Instruction Bulletin - 01.4IB.51813 Electric Remote Racking Device (51897G34)

for use with Powell Low Voltage Switchgear Equipped with Siemens WL Circuit Breakers 800-5000A
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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** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **CAUTION**, used without the safety alert symbol, is used to address practices not related to personal injury.
- **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 70E®, 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 electric remote racking device for Powell low voltage switchgear equipped with Siemens WL circuit breakers:

- 51897G34 - 800, 1600, 2000, 3200, 4000, & 5000A

B. **Purpose**

The information in this instruction bulletin is intended to provide information required to properly operate and maintain the Powell electric remote racking device described in Ch 1 General Information, A. Scope.

This instruction bulletin provides:

1. Safety guidelines
2. General descriptions on the operation of the Powell electric remote racking device
3. Instructions for installation
4. Illustrations, photographs, and description of the equipment described in Ch 1 General Information, A. Scope.

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

All photos and illustrations are shown using deenergized equipment.

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**WARNING**

Be sure to follow the appropriate safety precaution while handling any of the equipment. Failure to do so may result in serious injury or death.

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.

**NOTICE**

Changes to the instruction bulletin may be implemented at any time and without notice. Goto powellind.com to ensure use of the current instruction bulletin for the Powell equipment.

To contact the Powell Service Division call 1.800.480.7273, 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 2018 - Article 120, 120.5 Establishing an Electrically Safe Work Condition.

120.5 Process or Establishing and Verifying an Electrically Safe Work Condition. Establishing and verifying an electrically safe condition shall include all of the following steps, which shall be performed in the order presented, if feasible:

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. Release stored electrical energy.

5. Release or block stored mechanical energy.

6. Apply lockout/tagout devices in accordance with a documented and established procedure.

7. Use an adequately rated portable test instrument to test each phase conductor or circuit part to verify it is de-energized. Test each phase conductor or circuit part both phase-to-phase and phase-to-ground. Before and after each test, determine that the test instrument is operating satisfactorily through verification on any known voltage source.

N Exception No. 1: An adequately rated permanently mounted test device shall be permitted to be used to verify the absence of voltage of the conductors or circuit parts at the work location, provided it meets the all following requirements: (1) It is permanently mounted and installed in accordance with the manufacturer’s instructions and tests the conductors and circuit parts at the point of work; (2) It is listed and labeled for the purpose of verifying the absence of voltage; (3) It tests each phase conductor or circuit part both phase-to-phase and phase-to-ground; (4) The test device is verified as operating satisfactorily on any known voltage source before and after verifying the absence of voltage.

N Exception No. 2: On electrical systems over 1000 volts, noncontact test instruments shall be permitted to be used to test each phase conductor.

Informational Note No. 1: See UL 61010-1, Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements, for rating, overvoltage category, and design requirements for voltage measurement and test instruments intended for use on electrical system 1000 volts and below.

N Informational Note No. 2: For additional information on rating and design requirements for voltage detectors, refer to IEC 61243-1, Live Working - Voltage Detectors - Part 1: Capacitive type to be used for voltages exceeding 1kV a.c., or IEC 61243-2, Live Working - Voltage Detectors - Part 2: Resistive type to be used for voltages of 1kV to 36kV a.c., or IEC 61243-3, Live Working - Voltage Detectors - Part 3: Two-pole voltage type.
8. 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 de-energized could contact other exposed energized conductors or circuit parts, apply temporary protective grounding equipment in accordance with the following:

a. Placement. Temporary protective grounding equipment shall be placed at such locations and arranged in such a manner as to prevent each employee from being exposed to a shock hazard (i.e., hazardous differences in electrical potential). The location, sizing, and application of temporary protective grounding equipment shall be identified as part of the employer’s job planning.

b. Capacity. Temporary protective grounding equipment shall be capable of conducting the maximum fault current that could flow at the point of grounding for the time necessary to clear the fault.

N Informational Note: ATSM F855, Standard Specification for Temporary Protective Grounds to be Used on De-energized Electric Power Lines and Equipment, is an example of a standard that contains information on capacity of temporary protective grounding equipment.

c. Impedance. Temporary protective grounding equipment and connections shall have an impedance low enough to cause immediate operation of protective devices in case of unintentional energizing of the electric conductors or circuit parts.

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 Powell’s Electric Remote Racking Device for use on Siemens WL Circuit Breakers.
C. **GENERAL**

1. Only supervised and qualified personnel trained in the usage, installation, operation, and maintenance of the metal-enclosed switchgear 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; and any adverse local conditions including excessive dust, ash, corrosive atmosphere, vermin and insect infestations.

