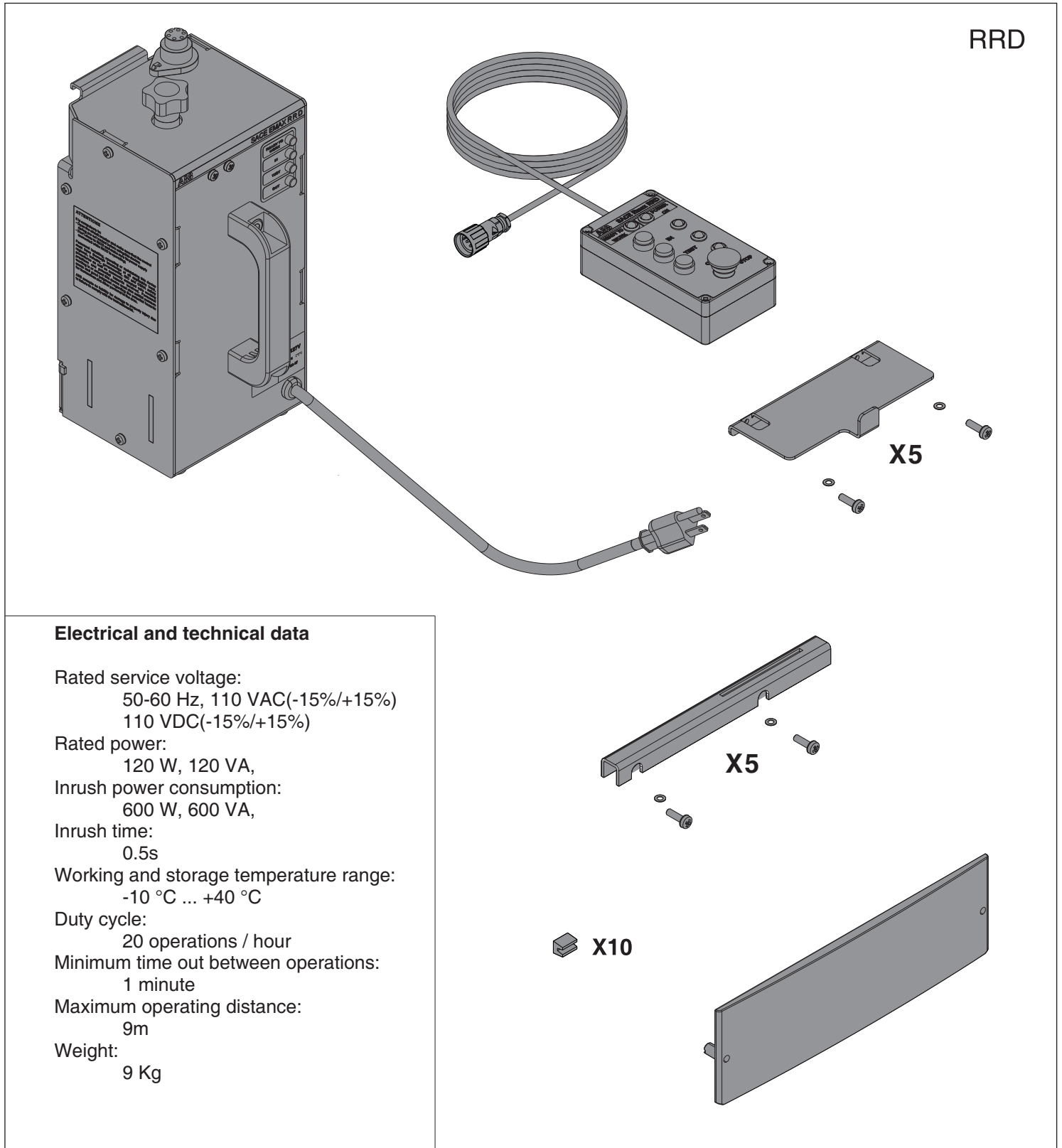


RRD - Remote Racking Device for Emax: installation and instructions





WARNING



**HAZARDOUS VOLTAGE
CAN SHOCK, BURN
OR CAUSE DEATH.**

**Do not attempt to handle, install, use or service
this product before reading instruction book**

- READ THIS MANUAL CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE OR SERVICE THIS CIRCUIT BREAKER.



WARNING

These instructions are intended for use by fully qualified person.

Personal installing, operating or maintaining this device must have thorough knowledge of all applicable local, regional, industry, governmental, ISO and OSHA safety procedures as well as commonly accepted safe working practices and potential hazards involved. Personal working in or around this device must also exhibit common sense and good judgment regarding the potential hazards for themselves and other personal in the area.

ABB accepts no liability for damage to property injury due to failure to comply with the instructions contained in this document.

