1966 AIRSTREAM OWNERS MANUAL 24' TRADEWIND TWIN

Parranties



A GUIDE TO
HAPPY TRAILERING
IN YOUR 1966 MODEL AIRSTREAM

AIRSTREAM TRAILER SERIAL NUMBER:

MODEL: 1966 TRADE WINDTWIN 24 FT.

DIMENSIONS:

OVERALL LENGTH 24'8"

OVERALL WIDTH 96"

OVERALL HEIGHT 106"

WEIGHT: 4080 LBS.

HITCH WEIGHT: 418 LBS.

SPECIFICATIONS SUBJECT TO CHANGE If and when new materials and production techniques are developed which can improve the quality of its product, Airstream, Inc., reserves the right to make changes in the specifications printed herein.

SPECIFICATIONS:

BRAKES _______1 SET, KELSEY-HAYES, ELECTRIC

WHEELS _________4 15" DROP CENTER

TIRES ___________4, 7:00x15, 6-PLY NYLON, TUBELESS

BRAKE CONTROL __________12-VOLT, KELSEY-HAYES

HITCH BALL __________2" MARVEL

FLOOR PLAN:

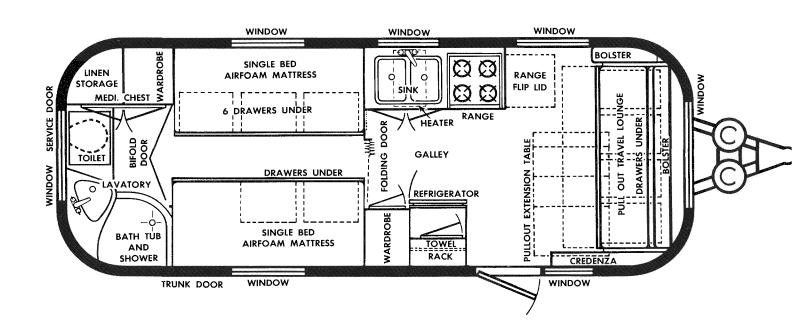


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When you took delivery on your new Airstream, the dealer explained to you the operation of all of the appliances and systems in your trailer, and gave you some tips on getting more fun out of travel trailering. This Manual will serve two purposes: It has tips on travel trailering drawn from the experiences of tens of thousands of people like you...who have taken their Airstreams into every corner of the earth. In addition, it contains operating and maintenance instructions which you will want to refer to from time to time to supplement the instructions your dealer gave you.

Should you trade or sell your trailer, be sure to pass this Manual along to the new owner; when you've read it through, you'll know how valuable it can be in getting better acquainted with the Airstream.

When you bought your Airstream you not only received the finest travel trailer ever built, you entered a new way of life...a way of life filled with new friends and adventures to come. Those who travel the byways of the world in their Airstreams are called Caravanners and they never say "Goodbye," they simply say "We'll be seeing you on the road."

FACTORY SERVICE

Airstream's policy has always been to provide the highest degree of service for Airstream owners. To this end, Airstream originated the lifetime warranty in the travel trailer industry.

A facsimile copy of the Airstream Lifetime Warranty is bound into this manual. Upon your taking delivery, the dealer should sign the attached return postcard in the place designated and mail it to the factory for proper registration of your warranty. The facsimile copy is for you to read so that you will understand the exact coverage of the warranty. As soon as the postcard is received, the permanent registered copy of the warranty for your trailer will be sent to you.

Please note that your warranty will not be in effect until it is registered, and that Airstream Factory Authorized Certified Service Centers are not authorized to provide service under the Lifetime Warranty unless it can be produced at the time the service is performed. If and when the occasion arises that you require service on your trailer, we suggest that you first contact your dealer. If the service is minor, or simply involves an adjustment, he will perform the service. Service and repair depots are listed under the various appliance sections of this manual which will provide service under their respective warranties.

For major service under your Airstream Warranty, Airstream Trailers, Inc. has established a nationwide network of Factory Authorized Certified Service Centers, staffed with factory-trained service specialists. For prompt service simply present your Airstream Lifetime Warranty to any of the Factory Authorized Certified Service Centers listed below.

FACTORY AUTHORIZED CERTIFIED SERVICE CENTERS

ARIZONA

Robert Crist and Company 1665 East Main St. Mesa, Arizona

CALIFORNIA

Boyer Trailer Sales 6668 Long Beach Blvd. N. Long Beach, California Caravan Trailer Sales 730 Fletcher Parkway
El Cajon, California
El Camino Trailer Sales 2090 El Camino Trailer Sales 2090 El Camino Real Mountain View, California Vet's Sales and Service 416 South Mt. Vernon Ave. San Bernardino, California

COLORADO

Chisman Trailer Sales 2500 E. Boulder St. Colorado Springs, Colorado Denver Trailer Sales 1746 South Broadway Denver, Colorado

DELAWARE

Richard Rice, Inc. 601 South Dual Highway Seaford, Delaware 19973

FLORIDA

Jerry's Travel Trailer Sales & Service 2710 North West 36th Street Miami, Florida 33142 C. J. Stoll, Inc. 5985 34th Street, North St. Petersburg, Florida 33714

ILLINOIS

Robert Crist and Company 9100 South Stony Island Ave. Chicago, Illinois 60617 Hunter Motors, Inc. Hunter Motors, Inc.
415 North Illinois Avenue
Carbondale, Illinois 62901
Mann's Mobile Homes
R. R. #1, North Normal, US 51
Normal, Illinois 61761
Ray's Travel Trailers
7135-49 W. Irving Park Road
Chicago, Illinois 60634

INDIANA
US 24 Trailer Sales
US Rte. 24 — East of Roanoke
Roanoke, Indiana 46783

Bill Brown Trailer Sales 3700-3708 E. 14 St. Des Moines, Iowa 50313

Files & O'Keefe of Maine Inc. P.O. 879 — Forest Avenue Ext. Portland, Maine 04103

MICHIGAN

Kolbe Trailer Sales 5785 E. Eight Mile Road Warren (Detroit) Michigan 48091 Mid-State Trailer Sales 1616 North Saginaw Road Midland, Michigan 48642 Northwoods Trailer Sales Morthwoods Trailer Sales G-6369 North Dort Highway Mt. Morris, Michigan 48458 Warner Trailer Sales, Inc. 3098 W. Huron Street Pontiac, Michigan 48054

MINNESOTA

Phil Dunning Trailer Sales 3050 Coon Rapids Blvd. Coon Rapids, Minnesota 55433 Ted's Pioneer Trailer Sales Highway 218 South Austin, Minnesota 55912

NEBRASKA

A. C. Nelsen Company 2112 Harney St. Omaha, Nebraska

NEVADA

"95" Trailer Sales 4339 Tonopah Highway Las Vegas, Nevada

NEW JERSEY

South Jersey Travel Trailer Center Delsea Drive Iona, New Jersey 08325

NEW YORK

Eastern Travel Trailers, Inc. 204 Vestal Parkway East Vestal, New York 13850 Maroone Airstream Travel Trailers Inc. Trailers, Inc. Trailers, Inc.
2550 Walden Avenue
Exit 52, East from NY Thruway
Buffalo, New York 14225
Niblack Trailer Sales
691 McLean Avenue
Yonkers, New York
O'Malley Enterprise, Inc.
P.O. 116 — Traffic Circle. P.O. 116 — Traffic Circle, Rts. 9 & 7 Latham, New York 12110

NORTH CAROLINA

Faires, Inc. P.O. 5205 — Routes 29 & 49 Charlotte, North Carolina 28206

Dut of Doors Mart 3686 Reynolda Road Rt. 67 North Winston-Salem North Carolina 27106

OHIO

Louisville Airstream Sales 1001 W. Main Street Louisville, Ohio 44641

OKLAHOMA

Brassfield's Mobilehomes 7207 N. W. 39th Expressway Bethany, Oklahoma

OREGON

Cascade-Pacific Trailer Sales 1876 Highway 99 North Eugene, Oregon

PENNSYLVANIA

Curry Airstream Sales 848 W. Chocolate Avenue Hershey, Pennsylvania 17033

TENNESSEE

Cullum's Sales & Servicenter 160 McGavock Pike Donelson, Tennessee 37203

TEXAS

Wallace Land Yacht Sales & Service 2005 Mangum Houston 18, Texas

VIRGINIA

Travel Trailers of Virginia P.O. Box 807 2211 South Main Street Harrisonburg, Virginia 22801

WASHINGTON

Roning Ton Birch Bay Trailer Sales Route 1, Box 106 Blaine, Washington Central Trailer Exchange 14433 Pacific Highway South Seattle 68, Washington

WISCONSIN

Liebzeit Mobile Homes & Travel Trailers
4110 W. Wisconsin Avenue Route 41 & 10
Appleton, Wisconsin 54914
Northside Mobile Homes
7525 West Appleton Avenue
Milwaukee, Wisconsin 53216

CANADA

Dyke's Caravans St. Luc (Rts. 7 & 9B) CO St. Jean, P. Q. Canada

Of course each Airstream plant maintains a very complete service department to take care of your major service needs. But in order to service customers most expeditiously it is necessary that these service departments be operated on a scheduled appointment basis.

Service Manager Airstream, Inc. 12804 E. Firestone Blvd. Santa Fe Springs, Calif. 90670 (213) 868-3748

Please communicate with either of the Service Managers when you intend to visit the factory, and request an appointment for service. It is beneficial also to advise the Service Managers when you are unable to meet the appointment date.

> Service Manager Airstream, Inc. Jackson Center, Ohio 45334 (513) 596-6129

WALLY BYAM CARAVANS AND CARAVAN CLUBS

You are now an Airstream owner. The magic doors to fun, friendship and adventure are wide open to you . . . and the rich rewards are endless. You are now eligible to take part in all Wally Byam Caravans and Airstream Rallies. There are two rallies held annually: one in the West and one in the East, and folks look forward to them with eager anticipation year after year.

As an Airstream owner, you are also eligible to make application for membership into the Wally Byam Caravan Club, the largest and most influential travel trailer club in the world. There are WBCC units throughout the United States and Canada. All operate autonomously, electing their own officers and setting their own dues. All new members are required to join through a local unit. (Legislation was adopted in 1962 stating that members-at-large would no longer be accepted.) At the time your application is made, International dues are paid along with Unit dues. At present, International dues are \$3.00 per year per trailer. Unit dues average from \$1.00 to \$5.00.

Some units get together for monthly Rallies while some have weekly Dutch-treat dinners in addition to their regular Rallies. In areas where weather does not permit year-round Rallies, the dinner meetings are very popular. They give members a wonderful opportunity to keep in touch and to plan Rallies for the more seasonable times of the year. International, Regional, and Unit Officers are elected annually.

If you are interested in joining the Wally Byam Caravan Club, get in touch with the secretary in your area. The name of each secretary is listed in the Headquarters Office (822 Niles Street, Bakersfield, California) and your letter will be forwarded.

The first Wally Byam Caravan was in 1951. Since then there have been 44 Caravans to most parts of the world. The annual Caravans to Canada and Mexico have become so popular that in recent years we have conducted two Caravans each year to these neighboring countries.

Traveling with a Wally Byam Caravan teaches you how to travel in a foreign country as well as how to get the most enjoyment out of your Airstream. You travel with both old and new Airstream owners; sharing experiences, learning from one another and enjoying a new kind of fellowship. On the Caravans and in the Club, you will make life-long friends — friends who become closer and dearer to you than many you have known all your life. As Wally used to say: "You will never be alone or lonely."

Traveling with the Caravan offers many advantages; the security of group travel, recognition, and unusual opportunities to see special places and meet special people. Many of these opportunities, which would never be possible for individuals, are routine for the Caravan. The blue beret, the badge of Airstream ownership and identification for a Wally Byam Caravanner and Club member, is an open sesame to excitement and adventure.

Several months before a Caravan rolls, it is announced in the CARAVANNER, our monthly publication. A registration coupon is printed for your convenience, and everyone who registers receives a detailed bulletin telling about that particular Caravan, what to bring along, and how to prepare for it. When going to Mexico and Central America, such matters as insurance, tourist cards and other details connected with border crossings are all handled for you by the Headquarters Office. When you go on a high adventure Caravan, such as one to Europe, Africa, or around the world, all details are also taken care of for you. About all you have to do is get your passport and take your shots. Those are two items we can't do for you—or we would!

On every Wally Byam Caravan, the route is carefully planned and arrangements are made for parking, entertainment, tours, etc., long before the Caravan ever leaves. A day-by-day itinerary is planned and a copy indicating the mail stops is given to all Caravanners in advance.

Although Airstream provides a Caravan team consisting of a leader, recreation director, scout, and service representative, the Caravan is actually run by committees made up of the Caravan members themselves. The Wally Byam Caravans are a family affair. Everyone participates and becomes a part of the great Airstream family. Each is an unforgettable experience. Only Wally Byam Caravanners and WBCC members are entitled to the official Caravan numbers, and to be listed in the annual directory. Club members receive their number from the Headquarters Office. The Caravanners who are not Club members receive their numbers at the rendezvous point before the Caravan leaves.

The annual directory lists all WBCC members and Wally Byam Caravanners including names of those

who have parking space available at home for fellow Airstream owners. It's really wonderful to be able to pull into the yard of a friend (even if you have never met) rather than have to hunt for a trailer park. The directory also lists a schedule of all major rallies for the year, all WBCC officers, those with Citizen Band radios, the WBCC Amateur Radio Club (hams) and a list of Wally Byam Caravans.

Since 1958 there have been annual WBCC International Rallies held toward the end of June and the first week of July every year. Wally's birthday was July 4, and the first Rally was in the form of a huge birthday party for him, patterned after the international Rallies in Europe which he loved to attend. Until 1956, when the first Wally Byam Caravan attended the rally in Perpignon, France, Wally and Stella had been the only Americans present. Everyone had such a good time at this first big get-together held in the beautiful Ozarks that the club decided to make it an annual affair. Since then International Rallies have grown tremendously in size and scope. The 1964 International Rally near Princeton, N.J. brought together more than 2000 Airstreams and some 7000 happy people. The site of the International Rally for the summer is announced in an early fall issue of the CARAVANNER.

In all our Caravan and Club activities, the program is planned for all ages — from babes in arms to those in their nineties — but you would never guess that anyone was in that 90-year bracket.

Within the WBCC are square dance clubs, past presidents clubs, Citizen Band radio clubs, the ARCs (hams), special study groups, hiking and bird-watching groups, avid fishermen and boating enthusiasts.

Along with the fun, our Airstream owners recognize the need for better legislation regarding travel trailers; more overnight parking places, more sanitary stations for emptying waste-holding tanks, etc. They're also quite alert to bills adverse to travel trailers. In this field, the WBCC has a strong National Legislative Committee, and we are justly proud of their accomplishments.

When you bought your Airstream, you not only bought the prestige travel trailer in America, but truly a whole new way of life. Enjoy it! Many new friends are waiting to be made... new interests are waiting to be found... new adventures are waiting to be discovered. We're happy to welcome you into our Airstream family.



GETTING ACQUAINTED WITH YOUR AIRSTREAM

The first thing you should do in order to get the most carefree fun from your Airstream is to get to know it thoroughly. Figures 1-A and 1-B show its exterior appointments.

There are as many accessories and appliances for your Airstream as there are for any home. Your Airstream dealer will be able to help you select those accessories you will need, depending on where you wish to travel and for how long.

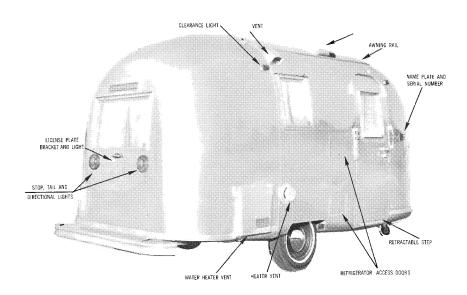
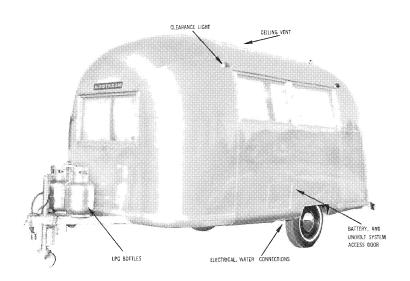


FIGURE 1-A

FIGURE 1-B



Roof lockers are equipped with hidden catches, and continuous hinges on the doors. To open the locker, squeeze the latch; to close, just shut the door firmly—the latch will engage by itself. (Figure 1-C)

All drawers and shelves in storage areas are removable, allowing you greater flexibility in arranging the storage of your possessions to your own particular liking.

The screen door screen (on 20-foot models) is made of plastic for longer wear and ease of maintenance. It can be easily cleaned with a damp cloth, and of course it can not rust. However, while it will not burn, contact with fire, such as a lighted eigarette, will cause it to melt at the point of such contact.

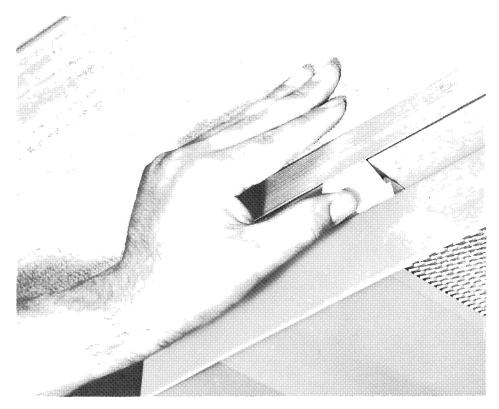


FIGURE 1-C

RADIO AND TELEVISION

Since the aircraft-type aluminum construction of your Airstream makes an almost perfect radio "shield" you will need outside antennas for good reception of either radio or television.

To install a television or radio antenna, it is recommended that you go to your Airstream dealer, since the antenna must be structurally mounted to the outside skin of your trailer. Your dealer will recommend the best folding-type television antenna for your trailer. Any Wally Byam Store will also help you with this.

A police-type telescoping whip radio antenna is recommended particularly for 12-volt transistor AM-FM radio use. This should be installed on the front of your trailer on a swivel ball mount.

AIR CONDITIONING

The Airstream Bay Breeze air conditioner is specially designed to keep your trailer cool and comfortable in the hottest weather. Since the Bay Breeze requires certain modifications in your trailer, it should only be installed by one of the many Airstream dealers who are equipped for this type of service or at one of the two Airstream factories.

GETTING ACQUAINTED WITH YOUR AIRSTREAM

The first thing you should do in order to get the most carefree fun from your Airstream is to get to know it thoroughly. Figures 1-A and 1-B show a 26-foot International model. Regardless of the particular model or size of your Airstream, most of the details shown on the photographs apply.

Figure 1-C shows the "One-Stop Service Center." This

feature gives quick access to "hook-up" and service the self-contained utilities in your trailer. Details on each utility follow in Chapters 6 through 13.

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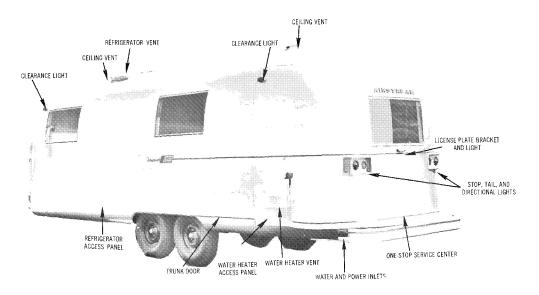
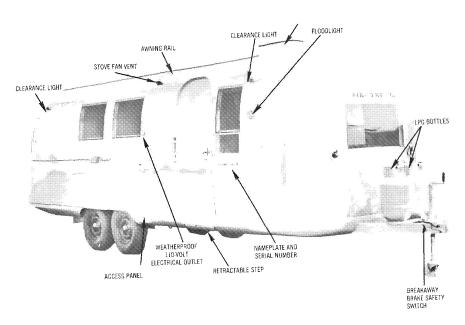


FIGURE 1-A

FIGURE 1-B



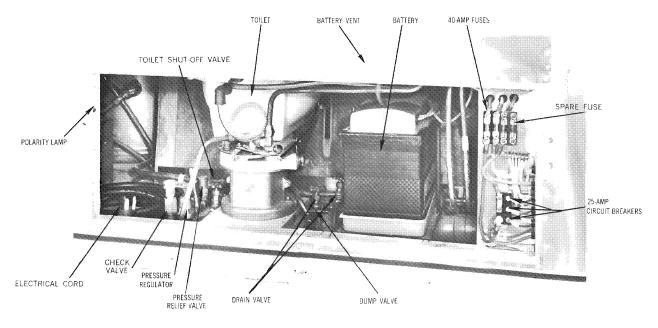


FIGURE 1-C

RADIO AND TELEVISION

Since the aircraft-type aluminum construction of your Airstream makes an almost perfect radio "shield" you will need outside antennas for good reception of either radio or television.

Your new Airstream is wired for an exterior television antenna. To install the antenna it is recommended that you go to your Airstream dealer since it must be structurally mounted to the outside skin. The lead wires will be found curled inside the wall of the trailer on the door side of the front window. The exterior antenna should be mounted to the side of the window so that the leads can be connected at that point. The other end of the leads will be found hanging behind the electrical panel behind the refrigerator. This has been located in the most convenient spot for TV viewing in your particular model. Your dealer will recom-

mend the best folding type TV antenna for your trailer or see any Wally Byam Store.

A police-type telescoping whip radio antenna is recommended particularly for 12-volt transistor AM-FM radio use. This should be installed on the front of your trailer on a swivel ball mount.

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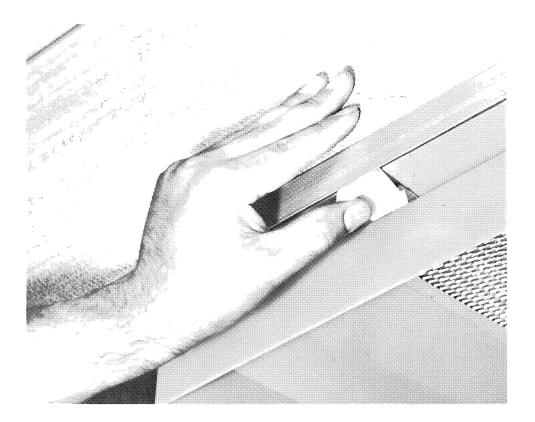


FIGURE 1-D

A FEW ADDITIONAL ITEMS

- 1. All drawers and shelves in storage areas are removable, allowing you greater flexibility in arranging the storage of your possessions to your own particular liking.
- 2. Roof lockers are equipped with hidden catches, and continuous hinges on the doors. To open the locker, squeeze the latch; to close, just shut the door firmly—the latch will engage by itself. (See Figure 1-D).
- 3. Your screen door screen is made of plastic for longer wear and ease of maintenance. It can be easily cleaned with a damp cloth, and of course it can not rust. However while it will not burn contact with fire, such as a lighted cigarette, will cause it to melt at the point of such contact.

GETTING READY FOR THE ROAD

YOUR CAR

Since your Airstream is designed and built for easy towing, almost any car has enough power and weight to tow it under level, dry conditions. However, experience has proved that a heavier car is advisable for towing the larger units (26-foot and up) under difficult weather conditions and on hills. A heavier car will also help you maintain complete control on slippery downgrades.

WEIGHT-TO-HORSEPOWER RATIO

From the experience of thousands of trailer travellers, Airstream engineers have developed a "weight-to-horsepower" ratio to serve as a guide for matching tow cars to Airstreams. To obtain this ratio, add the weight of the trailer to the advertised weight of the automobile and divide by the advertised horsepower of the automobile.

Example: To determine the weight-to-horsepower ratio for a 250 horsepower Ford sedan weighing 3829 pounds and a 26-foot Airstream weighing 3950 pounds, the formula would read:

$$\frac{3950 + 3829}{250} = 31.12 \text{ pounds per horsepower}$$

Experience has shown that the practical upper limit for most road conditions is 60 pounds per horsepower. Anything in the range of 30-40 pounds per horsepower is very adequately powered with any lower ratio being a "hot rod."

Another guide for matching the tow car to your Airstream is to have the car and trailer weights nearly the same. Your Airstream will tow easier if it is not markedly heavier than the tow car. Of course, if your car is heavier than the Airstream so much the better.

The auto transmission can be manual or automatic as you prefer. Automatic transmissions are recommended by the automobile manufacturers because they do a better job of controlling engine loads than the average driver can with a manual shift. The automatic will prolong your car's engine life.

The hitch is an all-important item. Your dealer will advise you on the best make for your particular car, but in all cases be certain that a frame-mounted hitch is used. A leveling type hitch (there are several makes on the market) allows the weight of the trailer hitch

to be evenly distributed over all four wheels of the car. It provides, in addition, a certain amount of anti-sway protection. Installation of the hitch is crucial and should be attempted only by a competent man who is thoroughly familiar with structural welding. Your dealer should either make the installation for you, or will supervise and inspect it. When installed, the top of the hitch ball should be approximately 20½" from the ground (19" for the Caravel) with the car level and not attached to the trailer. If this dimension is maintained, the car and trailer will be level. Make certain the attaching points for the safety chain and the breakaway switch are on the portion of the hitch that is welded to the car, and not on the removable ball mount.

