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TS FMDC

9951134	9951145
9951135	9951146
9951136	9951147
9951138	9951148
9951140	9951150
9951142	9951151
9951143	9951153
9951144	9951154

Assembly and operating instructions

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



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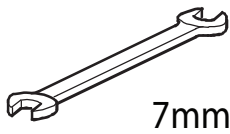
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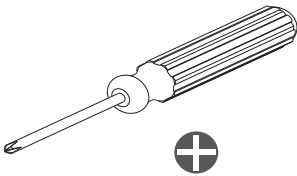


Loose Component supplied with enclosure /Hardware

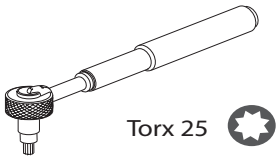
Required Tools (not provided)



WRENCH 7MM

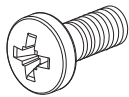


PHILLIPS SCREWDRIVER



TORX DRIVER

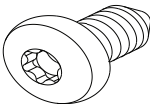
Hardware (provided)



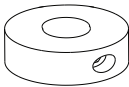
M4 x 12 Bolt



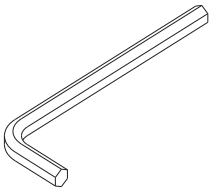
M4 Lock Nut



Screw 5.5 x 13 Pan Torx

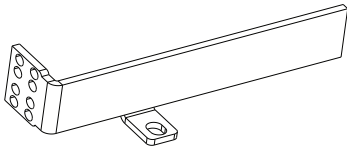


M5 Collet

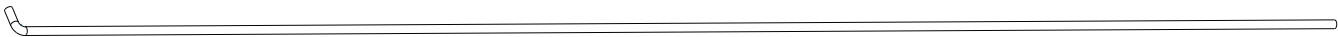


1.5mm ALLEN WRENCH

Loose Components (provided)



