AE TOOLS & COMPUTERS

Product Catalog & Resource Guide

v 2.2

REAL SUPPORT.
REAL SOLUTIONS.

913.856.6678
WWW.AETOOLS.US

GET READY FOR THE ROAD AHEAD.

WE'VE LEVELED THE
PLAYING FIELD

The sophistication of the modern vehicle has completely revolutionized what it means to work on cars. It transformed the mechanic into a technician, made programming, coding and flashing part of the everyday shop talk and paved the way for OEM-level diagnostics in the aftermarket.

To bridge the gap, AE Tools & Computers brings OEM-level diagnostic solutions and dealer-level support to aftermarket repair shops, heavy-duty repair facilities and automotive locksmiths. We're fixing things you can't see. Real solutions are just a call away.

No job is too big. We've leveled the playing field.

AE TOOLS &COMPUTERS

AE TOOLS &COMPUTERS

Phone: 913-856-6678

Mailing Address:

AE Tools & Computers
1601 E Park Street
Olathe, Kansas 66061

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WWW.AETOOLS.US

Shipping:

Shipping is added to every order.
Please ask for rates.

CONTENTS

Financing options available!

Credit applications available at WWW.AETOOLS.US

Partners CAPITAL GROUP   **DIRECTCAPITAL**   **NAVITAS** LEASE CORP

REAL SUPPORT.   REAL SOLUTIONS.

YOU
HAVE
TECH
SUPPORT

THE 100% REPAIR SOLUTION
THE RIGHT TOOL + TRAINING + TECH SUPPORT = TOTAL REPAIR

OEM TOOLS

We've leveled the playing field. The REAL dealer-level solution, partnered with our tech support, can open new revenue streams for your business. We sell genuine OEM tools and software subscriptions!

AFTERMARKET TOOLS

All aftermarket tools are not created equal. That is why we only sell and support aftermarket tools that truly get the job done; legitimate OEM alternatives! From scan tools and oscilloscopes to ADAS, AE Tools & Computers is your complete solution.

HEAVY DUTY / DEISEL

Don't let ever-evolving diesel technology like injector calibration, ECU upgrade and programming slow you down. Let AE Tools & Computers set you up with the right tools and support, so you get paid and your customers get back on the open road.

LAPTOPS

AE Tools & Computers custom automotive laptops are built tough to meet the needs of the automotive technician, diesel technician, and automotive locksmith. Our laptop is the foundation of your OEM diagnostic solutions. From the durability of the laptop to the hard drive configurations-our laptops are designed with you in mind!

ADAS

The future of vehicles includes new technology such as lane departure warning and autonomous driving. We sell complete tools for the complex calibrations that these systems require. Be ready for the road ahead.

TPMS TOOLS

TPMS is just the beginning of new autonomous vehicle technology. Soon self aware and self driving vehicles will be changing our industry in a big way. Is your shop ready for the future of vehicle technologies? We can help.

SPECIALTY

We only sell tools that provide real solutions. From oscilloscopes to leak detectors and programming power supplies, we sell the most innovative new tools and technologies that truly get the job done.

LOCKSMITH TOOLS

From key cutting machines and programming tools to cloners and scan tools, keeping up with the latest technology and modern solutions like ECU matching and security resets can be a real challenge. AE Tools & Computers is here to make sure you're on the cutting edge.

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REAL SUPPORT.
REAL SOLUTIONS.

MISSION:

AE Tools & Computers helps all automotive and commercial industry vehicle repair facilities increase customer satisfaction while decreasing turnaround time through knowledge, tools, training and time sensitive support.

"Real Support, Real Solutions" allows the technician to finish the job correctly the first time using high tech tools for today's high-tech vehicles.

YOU HAVE **LIFETIME** TECH SUPPORT
https://support.aetools.us/
913-856-6678

We can all agree that the automotive repair industry needs quality training now more than ever. Vehicle technology becomes increasingly complex every year. Looking ahead, we have built a training facility to provide industry-leading technical training. Autonomous vehicle technology and on board computers will forever change the landscape of automotive repair. It is crucial that we learn how to correctly diagnose and repair these systems. We have partnered with some of the industry's leading minds and trainers to bring classes on ADAS, Reprogramming, and an Electronics 101 class. In this class, technicians learn complete electronic theory and diagnostics with multi channel oscilloscopes over the course of three days. Effective training is a solid business investment. The future came fast. Is your shop equipped with the correct tools and ready to repair these new vehicle technologies? Partner with us to ensure your staff is equipped and trained. Learning the full functionality of your tools can also increase your shops revenue by keeping jobs that used to require the dealership in-house.
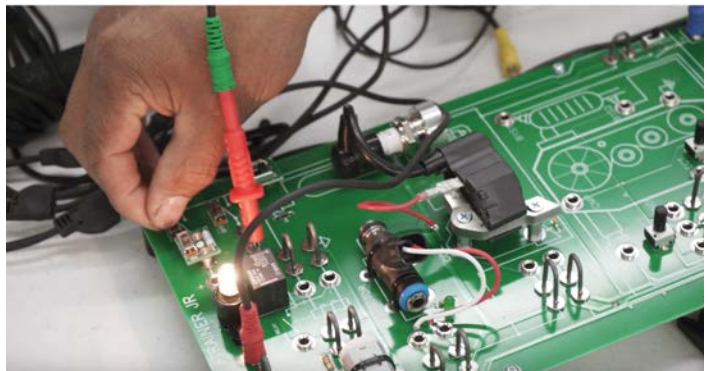
Sign up for our email list at

