



M-7679 R-PAC QUICK REFERENCE GUIDE

PROTECTION, AUTOMATION AND CONTROL SYSTEM FOR RECLOSER, SWITCH, SECTIONALIZER AND ADVANCED DISTRIBUTION AUTOMATION APPLICATIONS.

Eaton Cooper Form 6 Retrofit with M-7679 with M-2406 Adapter Chassis



Required Tools:

- PC running Windows 7® or higher
- S-7600 IPScom Communications Software

Latest version of IPScom software can be downloaded from:

<https://beckwithelectric.com/products/s-7600/>

Required Documentation:

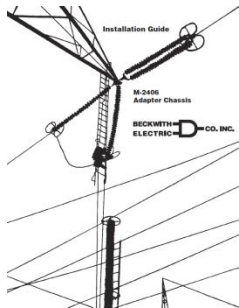
- M-7679 Instruction Book
- M-7679 Application Guide
- Communications and Cybersecurity A.G.

Latest version of M-7679 Instruction Book can be downloaded from:

<https://beckwithelectric.com/products/m-7679/>

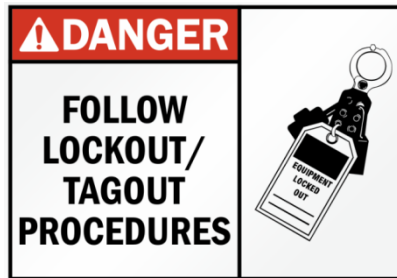
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Necessary Tools

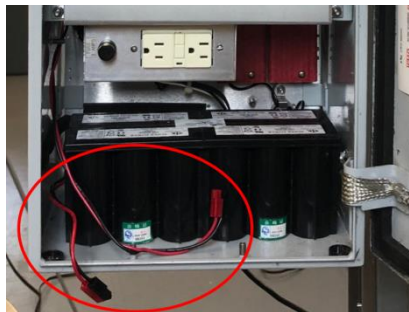
1	M-7679 R-PAC installed in an M-2406 Eaton Cooper Form 6 Adapter Chassis.	
2	M-2406 Installation Guide	
3	# 1 Phillips screwdriver	
4	7/16" & 3/8" nut drivers	
5	3/8" Open end wrench	
End of Procedure.		

First Steps

- 1 Ensure that the Utility's Lockout / Tagout Procedures are followed in this installation



- 2 Disconnect power from the control box and also ensure the battery is disconnected



- 3 Disconnect the actual control cable from the recloser control



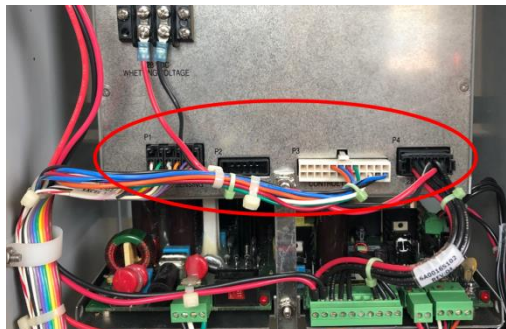
- 4 Visually verify that the control is OFF



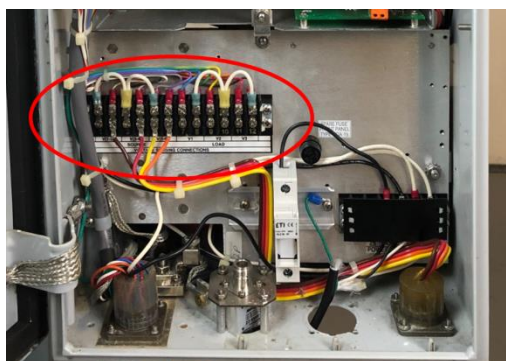
End of Procedure.