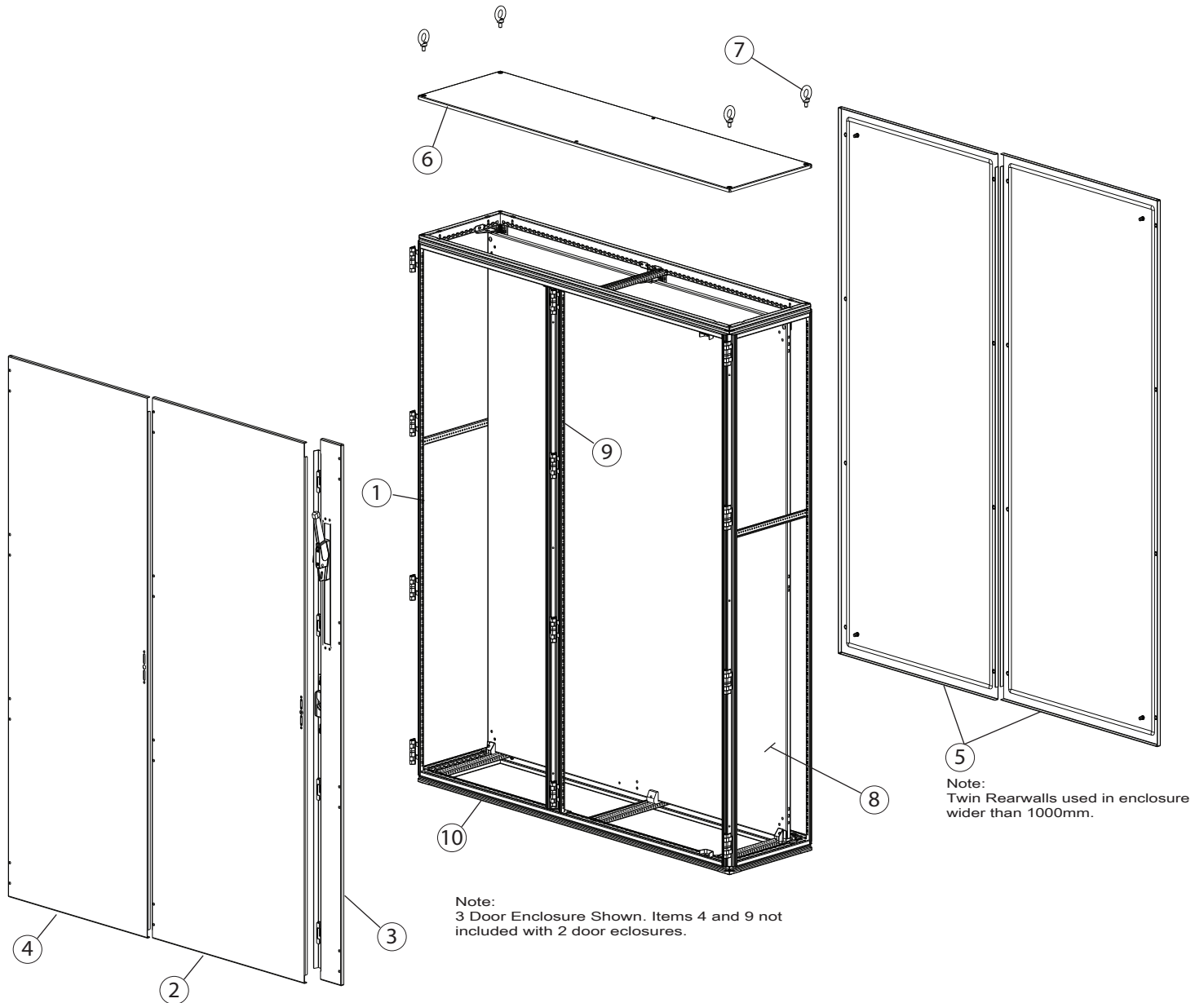
Defeater Lever



Connecting Rod

Enclosure Component Overview

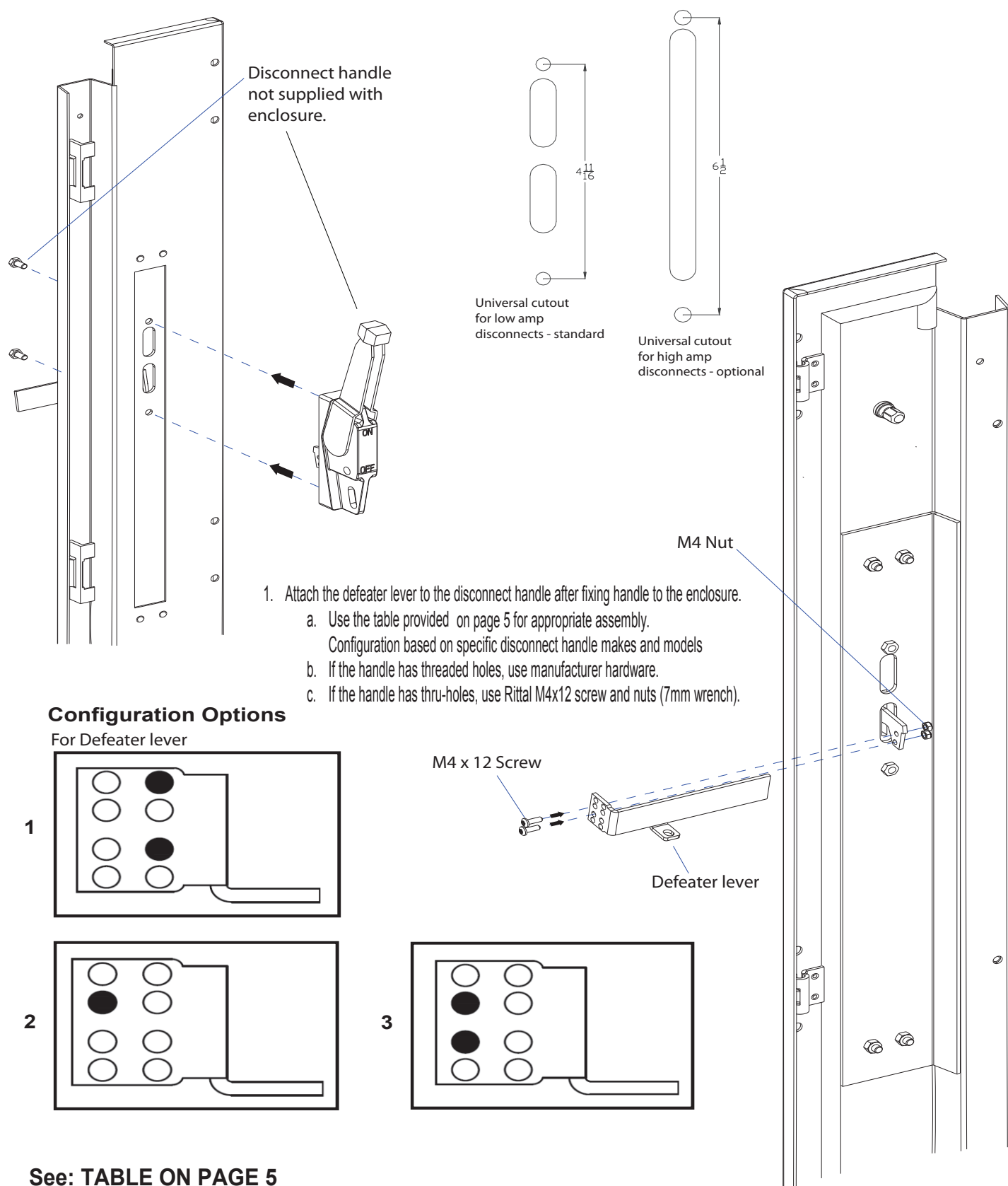
TS FMDC ENCLOSURE / 2 Door / 3 Door



- ① TS Frame
- ② Master Door
- ③ FMDC Door
- ④ Slave Door
- ⑤ Twin Rearwalls

- ⑥ Roof
- ⑦ Eye bolt
- ⑧ Mounting Panel
- ⑨ Front Mullion
- ⑩ Baseframe With Cable Plates

Installation of disconnect handle / defeater lever



See: TABLE ON PAGE 5

Disconnect handle configuration chart

4-11/16" Cutout

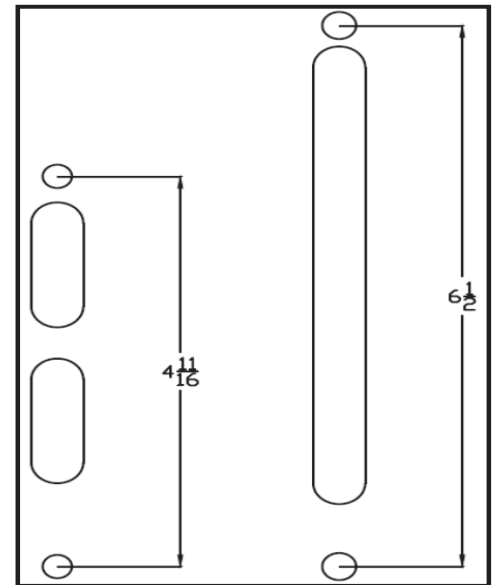
