SPORTSMOBILE ELECTRICAL

UPGRADING FROM SURE POWER 1315 TO BLUE SEA 762X

Mar 14,2015

Sure Power to Blue Sea ACR

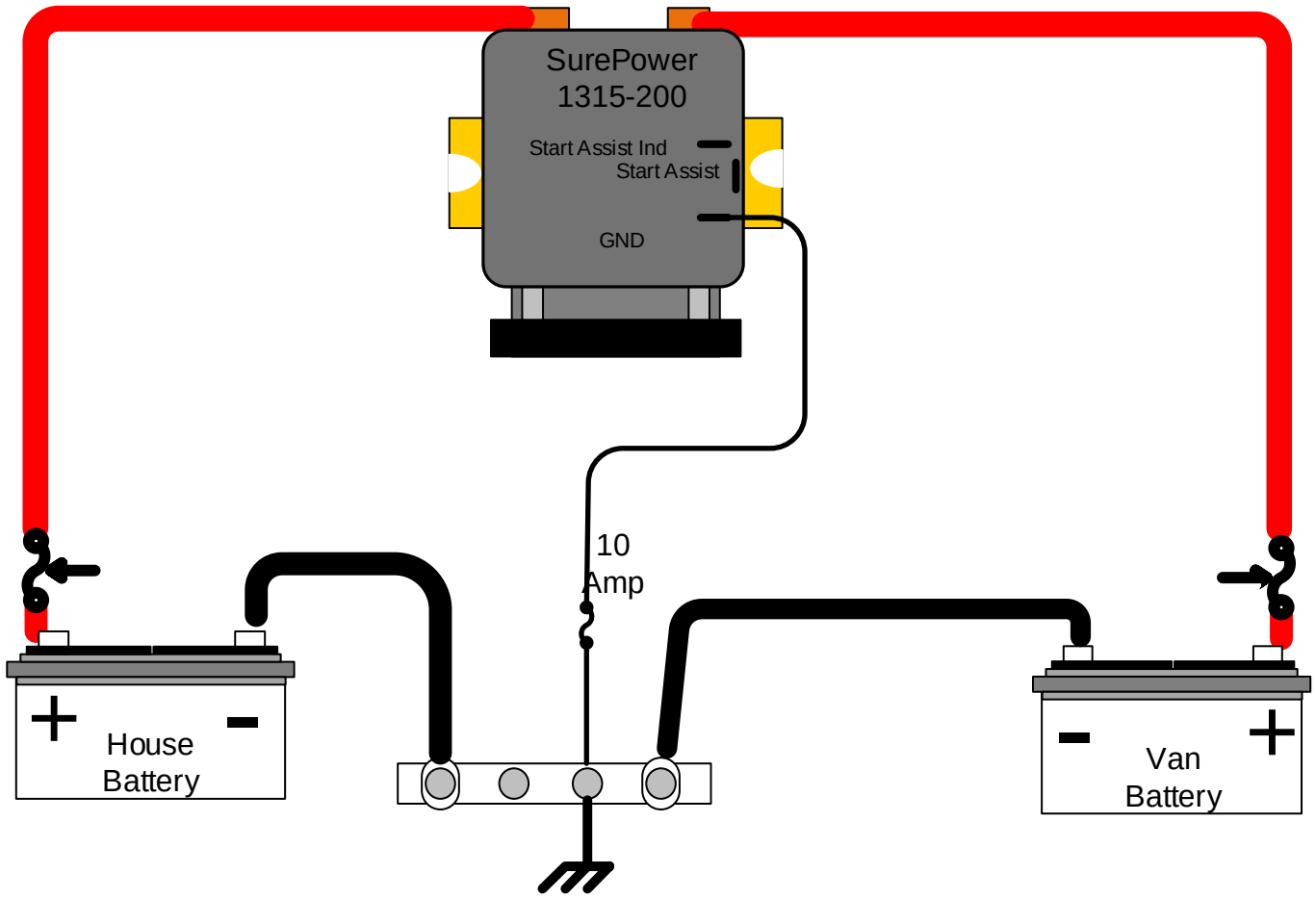
1315

7622

Differences between Sure Power and Blue Sea

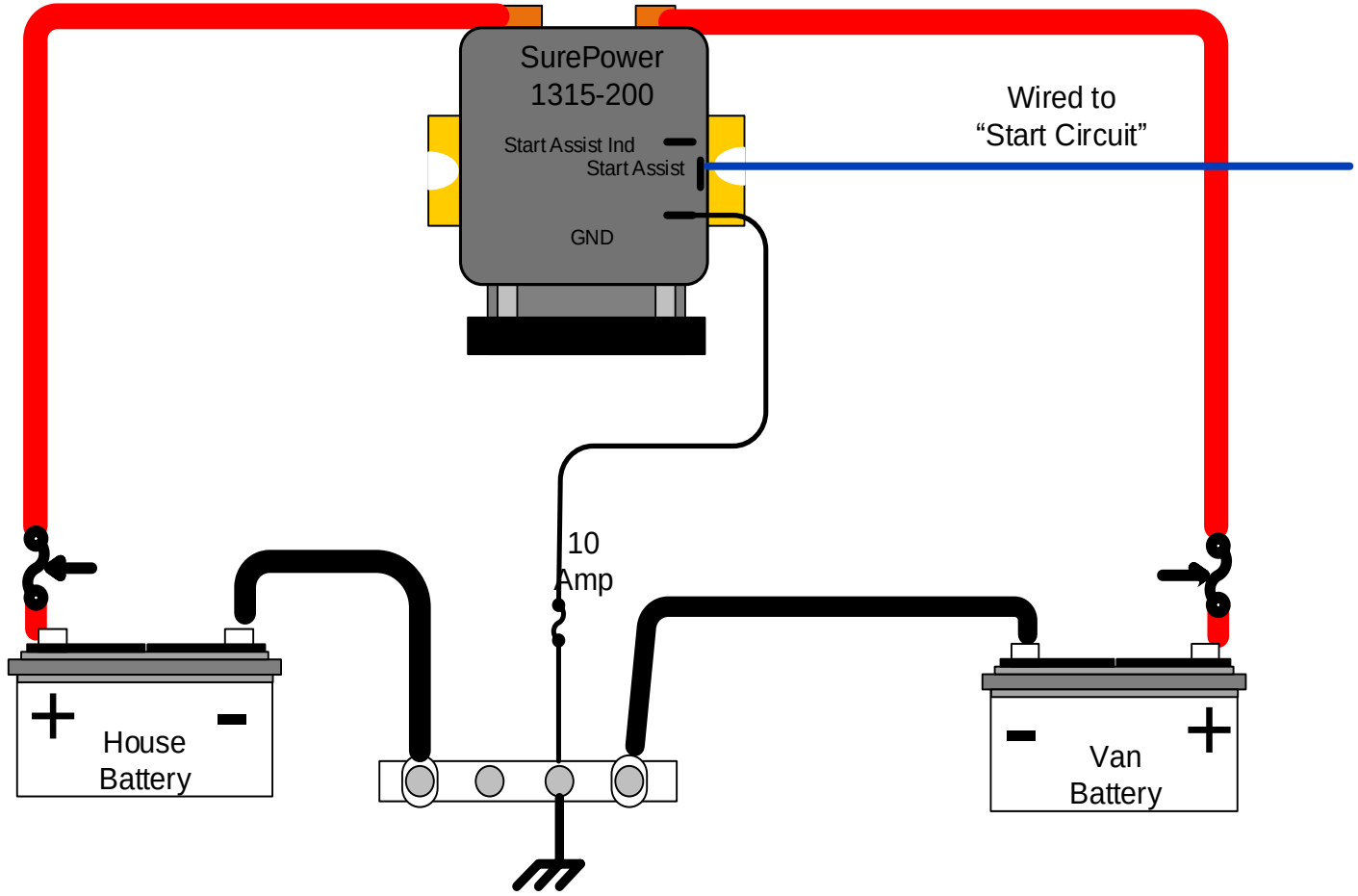
- Terminals on the Sure Power are 5/16
- Terminal on the Blue Sea are 3/8
- You will need larger 3/8 ring terminals
- You should be able to use the same ground connection.
- Depending on how the start assist was wired, you could use it as start isolate on the Blue Sea (It would need to 12 Volts when the key is in Start), if it is wired to a switch this will not work for start isolate.
- Recommend using the included MLS remoted series switch PN 2146
- Sportsmobile generally does not fuse at Starting Battery so this is optional.
- The wire for your Surepower 1315 was probably 2 awg, this can be reused, I would consider the 2 awg the minimum.
- The pictures show both the Surepower and Blue Sea units going directly to the house battery. In reality they will most likely attached to a circuit that is already going to the house.

