MUSTANG 2018-2022 GT CORTEX EBC Specific Instructions

MUSTANG 2018-2022 GT CORTEX EBC Specific Instructions

Contents

WIRING

RPM and vehicle speed signals are required for boost by gear applications. Because the 2018-2022 Mustang does not have a vehicle speed signal that can be connected directly to the Cortex EBC a CB-2 CAN Bus Interface is required for installation. The CB-2 CAN Interface generates both RPM and vehicle speed signals for the Cortex EBC.

The CB-2 CAN Interface can be connected to the CAN system at the OBD2 Port / Data Link Connector (DLC) module, which is below the dash on the driver side of the vehicle.

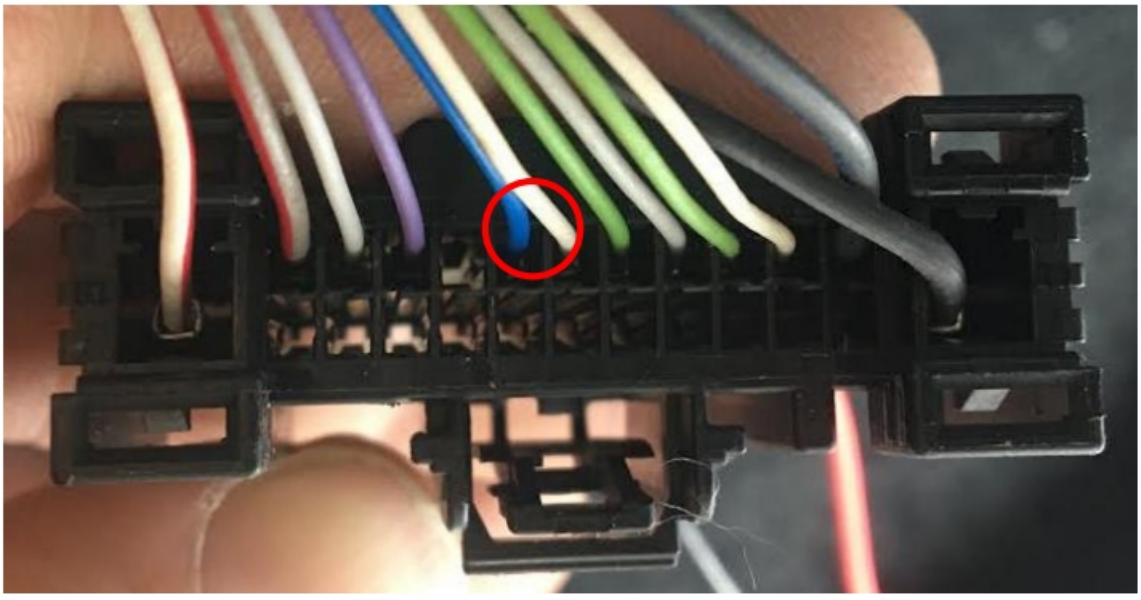
DLC MODULE LOCATION

On the back of the DLC module there is a wiring connector that contains the required CAN signals for the CB-2 CAN Interface. The CB-2 should be connected to the DLC module as outlined in the following table.

CB-2 TO DLC CONNECTIONS

CB-2 SIGNAL	CB-2 WIRE COLOR	DLC MODULE SIGNAL	DLC MODULE WIRE COLOR
CAN High	Yellow	HS1 CAN +	Blue
CAN Low	Blue	HS1 CAN-	White

DLC MODULE WIRING CONNECTOR WITH CAN LINES HIGHLIGHTED



The Cortex EBC wiring harness should be connected to the CB-2 CAN Interface as outlined in the following table.

CORTEX EBC TO CB-2 CONNECTIONS

CORTEX SIGNAL	CORTEX WIRE COLOR	CB-2 SIGNAL	CB-2 WIRE COLOR
Engine Speed	Pink	RPM	Green
Vehicle Speed	Green	Speed Pulse	Orange

If desired, a throttle position signal can be accessed at the wiring connector on the accelerator pedal assembly.

