

AREAS OF CAUTION

GASOLINE IS DANGEROUS

Take extreme caution at a place near gasoline because a potential explosive or fire hazard exists at all times.

- Never use open flame or sparks near gasoline.
- Never fill the fuel tank near the generator set while the engine is running.
- Wipe off any spilled gasoline immediately and thoroughly. Never start the engine when the area is wet with gasoline.
- Always have a fire extinguisher nearby. Ensure that the extinguisher is properly maintained and be familiar with its proper use so that you can use it effectively in an emergency. Extinguishers rated ABC by the NFPA are suitable for oils, electrical and general use. Consult the local fire department for the correct type of extinguisher for various applications.

CURRENT FLOW IS INVISIBLE.

Careless handling can cause an electric shock. Pay utmost attention to the handling of electricity.

- DO NOT apply water or oil directly to the generator set during cleaning.
- DO NOT touch switches with wet, oily or dusty hands.

- Be sure to turn off start/stop switch and disconnect negative (-) battery cable. If it is not disconnected, and someone turned the start/stop switch on during servicing, **death or severe injury may result by electrical shock or damage from suddenly moved parts.**
- When handling electrical equipment, never wear personal jewelry, damp clothing or wet shoes. Also, be very careful not to allow skin surfaces to be damp. Since these articles constitute conductors of electricity, they are very dangerous to you.
- DO NOT connect the generator set to household wiring. This could cause trouble for the equipment used or electric leakage. It can also produce extreme hazard to anyone working outdoors on utility lines to restore power.
- Be sure to follow all state and local electrical codes. All installations and repairs must be performed by a qualified, licensed electrician.

WARNING

Please affix the following marking at the recreational vehicle distribution panel board:

"WARNING: Hazard of electric shock, engine is to be OFF before servicing."

WARNING

Ground fault circuit interrupters are not provided on the generator set. For safety, they should be installed in the recreational vehicle wiring system to protect all branch circuits.

ALWAYS KEEP GENERATOR SET AREA CLEAN

DO NOT leave tools, cloth, etc. around the generator set. If they are left around the set, it is possible they could be thrown during operation and possibly cause injury to bystanders; or they may be caught in the rotating parts and cause damage to the unit. Fires may occur if flammable material contacts the hot exhaust pipes.

Completely wipe off deposits of grease and oil, etc. Remove all cloth, wood pieces, oil cans, etc. to maintain a space necessary for the generator set. Keep generator set dry at all times. Failure to observe this note may cause overheating or fire.

NEVER OPEN THE RADIATOR CAP WHEN WATER TEMPERATURE IS STILL HIGH

Failure to observe the caution will cause pressurized vapor or hot water to blow up, resulting in scalding yourself.

OTHER HANDLING INSTRUCTIONS

- Never modify the generator set.
- DO NOT use the generator set for applications except recreational vehicles.
- DO NOT operate or work on the generator set when you are mentally or physically fatigued.

The contents and specifications of this manual may be partly revised due to the continuing improvements in the design without advance notice and without incurring any obligation to us.

WARNING

The Dometic Corporation recommends that all service including installation of replacement parts be done only by persons qualified to perform electrical and/or mechanical service. From the standpoint of possible injury and/or equipment damage it is imperative that the service person be qualified.

Exhaust Gases are Toxic.

Exhaust gases include toxic components such as carbon monoxide. Therefore, inhaling exhaust gases can lead to losing consciousness or death. Carbon monoxide is an odorless and colorless gas. It will cause the following symptoms to a person inhaling it:

- Dizziness
- Vomiting
- Weakness
- Throbbing In Temples
- Headache
- Muscular Twitching
- Sleepiness

If you feel one of the toxic symptoms above, immediately go out to the fresh air. Stop the generator set. Never operate it until it is thoroughly checked and completely repaired.

- Adequately and properly discharge exhaust gases to the atmosphere.
- DO NOT operate the generator set where ventilation is poor because of closely built houses or obstructions since the exhaust gases tend to stay.
- At regular intervals, check the exhaust system for leaks.
- DO NOT operate the generator set with its discharge port directed to houses, passersby or livestock.

Keep fire away from the battery

Fire near the battery is extremely dangerous. Flammable gases which vaporize from the battery may be ignited or exploded.

- DO NOT allow the battery to be shorted or sparked.
- DO NOT inspect the battery electrolyte level with open flame of a lighter, match, etc.

DO NOT TOUCH BATTERY ELECTROLYTE

- If battery acid contacts the skin, it will cause dermatitis. If it contacts clothing, it causes corrosion.
- If the battery electrolyte gets into your eyes, immediately flush your eyes with lots of cold water and consult a doctor.

POTENTIAL DANGER EXISTS WHEN ENGINE IS RUNNING

- Be sure to operate the generator set with the protective cover installed correctly.
- DO NOT bring your hands close to the rotating parts.
- DO NOT wear ties, loose-fitting jackets, shirts or sleeves during the operation, for there is a possibility they may be caught in the rotating parts.

INSTALLATION CHECKSHEET

Prior to initial start-up of generator set, address each of the following installation review items. For a safe and effective installation, each answer must be affirmative; if not, that aspect of the installation should be reworked or provision made to satisfy the requirement.

1. Does the exhaust system extend to the perimeter of the vehicle, and not below an openable window or door?
2. Are all required exhaust clamps, hangers and support straps in place?
3. Is the generator compartment sealed around all the edges?
4. Is the fuel line installed correctly and secured against vibrations?
5. Does the installation allow free movement of generator set on its mounts?
6. Are all fuel connections and hose clamps tight?
7. Is there 155 sq. inches of free air inlet?
8. Is generator set protected from direct road splash from vehicle wheels?
9. Can the following routine maintenance items be performed through vehicle's access door?
 - A. Change oil filter
 - B. Carburetor adjustments
 - C. Start/stop the unit
 - D. Change air filter
 - E. Governor adjustments
 - F. Operate AC circuit breaker
 - G. Change spark plugs
 - H. Change ignition points
10. Are fuel lines and electrical wires run separately?
11. Are wiring holes into the inside of coach (including the inside of AC conduit) sealed to prevent passage of exhaust gases?
12. Has rubber boot been installed on battery positive (+) lead at the start solenoid?
13. Are all electrical leads connected and protected, and conduit is adequately supported?

STARTING & CHECKING THE GENERATOR

1. Start the generator.
If the generator fails to start even when the remote control switch is pressed for ten seconds, wait 15 seconds. Then press the remote control switch. If the generator still fails to start even after the previous operations have been repeated three times, press the stop switch. Next, try to start the generator by pressing the switch located on the control panel of the generator. If the generator starts, check to see if any wrong connection is present in the remote control switch wiring.
2. If the generator starts, check to see if the fuel system exhibits any fuel leakage. If any fuel leakage is discovered, immediately stop the generator and fuel supply. Repair the fuel leakage.

WARNING

Fuel presents the hazard of explosion or fire which can result in severe injury or death. If any fuel leaks are found, shut down the generator set immediately and have the leak repaired as soon as possible.

3. Check to see if the fuel line is interfering with any other part. Any interference may damage the fuel line.
4. Check to see if the exhaust system exhibits any exhaust gas leakage. If any exhaust gas leakage is discovered, immediately stop the generator and repair the leakage.

WARNING

Exhaust gas presents the hazard of severe personal injury or death. DO NOT operate the generator set if it is excessively noisy. Have it inspected and repaired immediately by an authorized Dometic service center.

WARNING

EXHAUST GAS IS DEADLY!

Exhaust gases contain carbon monoxide, a poisonous gas that can cause unconsciousness and death. It is an odorless and colorless gas formed during combustion of hydrocarbon fuels. Symptoms of carbon monoxide poisoning are:

- | | |
|-------------|-------------------------|
| - Dizziness | - Muscular Twitching |
| - Vomiting | - Weakness & Sleepiness |
| - Headache | - Throbbing in Temples |

If you experience any of these symptoms, get out into fresh air immediately. Shut down the unit and do not use the unit until it has been inspected.

The best protection against carbon monoxide inhalation is proper installation and regular, frequent visual and audible inspections of the complete exhaust system.

If you notice a change in the sound or appearance of the exhaust system, shut the unit down immediately and have it inspected and repaired at once by a competent mechanic.

3. INSTALLATION PROCEDURE FOR EXHAUST SYSTEM (See FIG. 18)

- A. Temporarily mount telescoping tube to engine exhaust pipe.
- B. Fit muffler to telescoping tube and determine distance from generator compartment base to top of muffler.
- C. Remove telescoping tube and cut to length required for your installation. A minimum of 3 inches MUST BE maintained between generator base and top of muffler.
- D. Refit telescoping tube to engine exhaust pipe, trapping exhaust pipe gasket between telescoping pipe and engine exhaust pipe.
- E. Slide connector flange over telescoping pipe and connect to engine exhaust pipe using two (2) bolts provided.
- F. Fit and position muffler over telescoping tube. Install U-clamp over pipe from muffler. **NOTE:** Leave U-clamp nuts loose enough so muffler can be turned as necessary.
- G. Install muffler holder around muffler with straight section up. Install bolt provided into bottom hole of muffler holder and tighten.
- H. Fit extension bracket up to engine muffler bracket and determine length required to attach to muffler holder. Remove extension bracket and cut to required length.
- I. Install extension bracket to engine muffler bracket and muffler holder with bolts provided.
- J. Re-check and tighten all bolts securely as required.

