

# ReliaGear™ neXT Panelboard


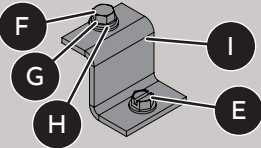
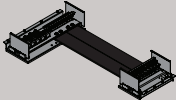
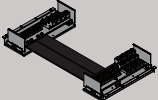
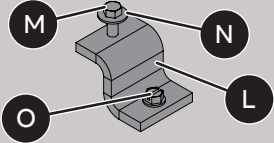
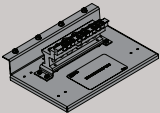
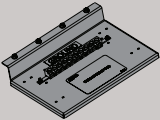
## Grounds and neutral assembly


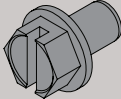
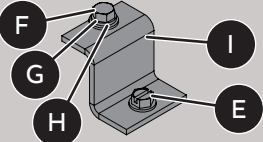
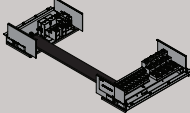
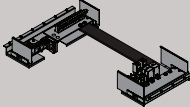
### WARNING

Danger of electrical shock or injury. Turn OFF power ahead of the panel board or switchboard before working inside the equipment or removing any component. Equipment is to be installed and maintained by properly trained and qualified personnel only.



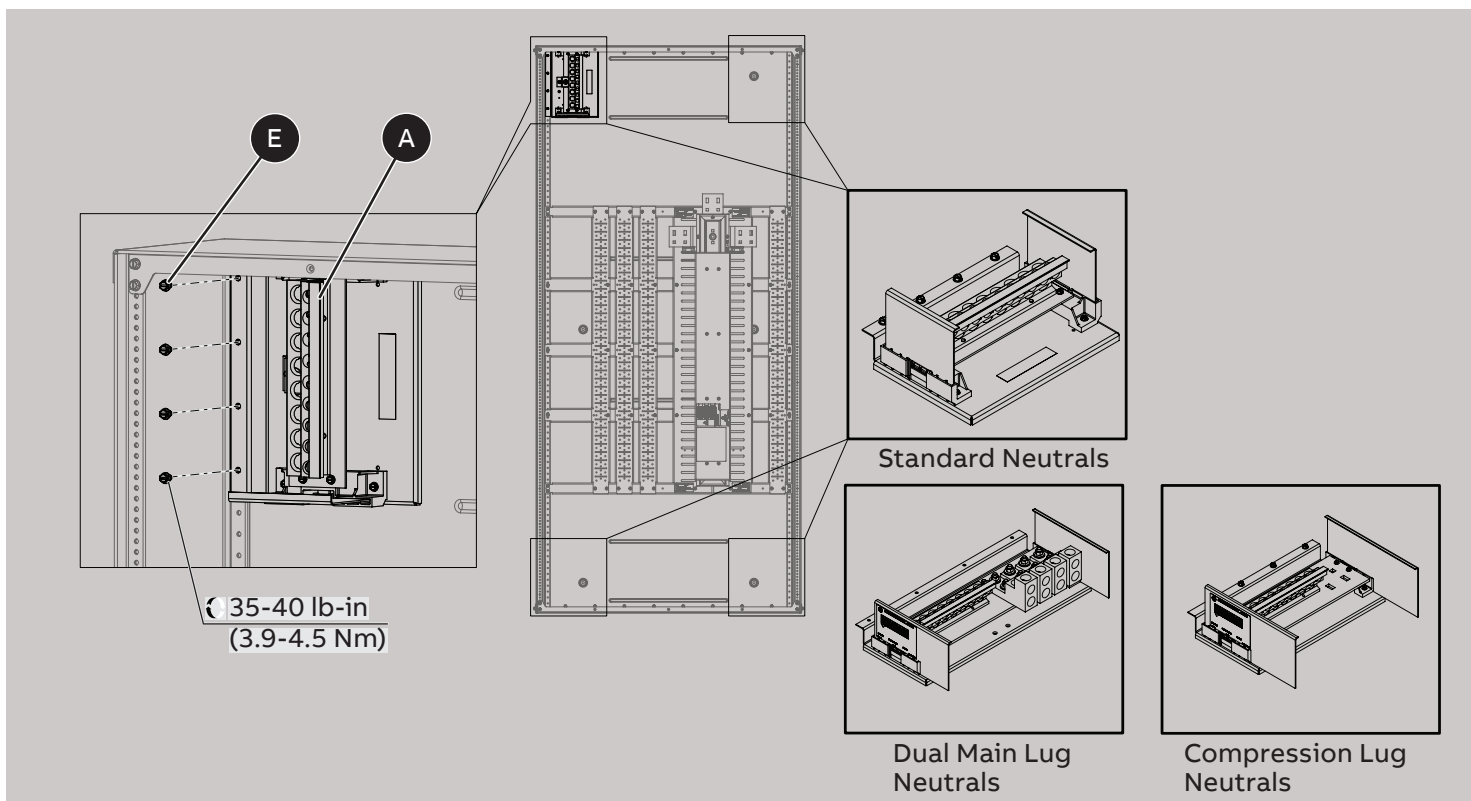
		STANDARD NEUTRAL	DUAL MAIN LUGS NEUTRAL	COMPRESSION LUGS NEUTRAL	GROUND FAULT NEUTRAL	200% NEUTRALS	GROUND LUG 47 WIRE	GROUND LUG 10 WIRE
A		1X						
B			1X					
C				1X				
D					1X			
E		4X	4X	4X	4X	4X	4X	4X

		STANDARD NEUTRAL	DUAL MAIN LUGS NEUTRAL	COMPRESSION LUGS NEUTRAL	GROUND FAULT NEUTRAL	200% NEUTRALS	GROUND LUG 47 WIRE	GROUND LUG 10 WIRE
		1X	1X	1X	1X			
J						1X		
K						1X		
						1X		
P							1X	
Q								1X

		GROUND FAULT ON FEEDERS - STANDARD NEUTRAL	GROUND FAULT ON FEEDERS - GROUND FAULT MAIN NEUTRAL
E		4X	4X
		1X	1X
U		1X	
V			1X