Sure Power Simple Setup



- Wire from Ground to Ground terminal on Sure Power 1315 (it may have a fuse)
- This wire can be used on the Blue Sea install

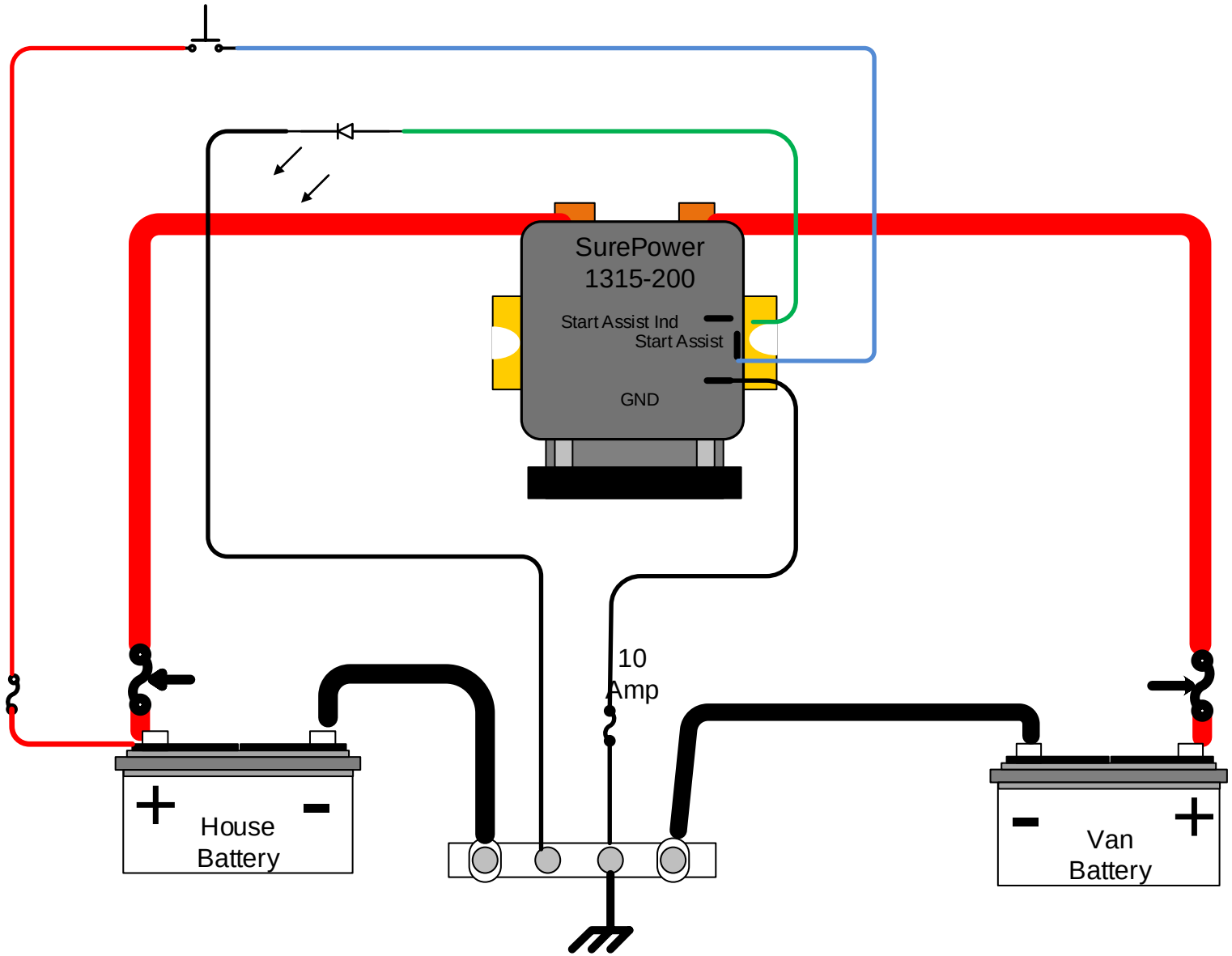
Sure Power with Assisted Start



- Many early SMB’s were wired with the start assists tab being wired to the “start circuit” from the key

- If you wanted to wire the Start isolate function on the Blue Sea you could reuse this wire

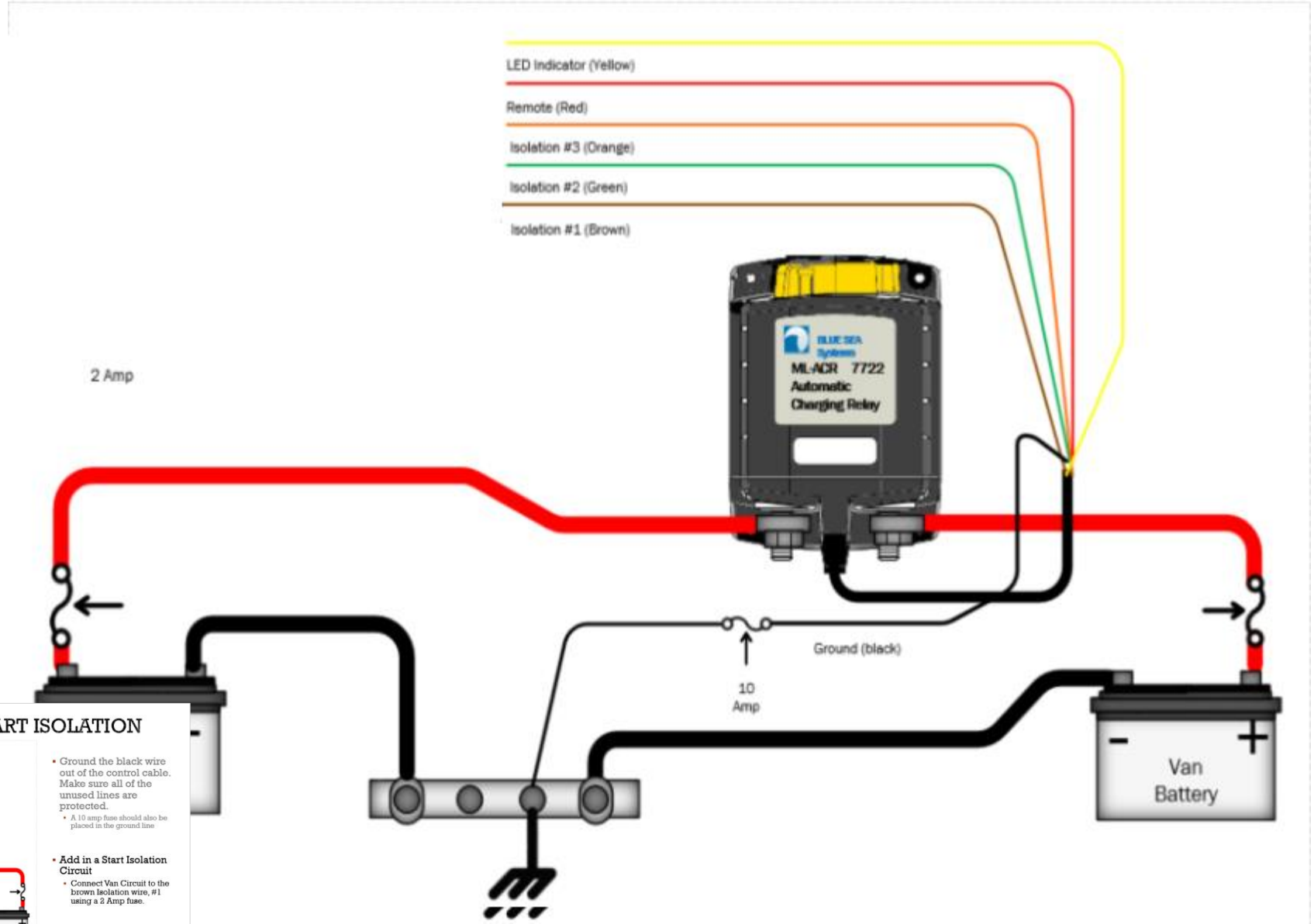
Sure Power with Momentary Assisted Start



