a tire with a jack, see the label affixed to the underbelly just to the rear of the wheels. This indicates the proper jack placement. On tandem axle models a flat tire may be changed without the aid of a jack. Drive the unit up a ramp 8" wide, 6" high and about 3 feet long at the base (see photo).

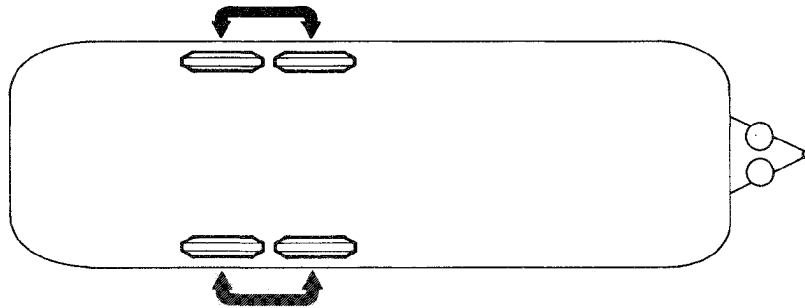


Tire Changing

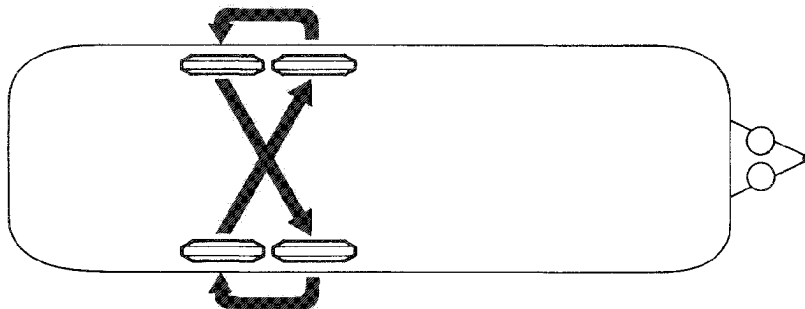
All tire, wheel, hub and drum assemblies are dynamically balanced at the factory. **Be sure to rebalance the tire, wheel, hub and drum assemblies each time a tire is changed or rotated.**

In an emergency remove the flat tire. The independent suspension of the Dura-Torque Axle allows a four wheel unit to be safely towed on three wheels for a short distance (100 miles maximum) and only at a low speed (30 MPH). Be especially cautious in crossing holes or dips in the road. Under these circumstances, it is good practice to set your rear view mirrors so that you can observe your tires at all times.

Tire Rotation



Radial



Bias Belted

Tire Load and Inflation Pressure Notes

1. Tire inflation pressure may increase as much as 6 pounds per square inch (PSI) when hot.
2. Cold tire inflation pressure: after vehicle has been inoperative for 3 hours or more, or driven less than 1 mile.

Tire Inflation Pressure (PSI) Cold Inflation

Model	7.00 x 15 Load Range C	7.00 x 15 XC Steel Radial Tires
23, 25	35 PSI	35 PSI
28 Ft., 31 Ft.	40 PSI	45 PSI

*N.R. Not recommended by tire manufacturer

Hitching Up

Hitching up your Airstream trailer is something that will become almost second nature with practice. The following section includes proper hitch load distribution and a procedure for hitching up.

The electric jack is strongly recommended for anyone who, for any reason, should not physically exert himself. Available as a factory option or through the Wally Byam Stores, the electric jack makes hitching and unhitching a much easier operation.

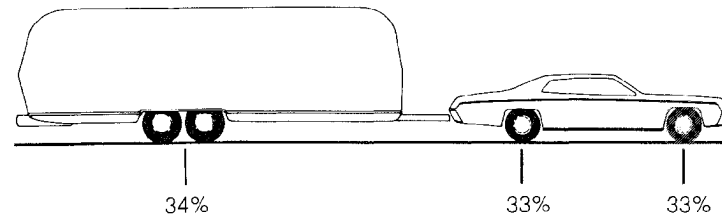
Equalizing Hitch Load Distribution

When a trailer is hitched up properly to a tow vehicle, with a load equalizing hitch, approximately $\frac{1}{3}$ of the trailer's tongue weight will be on the trailer's axles and $\frac{2}{3}$ will be transferred to the tow vehicle. $\frac{1}{3}$ of this weight transfer will be carried by the front wheels and $\frac{1}{3}$ by the rear wheels of the tow vehicle (see diagram). Thus, the tire loading of each wheel on the tow vehicle will be increased by $\frac{1}{6}$ of the trailer's tongue weight. The tire air pressure of the tow vehicle should be increased to compensate for this additional weight. Refer to the vehicle's owners manual for this information.

The tongue weight should be approximately 10% to 15% of the trailer's total weight but **must not exceed 1000 lbs.** and under no condition exceed the hitch rating. Your hitch rating information should be provided to you by your hitch installer.

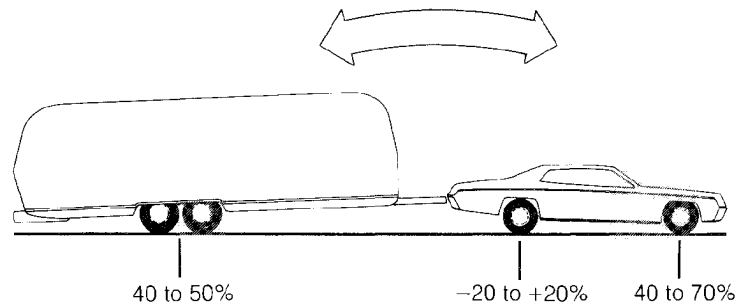
Equalizing Hitch Load Distribution

Proper Installation

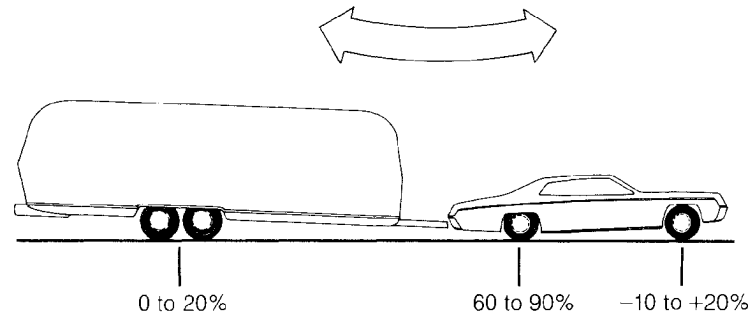


Percentage of Tongue Load distributed to car and/or trailer wheels.

Hitch High



Hitch Low



Steps for Hitching Up

Jack up the trailer hitch until there is clearance for the **hitch ball** to slide under, remove safety pin and raise the **locking lever**. Back the car straight back to the hitch. (See Fig. 2.) This can best be accomplished through the use of prearranged hand signals with the help of another person, but if you are hitching up by yourself we recommend the use of a **hook-up view mirror**.

Lower the trailer hitch onto the hitch ball; then close the locking lever and insert safety pin. (See Fig. 3.)

Now raise the trailer and car to the full height of the hitch jack (See Fig. 4) and then attach the **leveling bars**. (See Fig. 5.) Lower the car and trailer. The hitch ball should be level to slightly higher. Readjust leveling bars until this condition is correct. (See Fig. 6.) This will result in the best balance for towing and steering control as the weight equalizing hitch distributes the hitch load. With proper hitch installation and hitching up the bar should have a noticeable amount of deflection or bending. (See Fig. 7.) A little practice with your rig will teach you how far to pull up the bar, and you may wish to mark the chain links that match your rig. Always choose level ground for checking correct hook-up. For further information see manufacturers' literature.

Note: If your car is equipped with adjustable load leveling air shocks, you must load the car first with typical

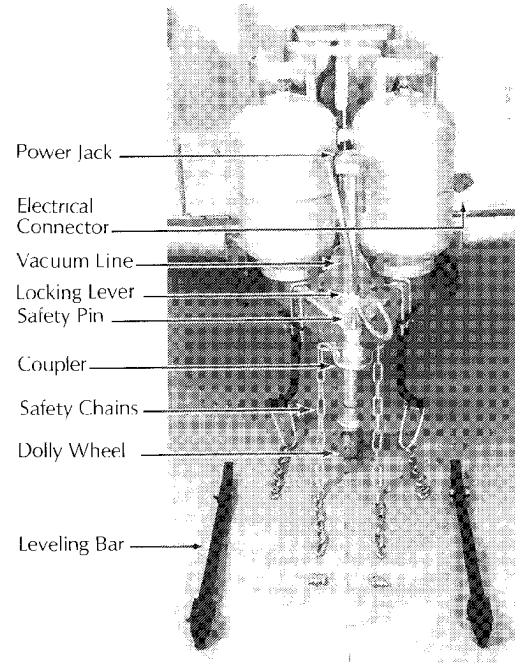


Fig. 1 — Hitching Up Equipment

luggage and passengers and bring it back to level. Then attach the trailer and adjust the load leveling bars. Otherwise the air shocks on your car will overload the rear wheels. Do not use air shocks to level car and trailer after hitching up.

The hitch ball on your car should be installed at a height of 19½" to the top of the hitch ball, measured when the car is loaded. A low hitch ball increases tail-wagging tendencies by lowering the nose of the trailer thus changing the center of support for the trailer and reducing the weight on the front wheels of the car.

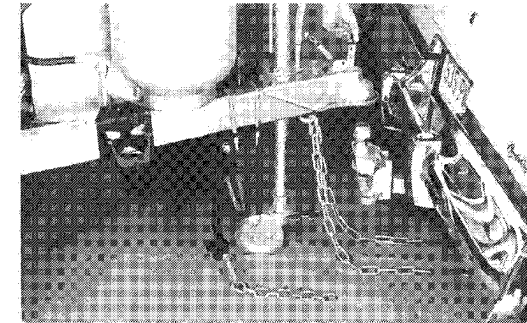


Fig. 2 — Hitching Up

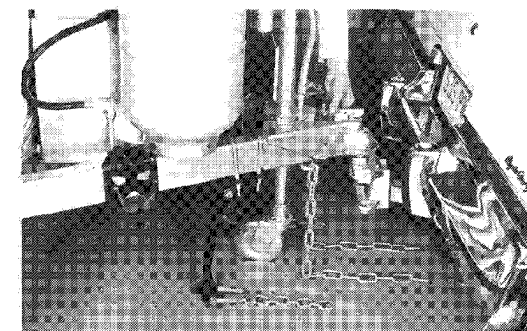


Fig. 3

Plug in the electrical connector cord and check running, directional, and brake lights. If your trailer is equipped with electric brakes, attach the break-away switch cable to welded portion of hitch, or cars frame. If it has hydraulic disc brakes, remove plug from tow vehicle's vacuum coupling and insert trailer's vacuum line plug. (See Fig. 8). To couple, push knurled coupling sleeve forward, firmly insert trailer's vacuum hose fitting and pull sleeve back. Check for proper locking by firmly pulling trailer's hose fitting.

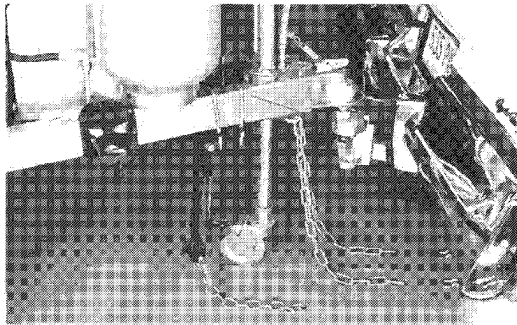


Fig. 4

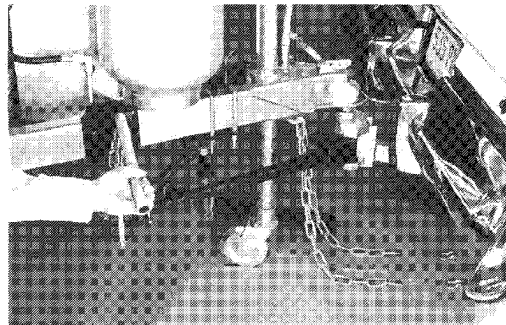


Fig. 6

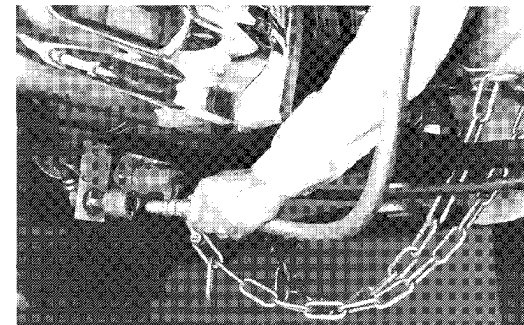


Fig. 8

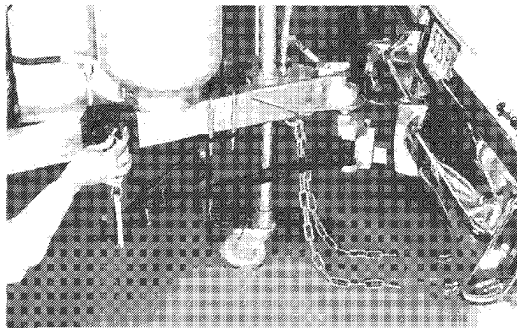


Fig. 5

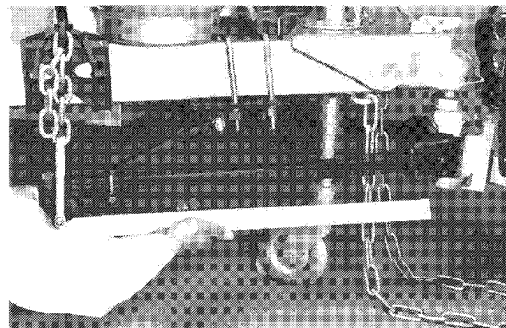


Fig. 7

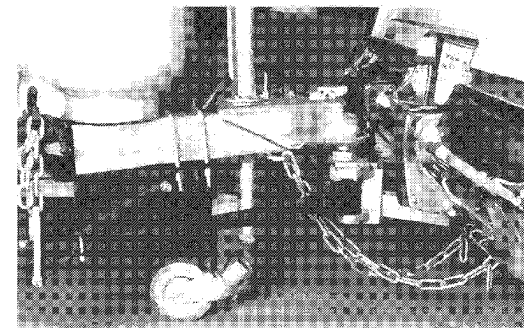


Fig. 9

Attach the safety chains to the welded portion of the hitch or the car's frame, but never to the removable ball mount. Cross the safety chains under the hitch.

Retract the hitch jack completely for maximum ground clearance. Remove the jack pad, and stow in the car's trunk, along with leveling jack and other gear used when stopped. Never tow your trailer with the jack down. Check that the fold-away step is up and that the main door is completely closed and locked for towing. If it is not locked the constant vibration of

travel may cause it to open with possible damage.

Move the rig ahead about 50 feet and test the trailer brakes, then check the ground for forgotten objects. Regularly check the condition of your tires, air pressure, and the tightness of the lug bolts. For specific tire pressures refer to page 30.

Towing Tips

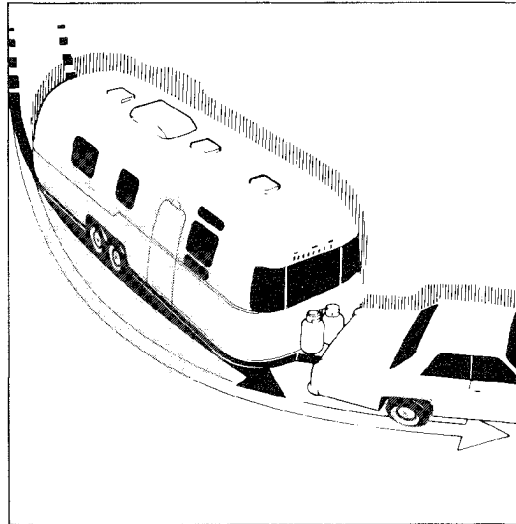
We want every Airstream owner to be a safe and courteous driver.

A few hours of towing practice in a large empty supermarket parking lot will make pulling your Airstream over the road much easier. Line out two corners for both left and right turns. You may also use these corners to practice backing and parking.

Observe that the tracks made by the trailer wheels are distinctly different from those made by your car. Studying this will make it easier for you to correct mistakes. Truck or trailer type fender or door grip rear view mirrors are a must for maximum visibility and in most states they are required by law.

After thoroughly inspecting your hitch, brakes and tires you should be ready to tow. Check traffic, signal that you are about to pull away, and start slowly. Look often in your mirrors, and observe the action of the trailer, then carefully move into the proper lane of traffic. Remember that the trailer wheels will not follow the path of the car's wheels, therefore, **wider turns are necessary when turning to the left or to the right.**

On freeways or expressways try to pick the lane you want, and stay in it. Always maintain plenty of space between you and the car ahead, at least the length of the car plus trailer, for every ten miles per hour. Remember that in order to pass another vehicle, you will need longer to accelerate. You must also allow for the length of the trailer when returning to the right hand lane.

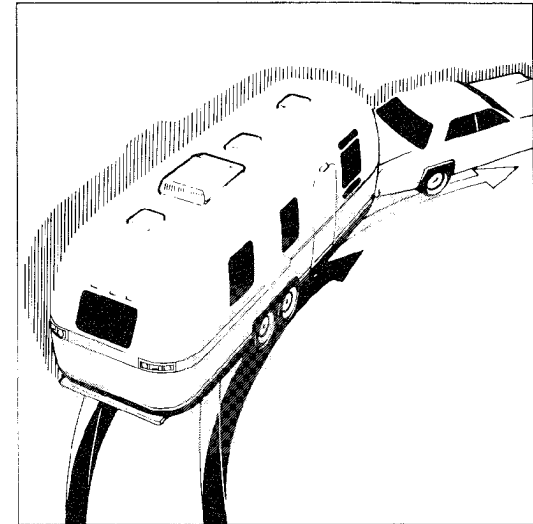


Tracking

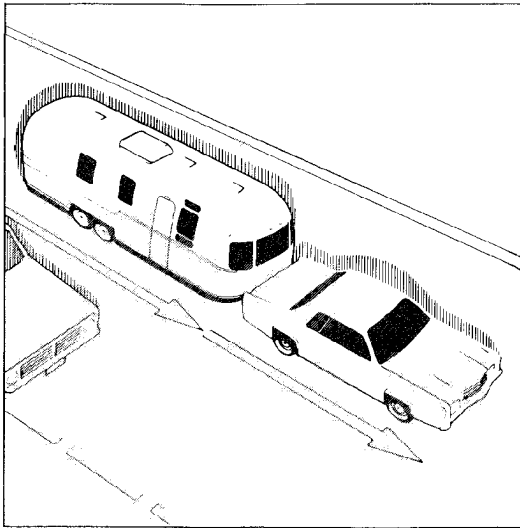
On a two lane road, cars will be lining up behind you because you travel at a lower speed. It is both courteous and sensible to signal, pull onto the shoulder, and let them pass. Your Airstream is designed to be towed easily at any legal speed, so if you are not careful you may be inclined to forget it is there.

The **brake controller** is activated when you apply the brakes of the tow vehicle. Your car brakes will automatically apply the trailer brakes first when properly adjusted. This will help keep your car and trailer in a straight line and make you stop as if you were driving the car alone.

Note: The tow vehicle's engine must be warm (near operating temperature) to insure maximum braking, with vacuum operated hydraulic disc brakes.



When trailering, you might encounter a temporary cooling system overload during severe conditions—such as hot days when pulling on a long grade. when slowing down after higher-speed driving, or driving long idle periods in traffic jams. If the hot indicator light comes on or the temperature gauge indicates overheat and you have your air conditioning turned on, turn it off. Pull over in a safe place and put on your emergency brake. Don't turn off the engine. Increase the engine idle speed. Lift the engine hood and check for fluid leaks at the radiator hoses, radiator or radiator overflow outlet. Check to see that all drive belts are intact and the fan is turning. If you have a problem, have it fixed at the next opportunity. If there is no problem, light should go off or temperature should come down within one minute. Proceed on the highway a little slower. Ten minutes later



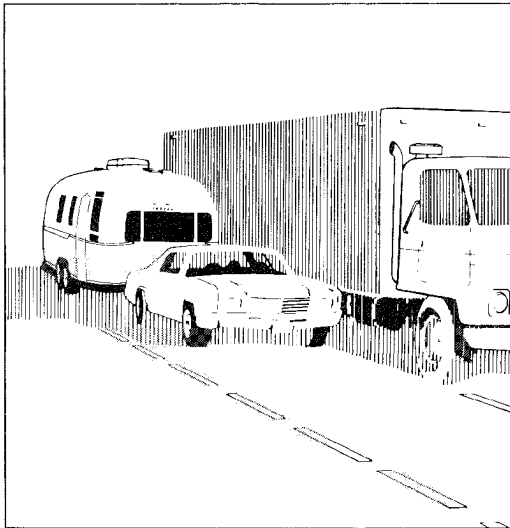
Passing

resume normal driving.

Caution: Never open a radiator cap. when the car is hot! Check the car coolant level when the car is cool.

When going downhill in dry weather, down shift so that engine compression will slow the whole rig down. Take dips and depressions in the road slowly and do not resume normal driving speeds until you are sure that the trailer wheels are clear of the dip.

On slippery pavement do not use engine drag to help slow down as this may cause the rear wheels of the car to skid. On icy pavement drive slowly and if you feel the car is skidding, gently apply the trailer brakes only. This will bring the car and trailer back into a straight line. Chains do



not help trailer wheels.

When driving in mud and sand let the momentum carry the rig through. Apply power gently and use as little as possible. Stay in the tracks of the vehicle ahead and keep the car in the highest possible gear. If you do get stuck it is best to tow out both car and trailer together without unhitching.

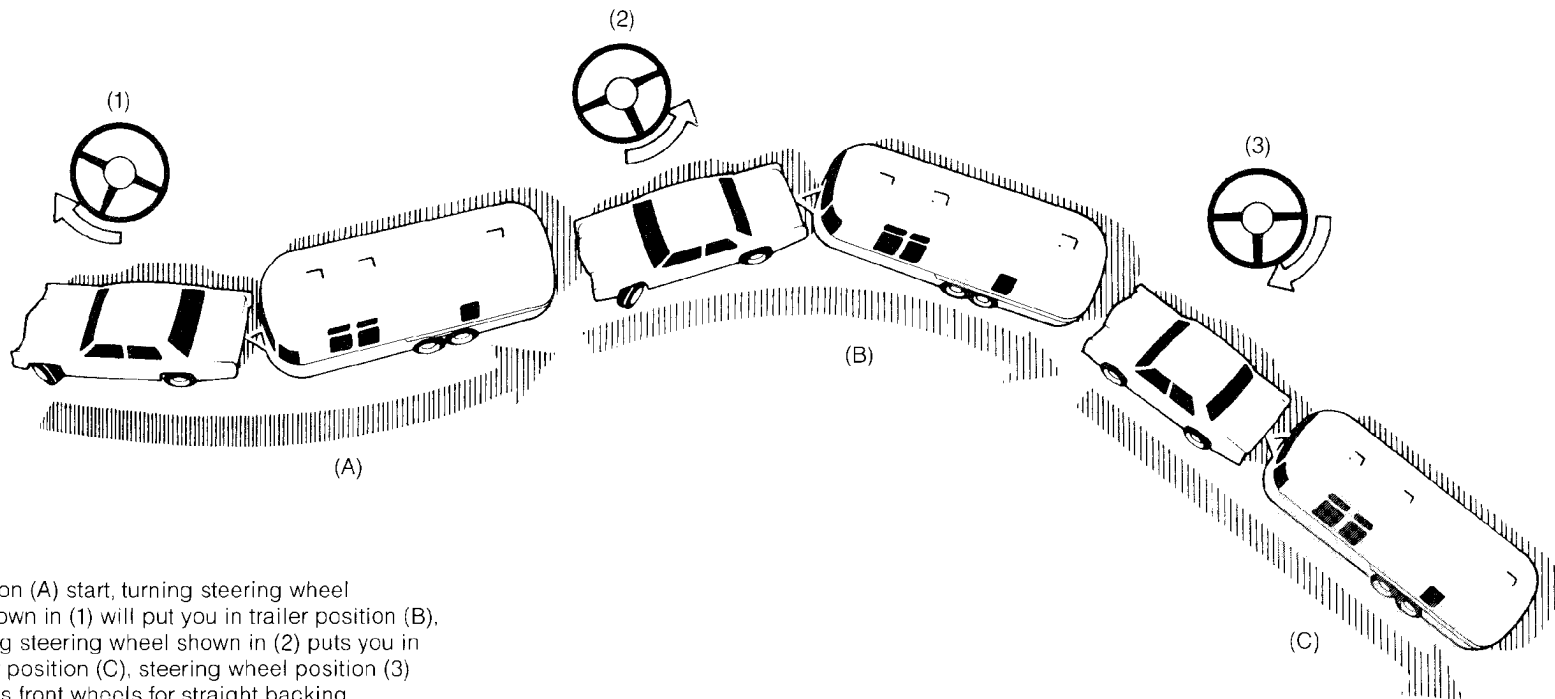
If you have to tow long distances over bad roads, the stones and gravel thrown back by your tires will dent and scratch the aluminum finish of your Airstream. To prevent this, use masking tape to secure heavy sheets of cardboard to the lower front end of the trailer.

Despite the best hitch, you will notice that whenever a large bus or truck overtakes your rig the displaced air first

pushes the trailer rear slightly to the right and then affects the front. It may be necessary to steer very slightly, momentarily, toward the bus or truck, to help compensate for the sway induced by the passing vehicle. Do not apply the vehicle brakes, as this can tend to exaggerate the situation. You may find, however, that briefly applying the trailer brakes with your manual control will help eliminate sway.

When stopping on a hill or slope, leaving your car in gear is not enough for stand-still-safety. **Chock the trailer wheels** to be double sure. Do not use trailer brakes as parking brakes by disconnecting the trailer vacuum line.

Backing Up



Position (A) start, turning steering wheel as shown in (1) will put you in trailer position (B), turning steering wheel shown in (2) puts you in trailer position (C), steering wheel position (3) returns front wheels for straight backing.



