Coil-on-Plug Probe

Introduction

The Pico Coil-on-Plug (COP) Probe gives you a quick way to find misfires. It can pick up ignition patterns from coil-on-plug, single-coil and distributor ignition systems and it doesn't need batteries. You can use it with any Pico Automotive PC Oscilloscope, and with a wide variety of engine makes and models. You can also use it to pick up injector and alternator waveforms on some engines.

You can buy the probe on its own or with a special grounded cable. Here are the Pico order codes:

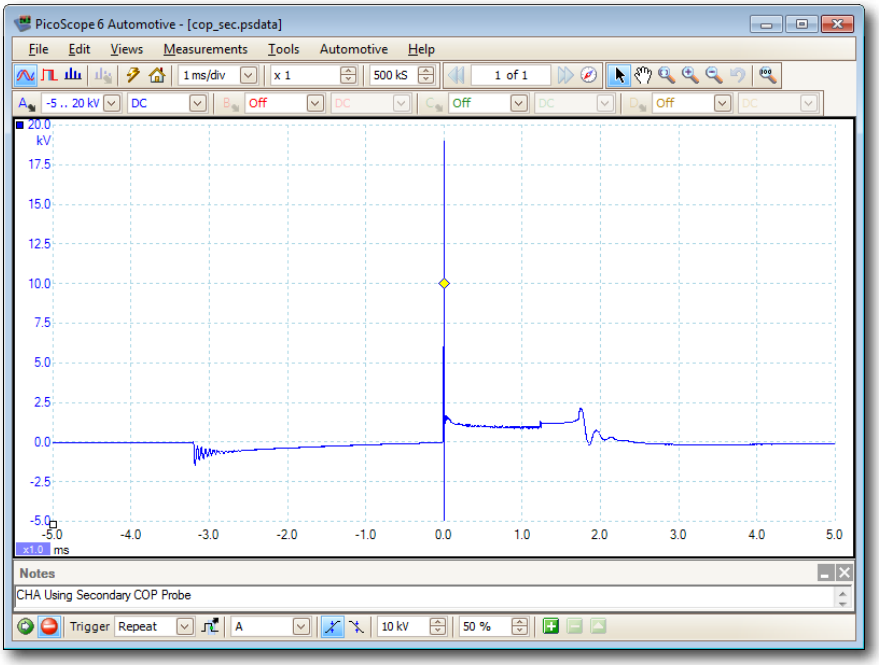
PP357	Coil-on-plug probe with 3 m (10 ft) cable
PP338	Coil-on-plug probe only
TA033	3 m grounded cable for coil-on-plug probe

Safety Warnings

Pico Technology takes no responsibility for any damage caused by incorrect use. This probe is designed to be used by experienced automotive vehicle technicians who understand the consequences of incorrect use.

It may be possible to cause a short circuit to the oscilloscope unit if incorrect connections are made. A short circuit could seriously damage the unit and will require it to be repaired at your own expense.

- Keep the probe away from hot components, such as the exhaust system
- Keep the probe away from moving parts, such as the alternator drive belt and cooling fans



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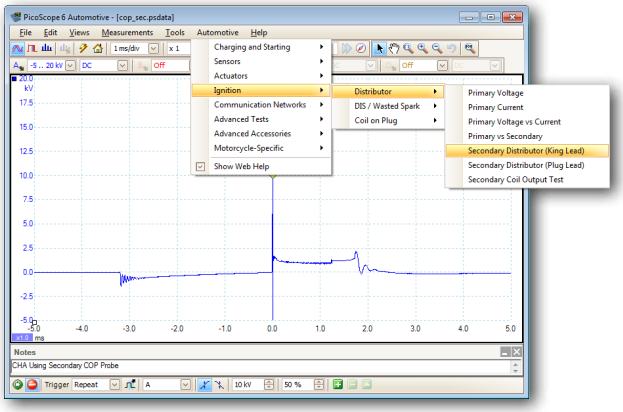
Instructions

1. Connect your Pico diagnostic PC Oscilloscope to your computer, switch on, and run the PicoScope Automotive software that was supplied on the CD-ROM with your scope.
2. Open the Automotive menu, then select Ignition, Coil-on-Plug, Secondary.
3. If you have a purpose-built grounded COP Probe cable (Pico part number TA033), connect it to the scope's Channel A input, and connect the COP Probe to the other end of the cable. Connect the cable's ground clip to a reliable ground point on the engine.



4. If you don't have a special COP Probe cable, you can make your own using the standard parts in your Pico Automotive Oscilloscope Kit. Use two BNC-to-4mm-plug test leads and a large crocodile (or dolphin) clip. Connect the two red 4 mm plugs together, and then connect the two black 4 mm plugs together. Connect the pair of black 4 mm plugs to the black dolphin clip and attach the clip to the engine block. Use the BNC plugs on the other ends of the two leads to connect the COP Probe to the oscilloscope.
5. Hold the COP Probe by the handle and rest the metal tip against the plastic casing of the coil pack. Don't let it touch any metal part of the engine.
6. With the engine running, an ignition pattern should appear on the computer screen. If you want to keep the pattern on the screen, click the red "stop sign" button at the bottom of the PicoScope window to freeze the display.

Find out more

There's more information on this probe and on a wide range of automotive accessories from Pico Technology on our website:

www.picoauto.com

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