

**INSTALLATION INSTRUCTIONS**

Original Issue Date: 12/11

Model: RXT

Market: Residential/Light Commercial ATS

Subject: RXT Status Indicator Kit GM84662-KP1-QS and GM84662-KP2-QS

**Introduction**

The status Indicator Kits provide LEDs to indicate transfer switch status, including the following:

- Source Available:
  - Utility power (normal)
  - Generator (emergency)
- Transfer Switch Position:
  - Utility (utility power supplying the load)
  - Generator (standby generator supplying the load)
- Six Load Status Indicators **(GM84662-KP2-QS only)**:
  - Four customer-supplied loads
  - Two HVAC loads

The status indicator kits are designed only for the Kohler Model RXT automatic transfer switch. They will not connect to or operate with any other automatic transfer switch (ATS). The Model RXT transfer switch must be connected to a Kohler generator set equipped with the RDC2 and DC2 controllers.

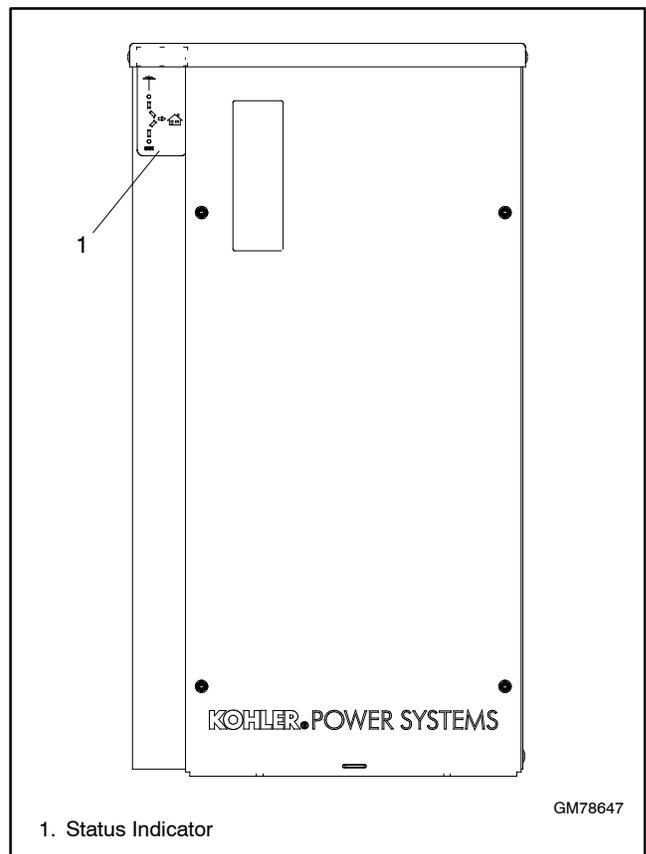
Kit **GM84662-KP2-QS** is designed for use with a **combined interface/load management board**. The load shed test button on GM84662-KP2-QS exercises the load shed relays in the sequence of assigned priority. See Figure 1 for kit compatibility.

GM84662-KP1-QS	GM84662-KP2-QS
RXT ATS Only RDC2/DC2 Controller	RXT ATS Only RDC2/DC2 Controller Combined Interface/Load Management Board

**Figure 1** Compatibility Chart

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

See Figure 2 for the installed kit illustration.



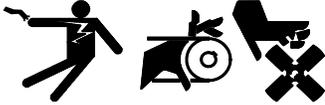
**Figure 2** Installed Status Indicator (typical)

## Safety Precautions

Observe the following safety precautions while installing the kit.

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**⚠ 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.

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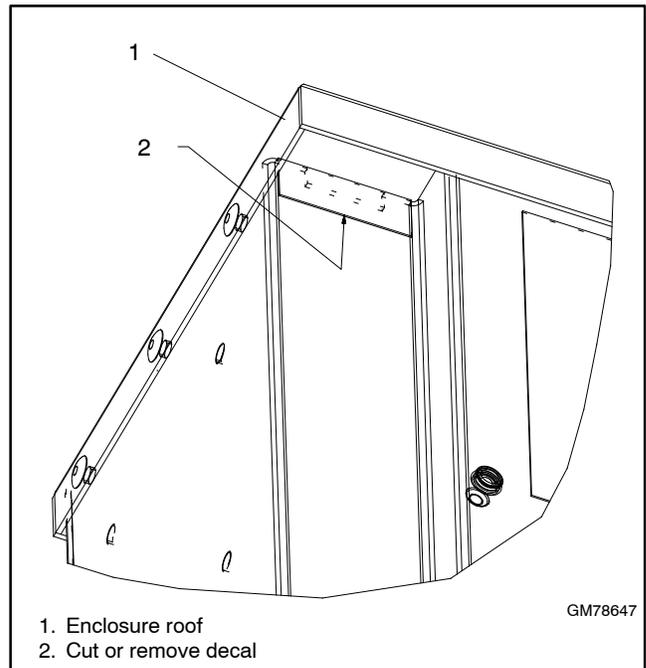
**Disabling the generator set. Accidental starting can cause severe injury or death.** Before working on the generator set or equipment connected to the set, disable the generator set as follows: (1) Press the generator set off/reset button to shut down the generator set. (2) Disconnect the power to 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.

