

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

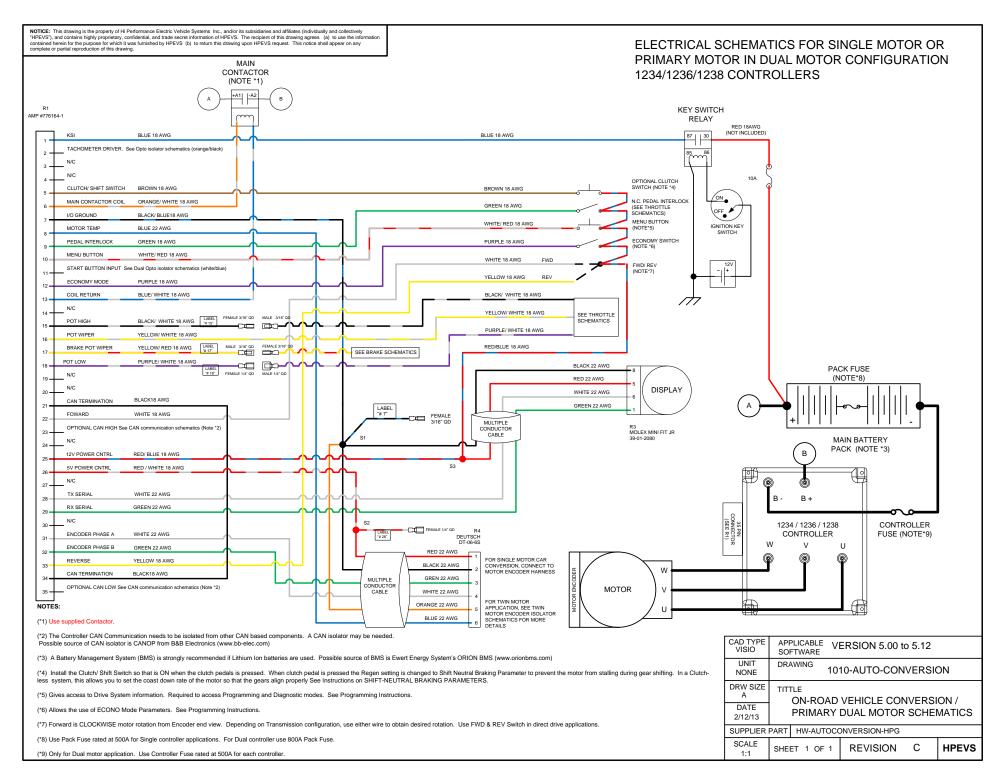
# **WIRING SCHEMATICS**

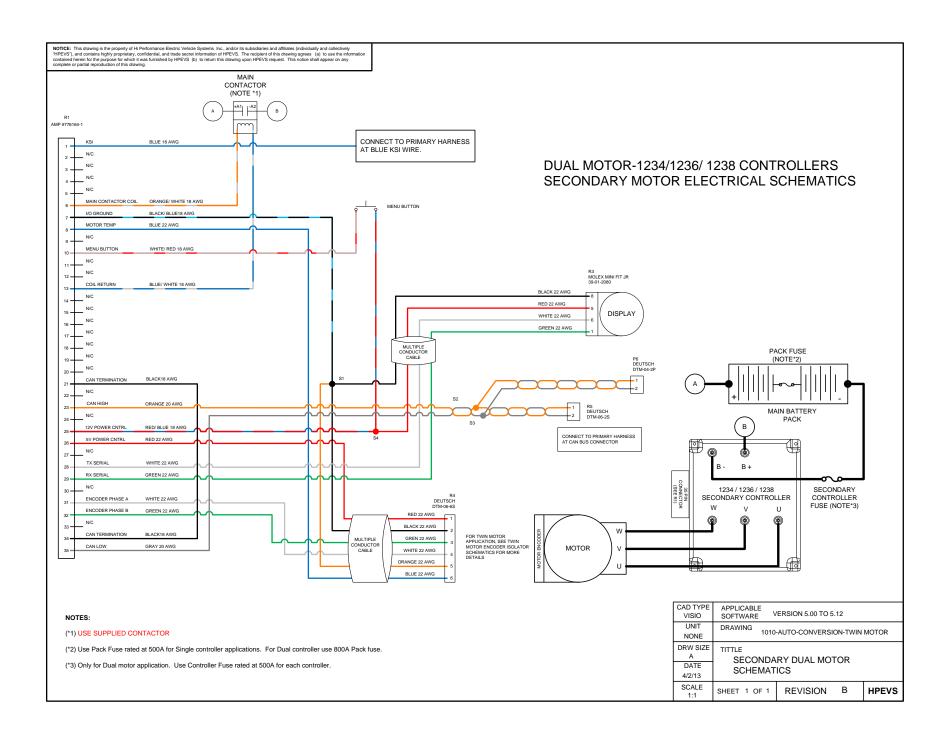
# ON-ROAD VEHICLE CONVERSION SINGLE AND DUAL MOTOR APPLICATION

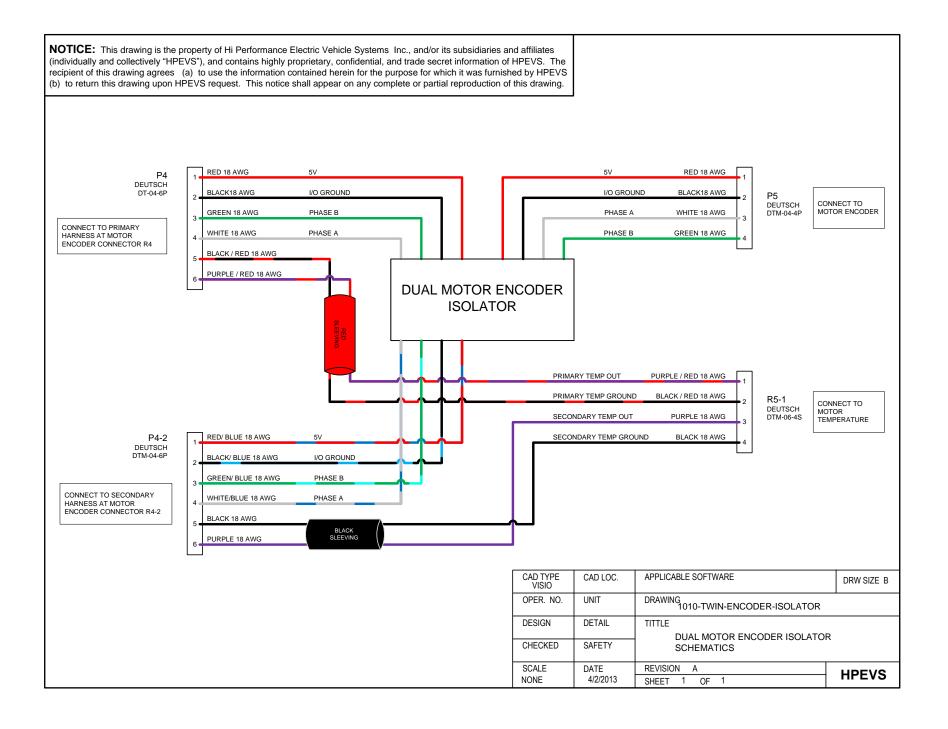
FOR SOFTWARE VERSIONS 5.00 TO 5.12

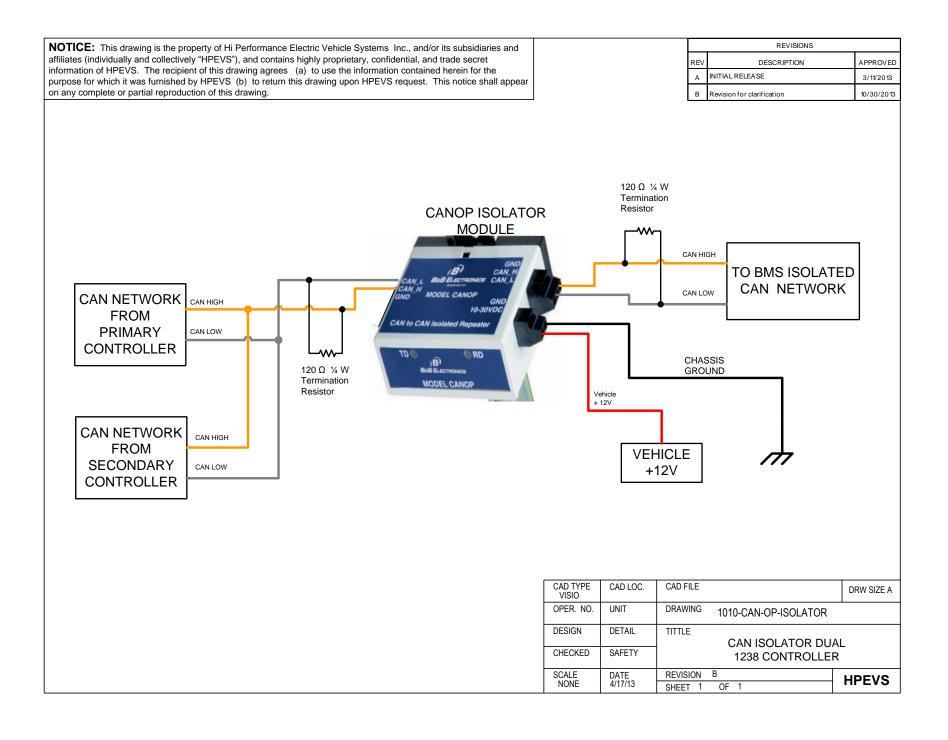
FOR CURTIS CONTROLLERS 1234/1236/1238

REVISION: C Date: 5/28/14







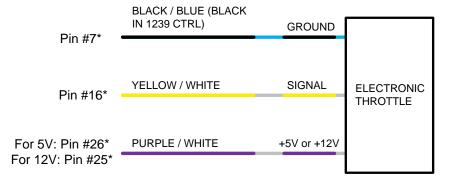


# THROTTLE CONFIGURATION

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

THROTTLE CONFIGURATION	TYPE
THROTTLE CONFIGURATION	ITFL
ELECTRONIC without SWITCH	TYPE 1