WWW.AETOOLS.US

to recieve updates on our class schedules!

ELECTRONICS '101'

WITH BERNIE THOMPSON

I completed Bernie's Lab Scope class and I highly recommend it. It's very informative, and not your run of the mill class. There is tons of information. I really loved this class and recommend it 100%!

John Cristaufer, Indiana

I attended the scope training with ATS, I must say that now that I came here and got some training on it, I'm much better and proficient at knowing some of the secrets that are inside of the scope. I'm looking forward to seeing the future updates! Attending this class was very well worth it.

Jeff Wissendem

I just got done with Electronics 101 Class, with ATS, and it was very helpful to learn all this. I went to college and took the electrical classes, but even after college, everything made no sense. After this class it makes much more sense! I'm looking forward to getting back into the shop and working on things with the scope. I highly recommend this class!

Arrow Ponce

TRAINING
THE FUTURE CAME FAST

I attended a training class on ADAS with AUTEL trainers here at the AE Tools & Computers facility. It is the best class I've found covering this part of the industry. There is a lot of information and a lot to be learned in this class. I highly recommend that you come and take this class.

Richard Jackson

TECH SUPPORT

INDUSTRY LEADING ON-CAR SUPPORT • IN A LEAGUE OF IT'S OWN

Our support team offers live phone and internet-based remote assistance for tool functionality, computer programming, immobilizer and security-related issues and more. We're actually live on the car with you, logged in via the internet to a PC at your location.

The days of sending cars back to the dealership are over. Make more money and keep your customers at your shop!

Welcome to the world you've dreamed of in the aftermarket.

YOU HAVE TECH SUPPORT!

LIFETIME TOOL SUPPORT INCLUDES:

- Complete hardware setup and training, as necessary*
- Assistance with the software update process
- Tool functionality
- On-car computer programming, key programming and module programming

This support is included with all tools purchased through AE Tools & Computers, for the life of the tool!

When you have questions or problems, simply create a support ticket online and we will contact you quickly to help resolve your issue. If needed, we will log in remotely and help you solve the issues you are facing. This support is REAL. Real people helping you when you need it most! There are no limits to the calls and no additional expenses for the help, although some processes may incur additional fees, and additional fees for some Euro support. If there are subscription fees or update costs associated with the tools, we will make you aware of those up front. There are usually annual subscriptions and updates required for most tools. Additionally, pin codes are typically required for key programming and other security functions. We can educate you on how all that works and help you navigate the process of acquiring, installing and using them. We view our relationship with our customers as a long-term partnership. Once we get our first tool into your hands and you experience our support, you'll understand why we have so many loyal customers. We are tuned in to the urgency that is present in every shop, and we understand the challenges you face.

*Additional support packages and set up fees are required for some J-2534 OEM software packages.
*Additional customization fees (no hard drive partitioning) are required for setup on customer provided laptops.
*Euro Support may require additional fees.

LIVE SUPPORT HOURS: MONDAY - FRIDAY
8 AM- 6 PM CST*

*(9AM - 6PM ON TUESDAYS)

LAPTOPS

CUSTOM AUTOMOTIVE LAPTOPS • A SOLID FOUNDATION

AE Tools & Computers custom automotive laptops are built tough to meet the needs of the automotive technician, diesel technician, and automotive locksmith. Our laptop is the foundation of your OEM diagnostic solutions. From the durability of the laptop to the hard drive configurations, our laptops are designed with you in mind! Your job just got easier. Guaranteed.

WHAT MAKES OUR
LAPTOPS
SO SPECIAL ?

For over a decade we've been building and perfecting custom laptops designed specifically to address the needs of the automotive technician, diesel technician and automotive locksmith. From the durability of the laptop to the hard drive configurations, our laptops are designed with you in mind.

Our laptops are powerful and fully armored. Drop resistant. Shock resistant. Dust resistant. Water resistant.

