AVION TRAVEL TRAILER OPERATION AND SERVICE MANUAL

THIS BOOKLET CONTAINS YOUR AVION GUARANTEE

(INSIDE OF FRONT COVER)



KEEP THIS BOOK WITH YOUR AVION AT ALL TIMES

AVION COACH CORP. 1300 E. EMPIRE AVE., BENTON HARBOR, MICHIGAN



Avion Coach Corporation agrees to repair free of charge any defect in material or workmanship directly chargeable to any neglect on the part of Avion Coach Corporation.

This parantee is issued and applies to Avion Coach Serial No.

and to the original owner of said coach.

This guarantee does not cover brakes, axlo, toilet, stove, refrigerator, air conditioner, water heater, tires, space heater, air compressor, or exterior coating. Most of this equipment is covered by a warranty of its manufacturer.

All repairs to be made by Avion Coach Corporation will be made at their factory. Appointments for such work must be made in advance. Owners must arrange for delivery to and from factory at his own expense.

This guarantee does not cover damage caused by collision, negligence, act of God, riots or improper use.

Avion Coach Corporation will not pay for service obtained outside the factory.

For service under the terms of the warranty for the various appliances or equipment in your Avion it is necessary that you contact an authorized service company of the appliance or equipment involved.

A list of these authorized service companies is provided for your convenience at the back of this booklet.

Refer to your serial number whenever calling or writing for service information.

Dealar's Name
Original Owner's Name

IMPORTANT

The 2 5/16 in. Hitch Ball should be mounted on your car so that the top of the ball is 20 in. from the ground. At this height and with an equalizer type hitch properly adjusted your Avion will ride level. With a single axle trailer it is not necessary that the trailer ride perfectly level to tow properly. We recommend that the trailer and car ride level for appearance sake.

With a tandem axle trailer it is absolutely necessary that the trailer ride level so that each axle will carry the same load. If the trailer is not level you will experience a "fish tailing" or swaying while traveling.

The wheel bearings should be packed with grease every 10,000 miles.

Tire pressure should be 45 lbs. in a 7.00×15 6 ply tire, 60 lbs. in a 7.00×15 8 ply tire and 75 lbs. in a 7.50×15 10 ply tire.

You must produce a defective tire for inspection if you expect to get an adjustment from your Armstrong distributor. Do not throw a defective tire away until such inspection has been made.

Do not travel with a sewer hose connection (elbow or nipple) inserted in the drain manifold of the trailer. Serious damage to the drain system or toilet installation may result if the sewer hose connection is not removed for this hose connection will scrape the pavement when entering or leaving a gas station or similar entrances.

GENERAL PROCEDURE FOR "HOOKING-UP" BEFORE A TRIP

The following steps are suggested as a check list before starting on your trip with your Avion Coach.

- 1. See that all clothing, dishes, golf clubs, fishing gear etc. are properly stored. Heavy gear should be located near the floor and as near to the center of the Trailer as possible. It is wise to use square plastic containers in your refrigerator. DON'T leave ice cubes in the freezer compartment, unless your refrigerator has an ice water drain hose or is gas operated, while traveling. Pack rolled towels in front of containers in refrigerator so they won't move about or spill over. Unless you plan extended stays, far off the beaten path, there is no need to store up on food.
- 2. Be sure all drawers, cupboards, and closet doors are securely latched. The drawers in your Avion Coach are notched on the bottom slide edge, this notch prevents the drawers from opening while traveling. It is important that you form the habit of lifting and pulling as you open a drawer.
- 3. Radio, television, books folding chairs, etc. should NOT be placed on top of beds while traveling. The jiggling of the mattress and springs has a tendency of moving everything forward and if you use a quick brake this will throw everything off the beds onto the floor. Place radios, t.v., vases, etc. in boxes, pack carefully and place on floor in center of trailer.
- 4. If your utilities are hooked up, disconnect electric at the meter and then at trailer, flush toilet and if your trailer does not have a pressure water system open all faucets to drain water system. If your trailer has a pressure water system see instructions in this booklet for filling, draining, and proper use of pressure water system. Disconnect sewer and water hose and store after they are completely drained.
- 5. Close all windows, ventilators, and lock exterior door. At times while traveling on extremely dusty roads, it is advisable to leave the front roof vent open slightly. This has a tendency to create an air pressure inside of the trailer and prevents dust from filtering into the trailer.

- 6. Remove stabilizing jacks or blocks from under the coach, (stabilizing jacks for Avion Coaches should be placed under the frame at the front and rear of trailer. CAUTION-DO NOT place stabilizing jacks or blocks under aluminum under-belly skin.
- 7. Hook-Up. Raise the front of the coach with the post jack, have your partner back the car into place. We find the best system of signals to be, "clock-wise" or "anti-clockwise and about two feet, now about two inches" and so on, until the car is in position.

 Lower the front end of the coach so that the ball and socket are together. Move the car back and forth a little to be sure they are together, then put the ball lock in place. It is important to secure this lock by placing a small lock or pin through the eyelets back of the latch. Jack the front of the coach up again (the car will come up with it) and put on the hitch and adjust for straight line in both units. Lower the coach onto the hitch. Hook-up the electric connection from car to coach. Hook-up safety chain. It is advisable to use an equalizer type hitch. Make all adjustments according to hitch manufacturers instructions.
- 8. Butane tanks should be shut off while traveling.
- 9. Check brakes and lites.
- Re-check all previous steps and be sure you leave your parking area clean.

This information is general and normally may prove helpful to the novice trailerite. Most experienced Trailer Travelers have their own pet way of doing most of these steps.