- Detailed descriptions of standard repair procedures, safety principles and service operations are not include. It is important to note that this document contains warnings and cautions against certain specific service methods that could cause personal injury to service personnel, damage equipment, or render it unsafe. These warnings do not cover all conceivable ways in which service, whether or not recommended by ABB, might be performed, or the possible hazardous consequences of each conceivable way, nor could ABB investigate all such ways. Anyone using service procedures or tools, whether or not recommended by ABB, must satisfy himself thoroughly that neither personal safety, nor equipment safety, will be jeopardized by the service method or tools selected. Should further information be required or specific problems arise that are not sufficiently covered, refer the matter to an ABB service representative.
- This publication is written only for qualified persons and is not intended to be a substitute for adequate training and experience in the safety procedures for this device.
- The purchaser, installer or ultimate user is responsible for ensuring that warning signs are attached and all access doors and operating handles are securely locked when the gear is left unattended, even momentarily.
- Follow your company's safety procedures.
- All information contained in this manual is based on the latest product information available at the time of printing. We reserve the right to make changes at any time and without prior notice.

Optional checking (For RRD and remote control only)

Before installing on the breaker, pushing the STOP button is possible to activate a series of controls to verify the communication between the RRD device and the remote control and to check the correct LED signalling.

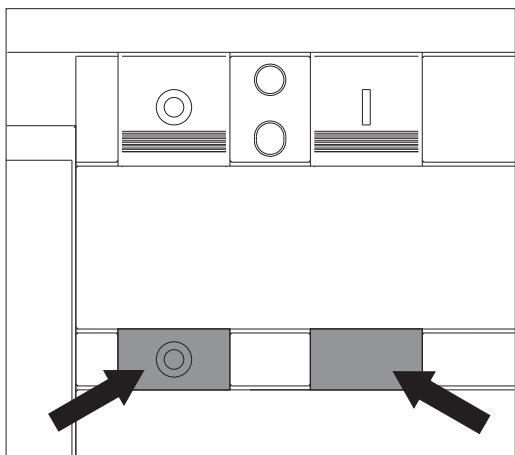
Follow this sequence after connecting in safe conditions the power supply:

BUTTON PUSHED	LEDs' checking		
		LEDs on RRD DEVICE	LEDs on REMOTE CONTROL
STOP+IN	IN	ON	ON
STOP+TEST	TEST	ON	ON
STOP+OUT	OUT	ON	ON
STOP+IN+OUT	READY TO WORK	BLINKING	ON

If all the checks are ok, then disconnect power supply and install the device on the circuit breaker.