Compatibility Check

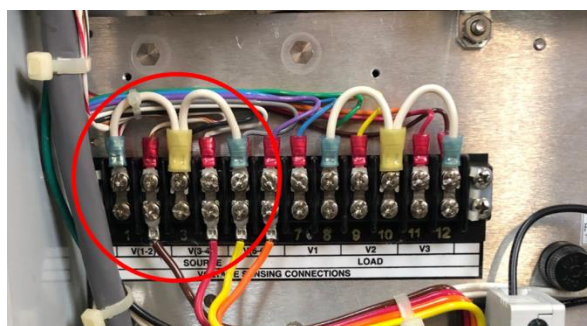
- 1 The M-2406 Adapter Chassis is compatible with Cooper Form 6 controls with the serial number 10000 and above. This can be visually verified by looking at the back of the Form 6 control. If it has the connectors **P1, P2, P3 and P4**, then the M-2406 Adapter Chassis will be able to be installed in the Form 6 control box.



- 2 14 and 19 pin reclosers come with an optional voltage sensing input. If the control box comes with this optional voltage sensing input check that the jumpers are in the correct location

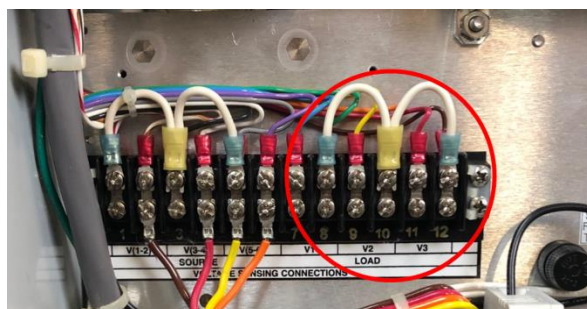


- 3 The jumper on the left must be connected on the odd terminals **1, 3, and 5**.



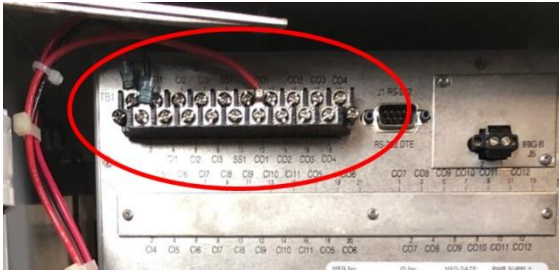
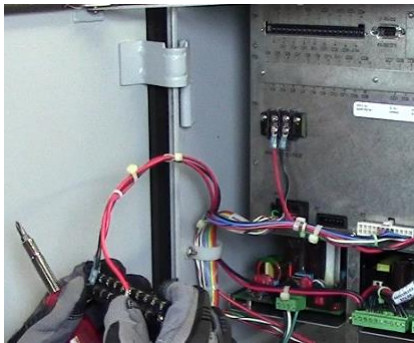
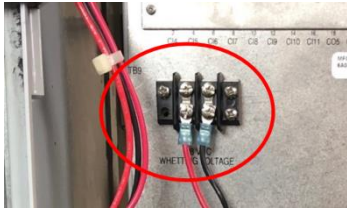
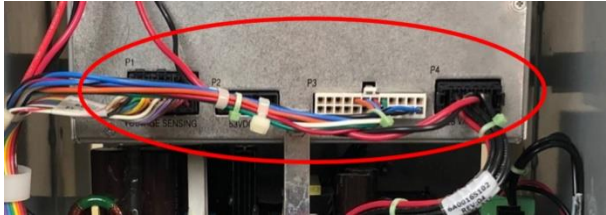
- 4 The jumper on the right must be connected on the even terminals **8, 10 and 12**.

If this is not the case for the control, please refer to the Installation Guide for a simple adjustment of these jumpers.



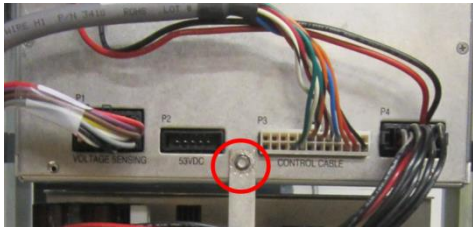
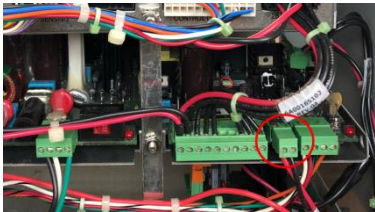
End of Procedure.

