

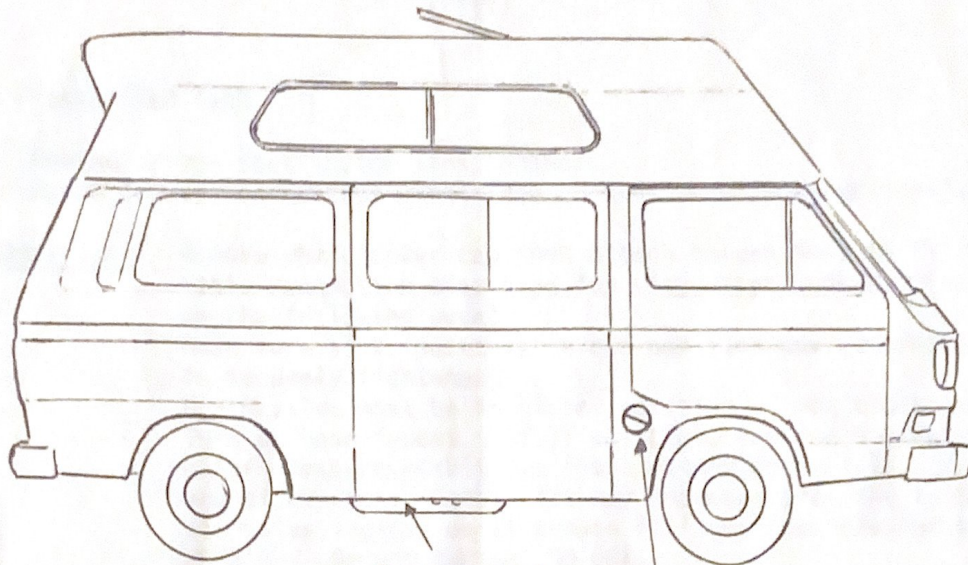
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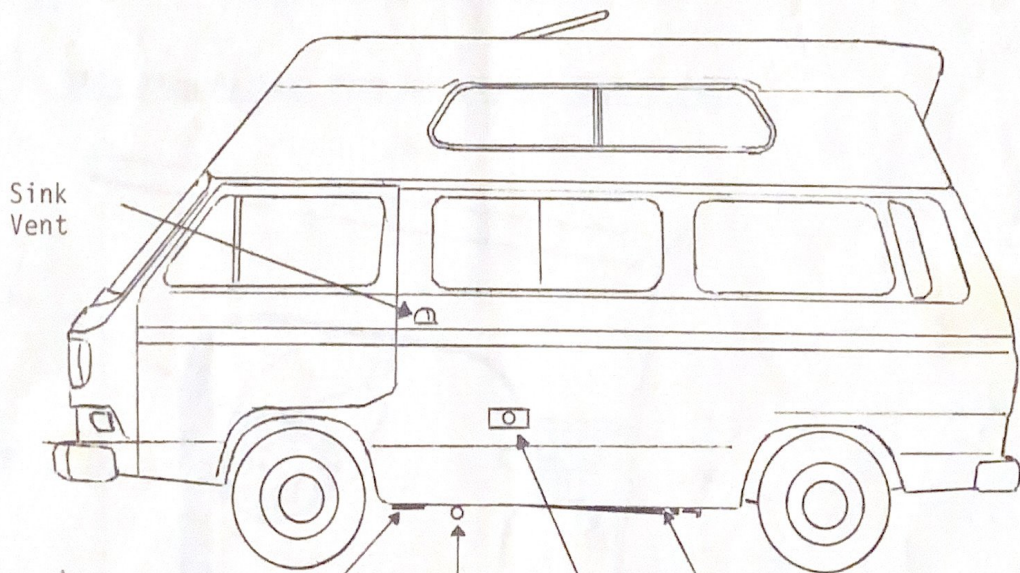






Propane Tank

Gasoline Tank Fill



Sink Vent

110 Volt Inlet

Water Fill & Drain

Furnace Exhaust

Holding Tank



WATER SYSTEM  
(Fill)