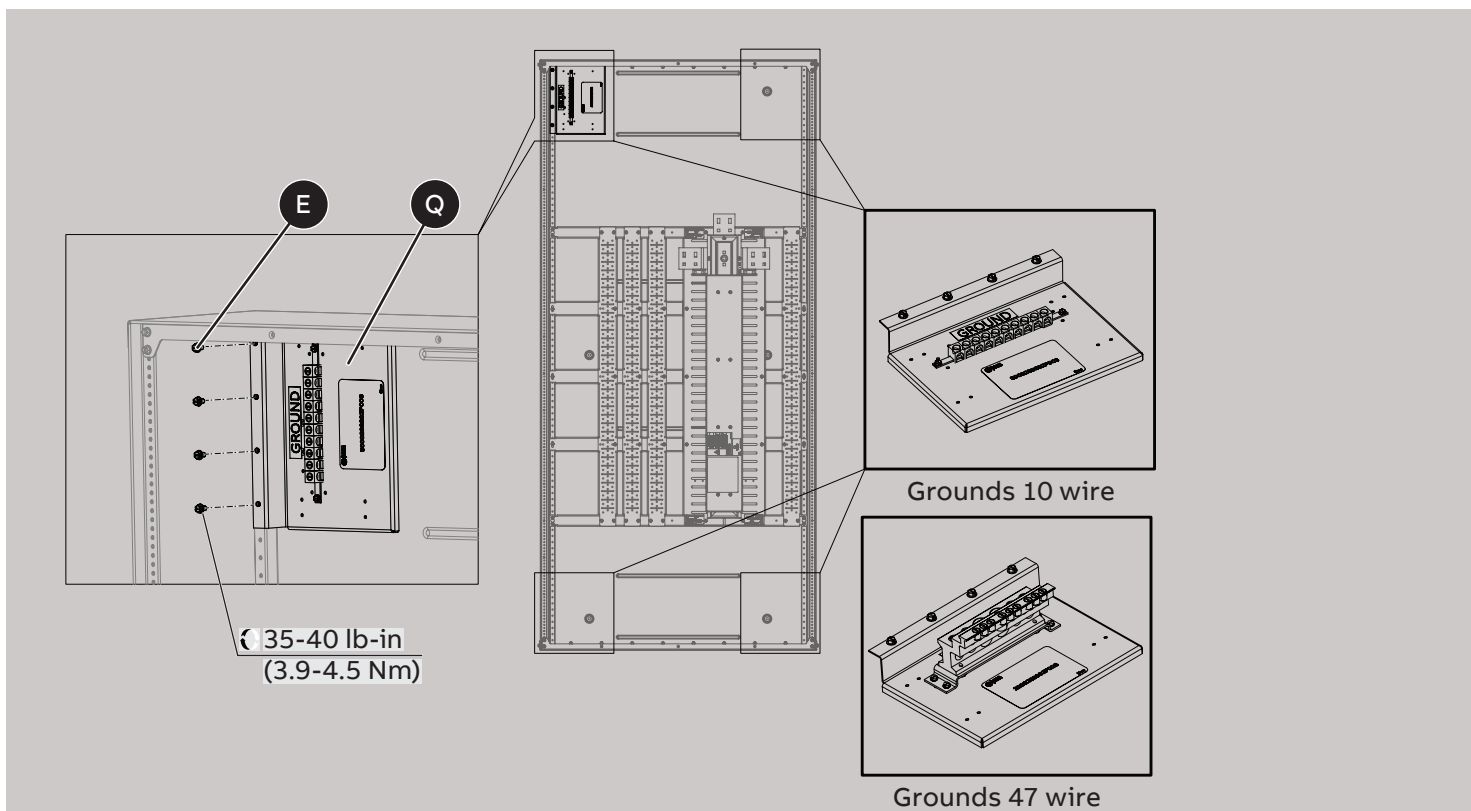
1

## Neutrals Assembly



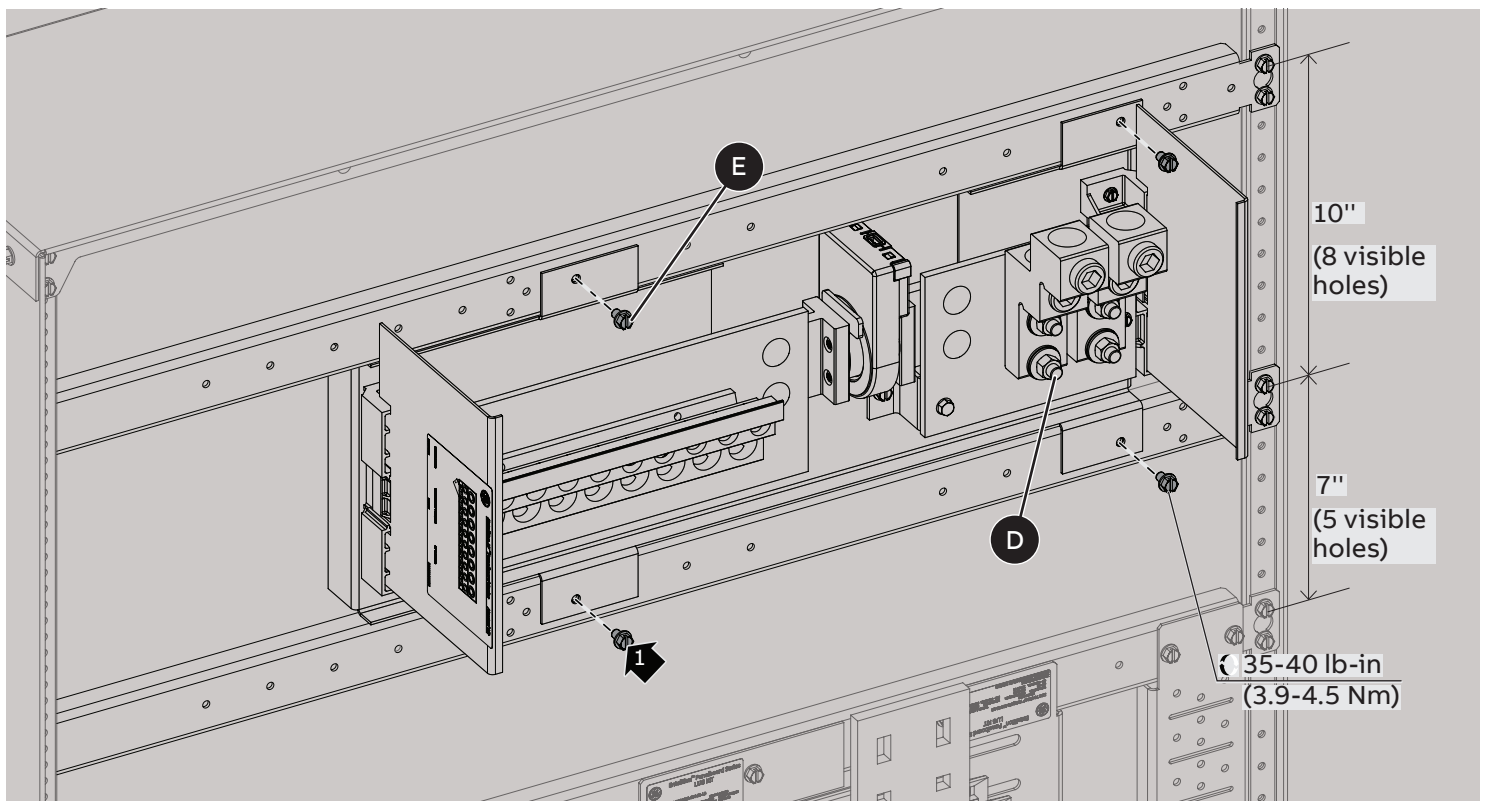
2

## Grounds assembly

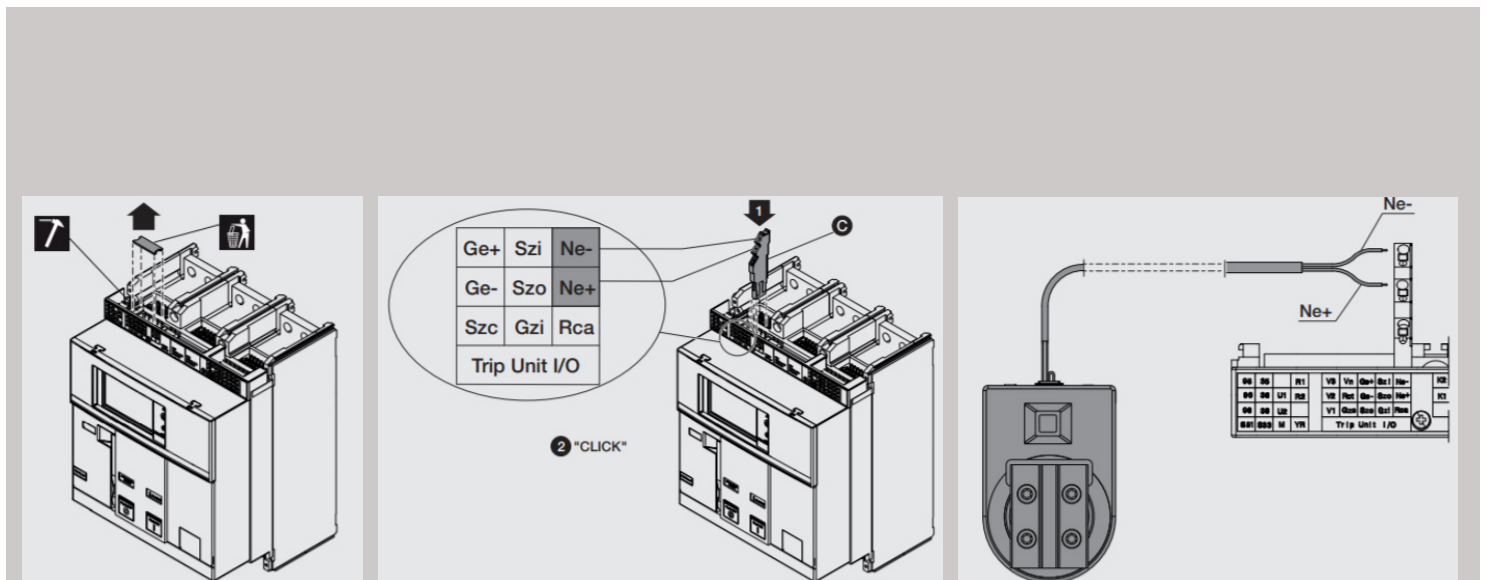




# Vertical main Ground fault, non-Ground