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## INSTALLATION INSTRUCTIONS

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Original Issue Date: 5/92

Model: 20-100ROZJ  
20-100REOZJ

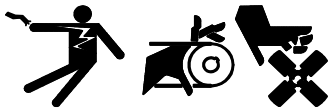
Market: Industrial

Subject: Flexible Fuel Line Kits PA-273618, PA-352371, PA-352489

The flexible fuel line kit provides a flexible connection between the engine fuel fittings and the fuel tank plumbing. After the flexible fuel lines are installed, verify that all connections are tight, and then bleed air from the fuel system according to the engine manufacturer's instructions. If air is trapped in the fuel system, hard starting and/or erratic operation will occur. Observe the following safety precautions while installing the kit.

Model	Kit
20-60ROZJ	PA-273618
20-100REOZJ	PA-352371
80/100ROZJ	PA-352489

### WARNING



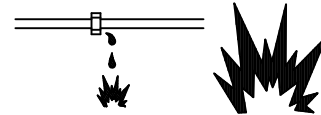
**Accidental starting.**  
**Can cause severe injury or death.**

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

**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.

### WARNING



**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 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.

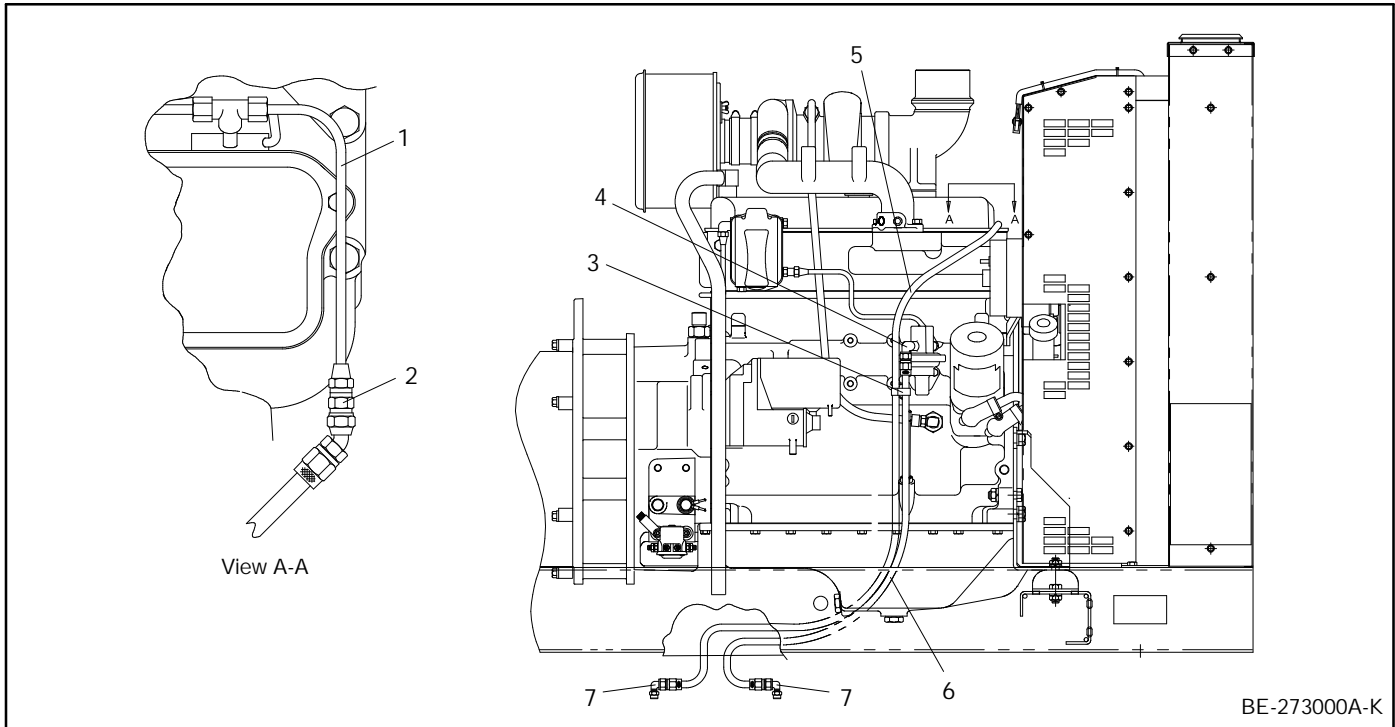
**Fuel tanks. Explosive fuel vapors can cause severe injury or death.** Gasoline and other volatile fuels stored in day tanks or subbase fuel tanks can cause an explosion. Store only diesel fuel in tanks.