THE ELECTRICAL CONNECTIONS

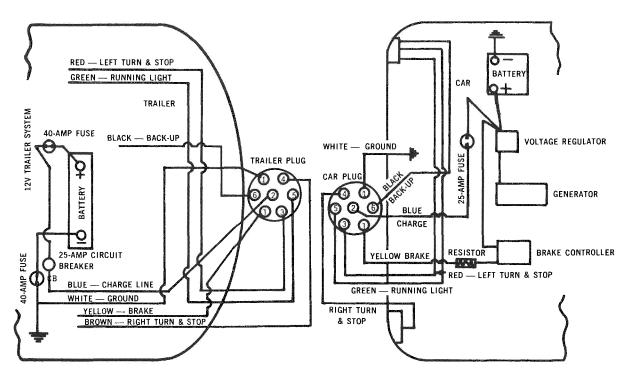
A seven-conductor auto cord wiring system is used to connect your Airstream to your car. Through a single, locking, polarized connector your trailer battery will be charged, its brakes will be operated and the running and signal lights will be activated simultaneously with those on your car. Figure 2-A is a diagram of the connector used on your trailer.

Your Airstream is equipped with Kelsey-Hayes two-shoe adjustable brakes . . . the finest trailer brakes available. To insure proper operation your car should be equipped with a genuine Kelsey-Hayes controller and resistor. Your Airstream dealer will either make the installation, or supervise and road test it for you. If you have any other controller already on your car, have it removed, and have the Kelsey-Hayes controller which came with your Airstream installed.

ACCESSORIES FOR YOUR CAR

A truck or trailer type rear view mirror is required by law in most states. This is to allow you to see out past the trailer. Several good makes are available from your dealer. A right-side rear view mirror is also highly recommended.

If your car has an automatic transmission and you intend to travel through mountainous country, you may wish to have a transmission oil radiator such as the Hayden Trans-Cooler installed to help your engine and transmission to run cooler and prevent possible damage. This is available through your Airstream dealer.



NOTE: Polarity of trailer battery must match polarity of car battery; e.g., if negative pole of car battery is grounded, negative pole of trailer battery must be grounded.

Spare 40-amp fuses should be carried (available at larger auto supply or truck parts stores)

FIGURE 2-A

OUTFITTING YOUR TRAILER

Outfitting your Airstream, that is converting the bare vehicle you bought from the dealer into a comfortable home, is very similar to outfitting any home or apartment. Your Airstream is completely furnished, but there are many little personal touches you will want to add. Since your Airstream will be subject to the vibration and bumps of the road, anything that is attached should be done so firmly. A small hand drill should be used to drill holes in the aluminum inner walls and one-half inch No. 8 sheet metal screws, with flat binder heads, used to attach such things as hooks for clothing, book shelves, extra towel racks...those little accessories you "can't do without." Note: Always check polarity light after drilling through skin to make certain you have not drilled into a wire and caused a short.

EQUIPMENT YOU SHOULD CARRY

- 1. A first aid kit.
- 2. A tool box with an assortment of small hand tools such as screw drivers, hammer, pliers, wrenches,
- 3. A tow rope. 34" to 1" nylon is sufficient. At least 35 feet is recommended.
- 4. A lug wrench to fit your trailer wheel lugs.

- 5. A hydraulic jack for your trailer axle.
- 6. A set of stabilizing jacks.
- 7. A spare tire for your trailer.
- 8. A fire extinguisher.
- 9. Plastic buckets for carrying water (at least two).
- 10. Wheel blocks. These should be 4 blocks of wood approximately 7" square and 4" thick, slanted at one end to fit against the tire, to block the wheels when parked.
- 11. A hundred feet of %" water hose. (A "Y" connection is useful when you travel with others since it permits two trailers to be hooked together on one faucet.
- 12. 1 short (4 ft.) and 1 long (10 ft.) sewer hose and a coupler.
- 13. A 75-foot 3-wire electric cord with a 30-amp capacity, with grounding-type 3-prong plug and receptacle.
- 14. A small spirit level (two will be helpful).
- 15. A flashlight.
- 16. A short handle shovel (the Army surplus G.I. type is satisfactory).

- 17. A pick or pry bar.
- 18. An axe.
- 19. A five gallon gasoline can.
- 20. A large funnel.
- 21. A folding chair for each person.
- 22. Cleaning equipment: broom, dust pan, mop bucket, mop, sponges, etc.
- 23. Road emergency flares.
- 24. Spare cartridge-type 40-amp fuses.

In addition to the above, you will find many other accessories to make your trailering more enjoyable, available at Wally Byam Stores and your trailer dealer. As you travel you will develop your outfit to suit your particular trailering needs.

LOADING YOUR AIRSTREAM

When you took delivery of your Airstream, you received a trailer that was the result of millions of miles of road testing and towing in every clime and terrain. The center of gravity and the weight placed on your car's hitch has been precisely calculated to provide the easiest possible towing. You can maintain this easy-towing trim by following two basic rules.

- 1. Keep your trailer as light as possible.
- 2. Distribute the weight as evenly as possible.

The amount of baggage and personal gear that you take is determined by how you like to travel and where you will be traveling. However, every item that you take along is one more thing that you will have to stow before going on the road and will add just that much more weight which your car must pull. Regardless of what weight of personal belongings you take with you, always make certain that you maintain the perfect balance that has been built-in your Airstream. The loaded Airstream should have 12% to 15% of its total weight on the trailer hitch. A tongue that

is too light can cause the front end to float and the trailer to weave at higher speeds. When it is too heavy it may prove too much for your car.

Your Airstream is designed with storage space arranged in such a way that if ordinary things are put in ordinary places the weight will come out about right. If you are carrying heavier items, place them near, or just forward of, the wheels. Stow everything as low as possible to maintain your low center of gravity. Keep fragile things well forward of the axle as the front of the trailer is stabilized by the hitch, while the back will tend to bounce more.

Secure loose items left out in the open to prevent them from sliding around while you are towing your Airstream. Stack loose material such as chairs on the floor. Lash down smaller objects that are not put into a cabinet. Place heavy loose items such as can goods in drawers near the floor.

The extra care that you take while you are loading your trailer will pay off in reduced strain on your car's engine and springs. This may not be too important on super highways, but a few hundred miles of rutty country road will prove the wisdom of loading your trailer properly. As you become a more experienced trailer traveler, you will undoubtedly pick up tricks such as using aircraft shock cord to lash down radios and other objects that you don't want to put in cabinets; placing hooks in strategic places so that the shock cord can be quickly attached. When packing your cupboards remember that a partially empty cupboard will permit the contents to move about and become damaged; it is better to have one full roof locker and one empty one than two which are half-filled.

Never carry pierced containers of liquid in the refrigerator; always make certain that all containers are tightly sealed. Liquids such as milk and juices should always be transferred to plastic containers with tight fitting caps. If you must carry paper cartons, place a sheet of heavy cardboard between the carton and the wire shelf to prevent the wires from wearing through the carton.

You are now ready for travel adventure.

TOWING YOUR AIRSTREAM

HITCHING UP

Hitching your Airstream to your car is something that will become almost second nature to you. You will develop your own technique with practice but there are a few tips, learned from experience, which will help you. The first thing to do is to jack up the trailer tongue until there is clearance for the hitch ball to slide under. Raise the locking lever on the hitch. The car now should be backed, straight back, to the hitch connection. This can be made easier by placing a strip of tape on the rear window of your car and another on the front window of your trailer. By sighting over these two strips of tape you will be able to line up the hitch with the hitch ball closely enough to make the hook-up by yourself. Of course, the job is much easier if you have the help of another person and use prearranged hand signals.

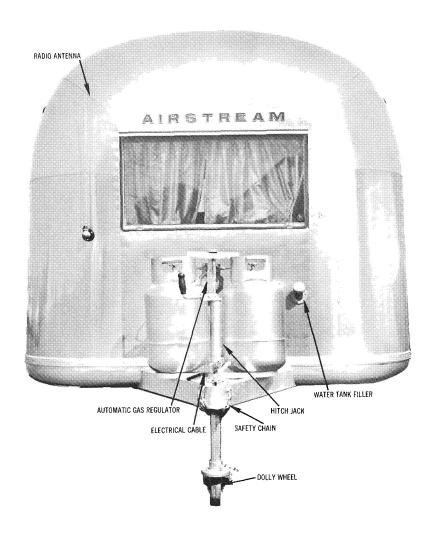
When you have lined up the ball under the hitch, screw the trailer jack down until the full weight of the trailer is on the ball. Drop the locking lever and place the safety bolt in the hole to prevent the lever from being accidentally lifted.

If you have a leveling type hitch on your car, jack up the trailer to the full height of the jack before pulling up the leveling bars. A little practice with your hitch will teach you how far to pull up the leveling bars to get the car and trailer level. Always do this on level ground.

Plug in the electrical light and brake connector. Check running, directional and stop lights.

Attach breakaway brake cable to car. Attach safety





chain to car. Note: In many states it is illegal to attach the safety chain to the hitch in front of the ball and for good reason. If there ever is an accident, the most logical failure would be at the ball. Always attach the safety chain to your car's frame or to the hitch at some other point.

Retract the hitch jack to its full height for maximum ground clearance. Remove the dolly wheel and stow it in your car's trunk or some other safe place. Never tow your trailer with the jack down and the dolly wheel on. The dolly wheel is not designed to be left on the jack and may fall off and become lost during travel.

Move the car ahead slowly and test the trailer brakes. Have someone verify the operation of your trailer's running and stop lights.

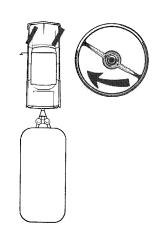
BACKING YOUR AIRSTREAM

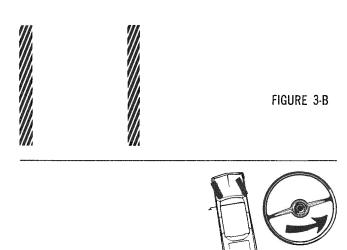
Backing your Airstream is really quite simple. The important thing to remember is to do everything slowly and to correct immediately if the trailer starts turning in the wrong direction.

Concentrate on the rear of your trailer. The first thing to do is to aim it in the direction in which you wish to back.

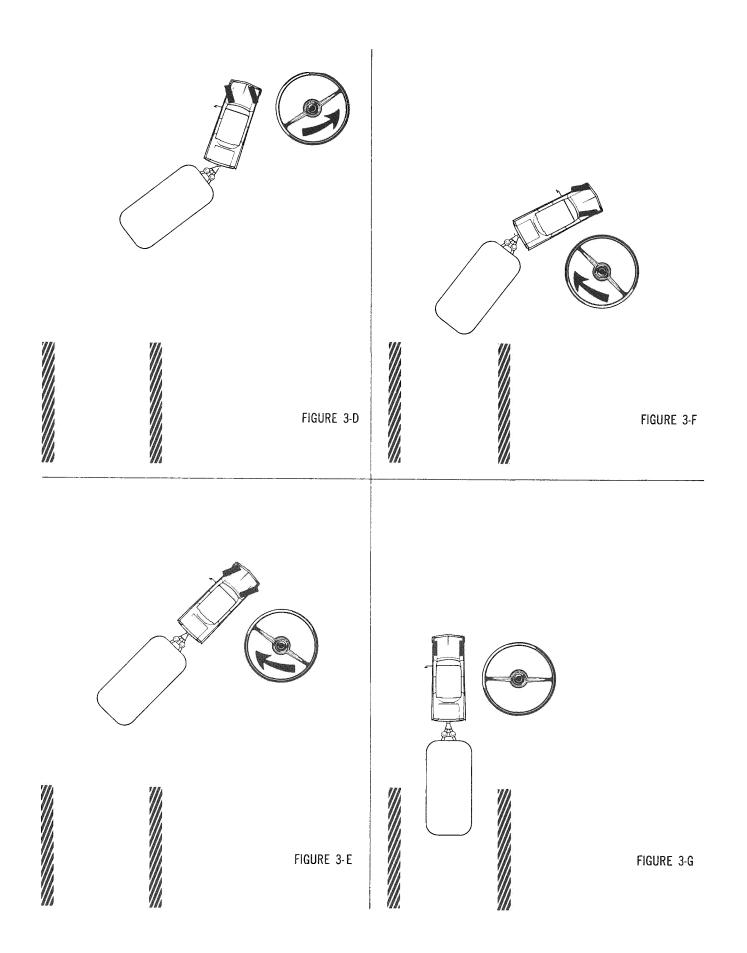
Grasp the steering wheel of your car at the bottom and while backing as slowly as possible turn the wheel in the direction you want the rear of your trailer to go (see figure 3-B). Watch, either in your side rear view mirror or by sticking your head out the window, until the rear of your trailer is pointing in the right direction. Next, while backing slowly, turn the steering wheel slowly in the opposite direction. Your car is now following the trailer in an arc (figure 3-C). If the trailer starts to jackknife or is not turning quickly enough, slowly correct the direction with the steering wheel or stop completely, pull forward a few feet and start again. When you want to change directions while backing turn your front wheels more sharply (figure 3-D). As soon as the rear of the trailer has turned in the right direction slowly turn the steering wheel in the opposite direction (figure 3-E) and follow the rear of your trailer around the new arc (figure 3-F). To go straight back pull the trailer forward until car and trailer are in a straight line. Put the car in reverse and back slowly making small corrections with the steering wheel as necessary to keep in the straight line (figure 3-G). If the trailer gets out of line, stop, move forward a few feet and start over again.

A few hours practice in a large parking lot or on a deserted road will make you an expert in backing your Airstream.









TIPS ON TOWING YOUR AIRSTREAM

Before you start out, always make it a practice to go through the following check-list:

- 1. Disconnect and stow the electrical hook-up cord.
- 2. Disconnect and stow sewer hook-up hose.
- 3. Disconnect and stow water hook-up hose.
- 4. Turn off gas line shut-off valve (under top of range).
- 5. Check clearance, tail and stop lights.
- Remove and stow leveling jacks and wheel chocks.
- 7. Check hitch to make certain it is properly atattached by cranking down the hitch jack until the rear bumper of the car is raised about 6 inches above normal.
- Raise jack to full height, remove and stow dolly wheel.
- 9. Close windows and vents. Lock door.
- 10. Pull up the step.

Experienced trailer travelers make it a habit to move their rig ahead about 50 feet, stop, get out and walk back and check the ground where the trailer has been standing. This practice can save you countless dollars and annoyances from lost tools and other gear.

The key to towing any trailer is to do it smoothly. Starting and stopping slowly and smoothly saves gas, wear on your car and prevents damage to the gear stowed in your trailer. Your Airstream is designed to be towed at any legal speed that is safe for your car alone and you will find that your Airstream tows and follows your car so effortlessly you may soon forget it is behind you. Never permit yourself to do this. When you are towing the trailer you should always maintain an interval with the car in front of you of at least a car and trailer length for every 10 miles per hour of speed. This gives you ample time to stop in the event of an emergency and permits drivers behind you to pass and get back into your lane safely. Remember, when you pass another vehicle that you will require a little longer than usual to accelerate and that you must allow for the length of the trailer when returning to your lane. Try to pick the lane in which you want to travel and stay in it.

You will substantially increase your gas mileage if you can avoid unnecessary starting and stopping. Before you come to stop signals, slow down and time it so that you will not have to stop completely. Take a tip from professional drivers when rounding turns; instead

of staying at full speed and then putting on the brakes, slow down well in advance of the turn, enter it at reduced speed, then accelerate smoothly as you come out again onto the straight-away.

When going up a long grade, shift into a lower gear well in advance of when your engine labors. When going down a hill, use a lower gear, or a lower range if you have an automatic transmission, so that the compression of the car engine will help slow your whole rig.

When you are stopping on slippery pavement however, never use engine drag to help you slow down because the drag on the rear wheels may cause skidding and jackknifing. When stopping on slippery pavement, using your trailer brakes slightly in advance of your car's brakes will prevent any tendency to skid and jackknife. Chains don't do any good on trailers. When driving on icy roads take it slowly and if it feels that the car is skidding, gently apply the trailer brakes to keep the trailer and the car in a straight line.

When stopping on dry and normal pavement, applying your Airstream brakes simultaneously with your car's brakes will stop your entire rig in approximately the same distance that your car's brakes will stop your car alone. When stopping on a hill or slight grade, if leaving the car in gear is not sufficient to keep the outfit at a standstill safely, chock the wheels with a block of wood. Whenever you park your Airstream on a hill or slight grade and disconnect the car *always* block the wheels.

One of the hardest things on any trailer is the "thank you ma'am" — the sharp dip or depression in the highway such as you may encounter on cross streets where gutters continue through the intersection. This straight up-and-down thrust can very easily damage any item left loose in your trailer. Take dips and depressions slow and easy and be certain that the trailer as well as the car has passed them before resuming normal speed. If the rear end of the trailer drags bottom, it won't do any damage if you are traveling slowly.

To prevent overheating when driving in the mountains never let your car labor. Shift to a lower gear, or range if you have an automatic transmission, before it becomes absolutely necessary. Your car's ability to pull without becoming overheated is a function of the engine, your car's cooling system, the transmission, the weight of your trailer when loaded and the type of terrain over which you are traveling. A little practice will teach you your car's limits and it will pay you in time and money to stay within them to prevent the

heat damage to the engine and transmission.

When traveling through sand or mud always keep rolling; let your momentum carry the tow car and trailer through. Don't depend too much on the drive wheels. Stay in the rut of the car ahead, if possible, and keep your car in the highest possible gear. The easiest way to get a stuck outfit out of the sand or mud is by towing it out. Carry a length of rope or chain to attach to a passing car or truck for this purpose.

If you tow long distances over unimproved roads, the stones and gravel picked up by your tires and thrown back can dent and scratch the beautiful aluminum finish of your Airstream. To prevent this, experienced trailer travelers use masking tape to secure heavy sheets of paper or plastic onto the lower front of their trailers.

Get into the habit of regularly checking the lug nuts

on your tires and the tire pressure. Traveling over bumpy, rough roads can loosen lug nuts and if the wheel should come off it could cause severe damage to your Airstream. Experienced trailer travelers always check the condition of their tires, the tightness of the lug nuts and the tire pressure before "hitting the road."

SECURING THE MAIN DOOR

It is very important that the main door of your trailer be completely closed during towing. If it is not properly secured, the constant vibration of travel can cause it to fly open and possibly break.

To lock your door for towing, turn the deadbolt clockwise as far as it will go; the knob will be in line with the punched mark on the surface of the deadbolt plate. CAUTION: The door latch also acts as a deadbolt when it is locked. DO NOT slam the door with either the door latch locked or the deadbolt in the locked position.

STOPPING FOR THE NIGHT

When you bought your Airstream you freed yourself from the tyranny of the timetable and the necessity of making reservations wherever you go. There is no end to the number and variety of interesting and convenient places where you can park your Airstream overnight, or for several days. Your Airstream is built to be safely parked on practically any spot that is relatively level and where the ground is firm. You have everything with you, self-contained, that you could ask for. Airstream owners have parked virtually every place imaginable from filling stations, to farm lands, in driveways, etc. In time you will develop a nack for spotting wonderful little roadside locations by turning off the main highway and exploring.

The North American continent is generously dotted with thousands of modern, private trailer parks that have special facilities for trailers. These generally offer considerable privacy and easy utility hook-up facilities for electricity, water and sewage ... all at modest rates. You will find many Federal, State and Civic trailer parks that are clean, inexpensive and are located in beautifully wooded areas with convenient access to utilities.

On overnight or weekend trips the chances are that you will not use up the capacity of your sewage holding tank, deplete your water supply or rundown the battery which supplies your 12-volt current. On a longer trip, when you have stayed where sewer connections and utility hook-ups are not available, it will be necessary for you to stop from time to time to dispose of the waste in your holding tank and replenish your water supply. Many gas stations (chains and individually owned) have installed sanitary dumping stations for just this purpose.

Many trailer travelers who prefer to make their overnight stops "off the beaten path" make it a practice to stop at trailer parks every few days to replenish their water supply and dump the waste from their holding tank. (Refer to Chapter 13 in Section II for details on the operation of the waste holding tank).

In stopping for the night, unless the car is needed for

transportation, it is not necessary to unhitch. The trailer should be somewhere near level for comfort, and closer than that for good gas refrigeration during a longer stay.

Try to pick as level a parking spot as possible. Stabilizing jacks or blocks probably won't be required for an overnight stay; putting the jack pad on the hitch jack and running the hitch jack down to take the weight off the car's springs should provide enough stability. If you must park on a slope, park down-hill; it is easier to level and stabilize 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.
- 2. Turn on the gas supply at the stove and light the stove and oven pilots (oven only on 26-, 28-, and 30-foot models).
- 3. In the 17' Caravel throw both switches in the trunk compartment to the "Battery Power" position.

Before moving on be sure to check your campsite, both for cleanliness and to be sure you haven't left anything behind; turn off the gas supply pet cock to the stove; make sure everything is properly stowed, your hitch is tight, your electrical connection is made, you are ready for travel adventure!

Note! Several directories of trailer parks are available. Check your dealer for his recommendations. These include:

- a. Woodall's Mobile Home and Travel Trailer Park Directory (Woodall Publishing Co., 740
 N. Rush St., Chicago 6, Illinois) \$2.
- .b Travel Trailer Park Guide (Mobile Home Manufacturers Association, 20 N. Wacker Drive, Chicago 6, Illinois) \$1.
- c. California Mobilehome Park Directory (Western Mobilehome Association, 5768 Pico Blvd., Los Angeles 19, Calif.) \$1.
- d. Florida Trailerite Handbook (Trailer News Publishing Co., Coral Gables, Florida) \$.60.

PREPARING FOR AN EXTENDED STAY

Making a long trip in your Airstream is not very different from making a week-end excursion. Since everything you need is right at hand you are at home whereever you go. When packing for an extended trip take everything you need, but *only what you need*. Follow the tips in Chapter 2 on stowing your belongings.

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 as steady as possible.

LEVELING

For comfort and for good refrigeration, it is very important to have your trailer as level as possible. To get it level use small spirit levels located as follows:

Two on the tongue; one in front and one in back; and one near the door (either mounted over the door or on the floor. Or... Two placed at a 90° right angle to each other, on the trailer floor.

Don't expect to get all bubbles in the exact center, just try to get close.

To level front-to-back:

Disconnect hitch, put jack pad on jack and screw down until you are level.

To level side-to-side:

Run the wheels on the low side up a small ramp consisting of a wedge about 3 feet long, tapered from 1" to 4-5".

Block the Wheels.

Use blocks or stabilizing jacks at all four corners to

eliminate the natural spring action of the axles and give you a stable floor.

Note: When using stabilizing jacks never put a great deal of pressure on them when they are placed on the rear bumper of the trailer. Whenever the trailer must be lifted with a jack, as when changing a tire or leveling on very rough terrain, always place the jack under the main frame member which is located 15" inboard from the outside edge of the trailer and 4" to the rear of the wheel well. Lifting the trailer by the bumper may cause "canning" of the roof or back end sheets.

Remove the cap from the water and power entry fitting. Hook up to the water by attaching a 5%" water hose to the city water service. (See Chapter 12 for details on operation of the water system.)

Plug the electrical cable, located in the same compartment, into the city power service. Be sure you have the wire grounded and have the proper polarity (See Chapter 11 for proper procedure).

Hook your waste drain hose into the sewer disposal facility and attach to the drain outlet in your trailer by removing the drain cap, pushing hose on and twisting until it feels secure. Open holding tank dump valve; drain and flush tank; close valve. (See Chapter 13 for details on operation of sewage system).

Turn on the gas petcock under the top of the stove; light the stove and oven pilots (oven only on 26-, 28-, and 30-foot models). Light the water heater, refrigerator, and furnace pilots. (See Chapters 6 through 10 for operation of the LPG system and appliances.) Enjoy the good life!



SECTION II

THE SELF-CONTAINED UTILITIES IN YOUR AIRSTREAM

There are four complete utilities systems built into your Airstream: Gas; Electricity; Water; and Sewage. These utilities permit you to cast loose the bonds of civilization and travel where you wish without sacrificing any comforts.

The next eight chapters of this Manual are devoted to instructions for operation and maintenance of the utility systems in your Airstream. If you require specialized service contact your Airstream dealer, the nearest Airstream factory or one of the factory service depots listed under the chapter on the individual appliance.

THE LPG (LIQUID PETROLEUM GAS) SYSTEM

The LPG system in your Airstream is illustrated on the reverse side of this page.

