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## INSTALLATION INSTRUCTIONS

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Original Issue Date: **1/91**

Model: **230-400 kW**

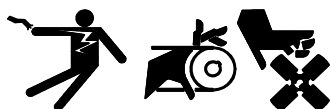
Market: **Industrial**

Subject: **Flexible Fuel Line Kits PA-272708, PA-272708-SD, PA-354618, PA-354618-SD**

The flexible fuel line kit provides a flexible connection between the engine fuel fittings and the fuel tank plumbing. Observe the following safety precautions during kit installation. For additional information on fuel system installation, consult the Industrial Generator Installation Manual.

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### ⚠ WARNING



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

Disconnect battery cables before working on generator set. (Remove negative (-) lead first when disconnecting battery. Reconnect negative (-) lead last when reconnecting battery.)

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**Disabling generator set. Accidental starting can cause severe injury or death.** Before working on the generator set or connected equipment, disable the generator set as follows:  
1) Turn the generator set master switch to OFF position.  
2) Disconnect power to battery charger. 3) Remove battery cables (remove negative (-) lead first). Reconnect negative (-) lead last when reconnecting battery. Follow these precautions to prevent starting of generator set by an automatic transfer switch or remote start/stop switch.

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### ⚠ WARNING



**Explosive fuel vapors.**  
**Can cause severe injury or death.**

Use extreme care when handling, storing, and using fuels.

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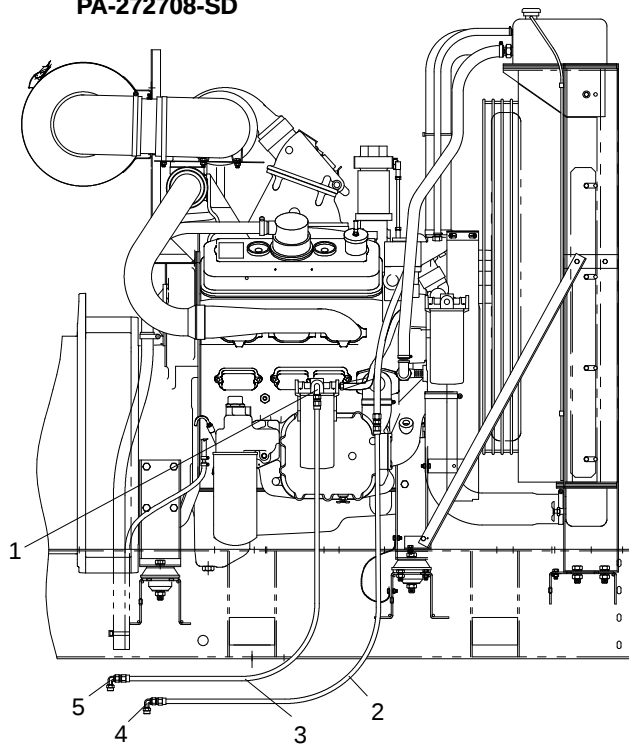
**Fuel system. Explosive fuel vapors can cause severe injury or death.** All fuels are highly explosive in a vapor state. Use extreme care when handling and storing fuels. Store fuel in a well-ventilated area away from spark-producing equipment and out of the reach of children. Never add fuel to the tank while the engine is running because spilled fuel may ignite on contact with hot parts or from spark. Do not smoke or permit flame or spark to occur near sources of spilled fuel or fuel vapors. Keep fuel lines and connections tight and in good condition. Do not replace flexible fuel lines with rigid lines. Use flexible sections to avoid breakage caused by vibration. Do not operate generator set in the presence of fuel leaks, fuel accumulation, or sparks. Repair systems before resuming generator set operation.

**Draining fuel system. Explosive fuel vapors can cause severe injury or death.** Spilled fuel can cause an explosion. Use a container to catch fuel when draining fuel system. Wipe up all spilled fuel after draining system.