- Later some SMB's were wired with a Momentary switch to 12 volts that you could push when wanting to connect the batteries during start.
- Possible, but unlikely that it has a LED wired to the Start Assist LED

- It would be possible to use the 12 volt to the momentary switch for the BLUE SEA Switch PN 2146

BLUE SEA 7622 SIMPLE SET UP



- Ground the black wire out of the control cable. Make sure all of the unused lines are protected.
  - A 10 amp fuse should also be placed in the ground line
- Use 16 AWG wire for all Control Circuit connections. Recommended to meet ABYC minimum wire size requirement

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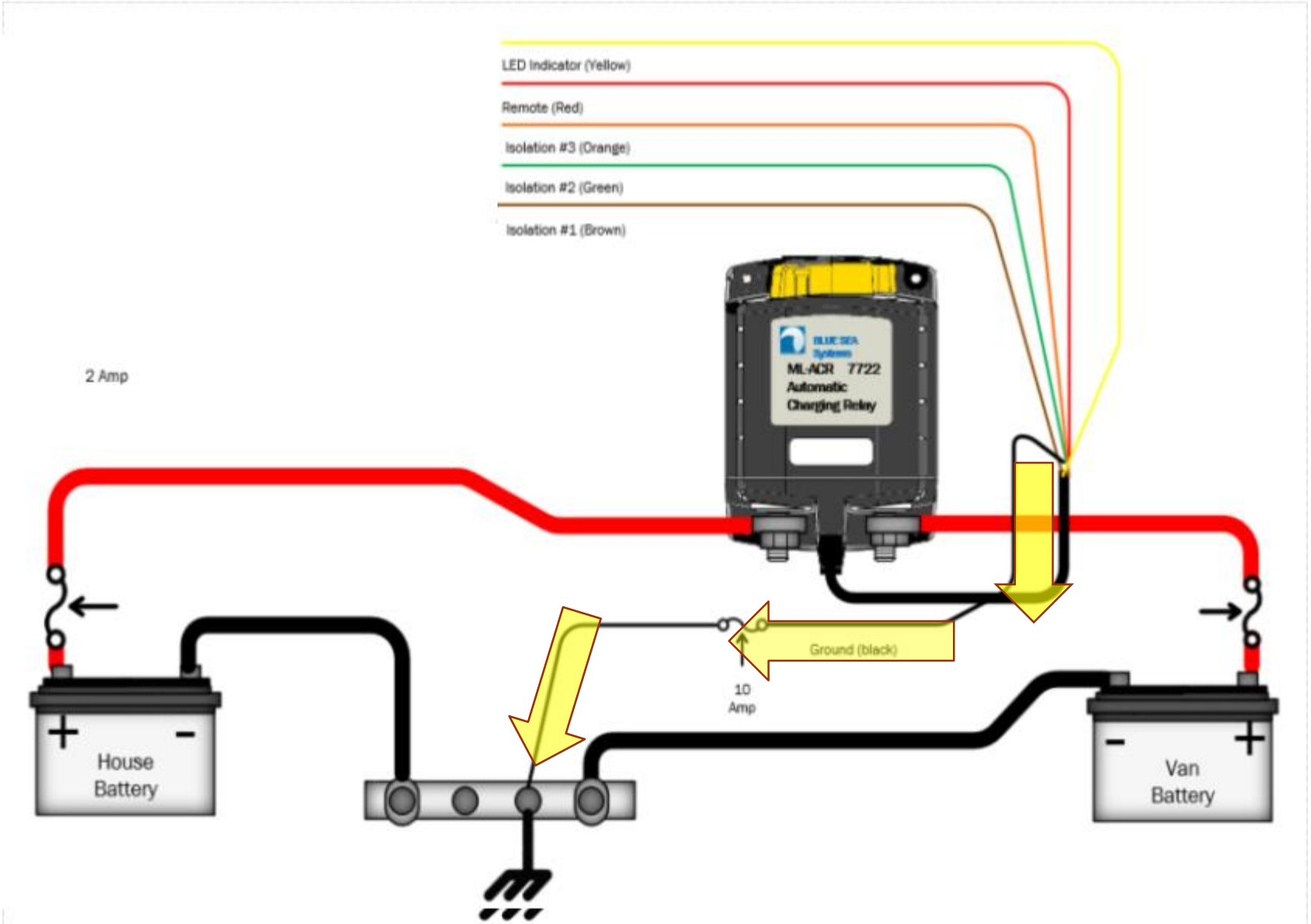

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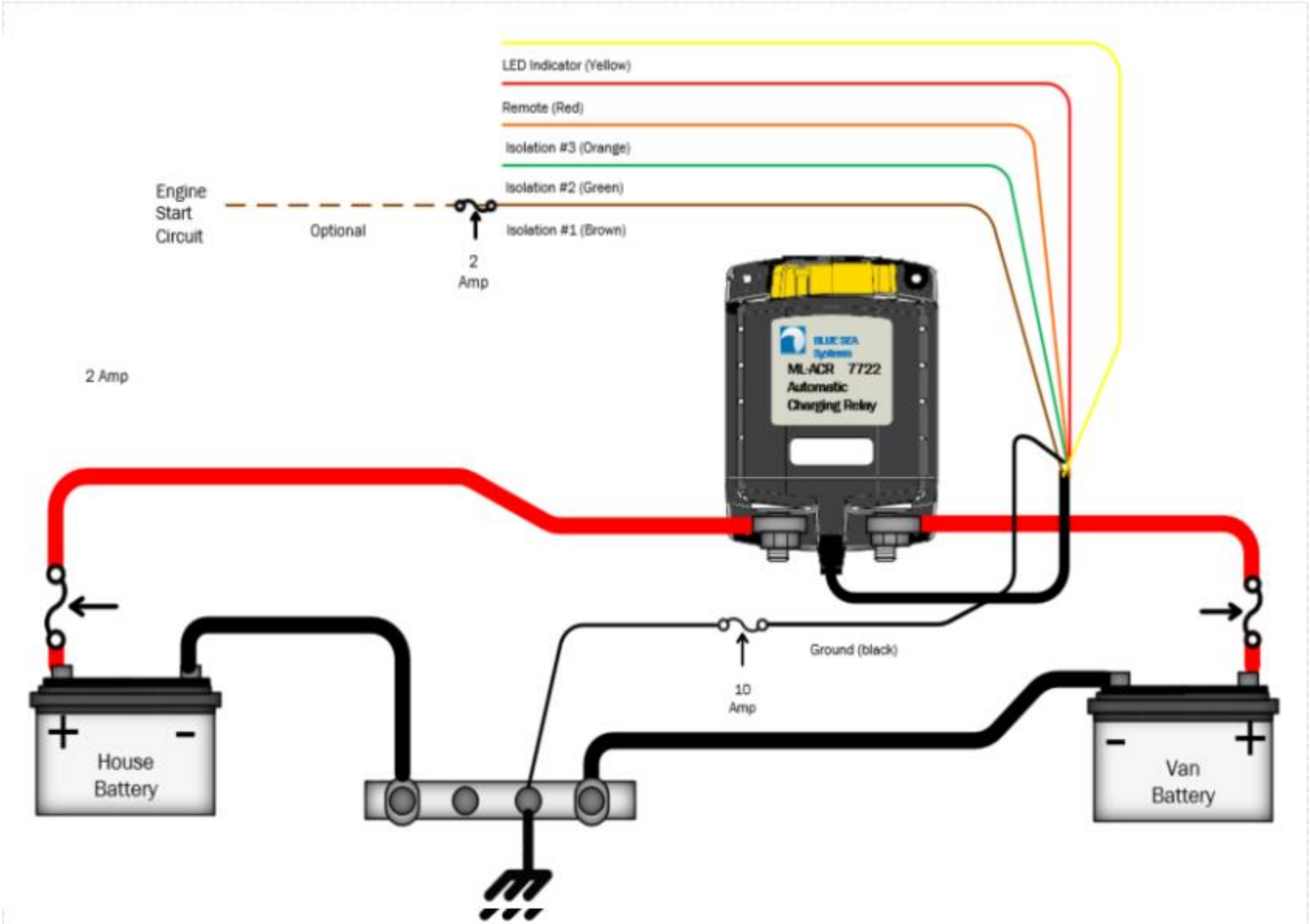
BLUE SEA 7622 ADDING START ISOLATION