WARNING

Exhaust gas presents the hazard of severe personal injury or death. Use only exhaust equipment supplied with the generator set and support as shown.

DO NOT terminate exhaust gas under vehicle. **DO NOT** exhaust system directly under any vent, window or opening which can be opened and which is not permanently sealed from the vehicle living space. **Keep all openings closed when the generator set is running.**

CAUTION

Excessive exhaust back pressure can cause engine damage. If tailpipe deflector is used, make sure it is large enough to prevent back pressure.

DO NOT connect the generator set exhaust to the vehicle exhaust system since water vapor from one engine can damage the other.

4. TAILPIPE RECOMMENDATIONS

An exhaust tailpipe is NOT supplied because of the different requirements each installation might require. After the muffler is installed and prior to installing exhaust tailpipe, refer to the following recommendations for helpful tips and safety considerations.

WARNING

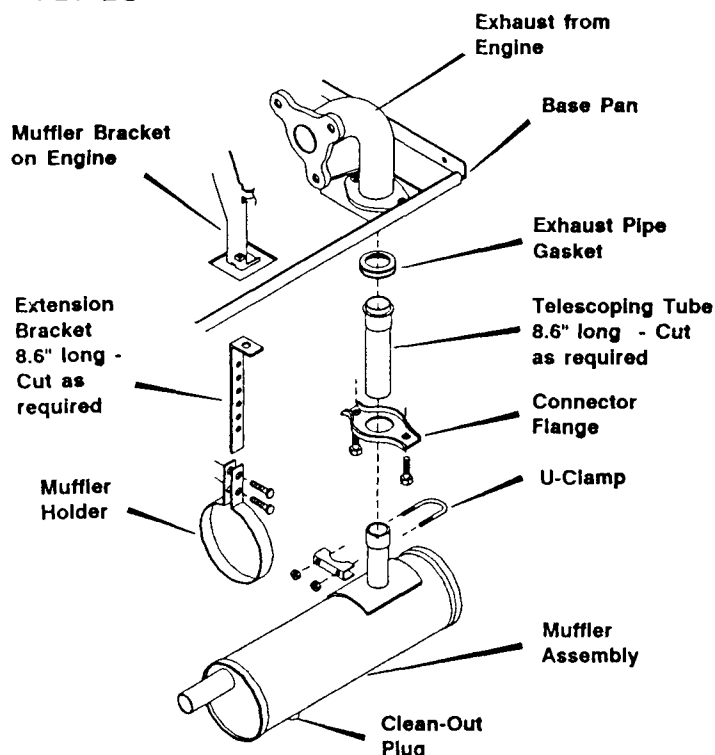
Exhaust gas presents the hazard of severe personal injury or death. **DO NOT** use flexible exhaust tailpipe since it can leak or break due to road shock or vibration. **DO NOT** end exhaust system under the vehicle. Direct exhaust gases away from any window, door, or compartment openings. **DO NOT** operate the generator set without an exhaust tailpipe.

- A. Use U-bolt type automotive muffler clamps marked 1-3/8 inch to secure muffler and tailpipe.
- B. If tailpipe extends beyond 1-1/2 feet (0.46mm) from muffler, attach an automotive tailpipe hanger for additional support.
- C. The exhaust system should be supported at or near the perimeter of the vehicle to prevent the pipe from being damaged and pushed up under the coach.

CAUTION

Angular mounting of muffler and tailpipe hanger brackets can result in exhaust system damage. Properly mounted hanger brackets will absorb much road shock vibration and prolong the usefulness of exhaust system components. Mount muffler and tail pipe hanger brackets directly above the component supported, not at an angle. **DO NOT** twist the hanger when making the installation.

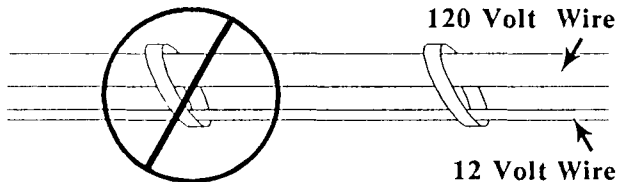
FIG. 18



- 1) Select location for control panel. Use template to locate proper cutouts.
- 2) Following national and local electrical codes and using #18 or larger insulated wires of predetermined length, connect remote control to generator set. Refer to FIG. 14 for wiring connections.

CAUTION

Electrical Induction can occur when DC wires are run with AC wires and can cause operational problems.



- 3) Insert remote control in hole cutout and secure with wood screws supplied with switch.

WARNING

Exhaust gases present the hazard of severe personal injury or death. Seal all holes to prevent entrance of exhaust gases into recreational vehicle interior.

- 4) When wiring is complete, turn on the main switch and then check for proper operation by starting and stopping generator set at the generator control and from the remote control panel.
- 5) If the set starts by itself or cannot stop, turn OFF the main switch and then check for short circuited remote control wiring.

WARNING

Batteries present the hazard of explosion which can result in severe personal injury. Because batteries give off explosive gas, install the battery in a separate compartment from the generator set or any other spark-producing device.

Batteries present the hazard of explosion which can result in severe personal injury. Because batteries give off explosive gas, DO NOT smoke or allow any arc-producing devices in the battery area. DO NOT disconnect battery cables from the battery while the generator set is cranking or while it is running. This causes arcing and can result in an explosion.

E. Charging Function:

The generator is capable of charging the battery automatically.

EXHAUST SYSTEM

Plan each individual exhaust system carefully. A proper installation is not only vapor-tight, but usually quieter and safer too. Be sure to check all applicable standards, local codes, and regulations.

1. GENERAL

A. MUFFLER KIT RECOMMENDATIONS

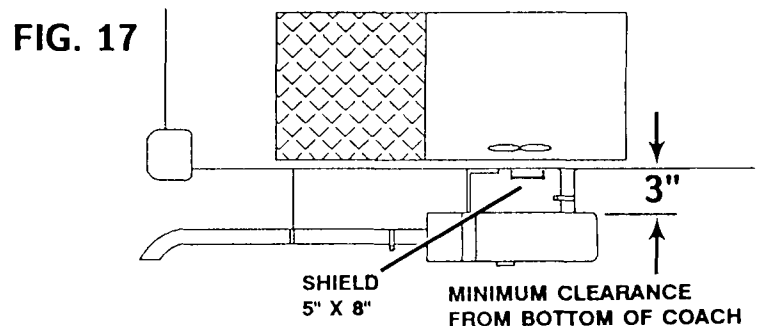
For assured safety, be sure to install the designated muffler. A spark arrestor is built into the muffler supplied with the unit.

The Dometic Corporation is not liable for damage, injury or warranty expense when an unapproved or modified muffler is used.

- B. Utmost attention must be paid so that no exhaust gas is recirculated from the air inlet opening into the engine. Try to terminate the tailpipe a foot off the generator set air intake to reduce the possibility of exhaust recirculation, by directing the exhaust down and to the rear.

2. INSTALLATION GUIDELINES (FIG. 17)

- A. The exhaust system must be no closer than 3 inches (76mm) from combustible materials. Furthermore, the exhaust system must be insulated or shielded so that the temperature of any combustible material may not rise more than 117°F (65°C) above the ambient temperature.



- B. A 5" X 8" piece of galvanized steel is provided with the generator and is packed with the muffler assembly. Use this part to shield the floor of generator compartment directly over muffler assembly. Attach to floor directly over and centered on muffler. Place 1/4 in. flange toward generator compartment. Attach with two (2) screws through shield and into generator compartment base.

2. 12 VOLT DC WIRING

CAUTION

Incorrect connections can damage control, remote switch and interconnecting wiring. Ensure that leads from remote switch connect with the corresponding terminals on generator set.

A. BATTERIES AND CONNECTIONS:

The generator set should crank sufficiently under various operating conditions. Before making any battery connections, choose a battery and cables which are appropriate for the anticipated application and devise an adequate battery installation area.

Battery and Cable Selection: Choose a battery that suits the generator set current rating. The starter has a current draw of 60 to 100 amperes. The inrush current is 300 to 400 amperes.

Consider application and weather conditions. For reliable cold weather starting, voltage drop from the battery terminals to the generator set starter should not exceed 0.12 volts per 100 amperes of current while the generator set is cranking. Refer to the following tables to aid in determining cable size and battery rating.

Recommended Battery and Cable Size:

Cold Region 12 V 95 A/H	Cable Length		Recommended Cable Size12 V
	Feet	Meters	
	0 - 10	0 - 3	No. 2
	11 - 15	3 - 4.5	0
	16 - 20	4.5 - 6	000

B. BATTERY COMPARTMENT

Use a separate battery from the vehicle starting battery for the operation of the generator set. House the battery in its own compartment, away from the generator set and any spark-producing device. For ventilation purposes, build the compartment with a minimum of 1.7 in² (11cm²) opening at the top and 1.7 in² (11cm²) opening at the bottom.

Mount the battery on a rigid support structure and in a location where leaks and accidental spills won't damage the set or battery.

