



Installation

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Introduction

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 non-live 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

Read this instruction sheet thoroughly and carefully before installing or operating your S&C Loadbuster Disconnect Switch. Familiarize yourself with the safety information and precautions on pages 3 and 4. The latest version of this publication is available online in PDF format at sandc.com/Support/Product-Literature.asp

Retain this Instruction Sheet Proper Application

This instruction sheet is a permanent part of your S&C Loadbuster Disconnect Switch. Designate a location where you can easily retrieve and refer to it.

CAUTION

The S&C Loadbuster Disconnect Switches described in this publication must be selected for a specific application that is within the ratings furnished for the equipment. Ratings for each disconnect switch are listed on a ratings label found on the base of the disconnect switch.

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 immediate purchaser's or end user's exclusive remedy and a fulfillment of all seller's liability. In no event shall seller's liability to immediate purchaser or end user exceed the price of the specific product which gives rise to 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.

Understanding Safety-Alert Messages

There are several types of safety-alert messages which may appear throughout this instruction sheet as well as on labels affixed to S&C Loadbuster Disconnect Switch. Familiarize yourself with these types of messages and the importance of the various signal words, as explained below.

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


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

⚠ CAUTION
“CAUTION” identifies hazards or unsafe practices that <i>can</i> result in minor personal injury or product or property damage if instructions, including recommended precautions, are not followed.

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

Following Safety Instructions

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.

NOTICE	
Read this instruction sheet thoroughly and carefully before installing or operating your S&C Loadbuster Disconnect Switch.	

Replacement Instructions and Labels

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.

Safety Precautions

DANGER



Disconnect Switches may be energized from either side, and with the blade in any position. Always consider all circuits and disconnect live parts energized until de-energized, tested, and grounded. **Contact with energized live parts can cause serious personal injury or death.**

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 that all shipping skids, crates, and containers listed thereon 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.

Also notify S&C Electric Company in all instances of loss and/or damage.

Installing the Loadbuster Disconnect Switch

- STEP 1.** Remove the disconnect switch from its shipping carton.
- STEP 2.** Install blade stop pin in desired location. S&C Loadbuster Disconnect Switches—Overhead Pole-Top Style are furnished with a factory-installed blade stop pin, positioned for a 160-degree blade opening angle. This stop pin may be moved to limit the blade opening to 90 degrees. Remove the retaining ring from one end of the stop pin, and relocate pin to the alternate ¼-inch diameter hole nearest the hinge. Fasten the stop pin by pressing the retaining ring over the end of the stop pin until the ring snaps back into the groove provided. See Figure 1.
- STEP 3.** Attach the Loadbuster Disconnect Switch to a suitable mounting bracket as illustrated in Figure 2. Note: A mounting bracket—suitable for crossarm, pole, or wall mounting—is furnished only if it has been specified through the addition of suffix “-B” to catalog number of Loadbuster Disconnect Switch. Tighten the carriage bolt nut until snug but still loose enough to permit pivot adjustment. Note the placement of the external-tooth lockwasher between the disconnect center insert and the mounting bracket.
- STEP 4.** Pivot the disconnect switch to a position that will provide maximum ease of operation and then securely tighten the carriage bolt nut.
- STEP 5.** Make electrical connections. If you’re using aluminum conductors, be sure to wire-brush them and apply a coating of oxidation inhibitor S&C Part Number 0352-006. (Sanchem NO-OX-ID “A” Special or equivalent) before inserting them into the disconnect switch’s connectors.