You're probably wondering just how sturdy rugged laptops actually are. What does "rugged" really mean? How can you be assured that the technology you're investing in will be reliable when it counts the most? Computer downtime has a major impact on productivity. For the most extreme working environments, one important thing to look for is whether the device was tested to meet MIL-STD-810G specifications (commonly shortened to Mil-Spec). This refers to the Military standards developed by the U.S. Department of Defense which have become a common benchmark in validating the level of ruggedization in a piece of technology. There are numerous MIL-STD-810G tests, which determine how well the device withstands scenarios such as drops, high altitudes, dust, liquid, vibration and extreme temperatures. Our laptops and tablets each pass numerous Mil-Spec tests. Vendors typically choose which trials a ruggedized laptop will be designed to survive. The bottom line is that shoppers need to look closely at what sort of hardships a rugged laptop is promised to handle and how the company backs up these claims. Laptop buyers also should determine exactly what their rugged needs are and how much they're willing to pay in repairs for less rugged machines. Spend your tool money wisely and get the right machine for your shop!

Configured especially for automotive needs.

Our laptops come equipped with a 9-pin serial port, which is necessary to connect with tools such as the GM Tech 2 and Chrysler's DRB III scan tools. Our laptops and tablets are purpose-built to our specifications with the ports and connectors required for OEM and aftermarket tools to interface and work properly. A 12-volt auto adapter for the cigarette lighter is available, as well as mobile docking stations. New laptops purchased from retailers are not equipped with this serial port. These units also feature long-life batteries.

We partition the hard drive for efficiency.

As you may know, software from many of the OEM's conflict with one another. This means they can't operate together on the same hard drive on the laptop. We've solved that issue by implementing multiple partitions on the same hard drive, each equipped with Windows 10 IoT Enterprise. By doing this, we are able to isolate the various OEM softwares from one another, so multiple OEM softwares run seamlessly from one laptop. Partitioning the hard drive makes our units completely scalable, so as you add more OEM tools to your arsenal, we can keep adding partitions to your laptop. If you outgrow the included 1 terabyte hard drive, don't worry, you can easily switch between partitioned hard drives. Big shops and fleets love the way we build our laptops, because we create one master and replicate them exactly the same to standardize their units, leading to increased efficiency in the shop.

We remotely manage the entire system for you.

If your laptop's operating system fails, or has other issues, we can do an automated recovery process by deleting the affected partition and loading on a new partition with the exact software you lost. We do this all remotely, through the internet, logged in to your computer in minutes, so you are back up and fixing cars fast. You'll never have to ship us a laptop for repair unless it has physical damage or a total hard drive crash failure.
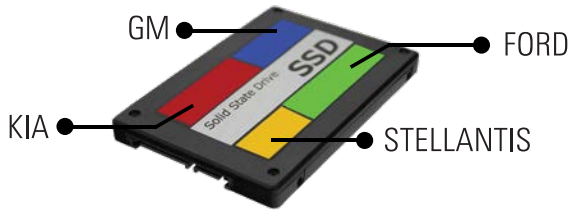
Our laptops can be pre-loaded with the software you need, completely customized for your operation, with lifetime support from the team at AE Tools & Computers. Most units are ready to ship out in 72 hours!

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DURABOOK S14I

The S14I features an invincible mechanical design with rigorously tested components. It meets the standards of MIL-STD 810G Change 1, can withstand a 4-foot drop, and boasts an IP53 rating, making it suitable for use in locations where rain or dust may be a regular occurrence. Powered by Intel® 11th Generation i7 processors, and running Windows® 10 Enterprise IoT, the S14I provides users with hot-swappable battery feature without compromising long battery life. The S14I weighs only 5 lbs and is 33% thinner than the previous generation and features a long battery life!

• Available with an optional 1000 nits DynaVue® sunlight readable display

Our proprietary configuration of multiple boot partitions allow you to run several OEM software platforms on the same drive, and drives can be easily swapped.

