

# Section 1

## Engine Diagnostic Equipment

- Digital Multimeters
- Borescopes
- Electronic Listening Tools
- Gas Leak Detectors
- EVAP Emissions Tester & Accessories



**TOYOTA**

**APPROVED** DEALER EQUIPMENT

### Section 1:

*This section features a selection of Engine Diagnostic Equipment available through the Toyota Approved Dealer Equipment program. All product has been reviewed and approved by Toyota Motor Sales, USA.*

### Suppliers:

- Advanced Test Product (TIF) / A Division of SPX
- Fluke
- JS Products
- Lenox Instrument Company, Inc.
- Snap-on Tools
- Worldwide Vapor, Inc.

*For additional product information or to contact a program representative*

**CALL: 1-800-368-6787**

***Snap-on***  
***Equipment Solutions***



## Digital Multimeters:

This is an introduction to Digital Multimeters. Some things to consider when shopping for Digital Multimeters and/or related accessories, would be:

- Look for a multimeter for measuring milliamps with an ammeter function that is fused for 10A or 20A, so if you overload the circuit you can just replace the fuse. Great for measuring low amperage draw on key-off situations.
- Diode and pulse-width measurements are a plus!

*When considering a purchase of any capitol equipment, please contact your regional manager at 1-800-368-6787 for assistance in configuring the proper set-up for your environment.*

### DIGITAL MULTIMETERS

SUPPLIED BY: FLUKE

#### Digital Multimeters

These meters have the features needed to repair most electrical, electronic, and HVAC problems. Installed 9V battery, test leads and users manual included in all models.

#### Features

- Digital display with analog bar graph.
- Manual and automatic ranging.
- Rugged over molded case.

#### Models

- FLU77-3 - Auto Ranging Digital Multimeter.
- FLU177 - True RMS Digital Multimeter.
- FLU179 - True RMS Digital Multimeter. Measures temperature in °C and °F, thermo-couple included.



FLU179

### DIGITAL MULTIMETERS

SUPPLIED BY: SNAP-ON TOOLS

#### EEDM586DK - Automatic Automotive Digital Multimeter

The EEDM586DK Digital Multimeter features an LCD display, Record Mode for storing readings and IP, IG (Automotive Functions) to measure RPM, Duty, Dwell, mS pulse width and frequency. For improved accuracy when performing low voltage measurements, this multimeter has an additional 40mV range with 0.01mV resolution. Includes: 500mA ceramic UL fuse, 10 Amp ceramic UL fuse, test lead set with alligator clips, temperature input adaptor, temperature probe, inductive pick-up, rubber boot, hard carrying case, instruction manual and a 9 volt alkaline battery (installed).



## BORESCOPIES

SUPPLIED BY: LENOX INSTRUMENT COMPANY, INC.

### Autoscope Kits

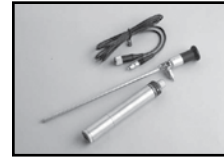
This optical diagnostic tool lets technicians inspect diesel and gasoline engines, engine cylinders, valves, manifolds, fuel injectors, carburetors, radiators, and body panels without major disassembly, giving them a bright clear magnified image of potential problems.

#### Features

- Autoscope provides a probe diameter of either 6 mm or 8 mm.
- Field of view of 70 degrees.
- Focus from 1/4" to infinity.
- Working lengths of 9 inches or 15 inches.
- Includes eyepiece and probe with internal lens and light system, battery pack, battery extension cord and storage/carrying case.

#### Models

- LEN6600K900 - Autoscope kit. 8.0mm diameter, 9" length with right angle viewing.
- LEN6600K1500 - Autoscope kit. 8.0mm diameter 15" length with right angle viewing.