**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 the power to the battery charger, if equipped.
3. Disconnect the generator set engine starting battery(ies), negative (-) lead first.
4. Remove and discard the engine-supplied fuel lines.

5. Refer to the following figures for flexible fuel line connections. Apply pipe sealant to all the nonflared threaded connections. Refer to the Parts List for a description of components.
6. Check that the generator master switch is in the OFF position.
7. Reconnect the generator set engine starting battery(ies), negative (-) lead last.
8. Reconnect the power to the battery charger, if equipped.



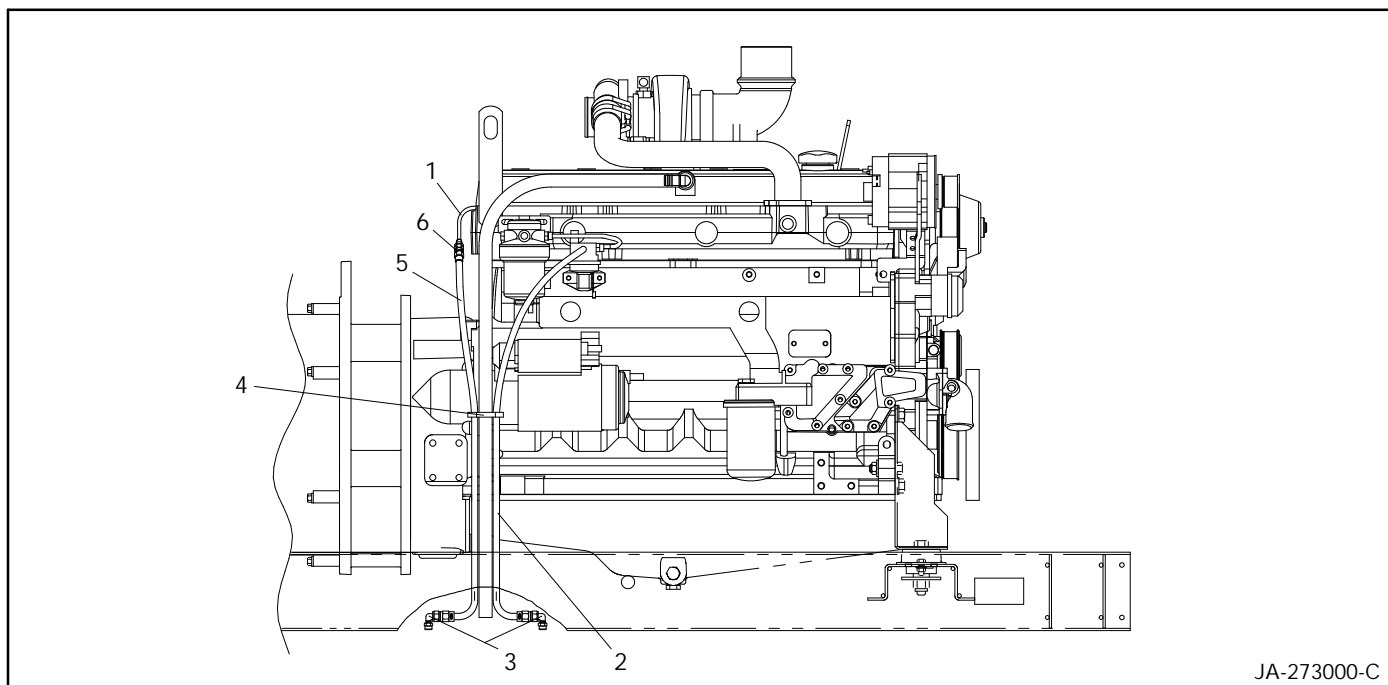
1. Fuel return line (273616)
2. Union (X-695-2)
3. Cable tie (X-468-1)
4. Elbow (X-447-10)

