12V System

Power Forward Reverse Foot Switch (Regen) Seat Switch Digital 1 Digital 2 Line Contactor (24V Chopper) Aux Contactor (Refer to section 6.2) Analog Input (0V-5V) Analog Input (Throttle, 3.5V-0V) +12V Out

Control System

A1 & A2 4 gauge F1 & G2 10 Gauge control wires 18-22 gauge CCW rotation shown drive end (left hand drive)

Key switch turns on controller Controller turns on contactor Enable Switch turns on Fwd Drive SPD7 Momentary Switch for reverse

Start Sequence: Key on Enable Switch on

Off Sequence: Enable Switch off Key Switch off

Battery Gauge / Warning

Drives 10 leds as battery gauge. 555 turns on low batt warning at -1/3. Light stays on until voltage returns to -2/3.

Amp Gauge / Regen

Drives 2 led arrays. One for amps from battery, other to show regen amps to battery. Hall effect current sensor input.