

# UNIVERSAL COIL-ON-PLUG IGNITION FLEX PROBE KIT OPERATING INSTRUCTIONS

The Universal COP Ignition Flex Probe Kit (part number F-00K-104-944) contains a probe which is designed to be used with most domestic and import coil-on-plug (COP) vehicle ignition systems with accessible coils. The probe provides easy access for secondary ignition pattern comparisons on coil-on-plug ignition systems using the MTS 5200 Engine Analyzer.

The kit consists of the following components:

ORDERING PART NUMBER	PART NUMBER LABEL ON PROBE	DESCRIPTION	USE
F-00K-104-945	1 687 224 993	Probe: Universal COP Ignition Flex	Used on coil-on-plug systems with accessible coils

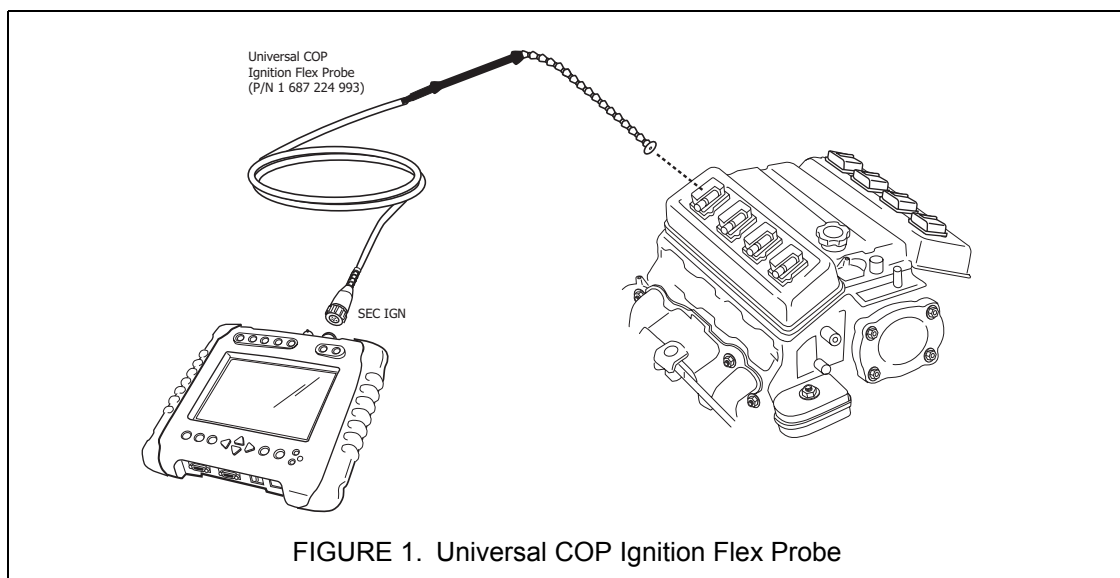


FIGURE 1. Universal COP Ignition Flex Probe

## VEHICLE COVERAGE AND ACCURACY

- The flex probe included in this kit provides universal access to most coil-on-plug ignition systems with accessible coils, even when other ignition leads do not. Although most coil-on-plug systems are supported by this probe, some ignition systems do not emit a strong enough signal to obtain an adequate reading for comparison and diagnostics using this probe.
- The Universal Coil-On-Plug Ignition Flex Probe serves as a quick analysis tool for use in the analyzer's Secondary Quick Check mode. Ignition voltage measurements made using this probe are primarily used

for comparison measurements between individual ignition coil circuits. Voltage readings observed on the tester may not represent actual voltage levels in the circuit.

**WARNING!**



**SAFETY INSTRUCTIONS**

- Do not attempt to touch moving or rotating parts with this probe when the engine is running. Always make sure when using these probes that it does not come into contact with moving parts.
- Do not route tester cables near moving parts.
- Ignition systems produce high voltages which can cause serious injury or death when direct contact is made with defective and disassembled ignition components. To avoid shock from electrical systems while vehicle is in operation, always inspect ignition components under test before connecting test equipment.

## CONNECTION AND OPERATION

### Universal COP Ignition Flex Probe

Use this probe when performing diagnostics on most secondary ignition coil-on-plug systems.

1. Turn on the engine analyzer and select *Secondary Quick Check* from the tester's main menu.
2. Connect the circular black connector of the Flex Probe to the **SEC IGN** input of the analyzer.
3. With the vehicle running, place the tip of the flexible probe as close to the ignition coil as you can to obtain a signal.
4. When a signal appears on the tester's screen, adjust the Volts/Div setting for optimum signal viewing.
5. Repeat steps 1-3 to view each cylinder for comparison.

Please note that when comparing measurements of individual cylinders, the probe must always be held at the same distance and position to the coil for each cylinder being analyzed.