	Handle/Operator	Configuration
Allen Bradley	140G ($\leq 400A$)	1*
	1494C ($\leq 200A$)	1*
	1494F M1/S1/P1	1*
	1494V ($\leq 200A$)	1*
	194R	1*
ABB	DSFHN-HS	3*
	OHF1C	2
Eaton	C361	3*
	C371	3*
	Flex Shaft CH	3*
GE	SCH1 / SCH2	3
	SCOM	3
	SDOM	3
	STDA	3
	TDOM	3
		3
Siemens	FDH10 / FDH20	2
	FHOH	2
	Max Flex	2
	MFHM3R / MFHM4X	2
	VBHM1	2
		2
Square D	9422 Type A1/A3/A9	3
	9422 Type A2/A4/A10	3

* Use hardware supplied by disconnect handle manufacturer.

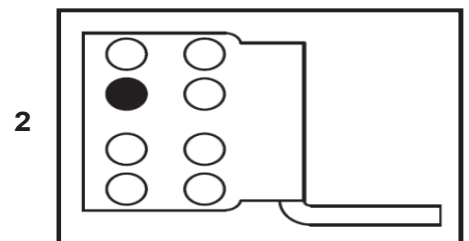
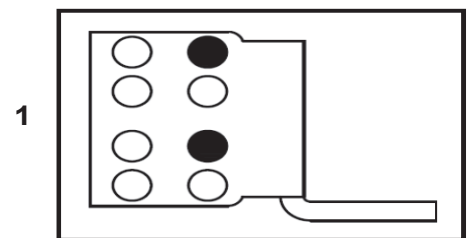
6-1/2" Cutout