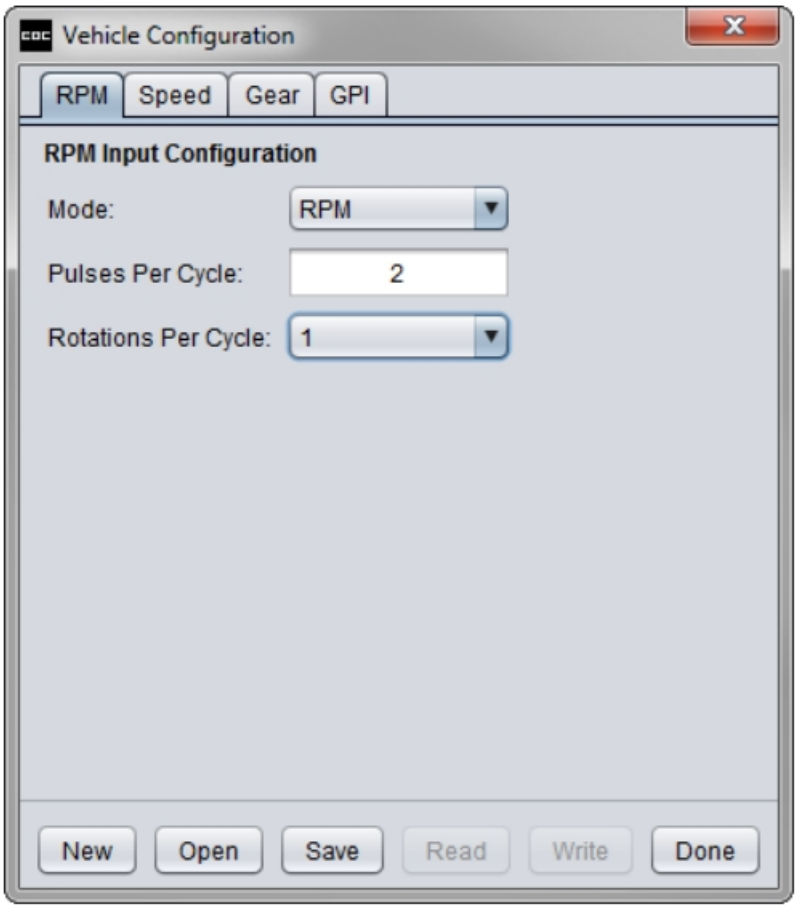
CORTEX EBC TO ACCELERATOR PEDAL CONNECTIONS

CORTEX SIGNAL	CORTEX WIRE COLOR	ACCELERATOR PEDAL CONNECTOR SIGNAL	ACCELERATOR PEDAL CONNECTOR WIRE COLOR
General-Purpose	Orange	Accelerator Pedal Position 1	Yellow / Orange