2 WIRE with SWITCH 0-5k $\Omega$	TYPE 2
3 WIRE with SWITCH 0-5k $\Omega$	TYPE 3
CURTIS PB8 THROTTLE ASSEMBLY	TYPE 3

	REVISIONS				
REV	DESCRIPTION	APPROVED			
Α	INITIAL RELEASE	1/22/2013			



TYPE 1
ELECTRONIC
THROTTLE\*\*

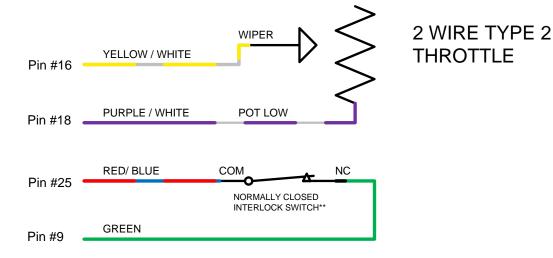
\* Typical connection, verify correct voltage and connection in throttle documents or instructions.

Not all Electronic Throttles supported

\*\* When an electronic throttle is used, the GREEN wire from the pedal interlock does not need to be connected.

CAD TYPE VISIO		PLICABL FTWARE	_			
UNIT NONE	DRA	AWING	101	0-THROTTLE-	001	
DRW SIZE A	TIT		OTI	ONIO TUD	OTTI	_
