

Introduction / Comments:
Install All Inverters Ram Promaster

Note:

Read all instructions prior to installation. Review the Adrian Steel **GENERAL PRECAUTIONS PAGES (56638)** before attempting installation. Only personnel familiar with using electrical best practices should perform this install. Reference **ELECTRICAL BEST PRACTICES MANUAL (54479)** before attempting installation.



62781
All Inverters Ram Promaster

700W Kit BOM

Seq#	Component	Description	Qty
2	FAS0018	SCREW,HFLNG 1/4-20X.62 ZP	4
1	FAS0025	SCREW,THP 10-24X.50 ZP	2
10	FAS0029	NUT,HEX NLK 10-24 ZP	2
3	FAS0055	NUT,HEX NLK FLG 1/4-20 ZP	4
11	FAS0148	SCREW,FHP TEK 10-24X.5 ZN	1
4	FAS0641	SCREW,HH TEK 1/4-20X.7 ZP	2
5	44918-B	BRKT, FUSE HLDR, F150	1
7	56904	INV TS12-700	1
6	6105169AA	NUT,M8,FUSE BOX,SPR	1
9	62781	INS INV ALL INVS RAM PM	1
9	62831	KIT CBL 0.7KW PR	1

1.0KW Kit BOM

Seq#	Component	Description	Qty
2	FAS0018	SCREW,HFLNG 1/4-20X.62 ZP	4
1	FAS0025	SCREW,THP 10-24X.50 ZP	2
10	FAS0029	NUT,HEX NLK 10-24 ZP	2
3	FAS0055	NUT,HEX NLK FLG 1/4-20 ZP	4
11	FAS0148	SCREW,FHP TEK 10-24X.5 ZN	1
4	FAS0641	SCREW,HH TEK 1/4-20X.7 ZP	2
5	44918-B	BRKT, FUSE HLDR, F150	1
6	56903	INV TS12-1000	1
7	6105169AA	NUT,M8,FUSE BOX,SPR	1
8	62781	INS INV ALL INVS RAM PM	1
9	62832	KIT CBL 1.0KW PR	1

