

ACCESSORIES

AIR CONDITIONING/HEAT PUMP

This unit is controlled using the digital control located on the forward end of the overhead cabinet on the driver's side. (See Photo 5.4)



Photo 5.4

CAB MONITOR

Located in the cab overhead is a monitor panel which displays the condition of various exterior components to the operator. These are all clearly identified and will display a red light as a warning when a door, compartment, antenna, etc. are not properly stowed away. (See Photo 5.5)



Photo 5.5

ACCESSORIES

REAR STORAGE COMPARTMENT

In addition to the entertainment center, this compartment contains the gas barbecue and a blender which are operated using instructions contained in the owner's packet. (See Photo 5.6)



Photo 5.6

ENTERTAINMENT CENTER

This center has a 110 V receptacle, 12 V receptacle, headphone jacks, telephone and antenna jacks, headphone volume control, speaker selector, and speaker volume control. (See Photo 5.7)



Photo 5.7

ACCESSORIES

CABLE TELEVISION AND TELEPHONE JACKS

Located inside of the service center on the rear panel. (See Photo 5.8)

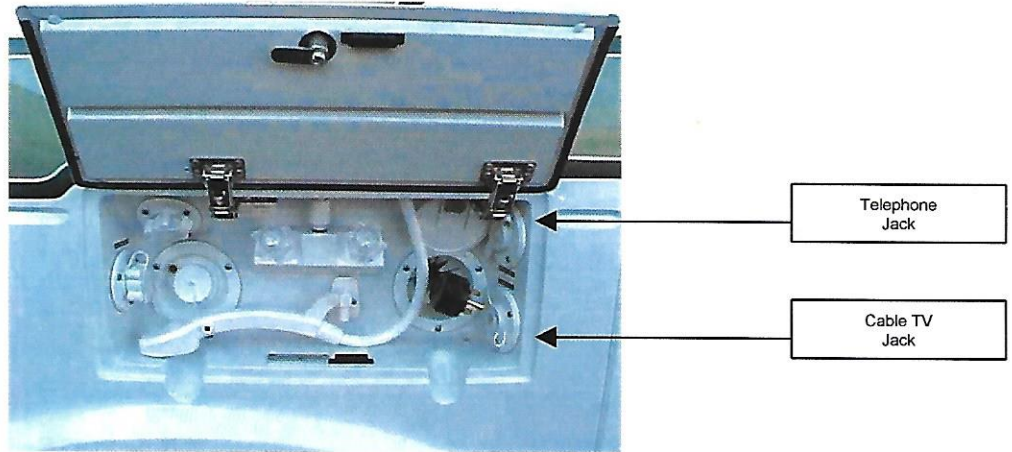


Photo 5.8

TELEVISION/VCP SWITCHES

Located in the forward overhead storage compartment on the driver's side are four push ON/OFF switches. (See Photo 5.9) Starting with the top switch:

1. VCP reception
2. Television antenna reception
3. Exterior cable antenna reception
4. Rear/exterior television

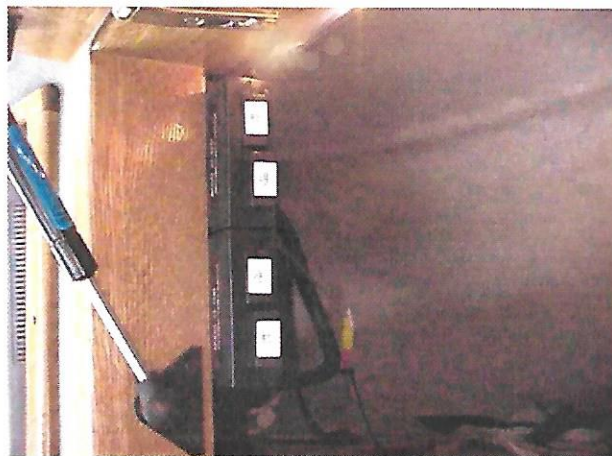


Photo 5.9

ACCESSORIES

MINI-VAULT (SAFE)

The safe is one of the special features of the Destiny Motorhome by Chinook. Located under the forward dinette seat on the passenger side, it features a heavy gauge steel container with vinyl inner lining for storage and protection of your valuables. The tubular key lock is used for quick access and added security. (See Photo 5.10)



Photo 5.10

GAS BARBECUE

Another very exciting and special feature of the Destiny Motorhome by Chinook is the high quality stainless steel gas barbecue along with its own storage bag/cover. The barbecue features a multi-position rod holder mount located on the rear bumper (driver's side). (See Photo 5.11)



Photo 5.11

FRESH WATER SYSTEM

GENERAL

Fresh water is supplied either from the on-board fresh water tank or through a hook-up to municipal water when available at a campsite (see Figure 10.8).

FRESH WATER TANK

The fresh water tank is located under the sofa-bed (or twin bed) on the driver's side. In order to draw water from the fresh water tank, the water pump switch must be turned on. The water pump switch is on the monitor panel on the range hood. (See Photo 6.1) Once the switch is turned on, the water pump will cycle whenever a faucet is turned on or the toilet is flushed.

