Scan Tools
- Leak Detection
- Scopes
  - Misfire Detection
  - Inspection Camera
  - Gas Analyzers
- Induction Cleaning
- Training Products

The choice of the professional technician

www.AutomotiveTestSolutions.com

800.572.6112

Fall 2018
Dennis Williams

“If my shop burned to the ground the first call I would make would be to the insurance agent, the second call I would make would be to order my new ATS diagnostic equipment.”

Dennis Williams
Williams Automotive Inc.
ASE Master Tech L1
Professional Technician for 36 years
Using ATS Equipment for 9 years
**eSCAN ELITE - Diagnostic Intelligence System DIS**

- Automated MAF testing for operational verification at all load and RPMs
- Fuel Trim Analytics – Plot fuel trim in load/RPM matrix – Know exactly where fuel trim deviates from spec.
- Catalytic converter fast accurate diagnosis
- Volumetric Efficiency Calculation – Diagnose engine mechanical and pumping problems
- Never miss anything – Unlimited data recording with zoom and playback
- Mode 6 - Decoded into plain English
- Power Test calculates horsepower at the flywheel
- Fuel Efficiency Test calculates how well the fuel is being used
- Temperature Test finds cooling system problems
- Relative Compression Test **NEW!**
- Accelerometer Power Test **NEW!**
- Accelerometer Braking Test **NEW!**
eBOB - DLC Breakout Box

- Just plug the EBOB into the vehicle’s DLC
- Automatically checks powers and grounds
- Quickly allows you to check the communication buses
- LED’s show if any communication voltage changes are present
- Quick banana jack connections for meters, logic probes, or scopes
- Quickly access data for analysis of communication problems
- Fused power lead can be used for quick 12 volt supply to power scan tool

(EScan Elite not included)
LIGHTBRIGHT - Back Probes

- Back Probe allows you to see the electrical connection point in dimly lit areas.
- Make connections easy using only one hand in tight areas.
- Self-powered circuit uses super bright light emitting diode (LED).
- LED is a white light that will not change the color of wiring.
- Standard banana jack connects to most electronic measuring equipment.
- Back probe has replaceable stainless steel pin.
- Set of 4 colors; yellow, red, green, blue.
Brandon Steckler

“The eSCOPE ELITE4 is everything I’ve come to expect from ATS. It has all the capture capability of the 8 channel eSCOPE PRO, but within a 4 channel scope. Being that it is incorporated into a highly-capable Surface Pro tablet, I get the convenience of a hand-held with all the power of an ATS tool and the speed/clarity/internet access of today’s tablets. It's encapsulated in metal, like a Tank! I'm confident my ELITE4 will serve me well for a long time!”

Brandon Steckler
Advanced Automotive Diagnostics and Repair
ASE Master Technician, L1, L2, L3, X1
Professional Technician for 18 years
Using ATS Equipment 10 years
Capture All Data: ATS’ unique circular buffer system does not drop data.

Ultra Sharp Waveforms: No need for filters that can mask data. ATS designs our scopes so the signal is accurate and clean.

Dual Time Base: This allows two different frequencies to be displayed on one screen with two different scope displays, simultaneously.

Pull Down Circuit: A Controlled pulse that sinks power from vehicle circuit to ground. Control circuits like ignition coils, fuel injectors and solenoids.

TTL Output: Sends a 0-5v square wave signal out of scope. Turn on devices such as ignition coil drivers, test vehicle’s circuits, and test vehicle’s circuits for loading.

Automatic Test Lead Connection Detection: This unique feature allows you to know the scope lead has a good connection. “Red”= Bad connection. “Green”= Good connection. It’s that easy!

Patented Overlay Technology: ATS’ unique programming overlays an engine cycle grid over your waveforms.

Automatic voltage attenuator: Just change the voltage setting and the scope does the rest.

Deep Record Function: No time, voltage, or trigger setup needed.

Pressure Transducers: Drives four pressure transducers at once.
“At first the ATS equipment looked intimidating to me but at a demo I tried the eSCOPE PRO. I realized how easy it was to use and how intuitive the software was. So, I bought an entire Diagnostic System. I haven’t looked back since.”