	Handle/Operator	Configuration
Allen Bradley	140G (600 - 1200A)	1
	1494C (400 - 600A)	1
	1494F M2/S2	1
	1494V (400 - 600A)	1
ABB	K7FCH	2
Siemens	FHOHN	2
	MFHP3R / MFHP4X	2
	MFHP3R / MFHP4X	2
	VBH2	2
		2

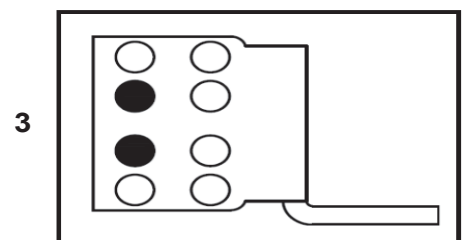
NOTE:
DOOR COMPONENTS SHOWN ON PAGE 4.



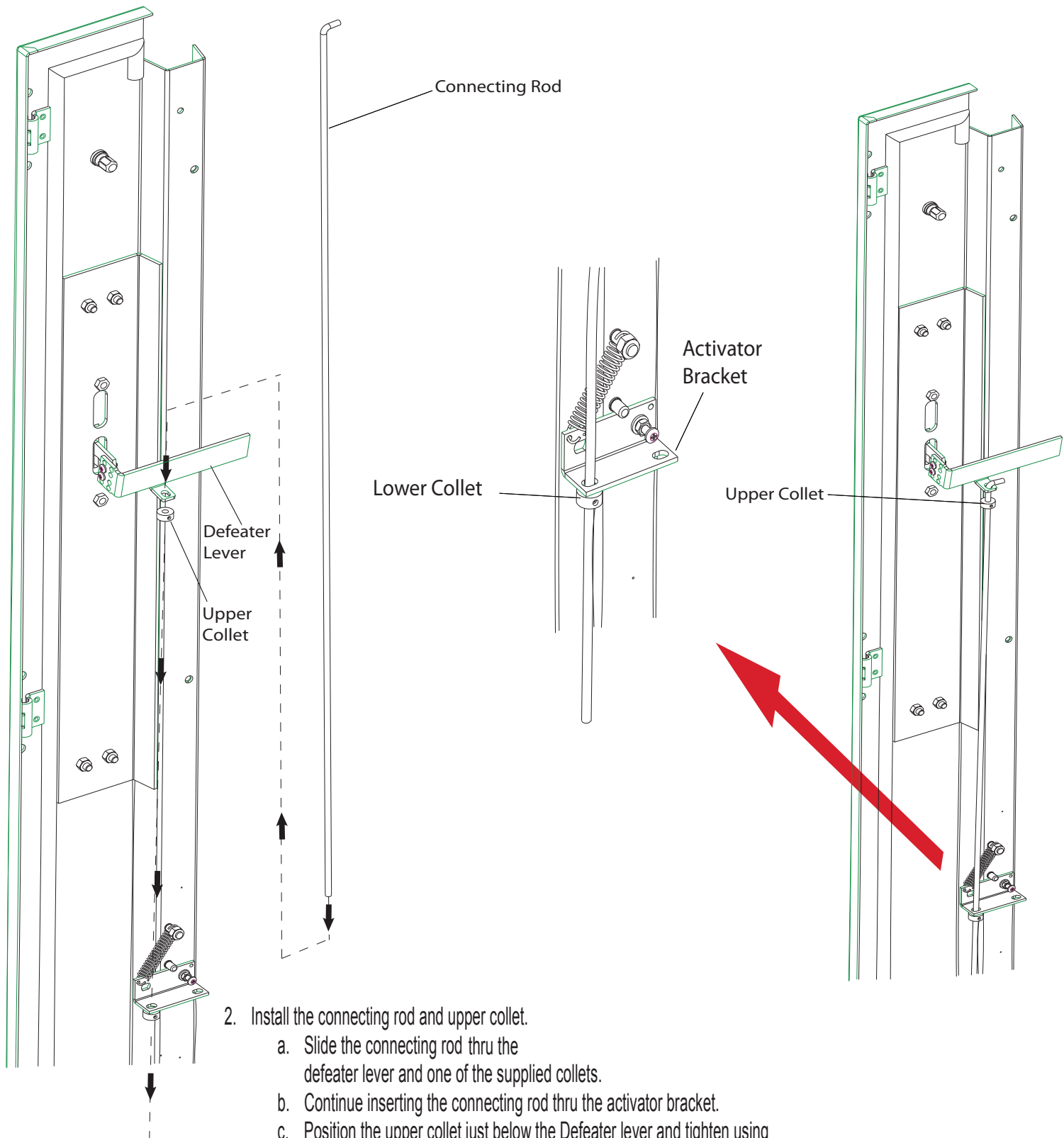