GM

FORD

KIA

STELLANTIS

DURABOOK S14i

DISPLAY	14.0" FHD DynaVue® SR display with 1000 nits (1920×1080) Optional 1000 nits DynaVue® sunlight readable display
PROCESSOR	11th Generation Intel® Core™ Processor
SYSTEM MEMORY	16 GB (2400MHz DDR4)
GRAPHICS	Intel® UHD Graphics 620 NVIDIA® GeForce® GTX® 1050 MXM
STORAGE	1 TB SSD
AUDIO	High Definition Audio, Integrated Speaker, Integrated microphone
I/O PORTS	USB 3.2 GEN 2 (type A) x 2, USB 3.2 GEN 2 (type C) x 1, USB 2.0 (type A) x 1, Audio in/out (combo jack) x 1, SD card (SDXC) x 1, 10/100/1000 Ethernet (RJ-45) x 1, VGA port (D-sub,15-pin) x 1, HDMI port (type A) x 1, Serial port (RS-232/RS422/RS485 : D-sub, 9-pin) x 1, SIM Card x1, DC-in jack x1, Optional Docking connector (41-pin Pogo) x 1, Optional Smart Card Reader x1
KEYBOARD	86-key US Waterproof Keyboard with Windows Key, Touchpad with 2 buttons
COMMUNICATIONS	Gigabit Ethernet, 10/100/1000 base-T, Intel® Dual Band Wireless-AC 9260, 802.11ac, Bluetooth 5.0
AC ADAPTER	100V – 240V; 50/60Hz; 65W; 19V, 90W (120W with MXM Graphics)
DIMENSIONS & WEIGHT	13.78" (W) x 11.1 (D) x 1.49" (H), 5.07 lbs / 2.3 kg(with 6-cell battery)
WARRANTY	2-Year Warranty Included, Additional 1 Year Warranty Available For Purchase
RUGGED RATING	MIL-STD-810G Certified, 4 foot drop, shock, vibration, dust, high/low temperature, humidity, dust, sand, freeze/thaw

MIL-STD 810H

IP53 CERTIFIED

4 ft drop

STANDARD 3 YEAR WARRANTY

DynaVue

SOFTWARE YOU CAN TRUST

AUTOMOTIVE SOFTWARE WE SELL & SUPPORT:

100% GENUINE
SOFTWARE

ATS Emissfire
AUDI ODIS
AUTEL ADAS
Bentley Odis
BMW ISTA
BMW ISTA P
Ford FJDS
Ford FMP
Ford IDS
General Motors GDS2
General Motors Tech2WIN
General Motors SPS Vehicle Programming
Genesis Mobile
Honda i-HDS Diagnostic
Hyundai EDR Crash Data
HYUNDAI J2534
Hyundai Mobile
Jaguar LandRover SDD and Pathfinder
Keyline Liger
Kia EDR Crash Data

Kia J2534
Kia KDS Mobile
Lamborghini ODIS
Mazda IDS
Mazda MDARS
Mazda MMP J-2534
Mercedes Xentry J-2534 Diagnostic
Mitsubishi MUT 3
Nissan Consult 3+
Nissan R2R Diagnostic
Subaru Denso DST-i
TECH AUTHORITY
Tesla Diagnostics
Toyota OEM
VIDA
Volvo Key Programming
VW ODIS
wiTECH2

SOFTWARE YOU CAN TRUST

HEAVY DUTY SOFTWARE WE SELL & SUPPORT:

100% GENUINE
SOFTWARE

Allison Doc
Bendix Brake Software ACOM
Cummins Insite Pro
Cummins Quickserve
Detroit Diesel
Eaton Service Ranger
ESA Body
Haldex Brake
HINO Diagnostic Explorer II
HINO EXPLORER Standard
Isuzu IDSS
Jaltest AGV
Jaltest CV
Jaltest MHE
Jaltest OHW
Mercedes FUSO Xentry

Meritor Wabco Toolbox Plus
Mut 3 FUSO Truck
Navistar Engine Diagnostic
NavKAL
PACCAR DAVIE
PSI Diagnostic
PTT Diagnostic Software Mack
PTT Diagnostic Software Prevost
PTT Diagnostic Software UD Trucks
PTT Diagnostic Software Volvo

AETOOLS &COMPUTERS

"After years of doing advanced diagnostics in the dealership world, I became an independent shop owner. I knew how important it would be to find the right partner for OEM-level tools and software. AE Tools & Computers can supply me with everything I need to do everything the dealers can do, and more. Their online ticket system and customer support is game changing for the aftermarket. Having live, on-car technical support available to me as often as needed keeps my shop profitable and competitive. The support I get from AE Tools & Computers gives me confidence as a shop owner to say yes to my customers, to know we can complete the repair quickly in house and move on to the next job. The technology on these vehicles is only going to get more complex, and a partnership with AE Tools & Computers is going to be essential for my business."

- Vicente Silva
    Owner, New Concept Auto Service
    Overland Park, KS

WE SELL IT.
WE SUPPORT IT.

J2534

THE FUTURE OF OEM DIAGNOSTICS AND PROGRAMMING IS HERE

Auto manufacturers are required to make their service information and diagnostic software available to the aftermarket through a J2534 pass-thru device, laptop, and OEM software subscription. The AE Z Flasher 3, a comprehensive J2534 ECU reprogrammer with built-in OBD II diagnostics provides the independent technician and automotive locksmith with the same diagnostic and service capabilities that exist at a franchise dealership.