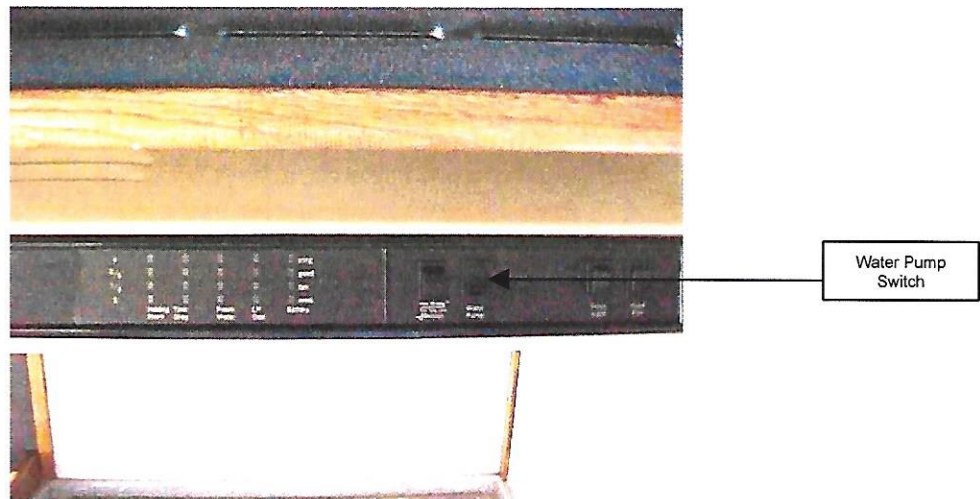
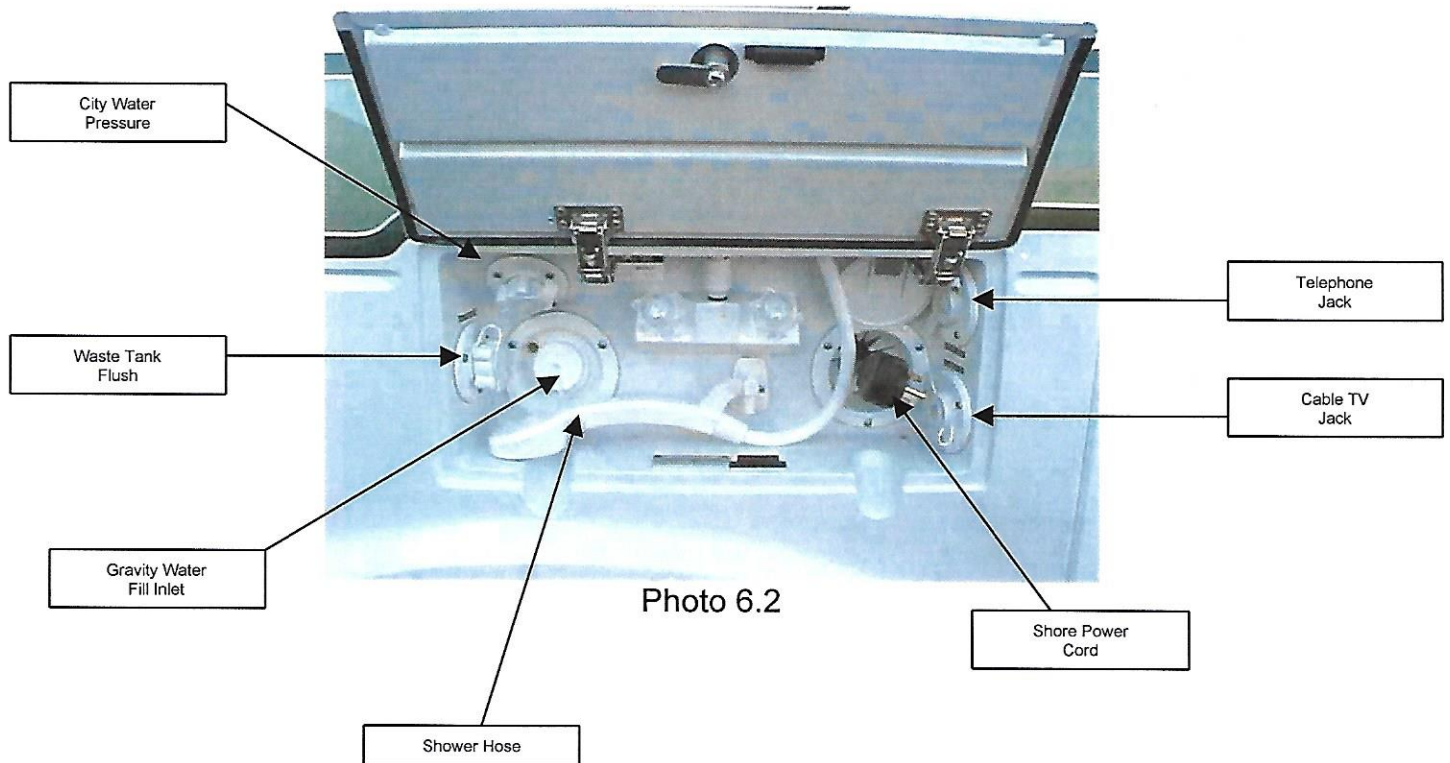


Photo 6.1

NOTE: The water pump cycles by sensing a drop in water pressure. Normally this occurs only when a faucet is opened or the toilet is flushed. If the water pump cycles at any other time, this may be an indication of a leak in the water lines, which should be checked immediately.

The fresh water tank is filled through the water tank fill port (largest opening) located in the "service center" on the driver's side of the motorhome. (See Photo 6.2) The water pump switch should be turned off when the water system is not in use or hooked up to city water.

FRESH WATER SYSTEM



WATER FILTER

Located on the incoming water side of the water pump, which is located under the sofa, should be serviced as recommended by the manufacturer's owner's manual. (See Photo 6.3)



CITY WATER

A direct connection may be made to a city water pressure system through an inlet fitting in the "service center" on the driver's side of the motorhome. (See Photo 6.2) When using the city water hookup, it is not necessary to operate the water pump. The city water inlet fitting contains a

FRESH WATER SYSTEM

pressure regulator limiting the system pressure to 125 psi. This prevents damage to the piping caused by excessively high supply pressures such as those encountered at some campsites.

WATER HEATER

All models are provided with a hot water heater located behind the driver's side rear fender well. As a standard, the water heater on Chinook motorhomes runs off of LP gas only (with electric ignition). The switch is located above the galley cabinet. (See Photo 6.4) The specifications of the water heater in your motorhome can be found in the operating instructions in your owner's packet.



Photo 6.4

If desired, water to the water heater can be by-passed by changing the positions of the two valves located in front of the water heater which are located through the access door next to the shower door.. (See Photo 6.5 and Photo 6.6) The valve positions for flow through the water heater and for bypassing the water heater are shown in Figure 10.8.



Photo 6.5

FRESH WATER SYSTEM



Photo 6.6

OUTSIDE SHOWER

The outside shower is located in the “service center” on the driver’s side. The showerhead with flexible hose can be removed by opening the access panel located just above the left rear wheel well. In order to run the outside shower, two valves (one each for hot and cold located inside under the galley sink) need to be properly positioned (see Figure 10.8 and Photo 6.7).

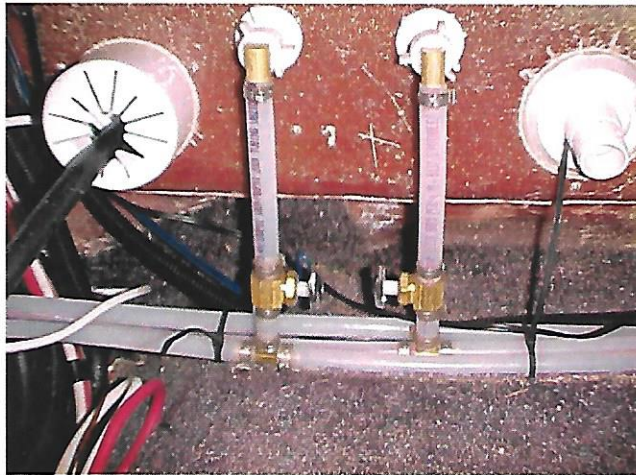


Photo 6.7

DRAINING THE FRESH WATER SYSTEM

Periodically it is necessary to drain the fresh water system. This is done by opening the water tank drain petcock valve and the hot and cold line petcock valves located inside the coach under the sofa as shown in Figure 9.8. (See Photo 6.8)

FRESH WATER SYSTEM



Photo 6.8

If your motorhome is used frequently, you can leave water in the tank. Keep it sweet by adding a teaspoonful of soda to every fourth or fifth tank of water. For long periods of time between use, drain the tank completely except for a teaspoonful of soda and two gallons of water. When you are ready to use the unit again, refill the tank and drain completely, then refill with fresh water.

WINTERIZING

To winterize the fresh water system, first drain the fresh water lines and tank. Next, add a recommended solution to prevent freezing in traps and other water filled cavities in the drainage system only.

WARNING: Do not use antifreeze other than those recommended for plastic pipe and recreational vehicles.

