

# KOHLER GENERATORS

## TT-543-B INSTRUCTIONS

### Circuit Breaker Kits R-Series Generator Sets

| Model                                       | Voltage            | Kit No.   |
|---------------------------------------------|--------------------|-----------|
| 10kW<br>(MWM-Murphy)                        | 120/240 V., 1Ø, 3W | PA-250580 |
|                                             | 120/240 V., 3Ø, 4W | PA-250581 |
|                                             | 138/240 V., 3Ø, 3W | PA-250581 |
|                                             | 120/208 V., 3Ø, 4W | PA-250580 |
|                                             | 277/480 V., 3Ø, 4W | PA-250582 |
|                                             | 600 V., 3Ø, 4W     | PA-250582 |
| 15kW<br>(MWM-Murphy)                        | 120/240 V., 1Ø, 3W | PA-250579 |
|                                             | 120/240 V., 3Ø, 4W | PA-250578 |
|                                             | 138/240 V., 3Ø, 3W | PA-250578 |
|                                             | 120/208 V., 3Ø, 4W | PA-250578 |
|                                             | 277/480 V., 3Ø, 4W | PA-250581 |
|                                             | 600 V., 3Ø, 4W     | PA-250577 |
| 15kW<br>(Perkins 4-108)                     | 120/240 V., 1Ø, 3W | PA-259910 |
|                                             | 120/240 V., 3Ø, 4W | PA-269255 |
|                                             | 138/240 V., 3Ø, 3W | PA-269255 |
|                                             | 120/208 V., 3Ø, 4W | PA-269255 |
|                                             | 277/480 V., 3Ø, 4W | PA-269256 |
|                                             | 600 V., 3Ø, 4W     | PA-269257 |
| 15kW<br>(Wisconsin)                         | 120/240 V., 1Ø, 3W | PA-250579 |
|                                             | 120/240 V., 3Ø, 4W | PA-250578 |
|                                             | 139/240 V., 3Ø, 3W | PA-250578 |
|                                             | 120/208 V., 3Ø, 4W | PA-250578 |
|                                             | 277/480 V., 3Ø, 4W | PA-250581 |
|                                             | 600 V., 3Ø, 4W     | PA-250577 |
| 17.5kW<br>(Perkins<br>TK4-154)              | 120/240 V., 1Ø, 3W | PA-258341 |
|                                             | 120/240 V., 3Ø, 4W | PA-250579 |
|                                             | 139/240 V., 3Ø, 3W | PA-250579 |
|                                             | 120/208 V., 3Ø, 4W | PA-250579 |
|                                             | 277/480 V., 3Ø, 4W | PA-250581 |
|                                             | 600 V., 3Ø, 4W     | PA-250581 |
| 22.5kW<br>(Perkins 4-154 &<br>White G-1600) | 120/240 V., 1Ø, 3W | PA-269260 |
|                                             | 120/240 V., 3Ø, 4W | PA-269258 |
|                                             | 138/240 V., 3Ø, 3W | PA-269258 |
|                                             | 120/208 V., 3Ø, 4W | PA-259933 |
|                                             | 277/480 V., 3Ø, 4W | PA-269262 |
|                                             | 600 V., 3Ø, 4W     | PA-269259 |
| 24kW<br>(Perkins<br>TK4-154)                | 120/240 V., 1Ø, 3W | 290798    |
|                                             | 120/240 V., 3Ø, 4W | PA-259933 |
|                                             | 139/240 V., 3Ø, 3W | PA-259933 |
|                                             | 120/208 V., 3Ø, 4W | PA-269260 |
|                                             | 277/480 V., 3Ø, 4W | PA-269262 |
|                                             | 600 V., 3Ø, 4W     | PA-269259 |
| 32.5kW<br>(White G-2300 &<br>White D-2300)  | 120/240 V., 1Ø, 3W | 259249    |
|                                             | 138/240 V., 3Ø, 3W | PA-269260 |
|                                             | 120/208 V., 3Ø, 4W | 290870    |

| Model                        | Voltage            | Kit No.   |
|------------------------------|--------------------|-----------|
| 32.5kW<br>(Cont'd.)          | 277/480 V., 3Ø, 4W | PA-269261 |
|                              | 600 V., 3Ø, 4W     | PA-269262 |
| 47.5kW<br>(White<br>D-2300T) | 120/240 V., 1Ø, 3W | 269229    |
|                              | 138/240 V., 3Ø, 3W | 269230    |
|                              | 120/208 V., 3Ø, 4W | 259231    |
|                              | 277/480 V., 3Ø, 4W | PA-259994 |
|                              | 600 V., 3Ø, 4W     | PA-259994 |

The circuit breaker kit is used as an interrupting device to protect the machine and generator set from overload. The circuit breaker is installed on the same side as the controller face.

#### Warning

**UNIT STARTS WITHOUT NOTICE!** Units with Automatic Transfer Switches start automatically. Turn Generator Main Switch on controller to OFF position. Disable generator set. Place a rag over battery cells to prevent escape of explosive gases. Remove battery cables (remove ground lead first and reconnect it last).