IMPORTANT INSTRUCTIONS FOR WINTERIZING YOUR AVION

- 1. Level the coach.
- 2. Open the petcock on the inlet faucet on outside of coach.
- 3. Open all faucets on the inside of the coach.
- 4. Open the valve in the line from the water heater through the floor of the trailer to drain the water heater tank (there are two of these valves on a double bed model also at the water heater).
- Open the bowl filler valve on the toilet and hold open for 15 to 20 seconds. It is most important that you drain this valve.
- Drain the water from the toilet bowl by pushing down on the foot lever.
- 7. If your coach is equipped with a septic tank, open the septic tank valve. Fill the toilet bowl and release with foot lever. Follow this procedure two or three times to thoroughly flush the septic tank.
- 8. Raise the front end of the trailer as high as it will go by cranking the jack all the way up and allow to drain, then crank jack to lowest position and allow to drain. Return to level position.
- 9. Pour about one (1) cup of clear alcohol, or anti-freeze in each of the three traps--one in the kitchen sink, one in the bathroom sink, and one in the bathtub, using caution not to spill any on plastic bath tub where discoloration may take place.
- 10. CAUTION--before traveling, you should either flush out the bathtub drain, or place the plug in position and tape down, so that the alcohol will not splatter on the tub.
- If your coach is equipped with a water tank you can blow the lines out by putting 75 lbs. of pressure in the tank and opening the drain valves and faucets one at a time. However, this procedure should not be necessary but may be done for additional protection.

CARE OF THE EXTERIOR

If you should travel with your coach on roads that were chlorided or salted to melt ice, it is suggested that the chloride be washed off of the trailer as soon as possible.

A very light wiping with a soft cloth with a straight back and forth motion while hosing will remove the chloride, which if left on will cause discoloration.

The use of a mild soap or detergent will aid in the removal of road film.

TIRES

Your Avion is equipped with Armstrong Nylon Tires. These are rated to carry the weight of your Avion plus ample allowance for clothes, dishes and personal items. For maximum load carrying capacity, your tires should be inflated to 45 lbs. in a 7.00 x 15 6 ply; 60 lbs. in a 7.00 x 15 8 ply; and 75 lbs. in a 7.50 x 15 10 ply. If you should require an adjustment on a faulty or defective tire secure the name of your nearest Armstrong distributor from the list in the back of this book. Take the defective tire to the distributor and he will make an adjustment according to the terms and conditions of the Armstrong guarantee.

FINISH OF WOODWORK



The wood in your Avion is of the highest quality clear white pine and birch plywood. If you should wish to do some cabinet refinishing in your Avion the finish may be matched by using the following process:

Pratt and Lambert butternut stain is applied, left to penetrate for ½ hour, then wiped off. After the stain has dried for about three hours shellac is applied by brush. When the shellac is thoroughly dry it is sanded lightly with a very fine sand paper. The final finish is achieved by applying a coat of satin finish varnish with a brush and left to dry.

RADIANT SPACE HEATER

If your Avion is equipped with a space heater it is installed according to the recommendations of the manufacturer. The lighting instructions are located inside the louvered door at the bottom of the heater. The heater has been tested and adjusted at the Avion plant after installation.

A list of gas service centers is supplied in the back of this book, for your convenience, should your gas space heater need servicing.

WATER HEATERS

BOWEN ELECTRIC

If your coach is equipped with an electric water heater it will be a Bowen electric water heater.

A heater switch with a warning light is installed in each Avion that is supplied with an electric water heater. When the light is on the water heater is on. DO NOT leave the heater turned on unless you have a water supply to the heater (either a hose supply or a pressure water system supply).

If your coach is equipped with a Bowen Gas Water Heater it will be located under the bed on the left side of the trailer in a twin bed model or on the right under the bed in a double bed model. To light the heater you must remove the lower panel of the heater on the outside of the Coach. This panel may be removed by turning the two (2) screws at the bottom edge of the panel. Open the gas shut off valve in the lower left corner and follow the instructions for lighting as listed on the tag inside of the heater.

For service under the terms of the Bowen warranty contact one of the authorized Bowen Service Centers as listed in the back of this book.

MARINE STOOL

If your coach is equipped with a Swirl-o-Matic marine stool, parts may be obtained by writing to:

Saniware 1000 East 60th Street Los Angeles 1, California

PRESSURE WATER SYSTEM

If your coach is equipped with a pressure water system you can fill this tank the two different ways listed below:

- l. Apply one end of a hose to the hose connection on the trailer (left front underneath) and the other end of hose to a pressure water supply. Make sure all faucets in the trailer are closed and open the valve on the trailer where the hose is connected. Open the hot water tap on the kitchen sink, the valve on the trailer and on the supply. When water starts to flow out of the hot water faucet at the kitchen sink in a steady stream close the faucet and allow the water to run into the tank until it stops running. Close the valve on the trailer and at the supply, remove the hose. You will have a tank 3/4 full of water under pressure equal to that of the supply source.
- 2. The second method of filling the tank is as follows: Remove the cap on the filler spout and pour water in until it overflows. Close all faucets in the trailer, replace the filler spout cap and put pressure in the tank by using a hand pump or a service station air supply hose. We recommend a maximum of 60 lbs. pressure-10 to 15 lbs. is ample to supply water at all faucets. The air valve will be found on the filler spout.

RANGES

If your coach is equipped with a Princess range you will find lighting instructions attached. Follow the instructions as listed when using your burners or oven for the first time.

For service on your Princes range contact Pan Pacific Manufacturing Corporation, 2053 East 38th Street, Los Angeles 58, California.