5. Flexible fuel line, 43.0 in. (1092 mm) (273615)
6. Flexible fuel line, 29.0 in. (737 mm)
7. Elbow (X-447-7)

**Figure 1. 20-60ROZJ Flexible Fuel Line Connections (PA-273618)**

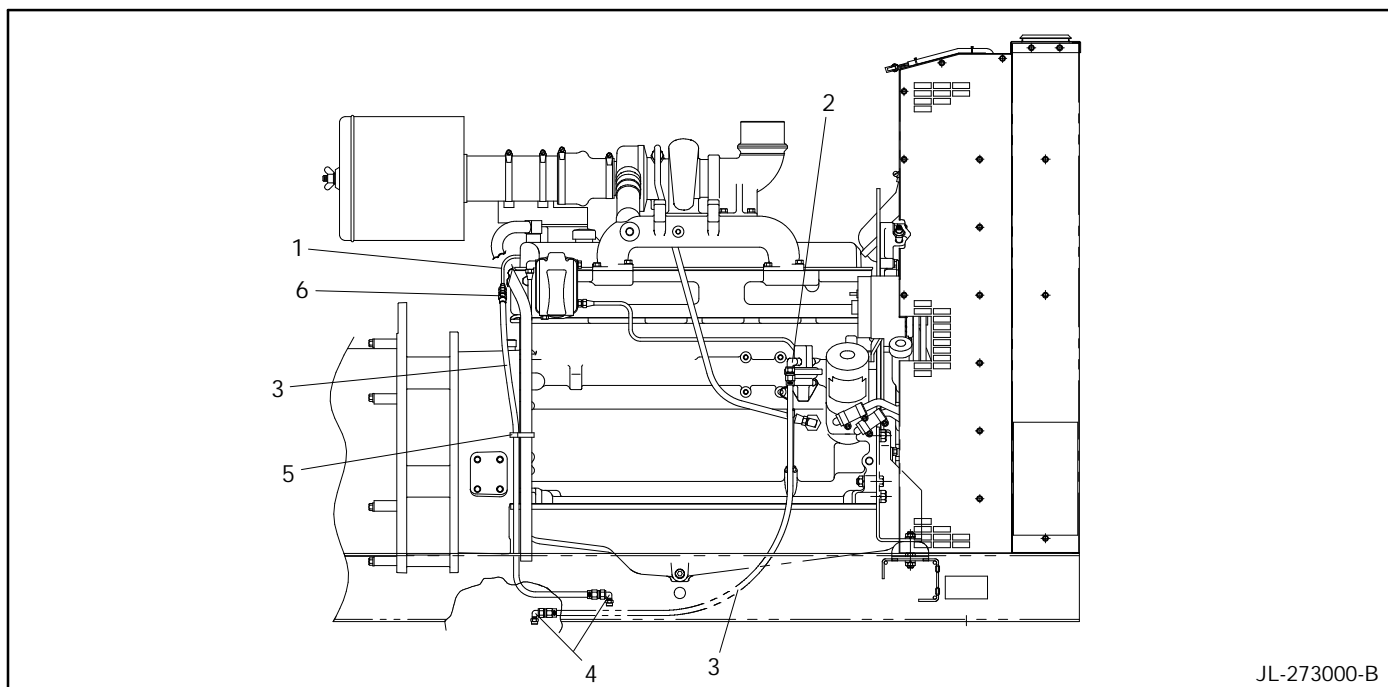
## Flexible Fuel Line Kits

Parts List					
Kits: PA-273618, PA-352371, PA-352489			Unique Parts		
Qty.	Description	Common Parts	PA-273618	PA-352371	PA-352489
2	Cap, pipe		X-268-7	X-268-3	X-268-3
1	Clamp, hose			X-426-18	
1	Elbow, 7/16-20 x 1/8 NPT		X-447-10		X-447-10
2	Elbow, 7/16-20 x 1/4 NPT	X-447-7			
1	Tie, cable	X-468-1			
1	Union, straight 7/16-20	X-695-2			
1	Line, flexible fuel supply		273614	344210	273629
1	Line, flexible fuel return		273615	273629	273629
1	Line, fuel return		273616	273631	273631



- |   |   |
|---|---|
| 1. Fuel return line (273631)  | 4. Cable tie (X-468-1)                            |
| 2. Flexible fuel line, 37.0 in. (940 mm) (344210),<br>hose clamp (X-426-18) | 5. Flexible fuel line, 37.0 in. (940 mm) (273629) |
| 3. Elbow (X-447-7)  | 6. Union (X-695-2)                                |

**Figure 2. 20-100REOZJ Flexible Fuel Line Connections (PA-352371)**



- |   |                        |
|---|------------------------|
| 1. Fuel return line (273631)                      | 4. Elbow (X-447-7)     |
| 2. Elbow (X-447-10)                               | 5. Cable tie (X-468-1) |
| 3. Flexible fuel line, 37.0 in. (940 mm) (273629) | 6. Union (X-695-2)     |

**Figure 3. 80/100ROZJ Flexible Fuel Line Connections (PA-352489)**