Indicates steering direction

In backing up, the important thing to remember is to **do everything slowly** and to correct immediately if you see the trailer turning the wrong way. Concentrate on the rear of the trailer. With your car and trailer in a straight line, back up slowly and turn the bottom of the steering wheel in the direc-

tion you want the trailer to go. Watch out the window or in the mirror until the rear of the trailer is pointing in the desired direction. Then turn the steering wheel in the opposite direction. Your car will be following the trailer in an arc. Straighten the car and trailer by turning the steering wheel more

sharply, then when they are in line, straighten the steering wheel. **Always try to back to your left because the visibility is much better.** (See illustration.) When you don't make it on the first try it is usually much easier to pull forward to your original position and start over.

Overnight Stop

Airstream owners have parked virtually every place imaginable from filling stations to farm lands. In time you will develop a knack for spotting wonderful little roadside locations by turning off the main highway and exploring.

There are many modern trailer parks including State, County and Federal parks with good facilities, where you may obtain hookups of electrical, water and sewer connections. Directories are published which describe in detail these parks and tell what is available in the way of services and hookups.

On overnight or weekend trips, chances are you will not use up the capacity of the sewage holding tank, deplete the water supply or run down the battery which supplies the 12 volt current.

On a longer trip, when you have stayed where sewer connections and utility hookups were not available, it will be necessary for you to stop from time to time to dispose of the waste in the holding tank and replenish the water supply. Many gas stations (chain and individually owned) have installed **sanitary dumping stations** for just this purpose. Booklets are available which list these dumping stations.

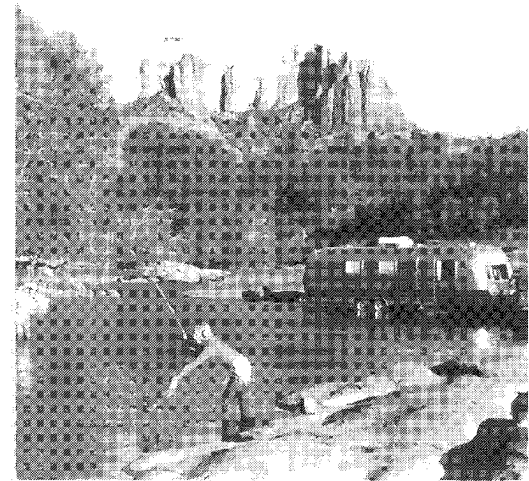
When stopping for the night your Airstream is built to be safely parked in any spot that is relatively level and where the ground is firm. **Your facilities are with you, you are self-contained.** Unless the car is needed for transportation, it is not necessary to

unhitch. Try to pick as level a parking spot as possible. **Stabilizing jacks or blocks** probably won't be required for an overnight stay; however if you put the jack pad on the hitch jack and run the hitch jack down to take the weight off the car's springs this will provide some stability. If you must park on a slope, **park facing downhill;** it is easier to level the Airstream this way.

All you need to do to enjoy the self-contained luxury of your Airstream is to:

1. Light the water heater, refrigerator and furnace pilots if required. See pages 60-70 for complete details on LPG system and gas operated appliances.
2. Turn on range gas supply and light the pilot.

Before moving on, check the campsite, both for cleanliness and also to be sure you haven't left anything behind, turn off the gas supply petcock to the range and make sure everything is properly stowed. Use your Pre-Travel Check List on page 93 and you are ready for more travel adventure.



Extended Stay

Making a long trip in your Airstream is not very different from making a weekend excursion. Since everything you need is right at hand you are at home wherever you go. When packing for an extended trip take everything you need, but only what you need.

When you plan to stay in the same place for several days, weeks, or months, you will want your trailer to be as level and steady as possible. Check the attitude of your Airstream with a small spirit level set on the inside work counter or the trailer hitch "A-Frame." (See Fig. 1.) If a correction is necessary then **you must level from side to side first**. This can be done most easily up a small ramp consisting of 2" x 6" boards about four feet long and tapered at both ends. (See Fig. 2.) We do not recommend placing tires in a hole for leveling.

Level from front to rear by disconnecting the hitch from the car, putting the jack pad under the hitch jack and adjusting the jack up or down until you are level. Block or chock the wheels to keep the trailer from rolling. Use **stabilizing jacks** at all four corners as shown in the diagram to the right, to eliminate the natural spring action of the axles. If you have optional **B.A.L. stabilizing jacks** (Fig. 3) use the wrench, located in the hose carrier, to lower the two units on the low side. Bring trailer to a level position side to side. Lower opposite stabilizing units to a firm position.

Note: Whenever the trailer must be lifted with a jack as when changing a tire or leveling on very rough terrain, **always**



Fig. 1 — Spirit Level

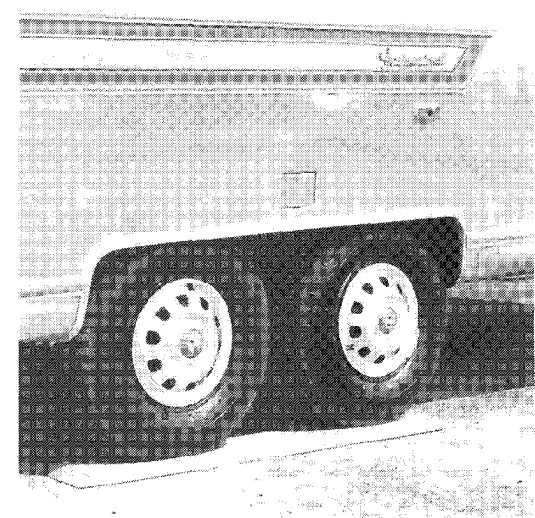
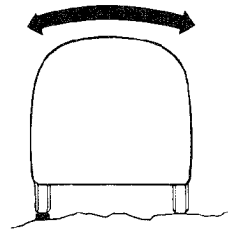
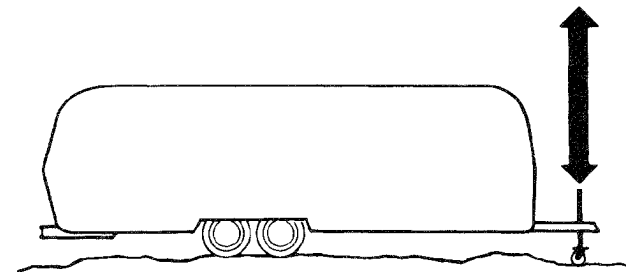


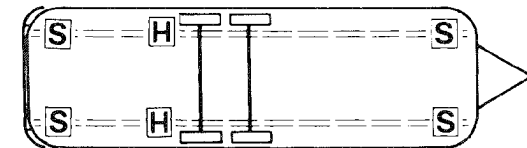
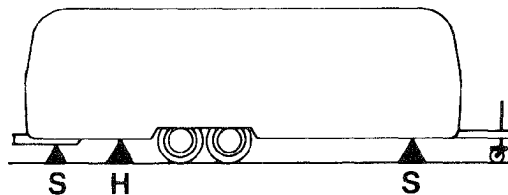
Fig. 2 — Trailer Leveling



1. Level from Side to Side.



2. Level from Front to Rear.



H—Hydraulic Jack Positions
S—B.A.L. Stabilizing Jack

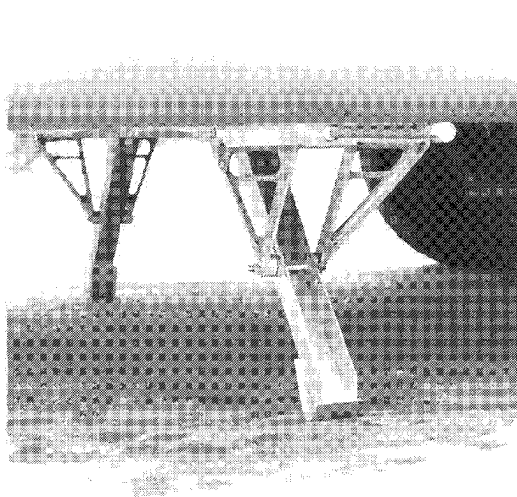


Fig. 3—B.A.L. Stabilizing Jack

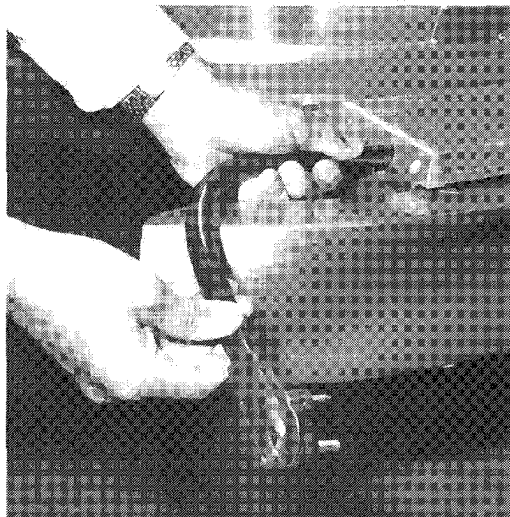


Fig. 5—120 Volt Electrical Cable

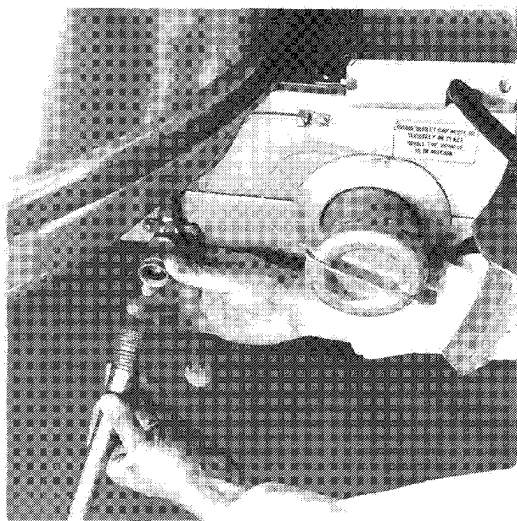


Fig. 4—City Water Hook-Up

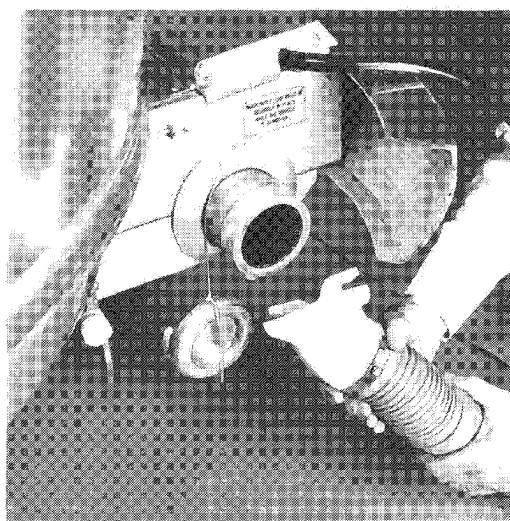


Fig. 6—Waste Drain Hose Hook-Up

place the jack under the main frame rail. A label is provided to indicate the proper position for the jack. **Never use stabilizing jacks to lift the trailer.**

Hook up to water (see Fig. 4) by attaching a 1/2" minimum high pressure water hose to the city water service.

Plug the **electrical cable** (see Fig. 5), which is stored in the bumper storage compartment into the **city power service**. Be sure you have the wire grounded and have the proper polarity. See page 76 for details.

Hook your **waste drain hose** (see Fig. 6) into the **sewer disposal facility** and attach to the drain outlet in your trailer. For details on this procedure refer to page 74.

Turn on gas supply; light the range and oven pilots, light the water heater, refrigerator and furnace pilots. See pages 60-70 for complete details on L.P.G. system and gas operated appliances.

When you stay for extended periods where electric or water hook-ups are not available, you must make regular checks on the condition of your 12 volt battery and the contents of your water tank. Try to conserve electricity. You can recharge your battery by hooking up the car/trailer electrical connector and running the car engine at a fast idle. 45 minutes per day should provide about 3-4 hours of power. Carry drinking water in a clean bucket to refill your tank. When your waste tank nears capacity, move to a dumping location.

Winter Airstreaming

Traveling in an Airstream during the cold winter months can be one of the most exhilarating experiences in all trailering. When we speak of cold, we are talking about temperatures of zero to -10 degrees. Airstreams properly outfitted with dual-pane windows have been cold-soaked at -20 degrees with no adverse effects and with no real discomfort. Dual-pane side windows which are offered as an option, do not require storm windows. Dual-pane side windows, galley, bathroom and optional window shades improve the efficiency of the heating system.

There are of course certain precautions which must be taken as you would in your own home in low temperatures.

1. There should be heat in the trailer at all times*
2. You must have a plentiful supply of propane gas.
3. If your stay is longer than overnight, then you should endeavor to have 110 V electricity available. The battery (fully charged) will not last more than about 10 hours in zero weather. Of course you can always run your car to recharge the battery and normally the battery will attain sufficient power to run another 3-4 hours by running your engine for approximately

* Some states do not allow L.P.G. to be turned on while moving. While traveling in these states it will be necessary to take other precautions to prevent freezing of the water and waste drain systems. (See "Storage and Winterizing") Additionally, L.P.G. should always be shut off as a safety precaution when gasoline is added to the tow vehicle.

45 minutes to one hour at fast idle. For more detailed information on the battery see page 78.

4. Minimize use of electricity if 110 volt power source is not available.
5. Your Airstream has forced air heating in the holding tank area. There is also heating around the water tank.
6. Leave cabinet doors, bed doors and wardrobe doors slightly open at night to allow circulation of air around all furniture components.
7. For extended stays in cold weather, insulate the water line outside the trailer.

You should remember that low temperatures in combination with high winds cause an equivalent chill temperature much below what your thermometer is reading. For instance, with an outside temperature of zero degrees and the wind velocity of 10 miles per hour, the equivalent chill temperature is minus 20 degrees. F. Whenever possible, experienced winter campers try to park their trailer so it heads into prevailing winds. Use trees and other natural barriers as wind breaks. Be sure to check all tires before setting out. There should be plenty of tread left on each one for safety and maximum traction.

It is also important to **guard against excessive humidity** inside your trailer during winter camp-outs. When windows and window frames fog up or "sweat", it means that there is too much moisture in

the air. Moisture comes from water vapor, and water vapor is the direct result of water evaporating. Many things such as baths and showers, boiling foods, washing dishes, mopping the floor, washing clothes, even breathing, contribute to evaporation. The inside air can only absorb so much of this moisture before it becomes saturated. At this point, it can hold no more, and any additional water vapor condenses back to liquid water in the form of droplets on any available cool solid surface. Temperature has a direct effect on the air's saturation point. Cold air holds less moisture than warm air. For this reason, the air immediately adjacent to cold outside walls and windows cools down and causes water vapor to condense and form moisture droplets even though warmer inside surfaces are still dry.

The best way to keep condensation under control is to reduce moisture producing activities. It is also important to provide adequate ventilation and keep the air circulating as much as possible. Use your exhaust fans to remove moisture before water vapor mixes with the air. Open windows slightly once in a while, while operating fans to bring in drier outside air and aid in overall air circulation. In extremely cold weather, when outside ventilation is not practical, it may be necessary to use a small de-humidifier to aid in reducing condensation.

Storage and Winterizing

When storing your trailer for short or long periods use the same precautions as you would in your own home in regard to perishables, ventilation and rain protection. In addition, for prolonged storage periods, flush out all the drain lines and the holding tanks. Also, drain the entire water system including the water heater and the water storage tank. Instructions for draining the water system are explained in the following paragraphs on winterizing.

Twice a year or after a long storage period, we suggest you take your unit in for a check-up and cleaning of the gas operated appliances.

The main consideration in winterizing is to guard against freezing damage to the hot and cold water systems, the waste drain system (including the traps), the waste-holding tanks, the water heater and the battery. To completely winterize your Airstream, follow this procedure:

1. Level the trailer from side to side and front to rear. Open all faucets.
2. Turn the water pump switch to the ON position to expel water from the storage tank.
3. Open all drain valves. See page 74 for location.
4. While the water is draining from the system, open and flush the toilet flushing valve. Depress hand spray lever while holding the spray head down inside the bowl. Depress hand spray thumb button on the telephone shower head while

holding down inside the tub and drain all water from the flexible hose. Unscrew the heads on both spray units and store.

5. After pump has removed all water from the storage tank, turn the pump switch OFF.
6. Remove exhaust hose from water pump.
7. Disconnect the water pump inlet connection, and with check valve removed, turn the pump by hand until all the water is expelled.
8. Lower the front of the trailer as far as the jack will allow until water ceases to drain, then crank the jack up as high as it will go and let any remaining water drain out the rear drain valves.
9. Pour a cup of approved* nontoxic antifreeze into the lavatory, sink, and tub drains to prevent trap freeze-up.
10. Be sure to open the waste-holding tank drain valves and drain and flush the tanks thoroughly. **(This is very important as the sewage in the tanks, if frozen, could seriously damage the tanks.)**
11. Remove the cartridge of the water purifier and leave the purifier valve in the open position.
12. Remove the battery from your Airstream and store in a cool dry place where there is no danger of freezing. It is very important for optimum life of your battery to check it periodically and to keep it fully charged.

* Approved and listed by a recognized testing authority such as UL (Underwriter Lab).

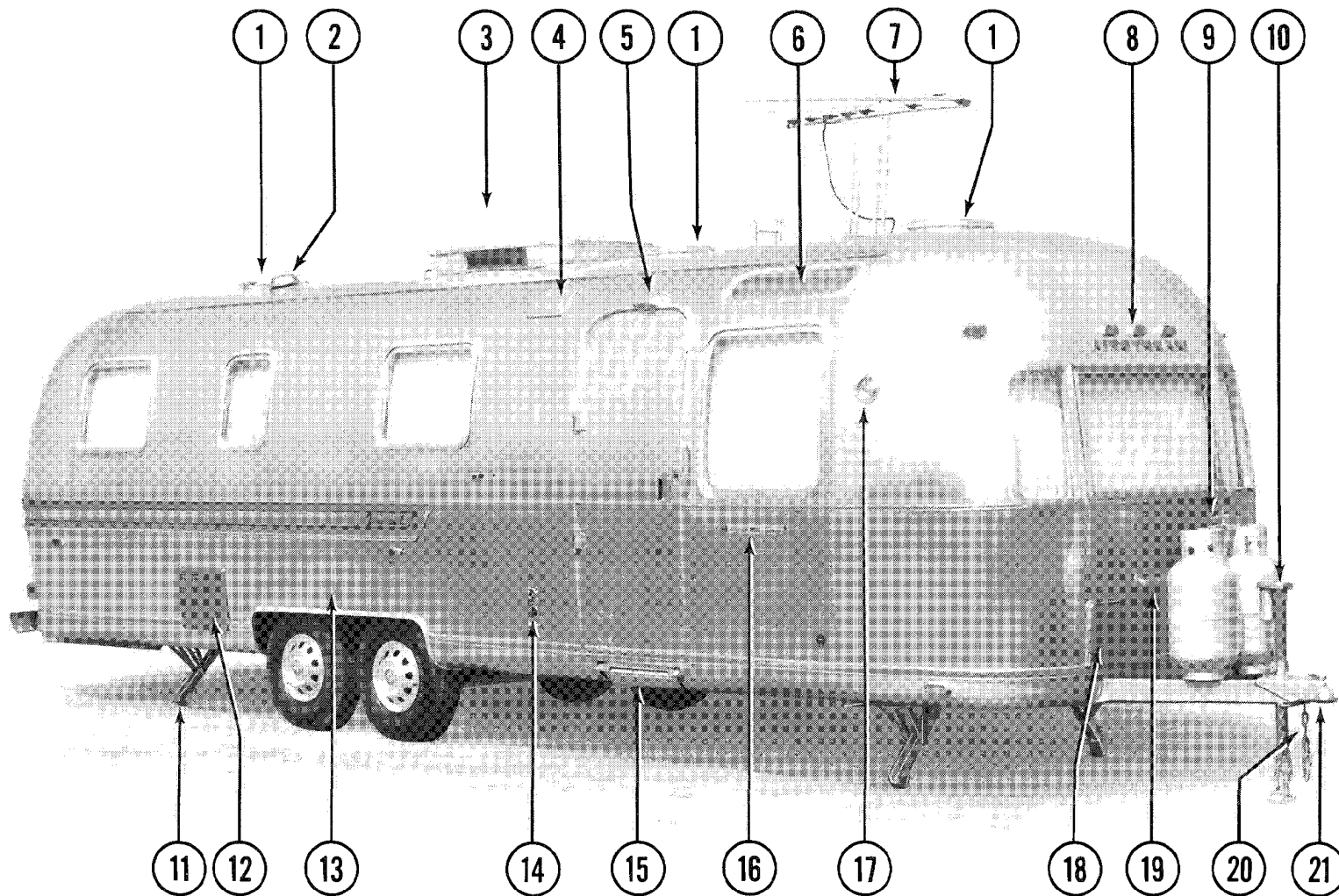
13. Remove any items (food, cosmetics, etc.) from trailer interior that might be damaged by freezing – or might damage the trailer if containers break.

For additional winterizing protection add a nontoxic antifreeze (approved for drinking water systems) to the water lines using the following procedure:

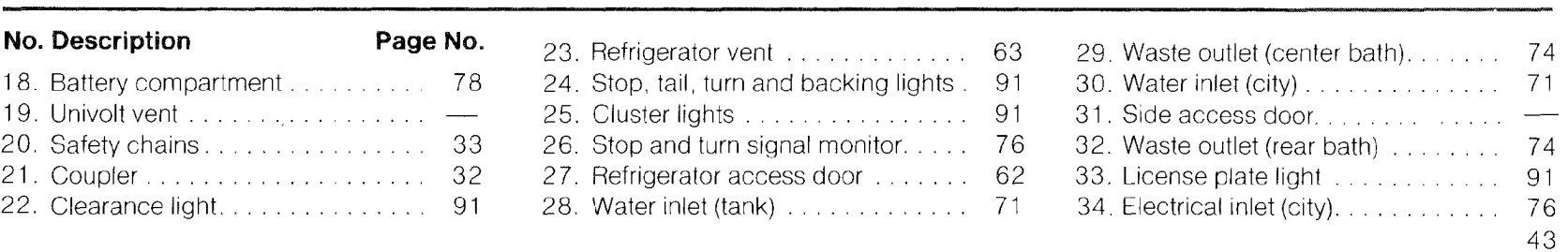
1. Reconnect all lines except the hose to the pump inlet port. Close all drain valves (see step No. 3).
2. Attach a length of hose to the pump inlet port. This piece of hose should be long enough for the free end to be inserted into and reach the bottom of the antifreeze container.
3. Dilute the antifreeze solution in accordance with the manufacturer's instructions.
4. Open all water faucets.
5. Insert hose length into the antifreeze container, turn the pump switch on, and run the water pump until the antifreeze solution fills all water lines and the water heater. Flush toilet, work hand spray while holding down in bowl. Work hand shower spray while holding down in tub.
6. Shut off the pump and close all faucets.
7. Disconnect the hose length from pump inlet fitting and reconnect water system inlet line.

Note: If you wish to bypass your water heater in order to cut down on the amount of antifreeze necessary, you may purchase a kit for this purpose from a Wally Byam Store or order it through the Wally Byam Catalog.

Exterior Identifications



No.	Description	Page No.		
1.	Roof vent	57	6.	Vista view window (optional) 45
2.	Bathroom exhaust fan	58	7.	T.V. antenna (optional) 45
3.	Air conditioner (optional)	56	8.	Cluster lights 91
4.	Range exhaust vent	67	9.	L.P.G. tanks and regulator 60
5.	Main door light	91	10.	Electric jack 31
			11.	B.A.L. stabilizing jacks (optional) 38
			12.	Water heater access panel 70
			13.	120 volt outlet 76
			14.	Furnace vent 68
			15.	Main door step 44
			16.	Serial number plate —
			17.	Exterior light 91



Exterior

The Airstream exterior has been covered by an acrylic lacquer finish providing years of environmental protection. Washing the exterior of your Airstream is similar to washing an automobile. Both have high quality finishes and certain precautions must be taken to protect them. Oil, grease, dust, and dirt may be removed by washing with any mild nonabrasive soap or detergent. Automatic dishwasher detergents and acid etch cleaners are too strong and should never be used. **Always clean your Airstream in the shade or on a cloudy day when the aluminum skin is cool.** Cleaning should be followed by a thorough clean water rinse. Spots and streaks may be prevented by drying the unit with a chamois or a soft cloth.

After cleaning and drying, a good grade of nonabrasive automotive paste or liquid wax will increase the life of the finish, especially in coastal areas where the finish is exposed to salt air or in polluted industrial areas. It will also protect the shell from minor scratches and make subsequent cleaning easier. Wax should normally be applied every three to six months. The first application should not be sooner than 90 days after purchase to allow acrylic finish to cure.

It is important to remove sap, seeds, gum, resin, asphalt, etc., as soon as possible after they appear by washing and rewaxing. Sunlight and time will bake-harden these materials making them almost impossible to remove without heavy buffing. If asphalt remains on the trailer after washing, use a small amount of kerosene on a rag and wipe the spots individually, being

careful not to scratch the aluminum.

For small areas of damage to the acrylic protective coating, or where oxidation is beginning to occur, remove all traces of the acrylic coating with a good grade of lacquer solvent and then thoroughly clean the aluminum with an aluminum cleaner. Re-spray the area with clear acrylic lacquer.

All items needed for these minor repairs to the exterior shell are available at Wally Byam Stores. For extensive refinishing we recommend that you contact an Airstream Service Center or the factory for instructions. To keep your trailer looking new, paint the "A" frame, L.P.G. tanks, and rear frame periodically, by brushing on aluminum lacquer or, if possible, by spraying.

Each time you connect the **7-way electrical connector** check for dirt and corrosion. Keep the contacts clean with "Spray-Kleen."

It is important that the main door be completely closed and locked during towing. If it is not locked the constant vibration of travel may cause it to open with possible damage.

For your security the lock has been designed as a dead bolt. For this reason never try to shut the door when it is locked. The door is properly closed when the handle is firm. If the door is difficult to open, push in to release the latch. When the door swings fully open it will automatically latch against the side of the trailer.