DATE 1/22/13		ELE	CII	RONIC THR	OTIL	E
SUPPLIER	PART					
SCALE NONE	SHE	ET 4 C	)F 4	REVISION	В	HPEVS

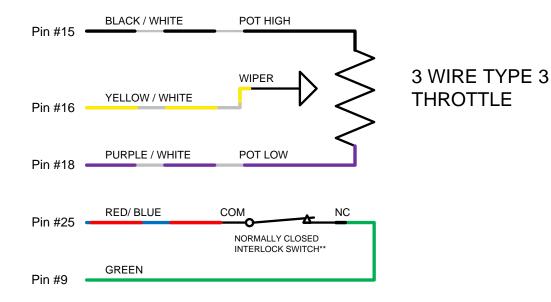
REVISIONS				
REV	DESCRIPTION	APPROVED		
Α	INITIAL RELEASE	1/22/2013		



\*\* 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.

		_		
CAD TYPE VISIO	CAD LOC.	CAD FILE		DRW SIZE A
OPER. NO.	UNIT	DRAWING	1010-THROTTLE-001	
DESIGN	DETAIL	TITTLE	2 WIRF TYPF 2	
CHECKED	SAFETY		THROTTLE	
SCALE NONE	DATE 1/22/13	REVISION SHEET 1	A OF 3	HPEVS

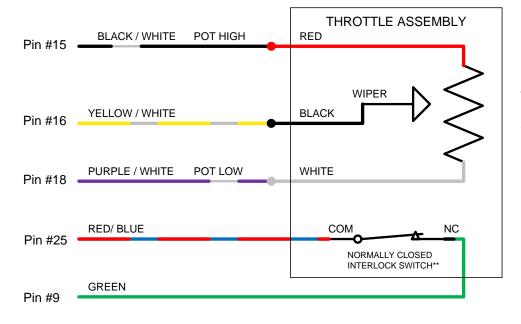
REV	DESCRIPTION	APPROVED
Α	INITIAL RELEASE	1/22/2013



\*\* 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.