Configuration Options



Note, for configuration #2 an extra bolt/nut should be used beneath the single hole to prevent accidental rotation.



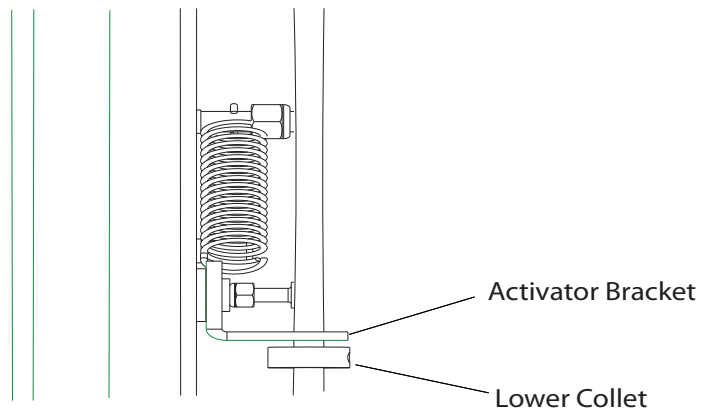
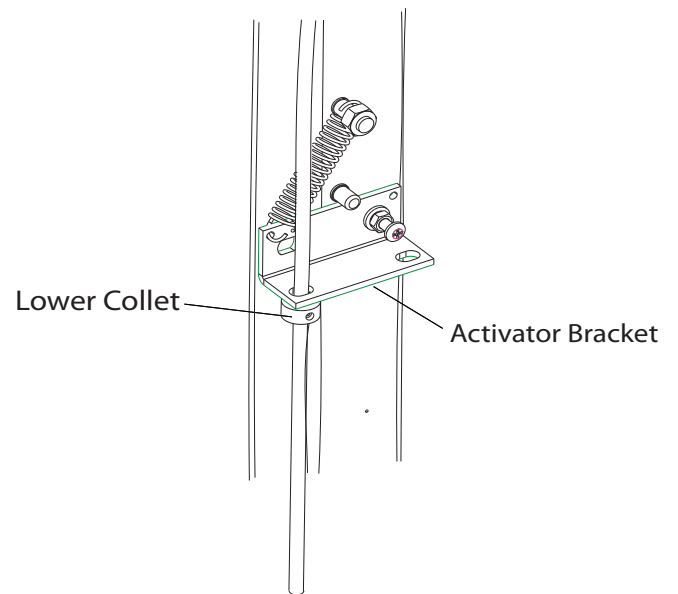
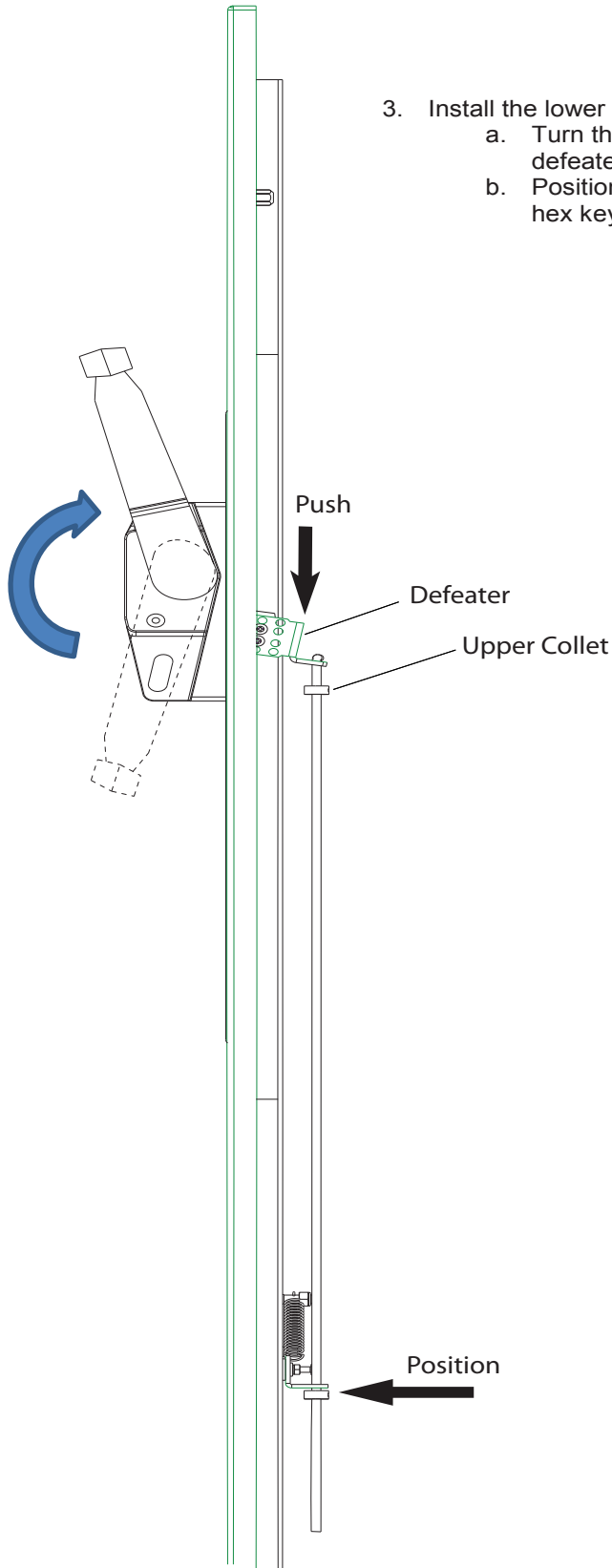
Installing the connecting rod and upper collet