The **screen door** secures to the main door by means of a heavy duty velcro

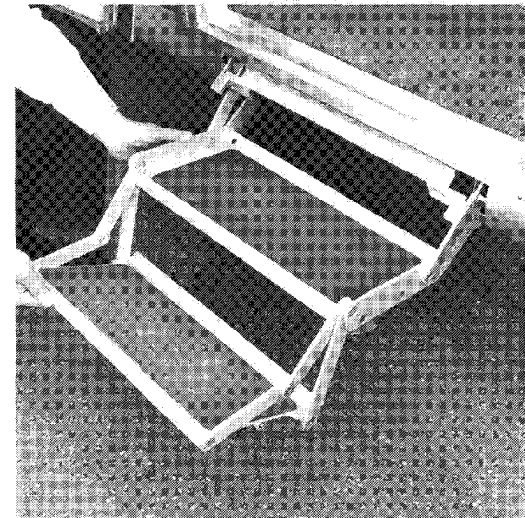


Fig. 1 — Fold-Away Step

strip. It can be operated independently by pulling it away from the main door. A sliding bolt type latch is provided to secure the door when closed.

To operate the **fold-away step** (see Fig. 1) just press down on either side of the latch bar and the step will automatically drop into position. To stow the step simply lift the front edge and then push it up under the trailer to its stowed position.

The optional **extension step** (see Fig. 1) is permanently attached to the main step and when needed it is simply flipped out.

Never travel with step lowered.

The **exterior windows** in your trailer are of heat strengthened safety plate glass. To open swing out windows, release the two lever locks at the bottom, pull the two side operator handles toward the center and



Fig. 2—Window Operation

pull down until the window is in the desired position (see Fig. 2) then place the operators into one of the five positioning recesses in the frame. To close: pull the two side operator handles toward the center and slowly lift until window is closed. To secure, turn the two lock handles until the lock pawls are in the vertical position, then press the handles downward as far as they will go.

The optional high strength safety glass **front center window** is cleaned in the same manner that ordinary windows are. Clean the seals with a damp cloth or mild detergent every three to six months taking care not to use strong solvents as they will damage the seals. A coat of natural silicone lubricant applied after the seal has dried will keep it flexible. Spread the lubricant evenly with a brush or finger, working it into

the surface. This is a good practice for all rubber seals in your Airstream. For replacement of a damaged window contact an Airstream Service Center or the factory.

The **optional double paned side windows** include metalized mylar tint. They eliminate the need for storm windows and improve the efficiency of the air conditioning system.

Screens are made of plastic for hard wear and easy maintenance. Clean with a damp cloth. **Note: They will melt at the point of contact if touched by a cigarette.**

Vista view windows are double paned, allow for interior lighting while maintaining privacy and are equipped with integral shades.

Factory recommended awnings give shade during trips and rallies. They are easy to operate and can be installed by your dealer.

The aluminum construction of your trailer creates a radio-shield and you will need outside antennas for good reception. This can be accomplished by a whip radio antenna or T.V. antenna with an auto coupler.

An **auto coupler** (optional) enables you to utilize your T.V. antenna for AM-FM radio reception.

A telescoping whip **radio antenna** (optional) is available for the optional 12-volt AM-FM radio and should be professionally

installed next to the front window roadside of your trailer on a swivel mount.

The controls for the optional **T.V. antenna** are in the ceiling directly below the antenna. To raise the antenna, turn hand crank clockwise until it stops. Then turn on TV set and select channel. While watching picture, reverse the handle approximately ½ turn, push handle up toward the ceiling, hold in that position and rotate antenna. If you hit a stop in rotation before the picture is clear, reverse rotation. You may have to readjust when changing channels. To close, reverse the direction of cranking. Before traveling, check outside that the antenna is folded and pointed straight forward.

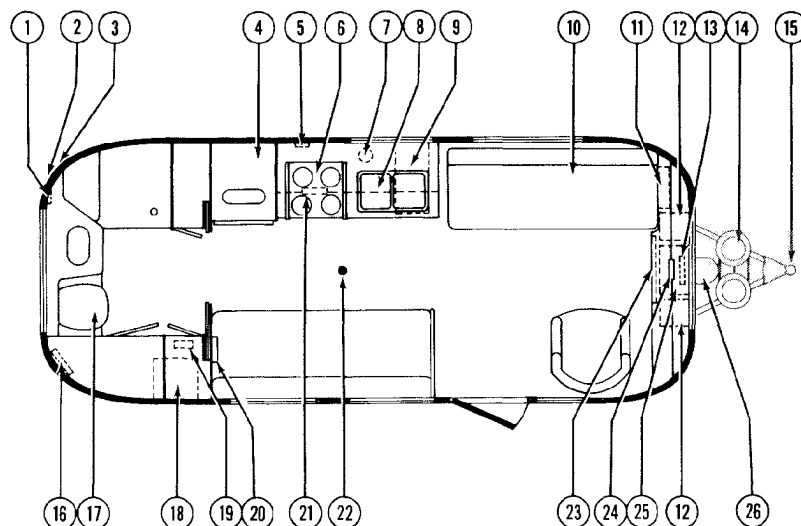
The optional motorized T.V. antenna has a control panel located on the curb side wall just above the arm rest. A two position rocker type switch is used to control the antenna. When the upper portion of the switch is pushed, the antenna raises to the full "up" position then starts to turn in a clockwise direction. When the strongest signal point is reached, antenna rotation is stopped by pushing the bottom portion of the switch rocker to bring it to the center or "off" position. Counter clockwise rotation and antenna lowering are accomplished by pushing the rocker bottom portion all the way in. A green light on the switch panel indicates when antenna is in motion. The antenna must be fully stowed for travel.

An auto coupler (optional) enables you to utilize your T.V. antenna for AM-FM radio reception.

Floor Plans

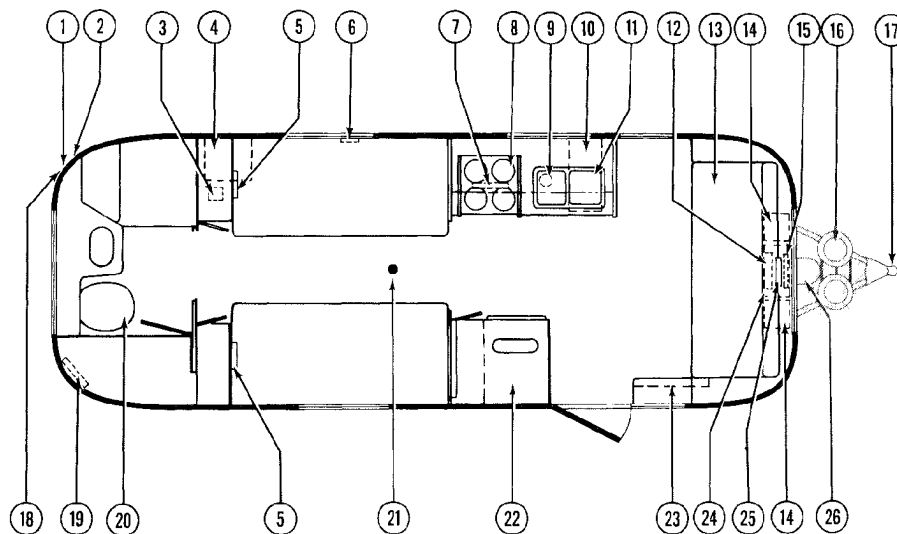
No.	Description	Page No.
1.	Electrical inlet-city	76
2.	Waste outlet.	74
3.	Water inlet-city	71
4.	Refrigerator	62
5.	Water inlet-tank	71
6.	Range and oven	66
7.	Water filter	71
8.	Sink	56
9.	Furnace	68
10.	Side pull out lounge	52
11.	Stereo AM/FM radio/tape (optional).	55-56
12.	Battery.	78
13.	12 volt distribution panel	88
14.	L.P.G. tanks and regulator.	60
15.	Hitch	31
16.	120 volt circuit breaker panel.	77
17.	Toilet	75
18.	Water heater	70
19.	Water pump.	71
20.	Bed light	57
21.	Central control panel (optional).	89
22.	Air conditioner (optional)	56
23.	Table	53
24.	Clock (optional)	55
25.	Univolt	76
26.	Power brake booster (optional)	18

23 Ft.

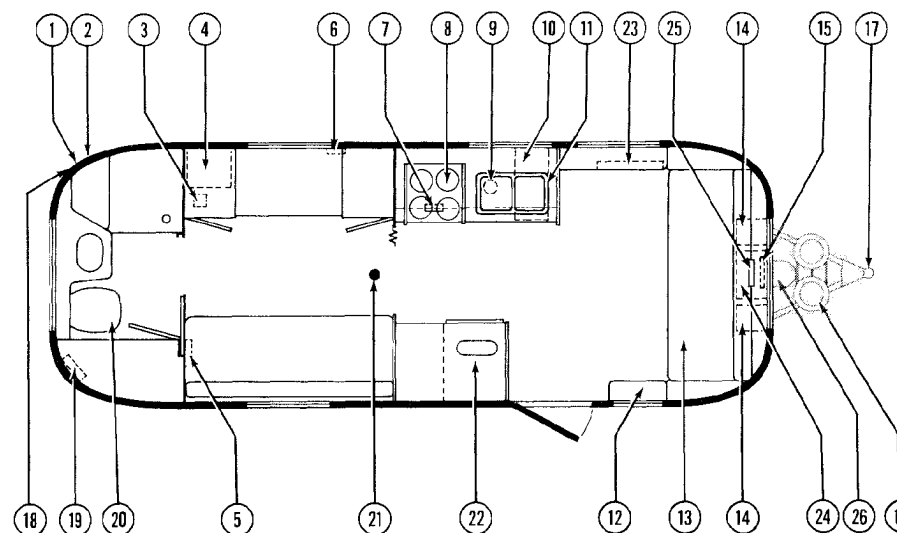


No.	Description	Page No.
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7.	Central control panel (optional)	89
8.	Range and oven	66
9.	Water filter	71
10.	Furnace	68
11.	Sink	56
12.	Stereo AM /FM radio/tape (optional)	55-56
13.	Front lounge	52
14.	Battery	78
15.	12 volt distribution panel	88
16.	L.P.G. tanks and regulator	60
17.	Hitch	31
18.	Electrical inlet-city	76
19.	120 volt circuit breaker panel	77
20.	Toilet	75
21.	Air conditioner (optional)	56
22.	Refrigerator	62
23.	Table	53
24.	Univolt	76
25.	Clock (optional)	55
26.	Power brake booster (optional)	18

25 Ft. Twin — Rear Bath

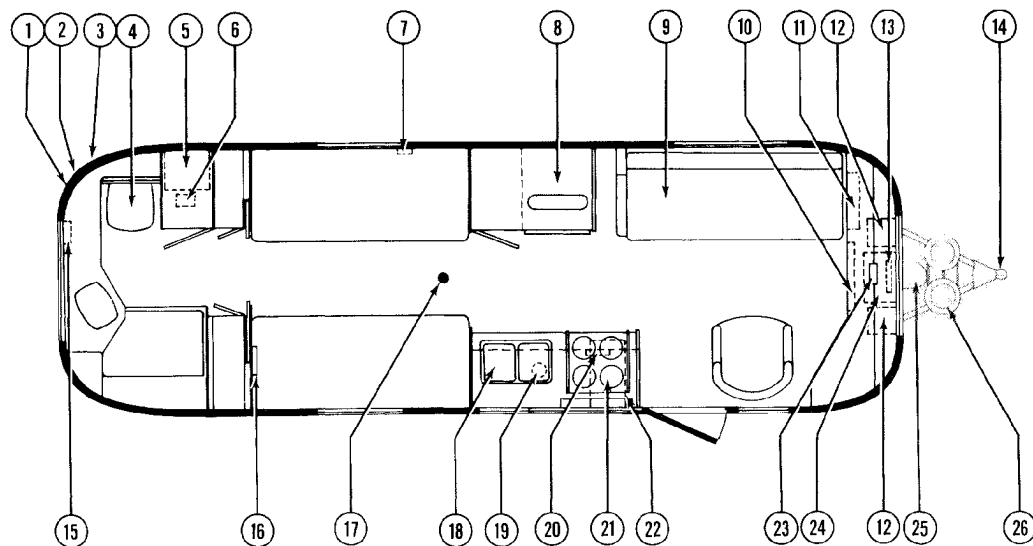


25 Ft. Double — Rear Bath

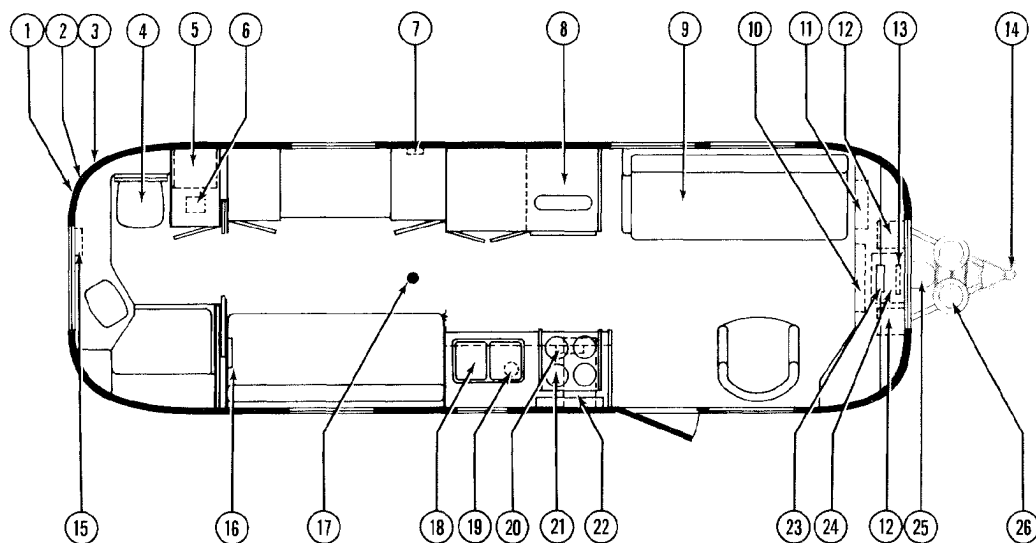


No.	Description	Page No.
1.	Electrical inlet-city	76
2.	Water inlet-city	71
3.	Waste outlet	74
4.	Toilet	75
5.	Water heater	70
6.	Water pump	71
7.	Water inlet-tank	71
8.	Refrigerator	62
9.	Front lounge	52
10.	Table	53
11.	Stereo AM/FM radio/tape (optional)	55-56
12.	Battery	78
13.	12 volt distribution panel	88
14.	Hitch	31
15.	120 volt circuit breaker panel	77
16.	Bed light	57
17.	Air conditioner (optional)	56
18.	Sink	56
19.	Water filter	71
20.	Central control panel (optional)	89
21.	Range and oven	66
22.	Furnace	68
23.	Clock (optional)	55
24.	Univolt	76
25.	Power brake booster	18
26.	L.P.G. tanks and regulator	60

28 Ft. Twin — Rear Bath

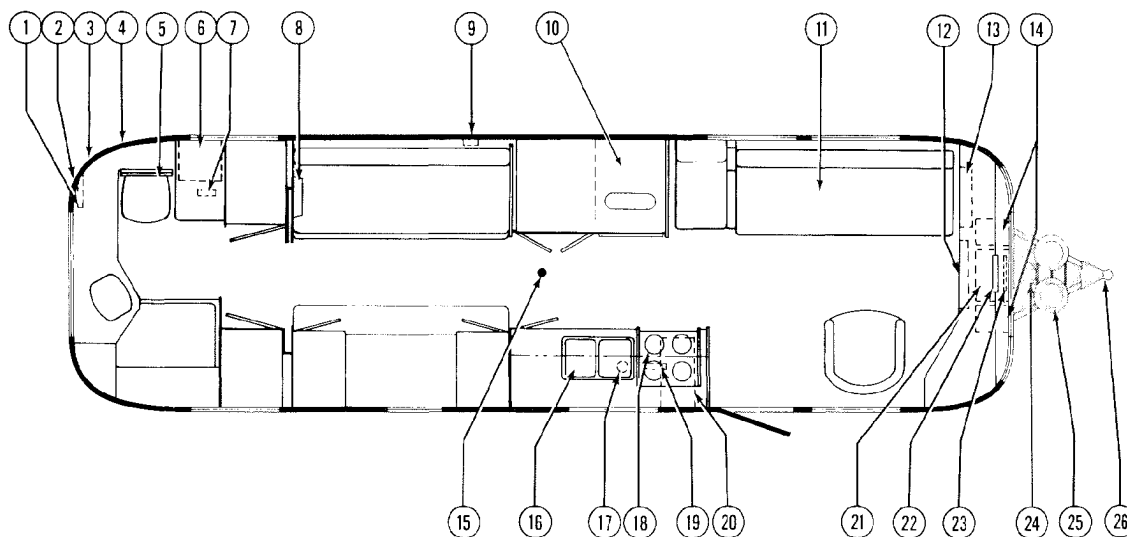


28 Ft. Double — Rear Bath

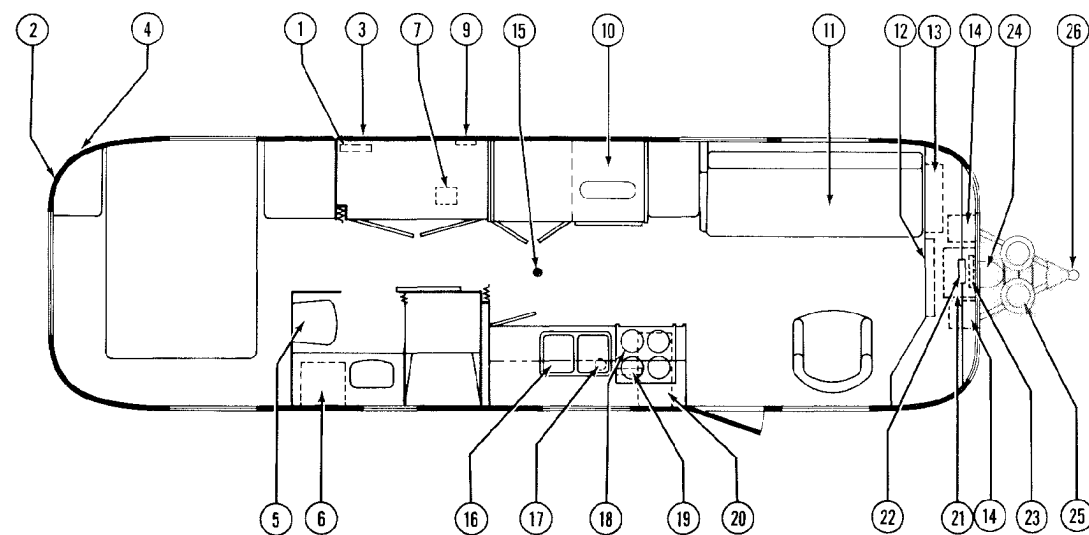


No.	Description	Page No.
1.	120 volt circuit breaker panel	77
2.	Electrical inlet-city	76
3.	Waste outlet	74
4.	Water inlet-city	71
5.	Toilet	75
6.	Water heater	70
7.	Water pump	71
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11.	Front lounge	52
12.	Table	53
13.	Stereo AM/FM radio/tape (optional).	55-56
14.	Battery	78
15.	Air conditioner (optional)	56
16.	Sink	56
17.	Water filter	71
18.	Range and oven	66
19.	Central control panel (optional). . .	89
20.	Furnace	68
21.	Univolt	76
22.	Clock (optional)	55
23.	12 volt distribution panel	88
24.	Power brake booster	18
25.	L.P.G. tanks and regulator	60
26.	Hitch	31

31 Ft. Twin and Double — Rear Bath



31 Ft. Twin and Double — Center Bath



Interior

The Airstream interior has been designed for comfort, convenience, durability and appearance. How you use it and how you take care of it naturally depends on you. However, if you learn how to operate the interior components and take care of them and the trailer properly, this knowledge will add to your pleasure as well as the long life of your trailer.

Following is a list of upholstery materials used in 1979 Airstream trailers. All materials should be professionally dry cleaned to remove any overall soiled condition. These materials may be spot cleaned, however, using the cleanability code instructions as listed.

1979 Airstream

Fabric Name	Cleaning Code
Whitney Celedon	WS
Veronica - Brass	S
Ny-Crest - Fawn	S
Kenilworth - Navy	WS
Ventura - Henna	WS
Casablanca - R	S
Ultra/R	S

Cleanability Codes

Code W-S

Fabric Care. Spot clean this fabric either with a mild solvent or a water-based cleaning agent. When using a solvent or dry cleaning product follow instructions carefully and clean only in a well ventilated room. Avoid any product which contains highly toxic carbon tetrachloride. You may also use an upholstery shampoo product or the foam from a mild detergent. With either



method, pre-test small area before proceeding. Use a professional furniture cleaner when an overall soiled condition is reached.

CAUTION: Never remove cushion covers for separate dry-cleaning or washing. Any tumble cleaning method can destroy the backing, shrink or otherwise damage upholstery fabric.

Code X

Fabric Care. Clean this fabric only by vacuuming or light brushing to prevent accumulation of dust or grime. Water-based foam or solvent-based cleaning agents of any kind may cause excessive shrinking, fading or possible pile distortion. The above code was designated by the manufacturer of the fabric.

CAUTION: Never remove cushion covers for separate dry-cleaning or washing. Any tumble cleaning method can destroy the backing, shrink or otherwise damage upholstery fabric.

Code S

Fabric Care. Spot clean, using a mild, water-free solvent or dry cleaning product. Carefully follow instructions on such product. Clean only in a well-ventilated room. Avoid any product containing carbon tetrachloride which is highly toxic. Pre-test small area before proceeding. Use a professional furniture cleaner when an overall soiled condition is reached.

CAUTION: Never remove cushion cover for separate dry-cleaning or washing. Any tumble cleaning method can destroy the backing, shrink or otherwise damage upholstery fabric.

Code W

Fabric Care. Spot clean, using the foam only from a water-based cleaning agent, such as a mild detergent or non-solvent upholstery shampoo product. Apply foam with a soft brush in a circular motion. Vacuum when dry. Pre-test small area before proceeding. Use a professional furniture cleaner when an overall soiled condition is reached. The above code was designed by the manufacturer of the fabric.

CAUTION: Never remove cushion cover for separate dry-cleaning or washing. Any tumble cleaning method can destroy the backing, shrink or otherwise damage upholstery fabric.

Smoking Warning

Keep your furniture and family safe from fires caused by careless smoking. Do not smoke when drowsy. Remove immediately any flowing ash or a lighted cigarette which falls on furniture.

Smoldering smoking material can cause upholstered furniture fires.

All drapery materials and mattress covers must be professionally dry cleaned.

Use the following procedure to remove drapery panels for cleaning:

1. Front lounge, both roadside and curbside — unsnap the dot fasteners holding the lower and the upper front and rear corners to the outer wall. Slide drapery panels to the rear until they are completely free of both tracks.
2. Front wrap around drapes — first remove rearmost lounge panels; see step 1 above. Unsnap dot fastener holding

the corners of the curbside and roadside wraparound panels to the outer trailer walls. Slide the drapery panels to the rear until they are completely free of upper tracks. Continue to slide to the rear until they are also free of the lower track.

3. Side bedroom windows, both roadside and curbside — unsnap the dot fasteners holding the lower and upper front and rear corner to the outer wall. Remove drapery panels by sliding them clear of both upper and lower track

After replacing drapes, reinstall dot fasteners using a pop rivet of correct diameter.

The carpet can be cleaned with any good commercial carpet cleaner, or with a detergent and water. **Be careful not to soak the carpet with water, however.**

The counter areas around the sink are of a high-pressure laminate and can be cleaned with soap and water, or you can use a common cleaning solvent on tough spots. Be sure no abrasive cleaner is used as there is the possibility it could scratch the surface. A protective pad should always be placed under hot utensils.

The walls can be cleaned with any vinyl cleaner or with any mild household detergent and water. But, again, no abrasives.

The high-pressure laminate wood of the wardrobes and cabinets may be waxed, if desired, or may be cleaned simply with a damp cloth.

See the bathroom section for cleaning and maintenance suggestions for the ABS plastic surfaces.

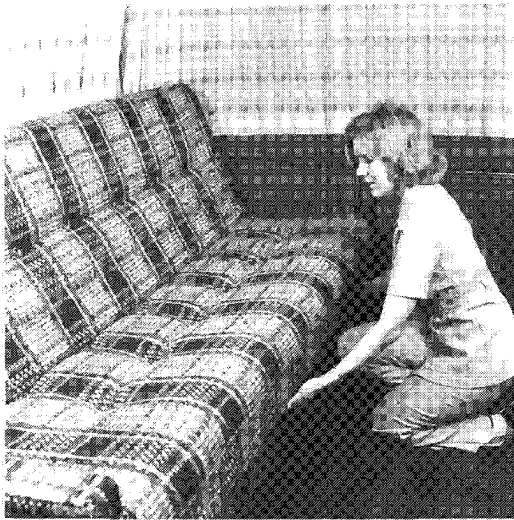


Fig. 1 – Lounge Into Bed

To convert the lounge into a bed, grasp the front edge of the seat lift up slightly and pull lounge assembly out until it stops and the lounge back is in a horizontal position.

To return bed to lounge position, push lounge back toward wall until seat back is in upright position.


The **below bed storage** is available on fixed twin and double models for additional storage of bedding and linen or fishing and hunting gear.

An optional **space locker** attached to the roof lockers is available for additional storage space for bedding, etc. in the bedroom.



Fig. 2

All the cabinet drawers are removable allowing you storage flexibility and ease of packing and unpacking. Wardrobe catches are self-locking.

When attaching wall hung improvements, like hooks for clothing, bookshelves and extra towel racks, secure with half-inch No. 8 sheet metal screws  with flat binder heads, make holes in the aluminum inner walls with a small drill bit (No. 30)

The **bunk beds** (optional), located in the bedroom, serve as the back bolster for the bed when not in use. In order to place bunk into sleeping position:

1. Depress latch located on the center back side of the bolster.
2. With latch depressed pull up on fabric loop located on the center front bottom



Fig. 3

of bolster. This will allow bolster filler to hinge down.