WATER PUMP SERVICING

If the water pump needs to be serviced or replaced, there is a three-way valve located between the water tank and the pump that should be shut off. This allows removal of the water pump without having to drain the water tank. (See Photo 6.8)

WASTE WATER SYSTEM

GENERAL

Two water holding tanks are installed on your motorhome. They are located under the coach to the rear of the driver's side as shown in Figures 9.3 and 9.10. The "gray" water waste tank holds waste water from the galley sink, shower sink and shower. The "black" water tank holds waste from the toilet. The optional heated tanks are activated using the ON/OFF switch located above the galley sink. (See Photo 7.1)

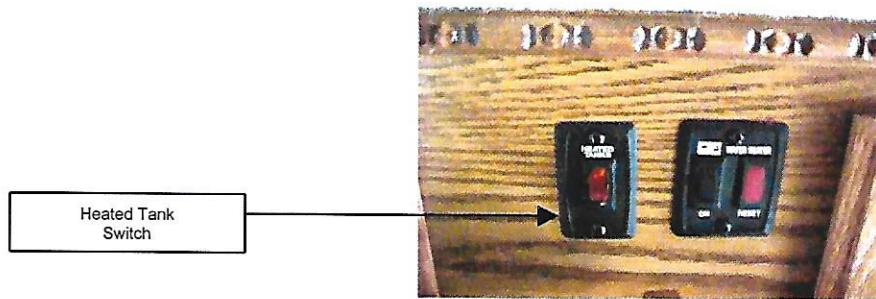


Photo 7.1

DRAINING THE WASTE HOLDING TANKS

When your holding tanks require emptying, follow these steps:

1. Locate an outlet where they may be drained. This may be a gas station which has septic tank pumping facilities, a trailer park or a supply and service facility. Guidebooks contain these locations.
2. Park next to the inlet where you will dump the waste.
3. Remove the flexible hose from its storage compartment located under the vehicle just forward of the bumper. Make sure the drain valves are closed, (T handles all the way in or switch set at CLOSED position), remove the drainage cap, insert the hose connector and tighten. (See Photo 7.2 and Photo 7.3)



Photo 7.2

WASTE WATER SYSTEM



Photo 7.3

4. Insert the opposite end of the hose into the pump tank inlet.
5. Open the valves by pulling the T handles all the way out or activate the switch to the OPEN position. (See Photo 7.2 and Photo 7.3)
6. When the tanks are empty, close the valves and secure them. The system is now completely drained and ready for use.
7. Utilize black tank flush each time tanks are emptied.(located at left rear)
8. Return the flexible sewer hose to its storage tube and secure the cap.
9. Electric waste tank dump valve switches are located in the rear storage compartment, in the driver's side upper corner. (See Photo 7.2)

NOTE: A false reading from the monitor panel indicating that a holding tank is full even after it has been drained can occur (especially on the “black” water tank). This is usually caused by debris such as tissue paper laying across two or more probes inside the tank resulting in a short. This problem can be remedied by flushing the tank until all debris is cleared from the probes. (See Photo 7.3 for tank flush connection)

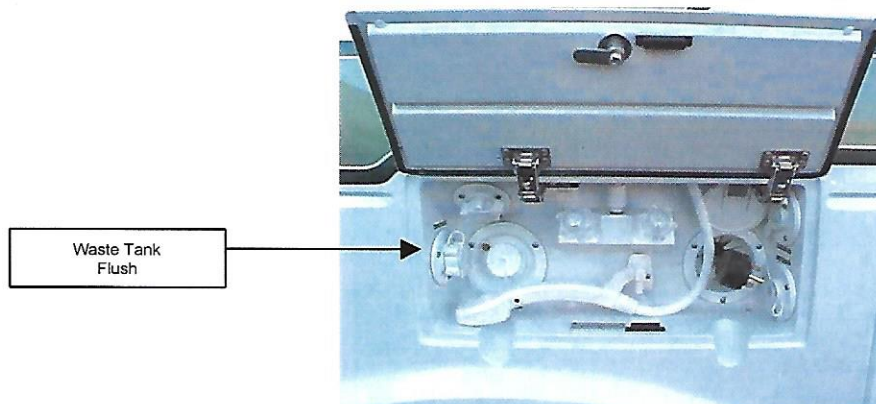


Photo 7.3

WASTE WATER SYSTEM

CLEANING

From time to time add a gallon or two of water containing liquid detergent into the holding tanks. The movement of the water and detergent when the vehicle is in motion will clean the tanks. Use of a holding tank deodorant prevents excessive odor from the tanks. Several products are generally available for this purpose.

WINTERIZING

After draining the waste water tanks, add a recommended solution to prevent freezing in traps and other water filled cavities in the drainage system only.

WARNING: Do not use antifreezes other than those recommended for plastic pipe and recreational vehicles.

LP GAS SYSTEM

GENERAL

LP-gas is supplied to your appliances from a storage tank located under the motorhome on the passenger side. The high pressure of the storage tank is reduced to appliance operating pressure by a two-stage regulator attached to the main supply valve. LP vapor passes through this regulator to a steel pipe manifold (see Figure 10.3) and is then distributed to LP appliances.

The following appliances operate on LP-gas:

1. Furnace
2. Water Heater
3. Range/Oven
4. Refrigerator (LP gas is an optional fuel source for the refrigerator, which can also run on 12V or 110V power).
5. Generator as supplied on Diesel models

To assure safe, trouble-free operation, read the manufacturer operating instructions for each appliance completely before use. Each appliance manual can be found in the owner's packet provided with your motorhome.

SAFETY

To ensure safe operation of your LP appliances, you should be aware of the following warnings and warning labels:

WARNING: LP-Gas containers shall not be placed or stored inside the vehicle. LP-Gas containers are equipped with safety devices that relieve excessive pressure by discharging gas to the atmosphere.

The following warning label has been located in the cooking area to remind the user to provide an adequate supply of fresh air for combustion:

**WARNING: IT IS NOT SAFE TO USE COOKING
APPLIANCES FOR COMFORT HEATING**

Cooking appliances need fresh air for safe operation. Before operation:

- 1 Open the overhead vent or turn on the exhaust fan, and
2. Open a window.

Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) will avoid the danger of asphyxiation.

LP GAS SYSTEM

Unlike natural gas used in homes, LP-gas is heavier than air. This means that if a leak should occur in the system the escaping gas will seek the lowest level in a contained area. Simply opening windows will not lessen the danger of explosion. If a leak is suspected, be sure to open all windows, doors, cupboards and drawers to allow any accumulated gas to flow to the exterior .

A warning label has been located near the LP-Gas container- This label reads:

**DO NOT FILL CONTAINER(S) TO MORE THAN
80 PERCENT OF CAPACITY**

Overfilling the LP-Gas container can result in uncontrolled gas flow, which can cause fire or explosion. A properly filled container will contain approximately 80 percent of its volume as liquid LP-Gas.

WARNING: Do not use fuel-burning equipment, including wood and charcoal grills and stoves inside the motorhome. The use of this equipment inside the motorhome may cause fires or asphyxiation.

The following label has been placed in the vehicle near the range area:

IF YOU SMELL GAS:

- 1. Extinguish any open flames, pilot lights, and all smoking materials.**
- 2. Do not touch electrical switches.**
- 3. Shut off the gas supply at the tank valve(s) or gas supply, connection.**
- 4. Open doors and other ventilating openings.**
- 5. Leave the area until odor clears.**
- 6. Have the gas system checked and leakage source corrected before using again.**

LP-Gas regulators must always be installed with the diaphragm vent facing downward. Regulators that are not in compartments have been equipped with a protective cover. Ensure the regulator vent faces downward and that the cover is kept in place to minimize vent blockage that could result in excessive gas pressure causing fire or explosion.

