



**EV WEST**

# How To Guide

<b>SUBJECT:</b>  <b>Best practices for assembling a remote contactor box</b>	NUMBER: HTG-23-007
	DATE: March, 2023
	PRODUCT: Bud Industries

## PURPOSE

To provide general guidelines for assembling a remote contactor box.



Drilling the box compromises the water resistance. Box should be mounted higher up on the vehicle in a dry accessible area preferably near the HV battery.

## AFFECTED PRODUCTS

Bud Industries Inc. PN-1343-DG  
Other models similar



Bud Industries Electrical box

## PARTS LIST



Button head screws (preferred)

Assorted size fasteners. M4, M5 or #8, #10. 3/4" to 1 1/4" length



Locking nuts (preferred)



Gland nuts required 3/4" optional 1/2" Quantity will vary



Installed components will vary. Usually at least 1 contactor and a fuse rail

## RECOMMENDED TOOLS



Screwdriver with appropriate tip



Suitable wrench or socket to hold locknuts



Drill

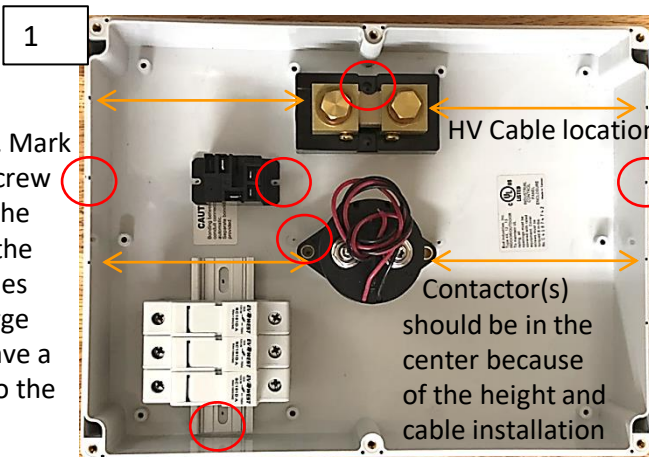


Step drill bit



Fine tip marker

## PROCEDURE



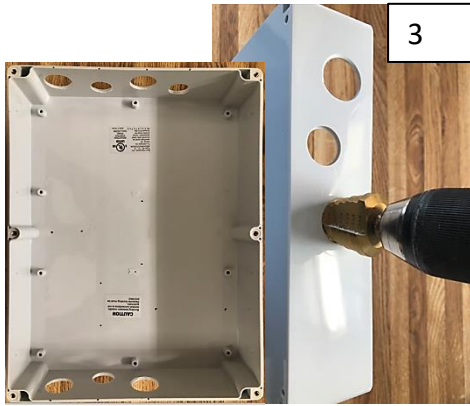
1  
This is a good **sample** layout. Mark all mounting screw locations and the exit point for the cables. Examples circled. The large cables must have a straight path to the component.

HV Cable locations

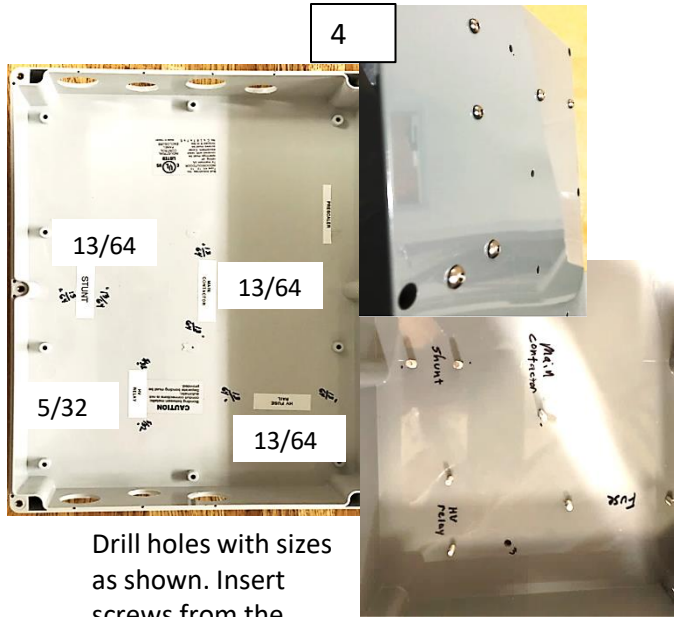
Contactor(s) should be in the center because of the height and cable installation



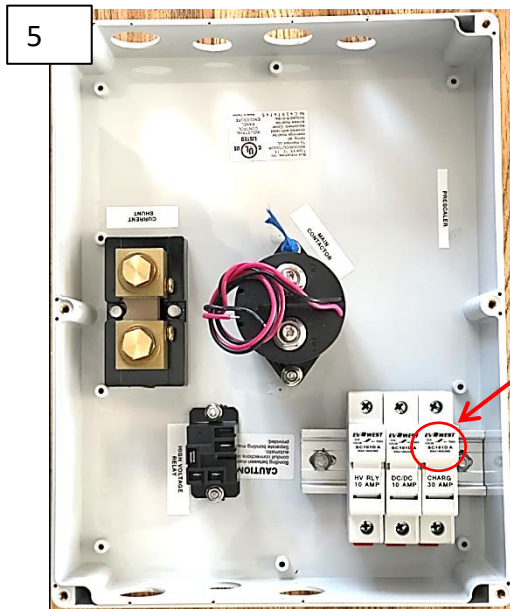
2  
Trace the location for the gland nuts. Large cables toward the top edge and small cables toward the bottom.



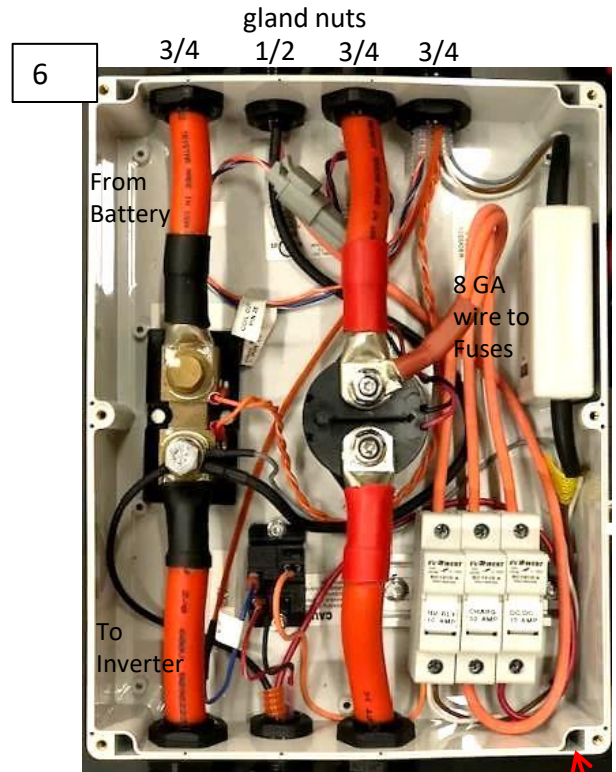
Use the step bit to drill holes for the gland nuts. Check your progress with the male threads. The upper holes for 2/0 cable will use 3/4 gland nuts. The lower holes for accessory cables may use 1/2 or 3/4 gland nuts.



Drill holes with sizes as shown. Insert screws from the outside.



Install components. Locknuts or a drop of Loctite recommended. Note the direction of the fuse holders. Voltage "in" is on the handle side, to help ensure fuse is not live when removing.



Example view of a wired box. Note your box may be different. General reference only.

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