3. Bring bolster filler up to horizontal position and attach both straps to bracket on ceiling.

To lower bunk:

1. Release straps.
2. Rotate bolster filler into latched position.
3. Lower bolster down against wall.

Make beds in the usual way, using fitted sheets $\frac{3}{4}$ bed size.

To make fixed twin beds, lift mattress slightly, pull it away from the wall and then tuck bedding along wall.



Fig. 1—Table Opening

To open the table, lift the table into a horizontal position (see Fig. 1), and pull the folding leg down until it locks in position. (See Fig. 2.) To extend the table lift the table and leg slightly off the floor and pull the extension and leg out as far as they will go. Release the catch on the extension table leaf and rotate it over onto the extension. (See Fig. 3.) By raising the leg the entire table can be moved from side to side for your seating comfort.

To stow simply reverse the procedure and drop the table to the wall. Additional storage is provided behind the table compartment.

To stow, simply release the catch holding leg in upright position, then reverse the procedure and drop the table to the wall.

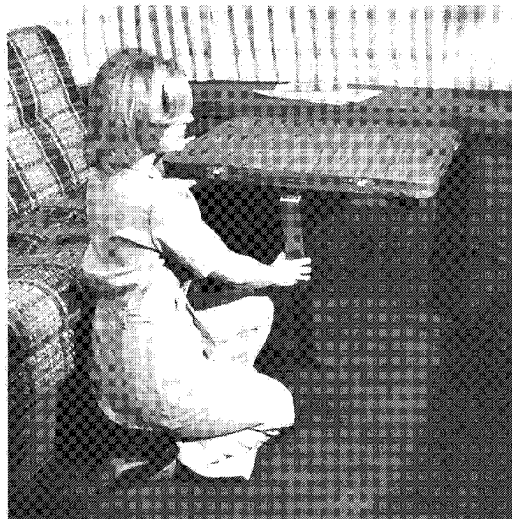


Fig. 2

The area above the refrigerator and refrigerator cabinet incorporates a built-in **china cabinet** for the handy storage of dishes and glassware. Decorative cane panel by-pass sliding doors provide easy access and their design compliments the overall interior decor. Doors are easily removed for cleaning or repair, simply lift up and tilt out at bottom.

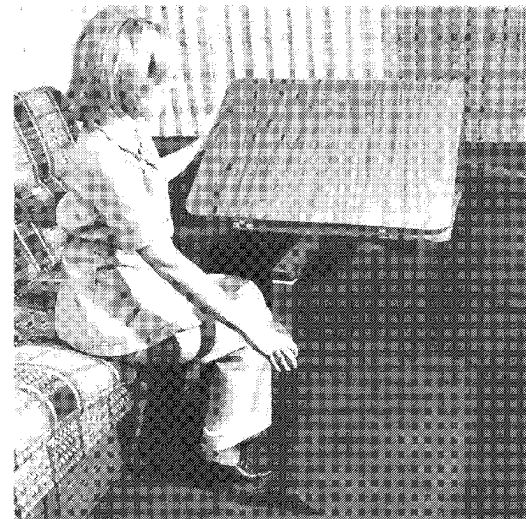


Fig. 3



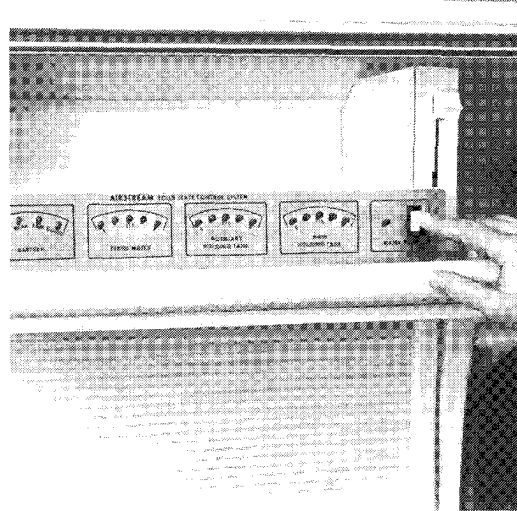
China Cabinet

The **optional solid state Central Control Panel**, located in the galley rooflocker of your unit, contains the necessary instrumentation to monitor your Airstream's systems.

The **panel display** button lights up the indicator lights. The AC power light indicates that you are operating on 120V AC.

The **battery condition tester lights** indicate whether the trailer batteries are in good, fair, weak or bad condition. When they show weak or bad condition, you should take every reasonable step to conserve power by using as few lights as possible and switching off appliances. The battery should be charged as soon as practical with the tow vehicle charging system or by connection to 120 volt power

The charging system in your trailer is much like the charging system in your car. The univolt package performs a similar function to the car alternator by constantly recharging your battery as power is used. It is important to remember, however, that if the total current draw is greater than the univolt's capacity to recharge, your battery may become discharged even though the univolt is attempting to keep it charged. In this event, it will be necessary to reduce current usage.

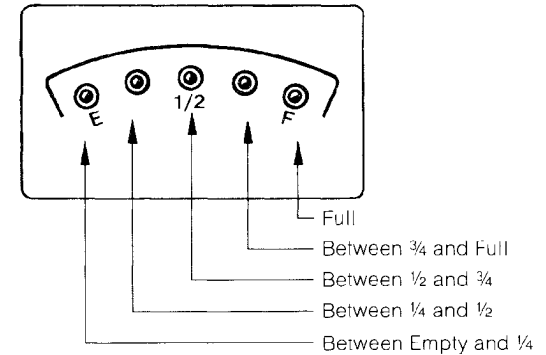


Solid State Central Control System Panel

The **water pump switch**, when on, also lights the indicator light. On trailers without a Central Control Panel, this switch is located in the galley area. For a complete discussion of the pump, please refer to page 73.

The **water tank, main holding tank and auxiliary holding tank indicator lights** show the amount of liquid in their respective tanks. Measurements are made by means of a series of electronically controlled probes located at various levels in each tank. The gauge lights will indicate in one of the five positions (see diagram).

Accumulation of oxides, dirt, etc. on the probes may result in inaccurate readings. In this case, empty the tank, remove probes and scrape clean. Apply sealant to



Water Tank and Holding Tank Gauges

thread area only and replace probes. Care must be taken to keep the probes free of sealant.

The **power-on light** will glow automatically when you are hooked up to city power. This light and the polarity warning light are your checks on a proper 120 volt connection.

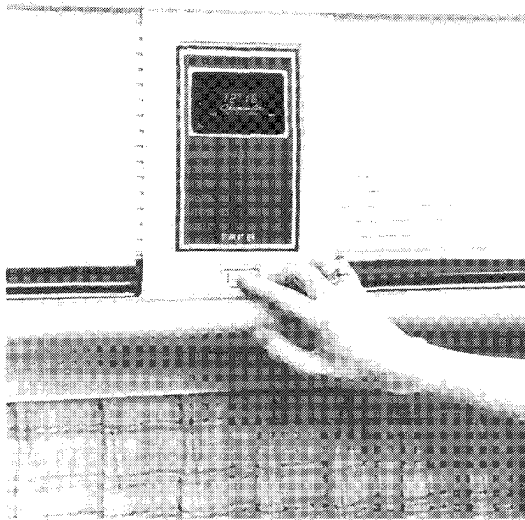


Fig. 1 – Electronic Digital Clock

The optional **electronic digital clock** operates at all times whether you are on self-contained battery power or hooked up to 120 volt city power.

To operate the clock, push display switch to ON. To set correct time, push set switch to SET MINUTES and then to SET HOURS.

To conserve electricity, the display switch may be turned OFF. (See Fig. 1.) The correct time is held in memory until the display is turned back on. If, when the display is turned back on, the time shown is incorrect, there has likely been a power interruption.

After some time you may experience what appears to be a malfunction in the set switch; that is, the displays may not turn on at all or they may "rapid fire." This is caused by dust on the switch contacts and is easily



Fig. 2 – Stereo Tape and AM/FM Radio

corrected by moving the switches back and forth 10-20 times.

A Motorola AM-FM stereo radio and combination Motorola Stereo AM-FM radio with 8 track stereo tape player are available. The "fader" control allows the front speakers to be turned on by themselves, or the rear speakers by themselves, or any combination of front and rear speakers.

Operating Instructions

1. Switch power on by pressing POWER button to "in" position. Switch power off by pressing POWER button again, releasing it to "out" position.

2. Turn SELECT control to desired mode of operation (AM, FM, FM STEREO, FMLC, or TAPE) NOTE: FMLC position is useful only in strong FM signal areas, especially where many FM stations may tend to interfere with each other. FMLC position minimizes this type of interference. For best FM reception under normal conditions the "FM STEREO" position should be used. The "FM" position is useful in fringe areas to lock receiver into monaural mode, thus eliminating stereo threshold noise.

3. Turn TUNING control to select desired station.

Stereo Operation

The indicator light will go on automatically when selected FM station is broadcasting in Stereo. The light is not on when monaural broadcasts are being received, or when a stereo signal drops below a predetermined level. The radio is designed to reproduce weak stereo signals monaurally to provide more noise free reception. When the signal increases beyond the threshold level, the stereo indicator will light again.

Tape Deck Operation

Insert tape cartridge into slot (behind hinged panel, see Fig. 2) to a fully seated position to switch tape deck on. Receiver SELECT switch must be in TAPE position to operate tape deck. Retracting tape cartridge approximately one inch from seated position or removing tape cartridge completely switches tape deck off.

The program indicator lights indicate which tape program is playing.

When REPEAT button is in "IN" position, the tape deck will continue playing the same program that is playing until another program is selected or button is released to "OUT" position.

Press and release PROGRAM button to position tape deck pick-up head to the next program on the tape. NOTE: If PROGRAM selector feature is not used, the four programs will play in sequence except when "REPEAT" button is in "REPEAT" position. The tape deck will play continuously in this manner until tape cartridge is pulled out from its seated position.

Store tapes in a cool area with open end down. Protect tapes from dust and direct sunlight.

In time, oxide from recording tape will accumulate on the tape head and capstan shaft which can cause tape hiss and erratic operation. The more often the tape player is used, the more often it should be cleaned.

Clean the head with a cotton swab moistened with isopropyl alcohol. **Do not use carbon tetrachloride.**

To clean the capstan shaft, first turn on the motor by depressing the motor switch (next to the capstan shaft) with the eraser end of a pencil. Use a cotton swab moistened with alcohol on the shaft.

The fuse for the radio, or radio/tape is located behind the unit. To gain access to the fuse, carefully pry off the metalized plastic front bezel of radio unit. Remove four attaching screws and slide unit out.

The **Armstrong air conditioner** can be used for cooling or heating your trailer or for air circulation only.

To operate for cooling:

1. Make sure you are connected to 120V AC supply. Close doors, windows and ventilator.
2. Set wall thermostat to "COOL" position and set thermostat indicator to your desired comfort level.
3. Set system switch (located at ceiling cover of air conditioner) to your preferred speed setting.

Note: The air conditioner will not operate until speed selection is made. The recommended cooling speeds for various outdoor temperature ranges are:

Hi-Cool	70-120
Med-Cool	60-110
Lo-Cool	50-100

To operate for heating:

1. Set wall thermostat to "HEAT" position and set thermostat indicator to your desired comfort level.
2. Set system switch to your preferred speed setting. We suggest MED or LO speed.

Note: The heater will not operate until speed selection is made.

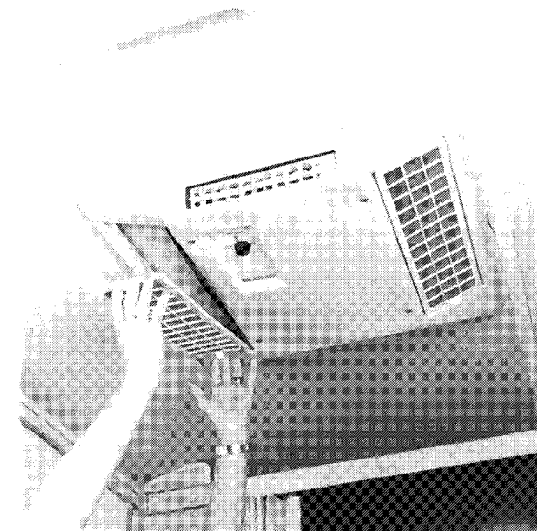
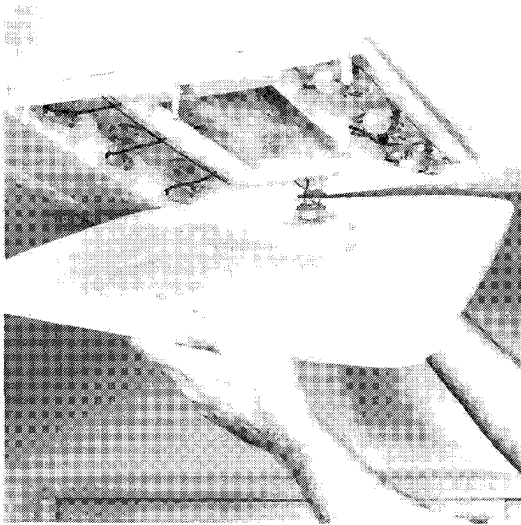


Fig. 4—Air Conditioner Ducts and Filter

To use for air circulation, set wall thermostat to "OFF" position and system switch to any of the three speed selections. To shut unit off, set system switch to OFF position.

Shut unit off to clean or replace filters. Clean both filters with vacuum cleaner once a week. Once a month, remove filters and wash in warm soapy water. (See Fig. 4)

Stainless steel sinks cannot be harmed by boiling water. However, salt, mustard, mayonnaise and ketchup can cause pitting. Stubborn stains will yield to a paste made of water and slightly abrasive household cleaner. Be sure to work in the direction of the polish-lines on the steel, to keep



Ceiling Light Fixture

the original finish. Fingerprints are sometimes a problem. They can be minimized by applying a cleaner that leaves a film of thin wax: simply wipe it on and remove the excess with a dry cloth. After this, fingerprints can be wiped off with a soft dry cloth, or one moistened with a little wax cleaner. The surface should always be washed before wax is applied. Regular cleaning will prevent buildup of scale and film. Ordinary soaps or detergents are best for routine cleaning of the stainless steel sinks. Rinse thoroughly with warm water and wipe dry with a cloth to avoid streaks and spots.

For further information on galley equipment refer to page 62 for the refrigerator and page 66 for the range and oven.

Bed-lights are operated by a switch in the center of the lens. To replace bulbs remove 2 screws from ends of the top frame and snap the lens out by gently squeezing the sides of each end while carefully pulling the lens out of the fixture. Area lights have switches on the rim and their lenses are removed in the same manner.

Round ceiling lights, pull off center switch knob. Remove collar nut from switch, remove lens.

Ceiling light fixtures are incorporated with the ceiling fresh air vents. To operate the lights turn the control knob clockwise; first position 2 lights, second position 4 lights, third position 6 lights, fourth position is off.

To remove the lens and replace the bulbs, pull knob from light switch shaft and remove shaft nut. Remove the screw from the vent control handle and remove handle. (Knob on light assemblies without vent.) Remove 4 screws holding lens to vent frame, this will release the lens. To replace, reverse removal procedure.

The **fresh air vents** are operated by the control handle. Turning clockwise will raise the vent and at the maximum extension, vents with fans will automatically turn on. For maximum air without fan, open until fan starts and back up just enough to turn fan off. Turning counterclockwise will close the vent. Airstream vents are designed to allow air circulation while still keeping out rain and can be used in any weather. Screens should be removed for periodic cleaning.

Galley and vanity lights, gently squeeze lens and pull down to remove. These lights are operated by a remote switch on wall.

Bathroom light, remove screws holding lens to backing plate, remove lens. Lights are operated by a switch on wall above lavatory.

The optional **NuTone Food Center** allows you to operate several appliances with just one built-in power unit. The food center is equipped with three attachments, mixer, blender, and knife sharpener. Other appliance attachments are available.

Your power unit was oiled at the time of manufacture but a storage period may have permitted oil to drain back into the reservoir. Before using it for the first time, please run the power unit for one to two minutes to insure lubrication. . . before attaching an appliance. At intervals of from one to two months, depending on the amount of use, a few drops of ordinary household oil should be placed around the motor shaft opening.

The unit will warm up in proportion to the length of time it's run and the load it carries. If you run it unusually long or hard, give it a rest before putting it to work again.

The **mixer** was designed for convenience and efficient operation. The bowl rests on a turntable directly connected to power unit. The motor, not the beater, turns the bowl — automatically keeps it revolving during mixing, regardless of the consistency of the batter. This feature eliminates hand-turning the bowl. And, while the bowl revolves automatically, the beater turns in the opposite direction. This 'counter-motion' feature helps prevent lumpy, incomplete mixing.

To operate the mixer:

1. Place turntable in position on the power unit.
2. Lock the turntable in place by pressing the locking lever clockwise.
3. Place the mixing bowl on the turntable.
4. Push the beater blade into the beater head. Blade will 'click' when it's locked in position.
5. Insert beater head shaft into center tube of bowl. Place it in one of six positions until it snaps into turntable.
6. Turn dial to desired speed.

NOTE: To remove beater head, turn counterclockwise, and lift it out of mixing bowl. If the turntable should become locked into power unit and cannot be easily removed, insert beater head and turn it counterclockwise.

The **blender** makes meal preparation and entertaining less work and more fun. It performs, quickly and easily the time consuming and tiring tasks of grating, chopping, shredding and mincing; it even liquifies solids and blends them to perfection.

To operate the blender:

1. Place blender in position on power unit, and turn clockwise to lock securely in place. **Never attempt to place blender or any other attachment in position while power unit is running.**
2. Put food in blender. Turn dial to desired speed. Or. . .
3. When adding solids, cover, then turn dial to desired speed. Remove insert from lid. Add food through opening while blades are in motion.

4. To remove contents from blender, use a long-handled rubber bottle and jar scraper or a wooden spoon or fork. Don't use a metal spatula or spoon.

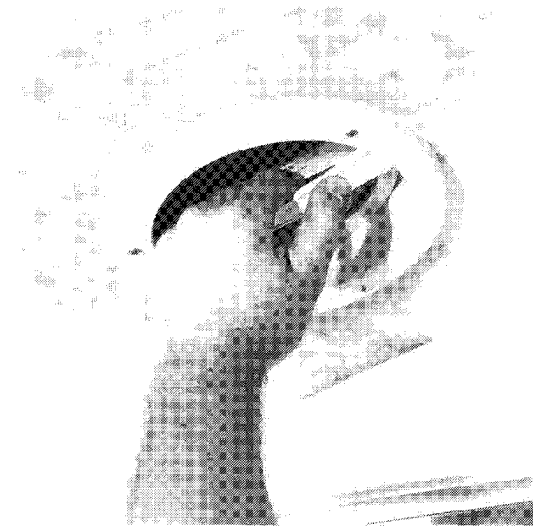
The **knife sharpener** will allow you to sharpen your knives in just seconds.

To operate the knife sharpener:

1. Place sharpener in power unit; turn clockwise to lock in position. Be sure sharpening stone is on left as you face the knife sharpener.
2. Turn control dial to speed 3. Be sure knife is clean and dry.
3. Place heel of knife blade into guide slot next to sharpening stone (left or right). Hold knife firmly by the handle and draw it slowly toward you with cutting edge against stone. Allow weight of the knife and the guide slot to apply necessary pressure and positioning.
4. Repeat operation, alternating to left and right side of stone with each stroke, until desired sharpness is obtained.

Don't sharpen knives which have an irregular edge such as serrated, scalloped, fluted, corrugated or hollow edges... and don't sharpen scissors. **Don't clean sharpener while attached to power unit. Be sure speed control dial is turned 'off' before attaching or removing sharpener.**

The **lavatory bowl, counter top, tub or shower pan** in your Airstream bathroom are made of a special ABS long-wearing, lightweight, high-strength plastic material.



Bathroom Exhaust Fan

When cleaning, use soap or detergent only – never use scouring powder. Always re wax the ABS plastic surfaces after each heavy cleaning with a good grade paste wax (without solvents or cleaners). The wax will protect the surfaces from discoloration and stains. When you first purchase your trailer, Airstream recommends that you give all ABS plastic surfaces a heavy coating of paste wax. This will assure easier cleaning and lasting beauty.

The **bathroom exhaust fan** is in the bathroom ceiling and is operated by pushing up on the handle running across the fan opening and turning on the switch located on the rear wall above the sink. To shut the fan off, shut off switch and pull the handle back down.

The **telephone shower head** is designed to give maximum flexibility in usage and provide for water saving techniques when using your trailer on self-containment. It can be held in the hand and moved about the body. Normally the best water conservation procedure is to wet the entire body and then turn the water off with the push button at the shower head. Apply soap, lather thoroughly, then rinse the soap off. The telephone shower head is also used to fill the tub for taking a bath. When you have finished using the shower be sure to shut the water off at the faucet. The push button is intended as a shower convenience only and should not be used as a water shut-off.

The over the mirror **light** in the bathroom is operated by a remote switch located on the rear wall above the sink. To change bulbs, remove lens.

The side mirror lights are operated by switches under the light. To remove the lens, remove the two screws, securing lens to base, remove switch.

L.P.G. System

Your Airstream is equipped with two tanks for LPG (Liquid Petroleum Gas). LPG burns with a clean blue flame. There are two basic types of LPG in common usage: **Butane and Propane.** Butane is widely used where temperatures are normally above freezing the year round and Propane is used when subfreezing temperatures are common, since Butane freezes at 32° as compared to -40° for Propane. **All of the orifices in your Airstream LPG appliances are of the universal type which will burn either fuel.**

How long a full tank of gas will last is dependent on usage. In cold weather when you are using the furnace, large amounts of hot water, and are doing extensive cooking, you will naturally use more than you will in warm weather when you may do limited cooking. On the average, with normal cooking and other appliance use, you can probably count on three weeks service from each 28-lb. tank.

Some models are equipped with an **optional automatic gas regulator.** Both tanks are connected to this regulator. When the gas is turned on, it is drawn from only one tank at a time. When the tank being used is depleted the regulator automatically switches to the full tank. An indicator on the regulator knob points toward the tank being used to give you a visual reminder when one tank is empty. Note: The tank in use is not completely empty until the red warning flag is fully visible in the indicator window. The empty tank can be removed for refilling without disturbing the tank being used. Simply close the tank valve, disconnect the empty tank and have it refilled.

The vent at the bottom of the regulator must be kept free of any obstruction. Inspect the vent opening regularly.

The LPG gas bottles are securely mounted on the front "A" frame of your trailer. **If these bottles must be removed for service or replacement,** it is important that they be reinstalled correctly in order to prevent any possibility of their falling off or becoming dislodged during travel. The following step by step procedure gives you the proper method of removing and installing these bottles:

1. Turn the knob on your automatic regulator so the arrow points to the tank opposite the one to be removed. Shut off the gas valve on the bottle to be removed. If your trailer does not have an automatic regulator, shut off the gas valve at both bottles.
2. Disconnect the rubber gas line at the bottle to be removed. (This fitting has a left hand thread and turns in the opposite direction to most threading fittings).
3. Turn the large clamping "T" handle counterclockwise until the hold down bracket is loose enough to remove the bottle.

Do Not Remove The Center Hold Down Rod.

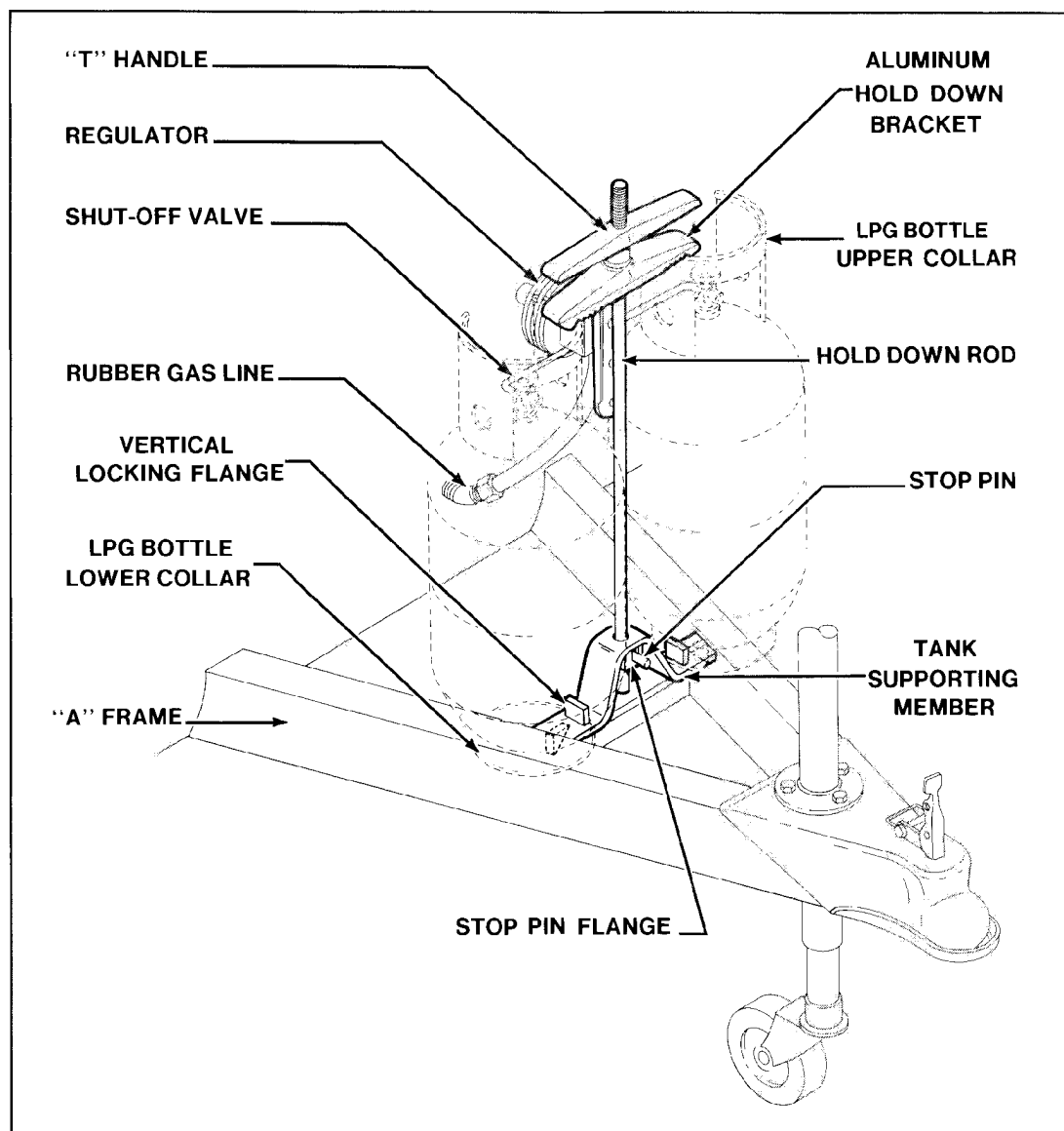


Fig. 1

To install:

1. Place the bottle in position on the "A" frame and bottle crossmember so that the vertical lock flange (See Fig. 1) projects up inside the bottle lower collar and the open gap in the upper collar faces the rear of the trailer.
2. Place the cast aluminum hold down bracket in a position so that it rests on the upper collar of both bottles with the collar rims engaged in the grooves on the underside of the bracket.
3. Make sure that the stop pin in the lower end of the hold down rod (see Fig. 1) passes through the opening in the stop pin flange and protrudes at least 1/4" past the flange front face.
4. Replace the "T" handle and tighten down until the bottles are held firmly in place.
5. Reattach rubber gas lines, turn on gas shut off valves and test all fittings for leaks. To test, paint fittings with a soap suds or detergent solution and watch for bubbles.

