

SERVICE MANUAL

AMRS - 7 AND AMRS - 10

WATER HEATERS



*American* APPLIANCE MFG. CORP.

#### IMPORTANT WARNING

Make sure water heater is filled with water before power is turned on. Even momentary operation of heater without water in it will burn out the element.

NOTE: Always open both the cold and hot water faucets when filling vehicle water tank to allow air pockets to be forced out of the water heater. When water flows from the heater, close hot water faucet.

#### ELECTRICAL MAINTENANCE

Electric water heaters are designed to operate with a minimum amount of service problems and with proper operation and care can be expected to outlast other types of water heaters similar in size.

The most common trouble with electric water heaters results from energizing the heater before it is filled with water. Even momentary operation of the heater without water in it will burn out the heating element and render the heater inoperative.

If the heater is full of water (check this by running water from the hot water faucet) and the water fails to heat, always check the following items before requesting service or parts:

1. Check incoming power to make sure 110 volt electricity is coming into the coach.
2. Check the circuit breaker in the coach to make sure it has not kicked out.
3. Then remove the water heater door cover and press the red reset button on the heater (NOTE: POWER SHOULD BE TURNED OFF WHEN REMOVING THE DOOR COVER).
4. If, after pressing the reset button and turning the power back on, the heater still fails to operate, the power should be turned off and all wires and connections should be checked to make sure they have not come loose.
5. After the first four steps have been followed, the heating element should be checked for continuity with an amprobe or other testing device. If the element is defective it can be replaced with any other 110 volt element of the same or lower wattage as shown on the water heater instruction decal, provided of course, its mounting holes and gasket will adapt to the element mounting bracket on the water heater.

Secondary problems with electric water heaters are rare; however they can often be corrected by minor thermostat adjustments. Thermostats are set at 145 degrees at the factory and in some cases an insufficient amount of hot water can be remedied by setting the thermostats to a higher temperature up to 160 degrees. At settings above 160 degrees the water often becomes too hot and kicks off the reset control. In such cases the red reset button requires resetting after enough hot water is drawn to allow the water temperature to drop sufficiently.

In cases where the water seems too hot and the high limit control is not shutting off the heater, it is possible that the thermostat has worked loose from the holding bracket and it is not being held tightly against the tank. This condition can be detected and corrected by applying slight hand pressure to the thermostat.

If the foregoing procedures are followed carefully it should rarely be necessary to seek outside service or parts. If service or parts is required, contact American Appliance Corporation or any of the factory representatives listed in the manual, or return the defective parts to the factory for replacement as outlined in the second paragraph of your warranty.

### TEMPERATURE AND PRESSURE RELIEF VALVE

The temperature and pressure relief valve is designed to open if the temperature of the water reaches 210 degrees or if the water pressure in the water heater reaches 125 lbs. Since both of these conditions are outside the normal operating range of a water heater, it is safe to assume that the relief valve is defective in cases where water constantly drains from the galvanized nipple in the relief valve. This valve may be replaced with either a T & P (Temperature and Pressure Relief Valve) or a Pressure Relief Valve. The valve should never be replaced with a pipe plug, since the water heater tank may be subjected to excessive pressure and consequently becomes pressure bulged. In such a case the warranty would become void.

### MAINTENANCE OF MOTOR-AID HEAT EXCHANGER

The Motor-Aid Heat Exchanger is designed to operate safely and efficiently for an indefinite period of time and should require no maintenance. Be sure to check your heater hose for cracks after the first year since a cracked hose on an outing could become a real inconvenience.