DIXIE

If your coach is equipped with a Dixie range you will find an instruction booklet in the oven.

For service contact Dixie Products, Inc. at Cleveland, Tennessee. Phone Greenwood 6-8526 and they will refer you to an authorized service center.

REFRIGERATORS

GENERAL ELECTRIC REFRIGERATOR

In the back of this book you will find a special warranty certificate for General Electric appliances installed in Avion Trailers. If your coach is equipped with a General Electric Refrigerator and you should require service, present your warranty to any major General Electric Dealer, who will give you service according to the terms of the warranty.

There is a warranty card in the refrigerator which should be filled out and mailed: also you will find a use and service manual in the refrigerator for your convenience.

NORCOLD GAS AND GAS-ELECTRIC REFRIGERATOR

If your coach is equipped with a Norcold refrigerator you will find the lighting instructions in the crisper tray. Before attempting to light the gas burner be sure that the gas heat distributor tube is installed in the proper place. If you wish to operate the unit on electricity be sure that the electric heating element is in place. For proper placement refer to the picture instructions in the refrigerator. When lighting hold the match under the zip tube going back to the main burner.

For gas operation be sure that the gas value to the right of the gas thermostat control is turned open. It is very important that the refrigerator be level in all directions for proper operation.

During hot weather do not turn the thermostat to highest position. If the unit is turned on high in hot weather it will freeze and then begin to defrost and will not freeze again until it is turned off and the unit is allowed to cool.

The thermostat should be set on medium during hot weather.

When a gas tank is going empty your refrigerator might not freeze properly, this is due to a lack of pressure. Your gas burner will be operating but not with a sufficient heat to operate the refrigerating unit properly.

For service of your Norcold refrigerator refer to the list in the back of this book or contact Norcold, Inc., 16200 S. Maple Avenue, P.O. Box 250, Gardena, California.

SEPTIC TANK

If your trailer is equipped with Avion fiber glass sewage waste storage tank, please follow these recommendations for using same.

To retain waste (from toilet only) close the holding tank valve. This valve is located at the sewer outlet at the rear left, up against the floor of the trailer. It is operated as follows: To close the valve push the small black knob forward (toward the front of the trailer) as far as it will go. Twist the black knob clockwise until it becomes tight. The valve is now in a closed position. To open the valve twist the black knob several turns in a counter-clockwise direction and pull back. It should pull back about 4". It is now in an open position.

Only the waste from the stool goes into your sewage storage tank. It is recommended that this tank be given a rinsing as often as possible. When in park with water and sewer connections, run water into toilet bowl and keep flushing with pedal in down position.

The waste water from shower and sink drains does not go into the septic tank.

OGDEN WATER PURIFIER

If your coach is equipped with a water purifier it will be located to the left in back of the kitchen sink. This purifier is designed to remove harmful bacteria, odor, and impurities from your drinking water.

The replacement packs are available direct from Western Ogden Purifier Co. at 7906 Santa Monica Blvd., Hollywood 46, California or from the Avion Coach Corporation.

The filter should be changed when the water begins to run slowly from the filter unit.

This replacement pack is #SM 1 and is for the AL water purifier. Instructions for changing the pack will be in each replacement pack box.

12 VOLT SYSTEM

If your Avion is equipped with a 12 volt lighting system, you will find the following equipment: A 12 volt battery in a fiber glass case mounted on the front of the trailer directly behind the gas bottles, a 12 volt -- 110 volt combination fixture over the sofa or dinette, a 12 volt fixture over the sink, a 12 volt fixture in the bedroom area, a 12 volt fuse box inside under the front window.

The battery box will have a heavy cable extending from within the box to the front of the coach for the purpose of connecting the battery to your automobile voltage regulator. The instructions for making this connection will be found on the inside of the battery case cover. You may expect to get approximately 15 hours of 50 watt lighting from a fully charged battery.

It is suggested that you unplug the trailer from the car when you expect to use the 12 volt system to eliminate the possibility of drawing the car battery down. About 100 miles of driving will charge your trailer battery from very low to full charge if the wiring of the car is according to instruction. It is very important that you use a #8 stranded wire from voltage regulator to plug at the back of the car for a charging wire.

BRAKES

Your coach is equipped with Kelsey-Hayes Brakes (unless hydraulic). These brakes are 2 inches by 12 inches. A brake service-data booklet is placed in the back of this booklet for your convenience. Contact an authorized service center to insure service under the terms of the Kelsey-Hayes Warranty.

If your coach has hydraulic brakes, they will be Stromberg hydraulic brakes. For service on the Stromberg hydraulic brakes contact The Stromberg Hydraulic Brake and Coupling Co. at 5453 Northwest Highway, Chicago 30, Illinois. The telephone number of this company is NEwcastle 1-7712.

12 VOLT COMPRESSOR

If your coach is equipped with an air compressor for the water system it will be located in front at one end of the water tank.

This compressor will keep the pressure in your water supply tank between 20 and 40 lbs. An on-off switch will be located above the water tank at the front of the coach.

For service information contact Grover Products Co., 1233 So. Hope St., Los Angeles, 15, California. Phone Richmond 9-7633.