If you have allowed both tanks to run out, air may have gotten into the lines. In this event, the air must be forced out through the lines by gas pressure before you will be able to light the pilots. Hold a match to the pilot of the appliance closest to the tanks until it lights and stays lit. Then move to the next closest, etc. For complete appliance operating instructions, refer to page 62-70.

Close the shutoff valves on the gas tanks if you smell LP-gas, or if appliance pilot light fails to stay on.

Contact an LP gas company service man to correct the problem.

Additional information on the LPG system is available in the Airstream Service Manual.

Refrigerator

Your Airstream is equipped with an **A.G.A. approved Dometic gas-electric refrigerator**. These are the finest refrigerators available for trailer use and will give you many years of faithful service.

For best operation of this refrigerator it is important to level your trailer. Continued off-level operation may permanently damage the cooling unit. When parking try to avoid having a strong wind blowing directly against the vent outlet for most efficient operation.

Controls for both gas and electric operation are located inside the food storage compartment, at the bottom of the unit, and in the outside access compartment. See photo.

For gas operation, follow these instructions (See Fig. 1.):

1. Open refrigerator door. All controls for gas operation are located at bottom of unit.
2. To start the refrigerator turn the valve knob (A) to gas position. The gas valve is now open and the electric circuits are not in use. Set thermostat knob (C) to setting No. 4.
3. Pull knob (D) of the automatic pilot, and keep it out for 15 seconds. Press in knob (E) of the piezo lighter. The pressing may have to be repeated.
4. After the burner is lit, which can be seen through reflector window (F), keep the knob (D) pulled outward for an additional 15 seconds.
5. Release the knob (D) and check that the

burner is operating.

If the burner is not operating, repeat the lighting procedure.

After a replacement of a gas bottle or a long shut-off period the gas lines are likely to be filled with air. In such cases the lighting procedure has to be repeated until the air is pushed out of the lines and the gas has reached the burner.

As soon as the required cold temperature inside the cabinet is reached, the thermostat cuts the burner main flame to the by-pass flame sufficient to keep the safety valve open during gas operation. During electric operation the thermostat cycles the flow of the electrical current to maintain the set temperature.

Incorporated in the burner bracket is an automatic flame failure device which allows gas to pass only when the burner is lighted, keeping the thermocouple hot. Should the flame be blown out, the thermocouple will cool and the device will cut off the flow of gas to the burner.

The refrigerator is fitted with a piezo lighter which does not require flint.

For 120 volt electric operation, follow these instructions.

1. Open refrigerator door and outside access compartment door. Outside access doors are opened by unlocking and turning the handle ¼ turn counterclockwise. Controls for electric operation are lo-

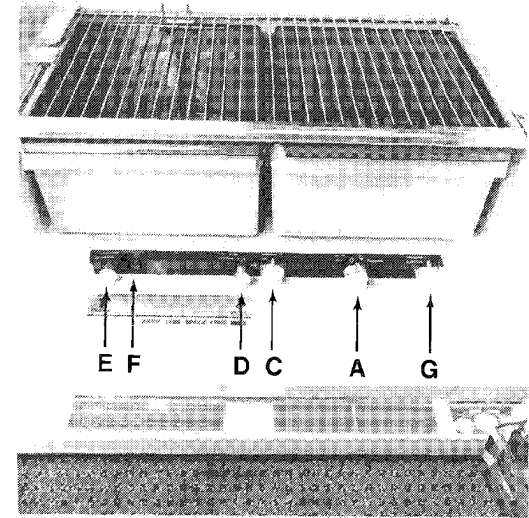


Fig. 1 – Controls Inside Refrigerator

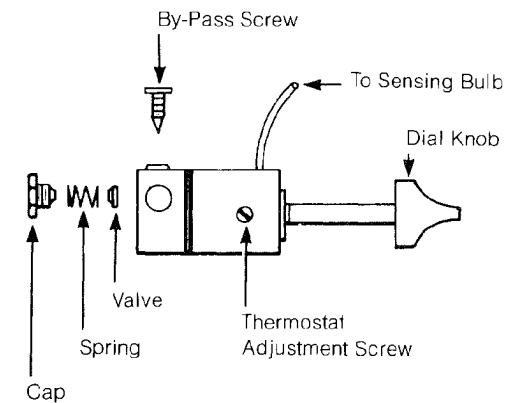


Fig. 2 – Thermostat

cated in both areas.

2. To start the refrigerator turn the valve knob (A) to the off position.
3. Plug the electrical cord into the 120 volt outlet located in the refrigerator outside access compartment.
4. Press knob (A) in, until it stops, then turn to electric position.
5. Turn the electric thermostat knob (G) to setting No. 4.

For best operation even during extended stays in parks your unit should be periodically run on gas.

The refrigerator has automatic thermostatic control of the temperature in the food storage space. The gas thermostat (C) controls the temperature during gas operation, while the electric thermostat (G) controls the temperature during electric operation. **Be sure to make the temperature setting on the correct thermostat.**

The Dometic RM100 model incorporates a unique, **fully automatic defrosting device** for the general food storage compartment, which eliminates the necessity for manual defrosting at frequent intervals normally associated with most conventional refrigerators in the medium size range. Furthermore, the time interval of each defrosting cycle, and the frequency, have been so arranged that during defrosting there is no noticeable effect upon the temperature of the foods stored in the refrigerator, and the frozen food storage conditions can be maintained at all times in the frozen storage compartment.

When cleaning, remove all food and clean the interior and all other plastic parts with warm water, and mild detergents. **Never use abrasive or caustic cleansing powders, polishes, cleaning paste, gasoline, turpentine or other solvent type cleaners.** Use a damp cloth for cleaning and finish with a soft dry cloth.

When the refrigerator is to be out of operation for some time, always leave the door slightly open or place a pie tin of barbecue charcoal on the shelf.

The following are some trouble shooting tips for emergency use only. They relate to gas operation and should normally be done by the dealer.

Problem: Flame goes out. The thermostat is out of adjustment. To adjust it, turn the dial to "zero". If the flame does not go down to the "low" by-pass setting, follow this procedure (See Fig. 2):

1. Unscrew the large cap screw at the rear of the thermostat and remove the valve. Clean the seat and valve, and replace.
2. If procedure (1) does not correct the problem, adjust the set screw out (in counterclockwise direction) until the flame goes down to the "low" position.

If the flame keeps going out when the dial is turned to (O), remove and clean the by-pass screw which is located as shown in Fig. 2.

Problem: Burner does not light. Remove and clean the burner barrel, and/or check

the gas supply.

On gas refrigerators, the flue will require occasional cleaning because an obstruction in the flue can reduce or stop flue draft. Flue obstructions can cause odors outside refrigerator, slow freezing and higher cabinet temperatures. To clean, it will be necessary to gain access to the back of the cabinet. It is recommended that you contact your Authorized Airstream Dealer for this operation.

Additional information on the Refrigerator is available in the Airstream Service Manual.

Microwave Oven

The Litton Industries' **portable microwave oven** is available as an option in your Airstream. Airstream dealers cannot service or make adjustments to the oven. This must be done by an authorized Litton Industries service agency. If you ever have problems with the oven check the list of authorized service agents. This list is packed in your microwave oven.

To operate your Litton microwave oven:

1. Open door by pushing down door release.
2. Place food in oven.
3. Select cook* or defrost**
4. Close door — cooking or defrosting cycle begins when oven door is closed. Microwave oven may be opened at any point to check food even if time is left on the dial.
5. Always turn timer back to "OFF" when food is taken out.

*For fast cooking of food when recipe calls for "MICROWAVE."

**Provides convenience for defrosting frozen foods. When microwaves first contact the outer section of the food, heat is created and conducted toward the center. Without automatic defrosting there is danger of overheating the outside of the food before the center is hot. In extreme cases, the outside of the food could be

cooking before the center is defrosting. Automatic defrosting alternates "defrost cycles" and "rest cycles." The rest cycles allow heat to be conducted toward the center providing an evenly defrosted food.

NOTE: Never operate the microwave oven unless the shelf is in place. The steam that is present during cooking and the moisture on the inside of your microwave oven are normal and nothing to worry about. The moisture is caused by the steam from the cooking food hitting a cool oven surface.

Never operate your microwave oven unless the removable shelf is in place. The shelf may be cleaned in the dishwasher.

Please read your cooking guide carefully.

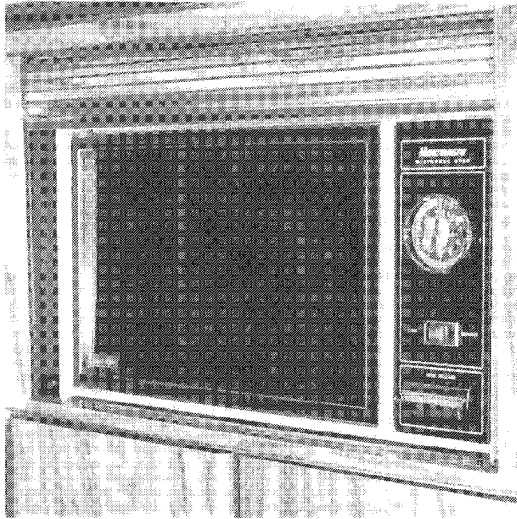
It will help you learn about your new Litton Electronic Oven quickly.

Your microwave oven is portable and can be removed for use in your home when your trailer is not in use.

IMPORTANT

Safety and Maintenance Instructions

Litton microwave ovens are one of the safest kitchen appliances. Each Litton microwave oven meets all safety standards set by the U.S. Dept. of Health, Education and Welfare. Look for the safety seal and UL tested label on your oven. However, it is important for you as a user to observe certain precautions and care in utilizing your Litton oven for maximum performance and safety. The door on your oven has been



Microwave Oven

carefully designed to contain the microwave energy; therefore, it is important that you observe the following:

1. Do not attempt to operate this oven with the door open since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
2. Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.
3. Do not operate the oven if it is damaged. It is particularly important that the oven door close properly and that there is no damage to the: a. Door (bent). b. Hinges and latches (broken or loosened). c. Door seals and sealing surfaces.

4. The oven should not be adjusted or repaired by anyone except properly qualified service personnel.
5. Remember that it requires considerable electrical power to operate the microwave oven (15 amps). Operation of other 120 volt appliances should be kept at a minimum when operating the oven.

Your new oven requires very little maintenance except for cleaning. Do not allow grease, soil or splatter to build up on the door seal to the oven cavity. Use only mild detergent, water and a soft cloth to clean the door surface and the interior surfaces. Odors can be eliminated by boiling a solution of one cup of water and several tablespoons of lemon juice in the oven for 5-7 minutes. Litton maintains trained service technicians in all principal metropolitan areas. It is suggested that these authorized service agencies be utilized for proper repair and adjustment of your oven.

The Litton **Micro-Browner® Steak Grill** allows you to brown and sear steaks, hamburgers and chops, fry eggs, grill a cheese sandwich.

Range and Oven

Your Airstream is equipped with a Magic Chef **gas range and oven**. The following are some hints on how to keep them operating at their best.

Note: The range gas line shut-off valve, located on the lower exterior of the trailer below the range, must be turned off when towing the trailer, when changing the gas tanks, or if the gas supply is turned off for any reason. Be sure oven and top pilot lights have been relighted as soon as range shut-off valve is turned on. If the range has not been operating for a long time, a longer waiting period for ignition of the pilot may be necessary due to air in the gas lines.

To light the pilots:

1. Be sure all valves are in the "OFF" position. The oven thermostat dial should be in the "PILOTS OFF" position.
2. Turn on main gas supply to range.
3. Depress and turn the thermostat dial to the "OFF" position.
4. Lift main cook top panel and light top burner pilot with a match.
5. Open oven door and light pilot with a match. A small flame will be noted at the top of the pilot burner.

The oven thermostat control knob (see Fig. 2) is combined with the constant oven and top burner pilot shut-off. For normal use: turn only between "OFF" and "BROIL." When traveling, turn to "PILOTS OFF." Relight only when you want to use the range, by turning from "PILOTS OFF" to

"OFF" and lighting oven and top burner pilots with a match.

Range Top Section

The range is equipped with orifices for use with L.P. gas only. The flame will be approximately ½ inch long. Do not attempt to adjust gas to burner. The orifices have no readjustment.

Top burners have pre-set air openings and need no adjustment.



Fig. 1 — Range and Oven

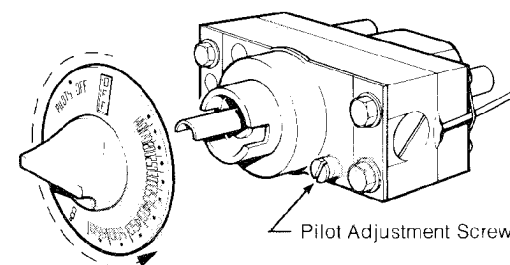


Fig. 2 — Oven Thermostat

Top burner pilot adjustment:

Adjust top pilot so that tip of flame is just over the edge of inner cone. Top burner pilot adjustment screw can be reached by removing thermostat knob (See Fig. 2.) Burners should light within 4 seconds. If lighting is difficult, check height of pilot.

Warning: Never allow the top cover to be closed while the range is in operation, as this could extinguish the flame and permit gas to escape into the trailer.

Oven Section

The thermostat on your oven does not have a by-pass setting. It will cycle off and on at all temperature settings except broil. No by-pass adjustment is necessary. There are no oven pilot adjustments on the thermostat. Control has been factory preset for use on L.P. gas. No field adjustment is necessary. The air shutter has been adjusted at the factory, however, it may require additional adjustment when used at high altitudes.

To adjust main oven burner air shutter:

Open air shutter to the full open position where you have a blowing condition. Begin closing the shutter slowly. When you reach the correct adjustment, blowing will stop. Burner should have a sharp blue flame approximately 3 inches long.

Important: Your oven is equipped with a **safety ignition** that requires a minimum of 30 seconds to operate after turning the oven control knob on. The oven pilot may be slow in lighting due to air in the gas lines.

Cleaning Instructions:

1. The main top has been hinged from the back so that it can be raised or removed for cleaning around the top burners.
2. When cleaning the top burner heads, care should be taken that all ports are opened up with a toothpick afterwards.
3. Spill-over or spotting in the oven or broiler are more easily cleaned when removed promptly after they occur.
4. An orange flame indicates dirt or dust getting into burner — clean burners.

Never wash porcelain when warm.

Never use cleaning powder containing grit or acid. When oven bottom is replaced after cleaning and servicing, be sure that it is locked in place.

The range exhaust hood

vents cooking heat and smoke from the trailer. To operate, pull down on lever located on the right hand side of central control panel. This will open the shutter and turn on the switch for the power fan. Clean the filter at least every six months with warm water and detergent. To remove the filter, remove the two screws that secure it to the housing and let it drop out while supporting it with your hand. Keep the vent housing clean of grease and dirt by frequent washing.

Additional information on the Range and Oven is available in the Airstream Service Manual.

Furnace

The Airstream furnace is an American Gas Association approved Suburban unit with an electronic ignition designed specifically for travel trailers. It has a sealed combustion system with a dual blower for maximum air circulation. One blower circulates room air while the other draws in air for combustion. The adjustable louvered heat registers control warm air flow while cold air returns through the galley cabinet toe kick opening.

The heat duct system also circulates warm air around the holding tank, water tank, and one-stop-service center, a vital feature when operating in below freezing weather.

The Suburban furnace is thermostatically controlled. When the thermostat calls for heat, the blower starts and only after it has reached nearly full speed will the burner light. After the temperature set on the thermostat is reached the blower will continue to run for a short time removing most of the remaining heat from the furnace as well as forcing the combustion gases from the heat exchanger. To turn the furnace off for an extended period of time turn the thermostat and the gas valve to their "OFF" positions. The gas shut-off valve is outside the trailer below the furnace. Operating instructions are printed inside the furnace door.

Trouble-free operation of the Suburban furnace will depend on your adherence to recommended operating procedures and precautions. Regular preventive maintenance is important.

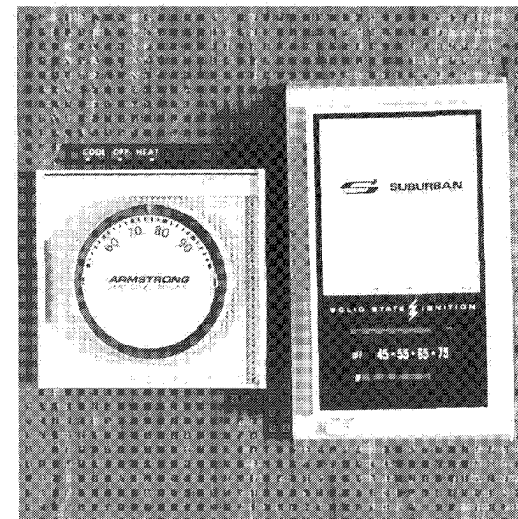
Recommendations and instructions are covered under "Maintenance and Cleaning" on page 69. Corrections of possible malfunctions presented here will be helpful in an emergency situation, but servicing should be done by a dealer. One note of caution regarding flue gases: they are vented from the furnace to the outside of the trailer through a vent in the outside wall. **Do not in any way obstruct this vent by placing clothing or other flammable material on the vent assembly.** Check it often to make certain it does not become clogged.

To start the furnace:

1. To light the furnace, turn the manual valve to the "off" position and wait 5 minutes with blower running. (Set thermostat above actual temperature to operate blower.)
2. After 5 minutes, set the thermostat to the "off" position.
3. Open manual valve. (Correct operating characteristics depend on this valve being positioned fully open. Never attempt to operate with valve partially closed.)
4. Set thermostat on desired temperature.
5. If burner does not light, set thermostat on "off" and repeat steps 1 thru 5.
7. If after 3 tries and no ignition, go to shut down and determine cause. Do not attempt to light burner with matches.

TO SHUT DOWN

1. Turn manual valve to the "off" position.
2. Set thermostat on off.



Furnace Thermostat

Caution: The air shutter adjustment cover must be tightly secured for proper operation of the heater.

If your fuel supply is depleted the main burner will go into lockout. To reset the lockout, turn gas valve to "OFF" and set thermostat to "OFF". Wait 5 minutes and return to operation.

Adjustment of Main Burner (Primary air): Set the furnace into operation by advancing the thermostat and allow it to run until it reaches near-maximum operating temperature. Observe the main burners through the burner observation window. The flame should be without a trace of yellow and be "sitting" on the burner. As the furnace was tested at the factory before shipment, it may be found that the primary air is already in proper adjustment. However, adjust-

ments may vary from one location to another due to differences in elevation and in characteristics of the fuel gases.

If the flame burns yellow or "lifts" off the burner, it needs adjustment. Take out the screws retaining the rectangular cover plate and lift the plate off.

Inside the opening is a threaded rod with the visible end slotted to receive a screwdriver. By turning the rod you will adjust the position of the main burner air shutter. This air shutter should be adjusted to the point where a hard blue flame is present at the burner. Replace the cover and check to be certain that the flame is still hard blue.

Caution: The primary air adjustment cover plate must be in place for proper operation of the furnace.

Note: If burner is allowed to operate in yellow condition, "soot" will accumulate on vent cap and in radiators. This should not be allowed to occur.

When the humidity is high inside your trailer and you wish to remove moisture, open a roof vent and turn on a vent or open a window slightly for cross ventilation.

Additional information on the Furnace is available in the Airstream Service Manual.

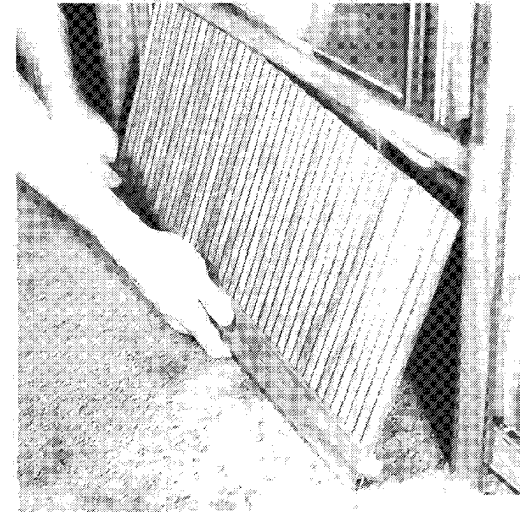
Maintenance and Cleaning

We recommend that the furnace be inspected and thoroughly cleaned by a qualified service agency before each heating season. This would include the combustion chamber, the main burner, the blower assembly, and all control parts. A careful inspection of all gaskets should be made and if any gaskets show signs of leakage or deterioration, they should be replaced.

Cleaning of the chamber and main burner will be required if the unit has been allowed to operate with a high yellow flame. The yellow flame is due to incomplete combustion (lack of air) and will deposit a soot formation inside the chamber and on the main burner.

To clean the chamber, main burner, blower assembly and controls, the chamber assembly must be pulled from the furnace. (See instructions for removing chamber.)

The furnace is equipped with an oiled, sealed motor and requires no oiling.



Removing Furnace Access Door

Water Heater

The Atwood-Bowen Gas Water Heater is equipped with a Robertshaw LP gas pressure regulator control with a 100% shut-off safety valve which shuts off the gas supply if the pilot flame is extinguished or the water temperature becomes excessively hot. It is lighted and serviced from the outside through an access panel at the roadside, rear, of the trailer.

Procedure for lighting or relighting:

1. **Be sure the water heater is filled with water.** Open the hot water faucet at the sink and when the water flows, the heater is full.
2. Turn gas supply line valve, on the lower exterior of the trailer below the water heater, to the "ON" position.
3. Turn the gas valve knob (A) to the "OFF" position and the temperature indicator dial (B) to the lowest temperature position.
4. Wait sufficient length of time to allow gas, which may have accumulated in the burner compartment, to escape (approximately five minutes).
5. Turn gas valve knob (A) to "PILOT."
6. Depress and hold the red reset knob (E) and push the lighter (D) in and turn until the pilot flame ignites. This may take several turns of the knob. Or you may light it with a match. **Note: use cigarette lighter flint for flint replacement in pilot lighter.**
7. Keep the reset knob depressed for one-half minute after the pilot flame ignites.
8. Turn the gas cock knob to "ON."
9. Set the temperature indicator dial to the desired water temperature.

10. To shut down the water heater, turn the gas cock knob to the "OFF" position.

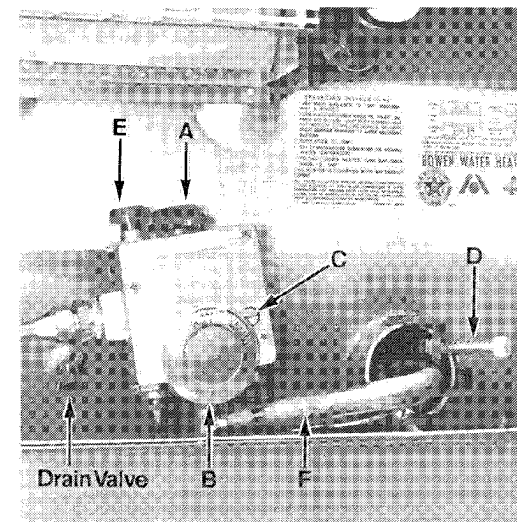
Pilot Flame Adjustment

If the pilot flame does not have a small orange tip, the pilot is not getting enough gas. The flame should be about ¼ inch in vertical height when the water in the tank is cold and the burner is off, ¼ to ¾ inch in horizontal length when the tank is warm.

A large orange flame indicates excessive gas supply, which will result in short pilot life and early replacement. The pilot has been properly adjusted at the factory and should operate with a blue, orange tipped flame enveloping the pilot thermocouple. Removal of the pilot adjustment cap (C) in the lower right corner of the control will reveal the pilot adjustment screw. Turning this screw counter-clockwise reduces the flow of gas to the pilot (blue flame) and clockwise, the gas supply will increase (orange flame). Replace pilot adjustment cap.

Air Shutter Adjustment

All fuels depend upon air (oxygen) to give them proper burning characteristics. A yellow, smoking flame indicates a lack of air and a noisy hard blue flame indicates too much air. The air shutter slides back and forth along the burner tube and is held in place by a small shutter adjustment screw (F). Loosen the screw for adjustment. A good method of adjusting the air shutter is to slide the shutter to the right until yellow tipping occurs on the main burner flame (not the pilot) and then slowly slide the



Water Heater Controls and Drain Valve

shutter to the left until all signs of yellow tipping are gone. When proper adjustment has been obtained, tighten the screw holding the air shutter. The outside access door must be kept firmly locked for proper operation.

Additional information on the Water Heater is available in the Airstream Service Manual.

