

INSTALLATION INSTRUCTIONS

Original Issue Date: 11/10

Model: **125ERES, 125/150ERESC, 125/150REZG, and 125/150REZGC/RZGC Generator Sets**

Market: **Industrial and Residential**

Subject: **Crankcase Ventilation (CCV) Heater Kit GM78171-KP1**

Introduction

The crankcase ventilation (CCV) heater kit provides a controlled heating source to the crankcase ventilation system preventing freezing water buildup during cold weather. The thermostat turns on at 4°C (40°F) and turns off at 16°C (60°F) reducing energy consumption. See Figure 1.

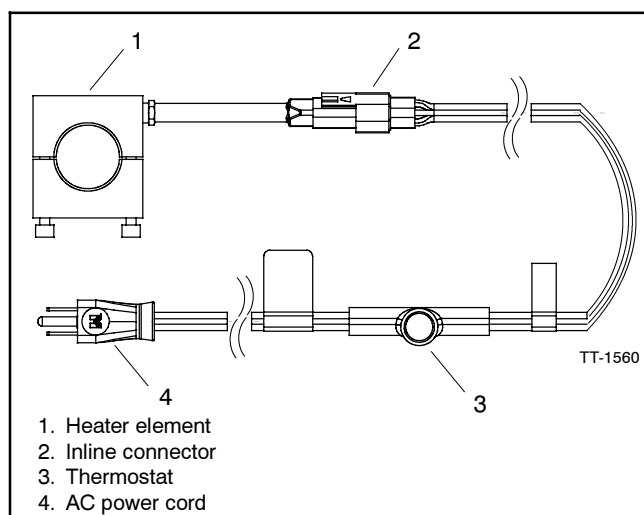


Figure 1 Crankcase Ventilation Heater Kit

Read the entire installation procedure and compare the kit parts with the parts list in this publication before beginning installation. Perform the steps in the order shown.

Always observe applicable local and national electrical codes.

Installation Requirements

The following items are necessary to install the kit.

- 3/16" hex wrench
- Nylon cable ties
- 120 VAC, 15 amp. outlet within the reach of the power cord. Actual usage is 0.3 amps.

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.

(Decision-Maker® 550 Controller)

Disabling the generator set. Accidental starting can cause severe injury or death. Before working on the generator set or equipment connected to the set, disable the generator set as follows: (1) Press the generator set off/reset button to shut down the generator set. (2) Disconnect the power to the battery charger, if equipped. (3) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent the starting of the generator set by the remote start/stop switch.

(Decision-Maker® 3000 and 6000 Controllers)

Installation Procedure

1. Remove the generator set from service.

- 1.1 Move the generator set master master to the OFF position (Decision-Maker® 550 Controller).

Press the generator set master control OFF/RESET button (Decision-Maker® 3000 and Controllers).

- 1.2 Disconnect the power to the battery charger, if equipped.
- 1.3 Disconnect the generator set engine starting battery(ies), negative (-) lead first.

2. Install the crankcase ventilation (CCV) heater kit.

- 2.1 Locate the crankcase ventilation canister. See Figure 2.

- 2.2 Loosen and remove the two socket head bolts from the CCV heater assembly.

- 2.3 Place the CCV heater assembly GM78169 around the base of the crankcase breather canister and install the socket head bolts but do not tighten.

Locate the heater element as close as possible to the canister base to ensure adequate heating. Rotate the heating element so that there is no interference with the engine components and final tighten the bolts.

- 2.4 Install the CCV heater insulation wrap GM78170 over the crankcase ventilation canister and the CCV heater assembly. See Figure 3.

- 2.5 Connect the power cord to the heater element at the inline connector if not already done.

- 2.6 Use cable ties (user supplied) as needed to secure the power cord and keep it away from moving parts and exhaust components.

3. Restore power to the generator set.

- 3.1 Reconnect the generator set engine starting battery, negative (-) lead last.

- 3.2 Reconnect power to the battery charger, if equipped.

- 3.3 Plug the CCV heater power cord into a 120 VAC outlet.

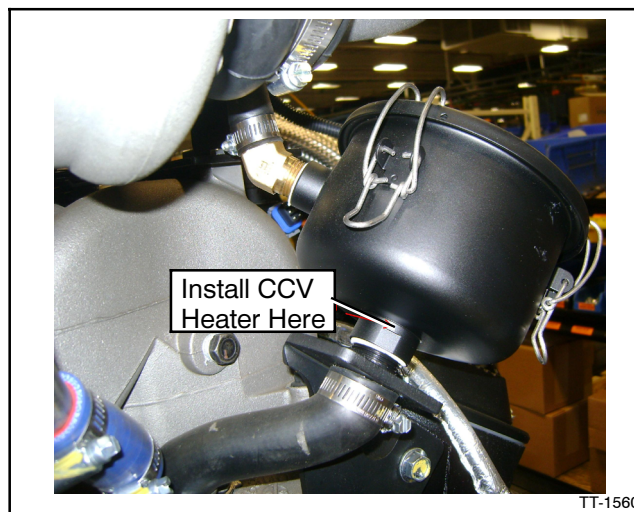


Figure 2 Crankcase Ventilation Canister



Figure 3 Crankcase Ventilation (CCV) Heater Insulation Wrap

Parts List

Crankcase Ventilation Heater Kit

Kit: GM78171-KP1		
Qty.	Description	Part Number
1	CCV Heater Assembly	GM78169
1	CCV Insulation Wrap	GM78170

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