A

Emax

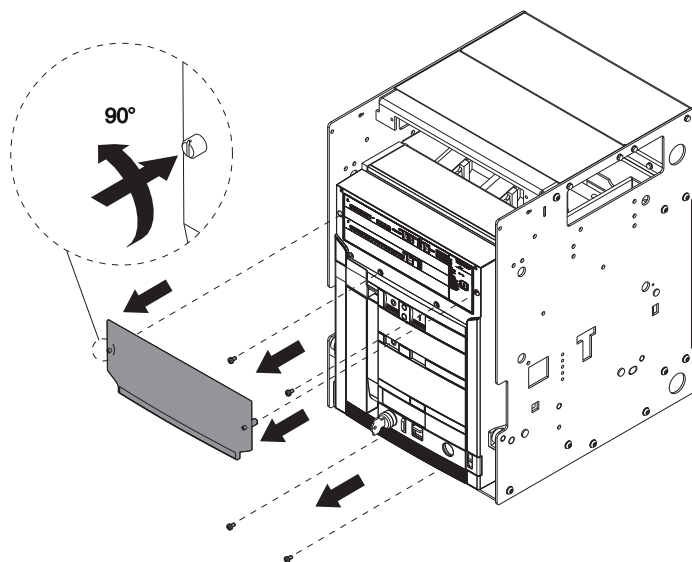


OPEN

WHITE

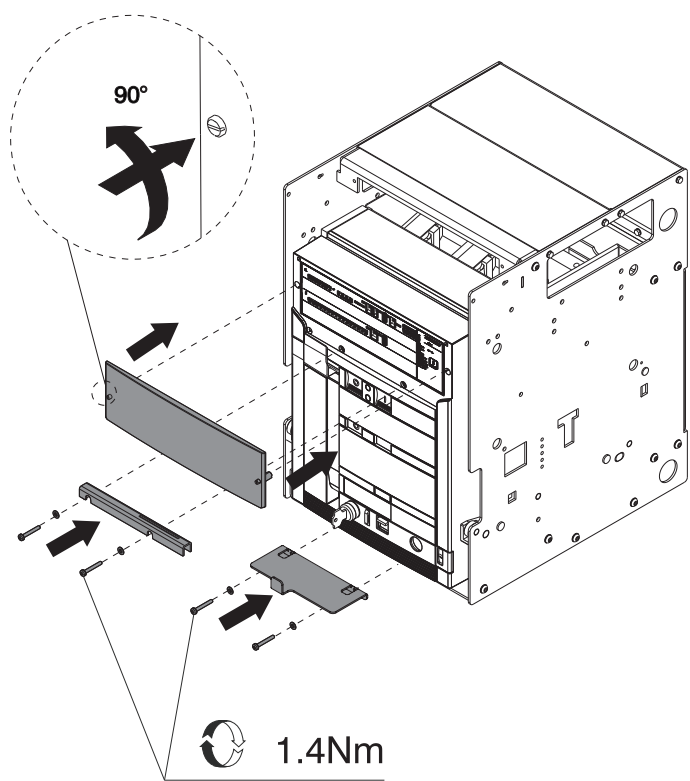
B

RRD Mounting

