01.4IB.51051C
PowlVac® Remote Racking Device Assembly (51897G11)

For Use With PowlVac® CDR 5kV & 15kV Circuit Breakers
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Signal Words

As stated in ANSI Z535.4-2007, the signal word is a word that calls attention to the safety sign and designates a degree or level of hazard seriousness. The signal words for product safety signs are “Danger”, “Warning”, “Caution” and “Notice”. These words are defined as:

**DANGER**

*DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.*

**WARNING**

*WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.*

**CAUTION**

*CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.*

**CAUTION**

*CAUTION, used without the safety alert symbol, is used to address practices not related to personal injury.*

**NOTICE**

*NOTICE is used to address practices not related to personal injury.*

Qualified Person

For the purposes of this manual, a qualified person, as stated in NFPA 70®, is one who has skills and knowledge related to the construction and operation of the electrical equipment and installations and has received safety training to recognize and avoid the hazards involved. In addition to the above qualifications, one must also be:

1. trained and authorized to energize, deenergize, clear, ground, and tag circuits and equipment in accordance with established safety practices.
2. trained in the proper care and use of personal protective equipment (PPE) such as rubber gloves, hard hat, safety glasses or face shields, flash clothing, etc., in accordance with established safety practices.
3. trained in rendering first aid if necessary.
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Ch 1  General Information

⚠️ WARNING

The equipment described in this document may contain high voltages and currents which can cause death or serious injury.

The equipment is designed for use, installation, and maintenance by knowledgeable users of such equipment having experience and training in the field of high voltage electricity. This document and all other documentation shall be fully read, understood, and all warnings and cautions shall be abided by. If there are any discrepancies or questions, the user shall contact Powell immediately at 1.800.480.7273.

⚠️ WARNING

Prior to adjustments, servicing, maintenance, or any act requiring the operator to make physical contact with the equipment, the power source must be disconnected and the equipment grounded. Failure to do so may result in death or serious injury.

NOTICE

The information in this instruction bulletin is not intended to explain all details or variations of the Powell equipment, nor to provide for every possible contingency or hazard to be met in connection with installation, testing, operation, and maintenance of the equipment. For additional information and instructions for particular problems, which are not presented sufficiently for the user’s purposes, contact Powell at 1.800.480.7273.

NOTICE

Powell reserves the right to discontinue and to change specifications at any time without incurring any obligation to incorporate new features in products previously sold.
A. Scope

The information in this instruction bulletin describes the following PowlVac® Remote Racking Device and components for use with PowlVac CDR 5kV & 15kV vacuum circuit breakers:

- 51897G11 - Remote Racking Device and Motor Control Box (complete assembly)
- 51899G10 - Remote Racking Device
- 51895G01 - Motor Control Box

B. Purpose

The information in this instruction bulletin is intended to provide information required to properly operate and maintain the PowlVac Remote Racking Device and components described in Ch 1 General Information, A. Scope.

This instruction bulletin provides:

1. Safety guidelines
2. General descriptions of the operation and maintenance of the PowlVac Remote Racking Device and components
3. Instructions for installation
4. Illustrations, photographs, and description of the equipment described in Ch 1 General Information, A. Scope

The illustrations and photos in this document are provided as general information to aid in showing component locations only.

All illustrations and photos are shown using deenergized equipment.

WARNING

Follow the appropriate safety precautions while handling any of the equipment. Failure to do so may result in death or serious injury.

To the extent required, the products described herein meet the applicable ANSI, IEEE, and NEMA Standards; however, no such assurance is given with respect to local codes and ordinances which may vary greatly.

C. Instruction Bulletins Available Electronically

To contact the Powell Service Division call 1.800.480.7273 or 713.944.6900, or email info@powellservice.com.

For specific questions or comments pertaining to this instruction bulletin email documents@powellind.com with the Instruction Bulletin number in the subject line.
Ch 2  Safety

A. Safe Work Condition

The information in Section A is quoted from NFPA 70E 2012 - Article 120, 120.1 Establishing an Electrically Safe Work Condition.

120.1 Process of Achieving an Electrically Safe Work Condition

1. Determine all possible sources of electrical supply to the specific equipment. Check applicable up-to-date drawings, diagrams, and identification tags.

2. After properly interrupting the load current, OPEN the disconnecting device(s) for each source.

3. Wherever possible, visually verify that all blades of the disconnecting devices are fully OPEN or that drawout type circuit breakers are withdrawn to the fully disconnected position.

