

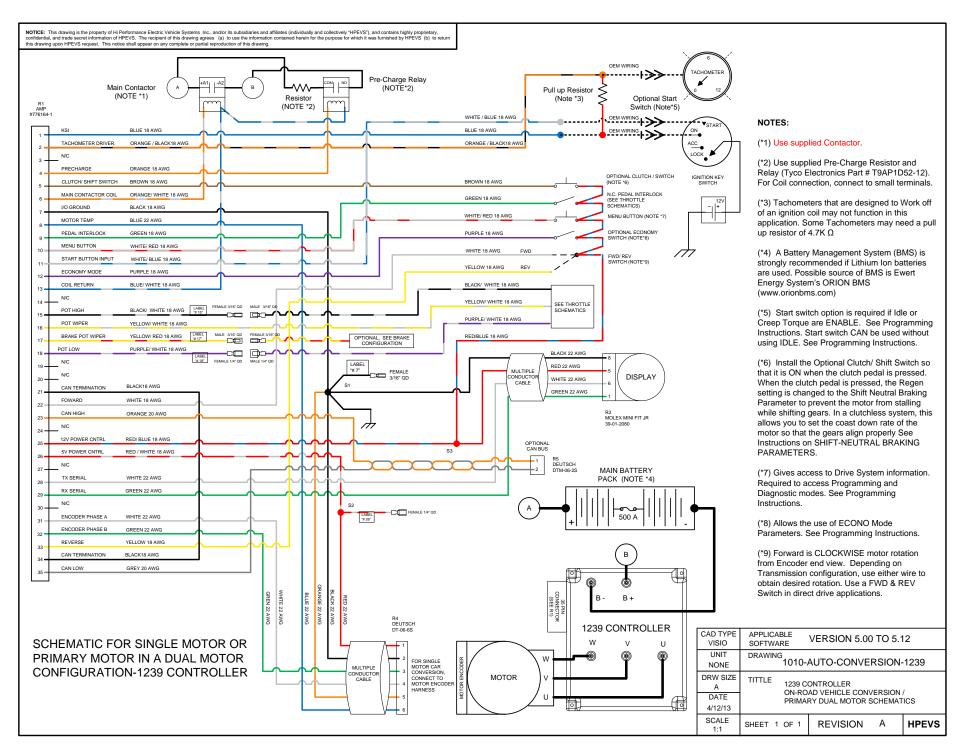
1551 S. Vineyard Avenue Ontario, CA 91761 (909) 923-1973

WIRING SCHEMATICS

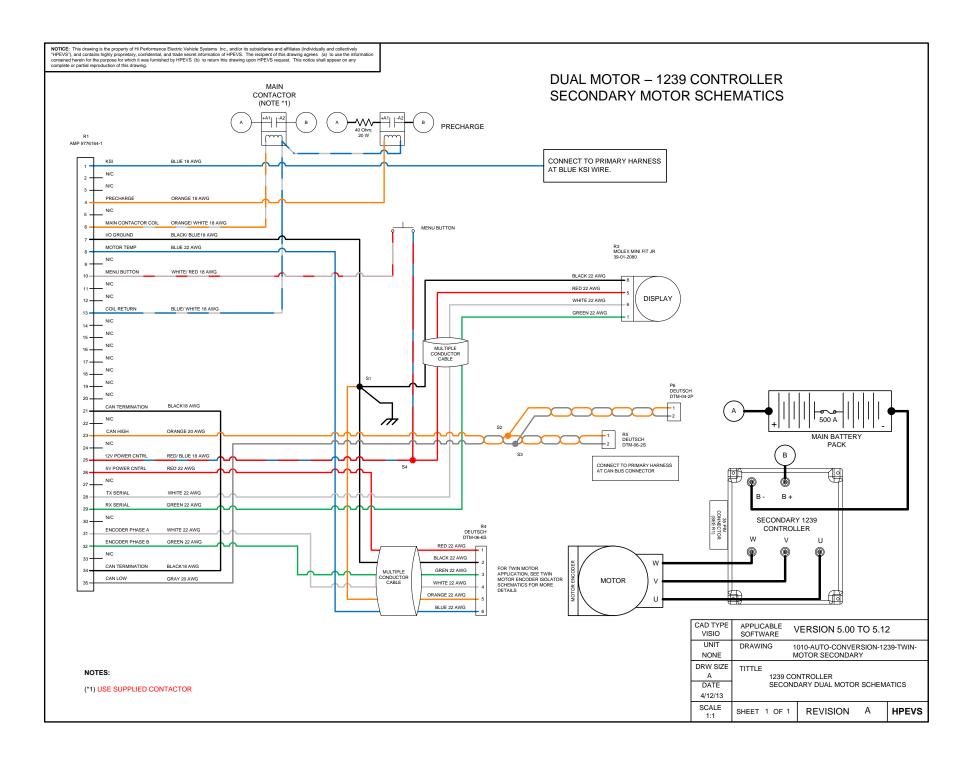
FOR SOFTWARE VERSIONS 5.00 TO 5.12

FOR CURTIS 1239 CONTROLLER ON-ROAD VEHICLE CONVERSION FOR SINGLE AND DUAL MOTOR APPLICATIONS

REVISION: B Date 4/11/14



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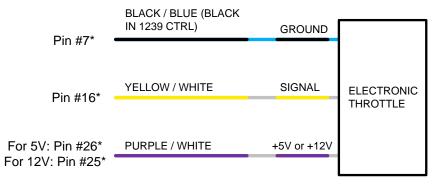


THROTTLE CONFIGURATION

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 within the following pages.