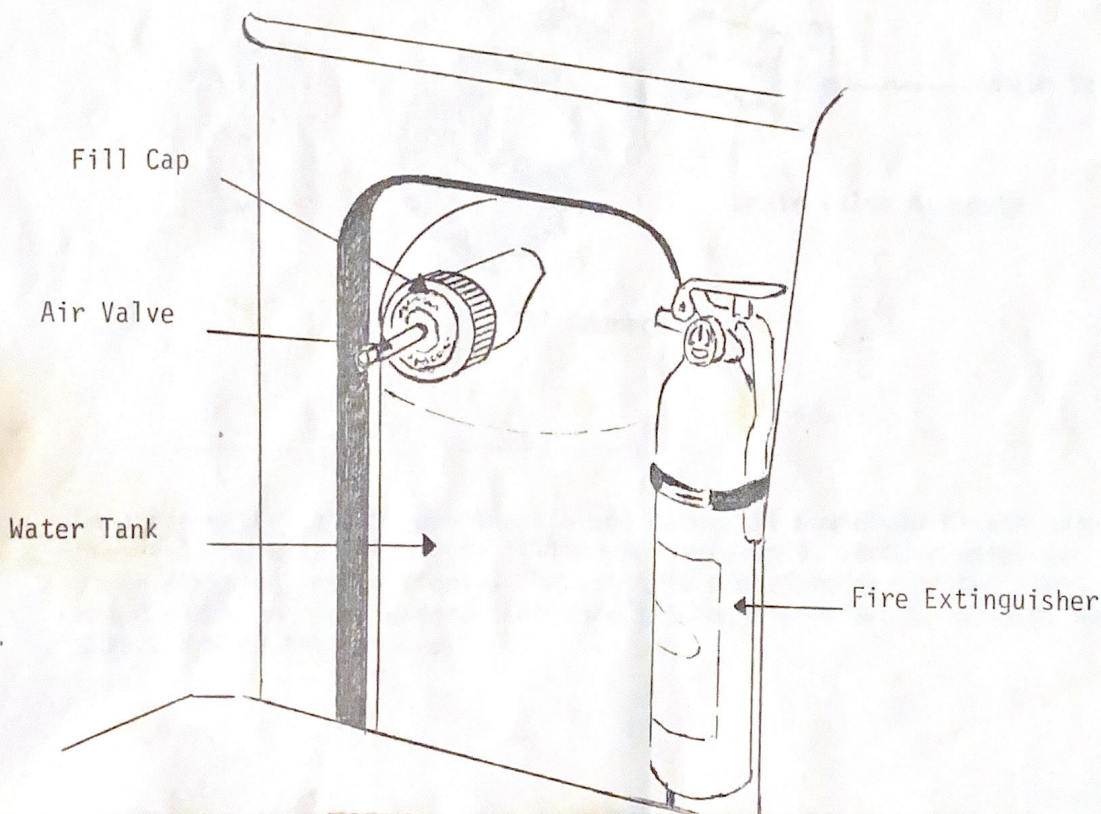
13 Gallon Pressurized Tank

Location: Behind driver seat inside sink cabinet.  
Gauge located on control panel (see control panel instructions).

Filling Water Tank: Remove white cover cap then attach garden hose to fill connection (this connection also used for city water hook-up) (see diagram on the following page).  
Make sure sink faucet is in off position and alternate fill cap is securely tightened.  
Drain valve must be in closed position - turn clockwise.  
Turn on hose faucet to full position, let run 5 minutes or until water pressure stabilizes (tank cannot over fill). Turn off hose and disconnect. Note: You may add more pressure to tank by using air valve located on alternate fill cap (see diagram below).  
WARNING: Do not exceed 100 PSI.

Using Alternate Fill: Remove all air pressure in tank by releasing air through valve located on fill cap (see diagram below).  
Remove cap - fill tank approximately 12 gallons of water, this leaves 1 gallon of space needed for air pressure.  
Secure fill cap tightly and pressurize tank through valve on cap (using bicycle pump or gas station air).  
WARNING: Do not exceed 100 PSI.