- Ground the black wire out of the control cable. Make sure all of the unused lines are protected.
- A 10 amp fuse should also be placed in the ground line
- Add in a Start Isolation Circuit
  - Connect Van Circuit to the brown Isolation wire,#1 using a 2 Amp fuse.

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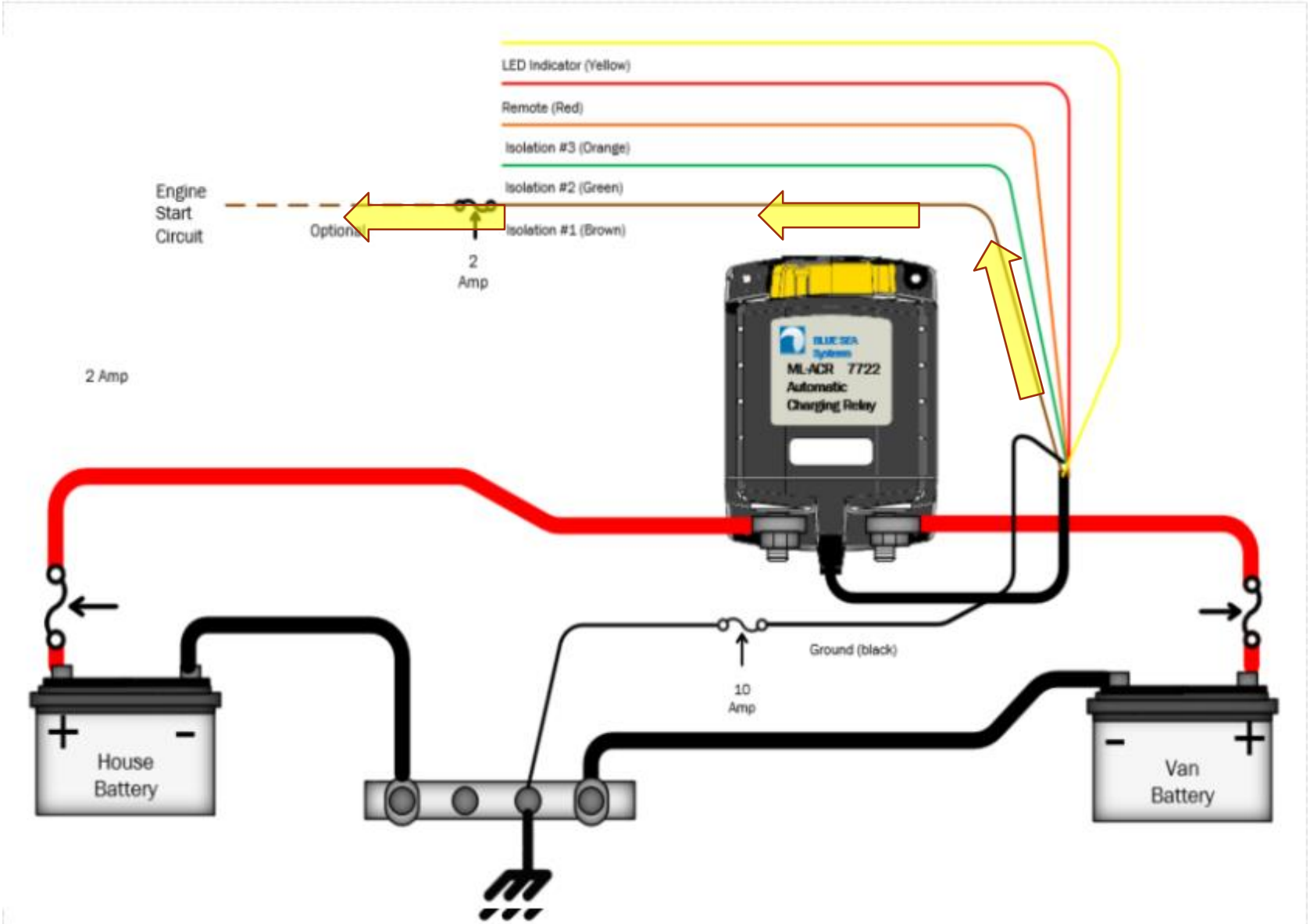