THROTTLE CONFIGURATION	TYPE
ELECTRONIC without SWITCH	TYPE 1
2 WIRE with SWITCH 0-5k Ω	TYPE 2
3 WIRE with SWITCH 0-5k Ω	TYPE 3
CURTIS PB8 THROTTLE ASSEMBLY	TYPE 3

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TYPE 1
ELECTRONIC
THROTTLE**

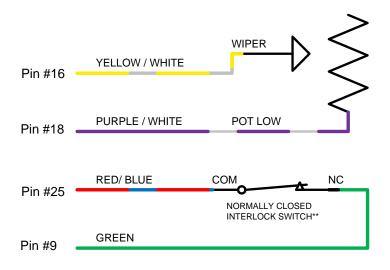
* Typical connection, verify correct voltage and connection in throttle documents or instructions.

Not all Electronic Throttles supported

CAD TYPE VISIO		PLICABL FTWARE				
UNIT NONE	DRA	AWING	101	0-THROTTLE-	001	
DRW SIZE A	TIT		СТГ	RONIC THR	OTTI	_
DATE 1/22/13		ELE	:011	RONIC THR	OIIL	E
SUPPLIER	PART					
SCALE NONE	SHE	ET 4 (OF 4	REVISION	В	HPEVS

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

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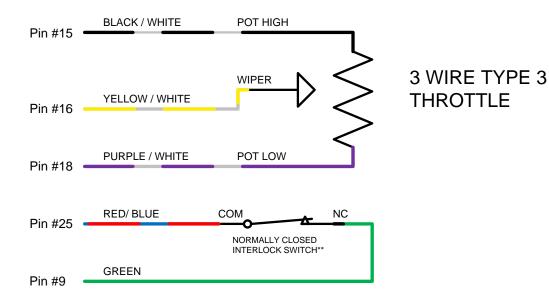


2 WIRE TYPE 2 THROTTLE

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

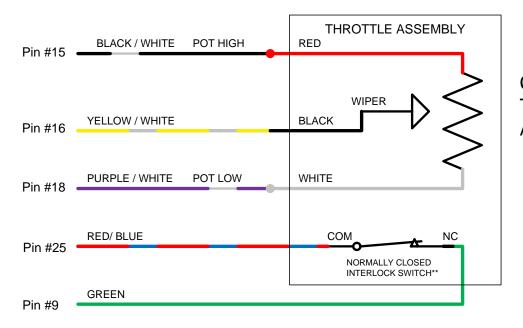
REV	DESCRIPTION	APPROVED
Α	INITIAL RELEASE	1/22/2013



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

^{**} 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.

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REV	DESCRIPTION	APPROVED		
Α	INITIAL RELEASE	11/27/2013		



CURTIS PB8 THROTTLE ASSEMBLY

** When the 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.

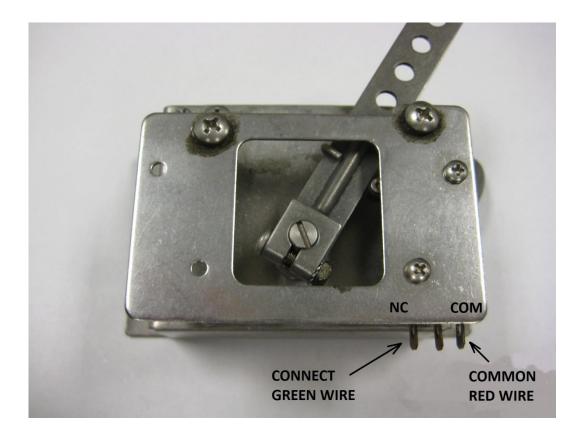
APPLICABLE SOFTWARE CAD TYPE VISIO DRAWING 1010-THROTTLE-001 UNIT NONE DRW SIZE **CURTIS PB8** Α DATE 1/22/13 THROTTLE ASSEMBLY SUPPLIER PART SCALE NONE REVISION A HPEVS SHEET 3 OF 4

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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.

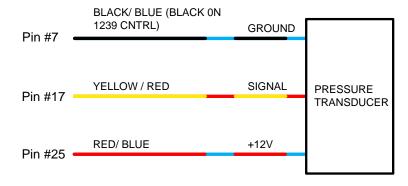


BRAKE INPUT CONFIGURATION

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

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

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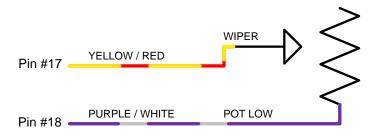


TYPE 1 PRESSURE TRANSDUCER

** 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 TRANSDU	CER
SCALE	DATE	REVISION	A	HPEVS
NONE	2/19/13	SHEET 2	OF 2	HELVS

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REV	DESCRIPTION	APPROVED
Α	INITIAL RELEASE	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 WIRE	
CHECKED	SAFETY	BRAKE POT	-
SCALE	DATE	REVISION A	HPEVS
NONE	2/19/13	SHEET 1 OF 2	TIPEVS