Your Airstream is equipped with two bottles for LPG (Liquid Petroleum Gas). LPG burns with a clean blue flame and produces much more heat than natural gas. 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 around and Propane is used where sub-freezing temperatures are common, since Butane freezes at 32°F as compared to 0°F 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 bottle of gas will last is of course dependent on usage. In cold weather when you are using the furnace extensively; large amounts of hot water; and are doing extensive cooking, you will naturally use more than you will in warm weather and when you do limited cooking. On the average, with normal cooking and other appliance use, you can probably count on three weeks service from each full 28-lb. bottle or two weeks from each 20-lb. bottle.

International models are equipped with an Automatic Gas Regulator. Both tanks are connected to the A.G.R. and are turned on. Gas is drawn from only one bottle at a time and when the bottle being

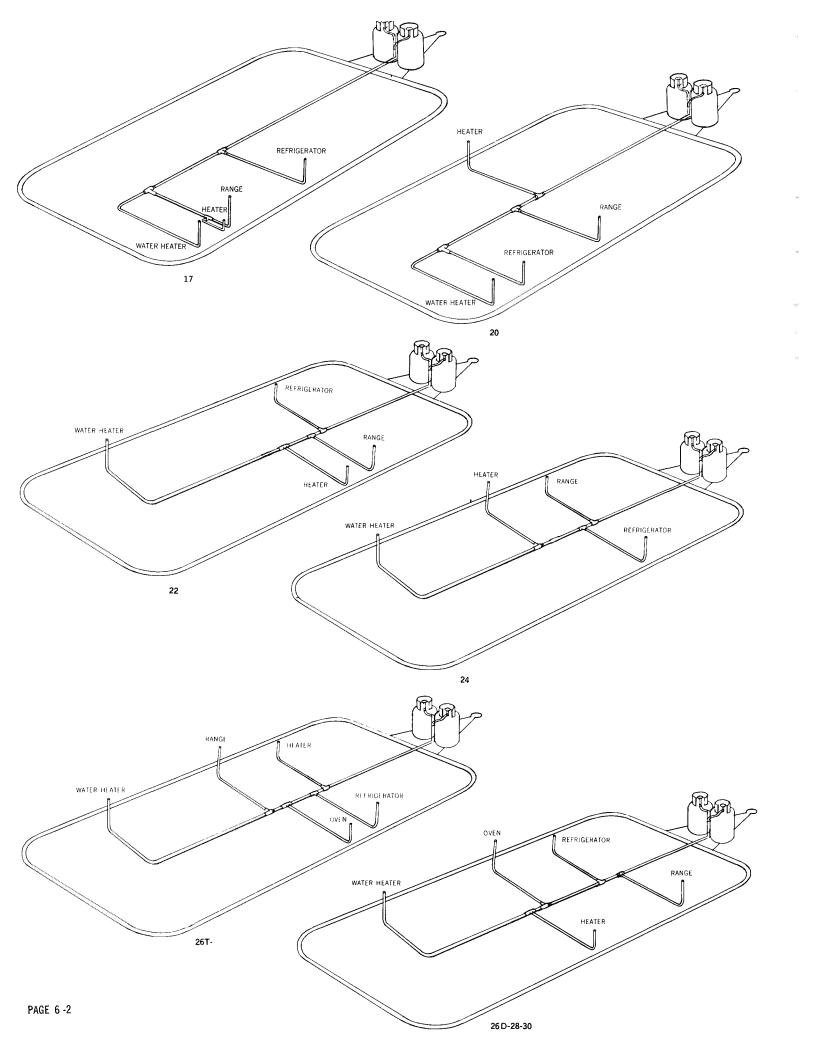
used is depleted the A.G.R. automatically switches to the full tank. An indicator on the A.G.R. points toward the tank being used to give you a visual reminder when one tank is empty. The empty tank can be removed for refilling without disturbing the tank being used. Simply disconnect it, have it filled and re-connect. When the tank being used is emptied, the A.G.R. will automatically switch over, provided the other tank valve is also open.

Turn on gas petcock under top of stove; light stove and oven pilots. Light water heater, refrigerator and furnace pilots (if out). See Chapters 6-10 for operation of LPG system and appliances.

Enjoy the good life!

To remove the gas bottle, disconnect the tubing nut with a wrench and loosen the large wing nut which holds the bottle in place. The tubing nut has a *left hand thread* so be sure to always turn it *clockwise* to loosen and counter-clockwise to tighten. When replacing bottles, connect and tighten bottles before clamping them in place.

If you have allowed both bottles to run out, air may have gotten into the lines. In this event the air must be forced out through the lines by the gas pressure before you will be able to light your pilots. Hold a match to the pilot of the appliance closest to the tanks until it lights. Then move to the next closest, etc.



THE RANGE AND OVEN

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

RANGE

- 1. Your range is equipped with coaxial orifices for use with LP gas. The flame will be approximately ½-inch long.
- 2. Air shutters on top burners are to be adjusted so that each cone of the flame is separate and distinct and appears as illustrated in Figure 7-A Air shutters set too far open will cause flame to lift away from burner head and will be difficult to light. If air shutters are closed too much the flame will look hazy and the distinct cones will be missing.
- 3. On all trailers except the 26-, 28-, and 30-foot models, adjust the top pilot so that the tip of the flame is just over the edge of the inner cone. The burners should light within 4 seconds. If lighting is difficult, refer to No. 2 above.
- 4. On 26-, 28-, and 30-foot models, never allow the top cover to be closed while the stove is in operation, as this will extinguish the flame and permit the gas to escape into the trailer.

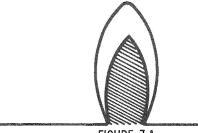


FIGURE 7-A

TROUBLE SHOOTING

Trouble — Flames "Lift Off" Ports
Cause: Too much air, gas, or both.
Remedies: Decrease air, gas, or both.

Trouble — Soot formations

Cause: Too much gas or not enough air. Remedy: Decrease gas or increase air.

Trouble — Burner noisy when extinguished

Cause: Too much air.

Remedy: Readjust air shutter.

Trouble—Flame flashes back into air mixture chamber Cause: Too much air in proportion to gas.

Remedy: Slightly increase gas or decrease air.

Trouble — Orange Flame

Cause: Small filings in new burners or dust in air. Remedy: If trouble persists clean burners.

Trouble — Burner fails to light Cause: Usually too much air. Remedy: Decrease air.

OVEN SECTION

1. To adjust pilot: (refer to Figure 7-B)

The automatic oven burner pilot in your oven consists of two separate pilots, a small constant pilot and a larger heater pilot. The constant pilot, which should be burning at all times when parked, ignites the heater pilot in the oven burner. To adjust the burner: Open pilot valve (A), light constant pilot (B) with match and adjust pilot valve (A) by reducing flame on constant pilot (B) until yellow tip disappears.

To adjust the heater pilot turn control knob (C) to 300° on the temperature setting on the control knob dial. This will permit gas to flow through the heater pilot tube (D) to the heater pilot (E) where gas is ignited by the constant pilot (B).

Remove control knob (C) and bezel (CC) and adjust heater pilot gas supply by turning green heater pilot adjusting screw (F) on front of control valve until flame on heater pilot (E) yellows. Then close adjusting screw until yellow tip disappears. Replace bezel and control knob.

IMPORTANT: YOUR OVEN IS EQUIPPED WITH A SAFETY IGNITION THAT REQUIRES A MINIMUM OF 30 SECONDS TO OPERATE AFTER TURNING OVEN KNOB ON. THE OVEN PILOT MAY BE SLOW IN LIGHTING DUE TO AIR IN GAS LINES.

2. To adjust main burner:

Your oven is equipped with a coaxial orifice for use on LP gas. The main burner when adjusted to the proper rate will have a flame approximately %-inch long. The air shutter on the main burners should be adjusted so the cone of each flame is separate and distinct. See figure 7-A.

IMPORTANT: The thermostat on your range **does not** have a by-pass setting. It will cycle off and on at all temperature settings. No by-pass adjustment is necessary.

CLEANING INSTRUCTIONS AFTER RANGE IS IN USE

- 1. To assist in cleaning the area around the top burners, on all models except 26-, 28-, and 30-foot, the main top has been hinged from the back so that it can be raised. Care should be taken during the cleaning operation that you do not touch the hot pilot shield. Also, when the cleaning operation is completed, be sure that the flash tubes are back in place.
- 2. If top burner heads are cleaned with any cleaning compound, care should be taken to see that all ports are opened up with a toothpick to assure proper operation. It is especially important that the lighter ports on the side of the burner head are kept clear.
- 3. Spill overs or spotting in oven or broiler are more easily removed when done promptly after they occur. Never wash porcelain when warm. Never use cleaning powder containing grit or acid.

NOTE: If oven bottom is removed for cleaning or servicing, be sure that oven bottom is locked in place when it is put back in the range. The front return flange on the oven bottom must hook under the side support angles to prevent warpage.

NOTE: The range gas line shut off valve located under the top of 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 absolutely sure oven pilot light has been relighted as soon as range valve is turned on.

On 26-, 28-, and 30-foot models the oven gas shut-off valve is the left-hand knob on the face of the oven. It should be turned off when traveling, or when gas tanks are being changed. You need not re-light the pilot unless you want to use the oven.

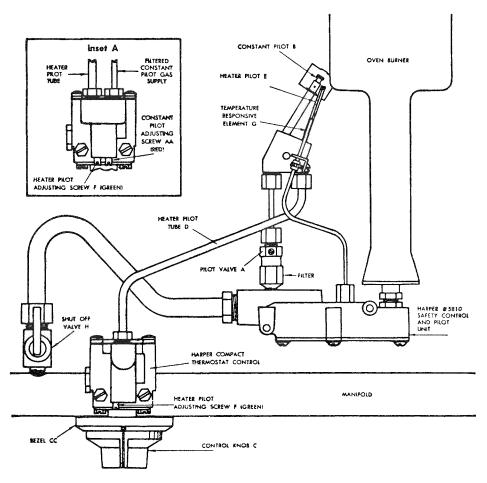


FIGURE 7-B

THE REFRIGERATOR

Your Airstream is equipped with an A.G.A. approved Dometic gas-electric refrigerator (gas only in the case of the 17' Caravel). These are the finest refrigerators available for travel trailer use and will give you many years of faithful service.

Whenever you park your trailer care should be taken that it is accurately level for best operation of this refrigerator. When parking try to avoid having a strong wind blowing directly against the wall where the vent outlets are located for most efficient operation. A spirit level has been provided with your Dometic refrigerator to assist you in leveling your Airstream. However, the job will be somewhat easier if you purchase two small inexpensive 10 to 12-in. spirit levels and lay them at 90° angles on the floor when you are leveling your Airstream.

The refrigeration system is air cooled. Therefore, it is of the utmost importance that air circulation around the cabinet is non-restricted.

Fig. 8A is an illustration of the working parts of your refrigerator which will be referred to in the following operating instructions.

LIGHTING THE BURNER

The gas tap must always be fully opened whenever the refrigerator is in use. A partially opened tap effects no saving and may interfere with the operation of the unit.

To light — Remove kick plate on bottom front of refrigerator by pulling outward

- 1. Turn gas valve lever "A" one-half turn clockwise to the open position. Push electric switch "F" down to "Off" position (except in 17' Caravel). Turn thermostat knob "B" to a setting of 4.
- 2. Press red button "C" and after about 15 seconds (to allow sufficient gas to enter), rapidly twist lighter rod "D" clockwise. This will create a spark which will ignite the gas.
- 3. After the burner has been lighted, keep button "C" depressed for an additional 15 seconds to allow the safety shut-off to become heated sufficiently to keep the valve open.
- 4. Release button "C" and check to make certain the burner remains lighted. If it should go out, repeat the above procedure and hold the button a few seconds longer.

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.

IMPORTANT—always make certain that electric switch "F" is off before operating the refrigerator on gas (all models except 17' Caravel).

FOR ELECTRIC OPERATION (all models except 17' Caravel).

- 1. Push Switch "F" up to the "ON" position and turn gas lever "A" counterclockwise to the "OFF" position.
- 2. Check to be sure the electrical cord is plugged into its 110-volt convenience outlet.
- 3. Turn the electric thermostat to a setting of 4. The refrigerator is now in operation.

THE THERMOSTAT

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

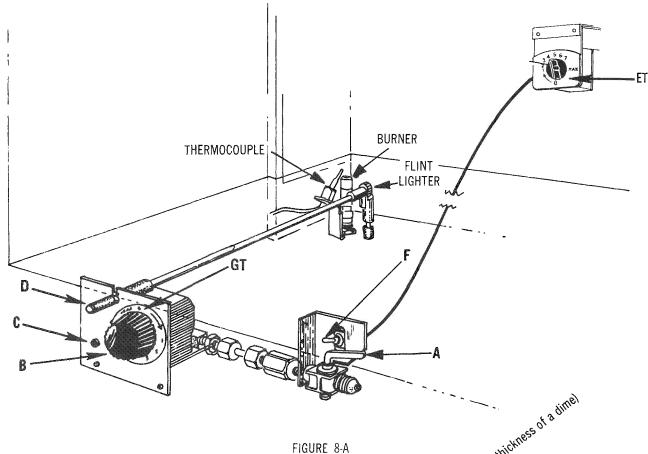
As soon as the required cold temperature inside the cabinet is reached, the thermostat cuts the burner main flame to the by-pass flame sufficient to keep the safety valve open during gas operation. During electric operation the thermostat cycles the flow of electrical current to maintain the set temperature.

DEFROSTING AND CLEANING

Excessive formation of ice on the evaporator reduces refrigeration efficiency. It is, therefore, necessary to defrost the Unit whenever ice has accumulated.

When defrosting is necessary, turn the thermostat (ET or GT) to warmest position and leave the door of the refrigerator open. See that the drip tray is in its position below the evaporator.

This is a good time to remove all food and clean the interior and all other plastic parts with warm water adding detergents. Never use abrasive or caustic



cleaning powders, polishes, cleaning paste or any gasoline, turpentine and the like.

Use a damp cloth for cleaning and finish with a soft dry cloth. After the defrosting has been completed, turn the control knob to its normal position.

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

TROUBLE SHOOTING — GAS OPERATION

Trouble — Flame is noisy with buzzing sound

CAUSES AND REMEDIES

a. Burner is getting too much air. Screw the lower air adjustment ring "A" on the burner down, to partially cover the air holes at the base, until the noise stops. (Figure 8B). Lock in position with the upper ring "B." Make certain that the flame remains blue. Blocking the air holes "C" completely will cause the flame to become yellow and to smoke.

Trouble — When lighting the gas flame it goes out as soon as the push button is released

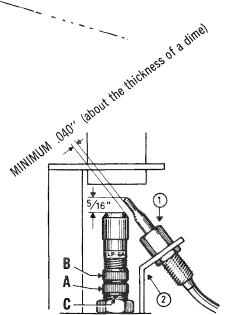


FIGURE 8-B

CAUSES AND REMEDIES

a. The thermocouple tip may not be in the flame. The thermocouple should be at an approximately 45° angle to the burner located per figure 8-B.

Trouble — Flame goes out

CAUSES AND REMEDIES

a. Flame blow-outs can be caused by excessive wind. If there has been no wind to cause the flame to repeatedly go out, go to a Dometic Service Depot to have the thermocouple and safety valve checked.

Trouble — Overfreezing

CAUSES AND REMEDIES

- a. The thermostat sensitive tubing is incorrectly located in the pocket inside the ice making compartment. Push the tubing back as far as it will go.
- b. 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:

- (1) Unscrew the large cap screw at the rear of the thermostat and remove the ball. Clean seat and ball and replace.
- (2) If procedure (1) does not correct the problem, remove the dial knob with the dial plate and turn the exposed set screw out (in counter clockwise direction) until the flame goes down to the by-pass. See figure 8-C.
- c. If the flame keeps going out when the dial is turned to (O) remove and clean the by-pass screw which is located inside the gas connection on the left side of the thermostat.

Trouble - Burner does not light

CAUSES AND REMEDIES

- a. Remove and clean burner barrel.
- b. Check gas supply.

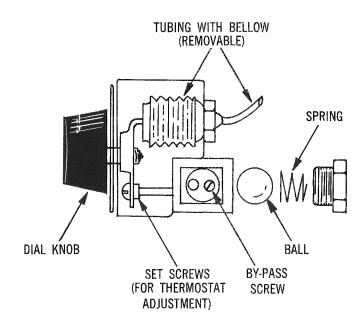


FIGURE 8-C

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CHAPTER 9

THE FURNACE

The furnace in your Airstream is a Hydro Flame Model RC-9 sealed combustion system which heats by both radiation and circulation. It has been approved by the AGA and the ICC, and is listed with the California Housing Authority. It is thermostatically controlled and has automatic safety controls; the fully automatic valve requires no electricity.

The Hydro Flame furnace uses outside air for combustion, and vents exhaust gases outside your trailer; but by virtue of the unique Hydro Vent cap, it is very stable under even severe wind conditions, and is almost impossible to blow out. Your furnace is unconditionally guaranteed by the manufacturer for one year against defects in workmanship and materials; the aluminized steel combustion chamber is guaranteed against burn-out for five years.

OPERATION

Follow the manufacturer's lighting instructions printed on the inside of the swing-out front door of the furnace. Be sure the gas valve area is kept clean; a fouled valve can result in difficult lighting and faulty operation. CAUTION: The flue gases from the furnace are vented outside your trailer through a vent in the outside wall. Do not place clothing or other flammable material on the vent assembly. Check occasionally to see that it is not clogged with leaves. etc. Never operate your furnace while moving.

TREATING MINOR MALFUNCTIONS

Should the pilot light go out, there are certain checks you can perform before calling for professional help.

First — make sure the pilot door closes tightly, leaving no air cracks. Tighten the thermocouple connection at the valve, being careful not to over-tighten, as this will mash the lead connection inside and make

replacement of the unit necessary.

If the pilot still continues to go out — loosen the gas line at the pilot. Remove the pilot orifice complete with brass fitting, and blow backward through the orifice to clear it. Before replacing, turn the gas valve pilot control knob to PILOT and depress to ascertain that the valve is functioning properly and allowing gas to come to the pilot. If no gas comes through, check the tank to be sure you have gas coming to the valve. Remove the pilot screw cover and turn the pilot adjusting screw out (counter-clockwise). If no gas comes through, the valve is faulty and must be replaced. If gas does come through, replace the cleaned orifice, making sure all gas fittings are tight. Follow lighting and relighting instructions.

To adjust the pilot — remove the cap over the pilot adjustment screw. With the pilot in operation, open the pilot cover door and observe the pilot flame while turning the adjusting screw located on the valve in (clockwise) until the pilot flame cuts off. Turn the adjusting screw out (counter-clockwise) one-half turn, and relight the pilot. The flame should be relatively small, although big enough to strike the thermocouple.

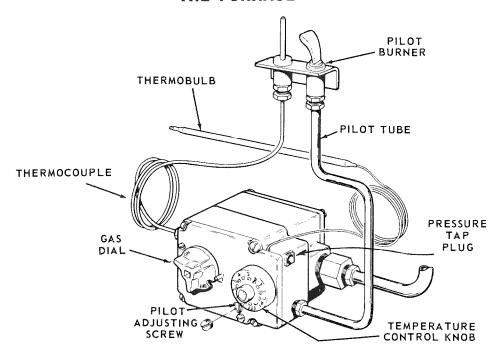
REMOVING MOISTURE

When humidity is high inside your trailer, turn on the trailer exhaust fan in the roof vent and open a window slightly to get cross ventilation. This will not affect the operation of the furnace.

THE THERMOSTAT

The thermostat automatically controls the temperature in your trailer. The thermometer and thermostat settings are reasonably accurate; however, it is best to adjust the thermostat to comfort level rather than to any prescribed temperature setting.

THE FURNACE



The furnace in your Airstream is a Duo-Therm Model 15T sealed combustion system furnace. It has been tested and listed by Underwriters' Laboratories and approved by the A.G.A., so you have double assurance of safe operation. The furnace is thermostatically controlled, and has automatic safety controls. It is designed to circulate just the amount of heat you want throughout your trailer by means of natural convection. Since it is a sealed system unit, fumes and gases can not pass from the furnace to the room air.

The following information will help you to obtain the best performance, with maximum economy, from your Airstream furnace.

LIGHTING THE FURNACE

(Refer to Figure 9-A)

- 1. Be sure all gas valves are turned on.
- 2. Rotate gas control dial to "PILOT." Press in on the dial and light the burner.
- 3. Adjust the thermostat dial to desired position (see below).
- 4. After pilot starts burning, rotate dial to "ON."
- 5. If pilot goes out, wait 5 minutes and repeat the lighting procedure. If the pilot goes out repeatedly, it may need adjusting; see paragraph on "Pilot Burner."
- 6. For complete shut down, push in and turn the gas control dial to "OFF."

Following are approximate temperatures (°F) to be

expected at various settings of the temperature control knob:

Dial Position	Approx. Temperature
1	58°
2	62°
3	66°
4	70°
5	74°
6	78°
7	82°
8	86°
9	90°

These settings are reasonably accurate, but you may find with experience that it is best to adjust to comfort level rather than to any prescribed temperature setting.

REMOVING MOISTURE

When humidity is high inside your trailer, turn on the trailer exhaust fan in the roof vent and open a window slightly to get a cross ventilation. This will not affect the operation of the furnace.

CAUTION

The flue gases from the furnace are vented outside your trailer through a vent in the outside wall immediately opposite the furnace. Do not place clothing or other flammable material on the vent assembly. Check occasionally to see that it is not clogged with leaves, etc. Never operate your furnace while the trailer is moving.

SAFETY PILOT VALVE

This valve provides 100% shut-off of gas if the pilot flame should go out. To light the furnace when the pilot flame is out, follow the procedure outlined under "Lighting the Furnace," step number 5.

MAIN GAS CONTROL VALVE

This valve allows gas to flow to the main burner when the thermostat "calls for heat" and stops the flow of gas when the thermostat is "satisfied." All working parts of this valve are permanently sealed and lubricated so that the valve operates silently at all times.

PILOT BURNER

The pilot burner provides a continuous flame for lighting the main burner and heating the thermocouple to provide the voltage needed to hold the safety pilot valve open. The pilot flame can be adjusted for larger or smaller flame. To adjust; remove the screw cap to reach the pilot adjusting screw. Turn the adjusting screw in (clockwise) to decrease the size of the flame, and counter-clockwise to increase it. The pilot flame should completely envelop the tip of the thermocouple (approximately %"). If the pilot flame is set too low, the thermocouple will close the gas valve. The 100% shut-off of the gas control is a safety feature of the furnace.

THE FURNACE

The furnace in your Airstream is a Suburban Model No. NT-20, a sealed combustion system furnace approved by the American Gas Association for safety and performance for installation in travel trailers.

This furnace utilizes a sealed combustion system with a patented dual blower. One blower circulates room air while the other furnishes outside air for combustion. The combustion air blower then forces the flue products to the outside for maximum safety and heating efficiency.

The unit incorporates an advanced design for circulating the warm air. All trailer models (except the 22-foot) have registers located at both ends of the trailer. These are return registers; their function is to draw cold air in, rather than blow warm air out. Heat comes only out of the furnace itself, and is circulated inside the trailer by the action of the blower. Do not expect to find warm air coming from the registers. The 22-foot model is so designed that these registers are not required. Ducts integral with the furnace itself supply the volume of air needed.

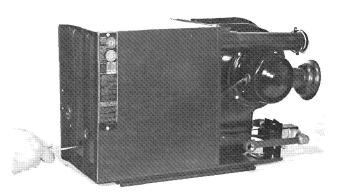


Fig. 9A

TO OPERATE

To light the heater, turn the manual valve to the "On" position and set the thermostat at its lowest setting. Remove the front grille, unscrew the lighter opening cover, and insert a burning match through the opening so the flame is near the pilot. Press the reset button (see Fig. 9A) and hold. On the initial lighting, the pilot may not light immediately due to air in the gas line. If such is the case, it may be necessary to hold the reset button in for a minute or more before the pilot lights. When the pilot is burning, continue to hold the reset button in for approximately 30 seconds. The pilot should then continue to burn when the reset button is released. Install the mica lighter opening cover and turn the thermostat up. The heater is now ready for

observation and adjustment of the main burner primary air.

The heater should be set in operation by advancing the thermostat, and should be allowed to run for at least 10 minutes, or until it reaches near-maximum operating temperature. If the flame burns yellow or jumps off the port, the primary air may need adjustment. The air shutter should be adjusted to the point where a slight trace of yellow remains in the tip of the flame. This is the proper adjustment. Final observation should be made with the cover in place, at which time the yellow tips should have disappeared. CAUTION: It should be remembered that the lighter opening cover and the primary air adjustment cover must be in place for proper operation of the furnace.