This View As Seen From Driver Door Behind Seat





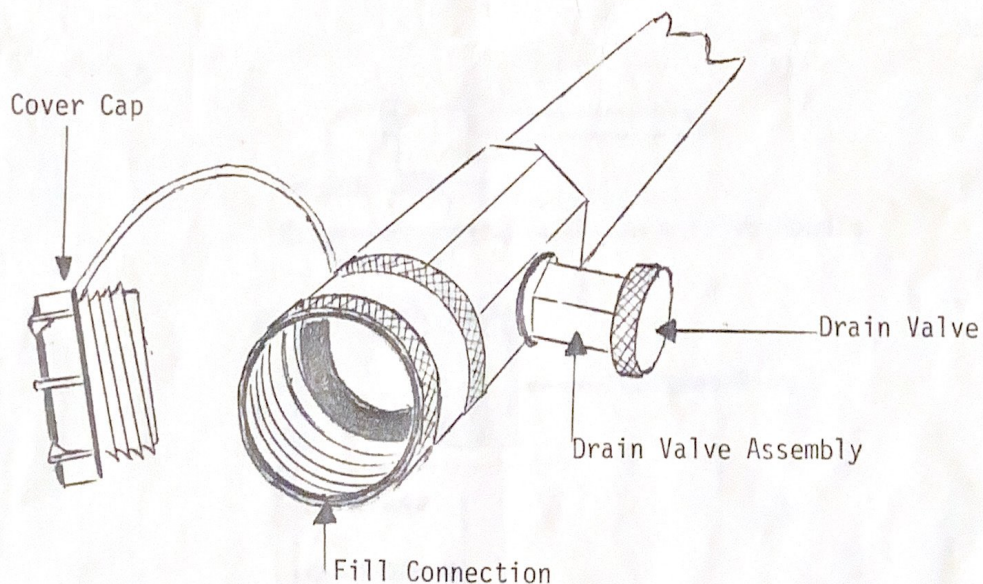
WATER SYSTEM  
(Draining)

- Drain water tank by opening the brass drain valve located on the right side of the water tank fill connection (see diagram) open valve slowly when the water tank is pressurized. There will be a wide spray of water. Keep valve open until spray has stopped. Do not close valve when there is spray. Damage may result.
- When there is no pressure in the tank, remove alternate fill cap (see diagram on preceding page) and open drain valve. Sometimes there are large chemical deposits in water that won't fit through the drain valve. If this occurs, remove the drain valve assembly using a 5/8" wrench, loosen by pushing down.

- After removing drain assembly check the main body of the drain, also check the removed section for any obstructions.

REMOVING DRAIN ASSEMBLY SHOULD BE DONE ONLY WHEN THERE IS NO PRESSURE IN THE TANK.

- Remove pressure from tank by releasing air through air valve on fill cap (see diagram on preceding page).



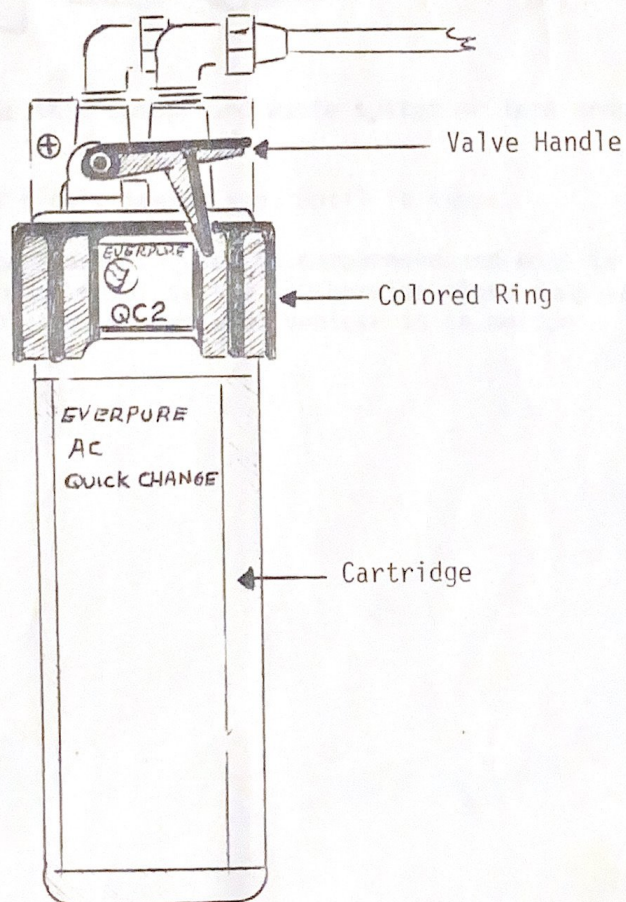
- Sanitize water tank by pouring six (6) ounces of household bleach into water tank, then filling with water (see filling instructions). Remove water and bleach (see above draining instructions). Repeat this procedure one or two times, then fill and drain with clear water. For more information refer to the R.V. water booklet supplied with the vehicle.