WARNING

Batteries present the hazard of explosion which can result in severe personal injury. Because batteries give off explosive gas, install the battery in a separate compartment from the generator set or any spark-producing device.

C. Battery Connections (Ref. FIG. 15):

- 1) Route the battery cables between the generator set and its starting battery. Ensure the cables

are sufficient length, but do not connect to battery until instructed in Installation Instructions. Provide adequate support of battery cables to avoid abrasion wear due to vibrations when vehicle is in transit

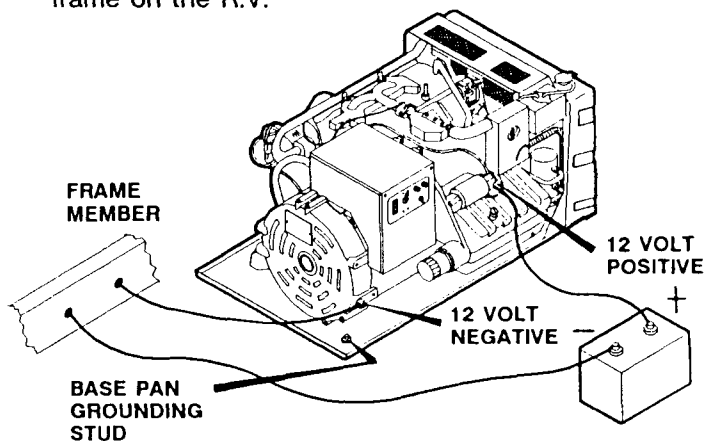
- 2) **Positive (+) Battery Cable:** Connects to the start solenoid. Assemble the positive terminal boot cover supplied in the accessory kit onto the generator end of the cable. Connect the positive cable end to the starter solenoid terminal, tighten securely, and place terminal boot over connection. Use recommended cable sizes.

CAUTION

Failure to protect positive terminal can result in personal injury and/or equipment damage if electrical short to control casting would occur. Ensure that terminal connection is secure and boot protector is properly in place.

- 3) **Negative (-) Battery Cable:** Connect battery negative (-) post to a frame member of the R.V. Use cable of recommended size. Be sure to remove any paint on frame member before attaching cable to insure good contact.
- 4) **Negative (-) Generator Cable:** Connect generator negative (-) stud to a frame member of the R.V. Use cable of recommended size. Be sure to remove any paint on frame member before attaching the cable to insure good contact.

NOTE: As an alternative to Steps 3 and 4, for short runs: The negative (-) battery cable may be tied directly to generator negative (-) stud. Use recommended cable size. If this method is used, connect a #10 AWG wire from base pan grounding stud to frame on the R.V.



CAUTION

Turn off the main switch located on the control panel of the generator before performing installation or service. This protects the unit from damage and protects a person from injury.

