



### Air Duct Kit PA-228246 Model 2.5 CMZ RV Generator

The Air Duct Kit is designed to ensure proper cooling of the generator. Air is drawn into the compartment through the duct and past the fins on the cylinder head to cool the engine. Refer to the following procedure to install the Air Duct Kit.

#### NOTE

Remove the generator from the coach and mount in service stand before installing air duct kit.

#### REMOVING GENERATOR FROM COACH (GENERAL GUIDELINES)

1. Disconnect battery (negative lead first) to disable the generator.
2. Disconnect load leads, remote start/stop switch, manual choke (if used) and exhaust system at muffler connection.
3. Disconnect fuel line at fuel pump inlet. Cap fuel line and disconnect fuel line at fuel tank. Cap fuel tank connection. Drain all fuel from fuel line between fuel tank and generator. Remove entire fuel line from coach or cap and secure both ends of fuel line to prevent contamination.

#### WARNING

**FLASH FIRE!** When removing fuel line or carburetor, use a proper container to catch all fuel. Do not smoke or permit flame or spark to occur near carburetor, fuel line, fuel pump or other potential sources of spilled fuel or fuel vapors.

4. Remove mounting screws and existing duct work.
5. Remove generator set from coach and mount service stand kit PA-228102 (gold) or PA-228208 (beige). If service stand is not used, support generator set on tray flanges. **DO NOT REST STAND ON GENERATOR END BRACKET.**

#### INSTALLING AIR DUCT KIT

#### NOTE

Be sure the generator compartment is large enough to maintain minimum clearance requirements after installation of the air duct kit.

1. The air duct kit is supported by two brackets bolted to the generator mounting tray. Installation of the kit on older models requires drilling four 19/64 in. (7.4 mm)

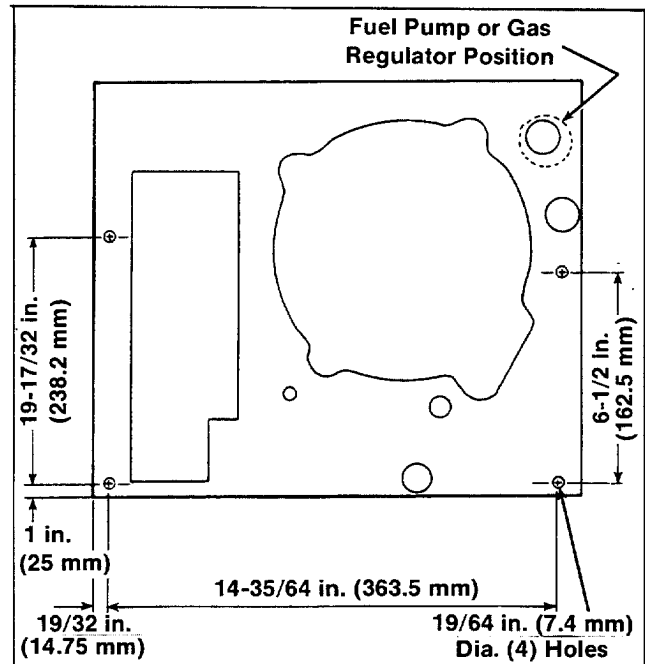


Figure 1. Drilling Template

holes in generator mounting tray. Refer to the drilling template in Figure 1. Newer models are equipped with trays predrilled for installation of the air duct.

2. Attach support brackets (228249 and 228250) to mounting tray using four screws (X-5-1), lock washers (X-20-1) and nuts (X-81-1). The offset bracket (with 45° bend) should be mounted adjacent to fuel pump, as shown in Figure 2.
3. Position the circular opening in the air duct (228247) over the foam seal surrounding the air intake of the engine. The rectangular opening of the air duct should be directly above the engine air cleaner. A snug fit is necessary between seal and air duct to ensure proper cooling of the engine. The seal will be compressed when the air duct is installed. The foam seal is included with the generator and must be in place prior to installation of the duct. Attach air duct to support brackets with four screws (X-5-1), lock washers (X-20-1) and nuts (X-81-1).
4. Slide the two retaining clips (X-6209-1) into position at rear edge of rectangular opening in air duct. See Figure 3 for placement of retaining clips.
5. Position baffle panel (228251) over rectangular opening in air duct. Secure rear edge of baffle panel with

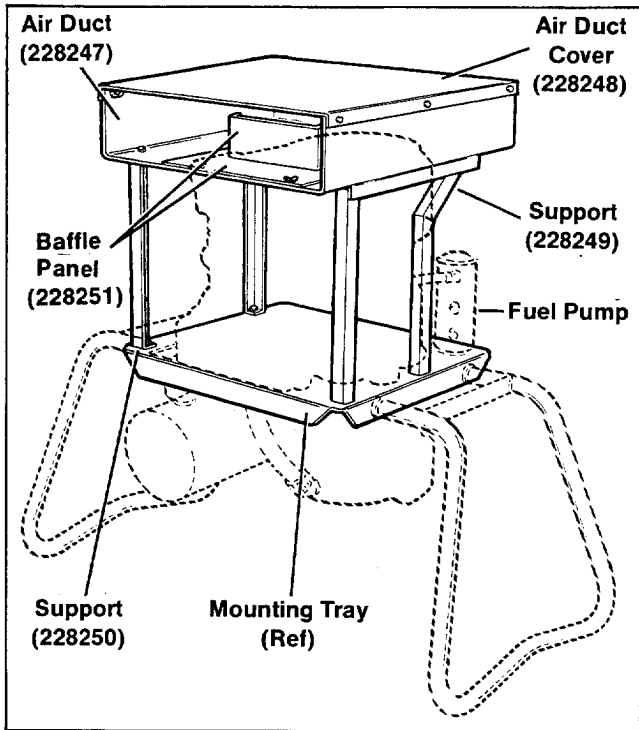


Figure 2. Bracket Position

retaining clips previously installed. Align hole in base of baffle panel with weld screw on bottom of air duct. Secure with wing nut (X-276-1). See Figure 3. The baffle panel can be removed to service the engine air cleaner.