D. **SAFETY LABELS**

**NOTICE**

*Warning and Caution labels are located in various places in and on the switchgear and on the circuit breaker. Always observe these warnings and caution labels. Do NOT remove or deface any of these warning/caution labels.*
Ch 3 Equipment Description

A. General

The Powell electric remote racking device for Siemens WL low voltage circuit breakers is an accessory which enables circuit breakers to be racked into and out of switchgear from a distance. The accessory consists of a handheld motor control box (Figure 1, e) and electric racking device assembly (Figure 1, a, c, & d).

B. Motor Control Box

The motor control box (Figure 1, e) supplies power and enables the selection of operating modes for the electric racking device. The motor control box has a 50 foot cord (Figure 1, f) with a plug that is inserted into the electric racking device twist lock power cord receptacle (Figure 7, c). The length of the cord enables the user to move to a remote location from the circuit breaker during the racking in or racking out procedures. The motor control box power supply cord (Figure 1, b) plugs into a 120VAC outlet.

C. Electric Racking Device

The electric racking device uses four slotted holes and two spring loaded locking pins (Figure 5, a & b) to connect to the door of the compartment. The racking arm assembly is used to engage the breaker racking handle (Figure 6) on the circuit breaker. The motor control box (Figure 2) is used to operate the racking device from a safe distance.
Figure 1  Electric Remote Racking Device for Powell LV Switchgear Equipped with Siemens WL Circuit Breakers

- a. Spring Loaded Locking Pin
- b. Power Supply Cord
- c. Racking Arm Assembly
- d. Hanger Bracket
- e. Motor Control Box
- f. Control Box Cord
**Figure 2** Close-up of Motor Control Box

- a. Electrical Cord
- b. “In” Indicator Light
- c. “Out” Indicator Light
- d. Power Switch
- e. In/Out Selector Switch
- f. Push Button
- g. Handle
Ch 4 Installation

A. Receiving

Upon receipt, remove any shipping material and inspect the electric racking device for damage that may have occurred during shipment. Check the equipment received against the shipping documents to ensure receipt of the complete shipment.

B. Handling

The electric racking device weighs approximately 30 lbs and the motor control box assembly weighs 5 lbs. The preferred method for moving the electric racking device and motor control box is to place them securely on a hand operated shop cart. When handling the electric racking device, personnel should securely grasp the device by its handle during movement and installation to avoid possible personal injury or damage to the electric racking device. Avoid dropping or hitting the electric racking device with hard objects.

C. Storage

Shipping and storage of electrical equipment requires measures to prevent the deterioration of the apparatus over a long unused period. The mechanical and dielectric integrity must be protected. Electrical equipment is designed for use in a variety of environments. When the equipment is in transit and storage, these design considerations are not fully functional. In general, the following measures must be considered.

1. Equipment designed for indoor installation must be stored indoors in a climate controlled environment to prevent condensation of moisture. Exposure to rain and the elements, even for a short period, can permanently damage the equipment. Space heaters within the equipment should be energized, if so equipped. Humidity controlling desiccant materials should be utilized when space heaters are not provided or cannot be energized. The temperature should be kept above 33°F/1°C and below 140°F/60°C. The relative humidity should be kept below 60% or a dew point of 15°C/59°F. The equipment should be stored in such a manner as to leave all doors and panels accessible for inspection. The equipment must be inspected on a routine basis to assure operational integrity.
2. Equipment designed for outdoor exposure may be stored either in indoor or outdoor storage locations. The equipment must be protected from airborne external contaminants if stored outdoors. Outdoor storage will also require additional care to maintain temporary covers over the openings and shipping splits. The equipment must be provided with control power to facilitate the energization of space heaters, as well as other temperature and humidity controlling equipment. The temperature should be kept above freezing (>33°F/1°C) and below (<140°F/60°C). The relative humidity should be kept below 60% or a dew point of 15°C/59°F. The equipment should be stored in such a manner as to leave all doors and panels accessible for inspection. The equipment must be inspected on a routine basis to assure its integrity.

3. The auxiliary control devices, ship loose material and protective relays must also be protected. This includes items such as battery chargers, UPS systems, lighting, installation hardware and air conditioning. If prolonged storage is anticipated, humidity controlling desiccant materials should be utilized. Desiccant packets should be installed in all compartments and packing containers.
**Ch 5  Operation**

**A.  GENERAL**

**WARNING**

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

Attaching and operating the electric racking device can be accomplished by one person. When circuit breaker racking is required, the electric racking device engages the racking handle of the breaker. The racking device is operated by the motor control box.