fault neutrals (XT5 & XT7)



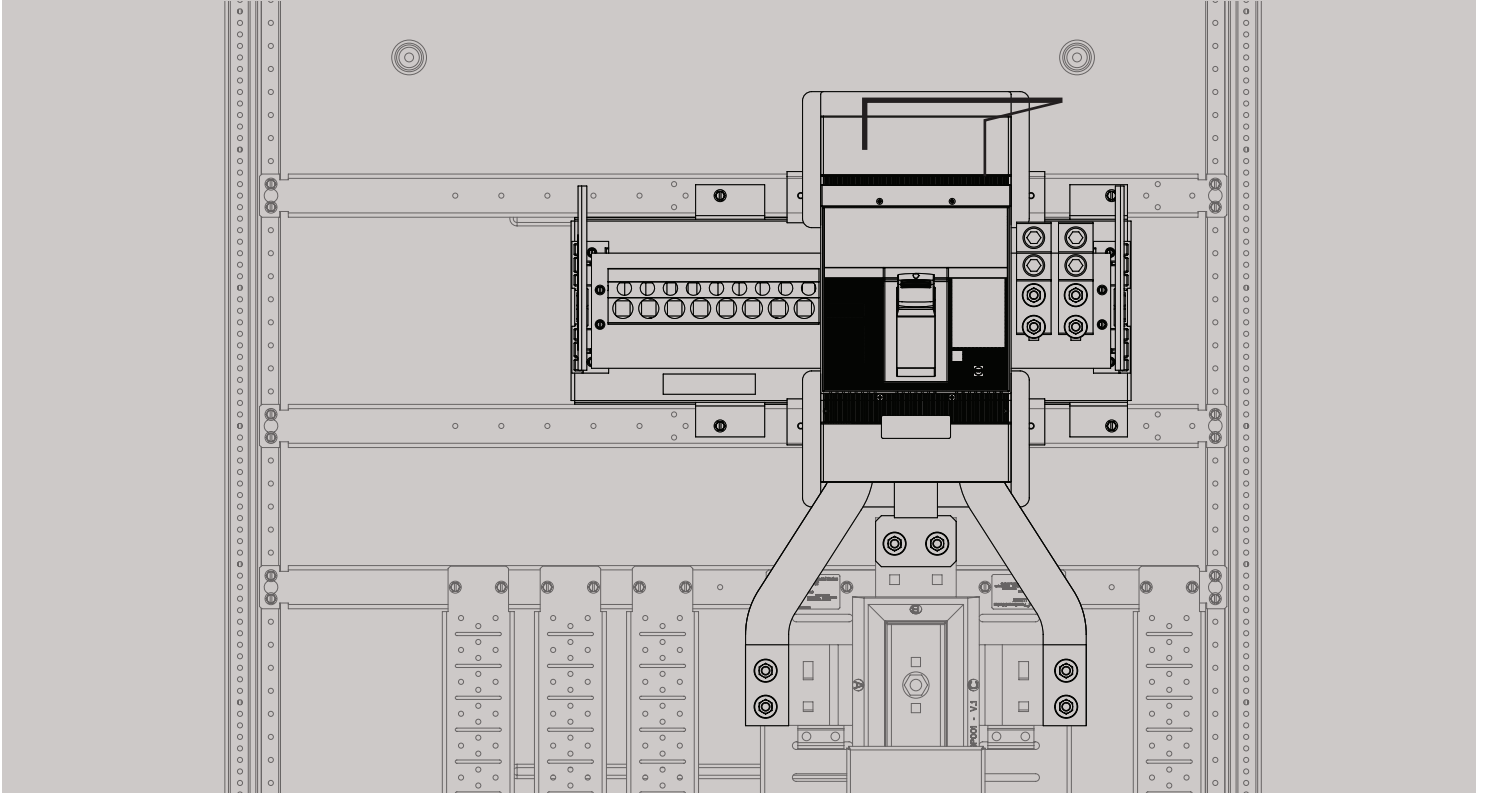
## Breaker to Neutral CT Connection



Refer to documents below for additional information  
 1SDH001400R0506 for XT7 CT  
 1SDH002011A1602 for XT5 CT

