

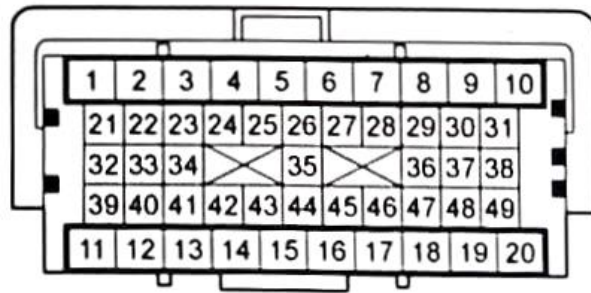
CORTEX EBC

2012-2015 Honda Civic Si Specific Instructions

Rev 2.0.0

WIRING

The 2012-2015 Civic Si ECU is in the engine bay next to the battery. The ECU has three 49-Pin connectors (A, B, C). RPM, vehicle speed, and throttle position can all be accessed at the A connector.



Terminal side of male terminals

The Cortex EBC wiring harness can be connected to ECU connector A as outlined in the following table. RPM and vehicle speed signals are required for boost by gear applications.

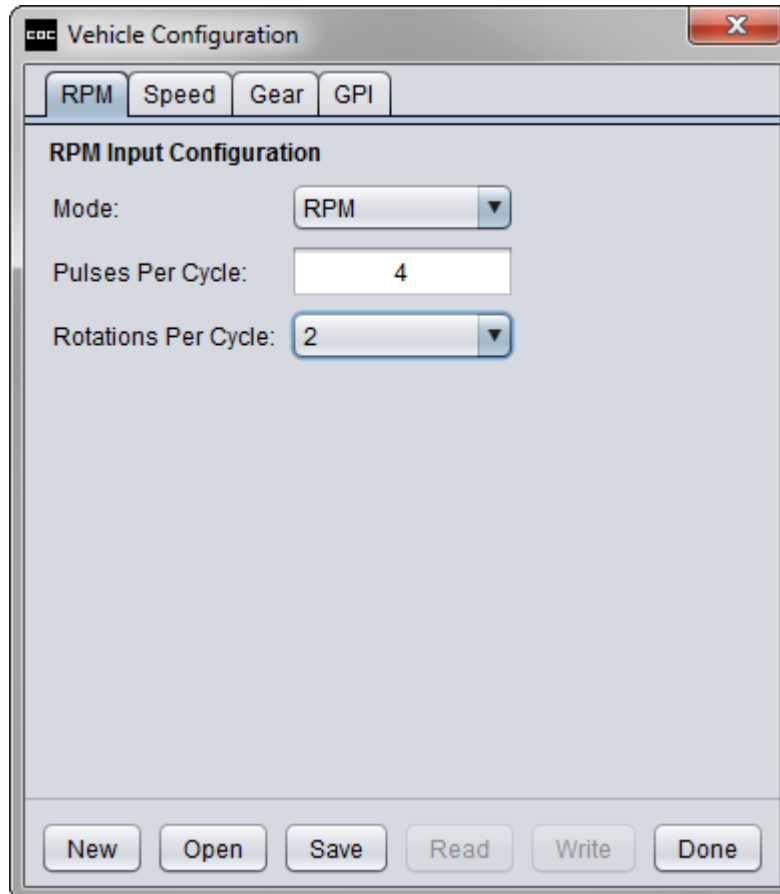
CORTEX EBC TO ECU CONNECTIONS

CORTEX SIGNAL	CORTEX WIRE COLOR	ECU SIGNAL	ECU PIN	ECU WIRE COLOR
Engine Speed	Pink	NEP (Engine Speed Pulse)	A-22	Blue
Vehicle Speed	Green	VSP (Vehicle Speed Output)	A-26	Blue
General-Purpose	Orange	APS1 (Accel Pedal Position 1)	A-28	Yellow

