

SUN[®] DDC DYNAMIC DATA COLLECTOR



The SUN Dynamic Data Collector for your SUN Machine is now available exclusively from SNAP-ON.

The new SUN Dynamic Data Collector from SNAP-ON combines fast automated test sequences and sophisticated custom test capabilities in a versatile new format, designed for technicians of every skill level. Put these advanced diagnostic tools at your technicians' fingertips by adding the Dynamic Data Collector to your SUN Machine.

Two, complementary yet completely separate diagnostic applications are built into the Dynamic Data Collector, including ABS brake and engine control diagnostics. Complete system electronics, including all sensors, actuators and circuits making up the engine control or ABS system, can be diagnosed down to the component level. Direct, single-point connection to the system is made using only one vehicle-specific adapter

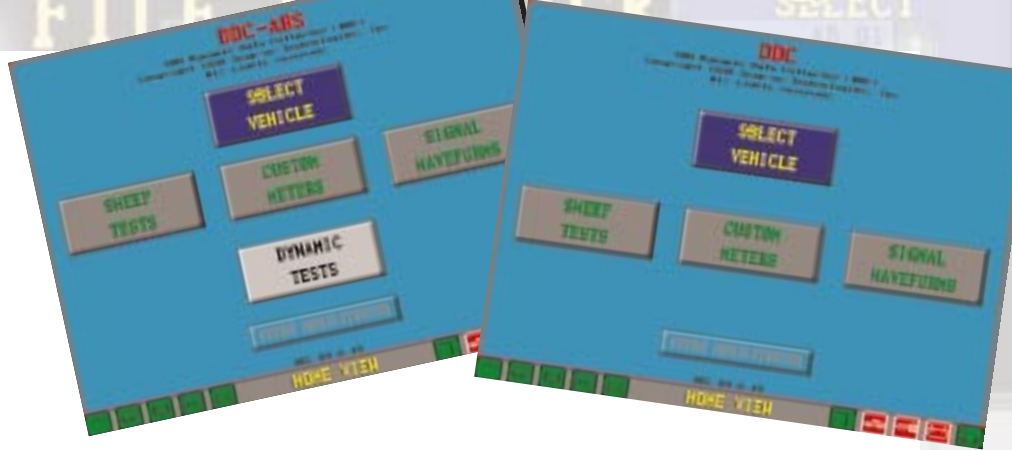
cable. The cable T's between the vehicle's computer and wiring harness, enabling the Dynamic Data Collector to analyze and display in real time all of the signals entering and exiting the ECM or ABS computer, as well as send signals generated by the Dynamic Data Collector.

An intelligent database built into the Dynamic Data Collector contains comprehensive VIN-specific OEM specifications on the components and circuitry of each vehicle, enabling the quick identification of suspect areas. Plus, both screen-specific as well as general help is always available at the click of a mouse button, in addition to such vehicle-specific technical information as ECU/ECM or ABS computer locations, recommended testing procedures,

and more. The Dynamic Data Collector currently supports the engine control and ABS systems of most major domestic and import vehicle manufacturers.

A powerful added dimension of the Dynamic Data Collector is its ability to capture live vehicle control system signal data while road testing the vehicle. A cigarette lighter adapter and remote control cable connected to the Dynamic Data Collector let you capture up to 10 minutes of the signal data events which indicate the causes of intermittent and hard-to-find driveability problems. When you return to your service operation, the self-configuring lab scope of the Dynamic Data Collector lets you view in detail the recorded signal data output.

Dynamic Data Collector is flexible, versatile.



Automated Sweep Tests

- Automatically "sweep" the entire engine control and/or ABS system in seconds, testing the sensors, actuators, ground lines and reference voltages for proper operation against pre-defined min/max voltages.
- Display pass/fail results for each component or function tested.
- Display comprehensive diagnostic messages for each device or function flagged as out of spec.
- Retest one or more signals in either the fully automated or the manual mode to confirm an out-of-spec result.



Automated sweep tests deliver pass/fail, diagnostics down to the component level in sixty seconds.

Fully Self-Configuring Six-Trace Lab Scope

- Simultaneously capture and analyze up to 80 different "live" signals.
- Display up to six waveforms on the host monitor screen at one time for easy viewing and analysis.
- View the live signals in digital display format side-by-side with waveforms.
- Scope channels are preset to the proper volt/time scales with pin identification.
- Resettable volt/time scales, trigger source and voltage.
- Record, play back and save to disk all data captured.



Direct, single point connection to the system is made using only one vehicle-specific adapter cable.

Pre-Configured or Custom Meters

- Select a set of preconfigured meters in versatile display formats for the specific vehicle under test.
- Dynamically view in real time the performance of the various sensors, actuators and circuits in the vehicle's engine control or ABS system.
- Design and construct custom meters (analog, digital, switch) preconfigured for the diagnostic tasks most frequently performed on specific makes and models of vehicles.

Versatile Tool Box

- Take advantage of a fully integrated multi-meter as well as single trace scope to perform pinpoint testing using the standard test probes cable.
- No connection to the vehicle's on-board computer required.



The compact, portable Dynamic Data Collector goes on the road for dynamic testing under actual road conditions.

ABS Dynamic Tests

- Dynamically test (without leaving the service bay) each ABS anti-lock function including ABS antilock control module and solenoids.
- Verify proper operation of the anti-lock function/ABS control system under simulated brake lockup conditions.

Reference Waveforms And Other Signal Info

- Compare the signal waveforms to those of known "good" or "bad" signals selected from a built-in library of reference signal waveforms.
- Display information on each of the signals selected, including a description of the signal's function and its OEM specifications.
- Create a history file (snapshot) containing all pin voltages measured for use as a reference source the next time the vehicle comes in for servicing.

Flight Recorder Capabilities

- Captures and records the "live" signal data of critical vehicle control system components and circuits under actual operating conditions.
- Remote control operation via remote control cable.
- Captures up to 10 minutes of live signal data for lab scope viewing.

User Friendly

- All data captured can be played back for more detailed analysis, as well as saved to disk for later retrieval.
- Intuitive, graphical user interface with menu-driven, full color display.
- Customer and technical report printing for full documentation via host printer.

The Dynamic Data Collector works well with SUN Machine.