10

ARMSTRONG RUBBER COMPANY WAREHOUSES

6303 Georgia Avenue, N.W. Bell and Whitman Streets 1816 West Fillmore 815 Broadway 1046 Market Street 299 Brannan Street 701 North College Avenue 505 North Myrtle Avenue 212 South West 12th Avenue 1254 Murphy Avenue, S.W. 1808 West Ogden Avenue 12th and Capitol 1632 West Market Street 218 Forest Avenue 1305 Boylston Street 219 West Superior Street 500 South 11th Street 703 East South Street 966 Mulberry Street 1501 8th Avenue, North 490 North Virginia 3520 William Street 76 Young Street 649 Hudson Street 121 Grove Street 112 East Park Avenue Gay and Grant Streets 1711 South Quannah Street 900 South West Thirteenth Ave. 1320-22 North Fifth Street 28th and Smallman Streets 1417-21 Church Street 150 West Georgia Avenue P.O. Box 2456 901 Texas Avenue P.O. Box 9624 6th and Jones Street 1130 South Main Street 7300 E. Marginal Way 207 Virginia Street West 1626 West Fond Dulac 431 West Main Street

Washington, D.C. Montgomery, Alabama Phoenix, Arizona Little Rock, Arkansas San Diego, California San Francisco, California Fort Collins, Colorado Jacksonville, Florida Miami, Florida Atlanta, Georgia Chicago, Illinois Indianapolis, Indiana Louisville, Kentucky Portland, Maine Boston, Massachusetts Alma, Michigan Minneapolis, Minnesota Jackson, Mississippi Kansas City, Missouri Great Falls, Montana Reon, Nevada Albuquerque, New Mexico Buffalo, New York New York City, New York White Plains, New York Charlotte, North Carolina Columbus, Ohio Tulsa, Oklahoma Portland, Oregon Philadelphia, Pennsylvania Pittsburgh, Pennsylvania Nashville, Tennessee Memphis, Tennessee San Antonio, Texas El Paso, Texas Houston 15, Texas Fort Worth, Texas Salt Lake City, Utah Seattle, Washington Charleston, West Virginia Milwaukee, Wisconsin Madison, Wisconsin

NORCOLD REFRIGERATOR SERVICE COMPANIES

ARIZONA: PHONE Fannine Gas & Equipment, 1891 W. Roosevelt St., Phoenix Les Evans Refrigeration Co., 1901 Granada, Phoenix AL 35658 CALIFORNIA: San Luis Butane Distributors, Atascadero Gas Equipment Service 4020 Rosedale, Bakersfield Rands Trailer Sales, 124 Union, Bakersfield Fairview 26600 Petrolane, Bishop Mountain Liquid Gas Co., 455 So. Main St., Bishop Fitzpatrick Trailer Service, 1022 W. Burbank Blvd., Burbank Blue Star Gas Co., Garberville Mel Smith, 508 West St., Healdsbury Wolschlag Mt. Center, Hurkey Creek Maco Gas Co., 633 Victor Road, Lodi Handy Trailer Supply, 6138 Long Beach Blvd., Long Beach Fred Harrington, POBox 1506, Modesto American Butane Co., Oxnard Lambert 20739 A & D Refrigeration, 67-958 Hiway 111, Palm Springs Lassen Gas Co., Redding Eureka Gas Co., 4253 Sierra Way, San Bernardino
McGlashen's Gas Appl. Service, 320 W. Carrillo, Santa Barbara
Bill Lovewell, 4682 Troy Lane, San Diego-La Mesa
Bob Nietz Trl. Sales, 14855 E. 14th St., San Leandro
Maco Gas Co., Sonora

Jeff 24321
Trailer City, 2500 Springs Rd., Vallejo

(415) Mid 3345 (415) Mid 33456 BuPane Gas Service, Victorville 593661 COLORADO: Nafajo Butane, E. Main St., Cortez Independent Gas Service Inc., 248 Detroit St., Denver Household Gas Co., Craig Hinkle, 2863 North Avenue, Grand Junction Cummings Gas Co., Montrose DELAWARE: Suburban Shor Gas, Rehoboth Beach FLORIDA: Benny Youngblood, 4500 N.W. 12th Ave., Fort Lauderdale Mk Trailer Service, 1234 N.W. 79th St. Miami Horns Refrigeration, Jacksonville Lake City Fuel Co., 606 Donnelly, Mt. Dora Courtney Gas Co., Madeore St., St. Augustine IDAHO: Idaho Gas Co., W. Main St., Jerome Nampa Trailer Center, W. Highway 30, Nampa ILLINOIS: Drake Bottled Gas Inc., Rt. #52, Manhattan Rd., Joliet Uregas, Quincy INDIANA: Holden Butane Gas Service, Linton Mfg. Whse. Elkhart 32205 Norco Oil Co., 117 S. Main, Cheboygan

NORCOLD SERVICE COMPANIES CONTINUED

MINNESOTA: PHONE ng Gas Co., 2nd & Rice, Blue Earth Minnesota Butane Co., Lewiston MISSOURI: Burtay Gas Co., Appleton City S & S Gas Repair Service, Joplin NEVADA: Propane Sales & Service, 2551 N. Main, Las Vegas Washoe Propane Gas, 720 Glendale, Reno NEW MEXICO: Butane Gas & Appliance Co., 8009 Central Ave., Albuquerque NORTH CAROLINA: Southeast Butane Co., Lumber Bridge OKLAHOMA: Gains Butane Co., 701 W. 8th Okmulgee Geo. Shimoneck Plumbing Co., Pawhuska Consumers Gas Corp., 642 Franklin, Bend Gas Appliance Spec., Inc., 1612 N.W. 23rd Ave., Portland Heierman & Janes Propane Service, 215-6th St., Redmond RHODE ISLAND: Kallahar Gas Service, 111 Freight St., Pawtucket TEXAS: Glanigans Trailer Sales, 3601 Telephone Rd., Houston Texas Mobile Homes, Amarillo Drake 40277 UTAH: LaFrentz Liquid Gas Co., Cedar City Foster Instrument Service, 825 E. 2nd S., Salt Lake City Springer Trailer Sales, Salt Lake City Tagges, 854 So. Main, Salt Lake City WASHINGTON: Fidalgo Gas Co., 2420 Commercial Ave., Anacortes Far West Gas Appliance, 807 Forks Ave., South, Forkes McGinnis Marine Service, 1435 East Northlake, Seattle Hawley Trailer Service, 4605 E. Sprague, Spokane Monte Vista Trailers, 8328 So. Tacoma Way, Tacoma WYOMING:

Mr. Floyd Von Der Scher, Technical Manager for Norco, Incorporated, has held service clinics in each of the TCA Service Clinics and is on the staff of this school.