LP GAS SYSTEM

OPERATION AND MAINTENANCE

Below are some additional procedures you should follow in the operation and maintenance of the LPG system:

1. Familiarize yourself with the distinctive odor of LP-gas.
2. Check the entire system for possible leaks and missing or damaged parts before and after each trip, when filling the storage tank and any time you suspect trouble. Your Chinook motorhome is designed so all joints and connections in its LP-gas system are accessible for inspection. You should check these connections periodically by brushing a solution of water and liquid detergent on the fittings under pressure and watching for bubbles - an indication of escaping gas.

WARNING: Do not use a lighted match or similar device to detect LP-gas leaks.

3. If a leak is suspected, immediately turn off the main service valve on the tank and ask your LP-gas dealer to check the system.
4. In an emergency, the tank service valve must be readily accessible. Never attach a lock or device requiring a key, special tools or knowledge to open or close this valve.
5. When the LP-gas system is not in use, turn off the gas supply at the tank.
6. Never use a wrench to tighten the tank service valve. It is designed to be closed leak tight by hand. If a wrench is required to close or open the valve, it must be repaired or replaced.
7. Read and observe the tank manufacturer's instructions. They will explain the operation of all tank controls.
8. Do not tamper with LP-gas piping system, pressure regulator or appliances. Exercise caution when drilling holes or attaching objects to walls or floor area.
9. Be sure appliance, plumbing and outside vents are free of obstructions when operating any LP-gas appliance.
10. **The LP-gas tank should be filled only by qualified personnel at an LP-gas dealer service station. Note that the LP-gas tanks are initially pressurized with air which must be bled off before the tank can be filled.**

MAINTENANCE

GENERAL MAINTENANCE

Exterior Care

Care for the exterior of your motorhome as you would for an automobile or boat finish. The Chinook surface may be cleaned using car shampoo, mild detergents or household cleaners - but be sure to check the list which follows. Strong soaps and abrasive cleaners should not be used. Dirt or grime that has been ground into surfaces is easily removed with a good quality rubbing or polishing compound. Rinse well after washing.

CAUTION: DO NOT USE GASOLINE OR PAINT THINNERS TO REMOVE TAR - THEY SOFTEN PAINT. USE A SPECIAL TAR REMOVER AND RINSE WELL WITH CLEAR WATER.

The fiberglass and enamel surfaces may be waxed at any time, require no special methods, and do not rust or corrode. You do not have to wax before traveling to the ocean. Only metal surfaces are subject to salt air corrosion, so waxing them before driving to the seashore will improve their resistance. Wash the surface before waxing with automotive or household waxes. A paste wax provides the best protection from abrasion and minor scratches because dirt slides readily from a well-waxed surface. The fiberglass becomes slightly dull or faded after long exposure to weather. You can easily restore it to its original luster and gloss by cleaning with a good rubbing compound and then waxing. The exterior color key trim should be cared for as described above. Do not use gasoline or solvents. Clean with mild detergents and then wax to restore luster.

Agents not recommended for cleaning the fiberglass include the following:
(Contact manufacturer before using any solution that is not listed)

1. Gasoline
2. Carbon tetrachloride
3. Lestoil
4. Pine-sol
5. Lysol
6. Abrasives (cleaners)
7. Paint thinners or solvents containing aromatic and halogenated hydro-carbons (ketones, benzene, toluene, perchlorethylene).

Awning

Use mild soap and water with a soft brush

Storage Compartment

On the slide out compartments, keep the accuride rails clean and do not lubricate. Adjustments should only be made by an authorized dealer.

MAINTENANCE

Chrome/Aluminum Parts

Clean with soap and water and wax often.

Dump Valves

At the conclusion of each dumping process, leave the valve fully open and flush the inner end of the assembly with running water. For your personal protection wear rubber gloves and apply a liberal bead of petroleum jelly to the groove between the seals. This should also be accomplished when the unit is in storage for any length of time. Hint: To apply the petroleum jelly, use a small refillable grease gun with a short extension and fill the cartridge with petroleum jelly.

Interior Care

For wood surfaces the same care and cleaning methods used in your home should be used in your motorhome. Strong soaps and abrasives should not be used, but cleaners containing small amounts of ammonia may be suitable. Cabinet fronts need very little care. Treat them as you would any fine piece of furniture in your home. The shower stall of your unit is constructed of rugged fiberglass. The finish will not chip or crack, but it can be cut or scratched. In the event that it is cut or scratched, use a good grade of rubbing or polishing compound. The color is cast into the fiberglass and will not fade. Never use steel wool or abrasive cleaners on your fiberglass or Corian counter tops- you simply add serious scratches by doing so. Your floor is covered with top-grade carpeting. Maintain it exactly as you maintain your carpets at home. The upholstery in your Chinook motorhome is a fine quality material and should be treated accordingly.

PREVENTIVE MAINTENANCE

Some Things to Check

Your privacy blinds will retain their color and beauty with occasional cleaning. You may order extra sets from your dealer. You should make a general maintenance inspection of your motorhome periodically. Non-drying caulking compounds, available in tubes, may be used to seal around moldings and seams. These compounds are compatible with fiberglass and aluminum surfaces. Epoxy-resin patch kits, also available in tube form, may be used to fill any small cracks or holes in the fiberglass. Patch and fiberglass care kits are available at most boat shops and marinas. It is recommended that all chassis bolts be checked once a year for tightness to prevent rattles resulting from vibration. If the exterior of your motorhome is punctured, immediately cover the puncture with a piece of waterproof material and tape. This will prevent moisture from getting through and damaging the interior. Keep the puncture patched in this manner until your dealer can repair it or refer you to a qualified service facility.

MAINTENANCE

Roof Inspection

Take care of your roof. Sealing around stacks and vents should be accomplished using non-drying caulking compounds. Hot summer sun can dry out caulking, and pronounced temperature changes can cause varying degrees of expansion and contraction with various materials used in your roof and its components. These conditions may cause leaks, which is why you should inspect the sealants around the vents and other components regularly. By catching a problem in its early stages you can avoid serious repairs in the future.

SPECIFICATIONS & DRAWINGS

Specification	Destiny
Exterior Height	9' 10 1/2" (with AC)
Interior Height	6" 3"
Exterior Width	101"
Length	24'
UVW ¹	10,300
GVWR ²	12,300 lb.
NCC ³	2000 lb.
GCWR ⁴	22,300 lb.

1. Unloaded Vehicle Weight - The weight of this motorhome as built at the factory with full fuel, engine oil, and coolants. The UVW does not include cargo, fresh water, LP gas, occupants, or dealer installed accessories.

2. GVWR (Gross Vehicle Weight Rating) - The maximum permissible weight of the motorhome. The GVWR is equal to or greater than the sum of the Unloaded Vehicle Weight plus the Net Carrying Capacity.

3. NCC (Net Carrying Capacity) - The maximum, weight of all occupants including the driver, personal belongings, food, fresh water, LP gas, tools, tongue weight of towed vehicle, dealer installed accessories, etc., that can be carried by this motorhome. (NCC is equal to or less than GVWR minus UVW).

4. GCWR (Gross Combination Weight Rating) means the value specified by the motorhome manufacturer as the maximum allowable loaded weight of this motorhome with its towed trailer or towed vehicle.