SCALE NONE	DATE 1/22/13	REVISION	THROTTLE	HPEVS
DESIGN	DETAIL	TITTLE	3 WIRE TYPE 3	
OPER. NO.	UNIT	DRAWING	1010-THROTTLE-001	
CAD TYPE VISIO	CAD LOC.	CAD FILE		DRW SIZE A

REV	DESCRIPTION	APPROVED
Α	INITIAL RELEASE	11/27/2013



CURTIS PB8 THROTTLE ASSEMBLY

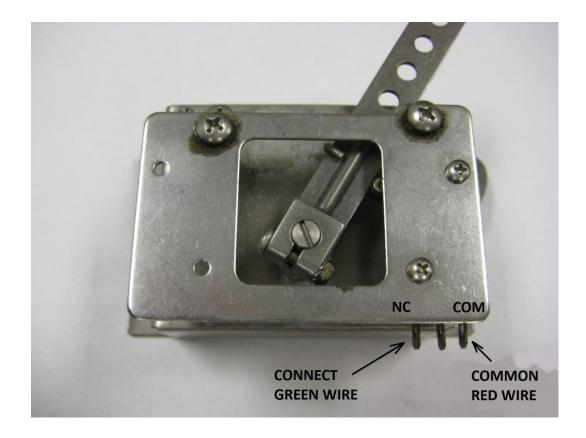
\*\* When the accelerator pedal <u>IS PRESSED</u> the interlock switch is released to its <u>NORMAL</u> position (switch not activated) thus completing the circuit since its green wire is connected to the normally closed (NC) connection.

CAD TYPE APPLICABLE VISIO UNIT DRAWING 1010-THROTTLE-001 NONE DRW SIZE TITTLE Α **CURTIS PB8** DATE THROTTLE ASSEMBLY 1/22/13 SUPPLIER PART SCALE NONE SHEET 3 OF 4 REVISION A **HPEVS** 

## 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.

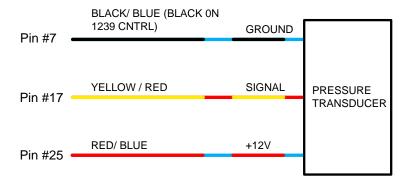


## **BRAKE INPUT CONFIGURATION**

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 in the following pages.

BRAKE INPUT CONFIGURATION	ТҮРЕ
PRESSURE TRANSDUCER/ ELECTRONIC 0-5V INPUT	TYPE 1
2 WIRE 0-5k Ω	TYPE 2

REV	DESCRIPTION	APPROVED
Α	INITIAL RELEASE	2/19/2013

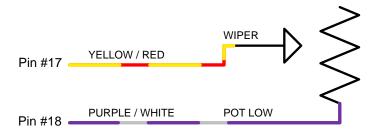


TYPE 1 PRESSURE TRANSDUCER

\*\* Typical Pressure Transducer Ratings 8-30 Volt Input 1-5 Volt Output 2500 PSI

CAD TYPE VISIO	CAD LOC.	CAD FILE		DRW SIZE A
OPER. NO.	UNIT	DRAWING	1010-BRAKE	
DESIGN	DETAIL	TITTLE		
CHECKED	SAFETY		PRESSURE TRANSDL	ICER
SCALE	DATE	REVISION A	4	HPEVS
NONE	2/19/13	SHEET 2	OF 2	HELAS

I	REV	DESCRIPTION	APPROVED
ſ	Α	2/19/2013	



TYPE 2 2 WIRE BRAKE POT

CAD TYPE VISIO	CAD LOC.	CAD FILE	DRW SIZE A
OPER. NO.	UNIT	DRAWING 1010-BRAKE	
DESIGN	DETAIL	TITTLE 2 WIRF	
CHECKED	SAFETY	BRAKE POT	
SCALE NONE	DATE 2/19/13	REVISION A SHEET 1 OF 2	HPEVS