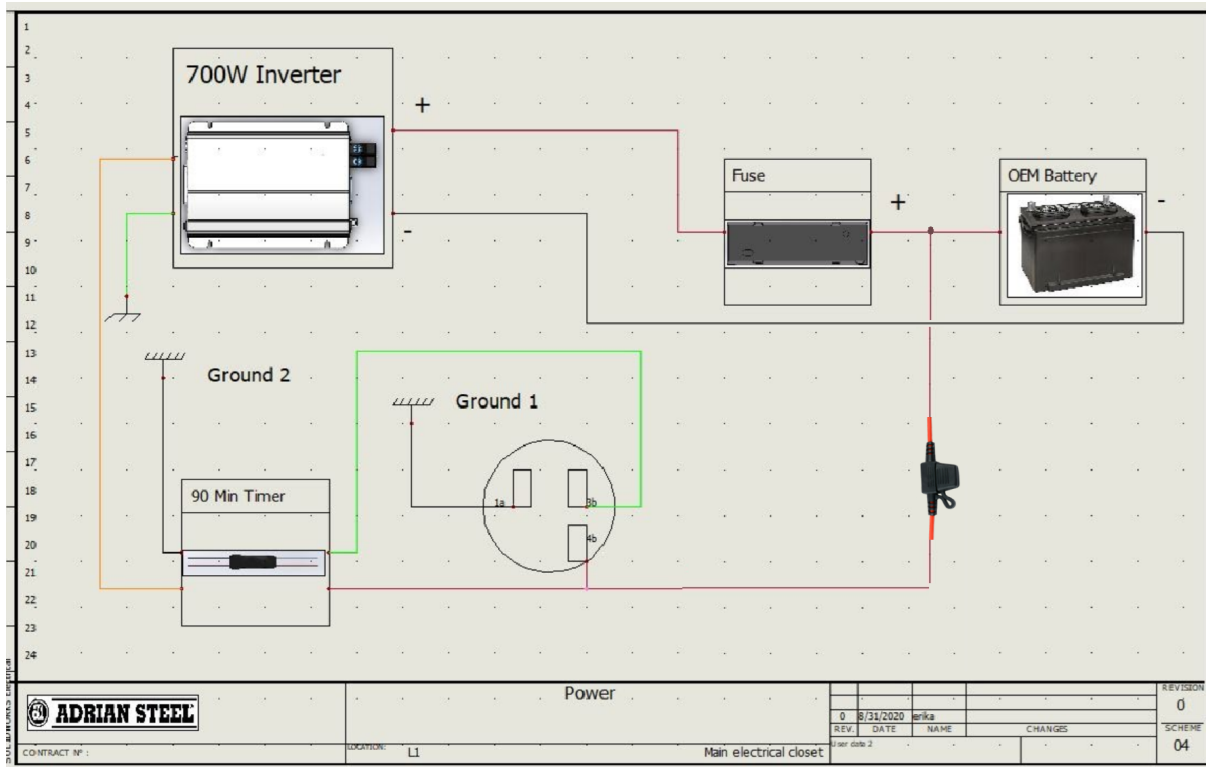
1.5KW Kit BOM

Seq#	Component	Description	Qty
7	FAS0018	SCREW,HFLNG 1/4-20X.62 ZP	4
9	FAS0025	SCREW,THP 10-24X.50 ZP	6
15	FAS0029	NUT,HEX NLK 10-24 ZP	6
14	FAS0048	SCREW,BHCS 5/16-18X2.0 ZN	4
8	FAS0055	NUT,HEX NLK FLG 1/4-20 ZP	4
13	FAS0091	PLUSNUT,5/16-18 PB DC	4
16	FAS0148	SCREW,FHP TEK 10-24X.5 ZN	1
4	FAS0641	SCREW,HH TEK 1/4-20X.7 ZP	2
12	FAS0833	WASHER,CUP FLANGED 1.5"	4
11	03927-1	SPACER,FLR,1010,11/32 ZP	4
10	38352	BATTERY,AGM 92AH 12 VDC	1
5	44918-B	BRKT, FUSE HLDR, F150	1
6	56906	INV TS12-1500	1
3	6105169AA	NUT,M8,FUSE BOX,SPR	1
1	62781	INS INV ALL INVS RAM PM	1
2	62833	KIT CBL 1.5KW 1AUX PR	1

