

# CORTEX EBC

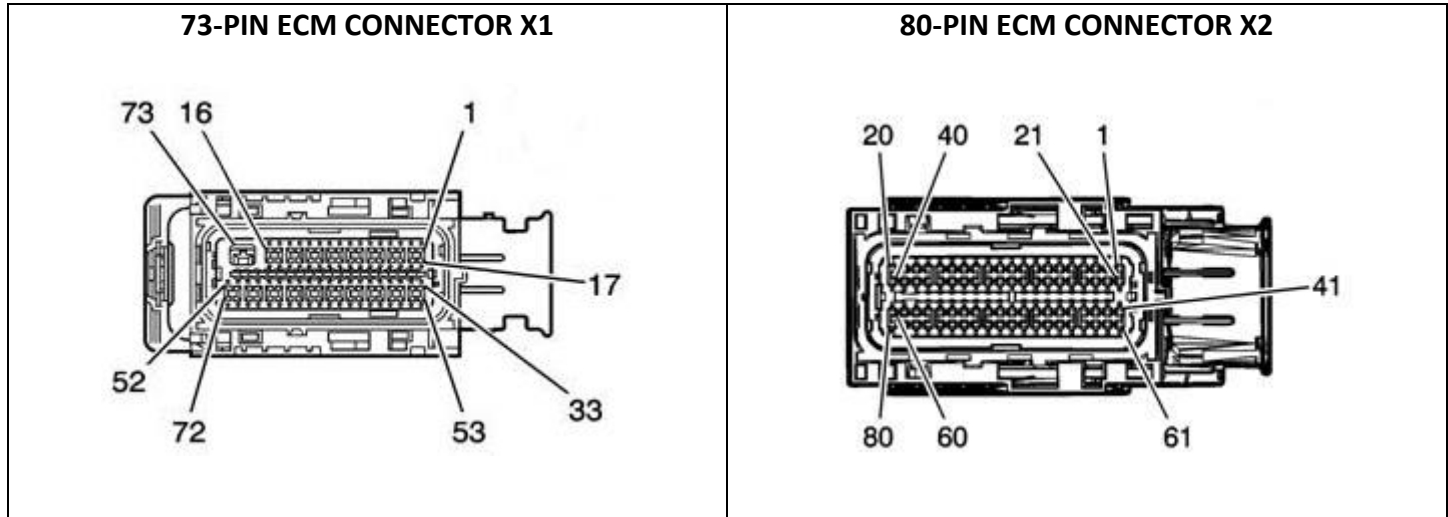
## 2007-2013 Chevrolet Silverado or GMC Sierra

### 4.8L/5.3L/6.0L/6.2L (Except 6.0L Flex) Gen IV Vortec Specific Instructions

Rev 2.0.0

#### WIRING

The Silverado ECM is in the driver side of the engine bay next to the battery. The ECM has two large connectors. Power, RPM, vehicle speed, and TPS signals can be accessed at these connectors.



#### SPEED SIGNAL OPTIONS

Speed signal locations are dependent on drivetrain configuration.

CORTEX EBC SIGNAL	ECM SIGNAL	ECM PIN #	ECM WIRE COLOR
Vehicle Speed	VSS Output (Pinned)*	X1-57	Yellow / Black
	VSS Output (Unpinned)*	X1-57	Use GM E38 ECM Install Kit
	Replicated TOS Input**	X1-71	Orange / Black

\* Will be pinned from factory on HD trucks only, if unpinned the GM E38 ECM Installation Kit will be required.

\*\* Only available on trucks with 4-speed automatic transmission (4L60-E). Will not work if wire color is purple / white.

#### RPM SIGNAL OPTIONS

CORTEX EBC SIGNAL	ECM SIGNAL	ECM PIN #	ECM WIRE COLOR
Engine Speed (RPM)	Cam Position Signal Input	X2-64	Dark Blue / White
	Tach Output (Unpinned)	X1-48	Use GM E38 ECM Install Kit

#### POWER, GROUND, TPS SIGNALS

CORTEX EBC SIGNAL	ECM SIGNAL	ECM PIN #	ECM WIRE COLOR
+12V Power	Switched ECM Power	X1-19	Pink
Ground	Connect to Chassis Near EBC	N/A	N/A
TPS*	TPS Input	X2-65	Dark Green

\* Optional for TPS based boost control and output activation.

# VEHICLE CONFIGURATION SETTINGS

## RPM DETECTION:

- Pulses Per Cycle: 4
- Rotations Per Cycle: 2

## SPEED DETECTION:

- Pulses Per Mile: 4,000
- VSS Scaler: None

## GEAR DETECTION:

- EVS Ratios: Determine using EVS Ratio displayed by logger while driving in each gear.

## GPI CONFIGURATION FOR TPS:

- Mode: TPS
- Min TPS Voltage: Enter GPI Raw displayed by logger when throttle is closed (around 0.0 V).
- Max TPS Voltage: Enter GPI Raw displayed by logger when throttle is open (around 5.0 V).