Put simply, the AE Z Flasher 3 opens up a world of opportunities in OEM diagnostics, module programming, and more. Our on-car support allows you to take full advantage of J2534 capabilities, and to say "Yes, we can fix that!" with confidence.

AE Z FLASHER 3

The AE Z Flasher 3 is the next generation fully supported
SAE J2534-1 and J2534-2 device with even more advanced
support including: CAN FD, 4 CAN Channels, v05.00 API
and DoIP. In addition, it features High Speed USB and
support for global vehicles.

The AE Z Flasher 3 has been fully tested for
compliance and meets all of today's
SAE J2534 standards.

J2534 OEM DIAGNOSTICS:
BMW/Mini – ISTA*
FCA – wiTECH 2.0 including CAN-FD and Ethernet (DoIP) protocols
Ford – Ford J2534 Diagnostic System (FJDS) & Ford Diagnostic and Repair System (FDRS)
GM – Global Diagnostic System (GDS2)
GM – Tech2Win (PC-based Tech2 software)
Honda – Honda Diagnostic System (i-HDS)
Jaguar/LandRover – Integrated Diagnostic Software (IDS) & Symptom-Driven Diagnostics (SDD)*
Mercedez-Benz – Pass Thru Programming System*
Mistubishi – Multi-Use Tester III Special Edition (MUT3–SE)
Nissan – Consult III Plus R2R
Subaru – Subaru Select Monitor 4 (SSM4)
Toyota – TechStream
VW/Audi (VAG) – Offboard Diagnostic Information System (ODIS)*
Volvo – Volvo Information and Diagnostics for Aftersales (VIDA)*

AE Z FLASHER 3 REPROGRAMMING:
All-makes, all-model SAE J2534 reprogramming.

SAE J2534-1: AE Z FLASHER 3 is the most advanced device
for reprogramming of ALL OEM with the use of their OEM
provided software.

SAE J2534-2: AE Z FLASHER 3 offers extra J2534-2 support
that expands reprogramming beyond just the Engine/Trans
modules for GM, Ford, Chrysler, Toyota, Honda, Audi, VW,
BMW, Volvo and more!

Vehicle Security Professioals:
Technicians and Locksmiths use the AE Z FLASHER 3 for
Security Key systems/reprogramming on all vehicle makes
supported by the OEM and through the NASTF SDRM model.

J2534 PROGRAMMING & OEM DIAGNOSTICS

AE TOOLS & COMPUTERS

Manufacturer	Key Programming	Diagnostics	Programming / Coding Capabilities
Acura	Yes	Yes - Dealer Level	Yes
Audi	Yes	Yes - Dealer Level	Yes
BMW	YES KEY SYNCHRONIZATION CAN'T CREATE NEW KEY	Yes - Dealer Level	2017˅ *EXCLUDES MOST BUS VEHICLES (ICOM IS SUGGESTED) 2018+ *
Chrysler	Yes* 2004+ *CAN VEHICLES	Yes - Dealer Level	2004-2020* *CAN VEHICLES *
Ford	Yes	Yes (FDRS FULL)	Yes
General Motors	Yes	Yes - Dealer Level	Yes* *Global A Vehicles will not accept USED Modules *
Honda	Yes	Yes - Dealer Level	Yes
Hyundai	Yes 2018+	Yes 2018+	Yes (ECM & TCM ONLY)
Infiniti	No	YES (R2R 2018+)	YES (R2R 1999-NEWER)* *VIN Writing supported for 2018+ *
Isuzu	Yes	Yes - Dealer Level	Yes
Jaguar	Yes 2017^ DOIP REQUIRED	Yes - Dealer Level	Yes DOIP REQUIRED FOR 2017+
Kia	Yes 2018+	Yes 2018+	2017˅ YES (ECM & TCM ONLY)
Lamborghini	Yes	Yes - Dealer Level	Yes
Land Rover	Yes	Yes - Dealer Level	Yes 2006+
Lexus	Yes	Yes - Dealer Level	Yes
Mazda	Yes	Yes 2018+	ECM / TCM / PATS 2017˅ MDARS REQUIRED ON MAZDA 3 2018+ *

*MDFSA Vehicles: 2018 (Only) Mazda 3 2018-Newer Mazda 6
2018-Newer MX5 2018-Newer CX3 2018-2021 CX5 & CX6
*MDARS Vehicles: 2019-Newer Mazda 3 2021-Newer CX5 & CX9
2020- Newer CX30 *MMP Vehicles: 2017-Older (ALL)

Manufacturer	Key Programming	Diagnostics	Programming / Coding Capabilities
Mercedes Benz	No	Yes	ECM & TCM ONLY
Mini	YES KEY SYNCHRONIZATION* *CAN'T CREATE NEW KEY	Yes - Dealer Level	2017˅ Limited Functions 2018+
Mitsubishi	Yes CAN ONLY Vehicles	Yes CAN Vehicles	2006+ (ECM & TCM ONLY) 2018+
Nissan	No	Yes (R2R 2018+)	Yes (R2R 1999-Newer)* 2018+ *