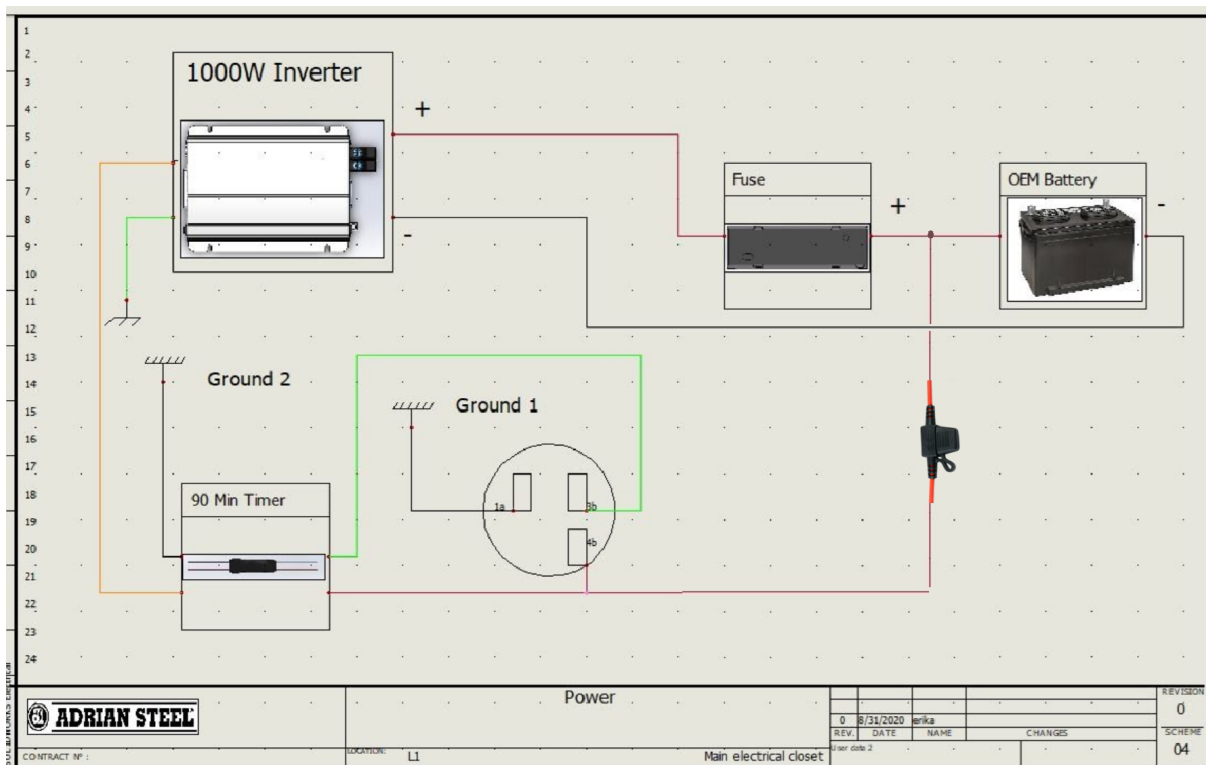
2.0KW Kit BOM

Seq#	Component	Description	Qty
1	FAS0018	SCREW,HFLNG 1/4-20X.62 ZP	4
4	FAS0025	SCREW,THP 10-24X.50 ZP	6
15	FAS0029	NUT,HEX NLK 10-24 ZP	6
2	FAS0048	SCREW,BHCS 5/16-18X2.0 ZN	8
3	FAS0055	NUT,HEX NLK FLG 1/4-20 ZP	4
5	FAS0091	PLUSNUT,5/16-18 PB DC	8
16	FAS0148	SCREW,FHP TEK 10-24X.5 ZN	1
6	FAS0641	SCREW,HH TEK 1/4-20X.7 ZP	2
7	FAS0833	WASHER,CUP FLANGED 1.5"	8
8	03927-1	SPACER,FLR,1010,11/32 ZP	8
9	38352	BATTERY,AGM 92AH 12 VDC	2
10	44918-B	BRKT, FUSE HLDR, F150	1
11	56905	INV TS12-2000	1
12	6105169AA	NUT,M8,FUSE BOX,SPR	1
13	62781	INS INV ALL INVS RAM PM	1
14	62834	KIT CBL 2.0KW 2AUX PR	1

