
INSTALLATION INSTRUCTIONS

Original Issue Date: 7/04

Model: 10-24EOZD and 9-20EFOZD

Market: Marine

Subject: Fuel Attachment Block Kit GM33129-KP1

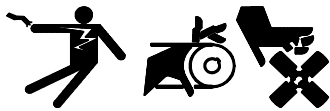
Introduction

This kit is designed to provide a convenient location for attaching the fuel supply and fuel return lines.

Safety Precautions

Observe the following safety precautions while installing the kit.

⚠ WARNING



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

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

Disabling the 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) Move the generator set master switch to the OFF position. (2) Disconnect the power to the battery charger. (3) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent starting of the generator set by an automatic transfer switch, remote start/stop switch, or engine start command from a remote computer.

Installation Procedure

1. Remove the generator set from service.

- 1.1 Place the generator set master switch in the OFF position.
- 1.2 Disconnect the generator set engine starting battery(ies), negative (-) lead first.

2. Install the fuel attachment block.

Note: Apply thread sealant to the male threaded fuel connections.

- 2.1 Close the fuel valve at the fuel tank.
- 2.2 Disconnect the customer-supplied fuel lines at the generator set.
- 2.3 Place a bolt (X-125-29) and washer (X-25-85) into each mounting hole on the top of the fuel block (229835). See Figure 1.
- 2.4 Slip a spacer (X-400-100) over each screw end below the fuel block. See Figure 1.
- 2.5 Attach the fuel block (229835) onto the fuel pump mounting bracket as shown in Figure 1. Weldnuts are provided on the fuel pump mounting bracket for attaching the block. Align the fuel block so the 1/4 in. NPT holes on the side of the block face away from the engine. Tighten both screws.

Note: Fuel line lengths vary depending on the engine type. See Figure 1.
- 2.6 Hold the fuel return line (X-386-113) at the connector located at the engine's fuel return connection point. Make sure there is enough slack in the line to easily reach the fuel block return connector. Mark the line at the required length, cut the line. See Figure 1.
- 2.7 Slide one end of the return line (X-386-113) over the hose fitting located at the engine's fuel return connection point and secure using a hose clamp

(X-426-9) attached 1/4 in. (6.2 mm) from the hose end.

- 2.8 Screw the hose connector (X-380-4) into the fuel block. See Figure 1, item 7. Ensure the connection is tight.
- 2.9 Slide the other end of the fuel return line over the hose connector installed in step 2.8 and secure using a hose clamp (X-426-9) attached 1/4 in. (6.2 mm) from the hose end. See Figure 1.
- 2.10 Screw a 90° connector (X-391-25) into the fuel block. See Figure 1, item 1. Ensure the connection is tight.
- 2.11 Remove and discard the existing street elbow (X-555-1) mounted on the fuel pump. See Figure 1.
- 2.12 Screw the remaining 90° connector (X-391-25) onto the fuel pump fitting. Ensure the connection is tight.
- 2.13 Slide one end of the remaining fuel line (X-386-101) over the 90° connector. Fasten using a hose clamp (X-426-9) attached 1/4 in. (6.2 mm) from the hose end. See Figure 1.
- 2.14 Place the other end over the fuel pump's 90° connector. Secure using a hose clamp (X-426-9) attached 1/4 in. (6.2 mm) from the hose end. See Figure 1.
- 2.15 Retighten all fuel line hose clamps.
- 2.16 Attach the customer-supplied fuel return line from the fuel supply. Reroute the line to the fuel block return connector.
- 2.17 Attach the customer-supplied fuel supply line to the remaining connector on the fuel block.
- 2.18 Open the fuel flow valve at the fuel tank.