<b>⚠ DANGER</b>

<b>Hazardous voltage.</b> <b>Will cause severe injury or death.</b>
Disconnect all power sources before opening the enclosure.

## Installation Procedure

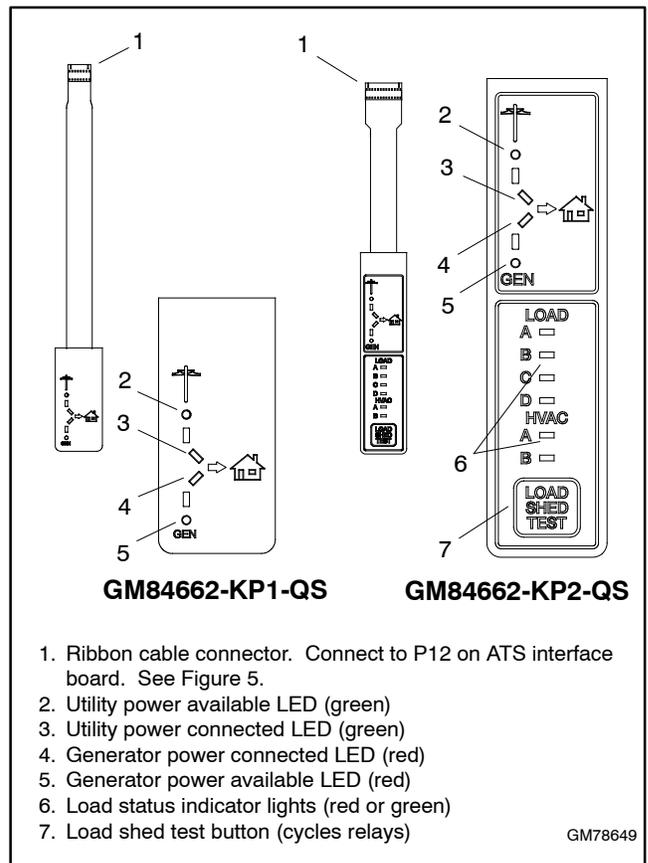
1. Press the OFF button on the generator set controller.
2. Disconnect power to the RDC2 or DC2 controller's built-in battery charger by disconnecting the utility power to the generator set.
3. Disconnect the generator set engine starting battery(ies), negative (-) lead first.
4. Disconnect utility power to the transfer switch (open the circuit breaker).
5. Remove the cover from the transfer switch enclosure.
6. Remove or cut the gray decal in the upper left corner of the enclosure to allow the status indicator's ribbon cable to pass through the opening. See Figure 3.



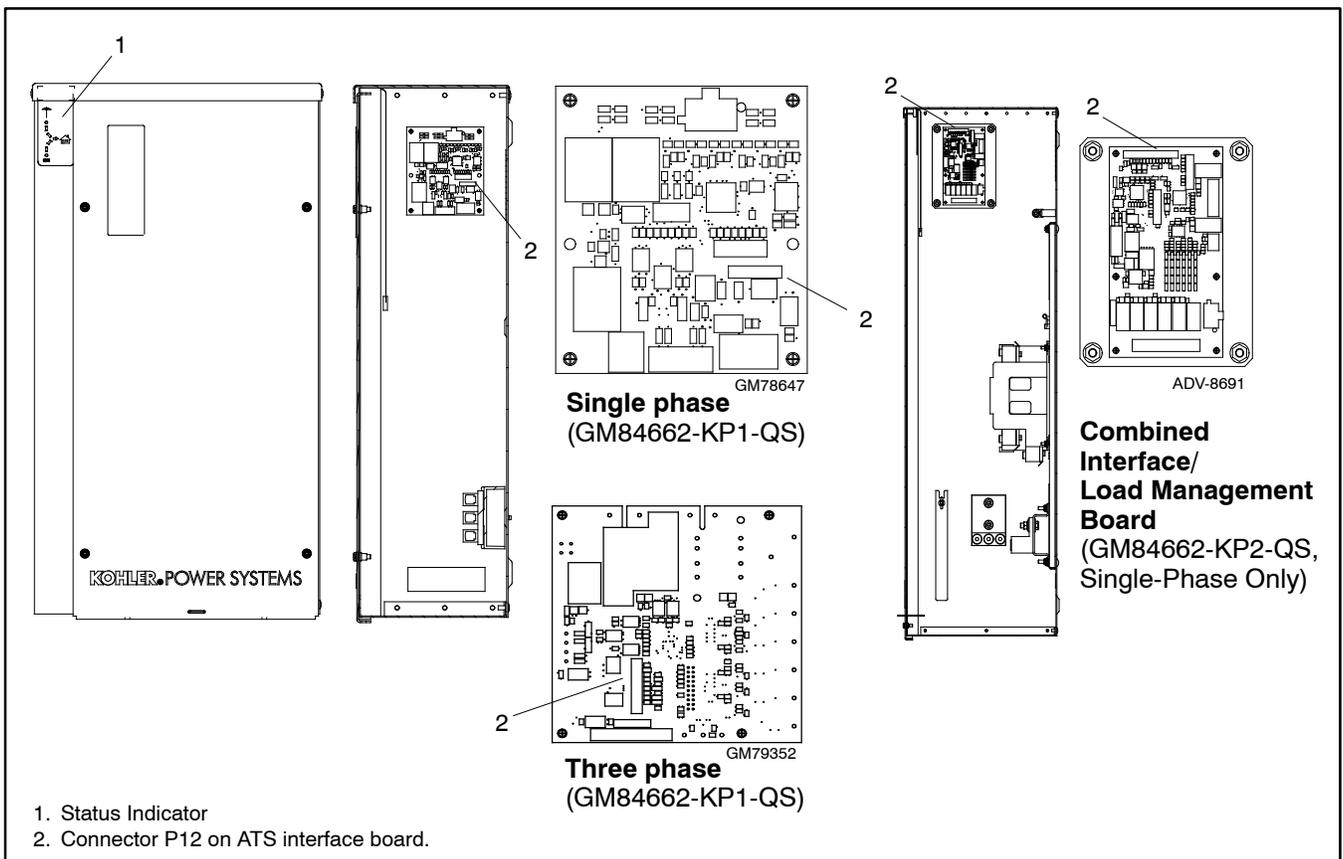
**Figure 3** Ribbon Cable Opening Detail

