Loadbuster®—The S&C Loadbreak Tool
Outdoor Distribution (14.4 kV through 34.5 kV)

Installation

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Qualified Persons

⚠️ WARNING

The equipment covered by this publication must be installed, operated, and maintained by qualified persons who are knowledgeable in the installation, operation, and maintenance of overhead electric power distribution equipment along with the associated hazards. A qualified person is one who is trained and competent in:

• The skills and techniques necessary to distinguish exposed live parts from nonlive parts of electrical equipment

• The skills and techniques necessary to determine the proper approach distances corresponding to the voltages to which the qualified person will be exposed

• The proper use of the special precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools for working on or near exposed energized parts of electrical equipment

These instructions are intended only for such qualified persons. They are not intended to be a substitute for adequate training and experience in safety procedures for this type of equipment.

Read this Instruction Sheet

NOTICE

Read this instruction sheet thoroughly and carefully before installing or operating your Loadbuster—The S&C Loadbreak Tool. Familiarize yourself with the Safety Information and Safety Precautions on pages 8 through 10. The latest version of this publication is available online in PDF format at sandc.com/Support/Product-Literature.asp.

Retain this Instruction Sheet

This instruction sheet should be available for reference wherever and whenever the Loadbuster tool is to be used. Retain this instruction sheet in the Loadbuster tool carrying case (optional), or designate a location where you can easily retrieve and refer to this publication.

Warranty

The warranty and/or obligations described in S&C’s standard conditions of sale, as set forth in Price Sheet 150, plus any special warranty provisions, as set forth in the applicable product-line specification bulletin, are exclusive. The remedies provided in the former for breach of these warranties shall constitute the immediate purchaser's or end user's exclusive remedy and a fulfillment of all seller’s liability. In no event shall the seller's liability to the immediate purchaser or end user exceed the price of the specific product gives rise to the immediate purchaser's or end user's claim. All other warranties, whether express or implied or arising by operation of law, course of dealing, usage of trade, or otherwise, are excluded. The only warranties are those stated in Price Sheet 150, and THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY EXPRESS WARRANTY OR OTHER OBLIGATION PROVIDED IN PRICE SHEET 150 IS GRANTED ONLY TO THE IMMEDIATE PURCHASER AND END USER, AS DEFINED THEREIN. OTHER THAN AN END USER, NO REMOTE PURCHASER MAY RELY ON ANY AFFIRMATION OF FACT OR PROMISE THAT RELATES TO THE GOODS DESCRIBED HEREIN, ANY DESCRIPTION THAT RELATES TO THE GOODS, OR ANY REMEDIAL PROMISE INCLUDED IN PRICE SHEET 150.
 Proper Application

WARNING

Loadbuster tool must only be used for specific switching applications that are within the ratings of the tool selected. Loadbuster tool ratings are listed on a ratings label attached to the chassis of the tool.

Ratings

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loadbuster—The S&amp;C Loadbreak Tool use with overhead distribution devices</td>
<td>14.4/25 27 600 900</td>
<td>5300R3</td>
</tr>
<tr>
<td>Loadbuster—The S&amp;C Loadbreak Tool use in suitably designed pad-mounted gear</td>
<td>14.4/25 27 600 900</td>
<td>5300R3-E</td>
</tr>
<tr>
<td>Loadbuster—The S&amp;C Loadbreak Tool use with overhead distribution devices</td>
<td>25/34.5 38 600 900</td>
<td>5400R3</td>
</tr>
</tbody>
</table>

Application Notes

When used with appropriately designed “hook-equipped” disconnects, cutouts, power fuses, fuse limiters, and pad-mounted gear, the Loadbuster tool is suitable for these live-switching duties of single- or three-phase overhead distribution circuits through 34.5 kV and underground distribution circuits through 25 kV:

- **Transformer switching**—transformer load currents up through 600 amperes nominal, 900 amperes maximum, as well as transformer magnetizing currents associated with the applicable loads
- **Line switching**—load splitting (parallel or loop switching) and load dropping of currents up through 600 amperes nominal, 900 amperes maximum; also line dropping (charging currents typical for distribution systems of these voltage ratings)
- **Cable switching**—load splitting (parallel or loop switching) and load dropping of currents up through 600 amperes nominal, 900 amperes maximum; also cable dropping (charging currents typical for distribution systems of these voltage ratings)
- **Capacitor bank switching**—switching of single capacitor banks as follows:

<table>
<thead>
<tr>
<th>Loadbuster Catalog Number</th>
<th>Nominal System Voltage, kV, Three-Phase</th>
<th>Maximum Capacitor Bank Rating, kVac, Three Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Solidly or Effectively Grounded System</td>
<td>Ungrounded System</td>
</tr>
<tr>
<td></td>
<td>Singlebanks, Grounded-Wye Connected</td>
<td>Singlebanks, Ungrounded-Wye Connected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Singlebanks, Grounded- or Ungrounded-Wye Connected</td>
</tr>
<tr>
<td>5300R3</td>
<td>12 thru 14.4</td>
<td>1800</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>2400</td>
</tr>
<tr>
<td></td>
<td>20.8 thru 23.9</td>
<td>3000</td>
</tr>
<tr>
<td></td>
<td>24.9 and 26</td>
<td>3600</td>
</tr>
<tr>
<td>5400R3</td>
<td>20.8 thru 23.9</td>
<td>3000</td>
</tr>
<tr>
<td></td>
<td>24.9 and 26</td>
<td>3600</td>
</tr>
<tr>
<td></td>
<td>27.6</td>
<td>3600</td>
</tr>
<tr>
<td></td>
<td>34.5</td>
<td>4800</td>
</tr>
</tbody>
</table>

① Loadbuster tools must not be used for switching parallel (“back-to-back”) capacitor banks.

▲ Loadbuster tools must not be used for switching ungrounded-wye connected banks—or grounded-wye connected banks on ungrounded systems—where maximum system operating voltage exceeds 18 kV for Loadbuster—S&C’s Loadbreak Tool, Catalog Number 5300R3; or 29 kV for Loadbuster—S&C’s Loadbreak Tool, Catalog Number 5400R3.
Proper Application

Single-Pole Switching

In single-pole switching of ungrounded-primary three-phase transformers or banks (or single-phase transformers connected line to line), circuit connections or parameters may, in some cases, produce excessive overvoltages. In particular, for the following applications above 22 kV, single-pole switching by any means—including with the use of the Loadbuster tool—should be performed only under the conditions stated in italics:

- Switching unloaded or lightly loaded delta-connected or ungrounded-primary wye-wye connected three-phase transformers or banks (or line-to-line connected single-phase transformers), rated 150 kVA or less three-phase, or 50 kVA or less single-phase—or of any kVA rating when combined with unloaded cables or lines—where the maximum system operating voltage exceeds 22 kV. *(Single-pole switching should be performed only if each phase is carrying 5% load or more, or if the transformer or bank is temporarily grounded at the primary neutral during switching.)*

- Switching loaded or unloaded ungrounded-primary wye-delta connected three-phase transformers or banks—alone or combined with unloaded cables or lines—where maximum system operating voltage exceeds 22 kV. *(Single-pole switching should be performed only if each phase is carrying 5% load or more and if the lighting-load phase is always switched open first (or switched closed last), or if the transformer or bank is temporarily grounded at the primary neutral during switching.)*

Restrictions on Overhead and Underground Use

The Loadbuster Loadbreak Tool must be used only with disconnects, cutouts, power fuses, fuse limiters, or pad-mounted gear that meet S&C’s applicable minimum construction specifications found in the current revision of the following publication:

**DATA BULLETIN 811-60:**

| Loadbuster®—The S&C Loadbreak Tool Outdoor Distribution (14.4 kV through 34.5 kV) | Minimum Construction Specifications for Disconnects, Cutouts, and Power Fuses Qualifying for Use with the Loadbuster Tool |