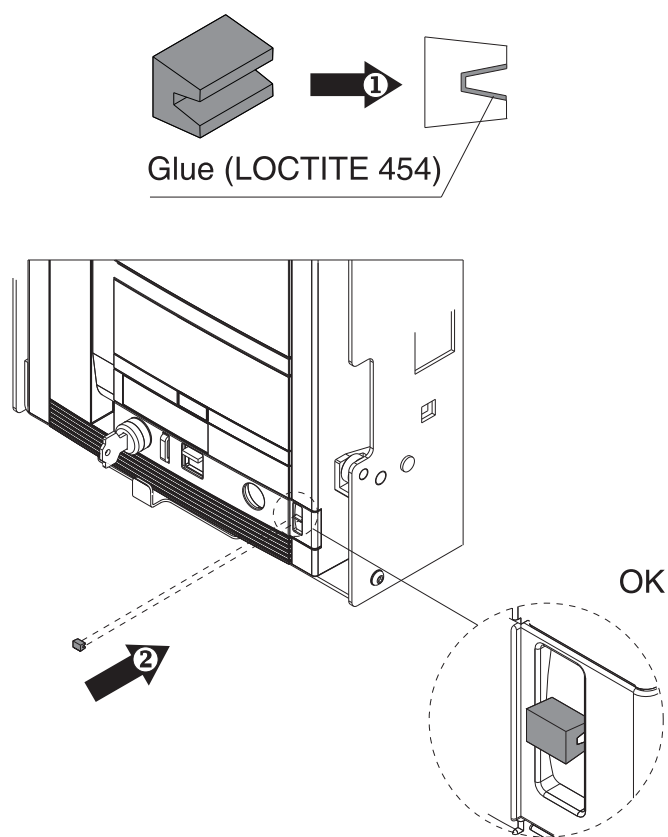


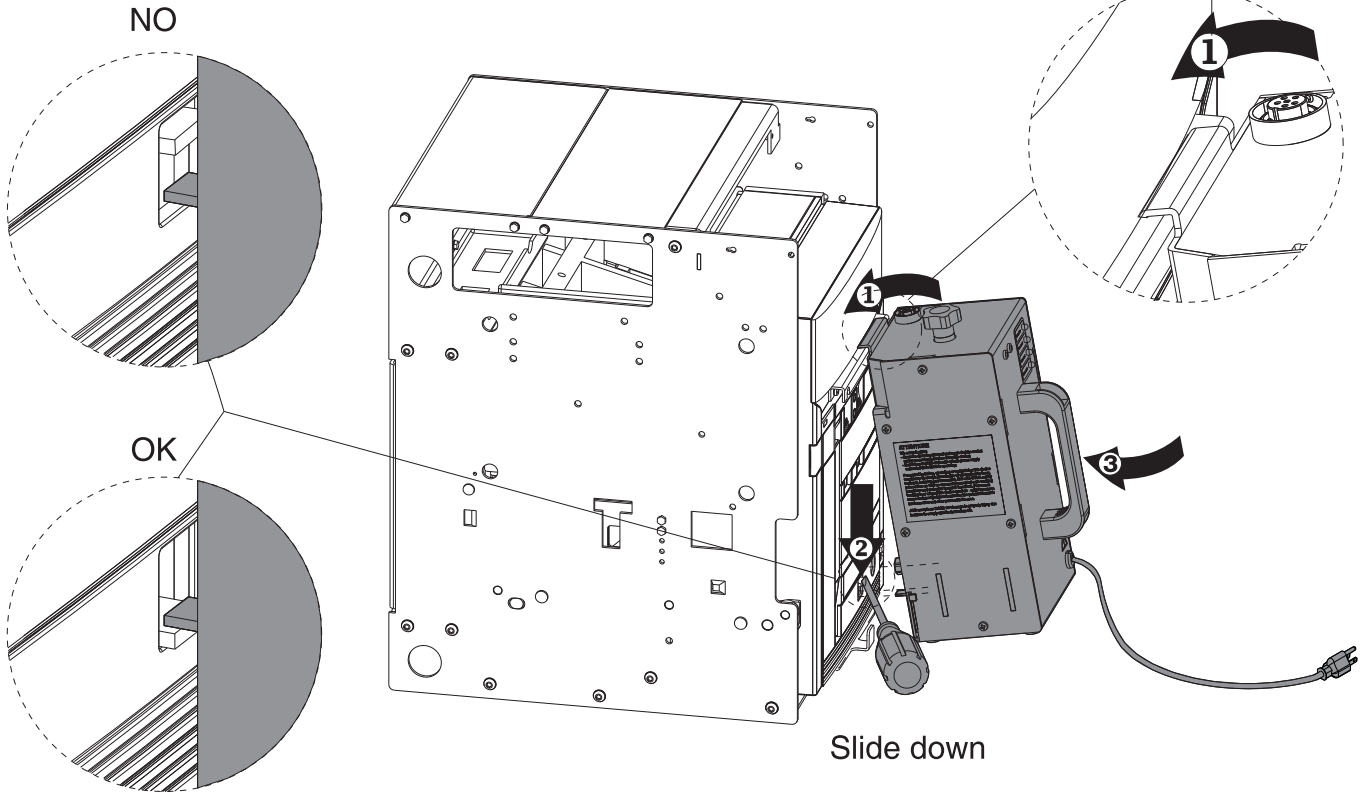
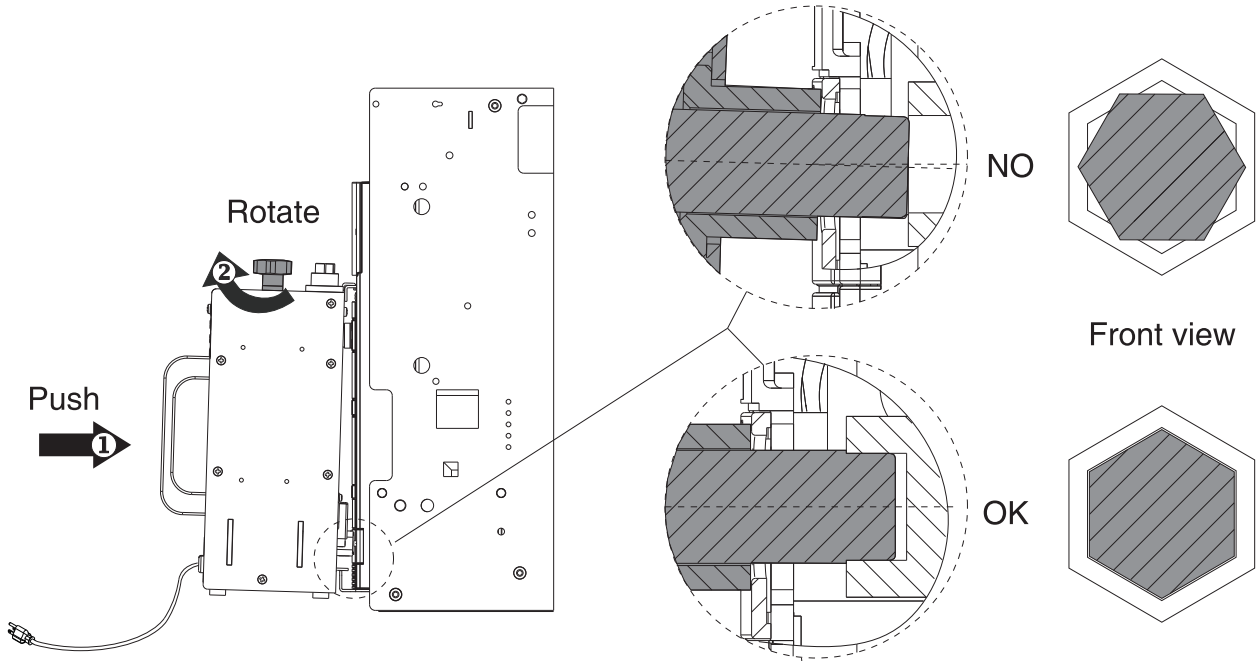
C