VEHICLE CONFIGURATION SETTINGS

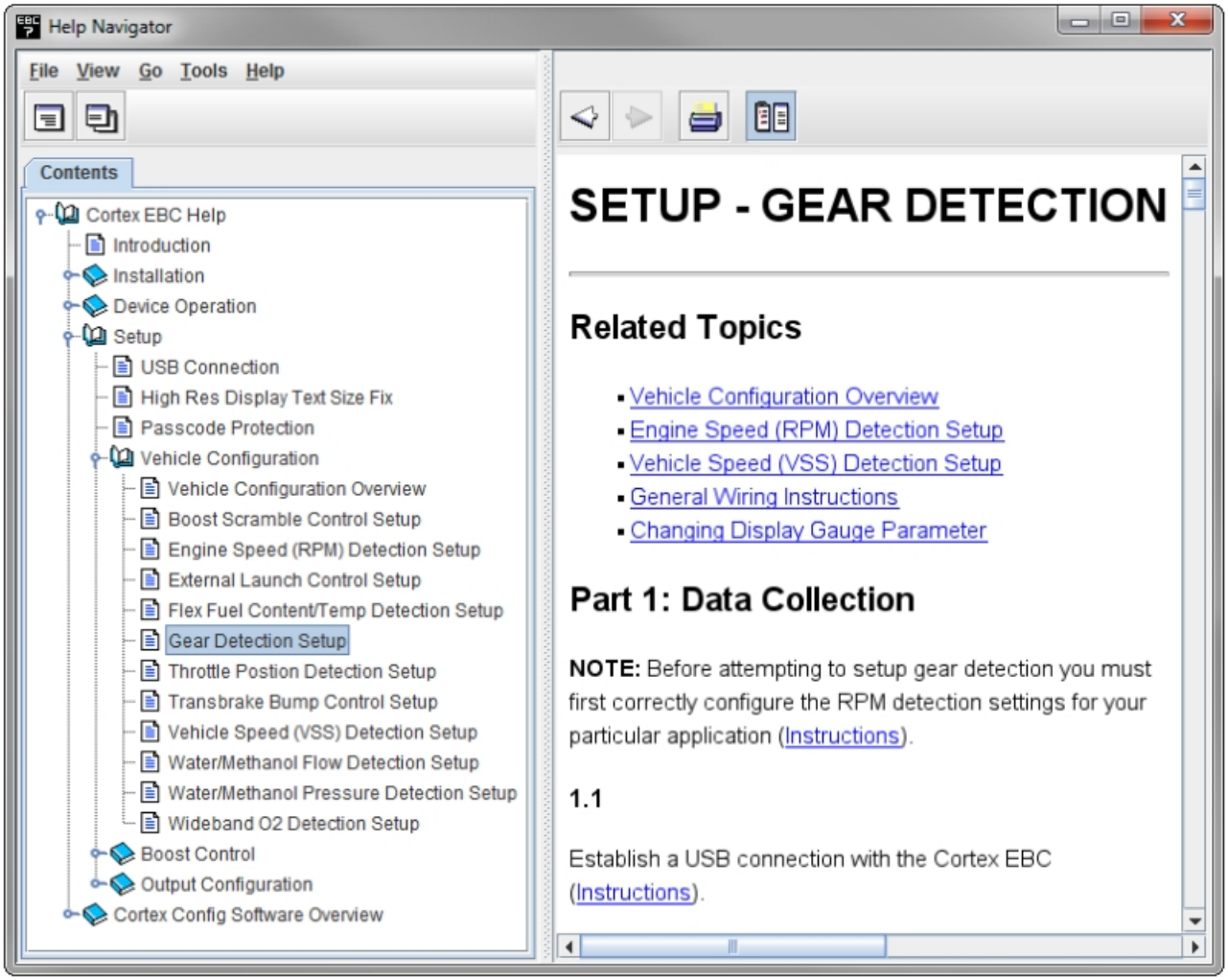
RPM DETECTION:

- Mode: RPM
- Pulses Per Cycle: 2
- Rotations Per Cycle: 1



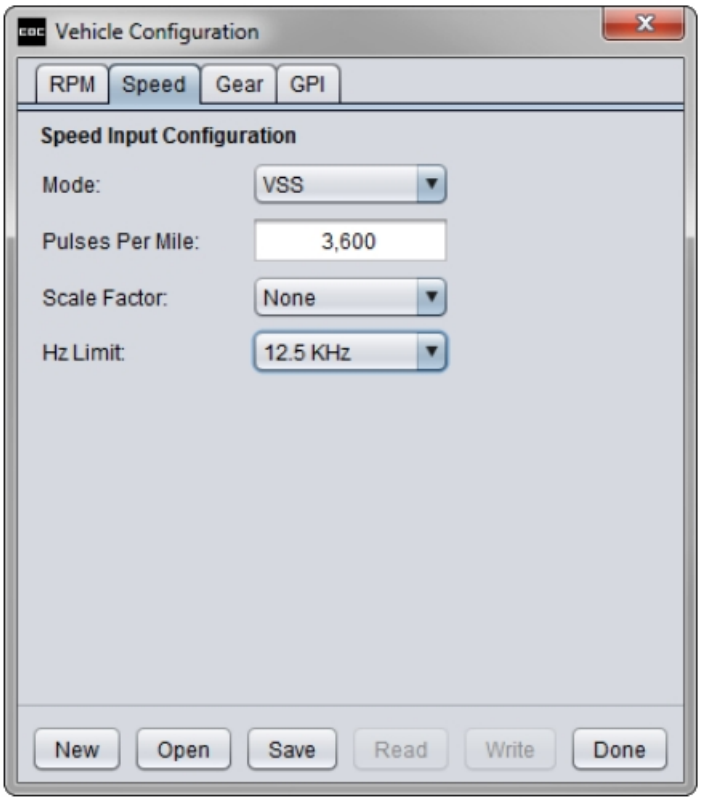
GEAR DETECTION:

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



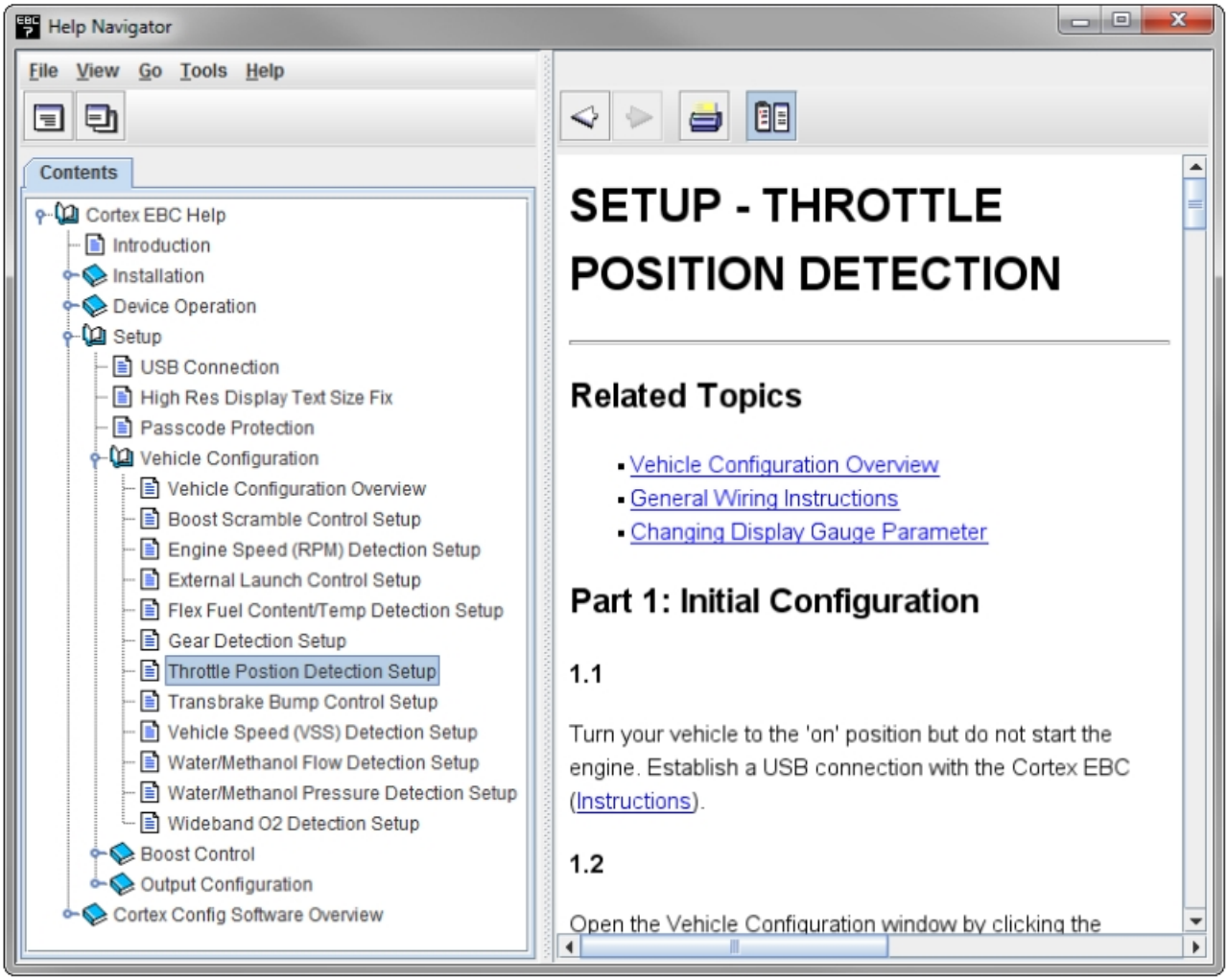
SPEED DETECTION:

- Mode: VSS
- Pulses Per Mile: 3,600
- Scale Factor: None
- Hz Limit: 12.5 KHz



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.



Documents / Resources

	MUSTANG 2018-2022 GT CORTEX EBC Specific [pdf] Instructions 2018-2022 GT CORTEX EBC Specific, 2018-2022 GT CORTEX, EBC Specific, 2018-2022 GT, CORTEX EBC Specific