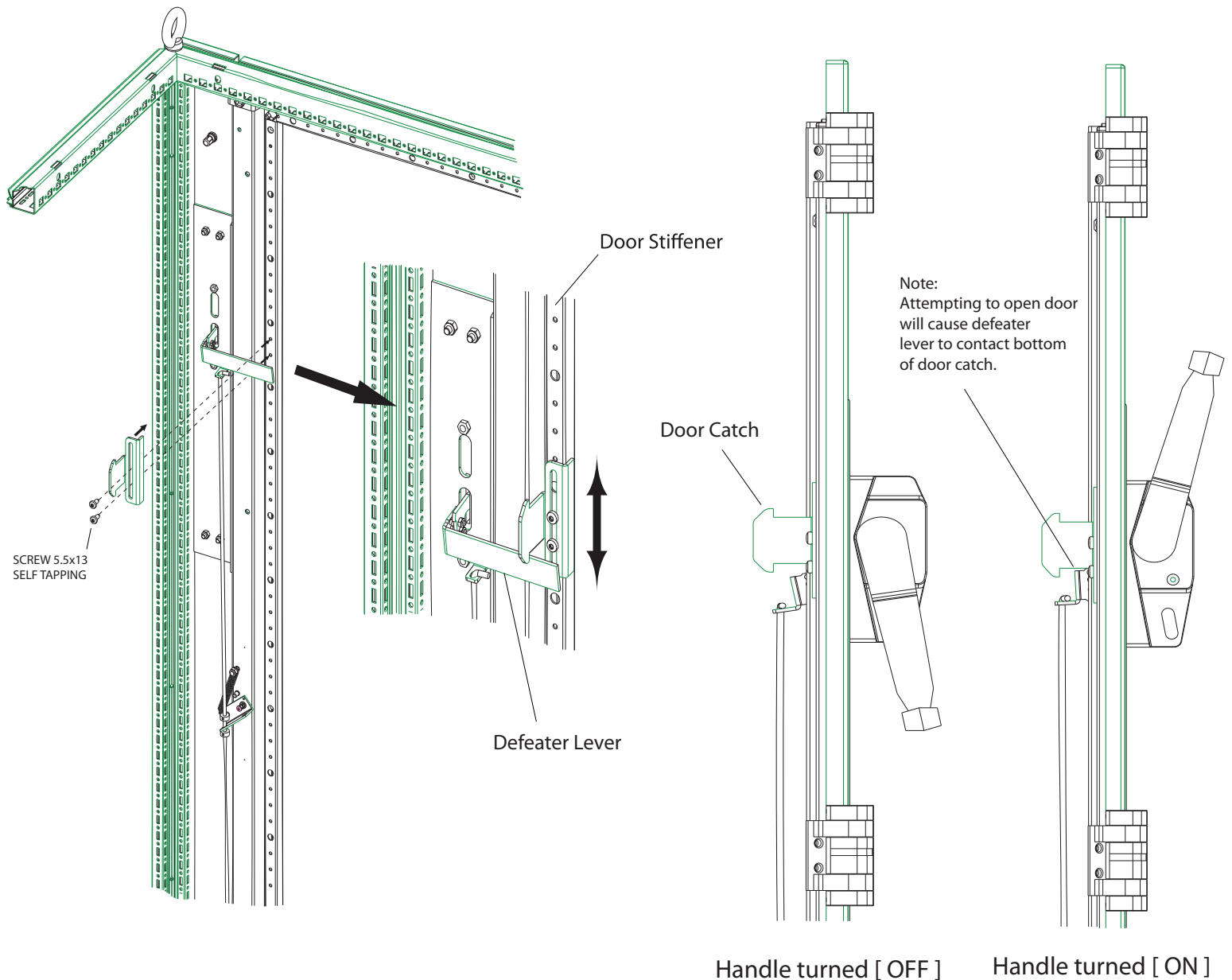
2. Install the connecting rod and upper collet.
 - a. Slide the connecting rod thru the defeater lever and one of the supplied collets.
 - b. Continue inserting the connecting rod thru the activator bracket.
 - c. Position the upper collet just below the Defeater lever and tighten using a 1.5mm hex key.