**NOTICE**

Loadbuster the S&C Loadbreak tool, Catalog Number 5400R3, rated 25/34.5 kV, must not be used with metal-enclosed switchgear, metal-enclosed switches or fuses, or pad-mounted gear, of any make.
Although the interrupting ratings of Loadbuster—S&C’s Loadbreak Tool, Catalog Number 5400R3, rated 25/34.5 kV, are equally applicable at lower voltages, it must not be used with the following devices because the fuse tube or blade travel of such devices is too short to accommodate the Loadbuster tool’s operating stroke:

- Cutouts, power fuses, or fuse limiters of any make, rated 110 kV BIL or less
- Disconnects, cutouts, power fuses, or fuse limiters, of any make rated 7.2/14.4 kV, 7.8/13.8 kV, 8.25 kV, or less
- Disconnects, of any make rated 125 kV BIL or less
- S&C Fuse Cutouts—Type XS, Station Style, Catalog Number 189131 (with or without catalog number supplements)

Loadbuster tools should not be used for any applications where maximum system operating voltage exceeds the Loadbuster tool’s maximum voltage rating.

**Clearance Requirements for Use in Pad-Mounted Gear**

For applications of Loadbuster—S&C’s Loadbreak Tool (Catalog Number 5300R3-E) in pad-mounted gear, the Loadbuster tool must be equipped with an extended insulating hood (Catalog Number NA-1034) and the pad-mounted gear must be equipped with rigid insulating barriers to prevent:

- Accidental contact of the Loadbuster tool’s metal parts with adjacent phases during switching
- Accidental grounding of the Loadbuster tool’s metal parts to enclosure walls, door stiles, or switch mounting bases during switching

Specifically, barriers must ensure the following minimum clearances between metal parts of the Loadbuster tool and ground during a switching operation:

<table>
<thead>
<tr>
<th>Maximum System Operating Voltage, kV</th>
<th>Clearance, Inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up through 15.5</td>
<td>1 (26)</td>
</tr>
<tr>
<td>Above 15.5 through 27</td>
<td>2 (51)</td>
</tr>
</tbody>
</table>
Operating Considerations

- Never position the Loadbuster tool so its outer tube obscures the line of vision. (See Figure 1 on page 7 for correct positioning.)

- To coordinate Loadbuster—S&C’s Loadbreak Tool’s (Catalog Number 5300R3) maximum voltage rating of 27 kV when used with fuse cutouts, disconnects, power fuses, or fuse limiters of made by other manufacture, the open gap on the cutout, disconnect, fuse, or fuse limiter when the tool is ready to trip must approximate $3\frac{3}{4}$ inches (99 mm) minimum. (For more details, see S&C Data Bulletin 811-60.)

  To coordinate the Loadbuster tool’s (Catalog Number 5400R3) maximum voltage rating of 38 kV when used with fuse cutouts, disconnects, power fuses, or fuse limiters of other manufacture, the open gap on the cutout, disconnect, fuse, or fuse limiter when the tool is ready to trip must approximate $5\frac{3}{4}$ inches (134 mm) minimum. (For a more detailed discussion of this and other requirements, see S&C Data Bulletin 811-60.)

- After each operation, immediately remove the Loadbuster tool from the fuse cutout, disconnect, power fuse, fuse limiter, or pad-mounted gear and reset it. Instructions for resetting the Loadbuster tool can be found in Step 5 on page 15.

**NOTICE**

A carrying case, Catalog Number 5380R1, is recommended for the Loadbuster tool. The molded, high-density polyethylene carrying case protects the Loadbuster tool against potentially damaging vibration, mechanical shock, and contamination during storage or transport.
For usual operating conditions, the Loadbuster tool is fastened to a universal pole (stick) not less than six feet long (eight feet for Catalog Number 5400R3) with the frame of the tool in line with the pole.