VEHICLE CONFIGURATION SETTINGS

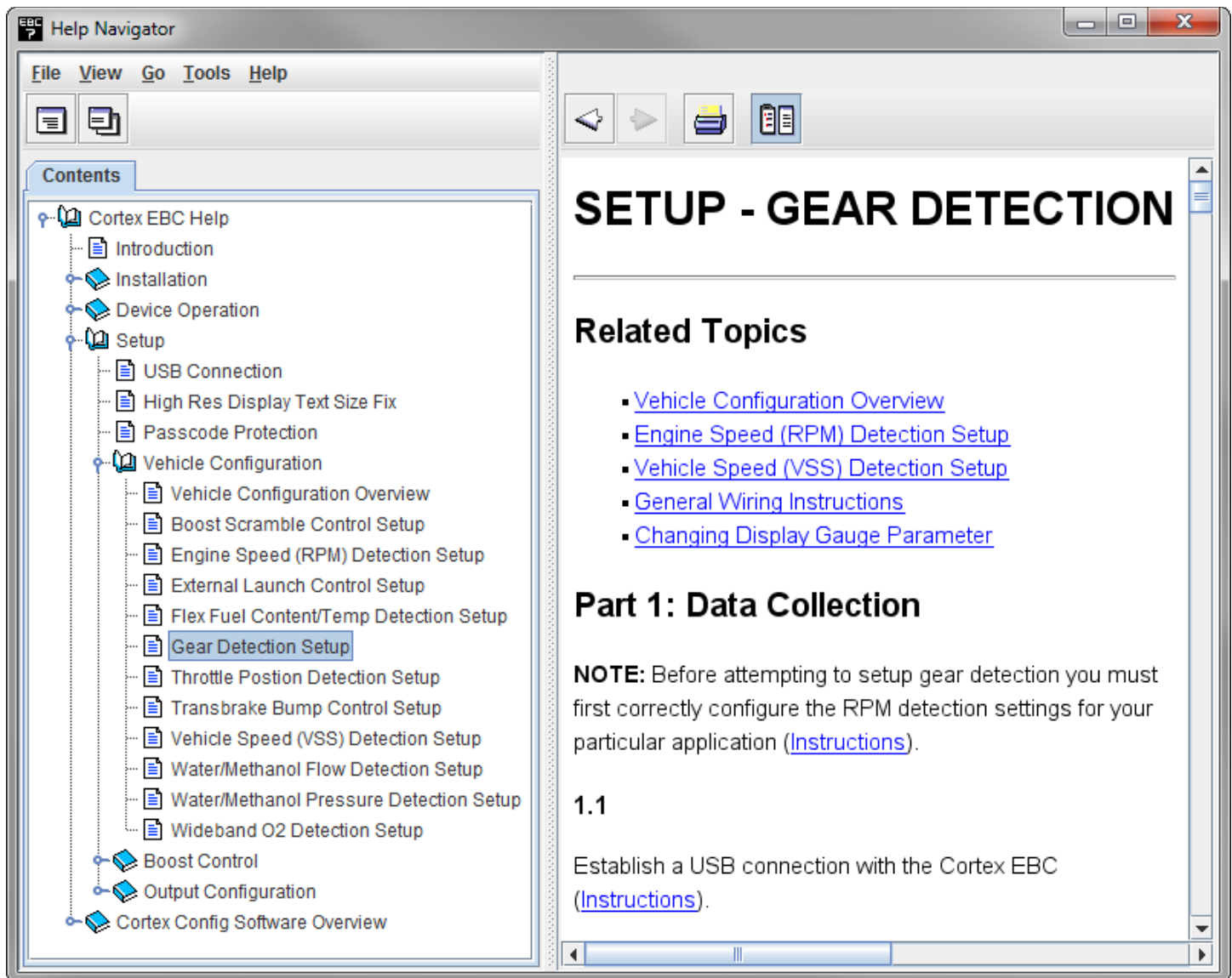
RPM DETECTION:

- Mode: RPM
- Pulses Per Cycle: 4
- Rotations 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.



The screenshot shows the Cortex EBC Help Navigator window. The left pane displays a tree view of the help contents, with 'Gear Detection Setup' selected under the 'Vehicle Configuration' folder. The right pane displays the 'SETUP - GEAR DETECTION' page, which includes a 'Related Topics' section with links to 'Vehicle Configuration Overview', 'Engine Speed (RPM) Detection Setup', 'Vehicle Speed (VSS) Detection Setup', 'General Wiring Instructions', and 'Changing Display Gauge Parameter'. Below this is 'Part 1: Data Collection', which contains a 'NOTE' about configuring RPM detection settings and a sub-section '1.1' titled 'Establish a USB connection with the Cortex EBC' with a link to '(Instructions)'.

