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## Instruction Sheet

G206a 02-01

# Installation of Exhaust Tube Kits 155-2845 & 155-3481-xx

## GENERAL

Review the instructions and warnings included in this kit before starting the installation.

The exhaust system installation must comply with all applicable standards, local codes and regulations. Study the following recommendations.

The exhaust tube must be placed no closer than 3 inches (76 mm) from combustible material (wood, felt, cotton, organic fibers, etc.), or be so located, insulated or shielded that it does not raise the temperature of any combustible material more than 117°F (65°C) above the ambient air temperature.

The exhaust tube must extend a minimum of 1 inch (25 mm) beyond the perimeter of the vehicle. Do not terminate the exhaust tailpipe under the vehicle. Be aware that any vent, operable window, storage compartment, hole, crack or opening that is not permanently sealed from the vehicle living space can be an avenue for carbon monoxide to enter the living space.

The tailpipe must not terminate so that any vent, window, or opening into the living area is within the shaded circular area shown in Figure 1.

**⚠ WARNING** *Exhaust gas presents the hazard of severe personal injury or death. Do not terminate an exhaust pipe under the vehicle. The tailpipe must not terminate so that any vent, window, or opening into the living area is within the circular shaded area shown in Figure 1.*

To reduce the chance of damaging the exhaust tube and emitting exhaust gases under the vehicle, make certain that no part of the exhaust system intrudes into the departure angle or approach angle of the vehicle, unless it is protected by a skid bar or other protection device. Figure 1 illustrates typical mounting locations.

**⚠ WARNING** *Exhaust gas presents the hazard of severe personal injury or death. Do not mount any portion of the exhaust system inside the approach or departure angle unless it is adequately protected. Use only Onan-specified exhaust equipment with the generator set. Use an exhaust tube support at the perimeter of the vehicle to prevent dislocation of the system. Secure the support to a metal structure on the vehicle because plywood or fiberglass can deteriorate under stress and vibration.*