## FILTER SYSTEM

Location: Inside sink cabinet behind water tank. Accessible through long sink cabinet door.

- Change filter cartridge when water flow becomes inconveniently slow or at least once a year.
- Removing filter cartridge; shut off water by lifting T-shaped valve handle until it stops.
- Turn colored ring to the left until it drops about 1/2" (cartridge will turn with ring) some water may escape as cartridge is loosened. Only a small amount of water will escape when valve handle has been properly lifted.
- Lift cartridge just slightly and turn it to the left until it can be lowered from the ring and removed.
- Read instructions on new filter cartridge label for installation.

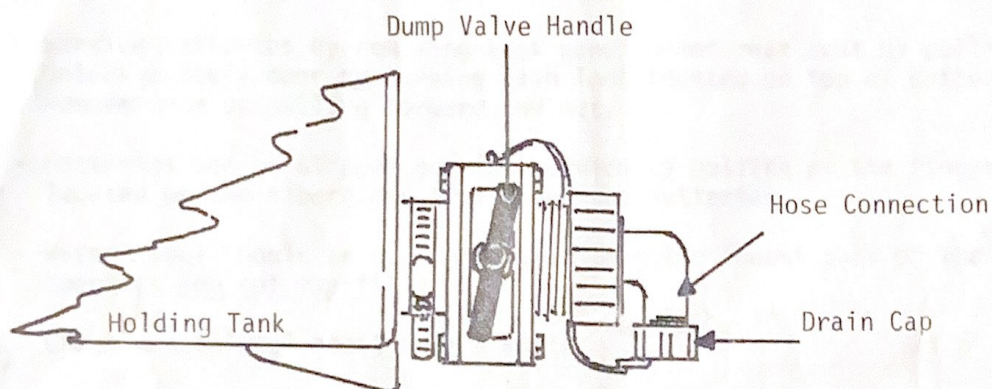




## HOLDING TANK

Location: Under vehicle on driver side

- Consists of 13 gallon gray water holding tank with dump valve and drain hose connection.
- Overfill gauge is located on control panel (see control panel instructions).
- Draining holding tank, connect female end of garden hose to drain fitting on end of dump valve by first removing white drain cap (see diagram).