Specification	Destiny
GAS TANK	36 GAL
FRESH WATER TANK	37 GAL
WATER HEATER	6 GAL
GRAY WATER TANK	40 GAL
BLACK WATER TANK	20 GAL
REFRIGERATOR	6 CU FT
FURNACE	16,000 BTU/HR
RANGE	3-BURNER COOKTOP
LIGHTING	12/110V SYSTEMS
CONVERTER	45 AMP
TWIN BED	74"x32"
SOFA SLEEPER	74"x50"
DINETTE	72"x84"

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

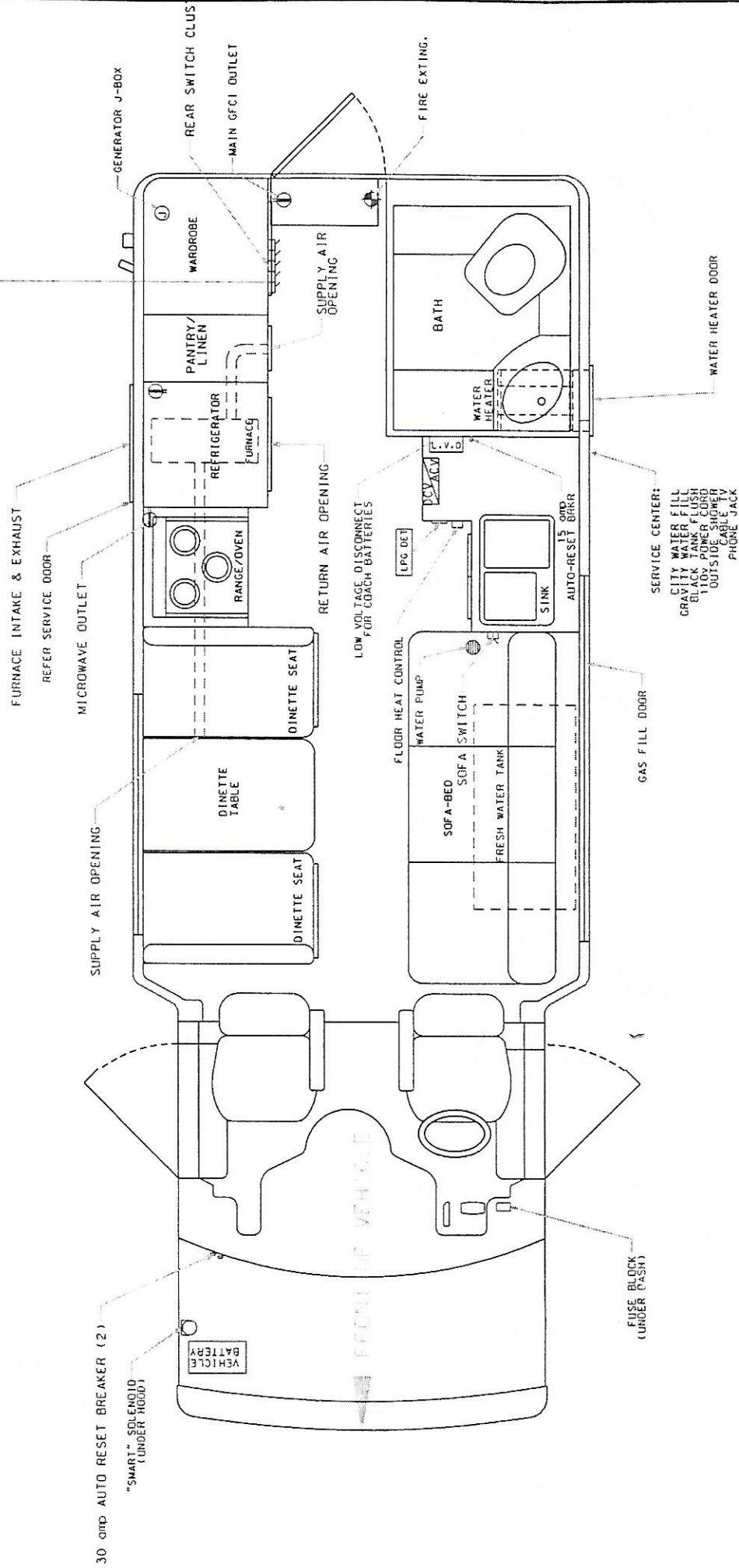
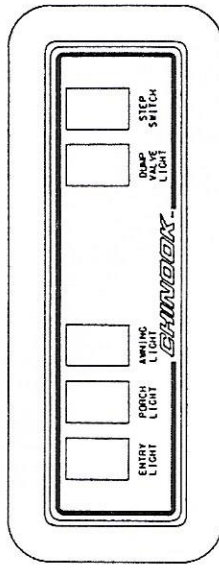
GHIVOOK

RV

DESTINY 2400

FIGURE 10.1
FLOORPLAN: DINETTE

REAR SWITCH CLUSTER



CHINOOK RV

DESTINY 2400

FIGURE 10.2
FLOORPLAN (OVERHEAD)

