

## C Diagnostic Equipment

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### Diagnosis – Diagnostic Test Overview

The following is an overview of the contents of the various tests possible with the engine analyzer. Detailed information regarding test scope and evaluation is given in the individual test sequences. Engine specific test and adjustment data are covered in section A. Repair procedures are available in the appropriate service literature.

#### System test

- Diagnostic trouble code (DTC) readout
- On-off ratio readout

#### Engine adjustments/universal program

- Battery voltage
- RPM, dwell
- Ignition timing
- On-off ratio control
- Ignition voltage
- Charging current
- Vacuum
- Engine oil temperature

#### Engine electrical

- Battery test
- Starting test
- Ignition coil test (primary)
- Generator test
- RPM
- Engine oil temperature
- Graphic displays

#### Idle quality/per cylinder

- Idle quality/Starting test
- Burn time per cylinder
- Engine oil temperature
- Graphic displays
- Table displays

#### Individual cylinder analysis

- Compression/starter current draw
- RPM
- Balance
- Ignition system (secondary)
- Battery voltage
- Engine oil temperature
- Table displays

#### Oscilloscope

- Parade pattern
- Individual pattern
- Raster pattern
- Additional signals  
(i.e. TN/on-off ratio, position sensor)