Since the heater was tested at the factory before shipment, it may be found that the primary air is already in proper adjustment. NEVERTHELESS, IT IS RECOMMENDED THAT THE ADJUSTMENT PROCEDURE OUTLINED BELOW BE CARRIED OUT. The burner adjustments may vary from one location to another due to difference in elevation as well as difference in characteristics of fuel gases.

To adjust primary air, remove the front of the unit and take out the screws that retain the rectangular cover plate (see Fig. 9A). Inside the opening created by removing the rectangular cover plate is a threaded rod with the visible end slotted. This rod controls the position of the main burner primary air shutter. With a screwdriver, turn the rod counterclockwise for less primary air or clockwise for more primary air.

In isolated cases it may be found that a difference in pressure between the air in the room and the air outside the trailer will cause a strong draft through the heater when the lighter opening cover is removed, resulting in a difficult lighting operation. When this condition exists the pressure may be equalized by opening a window or door as near as possible to the heater. The desired result may not be obtained unless the door or window is on the same wall as the heater. After the pilot has been lit and the lighter hole cover replaced, this difference in pressure will not affect the operation of the heater.

SEQUENCE OF NORMAL OPERATION

When the thermostat calls for heat, the blower motor is energized immediately. As the blower reaches approximately 75% of full speed, a microswitch will engage, opening the solenoid valve, and thus turning on the main burner. If within a period of approximately

two minutes after the main burner is lit, the thermostat is turned back, both the motor and solenoid valve are de-energized. However, if the heater is allowed to operate longer than the period of approximately two minutes, a slight snap can be heard from within the casing. This snap is caused by the fan switch as it changes its position. After this occurs, if the thermostat is turned back (or when the thermostat is satisfied), the solenoid valve will close, the flame on the main burner will go out, but the blower will continue to run. The purpose of this is to remove most of the remaining heat from the heater as well as purge the combustion gases from the heat exchanger. The blower will continue to run for a short time and will then shut off. It is perfectly normal for the blower to continue in operation for a time after the unit is theoretically "Off".

To shut the heater down, turn the thermostat to its lowest setting and turn the manual valve to its "Off" position.

REMOVING MOISTURE

When humidity is high inside your trailer, turn on the trailer exhaust fan in the roof vent and open a window slightly to get cross ventilation. This will not affect the operation of the furnace.

TROUBLESHOOTING

If the heater does not perform normally, the following discussion of some of the most probable causes and their corrections will be helpful.

If cool air is constantly discharged while the blower is in operation, it is obvious that the main burner is not on. This condition is caused by one or any combination of the following:

- 1. Pilot outage
- 2. Inoperative microswitch
- 3. Defective limit control
- 4. Defective fan switch
- 5. Loose connection in terminal block
- 6. Defective solenoid valve
- 7. Low supply voltage
- 8. Out of fuel

PILOT OUTAGE

Pilot outage is the most common cause of failure. If it is found that the pilot will not stay lit unless the reset button is depressed, a series of checks may be performed to quickly determine the cause.

The trouble is most likely in the thermocouple. First, check to see that the end of the thermocouple lead is

screwed firmly into the safety pilot valve and the joint is clean. If this is not the cause, the burner assembly should be removed. A visual inspection of the thermocouple may show that it is defective. If the copper sheath of the lead is broken or if the thermocouple tip shows signs of being bent or ruptured, it should be replaced with a new part. The new part must be of the same part number as the old one, or it may not fit or function properly.

Sometimes a safety pilot system will hold part of the time but will drop out during operation of the heater. This is commonly caused by either a weak pilot, a weak thermocouple, or a weak power unit in the safety valve. A simple but very effective check can be made to detect such a condition.

Light the pilot and allow it to burn for two or three minutes; then blow it out. With a watch with a second hand, measure the time required for the safety pilot valve to drop out. (This drop out is evidenced by a clicking sound from the safety pilot valve.) The time should not be less than 30 seconds. The test should be repeated to assure accurate results. If the drop out time is less than 30 seconds, it is recommended that a service representative be consulted.

In the case of low pilot flame, where the thermal element is not bathed in flame, the pilot may be too low. This is caused by either an improper adjustment, a partially stopped-up pilot orifice or pilot line, and possibly a partially blocked passage in the safety pilot valve. The pilot flame size may be adjusted by turning a small screw that appears in a brass fitting located along the left side of the heater, just inside the front grille and above the projection of the pilot.

A common cause of pilot failure, especially on LP gas, is in the failure or freeze-up of the supply pressure regulator. A pressure regulator is a throttling device. If only a pilot flame is being drawn through a regulator, it could and sometimes does allow higher pressures to build up. This may be for only a short period of time; for that reason it is often hard to detect. This condition is evidenced by a blowing hard blue flame. If such is suspected, it is recommended that the regulator be replaced with a new one. If the pilot should fail during operation, the cause could be that either the controls compartment back or the base of the blower assembly is/are not properly secured. This condition is evidenced by a floating main burner flame and sometimes by a strong undesirable odor from the heater.

DEFECTIVE MICROSWITCH

The microswitch operates in response to the current of air generated by the blower. Hence, if for any reason the air from the blower is not sufficient, the microswitch will not operate. This may be caused by dirt accumulation in the blower wheels or by damage or dislocation of the cabinet insulation so as to block passage of air. If the switch is activated by the air and fails to operate, it should be replaced.

DEFECTIVE LIMIT CONTROL

The purpose of the limit control is to turn off the gas to the main burner if for any reason the heater becomes excessively hot. Improper operation of the heater due to the limit control does not always indicate a defective control. If the circulating air is blocked or only partially so, the limit control will function and cause the main burner to cycle. Cycling on the limit is not always undesirable — if it happens only occasionally. This is a good indication of safe operation and will most likely happen on a cold day. If cycling happens too often or for an extended period, the circulating air system should be thoroughly cleaned.

If for any reason the limit control is found to be defective, there is no recommended method of repairing it. Because of its importance for safety reasons it should be replaced with a new one. CAUTION: NEVER SHUNT THE LIMIT CONTROL EVEN FOR TEMPORARY OPERATION.

DEFECTIVE FAN SWITCH

The purpose of the fan switch is to control the sequence of operation of the blower. In the cold position the contacts are closed. This allows current to be supplied to the motor through the thermostat. When the combustion chamber heats up, heating the element of the fan switch to the operating temperature, the switch changes position to complete a circuit through the motor from a direct source. Because of this, the blower will continue to run as long as the combustion chamber is hot, even though the thermostat is satisfied.

If blower performance is other than described, or if the snap-over in either direction causes even the slightest interruption in the normal hum of the motor, the control should be replaced.

LOOSE CONNECTION IN TERMINAL BLOCK

If the heater does not function as described under "Sequence of Normal Operation," the most likely source of trouble is in a loose electrical connection. All wiring is furnished with a pressure-type terminal. The ends which engage with the terminal block are of the friction type and must be pressed securely into the opening of the block. In most cases the trouble is quickly located and corrected.

DEFECTIVE SOLENOID VALVE

Any evidence of improper performance may be checked by applying voltage directly to the leads. This voltage should, of course, correspond with the furnace rating plate data.

POWER SUPPLY

The furnace operates from a 12 volt DC battery power supply. As the battery voltage drops, the blower circulation system will decrease until the microswitch in the blower finally "drops" out. This condition prevents the furnace from operating until the rated battery voltage is restored.

		,

THE WATER HEATER

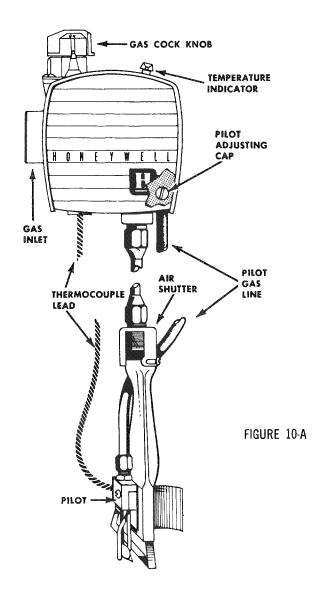
Your Airstream is equipped with a Bowen gas water heater which is built to give you long years of trouble-free performance. It has a 100% shut off safety valve which shuts off the gas supply in the event of pilot flame being extinguished and is equipped with either a Minneapolis-Honeywell or a General Controls regulator. It is lighted and serviced from outside through an access panel at the left rear of the trailer (right rear of the 17' Caravel).

Procedures for lighting or re-lighting are as follows: Operating Instructions for Units Equipped with MINNEAPOLIS-HONEYWELL CONTROLS regulator (Figure 10-A).

Procedure for lighting or re-lighting:

- 1. Be sure the heater is filled with water and that all air has been vented from gas line.
- 2. Turn gas cock knob to "Off" position and temperature indicator to lowest temperature position.
- 3. Wait sufficient length of time to allow gas which may have accumulated in burner compartment to escape. (Approximately 5 minutes).
- 4. Turn gas cock knob to pilot.
- 5. Depress the knob, light the pilot burner, and hold the knob down for about 1 minute.
- 6. Turn the gas cock knob to ON.
- 7. Set the lever indicator for the desired water temperature.
- 8. To shut down the heater, turn gas cock knob to OFF position.

NOTE: For instructions on how to adjust pilot flame see page 10-3.



Operating Instructions for Units Equipped with GEN-ERAL CONTROLS regulator (Figure 10-B).

Procedure for Lighting or Relighting:

- 1. Be sure that heater is filled with water and that all air has been vented from gas line.
- 2. Turn top dial to "Off" position, and temperature dial to lowest temperature position.
- 3. Wait sufficient length of time to allow gas which may have accumulated in burner compartment, to escape (Approx. 5 min.).
- 4. Turn top dial to "Light Pilot" and continue turning until dial "Stops." Hold in this position while lighting.

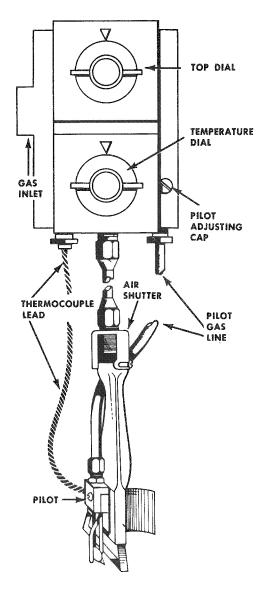


FIGURE 10-B

- 5. Allow pilot to burn approximately one minute before releasing dial from stop. If pilot does not remain ignited, repeat above operations allowing longer period before releasing from DIAL STOP.
- 6. Turn top dial to "ON" position and turn temperature dial to desired position. The main burner will ignite.
- 7. To shut down heater, turn top dial to "OFF."

NOTE: For instructions on how to adjust pilot flame, see following:

PILOT FLAME ADJUSTMENT

If the pilot flame does not have a small orange tip the pilot is not getting enough gas. (See Figure 10-C).

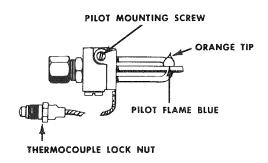


FIGURE 10-C

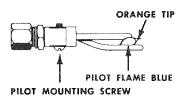


FIGURE 10-D

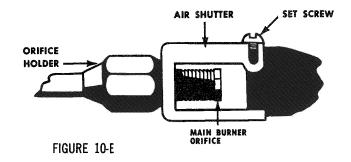
The flame should be about ¼ of an inch in vertical height when the water in the tank is cold and the burner is off; and a flame ¼ to ¾ of an inch in horizontal length when the tank is warm. (See Figure 10-D). A large orange flame indicates excessive gas supply, which will result in short pilot life and 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" will reveal the pilot adjustment screw. Turning this screw clock-wise reduces the flow of gas to the pilot (blue flame) and counter clock-wise the gas supply is increased (orange flame). Always replace the "pilot adjustment cap" to prevent gas leakage.

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 an excess of air. The air shutter rotates around the main burner orifice holder and is held in place by a small shutter adjustment screw. Loosen the screw for adjustment. A good method of adjusting the air shutter is to rotate the shutter closed far enough for yellow tipping to occur on the main burner (not pilot) and then slowly open the air shutter until all signs of yellow tipping are gone. When proper adjustment has been obtained, tighten screw holding air shutter (See figure 10-E).

GAS LINE VENTING

Most failures to light are caused by the absence of gas



and presence of air at the pilot port. This may happen when you have run out of gas. Upon restoration of the gas supply the line is full of air. It is recommended that appliances such as the range and furnace be lighted first. This assures a supply of gas in the main gas line. Then follow the normal procedures as outlined previously for lighting.

8-1-65

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2210 North "O" Street
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LO 5-9775

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Box 758
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5401 West Colfax Avenue
Phone 237-9591

FORT COLLINS
BORDEN'S TRAILER SUPPLY
1008 N. College Avenue
Phone: 482-8118

GRAND JUNCTION
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TRAILER HOUSE RENTALS AND SALES
2485 U. S. Hwy. 6
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NOrmandy 7-3236

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PUEBLO MOBILE HOME SERVICE
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Phone LI 4-1823

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CONNECTICUT

CONNECTICUT

EAST HARTFORD

CALL'S MOBILE HOME SERVICE

877 E. Burnside
Phone: Butler 9-3719

EAST WINDSOR

SKYLINE HOMES OF NEW ENGLAND*

S1a. No. 67-Rt. 5

JA 8-6054 or NA 3-0533

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MIAMI
APPLIANCE SERVICE & REPAIR CO.
2325 N.W. 27th Ave.
Phone NE 5-396
JERRY'S TRAVEL TRAILER SALES & SERVICE
2710 N. W. 36th St.
Phone 634-7648 JERRY'S IRAVEL IRAILER SALES & SERVICE
2710 N. W. 36th St.
Phone 634-7648

CALA

E. M. DE LONG
Route #1 - Box 310
Phone: 629-4377

ORLANDO
PAUL E. DRYANDER*
5475 S. Orange Blossom Trail
GArden 3-5648

PALMETTO
CARL E. BOWEN
3007 49th St., East:
Phone 722-1982

PENSACOLA
ANDERSON TRAILER SALES, INC.
3825 Navy Boulevard
Phone: 455-0331 and 455-0332 — Area Code 305
KURT'S MOBILE HOME SUPPLY
927 No. Pace Blvd.
Phone HE 3-6326

ST. PETERSBURG
DARWIN GAS APPLIANCE SERVICE
2928 11th Ave. N.
Phone 829-2911
TYRONE PROPANE SERVICE*
4104 Park St. No.

1AMPA
PAUL'S MOBILE HOME SERVICE
13733 Nebraska Avenue
Phone 935-1904

VENICE
THOMAS TRAILER SERVICE
923 Nokomis Avenue
Phone: 488-4065 — Area Code 813 Phone 634-7648

GEORGIA

ATHENS
SERVICE CO.
Box 883
Phone: 543-4829 — Area Code 404
NORCROSS
MOBILE HOME SERVICE, INC.
Route #1 — Highway 23
Phone: 766-7071
WARNER ROBINS
FLAMINGO MOBILE HOME SERVICE CENTER
ROUE #1, Box 48

Route #1, Box 48 Phone WA 3-1291

IDAHO

BOISE
ACE TRAILER REPAIR
2942 Chinden BIVd.
Phone 4-5171
WILSON HEATING SERVICE
2021 College BIVd.
Phone 2-3917
POCATELLO
HANDY SERVICE
4929 Yellowstone Avenue
Phone: 233-4929 — Area Code 208

ILLINOIS

BLEINOIS

BLACKSTONE
ECONOMY MOBILE HOME SERVICE
R.F.D. #1
Phone STreater 3-7513

BLUE ISLAND
ILLINOIS MOBILE HOME SUPPLY CO.
14225 So. Western Avenue
Phone 388-0008

BOURBONNAIS
BUREOMY STRAILER COURT & SALES
ROUTE NO. 54
Phone WE 2-6826 — WE 3-2465

CASEYVILLE
MOBILE HOME SERVICE & SUPPLY CO.
Long and Ofallon Street
Phone 344-5000

CENTRALIA
DUKE TRANSPORTATION COMPANY
710 Wabash Avenue
Phone: 532-3688 — Areo Code 618

CHARLESTON
HARPSTER'S COLES COUNTY GAS CO., INC.
617 N. State Street
Phone DI 5-3993

DANVILLE
DIXIE MOBILE HOMES, INC.*
2601 No. Vermillion St.
Hickory 2-0733

ILLINOIS (Cont'd) DECATUR COMPLETE MOBILE HOME SERVICE* 125 W. Pershing Rd. Phone 877-1122 Phone 877-1122 PS PLAINES AMERICAN MOBILE HOME SERVICE, INC. 120 North River Road VAnderbilt 7-5684 BENNETT MOBILE HOME SERVICE 2993 Curtis C-16 Phone VA 4-6778 EAST ALTON FAIRFAX TRAILER COURT 210 Cooper Street Phone 254-6328 or 259-6848 GRANITE CITY Phone TR 7-4966 Phone TR 7-4966 LINCOLN "66" MOBILE HOME SALES & SERVICE ROUTE U.S. 66 & 21 MARION EDWARDS TRAILER SALES, INC. ROUTE 37 North P. O. Box 521 MELROSE PARK SCHRADER MOBILE HOME SERVICE 1950 River Road Phone Gladstone 6-6797 OINEY MOBILE HOME SERVICE CENTER R.3 W. N. Avenue R.3 W. N. Avenue R.3 W. N. Avenue ROSS MOBILE HOME SERVICE QUINCY ROSS MOBILE HOME SERVICE R. R. #7 Phone: 217 – 223-2001 SPRINGFIELD CAMPBELL TRAILER SALES R. #5 502 1492 Ann Code 2 R.R. #5 Phone: 522-1482 — Area Code 217 URBANA VERT'S MOBILE HOME REPAIR RFD #1, Route 45 Phone 643-2413 WAUKEGAN PARK CITY SERVICE Route 4, Box 2201, Park City Phone ON 2-2596 ZION HOEKSEMA LP GAS SERVICE 3501 Lewis Ave. Phone 623-7600 INDIANA CRAWFORDSVILLE CHILDRESS MOBILE HOMES, INC. 1301 So. Mill Street Phone EM 2-6091 ELKHART

eLKHART
FLORENCE DISTRIBUTING CO., INC.
2900 Mishawacka Rd.
Phone JA 3-4510
MORIFE 2900 Mishawacka Rd.
Phone JA 3-4510

ELWOOD

MOBILE HOME SALES & SERVICE, INC.
R. R. 2 - Hi-Way 37 South - Box 324
Phone: FE 2-5061

FRANKFORT

WYATT & SON MOBILE HOME SERVICE
202 W. Kyger Street
Phone 654-6838 (Home)
Phone WEstmore 3-7870

INDIANAPOLIS

BURROUGHS MOBILE HOME SERVICE
3744 W. Michigan
Phone MElrose 1-2480
EDDIE'S HEATING SERVICE
7225 E. 14th Street
Phone FL 9-4290
EXPERT MOBILE HOME SERVICE & REPAIRS
3608 W. Washington Street
Phone CHaplel 1-7844 — Area Code 317

LAFAYETTE
ROY CHURCH*
904 State Street
Phone HA 5-6712

MARION

MOBILE HOME REPAIR SERVICE*
3902 So. Meridian St.
Phone OF 4-3534 & OR 4-4292

PORTAGE
MOBILE HOME SERVICE
2646 Dombey Rd.
Phone 962-1675

RICHMOND
CREECH BROTHERS TRAILER SERVICE
321 S.W. 4th Street
Phone 3-7031

IOWA

BETTENDORF
DIAMOND MOBILE HOME SUPPLY
Rt. 1, Hwy. 67 East
Battendorf; Iowa
Phone 5-3241

CEDAR RAPIDS
TRAVEL TRAILER SALES
Highway 149 near U. S. 30
Phone EMpire 5-2503

DES MOINES
AL'S TRAILER REPAIR
5506 E. 14th
Phone AM 2-9437
BAUER MOBILE HOME SERVICE
1411 E. Madison St.
Phone: 266-8179

DES MOINES (Conr'd)
HECTOR'S TRAILER SALES
3819 East 14th Street
CLAUD PETT*
3622 Fifth Avenue
CHerry 3-6771
MARION
J-B TRAILER SERVICE
3460 3rd Ave., Box 2
Hone: DR 7-2590 — Area Code 319
SIOUX CENTER
MOBILE SERVICE CENTER
154 Seventh Street, N.E.
Phone 722-1675
SIOUX CITY
ALLIED SERVICES
2021 South Cleveland
Phone: 6-4241 KANSAS HUTCHINSON AV'S MOBILE HOME SERVICE 1515 W. Fourth St. Phone: MO 5-4293

Phone: MO 5-4293

KANSAS CITY

AAA HOME TRAILER COMPANY
4848 State Avenue
Phone AT 9-4848 Phone A1 9-4848

NEWTON
SHARP MOBILE HOMES COMPANY*
210 West Fourth Street
A1 3-4400

OTTAWA
MOBILE HOME SERVICE
1526 South Hickory
Phone CH 2-4909

TOPEKA
MEMORY LANE SERVICE CENTER
601 W. 57th St.
Phone UN 2-1953

WICHITA
TODD MOBILE HOME SUPPLY*
4215 South Broadway
JA 4-6371

KENTUCKY

KENTUCKY

KENTUCKY

ASHLAND

NELSONS MOBILE HOME SERVICE*
4839 Boyd St.
Phone EAst 5-2889

LEXINGTON

MR. ROBERT F. BROWN
1693 Margate Drive

LOUISVILLE
CENTRAL MOBILE HOME SERVICE*
4905 Dixie Highway
EMerson 8-7400

VALLEY STATION
SANDERS MOBILE HOME REPAIRS*
Rt. 3 — Box 545
WE 7-8812
TEX LAYNE TRAILER SALES, INC.
10711 Dixie Highway — Box 299
Phone: WE 7-2640

LOUISIANA

LOUISIANA

BATON ROUGE

T & T ENTERPRISES, INC.
R.R. #6, Box 299
Phone: 937-1912 — Area Code 504

HAHNVILLE

R & G MOBILE HOME SPECIALIST
BOX #177

KENNER

PEARSON'S TRAILER PARTS & REPAIR CO.
1002 Duncan Street
Phone KEnner 21-71-2851

LAKE CHARLES

MOBILE HOME SERVICE & SUPPLY CO.
2210 Highway 171 North
HE 6-0873

LEESVILLE
CECIL'S MOBILE HOME REPAIRS CECIL'S MOBILE HOME REPAIRS P. O. Box 52 Phone 239-6623 — Area Code 318

MAINE

AUBURN
MAC'S OIL BURNER SALES & SERVICE
McFalls Road
R.F.D. 4, Box 50
Phone 782-0971 — Area Code 207
ELIOT. MOBILE HOME SERVICE Box 62-D, Rt. 236 Phone: 439-2270 — Area Code 207

MARYLAND

BALTIMORE
DAY & NIGHT OIL BURNER SERVICE COMPANY
301 Delaware Avenue
Phone 799-7997 — Area Code 301

SALISBURY
RUARKS HOUSE TRAILER & CABINET SHOP
2333 Hudson Dr.
Phone PI 2-6468
WALDORF
MIDWAY MOBILEHOME CENTER
U. S. 301 North
Box 553
Phones 843-6110 & 645-5832
Area Code 301

BALTIMORE

MASSACHUSETTS

AYER
UNITED SERVICE COMPANY
49-65 Fitchburg Road
lelephone: WAlnut 6-9961
LEOMINSTER
MURRAY TRAILER
556 Central Ave.
KE 7-7414

NORTH ADAMS
SSS CORPORATION
MOBILE HOME PARK & SALES
1095 Mohawk Trail
P.O. Box 764
Phone MOhawk 3-8417
SHREWSBURY
MOBILE HOME SERVICE & REPAIR
25 Saybrook Road
Phone SW 9-9512
CDDINGFIELD SPRINGFIELD

MOBILE HOME SUPPLY & SERVICE
1189 Boston Road
Phone: STate 3-6115 MICHIGAN

ALLEN PARK

ARSHALL MOBILE HOME SERVICE*
6632 Larme
DUNKIR 2-3323

BENTON HARBOR
GERLACH'S TRAILER SALES:
2180 M-139
Phone: Walnut 5-8222

DAVISON

MOBILE HOME SERVICE*
G-6149 Lapeer Road
Phone: P! 2-0016

FAIR HAVEN
LEO'S MOBILE HOME SERVICE
7341 Bealane Road
Phone: Raymond 5-0595

FARMINGTON
IRAILER MAINTENANCE CO.*
20832 Tuck Rd.
GR 6-3277

GARDEN CITY

GARDEN CITY

A DE MOBILE HOME SERVICE* **MICHIGAN** Phone: Kaymond 3-0499
FARMINTSTON

IRAILER MAINTENANCE CO.*
20832 Tuck Rd.
GR 6-3277
GARDEN CITY
A & D MOBILE HOME SERVICE*
31176 Cooley Drive
Phone: 427-7191
HAZEL PARK
A.A.A. MOBILE HOME SERVICE
812 E. 9 Mile Road
Phone: 543-5396
HIGHLAND
McBRIDE PLUMBING & HEATING CO.
253 Center Street
Phone 685-1872
KALAMAZOO
JOHN WIESSNER HEATING*
822 Cobb Ave.
Phone Fireside 3-1087
LANSING
CARLTONS TRAILER REPAIR*
14500 No. U. S. 27
Phone IVanhoe 9-6839*
MOBILE HOME RANCH
803 Nadeau Road
Phone: CHerry 2-0827
MI. MORRIS*
WOLVERINE TRAILER SUPPLY
G-6259 North Saginaw Road
SU 9-7938
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COLONIAL MOBILE HOME SERVICE, INC.
25 Opdyke Road
Phone: 335-7748
TOM SMITH*
2869 Pontiac Rd.
FEderal 2-5998
PORT HURON
TRAILER RENTAL SERVICE*
2701 Howard Street
Phone PL 3-2991
SAULT STE. MARIE
SOO TRAILER SALES
BOX 310 — U. S. #2
Phone: 282-8188
SAGINAW
MICHIGAN TRAILER LODGE INC.*
4232 E. Genesee Ave.
Phone PL 3-2991
SAULT STE. MARIE
SOO TRAILER SALES
BOX 310 — U. S. #2
Phone: 616 — 637-1917
TAYLOR
JIM'S MOBILE HOME SERVICE
20027 - 1st
Phone CR 8-1845
TRAVERSE CITY
PINE GROVE TRAILER SALES, INC.
420 Munson Avenue
Phone: Windsor 7-6561
UTICA
FLAMEGAS UTICA CORP.
6654 Cotter St.
Phone 731-4400
WARREN
YOUR GASS
HEATING CO.
21908 Dequindre
Phone SLOCUM 4-0835
MININESOTA RREN
YOUR GAS & HEATING CO.
21908 Dequindre
Phone SLocum 4-0835 **MINNESOTA** AUSTIN

BERG'S CITIES SERV. & GARAGE
1810 East Oakland
Phone: 437-3124

DULUTH

HYNNEKS MOBILE HOME REPAIR
4350 La Vaque Rd.
Phone RA 7-4044

MINNEAPOLIS
STAN'S COMPLETE MOBILE HOME SERVICE
2501 Lowry N.E.
Phone: 781-8688

MOGRHEAD
PIERCE TRAILER SALES*
221 Main

^{*}These organizations have factory trained personnel.

