

## INSTALLATION INSTRUCTIONS

Original Issue Date: **3/91**

Model: **20-100 kW**

Market: **Industrial**

Subject: **Tail Pipe Kits PA-273919, PA-273919-SD, PA-273920, PA-273920-SD, PA-273921, PA-273921-SD, PA-276255, PA-276255-SD, PA-324564-SD, PA-324566-SD**

Tail pipe kits are designed for installation on industrial and critical silencers used with housed generator sets. Refer to Figure 1 and use the following instructions.

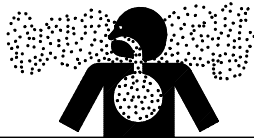


**Accidental starting.**  
**Can cause severe injury or death.**

Disconnect battery cables before working on generator set (negative lead first and reconnect it last).

**Accidental starting can cause severe injury or death.** Turn generator set master switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on any equipment connected to generator set. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.

### ⚠ WARNING

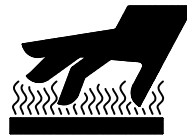


**Carbon monoxide.**  
**Can cause severe nausea, fainting, or death.**

The exhaust system must be leakproof and routinely inspected.

**Carbon monoxide can cause severe nausea, fainting, or death.** Never operate the generator set inside a building unless the exhaust gas is piped safely outside. Never operate in any area where exhaust gas could accumulate and seep back inside an occupied building. Avoid breathing exhaust fumes when working on or near the generator set. Carbon monoxide is particularly dangerous because it is an odorless, colorless, tasteless, nonirritating gas. Be aware that it can cause death if inhaled for even a short time.

### ⚠ WARNING



**Hot engine and exhaust system.**  
**Can cause severe injury or death.**

Do not work on generator set until it is allowed to cool.

**Hot parts can cause severe injury or death.** Do not touch hot engine parts. An engine gets hot while running and exhaust system components get extremely hot.

# Installation

1. Move the generator set master switch to the OFF position. Disconnect generator set engine starting battery, negative (–) lead first.

2. **Kits PA-273919, PA-273919-SD, PA-273921, PA-273921-SD, PA-276255, PA-276255-SD, PA-324564-SD**

Slide exhaust tube into slotted end of silencer exhaust outlet. Open end of exhaust tube must point directly upward. Exhaust tube must be inserted into exhaust outlet a minimum of 2 in. (51 mm).

3. Position exhaust pipe clamp (U-bolt) 1/4 in. (6 mm) from end of silencer outlet with threaded ends pointing downward. Tighten nuts gradually on each end while tightening.

**Kits PA-273920, PA-273920-SD, PA-324566, PA-324566-SD**

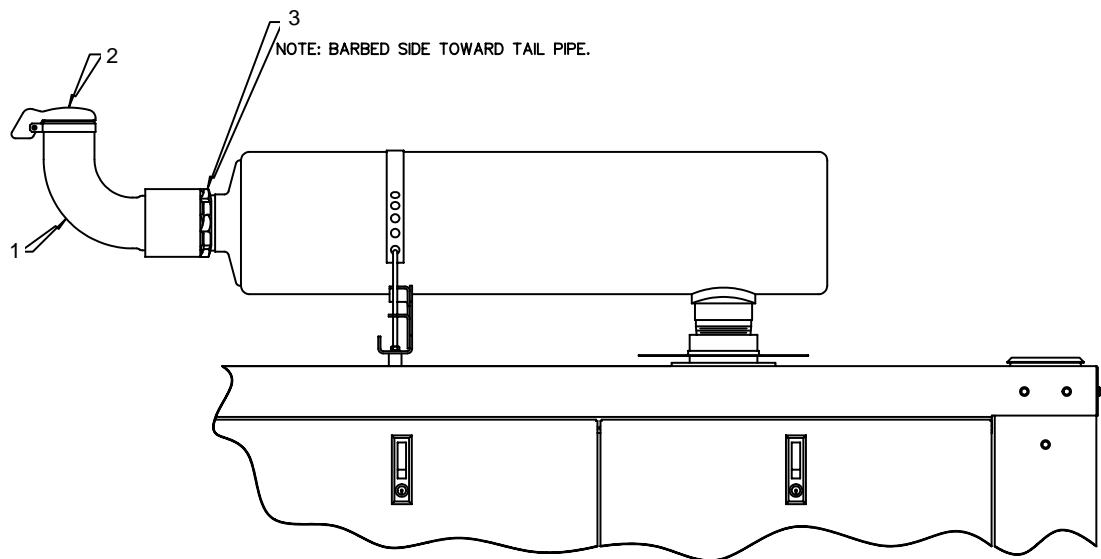
Install lock nut onto exhaust silencer as far as possible. Barbed side of lock nut must be toward exhaust tube. Install exhaust tube adapter onto

silencer using a pipe wrench. When final tightened, open end of exhaust tube adapter must point directly upward. While tightening exhaust tube adapter, make sure lock nut does not interfere.

