

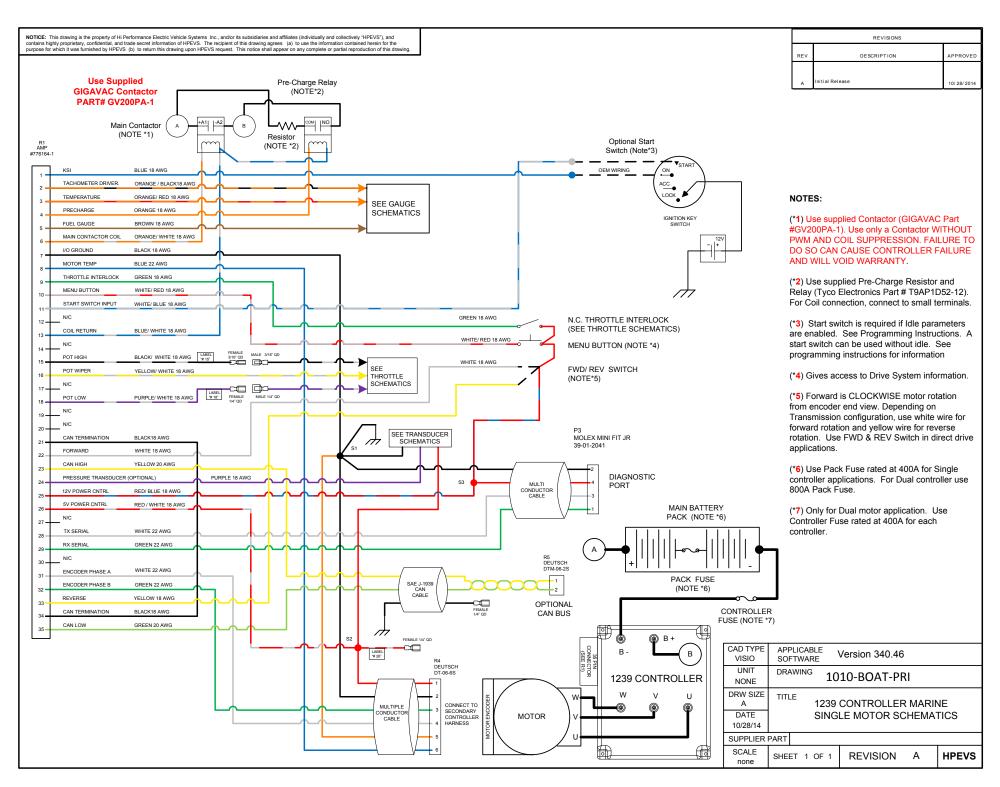
620 Magnolia Avenue Suite B Ontario, CA 91762 (909) 923-1973

