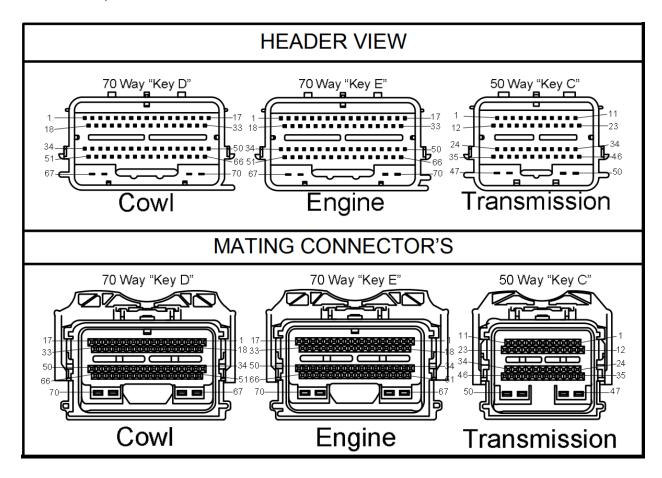
# **CORTEX EBC**

# 2011-2014 F-150 5.0L Specific Instructions

Rev 2.0.0

## WIRING

The 2011-2014 F-150 PCM is in the passenger side of the engine bay on the firewall. The PCM has three connectors. Power, RPM, vehicle speed, and throttle position signals can be accessed at these connectors. When the PCM is installed in the vehicle the Transmission connector will be on the right, the Engine connector will be in the middle, and the Cowl connector will be on the left.



The Cortex EBC wiring harness can be connected to the PCM connectors as outlined in the following table (C = Cowl Connector, E= Engine Connector, T = Transmission Connector). RPM and vehicle speed signals are required for boost by gear applications.

### **CORTEX EBC TO PCM CONNECTIONS**

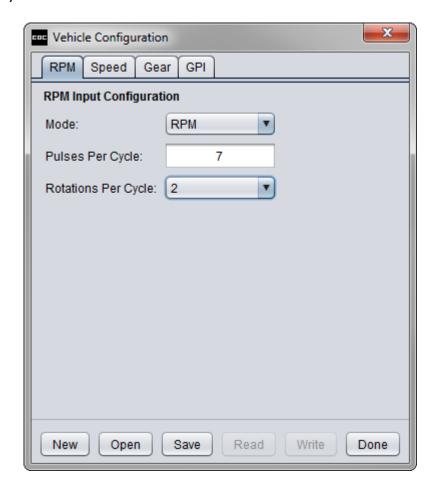
CORTEX SIGNAL	CORTEX WIRE COLOR	PCM SIGNAL	PCM PIN	PCM WIRE COLOR
+12V Power	Red	Switched PCM Power	C-67	Green / Blue
Ground	Black (x2)	Connect to Chassis Near EBC	N/A	N/A
Engine Speed	Pink	Intake Cam Position Sensor (CMP21)	E-42	Yellow / Blue
Vehicle Speed	Green	Output Shaft Speed	T-14	Brown / Green
General-Purpose	Orange	Throttle Position 1	E-39	Brown

# **VEHICLE CONFIGURATION SETTINGS**

## **RPM DETECTION:**

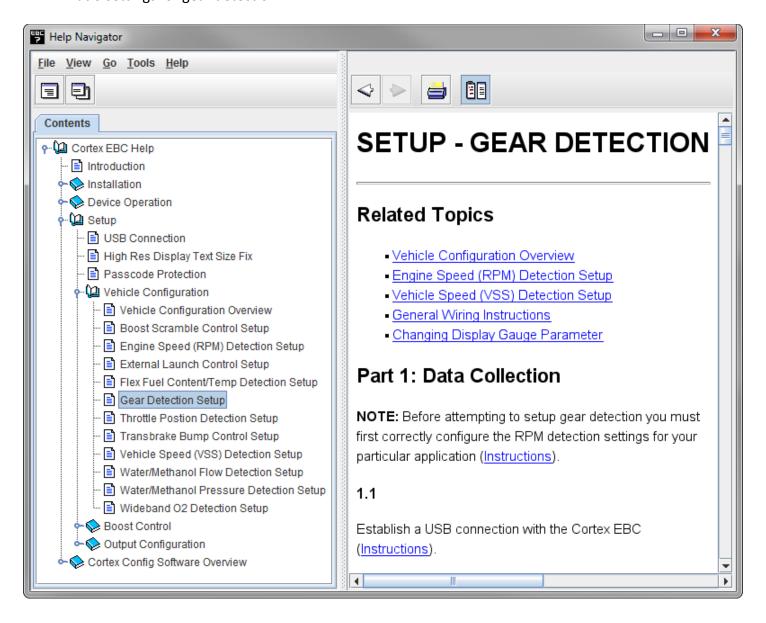
• Mode: RPM

Pulses Per Cycle: 7Rotations Per Cycle: 2



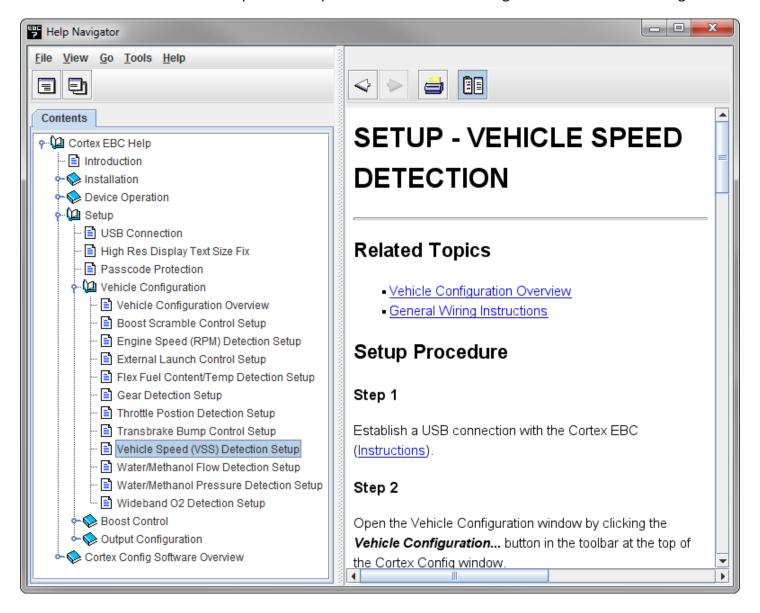
#### **GEAR DETECTION:**

• Follow the steps in the **Setup – Gear Detection** section of the Help utility to determine the correct EVS ratio settings for gear detection.



### **SPEED DETECTION:**

- Follow the steps in the **Setup Vehicle Speed Detection** section of the Help utility to determine the correct Pulses Per Mile setting.
- NOTE: Gear detection setup should be performed before calibrating the Pulses Per Mile setting.



### THROTTLE POSITION DETECTION:

• Follow the steps in the **Setup – Throttle Position Detection** section of the Help utility to determine the correct Closed TPS Voltage and Open TPS Voltage settings.