D. Remote Control: The remote control panel contains the following items:

1. Panel
2. Switch
3. Harness
4. Lens

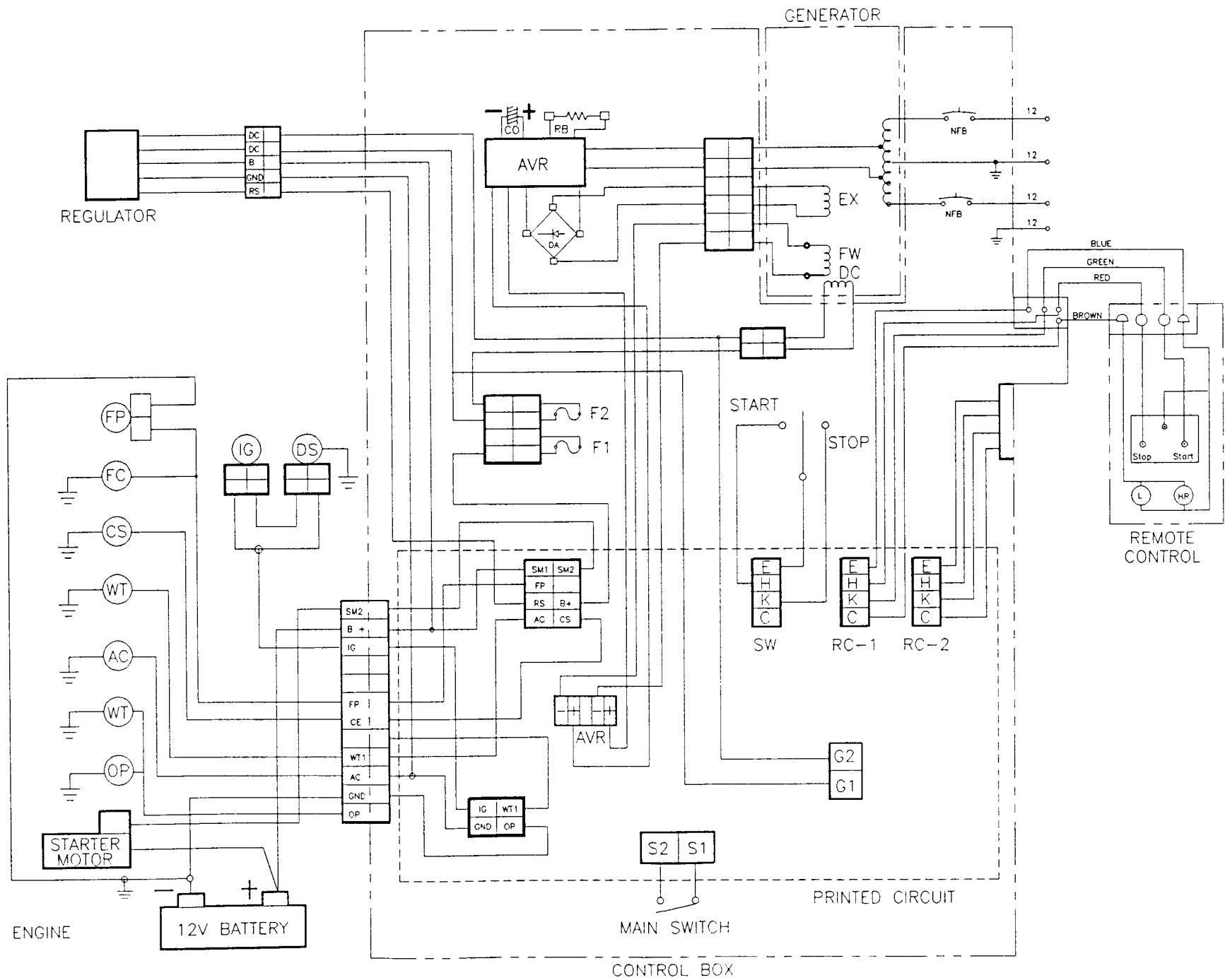


FIG. 15
Wiring Diagram 7.0 kVA

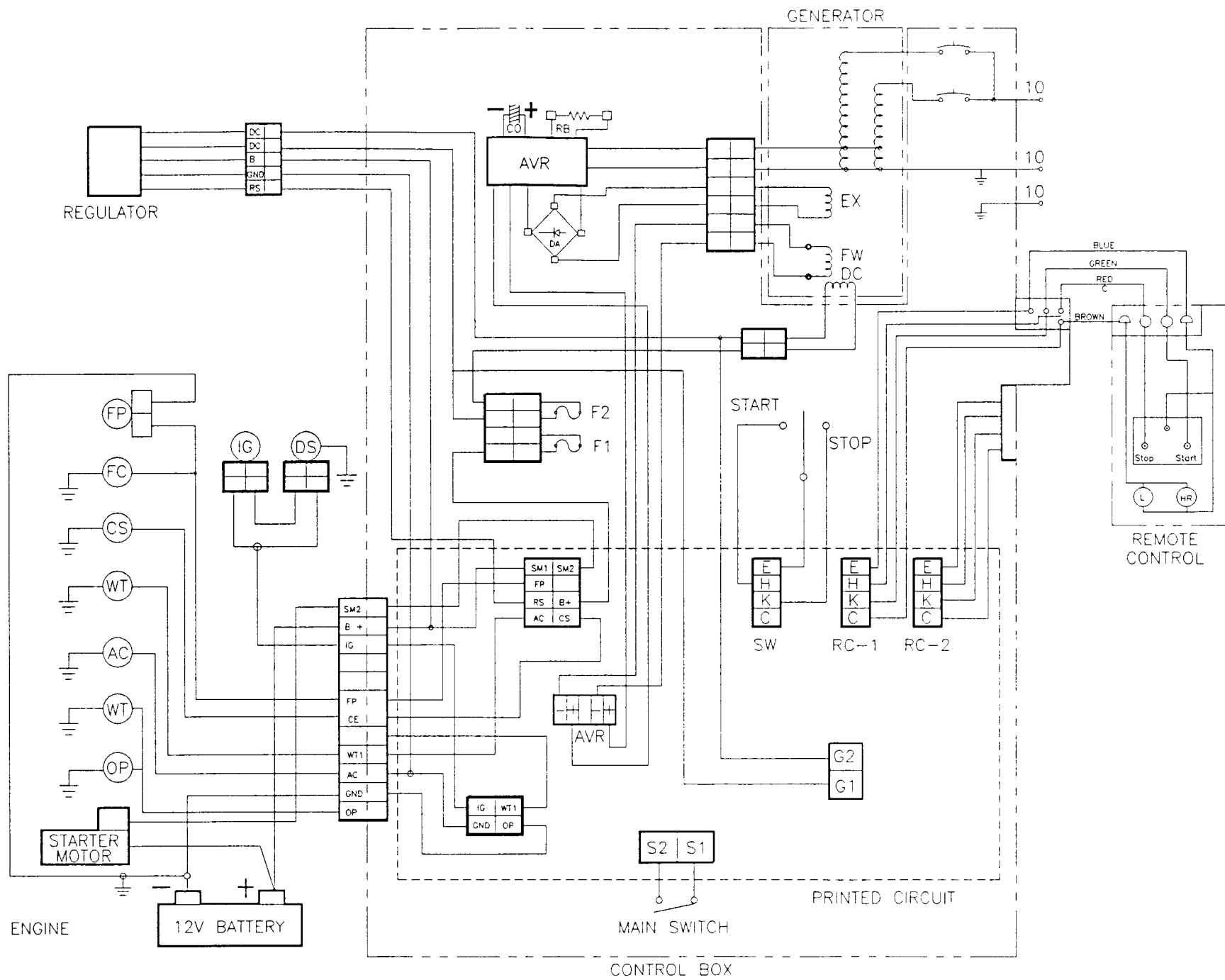


FIG. 14
Wiring Diagram 4.0 kVA

ELECTRICAL CONNECTION

All wiring must meet applicable local electrical codes. A qualified electrician should install and inspect the wiring.

Mount switches and controls securely to prevent damage from vibration and road shocks. All switches must be vibration-proof to prevent accidental opening or closing while the vehicle is in motion.

1. AC WIRING (Ref. FIGS. 13 & 14)

- A. The AC Load Conductors of the Generator Set:
Wires connected to the output leads of the generator must be suitable for 90°C (194°F) or be of a larger wire size than the output leads of the generator set.

CAUTION

If the AC load conductors are shorted, there are possibilities that breakage, burning or other damage may take place at the generator side and/or the load side (electrical appliances). Hence, care must be exercised to take precautionary measures to prevent a short.

CAUTION

Turn off the main switch located on the control panel of the generator before performing installation or service. This protects the unit from damage and protects a person from injury.

WARNING

Exhaust gas presents the hazard of severe personal injury or death. To prevent exhaust gas from entering vehicle interior, seal all openings made for conduit, wiring, etc. Seal wiring within conduit itself.

B. CONDUIT

The generator load conductors furnished along with the generator set should be installed in a flexible metallic conduit. Cut conduit to desired length. At this point, extra wire must be left as required for the junction box. Furthermore, wires to be used for connections should be adequately sized and insulated in accordance with the specified current rating.

Route the conduit so that no interference with the movement of the generator set may occur.

C. WIRING DISCONNECT METHOD

The output conductors from the generator compartment must terminate in a 120 volt double-pole, double-throw with positive OFF switching device before connection to the vehicle distribution panel or connection to a generator set receptacle box. This is to prevent the outside power connection to the generator output at the same time. (See FIG. 13)

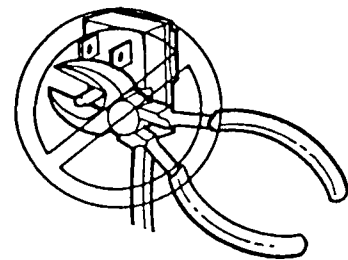
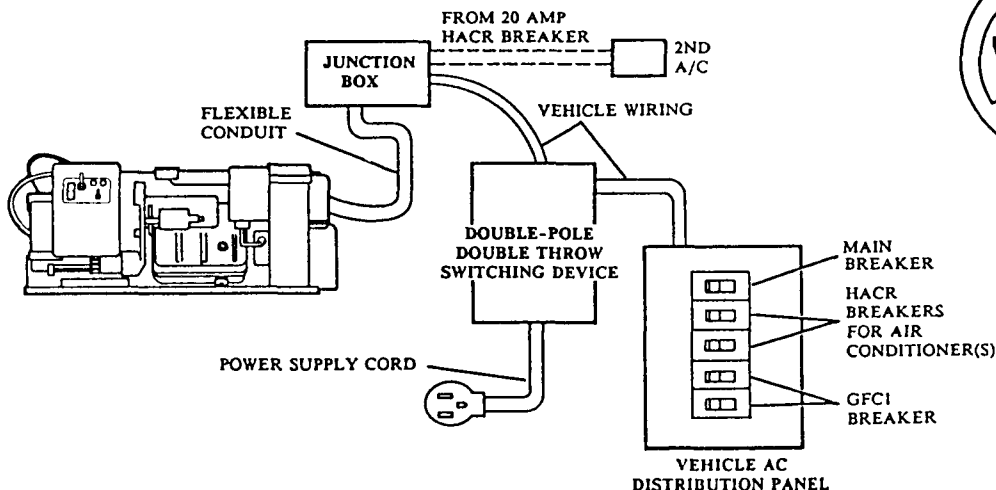
WARNING

Electrical shock can cause severe personal injury or death. Use only approved power supply assemblies. NEVER remove grounding pin from assemblies.

Incorrect or no ground can cause the recreational vehicle to become electrically "hot".

FIG. 13

SWITCHING DEVICE WIRING FOR UTILITY POWER



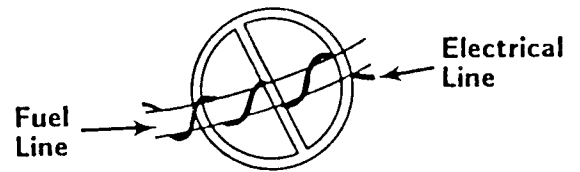
5. FUEL LINE (FIG. 12)

- A. The fuel line between the generator and the vehicle fuel system must meet the following requirements:

A minimum of 12 inches in length of a non-metallic fuel hose approved for this type of use. This hose is to absorb vibration.

A fuel shut-off valve, approved for this type of use, between end of flexible fuel line and the vehicle fuel system. This valve is used to shut off fuel flow to the generator if necessary.

- B. **NEVER** wind any electrical wiring around the fuel line from the vehicle fuel tank to the generator nor allow the electric wiring to make contact with the fuel line.

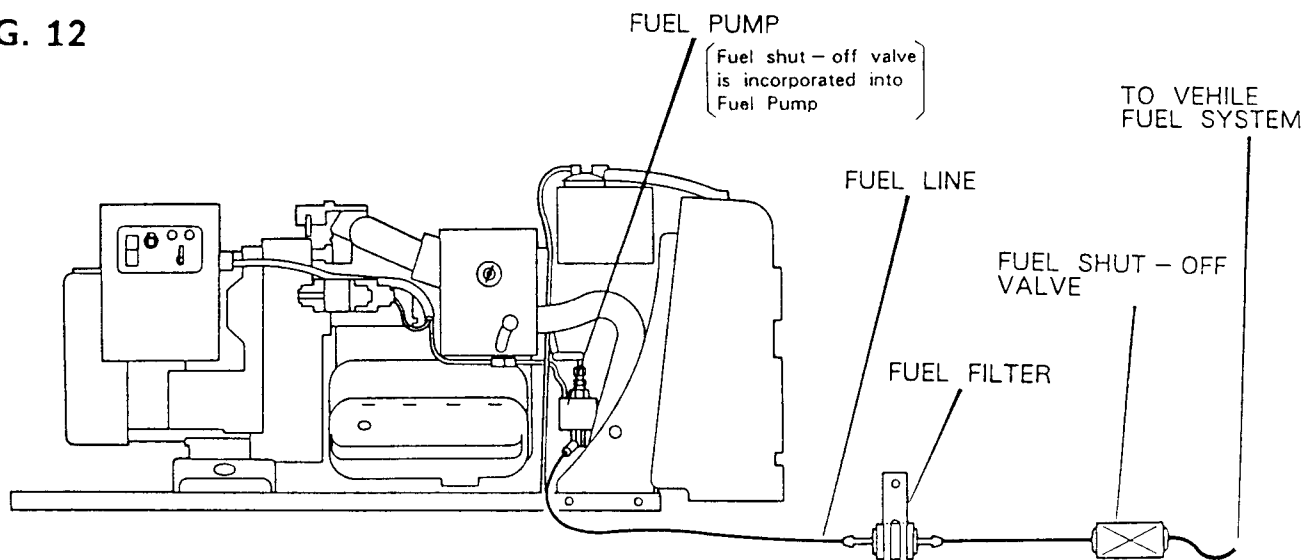


C. IMPORTANT

To prevent vapor-lock, the fuel line must be positioned as far away as possible from the generator exhaust system or other heat generating sources.

- D. Care must be exercised as to length of fuel line so that the generator vibration may be absorbed and fuel line is not stretched, bent or broken.

FIG. 12



WARNING

Fuel presents the hazard of fire or explosion which can result in severe personal injury or death. DO NOT smoke or allow any ignition sources in the installation area. Keep a type ABC fire extinguisher nearby. The ventilation system of the installation area must provide a constant flow of air to expel any accumulation of fuel vapor while the vehicle is in transit. Compartments must be vapor-tight to the interior to prevent any fumes from entering the vehicle interior.

