

Parts List for 1986 Nissan Pickup Truck Conversion

Powertrain

- (1) DC motor; Advanced DC model FB1-4001A (9").
- (1) DC electronic controller system; Curtis model 1231C-8601.
- (1) Throttle control; Curtis PB-6 Pot Box.

Traction Battery Pack

- (20) AGM Deep Cycle Lead Acid batteries, advanced sealed type; Discover Energy model EVGH6A.
- Approximately 50' of 2/0 welding cable, for traction battery connections.
- Approximately 75 Cable lugs for 2/0 cable; straight, 45°, 90° down, 90° right side and 90° left side lugs. Made by QuickCable.
- Approximately 50 battery terminal protective covers; red and black.
- Approximately 10 feet of Heat Shrink Tubing for 2/0 cable in red and black.
- (1) Littlefuse model L25S-400 fuse and holder, rated 400 A / 200 Vdc.
- (2) power fuses and holders, rated 500 A.
- (2) Albright model SW-200-505 contactors.
- (1) Anderson connector; SB-50, rated 350A, 600V.
- (2) Contactor; Curtis Albright SW200-505.

Accessories

- (1) Gast vacuum pump; MOA-P125-JH.
- (1) Square D vacuum switch.
- (1) 10 feet roll of vacuum line, large enough to fit the original brake booster's inlet.
- (1) Ceramic heater from an electric space heater.
- (1) On-board battery charger for the traction batteries.
- (2) Adapter extension cables for input voltages (120 VAC or 220 VAC) to the battery charger.
- (1) DC/DC converter; Astrodyne SP-480.
- (1) 12 Vdc starter battery.
- (1) Outdoor rated electrical outlet cover (1) 12 Vdc indicator light, to connect to the over-heating warning sensor that is part of the electric motor.
- (1) Paddle switch with 12 Vdc light, for the ceramic heater.
- (1) Six position fuse holder for regular blade-type automotive fuses.
- (3-4) 12 Vdc automotive relays.
- Approximately 25' of 12 AWG wire and matching spade or ring terminals and heat shrink tubing.
- (1) Voltmeter; Westberg with a scale from 80 to 180 Vdc.
- (1) Ammeter; Westberg with a scale from 0 to 500 amperes.
- (1) Deltec 50 mV shunt for the ammeter.
- (1) Anderson connector; SBX-350, rated 50A, 600V.
- (1) Contactor; White-Rogers 120-105711.

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Mechanical, Hardware

(2) 4' by 8' sheets of 3/16" thick ABS plastic.

Approximately 100' of 1/4" thick, 2" by 2" angle iron, to make battery boxes.

(2) Helper springs to mount over the rear shock absorbers; 500 pounds/inch.

(1) wooden board to hold the motor controller, contactors, main fuse and other under-hood components – see "Control Board" article.

Approximately five feet of rolled rubber matting, four feet wide.

Approximately four feet of 1/8" thick, 3" wide strap iron. Used to make a motor support and control board supports.

(2) heavy door hinges and pieces of thick steel (as needed) to make the truck bed swing up.

Several Grade 8 bolts, nuts and washers to connect parts of the motor mount assembly, motor to the transmission, and other places as needed.

(1) 1/2" thick, custom drilled aluminum plate to mount the motor to the transmission. Requires other adapter pieces to work with it – see "Electric Motor to Transmission Mount" article.

(1) 1/8" thick aluminum plate, with a center hole and 12 Vdc fan, as a heat sink for the motor controller.

Approximately 3 feet long by 3 inches wide plastic window screen mesh.

Approximately 15 feet of 1-1/2" diameter tubing, to protect exposed battery cables.