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REVISIONS							
ZONE	REV.	ECN #	DESCRIPTION	DATE (YY-MM-DD)	BY	CHECKED	APPROVED

GENERAL NOTES:
1. THIS ASSEMBLY IS USED FOR MONITORING AND PROGRAMMING ECONTROLS ELECTRONIC CONTROL MODULES THRU THE USE OF ECONTROLS ECIPP SOFTWARE

OPERATIONAL NOTES:
1. USB SPECIFICATIONS:
   A. USB TYPE: USB 2.0
   B. DEVICE COMPATIBILITY: USB 1.1, USB 2.0 (FULL SPEED & HI SPEED); BUS POWERED, 500mA CONSUMPTION MAX
   C. USB CABLE TYPE: TYPE A CONNECTION, 5M (15FT) MAX LENGTH
2. EPC CONNECTOR CONNECTS TO 8-PIN DIAGNOSTIC CONNECTOR ON ENGINE HARNESS

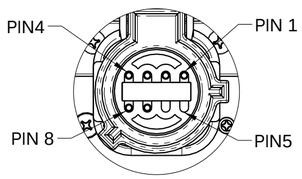
ENVIRONMENTAL NOTES:
3. OPERATING TEMPERATURE RANGE: 0ÁC TO 70ÁC
4. STORAGE TEMPERATURE RANGE: -40ÁC TO 85ÁC
5. HUMIDITY: 0 - 90%, NON-CONDENSING

8-PIN EPC CONNECTOR

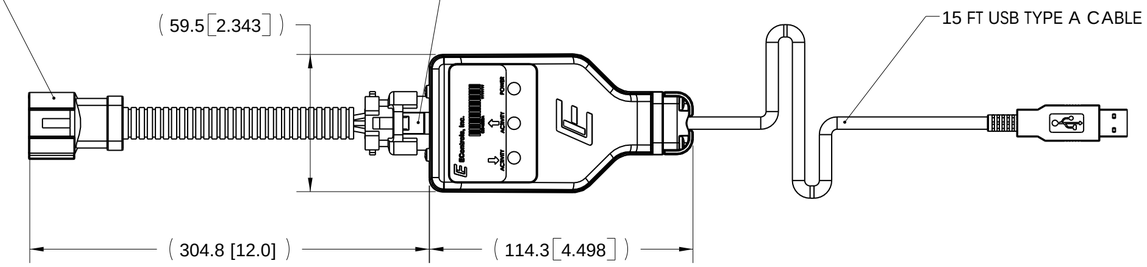
EPC CONNECTOR PINOUT	
Pin 1	AGND Target
Pin 2	+5VD
Pin 3	Tx232 Target
Pin 4	Rx232 Target
Pin 5	
Pin 6	
Pin 7	CAN HIGH
Pin 8	CAN LOW

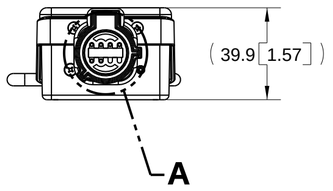
8-PIN AMPSEAL CONNECTOR

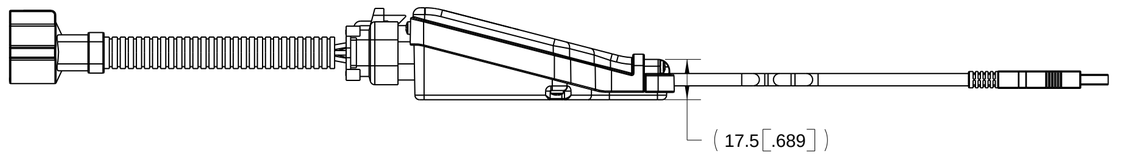
AMP CONNECTOR PINOUT	
Pin 1	+5VD
Pin 2	CAN LOW
Pin 3	CAN HIGH
Pin 4	GND
Pin 5	Rx232 Target
Pin 6	Tx232 Target
Pin 7	5V Target
Pin 8	AGND Target



DETAIL A
SCALE 1 : 1







BASIC LENGTH DIMENSIONS	MEDIUM SERIES VARIATION
0 - 6 mm	±0.1
over 6 to 30	±0.2
over 30 to 120	±0.3
over 120 to 315	±0.5
ANGLES	±1.0˚
SURFACE FINISH	1.6 MICRON

METRIC
DO NOT SCALE DRAWING.
DIMENSIONING AND TOLERANCING PER ASME Y14.5M 1994 & B4.3 1982 APPLY
THIRD ANGLE PROJECTION

MATERIAL

FINISH

	APPROVALS	DATE (YY-MM-DD)
ENGINEER	J. LORENZEN	07-03-08
DRAWN	J. LORENZEN	07-03-08
CHECKED	C. COLE	07-03-08

EControls, Inc.
Control and Instrumentation Specialists
3523 CROSSPOINT
SAN ANTONIO, TX 78217

DESCRIPTION
ECOM DONGLE ASSEMBLY

SIZE	PART NUMBER	DWG. NO.	REV.
D	E2046002	E2046002	A
SCALE	1:2 AND NOTED	CAD FILE: E2046002.SLDPRT	SHEET 1 OF 1