7. Clean with isopropyl alcohol and dry the enclosure surface in the area where the status indicator will be installed. See Figure 2 for the location.
8. Insert the status indicator's ribbon cable through the opening. Check that the indicator is facing the right direction. See Figure 4.
9. Remove the backing from the status indicator to expose the adhesive.

10. Align the top edge of the indicator with the underside of the enclosure roof, and press the indicator firmly into place.
11. Plug the indicator's ribbon cable into connector P12 on the transfer switch's controller interface board. See Figure 5. Make sure that the connector clicks into place.
12. Reinstall the transfer switch cover.
13. Reconnect utility power to the transfer switch.
14. Reconnect the generator set engine starting battery, negative (-) lead last.
15. Reconnect utility power to the generator set.
16. Press the AUTO button on the generator set controller to place the system in automatic mode. Check the controller time and date, and reset if necessary.
17. Reset the exercise time on the controller. See the generator set operation manual for instructions.



**Figure 4** Status Indicator GM78649



**Figure 5** Ribbon Cable Connection to ATS Interface Board

## Operation

The LEDs on the status indicator operate as shown in Figure 6.

**Note:** Utility LEDs indicate the source connected to the Normal side of the transfer switch. Generator LEDs indicate the source connected to the Emergency side.

On **GM84662-KP2-QS**, use the TEST button to exercise the load shed relays in sequence according to the assigned priorities. Operate the generator set in RUN mode, not AUTO, during this test. The generator set must be running, but the automatic transfer switch must NOT transfer to the generator set for this test.

**Note:** The load shed must be active to exercise the load shed relays with the TEST button. Load shed will be disabled when the transfer switch is set to RXT only mode. See the RXT operation and installation manual.

### Test Procedure

1. Press RUN on the RDC2 or DC2 generator set controller to start the generator set.
2. Press the TEST button on the indicator panel to exercise the first relay.
3. Press TEST again for the next relay, and repeat to cycle through all of the relays in order.

The test mode ends automatically after 15 minutes. To end the test manually, hold the TEST button for 5 seconds or press OFF or AUTO on the RDC2 or DC2 generator set controller.

**Note:** When **GM84662-KP2-QS** is used with a load control module (LCM), the load portion of the status indicator is disconnected and does not work. Instead, the load is displayed by the LCM status indicator.

LED	State/Color	Indicates
Utility Available	On	Utility power is available
	Off	Utility power is not available
Utility Connected	On	Utility power is connected (ATS in normal position)
	Off	Utility power is not connected
Generator Available	On	Generator set is running and producing power
	Off	Generator set power is not available
Generator Connected	On	Generator is connected to the load (ATS in Emergency position)
	Off	Generator not connected
Loads A through D <b>GM84662-KP2-QS only</b>	Red	Load disconnected (shed)
	Green	Load connected (added)
	Flashing red	Disconnected (test)
HVAC Loads A, B <b>GM84662-KP2-QS only</b>	Red	Load disconnected (shed)
	Green	Load connected (added)
	Flashing red	Disconnected (test)

Figure 6 LED Operation

## Parts List

### Status Indicator Kit, RXT ATS

Kit: GM84662-KP1-QS		
Qty.	Description	Part Number
1	Decal, Membrane Status Indicator	GM78649
1	Installation Instructions	TT-1585
Kit: GM84662-KP2-QS		
Qty.	Description	Part Number
1	Decal, Membrane Status Indicator	GM90763
1	Installation Instructions	TT-1585