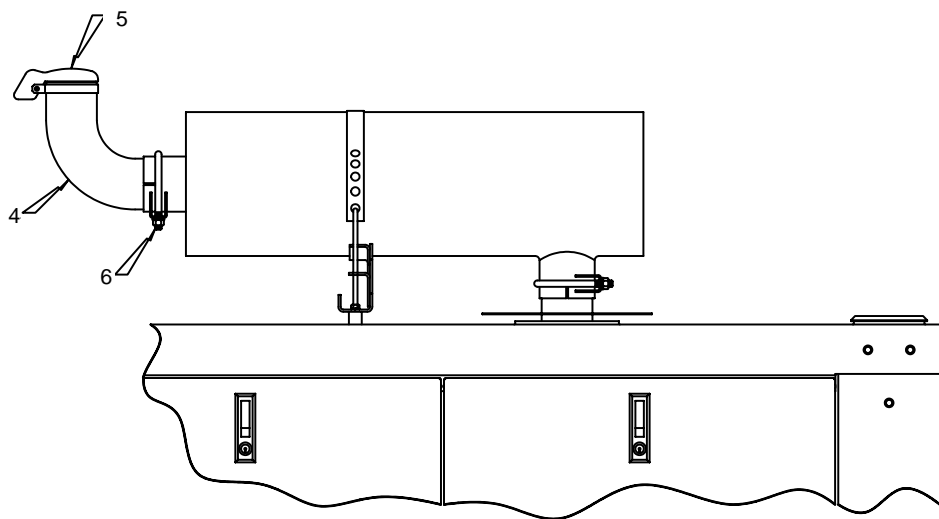
## NOTE

Turn exhaust tube adapter slightly counterclockwise to position exhaust elbow directly upward, if necessary. Tighten lock nut against exhaust tube.

4. Position rain cap on nonslotted end of exhaust tube and gently tap rain cap with a rubber mallet to install.
5. Reconnect generator set starting battery, negative (–) lead last. Move generator set controller master switch to the RUN position to start the generator set.
6. Inspect exhaust system for leaks. Verify that rain cap opens freely. Stop generator set.



Kits: PA-324566, PA-324566-SD, PA-273920, PA-273920-SD



Kits: PA-276255, PA-276255-SD, PA-273919, PA-273919-SD,  
PA-273921, PA-273921-SD, PA-324564, PA-324564-SD

BV-273000-F

1. Tail pipe (273925, 324565)
2. Rain cap (253990, 253191)
3. Lock nut (X-6038-2, X-6038-3)

4. Tail pipe (276253, 273922, 324563, 273924)
5. Rain cap (276254, 253191, 324562, 253990)
6. Clamp (X-722-2, X-722-5, 286283, 289372)

**Figure 1. Tail Pipe Assembly**

Parts List			
KITS PA-273919, PA-273919-SD PA-273921, PA-273921-SD			
Qty.	Description	PA-273919 PA-273919-SD	PA-273921 PA-273921-SD
1	Cap, rain	253191	253990
1	Tube, exhaust	273922	273924
1	Clamp, exhaust pipe	286283	289372

Parts List			
KITS PA-273920, PA-273920-SD PA-324566, PA-324566-SD			
Qty.	Description	PA-273920 PA-273920-SD	PA-324566 PA-324566-SD
1	Nut, lock	X-6038-2	X-6038-3
1	Cap, rain	253990	253191
1	Adapter, exhaust	273925	324565

Parts List			
KITS PA-276255, PA-276255-SD, PA-324564, PA-324564-SD			
Qty.	Description	PA-276255 PA-276255-SD	PA-324564 PA-324564-SD
1	Clamp, U	X-722-5	X-722-2
1	Tube, exhaust	276253	324562
1	Cap, rain	276254	324563