

Load Shed Assembly

### Applicable Models

- RXT Automatic Transfer Switch (without load center)
- RDT Automatic Transfer Switch (without load center)
- RDT 200 amp service entrance rated transfer switch with 42-circuit load center
- A Kohler® single-phase generator set equipped with the RDC2 or DC2 controller is required. The load shed kit operates with the following generator set models: \*
  - 14RESA and 14RESAL
  - 20RESA and 20RESAL
  - 38RCL
  - 48RCL

### Standard Features

- Automatically manages up to six residential loads:
  - Four customer-provided power relays can be connected for management of non-essential secondary loads.
  - Two HVAC relays to control two independent air conditioner loads are included.
- Current transformer for load monitoring is provided.
- The load shed kit mounts inside the enclosure on Kohler® Model RXT and RDT automatic transfer switches.

### Load Management

- The load shed kit disconnects non-critical loads to prevent generator overload, in compliance with NEC 2008.
- The load shed kit monitors generator current and frequency to determine when to shed loads. This monitoring prevents frequency drops that can damage valuable electronics like computers and televisions.
- Load management with the load shed kit allows the use of a smaller generator set.

### Priority Setting

- Loads are added and shed according to their priority. Load 1 is the top priority, which is added first and shed last. Load 6 is the lowest priority.
- Less critical loads can be turned off automatically when essential appliances are running.
- Load priorities are hard-wired at installation.

\* Information available at time of publication.

## Operation

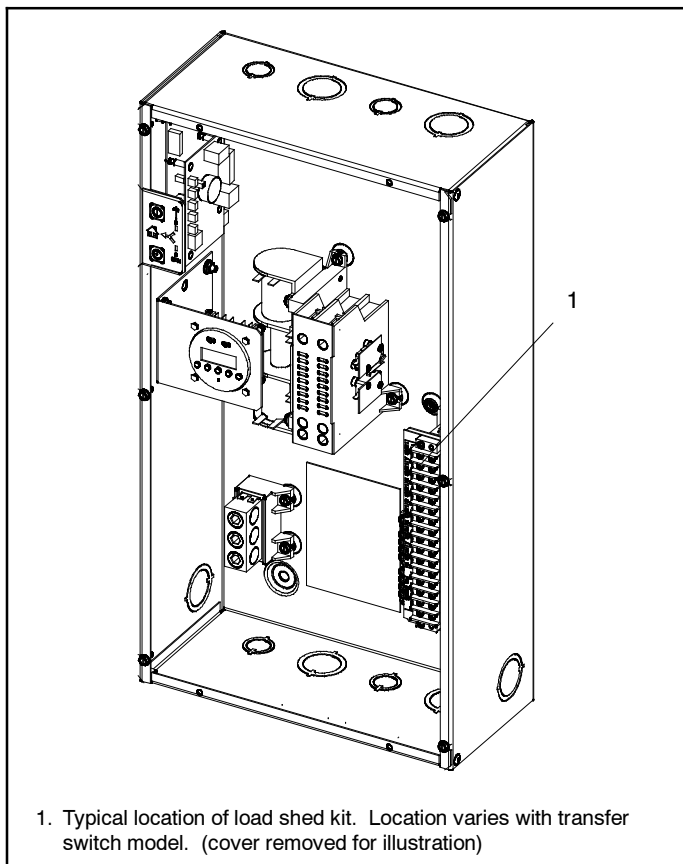
- Loads are automatically added or disconnected based on generator capacity.
- The Kohler-patented load control system uses dynamic logic to prevent shedding important loads unnecessarily when air conditioning, refrigerator, or water pump motors start.
- The load shed kit and generator communicate to provide smart power management. The time to shed loads decreases as each load is shed to quickly adapt to critical power requirements.
- Load shed power level and frequency setpoint adjustments are possible only by using Kohler® SiteTech™ software, available to Kohler-authorized distributors and dealers.

## Specifications

Connection	Rating	Connection
Pilot Relays* and HVAC Relays (qty. 2)	125VAC, 10 A (general purpose) 120VAC, 125VA (pilot duty)	Connect to #6 screw on terminal block
RBUS Communication and Power Connections to the RDC2/DC2 controller	0.5 A @ 12 VDC	Use Belden #9402 or equivalent 20 AWG shielded, twisted-pair communications cable †

\* Four (4) pilot relays are provided for customer-supplied load-switching contactors/relays.  
 † For long distances, use an equivalent shielded, twisted pair cable for RBUS connections and individual 12-20 AWG wires (qty. 2) for power connections. A communication harness for the Model RXT transfer switch is included with the load shed kit. See TT-1609, Load Shed Kit Installation Instructions, for details.

## Location Inside ATS Enclosure



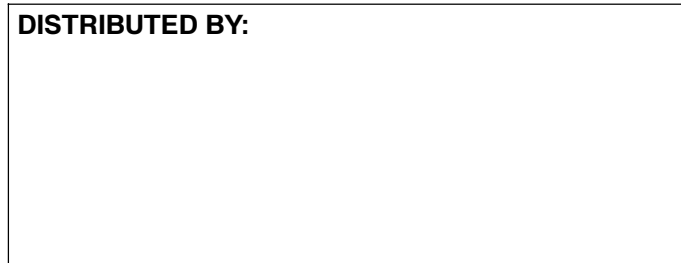
## Current Transformer

The load shed kit includes a current transformer (CT) for load monitoring. If the application requires cables that are too large for the inner diameter (I.D.) of the CT provided, order current transformer GM17250, or obtain a CT that meets the specifications shown below.

CT Specifications	GM83929 (provided)	GM17250 *
Primary Rating	400 Amps	400 Amps
Secondary Rating	3 VAC	3 VAC
Burden Resistor	16 Ohms	16 Ohms
Burden Resistor Location	Internal	Internal
Inner Diameter (I.D.)	28.7 mm (1.13 in.)	57.2 mm (2.25 in.)

\* Order GM17250 for applications that use larger cables.

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