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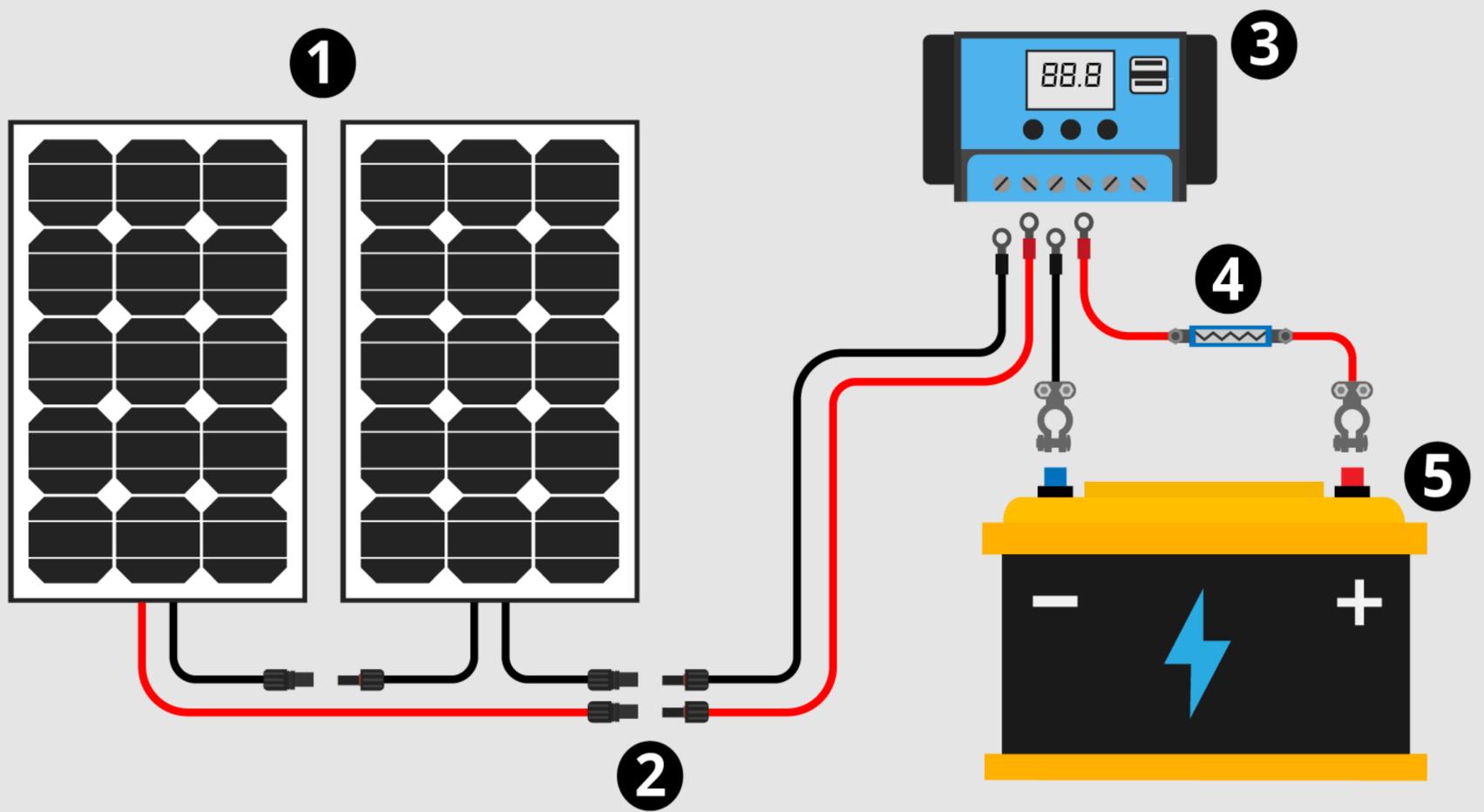
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So stay tuned, up next we're installing the wood slats and T-slot system Specs and MaterialsHome Depot for Bulk Wire, boxes and GFCI outletsLight Harvest Solar for various fuses and fittings and the Cotek SD2500 InverterCotek Inverter remote controlRecessed warm color dimmable LED light pucksLED dimmable SwitchProgressive Dynamics Mighty Mini PD4045LIKA Lithium Ion Charger ConverterKnacro digital temperature controller for auto fan controlRenogy Solar charge controller temperature sensorBetooll 10 ton hydraulic wire crimperDual Wall Adhesive marine heat shrinkPremium Gaffer tape100 watt solar panels from RenogyMPPT solar charge controller, also from RenogyMT-50 Tracer Solar MeterDream Lighting RV LED Recessed Down Light 2W Warm White Black Shell Pack of 6KNACRO 20-90°C Digital Temperature Controller Heating Cooling Thermostat Switch DC 12VIn HindsightThe battery power monitor on the MT-50 is pretty poor at best.. We still had much to figure out and plan for the electrical system—but installing the track and cladding would have been an easy win.. Cool stuff We strongly considered a system and beautiful breaker panel box from BlueSea Systems.. But, we ended up sending one back after changing the layout of the roof rack We also opted for a nicer MPPT solar charge controller to get the most efficiency from the solar panels.. Our Sprinter van electrical system goals:Sprinter Van Solar PanelsWhen choosing Sprinter van solar panels we had to consider a handicap: We would likely try to park in the shade during the hot summer months.

We consciously paid for less weight, less size, and more power output Pay to play right?Batteryuniversity.. But considering a 50% max discharge requirement, the 4 x 100ah battery bank would be quite heavy at over 200 lbs and also take up a ton of room.

electrical systems

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com and batterystuff.com are both good resources for nerding-out on battery technology if you need some more details.. We also planned to finish the conversion project, powering saws and tools right from the van itself.

electrical systems air force

After the battery was connected to the inverter, and the solar to the battery, we began the running the massive amount of wiring throughout the cab of the van.. I would have purchased locally Renogy's options, albeit good stuff, are a bit limited due to being designed in size to allow for UPS shipping.

electrical systems engineer

AKA, buy extra wire and crimps To wire up the big power inverter safely to the battery, we ran 1 AWG cable with fuses.. We went this route for a few reasons:Plenty of clean power for electronics at a good price.. If you don't have enough, suck it up and go to the store and get more!The wiring is tucked out of the way through the right side 'C' pillar, it's centrally located in the van, and there is a power control panel that everything can be controlled from.. We needed to bring power to these components—and fight the temptation to install the track system and CVG Douglas Fir cladding.. We added a system monitor to keep track of the battery and solar system status at all times.. Highly recommended: Ability to monitor your power system We used an MT-50 Tracer Meter. e10c415e6f