Rick O’Neil
Advanced Auto Electric
ASE Master Tech L1, TST Hands-On L5
Professional Technician for 35 years
Using ATS Equipment for 11 years
eSCOPE PRO - 8 Channel scope

- Display on any Windows computer – Any display size you like
- Record it, graph it, analyze it, share it, print it for the customer
- Deep Record Buffer – Hook up and go
- Playback and analyze in the comfort of the shop
- Continuous recording – Never drop data like other digital scopes
- Display and record at 2 time bases at once – Slow for 02 and fast for injector signals
- Support for 4 Pressure Transducers – Read in PSI or vacuum not voltage
- Command and operate actuators
- Built in sensor simulator
- Circuit connection detection – Connection verification
- 16 bit ADC for ultra-clear resolution

www.automotivetestsolutions.com       800-572-6112
Guada Garcia

“ATS equipment has changed my mindset on how to diagnose vehicles. This equipment allows me to find difficult problems quickly and accurately and ATS support is the best in the business.”

Guada Garcia
Independent Vehicle Services
ASE Master Tech L1
Professional Technician for 18 years
Using ATS Equipment for 10 years
IEA - Intelligent Engine Analyzer

Comprehensive transducer kit with software for misfire detection and advanced engine mechanical analysis. For use with eSCOPE PRO, eSCOPE LTD or eSCOPE ELITE4.

Find misfires fast from exhaust pressure pulses – Saves hours of diagnostic time

► Easy 3 step process for misfire detection
  1. Connect transducer to exhaust
  2. Connect to ignition trigger
  3. Automatically locates misfires

► P0300 random misfire – No problem

► Quickly identify misfiring cylinders

► Counts and reads in misfire percentage

► Easy 3 step process for engine mechanical issues
  1. Remove spark plug
  2. Connect pressure transducer
  3. Automatically checks compression waveform

► Advanced engine mechanical analysis of:
  • valve sealing
  • valve springs
  • flat cam lobes
  • lifter problems
  • camshaft timing issues
  • wrong camshafts
  • piston sealing
  • restricted exhaust
  • any pressure/vacuum system

► Check camshaft timing quickly and accurately

► Catalytic converter back pressure from the spark plug hole – No drilling holes in exhaust systems or removing stuck O2 sensors

► Compression waveform will identify and accurately diagnose engine mechanical issues
eCOP - Ignition Pickup

- Convert your scope into a powerful ignition analyzer
- Identify engine drivability problems
- Provides ignition waveforms for analysis
- Works on all types of ignition systems
- Quickly attaches to the ignition system
- Works on all oscilloscopes
Capacitance Decade Box
- Quickly test automotive electric circuits
- Simulate sensors in air bag systems
- Remove electrical noise from electric and electronic circuits
- Fast banana jack connections
- Simple switch adjustment to dial in capacitance values
- Use with scan tools, meters, or scopes

Resistance Decade Box
- Quickly test automotive electric circuits
- Simulate automotive sensors for testing
- Easy to install resistance box into circuit to be tested
- Fast banana jack connections
- Simple switch adjustment to dial in resistance values
- Use with scan tools, meters, or scopes
Sherwood Cooke

“The BULLSEYE Leak Detector quickly found leaks in two different vehicles that we had been trying to find for weeks. With the Bullseye Leak Detector both vehicles took less than 20 minutes each! My only regret is waiting so long to purchase it.”

Sherwood Cooke
Royalty Auto Service
ASE Master Tech L1
Professional Technician for 31 years
Using ATS Equipment for 9 years
BULLSEYE Leak Detector™
Patented w/Additonal Patents Pending

BULLSEYE Leak Detector

► Fast – Easy – Accurate
► CO2 Gas Pressurization – Safe – Easy – Effective
► Electronic CO2 leak detector to quickly zero in on leak site
► Color changing foam to identify exact leak location
► Determine leak size with Low Pressure Gauge – Test system pressure decay
► Will not contaminate or coat EVAP activated charcoal
► Find leaks as small as 4 grams per year.