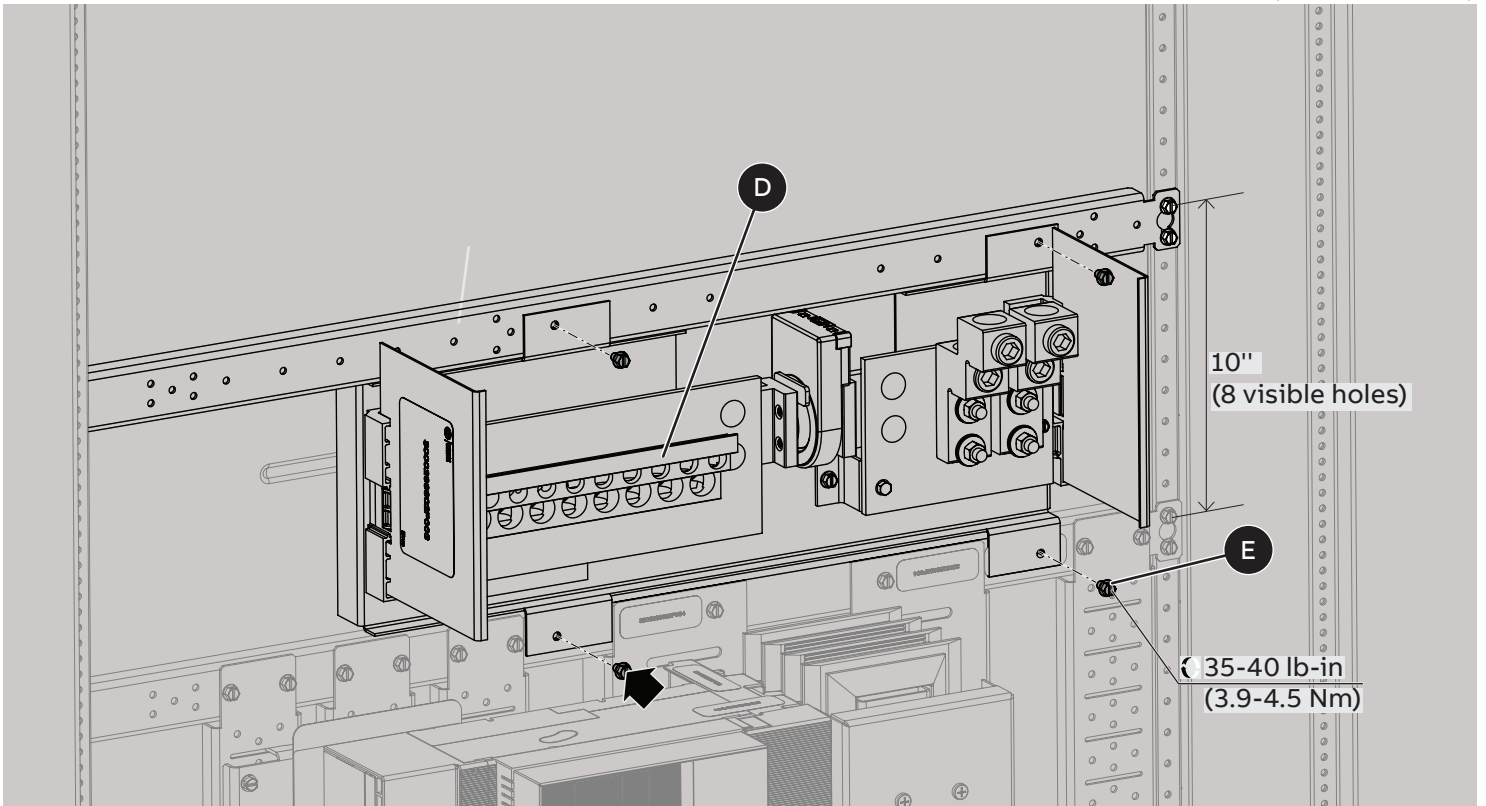
5

## Vertical main - Ground fault neutrals (wiring connection)

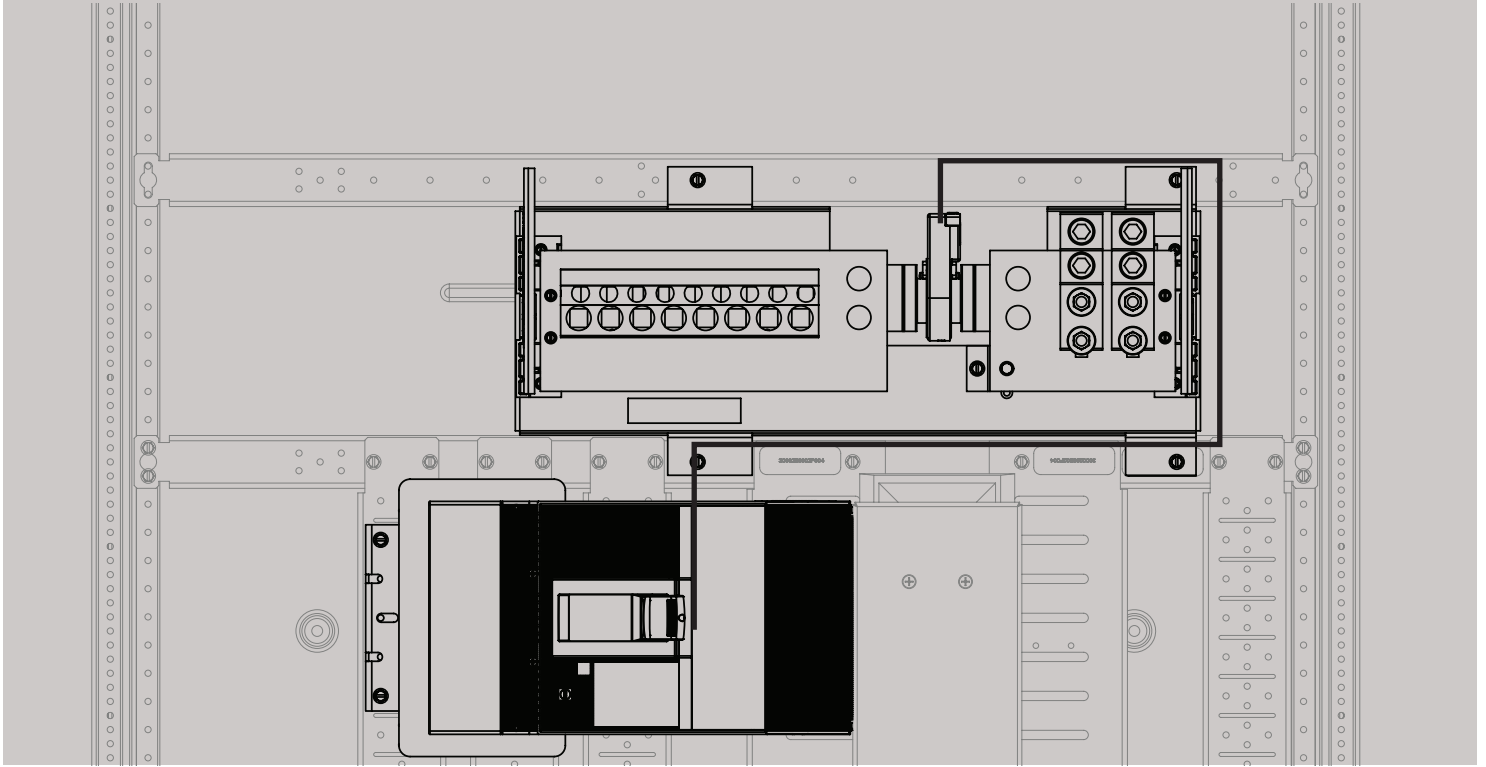


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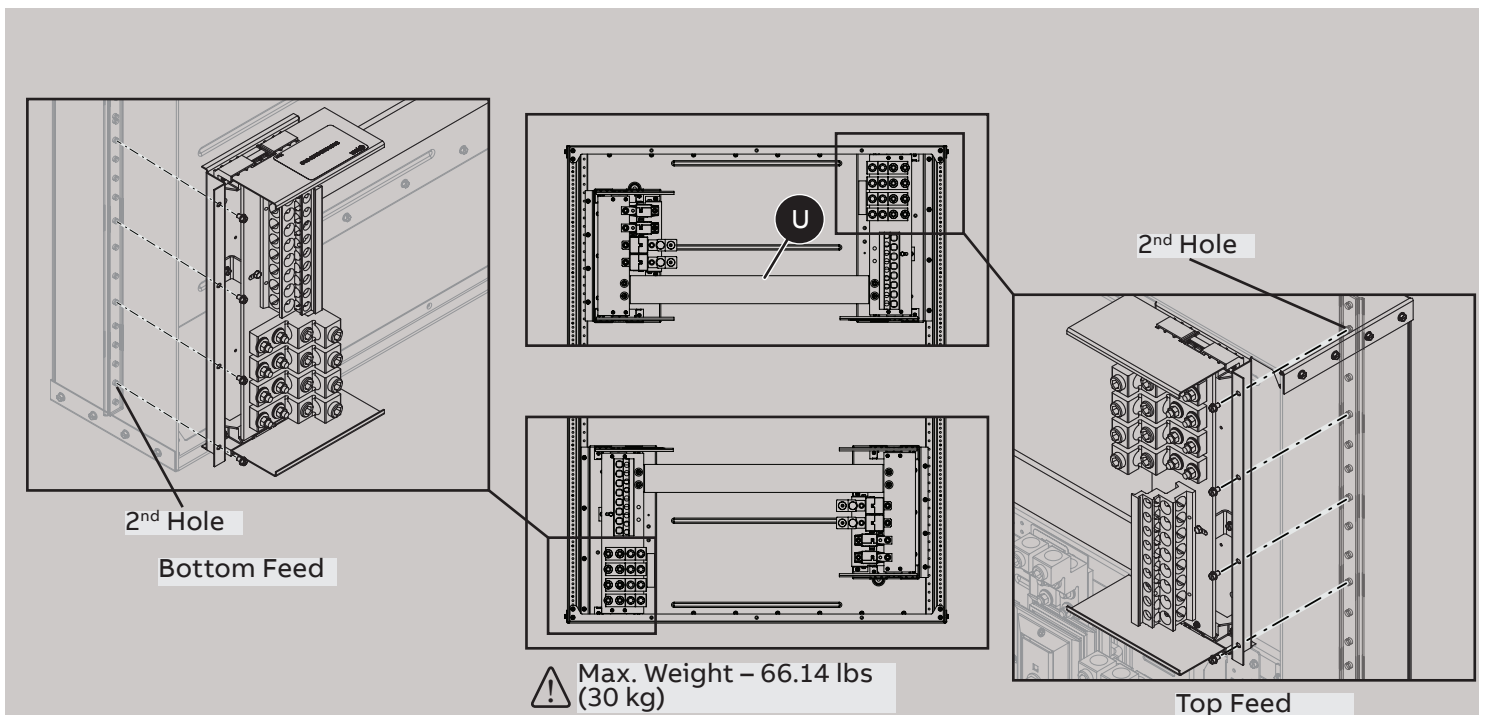