As shown in Figure 1, Detail A or B, Loadbuster tool must be attached so it reaches across in front of the fuse cutout, disconnect, power fuse, or fuse limiter. That is, the Loadbuster anchor must be hooked to the attachment hook on the far side of the device. The Loadbuster tool should never be attached with its anchor hooked on the closest side of the fuse cutout or other device as shown in Detail C or D. Attaching the tool in this manner would not only obscure the operator’s line of vision, but it could also result in placing a bending stress on the tool and make disengagement difficult.

When the Loadbuster tool is properly attached, as shown in Figure 1, Detail A or B, a downward pull of the pole to open the fuse cutout, disconnect, power fuse, or fuse limiter extends the Loadbuster tool and charges an internal spring. At a predetermined point in the opening stroke, a trigger inside the tool trips, releasing the charged spring—thus separating the internal contacts and interrupting the circuit. Successful operation is independent of the speed with which the fuse cutout, disconnect, power fuse, or fuse limiter is opened.

**NOTICE**

When operating from a bucket truck, stay at least five feet below the device and in front of fuse cutouts, fuse limiters, and vertically mounted disconnects and fuses. When disconnects are mounted inverted, approach the attachment hook from the hinge end, staying well below the device to be opened so excessive horizontal force is not exerted on the insulator. (See Figures 2 and 3 on page 12.)

Although many words and illustrations are used here to describe the operation of the Loadbuster tool, correct techniques can be mastered quite easily. It is advisable, however, to spend a reasonable amount of time practicing with the Loadbuster tool on a de-energized fuse cutout, power fuse, fuse limiter, or disconnect. The operating steps illustrated in Figures 4 through 7, covering opening of a power fuse, apply equally to a fuse cutout, fuse limiter, or disconnect.
Several types of safety-alert messages may appear throughout this instruction sheet are on labels attached to the crate, packing, and equipment. Familiarize yourself with these types of messages and the importance of these various signal words.

**DANGER**

“DANGER” identifies the most serious and immediate hazards that will likely result in serious personal injury or death if instructions, including recommended precautions, are not followed.

**WARNING**

“WARNING” identifies hazards or unsafe practices that can result in serious personal injury or death if instructions, including recommended precautions, are not followed.

**CAUTION**

“CAUTION” identifies hazards or unsafe practices that can result in minor personal injury if instructions, including recommended precautions, are not followed.

**NOTICE**

“NOTICE” identifies important procedures or requirements that can result in product or property damage if instructions are not followed.

If you do not understand any portion of this instruction sheet and need assistance, contact your nearest S&C Sales Office or S&C Authorized Distributor. Their telephone numbers are listed on S&C’s website sandc.com, or call S&C Headquarters at (773) 338-1000; in Canada, call S&C Electric Canada Ltd. at (416) 249-9171.

If you need additional copies of this instruction sheet, contact your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd.

It is important that any missing, damaged, or faded labels on the equipment be replaced immediately. Replacement labels are available by contacting your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd.
Reorder Information for Safety Information

<table>
<thead>
<tr>
<th>Location</th>
<th>Safety Alert Message</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>NOTE</td>
<td>To ensure resetting, depress telescoping tube until orange band ...</td>
<td>G-5840R1</td>
</tr>
<tr>
<td>B</td>
<td>WARNING</td>
<td>RESET AFTER EACH OPERATION—To check for proper resetting ...</td>
<td>G-4401 (for 5300R3) G-4401 (for 5300R3-E) G-4320 (for 5400R3)</td>
</tr>
</tbody>
</table>
DANGER

The Loadbuster Loadbreak Tool is used to switch equipment that operates at high voltage. Failure to observe the precautions below will result in serious personal injury or death.

Some of these precautions may differ from your company’s operating procedures and rules. Where a discrepancy exists, follow your company’s operating procedures and rules.