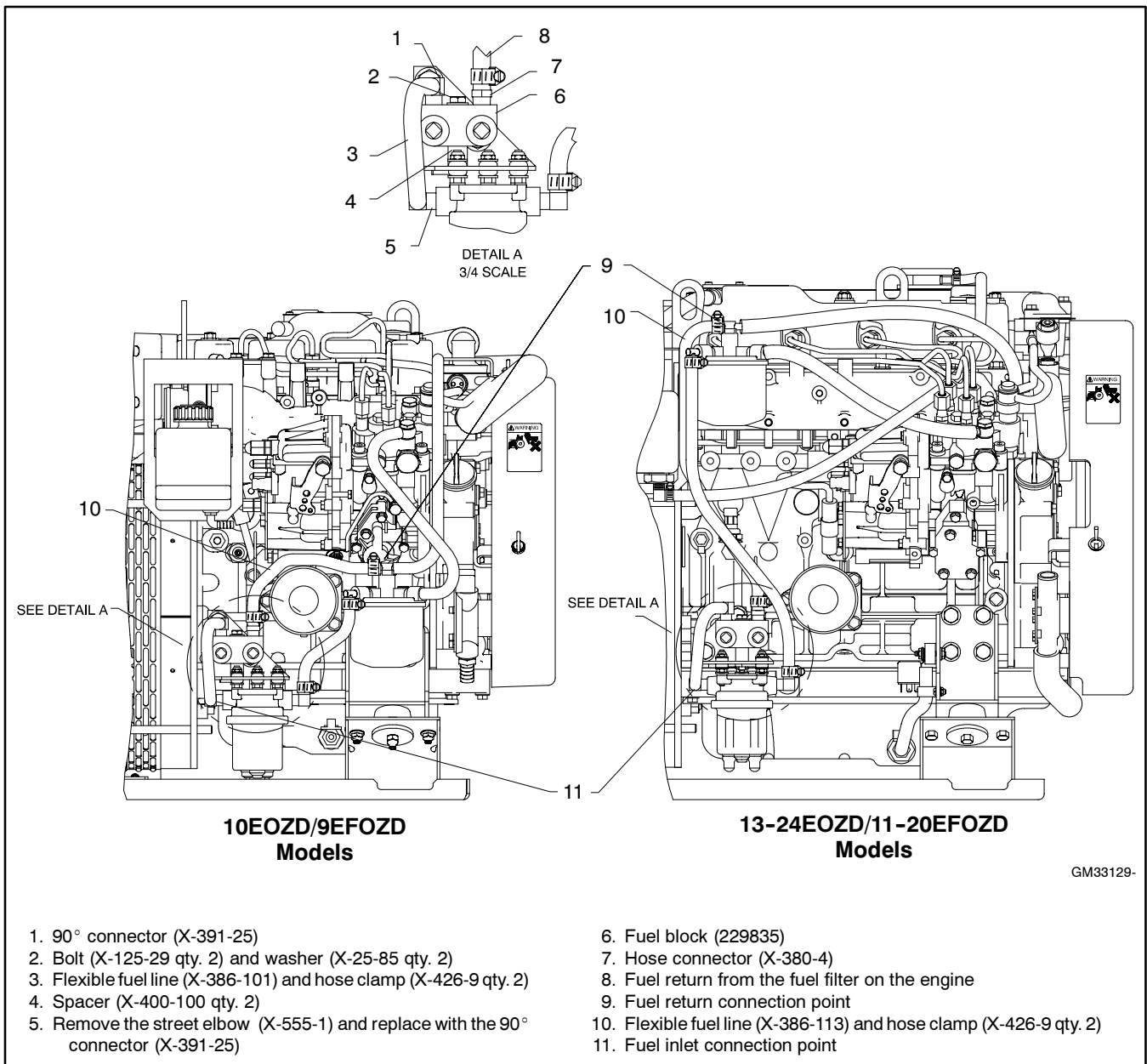
3. Restore the generator set to service.

- 3.1 Check that the generator set master switch is in the OFF position.
- 3.2 Reconnect the generator set engine starting battery, negative (-) lead last.
- 3.3 Use rags to wipe up any spilled fuel. Dispose of the rags in a proper container.
- 3.4 Operate the generator set for 20–30 seconds. If any fuel leaks are detected, immediately STOP the generator set and make any necessary repairs.

Note: Bleed the fuel system according to the generator set operation manual. If air is trapped in the fuel system, the engine will be difficult to start and/or engine operation will be erratic.

Fuel Attachment Block Kit

Kit: GM33129-KP1		
Qty.	Description	Part No.
1	Block, fuel	229835
4	Clamp, hose	X-426-9
2	Spacer, 0.344 x 0.625 x 0.65	X-400-100
2	Connector, hose elbow	X-391-25
1	Line, flexible fuel	X-386-101
1	Line, flexible fuel	X-386-113
1	Connector, hose	X-380-4
2	Screw, hex cap 5/16–18	X-125-29
2	Washer, plain	X-25-85



1. 90° connector (X-391-25)
2. Bolt (X-125-29 qty. 2) and washer (X-25-85 qty. 2)
3. Flexible fuel line (X-386-101) and hose clamp (X-426-9 qty. 2)
4. Spacer (X-400-100 qty. 2)
5. Remove the street elbow (X-555-1) and replace with the 90° connector (X-391-25)

6. Fuel block (229835)
7. Hose connector (X-380-4)
8. Fuel return from the fuel filter on the engine
9. Fuel return connection point
10. Flexible fuel line (X-386-113) and hose clamp (X-426-9 qty. 2)
11. Fuel inlet connection point

Figure 1 Fuel Attachment Block Installation

Notes