When any service is needed, we of Norco appreciate and welcome the opportunity to render help regardless where the customer may be.

Butane Power & Equipment Co., Casper

SPACE HEATER SERVICE STATIONS

ARIZONA

Gless and Son Air Conditioning, 2425 East Winston Drive, Phoenix Ted Walker's Trailer Headquarters, Inc., 2632 Sixth Ave., Tucson

Hill's Trailer Park and Sales, 3101 So. Towson Ave., Fort Smith Fine-Nest Trailer Colony, Inc., 2502 E. Broadway, No.LittleRock

A-1 Trailer Supply, 1128 El Camino Real, Mountain View Harold Fisher's Plumbing, 1424 Broadway, Eureka Mitchell Trailer Sales, 5690 Redwood Highway North, Santa Rosa Orange Coast Trailer Supply, 2110 Newport Boulevard, CostaMesa James F. Thomas Heating Service, 6516 Whittier Blvd., LosAngeles Hardy's Fix-it Shop, 7293 University, La Mesa California Trailer Supply, 1719 West Capitol Blvd., W.Sacramento Deonel Tr. & Htg. Service, 836 Hurlingame Ave., Redwood City Lamb's Trlr. Supply, 3121 E. Ave. "T", Lancaster Trailer Coach Equip. Co., 67-853 Highway 111, Palm Springs Trailer House Repair Co.. 1645 "G" Street, Fresno Trailer House Repair Co., 1645 "G" Street, Fresno Mr. Walt Hansen, 15744 Maubert, San Leandro, Turner Trailer Service, 18584 Valley Boulevard, Bloomington

COLORADO

Aurora Trailer Supply, 1490 Iola, Aurora Colorado Trailer Supply Co., 1729 So. Nevada Ave., Colorado Springs

Denver Trailer Supply Co., 1740 So. Broadway, Denver Western Neon, 456 North Avenue, Grand Junction

DELAWARE

Alfred B. Layton, Inc., 306 Middleford Road, Seaford S & S Mobile Home Supply, 241 So. Dupont Parkway, New Castle FLORIDA

Douglas E. Clarke, POBox 3085, Daytona Beach Shinn's Heating Service, 2677 Martin, Sarasota Panama City Trailer Sales, U.S. 98 West at Mich., Panama City Dryander Bottled Gas Service, 5475 Orange Blossom Trail, Orlando Anderson Trailer Sales, Inc., 3825 Navy Boulevard, Pensacola Harvey's Mobile Home Repairs, 4003 So. Westshore Blvd., Tampa IDAHO

Armstrong Heating Company, 798 North Higbee, Idaho Falls Trader Horn Tr. Sales, Inc., 412 Addison Ave. West, Twin Falls

Charles M. Wilson, 2121 College Boulevard, Boise

ILLINOIS Dixie Mobile Home Sales, Inc. 2601 No. Vermilion, Danville Bill's Mobile Home Sales, Inc. 4114 Eleventh St., Rockford Wib L. Mager Supply Co., Inc., 500 So. Third St., Belleville Park Mobile Home Service, Route 2-Box 512, Waukegan Mobile Home Service, 125 West Pershing, Decatur Carlson Heating Service, 870 Monmouth Boulevard, Galesburg

Mobile Home Service Company, R.R. 2 - Box 144, Elwood James C. Miller, 525 Hayes Street, W. Lafayette Ray's Heating and App. Service, 1520 U.S. 33 West, Goshen A. Gunn Haydon, Inc., 217 North Main, Rushville

SPACE HEATER SERVICE STATIONS CONTINUED

INDIANA CONTINUED

U. S. 24 Mobile Homes, Roanoke, Indiana Proctor Heating Service, 352 East Main Street, Peru Miller Furnace Company, 1218 North Alton, Indianapolis Mobil Home Service, 2646 Dombey Road, East Gary,

J-B Trailer Service, 755 26 Street, Marion
Pett Trailer Service, 3622 Fifth Street, Des Moines
Gil-Mar Company, Box 2544 - Station "A", Waterloo
George C. Willis Company, R#1 - Highway 67, Bettendorf

Schippert Trailer Sales, Inc., 122 East Walnut, Junction City Todd Mobile Home Supply, 4215 South Broadway, Wichita L. T. Harris Company, Inc., 802 Mass. Street, Lawrence Lorenson Trailer Sales, 1804 South Broadway, Salina Memory Lane Mobile Homes, 601 West 57 Street, Topeka Home Appliance Company, Inc., 1910-1912 Broadway, Great Bend