#### Warning

**LEAD-ACID STARTING BATTERY!** Battery generates flammable hydrogen gas and contains acid. Use extreme care when handling or charging battery. Avoid contacting terminals with tools, etc. to prevent burns and to prevent sparks that could cause an explosion. Remove wristwatch, rings, and any other jewelry before handling battery. If acid splashes on skin, flush affected areas with cold water for 15 minutes. In case of eye contact, get immediate medical attention. Operate generator set and charge battery only in well-ventilated areas.

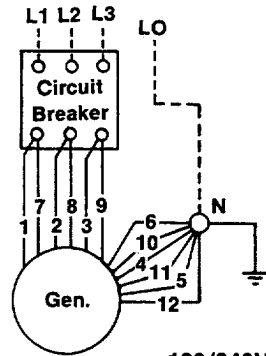
1. Disconnect the battery (negative lead first). Remove panel (see Figure 1 for location) on generator enclosure.
2. If installing a circuit breaker larger than 50 Amps remove the terminals from the load leads and replace with X-283-12 terminals.
3. Wire the circuit breaker according to proper wiring diagram.
4. Attach the panel to the generator enclosure with lock washers, screws, and flat washers. Assemble the flat washers between the breaker and the plate.
5. Reconnect battery (negative lead last).

Screws  
Lock Washers  
Flat Washers

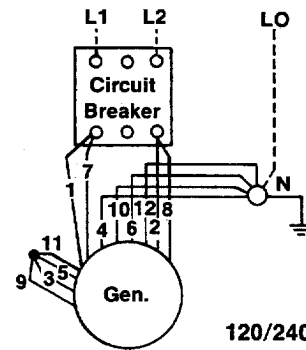
Breaker  
Panel

Circuit  
Breaker

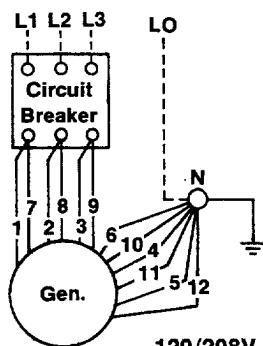
Figure 1. Mounting Circuit Breaker



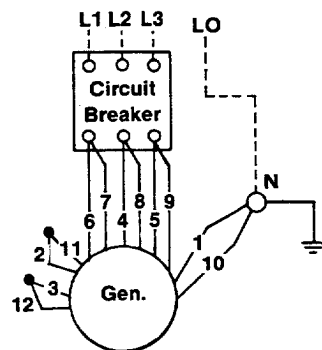
138/240V.  
30, 3 Wire



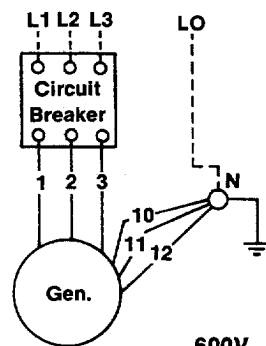
120/240V.  
10, 3 Wire



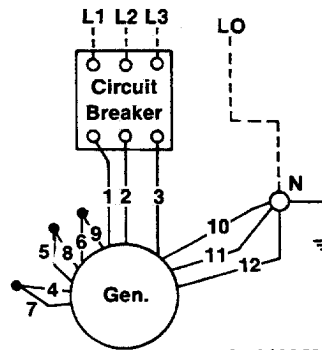
120/208V.  
30, 4 Wire



120/240V.  
30, 4 Wire



600V.  
30, 4 Wire



277/480V.  
30, 4 Wire

## Part Listing

| Description              | Part No. | Qty. | Description              | Part No. | Qty. |
|--------------------------|----------|------|--------------------------|----------|------|
| <b>Kit No. PA-250577</b> |          |      | <b>Kit No. PA-259933</b> |          |      |
| Washer, lock             | X-18-1   | 4    | Washer, lock             | X-18-1   | 4    |
| Washer, flat             | X-25-9   | 8    | Washer, flat             | X-25-9   | 8    |
| Screw                    | X-49-26  | 4    | Screw                    | X-49-26  | 4    |
| Panel, breaker           | 250576   | 1    | Terminal                 | X-283-12 | 6    |
| Breaker, circuit (20A)   | 269251   | 1    | Breaker, circuit (80A)   | 259932   | 1    |
|                          |          |      | Panel, breaker           | 269264   | 1    |
| <b>Kit No. PA-250578</b> |          |      | <b>Kit No. PA-259994</b> |          |      |
| Washer, lock             | X-18-1   | 4    | Washer, lock             | X-18-1   | 4    |
| Washer, flat             | X-25-9   | 8    | Washer, flat             | X-25-9   | 8    |
| Screw                    | X-49-26  | 4    | Screw                    | X-49-26  | 4    |
| Panel, breaker           | 250576   | 1    | Terminal                 | X-283-12 | 6    |
| Breaker, circuit (50A)   | 269249   | 1    | Panel, breaker           | 259993   | 1    |
|                          |          |      | Breaker, circuit (70A)   | 269253   | 1    |
| <b>Kit No. PA-250579</b> |          |      | <b>Kit No. PA-269255</b> |          |      |
| Washer, lock             | X-18-1   | 4    | Washer, lock             | X-18-1   | 4    |
| Washer, flat             | X-25-9   | 8    | Washer, flat             | X-25-9   | 8    |
| Screw                    | X-49-26  | 4    | Screw                    | X-49-26  | 4    |
| Terminal                 | X-283-12 | 6    | Breaker, circuit (50A)   | 269249   | 1    |
| Panel, breaker           | 250576   | 1    | Panel, breaker           | 269263   | 1    |
| Breaker, circuit (70A)   | 269253   | 1    |                          |          |      |
| <b>Kit No. PA-250580</b> |          |      | <b>Kit No. PA-269256</b> |          |      |
