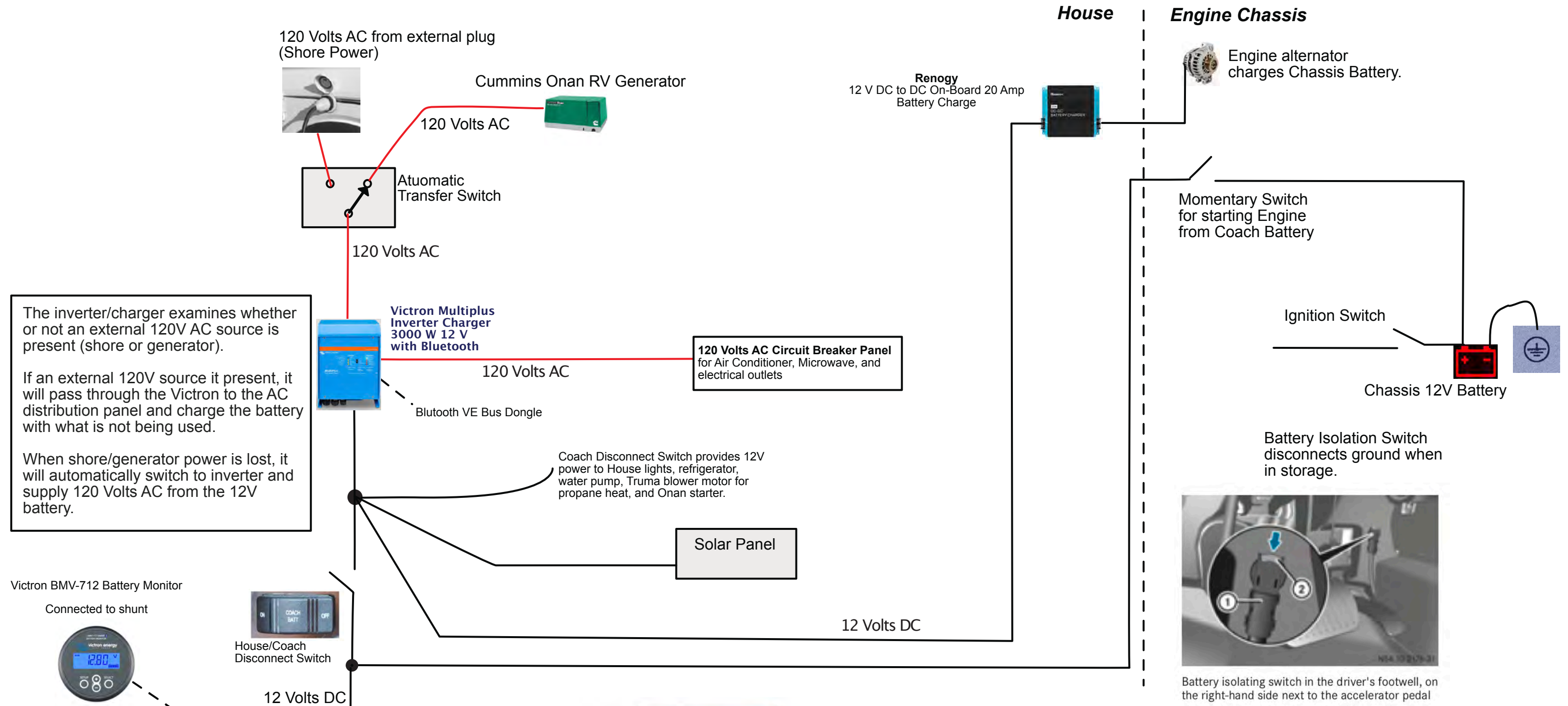


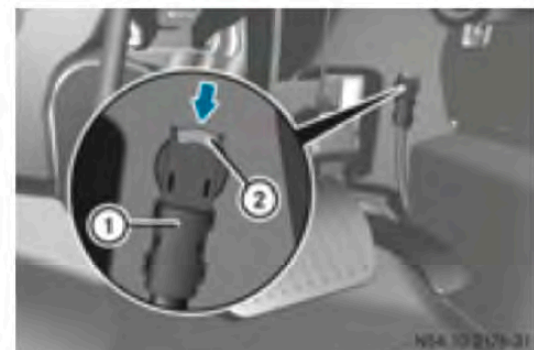
**This is a Block Diagram
Not all wires are shown**

Coach batteries operate the Coach 12-volt system independent of the Chassis battery.



The inverter/charger examines whether or not an external 120V AC source is present (shore or generator).
If an external 120V source is present, it will pass through the Victron to the AC distribution panel and charge the battery with what is not being used.
When shore/generator power is lost, it will automatically switch to inverter and supply 120 Volts AC from the 12V battery.

Coach Disconnect Switch provides 12V power to House lights, refrigerator, water pump, Truma blower motor for propane heat, and Onan starter.



Battery isolating switch in the driver's footwell, on the right-hand side next to the accelerator pedal



House/Coach Battery Disconnect Switch
• Model 70A - Located on front side of galley.
• Model 70C - Located on lower front of galley.
• Model 70X - Located near monitor panel.

Close (ON) switch when van is in use.
Open (Off) switch when van is stored to prevent accidental discharge of Battery.



All battery cables 1/0

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3.00	BB10012 - Battle Born 12V 100Ah	899.00	2,697.00
1.00	PMP123021102 - Multiplus 12/3000/120-50 120v VE Bus	1,150.00	1,150.00
1.00	ASS030537010 - VE.Bus Smart dongle	65.00	65.00
1.00	BAM030712000 - Victron BMV-712 Battery Monitor	185.00	185.00
1.00	ANL300KIT - 300A ANL Fuse + Fuse Holder	30.00	30.00
SUBTOTAL			USD 4,127.00

Proposed Van Electrical System

Objective:
Provide all AC and DC power from batteries when parked.
Avoid running the noisy Onan generator.
Have enough battery power to run 1200 Watt air conditioning at night.
No need to run Onan for AC appliances such as microwave.

How to achieve objective:
Install three Lithium Ion Batteries to provide 3600 watt hours.
Install Inverter for house AC Power.
Shore power and Onan only used to charge batteries.