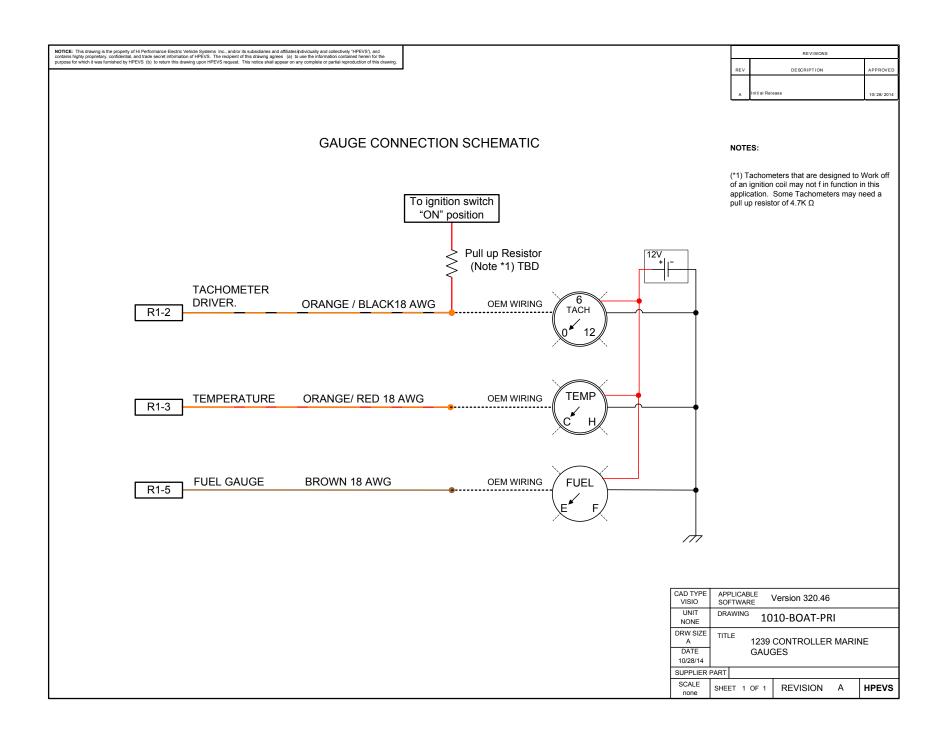
WIRING SCHEMATICS

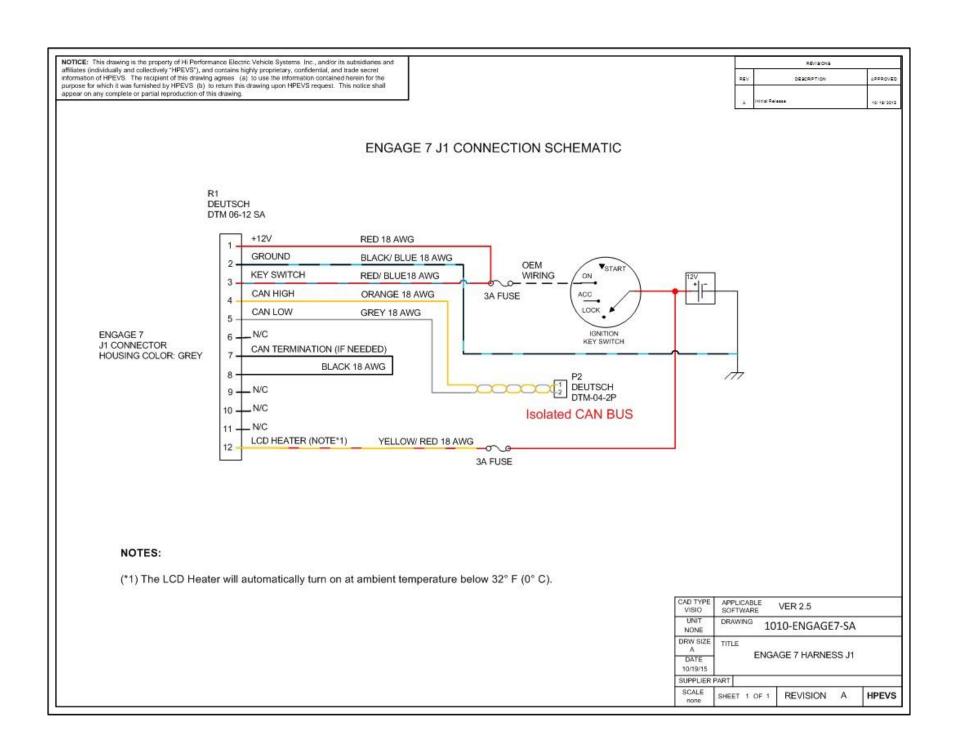
FOR SOFTWARE VERSIONS 320.46 AND HIGHER

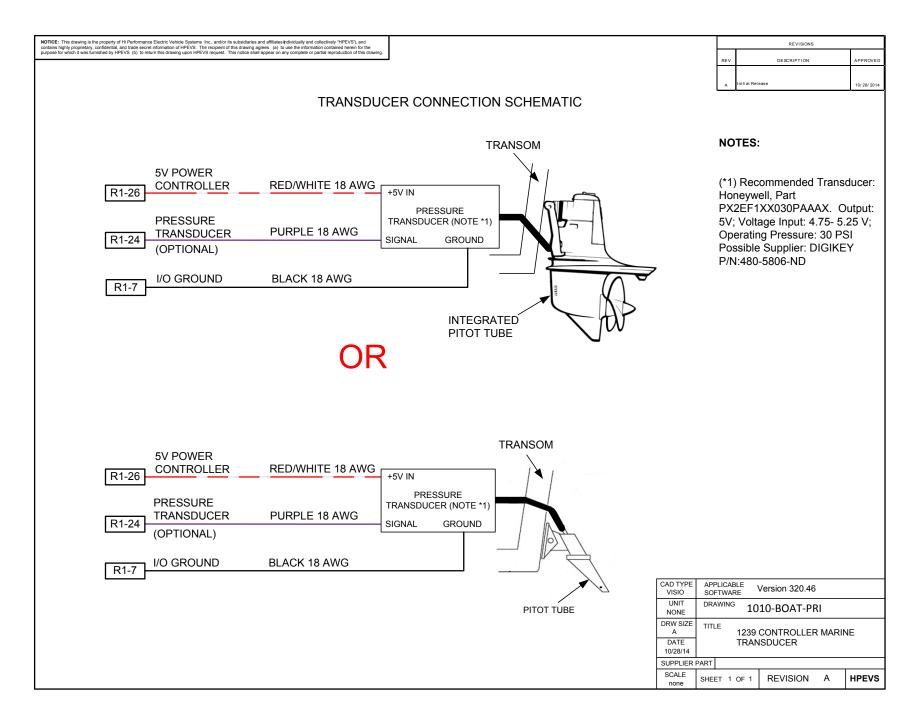
FOR CURTIS 1239 CONTROLLER MARINE CONVERSION FOR SINGLE MOTOR APPLICATION

REVISION: A Date 2/2/15









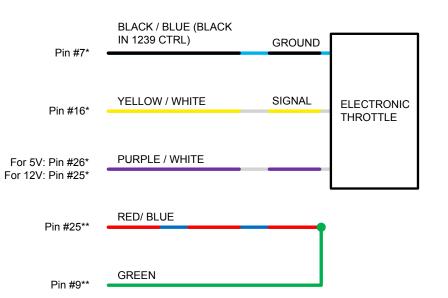
REVISIONS NOTICE: This drawing is the property of Hi Performance Electric Vehicle Systems Inc., and/or its subsidiaries and affiliates (individually and collectively "HPEVS"), and contains highly proprietary, confidential, and trade secret information of HPEVS. The recipient of this drawing agrees (a) to use the information contained herein for the REV DESCRIPTION APPROVED INITIAL RELEASE 3/12/2013 purpose for which it was furnished by HPEVS (b) to return this drawing upon HPEVS request. This notice shall appear on any complete or partial reproduction of this drawing. CHARGER OUTPUT NEGATIVE BATTERY PACK ACUITY POWER IN CURRENT NEGATIVE SENSOR DIRECTION **BLACK** RED **ACUITY POWER IN POSITIVE** CHARGER **CURTIS** OUTPUT **ACUITY** CHARGER POSITIVE