## Horizontal Main Ground fault Neutrals (XT4, XT5 & XT7)



# Ground Fault Neutrals (wiring connection – Horizontal Main)

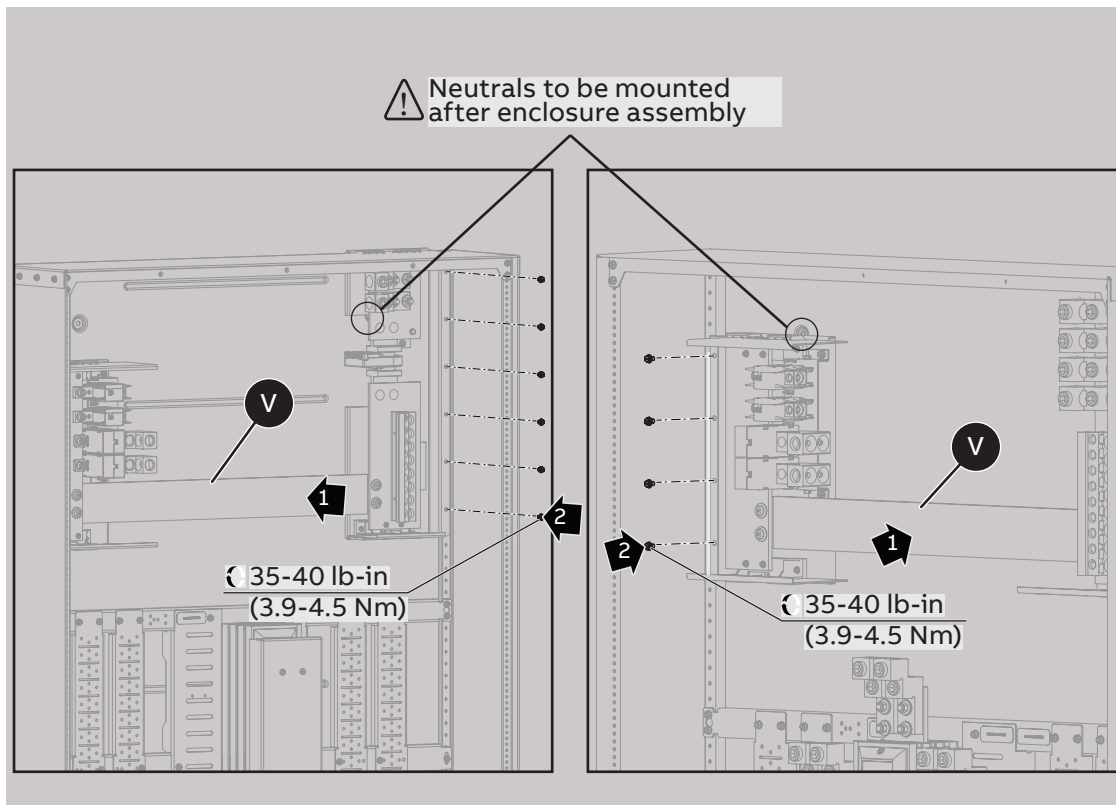


## Ground Fault on Feeder Neutrals (Orientation)



NOTE: Same procedure to be followed for Ground fault on feeders with Ground Fault Main combination.