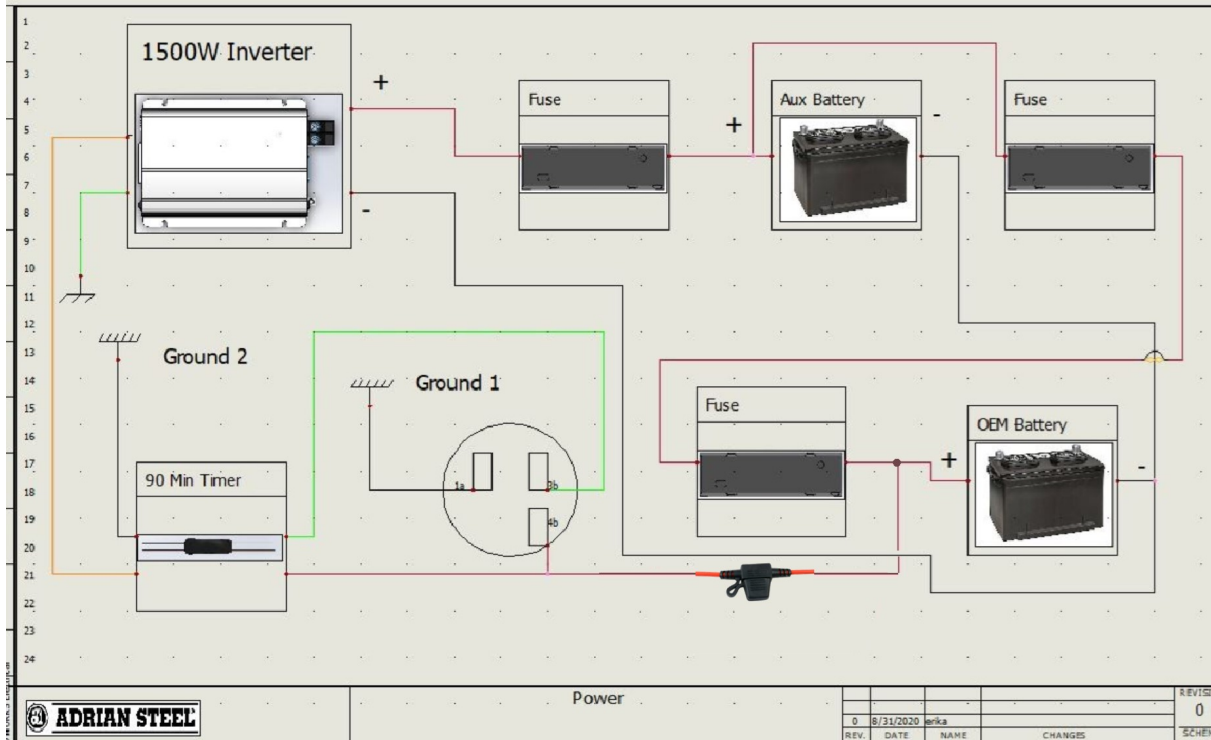
700W Kit Diagram



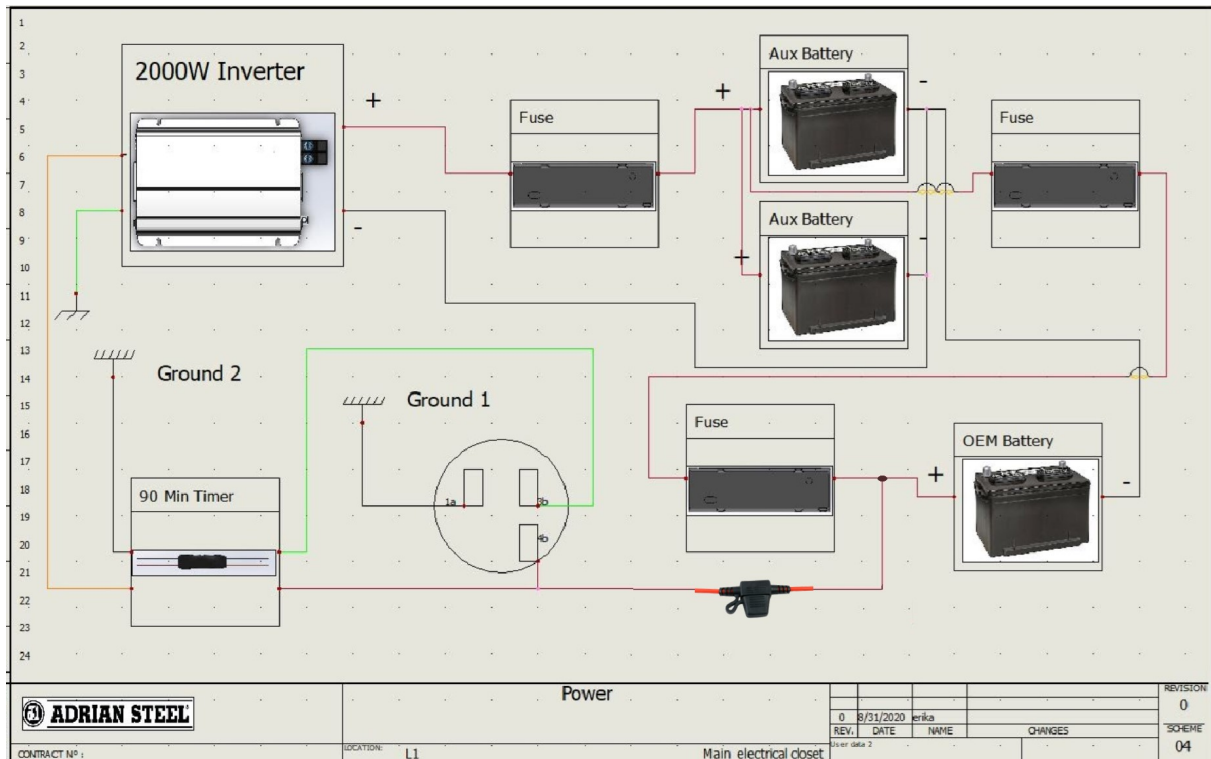
1000W Kit Diagram



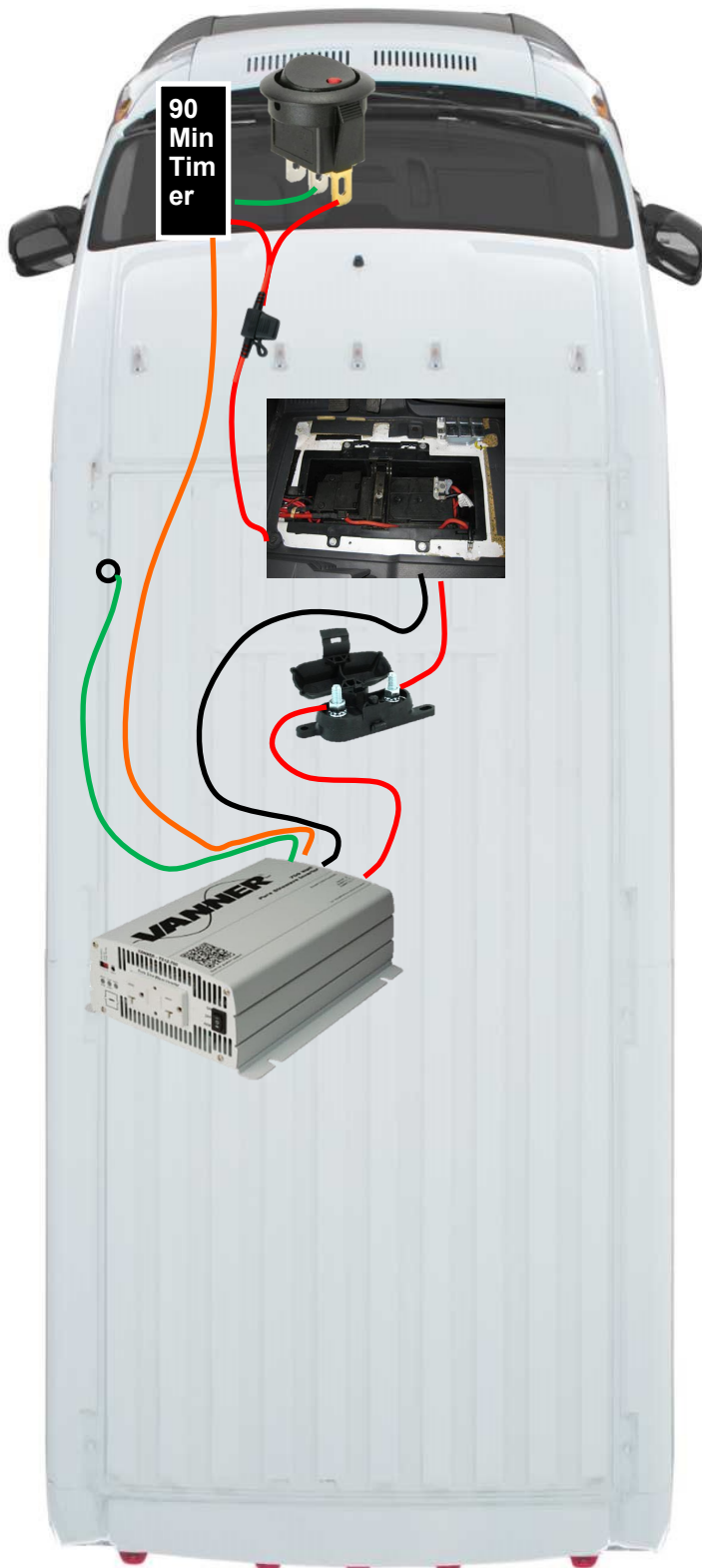
1500W Kit Diagram



2000W Kit Diagram



Rough Placement Schematic

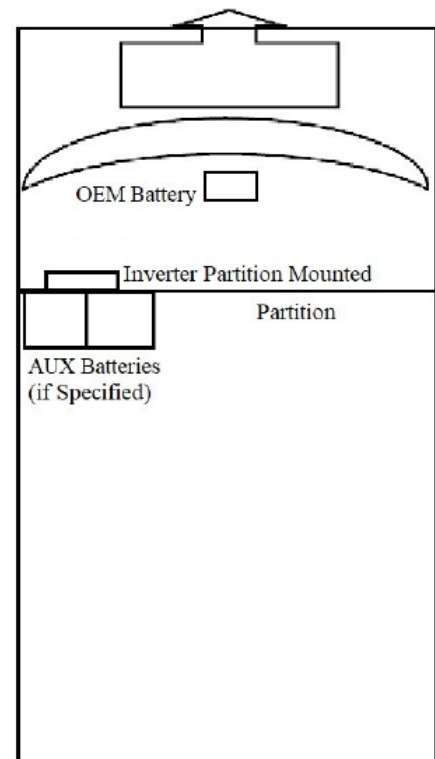


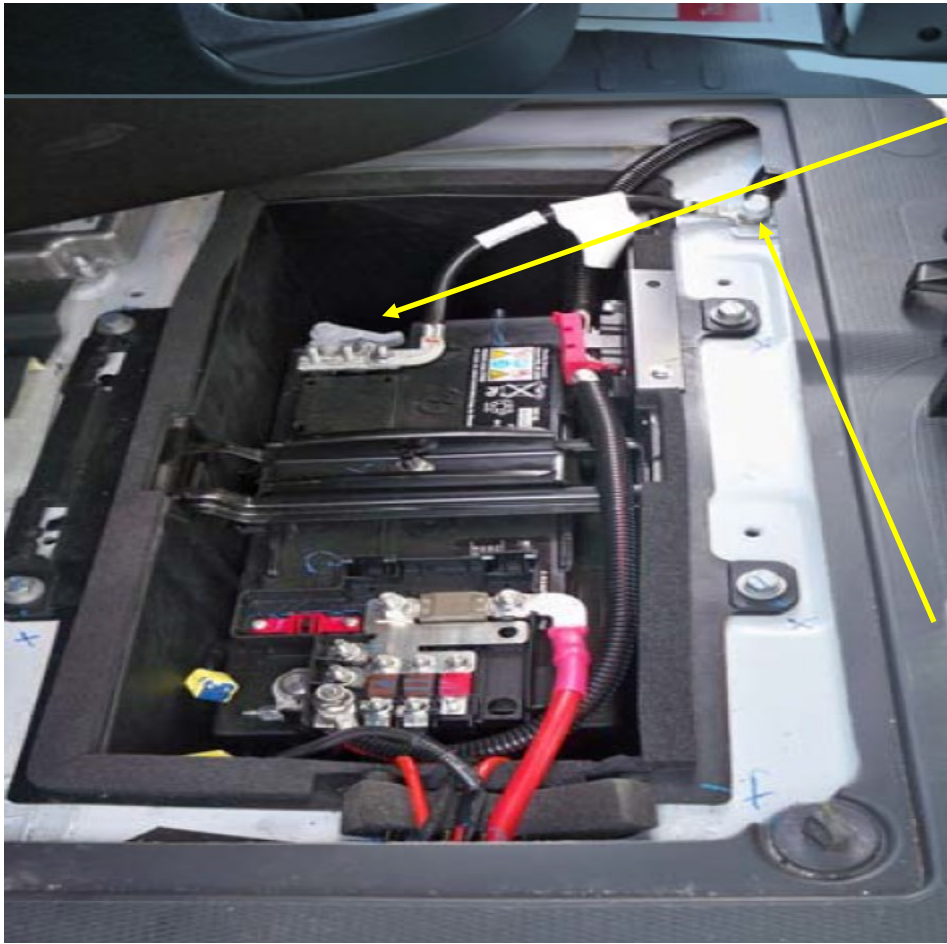
NOTE: This diagram is intended for reference with Single OEM battery configurations.

NOTE: The placement of the components in this diagram is approximate and is intended to convey overall system arrangement ONLY

NOTE: This diagram does not detail vehicle ground for the timer circuit.

Battery Position:





STEP 1 :

Disconnect the negative battery cable.

STEP 2 :

Attach one end of the long black cable to the factory ground bolt shown.

Tighten to 12 N·m (106 in. lbs.).



STEP 3 :

Attach the fuse holder to the bracket use fasteners FAS0029 and FAS0025 The holder will be on the face shown with the screws going through the bracket then the holder to ensure clearance when attached into the battery box

STEP 4 :

Mount the bracket / holder assembly in the location pictured using the supplied tek screws FAS0682



STEP 5 :

Attach one end of the short red cable to the post marked using the supplied nut 6105169AA
Tighten the nut (1) to 6 N·m (53 in. lbs.).

Route the cable to the fuse as shown **DO NOT INSTALL THE FUSE**



STEP 6 :

Attach one end of the long red cable to the fuse as seen in the top photo. It may be necessary to loop the cable into the battery box then back up to the fuse. **DO NOT INSTALL THE FUSE.**



STEP 7 :

Remove the center trim panel torx screws shown.