Mobile Home Repair Service, Mounted Route B, Bangor, Veazie

The Custom Coach Company, 8332 Pulaski, Highway 1, Baltimore MICHIGAN

Knoll Furnace Service, 303 West Jackson, Battle Creek
B & M Heating Company, 121 So. Hamilton St., Saginaw
John M. Wiessner, 822 Cobb, Kalamazoo, Michigan
Ray Hemsteger, 14494 East 8 Mile Road, Detroit
Trailer Rental Service, 661 24 Street, Port Huron
Don's Trailer Service, 3730 North East Street, Lansing
Frank Boughton Mobile Homes, 1701 West Washington, Jackson
Wolverine Trailer Supply, G6255 North Saginaw, Mount Morris
Friendly Heating Company, 2197 Territorial Road, Benton Harbor
Thomas Heating & Cooling, Inc., 4838 Divison,, Grand Rapids
Crystal Downs Mobile Haven, Route 2-Box 276, Whitehall
MINNESOTA

Mobile Home App. Service, 3456 Minnehaha Ave., Minneapolis Hynnek's Mobile Home Repair, 4350 LaVaque Road, Duluth MISSOURI

Trailer Repair Service Mobile, Inc. 2201 Indiana, Kansas City Byerly Trailer Service, 11601 Manchester Road, Kirkwood Dulle Gas Service Company, 205 Ridgeway, Columbia General Supply Company, Post Office Bex 467, Waynesville Springfield Mobile Homes, 1632 East Carney, Springfield Stanley Heating Service, 6218 King Hill Avenue, St. Joseph

Marketing Specialties, Post Office Box 141, Billings
Leflers Custom Heating, 545 West Front Street, Missoula
J. J. Klabunde, Box 748, Havre, Montana
A and G, Inc., 1100 Tenth Avenue, Great Falls, Montana
Butte Stove Repair Company, 123 East Park Street, Butte
Manufacturers Mobile Home Heating Service, Gen. Del., Kalispell
NEBRASKA

A. C. Nelsen Company, 2112 Harney Street, Omaha, Mobile Home Supply & Service, 149 West "O" Street, Lincoln Roush Mobile Homes, Route 2, Grand Island

SPACE HEATER SERVICE STATIONS CONTINUED

NEVADA

Stewart Trailer Repair & Supply, 145 Grove Street, Reno Lomker Trailer Service, 451 North Eleventh St., Las Vegas NEW HAMPSHIRE

Mobilehome Maintenance, 7 Dunbar Terrace, Salem Depot, NEW JERSEY

Mr. John Benovic, Post Office Box 434, Linden

NEW MEXICO

Albuquerque Trailer Supply, 119 Texas, N.E., Albuquerque, NEW YORK

Curtis A. Sliker Company, Box 104, Leicester
Bob's Trailer Service, 20 Spruce Street, Albany
Ken's Mobile Home Service, 276 Manchester Road, Poughkeepsie
Northern Trl.Parts & Service, 86 U.S. Avenue, Plattsburgh
R. G. Hand, 600 North Broadway, Amityville, L.I.
Leonard Mobile Homes, Inc., Main Street, Mexico
Sayville Town Service Station, Inc., 160 Lakeland Ave., Sayville
Charles Awad Trailer Sales, 3026-29 Grand Central Ave., Horse-

Ahlberg Mobile Homes, 1447 Chenango St., M.R.97, Binghampton NORTH CAROLINA

Fortune's Paint and Hdwe. Co., Inc., 727 Haywood Rd., Asheville O'Neil Electric Co., Inc., 1892 West Main, Washington NORTH DAKOTA

Tri-State Repair & Accessories, Box 332, West Fargo T. E. Clark, 803 Seventh, S.E., Jamestown, North Dakota OHIO

Best Mobile Home Supply, 615 Horseshoe Drive, Sandusky Cliff Mobile Home Service, 1798 Akron-Peninsula Rd., Akron Smitty's Trailer Sales & Service, 5345 Dixie Drive, Dayton Post Industries, 1950 Korbel Avenue, Columbus Post Industries 2825 Columbus Avenue, Springfield Coleman Sales & Service, 4533 Monroe Street, Toledo Maple Heights Heating, Inc., 21310 Gardenview Drive, MapleHeights Canton Trailer Company, 1701 Gambrinus Avenue, Canton Stein's Repair Service, 704 Maple Street, Wapakoneta Adams Heating Service, 1140 Markley Avenue, Cincinnati

Ed Babcock Mobile Home Repair, 27 Northeast 47 St., OklahomaCity Trailer Parts, 5544 East Admiral, Tulsa,

Eugene Trailer Sales, 1930 Empire Park Drive, Eugene Coleman Sales and Service, 1143 South Stark, Portland Peyton and Company, Inc., 835 Market Street, Klamath Falls Haggs Trailer Sales, Box 183, Umatilla Haggs Trailer Sales, Box 861, Baker

Gib's Trailer Service, Box 811, North Bend R. A. Twiss Plumbing & Htg., 506 East Second St., The Dalles PENNSYLVANIA

George X. Adams, Inc., 1117 Bridge St., New Cumberland Haines Tr. Sales & Service, 116 Lincoln Highway, Fairless Hills Twin Trailer Sales, 240 Route 18, Sharon

SPACE HEATER SERVICE STATIONS CONTINUED

PENNSYLVANIA CONTINUED

Boulevard Mobile Home Sales, 95 McCarragher, Wilkes Barre Spidel's Oil Burner Service, 389 East King, Chambersburg Kramer Trailer Sales, 1135 Union Boulevard, Allentown Twin Trailer Sales, 8th and Latimer Streets, Ambridge Riverside Trailer Supply, R. D. 3, Lewistown, Pennsylvania Tomlinson Trailer Sales, R#30-Opposite Airport, Coatesville Gassert Appliance, Mount Aetna

McKean Plumbing Htg. & Supply Co., 468 W.Chesnut, Washington Johnston Plumbing & Heating, Box 265, Manorville

