

1551 S. Vineyard Avenue Ontario, CA 91761 (909) 923-1973

WIRING SCHEMATICS

FOR CURTIS 1239 "E" VERSION CONTROLLERS SOFTWARE VERSIONS 365.00 AND HIGHER 96 AND 144 VOLT DRIVE SYSTEMS

ON-ROAD VEHICLE CONVERSION FOR SINGLE OR DUAL MOTOR

APPLICATIONS

REVISION: A Date 10/26/15





(*1) Use supplied Contactor (GIGAVAC Part #GV200PA-1). Use only a Contactor WITHOUT PWM AND COIL SUPPRESSION. FAILURE TO DO SO CAN CAUSE CONTROLLER FAILURE AND WILL VOID WARRANTY.

(*2) Use supplied Pre-Charge Resistor and Relay (Tyco Electronics Part # T9AP1D52-12), For Coil connection, connect to small terminals.

(*3) Tachometers that are designed to work off of an ignition coil may not function properly in this application. Some tachometers may need a pull up resistor of 4.7K Ω to function

(*4) A Battery Management System (BMS) is strongly recommended if Lithium Ion batteries are used. Possible source of BMS is Ewert Energy System's ORION BMS (www.orionbms.com) (*5) A start switch is required if Idle or Creep Torque parameters are ENABLED. See

Programming Instructions. A start switch CAN be used without IDLE. See programming instructions

(*6) Install the Optional Clutch/ Shift Switch so that is ON when the clutch pedal is pressed. When clutch pedal is pressed the regen setting is changed to Shift Neutral Braking Parameter to prevent the motor from stalling during gear shifting. In a clutchless system, this allows you to set the coast down rate of the motor so that the gears align properly See Instructions on SHIFT-NEUTRAL BRAKING PARAMETERS.

(*7) White/Red wire not used with this version. (*8) Allows the use of ECONO Mode Parameters. See Programming Instructions.

(*9) Forward is CLOCKWISE motor rotation from Encoder end view. Depending on Transmission configuration, use either wire to obtain desired rotation. Use FWD & REV Switch in direct drive

(*11) Use Pack Fuse rated at 400A for Single controller applications. For Dual controller use

(*12) Only for dual motor applications. Use Controller Fuse rated at 400A for each controller.

Α

HPEVS

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THROTTLE CONFIGURATION

Depending on the type of throttle used for the application, the different types of throttle configurations are listed within the table below. Electrical schematics are also included within the following pages.

THROTTLE CONFIGURATION	ТҮРЕ
ELECTRONIC without SWITCH	TYPE 2
2 WIRE with SWITCH 0-5k Ω	TYPE 3
3 WIRE with SWITCH 0-5k Ω	TYPE 2 Default
CURTIS PB8 THROTTLE ASSEMBLY	TYPE 2









PEDAL INTERLOCK CONNECTION

The pedal interlock connection is required for both 2 and 3 wire throttle pot assemblies. The Green wire is connected to the Normally Closed tab. The red/blue wire is connected to the common tab. See picture below.

NOTE: when the accelerator pedal <u>IS PRESSED</u> the interlock switch is released to its <u>NORMAL</u> position (switch not activated) thus completing the circuit since its green wire is connected to the normally closed (NC) connection.



BRAKE INPUT CONFIGURATION

Depending on the type of brake input used for the application, the different types of brake input configurations are listed in the table below. Electrical schematics are also included within the following pages.

BRAKE INPUT CONFIGURATION	ТҮРЕ
NO BRAKE INPUT USED	TYPE 5 and Brake Input Enabled = OFF Default
PRESSURE TRANSDUCER/ ELECTRONIC 0-5V INPUT or 3-WIRE POT	TYPE 2
2 WIRE 0-5k Ω POT	TYPE 3