RRD



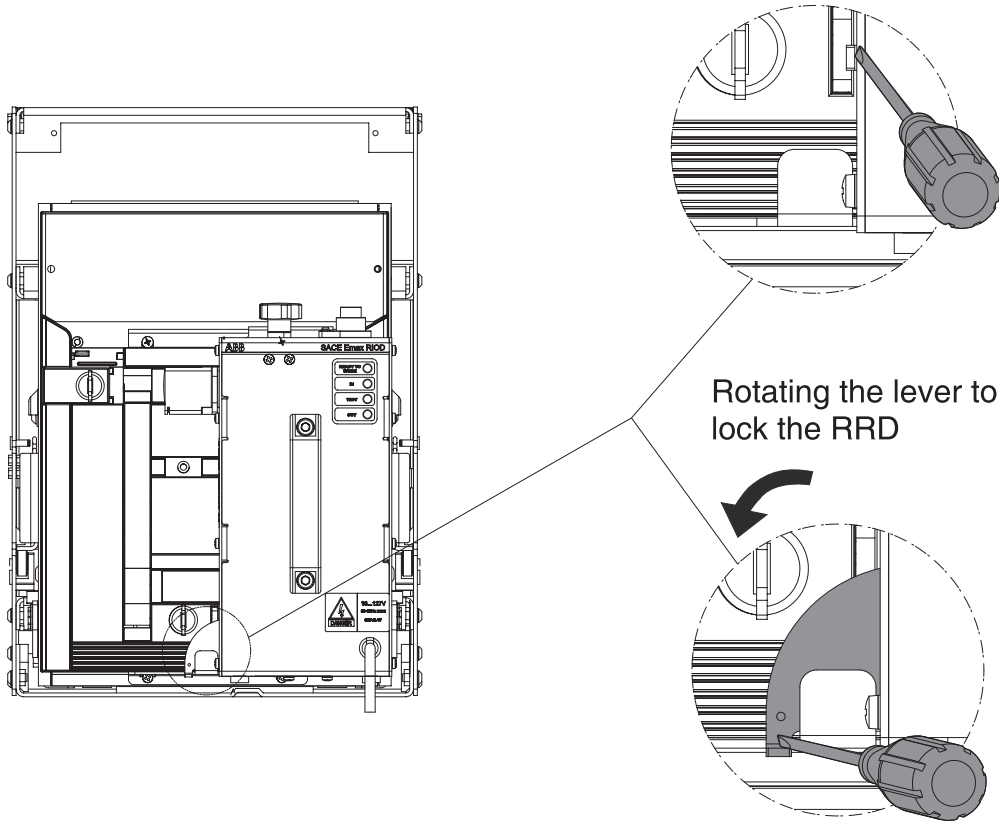
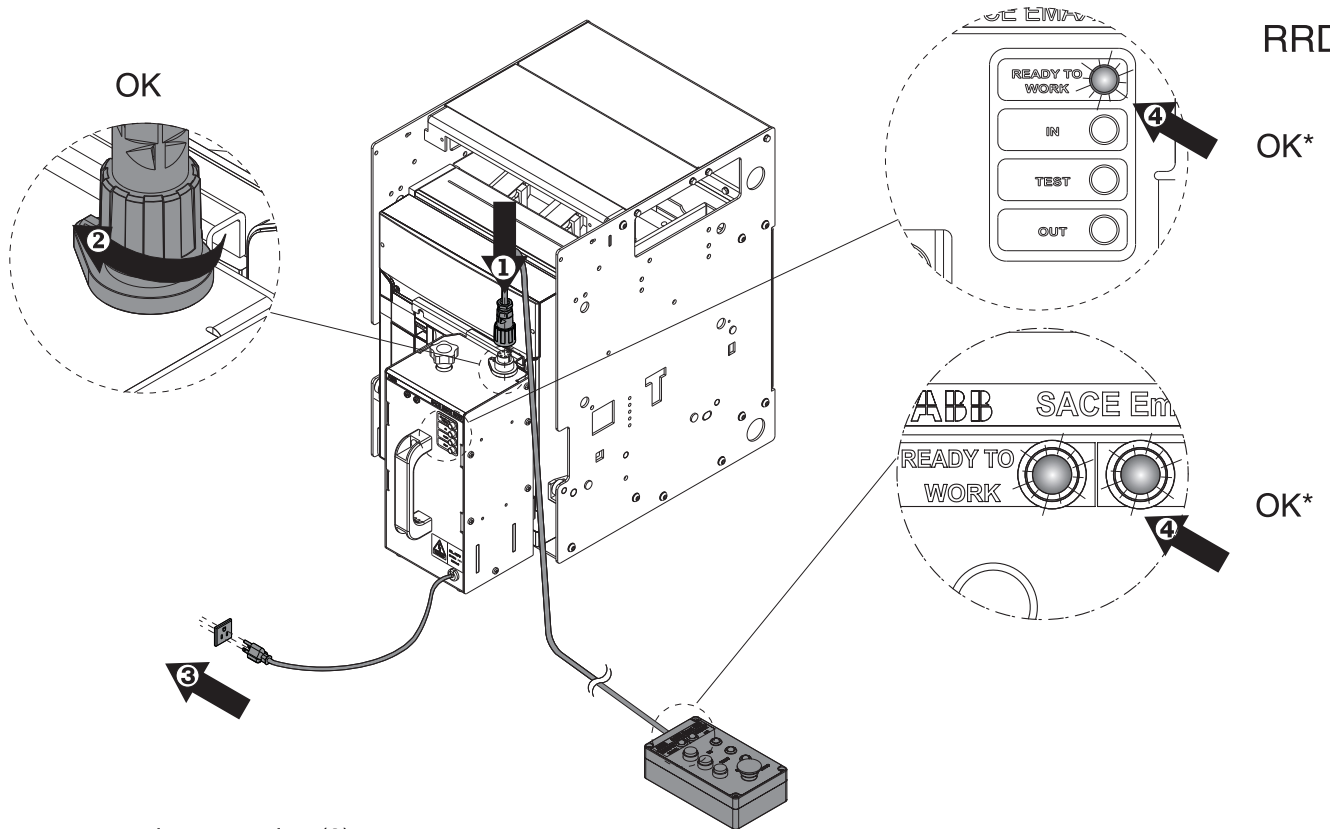
D



E**RRD****F****RRD**

Rotate the grip clockwise on the top (2) to bring the RRD close to the breaker.