SETUP - GEAR DETECTION

Related Topics

- [Vehicle Configuration Overview](#)
- [Engine Speed \(RPM\) Detection Setup](#)
- [Vehicle Speed \(VSS\) Detection Setup](#)
- [General Wiring Instructions](#)
- [Changing Display Gauge Parameter](#)

Part 1: Data Collection

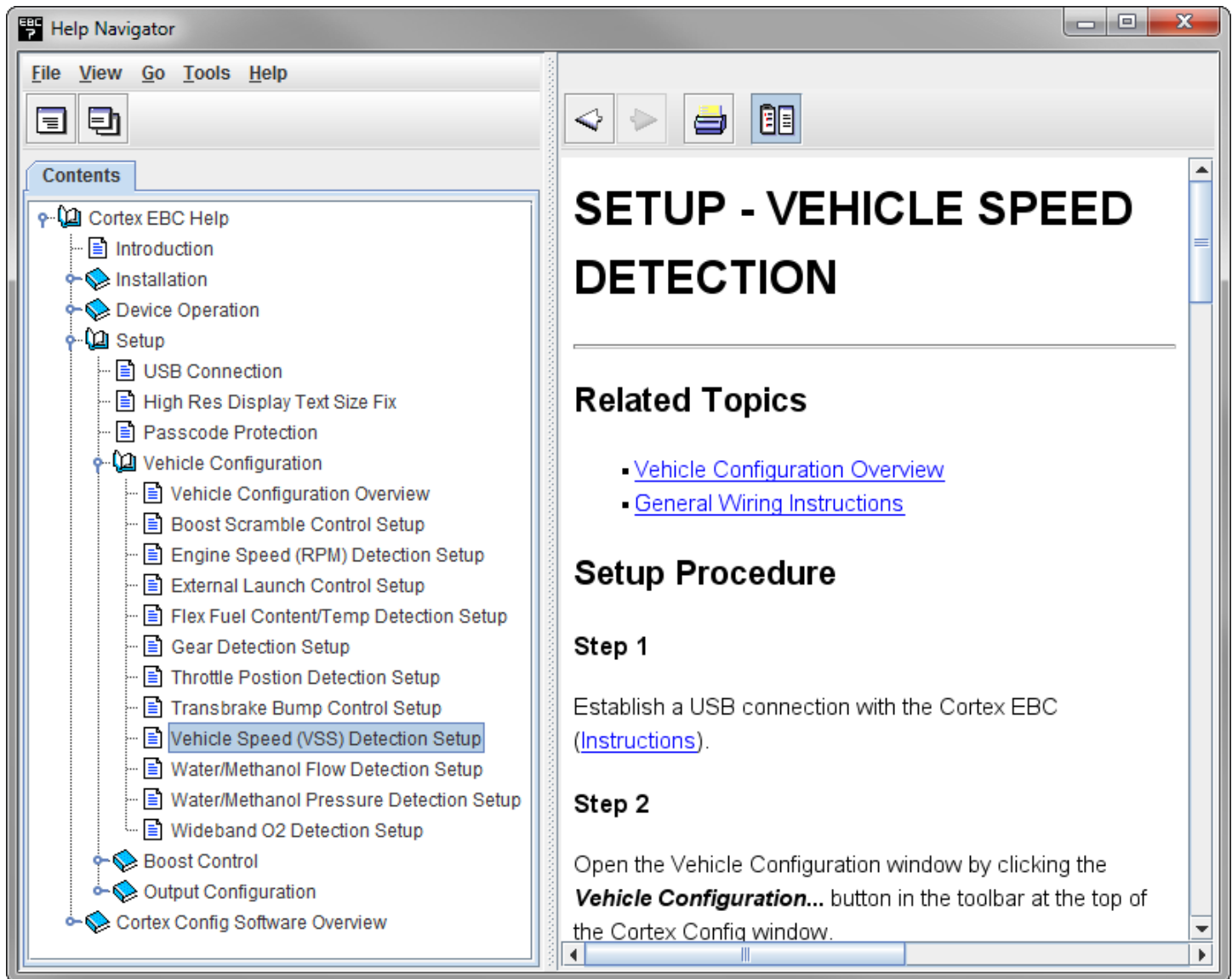
NOTE: Before attempting to setup gear detection you must first correctly configure the RPM detection settings for your particular application ([Instructions](#)).

1.1

Establish a USB connection with the Cortex EBC ([Instructions](#)).

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.



The screenshot shows a window titled "Help Navigator" with a menu bar (File, View, Go, Tools, Help) and a toolbar with navigation icons. The left pane shows a "Contents" tree with "Vehicle Speed (VSS) Detection Setup" selected. The right pane displays the following content:

SETUP - VEHICLE SPEED DETECTION

Related Topics

- [Vehicle Configuration Overview](#)
- [General Wiring Instructions](#)

Setup Procedure

Step 1

Establish a USB connection with the Cortex EBC ([Instructions](#)).

Step 2

Open the Vehicle Configuration window by clicking the **Vehicle Configuration...** button in the toolbar at the top of the Cortex Config window.

THROTTLE POSITION DETECTION:

- Mode: TPS
- Closed TPS Voltage: 1.00
- Open TPS Voltage: 4.70