1. QUALIFIED PERSONS. Access to a Loadbuster Loadbreak Tool must be restricted only to qualified persons.
2. SAFETY PROCEDURES. Always follow safe operating procedures and rules. Always maintain proper clearance from energized components.
3. PERSONAL PROTECTIVE EQUIPMENT. Always use suitable protective equipment such as rubber gloves, rubber mats, hard hats, safety glasses, arc-flash clothing, and fall protection in accordance with safe operating procedures and rules.
4. SAFETY LABELS and TAGS. Do not remove or obscure any of the “DANGER,” “WARNING,” “CAUTION,” or “NOTICE” labels. Remove tags ONLY if instructed to do so.
5. ENERGIZED COMPONENTS. Always consider all parts live until de-energized, tested, and grounded.
6. MAINTAINING PROPER CLEARANCE. Always maintain proper clearance from energized components.
7. OPERATION. Never position the Loadbuster Loadbreak Tool so the outer tube obscures your line of vision. (See Figure 1 on page 7 for correct positioning.)
8. RESETTING. Keep hands clear during resetting. The Loadbuster tool is spring loaded. Pulling the resetting latch will cause the anchor end of the tool to move down quickly. Keep hands in the position shown in Figure 7 on page 15.
**Inspection**

Examine the shipment for external evidence of damage as soon after receipt as possible, preferably before removal from the carrier’s conveyance. Check the bill of lading to make sure all listed shipping skids, crates, cartons, and containers are present.

- If there is visible loss and/or damage:
  1. Notify the delivering carrier immediately.
  2. Ask for a carrier inspection.
  3. Note condition of shipment on all copies of the delivery receipt.
  4. File a claim with the carrier.

- If concealed damaged is discovered:
  1. Notify the delivering carrier within 15 days of receipt of shipment.
  2. Ask for a carrier inspection.
  3. File a claim with the carrier.

Notify S&C Electric Company in all instances of loss or damage.
Figure 2. Recommended aerial bucket positions for an operator using the Loadbuster tool with overhead distribution devices.

Figure 3. Recommended pole positions for an operator using the Loadbuster tool with overhead distribution devices.
Overhead Distribution Devices

Check for proper resetting of the Loadbuster tool by extending the tool about three inches (77 mm) by hand. Throughout this travel, an increasing spring resistance should be felt.

**NOTICE**

Although the text and figures that follow describe the operation of the Loadbuster tool with SMD-20 power fuses, the procedure is equally applicable to fuse cutouts, disconnects, power fuses, and fuse limiters.

**Step 1**

*Reach across in front* of the power fuse with the Loadbuster tool and hook the anchor, located at the top of Loadbuster tool over the attachment hook *on the far side* of the power fuse. See Figure 4.

**Step 2**

Swing the Loadbuster tool toward the power fuse and pass the Loadbuster tool pull-ring hook through the pull-ring on the power fuse. The pull-ring latch will deflect and, upon complete entry of the pull-ring, will spring back, locking the Loadbuster tool to the pull-ring. The Loadbuster tool is now connected across the upper contact of the power fuse. See Figure 4.

![Figure 4. The Loadbuster tool connected to an S&C Power Fuse—Type SMD-20, Outdoor Distribution.](image)
Step 3
To open the circuit, operate the Loadbuster tool with a firm, steady pull until it is extended to its maximum length. See Figure 5. Avoid jerking and hesitating. The resetting latch will keep it open. Generally, there will be no indication of circuit interruption but minor arcing may be noted at the pull-ring hook and at the anchor, particularly when interrupting load currents approach the rating of the tool. The only sound will be that of the Loadbuster tool tripping.

Step 4
To detach the Loadbuster tool after circuit interruption, first raise it slightly and disengage the anchor from the attachment hook.

⚠️ CAUTION
When the Loadbuster tool is raised, the open gap distance is reduced. Careless manipulation could decrease the open gap to the point where flashover will occur.