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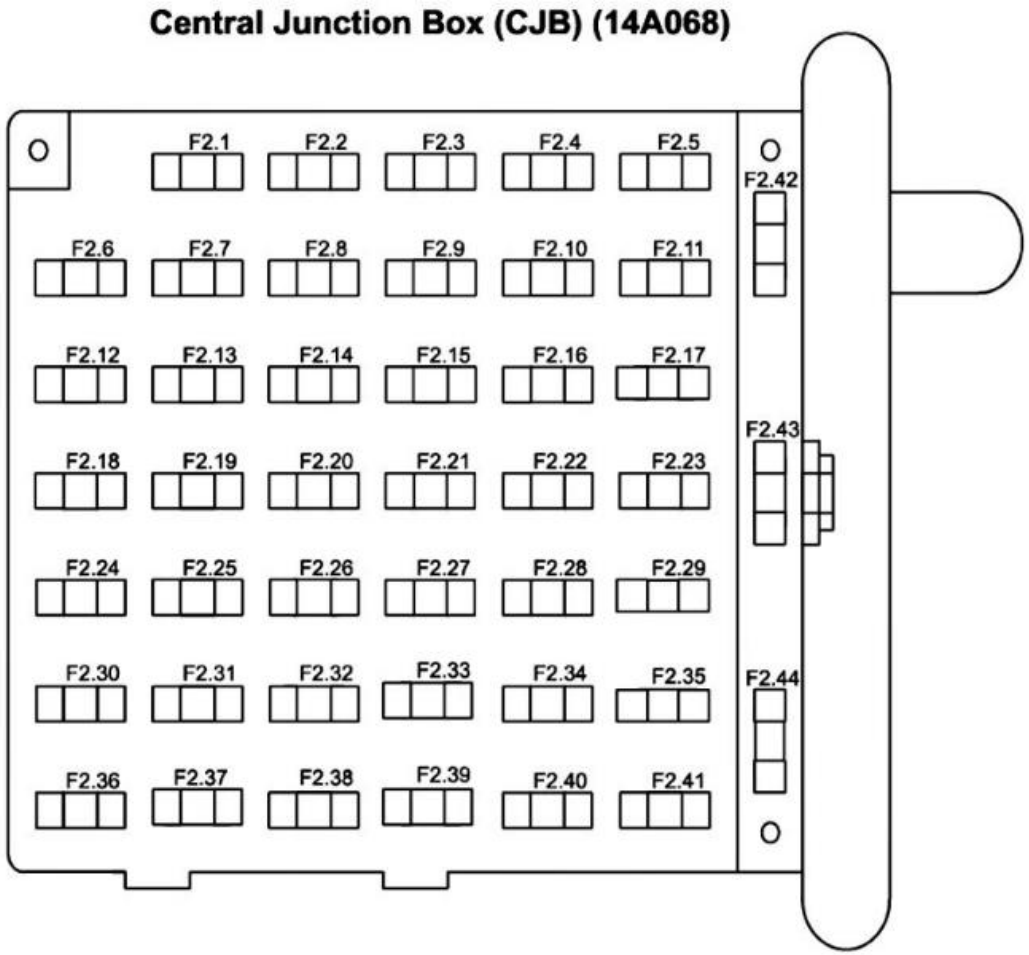
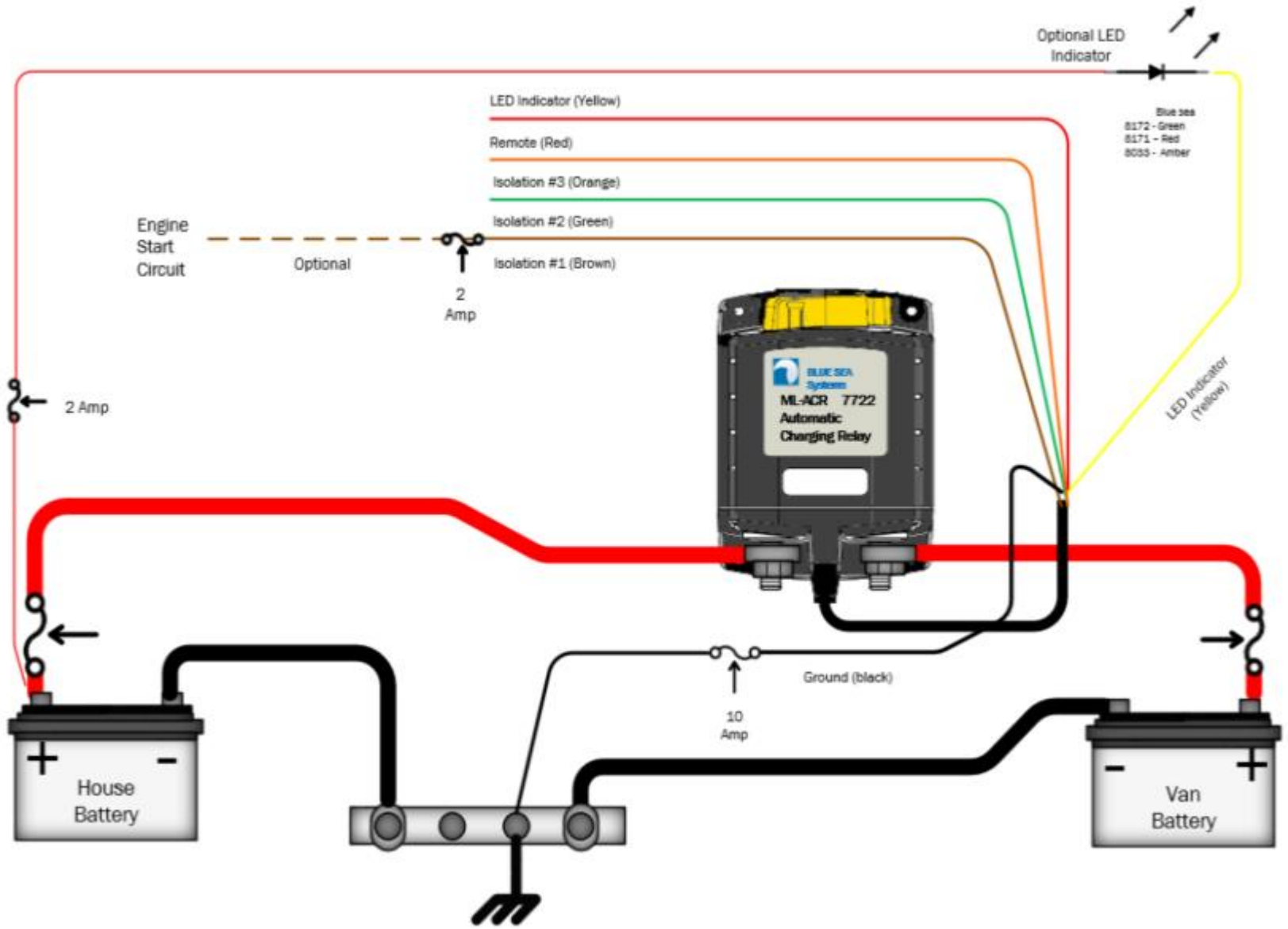
BLUE SEA 7622 FINDING THE START CIRCUIT



- *My 2004 Books say that the start circuit on the key switch connector C250, the switched power to the start solenoid is WH/PK. It should go to your fuse block F2.33 (Starter Relay Diesel), Digital Transmission Range Sensor (Except Diesel). Also F2.27 is for Radio. (Start Cut Out), this goes to PIN 3 (RD/BK) on the Radio Connector..*

BLUE SEA 7622 ADDING LED INDICATOR



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  - A 10 amp fuse should also be placed in the ground line
- Add in a Start Isolation Circuit
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- Add a LED for a visual indicator that ACR is closed
  - Fused connection to Anode
  - Cathode connects yellow wire

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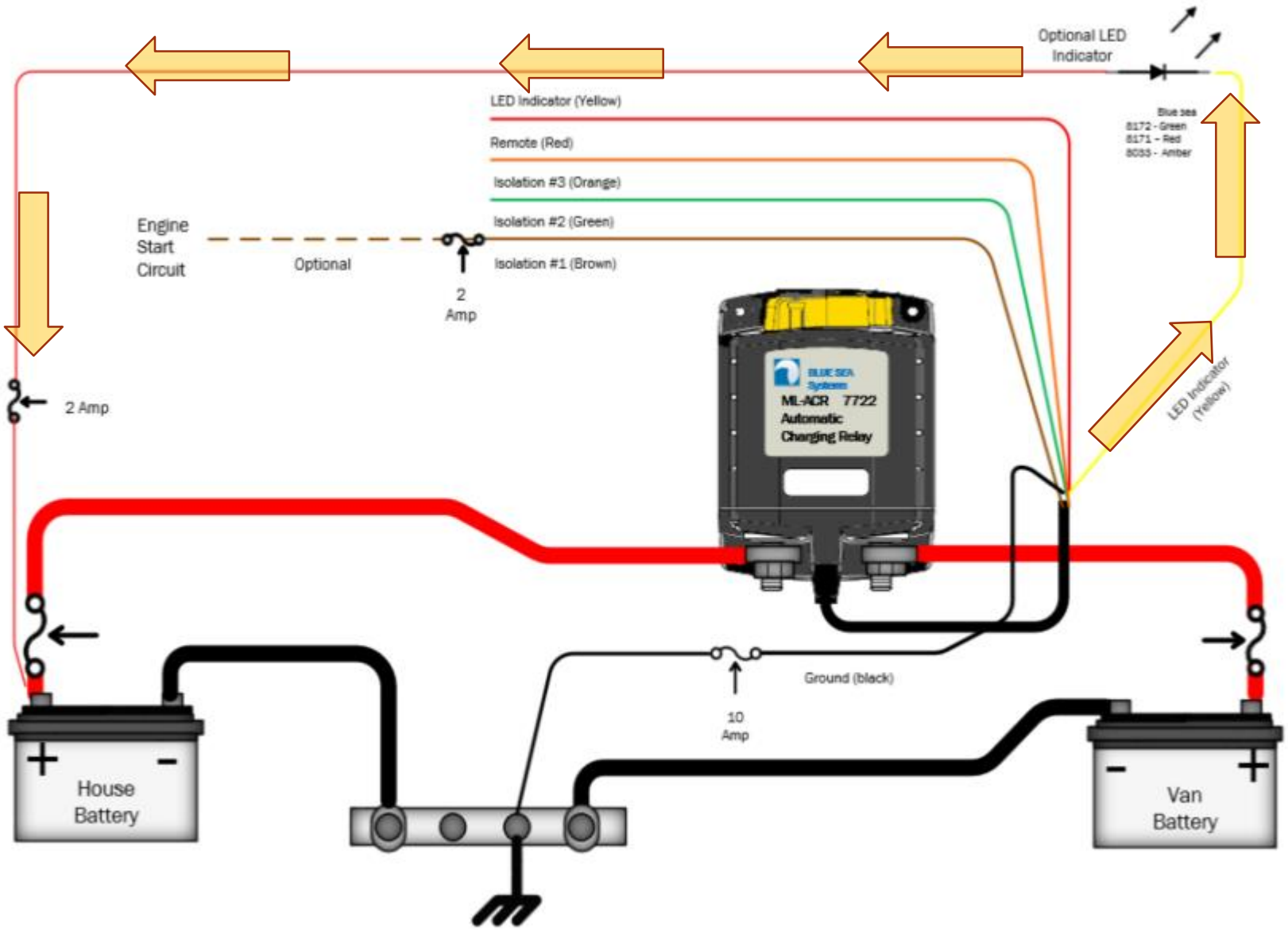