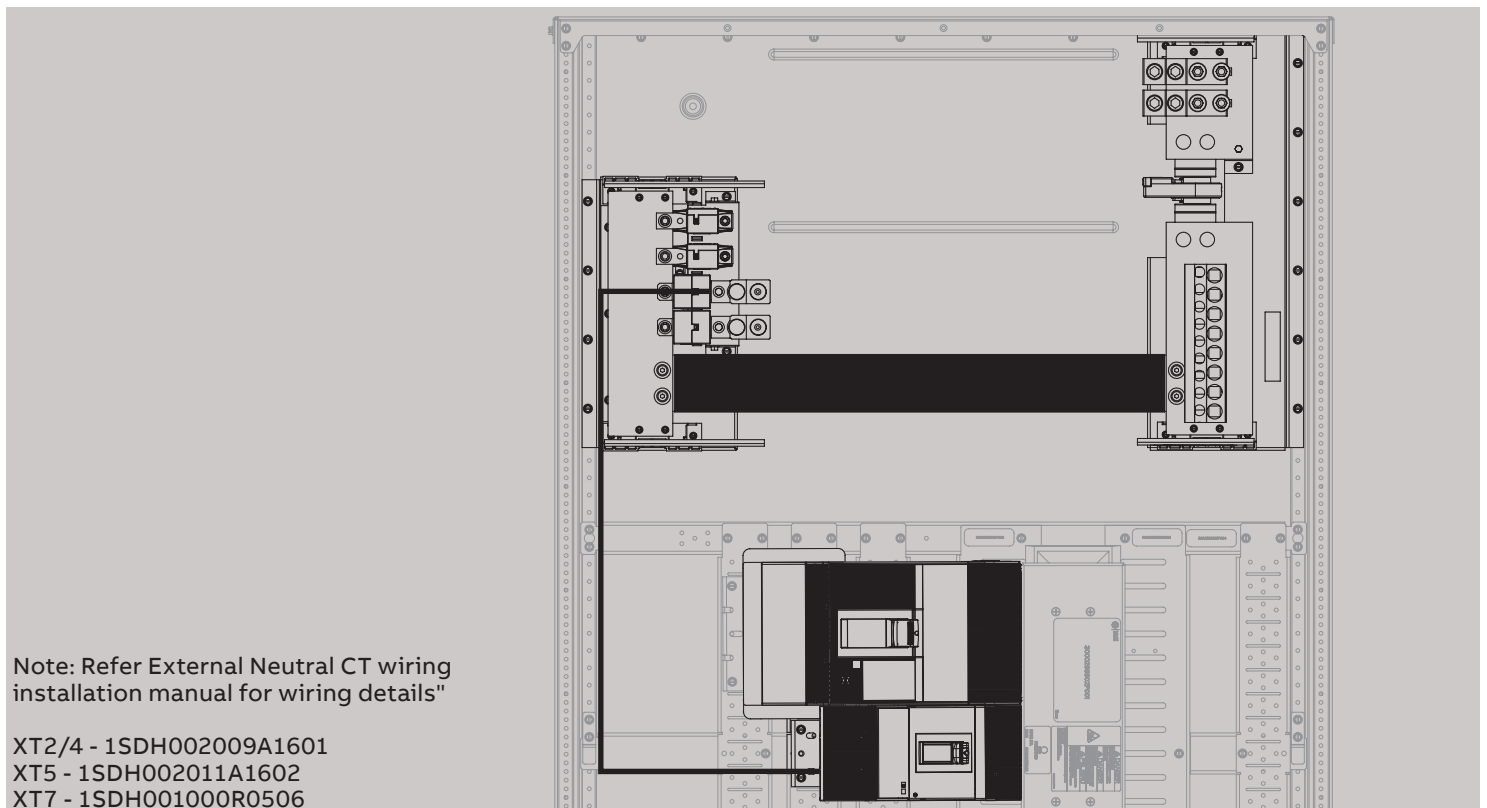
## Ground fault on feeder neutrals (Assembly in Panel)



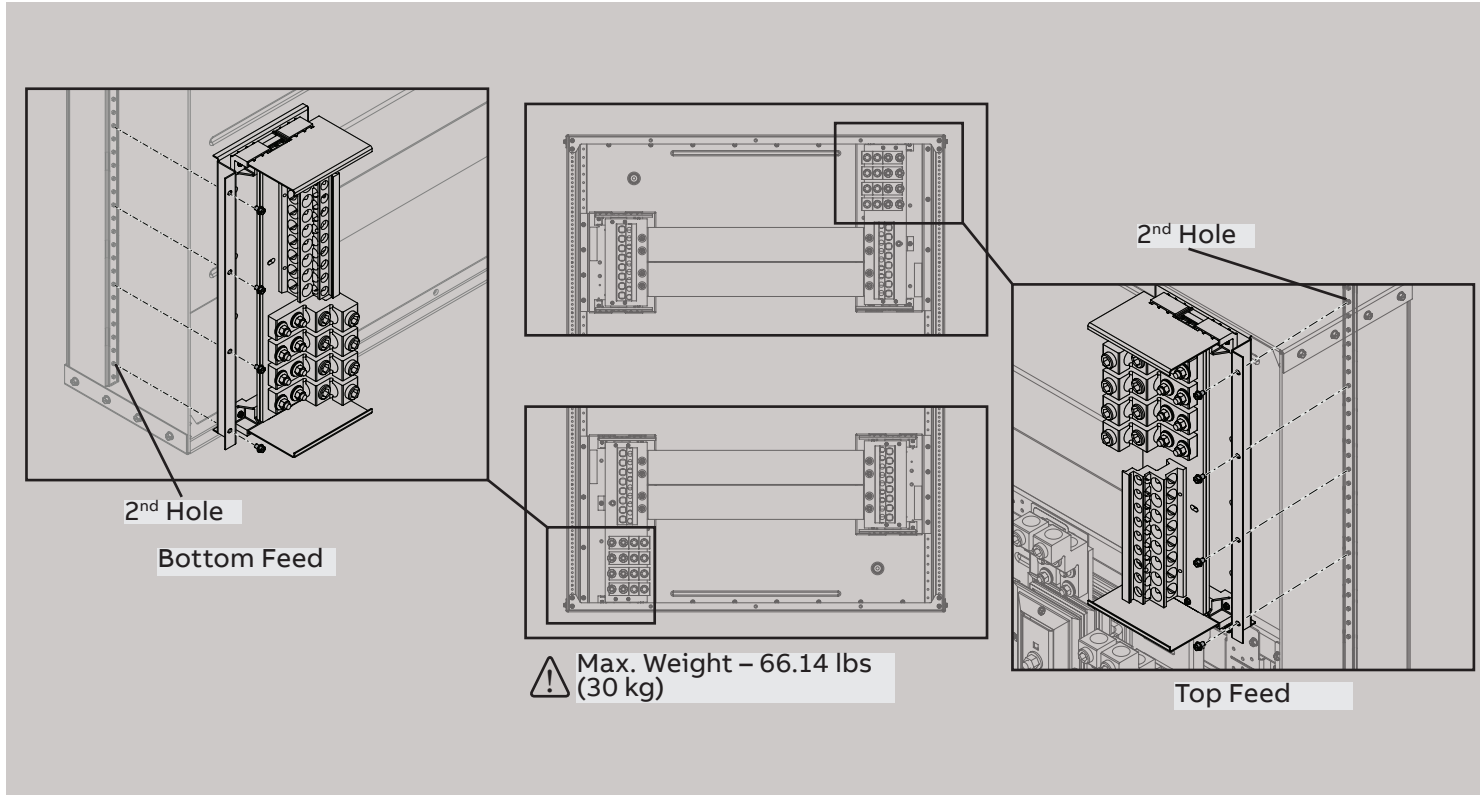
### Note:

1. Same procedure to be followed for Ground fault on feeders with Ground Fault SN combination.
2. CT wire is factory connected to LSIG breaker. Connect the other end of wire to respective CT.
3. Route the CT wire along the frame and use tie wraps to fix extra length of wire.
4. For Ground Fault on Feeder performance testing refer document -Reliagear Ground Fault Protection systems ([1VAL006401-HT](#)) - Performance testing circuit (10 and 11)