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MISSOURI

COLUMBIA
POWELL TRAILER SALES
Hwys. 40 & 63 South
Phone Glbson 3-4398

Hwys. 40 & 63 South
Phone Glbson 3-4398

IBERIA
PONDERS SHOP
P. O. Box 264
Phone SW 3-3141

KIRKWOOD

BYERLY TRAILER SALES & MFG. CO.
11601 Manchester Road
Phone YO 5-1221

KNOB NOSTER
KENDON SALES
P.O. Box 331
East Highway 50
Phone 816 LO 3-2500

SEDALIA

CHAPLIN SERVICE & SUPPLY
West Main at Highway 50
Rt. #3 - Box 25
Phone TA 7-0234

51 ANN
SEL-RAE AGENCY
3025 N. Lindbergh
Phone Pershing 9-1806

51. CHARLES
JOE'S MOBILE HOME SERVICE
83 Rosewood Drive
Phone: RAndolph 4-6807

ST. JOSEPH
MCLEAN MOBILE HOME HEATING ANE
AIR CONDITIONING SERVICE

ST. JOSEPH

McLEAN MOBILE HOME HEATING AND
AIR CONDITIONING SERVICE
106 Country Side Lane
Area Code 816
Telephone: ADams 3-3837

WANESVILLE
CENTRAL MOBILE HOME REPAIR
Hwy. 66—Spur - RR 2
Phone: PR 4-2302

WEBB CITY
HAROLD FABIAN MOBILE HOMES SERVICE
415 North Main Street
Phone OR 3-2479

MONTANA

BILLINGS
BILL'S MOBILE HOME SERVICE & SUPPLIES
101½ Moore Lane
Phone: Office 252-2238 — Res. 252-0229
GLASGOW
CHAR-EL TRAILER SALES*
Phone AC 8-9223

NEBRASKA

NEBRASKA

ALBION
MILLER MOBILE HOME SALES 317 Main Street

ALLIANCE TRAILER SALES*
815 Flack Avenue
Phone 584

COLUMBUS
VAN DYKE SERVICE CENTER
Evergreen Trailer Park
Phone 564-5048 (Columbus)

GRAND ISLAND
TRAILER SUPPLIES & SERVICE
2600 S. Locust
Phone DU 2-4080
KIMBALL
KIMBALL
PLUMBING & HEATING

KIMBALL PLUMBING & HEATING CO.*

KIMBALL PLOMBING & F 604 E. 3rd St. Phone BEverly 5-3522 LINCOLN ARROW TRAILER SALES* 125 "O" St. Phone HEmlock 2-6055

PROPE HEMIOCK 2-6055
OMAHA
FT. CROOK MOBILE HOMES
4014 So. 13th St.
Phone 731-3833
A. C. NELSEN CO.
2112 Harvey St.
Phone 344-4000
SCOTTSBLUFF
A. C. NELSEN COMPANY
BOX 1042
SO. SIOUX CITY
NIELYS MOBILE HOME SERVICE
1203 1st Avenue
Phone 4-4323
NEVADA

NEVADA

LAS VEGAS
LOMKERS TRAILER SERVICE
451 North 11th St.
Phone DU 2-8872

LAS VEGAS (Cont'd) PROPANE SALES & SERVICE CO 2551 North Main

NEW HAMPSHIRE

LACONIA
LARSON'S MOBILE HOME SERVICE
R.F.D. #1
Phone LA 4-5993

NEW JERSEY

AVENEL
MURRAY'S MOBILE HOME SERVICE
3 K. Street
Phone ME 4-4140

BELLMAWR
J. P. McINERNEY MOBILE HOME
REPAIR SERVICE
174 Cardinal Drive
Phone 931-0783 (area code 609)

FRANKLINVILLE
TRAVEL TRAILER CENTER
Delsea Drive
Phone TUlip 1-3362

HADDONFIELD
WARREN'S MOBILE HOME SERVICE*
8 Rose Lane, Cooper Park Village
Phone HAZEI 9-9118

KEYPORT
WILBUR HANTZ

KEYPORT
WILBUR HANTZ
c/o Sontana Trailer Park
M R 36 – Box 44
Phone 787-9511
LINDEN
SMITH MOBILE HOMES*
U.S. Rt. 1, Box 594
WAbash 5-2442
LYNDHURST
OREFUGITZER \$ SON A

LYNDHURST
OBERHOLIZER & SON MOBILE HOME SERV.
CENTER
265 Orient Way
Phone: WE 3-0474

THOROFARE
MANN'S TRAILER SERVICE
ROUTE #130
Phone: Tilden 5-1939

NEW MEXICO

ALAMAGORDO
DUDLEY MOBILE HOMES
P. O. Box 429
Phone HE 7-7430
ALBUQUERQUE
NEW MEXICO TRAILER REPAIR
10021 Acoma Road S.E.
Phone 299-1986

NEW YORK

ALBANY
CERTIFIED MOBILE HOME SERVICE
20 Spruce St.
Phone HE 8-8866
ANGOLA
B-Y SUPPLIES, INC.
Erie Road — Route 5
Phone 549-3737
BATAVIA
HARLEY'S PROPANE SERVICE*
BOX 414
BINGHAMTON
DICK'S MOBILE HOME SERVICE HARLEY'S PROPANE SERVICE*
BOX 414

BINGHAMTON
DICK'S MOBILE HOME SERVICE
9 Cary Street
Area Code 607
Telephone: 723-6922

CANTON
MURPHY'S APPLIANCE SALES
26 Riverside Drive

CONGERS
ECONOMY GAS COMPANY, INC.
Route 9W
Congers 8-6690

CIELENVILLE
STATE TRAILER SALES*
Route 209, P. O. Box 247
Phone: Ellenville 1848

FORT MONTGOMERY
MOBILE HOME SERVICE
Route 9W — Box 437
Phone HI 6-3338

JOHNSON CITY
KEN'S TRAILER REPAIR SERVICE
215 Trailer Village
Phone: RA 9-3766 — Area Code 607

LEICESTER
CURTIS A. SLIKER, INC.*
Main Street
Phone Dudley 2-2301

POUGHKEEPSIE
KEN'S MOBILE HOME SERVICE
Noxon Road - R.D. #2
Phone 914 GL 2-5095

ROCHESTER
GORDONS TRAILER SERVICE
1470 Clinton Ave. No.
Phone FI 2-8115

SYRACUSE
SUTPHIN SUPPLY CORP.
914 North State Street
Phone GR 2-7514

NORTH CAROLINA

NORTH CAROLINA

NORTH CAROLINA

FAYETTEVILLE

NORTH CAROLINA MOBILE HOMES
4417 Bragg Blvd.
Phone HU 4-7151

LELAND

THOMAS REPAIR SERVICE
P.O. Box 115
Phone RO 3-5929

MIDWAY PARK

EAST WINDS MOBILE HOME SUPPLIES
Highway 24 East

Highway 24 East Phone 347-1938

NORTH DAKOTA

BISMARCK
TOM'S MOBILE HOME REPAIR AND SERVICE CENTER
309 South 3rd Street
Fhone: 223-0656 — Area Code 701
FARGO FARGO
HOME GAS COMPANY*
Post Office Box 966
3101 Main Avenue
ADams 5-4960
MINOT
NORTH AMERICAN SALES, INC.
Hiway 83 South
WEST FARGO
TRI-STATE TLR. REPAIR & ACCES.*
Post Office Box 332
ADams 2-2945

OHIO

AMHERST
B BAR B MOBILE HOME PARK
Box 128 Quarry Road
BELPRE Box 128 Quarry Road
BELPRE
WOOD MOBILE HOMES
Rt. 1
HAzel 3-7323
CINCINNATI
DILLINGHAM'S MOBILE HOME SERVICE
330 Reading Road
Phone 821-8844
FRANK'S MOB. HOME SUPPLIES
8260 Rovert Ave. - Zone 39
+hone: 521-0273 - Area Code 513
LARRY WELSH TRAILER COMPANY*
8054 Reading Road
VA 1-6033
CLEVELAND
LAKE ENTERPRISES
16518 Detroit Avenue
Phone: LA 1-6505
CLYDE
CHPCK MOBILE HOME SUPPLIES

CLYDE
SHERCK MOBILE HOME SUPPLIES
Division — Sherck Mobile Homes
136 E. McPherson Hwy.
Phone 6931
COLUMBUS
AUTHORIZED MOBILE HOME SERVICE
2928 Westerville Rd.
Phone 267-8339
WILSON MOBILE HOME SERVICE
576 Creenlawn Ave

Phone 26/-8339
WILSON MOBILE HOME SERVICE
576 Greenlawn Ave.
Phone HI 3-5726
DAYTON
JIM'S MOBILE HOME SUPPLY CO.
3895 No. Dixie Highway
Phone 278-5887
McMAHAN'S BOTTLED GAS COMPANY
3324 Valley Pike
Phone BEverly 3-0831
ELYRIA
TAYLOR'S MOBILE HOME SERVICE
219 University Avenue
Phone FAirfax 3-7301
GREENWICH
WOODLYN ACRES MOBILE HOME
PARK & SALES
R.D. #2 U. S. 224
NEW VIENNA
DRAKE TRAILER SALES*
YUKON 7-5223
NILES
RAIPHS MOBILE HOMES SALES & SERVICE
STORMAN SERVICE
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RAIPHS MOBILE HOMES SALES & SERVICE
STORMAN SERVICENNA
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DRAKE TRAILER SALES*
YUKON 7-5223
NILES
RALPHS MOBILE HOMES SALES & SERV
521 Youngstown Rd., Rt. 422
Phone OL 2-1333
NORTH CANTON
ED SWIGERT MOBILE HOME SERVICE*
Lot 40, 1245 N. Main
Phone HY 9-6519
RAVENNA
VICKERS MOBILE HOMES
3002 Kent-Ravenna Road
Phone AX 6-4677
SANDUSKY
BEST MOBILE HOME SUPPLY
615 Horseshoe at West Monroe
Phone MAIn 5-1656
OHIO HOMES
116 W. Perkins
Phone MAIn 6-5768
SPRINGFIELD
TECUMSEH MOBILE HOME COURT & SALES
4802 W. Notional Road
Phone 963-6222 -- Area Code 513
STONY RIDGE
STONY RIDGE MOBILE HOMES
ROUTE #20
Phone CHERTY 4-7684
SYLVANIA
ANDERSON BOTTLED GAS COMPANY*
5585 Monroe St.
Phone TI 2-5548
TOLEDO
AMMERMAN MOBILE HOME SERVICE
1515 Alexis

TOLEDO
AMMERMAN MOBILE HOME SERVICE
1515 Alexis
Phone: 474-3069 — Area Code 419
WICKLIFEE
HAYES TRAILER SERVICE
30335 Euclid Ave.
Phone WH 3-6431
ZANESVILLE
MOBILE HOME PANCH INC MOBILE HOME RANCH INC. Rt. 1, Olde Falls Road Area Code 614 Phone: 453-3794

OKLAHOMA LAWTON
PIERCE MOBILE HOME SALES
2410 Cache Road
Phone ELgin 5-2734

OKLAHOMA (Cont'd)

OKLAHOMA (Cont'd)
OKLAHOMA CITY
CAPITOL MOBILE HOME SERVICES
5926 N.W. 39th
Phone: JA 4-3188.
JACK'S MOBILE HOME SERVICE
1213 North Indiana
Phone JAckson 8-1638
PEMBERTON BROS. MOB. HOME SALES
Post Office Box 4571
Capital Hill Station
QUALITY MOBILE HOMES
7207 N.W. 39th Expressway
Phone WH 9-2409
TUSA

Phone WIL 72-3-1 TUISA OKLAHOMA MOB. HOME SERV. & SUP. 3119 E. Admiral Place Phone WE 9-0453

PENNSYLVANIA

ALTOONA
HOUCKS MOBILE HOMES*
1649 E. Pleasant Valley Blvd.
WI 2-0209
CAMP HILL

CAMP HILL MOBILE HOME SERVICE 107 St. John's Church Road Phone: 761-1891

107 St. John's Church Road Phone: 761-1897
CHAMBERSBURG
SPIDEL'S OIL BURNER SERVICE 389 E. King St. Phone COlony 3-1003
CLEARFIELD
F. W. WISE GAS CO., INC. 209 Bridge Street Phone: 765-7801
Area Code: 814
FAIRLESS HILLS
BRIEN'S TRAILER SALES
168 Lincoln Highway Telephone: WINdsor 6-9530
HARRISBURG
LEIGHNER SERVICE CENTER 3895 No. Front Phone 232-0572
HOMER CITY

Phone 232-0572

HOMER CITY
STAKE'S MOBILE HOME & AUTO SALES
Old Route 119, North
R.D. #2

Phone: GR 9-2939 — Area Code 412

MARTINSBURG
HOOVER MOBILE HOMES
600 E. Allegheny, Route 164
Phone 189

Phone 189
MIDDLETOWN
D & R MOBILE HOME SERVICE
Vine St. - Mounted Rt.
Phone WH 4-6008 and WH 4-5797
NORRISTOWN
MOBILE HOME PARTS SERVICE CO.
14 West Mt. Kirk Avenue
BRoadway 9-7225
PENFIELD

BROADWAY 9-7225
PENFIELD
MOBILE HOME SERVICE
RFD #1
Phone 637-5839
PULASK!
FRANK'S TRAILER MART, INC.

R. D. 1 Phone YO 4-2511

Phone YO 4-2511
SAXONBURG
INTERNATIONAL OIL BURNER SERVICE
Flanders 2-1918
WILLIAMSPORT
TRAILER OWNERS SERVICE
616 Wilson Street
Phone 322-2243 — Area Code 717

RHODE ISLAND

NORTH KINGSTON
VALLEY TRAILER REPAIR SERVICE
115 Sunnybrook Drive
Phone: Turner 4-5423
PAWTUCKET
H. McCAMBRIDGE
64 Kenyon Avenue
Phone: 722-3588

SOUTH CAROLINA

NO. AUGUSTA
SCHULTZ-HILL MOBILE HOMES
403 Jefferson Davis Hiway
Telephone: 822-1891 — Area Code 803
NORTH CHARLESTON
JACK WHEELER
5709 Judy Ave.
Phone SH 7-8934
WEST COLUMBIA
WREN MOBILE HOMES
2119 Augusta Road
Phone 803 794-4112

SOUTH DAKOTA

BRYANT FOE CURRIER & SONS PLUMBING & HEATING FOE CURRIER & SONS PLUMBING & HEATI
LAKE PRESTON FURNITURE & APPLIANCE CO.
Phone 847-4202
MITCHELL
MOBILE HOME SALES & SERVICE
719 North Main
Phone: 99-65477
MOBRIDGE
MR. WILLIAM HALEY
P. O. Box 47
Phone 845-2760 — Area Code 605
PIERRE
ANDY'S GAS COMPANY*
213 Dakota Avenue
5030 and 2375

PIERRE (Cont'd)
CAPITAL CITY GAS COMPANY*
Post Office Box 182
115 West Sioux Street
CAPITAL CITY TRAILER SALES
801 No. Euclid
Phone 224-2689
RAPID CITY
ISEMAN CORPORATION
Box 1766, West Main Street
RAPID CITY TRAILER SALES*
3000 West Main
Fillmore 2-7380
IEDS TRAILER & TV SALES & SERV.
28 Omaha St.
Phone Fillmore 2-0654

SPEARFISH
NORTHERN HILLS MOBILE HOMES
Phone 642-2554

TENNESSEE

CHATTANOGA
DIXIE TRAILER SALES & SERVICE
4314 Ringgold Road
NASHVILE
MOBILE HOME PARTS
2321 Dickerson Road
Phone 255-9308

TEXAS

ABILENE
DEAN TRAILER SALES*
Post Office Box 202
Phone OWen 2-0126

AMARILLO
WILSON SUPPLY CO.
5309 NE 8th—Rt. 3, Box 860
DRake 4-7082

AUSTIN
MOBILE HEATING & COOLING
2211 Post Road
Phone 512 HI 2-3402

BEAUMONT
AUTOMATIC CONTROLS CO.

BEAUMONT
AUTOMATIC CONTROLS CO.
1589 College Street
Phone: TErminal 3-9463 & TErminal 3-6669
Area Code 713
BIG SPRING
D & C TRAILER SALES
3910 West Hwy. 80
Phone: AM 3-4337 — Area Code 915
CLYDE

CLYDE
DWAINE RUTHERFORD — MOBILE HOME SERVICE
RI. #1, Box 11A
Phone: 893-4809 — Area Code 915

CORPUS CHRISTI

E. L. MURRAY'S APLIANCE REPAIR
5402 Highway 9
Phone: TU 4-5758 — Area Code 512

E. L. MURRAY'S APLIANCE REPAIR
5402 Highway 9
Phone: TU 4-5758 — Area Code 512

DALLAS
DALLAS HOUSE TLR. SERV. & PARTS*
1321 Fort Worth Avenue
RI 7-0112
JOHNNY COATES MOBILE
HOME SERVICE*
3201 Ft. Worth Ave.
Phone WH 6-9242

EL PASO
BILL'S MOBILE HOME PARTS & SERVICE
7910 Sheridan Road
Phone SK 5-0854
VERNON A. TURNER
7800 Sheridan—Lot 39—Box 230
Phone: SKyline 1-0581

FT. WORTH
ED BEARDON
2920 Chesser - Boyer Rd.
Phone TE 4-5800

HOUSTON
UNIVERSAL MOBILE HOME SERVICE
2412 South Wayside Drive
Phone WA 3-5535

KILLEEN
SAS MOBILE HOME REPAIR
922 W. Hiway 190:
Phone: ME 4-7084 — Area Code 817

LUBBOCK
KEN'S MOB. HOUSE HEATING SERV.
4504 - 43rd St., Box 5151
Phone SW 9-5925

SAN ANGELO
LEE SARGENT APPLIANCE REPAIR
829 East 17th
Phone: 653-6132 — Area Code 915

SAN ANTONIO
STATE MOBILE HOME REPAIR
723 Venice Street

SAN ANTONIO
STATE MOBILE HOME REPAIR
723 Venice Street
Telephone: TA 6-1602

TEXARKANA
POSEY TRAILER SALES
Rt. 6, Box 179
Phone: 338-7516 — Area Code 214

WICHITA FALLS
MAC'S TRAILER REPAIR
2418 Sheppord Access Road
Phone 322-6511 — Area Code 817

MOAB
KEN GARFF SALES, INC.
422 South Main
Phone ALpine 3-4631
OGDEN
INTERMOUNTAIN TRAILER COMPANY
3776 Wall Avenue - P. O. Box 1503
Phone: EX 4-3405-6 ROY

ARV'S TRAILER REPAIR P. O. Box 183 Phone: 394-7432

SALT LAKE CITY
FOUR STATES SERVICE CO.
4061 West 5540 South
Phone 298-5547 — Area Code 801
TAGGE'S MOTOR, TRAILER AND COACH SERVICE
854 South Main Street
Phones: 363-8033 — EM 4-8033

VERMONT

ST. ALBANS.
ROLAND BRESSETTE MOBILE HOME SERVICE
R.D. #2
Phone LA 4-2644 — Area Code 802

WEST BRATTLEBORO
WILLIAMS MOBILE HOME REPAIR
R.F.D. #4 Hinesburg Road Phone: 254-2546 — Area Code 802

VIRGINIA

CHESAPEAKE
MOBILE HOME SERVICE CENTER
1110 Military
Phone 545-2312
EMPORIA

EMPORIA
APPLIANCE SERVICE CO.
210 School St.
Phone ME 4-2270
HARRISONBURG
TRAVEL TRAILERS OF VIRGINIA
2211 South Main Street
Harrisonburg, Virginia
Phone: 434-9676

WASHINGTON

MIDWAY
PROPANE SALES & SERVICE, INC.
22247 S. Pacific Hwy., P.O. Box 25

Phone TA 4-1611

SEATTLE
HOLIDAY MOB. HOMES, INC.
19222 Aurora Ave. No.
Phone LI 6-2227

WEST VIRGINIA

NITRO
NITRO HEATING & PLUMBING CO.
B116 Wirry Bldg., 2nd Ave.
Phone PL 5-4303
PARKERSBURG
THE PARKVUE MOBILE HOMES, INC.
1705 Blizzard Drive, South
Phone: 428-6193 — Area Code 304

WISCONSIN

FOND DU LAC STEENBERG MOBILE HOMES Highway 41 North Phone WA 2-9215

Ingrivey, 41 North
Phone WA 2-9215

JANESVILLE
JACOB'S MOBILE HOME SERVICE
1630 Beloit Ave.
Phone Pleosant 2-7441

KENOSHA
GIEN'S HEATING SERVICE
1606 53rd St.
Phone 01 -7633

LA CROSSE
MOBILE HOME SERVICE & SUPPLY, INC.
"On the Causeway"
Phone: 2-1669

MADISON
WISCONSIN MOBILE HOMES

Phone: 2-1669
MADISON
WISCONSIN MOBILE HOMES
4215 East Washington Avenue
Phone: 244-3028 & 233-5842
SCHOFIELD
J & D HOME SERVICE
281 Grand Ave.
Phone: FL 9-5540
SPARTA
MOBILE HOME SERVICE & SUPPLY
Phone Sparta 3-4500
WAUNAKEE
PAUL'S MOBILE HOME SERVICE
Route #1, Box 29
Phone Middleton, Wisconsin
836-4066

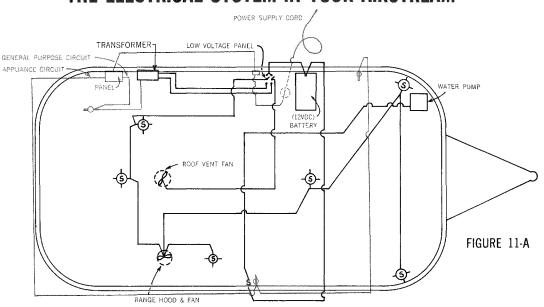
WYOMING

BIG PINEY
BUTANE POWER & EQUIPMENT CO.
CASPER
FAY PEEBLES TRAILER SALES
501 W. Yellowstone
Phone 234-2505
CHEYENNE
MARV'S TRL. SUPPLY
Rt. 1, Box 138
Phone 632-2222
RIVERTON
PURE GAS SERVICE COMPANY
Box 871
Phone UL 6-3469
ROCK SPRINGS
ARNE OJA SERVICE
432 A Street BIG PINEY

CANADA

AJAX, ONTARIO
MILLER HEATING SPECIALISTS
9 Tudor Street
Phone 942-3491
NEW WESTMINSTER, BRITISH COLUMBIA
ARCADE TRAILER SERVICE
519 St. George Street
Phone: LA 1-5628

THE ELECTRICAL SYSTEM IN YOUR AIRSTREAM



Your Airstream is equipped with the latest development in trailer electrical systems . . . the exclusive Airstream UNI-VOLT system. The lights and appliances ... even the vent fan and water pump operate from the self-contained battery power without outside hook-up. At a flick of the two master switches when you are hooked up to city power, everything operates automatically on the 110-115 volt AC current. The UNI-VOLT system is made possible through the use of new 12-volt marine light bulbs that give the same light you would expect from regular household bulbs, and a special 2-circuit transformer. Additional 110-115 volt AC convenience outlets are provided for operation of appliances such as TV, etc., when hooked up to city power. A wiring diagram of your Airstream is shown above.