4. Apply lockout/tagout devices in accordance with a documented and established policy.

5. Use an adequately rated voltage detector to test each phase conductor or circuit part to verify they are deenergized. Test each phase conductor or circuit part both phase-to-phase, and phase-to-ground. Before and after each test, determine that the voltage detector is operating satisfactorily.

Informational Note: See ANSI/ISA-61010-1 (82.02.01)/UL 61010-1, Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements, for rating and design requirements for voltage measurement and test instruments intended for use on electrical systems 1000 V and below.

6. Where the possibility of induced voltages or stored electrical energy exists, ground the phase conductors or circuit parts before touching them. Where it could be reasonably anticipated that the conductors or circuit parts being deenergized could contact other exposed energized conductors or circuit parts, apply ground connecting devices rated for the available fault duty.

B. Safety Guidelines

Each user has the responsibility to instruct and supervise all personnel associated with usage, installation, operation, and maintenance of this equipment on all safety procedures. Furthermore, each user has the responsibility of establishing a safety program for each type of equipment encountered.

The safety rules in this instruction bulletin are not intended to be a complete safety program. The rules are intended to cover only some of the important aspects of personnel safety related to PowIVac® Remote Racking Device Assemblies.

C. General

1. Only supervised and qualified personnel trained in the usage, installation, operation, and maintenance of the circuit breaker shall be allowed to work on this equipment. It is mandatory that this instruction bulletin, any supplements, and service advisories be studied, understood, and followed.

2. Maintenance programs must be consistent with both customer experience and manufacturer’s recommendations, including service advisories and instruction bulletin(s). A well planned and executed routine maintenance program is essential for reliability and safety.
3. Service conditions and applications shall also be considered in the development of safety programs. Variables include ambient temperature; humidity; actual continuous current; thermal cycling; number of operations; interrupting duty; and any adverse local conditions including excessive dust, ash, corrosive atmosphere, vermin and insect infestations.

D. **SAFETY LABELS**

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**NOTICE**

*Warning and Caution labels are located in various places. Do NOT remove or deface any of these warning/caution labels.*
Ch 3  Equipment Description

A. General

The PowlVac® Remote Racking Device Assembly is an accessory which enables circuit breakers to be racked into and out of switchgear from a distance. The assembly consists of a motor control box (Figure 1, a) and remote racking device (Figure 1, b).

Figure 1  Remote Racking Device Assembly

B. Motor Control Box

The motor control box (Figure 2) supplies power enables the selection of operating modes for the remote racking device. The motor control box has a 50 foot long cord (Figure 2, b) with a plug that is inserted into the remote racking device twist lock receptacle (Figure 3, f). The length of cord enables the user to move to a safe distance from the circuit breaker during racking in and racking out procedures. The motor control box power supply cord is 6’ long and plugs into a 110VAC 15A outlet (Figure 2, a).

Figure 2  Motor Control Box

C. Remote Racking Device

The remote racking device (Figure 1, b) installs on the switchgear compartment door. The racking device support latch (Figure 3, a) attaches to a lock pin (Figure 10, b) installed on the compartment door. The racking device drive socket (Figure 3, e) engages the circuit breaker racking mechanism through the compartment door racking shaft access opening (Figure 5, d). After the racking device is installed, the adjustment knob (Figure 4, b) must be turned until the racking device drive socket engages with the circuit breaker racking shaft.

When the racking device is connected to the motor control box and energized, the drive socket operates the circuit breaker racking shaft (Figure 6, b) during racking in and racking out procedures.
**Figure 3** Remote Racking Device (Receptacle Side)

- a. Support Latch
- b. Recessed Bumpers
- c. Handle
- d. Drive Shaft and Spring
- e. Drive Socket
- f. Twist-Lock Receptacle
- g. Front Plate
- h. Slide Assembly

**Figure 4** Remote Racking Device (Lock Pin Side)

- a. Latch Pin Lock
- b. Adjustment Knob

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**D. REMOTE RACKING OPERATION**

![WARNING]

*Do NOT work on an energized circuit breaker. Follow circuit breaker safety guidelines and operating instructions provided in the specific circuit breaker instruction bulletin.*