STEP 8 :

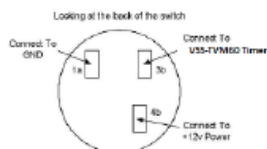
Drill a 13/16" hole in the location shown. Mount the switch and install the label.

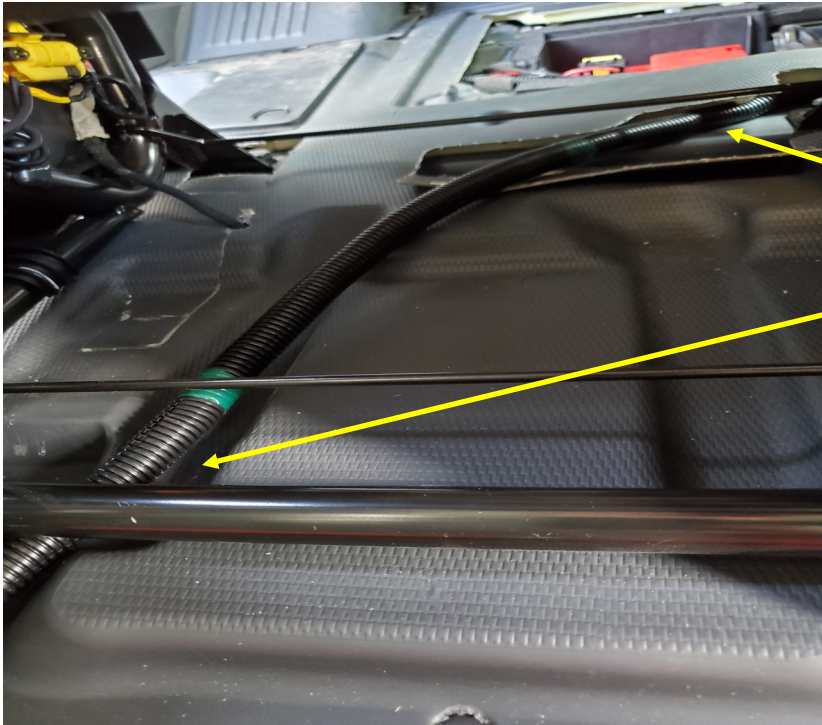
STEP 9 :

Attach the timer harness to the switch as per the diagram.

Attach the red lead to an existing stud on the positive battery junction.

Attach the black lead to an existing stud on the negative battery cable.





STEP 10 :

Route the loose ends of both long cables and the orange lead from the timer under the flooring near the front edge of the drivers seat. Route out of the opening shown follow the groove in the floor as pictured. Use the supplied cable ties to attach to the seat base at the street side back corner.

Continue back to the partition.



STEP 11 :

Standard inverter placement is behind the drivers seat. Check order drawing to verify.

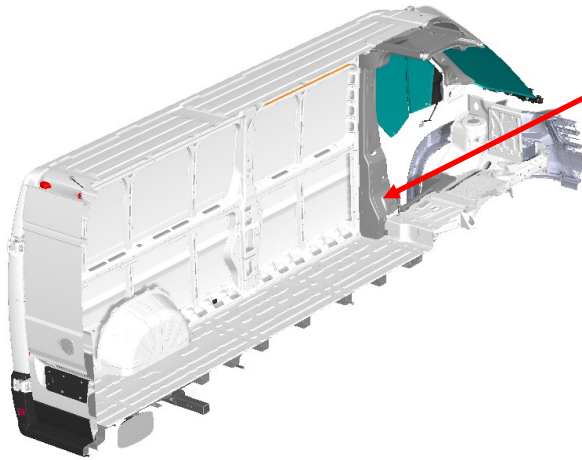
If the partition has no mounting holes use the inverter as a template to drill.

Mount the inverter using fasteners FAS0018, FAS0055.

It may be necessary to make the cable connections prior to mounting.