Installing the lower collet

3. Install the lower collet.
 - a. Turn the disconnect handle to the 'ON' position by pushing down on the defeater lever.
 - b. Position the lower collet just below the activator bracket and tighten using a 1.5mm hex key.



Adjusting the door catch



4. Adjust the door catch.

- a. The FMDC door should be closed and fully latched.
- b. Assuming that there is access from the side of the enclosure for installation, the master door should be closed but NOT latched.
- c. With the disconnect handle turned 'ON', position and tighten the door catch on the master door stiffener above the defeater lever such that it is effectively locking the main door and preventing it from opening.
- d. Turning the handle 'OFF' should lower the defeater lever and allow the door to open.

Testing and troubleshooting:

1. Test the handle-lockrod engagement (Door open).
 - a. The FMDC Door should be closed and fully latched.
 - b. The disconnect handle should be 'OFF'.
 - c. The Master Door should be open.
 - d. Attempt to turn the disconnect handle to the 'ON' position.
 - i. It should not allow this to happen.
 - e. If the handle is capable of turning on, the lower collet is positioned too high.
 - i. Position the lower collet slightly lower on the connecting rod and retest.
2. Test the handle-lockrod engagement (Door closed).
 - a. The FMDC Door should be closed and fully latched.
 - b. The disconnect handle should be 'OFF'.
 - c. The Master Door should be closed and fully latched.
 - d. Attempt to turn the disconnect handle to the 'ON' position.
 - i. It should allow this to happen.
 - e. If the handle is incapable of turning on, the lower collet is positioned too low.
 - i. Position the lower collet slightly higher on the connecting rod and retest.
After retest please go back to step 1.
3. Test the door lockout engagement. (After passing tests #1 and #2)
 - a. The FMDC Door should be closed and fully latched.
 - b. The disconnect handle should be 'OFF'.
 - c. The Master Door should be closed and fully latched.
 - d. Turn the disconnect handle to the 'ON' position.
 - e. Attempt to open the Master Door.
 - i. The defeater lever should engage the main door catch and lock the door.
 - f. If the main door opens the main door catch is positioned too high.
 - i. Position the main door catch lower on the main door stiffener and retest.

The image shows a sheet of graph paper. At the top, there is a header section with a light blue background and a thin black border. This section is labeled 'Notes' in a bold, black, sans-serif font. Below the header, the rest of the page is covered by a uniform grid of small squares, typical of graph paper. The grid lines are thin and black, creating a consistent pattern across the entire page.

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