- Position air duct cover (228248) on air duct assembly. See Figure 4. Align holes in cover with holes in air duct assembly and secure with seven screws (X-50-2) and lock washers (X-19-1).

**PARTS LISTING**

Part No.	Description	Qty.
X-19-1	Washer, Lock #10	7
X-20-1	Washer, Lock 1/4	8
X-276-1	Nut, Wing	2
X-5-1	Screw, H.C. 1/4-20 x 5/8	8
X-50-2	Screw, R.H.M. 10-32 x 3/8	7
X-6209-1	Clip, Retaining	2
X-81-1	Nut, Hex 1/4-20	8
228247	Duct, Air	1
228248	Cover, Air Duct	1
228249	Support, Air Duct	1
228250	Support, Air Duct	1
228251	Panel, Baffle	1

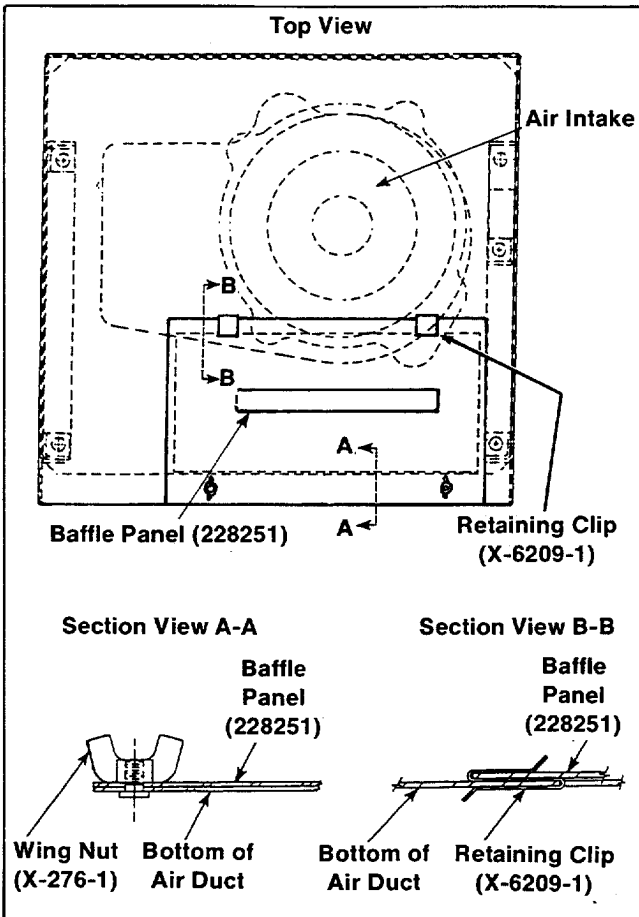


Figure 3. Installing Baffle Panel

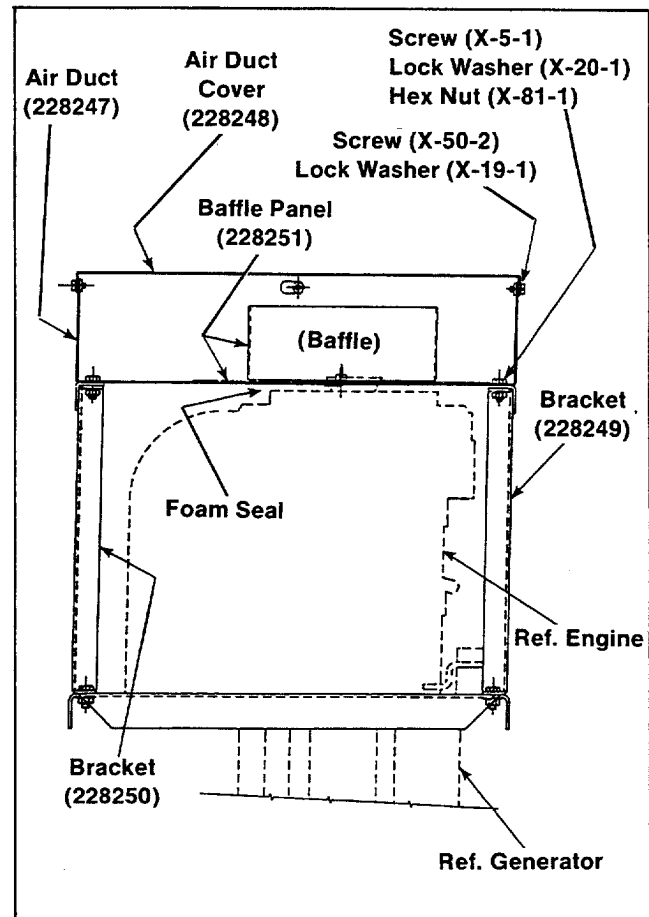


Figure 4. Air Duct Cover