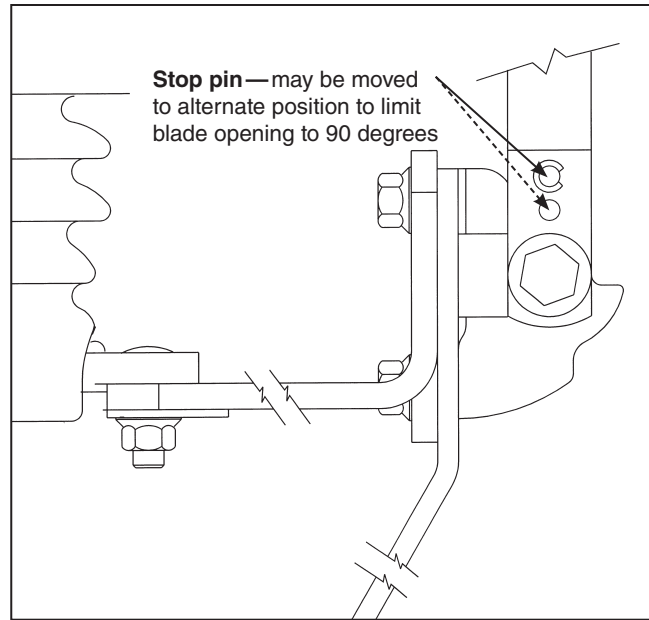


Figure 1. Location of stop pin.

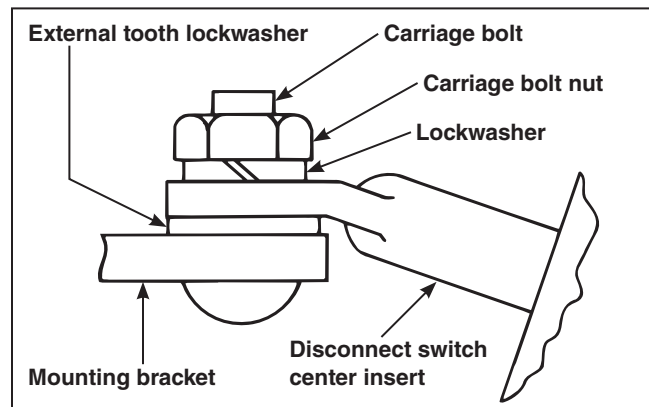


Figure 2. Attachment of Loadbuster Disconnect Switch to mounting bracket.

Closing the Disconnect Switch

Insert a distribution prong into the pull-ring and swing the blade to within approximately 45° of the fully closed position. Then, while looking away from the disconnect switch, drive the blade to the closed position using a vigorous thrust. Carefully disengage the prong from the pull-ring taking care to avoid pulling the blade open.

Opening the Disconnect Switch

WARNING

Do not attempt to open an S&C Loadbuster Disconnect Switch to interrupt load current, without the use of a loadbreak tool such as S&C's Loadbuster Tool. **An arc started by opening a disconnect switch under load without a loadbreak tool can cause arcing, equipment damage, serious injury, or death.**

S&C's Loadbuster Tool is ideally suited for use in opening Loadbuster Disconnect Switches. Loadbuster Tool is S&C's unique method of providing low-cost, positive, and convenient live-switching capability for such devices. Instructions for use of Loadbuster Tool with S&C Loadbuster Disconnect Switches are on pages 8 and 9 .

Opening Disconnect Switch with Loadbuster—The S&C Loadbreak Tool

Before opening the disconnect switch, 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.

STEP 1. Reach the Loadbuster tool across in front of the disconnect switch and hook the anchor, located at the top of Loadbuster tool, over the attachment hook on the far side of the disconnect switch. See Figure 3.

STEP 2. Swing Loadbuster tool toward the disconnect switch and pass the Loadbuster tool pull-ring hook through the pull-ring on the disconnect switch. The pull-ring latch will deflect and upon complete entry of the pull-ring, will spring back, locking Loadbuster tool to the pull-ring. Loadbuster tool is now connected across the upper contacts of the disconnect switch.

STEP 3. To open the circuit, operate Loadbuster tool with a firm, steady pull until it is extended to its maximum length. See Figure 4. Avoid jerking and hesitation. The resetting latch will keep it open. Generally, there will be no indication of circuit interruption. The only sound will be that of Loadbuster tool tripping.