Attaching and operating the remote racking device can be accomplished by one person. When circuit breaker racking is required, the remote racking device engages the circuit breaker racking shaft through the compartment door racking shaft access opening (Figure 5, d). The racking device is operated by the motor control box.
**Figure 5  Switchgear Compartment Door**

a. Compartment Door  
b. Support Lock Pin  
c. Circuit Breaker Racking Shaft Access Cover (Teardrop)  
d. Circuit Breaker Racking Shaft
Figure 6  Circuit Breaker Inside Switchgear Compartment

- a. Circuit Breaker in Compartment
- b. Circuit Breaker Racking Shaft
- c. Secondary Disconnect Receptacle
- d. Anti-Rollout Latch
- e. Compartment Floor
Ch 4 Installation

A. Receiving

Upon receipt, remove any shipping material and inspect the remote racking device for damage that may have occurred during shipment. If damage is found or suspected, file all claims immediately with the transportation company and notify the nearest Powell representative. Check the equipment received against the shipping documents to ensure receipt of the complete shipment.

B. Handling

The remote racking device weighs 20 lbs. and the motor control box assembly weighs 5 lbs. The preferred method for moving the remote racking device and motor control box is to place them securely on a hand operated shop cart. When handling the remote racking device, personnel should securely grasp the device by its handle during movement and installation to avoid possible personal injury or damage to the remote racking device. Avoid dropping or hitting the remote racking device with hard objects.

![CAUTION]

Protect the motor control box and the remote racking device from moisture. Failure to do so may cause damage to the equipment.

![CAUTION]

Do NOT handle or carry the remote racking device by the power cords. Damage to the power connections may cause an electrical short. The power cords should be inspected for any signs of damage before each use.

![WARNING]

Do not attempt to work with a remote racking device and motor control box if the electrical cords are damaged or if the devices have become wet. Using electrical equipment in or around water may cause electric shock and may result in injury to personnel and/or damage to equipment.

C. Storage

The remote racking device and motor control box are accessories that are not normally in continuous service. These accessories should be stored properly so that they will be available when needed. The following precautions must be taken to ensure proper storage of the remote racking device and motor control box.

1. DO NOT store the remote racking device and motor control box in the switchgear compartment.

2. The remote racking device and motor control box should be carefully protected against condensation. The device should be stored in a warm, dry room of moderate temperature, such as 40 - 100°F. Since the remote racking device and motor control box are to be energized during use, they must be kept completely dry to avoid accidental electric shock to personnel and/or damage to the equipment.

3. Store the remote racking device and motor control box in a clean location, free from corrosive gasses or fumes. Particular care should be taken to protect the devices from moisture and cement dust, as this combination has a very corrosive effect on many parts.
4. Apply *A-grease* on the drive shaft, under the spring, to prevent corrosion and help ensure proper operation.

5. If the remote racking device and motor control box are stored for any length of time, they should be inspected periodically for corrosion and to ensure they are in good mechanical condition.

### D. Preparation

**CAUTION**

*Prior to using the Remote Racking Device, refer to the Instruction Bulletin supplied with the circuit breaker for complete instructions on inserting and removing the circuit breaker in to or out of the compartment.*

1) **Support Lock Pin, Support Hanger, and Installation Template**

   **Note:** The circuit breaker must be removed from service when the support lock pin is installed.

   The lock pin and support hanger must be installed to support the remote racking device on the compartment door.

   A template for placing the support hanger in the correct location is available. Refer to *Table A, Renewal Parts*.

   When installed, the racking device support latch fastens onto the support lock pin, and the slide assembly engages the support hanger. The position of the racking device enables the drive socket to engage the circuit breaker racking shaft through the access door to perform racking procedures.

   To install the lock pin and support hanger, follow directions accompanying the parts order. For information on ordering the support lock pin, support hanger, and template, See *Ch 7 Recommended Renewal Parts*.

2) **Testing and Inspection**

   a. **Electrical Operation Check**

   To pretest the equipment, insert the 50’ cord from the box into the racking device locking receptacle. Then insert the motor control box power supply cord into a 110VAC 15A receptacle, and operate the box on the racking in and racking out settings while the device is not installed on the circuit breaker or compartment door.

   b. **Remote Racking Device Inspection**

   a. Inspect the remote racking device for proper lubrication, signs of wear, or damage. If plugs and wiring are damaged, return the equipment to Powell for repair.

   b. Inspect the switchgear compartment to ensure that it is clean and clear of debris that might interfere with circuit breaker racking and travel within the compartment.
Ch 5  Operation

The instructions in this section are intended to explain procedures for using the remote racking device and the motor control box. For circuit breaker handling, insertion, and removal procedures, review the instruction bulletin specific to the circuit breaker in use.

