

Coil on Plug

Coil near PLUG

Distributorless Ignition Systems (DIS)

Conventional Distributor Ignition Systems



Simple and easy to use

- ▶ Select the ignition system to be measured (spark plug wire or coil on plug), and the number of cycles.
- ▶ Place the capacitive pick-up (yellow tip) on top of the spark plug wire or ignition module.
- ▶ Read spark burn (firing) time, spark peak voltage and engine RPM on the LCD display.

How it works

The TA500 Smarttach+COP Multisystem Ignition Analyzer unique and proprietary technology allows the user to perform quick and reliable diagnostics of non-starts, misfires, fouled up or damaged spark plugs and/or spark plug wires, by comparing digital read-outs of the spark plug voltage and spark burn time between cylinders on engines using coil on plug, coil near plug, conventional distributor/ignition coil, DIS (distributor-less) or waste spark and magneto technologies.

Simple to use, the TA500 requires no special adapters, cables or scope and is equipped with a large digital display that shows spark plug voltage, spark burn time, engine RPM, as well as maximum and minimum readings in real time.

TA500

Multisystem Ignition Analyzer



Special COP mode:

- ▶ New and unique technology for testing coil on plug and coil near plug systems produces more consistent and reliable results.

Quick and easy diagnostics of:

- ▶ Non-starts
- ▶ Misfires
- ▶ Defective coils
- ▶ Fouled or damaged spark plugs
- ▶ Damaged spark plug wires

No special adapters, cables or scope required:

- ▶ Measures and displays in real time
- ▶ Spark plug voltage
- ▶ Spark burn (firing) time
- ▶ Engine RPM
- ▶ Maximum and minimum readings

Technical Specifications

Display:

- ▶ Large 4½ digit LCD main display and two 3½ digit secondary displays
- ▶ Measuring units indicator
- ▶ Measuring function indicator
- ▶ Spark detection indicator
- ▶ Maximum and minimum readings
- ▶ Low battery indicator

RPM measurement

- ▶ Range: 200 to 19,999 RPM
- ▶ Resolution: 1 RPM
- ▶ Accuracy: $\pm 0.5\% + 1 \text{ LSD}$

Spark burn (firing) time

- ▶ Range: 0 to 10.0 mS
- ▶ Resolution: 0.1 mS
- ▶ Accuracy: $\pm 0.1 \text{ mS} + 1 \text{ LSD}$

Spark (peak) kV

- ▶ Range: 0 to 50 kV
- ▶ Resolution: 0.1 kV
- ▶ Repetitivity: $\pm 0.2 \text{ kV}$

Response time:

- ▶ < 300 mS (above 200 RPM)

Flexible probe:

- ▶ 12" (30 cm) long with capacitive pick-up

Power Source:

- ▶ 9-volt battery type NEDA 1604

Battery life:

- ▶ Approximately 20 hours (w/alkaline battery)

Power Saving:

- ▶ Automatic power off after 3 minutes of inactivity

Dimensions:

- ▶ 6.1"(H) x 4.0"(W) x 1.5"(D) or
155 mm x 102 mm x 38 mm (without probe)

Weight:

- ▶ 12.4 oz or 355 g (w/battery)

TA500 set includes:


- ▶ TA500
- ▶ Protective rubber holster
- ▶ Hard carrying/storage case
- ▶ 9 Volt alkaline battery
- ▶ User manual
- ▶ 1 year parts and labor warranty

Applications:

- ▶ Automotive
- ▶ Industrial
- ▶ Aviation
- ▶ Agricultural
- ▶ Marine



Other GTC products

 Product designed and manufactured in Canada



ST05
Oxygen Sensor
Tester and
Simulator



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Professional Cordless
Computer-Safe
Circuit Tester



FF310
FaultFinder
Open and Short Circuit
Finder and Tracer



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From 1 mA to 1000 A
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Clamp Meters



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From -20° up to 1400 °F
Infrared Thermometers
with Laser Sight



CT Series
Automotive and
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Multimeters



TA110
Laser Tachometer and
Counter

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15/03/13

Printed in Canada