Water System

The Airstream water system provides full service both when the trailer is self-contained or when city water is available. Water heater capacity is 6 gallons. The water tank stores 50 gallons of clean fresh water for all your needs.

When self-contained, the water pump should be turned on. The switches are located on the Central Control Panel in the galley roof locker and in the bathroom of your Airstream. The water pump will run whenever a faucet is opened, and will shut off whenever a faucet is closed. It will deliver 3 gallons per minute under constant pressure.

Note: The water pump must be turned off when hooked up to city water supply and when you leave your Airstream unattended.

The **water pump and filter** are adjacent to the water heater in the bathroom cabinet on 23', 28 & 31 T&D, rear bath models in the roadside bedroom wardrobe on 25 T&D models and in the nightstand on 31' center bath. The filter screen should be cleaned periodically to prevent accumulation of dirt and sand. To remove the screen, disconnect the rubber hoses from both ends, separate the screen housing, remove the screen, clean and replace.

For city water supply, connect a 1/2" minimum high pressure hose to the water inlet fitting (see Figs. 1 and 2) located under the rear roadside corner of the trailer, just forward of the bumper. Turn the hose on and slowly open an inside faucet until the

water flows free of air. The system will now be ready for use. If you are staying for some time where city water is available, drain the water storage tank. To drain the tank, open a drain valve or faucet and turn the water pump switch on until the tank is empty. Be sure to refill the tank with fresh water before departing. The system has check valves in the water lines to protect the water tank while you are connected to the city water supply.

The water tank is located under the floor between the axles. To fill the water storage tank, open the filler spout (see Fig. 3, page 72) on the exterior wall above the center of the roadside wheel well, and fill with a hose or a bucket. Close and lock the spout and the water system is ready to use.

To clean the tank, pour some bicarbonate of soda into the filler spout with several gallons of water and allow to stand for a minimum of four hours. Then flush the tank out by opening a faucet, allowing the water pump to drain the system. Then refill with fresh drinking water. If the water tank must be cleaned further, the following procedure is recommended.

1. Prepare a sodium hypochlorite solution using potable water and household bleach (5 1/4 or 6%) in the ratio of 1/4 cup of bleach to 1 gallon of water. (Common household bleaches are Purex and Chlorox.)
2. Pour 1 gallon of hypochlorite solution for each 15 gallons of capacity into the empty water tank.

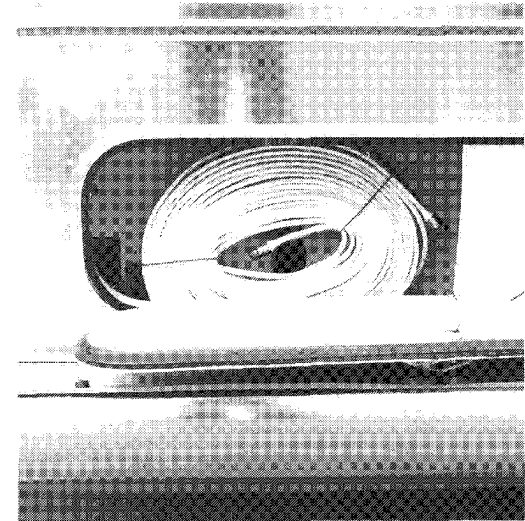


Fig. 1 — Water Hose Storage

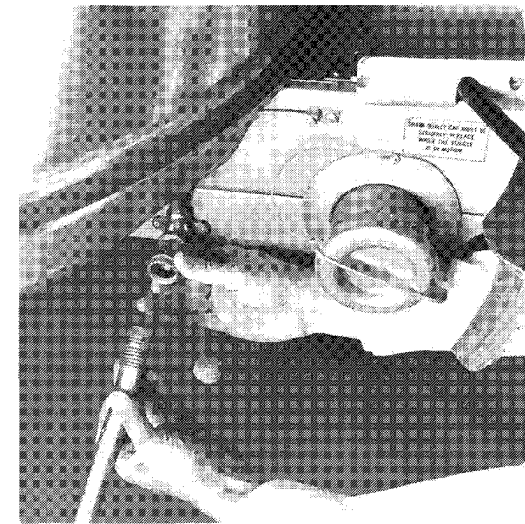


Fig. 2 — City Water Hook-Up

3. Add enough fresh drinking water to completely fill the water system.
4. Allow closed system to stand for three hours.

5. Drain the hypochlorite solution from the system and refill with potable water.
6. Excessive hypochlorite taste or odor remaining in the water system is removed by rinsing the system with a vinegar solution mixed in the ratio of 1 quart of vinegar to 5 gallons of water.
7. Drain the system and flush with fresh drinking water.
8. Drain the system and refill with fresh drinking water. To drain the tank completely, be sure to remove the plastic tank drain plug located in the bottom of the tank just below the fill tube. Gain access by removing the circular plug in the tank pan.

The **optional Everpure QC2 Water Filter** is located under the galley sink. It will remove even very fine dirt and colloidal matter, and eliminates most chlorine, phenol, and similar distasteful odors and tastes while delivering sparkling taste-free water for drinking and cooking. The filter is connected to the cold water galley drinking faucet only. The filter will also remove iron and sulphur provided the water supply is chlorinated. Super-chlorination will precipitate the iron and sulphur which will then be removed by the QC2 Filter. To purify any questionable water, fill the Everpure Chlorine Disinfectant Dispenser with liquid bleach and add $\frac{1}{8}$ ounce (one teaspoonful) per 10 gallons of water to the water tank (i.e. 5 teaspoons for a 50 gallon tank). The water will remain sparkling clear even to the end of the filter life, however, as the minute pores slowly fill up with impurities the flow rate will be gradually reduced.

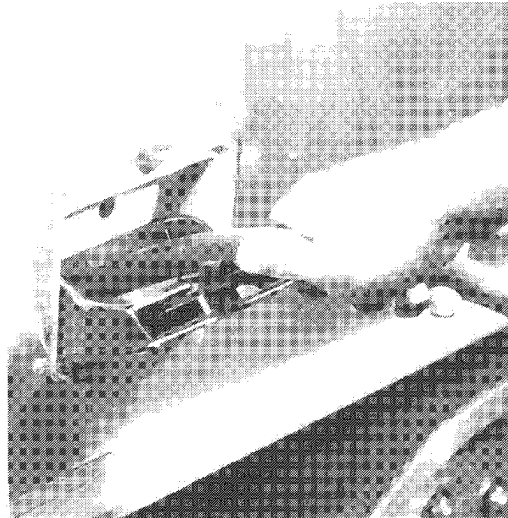


Fig. 3—Water Tank Fill Spout

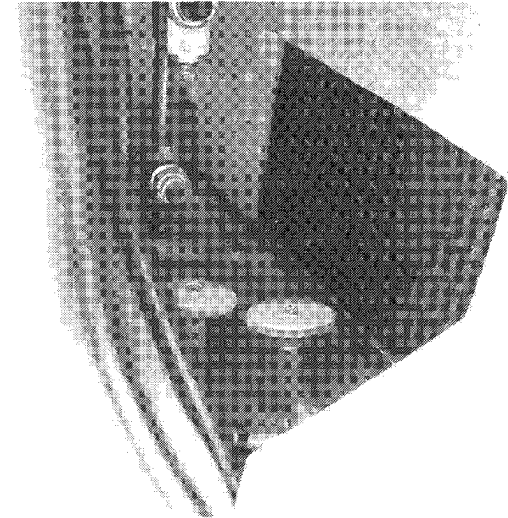


Fig. 5a Water Drain Valve (Roar Bath)

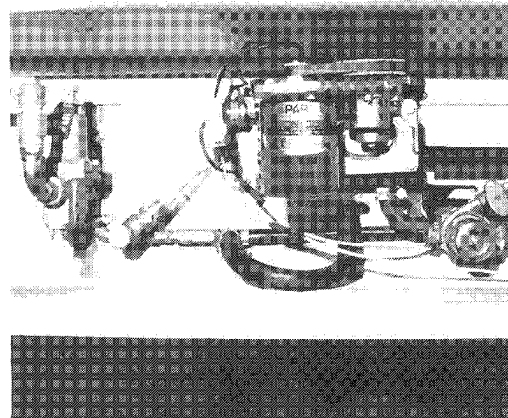


Fig. 4—Water Pressure Regulator, Pump and Filter

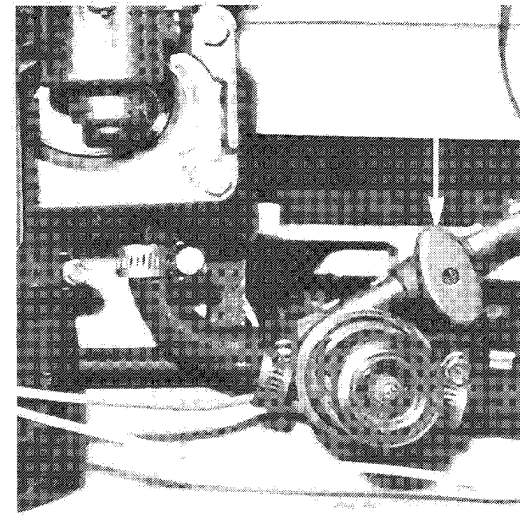
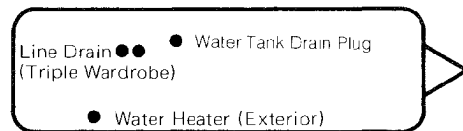


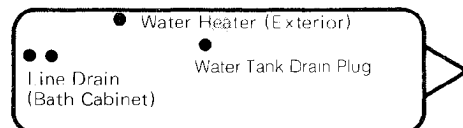
Fig. 5b—Water Drain Valve (Center Bath)

When it becomes too slow for convenience, the cartridge can be very simply changed. Follow the instructions on the cartridge. We

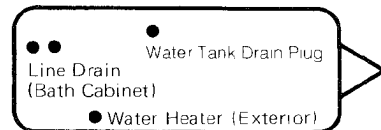
advise keeping a spare cartridge at all times.



31 Ft., Center Bath



25 and 28 Ft., all models, 31 Ft., rear bath



23 Ft. all models

• *Drain Valve Locations*

To remove used cartridge:

1. Shut off water by lifting valve handle counterclockwise as far as possible.
2. Turn colored ring all the way to the left. Ring will drop about $\frac{5}{8}$ ".
3. Lift cartridge slightly and turn it further to the left until it can be disengaged.
4. Lower cartridge to disengage it from ring. Discard used cartridge.

To install new cartridge:

1. With colored ring in lowered position (turned all the way to the left), orient lug on cartridge with cutout under label on ring.
2. Insert cartridge straight up into ring as far as it will go. Holding colored ring steady, turn cartridge as far to the right as possible, without forcing.
3. Then turn colored ring far to right to drive cartridge up into head.

4. To lock ring in place and turn water on, move valve handle down. Be sure handle leg engages ring locking-lug.

The **water pressure regulator** protects the plumbing inside your trailer. Regardless of the variation in city water pressures, the pressure at the faucet is kept constant.

The water system has built-in drain valves to protect it from winter freezing. For complete details see Storage and Winterizing, page 41.

Drain and Waste System

Your Airstream has a drain and waste system that includes waste holding tanks made from molded plastic, free from corrosion problems, with trouble free dump valves. The **main holding tank** enables you to use the toilet for several days away from disposal facilities. The waste water from the sink, shower, bath and lavatory drains into the **auxiliary holding tank**. Each tank has its own dump valve, however, both tanks drain through a common outlet. Therefore you need to make only one connection when hooking up in a trailer park with sewer facilities.

When the toilet will no longer drain, the main holding tank is full and must be emptied. Watch this closely, because **when the tank is full, sewage cannot be emptied from the toilet bowl.** In models with a central control panel, check the main holding tank gauge. The auxiliary holding tank must be emptied when the gauge on the central control panel indicates full.

On 28 and 31 ft. rear bath models the **dump valves** are located in the rear trunk compartment. The main holding tank dump valve is located on the roadside and the auxiliary holding tank dump valve is located on the curbside. (See Fig. 1.) On 31 ft. center bath models the dump valves are located on the roadside, just behind the rear wheels, on the main frame rail. The main holding tank dump valve is located aft of the sewage outlet. (See Fig. 2.) On 23 ft. T&D and 25 ft. T&D main holding tank dump valve is located in under

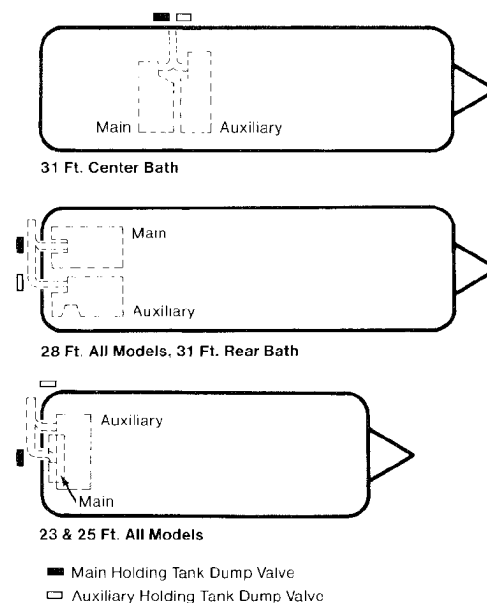
the rear bumper storage compartment (see Fig. 3), and the auxiliary holding tank dump valve is located next to the sewage outlet on the roadside main frame rail just forward of the bumper. (See Fig. 4.)

To empty one or both tanks attach the sewer hose by pressing the bayonet fitting onto the dump valve outlet and rotate clockwise until it feels solid and secure. (See Figs. 5 and 6.) Attach the outlet end of the hose to the sewage outlet, making sure that the hose is placed so it will drain completely. The dump valves have two wire loops that lock the handle in the closed position. To unlock push outward on the wire loops and they will snap loose, permitting you to open the valve. Pull up the dump valve handle as far as it will go and wait until the tank is drained. When dumping, the main holding tank should be dumped first; then the auxiliary holding tank. This will help to rinse out the sewer line with auxiliary holding tank water.

The main holding tank must be flushed out until all paper and waste material is removed. Close the dump valve and refill the tank with 5 to 10 gallons of clean water and repeat until clean.

On 28 and 31 ft. rear bath models, a convenient fitting for flushing the holding tank is in the center of the rear trunk compartment.

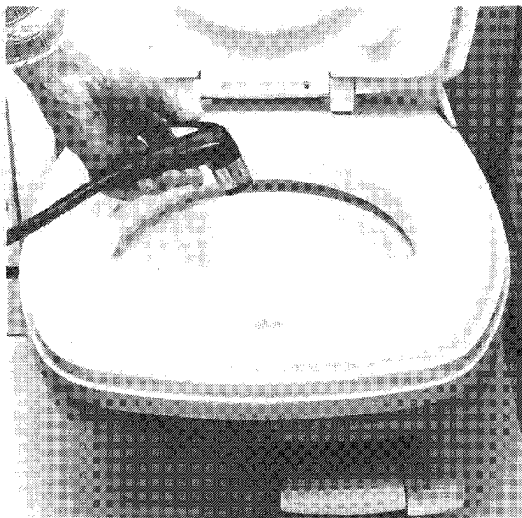
Replace the plug after using the fitting. The sewer hose is stored in the rear bumper compartment. Rinse out the sewer line before storing.



Holding Tank Dump Valve Locations

When in a park and connected to a sewer outlet, keep the main holding tank dump valve closed and empty the tank every few days or whenever it becomes almost full. **Only by sending a large volume of liquid through the main holding tank at a time will toilet paper and other solids completely wash away.**

This practice will avoid the accumulation of solids in the main holding tank which could lead to an unpleasant cleaning job. Should solids accumulate and close the dump valve, fill the tank about half full with water; then tow the trailer for a few miles. The turbulence and surging of the water will usually dissolve the solids into suspension so the tank can be drained. If your trailer is



Toilet Hand Spray

equipped with the auxiliary holding tank, keep the tank valve open when connected to a sewer outlet.

The **Aqua Magic toilet** employs a sliding self-cleaning positive seal blade. Odors cannot escape from the holding tank into the trailer. The unit uses less than 2 quarts of water for automatic flush. A special feature is the second pedal attached to the main foot pedal which, when pressed by itself, allows fresh water through either the fill rim or hand spray without opening the slide valve.

When conserving water, use the hand spray in the following way:

1. Hold the hand spray in ready position over bowl.

2. Depress thumb button and step on the foot pedal, which sprays water and dumps the contents at the same time.
3. Spray bowl clean.
4. Release foot pedal, shutting off water flow.
5. If you wish to refill bowl with water for next use, depress small foot pedal till water reaches desired level.

When using automatic flush:

1. Step on main foot pedal, and this will automatically open the slide valve and drop the waste into holding tank.
2. Hold pedal down until water begins to swirl. This fills rim storage and rinses the bowl.
3. Release the foot pedal. This will close the valve blade and stop fresh water from flowing. The bowl will refill automatically.

If you are certain to empty your holding tank every few days, you can use the toilet on automatic flush. It uses very little water and the tank will provide for the requirements of two adults from 2 to 4 days.

Whenever water is scarce, the hand spray flush makes it possible to stay a week or longer in areas where you cannot empty the holding tank. In flushing for urine only, first, wet the bowl with fresh water, and again after use. Starting with a dry bowl takes more water for the final rinse. To flush for urine and solid matter: spray just enough water in the dry bowl to provide for floating the paper and solids. After use, rinse down the sides with the hand spray

and empty the bowl. Hold the slide valve open and spray and rinse the lower surfaces. Even if it appears clean, quickly spray it one more time, then release the pedal and it is ready for the next use.

There are certain items that should never be put into the toilet or tank. Facial and other similar tissues: because they have wet strength and do not dissolve easily. Toilet paper, especially white, dissolves well after a period of traveling.

Use only trailer sewage tank deodorizers. Antifreeze, ammonias, alcohols and acetones may cause damage to the tank, valve parts, tank fittings, and drain hose. For protection against freezing, use recommended fluids (see Winterizing, page 41).

Some state and federal parks prohibit draining sink and bath waters into the ground, although this is done in the wilderness. Your auxiliary holding tank will hold this water until you are at a dump area.

The **auxiliary holding tank should be flushed out periodically** to wash away sediments that may accumulate on the bottom of the tank. To flush, close dump valve, fill tank with water and then release dump valve. This volume of water will wash sediment away.

Additional information on the Drain and Waste System is available in the Airstream Service Manual.

Electrical System

The exclusive **Airstream Univolt System** enables you to use the lights and appliances whether operating on self-contained battery power or hooked up to 120 volt city power. This combination unit is designed for protection from damage up to and including a dead short. The 12 volt light bulbs give off the same light as regular household bulbs, so that when operating on self-contained battery power, everything works normally **except the 120 volt convenience outlets and electrical operation of the refrigerator.**

Convenience outlets for 120 volts and 12 volts are located throughout the interior of the trailer, see diagrams pages 80-84.

Exterior outlets for 120 V are located on the curbside exterior wall, between the wheels, above the wheel well. (See Fig. 1)

When operating with city power, make very certain that the service is 120 volt and not 220 volt. Open the bumper storage compartment lid, uncoil only the needed amount of cord and plug it into the city power source. Before closing the lid, carefully place the cord in the opening provided for it on the left side of the lid.

The univolt system has a transformer designed to maintain constant output voltages regardless of the variances that occur in city power systems. The transformer design eliminates the need for complex electronic sensing systems to charge the battery, minimizing the possibility of failures and greatly increasing its overall reliability.

When the three pronged plug can be used, there will be no problem with proper polarity or grounding. In some older parks and other locations where three pronged outlets are not available, **certain precautions to insure proper grounding and polarity must be taken.** These precautions are listed below:

1. Attach the three pronged plug to a two pronged adapter. The third conductor line of this adapter has a short wire lead which must be grounded.
2. For proper grounding connect the short ground lead to a grounded outlet box or to a cold water pipe. When no water pipe is available, drive a metal rod two feet into the ground and attach the ground lug to it thus providing the unit with proper grounding.
3. Check the polarity light located above the water heater access panel in International models and to the roadside of the license plate on Land Yacht models. If it is on, pull the plug, turn it over and reinsert. The light will now be out.

The **polarity warning light** (see Fig. 2 page 77) indicates improper polarity and it should be off when the power supply cable is used with a two pronged adapter. It may occasionally glow when the three wire system is in use, but your trailer is properly grounded, and in this case you may ignore the light.

To operate self-contained, simply disconnect the power supply cable.

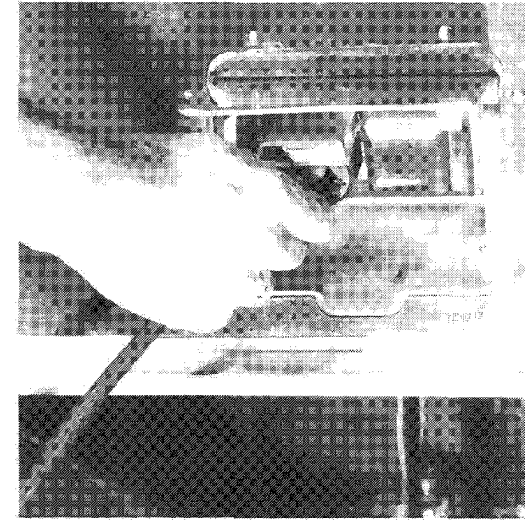


Fig. 1 — 120 Volt Exterior Outlet

The stop and turn signal monitor mounted on the front roadside of your Airstream, monitors the functions of the rear tail light, stop, and turn signal lamps. The uppermost window is for curbside and lower for roadside. They light up if vehicle lights are on, get brighter if the stop light is operated, and flash if turn signal is working. The monitor is not electrically operated. It is connected to the respective lamp by means of fiber optics.

When your Airstream is hooked up to 120 volt A.C. the **univolt system automatically charges the trailer battery** and, if it is hooked up, your automobile battery as well. The speed and degree of charge depends on how much power is used for lights and appliances, as only the surplus goes to charging the battery. (Please refer to the specifications section for more information on power consumption.) If you are making an extended stay or storing your Airstream, then you should (if it is available) **keep your trailer hooked up to 120 volt current.**

Whenever possible, use the automatic built-in charger of the univolt system for charging. The charging circuit automatically controls the current, reducing it as the battery increases in charge. At service stations, make certain they give your battery a slow charge because quick charges will drastically shorten the life of the battery as will allowing repeated complete discharges.

The **low voltage fuse panel** is located on the center front wall of the trailer above the univolt. On models with a front lounge, it will be behind the lounge. On models with a front Credenza, it is behind the folding table. If there is a center fold-down table, it is behind the table.

On 28 ft. T & D and all 31 ft. rear bath models the **120 volt circuit breaker panel** is accessible in the bathroom cabinet to the right of the sink facing rear. On 23 ft. and 25 ft. T&D models, it is located in the cabinet to the left of the toilet. On 31 ft.

center bath models, it is located in the roadside triple wardrobe or rooflocker.

In the event of failure of a 120 volt circuit, check your circuit breaker first. While you are connected to the 120 volt receptacle, the wiring is protected by circuit breakers in the breaker panel providing the polarity and grounding is correct. If a breaker continues to trip after you have reset it several times, your circuit may be overloaded with appliances or there may be a short in the circuit. If lessening the load does not solve the problem consult an Airstream Service Center.

The Univolt System is provided with a series of fuses (see illustrations, page 88) for the safety of you and your unit. Trouble with the electrical system is extremely unlikely, but if it should occur we recommend that you contact your nearest Certified Service Center for repairs. We have included a troubleshooting chart to be used in emergencies only. Details of electric motor amperage, light bulb size, and fuse and circuit breaker locations are shown on the chart in the specifications section on pages 91 and 92.

When being towed, the 12 volt battery in your Airstream is receiving a constant charge from the car's generator or alternator through the **Seven Way Connector**. The charge rate is controlled by your automobile's voltage regulator. It is important to keep the seven way connector clean: one method is to use "Spra-Kleen."

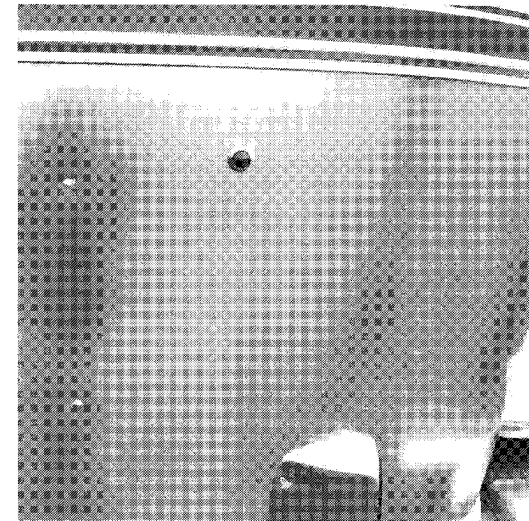


Fig. 2—Polarity Warning Light

Additional information on the Electrical System is available in the Airstream Service Manual.

Battery

A normal battery will discharge by itself in 30 to 45 days when not in use, therefore, **it is necessary to periodically check the battery and charge it as is necessary.** We suggest checking the battery at least every two weeks in freezing weather. The temperature at which a battery will freeze depends on the condition of its charge. As an example, a fully charged battery with a specific gravity of 1.265 will not freeze until the electrolyte temperature drops to -71.3°F, while a discharge battery will freeze at +19°F. The following table shows the freezing points of batteries at various specific gravity readings, temperature corrected to 80°F.

1.265 -71.3°F

1.250 -62°F

1.200 -16°F

1.150 +5°F

1.100 +19°F

Note: Do not add water to a battery in freezing temperatures unless the vehicle will be put in use at once. Otherwise, the added water may freeze. Neglect is expensive. Care costs little. Check your batteries regularly.

Maintain a clean battery top and check terminals and cables for tightness and cleanliness. A dirty battery will dissipate its charge through surface contamination. Clean battery top with a damp cloth and dry thoroughly.

The terminals should be tight and free of corrosion. To clean terminals, neutralize with a solution of baking soda, rinse in clear water, and dry.