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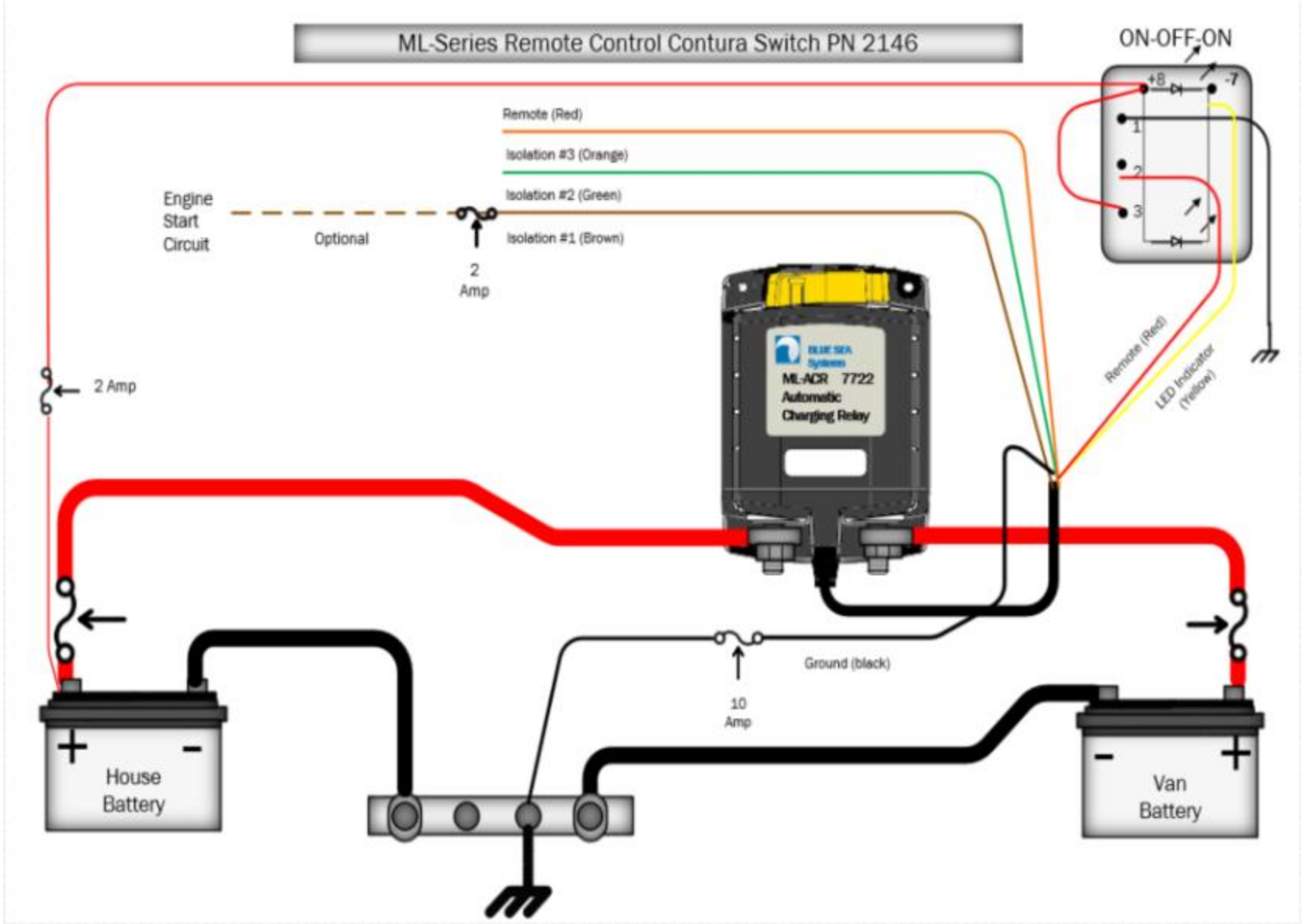
BLUE SEA 7622 WITH SWITCH PN 2146



- Ground the black wire out of the control cable. Make sure all of the unused lines are protected.
  - A 10 amp fuse should also be placed in the ground line
- Connect 2 amp fuse wire to switch terminal 8 & terminal 3
- Add ground to terminal 1
- Red control wire goes to terminal 2
- Yellow wire goes to terminal 7

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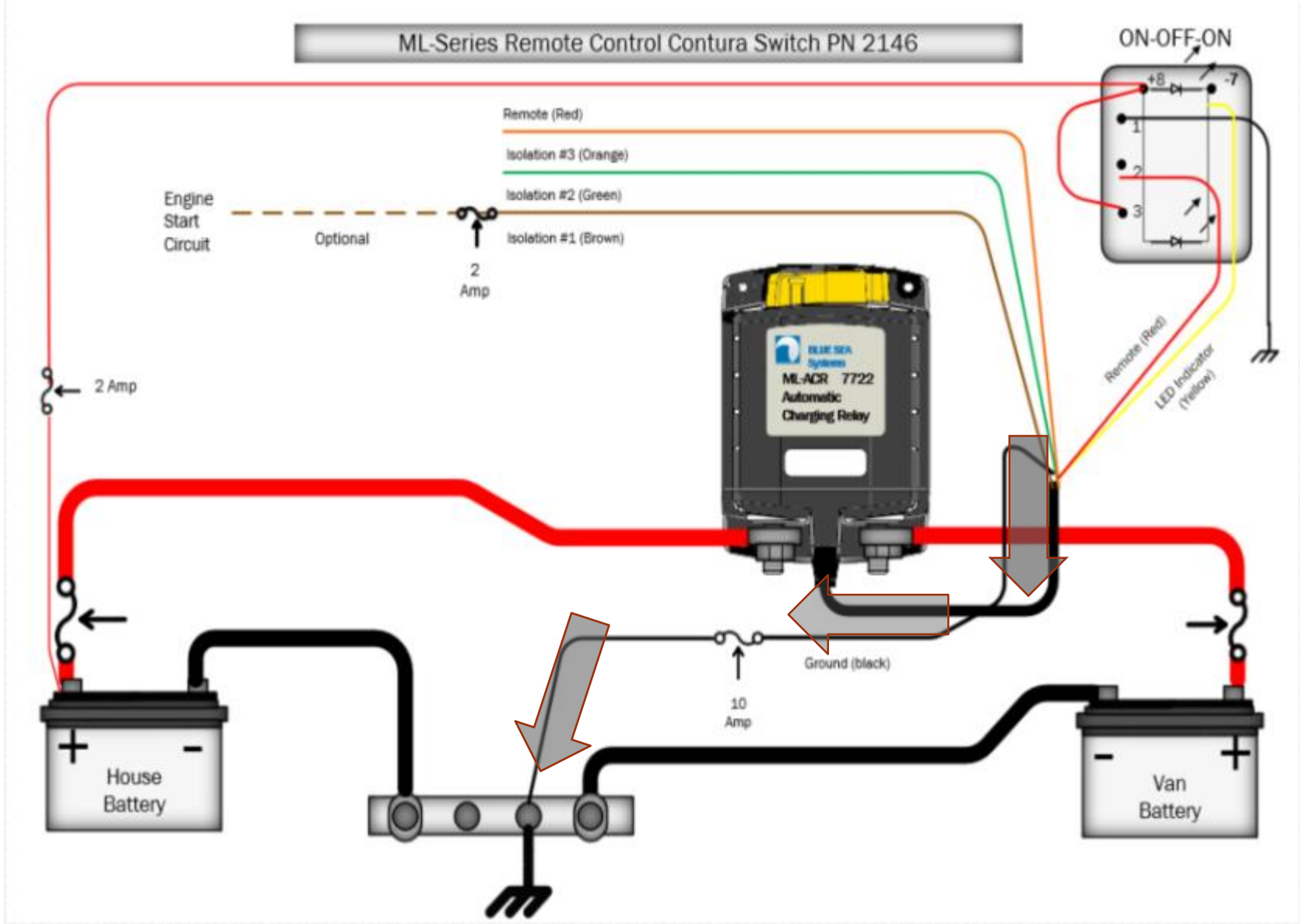