1. GENERAL

- A. Use the vehicle fuel tank also as the fuel system for the generator.
- B. When connecting the fuel system of the generator to the vehicle fuel tank, carefully follow the instructions concerning the vehicle fuel system.

WARNING

Recreational vehicle fuel systems are designed to operate in a critical pressure range. It is very important during the installation of the generator set that the vehicle fuel supply design NOT be altered. The fuel fill tube, fill limiter vent, vapor canister, vapor lines and gas fill cap should never be changed, removed or replaced without PRIOR approval from the vehicle manufacturer. Unauthorized fuel system modification could result in dangerous operating conditions.

CAUTION

Connecting the generator set fuel line with a tee to the main fuel line will result in the generator set starving for fuel when the vehicle is operated at highway speeds. The generator set fuel pump has neither the capacity nor the power to overcome the draw of the vehicle engine fuel pump. Use a separate fuel line for the generator set.

WARNING

Gasoline presents the hazard of explosion or fire which can result in severe personal injury or death. DO NOT connect the generator set fuel line to the pressurized part of the vehicle fuel system. Flooding of the generator set engine and compartment can occur, resulting in a fire hazard.

- C. The fuel pump on the generator is provided with a check valve to prevent reverse fuel flow; therefore, when the generator is not running, no significant amount of fuel leaks out to the generator side - even if a positive pressure is being applied from the fuel tank at the vehicle side.

2. FUEL

- A. Recommended Fuel: Use unleaded gasoline.

CAUTION

DO NOT USE LEADED (REGULAR) GASOLINE.

Lead deposits can cause engine damage if not removed before using unleaded gasoline.

- B. If you must use gasoline which is likely to contain dirt or dust in a great amount, be sure to provide a pre-filter.

3. FUEL CONSUMPTION CHART:

It should be noted that the fuel consumption varies depending upon the loads being put on the generator.

	Unloaded	50% Loaded	100% Loaded
Kwyatt 4	0.32 gal/h (1.2 liter/h)	0.50 gal/h (1.9 liter/h)	0.74 gal/h (2.8 liter/h)
Kwyatt 7	0.42 gal/h (1.6 liter/h)	0.71 gal/h (2.7 liter/h)	1.14 gal/h (4.3 liter/h)

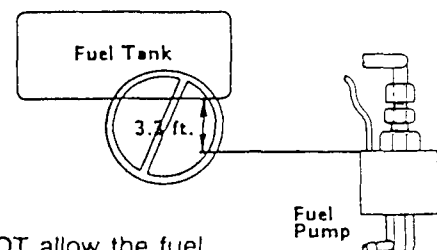
4. FUEL TANK POSITION

To prevent overflowing into the generator compartment, attention must be paid to the position of the fuel tank.

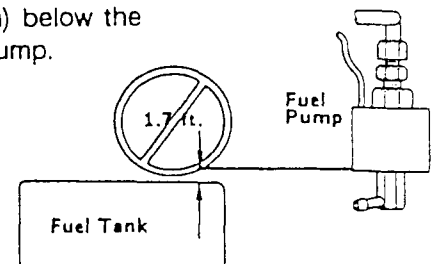
NEVER allow the fuel tank to be located more than 3.3 ft. (1m) above the fuel pump.

DO NOT allow the fuel tank to be located more than 1.7 ft. (.52 m) below the fuel pump.

FIG. 11



DO NOT allow the fuel tank to be located more than 1.7 ft. (.52 m) below the fuel pump.



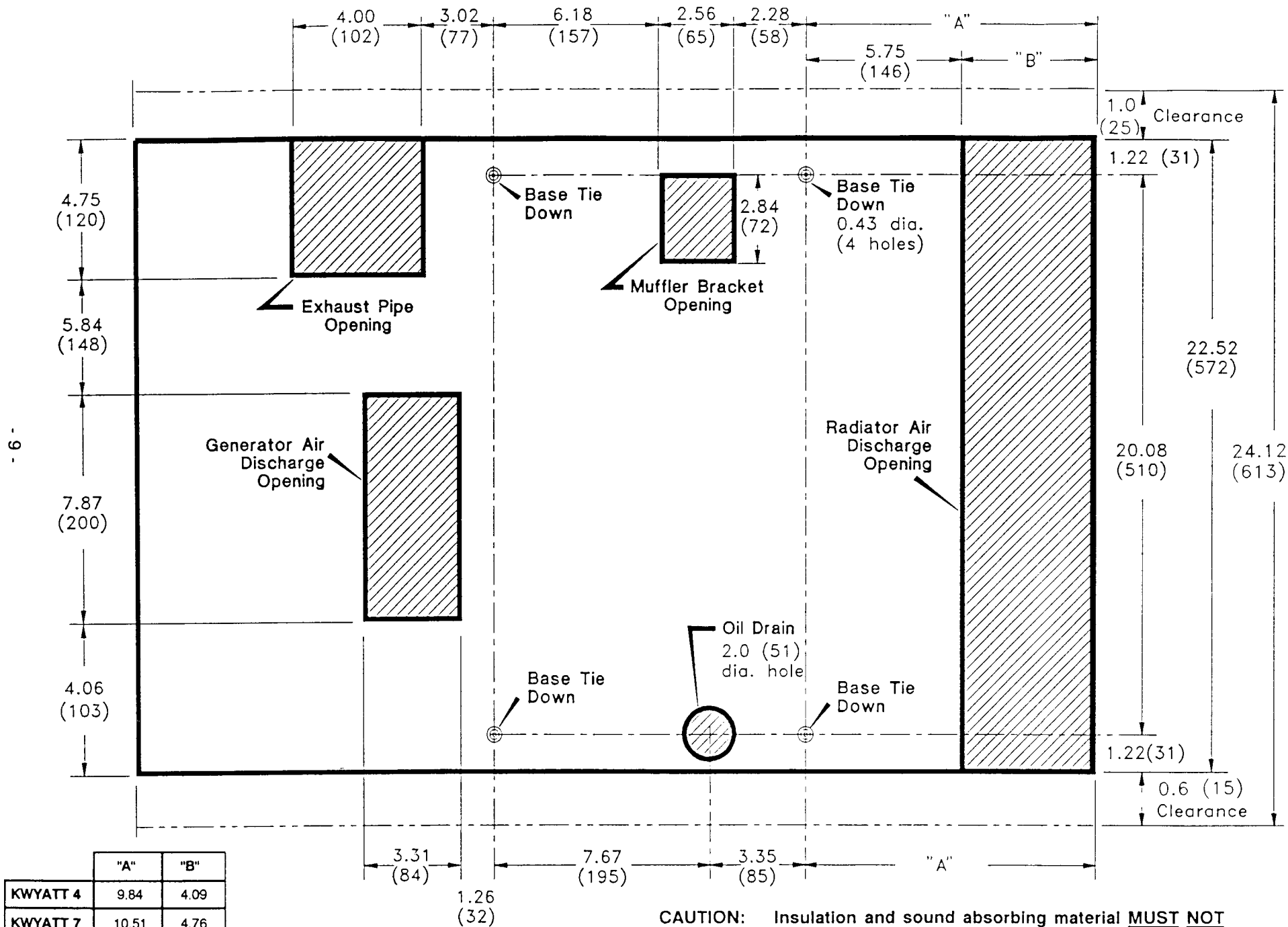


FIG. 10

COMPARTMENT MOUNTING

WARNING

Exhaust gases present the hazard of severe personal injury or death. Make the compartment walls vapor-tight to the interior of the vehicle to prevent exhaust fumes from entering the vehicle coach.

1. GENERAL

- A. The compartment must be constructed in accordance with all local, state and national codes and/or regulations. At a minimum, the installation must comply with the latest edition of the following:

National Electrical Code (NFPA70)

Standard for Recreational Vehicles (ANSI 119.2)

- B. Separate the compartment area from the living quarters with vapor-tight walls and ceilings.

2. COMPARTMENT FRAME

- A. The generator must be bolted to a metal frame which is either bolted or welded to frame of vehicle. This frame must be designed to withstand a minimum force of 50 G in any direction.
- B. Additional support members may be required to give adequate support of frame to minimize vibration.

3. COMPARTMENT WALLS AND CEILING

The following minimum clearance between generator base and top to the walls and ceiling must be maintained:

	Rear	Front	Right	Left	Ceiling
In. (mm)	1.0 (25)	0.6 (15)	0	0	0.6 (15)

CAUTION:

Insulation and sound absorbing material **MUST NOT** reduce specified clearances.

NOTE: It is recommended that additional clearance be added to compartment to allow easy access to parts that may need maintenance or adjustment.

Seal all joints and corners and fill any holes so that compartment is vapor-tight.

4. COMPARTMENT FLOOR (Reference FIG. 10)

DO NOT use insulation or sound absorbing material on compartment floor.

The compartment floor must be constructed to prevent oil, fuel and water from accumulating.

- A. Drill and/or cut holes in floor per diagram in Figure 10. The openings for the radiator air discharge and generator air discharge are critical to the performance of the generator.

