

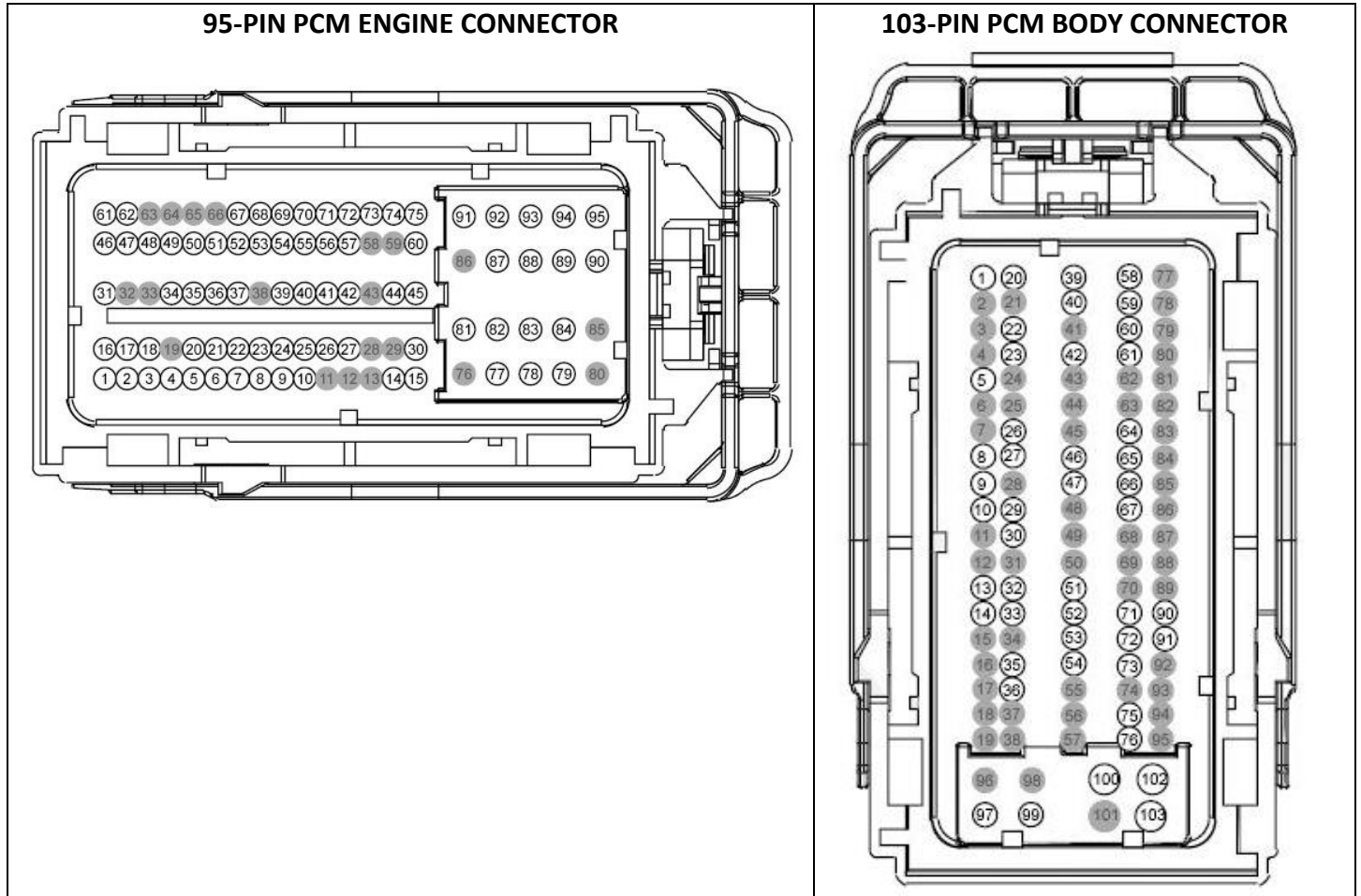
# CORTEX EBC

## 2015-2017 Mustang GT 5.0L Specific Instructions

Rev 1.0.0

### WIRING

The 2015-2017 Mustang GT PCM is in the passenger side of the engine bay next to the fuse box. The PCM has two connectors. Power, RPM, vehicle speed, and TPS signals can be accessed at these connectors.



The Cortex EBC wiring harness should be connected to the PCM connectors as outlined in the following table (B = Body Connector, E = Engine Connector).

CORTEX EBC SIGNAL	PCM SIGNAL	PCM PIN #	PCM WIRE COLOR
+12V Power	Switched PCM Power	B-97 or B-99	Blue
Ground	Connect to Chassis Near EBC	N/A	N/A
Engine Speed (RPM)	Intake Cam Position Sensor (CMP21)	E-42	Yellow / Blue
Vehicle Speed	Output Shaft Speed (OSS)	E-26	Yellow / Orange
TPS*	Throttle Position 1 (TP1)	E-10	Brown

\* Optional for TPS based boost control and output activation

# VEHICLE CONFIGURATION SETTINGS

## RPM DETECTION:

- Pulses Per Cycle: 7
- Rotations Per Cycle: 2

## SPEED DETECTION:

- Pulses Per Mile: Calibrate using speedometer or GPS. 4,000 is a good starting point.
- VSS Scaler: 1/16

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