The battery in your Airstream is a Delco which is warranted for 24 months. For service or replacement, go to any service station or dealer displaying the Delco sign, or look in the classified section of your telephone directory.

As you drive, the battery in your trailer is under constant charge by your car's generator. The battery, your car's wiring and your Airstream's wiring are protected by a series of automatic circuit breakers which trip when a short or current surge occurs and go back into operation automatically when the trouble is corrected.

When you are operating your trailer on 110-115 volt city current, the wiring is protected by circuit breakers located in the panel behind the wardrobe. The low-voltage wiring is protected by automatic circuit break-

ers. The battery circuit is protected by two heavy duty automotive-type 40-amp fuses.

WHEN YOU ARE OPERATING YOUR AIRSTREAM SELF-CONTAINED

All that is necessary to operate the UNI-VOLT system on battery power is to:

- 1. Throw both switches in the trunk compartment to the "Battery Power" position.
- 2. Store power supply cable in the storage compartment.

All 110-volt convenience outlets will now be inoperable.

TO OPERATE WITH CITY POWER

To operate the UNI-VOLT system in your Airstream trailer from 110-115 volt AC city power, the procedure to follow is:

- 1. Throw switches in the trunk compartment to the "City Power" position.
- 2. Pull power supply cable out of the storage compartment and plug into city power.

NOTE: Be sure polarity indicator light (located on top of main panel) is off when power supply cable is plugged in.

As long as you are hooked into electrical service that

accepts the three-prong grounded plug, you should not have a problem with polarity. However, in older parks and many other locations you will not be able to tie into three wire grounded service. In this event follow this procedure:

- a. Attach the three-prong plug on your trailer power supply cable to a two-prong adapter. The third conductor line from the adapter has a ground lug. This is your ground line.
- b. Clamp ground line to junction box or other ground such as a water pipe, then insert two-prong plug into the receptacle.
- c. After cord has been connected look at the switch panel in the electrical service center. If the neon light is glowing, pull out the plug, turn over and reinsert. The neon lamp will now be out and the polarity will be correct. Your Airstream electrical system is grounded.

It is necessary to ground the service coming into your Airstream to prevent a possible shock to anyone touching your trailer.

NOTE: Always make certain that the trailer park service is 110-115 volt, not 220V.

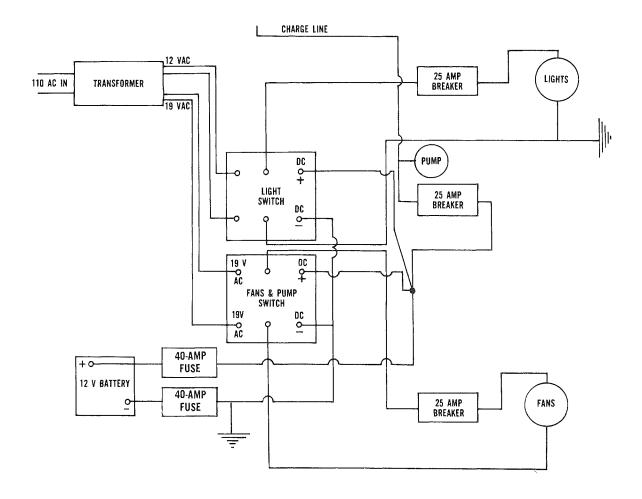


FIGURE 11-B

THE ELECTRICAL SYSTEM IN YOUR AIRSTREAM

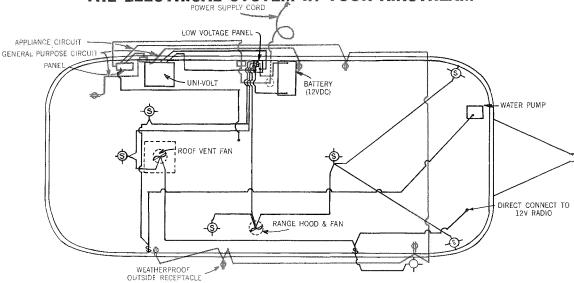


FIGURE 11-A

Your Airstream is equipped with the latest development in trailer electrical systems: the exclusive Airstream UNI-VOLT system. The lights and appliances - even the vent fan, range fan, and furnace air circulator—operate from the self-contained battery power without outside hook-up. When you are hooked up to city power, everything operates automatically on the 120-volt AC current. The UNI-VOLT system is made possible through the use of new 12-volt marine light bulbs that give the same light you would expect from regular household bulbs, and a special high-capacity combination 12-volt DC power supply and battery charger with all solid-state circuitry. Additional 120volt AC convenience outlets are provided for operation of appliances such as TV, etc., when hooked up to city power. A wiring diagram of your Airstream is shown above.

The battery in your Airstream is a Prestolite, warranted for 24 months. For service or replacement, go to any service station or dealer displaying the Prestolite sign, or look in the classified section of your telephone directory.

As you drive, the battery in your trailer is under constant charge by your car's generator. The battery, your car's wiring and your Airstream's wiring are protected by a series of fuses, and by automatic circuit breakers which trip when a short or current surge occurs and go back into operation automatically when the trouble is corrected.

When you are operating your trailer on 120-volt city current, the wiring is protected by circuit breakers located in the panel box inside the rear wardrobe. In the event of failure of a 120-volt circuit, check the cir-

cuit breaker first. If the breaker continues to trip after you have re-set it several times, your circuit may be overloaded with appliances, or there may be a short in the circuit. If lessening the load on the circuit does not solve the problem, consult an electrician. In models with factory-installed air conditioning, a separate 120-volt circuit with separate circuit breaker is provided to avoid possible overloading of the appliance circuits.

WHEN YOU ARE OPERATING YOUR AIRSTREAM SELF-CONTAINED

All that is necessary to operate the UNI-VOLT system on battery power is to disconnect the power supply cable from the city power receptacle.

All 120-volt convenience outlets and the air conditioner, if you have this optional accessory, will now be inoperable.

TO OPERATE WITH CITY POWER

To operate the UNI-VOLT system in your Airstream from 120-volt AC city power, pull the power supply cable out of the storage compartment and plug in to city power.

Stop Service Center.)

NOTE: Be sure polarity indicator light is off when power supply cable is plugged in. (In the 20-foot model, the polarity indicator light is located in the frame of the access panel forward of the wheel housing on the left side of the trailer. In all other models, the indicator light is located in the One-

As long as you are hooked into electrical service that accepts the three-prong grounded plug, you should not have a problem with polarity. However, in older parks and many other locations you will not be able to tie into three wire grounded service. In this event follow this procedure:

- a. Attach the three-prong plug on your trailer power supply cable to a two-prong adapter. The third conductor line from the adapter has a ground lug. This is your ground line.
- b. Clamp ground line to junction box or other ground such as a water pipe, then insert two-

- prong plug into the receptacle.
- c. After cord has been connected check the polarity indicator light. If it is on, pull out the plug, turn it over, and reinsert. The neon lamp will now be out, and the polarity will be correct. Your Airstream electrical system is grounded.

It is necessary to ground the service coming into your Airstream to prevent a possible shock to anyone touching your trailer.

NOTE: Always make certain that the trailer park service is 120-volt, not 220V.

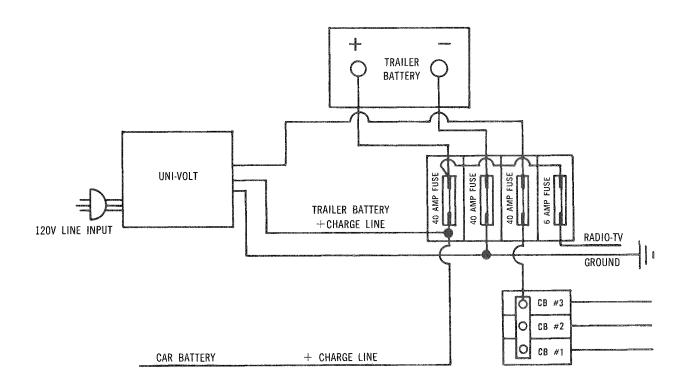


FIGURE 11-B

THE ELECTRICAL SYSTEM IN YOUR AIRSTREAM

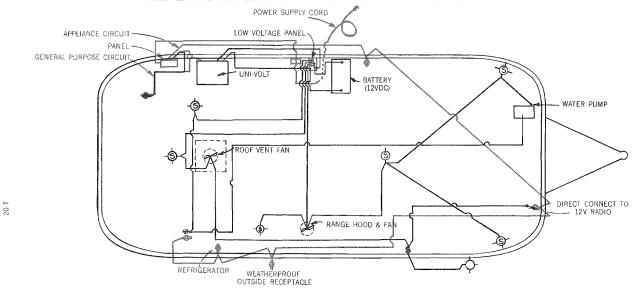


FIGURE 11-A

Your Airstream is equipped with the latest development in trailer electrical systems: the exclusive Airstream UNI-VOLT system. The lights and appliances — even the vent fan, range fan, and furnace air circulator—operate from the self-contained battery power without outside hook-up. When you are hooked up to city power, everything operates automatically on the 120-volt AC current. The UNI-VOLT system is made possible through the use of new 12-volt marine light bulbs that give the same light you would expect from regular household bulbs, and a special high-capacity combination 12-volt DC power supply and battery charger with all solid-state circuitry. Additional 120volt AC convenience outlets are provided for operation of appliances such as TV, etc., when hooked up to city power. A wiring diagram of your Airstream is shown above.

The battery in your Airstream is a Prestolite, warranted for 24 months. For service or replacement, go to any service station or dealer displaying the Prestolite sign, or look in the classified section of your telephone directory.

As you drive, the battery in your trailer is under constant charge by your car's generator. The battery, your car's wiring and your Airstream's wiring are protected by a series of fuses, and by automatic circuit breakers which trip when a short or current surge occurs and go back into operation automatically when the trouble is corrected.

When you are operating your trailer on 120-volt city current, the wiring is protected by circuit breakers located in the panel box inside the rear wardrobe. In the event of failure of a 120-volt circuit, check the cir-

cuit breaker first. If the breaker continues to trip after you have re-set it several times, your circuit may be overloaded with appliances, or there may be a short in the circuit. If lessening the load on the circuit does not solve the problem, consult an electrician. In models with factory-installed air conditioning, a separate 120-volt circuit with separate circuit breaker is provided to avoid possible overloading of the appliance circuits.

WHEN YOU ARE OPERATING YOUR AIRSTREAM SELF-CONTAINED

All that is necessary to operate the UNI-VOLT system on battery power is to disconnect the power supply cable from the city power receptacle.

All 120-volt convenience outlets and the air conditioner, if you have this optional accessory, will now be inoperable.

TO OPERATE WITH CITY POWER

To operate the UNI-VOLT system in your Airstream from 120-volt AC city power, pull the power supply cable out of the storage compartment and plug in to city power.

NOTE: Be sure polarity indicator light is off when power supply cable is plugged in. (In the 20-foot model, the polarity indicator light is located in the frame of the access panel forward of the wheel housing on the left side of the trailer. In all other models, the indicator light is located in the One-Stop Service Center.)

As long as you are hooked into electrical service that accepts the three-prong grounded plug, you should not have a problem with polarity. However, in older parks and many other locations you will not be able to tie into three wire grounded service. In this event follow this procedure:

- a. Attach the three-prong plug on your trailer power supply cable to a two-prong adapter. The third conductor line from the adapter has a ground lug. This is your ground line.
- b. Clamp ground line to junction box or other ground such as a water pipe, then insert two-

- prong plug into the receptacle.
- c. After cord has been connected check the polarity indicator light. If it is on, pull out the plug, turn it over, and reinsert. The neon lamp will now be out, and the polarity will be correct. Your Airstream electrical system is grounded.

It is necessary to ground the service coming into your Airstream to prevent a possible shock to anyone touching your trailer.

NOTE: Always make certain that the trailer park service is 120-volt, not 220V.

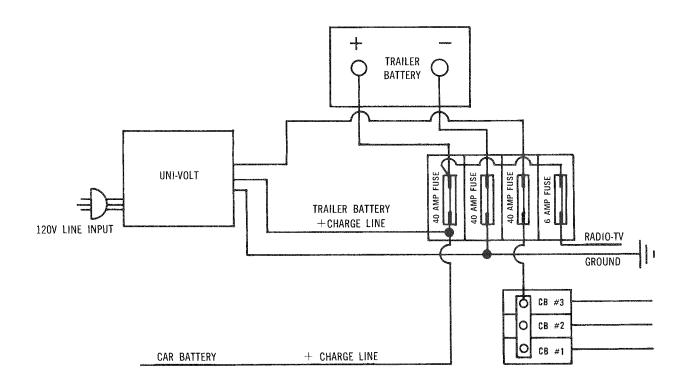


FIGURE 11-B

THE ELECTRICAL SYSTEM IN YOUR AIRSTREAM

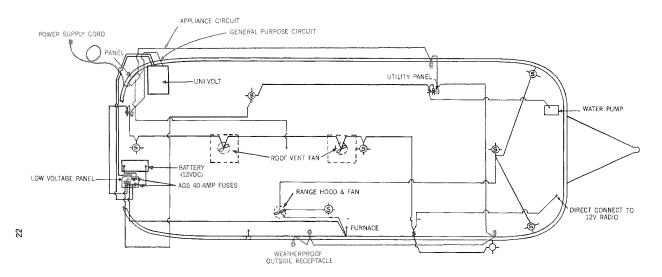


FIGURE 11-A

Your Airstream is equipped with the latest development in trailer electrical systems: the exclusive Airstream UNI-VOLT system. The lights and appliances - even the vent fan, range fan, and furnace air circulator—operate from the self-contained battery power without outside hook-up. When you are hooked up to city power, everything operates automatically on the 120-volt AC current. The UNI-VOLT system is made possible through the use of new 12-volt marine light bulbs that give the same light you would expect from regular household bulbs, and a special high-capacity combination 12-volt DC power supply and battery charger with all solid-state circuitry. Additional 120volt AC convenience outlets are provided for operation of appliances such as TV, etc., when hooked up to city power. A wiring diagram of your Airstream is shown above.

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As you drive, the battery in your trailer is under constant charge by your car's generator. The battery, your car's wiring and your Airstream's wiring are protected by a series of fuses, and by automatic circuit breakers which trip when a short or current surge occurs and go back into operation automatically when the trouble is corrected.

When you are operating your trailer on 120-volt city current, the wiring is protected by circuit breakers located in the panel box inside the rear wardrobe. In the event of failure of a 120-volt circuit, check the circuit breaker first. If the breaker continues to trip after you have re-set it several times, your circuit may be overloaded with appliances, or there may be a short in the circuit. If lessening the load on the circuit does not solve the problem, consult an electrician. In models with factory-installed air conditioning, a separate 120-volt circuit with separate circuit breaker is provided to avoid possible overloading of the appliance circuits.

WHEN YOU ARE OPERATING YOUR AIRSTREAM SELF-CONTAINED

All that is necessary to operate the UNI-VOLT system on battery power is to disconnect the power supply cable from the city power receptacle.

All 120-volt convenience outlets and the air conditioner, if you have this optional accessory, will now be inoperable.

TO OPERATE WITH CITY POWER

To operate the UNI-VOLT system in your Airstream from 120-volt AC city power, pull the power supply cable out of the storage compartment and plug in to city power.

NOTE: Be sure polarity indicator light is off when power supply cable is plugged in. (In the 20-foot model, the polarity indicator light is located in the frame of the access panel forward of the wheel housing on the left side of the trailer. In all other models, the indicator light is located in the One-

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- a. Attach the three-prong plug on your trailer power supply cable to a two-prong adapter. The third conductor line from the adapter has a ground lug. This is your ground line.
- b. Clamp ground line to junction box or other ground such as a water pipe, then insert two-

- prong plug into the receptacle.
- c. After cord has been connected check the polarity indicator light. If it is on, pull out the plug, turn it over, and reinsert. The neon lamp will now be out, and the polarity will be correct. Your Airstream electrical system is grounded.

It is necessary to ground the service coming into your Airstream to prevent a possible shock to anyone touching your trailer.

NOTE: Always make certain that the trailer park service is 120-volt, not 220V.

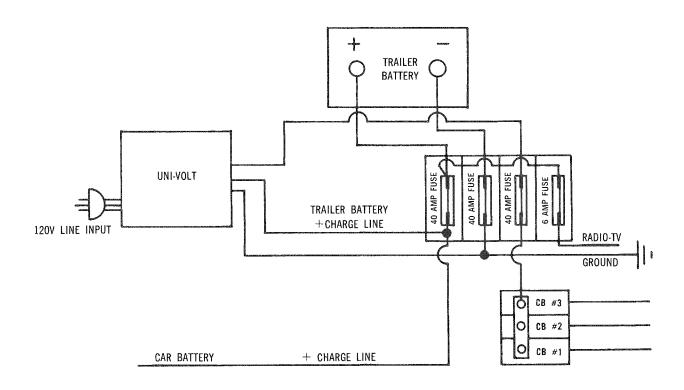


FIGURE 11-B

THE ELECTRICAL SYSTEM IN YOUR AIRSTREAM

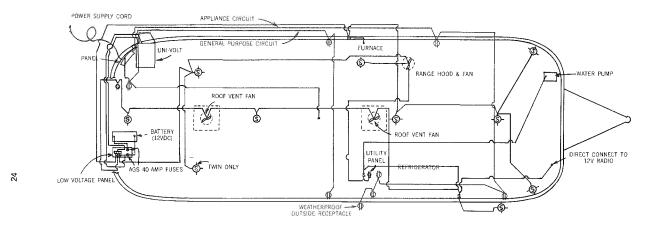


FIGURE 11-A

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As you drive, the battery in your trailer is under constant charge by your car's generator. The battery, your car's wiring and your Airstream's wiring are protected by a series of fuses, and by automatic circuit breakers which trip when a short or current surge occurs and go back into operation automatically when the trouble is corrected.

When you are operating your trailer on 120-volt city current, the wiring is protected by circuit breakers located in the panel box inside the rear wardrobe. In the event of failure of a 120-volt circuit, check the cir-

cuit breaker first. If the breaker continues to trip after you have re-set it several times, your circuit may be overloaded with appliances, or there may be a short in the circuit. If lessening the load on the circuit does not solve the problem, consult an electrician. In models with factory-installed air conditioning, a separate 120-volt circuit with separate circuit breaker is provided to avoid possible overloading of the appliance circuits.

WHEN YOU ARE OPERATING YOUR AIRSTREAM SELF-CONTAINED

All that is necessary to operate the UNI-VOLT system on battery power is to disconnect the power supply cable from the city power receptacle.

All 120-volt convenience outlets and the air conditioner, if you have this optional accessory, will now be inoperable.

TO OPERATE WITH CITY POWER

To operate the UNI-VOLT system in your Airstream from 120-volt AC city power, pull the power supply cable out of the storage compartment and plug in to city power.

NOTE: Be sure polarity indicator light is off when power supply cable is plugged in. (In the 20-foot model, the polarity indicator light is located in the frame of the access panel forward of the wheel housing on the left side of the trailer. In all other models, the indicator light is located in the One-Stop Service Center.)

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- a. Attach the three-prong plug on your trailer power supply cable to a two-prong adapter. The third conductor line from the adapter has a ground lug. This is your ground line.
- b. Clamp ground line to junction box or other ground such as a water pipe, then insert two-

- prong plug into the receptacle.
- c. After cord has been connected check the polarity indicator light. If it is on, pull out the plug, turn it over, and reinsert. The neon lamp will now be out, and the polarity will be correct. Your Airstream electrical system is grounded.

It is necessary to ground the service coming into your Airstream to prevent a possible shock to anyone touching your trailer.

NOTE: Always make certain that the trailer park service is 120-volt, not 220V.

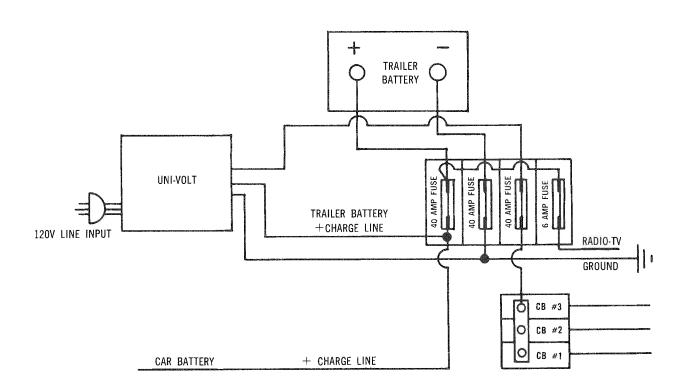


FIGURE 11-B

THE ELECTRICAL SYSTEM IN YOUR AIRSTREAM

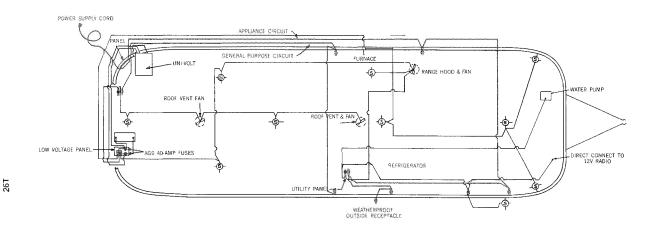


FIGURE 11-A

Your Airstream is equipped with the latest development in trailer electrical systems: the exclusive Airstream UNI-VOLT system. The lights and appliances - even the vent fan, range fan, and furnace air circulator—operate from the self-contained battery power without outside hook-up. When you are hooked up to city power, everything operates automatically on the 120-volt AC current. The UNI-VOLT system is made possible through the use of new 12-volt marine light bulbs that give the same light you would expect from regular household bulbs, and a special high-capacity combination 12-volt DC power supply and battery charger with all solid-state circuitry. Additional 120volt AC convenience outlets are provided for operation of appliances such as TV, etc., when hooked up to city power. A wiring diagram of your Airstream is shown above.

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As you drive, the battery in your trailer is under constant charge by your car's generator. The battery, your car's wiring and your Airstream's wiring are protected by a series of fuses, and by automatic circuit breakers which trip when a short or current surge occurs and go back into operation automatically when the trouble is corrected.

When you are operating your trailer on 120-volt city current, the wiring is protected by circuit breakers located in the panel box inside the rear wardrobe. In the event of failure of a 120-volt circuit, check the cir-

cuit breaker first. If the breaker continues to trip after you have re-set it several times, your circuit may be overloaded with appliances, or there may be a short in the circuit. If lessening the load on the circuit does not solve the problem, consult an electrician. In models with factory-installed air conditioning, a separate 120-volt circuit with separate circuit breaker is provided to avoid possible overloading of the appliance circuits.

WHEN YOU ARE OPERATING YOUR AIRSTREAM SELF-CONTAINED

All that is necessary to operate the UNI-VOLT system on battery power is to disconnect the power supply cable from the city power receptacle.

All 120-volt convenience outlets and the air conditioner, if you have this optional accessory, will now be inoperable.

TO OPERATE WITH CITY POWER

To operate the UNI-VOLT system in your Airstream from 120-volt AC city power, pull the power supply cable out of the storage compartment and plug in to city power.

NOTE: Be sure polarity indicator light is off when power supply cable is plugged in. (In the 20-foot model, the polarity indicator light is located in the frame of the access panel forward of the wheel housing on the left side of the trailer. In all other models, the indicator light is located in the One-Stop Service Center.)

As long as you are hooked into electrical service that accepts the three-prong grounded plug, you should not have a problem with polarity. However, in older parks and many other locations you will not be able to tie into three wire grounded service. In this event follow this procedure:

- a. Attach the three-prong plug on your trailer power supply cable to a two-prong adapter. The third conductor line from the adapter has a ground lug. This is your ground line.
- b. Clamp ground line to junction box or other ground such as a water pipe, then insert two-

- prong plug into the receptacle.
- c. After cord has been connected check the polarity indicator light. If it is on, pull out the plug, turn it over, and reinsert. The neon lamp will now be out, and the polarity will be correct. Your Airstream electrical system is grounded.

It is necessary to ground the service coming into your Airstream to prevent a possible shock to anyone touching your trailer.