To insure maximum battery capacity on

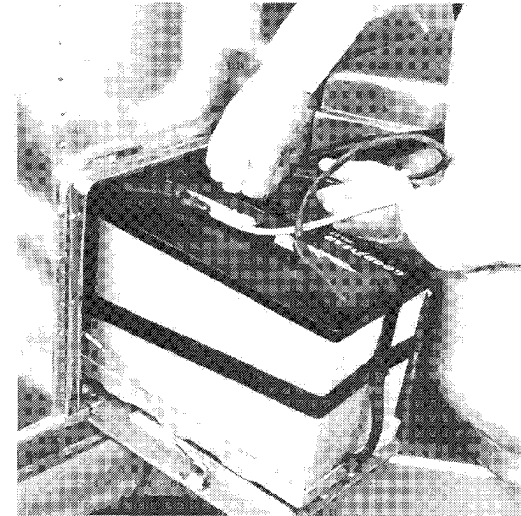
both charge and discharge, the battery terminals and the inside portion of the cable connector should be scraped or brushed until both of these surfaces are shiny bright. The cable connectors should then be re-connected to the battery and tightened. The complete assembly, battery post and cable connector should be coated with a heavy bodied mineral grease, petroleum grease or a petroleum jel.

Important: Reconnect the battery cables to the correct battery posts. The black cable should be connected to the negative (-) post and the red cable to the (+) post. The polarity of your tow vehicle must also be negative (-) ground since it must always match the trailer. Most tow vehicles are negative grounded, but always check your vehicle owner's manual to be sure.

Add water to cells as necessary. Check the electrolyte level at least once a month. When you are traveling steadily and for an extended period of time, or you are in climates above 90° check the electrolyte level about every two weeks. Do not fill battery above the split ring in filler opening. **Do not measure specific gravity immediately** after adding water. The water must first mix with the electrolyte by charging or by driving a few miles.

Caution: The gases generated within a storage battery cell may be ignited by an open flame or spark in the vicinity of the battery. Do not use a match or flame to provide light for checking the level of the water.

During the winter the battery should be removed from the Airstream and stored in a



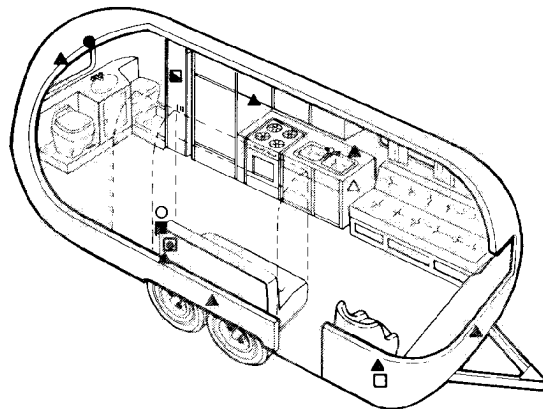
Battery Cable Quick Disconnects

cool, dry place, where there is no danger of freezing, it should be kept full of water, cleaned and charged monthly. A battery which is allowed to completely lose its charge will never regain its original power, or a full charge.

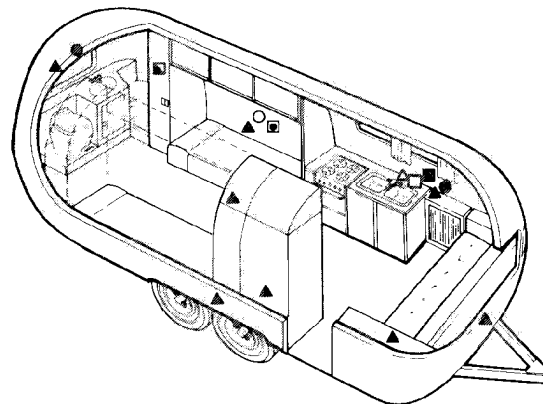
The battery is located in an exterior compartment curbside of the tongue. If optional 2nd battery is installed, it will be located in a similar compartment, roadside of the tongue. It slides out onto the opened door for service and removal. For removal it is not necessary to remove cables from battery terminals, just pull quick disconnects apart (see photo).

For battery service or replacement, go to any service station or dealer who sells and services the battery. Batteries are rated for 105 amp. hours of 80°F and have a 5 year prorated warranty.

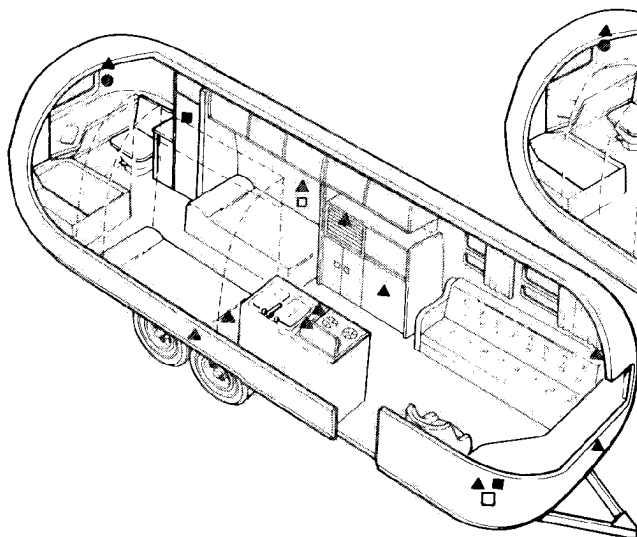
Electrical Outlet Locations



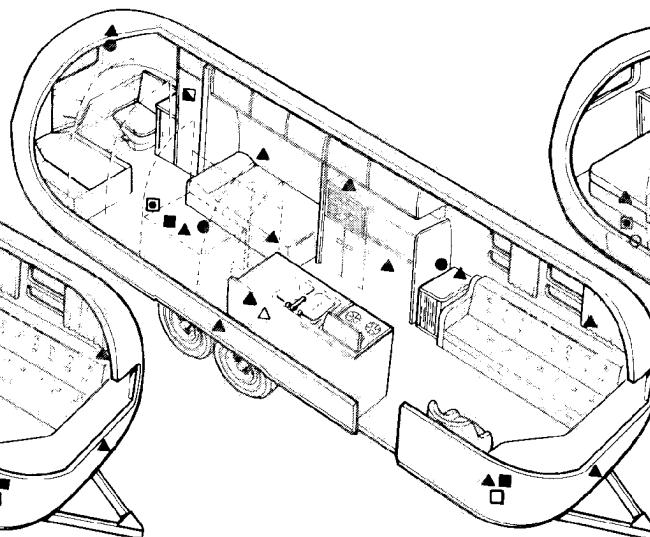
23 Ft.



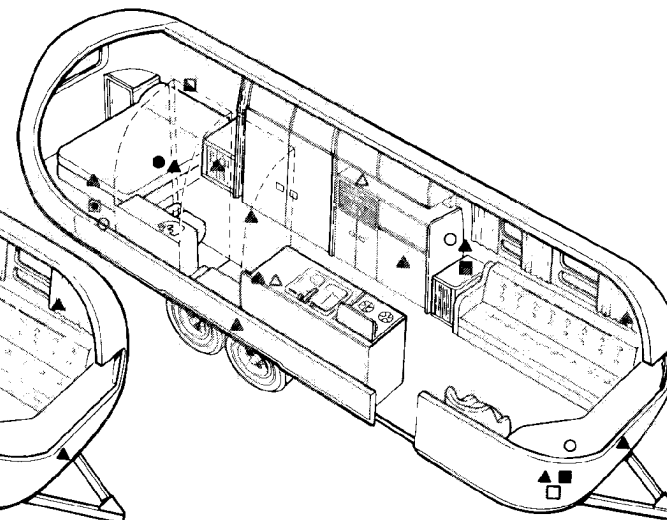
25 Ft. Twin and Double



28 Ft. Rear Bath



31 Ft. Rear Bath

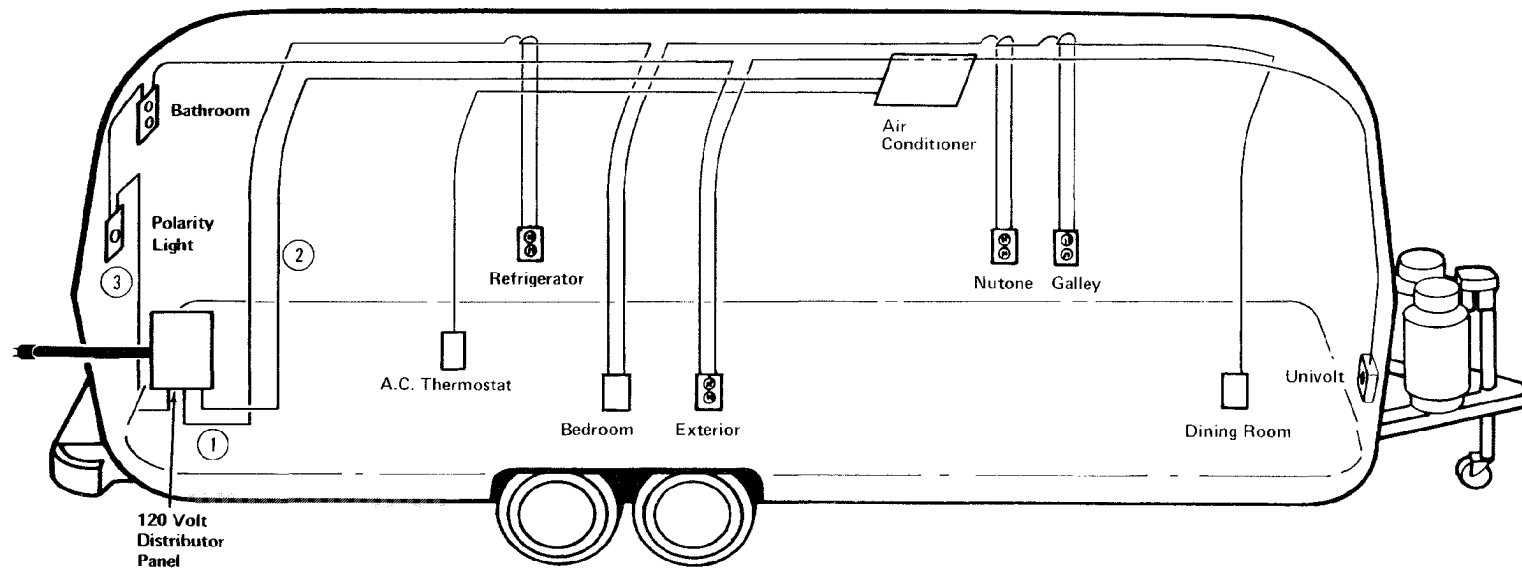


31 Ft. Center Bath

- | | | | |
|--------------------|--------------------|------------------------------|------------------------|
| ▲ 120 V (standard) | ▲ 120 V (optional) | ■ Telephone Jack (standard) | □ T.V. Jack |
| ● 12 V (standard) | ○ 12 V (optional) | ■ Telephone Inlet (optional) | □ T.V. Jack (optional) |

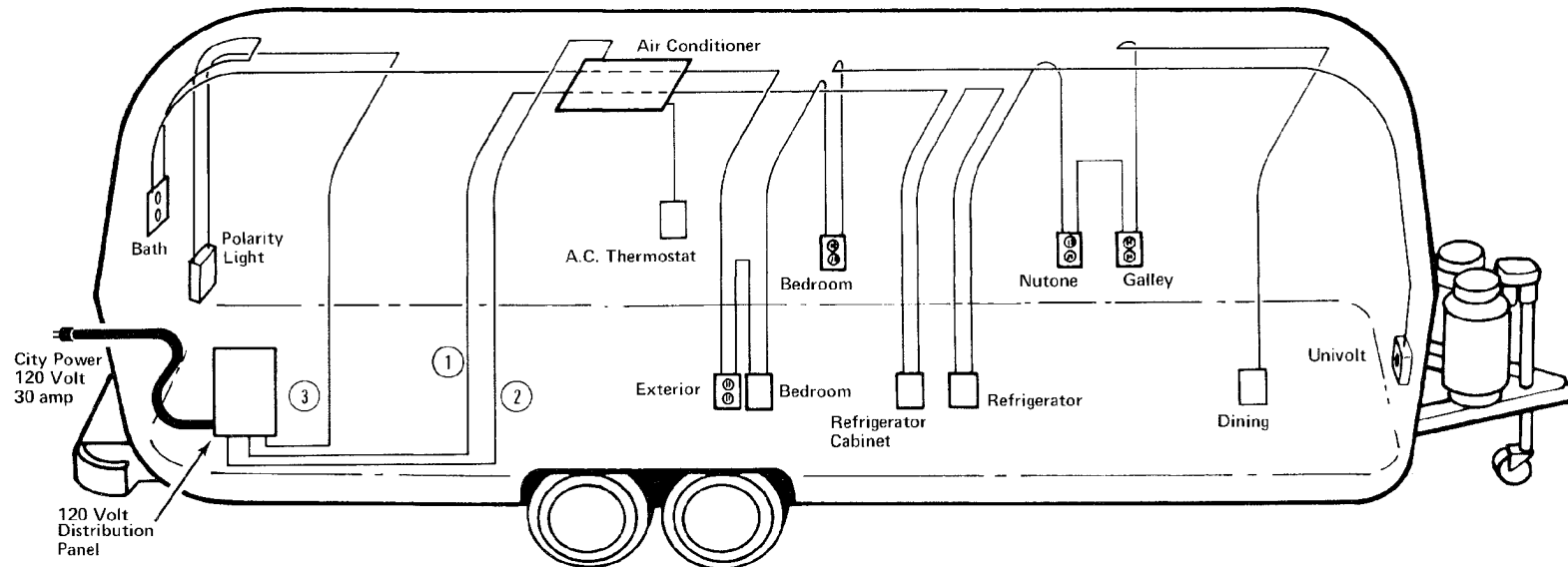
Electrical Wiring Diagrams

120 Volt Distribution System – 23 Ft.



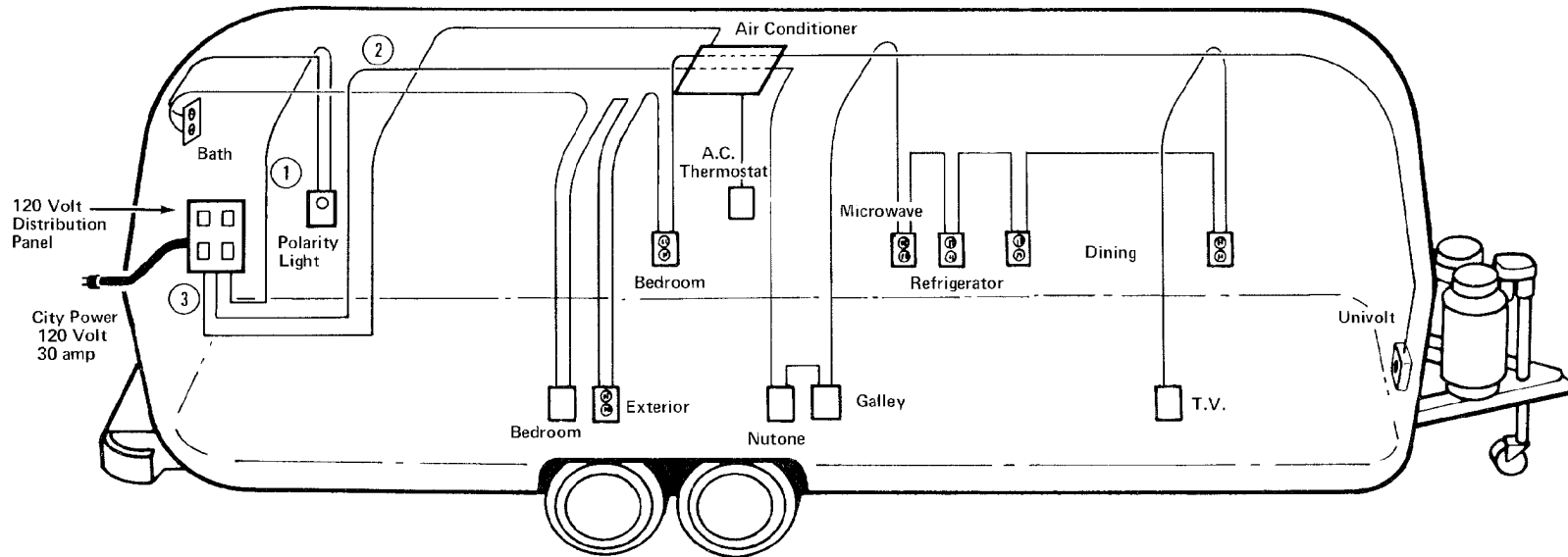
- ① Appliance Circuit 20 amp
- ② Air Conditioner 20 amp
- ③ General Circuit 15 amp

120 Volt Distribution System – 25 Ft. Twin and Double



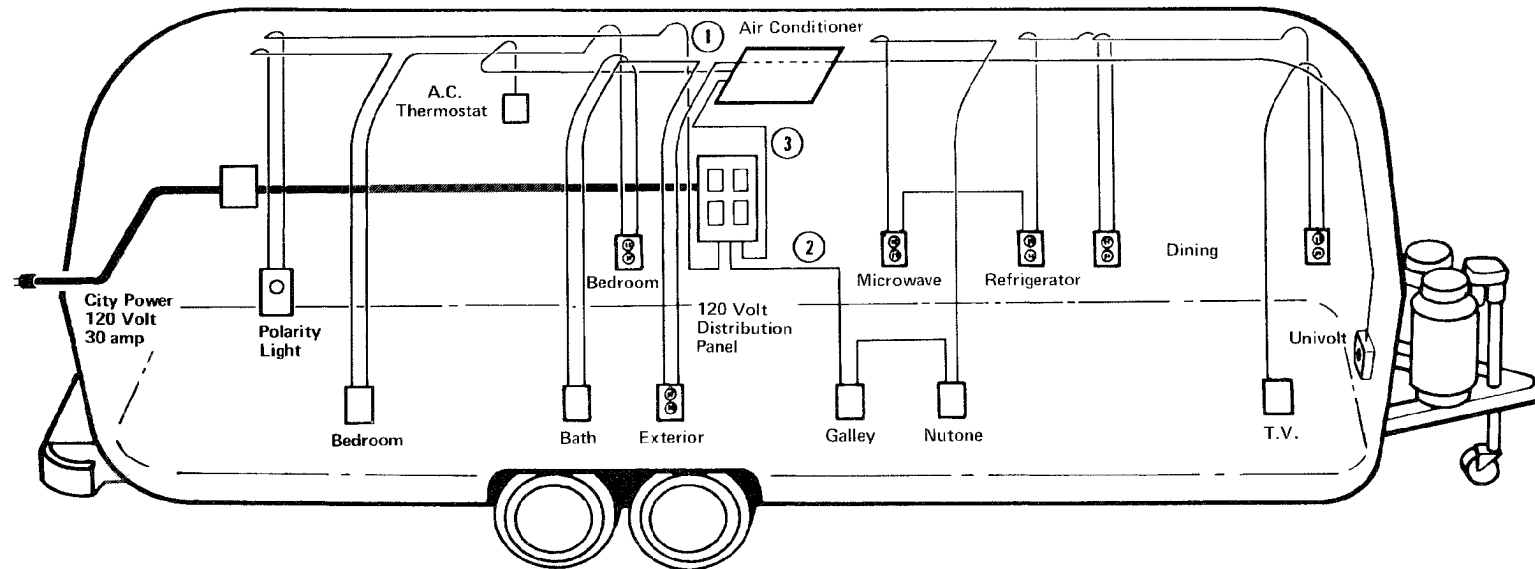
-
- ① Appliance Circuit 20 amp
 - ② Air Conditioner 20 amp
 - ③ General Circuit 15 amp

120 Volt Distribution System – 28 and 31 Ft., Rear Bath



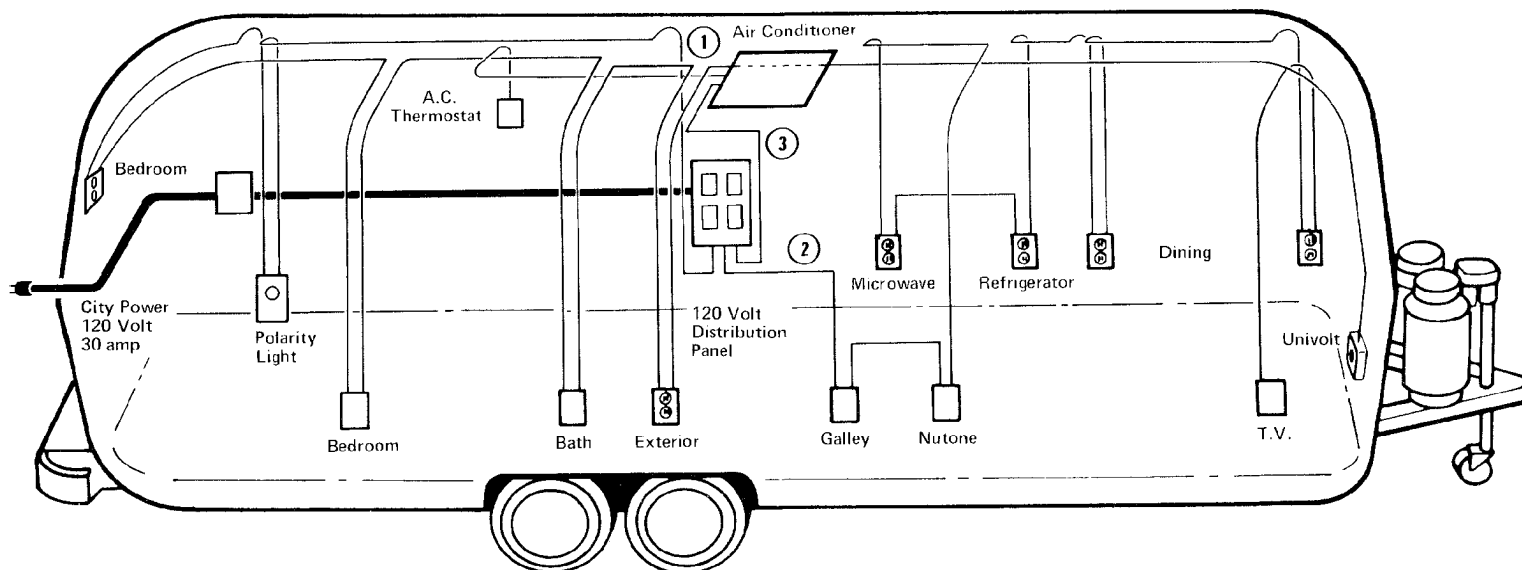
- ① General Circuit 15 amp
- ② Appliance Circuit 20 amp
- ③ Air Conditioner 20 amp

120 Volt Distribution System — 31 Ft. Center Bath, Double



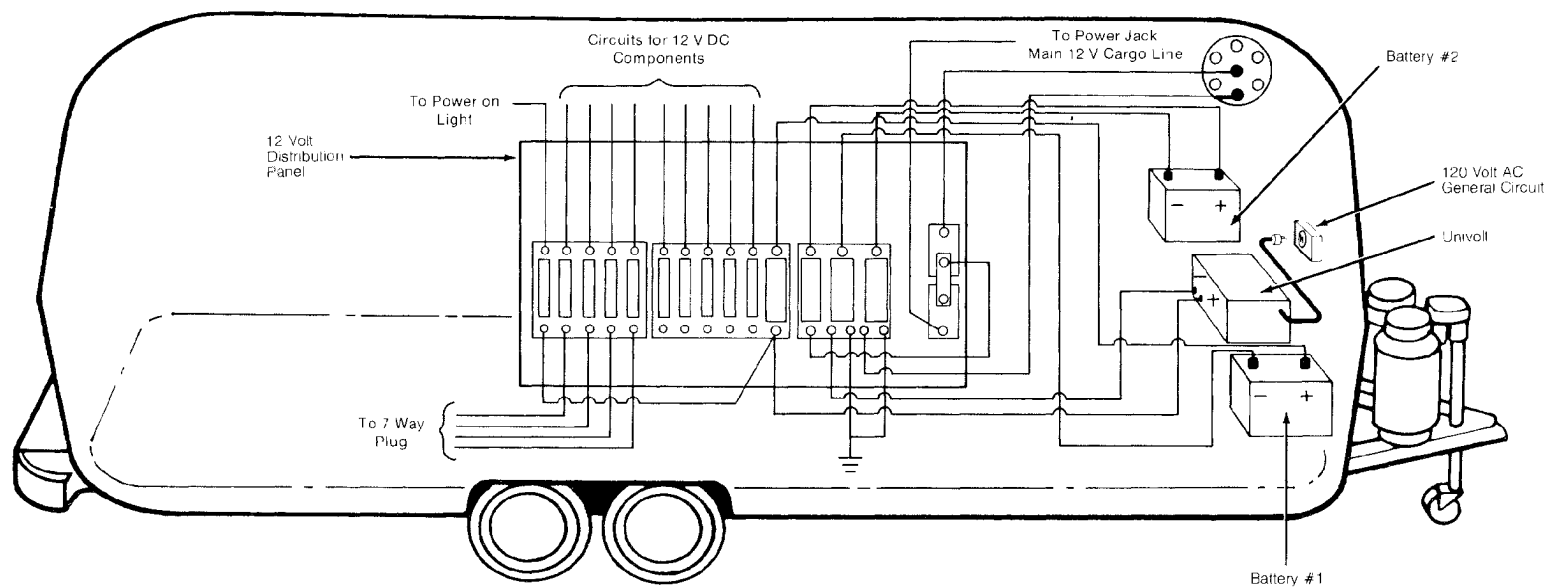
-
- ① General Circuit 15 amp
 - ② Appliance Circuit 20 amp
 - ③ Air Conditioner 20 amp

120 Volt Distribution System — 31 Ft. Center Bath, Twin



-
- ① General Circuit 15 amp
 - ② Appliance Circuit 20 amp
 - ③ Air Conditioner 20 amp