Next, bring the power fuse toward its fully open position as illustrated in Figure 6 (this procedure is recommended as uniform practice because disconnects will not necessarily open fully by gravity). Remove the Loadbuster tool from the pull-ring by turning the pole. This will deflect the pull-ring latch to release the pull-ring. On fuse cutouts, fuse limiters or power fuses on which the fuse tube or power fuse will drop fully open by gravity, it may be preferred to remove the Loadbuster tool by “rolling” it off both the attachment hook and pull-ring at the same time merely by twisting the pole after the Loadbuster tool has been tripped and fully extended. To perform this operation easily and smoothly, always roll the Loadbuster tool so it rotates in an upward direction.

Figure 5. The Loadbuster tool in the tripped position.

Figure 6. Detaching the Loadbuster tool from a power fuse.
Step 5

To reset the Loadbuster tool for the next operation, hold as shown in Figure 7. Extend the tool slightly and lift the resetting latch with the thumb. With the latch up, press down on the inner tube assembly until the tool is closed completely so the trigger can reset itself. When reset properly, the orange paint on the inner tube assembly will no longer be visible. Check for proper resetting by extending the tool about three inches (77 mm). Throughout this travel an increasing spring resistance should be felt.

Figure 7. Resetting the Loadbuster tool.
Operation

Pad-Mounted Gear

The Loadbuster—S&C’s Loadbreak Tool (Catalog Number 5300R3-E) makes an interrupter switch out of every power fuse or disconnect switch in pad-mounted gear suitably equipped with the attachment hook. Operation in pad-mounted gear is similar to that of overhead distribution devices in most respects.

**CAUTION**

To avoid partial opening or flashover, Loadbuster Loadbreak Tool, Catalog Number 5400R3 rated 25/34.5 kV, must not be used with metal enclosed switchgear, metal-enclosed fuses, or pad-mounted gear. There is not enough clearance to use the 5400R3 on these devices.


When using the Loadbuster tool in pad-mounted gear, avoid any tendency to grasp the pole close to the Loadbuster tool end. Be sure, instead, to grasp the pole near the end opposite the Loadbuster tool.

Although the text and figures following describe the operation of the Loadbuster—S&C’s Loadbreak Tool (Catalog Number 5300R3-E) with power fuses in pad-mounted gear, the procedure is equally applicable to that employed with disconnect switches in pad-mounted gear.
Step 6
Reach across in front of the fuse unit or holder with the Loadbuster tool and hook the anchor, located at top of the Loadbuster tool, over the attachment hook on the far side of the fuse unit or holder. See Figure 8 on page 16. Note that only one attachment hook is provided.

Step 7
Swing the Loadbuster tool toward the fuse unit or holder and pass the Loadbuster tool pull-ring hook through the pull-ring of the fuse unit or holder. The pull-ring latch will deflect and, upon complete entry of the pull-ring hook, will spring back, locking the Loadbuster tool to the pull-ring. The Loadbuster tool is now connected across the upper contact of the power fuse. See Figure 9 on page 16.

Step 8
To open the circuit, operate the Loadbuster tool with a firm, steady pull until it is extended to its maximum length. See Figure 10. Avoid jerking and hesitation. The resetting latch will keep it open. Commutation arcing may be noted at the pull-ring hook and at the anchor, but the only sound will be that of the Loadbuster tool tripping.

Step 9
To detach the Loadbuster tool after circuit interruption, roll the tool upward by turning the pole. See Figure 11. This will deflect the pull-ring latch to release the pull-ring hook from the pull-ring of the fuse unit or holder. Disengage the anchor from the attachment hook and withdraw the tool.

Step 10
Reset the Loadbuster tool for the next operation as described in Step 5 on page 15.
Understanding the Operation Counter

Loadbuster tools manufactured after March 2003 are equipped with a non-resettable operation counter feature that lets you monitor the use of your tools to make more informed decisions with regard to inspection and maintenance. The operation counter is built into the Loadbuster tool’s silencer and can be easily added to existing tools.

Figure 12. The Loadbuster tool’s operation counter.