Make sure of the proper insertion of the RRD shaft into the slot of the circuit breaker

G**RRD****H****RRD**

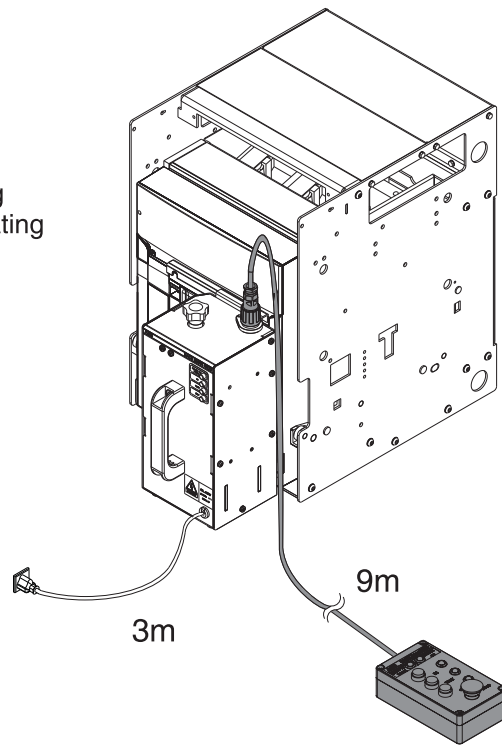
* After power supply connection (3):

If the READY TO WORK LED is ON and FIXED on the RRD device and on the remote control: OK

If the READY TO WORK LED is ON but BLINKING on the RRD device or on the remote control: the RRD isn't correctly mounted. Disconnect power supply and repeat mounting operations as shown in "F"

**Cautions:**

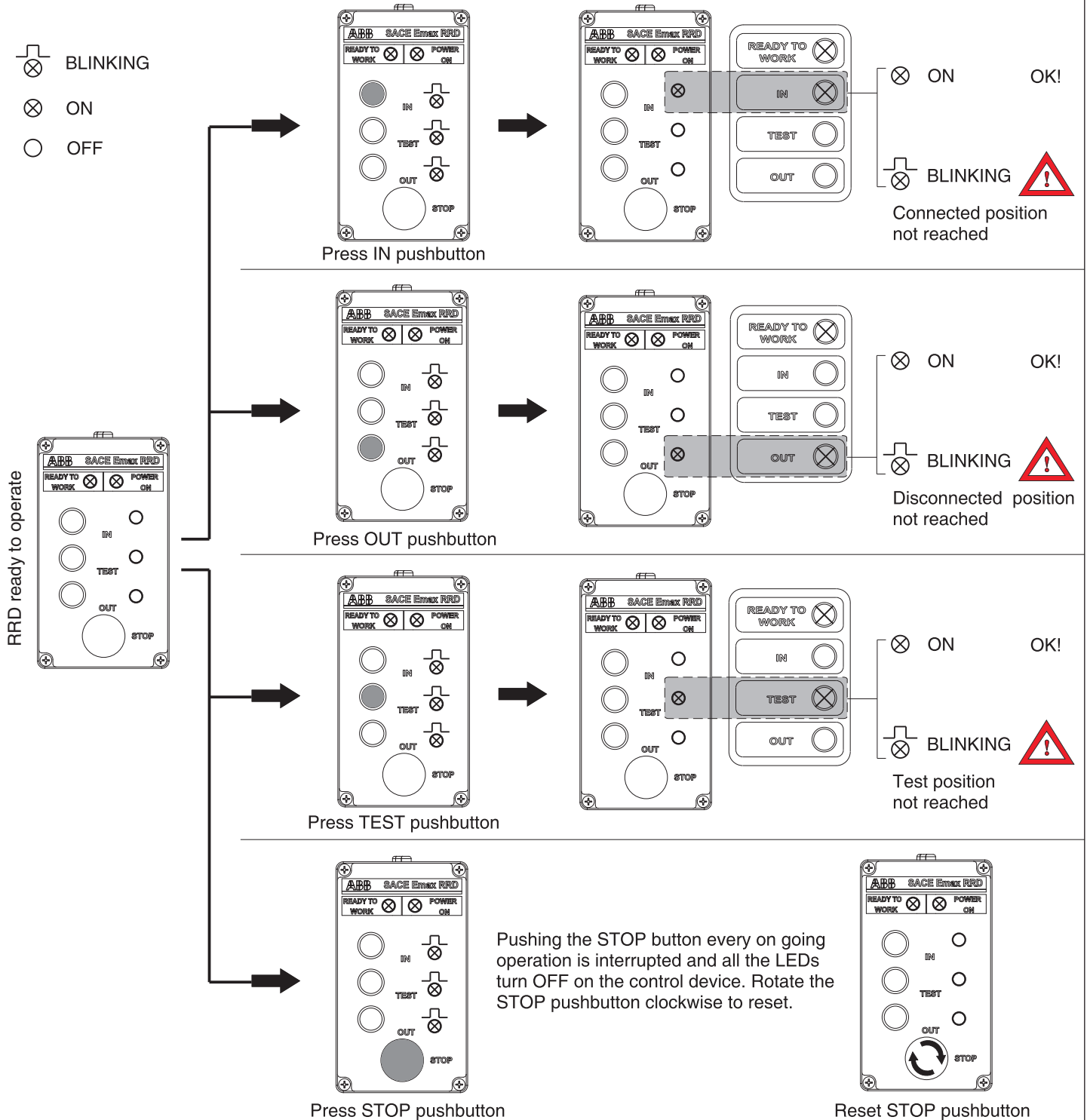
- 1) Don't move or remove the RRD device while it's operating
- 2) Don't remove power supply while the RRD device is operating