MAIN CONTACTOR CONNECT TO THE 2 PIN CONNECTOR IN MAIN HARNESS B -B + CONTROLLER MOTOR CAN CONNECTION CAD TYPE CAD LOC. CAD FILE DRW SIZE A VISIO OPER. NO. DRAWING UNIT 1010-ACUITY-INSTALL DESIGN DETAIL TITLE **ACUITY INSTALLATION** CHECKED SAFETY DATE 3/12/13 SCALE REVISION A **HPEVS** NONE SHEET 1 OF 1

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	TYPE
ELECTRONIC without SWITCH	TYPE 2
2 WIRE with SWITCH 0-5k Ω	TYPE 3
3 WIRE with SWITCH 0-5k Ω	TYPE 2
CURTIS PB8 THROTTLE ASSEMBLY	TYPE 2
WIG WAG 3 WIRE	TYPE 4

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TYPE 2 ELECTRONIC THROTTLE

MARINE APPLICATION

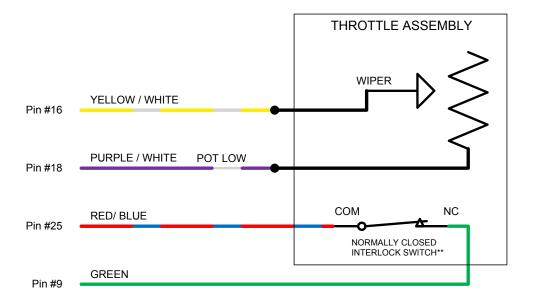
*Typical connection, verify correct voltage and connection in throttle documents or instructions.

Not all Electronic Throttles supported

** When Electronic pedal is used, the GREEN wire from pedal interlock MUST be connected to the RED/BLUE wire.

CAD TYPE VISIO	APPLICABLE SOFTWARE				
UNIT NONE	DRAWING 101	0-THROTTLE-	-001		
DRW SIZE A DATE 2/3/15		TRONIC TH			
SUPPLIER PART					
SCALE	SHEET 5 OF 8	REVISION	Α	HPEVS	