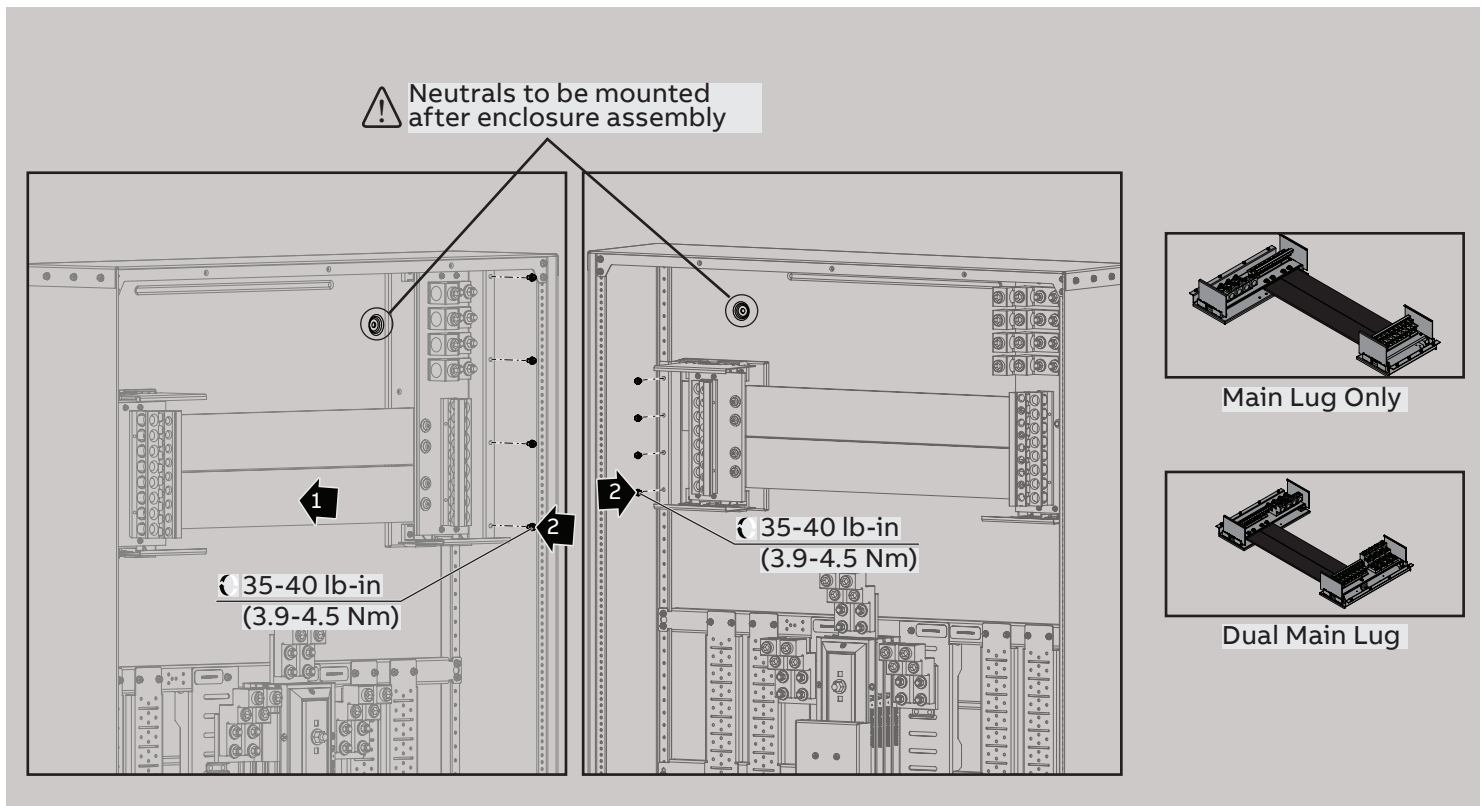
## Ground Fault on Feeders Feeder wiring connection



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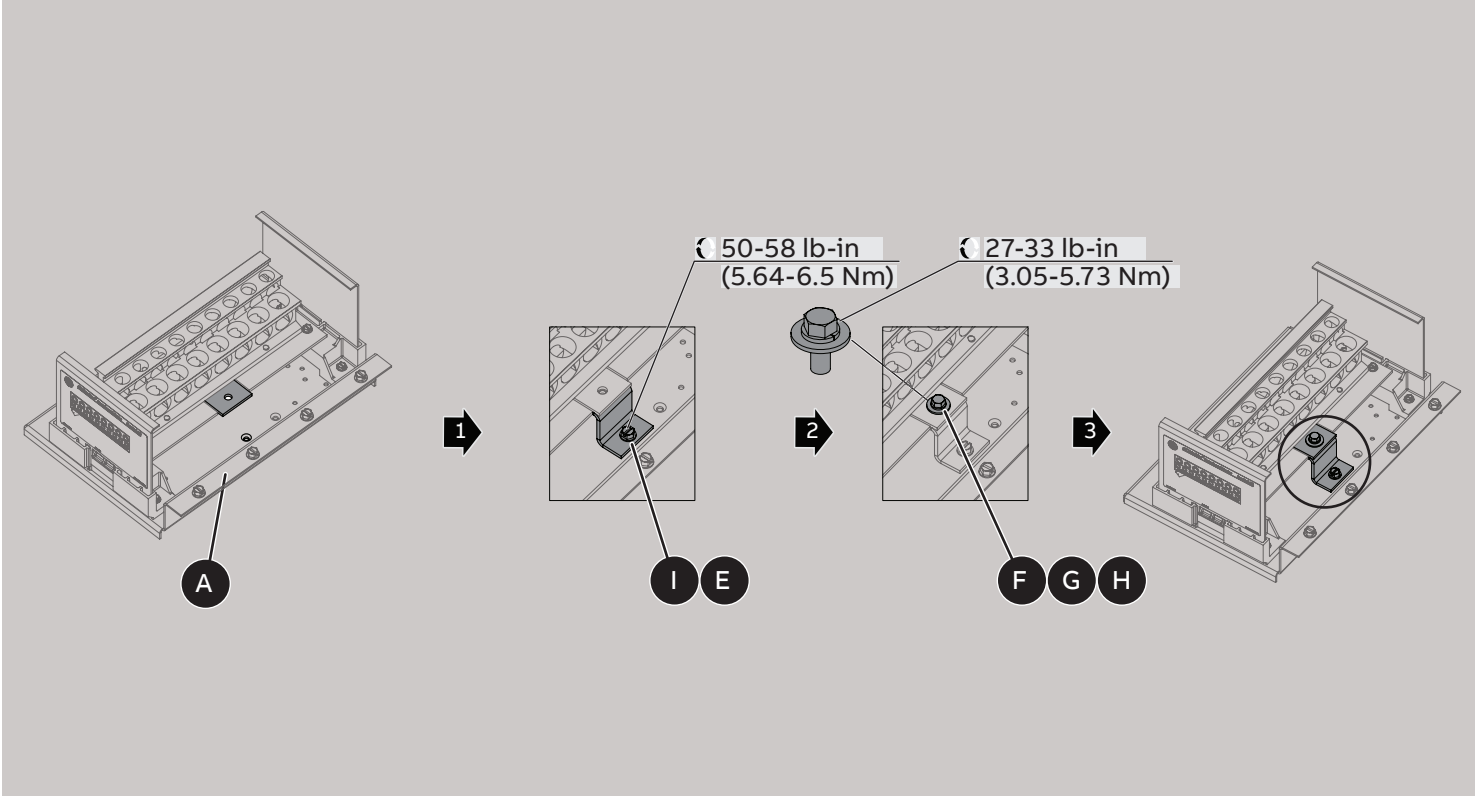
200% Neutrals  
(Orientation)