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

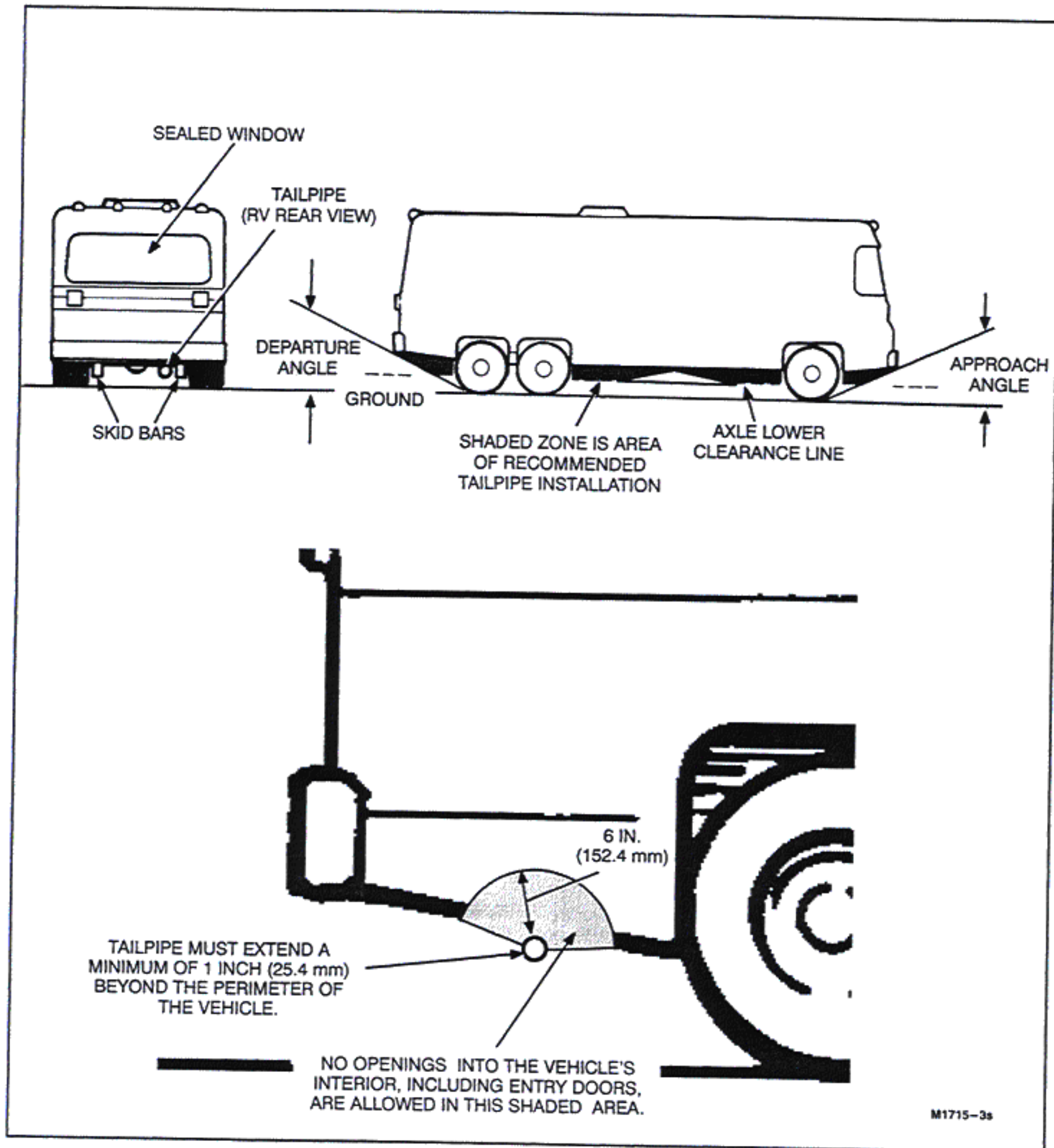


FIGURE 1. TAILPIPE LOCATION



## INSTALLATION

1. Hold the exhaust tube in position to see if the exhaust tube is long enough to extend a minimum of 1 inch (25 mm) beyond the vehicle skirt. If the exhaust tube length is satisfactory, proceed to step two.

If the exhaust tube does not extend at least 1 inch (25 mm) beyond the vehicle skirt, do not install this kit. A longer exhaust tube is required.

If the exhaust tube is too long, it can be cut. The new length must remain a minimum of 1 inch (25 mm) beyond the vehicle skirt.

2. Assemble the backplates to the mounting screws with the flanges facing the screw heads (refer to Figure 2). Insert the 5/16-18 x 3/4 screw and backplate through the center hole in the rubber insulator.
3. Insert the 5/16-18 x 1-1/2 screw and backplate assemblies through the ends of the rubber insulator in the opposite direction as the center mounting screw.
4. Rotate the three metal backplates so the flanges are aligned with the rubber insulator. The flanges on the backplates will protect the rubber insulator when it is secured.
5. Mount the rubber insulator assembly to the base of the genset securely (Figure 2). Do not overtighten the mounting bolt or the rubber insulator could be damaged.

6. Assemble the metal exhaust clamps to the 5/16-18 x 1-1/2 inch screws and place 5/16-inch nuts on the ends of the screws to secure the clamps in place. Do not tighten mounting nuts at this time.
7. Slide the exhaust tube through the hanger clamps. Assemble the exhaust tube to the genset by sliding it over the muffler outlet tube. Push the exhaust pipe up until it reaches the weld on the muffler outlet tube (as far up as it will go). Make certain that exhaust gases cannot escape through the slots in the exhaust pipe. Secure the exhaust pipe with the U-bolt clamp.
8. Secure the exhaust tube at the hanger by tightening the clamp mounting hardware until the metal clamps touch on both sides of the exhaust tube.
9. Inspect the vehicle floor and make sure that there are no holes or openings into the living quarters. Seal all holes or openings with a silicone/rubber based sealant to prevent exhaust gas from entering the vehicle coach.