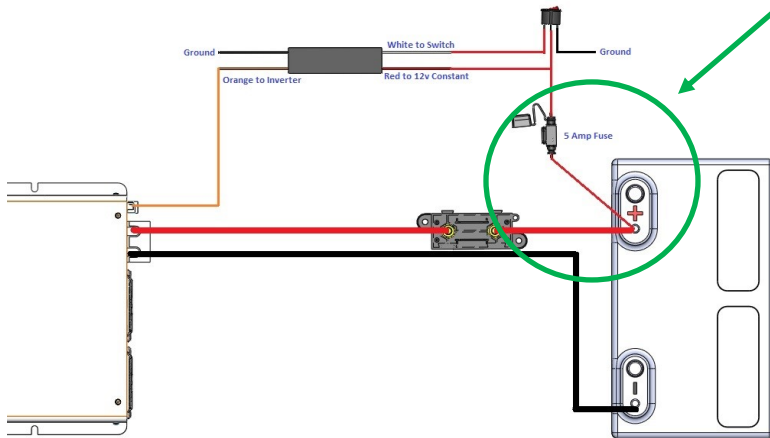
Attach the orange wire to the terminal on the inverter marked with a 1.

Attach the green wire to the chassis ground terminal.



STEP 12 :

Attach the end of the chassis ground lead to the lower portion of the B pillar using supplied Tek screw FAS0682.

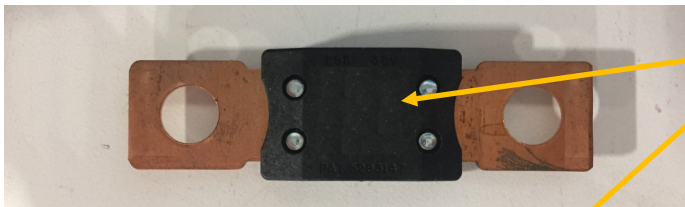


Step 13:

Connect the timer circuit to the battery by running the fused lead back to the an available post on the OEM battery.

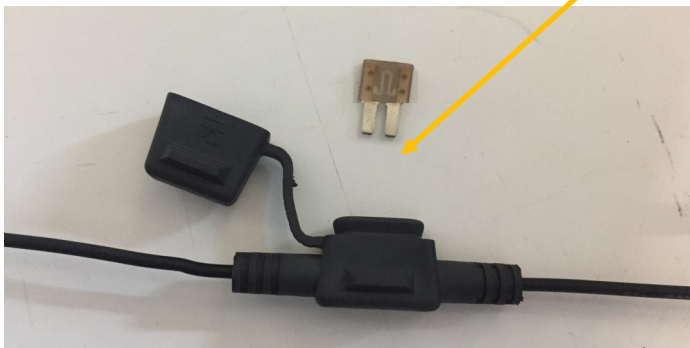
Step 14:

Reconnect the OEM negative battery cable and tighten to 8Nm



Step 15:

Install all fuses and tighten any nuts to 15Nm.

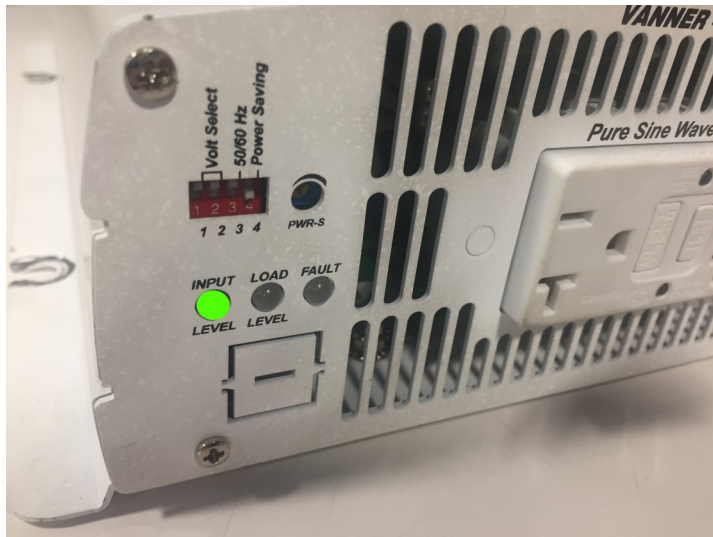


Install Power strips based on order drawing if included.



Step 15:

Using the supplied cable ties make sure all wiring is secured and clear of sharp objects, moving parts, and heat sources. Install all trim removed in previous steps
Install battery covers on OEM and AUX batteries (if applicable).
Turn off dash switch for transportation and leave the inverter switch in REM.



Step 16:

Verify Inverter Powers Up
Turn on the switch on the Inverter case to REM (remote).
Turn on switch in the dash.
Start the engine and verify the DC input LED on the inverter turns green.



Step 17:

Test the Inverter Output. Plug in any accessories such as power strips included with the kit.