| Washer, lock             | X-18-1   | 4    | Washer, lock             | X-18-1   | 4    |
| Washer, flat             | X-25-9   | 8    | Washer, flat             | X-25-9   | 8    |
| Screw                    | X-49-26  | 4    | Screw                    | X-49-26  | 4    |
| Panel, breaker           | 250576   | 1    | Breaker, circuit (30A)   | 269250   | 1    |
| Breaker, circuit (40A)   | 269252   | 1    | Panel, breaker           | 269263   | 1    |
| <b>Kit No. PA-250581</b> |          |      | <b>Kit No. PA-269257</b> |          |      |
| Washer, lock             | X-18-1   | 4    | Washer, lock             | X-18-1   | 4    |
| Washer, flat             | X-25-9   | 8    | Washer, flat             | X-25-9   | 8    |
| Screw                    | X-49-26  | 4    | Screw                    | X-49-26  | 4    |
| Panel, breaker           | 250576   | 1    | Breaker, circuit (20A)   | 269251   | 1    |
| Breaker, circuit (30A)   | 269250   | 1    | Panel, breaker           | 269263   | 1    |
| <b>Kit No. PA-250582</b> |          |      | <b>Kit No. PA-269258</b> |          |      |
| Washer, lock             | X-18-1   | 4    | Washer, lock             | X-18-1   | 4    |
| Washer, flat             | X-25-9   | 8    | Washer, flat             | X-25-9   | 8    |
| Screw                    | X-49-26  | 4    | Screw                    | X-49-26  | 4    |
| Breaker, circuit (15A)   | 250575   | 1    | Terminal                 | X-283-12 | 6    |
| Panel, breaker           | 250576   | 1    | Breaker, circuit (70A)   | 269253   | 1    |
|                          |          |      | Panel, breaker           | 269264   | 1    |
| <b>Kit No. PA-258341</b> |          |      | <b>Kit No. PA-269259</b> |          |      |
| Washer, lock             | X-18-1   | 4    | Washer, lock             | X-18-1   | 4    |
| Washer, flat             | X-25-9   | 8    | Washer, flat             | X-25-9   | 8    |
| Screw                    | X-49-26  | 4    | Screw                    | X-49-26  | 4    |
| Terminal                 | X-283-12 | 6    | Breaker, circuit (30A)   | 269250   | 1    |
| Panel, breaker           | 250576   | 1    | Panel, breaker           | 269264   | 1    |
| Breaker, circuit (100A)  | 269254   | 1    |                          |          |      |
| <b>Kit No. PA-259910</b> |          |      | <b>Kit No. PA-269260</b> |          |      |
| Washer, lock             | X-18-1   | 4    | Washer, lock             | X-18-1   | 4    |
| Washer, flat             | X-25-9   | 8    | Washer, flat             | X-25-9   | 8    |
| Screw                    | X-49-26  | 4    | Screw                    | X-49-26  | 4    |
| Terminal                 | X-283-12 | 6    | Terminal                 | X-283-12 | 6    |
| Breaker, circuit (70A)   | 269253   | 1    | Breaker, circuit (100A)  | 269254   | 1    |
| Panel, breaker           | 269263   | 1    | Panel, breaker           | 269264   | 1    |

## Part Listing

| Description | Part No. | Qty. |
|-------------|----------|------|
|-------------|----------|------|

### Kit No. PA-269261

|                        |         |   |
|------------------------|---------|---|
| Washer, lock           | X-18-1  | 4 |
| Washer, flat           | X-25-9  | 8 |
| Screw                  | X-49-26 | 4 |
| Breaker, circuit (50A) | 269249  | 1 |
| Panel, breaker         | 269264  | 1 |

### Kit No. PA-269262

|                        |         |   |
|------------------------|---------|---|
| Washer, lock           | X-18-1  | 4 |
| Washer, flat           | X-25-9  | 8 |
| Screw                  | X-49-26 | 4 |
| Breaker, circuit (40A) | 269252  | 1 |
| Panel, breaker         | 269264  | 1 |

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