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Coding Information

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Title: PicoScope CCOS (Crankcase Oil Separator Test)

Applies To: Engines equipped with a CCOS speed sensor

## CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

09/13/2022 - Initial Article Release

## DESCRIPTION

This document was created to guide a technician through the proper steps when diagnosing a Crankcase Breather Oil Separator Speed Sensor (CCBOSS) concern.

## SYMPTOM(s)

Check engine light (CEL), intermittent sensor or circuit operation

## SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
PicoScope	1211210		
Breakout Harness	ZTSE4951		

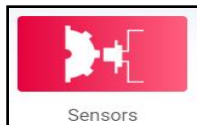
## DIAGNOSTIC STEP(s)

1. Open PicoScope software.

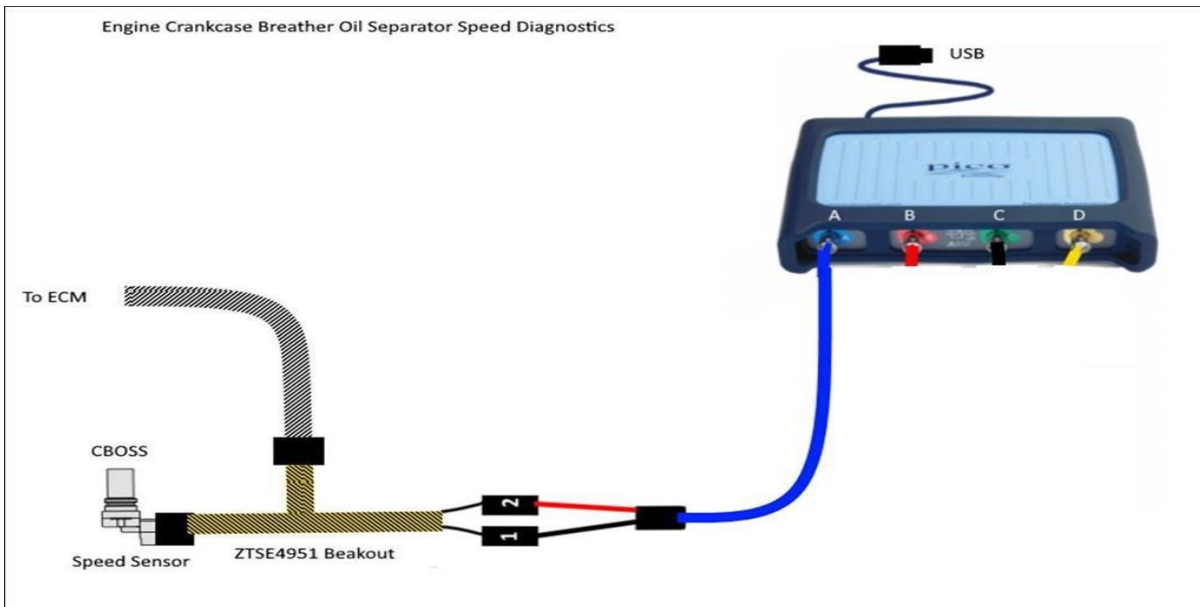


2. Open Sensors.

**Note: Prior to installation of the PicoScope identify what type of sensor is installed.**



3. Install the correct PicoScope cable and terminals to probe the sensor in question.



4. To begin operation move your cursor and tap on **RUNNING**.



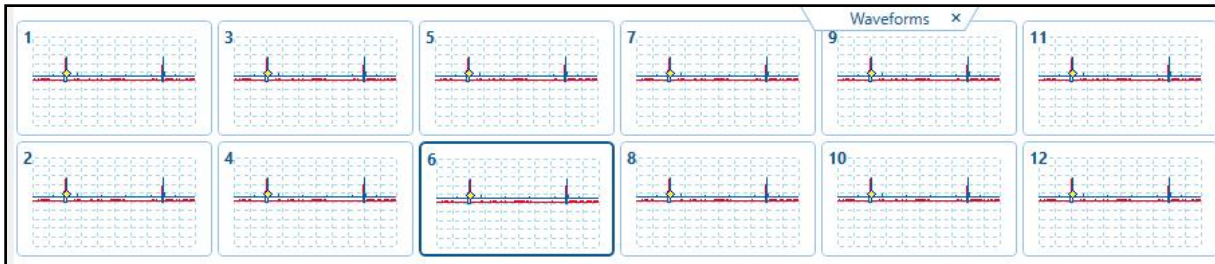
5. Verify ABS signal by rotating the tire by hand or with a road-test. After the concern has been identified move your cursor and tap on **STOPPED**.