Electrical Extraction of the Form 6 control

1	Disconnect Terminal Block 1 by loosening the two screws on the side of the Terminal Block and then removing the Terminal Block from the back of the control.	
2	These wires corresponding to this Terminal Block are no longer needed for the M-2406 Adapter Chassis so they can be removed from the wire harness.	
3	Remove Terminal Block 9.	
4	This can be done by loosening the screws from the corners of the Terminal Block and removing them.	
5	Disconnect the connectors of the bottom of the Form 6. These connectors are P1, P3 and P4 . This can be done by gently pressing down the tab and removing the connectors from the back of the relay.	

End of Procedure.

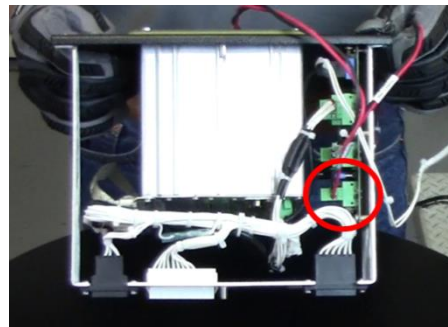
Mechanical Extraction of the Form 6 control

1	Remove the 7/16" nut from the back of the Form 6 control. Keep all the hardware as it will be used to install the M-2406 Adapter Chassis.	
2	Remove the 4 3/8" nuts from the front side of the Form 6 control.	
3	Remove the Latch screw at the top of the control cabinet. This can be done with the nut driver or using the 3/8" wrench.	
4	Once the screws are removed, the Form 6 control can be removed from the control cabinet.	
5	Remove the battery harness from the cabinet and save it to install it on the Adapter chassis.	

End of Procedure.

Mechanical Installation of the M-2406 Adapter Chassis

- 1 Prior to the Mechanical Installation, install the battery harness on the Adapter chassis by connecting the 2-pin Phoenix connector in the battery input.



- 2 Insert the Adapter chassis into the control cabinet. Make sure that the battery wires go through the control cabinet first and secure the Adapter chassis using the same hardware saved from the previous extraction.



- 3 Install the Latch nut at the top of the control cabinet using the same hardware saved from the previous extraction.



- 4 Take the grounding strap, put it on the screw at the back of the chassis and install the 7/16" nut saved from the previous extraction.



End of Procedure.

Electrical Installation of the M-2406 Adapter Chassis

- 1 Connect P1, P3 and P4 connectors on the corresponding slots at the back of the M-2406 Adapter Chassis.



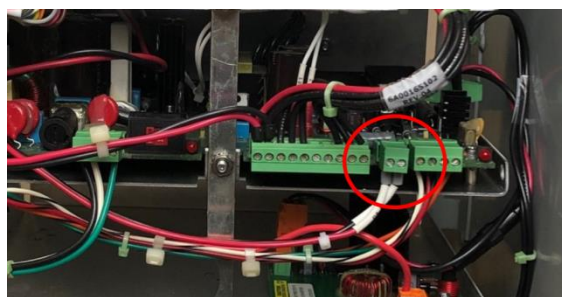
- 2 Connect the battery wake cables to the battery wake terminals on the board of the existing Cooper hardware. These wires are identified as TM1 and TM2 and shall be connected to the TM1 and TM2 terminals on the board.



- 3 Install the Terminal Block 9 on the M-2406 Adapter chassis. This installation only needs the same two screws saved from the previous extraction and will go in the opposite corners.



- 4 Connect the battery charging cable to the existing board on Cooper cabinet. Also, push the battery cable through the control cabinet to the front.



- 5 If the shield at the terminal blocks for the optional voltage input was taken off, make sure to put it back.



End of Procedure.

Final Tests

- 1 Connect the control cable to the bottom of the cabinet



- 2 Connect the battery wires and apply power to the cabinet



- 3 After the M-7679 has booted up, it will show the status of the recloser. It is recommended to perform at least one Trip / Close sequence to verify operation of the control cabinet



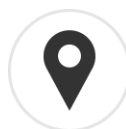
- 4 This concludes the installation of the M-7679 R-PAC control in a Cooper control cabinet using the M-2406 Adapter Chassis.



End of Procedure.



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