**WARNING**

Do NOT work on an energized circuit breaker. Follow circuit breaker safety guidelines and operating instructions provided in the specific circuit breaker instruction bulletin.

**CAUTION**

Prior to inserting the circuit breaker into the circuit breaker compartment, ensure that the circuit breaker is OPEN and the mechanism is discharged.

1. Ensure the remote racking device support lock pin (Figure 10, b) and the support hanger (Figure 9, d) are installed on the switchgear compartment door. See Ch 4 Installation, D. Preparation, 1) Support Lock Pin, Support Hanger, and Installation Template.

2. Ensure the switchgear compartment control circuit is deenergized.

3. Move the circuit breaker to the required switchgear location. Open the compartment door and push the circuit breaker into the compartment until the anti-rollout latch (Figure 6, d) engages the switchgear rollout stop block.

4. Insert the switchgear secondary disconnect device into the circuit breaker secondary disconnect receptacle (Figure 6, c).

5a. For non-arc resistant switchgear, perform the following steps:
   • Assemble the racking mechanism retainer assembly to the circuit breaker compartment.
   • Secure the racking drive shaft extension in place by placing the shaft retainer holder into the shaft retainer anchor, then lock the racking drive shaft extension in place using the wing nut.

5b. For arc resistant switchgear, close and latch the compartment door.

A. Installing and Operating the Remote Racking Device for Racking In

**CAUTION**

Before installing any circuit breaker into a compartment, the user MUST verify that the circuit breaker rating meets the metal-clad switchgear rating.

This section describes procedures for installing and operating the remote racking device for racking IN. For racking OUT procedures, refer to Ch 5 Operation, B. Installing and Operating the Remote Racking Device for Racking Out.

1) Installing the Remote Racking Device for Circuit Breaker Racking In

**CAUTION**

Prior to inserting the circuit breaker into the circuit breaker compartment, ensure that the control circuits are deenergized.
6. On the compartment door, rotate the teardrop shaped racking shaft access cover (Figure 5, c) clockwise to access the opening.

7. To prepare the remote racking device for operation, insert the plug of the motor control box cord into the remote racking device twist-lock receptacle (Figure 7). Turn the plug 1/4 turn clockwise to lock the plug in the receptacle.

8. Unlatch the racking device spring lock pin (Figure 8).

9. Grasp the remote racking device by the top handle with the drive socket toward the circuit breaker (Figure 9, a). Insert the drive socket into the racking shaft access opening until the socket engages the circuit breaker racking shaft. With the drive socket in place, position the racking device support latch (Figure 10, a) onto the support lock pin (Figure 10, b).

10. Push down the top of the racking device support latch to close the latch (Figure 10, a).

11. Turn the spring lock pin to the lock position to secure the remote racking device to the support lock pin (Figure 11, a).

12. With the racking device locked onto the support lock pin, raise the racking device slide assembly. Position the racking device close to the compartment door, and lower the slide assembly to engage the racking device support hanger (Figure 12).

13. With the racking device installed on the compartment door, turn the adjustment knob until it engages the drive socket with the circuit breaker racking shaft (Figure 13, a).

14. Physically move the motor control box to a distant area to operate the remote racking device.

To avoid damage to equipment, and ensure proper racking operation, the circuit breaker racking mechanism must be engaged by the racking socket before the remote racking device is operated. For proper operation, the racking device must be held securely by the support lock pin and the hanger support.
**Figure 8**  
Unlatch the Racking Device Spring Lock Pin

**Figure 9**  
Insert the Drive Socket into the Racking Shaft Access Opening

**Figure 10**  
Push Down the Support Latch

**Figure 11**  
Turn the Spring Lock Pin to Secure the Racking Device on the Support Lock Pin

- **a. Drive Socket**
- **b. Circuit Breaker Racking Shaft Access**
- **c. Sliding Support**
- **d. Support Hanger**

- **a. Support Latch**
- **b. Support Lock Pin**

- **a. Spring Lock Pin**
2) Performing Circuit Breaker Racking In

Before racking in a circuit breaker, ensure the remote racking device is installed properly, refer to Ch 5 Operation, A. Installing and Operating the Remote Racking Device for Racking In, 1) Installing the Remote Racking Device for Circuit Breaker Racking In.

