

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

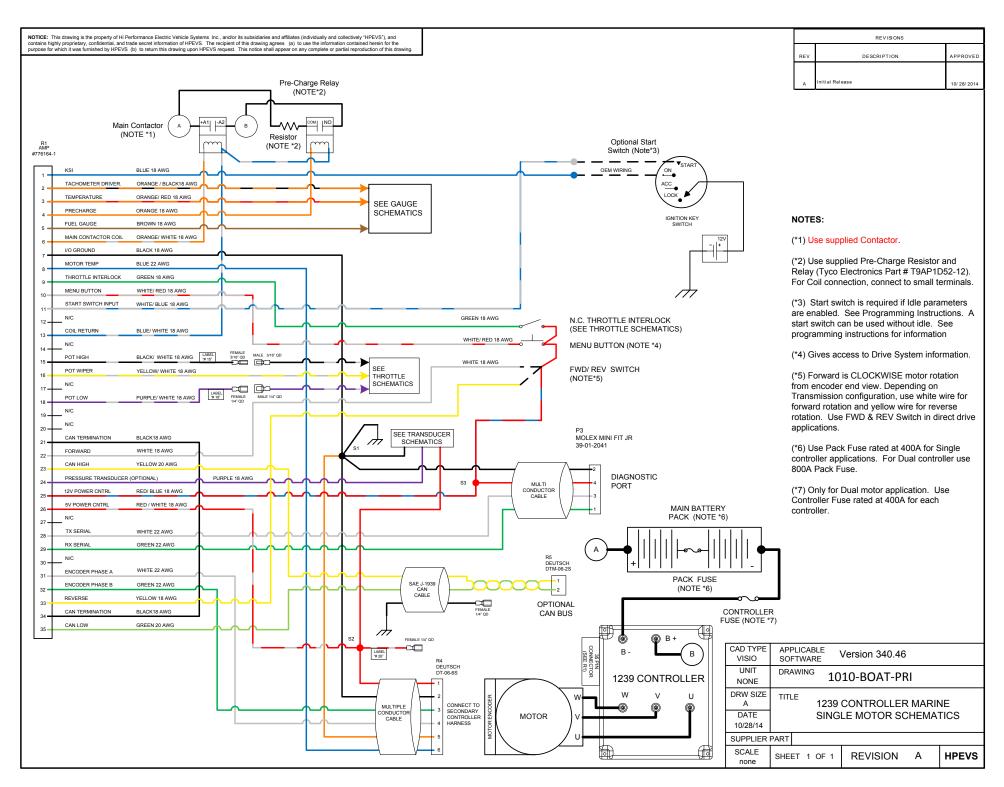
WIRING SCHEMATICS

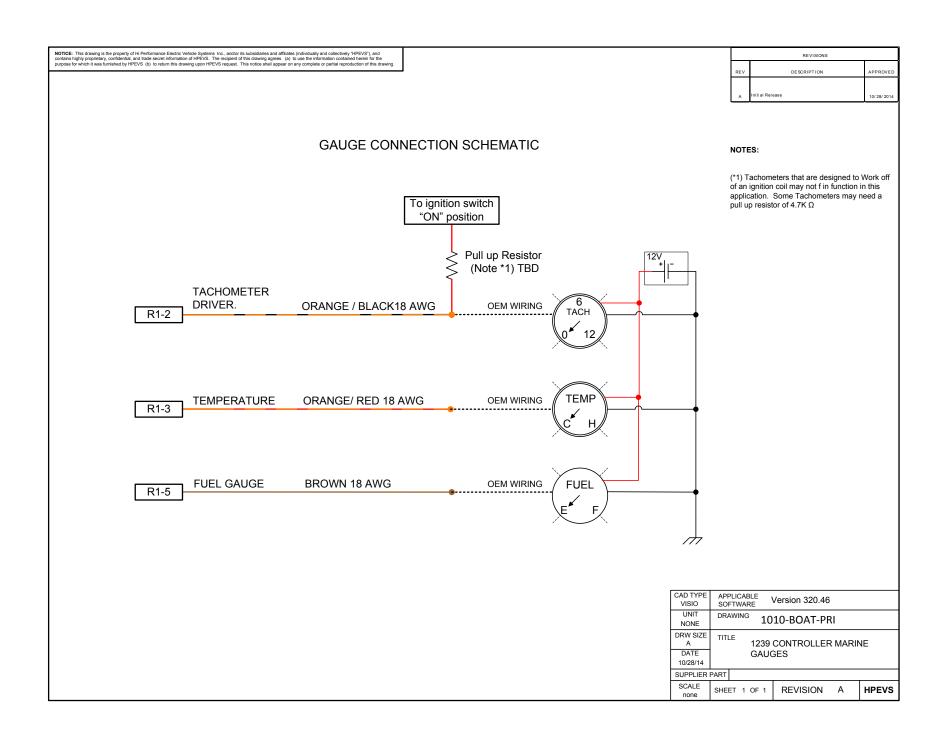
FOR SOFTWARE VERSIONS 320.46 AND HIGHER

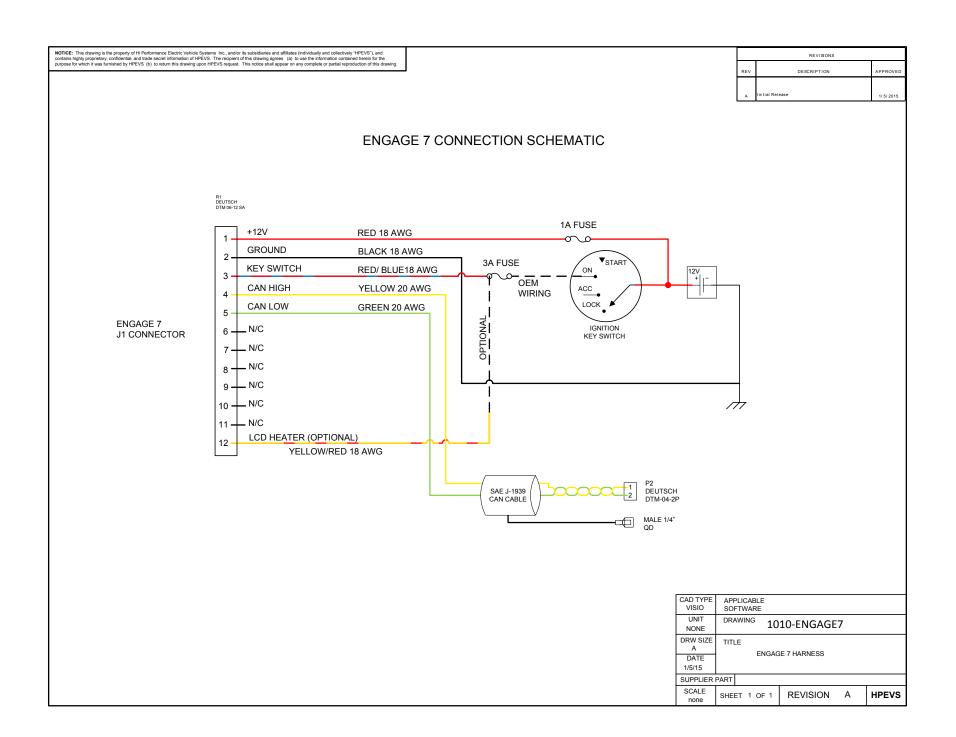
FOR CURTIS 1239 CONTROLLER MARINE CONVERSION FOR SINGLE MOTOR

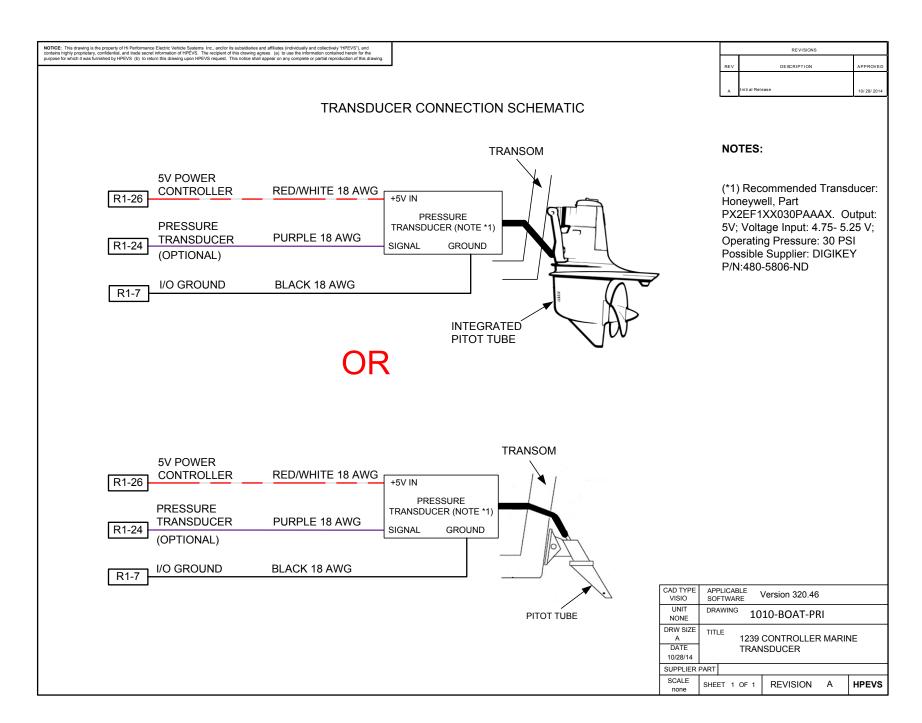
APPLICATION

REVISION: A Date 2/2/15









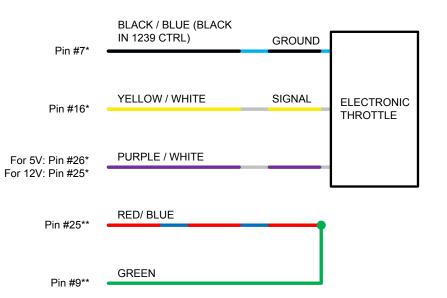
REVISIONS NOTICE: This drawing is the property of Hi Performance Electric Vehicle Systems Inc., and/or its subsidiaries and affiliates (individually and collectively "HPEVS"), and contains highly proprietary, confidential, and trade secret information of HPEVS. The recipient of this drawing agrees (a) 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. UNIT DRAWING 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