- B. A 3" X 18" piece of galvanized steel is provided with the generator and is packed with the muffler assembly. Use this part to line the floor exhaust opening. Form steel around walls of opening and bend top and bottom outward to hold in place. See FIG. 8.

- C. Fasten the generator to compartment frame and floor at four (4) places. Use grade 5 - 3/8-16 UNC bolts with flat and lockwasher to hold generator in place. (See FIG. 9)

FIG. 8

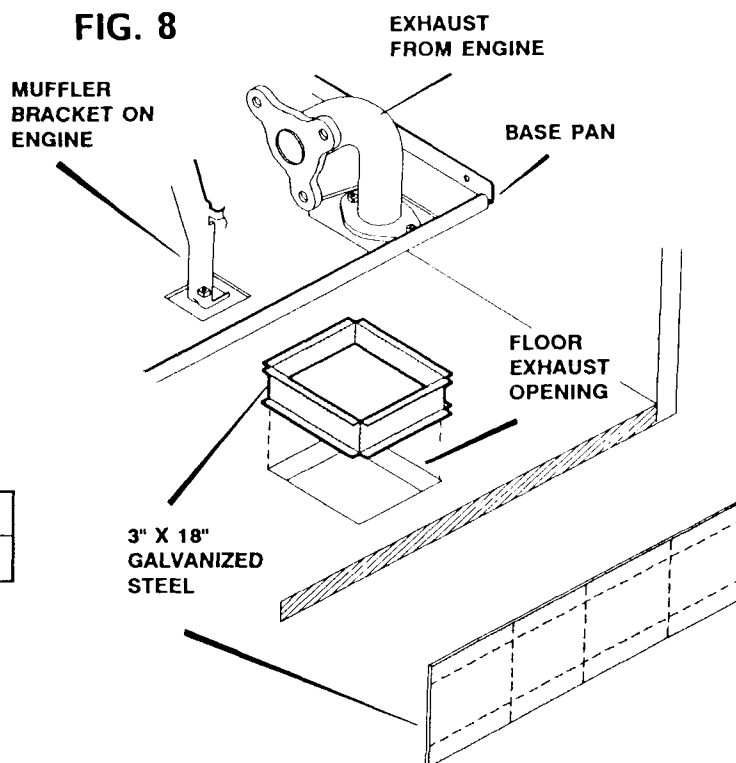
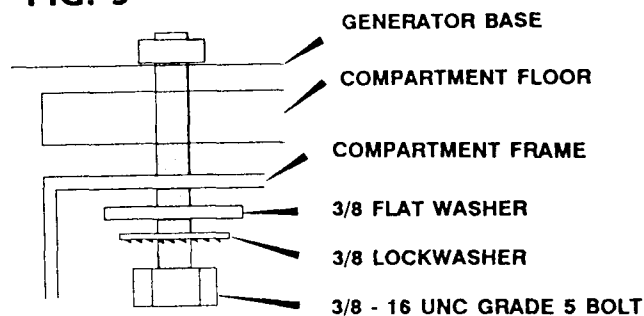


FIG. 9

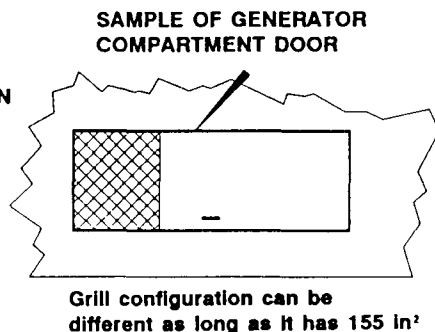


4. POSITION OF AIR INLET OPENING

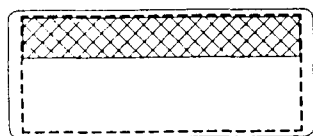
To assure the intended performance of the generator, the opening of the air inlet opening should conform to one of the examples shown below. (FIG. 6)

FIG. 6

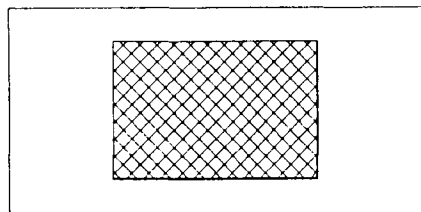
INSTALLATION POSITION
OF AIR INLET OPENING
KWYATT 4 & 7



Compartment Opening Section



Compartment Opening Section



Expanded Metal at Inlet Opening Section

NOTE: These views of air inlet openings are only suggestions. Air inlet openings must have 155 sq. in. of free air for proper operation of generator.

WARNING

EXHAUST GAS PRESENTS THE HAZARD OF SEVERE PERSONAL INJURY OR DEATH. SINCE DISCHARGED COOLING AIR CAN CONTAIN SOME EXHAUST GAS, NEVER USE DISCHARGED COOLING AIR FOR HEATING.

WARNING

Fuel or fuel leakage presents the hazard of fire or explosion which can cause severe personal injury or death. The ventilation system should provide a constant flow of air to expel any accumulation of fuel vapor. Compartments must be vapor-tight to the vehicle interior to keep fumes from entering the vehicle.

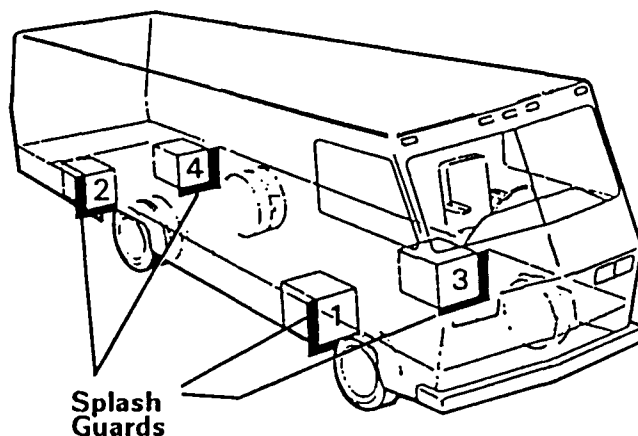
5. SPLASH GUARDS AND BAFFLES

(See FIG. 7)

Any openings must not allow dirt, rock, water or slush to directly hit the generator set. Dust and salt entering into the compartment must be minimized. Pay special attention to protection of the generator, control, choke, and governor areas. Baffles might be required to protect certain areas.

FIG. 7

Splash Guards installed with generator set in four possible locations.



WARNING

Dropping the generator set can cause severe personal injury or death. Always support the generator set so it cannot fall.

WARNING

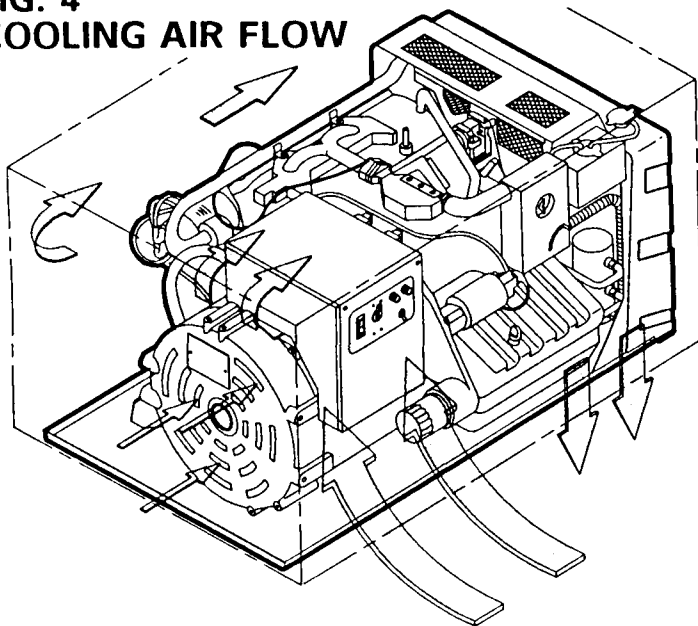
High temperatures in the compartment can present the hazard of fire which can result in severe personal injury or death. To meet UL, ANSI, and CSA temperature rise requirements for recreational vehicles, insulation must not reduce the clearance specified.

VENTILATION

1. GENERAL

- A. Following are the most important factors to be considered for the ventilation of the generator set.
- 1) Sufficient air intake for combustion and cooling;
 - 2) Adequate exhausting of air that has been used for cooling.
- B. A fan directly coupled to the engine draws air from the rear end (generator side) of the generator set across the engine. Then, the fan, after cooling the radiator, discharges the heated air out through the radiator cooling air discharge opening at the radiator cover. (See FIG. 4).

FIG. 4
COOLING AIR FLOW



- C. A fan is also built inside the generator. This fan draws air through the air inlet slits provided at the (rear) cover of the generator. After the inside of the generator has been cooled, the heated air is discharged through the air discharge opening in the bottom part of the generator.
- D. **MAKE CERTAIN** that the dimensions of the discharge air openings are properly cut in the floor to insure that smooth discharging of the cooling air will not be hindered. (See FIG. 10)
- Care must be exercised to ensure that discharged cooling air is not recirculated into the air inlet opening.