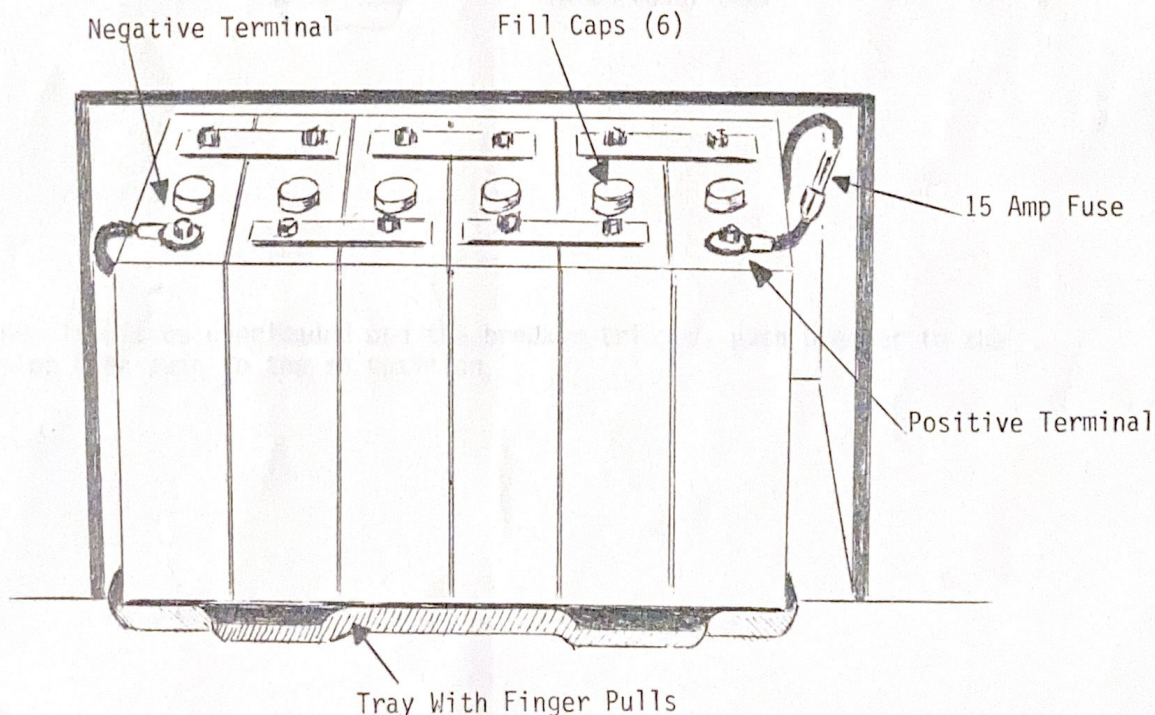
- Place other end of hose into campground waste system or into proper waste container.
- Pull dump valve handle slowly toward you, until it stops.
- Leave dump valve in open position when in campground and hose is connected and placed into campground water system. Otherwise close dump valve and replace white cover cap. Keep valve closed when vehicle is in motion.



## AUXILIARY BATTERY SYSTEM

Location: Under rear seat near the sliding door side of the vehicle.

- System consists of six - 2 volt batteries wired in series producing 150 amp hour. Each 2 volt battery is removable and replaceable. These batteries operate the refridgerator and the furnace fan only. The system is separated from the main (starting) battery by means of a diode isolator. This system is charged by the engine alternator automatically.
- Battery condition meter is located on the control panel (see control panel instructions).
- Service batteries by removing kick panel under rear seat by pulling forward. Unlock battery door by turning sash lock located on top of battery door. Remove door by pulling forward and out.
- Batteries can be slipped out for service by pulling on the finger pulls located on the fiberglass tray under the batteries.
- Water level should be kept no higher then the lowest part of the fill openings (do not overfill).
- Check water level about once a month.
- A fifteen (15) amp fuse is located inside fuse holder which is connected to the positive terminal on the far right battery.



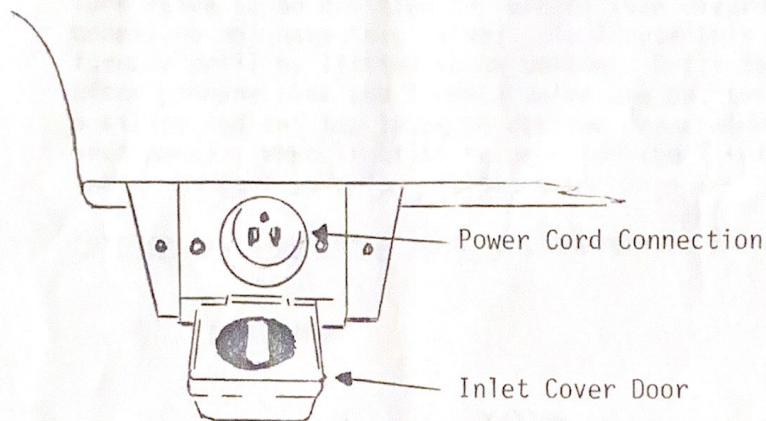


### 110 VOLT ELECTRICAL SYSTEM

Location: 15 amp breaker box and 25 foot power cord are under driver seat. One Hundred Ten (110) volt connection is located to the left of the water inlet connection behind the driver side front tire.

Connecting 110 volt power cord: Remove 25 foot power cord from under driver's seat, connect female end of cord to 110 volt inlet connection then plug the male end to home or campground 110 volt receptacle. Be sure that 15 amp breaker is in the on position. This breaker can be left in the on position at all times.