**LEN6600K1500**

## ELECTRONIC LISTENING TOOLS

SUPPLIED BY: JS PRODUCTS

### JSPSM65001 - EngineEAR Electronic Stethoscope

Saves time when troubleshooting by pinpointing the noise and location of worn bearings & bushings, noisy valves & lifters, broken or worn gear teeth, faulty fuel injectors, wind or air leaks, and annoying squeaks and rattles. Amplifies sound while shutting out surrounding noise. The non-conductive microphone will not zap computer circuitry and the inductive metal probe is perfect for working around hot surfaces. Features a flexible shaft that reaches the tightest areas. Includes EngineEAR, headphones, and rugged case.



### JSP06800 - EngineEAR II Advanced Electronic Stethoscope

All the features of the EngineEAR plus the analog decibel meter allows interpretation of sound on 7 controlled sound levels (60 dB - 120 dB) and also detects when the battery is low. Includes EngineEAR II, headphones, and rugged case.



### JSPSM06400 - TracerEAR Electronic Stethoscope

Assists in pinpointing noise and location of worn bearings & bushings, noisy valves & lifters, broken, worn gear teeth, faulty fuel injectors, wind or air leaks, annoying squeaks and rattles. Amplifies sound while shutting out surrounding noise. The non-conductive microphone will not zap computer circuitry. Features a flexible shaft that reaches the tightest areas. Includes TracerEAR and headphones.



## ELECTRONIC LISTENING TOOLS

SUPPLIED BY: JS PRODUCTS

1-3

### JSPSM06600 - ChassisEAR Multi Microphone Stethoscope

Assists in pinpointing noise and location of worn bearings & bushings, noisy valves & lifters, broken, worn gear teeth, faulty fuel injectors, wind or air leaks, annoying squeaks and rattles. Hear noises that can not be duplicated in the stall. 6 microphones with alligator clips allow user to listen to 6 locations in one road test. While testing, select each of the 6 microphones individually to pinpoint noise location. Includes ChassisEAR, headphones and rugged case.



### ChassisEAR and EngineEAR Electronic Stethoscope Combo Kits

Saves time when troubleshooting by pinpointing the noise and location of worn bearings & bushings, noisy valves & lifters, broken or worn gear teeth, faulty fuel injectors, wind or air leaks, and annoying squeaks and rattles. Amplifies sound while shutting out surrounding noise. The non-conductive microphone will not zap computer circuitry and the inductive metal probe is perfect for working around hot surfaces. Features a flexible shaft that reaches the tightest areas. Includes ChassisEar, EngineEAR, headphones and rugged case.

#### Features

- 6 microphones with alligator clips allow user to listen to 6 locations in one road test.
- Hear noises that can not be duplicated in the stall.
- While testing, select each of the 6 microphones individually to pinpoint noise location.

#### Models

- JSPSM06606 - Combo ChassisEAR and EngineEAR.
- JSP06608 - Combo ChassisEAR and EngineEAR II.



JSP06608

## GAS LEAK DETECTORS

SUPPLIED BY: ADVANCED TEST PRODUCT (TIF) / A DIVISION OF SPX

### TIF8800A - Gas Leak Detector

This highly reliable broadband combustible gas detector is extremely useful as a general-purpose tool in any environment where gasoline, propane, natural gas or fuel oil is used. As a combustible gas or vapor source is approached, a "Geiger counter" signal increases in frequency and the red lights illuminate in sequence, to show the intensity of the leak. Now you can see and hear your way to pinpointing dangerous leaks. This instrument has many applications such as checking tanks and valves or checking for faulty, leaking automobile exhaust systems.



## EVAP EMISSIONS TESTER AND ACCESSORIES

SUPPLIED BY: WORLDWIDE VAPOR, INC.

### ETI2000E - VACUTEC EVAPro Smoke Machine

The quick, safe and easy way to find fuel evaporative (EVAP) emission leaks. The versatile design also allows for additional leak-testing and diagnostic capabilities such as vehicle intake manifold system leaks and many other closed systems. Utilizes OEM-approved licensed technology from STAR EnviroTech, Inc., the only technology designed for and capable of being used with nitrogen. All accessories included.

