Do not perform any of the activities described on this document with the recloser energized. All the activities listed on this document must be performed with the recloser completely de-energized, isolated, grounded and out of service.

ALWAYS follow your company’s safety procedures before performing any work on this equipment.

**Note:** These instructions are based on an existing frame that has been outfitted with a C-channel for PT mounting, as depicted below.
Removal of the C-channel

1. If surge arrestors are already installed, remove those first, then remove the brackets:

![Image of surge arrestors and brackets](image1.png)

2. Remove the C-channel by unbolting it from the frame. The image below displays two of the bolts. Two similar bolts are found on the other side of the frame:

![Image of C-channel unbolting](image2.png)
3. The resulting frame will look like this:

**Surge arrestor, line post sensor, and PT installation**

1. Install the two low-profile PT supports using the 4 highlighted holes (see installed supports in second picture below):
2. Install the surge arrestor side brackets, which were previously removed from the C-channel, to both sides of the frame using the highlighted holes (installed brackets shown in second picture below):

3. Mount the side surge arrestors (if available) on top of the side brackets as shown (two views shown for clarity):
4. Install the center bracket (removed from the C-channel in a previous step) to the highlighted holes (installed bracket shown in second picture below):

5. Mount the center surge arrestor (if available) on top of the center bracket:
6. Mount the line post sensors using the shown holes (two views shown for clarity):

7. Mount the PT using the 4 highlighted holes:
Control cabinet wiring

Note: OVR control cabinet shown in pictures. Wiring location and terminal block availability may differ when dealing with the GridShield recloser.

1. The sensor cables can be brought in through the bottom of the control cabinet. A hole may need to be knocked out in the floor plate:

2. Wire the cables to the free terminal blocks. A total of 6 terminal blocks will be needed. Each “polarity” wire should be on its own terminal block. The “non-polarity” and drain wires are wired to the same terminal block and jumpered together. Finally, wire in the cable that plugs into the PCD. Note that the wire colors may differ. Please consult the line post sensor specifications for wire coloring:
3. Unplug the embedded voltage sensor cable from the PCD’s VD/CT card and connect the wired cable:

If there are any further questions on this topic, please contact the Customer Service Group at:

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For further information on the GridShield® and OVR reclosers and other feeder automation products, please visit the ABB web-site at [www.abb.com/mediumvoltage](http://www.abb.com/mediumvoltage) and the Feeder Automation User’s web-site [www.abb.com/fa-users](http://www.abb.com/fa-users).