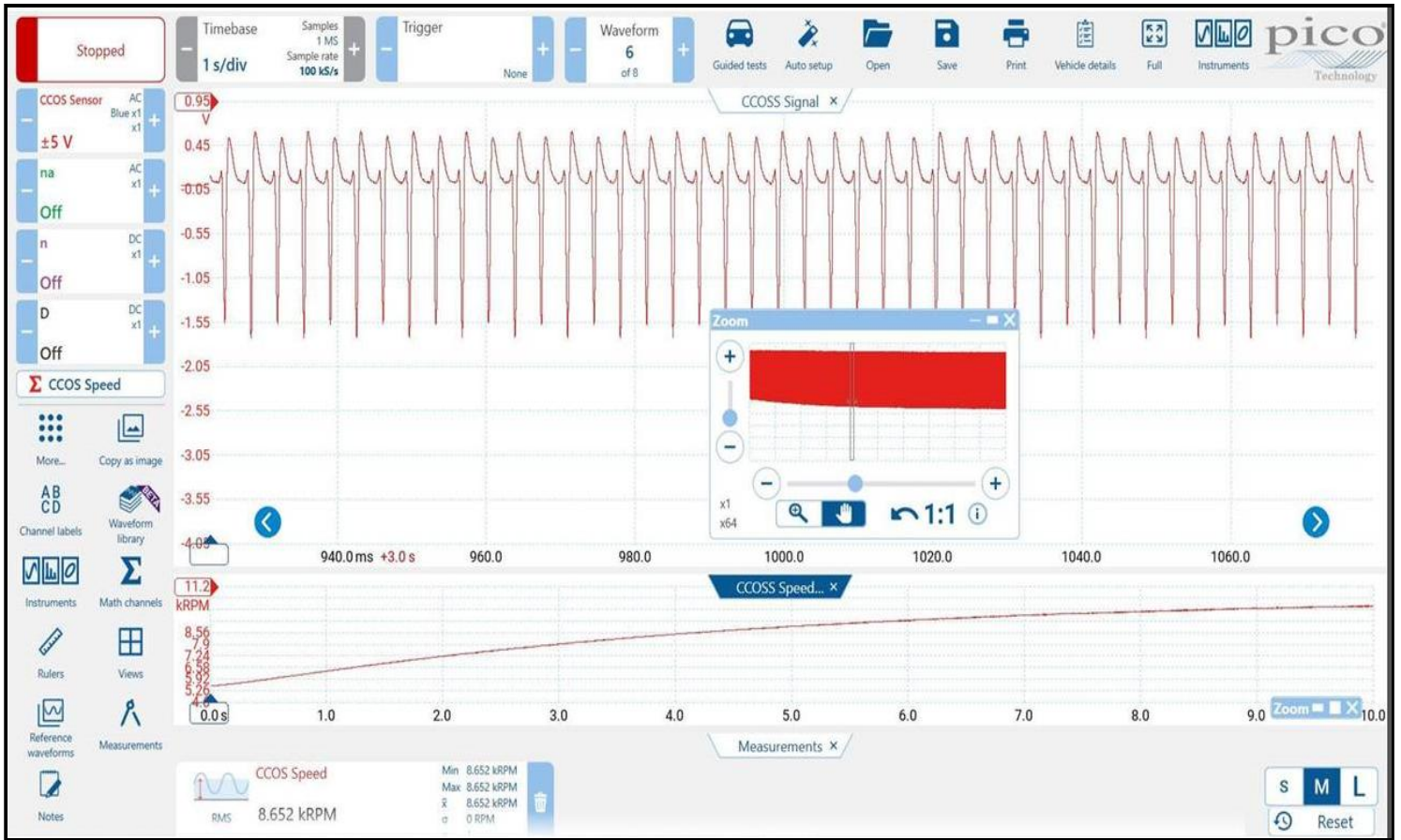


6. Review recordings tap on **WAVEFORM** see *examples below*.

## DATA ANALYSIS

Review each recording to help identify when a concern occurs by expanding out each graph and adjusting **time and division**.





## WARRANTY INFORMATION

### Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

### Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

## OTHER RESOURCES

[Master Service Information Site](#)

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