Note: Vehicles prior to September, 1983 will have the 110 volt connection located next to the breaker box by means of a power cord pass through hole.



Should the circuit be overloaded and the breaker tripped, push breaker to the off position then push to the on position.



## PROPANE SYSTEM

Location: Under sliding door side of vehicle.

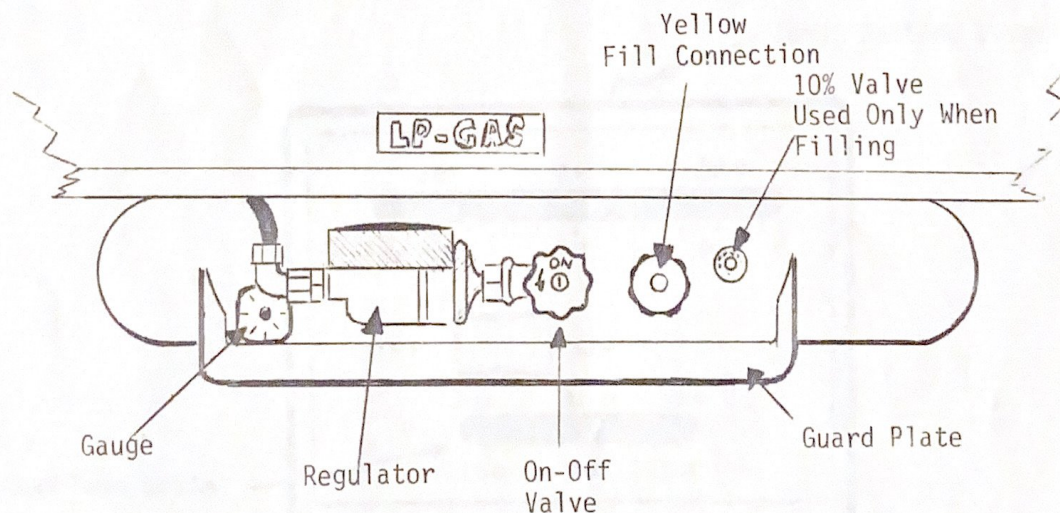
Filling Tank: Any gas station or R.V. Center that carries propane will fill the tank for you. Only qualified personnel should fill your tank. Propane capacity is 3.4 gallons. For more information, read the orange/yellow Manchester Tank booklet furnished with vehicle.

Lighting Stove: First open valve on propane tank by turning counter clockwise (see Diagram A). Light burners by holding match or spark lighter to burner, then turning on gas. When lighting stove for the first time it may take two or three tries before burner stays on; this is caused by air in the lines. Keep propane tank in off position when vehicle is in motion.

Lighting Furnace: Open valve on propane tank by turning counter clockwise. Then turn valve to on position on furnace (see diagram next page) (some models do not have this valve). To locate this valve remove brown furnace grill by lifting up on bottom. Grill snaps back in place. After propane tank and furnace valve are on, turn thermostat to on position and set top lever to desired temperature (see diagram on next page). When lighting furnace for the first time it may take two or three tries before it stays on.

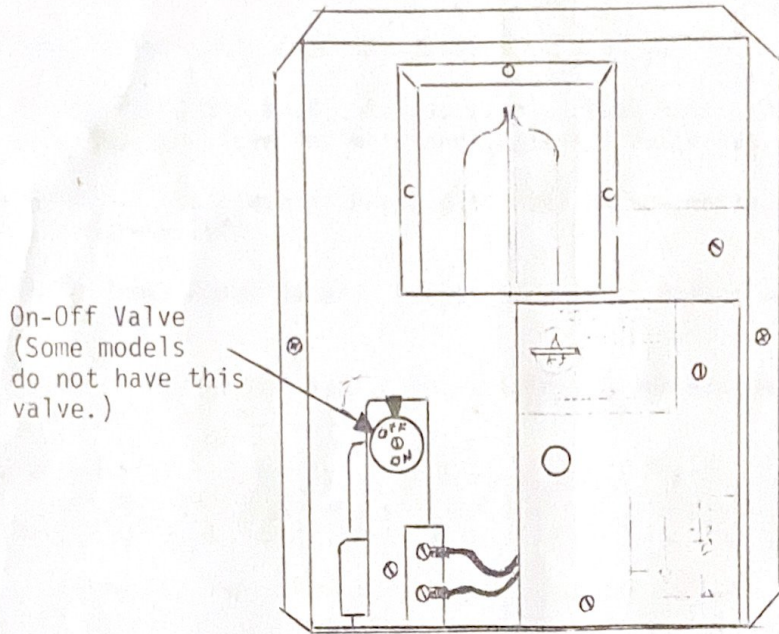
Furnace has electronic ignition, therefore, is not match lit.