2. ACCESS DOOR FOR MAINTENANCE

- A. In order to perform maintenance and repairs for the generator set, an access opening should be provided at the side of the recreational vehicle.
- B. The size of this access opening should be large enough to permit the oil and coolant level inspection and filling of oil and coolant, the adjustments of carburetor and governor, the handling of control panel and the operation of circuit breaker switch, etc.
- C. Normally access door includes generator ventilation openings. See next sections on size and configuration of these openings.

3. AREA OF AIR INLET OPENING

On both Models KWAYTT 4 and 7, the effective area of opening necessary for cooling and combustion is 155 in² (0.1 m²).

Normally, the air inlet opening is provided with an expanded metal protective cover. Usually, its opening ratio ranges from 60% to 80%. For accurate ratio, ask the manufacturer of the expanded metal.

The following minimum requirement must be satisfied at all times:

$$\begin{array}{rcl} \text{Area of air} & \times & \text{Opening ratio} \\ \text{inlet opening} & & \text{of expanded metal} \end{array} = 155 \text{ in}^2 \text{ (0.1 m}^2\text{)}$$

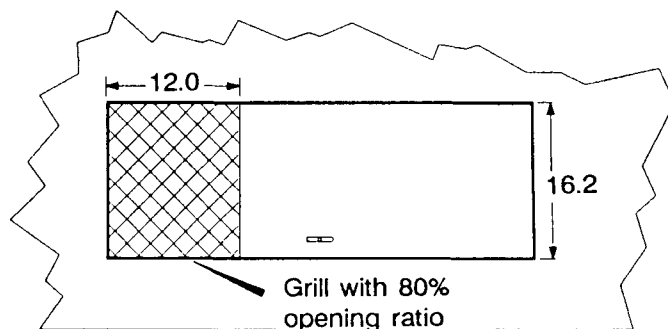
Example: (See FIG. 5)

Grille size: 12.0 in. X 16.2 in. = 194.4 in²

Open Area: 194.4 in² X 0.80 open ratio = 155.5 in²

FIG. 5

GENERATOR COMPARTMENT DOOR



Grill configuration can be different as long as it has 155 in.²

FIG. 2
EXTERNAL VIEW

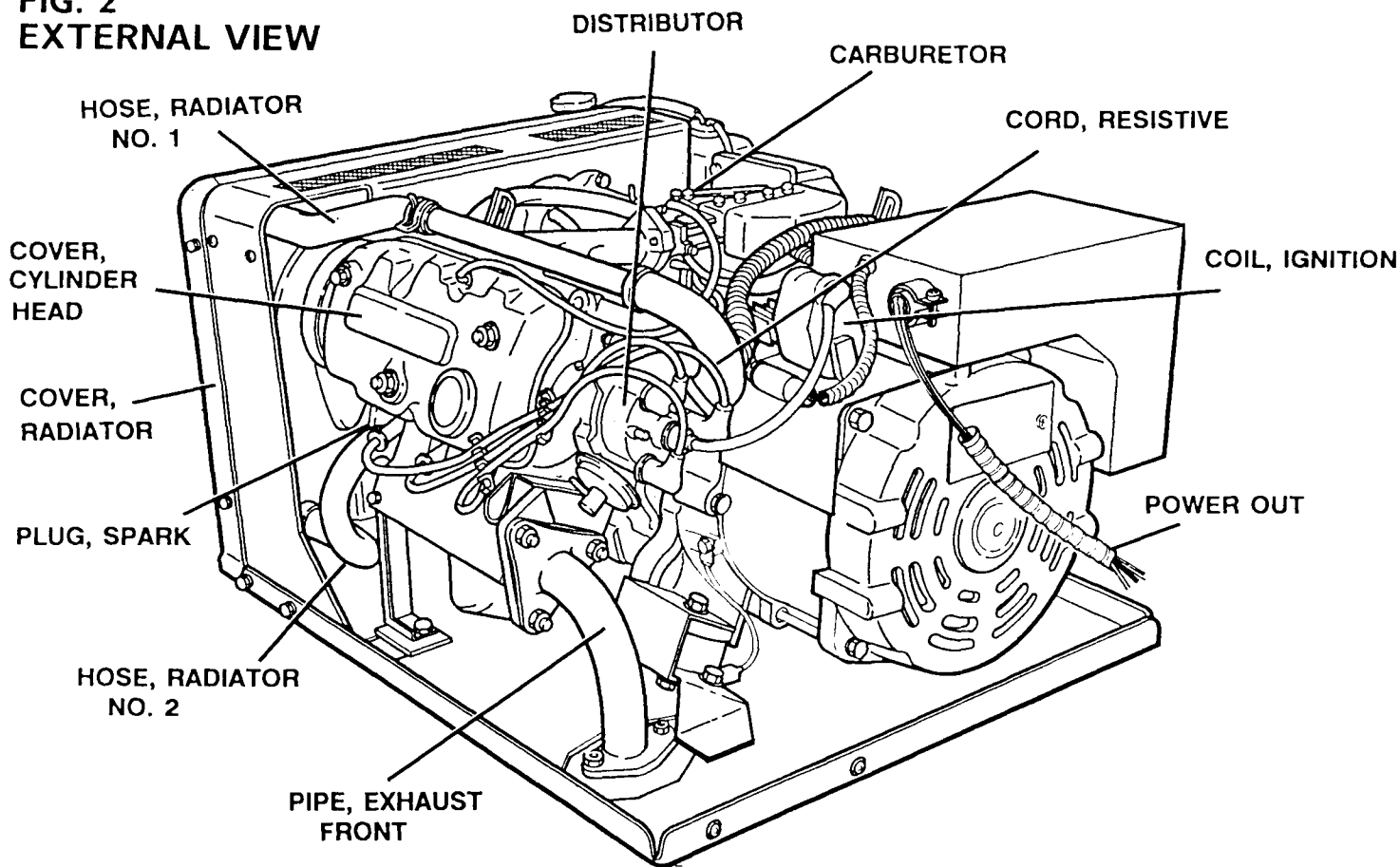
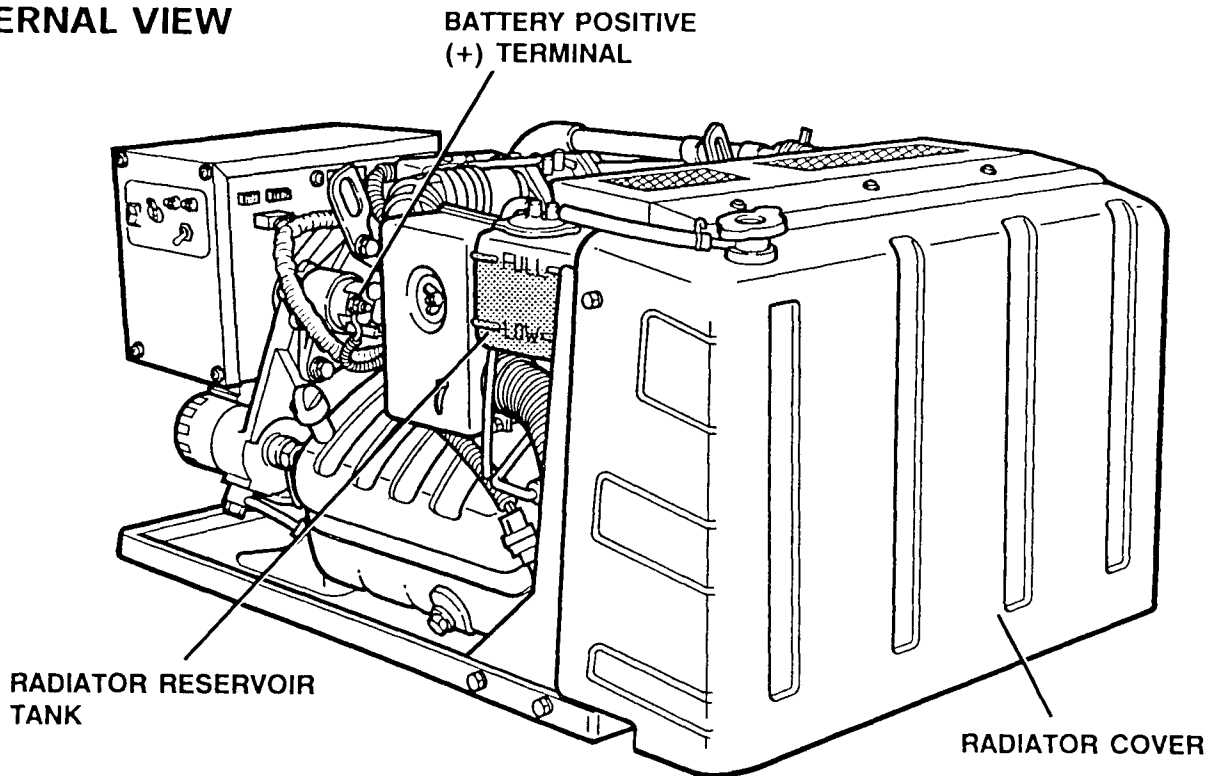