NERS supports ECM & TCM programming ONLY (VIN writing supported on 2015-NEWER)   *VIN Writing supported for 2018+

Manufacturer	Key Programming	Diagnostics	Programming / Coding Capabilities
Porsche	Yes	Yes - Dealer Level	Yes
Subaru	Yes 2015+ MOST MODELS	Yes - Dealer Level	Yes 2015+ MOST MODELS
Toyota	Yes	Yes - Dealer Level	Full diagnostics & programming capabilities* *

*2020-NEWER TOYOTA SUPRA REQUIRES F-BODY ADAPTER & ISTA SOFTWARE

Manufacturer	Key Programming	Diagnostics	Programming / Coding Capabilities
Volkswagen	Yes	Yes - Dealer Level	Yes 2004+
Volvo	Yes	Yes - Dealer Level	Yes *

*2016-NEWER XC SERIES REQUIRES F-BODY ADAPTER

Manufacturer access, pricing and coverage is subject to change.   LSID may be required for key reprogramming and security related functions.

Full Capabilities   **Limited Capabilities**   **None**   ˅OLDER MODEL YEARS   + NEWER MODEL YEARS

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*Chart is current as of APRIL 2024.

J2534

What is vehicle reprogramming?

Reprogramming is the process of replacing the existing software in a vehicle controller with new software by electronically transferring approved calibration files from a vehicle manufacturer's website. (Also known as reflashing, flashing, programming or reconfiguring.)

Why is reprogramming so important?

1. Automobile manufacturers are constantly making changes to their controller software – making cars more efficient, fixing problems that have been discovered, fine tuning components and systems, updating cut points as cars age, solving problems such as rough idle and hard starting, repairing emissions related problems and many others.

2. New controllers replaced in a vehicle require programming to match the exact specifications and option list on the car being repaired.

3. Many of the Technical Service Bulletins (TSBs) issued by automobile manufacturers require reprogramming with the latest software updates to repair problems that are occurring with vehicles on the road even after their warranties have expired.

Isn't reprogramming just for cars that are still under warranty so only dealers will need this capability?

Maybe you thought only cars still under warranty are being reprogrammed and it's just not worth your while. Over 100 million cars on the road today support J2534 reprogramming. Studies indicate that 7 out of 10 vehicles on the road require a calibration update. Auto Manufacturers are constantly updating controller software to solve problems such as false DTCs, hesitation, rough idle, emissions problems, hard starting, poor fuel economy and others. These problems plague many cars that are no longer under warranty. Your competitors are making money repairing these cars by J2534 reprogramming. You should be too!

What is J2534?

SAE J2534 is a standard for communications between a computer and a vehicle. Government regulations require all automakers provide a J2534 service to EVERYONE in the U.S. for reprogramming (also called reflashing) emissions related controllers. If you own a J2534 Pass Thru device, you can reflash and, in some cases, diagnose vehicles with factory functionality.

What do I need to reprogram a vehicle controller?

1. J2534 Pass thru Device
2. PC with Access to the Internet
3. OEM Data Subscription(s)

What is a J2534 Pass Thru device?

A J2534 Pass-thru Device is an interface that acts as a gateway between a vehicles controller and the technician's PC. It's purpose is to translate the messages back and forth between the PC and controller into a protocol that is understood by the vehicle.

Why do I need a J2534 reprogrammer?

Computers and software in cars have been expanding at an exponential rate. There are now over 100 Million reprogrammable controllers on the road today. Updating vehicle controller software is becoming one of the leading solutions for vehicle repairs. Reprogramming may be the only way to fix some of these issues:

Driveability - Fuel efficiency - Power loss - Fault codes - Durability of mechanical parts

How would I use a J2534 reprogrammer in my shop?

J2534 reprogramming is becoming an essential shop tool. Studies indicate that 7 out of 10 vehicles on the road require a calibration update.   With a J2534 reprogrammer in your shop you can:

Fix cars with the problems listed above
Grow profits by offering services previously sent to the dealership
Offer the services needed to retain customers

What vehicles can be reprogrammed?

As of 2004, all new vehicles must support the SAE J2534 (reprogramming) specification as mandated by the EPA. The EPA mandate also requires OEMs to support aftermarket repair shops with J2534 flash programming for any emissions related controllers on a vehicle that can be reprogrammed by a new car dealership.

Is this a performance tool?