1. Plug the motor control box power cord into a 110VAC 15A receptacle.
2. On the motor control box, move the power switch to the ON position (Figure 14, d).
3. On the motor control box, turn the selector switch to IN (Figure 14, c).
4. Depress the black push button on the selector switch (Figure 14, e). The red IN indicator lamp will illuminate. The remote racking device will begin to rack in the circuit breaker and will vibrate slightly.
5. When the circuit breaker is fully racked in, the remote racking device’s torque limiter will begin to slip and there will be a clear clicking sound along with a vibration of the racking device. At this point, release the push button.

**CAUTION**

Do not continue to rack in. If done, it may cause damage to the equipment.

6. On the motor control box, move the power switch to the OFF position.
7. Unplug the motor control box power cord from the 110VAC 15A electric receptacle when the racking in procedure is successfully completed.

*Note:* To uninstall the remote racking device, see Ch 5 Operation, C. Uninstalling the Remote Racking Device.
**Figure 14  Operate Motor Control Box**

- a. Racking IN Indicator Lamp
- b. Racking OUT Indicator Lamp
- c. IN/OUT Selector Switch
- d. Power Switch (ON) Position
- e. Push Button

**B. Installing and Operating the Remote Racking Device for Racking Out**

1) Installing the Remote Racking Device for Circuit Breaker Racking Out

*Note:* The remote racking device drive socket is installed through the compartment door racking shaft access cover.

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**CAUTION**

*Before installing the remote racking device, ensure the circuit breaker contacts are in the open (tripped) position. This should be done by remotely sending a trip signal to the circuit breaker. The manual trip function on the circuit breaker and/or switchgear door should only be used if the remote electrical signal cannot be used.*

1. Ensure the switchgear compartment is deenergized.
2. Ensure the remote racking device support lock pin (Figure 10, b) and the support hanger (Figure 9, d) are installed on the compartment door. See Ch 4 Installation, D. Preparation, 1) Support Lock Pin, Support Hanger, and Installation Template.
3. Move the remote racking device to the location where the circuit breaker is to be racked out of a compartment.
4. On the compartment door, rotate the teardrop shaped racking shaft access cover clockwise to access the opening (Figure 5, c).
5. To prepare the remote racking device for operation, insert the plug from the motor control box into the remote racking device twist lock receptacle (Figure 7). Turn the plug 1/4 turn clockwise to lock in the plug in the receptacle.
6. Unlatch the racking device spring lock pin (Figure 8).
7. Grasp the remote racking device by the top handle with the drive socket toward the circuit breaker (Figure 9). Insert the drive socket into the racking shaft access opening until it engages the circuit breaker racking shaft. With the drive socket in place, position the racking device support latch (Figure 10, a) onto the support lock pin (Figure 10, b).
8. Push down the top of the racking device support latch to close the latch (Figure 10, a).
9. Turn the spring lock pin to the lock position to secure the remote racking device to the support lock pin (Figure 11, a).
10. With the racking device locked onto the support lock pin (Figure 10, b), raise the racking device slide assembly (Figure 12, a). Position the racking device close to the cell door, and lower the slide assembly to engage the racking device support hanger.

To avoid damage to equipment, and ensure proper racking operation, the circuit breaker racking mechanism must be engaged by the racking socket before the remote racking device is operated.

11. With the racking device installed on the compartment door, turn the adjustment knob until it engages the drive socket with the circuit breaker racking shaft (Figure 13, a).

12. Physically move the motor control box to a distant area to operate the remote racking device.

The remote racking device is positioned on the switchgear compartment door (Figure 13) for racking out the circuit breaker.

Note: For racking out procedures, see Ch 5 Operation, B. Installing and Operating the Remote Racking Device for Racking Out.

2) Performing Circuit Breaker Racking Out

Do not work on an energized circuit breaker. Follow circuit breaker safety guidelines and operating instructions provided in the specific circuit breaker instruction bulletin.

Before performing racking out procedures, ensure the remote racking device is installed properly, refer to Ch 5 Operation, A. Installing and Operating the Remote Racking Device for Racking In.

1. Plug the motor control box power cord into a 110VAC 15A receptacle.

2. On the motor control box, move the power switch to the ON position (Figure 14, d).

3. On the motor control box, turn the racking direction selector to OUT position (Figure 14, c).

4. Depress the black push button on the racking direction selector and the green OUT indicator lamp comes on (Figure 14, b). The remote racking device proceeds to rack out the circuit breaker and will vibrate slightly.