12 Volt Interior



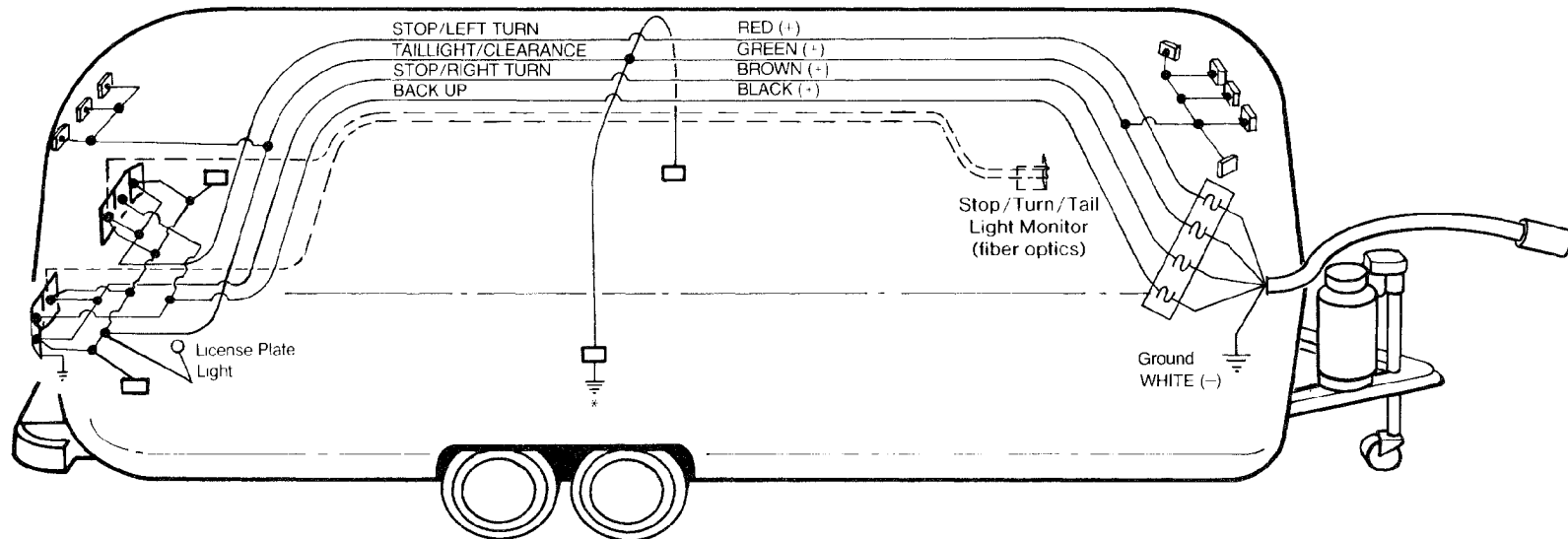
Wiring Color Code

BLUE – Main Charge Line (BLACK — Canada)

WHITE – Ground Line

*Univolt converts 120 volts AC to 12 volts DC

12 Volt Exterior



Wiring Color Code

RED – Stop/Left Turn

GREEN – Taillight/Clearance

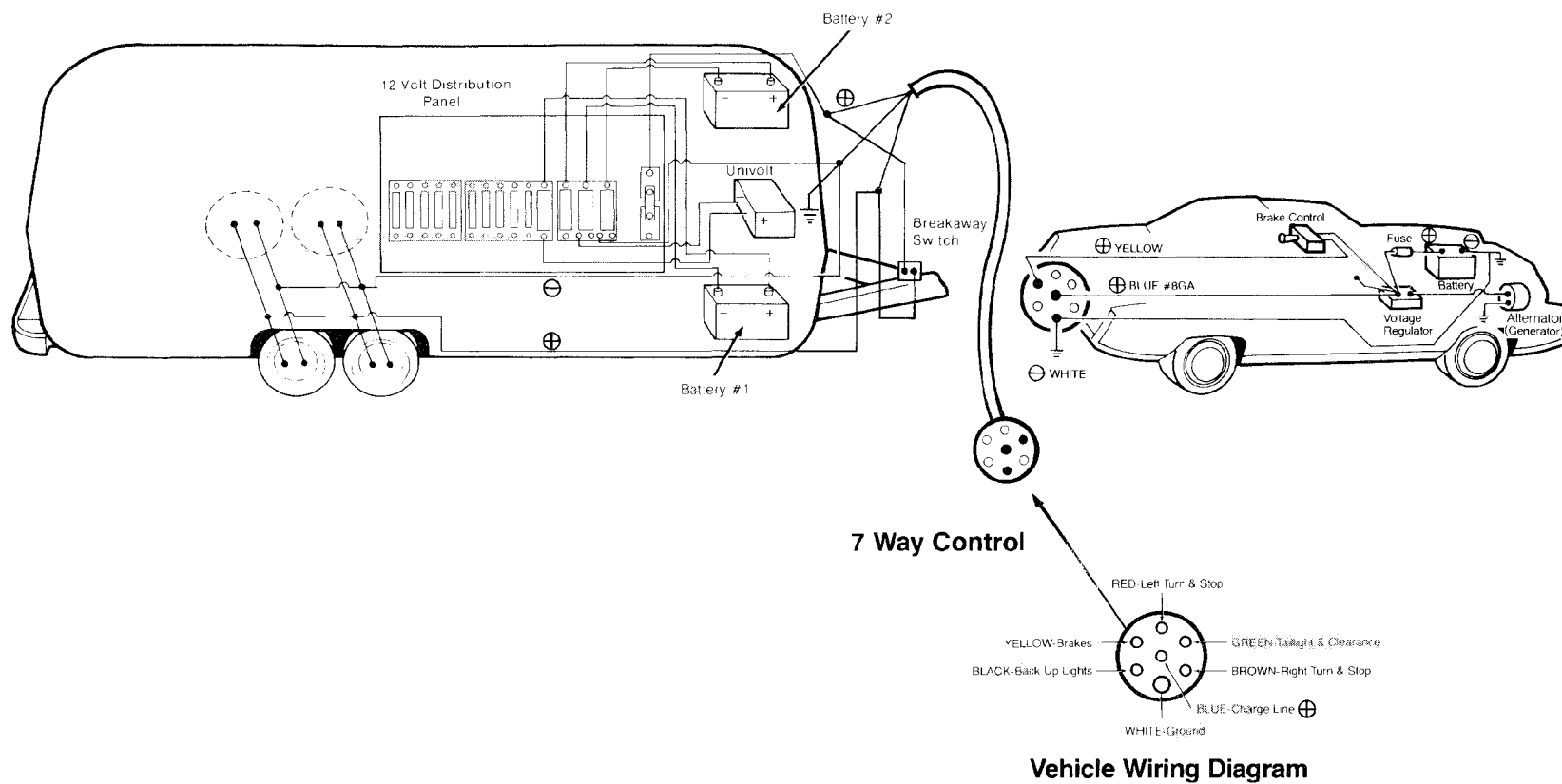
BROWN – Stop/Right Turn

BLACK – Back Up (YELLOW — Canada)

WHITE – Ground

*All lamp assemblies are grounded to exterior skin.

Main Charge Circuit and Brake Circuit



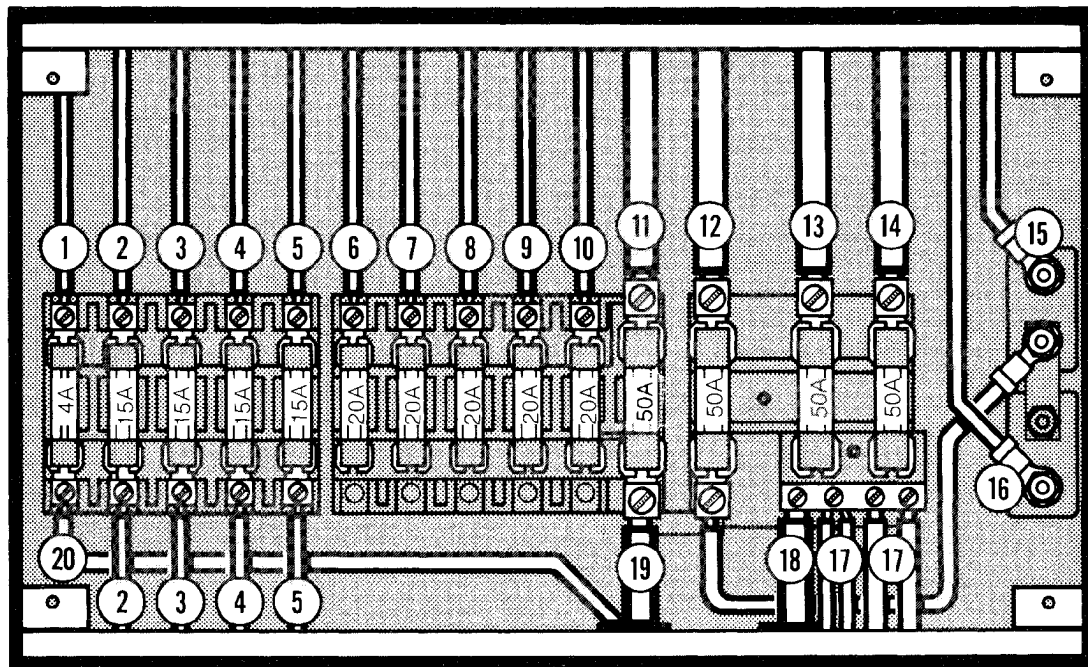
Wiring Color Code

BLUE—Main Charge Line (BLACK - Canada)

WHITE—Ground Line

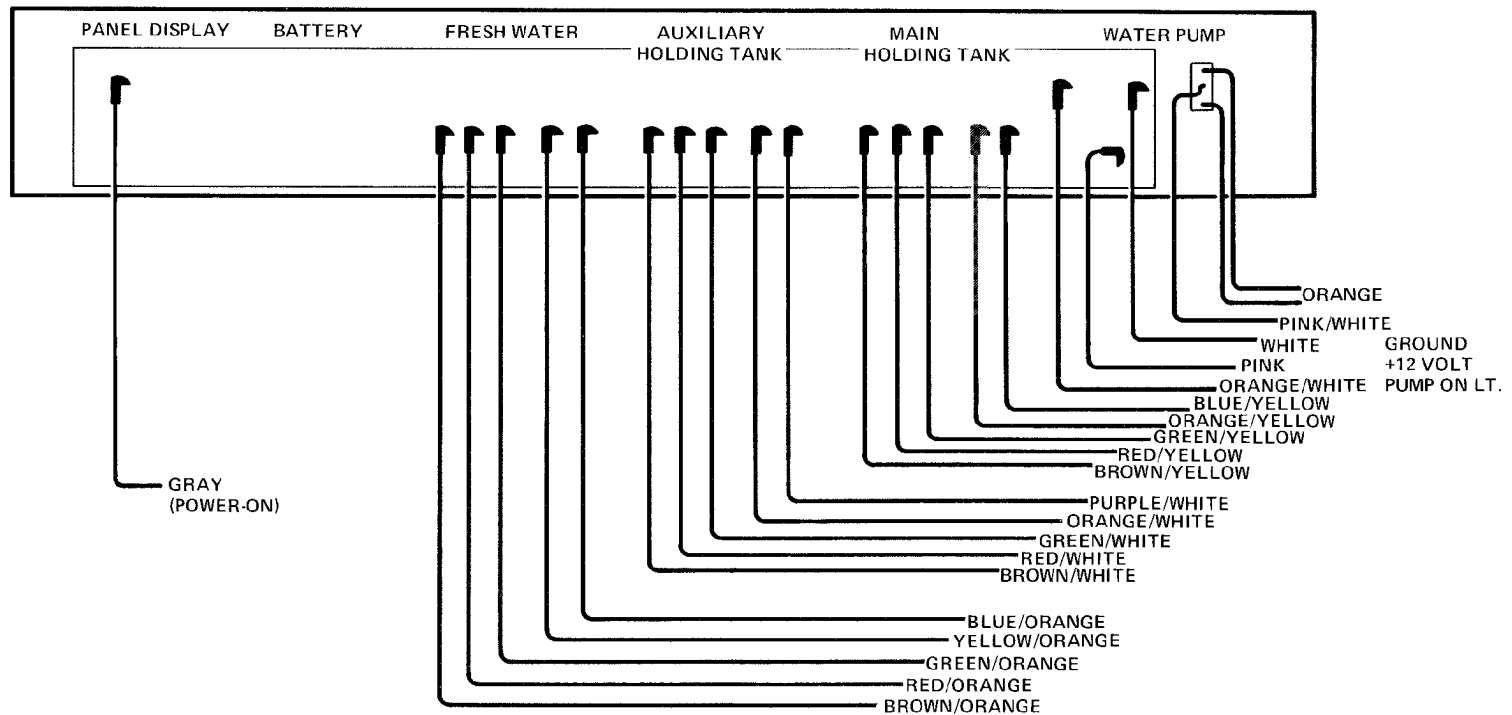
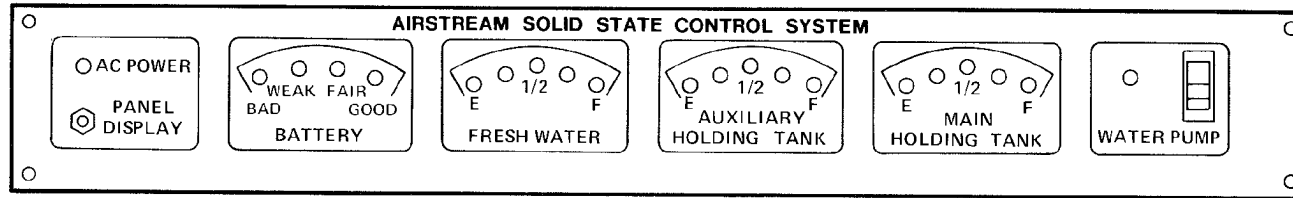
YELLOW—Brake Line (BLUE — Canada)

Low Voltage Distribution Panel



No.	Description
1	Power on, Gray
2	Back up light, Black
3	Clearance and tail light, Green
4	Left turn and stop light, Red
5	Right turn and stop light, Brown
6	Circuit No. 5, Blue
7	Circuit No. 4, Brown
8	Circuit No. 3, Pink
9	Circuit No. 2, Yellow
10	Circuit No. 1, Purple
11	Battery No. 1, positive Red
12	Battery No. 2, positive Red
13	Battery No. 1, negative Black
14	Battery No. 2, negative Black
15	Main 12 volt charge, Blue (Black Can.)
16	Power jack, Orange
17	Ground, White
18	Univolt, negative
19	Univolt, positive
20	Power on, White

Solid State Central Control System Panel



Electrical Trouble Shooting

Additional electrical trouble shooting information is available in the Airstream Service Manual.

Symptom	Possible Cause	Remedy
No 12-volt power (Lights, appliances do not work)	1. Input line and/or battery not connected 2. Discharged trailer battery 3. Trailer battery on wrong polarity	1. Make necessary connections 2. Charge battery 3. See Item 7
Blown fuse	4. Overloaded circuit (over 50 amps) 5. Electrical short 6. Shorted battery 7. Battery terminals not properly connected to UNIVOLT + and – terminals	4. Turn off switches to reduce load. Replace blown fuse in Univolt or next to Univolt. 5. Find blown fuse in Univolt and identify circuit. From wiring diagrams check the circuit for defective wiring, lamps or motors. 6. Replace battery and fuse 7. Make proper connections; replace fuse
Dim lights or slug- gish fan motor	8. 25- or 50-cycle power (some foreign countries) 9. Discharged battery (when operating with- out 120-volt line) 10. Battery is low on water	8. Use 60-cycle power 9. Charge battery 10. Add distilled water to battery
UNIVOLT will not charge battery	11. Input line not connected 12. Battery not connected (or polarity reversed) 13. Bad battery 14. Too many lights and appliances in use 15. Fuse blown	11. Connect input line 12. Connect battery to UNIVOLT (Check polarity) 13. Replace battery 14. Reduce electrical load 15. Replace fuse

Specifications

Capacities

Appliance	Capacity
Main Holding Tank — 28 and 31 Ft. Rear Bath	20 gal.
Main Holding Tank — 31 Ft. Center Bath	25 gal.
Main Holding Tank — 23 and 25 Ft.	14 gal.
Auxiliary Holding Tank — 28 and 31 Ft. Rear Bath	16 gal.
Auxiliary Holding Tank — Center Bath	25 gal.
Auxiliary Holding Tank — 23 and 25 Ft.	10 gal.
Water Tank	50 gal.
Water Heater	6 gal.

Specifications listed herein are those which are designed to be in your trailer. There may be some small differences in the capacities of individual trailers.

Light and Appliance Amperages

Item	Lamp Number	Amperage
Water Pump	—	9.9 max.
Ceiling Fan	—	4.8
Bathroom Exhaust Fan	—	2.0
Range Exhaust Fan	—	2.0
Furnace Fan	—	5.0
Toilet Exhaust Fan	—	2.0
Reading Lights:		
Living Room	1383	1.5 each bulb
Bedroom	1141	1.5 each bulb
Main Door Light	1141	1.5 each bulb
Exterior Light	1156	2.1
Ceiling Light (6 Bulbs):		
Living Room, Galley	1141F	1.5 each bulb
Bedroom, Bathroom	1141F	1.5 each bulb
Galley and Vanity Lights under Roof Locker	1141	1.5 each bulb
Trunk Lights:		
Service Center, Trunk	67	.6 each bulb
Clearance & Cluster Lights	1895	.3
Stop & Turn Signal	1156	2.1
Tail Light	1157	2.1 stop, .6 tail
License Plate Light	89	.6
Backup Lights	1156	2.1
Battery		105 amp hrs. at 80°F.

Fuses and Circuit Breakers

Circuit	Location	Rating
Main Breaker	120 volt panel	30 amp
General Circuit	120 volt panel	15 amp
Appliance Circuit	120 volt panel	20 amp
Air Conditioner	120 volt panel	20 amp
Charge Line from Car	Univolt	30 amp mini breaker
Low Voltage Circuits	Univolt	SFE 20 amp fuse
Trailer Battery Fuse (+)	Univolt	AGU 50 amp fuse
Trailer Battery Fuse (-)	Nxt. to Univolt	AGU 50 amp fuse
Power On Circuit	Univolt	SFE 4 amp fuse
Radio, Radio/Tape	Radio, Radio/Tape	IAG 5 amp fuse
Water Pump	Water Pump	6¼ SLO-BLO

Pre-Travel Check List

Interior

1. Turn off water pump switch.
2. Check battery water level.
3. Close windows and vents.
4. Turn off gas to range & oven.
5. Lock all interior cabinet doors.
6. Lock refrigerator door.
(Seal containers first.)
7. Hold down or stack securely, all loose, hard and sharp objects.
8. Fasten sliding & foldette doors.
9. Drain toilet bowl.
10. Turn off interior lights.
11. Secure and lock the Main door.
12. Pull up step.

Exterior

1. Disconnect and stow:
 - a) electrical hook-up cord.
 - b) sewer-hose hook-up hose (flush out).
 - c) water-hook-up hose.
2. Turn off gas line shut-off valve to appliances.
3. Remove and stow leveling jacks and wheel chocks.
4. Check hitch: it must be properly attached.
5. Check safety chains and breakaway switch cable.
6. Fully retract jack. Remove and stow dolly wheel.
7. Check clearance and stop lights.
8. Check lug nuts. (See page 29)
9. Check tires, for correct pressure.
(See page 30)
10. Check that TV antenna is pointed forward and dipoles closed.
11. Adjust car mirrors.
12. Pull forward some 50 ft., test brakes, and check site for forgotten objects and cleanliness.

Home

1. Leave key with your neighbor.
2. Store valuables and important papers in a safe place.
3. Discontinue newspaper, milk and other deliveries.
4. Ask the Post Office to hold your mail for you.
5. Arrange with the Telephone Company for discontinued or 'Vacation Service.'
6. Arrange care for your pets.
7. Have your lawn, garden and house plants cared for.
8. Lock all windows and doors securely.
Keep shades open for a lived-in look.
9. Cover all food to keep out mice and insects.
10. Eliminate all fire hazards. Place matches in a tin box or glass jar.
11. Store oil, gasoline and other inflammables properly.
12. Destroy all newspapers, magazines and oily rags.
13. Notify police.

Personal

14. Automobile insurance to cover you and your family fully.
15. Avoid cash. Use travelers checks and credit cards.
16. Confirm reservations.
17. Have sunglasses for everyone.
18. Pack cameras and films.
19. Make a check list of clothing for everyone, and toilet articles.

Motoring Essentials

1. Display car and trailer registration properly.
2. Carry driver's license. In Canada you will need a non-resident liability insurance card.
3. In Mexico you must have special auto insurance.
4. Carry an extra set of ignition and trunk keys in a separate pocket, or in your wallet.
5. Keep an operating flashlight with fresh batteries in the glove compartment.
6. Pack the trunk so that you can reach the tools and spare tire without completely unpacking.
7. Keep sharp or hard articles securely packed wherever they may be.
8. Do not pack things in the passenger sitting area, you need maximum space for comfort.
9. Wear easy-wash, drip-dry traveling clothes.
10. Do not make your vacation trips a mileage marathon! Stop and relax frequently.
11. Carry a first aid kit.
12. Carry your pet's dish, food, leash and health and registration papers.

Lubrication and Maintenance

Your Airstream is without a doubt the finest engineered travel trailer ever to be mass-produced. Every design feature and component has been chosen with the thought in mind of giving you thousands of miles of trouble-free operation. By adhering to the following minimum maintenance schedule and the additional exterior and interior maintenance suggestions you will enjoy all

of the pleasure you dream of from your trailer...and more.

Item	Every 1,000 miles or 30 days	Every 5,000 miles or 90 days	Every 10,000 miles or 6 months	Procedure
All Exterior Door Locks	X			Lubricate by shooting in dry graphite.
Axle				None, except wheel bearings.
Battery	X			Check water level
Brake Fluid (Hydraulic Brakes)		X		Remove reservoir cover. Add Dot 3 fluid.
Brakes			X	Inspect and replace as necessary.
Entrance Door Hinges	X			Lubricate with light household oil.
Hitch Ball Latch	X			Lubricate with engine motor oil.
Hitch Jack (Manual)	X			Lubricate with light household oil (put oil can spout up under handle and allow oil to run down post).
LPG Hold Down Knob	X			Lubricate with light household oil.
Main Door Step	X			Lubricate moving parts.
Range Exhaust Hood				Clean fan blades and wash filter. See page 67.
Refrigerator Flue Cleaning		X		See page 63.
Roof Vent Elevator Screws	X			Lubricate with light household oil.
Strike Pocket on Main Door	X			Coat with paraffin.
T.V. Antenna	X			Lubricate exterior moving parts with silicon spray or WD40.
Tires	X			Check for foreign objects. Air pressure — page 30.
Water Pump		X		Check belt for wear and proper tension.
Wheel Bearings			X	Clean, repack, and adjust.
Wheel Lug Nuts		X*		Check for tightness.
Window Seals/Door Seals		X		Clean with mild detergent and coat with "Slipicone."
7-Way Plugs and Receptacle		X		Clean contacts and coat with "SPRA-KLEEN."

Note: If and when new materials and production techniques are developed which can improve the quality of its product, Airstream reserves the right to make such changes.

*Note: On new trailers check lug nuts every 200 miles for the first 1,000 miles.

Maintenance Record

[illegible]

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1979 Airstream Service Manual

For most owners, the Owner's Manual provides the answers for normal use and maintenance of an Airstream. But some owners who are mechanically inclined want detailed information on all systems and equipment and basic construction of an Airstream. For these people we have made available a smaller, more convenient sized copy of the same Service Manual provided to our Certified Service Centers. The Airstream Service Manual includes illustrated parts lists, procedures for maintenance and adjustments, service operations, removal and installation for components, including options for all Airstream models.

The 1979 Airstream Service Manual will be available in September, 1978. To receive your copy, fill in the order form and mail to:

Airstream, Inc.
Jackson Center, Ohio 45334
or
Airstream, Inc.
15939 Piuma Avenue
Cerritos, California 90701

1000 Mile Check Authorization Card

This card entitles you, under the exclusive Airstream Certified performance checkout program to a 1000 mile (or 60 day . . . whichever comes sooner) Performance Check of your Airstream travel trailer.

In the event you are traveling or moving, this service may be performed by any franchised Airstream dealer in the United States or Canada but, of course, it is recommended that the check-up be performed by your selling dealer because of his logical interest in you as his customer.

We would suggest that you make an appointment with your dealer in advance of your arrival or inspection date.

Insurance

The Exclusive Caravanner Travel Trailer Insurance Plan

A comprehensive policy, including these five bonus benefits at no additional cost:

- Collision coverage (low deductible)
- Theft coverage against personal effects
- Personal effects coverage against damage or loss by collision, etc.
- Vacation expense allowance
- Mexico travel coverage (90 days)

Already over 30,000 Airstream owners are benefiting from this program. Fast, efficient claim service, coast to coast. Underwritten by Central National Insurance Company of Omaha, with assets of over \$64 million. This program also includes protection against these losses: fire, lightning, explosion, windstorm, hail, landslide, flood, all accessories, vandalism, and many more perils commonly insured by comprehensive coverage, (\$50 deductible).

The New Airstream Owner's Association Accident Insurance Program

A big bonus benefit available only to Airstream owners.

This program includes 24-hour protection for accidental death or dismemberment — anywhere in the world, on or off the job; on business, on vacation — or at home PLUS 2 ½ times the benefits while on a trip with your Airstream.

No medical statement is required and you will not be bothered by a physical examination or investigation. But you must be an Airstream owner, under age 70. There are 4 specialized plans from which to choose. Here's an example of benefits:

Plan B-1 (While at home) Plan offers the owner and spouse full 24-hour protection against accidents anywhere in the world, whether on or off the job, on business, pleasure, or vacation. This plan pays \$20,000 and \$10,000 to owner and spouse respectively in event of accidental death or dismemberment, and \$14.00 a day for up to 365 days while in the hospital.

Plan B-1 (While on a trip with an Airstream) Benefits are payable if the accident occurs when the insured is away from his permanent address while on a trip with his Airstream Travel Trailer. Coverage is provided 24-hours a day for all types of accidents during a trip. At this time the accidental death benefit would increase to \$50,000 and \$25,000 respectively. The daily in-hospital allowance would increase to \$35.00 a day for up to 365 days. The annual premium for plan B-1 is only \$89.

For fast efficient service and answers to your specific questions, call

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