J

Instructions

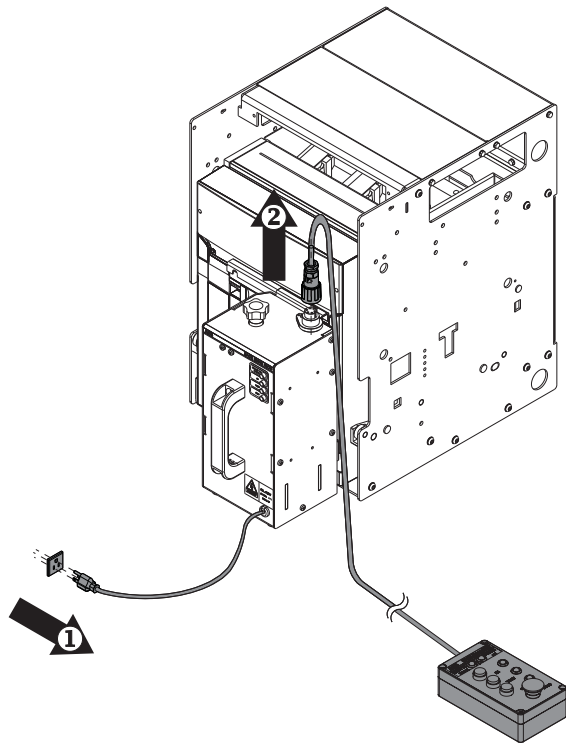
If POWER ON and READY TO WORK LEDs on the remote control are “ON” and fixed, it is possible to operate with the RRD Device.



After reach the IN/TEST/OUT position, the related position LEDs will remain ON and FIXED for about 10s and then turn OFF. For safety reason, during this time, any other operation is disabled.

K

RRD Dismounting

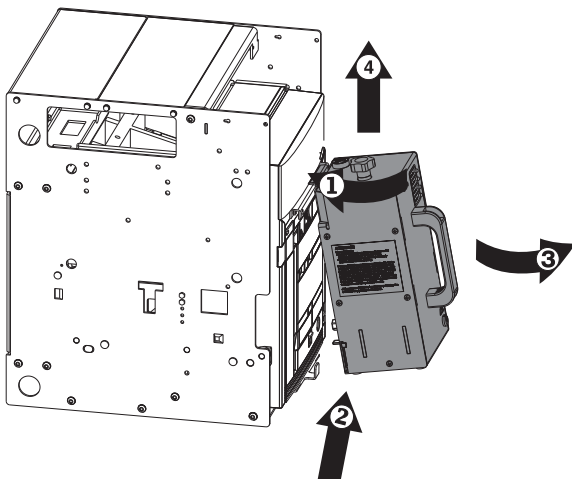


Remove the plug 1 and 2 only with circuit breakers in IN, OUT and TEST position

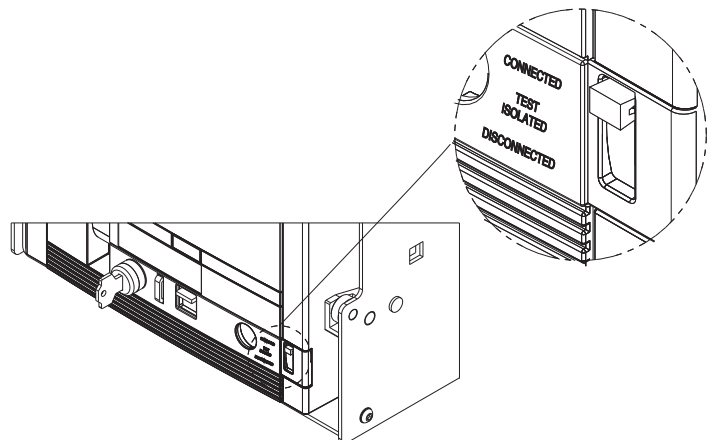
L

RRD

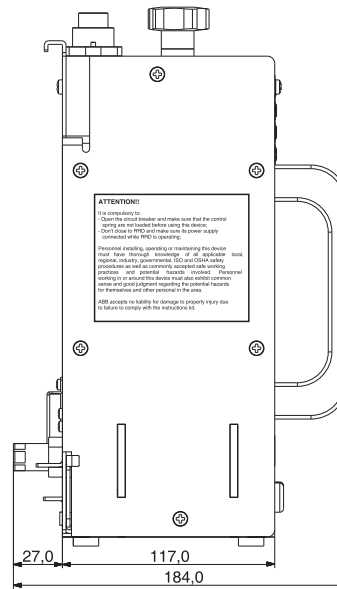
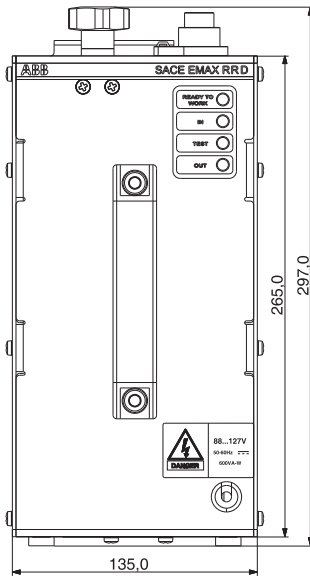
In "IN" position: rotate the grip (1) clockwise, then pull the RRD out (2-3)
In "OUT" position: rotate the grip (1) counter clockwise, then pull the RRD out (2-3)
In "TEST" position: pull the RRD out (2-3) directly