NOTE: Always make certain that the trailer park service is 120-volt, not 220V.

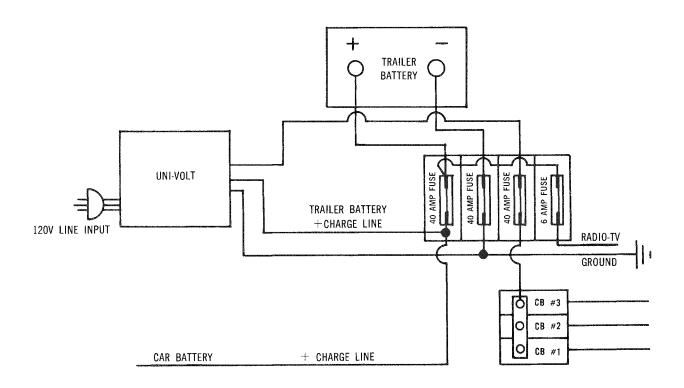


FIGURE 11-B

THE ELECTRICAL SYSTEM IN YOUR AIRSTREAM

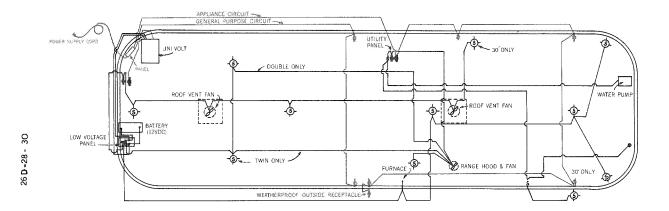


FIGURE 11-A

Your Airstream is equipped with the latest development in trailer electrical systems: the exclusive Airstream UNI-VOLT system. The lights and appliances — even the vent fan, range fan, and furnace air circulator—operate from the self-contained battery power without outside hook-up. When you are hooked up to city power, everything operates automatically on the 120-volt AC current. The UNI-VOLT system is made possible through the use of new 12-volt marine light bulbs that give the same light you would expect from regular household bulbs, and a special high-capacity combination 12-volt DC power supply and battery charger with all solid-state circuitry. Additional 120volt AC convenience outlets are provided for operation of appliances such as TV, etc., when hooked up to city power. A wiring diagram of your Airstream is shown above.

The battery in your Airstream is a Prestolite, warranted for 24 months. For service or replacement, go to any service station or dealer displaying the Prestolite sign, or look in the classified section of your telephone directory.

As you drive, the battery in your trailer is under constant charge by your car's generator. The battery, your car's wiring and your Airstream's wiring are protected by a series of fuses, and by automatic circuit breakers which trip when a short or current surge occurs and go back into operation automatically when the trouble is corrected.

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All 120-volt convenience outlets and the air conditioner, if you have this optional accessory, will now be inoperable.

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NOTE: Be sure polarity indicator light is off when power supply cable is plugged in. (In the 20-foot model, the polarity indicator light is located in the frame of the access panel forward of the wheel housing on the left side of the trailer. In all other models, the indicator light is located in the One-Stop Service Center.)

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- prong plug into the receptacle.
- c. After cord has been connected check the polarity indicator light. If it is on, pull out the plug, turn it over, and reinsert. The neon lamp will now be out, and the polarity will be correct. Your Airstream electrical system is grounded.

It is necessary to ground the service coming into your Airstream to prevent a possible shock to anyone touching your trailer.

NOTE: Always make certain that the trailer park service is 120-volt, not 220V.

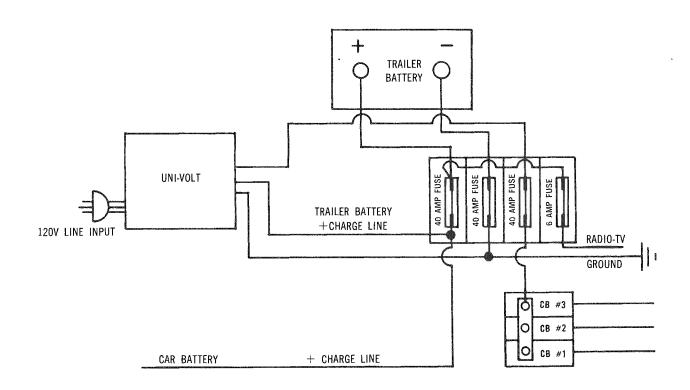
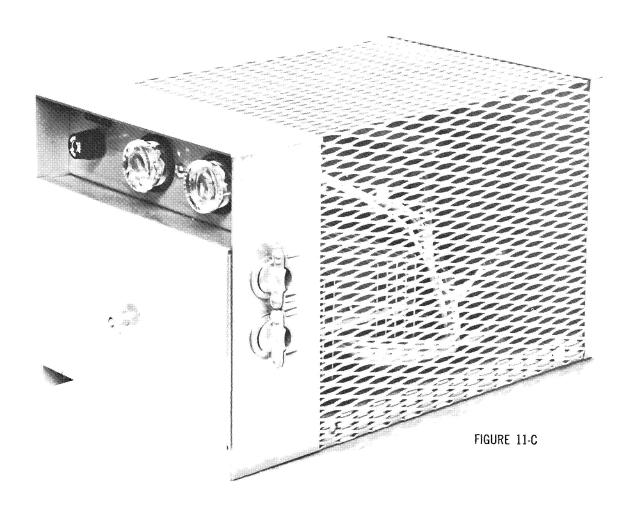


FIGURE 11-B



UNI-VOLT OPERATING AND SERVICE INSTRUCTIONS

Operating from a 120 volt line input, the UNI-VOLT will provide substantial current to a DC load while maintaining your 12-volt battery at a full charge condition.

The UNI-VOLT incorporates a unique voltage-sensing section in the charger circuit that automatically controls charging current. When the battery is fully charged, shut-off is complete; it is impossible to overcharge. Because of its ability to operate over a wide range of input voltage, and because charger shut-off

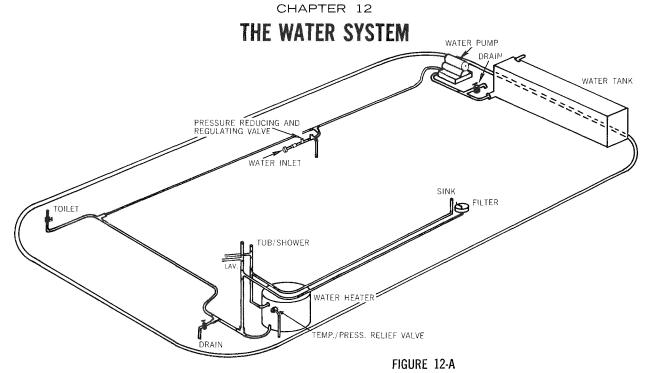
is 100%, no adjustments or controls are required, and none are provided.

All circuitry is protected from damage by internal devices or fuses. All fuses are standard automotive or household types and are readily available. The unit is UL-approved.

TROUBLESHOOTING

As with any mechanical or electrical system, malfunctions may occur in your UNI-VOLT system from time to time. Following is a checklist of likely causes of some of the commonest troubles.

SYMPTOM	POSSIBLE CAUSE	REMEDY
NO LOAD VOLTAGE (LIGHTS, APPLIANCES DO NOT WORK)	1. INPUT LINE AND/OR BATTERY NOT CONNECTED	1. MAKE NECESSARY CONNECTIONS
	2. FUSE BLOWN	2. SEE NEXT 3 ITEMS
BLOWN LOAD FUSE	3. OVERLOADED CIRCUIT (OVER 40 AMPERES)	3. TURN OFF SWITCHES TO REDUCE LOAD TO 40 AMPERES OR LESS AND REPLACE LOAD FUSE WITH A 40 AMPERE AGS FUSE
	4. SHORTED LOAD	4. CHECK FOR DEFECTIVE WIRING, LAMPS, OR MOTORS, AND REPAIR REPLACE LOAD FUSE AS INDI CATED IN STEP 3 ABOVE.
BLOWN BATTERY FUSE	5. SHORTED BATTERY	5. REPLACE BATTERY AND BATTERY FUSE AS IN STEP 3 ABOVE.
	6. SHORT IN WIRING BETWEEN BATTERY AND UNI-VOLT	6. REPLACE OR REPAIR DEFECTIVE WIRING. REPLACE BATTERY FUSE
	7. BATTERY TERMINALS NOT PROPERLY CONNECTED TO UNI- VOLT (+) AND (-) TERMINALS	7. MAKE PROPER CONNECTIONS POSITIVE BATTERY TERMINAL TO UNI-VOLT BATT. (+) AND NEGA TIVE BATTERY TERMINAL TO BATT. (-). REPLACE BATTERY FUSE.
BLOWN LINE FUSE	8. INCORRECT INPUT LINE VOLTAGE (SUCH AS 230 VAC OR 25 CPS LINE)	8. CONNECT TO 120 VAC, 60 CP: LINE.
DIM LIGHTS OR SLUGGISH FAN MOTOR	9. LOW LINE VOLTAGE	9. USE LINE VOLTAGE OF 120 VA ±10 VOLTS.
	10. 25 CPS LINE FREQUENCY	10. USE 60 CPS LINE FREQUENCY.
	11. DISCHARGED BATTERY (WHEN OPERATING WITH- OUT 120 VAC LINE)	11. CHARGE BATTERY.
UNI-VOLT WILL NOT CHARGE BATTERY	12. INPUT LINE NOT CONNECTED	12. CONNECT INPUT LINE.
	13. BATTERY NOT CONNECTED	13. CONNECT BATTERY TO UNI-VOLT
	14. BAD BATTERY	14. REPLACE BATTERY.
SPECIFIC GRAVITY OF BATTERY IS TOO HIGH (OVER 1.275)	15. BATTERY IS LOW ON WATER	15. ADD DISTILLED WATER TO BATTERY.



The water system in your Airstream trailer provides full service both when city water is available and when the trailer is operated completely self-contained.

When you are operating your water system from a city water service, connect a hose to the water entry fitting located on the left side of the trailer. Since the system is completely automatic, nothing else needs to be done before you utilize the entire water system, except to turn the switch on the water pump to the "Off" position.

If the water system has previously been drained it will be necessary for you to force the air from the water heater before lighting the water heater. Open a hot water faucet and allow all of the air to be forced through. If you plan to remain for some time where city water is available, drain the water storage tank and refill with fresh water before departing. Your system has check valves in the water lines to protect the water tank and, therefore will not fill while you are connected to city water, unless the crossover filler valve is opened. This crossover filler valve is located adjacent to the water pump underneath the front lounge on the left side of the trailer. It should always be kept in the "Off" position unless the water tank is being filled from the city water source. To fill the water tank when the trailer is connected to city water, merely turn this crossover valve to the "On" position and remove the filler cap from the water tank. Removal of the filler cap will preclude the water tank from being pressurized from the city water pressure, which could cause a potential failure in the tank.

If city water is not available, or will not be available at your destination, the Airstream self-contained water system may be used. The lightweight polyethylene water tank stores 30 gallons of tasteless, odorless, clean fresh water for all your needs. The new Airstream pressure-demand water pump runs whenever a faucet is open and shuts off almost immediately when the faucet is closed; silently delivering 4.3 gallons per minute under constant pressure. To fill the water storage tank, remove the filler cap and fill the tank with a water hose or bucket, or through the city water crossover valve as described earlier. The tank may be filled until the water entry pipe is overflowing. Replace the cap...the water system is now ready for use. Remember, if you have been hooked up to city water your tank will not have been filled, unless the crossover valve has been opened, so be sure to fill it before leaving. If the hot water tank was completely empty it must be refilled before lighting by opening a hot water faucet and waiting until water comes out the faucet.

The Airstream pressure-demand water pump is conveniently located under the left-hand side of the front lounge. To gain access to the pump, pull the lounge out, remove the filler mattress, and lift off the loose plywood cover on the left-hand side of the lounge. This will give complete access to the pump, the water tank fill valve, the drain valve, and the water screen. NOTE: before leaving your Airstream unattended for any length of time, it is advisable to turn off the water pump at the galley switch.

The water screen mentioned above should be cleaned periodically to prevent accumulation of dirt, sand, etc. The screen is located under the front lounge next to the pump. To remove it, disconnect the rubber hoses from either end, separate the screen housing, and lift the screen out of the compartment.

Due to iron and lime deposits which are found in various parts of the country, it is advisable to clean the tank occasionally. Pour some bicarbonate of soda into the filler pipe with several gallons of water and allow to stand for several hours. Flush out by opening the drain cock and running cold water through the tank. Among the many fine accessories for an Airstream trailer is the HyPur water purifier at your galley sink. This remarkable unit is a complete water purification system that will provide crystal clear, good tasting and pure drinking and cooking water wherever you travel. It effectively removes all chlorine, organic odors, taste and most harmful bacteria.

It will be necessary to change the pack in your HyPur water purifier periodically with a type HP 10 replacement pack. These are available from your dealer, or accessory store. Instructions for changing the pack are in each box. It is a good idea to order packs two at a time so that you will always have a spare on hand.

Your Airstream is equipped with a water pressure regulator. This is an exclusive feature which protects the plumbing inside your Airstream from possibly excessive pressures which may be encountered in city water systems. The water pressure regulator insures that regardless of variations in the city water pressure, the water pressure at the faucets in your Airstream will always remain constant. If it should ever become necessary to adjust the water pressure regulator there is a screw adjustment located on the dome (see Figure 12-A). Turning this screw clockwise increases pressure—counter clockwise decreases pressure.

TROUBLE SHOOTING

Trouble — Pump does not prime

- a. Be sure there is water in the tank.
- b. Make certain battery power has not been exhausted.
- c. Check valve assemblies to make certain no foreign matter is between the valve and valve seat causing loss of suction. This is done as follows:
 - 1. Remove four slotted head screws (see Figure 12-B.
 - 2. Lift motor, drive, and diaphragm assembly off base.
 - 3. Lift valve assemblies from pockets and clean all foreign matter from valve and valve seat.

- 4. Replace valve assemblies back in the same pockets, being sure rubber valve is in UP on INTAKE SIDE and DOWN on EXHAUST SIDE.
- 5. Replace top assembly and bolt back together, being careful to tighten evenly.

Trouble — Pressure drops and pump kicks on periodically when water is not being drawn

- a. Check all connections and faucets for leaks. One drop of water per minute will cause the pump to run every two hours.
- b. Same as C above.

Trouble — Pump operation is rough and makes excessive noise

a. After several months of operation, under certain conditions, the flow of the pump may become rough. If this happens the flow may be smoothed out again as follows: turn pump off, close inlet, open outlet, and with an air pump force air into system through the snifter valve (located at the rear of the unit on the intake side) until air comes from the outlet. Recap snifter, open intake and restart unit. Periodic attention should be given to snifter valve to see that valve core works freely and the hole in cover is kept open.

Trouble — Excessive belt wear (Not applicable to 17' Caravel)

a. Adjust belt for proper tension. Belt has proper tension if it can be moved in and out on one side a total of 4" at a point half way between pulleys. To adjust belt: loosen nuts on end of motor and slide motor up or down until desired tension is attained, then retighten nuts.

Trouble — Pump runs frequently or constantly and there is no leak in the pressure side

a. Check for an air leak on the suction side of the pump (between the tank and the pump). This will not damage the pump but will run the battery down.

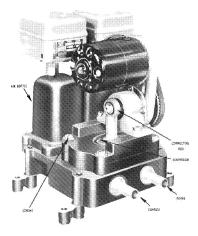
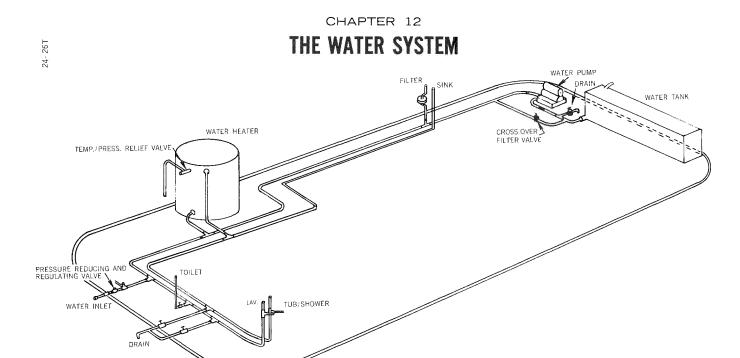


FIGURE 12-B



The water system in your Airstream trailer provides full service both when city water is available and when the trailer is operated completely self-contained.

When you are operating your water system from a city water service, connect a hose to the water entry fitting located on the left side of the trailer. Since the system is completely automatic, nothing else needs to be done before you utilize the entire water system, except to turn the switch on the water pump to the "Off" position.

If the water system has previously been drained it will be necessary for you to force the air from the water heater before lighting the water heater. Open a hot water faucet and allow all of the air to be forced through. If you plan to remain for some time where city water is available, drain the water storage tank and refill with fresh water before departing. Your system has check valves in the water lines to protect the water tank and, therefore will not fill while you are connected to city water, unless the crossover filler valve is opened. This crossover filler valve is located adjacent to the water pump underneath the front lounge on the left side of the trailer. It should always be kept in the "Off" position unless the water tank is being filled from the city water source. To fill the water tank when the trailer is connected to city water, merely turn this crossover valve to the "On" position and remove the filler cap from the water tank. Removal of the filler cap will preclude the water tank from being pressurized from the city water pressure, which could cause a potential failure in the tank.

If city water is not available, or will not be available at your destination, the Airstream self-contained water system may be used. The lightweight polyethylene water tank stores 30 gallons of tasteless, odorless, clean fresh water for all your needs. The new Airstream pressure-demand water pump runs whenever a faucet is open and shuts off almost immediately when the faucet is closed; silently delivering 4.3 gallons per minute under constant pressure. To fill the water storage tank, remove the filler cap and fill the tank with a water hose or bucket, or through the city water crossover valve as described earlier. The tank may be filled until the water entry pipe is overflowing. Replace the cap...the water system is now ready for use. Remember, if you have been hooked up to city water your tank will not have been filled, unless the crossover valve has been opened, so be sure to fill it before leaving. If the hot water tank was completely empty it must be refilled before lighting by opening a hot water faucet and waiting until water comes out the faucet.

FIGURE 12-A

The Airstream pressure-demand water pump is conveniently located under the left-hand side of the front lounge. To gain access to the pump, pull the lounge out, remove the filler mattress, and lift off the loose plywood cover on the left-hand side of the lounge. This will give complete access to the pump, the water tank fill valve, the drain valve, and the water screen. NOTE: before leaving your Airstream unattended for any length of time, it is advisable to turn off the water pump at the galley switch.

The water screen mentioned above should be cleaned periodically to prevent accumulation of dirt, sand, etc. The screen is located under the front lounge next to the pump. To remove it, disconnect the rubber hoses from either end, separate the screen housing, and lift the screen out of the compartment.

Due to iron and lime deposits which are found in various parts of the country, it is advisable to clean the tank occasionally. Pour some bicarbonate of soda into the filler pipe with several gallons of water and allow to stand for several hours. Flush out by opening the drain cock and running cold water through the tank. Among the many fine accessories for an Airstream trailer is the HyPur water purifier at your galley sink. This remarkable unit is a complete water purification system that will provide crystal clear, good tasting and pure drinking and cooking water wherever you travel. It effectively removes all chlorine, organic odors, taste and most harmful bacteria.

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TROUBLE SHOOTING

Trouble — Pump does not prime

- a. Be sure there is water in the tank.
- b. Make certain battery power has not been exhausted.
- c. Check valve assemblies to make certain no foreign matter is between the valve and valve seat causing loss of suction. This is done as follows:
 - 1. Remove four slotted head screws (see Figure 12-B.
 - 2. Lift motor, drive, and diaphragm assembly off base.
 - 3. Lift valve assemblies from pockets and clean all foreign matter from valve and valve seat.

- Replace valve assemblies back in the same pockets, being sure rubber valve is in UP on INTAKE SIDE and DOWN on EXHAUST SIDE.
- 5. Replace top assembly and bolt back together, being careful to tighten evenly.

Trouble — Pressure drops and pump kicks on periodically when water is not being drawn

- a. Check all connections and faucets for leaks. One drop of water per minute will cause the pump to run every two hours.
- b. Same as C above.

Trouble — Pump operation is rough and makes excessive noise

a. After several months of operation, under certain conditions, the flow of the pump may become rough. If this happens the flow may be smoothed out again as follows: turn pump off, close inlet, open outlet, and with an air pump force air into system through the snifter valve (located at the rear of the unit on the intake side) until air comes from the outlet. Recap snifter, open intake and restart unit. Periodic attention should be given to snifter valve to see that valve core works freely and the hole in cover is kept open.

Trouble — Excessive belt wear (Not applicable to 17' Caravel)

a. Adjust belt for proper tension. Belt has proper tension if it can be moved in and out on one side a total of ¼" at a point half way between pulleys. To adjust belt: loosen nuts on end of motor and slide motor up or down until desired tension is attained, then retighten nuts.

Trouble — Pump runs frequently or constantly and there is no leak in the pressure side

a. Check for an air leak on the suction side of the pump (between the tank and the pump). This will not damage the pump but will run the battery down.

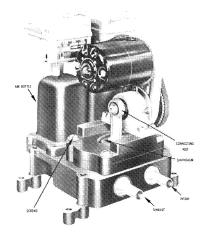
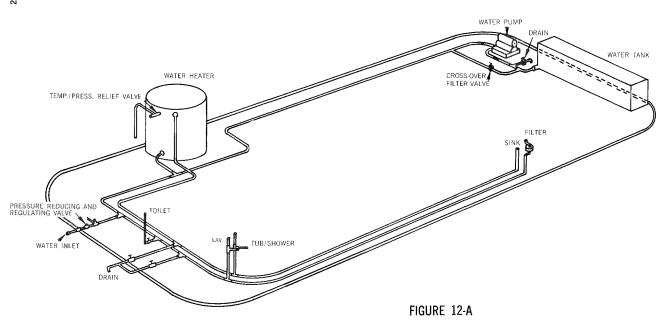


FIGURE 12-B

THE WATER SYSTEM



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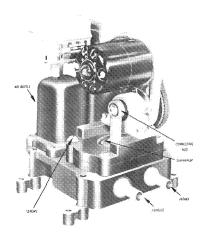
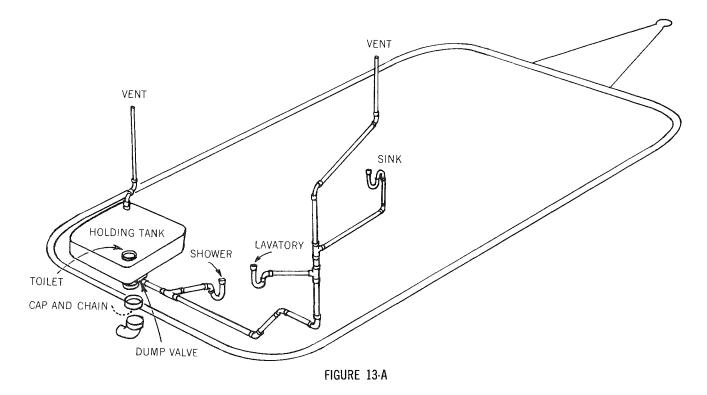


FIGURE 12-B

THE SEWAGE AND WASTE DISPOSAL SYSTEM IN YOUR AIRSTREAM



Your Airstream is equipped with a waste holding tank for sewage which permits use of the toilet for several days away from disposal facilities. The waste water from the sink, the shower, bath and lavatory all drain through the same outlet as the waste tank so you will need to make only one connection when hooking up in a trailer park. The diagram above shows the waste water disposal and waste holding tank in your Airstream.

The waste holding tank is made of seamless molded plastic, completely free from corrosion problems, with a specially designed dump valve for trouble-free operation. The best procedure for use of the waste holding tank when hooked-up to a sewer connection is to keep the dump valve closed and use plenty of water when flushing. This will prevent paper and waste material from building up at the valve causing the valve to close improperly and to leak.

When the toilet will no longer drain, the tank is full and must be emptied... watch this closely because when the tank is full the sewage cannot be emptied from the toilet bowl. To empty tank, attach sewer hose by pressing the fitting on the outlet and rotating until it feels solid and secure. Attach the outlet end of the hose to the sewage outlet making certain that the hose

is positioned so that it will drain completely. Pull the dump valve handle up as far as it will go and wait until the tank is drained. Refill the tank with 5-10 gallons of clean water and repeat the operation to insure that all paper and waste material has been flushed out. Close valve.

If you are moving on, place a small amount of clean water in your tank with some commercial cleaner such as TST so that it will slosh around and clean the tank while you are driving. The dump valve handle is equipped with a wire hold-down bail for positive protection against accidental release of the tank valve while driving.