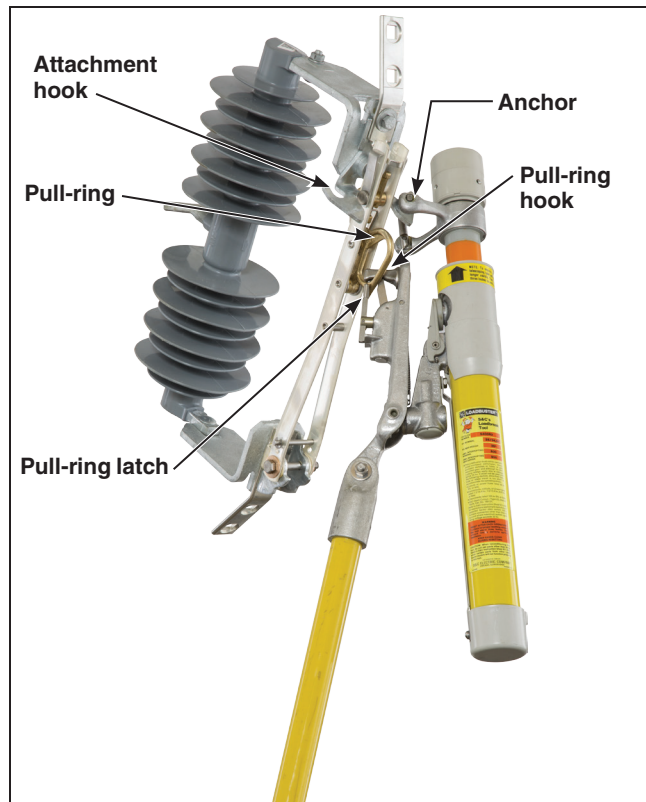


Figure 3. Loadbuster tool connected to an S&C Loadbuster Disconnect Switch.



Figure 4. Loadbuster tool in tripped position.

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

Next, bring the disconnect switch toward its fully open position as illustrated in Figure 5. Then remove Loadbuster tool from the pull-ring by rotating the pole. This will deflect the pull-ring latch to release the pull-ring. To perform this operation easily and smoothly, always roll Loadbuster tool so that it rotates in a downward direction.

WARNING

Careless manipulation of the Loadbuster tool can decrease the open gap to the point where flashover will occur. **This can result in arcing, electrical shock, serious injury, or death.**

STEP 5. To reset Loadbuster tool for the next operation, hold as shown in Figure 6. Extend the tool slightly and lift the resetting latch with your thumb. With the latch up, telescope the tool completely so the trigger can reset itself. Depress the telescoping tube until the orange paint on the inner tube assembly is no longer 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 5. Detaching Loadbuster tool from disconnect switch.

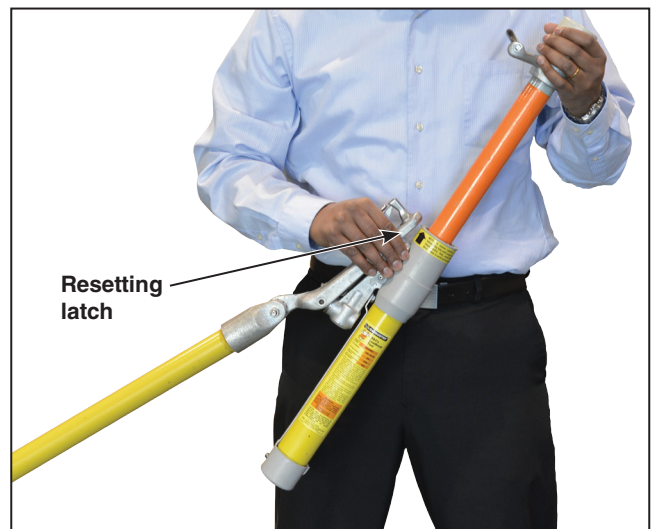


Figure 6. Resetting Loadbuster tool.