## Installation

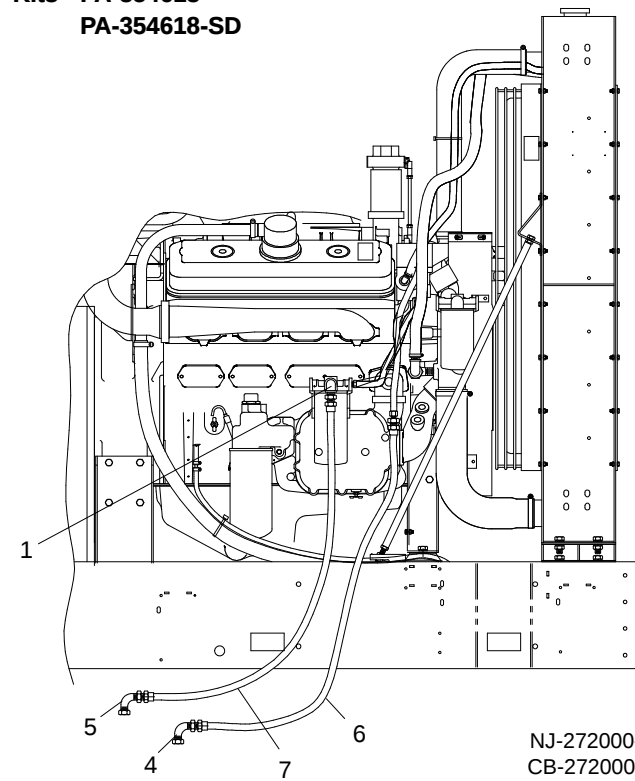
1. Place the generator set master switch in the OFF position.
2. Disconnect power to battery charger, if equipped.
3. Disconnect the generator set engine starting battery(ies), negative (-) lead first.
4. Refer to Figure 1 for installation of the flexible fuel line kit. Apply pipe sealant to all threaded fittings. Refer to the Parts List for a description of kit components.
5. Bleed air from the fuel system according to the engine manufacturer's instructions. Trapped air in the fuel system causes difficult starting and/or erratic engine operation.
6. Check that the generator master switch is in the OFF position.
7. Reconnect the generator set engine starting battery, negative (-) lead last.
8. Reconnect power to battery charger, if equipped.

**Kits PA-272708  
PA-272708-SD**



1. Elbow (X-447-14)
2. Flexible fuel line (274734)
3. Flexible fuel line (274502)
4. Elbow (X-447-9)

**Kits PA-354618  
PA-354618-SD**



5. Elbow (X-447-8)
6. Flexible fuel line (274735)
7. Flexible fuel line (274632)

NJ-272000-  
CB-272000-B

**Figure 1. Fuel Line Installation**

**Flexible Fuel Line Kit**

| Parts List                                             |                                   |              |                           |                           |
|--------------------------------------------------------|-----------------------------------|--------------|---------------------------|---------------------------|
| Kits: PA-272708, PA-272708-SD, PA-354618, PA-354618-SD |                                   |              | Unique Parts              |                           |
| Qty.                                                   | Description                       | Common Parts | PA-272708<br>PA-272708-SD | PA-354618<br>PA-354618-SD |
| 1                                                      | Elbow, 7/8-14 x 1/2               | X-447-8      |                           |                           |
| 1                                                      | Elbow, 5/8-18 x 3/8               | X-447-9      |                           |                           |
| 1                                                      | Elbow, 7/8-14 x 3/8               | X-447-14     |                           |                           |
| 1                                                      | Line, flexible fuel 35 in. 7/8-14 |              | 274502                    |                           |
| 1                                                      | Line, flexible fuel 45 in. 7/8-14 |              |                           | 274632                    |
| 1                                                      | Line, flexible fuel 35 in. 5/8-18 |              | 274734                    |                           |
| 1                                                      | Line, flexible fuel 45 in. 5/8-18 |              |                           | 274735                    |