RHODE ISLAND

Valley Trailer Repair, 44 Hazard Street, Anthony,

SOUTH CAROLINA

Partain, Inc., Carrier 53-Base Drive, Greenville, Pee Dee Sales Company, Box 4505, Charleston Heights, SOUTH DAKOTA

F. S. Rowe Hardware Company, Fort Pierre S and T Appliance, 315 Walnut Street, Yankton

TENNESSEE

Mobile Home Parts & Dist., 2207 Dickerson Rd., Nashville

TEXAS

Centex A/C and Heating, 3940 North Expressway, Dallas Mac's Trailer Repair, 1120 Sheppard Access Road, Wichita Falls Texas Mobile Home Supply, 2211 Austin Highway, San Antonio Mobile Home Service of El Paso, 8467 Highway 80 East, El Paso Mike Hammer Mobile Homes, Route 3 - Box 257, Abilene Eagle Plumbing & Heating, 3531 Hemphill, Fort Worth Sim's Plumbing & Heating, Stillwell at 10th Street, Port Arthur Crawford Service Center, 1111 Loring Avenue, Laredo UTAH

Ken and Joe's Trailer Repair, 245 Plymouth, Salt Lake City Bill Terrell, Box 170, Kanab

VIRGINIA

Norview Service Center, 6107 Sewell's Point Road East, Norfolk Kirby Plumbing and Heating, 102 Snidow Heights, Blacksburg WASHINGTON

Western Service Company, 217 North Division, Spokane Keith's Tr. Sales & Serv., Richland "Y"-Box 363, Kennewick Tucker and Sons, 48 and Pacific Avenue, Tacoma Seattle Trailer Depot, 10855 Pacific Highway S, Seattle Mobile Shade Company, Inc., 14561 Aurora, Seattle 33

WISCONSIN
Douglas Oil Company, 3719 West Douglas Rd., Milwaukee
Don's Mobile Home Htr. Service, R#1-Box 304B, Fond du lac
WYOMING

Fay Peebles Trailer Sales, 501 West Yellowstone, Casper Adams Mobile Home Sales, Box 432, Green River

OWEN INFO-GRAM

BOWEN WATER HEATER DIV.

HANDLING EQUIPMENT MFG. CORP.

WIXOM, MICHIGAN

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CUSTOMER SERVICE BULLETIN

12-18-61

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THE MOBILE HOME SERVICE CO.
F. O. Box 2868
Fhore \$1 6-2021

MOBILE AZALEA MOBILHOME SERV. B SUP. Br. 4. Sox 520-J. R. Hobbe GR 7-0688

SHEFFIELD MOBILE HOWE SERVICE 1105 30th St. Phone EV 2-0023

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COMPLETE TRAILER SERVICE*
940 East Man
WAITI MOBILE HOME SERVICE*
NO 2-8ex 20456
WO 4-1091

PAGE SERVICE" WI 5-2721

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4000 East Pulk Syseet
88 5-8527 HE S-ASSP JOHNNY'S TRAILER SERVICEY 2000 WHI CYPTER AP 8-820 OC TRAILER SERVICEY 5001 EARL VAN BUREN DR 5-8091 BAY SWITH TRAILER SERVICET 101 North 32nd, Smeet BR 5-2430

BR 5-2433
TUCSON S REPAIR SERVICE & SALES*
TAS WAST Glann Street
MA 4-0055
WADDELL'S TRAILER STORE
1815 No. Oracle Rd.
Phane MAIN 3-833
1ED WALKER 118, MODIES... NO.
2002 South Seath Avenue
WARN 12595

ARKANSAS

JACKSONVILLE
POOLE MOBILE HOME REPAIR
P. O. Rev. 1112
Phone Liberty 4-9960

CALIFORNIA

BIODHINGTON WOBILE TRAILER SERVICE 18411 Valley Blod Phone: TRINITY 7-1007

COMPTON
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12516 S. Atlantic Street
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L MISS.
AMESS.
7255 University Ave.
HO 95551

HO 0.5681
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LOWPOC TRAILER CENTER
LOS ANDERS
AND A SOOL INC.
SOIL Valley Resilvered
CACHEL SZEZI
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ALI TRAILER SUPPLY*
LOS BE Carrino Street
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POUT Office 9s- 447, Highway 43-A

Maryanila Road

Phore Lance 3-1919

Phone Lands 3-1919
PAM SPRINGS
LARRY WILLIAMS TRAILER SERVICE
115 So. 10 Septende
Flores FA 14919
REDWOOD CITY
DEONE TER & HEATING SERVICE
715 Hallingare Avenue
SAN EEANDASEN WORLE HOME SERVICE
13744 MAIDHT AVe.,
Phone IDDamaing 4-3740
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AURORA FRAILER SUPPLY 1463 Tole EMpire 6-8110

SOULDER FRAILER SERVICE 2475 30th Sr. Phone HI 3-1096 COLORADO SPRINGS ALFRED'S TRAILER PA 312 East Eighth Street PARK & SALES"

RED TAG BOTTLE GAS SERVICET 3310 East Platte Avenue Militage 3-4765

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2465 U.S. How. 6
Phone CH 3-2018

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JA 8-6014 or NA 3-0533

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FLORIDA

FF, LAUDEBDALE PALM GAS & TUR. SUPP., INC.* 21VG Road 84 1U 3-6833

FI. MYERS TRAILER PARK*
JIT Chewland
Phore WE 6-3359
HOMESTEAD
SOUTH FLORIDA MOBILE HOME SERVICE*
1-30 R. W. WH Court
Chica 7-0569

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4003 So. Westings Sive.
Phone 66-8661