5. When racking out of the circuit breaker is complete, the remote racking device motor will clutch out. As clutch out occurs, there will be a loud popping noise, and the racking device will vibrate strongly. At this point, release the black push button.
6. On the motor control box, move the power switch to the **OFF** position.

7. Unplug the motor control box power cord from the 110VAC 15A electric outlet when the racking in procedure is successfully completed.

To uninstall the remote racking device, refer to *Ch 5 Operation, C. Uninstalling the Remote Racking Device*.

### C. Uninstalling the Remote Racking Device

**CAUTION**

*Prior to removing the remote racking device from the circuit breaker compartment, make sure that the control circuits are deenergized.*

1. Ensure the racking device is deenergized by disconnecting the motor control box power cord from the 110VAC 15A receptacle.
2. Grasp the racking device handle to secure it while removing it from the compartment door.
3. On the racking device, release the spring lock pin by pulling it away from the latch and turning the pin to release it (*Figure 11*).
4. Lift the racking device support latch to release the circuit breaker support lock pin (*Figure 10*).
5. Raise the slide assembly to release it from the support hanger (*Figure 12*).
6. Pull the remote racking device straight out of the racking access hole to avoid damage to the circuit breaker or the racking device (*Figure 9*).
7. To disconnect the remote racking device plug, twist the plug $\frac{1}{4}$ turn counterclockwise and pull the plug out of the racking device (*Figure 7*).
**Ch 6  Maintenance**

**A. General**

A regular maintenance schedule should be established to obtain the best service and reliability from the remote racking device.

Actual inspection and maintenance will depend on individual application conditions such as number of racking operations, time between uses, and storage conditions. When the remote racking device has been in storage for an extended period of time, it must be inspected and cleaned before being used. See **Ch 4 Installation, C. Storage and D. Preparation, 3) Remote Racking Device Inspection**.

A permanent record of maintenance work and inspections should be kept. The degree of record detail depends on the operating conditions. The record should include the dates and results starting from the date the device is first put into service. Dates and results of inspections and routine maintenance activities should be recorded.

**B. Inspection and Cleaning**

Inspect the remote racking device for loose or damaged hardware or parts. Tighten any loose hardware, and replace missing or damaged hardware or parts.

When necessary, remove loose dust and dirt from the remote racking device with a vacuum cleaner, a clean, dry cloth, or an industrial type wiper. DO NOT use an air hose to clean the remote racking device. Dirt or grit may be blown into critical parts, including bearings, which will cause excessive wear of the parts.

**C. Lubrication**

Apply A-grease on the drive shaft, under the spring, to prevent rusting and help ensure proper operation.

Powell offers a complete lubrication kit (Powlube-104) which contains all the lubricants required for maintaining the remote racking device. Powlube-104 consists of (1) A-grease, (1) B-grease, and (1) C-oil. Prior to March 2014, Powell provided Powlube-101 and Powlube-102 which contained (1) tube of Anderol 757 or Rheolube 368A, (1) tube of Mobilgrease 28 and (1) bottle of Anderol A456 oil.

For all previous lubrication requirements Powlube-104, A-grease replaces Anderol 757 and Rheolube 368A, B-grease replaces Mobilgrease 28, and C-oil replaces Mobil 1 and Anderol 456.
Ch 7  Recommended Renewal Parts

A. Ordering Instructions

1. Order Renewal Parts from Powell at powellind.com or call 1.800.480.7273.

2. Always specify the complete nameplate information including:
   - Device Type
   - Serial Number
   - Rated Voltage
   - Rated Amps

3. Specify the quantity and description of the part and the instruction bulletin number. If the part is in the recommended renewal parts table, specify the catalog number. If the part is not in the table, a description should be accompanied by a marked illustration from this instruction bulletin, a photo or simply submit a sketch showing the part needed.

<table>
<thead>
<tr>
<th>Table A Renewal Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Name</td>
</tr>
<tr>
<td>Close Door Electric Racking Hanger Kit¹</td>
</tr>
<tr>
<td>Layout Template</td>
</tr>
<tr>
<td>PowlVac® Lubrication Kit</td>
</tr>
</tbody>
</table>

Note: 1. Each kit will need to be ordered separate for each breaker door.
01.4IB.51051C
PowlVac® Remote Racking Device Assembly
(51897G11)

For Use With PowlVac® CDR 5kV & 15kV Circuit Breakers

April 2016