USING A "GOPHER HOLE"

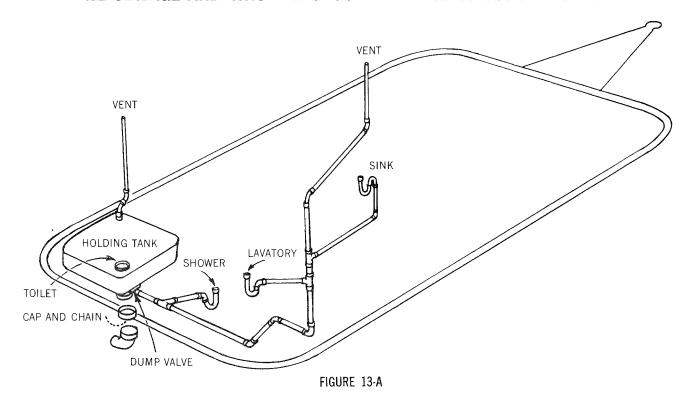
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will absorb most of the contents overnight and it will be much easier to fill in just prior to departure next morning. This will also enable you to dump your wash water in the gopher hole next morning.

Beware that rain surface runoff water does not drain into your gopher hole and cause overflow. Mound some dirt around the hole to avert this.

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THE TOILET

The toilet in your Airstream is a Thetford Slide-O-Matic, designed expressly for travel trailers. It is warranted for two years against defects in materials and workmanship.

The Thetford employs a completely new principle: a sliding, self-cleaning, positive-seal blade, which replaces the conventional clapper valve. Odors cannot escape from the holding tank into the interior of the trailer. No metal parts come in contact with the sewage; no mechanical adjustments are necessary; there are no cavities or clearance chambers to become fouled. The unit uses less than two quarts of water for automatic flush.

OPERATION

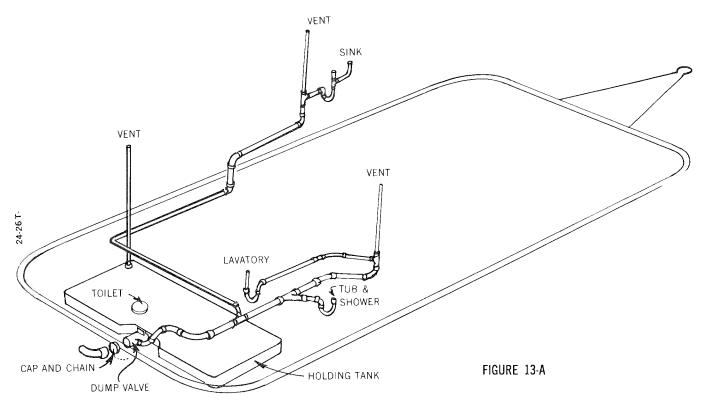
To operate, step on the foot pedal and hold it down until the inrush of water cleans the bowl. When pressure is removed from the pedal, the unit will automatically shut off and refill the bowl.

MAINTENANCE

Little or no maintenance is required. Once-a-year oiling of linkage bearings and shaft is recommended.

CHAPTER 13

THE SEWAGE AND WASTE DISPOSAL SYSTEM IN YOUR AIRSTREAM



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In an emergency you can empty waste water from the sink and lavatory into your waste holding tank instead of allowing it to run on to the ground (some state parks forbid letting sink and bath water run onto the ground although it is often done in the wilderness. To empty waste water into the waste holding tank, open the dump valve while keeping the Sewage Line Drain Cap on. Waste water will automatically back up into the tank. Note: Water conservation must be practiced when allowing waste water to drain into the waste holding tank since it will fill rapidly.

After you have been emptying waste water into the

waste holding tank in this manner, when you arrive at a waste disposal facility, close the tank dump valve, place a bucket under the tank outlet and remove the Sewage Drain Line Cover Cap in order to drain the section of pipe between the cap and the valve.

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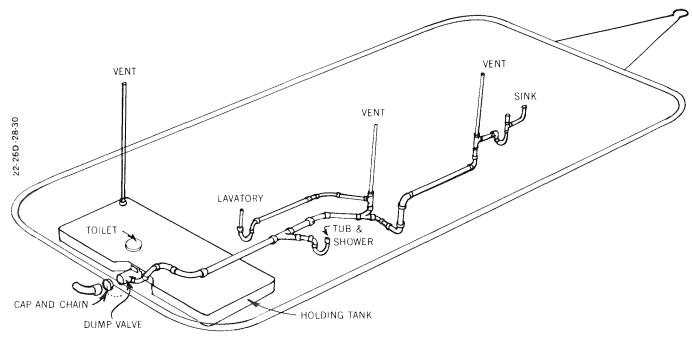


FIGURE 13-A

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MAINTENANCE

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EXTERIOR MAINTENANCE ON YOUR AIRSTREAM

Your Airstream has been protected by an acrylic lacquer finish applied at the factory. It will have on it an impervious film which should afford years of satisfactory service. As with any high quality finish, however, damage may occur if strong solvents or abrasive cleaners are used to remove road stains such as asphalt or insects. If use of solvents is necessary to remove these materials, the areas affected should be wiped with a good grade lacquer finish and touched up with a spray bomb of clear acrylic lacquer. If through the years the protective lacquer film is removed in extensive areas due to abrasion or highly corrosive atmospheres, a non-uniform appearance may result due to the differential oxidization of the underlying aluminum. Under these circumstances it is best to remove all lacquer with a good grade lacquer solvent and repolish the entire trailer as described below.

To keep your Airstream looking like new, it is important to keep the aluminum surface clean. Oils, greases, dust and dirt can be removed by washing with any mild non-abrasive soap or detergent such as those found around the house or those recommended for washing automotive finishes. (Automatic dishwasher detergents generally are too strong and should not be used). Under no circumstances should you attempt to use any of the acid etch cleaners that are available on the market as trailer cleaners. These are very dangerous for an amateur to use and, unless carefully handled, can be harmful to both the user and the trailer.

Cleaning solutions are best applied with a large sponge, soft cotton cloth or with a soft-to-medium bristle brush for stubborn spots. Cleaning should be followed by rinsing with clear water, taking care to rinse all detergent from cracks, grooves and crevices. Best results will be obtained by drying the surface with a chamois or soft cloth to prevent spotting or streaking. Always be careful to clean your Airstream in the shade or on a cloudy day and that the aluminum skin is not hot.

After cleaning and drying, a good grade of nonabrasive automotive paste or liquid wax will greatly increase the life of the finish, maintain a uniform overall appearance, protect the finish from minor scratches and abrasions, and make later cleaning and maintenance less frequent, less time consuming and less expensive. Wax coatings should normally be applied every three to six months. They are best applied by hand but a soft, light-pressure mechanical buffer can be used if great caution is taken. Even non-abrasive waxes may cause surface marks if heavily buffed with high-pressure mechanical buffing equipment. The life of the wax coating is dependent on the degree and severity of exposure and maintenance betwen waxings. To get the longest life from wax coatings, excess grime and soil should be washed as often as needed with clean, cool water and the surface dried with a damp chamois or cloth. A protective wax coating is particularly important in seaboard localities where the finish is exposed to salt air, and in industrial areas where the finish is exposed to industrial waste fallout.

It is important to remove sap, seeds, gum and resin as soon as possible after they appear by washing and rewaxing. Sunlight and time will bake harden these materials so they may become ingrained into the actual finish of the aluminum, making them almost impossible to remove without heavy buffing.

If your trailer becomes exposed to unusually severe and corrosive atmospheric or service conditions, or has received improper or little maintenance, the acrylic coating may be destroyed and the aluminum may oxidize. This oxidization appears either visibly, as a white powder in very small granules, or can be felt as a roughness on the surface. To clean your Airstream after oxidization has taken place, the following procedure is recommended:

- Wash your trailer with a good detergent using moderately hot water. Remove all dirt, mud and as much of the road asphalt as possible. 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.
- 2. Remove all traces of the acrylic coating with a good grade lacquer solvent.
- 3. Use a ready made aluminum cleaning preparation such as those designed for use on aircraft. One that has been found to be satisfactory is Met-All. Use a fairly large, soft cloth spread with some Met-All and rub lengthwise on the trailer or parallel with the grain of the aluminum (you will be able to determine the grain of the aluminum by looking closely at each

panel). Do one complete sheet or section at a time.

- 4. Continue to rub the Met-All paste on the sheet after it has picked up a black color, which indicates that oxidization is being removed. Do not allow the rag to become caked or hard. Use either a clean rag or keep turning the rag as long as it is usable. When a cake of oxidized aluminum paste develops it is possible, with continued rubbing, to scratch the metal surface.
- 5. After completing the instructions under paragraph 4, use a soft, clean cloth that has been dusted with ordinary white wheat flour and buff off by hand the excess material that has been left on the sheet. (For extremely tough jobs it may be necessary to do a complete job twice, except that the second time it is not

necessary to wash the trailer with detergent).

6. The use of a buffer is *not* recommended except in the hands of a thoroughly experienced person (if not expertly used, the buffer will leave a pattern on the aluminum surface.

Glass Wax (made by Johnson) has been found to be very useful in removing the last marks made in rubbing off the oxidization. After it is thoroughly clean, the entire surface should be rewaxed. Do not use Glass Wax if you plan to re-coat your Airstream with the clear acrylic lacquer.

Special care should be directed to the exposed portion of the trailer frame, where it extends to the bumper at the rear. This should be protected from oxidation with a coat of aluminum paint at least once a year, and twice a year in a salt-air atmosphere.

CHAPTER 15

INTERIOR MAINTENANCE

The interior of your Airstream is designed to be as trouble- and maintenance-free as is possible. Following these tips will help maintain the interior of your Airstream sparkling new:

INTERIOR WALL FINISH

The interior finish is of vinyl, with the exception of the front end, which is of Zolatone plastic. The roof locker doors are also finished in vinyl.

An occasional washing with mild soap is all that is ever necessary to maintain the Zolatone finish. Although soaps will not harm it, avoid using detergents, as they can cause it to dry and flake.

Vinyl is best cleaned with a liberal application of suds from a mild household detergent such as Tide, with a small amount of bleach (Clorox, for example) added to the water. A damp bristle brush can be used for scrubbing to loosen and remove the soil. The surface should lastly be rinsed with clear water and wiped dry.

Note: use of kerosene, naphtha, carbon tetrachloride, lighter fluid, Energene, etc. should be avoided. They can cause damage to the vinyl. Abrasives should also be avoided, as they can wear off the print on unprotected surfaces and dull the lustre.

INTERIOR WOODWORK

The interior wood in your trailer is lacquered for greatest durability and beauty. A cloth moistened with plain water is the best cleaning agent. DO NOT use alcohol or any petroleum-base solvents; they will attack the lacquer and mar the finish.

FLOORS

Vinyl asbestos floor tile should be cleaned with warm water and detergent, and coated with a good grade of clear wax such as Johnson's Paste Wax or Vista wax. Self-polishing liquid waxes may be used, but they do not wear as well.

DRAPES & UPHOLSTERY

When storing your trailer it is a good idea to protect the upholstery from fading rays of the sun by putting aluminum foil between the window and the screen. Drapes and upholstery should be dry cleaned only.

WORK SURFACES

The work surfaces in your Airstream are of melamine laminate; they resist alcohol, fruit stains, scratches, acid, household alkali and heat up to 275°F. Waxing will help preserve the luster. Never use abrasive cleaners or use the surface for slicing or cutting. Protect from hot vessels.

PLASTIC BASIN AND TUB

The lavatory basin and tub in your Airstream are made of special, long-wearing plastic for light weight, high strength, and long life. When cleaning, use soap or detergent only — never use scouring powder. Wright's Silver Cream is an ideal cleaner for the plastic lavatory and skirt.

WINTERIZING YOUR AIRSTREAM

It is important to guard against freezing damage to the hot and cold water systems, the waste drain system (including the traps), the waste-holding tank, and the water heater. To completely winterize your Airstream, follow this procedure:

- 1. Level the trailer from side to side and front to rear. Open all the faucets on the inside and remove the hand filler cap.
- 2. Open all drain valves. There are three: two are located in the One-Stop Service Center, and one is at the water storage tank in front of the trailer. (In the 17-foot and 20-foot models, there are only two valves. In the 17', one is in the storage area under the lavatory, and one is in the storage area under the lavatory, and one is at the storage tank.)
- 3. While the water is draining from the system, open and close the toilet flushing valve. There is great danger of freezing if water remains in this valve.
- 4. After water has stopped running from the drain lines at the rear of the trailer, apply air pressure to the hot water drain line with all drain valves and faucets still open. This will force any remaining water from the water heater.
- 5. Pour about a cup of kerosene into the lavatory

- and sink drains to prevent freezing of water in the traps; or, drain them completely. Do not use anti-freeze.
- 6. Pour about a cup of kerosene into the shower or tub drain trap. (There is no effective way of draining it.) Do not use anti-freeze in the trap.
- 7. Be sure to open the waste-holding tank drain valve and drain the tank thoroughly. (This is very important as the sewage in the tank, if frozen, could seriously damage the tank.)
- 8. Lower the front of the trailer as far as the jack will allow and see if the water will continue to drain. Then crank the jack up as high as it will go and let any remaining water drain out.
- 9. Open all faucets inside the trailer.
- 10. Remove the lower portion of the water purifier, if your trailer is so equipped, and drain the purifier.
- 11. Turn the water pump switch to the "Off" position.
- 12. Disconnect the Inlet and Outlet connections and turn the pump by hand until all water is expelled.
- 13. Make certain that the battery in your trailer is up to charge to prevent it from freezing, or remove it for storage where it cannot freeze.

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WINDOWS

The curved windows in your trailer are of tempered safety plate glass — the same type of glass used for the side and rear windows of automobiles. The tempering process makes the glass incredibly strong, and at the same time prevents it from injuring anyone if it should be broken. It can be shattered by a hard blow, but if this should happen, the glass tends to shatter into small, dull, harmless particles. No special care is required for these windows, and they may be cleaned with any good glass cleaner.

OPERATING INSTRUCTIONS

You will notice that all windows open outward. To open: rotate the two latches on the lower sill counter-clockwise, and turn the operator counter-clockwise. To close: turn the operator clockwise, then turn the latches clockwise until the window is secured.

The operator has built-in stops at both the full-open and full-closed positions.

MAINTENANCE

Window gaskets are of neoprene rubber and will give good service with minimum care. Clean the rubber with a damp cloth or mild detergent every 3 to 6 months. DO NOT USE STRONG SOLVENTS — they will damage the rubber. A coat of natural silicone lubricant rubber seal applied after the rubber has dried will keep it flexible. Spread the lubricant evenly with a brush or finger, working it in to the surface.

The storm window is made of tinted plastic, and should be cleaned with a mild detergent or window cleaner. CAUTION: solvents will damage the plastic.

REPLACEMENT

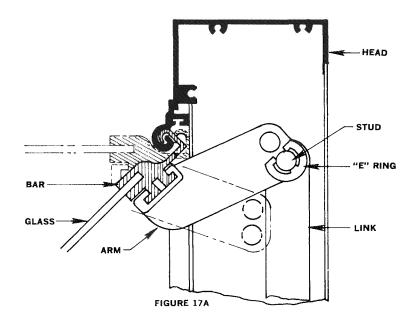
Should the window glass become broken, replacement glass can be ordered by part number. The name and number of each window is stamped on the sill, approximately 10 inches from the right-hand side as seen from inside the trailer. The replacement glass will have the glass bar, arm, and keepers (see Fig. 17-A) already assembled.

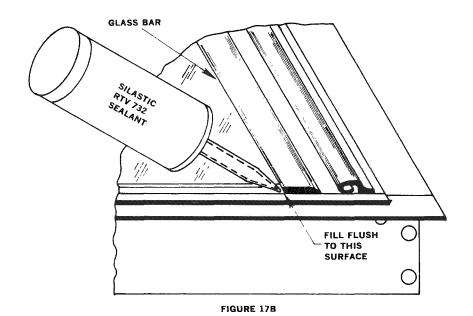
To remove the glass:

- 1. Open the window about half-way.
- 2. Remove the "E" ring at the top of the window (see Fig. 17-A).
- Push the link to the side of the window until the stud is free from the arm.
- 4. Rotate the glass bar and arm to a horizontal position.
- 5. Apply pressure from the outside toward the trailer to unhook the hinge.
- 6. Slide the bar down to clear the head, and pull out.
- Clean the seal and check for damage. Cuts in the seal may allow the window to leak; damaged seals should be replaced.

To install new glass:

- 1. Be sure the glass is centered in the glass bar. The bar should extend about ¼ inch beyond the glass on both sides.
- 2. Lubricate the rubber seal as described under Maintenance, making sure to lubricate the rubber under the head section with a brush.
- 3. Lubricate the hinge of the glass bar, using the same lubricant used on the rubber.
- 4. Reverse the removal procedure outlined above. CAUTION: do not force the glass closed; the hinge sections will be bent and the window will not function properly. When the hinge is hooked properly the glass will swing closed of its own weight.
- 5. Check the clearances between the sill, keeper, and latches.
- 6. Place the stud in the hole of the arm farthest from the glass.
- 7. After installation is complete, latch the window and fill the opening beside the glass and under the glass bar with RTV 732 (Dow-Corning Silastic sealant) using a hand caulking gun. Fill until the sealant can be seen flush with the glass bar. (Fig. 17-B)
- 8. Do not open the window for at least 24 hours.





THE RUNNING GEAR (AXLES, WHEELS, BRAKES) AND MAINTENANCE

MAINTENANCE GUIDE

Item	Every 1,000 Miles	Every 5,000 Miles	Every 10,000 Miles	Procedure
Battery	X			Check water level—fill with distilled water
Smoke Hood Fan	X		and the second section of the sectio	only. Clean blades
Smoke Hood Filter	Χ			Wash
Hitch Ball Latch	X	· · · · · · · · · · · · · · · · · · ·		Lubricate by coating with engine motor oil.
Hitch Jack	Х			Lubricate with light household oil (put oil can spout up under handle and allow oil to run down post.
Window Operators/Slide	X			Lubricate with light household oil.
LPG Hold Down Screw	Χ			Lubricate with light household oil.
Entrance Door Hinge	Χ			Lubricate with light household oil.
Roof Vent Elevator Screws	Χ			Lubricate with light household oil.
All Exterior Door Locks	X			Lubricate by shooting in dry graphite.
Strike pocket on Exterior Door	X			Coat with paraffin.
Wheel Bearings			X	Clean, repack, and adjust.
Brakes			Χ	Inspect and adjust.
Tires	X			Inspect for foreign objects. Check pres- sure (45 psi except the Caravel which is 40 psi).
Tires		X		Cross-switch.
Water Pump		X		Check for wear and proper tension.

Your Airstream is without a doubt the finest engineered travel trailer ever to be mass produced. Every step of the design and the choice of every component has been to give you thousands of miles of trouble-free operation. By following this minimum maintenance schedule you will enjoy all of the pleasure you dream of from your trailer... and more.

SEASONAL CHECK-UPS

Every fall and winter, and after any long storage, all of the gas appliances should be checked, cleaned and adjusted to insure safe and care-free operation. See chapters on individual appliances in this manual for maintenance procedures or have your Airstream dealer perform this "preventative maintenance" for you.

THE DURA-TORQUE AXLE IN YOUR AIRSTREAM

The Dura-Torque axle in your Airstream has been referred to by experienced trailerites as "the greatest thing that has happened to trailers since they invented the wheel." The Dura-Torque axle gives a much finer ride than the conventional axle and spring, and by elimination of the great number of parts, eliminates

sources of maintenance problems. The Dura-Torque axle is designed to last the life of your trailer without service except to the wheel bearings.

WARNING!

Under no circumstance, ever allow anyone to weld on the Dura-Torque axle (such as in mounting skids or welding in the area of the axle where the heat may be transferred to the axle). The heat generated by welding will destroy the rubber pads and cause failure of the axle.

One of the bonuses that result from having independent dura-torque suspension on tandem model Airstreams is the ease with which a flat tire may be changed. On a tandem trailer, to change one of the wheels it is necessary only to drive the remaining wheel on the same side up on a block about 4 inches thickness. The wheel with the flat tire will then clear the ground to a point where it is possible to remove it and replace it without the use of a jack. If a spare is not carried, it is quite possible to drive the unit for some distance on 3 wheels only.

THE KELSEY-HAYES ELECTRIC BRAKES ON YOUR AIRSTREAM

The Kelsey-Hayes 2-shoe adjustable brakes on your airstream are the finest electric brakes available on the market. They are operated by the 12-volt current on your car battery and can be hooked-up so that you have an integral system with your car brake.

The number one cause of trouble with trailer brakes is improper installation in the tow car. To prevent problems and insure satisfactory braking action it is necessary that you install a Kelsey-Hayes controller and a Kelsey-Hayes variable resistor in line with the brake controller in your car. Do not attempt to use any other brand.

Kelsey-Hayes publishes an excellent brake manual, a copy of which you will find in your trailer. It is suggested that you read it and follow the instructions completely.

To adjust your Kelsey-Hayes brakes is quite simple following this procedure:

- 1. Remove the small rubber plug at the base of the backing plate.
- 2. Use a brake-adjusting tool or a screwdriver that has been heated and bent to a 90° angle.
- 3. Jack the wheel up so you can spin it by hand; tighten the brakes, (using the previously mentioned tool) until the wheel is locked; back off until you have a free spinning wheel (which will be approximately 15 notches.)
- 4. Repeat this operation with all of the other wheels on your trailer.

THE TIRES ON YOUR AIRSTREAM

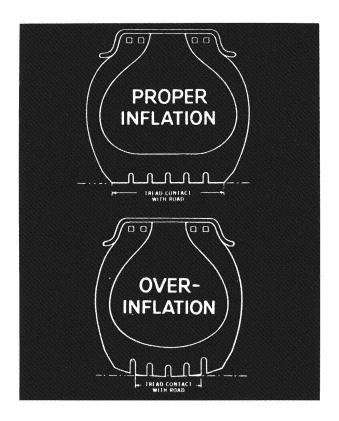
Your Airstream is equipped at the factory with Goodyear 7:00x15 travel trailer tires (Caravel has 6:70x15 tubeless). Your Airstream dealer cannot make adjustments on these tires—they can be made by any Goodyear dealer. It is suggested that you contact your Airstream dealer who maintains a stock of tires for your Airstream. When you are on the road, if you have any problems with your tires, check in the classified pages of the telephone directory for the nearest Goodyear dealer. The following rules will help you get top

performance and maximum life from your tires:

- 1. Always check air pressure in your tires before starting on a trip. Tires should be cool when checked. Be sure you maintain correct pressure when cool, but never "bleed" air out after you have been driving or when tires are hot. The tires are designed to compensate for the higher pressure that will be encountered as they are driven; "bleeding" air out could result in underinflation when they have cooled. The proper pressure for tires supplied with your Airstream (7:00 x 15) is 45 psi; (the 6:70 x 15 tires used on the Caravel use 40 psi.) Make sure valve cores and valve caps are tight to prevent loss of air. NOTE: Your Airstream tires are rated up to 60 psi and can be inflated to this pressure when the trailer is heavily loaded.
- 2. When parked between trips, maintain recommended air pressure in all tires at all times.
- 3. Whenever possible, park in shaded areas so that tires are not exposed to the direct rays of the sun.
- 4. If parking for extended periods of time, put your trailer on blocks so that tires do not touch the ground. If local parking regulations permit, and facilities are available, remove tires and store in dry, cool enclosure.

An over-inflated tire is weak and will wear more quickly than a properly inflated tire. When tires are over-inflated, a smaller portion of the tread is in contact with the road, reducing its ability to absorb road shocks and inviting blowouts.

Under-inflation always causes rapid tread wear and often causes premature failure. In under-inflation, as in over-inflation, only part of the tread is in contact with the road. (see illustration). Tires will wear abnormally and rapidly, with most of the wear taking place on the outer edges of the tread. Excessive heat builds up in under-inflated tires causing structural damage to the tire with the resultant danger of failure. The tires on your Airstream should be rotated regularly every 5,000 miles. If you carry a spare include the spare in the rotation. See illustration for recommended switching procedure.



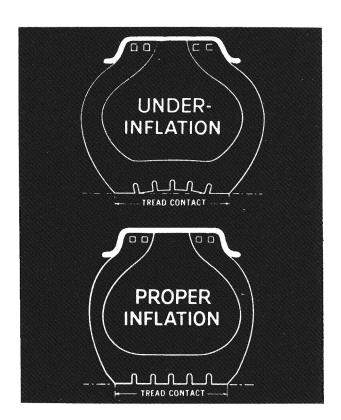
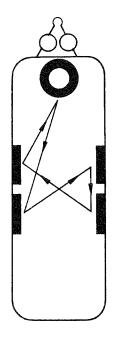
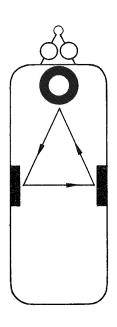


FIGURE 18-A FIGURE 18-B

FIGURE 18-C





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