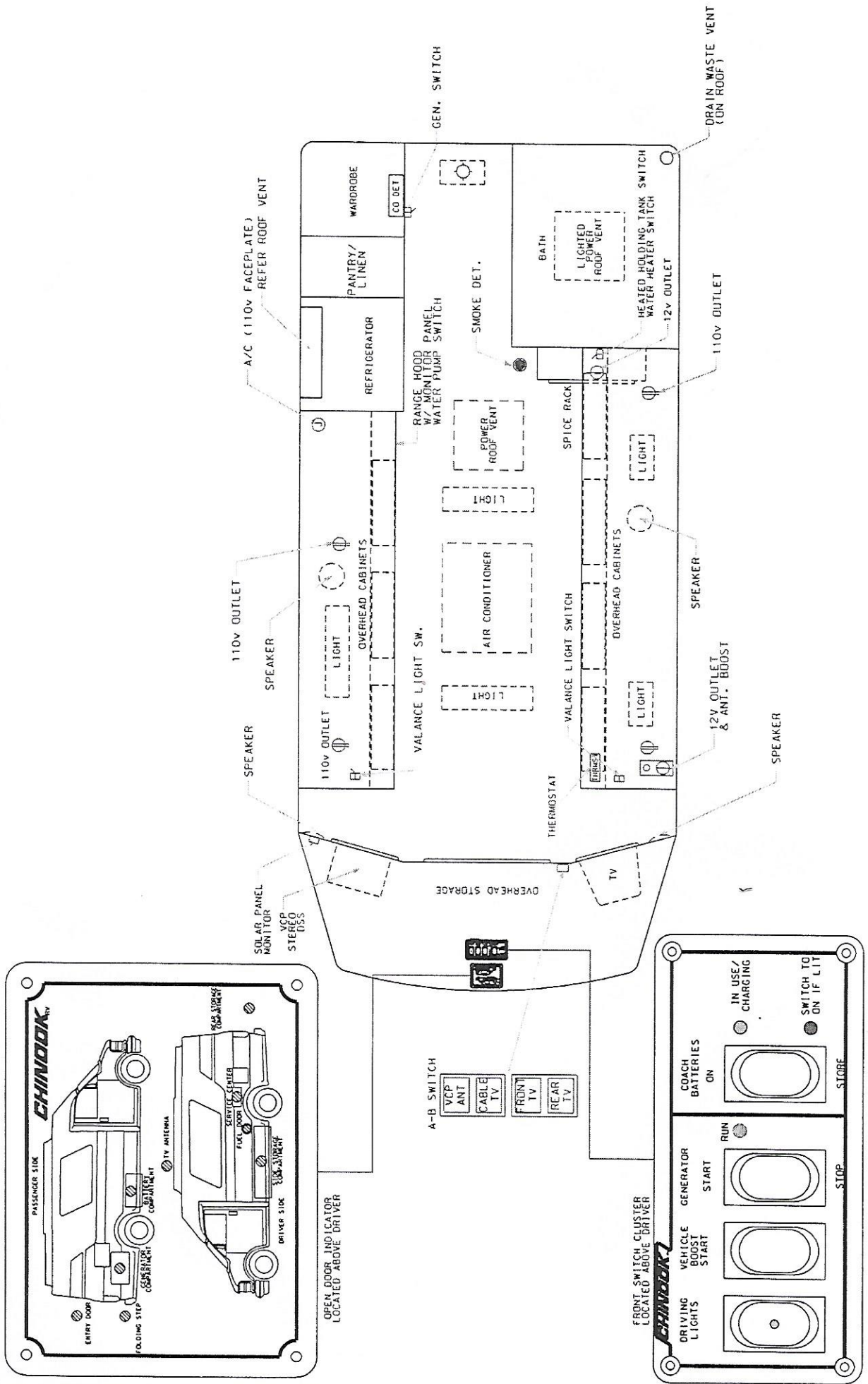


Diagram illustrating the layout and components of a motorhome, showing various tanks, electrical systems, and structural elements.

Key components and labels include:

- GROUND LUGS: GENERATOR, 12V, CIRCUIT GRND, REFER
- GENERATOR DOOR
- CONNECTION TO COPPER FURN REFR AND RANGE
- BATTERY/ STORAGE DRAWER
- PARTITION
- BATTERY
- STORAGE
- MANCHESTER LPG TANK (18.8 GAL.)
- LP GAS FILL