FIG. A

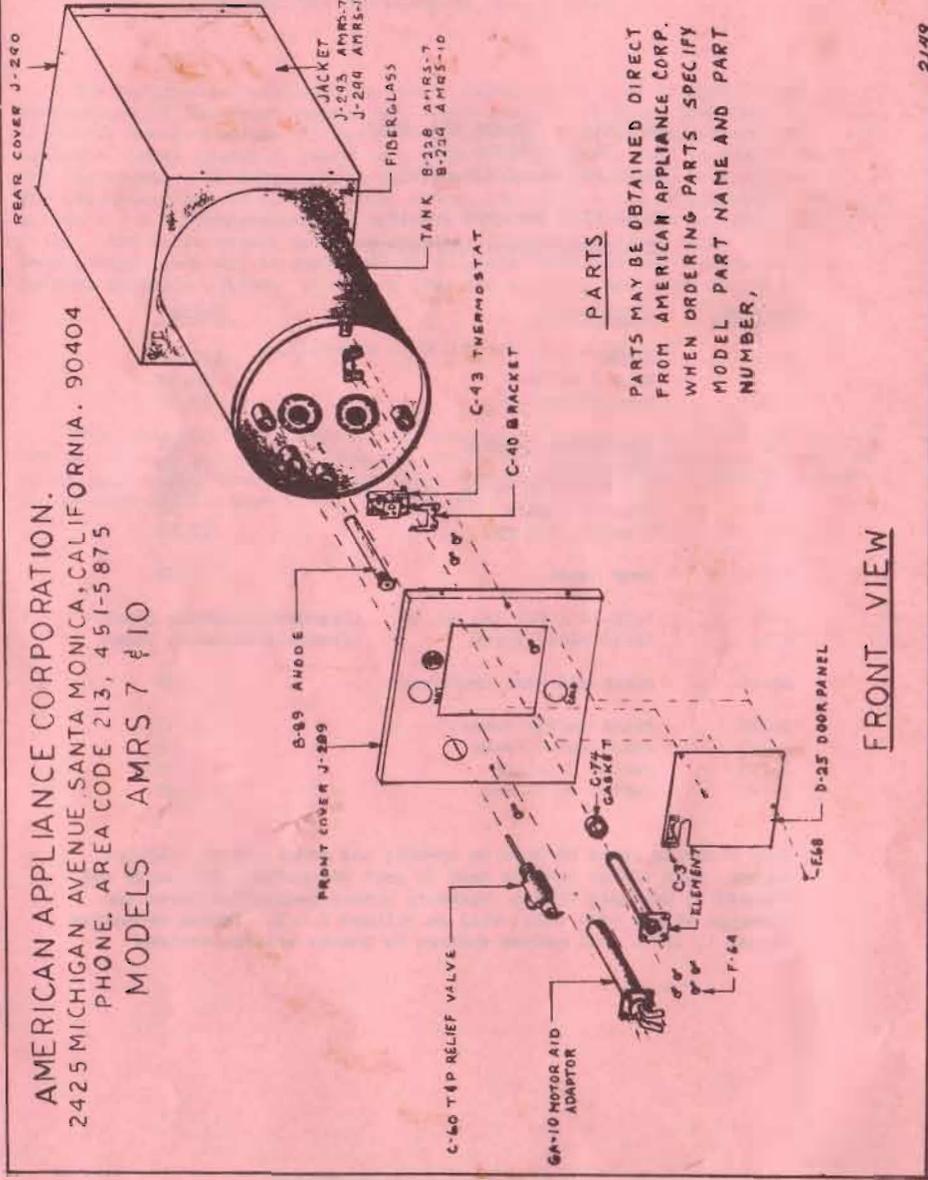
AMERICAN APPLIANCE MFG. CORP.  
2341 MICHIGAN AVE.  
SANTA MONICA, CALIF. 90404

### PARTS LIST FOR AMRS 7 & 10 REPLACEMENT PARTS AND PRICES

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
B-89	Anode	\$ 7.50
B-228	Tank 7 gallon	30.00
B-229	Tank 10 gallon	32.00
C-40	Thermostat Bracket	.65
C-43	Thermostat	11.00
C-60	T & P Relief Valve	6.50
C-74	Element Gasket	.50
C-3	Element (P-1105)	12.50
D-25	Door Panel	2.00
P-64	5/16-18 x 5/8 Hx. Hd. MS	(Standard Hardware Item)
P-68	Sheet Metal Screw	(Standard Hardware Item)
GA-10	Motor-aid Heat Exchanger	19.00
J-289	Front Jacket Cover	2.50
J-290	Rear Jacket Cover	1.50
J-293	Jacket 7 Gallon	6.50
J-294	Jacket 10 Gallon	8.50

When ordering parts be sure to specify the model number, service number, part number and the name of part requested. All parts not covered by warranty (Note: Warranty covers mechanical parts for a period of one year only) will be shipped C.O.D. Prices effective August 1, 1972. All prices subject to change without notice.

AMERICAN APPLIANCE CORPORATION.  
 2425 MICHIGAN AVENUE SANTA MONICA, CALIFORNIA. 90404  
 PHONE, AREA CODE 213, 451-5875  
 MODELS AMRS 7 & 10



PARTS

PARTS MAY BE OBTAINED DIRECT FROM AMERICAN APPLIANCE CORP. WHEN ORDERING PARTS SPECIFY MODEL PART NAME AND PART NUMBER.

FRONT VIEW

2149

IMPORTANT!  
 YOU MUST KEEP THIS  
 WARRANTY IN YOUR POSSESSION.

THIS IS YOUR WARRANTY PLEASE READ CAREFULLY

**Certificate of Warranty**

(Marine and Recreational Vehicle Installation)

ONE YEAR STRAIGHT WARRANTY

MOR-FLO INDUSTRIES, INC.

AMERICAN APPLIANCE MFG. CORP. SUB.

2341/2425 Michigan Avenue Santa Monica, 90404

AMERICAN APPLIANCE MFG. CORP., or any of its authorized service centers will furnish at no charge a replacement heater or appropriate parts as well as necessary labor for any parts which prove to be defective in material or workmanship within one year from date of original purchase of the water heater. Proof of purchase date is required.

The following items are not considered defects and are not covered under this warranty:

1. Bulging or distortion arising from water pressure greater than approved maximum pressures or collapse arising from partial vacuum.
2. Leaks arising from defective fittings not a part of the original water heater.
3. Distortion or rupture of the tank arising from allowing water in the tank to freeze.
4. Improper installation of the water heater.

To obtain service the vehicle must be taken to an authorized service center. Please call the service center first for appointment; In the event it is inconvenient to take the vehicle to a service center on this list, you should call the nearest sales distribution center for authority to have the work performed by a more convenient service center of your choice.

NOTE: After 12 months all labor charges and all parts must be paid for by the consumer. THE MANUFACTURER shall have no liability for consequential damages to buyer, persons or property.

These warranties are in lieu of all other warranties, expressed or implied, and THE MANUFACTURER neither assumes nor authorizes any person or firm to assume for them any other or further obligations or liability in connection with the sale, installation or use of the designated water heater.