DIAGRAM A



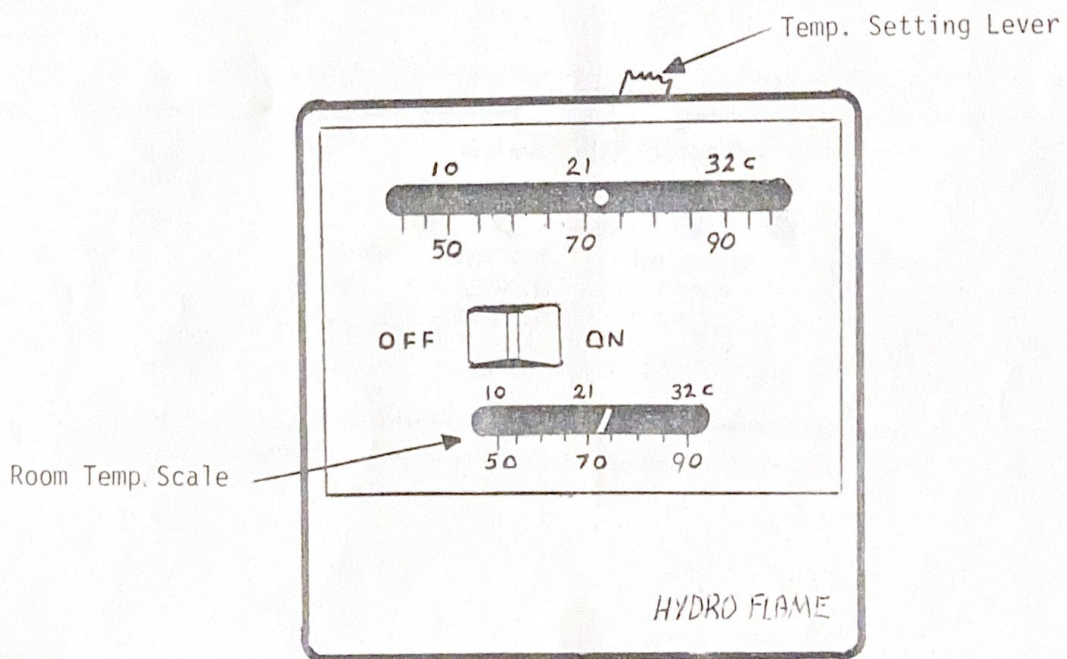


Furnace Diagram



For more information see Hydro-Flame furnace booklet with vehicle.

WALL THERMOSTAT DIAGRAM





## CONTROL PANEL

Location: Above small door on the side of sink cabinet.

The Control Panel monitors L.P. gas level, fresh water level, holding tank level and checks voltage level of main and auxiliary batteries.

- Checking L.P. gas level: Press gas level button while viewing gas level meter to the extreme left.
- Checking fresh water level: Press water level button while viewing the 5 red lights above.
- Checking holding tank level: Press holding tank button while viewing the 5 red lights above.
- Checking battery condition: This check should be done only when the engine is NOT running, otherwise, you will receive an incorrect reading. Press battery button main or auxiliary while viewing meter to the right of the panel.
- When the needle indicates the lower fair/yellow section of the meter, this indicates the battery(ies) need charging. This is done by running the engine (driving the vehicle is recommended). The amount of time needed to charge the battery(ies) depends on how low the battery(ies) are. When running the engine in the park position be aware of engine temperature (water-cooled models).\*

\*DO NOT LEAVE VEHICLE UNATTENDED, USE PARKING BRAKE