Find combustion chamber leaks (e.g. head gasket) without having to repair the system first – Simply check the cooling system for combustion gases (e.g. CO2) at radiator cap or thermostat housing

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BULLSEYE Air Ride Suspension Test Kit (for VOSS systems)

- Quickly connects to VOSS air ride systems
- Allows the air ride suspension systems to be filled with CO2 so system leaks can be located
- Gauges and shut off valves allow for the system’s air compressor to be tested
- Allows for dual air ride systems to be filled and tested
Finding A/C Leaks

“When you can find these ultra-small leaks; the leaks in other systems are quite easy to locate”

If a leak is identified as the performance issue of an A/C system, identifying the location of these small leaks is challenged by the limited amount of gas escaping in a short period of time during your investigation. When scanning the A/C system with an electronic leak detector you will only be in front of the leak site for a time of about 1-4 seconds. For example if the system was losing 28 Grams Per Year (GPY), and there is 31,536,000 seconds in a year, then 28 GPY/31,536,000 Seconds = .0000008 grams lost per second. As you can see there is a very small amount of refrigerant gas leaking in the time you are in front of the leak site. So only the minute amount of refrigerant that is lost during your investigation into the location of the leak site will be available for detection. Anything that can allow more gas to escape from the leak site will help to identify the location of such a leak. There is a pressure temperature relationship with the base refrigerant that is contained within the system, so if the ambient temperature is 60°F there will be only approximately 60 PSI contained in the system. With this low pressure there will be less gas that can escape in the 1-4 second detection range. If the refrigerant is removed from such a system and CO2 is installed in the system with an adjustable pressure regulator, there will be a greater pressure contained within the A/C system. This means that more gas will escape in the 1-4 second detection range, allowing for a more accurate leak detection process. The greater the CO2 pressure is the more CO2 will leak in the 1-4 second detection time, thus the accuracy of the detector will be increased. For the best results using CO2 gas 150-200 PSI is preferred.

Once the leak area has been located with the BULLSEYE CO2 Leak Detector the true game changing technology is applied; Leak Seeker Foam. This allows for the exact location of the leak site to be seen. The foam changes from a pinkish color to a yellow color at the leak site. No more guessing where the leak may be; a game changing definite diagnoses can be made quickly and accurately.
Rick Layton

“ATS makes equipment that makes an advanced level technician's job easier. Not only is it state of the art, the quality and support are unsurpassed by anyone. ATS is building the tools that are the future of automotive diagnostics today.”

Rick Layton
Diagnostics On Wheels
ASE Master Tech L1
Professional Technician for 37 years
Using ATS Equipment for 9 years
iC - Inspection Camera

- Articulating submersible tip
- Gets where others can’t go
- Sees what other borescopes can’t see
- High resolution on any PC or tablet
- Visual exam of valve deposits – No disassembly
- Medical grade at an affordable price
- HVAC
  - Door actuation operation
  - Heater core inspection
  - Evaporator inspection
- Print before and after for customer or playback video
- Display on any Windows computer with USB port
Darren Trujillo

“ATS equipment totally changed the way I diagnose vehicles. With this equipment I can diagnose hard cars fast. I now make money diagnosing vehicles. I would recommend ATS equipment to anyone who wants to take their diagnostics to the next level.”

Darren Trujillo
Automotive Electric Specialists
ASE Certified
Professional Technician for 10 years
Using ATS Equipment for 6 years
iGA5 - Intelligent Gas Analyzer

► Automated Air-Fuel-Ratio/Lambda Calculation – Immediately identify fuel delivery and calculation problems
► Accurately test all air-fuel-ratio sensors – Zirconia dioxide, titania dioxide, wide range fuel sensor (WAF), linear air-fuel ratio sensors (LAF), etc.
► Highest HC scale in the industry – For accurate misfire and no start diagnostics
► Unlimited recording, playback, and graphing
► Connect to tailpipe and in seconds identify or eliminate entire fuel delivery system for diagnostics
► Great for CO2 or HC leak detection
► Super-fast gas trace to display
The tune-up for the modern GDI engine

Heavy Carbon Deposits Removed

GUARANTEED
3C Intelligent Induction Cleaner™ (Patent Pending) Removes heavy carbon deposits from the internal combustion engine’s induction system in under 20 minutes.

3C Tri-Chemical Delivery™ (Patent Pending) Laboratory proven to remove more carbon weight from different carbon types than any other commercially available induction carbon cleaning chemical, while having a low HMIS health rating of (2).

Air Assist Injection Nozzle™ (Patent Pending) Delivers chemical in small droplets that are suspended and carried to the carbon deposits by the engine’s air flow. This air assisted nozzle is superior to any other nozzle available for carbon removal.