The AE Z Flasher 3 is not a performance tool. It is used to re-flash the vehicles computer when there are updates available from the vehicle manufacturers. These updates are known a TSB's or technical service bulletins. If the vehicle manufacturers find a way to better the performance of a vehicle they will release these TSB's and you will have to re-flash the vehicle computer to update it.   The only way that the performance of the vehicle will be changed is if this is included in the TSB's that are released from the vehicle manufacturers.

YOU HAVE TECH SUPPORT!

AE Tools & Computers brings OEM-level diagnostic solutions and dealer-level support to aftermarket repair shops, heavy-duty repair facilities and automotive locksmiths. This support is included with all tools purchased through AE Tools & Computers... for the life of the tool!

*Additional support contract required for European cars - ask for details.
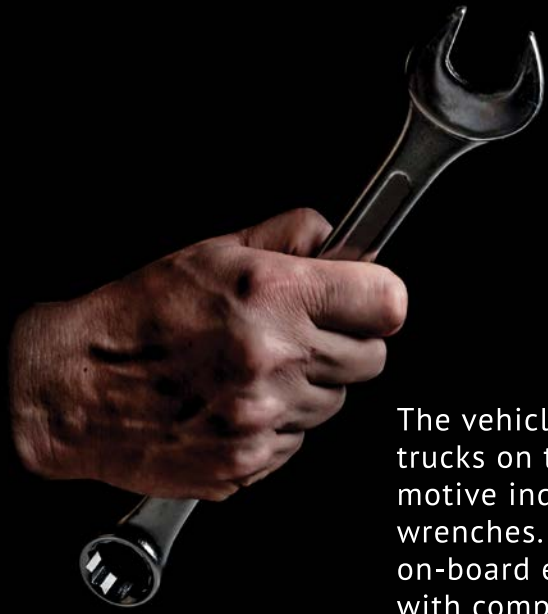
THE FUTURE CAME FAST

CYBER SECURITY AND THE AFTERMARKET

The vehicles we repair today are more like spaceships than the old trucks on the farm I first worked on. The future came fast in the automotive industry. The most difficult things to repair can't be fixed with wrenches. Fixing the things you can't see can be more challenging! The on-board electronic systems of today's vehicles require as much skill with computers as they do traditional mechanics. Access to OEM tools and software is crucial for the survival of aftermarket repair shops. Our mission at AE Tools & Computers is to educate and equip aftermarket shops for tomorrow's technology.

Have you ever wondered about the security of your family vehicle's electronic systems? Do you feel that as an aftermarket repair technician you are being locked out of accessing OEM equipment? Here are some things to consider when preparing your shop to repair these high tech vehicles. Understanding whats around the corner in our industry may be crucial to the survival of your business. Are you ready?

As technology moves on, we're going to be thinking more and more about mobile computing not being just the smartphones we carry with us everywhere, but also the vehicles that carry us everywhere. According to Motherboard reporter Lorenzo Franceschi-Bicchierai, a hacker claims he managed to break into accounts belonging to users of GPS tracker apps, allowing him to monitor the locations of tens of thousands of vehicles, and even granting the ability to turn off the engine of some of them as they were moving. You can imagine the implications of Hackers locating thousands of vehicles and killing engines remotely via poorly-secured GPS tracking apps. Reports revealed some shocking news:
A small group located off the south coast of Italy successfully took control of an $80 million super-yacht's navigation system using a homemade device and sent the luxury vessel on a potentially disastrous wayward path. The captain had no idea that the boat's GPS system was lying to him – not a single alarm bell sounded. This technology known as GPS Spoofing sends a signal more powerful than the legitimate signal, essentially fooling and hijacking the GPS system. Basically, if it emits a signal, or connects to networks, the possibility of exploitations and hacks are very real. Here is a list of vehicle systems that could be compromised.

- Bluetooth Cellular Phone Connections to the Vehicle
- GPS Signals (Spoofing)
- Autonomous Vehicle Technology
- Factory Installed Vehicle Mobile Hotspots
- Proximity Keys and Remotes
- Tire Pressure Monitor System
- Over the Air Connectivity & Updates to the Vehicle
- Cellular OBD Devices that are Connected to the Vehicles Diagnostic Port
- Cellular Fleet Trackers and Insurance OBD2 Dongles

How are the vehicle manufacturers protecting their consumers? What tools and systems are being put in place to stay ahead of cybersecurity threats. There are three main areas to consider; software, hardware, and network security. In other words, what tools are being used, what software is being loaded, and who is accessing these vehicle systems.