For more information on the circuit breaker handling, see the instruction bulletin for the circuit breaker in use.

**B.  INSERTING THE CIRCUIT BREAKER INTO SWITCHGEAR COMPARTMENT**

**CAUTION**

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

Before using the electric racking device verify compliance with Siemens circuit breaker instruction bulletin.

1) **Racking Mechanism**

The racking mechanism is an integral part of the breaker and provides a means of moving the breaker from “DISCONNECT” to “TEST” to “CONNECT”. The breaker is equipped with interlocks and visual indicators for safety.

2) **Inserting the Circuit Breaker Into the Compartment**

Refer to the specific circuit breaker instruction bulletin for instructions to insert the circuit breaker into the compartment.

3) **Racking the Circuit Breaker Into the Compartment**

a. Verify the breaker door is closed and latched.

b. Verify the breaker is open (tripped) and the closing springs are discharged.

c. Prior to lifting the racking device into place, remove the two slotted screws (Figure 3, a) on the compartment door for the two spring loaded locking pins to engage and securely attach the device into place.
**Figure 3**  
*Figure 3 Circuit Breaker Compartment Door*

![Figure 3 Circuit Breaker Compartment Door](image)

- a. Slotted Screws (2)

**Figure 4**  
*Figure 4 Sliding the Racking Handle Assembly into Place*

![Figure 4 Sliding the Racking Handle Assembly into Place](image)

- a. Circuit Breaker Racking Handle Assembly
- b. Remote Racking Device Arm Assembly

d. Release the racking handle from the breaker and pull the handle half way out, not to the fully extended position (*Figure 4, a*). Refer to the circuit breaker instruction bulletin for more information on the circuit breaker racking handle operation.

e. Lift the racking device by the handles (*Figure 5*) and position the device by aligning the four slotted holes on the device with the four shoulder bolts mounted on the door (*Figure 5, a*).

f. Two spring loaded locking pins in the extended position (*Figure 5, b*) will engage the door when the device is securely attached.

**Figure 5**  
*Figure 5 Mounting the Remote Racking Device to the Circuit Breaker Door*

![Figure 5 Mounting the Remote Racking Device to the Circuit Breaker Door](image)

- a. Shoulder Bolt(s)
- b. Spring Loaded Locking Pin

g. Position the racking arm assembly on the electric racking device (*Figure 4, b*) to match the position of the breaker racking handle (*Figure 4, a*). The racking arm assembly can be positioned by hand.

h. With the racking device secured to the door, position the racking handle through the racking arm assembly on the racking device (*Figure 6*). Make sure the breaker racking handle is extended fully and locks in place.
**Operation**

**Figure 6  Racking Device Installed with Racking Handle Engaged**

a. Remote Racking Device Arm Assembly  
b. Circuit Breaker Racking Handle Assembly

i. Insert the control box cord *(Figure 1, f)* into the remote racking device motor *(Figure 7, c)*. Lock the plug by turning it clockwise.

**Note:** The housing on the push button is a switch, and can be rotated to either the “IN” or “OUT” positions.

**Figure 7  Connecting the Remote Racking Device Motor to the Motor Control Box**

a. Motor Control Box  
b. Racking Device Motor  
c. Control Box Receptacle

j. Ensure the motor control box power switch is in the “OFF” position *(Figure 2, d).*

k. Physically move the motor control box to a remote area and connect the power cord *(Figure 1, b)* to a 120VAC power source.

l. When racking “IN” turn the IN/OUT selector switch *(Figure 2, e)* on the motor control box to the “IN” position.

m. Move the power switch to the “ON” position *(Figure 2, d).*

**Note:** If the push button is released during operation the motor will stop.

**Figure 8  Activate Remote Racking Device**
o. When the push button is depressed, the “IN” indicator light (Figure 2, b) will be energized and illuminated.

p. When the breaker is fully racked “IN” the remote racking device 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. The breaker position indicator will read “CONNECT” (Figure 9, a).

Figure 9 Breaker Position Indicator

\[
\begin{array}{c}
  \text{a. “CONNECT” Position} \\
  \text{b. “TEST” Position} \\
  \text{c. “DISCONNECT” Position}
\end{array}
\]

Note: Excessive operation of this device beyond the travel required to rack “In” or rack “Out” the circuit breaker may damage the assembly. If the remote location that was selected is in a location where the breaker can not be seen and the torque limiter can not be heard it is suggested to perform a racking operation on dead bus and time the operation. Document the time and rack the breaker in and out using the documented time.

q. Disconnect the 120V power source.

r. Move the circuit breaker racking handle release lever (Figure 10, a) to the left to disconnect the remote racking device racking arm from the circuit breaker racking handle. Refer to the circuit breaker instruction bulletin for more information on the breaker racking handle operation.