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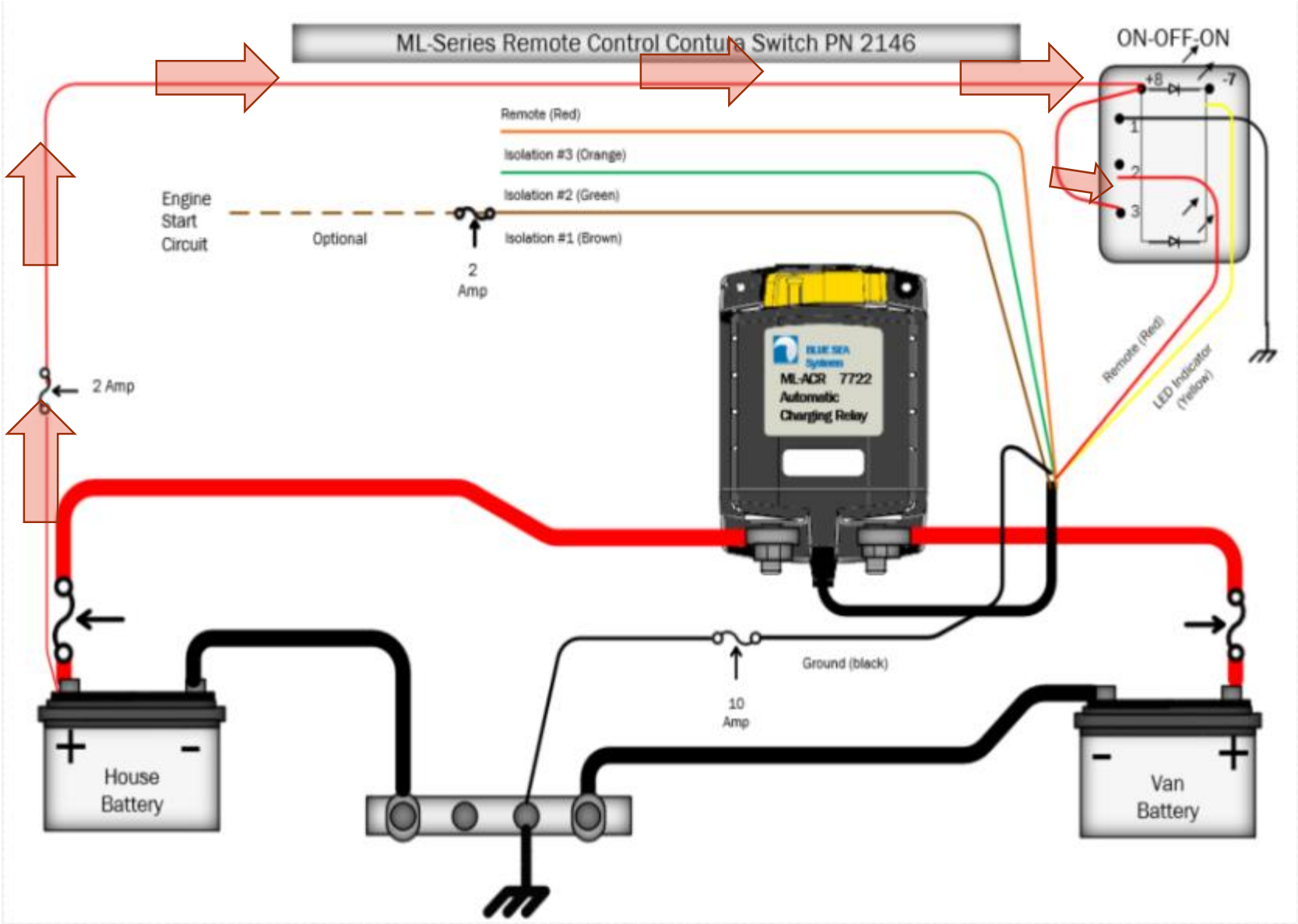

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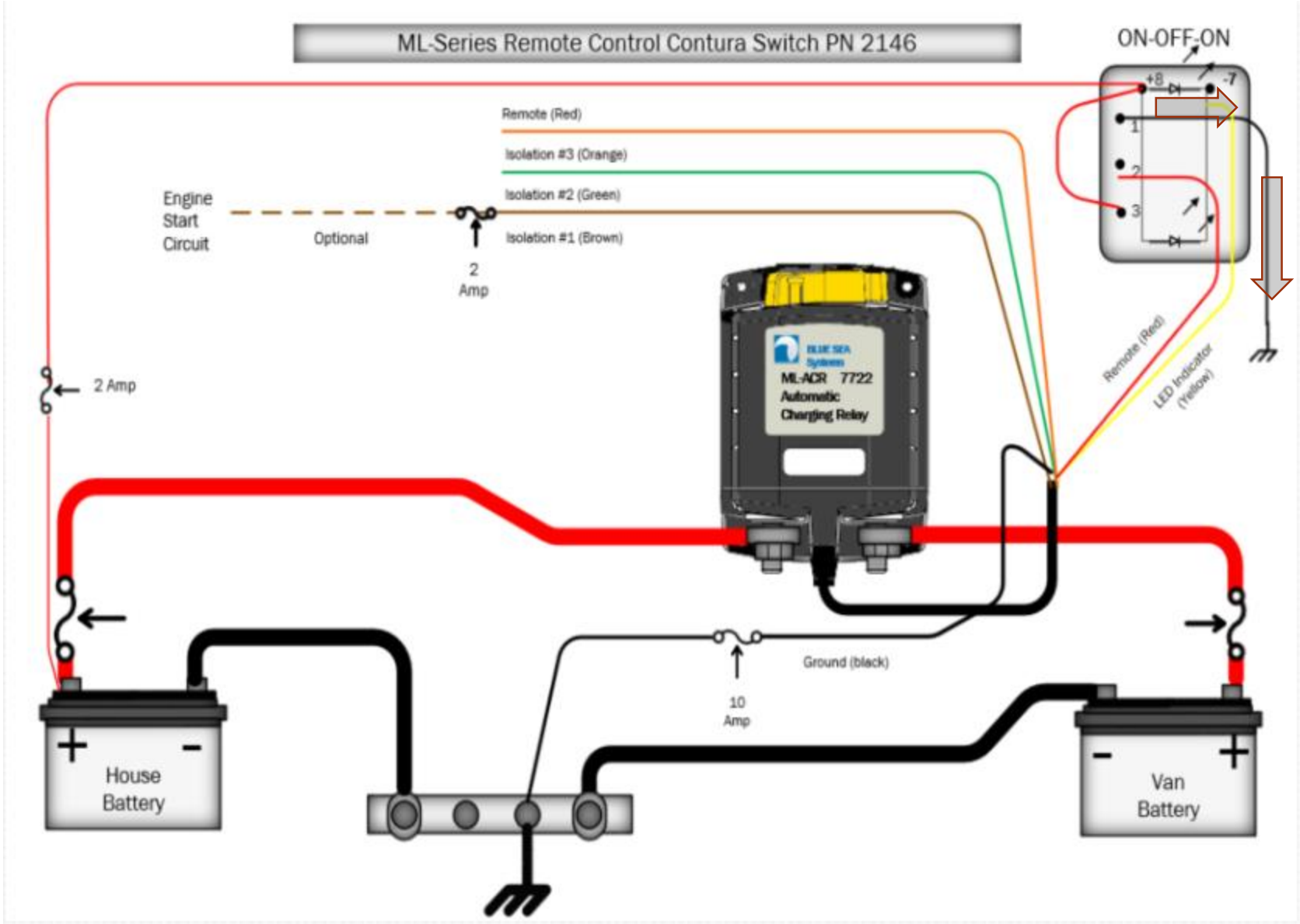