FIG. 3
EXTERNAL VIEW



INSTALLATION CODES

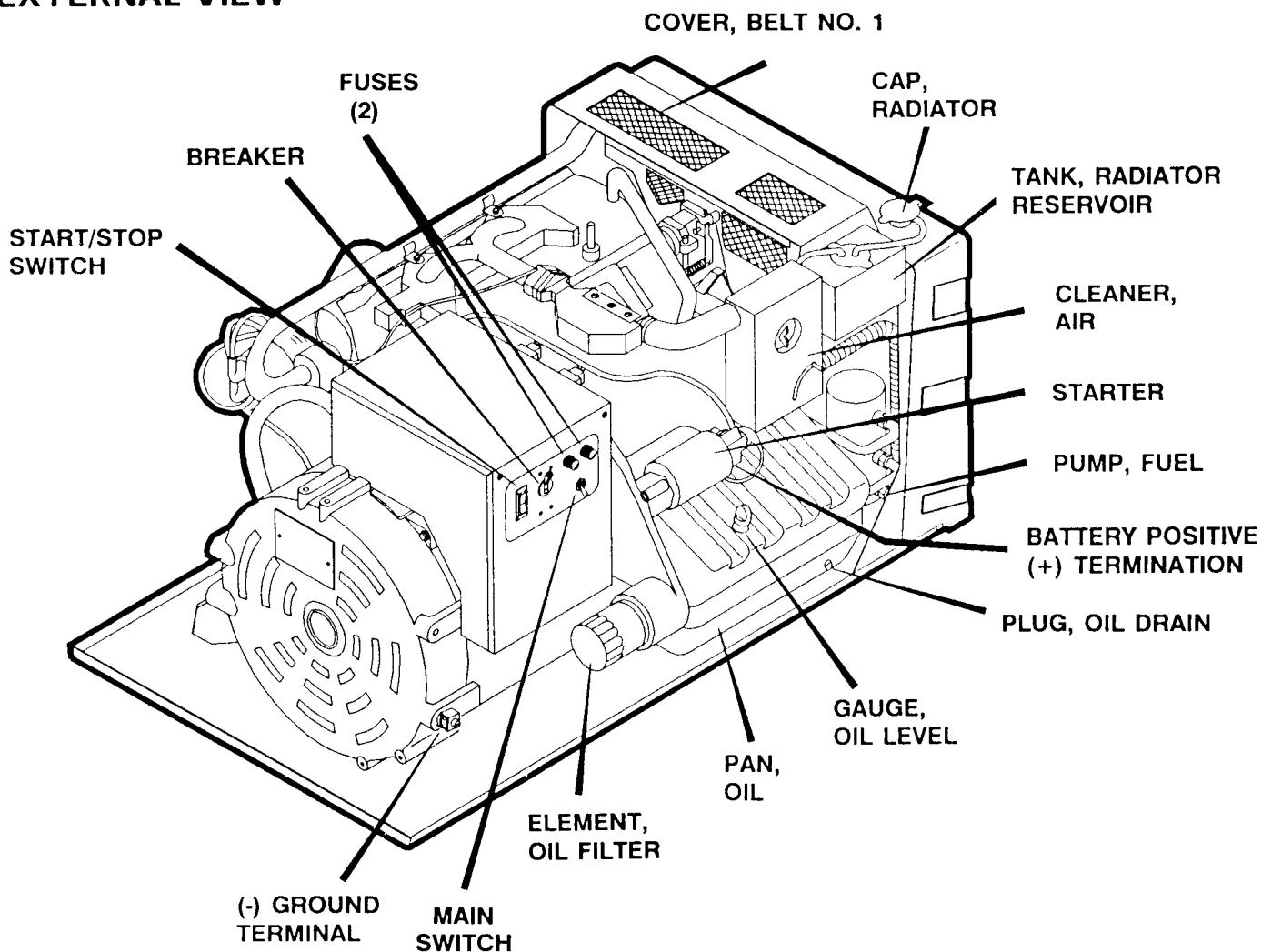
Each RV generator set must be installed properly if it is to operate reliably, quietly and most importantly - **safely**. Therefore, read the entire manual and all instructions before starting the installation. This manual details installation procedures for the Kwyatt 4 and Kwyatt 7 KW generator sets. For operation and maintenance procedures, refer to the Operator's Manual.

Listed and Certified: This generator set meets all UL and CSA listing requirements.

This installation must be in accordance with all local, state and national codes and/or regulations. At a minimum the installation must meet the National Electrical Code (NFPA70).

- Requirements to consider prior to the installation are listed below:
 - A. Level and supportive mounting surface
 - B. Adequate cooling air
 - C. Discharge of circulated air
 - D. Discharge of exhaust gases
 - E. Electrical connections
 - F. Fuel installation
 - G. Accessibility for maintenance and service.

**FIG. 1
EXTERNAL VIEW**



GENERAL INSTRUCTIONS

SYMBOL DEFINITIONS

Safety Precautions

The following symbols in this manual warn that you or your equipment are placed under potentially dangerous conditions according to equipment use.

Bearing such potential danger in mind, in accordance with the warning, it is important for you to take necessary precautionary measures so as to ensure safety.

WARNING

This symbol is used to remind you of a potential hazard or unsafe practice which can result in serious personal injury or death.

CAUTION

This symbol is used to remind you of a potential hazard or unsafe practice which can result in personal injury or equipment damage.

Fuels, electrical equipment, exhaust gases, batteries and moving parts have potential hazards that could result in serious personal injury.

THE CONTENTS AND SPECIFICATIONS OF THIS MANUAL MAY BE PARTLY REVISED DUE TO CONTINUING IMPROVEMENTS IN THE DESIGN WITHOUT ADVANCE NOTICE AND WITHOUT INCURRING ANY OBLIGATIONS TO US.

THE DOMETIC CORPORATION RECOMMENDS ALL SERVICE INCLUDING INSTALLATION OF REPLACEMENT PARTS BE DONE ONLY BY PERSONS QUALIFIED TO PERFORM ELECTRICAL AND/OR MECHANICAL SERVICE. FROM THE STANDPOINT OF POSSIBLE INJURY AND/OR EQUIPMENT DAMAGE, IT IS IMPERATIVE THAT THE SERVICE PERSON BE QUALIFIED.

GENERATOR SPECIFICATIONS

1. ENGINE

KWYATT 4	KWYATT 7
4-cycle, in-line 3-cylinder, water-cooled, gasoline, remote start, 12 volts, negative (-) ground starter.	

2. GENERATOR

	KWYATT 4	KWYATT 7
	4-POLE, MAINTENANCE-FREE TYPE, 60 HZ., SINGLE-PHASE, WITH BATTERY CHARGING FUNCTION	
OUTPUT	AC 4000 W	AC 7000 W
VOLTAGE	120 V	120V / 240V
CURRENT	33.4 A	58.4 A / 29.2 each leg

3. CONTROL

KWYATT 4	KWYATT 7
REMOTE START (EQUIPPED WITH TWO CONNECTORS) AND CONTROL PANEL ON GENERATOR UNIT.	

4. GENERATOR SETS

	KWYATT 4	KWYATT 7
Dimensions	In. (mm)	In. (mm)
Height	15.2 (385)	15.3 (388)
Length	32.2 (818)	34.4 (874)
Width	22.5 (572)	23.2 (589)
Serviced Weight without muffler, water and oil	276 lbs. (125 kg)	313 lbs. (142 kg)
Air requirements Air inlet opening area	155 sq. in. (0.1 sq. m)	155 sq. in. (0.1 sq. m)
Engine revolution speed (60 Hz.)	1800 rpm	1800 rpm
Ground	Negative (-) ground	Negative (-) ground
Battery Voltage	12 V	12 V
Battery Charge Rate (amps)	6.0 amps	6.0 amps

TABLE OF CONTENTS

	Page
Safety Precautions	3
Generator Specifications	3
Installation Codes	4
External Views of Generator Set	4-5
Ventilation	6-7
Mountings	8-9
Fuel System	10-11
Electrical Connections	12-16
Exhaust System	16-17
Starting Checks	18
Areas of Caution	19-20

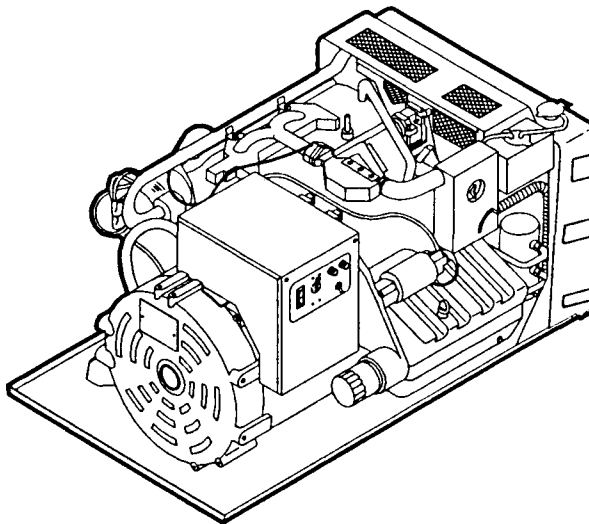


Kwyatt
(Say it like it  sounds ...QUIET)

GENERATOR SET

SERVICE OFFICE
The Dometic Corp.
509 So. Poplar St.
LaGrange, IN 46761

MODEL Kwyatt 4 & 7



INSTALLATION INSTRUCTIONS

MODEL
KWyATT
4.101 & 7.101