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200% Neutrals  
(Assembly in Panel)

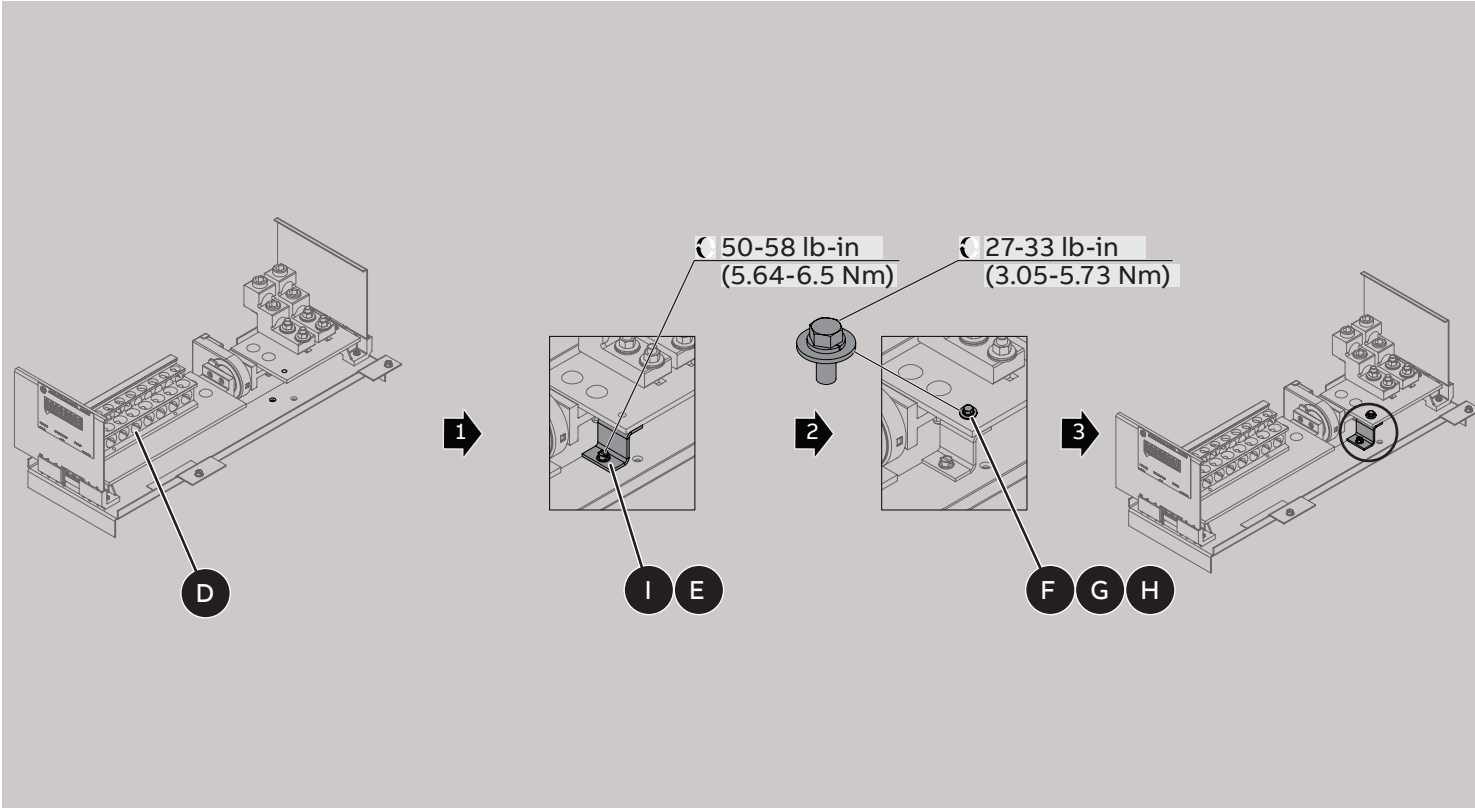
13

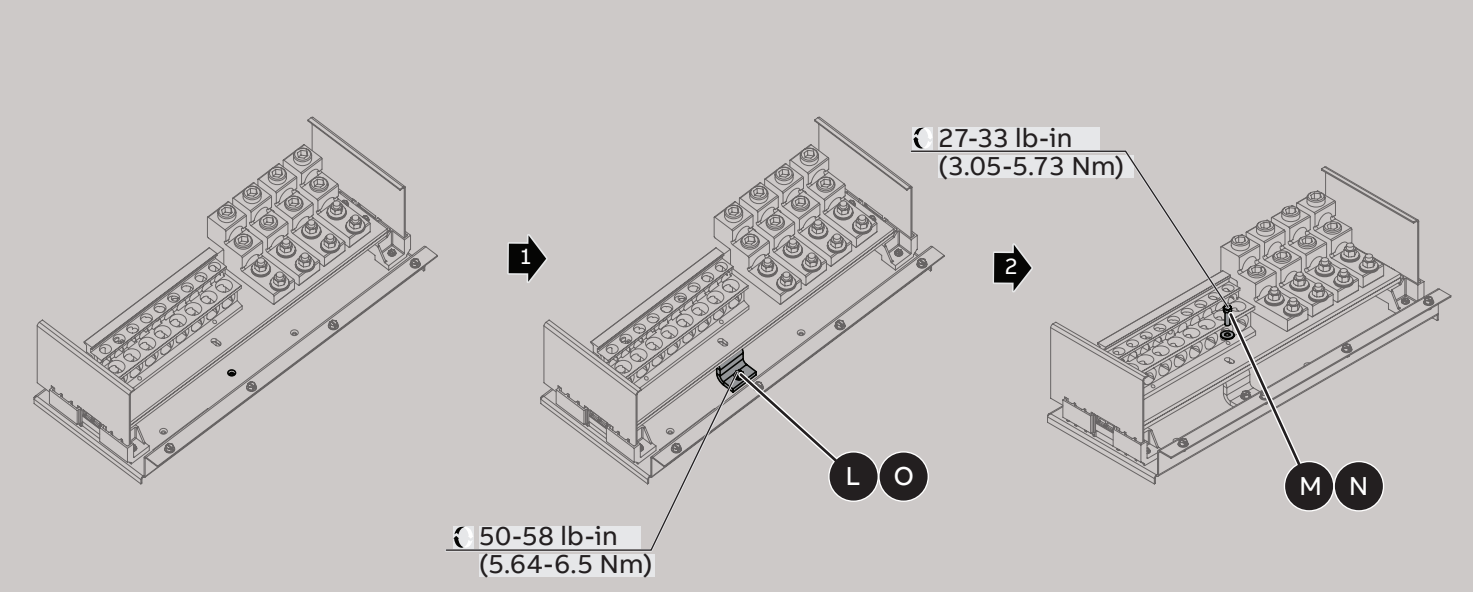
Neutral bonding strap installation  
(for standard/dml/compression lug neutrals)



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Neutral bonding strap installation  
(for ground fault neutrals)





For Assembly variant and lug termination details refer to "[1SQC900020M0201](#)".

**Disclaimer :** These instructions do not cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to the ABB Company.

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