- 50A & 15A AUTO RESET BREAKERS
- CONNECTION TO REGULATOR ON TANK
- CHASSIS FRAME RAILS
- COACH BATTERY FRAME GROUND LUG
- LPG FRAME GROUND
- LPG FRAME GROUNDS
- GREY TANK
- BLACK TANK
- CONNECTION TO COPPER FOR WATER HEATER
- GAS FILL
- DUMP VALVES
- CONVERTER
- TRANSFER SWITCH
- 12V CIRCUIT GRNDS

GHIVOOK RV

DESTINY 2400

FIGURE 10.4
ELECTRICAL SYSTEM

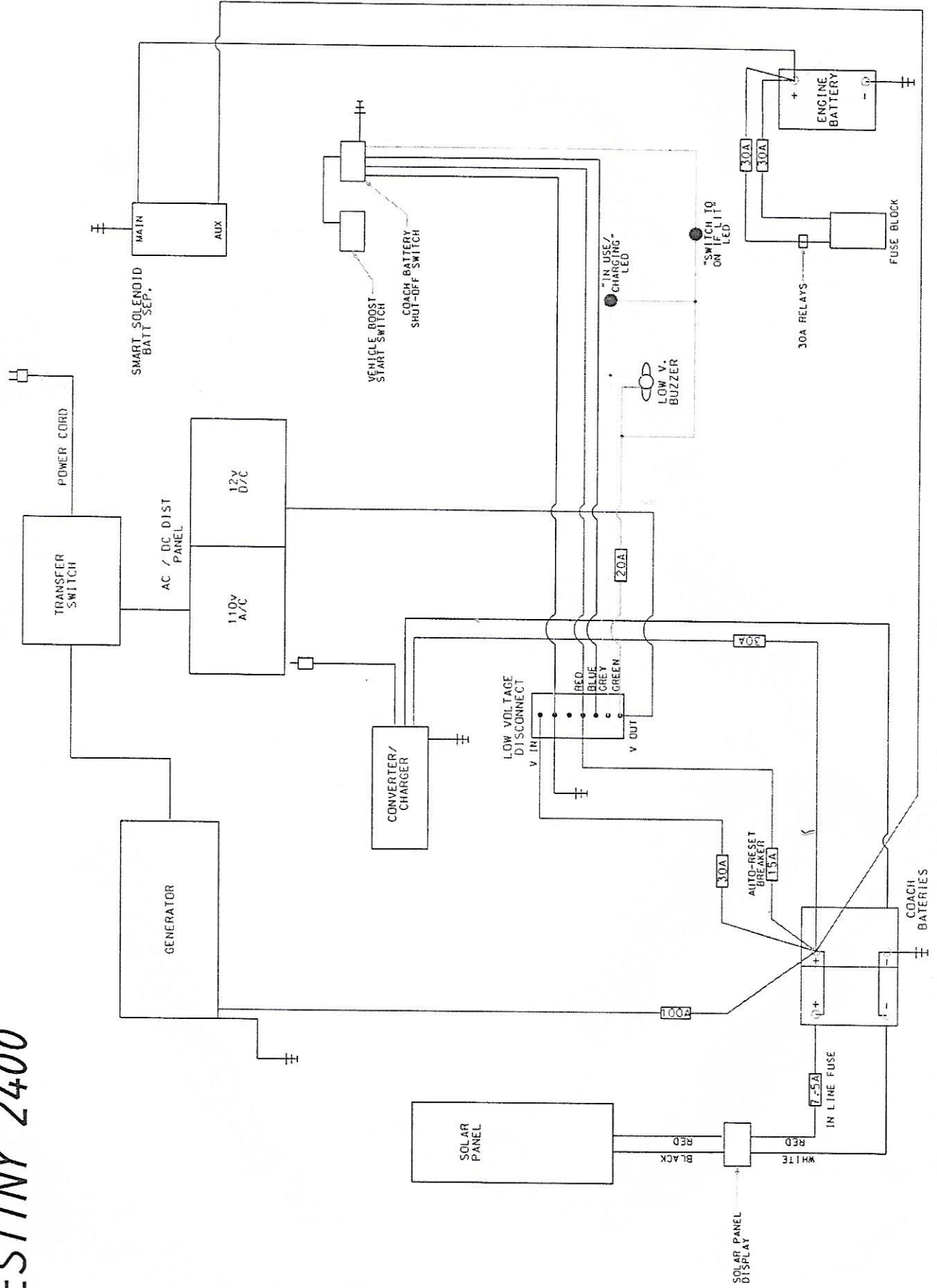
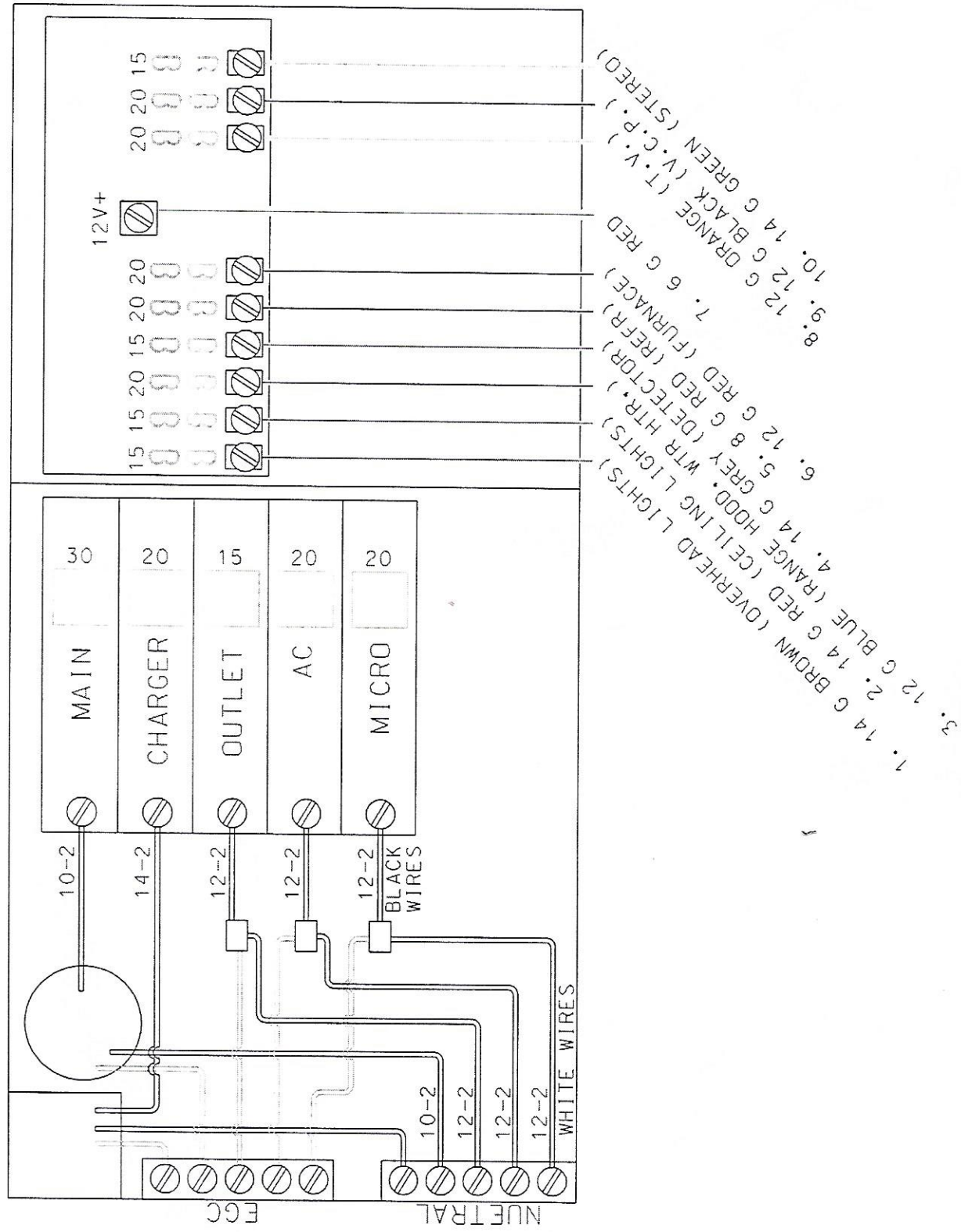