	REVISIONS				
REV	DESCRIPTION	APPROVED			
Α	INITIAL RELEASE	2/3/2015			



TYPE 2 ELECTRONIC THROTTLE

MARINE APPLICATION

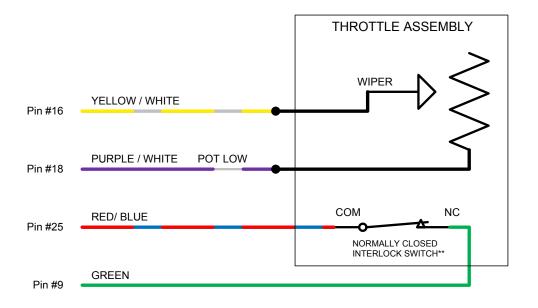
*Typical connection, verify correct voltage and connection in throttle documents or instructions.

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 NONE	SHEET 5 OF	8	REVISION	Α	HPEVS

	REVISIONS				
REV	REV DESCRIPTION				
Α	A INITIAL RELEASE				



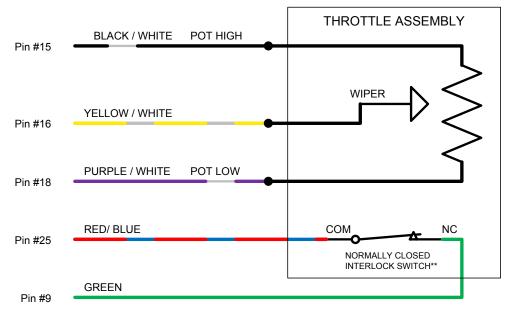
2 WIRE TYPE 3 THROTTLE

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 APPLICABLE VISIO SOFTWARE UNIT DRAWING 1010-THROTTLE-001 NONE DRW SIZE TITLE 2 WIRE TYPE 3 DATE THROTTLE - MARINE 2/3/15 SUPPLIER PART SCALE SHEET 6 OF 8 REVISION A HPEVS

REVISIONS				
REV	DESCRIPTION	APPROVED		
Α	INITIAL RELEASE	2/3/2015		



3 WIRE TYPE 2 THROTTLE

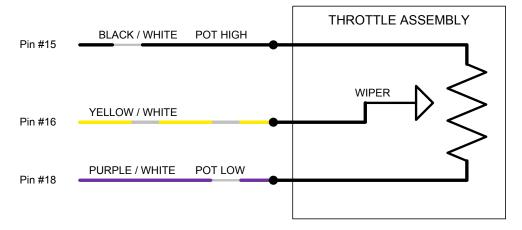
MARINE APPLICATION

** 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-THROTTLE-001			
DRW SIZE A	TITLE 3 V	VIRE TYPE	2	
DATE 1/22/13	THRO	OTTLE- MAR	RINE	
SUPPLIER	PART			
SCALE NONE	SHEET 7 OF 8	REVISION	Α	HPEVS

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 APPROVED DESCRIPTION information of HPEVS. The recipient of this drawing agrees (a) to use the information contained herein for the INITIAL RELEASE 11/27/2013 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. THROTTLE ASSEMBLY RED BLACK / WHITE POT HIGH Pin #15 **CURTIS PB8 WIPER THROTTLE** YELLOW / WHITE **BLACK ASSEMBPLY** Pin #16 PURPLE / WHITE POT LOW WHITE Pin #18 NC RED/ BLUE COM Pin #25 NORMALLY CLOSED INTERLOCK SWITCH** **GREEN** Pin #9 ** When accelerator pedal IS PRESSED the interlock switch is released to its **NORMAL** position (switch not activated) thus completing the circuit since its green wire is connected to the normally closed (NC) connection. CAD TYPE APPLICABLE VISIO SOFTWARE UNIT DRAWING 1010-THROTTLE-001 NONE DRW SIZE TITLE **CURTIS PB8** DATE 1/22/13 THROTTLE SUPPLIER PART SCALE SHEET 3 OF 8 REVISION A **HPEVS**

	REVISIONS					
REV	DESCRIPTION	APPROVED				
Α	INITIAL RELEASE	2/3/2015				



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	3 WIRE TYPE 4				
ſ	DATE 2/3/15	WIG WAG - MARINE				
Γ	SUPPLIER	PART	ART			
ſ	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.