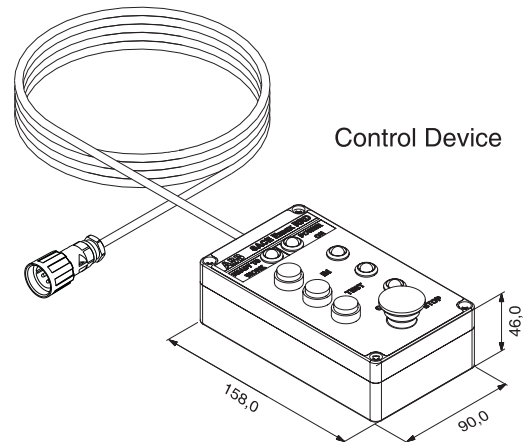
Make sure the lever indicates the right position, then close/open/test the breaker.



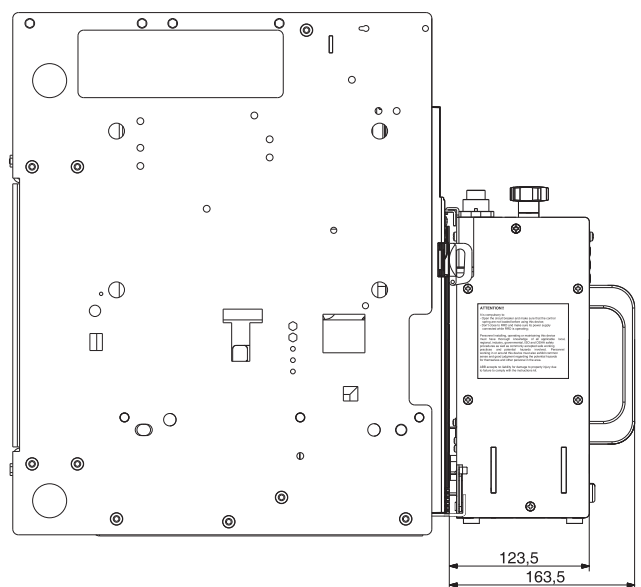
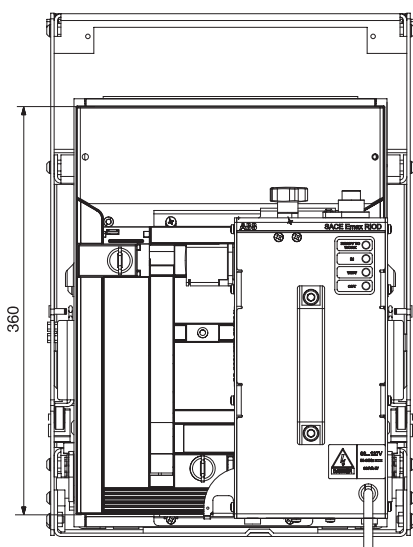
RRD Device



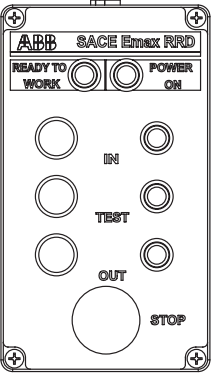
Control Device



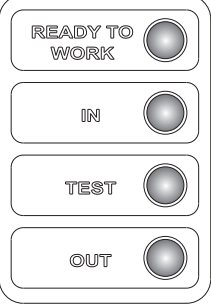
RRD mounted on Emax



REMOTE CONTROL LEDs

STATUS	LED					CB or RRD LEDs SCENARIOS
	POWER ON	READY TO WORK	IN	OUT	TEST	
	OFF					Power supply disconnected
	ON					Power supply connected
		OFF				Emergency button is pushed or power supply disconnected
		ON				RRD is ready to operate
		BLINKING				RRD is not correctly mounted
			FIXED			Connected position reached
			BLINKING			Connected position not reached
				FIXED		Disconnected position reached
				BLINKING		Disconnected position not reached
					FIXED	Test position reached
					BLINKING	Test position not reached
			BLINKING	BLINKING	BLINKING	RRD is operating

RRD DEVICE LEDs

STATUS	LED					CB or RRD LEDs SCENARIOS
		READY TO WORK	IN	OUT	TEST	
		OFF				Power supply disconnected
		ON				RRD is ready to operate
		BLINKING				Power supply connected but RRD is not correctly mounted or emergency button is pushed
			FIXED			Connected position reached
			BLINKING			Connected position not reached
				FIXED		Disconnected position reached
				BLINKING		Disconnected position not reached
					FIXED	Test position reached
					BLINKING	Test position not reached
		BLINKING	BLINKING	BLINKING	RRD is operating	



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