

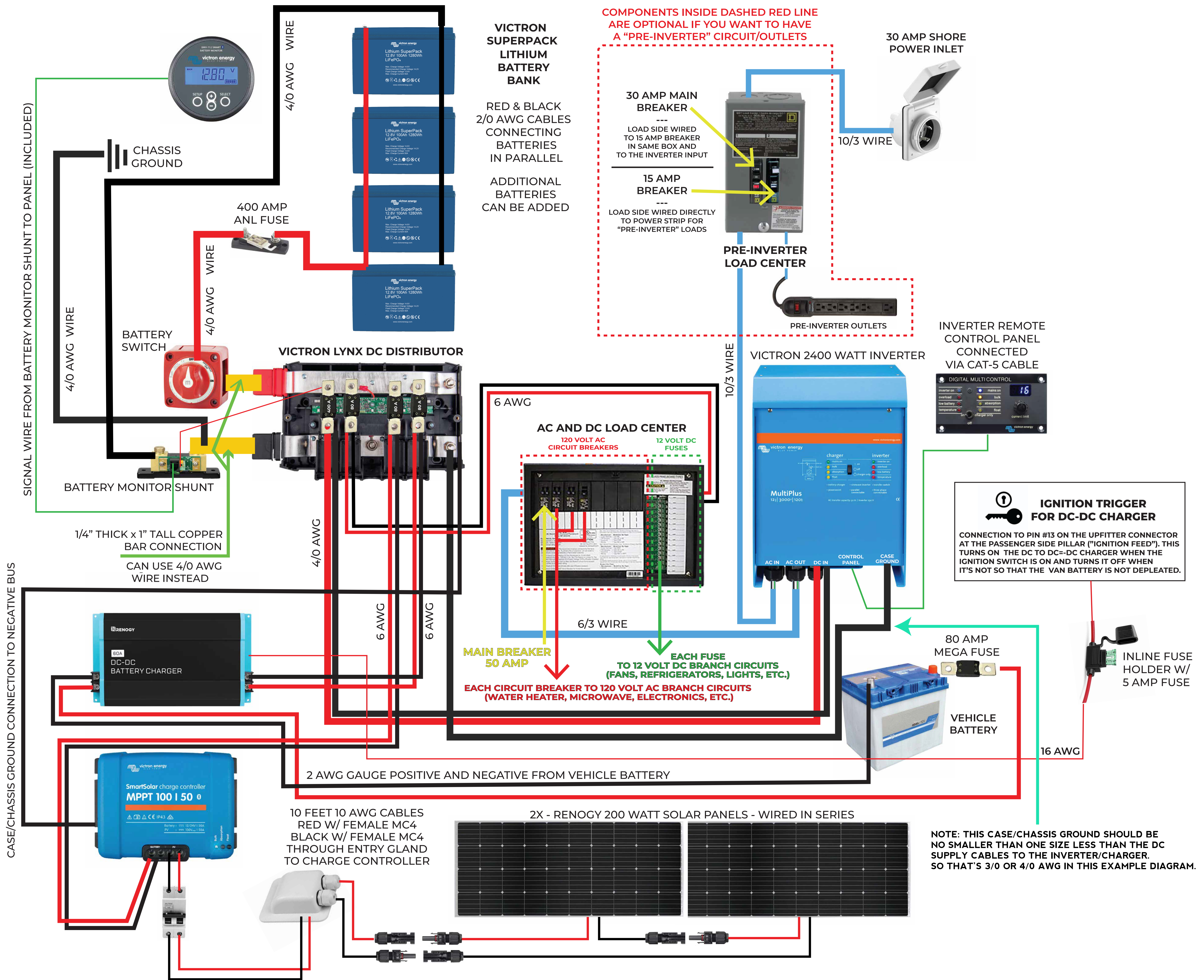


**VANLIFE**  
OUTFITTERS

**VICTRON + RENOGY CAMPER VAN ELECTRICAL SYSTEM**

400 AMP HOUR LITHIUM BATTERY STORAGE // 400 WATTS SOLAR PANELS (ONLY 2X PANELS)  
60 AMP ALTERNATOR CHARGING (DC-DC CHARGER) // 2400 WATT INVERTER/120 AMP SHORE POWER CHARGING  
VERSION 6.0 - JUNE 2021

THIS IS NOT ELECTRICAL ADVISE.  
THIS IS AN ILLUSTRATION OF ELECTRICAL SYSTEMS THAT WE HAVE USED IN OUR VANS.  
ALWAYS DO YOUR OWN RESEARCH AND USE THIS INFORMATION AT YOUR OWN RISK.



**VICTRON SUPERPACK LITHIUM BATTERY BANK**

RED & BLACK 2/0 AWG CABLES CONNECTING BATTERIES IN PARALLEL

ADDITIONAL BATTERIES CAN BE ADDED

COMPONENTS INSIDE DASHED RED LINE ARE OPTIONAL IF YOU WANT TO HAVE A "PRE-INVERTER" CIRCUIT/OUTLETS

**30 AMP MAIN BREAKER**

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LOAD SIDE WIRED TO 15 AMP BREAKER IN SAME BOX AND TO THE INVERTER INPUT

**15 AMP BREAKER**

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LOAD SIDE WIRED DIRECTLY TO POWER STRIP FOR "PRE-INVERTER" LOADS

**PRE-INVERTER LOAD CENTER**

PRE-INVERTER OUTLETS

**VICTRON 2400 WATT INVERTER**

INVERTER REMOTE CONTROL PANEL CONNECTED VIA CAT-5 CABLE



**AC AND DC LOAD CENTER**

120 VOLT AC CIRCUIT BREAKERS      12 VOLT DC FUSES

**MAIN BREAKER 50 AMP**

EACH CIRCUIT BREAKER TO 120 VOLT AC BRANCH CIRCUITS (WATER HEATER, MICROWAVE, ELECTRONICS, ETC.)

EACH FUSE TO 12 VOLT DC BRANCH CIRCUITS (FANS, REFRIGERATORS, LIGHTS, ETC.)



**IGNITION TRIGGER FOR DC-DC CHARGER**

CONNECTION TO PIN #13 ON THE UPFITTER CONNECTOR AT THE PASSENGER SIDE PILLAR ("IGNITION FEED"). THIS TURNS ON THE DC TO DC-DC CHARGER WHEN THE IGNITION SWITCH IS ON AND TURNS IT OFF WHEN IT'S NOT SO THAT THE VAN BATTERY IS NOT DEPLETED.

**80 AMP MEGA FUSE**

**VEHICLE BATTERY**

INLINE FUSE HOLDER W/ 5 AMP FUSE

10 FEET 10 AWG CABLES RED W/ FEMALE MC4 BLACK W/ FEMALE MC4 THROUGH ENTRY GLAND TO CHARGE CONTROLLER

2X - RENOGY 200 WATT SOLAR PANELS - WIRED IN SERIES

NOTE: THIS CASE/CHASSIS GROUND SHOULD BE NO SMALLER THAN ONE SIZE LESS THAN THE DC SUPPLY CABLES TO THE INVERTER/CHARGER. SO THAT'S 3/0 OR 4/0 AWG IN THIS EXAMPLE DIAGRAM.