Figure 10 Releasing the Remote Racking Device Arm Assembly from the Circuit Breaker Racking Handle

\[
\begin{array}{c}
  \text{a. Circuit Breaker Racking Handle} \\
  \text{Release Lever}
\end{array}
\]

s. Pull the two spring loaded locking pins (Figure 11, a) and rotate 1/4 turn counterclockwise to lock them out and to disengage the racking device from the door. Lift the device off of the mounting bolts to remove.
Figure 11  Pulling the Spring Loaded Locking Pin to the Extended Position

C. REMOVING THE CIRCUIT BREAKER FROM THE SWITCHGEAR COMPARTMENT

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

Prior to removing the circuit breaker from the circuit breaker compartment, ensure that the circuit breaker is OPEN.

1) Racking the Circuit Breaker out of the Compartment

Follow the steps below to remove the circuit breaker from the compartment:

a. Verify the breaker door is closed and latched.
b. Depress the push-to-trip button.
c. Verify the breaker is open (tripped)
d. Prior to lifting the racking device into place, remove the two slotted screws (Figure 3, a) on the compartment door for the two spring loaded locking pins to engage and securely attach the device into place.
e. Release the racking handle from the breaker and pull the handle half way out, not to the fully extended position (Figure 4, a). Refer to the circuit breaker instruction bulletin for more information on the breaker racking handle operation.
f. Lift the racking device by the handles (Figure 5) and position the device by aligning the four slotted holes on the device with the four shoulder bolts mounted on the door (Figure 5, a).
g. Two spring loaded locking pins in the extended position (Figure 5, b) will engage the door when the device is securely attached.
h. Position the racking arm assembly on the electric racking device (Figure 4, b) to match the position of the breaker racking handle (Figure 4, a). The racking arm assembly can be positioned by hand.
i. With the racking device secured to the door, position the racking handle through the racking arm assembly on the racking device (Figure 6). Make sure the breaker racking handle is extended fully and locks in place.
j. Insert the control box cord into the remote racking device motor (Figure 7, c). Lock the plug by turning it clockwise.
k. Ensure the motor control box power switch is in the “OFF” position (Figure 2, d).
l. Physically move the motor control box to a remote area and connect the power cord (Figure 1, b) to a 120VAC power source.
m. When racking “OUT” turn the IN/OUT selector switch (Figure 2, e) on the motor control box to the “OUT” position.

n. Move the power switch to the “ON” position (Figure 2, d).

**Note:** The housing on the push button is a switch, and can be rotated to either the “IN” or “OUT” positions.

o. To begin racking the circuit breaker out of the compartment, depress the push button on the motor control box (Figure 8).

**Note:** If the push button is released during operation the motor will stop.

p. When the push button is depressed, the “OUT” indicator light (Figure 2, c) will be energized and illuminated.

q. When the breaker is fully racked “OUT” the remote racking device 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. The breaker position indicator will read “DISCONNECT” (Figure 9, c).

**Note:** Excessive operation of this device beyond the travel required to rack “In” or rack “Out” the circuit breaker may damage the assembly. If the remote location that was selected is in a location where the breaker can not be seen and the torque limiter can not be heard it is suggested to perform a racking operation on dead bus and time the operation. Document the time and rack the breaker in and out using the documented time.

r. Disconnect the 120V power source.

s. Move the circuit breaker racking handle release lever (Figure 10, A) to the left to disconnect the remote racking device racking arm from the circuit breaker racking handle. Refer to the circuit breaker instruction bulletin for more information on the breaker racking handle operation.

t. Pull the two spring loaded locking pins (Figure 11, a) and rotate ¼ turn counterclockwise to lock them out and to disengage the racking device from the door. Lift the device off of the mounting bolts to remove.
Ch 6 Maintenance

A. GENERAL

A regular maintenance schedule should be established to obtain the best service and reliability from the electric 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 electric 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 and Operation, C. Storage.

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 electric 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 electric racking device with a vacuum cleaner, a clean, dry cloth, or an industrial type wiper. DO NOT use an air hose to clean the electric racking device. Dirt or grit may be blown into critical parts, including bearings, which will cause excessive wear of the parts.
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. The description should be accompanied by a marked illustration from this instruction bulletin, a photo or simply submit a sketch showing the part needed.
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