Chemical Layering™ (Patent Pending) Removes more carbon because it alters the application of chemical mixtures between Chemical A and Chemical B in on/off cycles, then washes the induction system with Chemical C.

Micro-Burst Injection Technology™ (Patent Pending) Delivers the maximum amount of chemical during the cleaning process while still allowing the engine to run well.

Maintaining the GDI engine will be important for engine performance. GDI engines can have rapid carbon accumulation within the engine's induction system. These carbon deposits need to be removed every 30,000 miles. The 3C cleaner can quickly remove heavy carbon deposits restoring the engine’s performance.

1.6L Turbo Mini Cooper at 83,000 miles
(cleaned in just 17 minutes)

Works on all gasoline based engines
3C Tri-Chemical Delivery™ (patent pending) Laboratory proven to remove more gasoline-based carbon by weight, from different gasoline carbon types, than any other commercially available induction carbon cleaning chemicals. Our 3C gasoline chemicals are designed specifically for gasoline-based engines. Additionally these chemicals are safe for exhaust system components such as; O2 sensors, catalytic converters, turbochargers, etc.. All of our chemicals have a low HMIS heath rating of (2), thus proving ATS Chemical’s concerns and commitment to our customer’s health. Furthermore none of these chemicals are currently on the California Proposition 65 regulations. ATS Chemical has discovered over 30 new chemicals (patent pending) that have never been used in the automotive induction carbon removing industry, which makes our chemical mixtures totally unique.

Chemical Accelerants (patent pending) are used in our mixtures to ensure that the carbon removed during the induction cleaning process is burned in the combustion chamber. This keeps the removed carbon from redepositing or damaging exhaust components such as turbochargers and exhaust after treatment systems (e.g. catalytic converters). Additionally these accelerants help keep the engine running well during the induction cleaning of the engine.

The modern tune up for the GDI engine
An advanced pour-in fuel treatment that enhances gasoline to remove carbon deposits from the internal combustion engine and engine components. This chemical mixture is proven to remove carbon from; fuel injectors, induction ports, induction valves, and combustion chambers. Carbon deposits on the injectors can cause drivability problems and poor fuel mileage. This advanced formula can clean coking from the port style injector and the direct style injector; increasing engine performance and fuel economy.

An advanced pour-in oil treatment that breaks down carbon deposits and sludge from lubricated engine components. Sludge and carbon deposits in the motor oil can cause serious engine problems. 505CRO cleans carbon deposits from the engine and reduces problems with; sticking piston rings, sticking lifters, sticking camshaft phasers, sticking oil control valves, sticking timing chain tensioners, restricted oil screens (e.g. oil pump pick up). ATS 505CRO increases engine performance while reducing engine oil consumption all within a 15-20 minute cleaning.

505CRO and 505CRF treatments are really that easy!
ABC’s of Injector On-Time

This Just in Time Training program contains three animated sections describing how the vehicle PCM processes sensor data to calculate injector on-time. Finally: a program that explains this important process. It also includes an extensive explanation of how fuel trim maintains the correct air/fuel ratio, and then alerts the on-board diagnostic system to excessive fuel corrections.

- Chapter 1 - Fuel Trim 1
- Chapter 2 - Fuel Trim 2
- Chapter 3 - Volumetric Efficiency

Engine Performance

Many times a wiring schematic and the limited information available about an electrical system is not enough for the technician to repair the vehicle right the first time. Once the technician watches and listens to the in-depth animations, the inner workings of the systems become crystal clear and the technician can then use this information to repair vehicles.

- Learn how the circuits in the engine control system work together in modern vehicles to maximize engine performance, improve fuel economy and reduce harmful tailpipe emissions
- Learn how the modern PCM senses and adjusts its outputs based on sensor inputs and operating strategies programmed in its memory
- This is the Must Have tool for every technician’s tool box!
ATS Tech Support

Need help with your new ATS diagnostic equipment?

An ATS specialist will log onto your PC and help you understand your new tool; in your shop on your own computer. ATS will help you with each step along the way.

► Make sure our software is loaded and working correctly
► Answer questions about how your new equipment works
► Help you use your new equipment on a live vehicle

ATS is here to make it fast and easy to use all of the ATS tools and equipment.

Yes, It’s really that easy!  
call now 800-572-6112