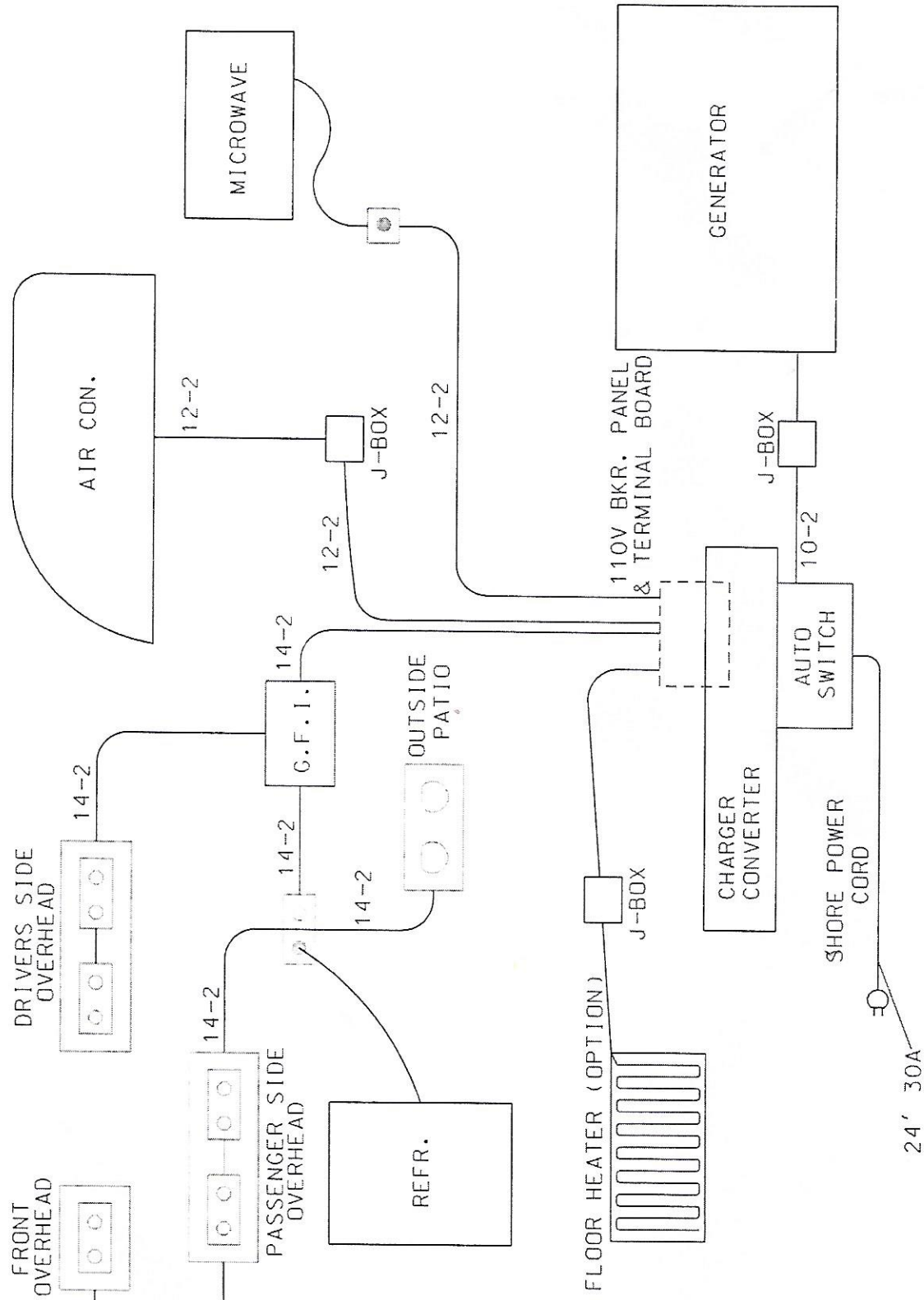
FIGURE 10.5
DISTRIBUTION PANEL



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DESTINY 2400

FIGURE 10.6
110V LAY-OUT

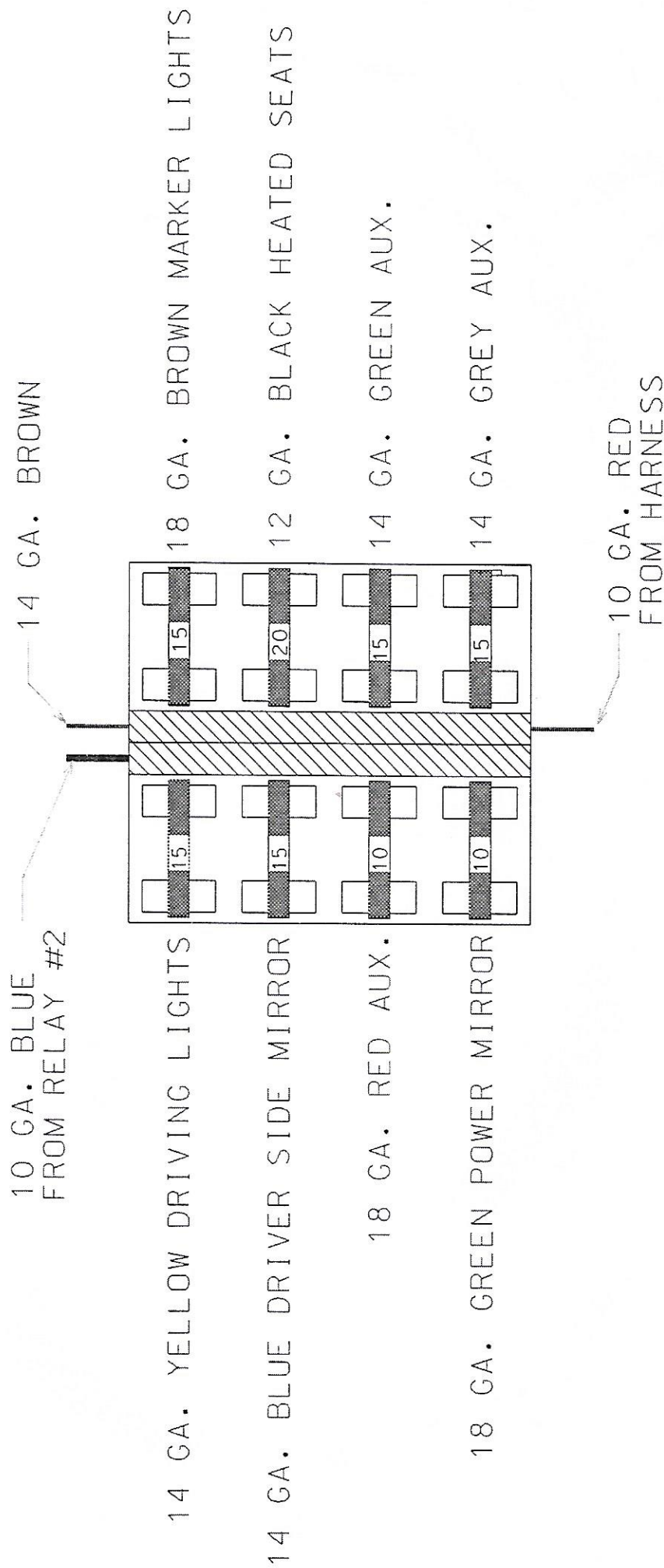


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RV

DESTINY 2400

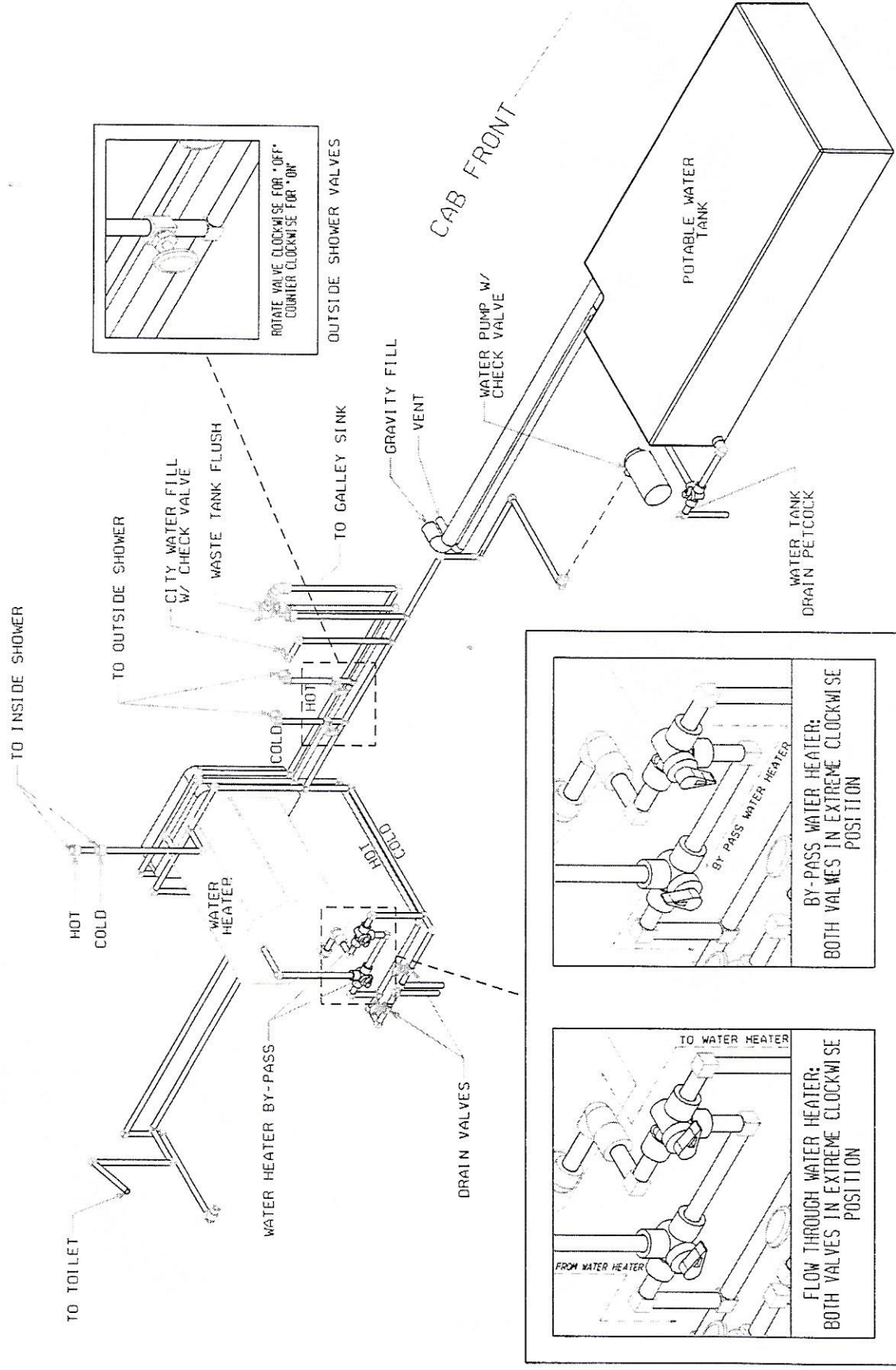
FIGURE 10.7
FUSE BLOCK (UNDER DASH)



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DESTINY 2400

FIGURE 10.8
FRESH WATER SYSTEM



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FIGURE 10.9
WASTE WATER SYSTEM

