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## INSTALLATION INSTRUCTIONS

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Original Issue Date: 1/91

Model: 200 kW

Market: Industrial

Subject: Flexible Fuel Line Kits PA-272744, PA-272744-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 when installing the kit.



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

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

**Disabling generator set. 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 the generator set or connected equipment. The generator set can be started by an automatic transfer switch or remote start/stop switch unless these precautions are followed.



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

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

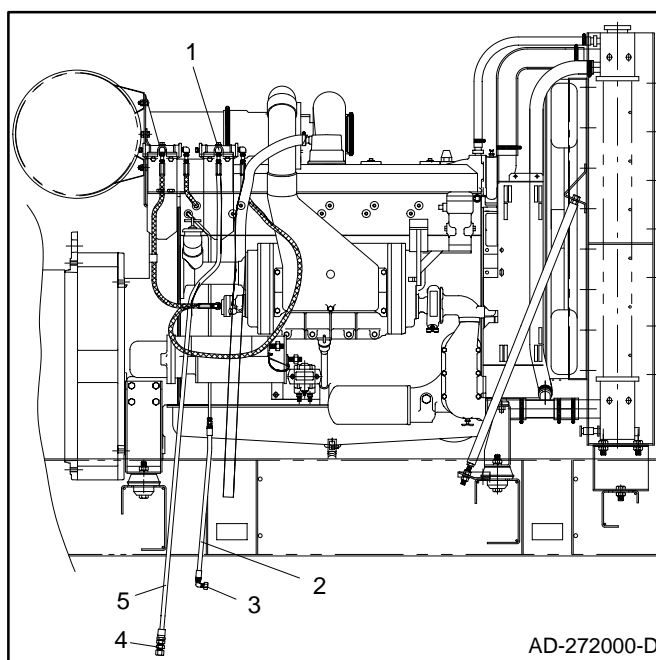
**Fuel system. Explosive fuel vapors can cause severe injury or death.** All fuels are highly explosive in a vapor state. Use extreme care when handling and storing fuels. Store fuel in a well-ventilated area away from spark-producing equipment and out of the reach of children. Never add fuel to the tank while the engine is running since spilled fuel may ignite on contact with hot parts or from ignition 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.

**Fuel tanks. Explosive fuel vapors can cause severe injury or death.** Gasoline and other volatile fuels stored in day tanks or subbase fuel tanks can cause an explosion. Store only diesel fuel in tanks.

**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 generator set engine starting battery(ies), negative (–) lead first.
4. Apply pipe sealant to threads of fuel return fitting and connect 23.0 in. (584 mm) flexible fuel line (274733). See Figure 1.
5. Apply pipe sealant to threads of elbow (X-447-15) and install in end of flexible fuel line installed in step 4.
6. Apply pipe sealant to threads of elbow (X-447-14) and install in fuel inlet. See Figure 1.
7. Apply pipe sealant to the exposed threads of elbow installed in step 6 and connect 49.0 in. (1245 mm) flexible fuel line (274633) to elbow. See Figure 1.
8. Apply pipe sealant to threads of half union connector (X-296-8) and install in end of flexible fuel line. See Figure 1.
9. Connect return and supply lines to fuel tank plumbing.
10. Verify that all connections are tight.
11. Bleed air from the fuel system according to the procedure in the operation manual.
12. Check that the generator set master switch is in the OFF position.
13. Reconnect engine starting battery(ies), negative (–) lead last.
14. Reconnect power to battery charger, if equipped.
15. Start generator set and verify that there are no fuel leaks.
16. Stop generator set.



1. Elbow (X-447-14)
2. Flexible fuel line 23.0 in. (274733)
3. Elbow (X-447-15)
4. Half union connector (X-296-8)
5. Flexible fuel line 49.0 in. (274633)

**Figure 1. Flexible Fuel Line Connections**

## Flexible Fuel Line Kit

Parts List		
Kits: PA-272744, PA-272744-SD		
Qty.	Description	Part Number
1	Connector, half union	X-296-8
1	Elbow, 7/8-14	X-447-14
1	Elbow, 1/2-20	X-447-15
1	Line, flexible fuel 49.0 in.	274633
1	Line, flexible fuel 23.0 in.	274733