



— 16 Ga  
 — 10 Ga  
 — 4/0 Ga

ElectroJeep  
 High-Voltage Wiring  
 v1.2 Jun 7, 2009  
 Ross Cunniff

Parts list:

AC55	AC55 3-phase AC motor from Azure Dynamics
DMOC	DMOC445 AC controller from Azure Dynamics
DC-DC	DCDC 750 BC12 DC to DC (200-400V; for use with 12V aux battery) from Azure
Htr	2x 400V, 1000W ceramic heaters from Mor Electric
Ctctr	Tyco Kilovac 500A 320V LEV200 Contactor (overkill...)
400A	2x Ferraz-Shawmut A50QS400-4 500VDC 400A fuses from evsource
30A	Littelfuse KLKD030 600VDC 30A fuse from onlinecomponents
1.5A	Littelfuse KLKD01.5 600VDC 1.5A fuse from onlinecomponents
50 mV	Westach 237-150 150A 50mV shunt from westach.com
V	Westach 2C5-84 200-400VDC voltmeter from westach.com
A	Westach 2C6-14 -150-0-+150A DC ammeter from westach.com
Charger	Manzanita Micro PFC-20 110-240V 20A battery charger
12V, 96V...	Battery packs built from 12V Concorde Chairman AGM-1280T batteries

High-current wiring is 4/0 gauge welding cable

Medium-current wiring (charger, DC-DC converter) is 10 AWG primary wire

All other wiring is 16 AWG primary wire

High-current connectors  are Cam-Lok400A 600VDC connectors from lightsonretail - NOT INTENDED FOR DISCONNECTING WITH LOAD APPLIED

Medium-current connectors  are either Anderson SB-50 (charger) or Yazaki 2-pin (P/N 7222-4220-30) (DC-DC converter)