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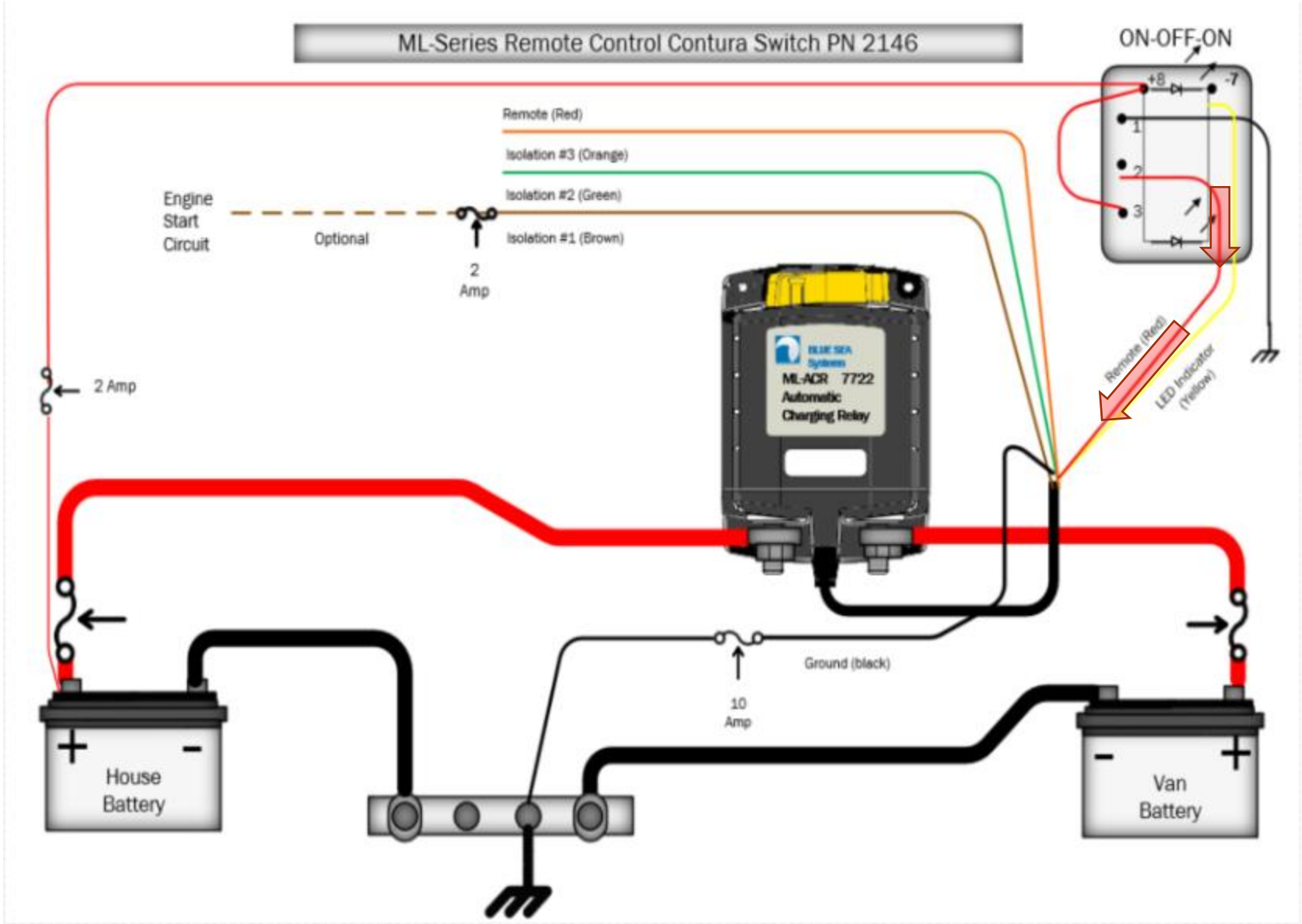

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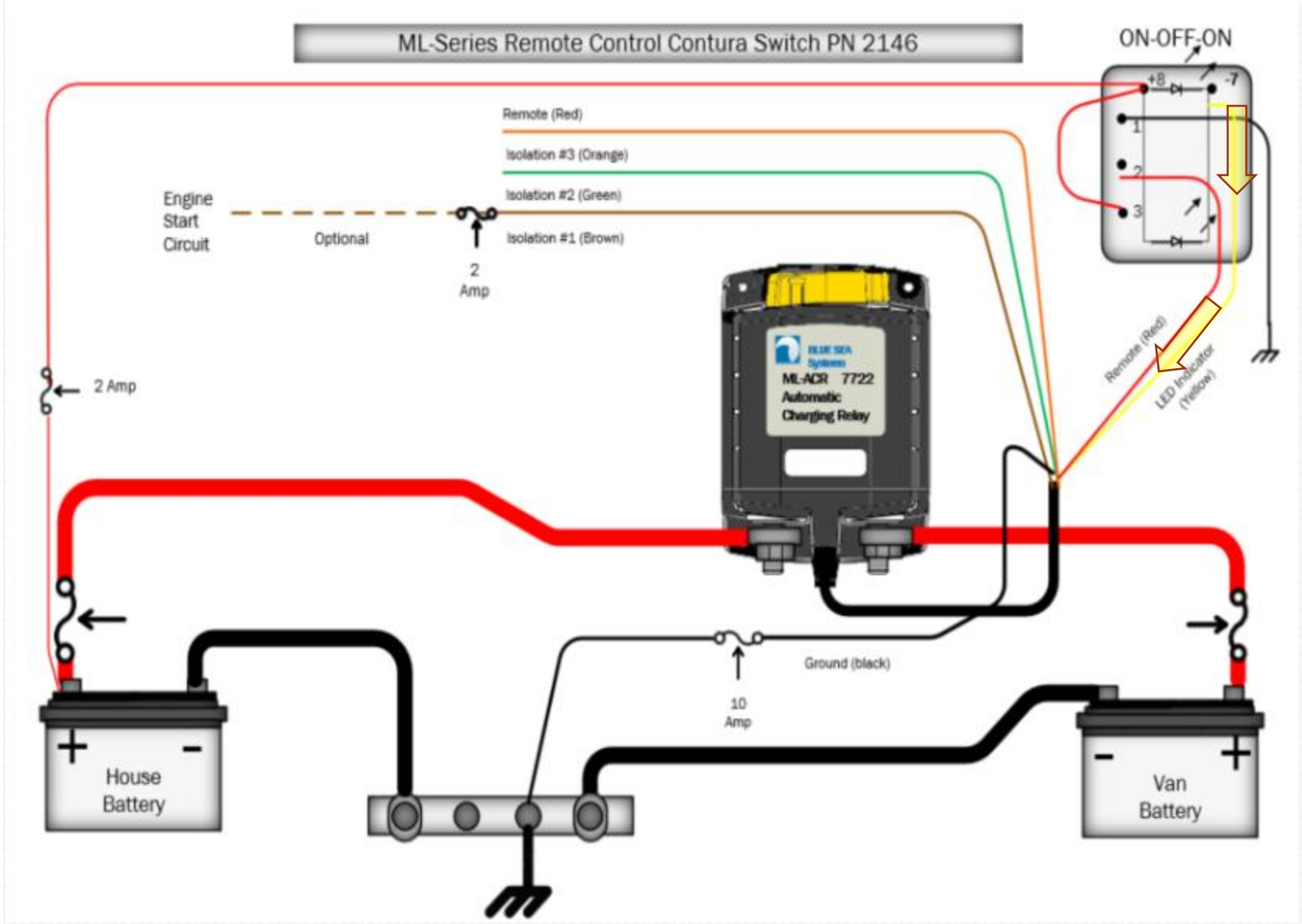

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