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Phone PO 5-7071

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Hiskory 2-0733
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Phone 952-1673 MARION

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State 3-0115

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Phone Cliestwood 5-7783

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Fhone Flenide 3-1087
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14500 No. U. S. 27
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Phone Hobert 1-97ev

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SERVICE & BERAIR CO.,

SOID E. 40 Illinoir

Phone TEmple 3 3000

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Phore Elverly 5-3522
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123 *0" 51.
Thore HEARING 2-655

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DATES WORLE HOME SERVICE 7764 Dodge Thore 3916963

Phone 3916903
A. C. Helisen CO.
2712 Harvey St.
Thoma 344-4000
Scorissister
Till Bosde Comprehension*
Post Office San 433
Phone 362
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MIELS MORITE HOME SERVICE
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Fhome 2-0235

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WASHIS 5-2442
EYADHURST
GESTHOLIZER MOBILE HOME SERV, CENTER
460 Lenderslammin 31.
Phone WE 3.0474

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M. and R. TRAILER SERVICE 2515 Morningside, M.E. Phores: AM 8.7842

Phone: AM 87842 FARMINGTON: MEAD'S TRAILER SERVICE & SUPPLY* Box 1954 DA 54719

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Elle Rank — Foure 5
Phone 373

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Moute 209
Toug
UL 63409
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HUNTINGTON SEA. 8. G. HAND 38 East 23rd St. Phone HA 1-5/97

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MASSENA HOMECHAFF GAS COMPANY* 9 Webs Street ROCKHESTER
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100vil 27341

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1010 Han Avenue
Absen 3-600
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Allem 3-2745

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2720 Westerville Rd.
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OHIO HOUSE TRAILER SERVICE
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RHODE ISLAND

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Phone: Torrer 45452

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5339 NC 810-Rt. 3, Box 860
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\$141 Shore Daive
Phone JUstice 85516

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Phone WAlnut 1-0453 KENOSHA OLEN'S HEATING SERVICE 1606 53-4 51. Phone OL 7-7638

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SERVICE BULLETIN

PRODUCIS OF MOTOR WHEEL CORPORATION

LANSING D. MICHIGAN

CONDENSATION IN MOBILE HOMES

Too much moisture in the air resulting in condensation of water on the windows and walls of coaches has been a problem to many mobile home residents.

This is just the reverse of what happens in the conventional frame house where most people equip their furnaces with humidifiers to add moisture to the air. It is not uncommon even in these homes to see water or frost on the windows.

If you will follow the suggestions listed below, your coach will stay dry and comfortable and you will avoid damage to the finish of the interior that so often results if the condition is allowed to continue.

- 1. Do not dry washings or hang wet clothes inside the coach.
- 2. Use the kitchen vent fun when the range is burning.
- 3. Open the bathroom vent and keep bathroom closed when using shover.
- 4. Keep one or more vent windows cracked open.
- 5. Install storm windows.
- 6. Keep blower on heater in operation.
- Inspect and clean blower wheel at least twice each heating season.
- A thermostat is a worthwhile investment. It will not only save you fuel but it will maintain uniform temperature.
- Open the fresh air damper on the heater by moving handle forward or as shown on damper nameplate.

We have often heard mobile home residents complain that moisture is coming through the plywood and damaging the interior of the coach. Actually what happens is that moisture in the air of the coach condenses on windows and walls.

The amount of vater that a cubic foot of air will hold depends upon the temperature of the air. The higher the temperature, the more moisture the air will hold. Engineers have a method of measuring the moisture content of the air. When they say the relative humidity is 60 per cent, they mean that the air is holding 60 per cent of the moisture it could hold at that particular temperature at which it was measured.

Everyone has seen a glass of ice water "sweat" in the summertime. Actually the "sweating" of the glass of ice water and the water on the windows of your coach are caused by the same thing.

The reason for moisture condensing is that the air close to the water glass or window is cooled to what is called the dew point. When the dew point is reached, the air next to the object has a relative humidity of 100 per cent. Just like a dripping sponge saturated with water, the extra moisture in the air condenses on the window.

With an inside room temperature of 70 degrees and an outside temperature of zero, the inside surface of a single window will be about 22 degrees. Under these conditions if the relative humidity is more that 15 per cent, moisture will start to condense on the glass.

Now when we install storm windows and with the same inside and outside temperatures as above, the inside surface of the window will be warmer than it was with single glass. With the warmer glass surface, condensation will not start until the relative humidity is about 31 per cent.

We often see people operate the gas range without turning on the fent van. The vent fan should be used for two reasons. The boiling of water during cooking obviously adds moisture to the air, but many people do not realize that the gas flame itself gives off some moisture.

In the average 40 foot mobile home, there are about 2100 cubic feet which would be an average of 700 cubic feet of air per person for three people. A conventional house with a foundation 2^{4} x 3^{2} feet will give over 2000 cubic feet per person for three people.

This smaller amount of air per person together with the tight construction of a coach and its unusually well insulated walls add to the condensation problem.

Knowing that the amount of moisture in each cubic foot of air in a coach would be larger, the coach manufacturer has used tarred paper or aluminum foil in the construction of his coach to serve as a barrier to the moisture filled air. The heater manufactures have provided means for bringing in the dry cutside air to help reduce the moisture content of the air in the coach.

There is a very definite reason for every suggestion made in the list above. Keep in mind that when you encounter a fogged windshield in your automobile, the first thing you do is crack open a window. Follow the nine suggestions religiously and take advantage of features provided by your mobile home manufacturer and its heating system for a dry, comfortable coach.

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Motor Wheel Corporation Consumer Products Service Department