**⚠WARNING** *Exhaust gas is poisonous and can cause severe personal injury or death. Check the installation to make sure there are no leaks in the exhaust system. Make sure the compartment floor is vapor tight, seal all holes or openings with a silicone/rubber based sealant to prevent exhaust gas from entering the vehicle coach.*

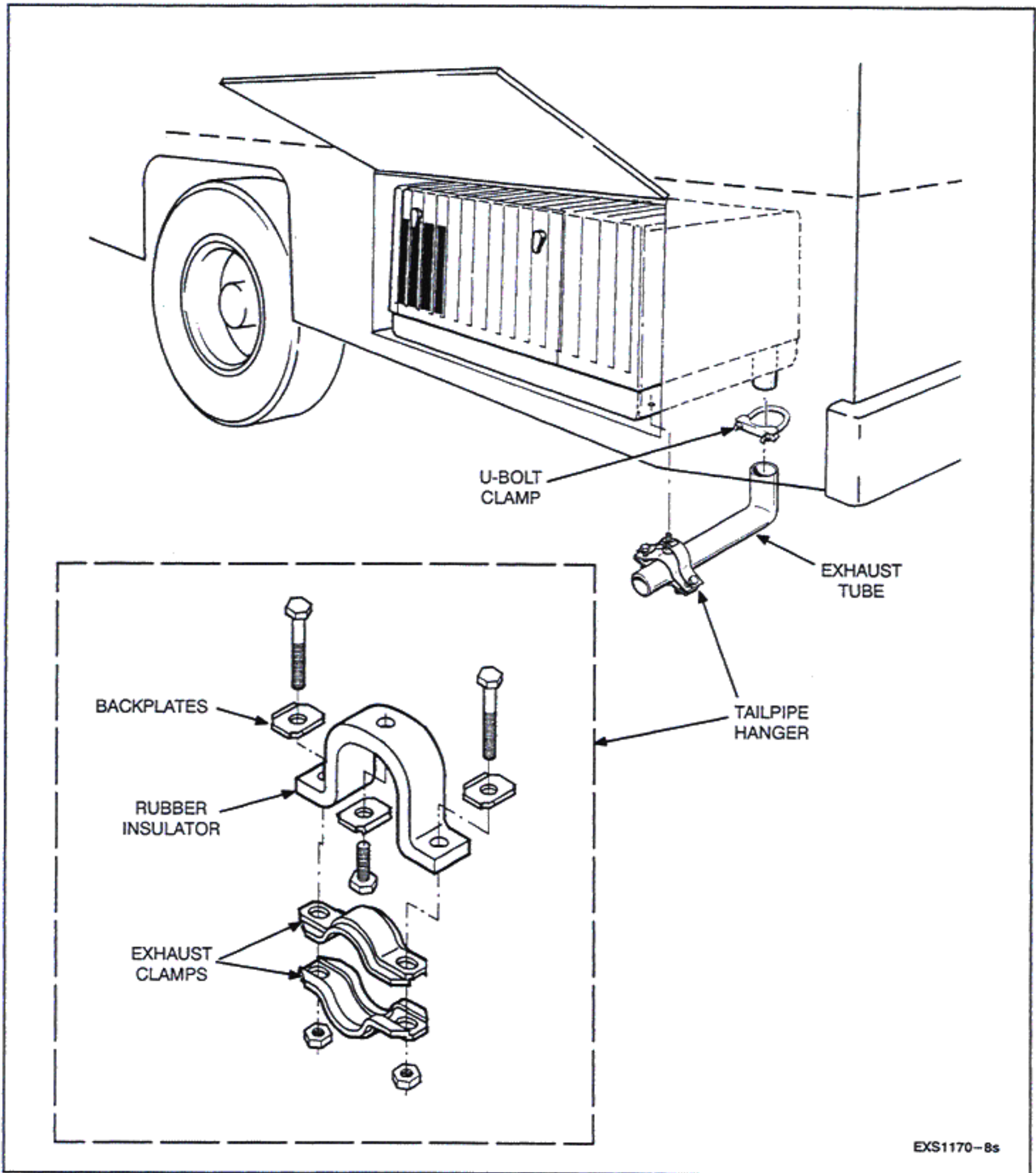


FIGURE 2. EXHAUST TUBE INSTALLATION