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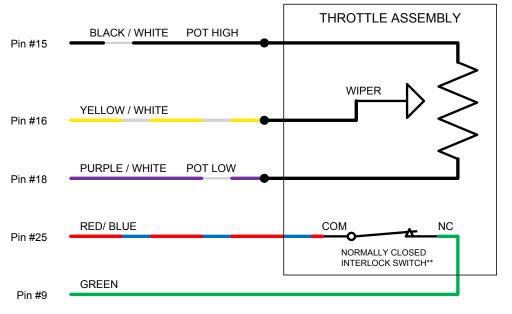
2 WIRE TYPE 3 THROTTLE

MARINE APPLICATION

** When 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.

CAD TYPE VISIO		APPLICABLE SOFTWARE				
UNIT NONE	DRA	DRAWING 1010-THROTTLE-001				
DRW SIZE A	TITI	-E	2١	WIRE TYPE	3	
DATE 2/3/15	THROTTLE – MARINE					
SUPPLIER PART						
SCALE NONE	SHE	ET 6 OF	- 8	REVISION	Α	HPEVS

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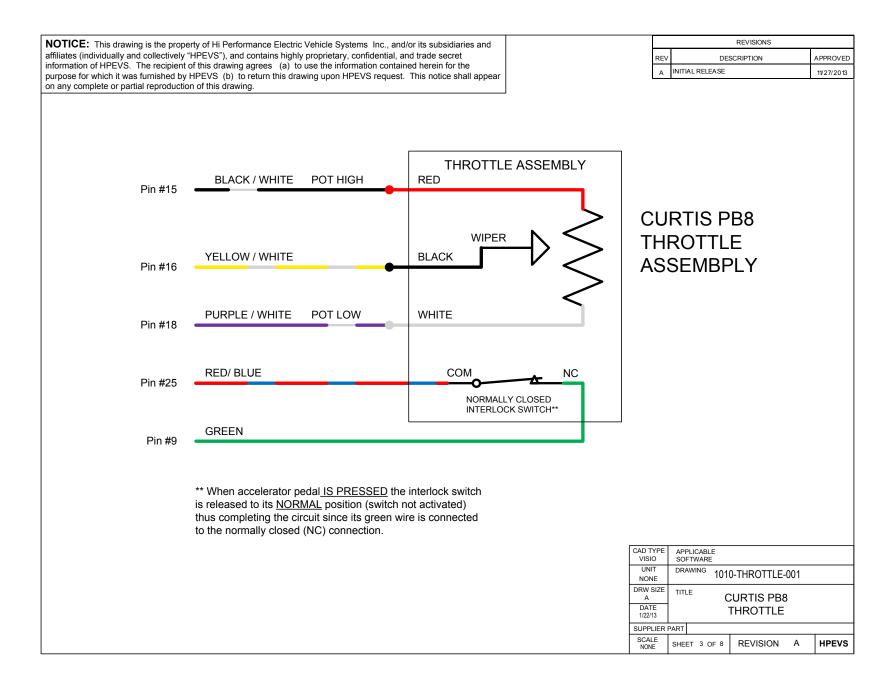


3 WIRE TYPE 2 THROTTLE

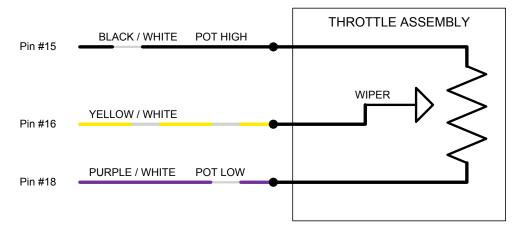
MARINE APPLICATION

** When 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.

CAD TYPE VISIO	APPLICABLE SOFTWARE				
UNIT NONE	DRAWING 1010	O-THROTTLE-	001		
DRW SIZE A	TITLE 3 V	VIRE TYPE	2		
DATE 1/22/13	THROTTLE- MARINE				
SUPPLIER PART					
SCALE NONE	SHEET 7 OF 8	REVISION	Α	HPEVS	



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3 WIRE WIG WAG TYPE 4 THROTTLE**

MARINE APPLICATION

** No Forward or Reverse input used. No Interlock Switch used.

CAD TYPE VISIO		APPLICABLE SOFTWARE				
UNIT NONE	DRA	DRAWING 1010-THROTTLE-001				
DRW SIZE A	TITI	3 WIRE TYPE 4				
DATE 2/3/15		WIG WAG - MARINE				
SUPPLIER PART						
SCALE NONE	SHE	ET 8 OF 8	REVISION	Α	HPEVS	

THROTTLE INTERLOCK CONNECTION

The throttle 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 throttle <u>IS ENGAGED</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.