Let's talk about network security. A Secure Gateway module (SGW) is similar to your WiFi router in your house. Unless you know the password for your internet you are not allowed on the network. The SGW is like the vault door of a bank, or a firewall. Only those with proper and permitted credentials are allowed access. This is the first line of defense to keep unauthorized people from accessing vehicle systems. Most of the 2018 and newer Chrysler Vehicles are equipped with Secure Gateway technology. At least 5 other manufacturers will be implementing a SGW type solution by the 2022 model year vehicles. The SGW is directly connected to the OBDII connector and controls access to the vehicles BUS. You might ask yourself "Why is this important?" If you're using any aftermarket scan tool you may only have "passive" access to the vehicles BUS. "Passive" access to the vehicle allows the Technician to read trouble codes and data. You're not allowed to clear any trouble codes, perform vehicle programming, or bi-directional controls. To properly service and repair SGW equipped vehicles, it requires additional authentication for diagnostics and programming. Authenticated diagnostics is a cloud based function that connects to the OEM servers in a highly secured method. It also requires the user of the tool to be an "Authorized User". When the proper credentials are confirmed the OEM servers unlock the diagnostics platform allowing full tool functionality and access to service every vehicles need. Investing NOW in OEM tools and software subscriptions ensures that your shop will be ready for tomorrow!

Joey Hendrich
AE Tools & Computers Founder
Industry Professional since 1979

OEM tools pay for themselves. We can help you determine which tools are right for your shops needs. New tools open new services to market to your customers. Here are few of the services that dealer lever solutions unlock:

• Key & Remote Programming
• Pre-Post Scan (Body Shops)
• Airbag Module Programming and Coding
• Module Flash Service
• Module Coding
• Steering Rack Programming and Coding
• Complete Repair Solutions

In addition to dealer level tools you'll need a powerful computer to run the OEM software. Typically, multiple makes of software cannot run on the same hard drive. Throw in updates, system requirements, software requirements and conflicts, password management and suddenly you have something quite complex to manage. Not to mention there is a large percentage of technicians who are not exactly computer nerds. A partnership with our industry leading tech support can make your shop more profitable and less stressed! Our laptops are custom built specifically for the automotive repair industry.

SECURE HARDWARE

Tools (hardware) need to be secured. Most tools have internal memory similar to a thumb drive. Aftermarket tools, cloned tools, and OBD II plug-in tools may have unintentional software, malware or other programming flaws that could compromise a system and lead to it being intentionally hacked or infected with a computer virus. A Virus can spread PC to PC or Car to Car causing many issues such as data breaches, secretly installing destructive malware or allowing unintended access to the vehicle. Secure and genuine vehicle hardware that is connected in an authenticated diagnostic environment must be able to scrub or format the storage area and confirm it is clean before any software is allowed to be delivered to the vehicle. Do you have confidence that cloned hardware is 100% safe for your customer's vehicles? Would you trust it with your own family? Are you prepared to accept liability should something go wrong because of your shop's tools and services?
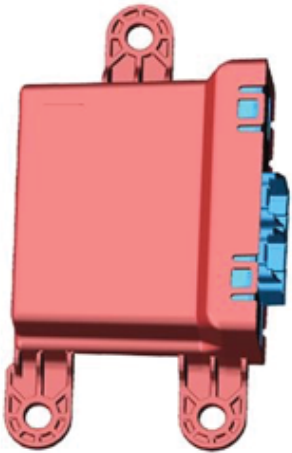
Secure Gateway Module

Vehicle security is being taken seriously by governments around the world due to the potential for hackers to exploit this technology to cause chaos or even terrorist attacks. There is far more at play here than just manufacturers wanting to keep jobs at dealerships. As the industry moves toward autonomous vehicles, the need for vehicle security becomes much more important. Soon technicians may be using computers more than turning wrenches. With this being said we need to protect all aspects of the Automotive Repair Industry to keep our families and neighbors safe, and our shops in business. Together we can create a safe environment for our business to thrive in. There are 4 main areas to be aware of.

- Secure Hardware
- Secure Vehicle Professionals
- Secure OEM Software
- Accountability for Aftermarket Tool Manufacturers

Blockchain is a series of secure messages that go back and forth to verify that both the sender and receiver are truly identified. Bitcoin was the first to use this type of technology. Blockchain technology is being implemented in banking systems to help prevent identity theft and stolen data. With the use of GPS, Autonomous Vehicles as well as direct car to car communication on the road, I believe these complex technologies will soon be implemented with vehicle technologies to keep all of us safe.

SECURE SOFTWARE

AE Tools & Computers sells and supports OEM tools and hardware, as well as genuine software licensing to all aftermarket repair facilities. Our tech support can assist you with acquiring and using many different OEM software programs. We can help you navigate the world of coding, programming, and automotive locksmithing. Many of today's OEM software require multi-factor authentication, and Vehicle Security Professional credentials to access the vehicle systems. Don't trust cracked software with the safety of your customers and the future of your business.

SECURE VEHICLE PROFESSIONALS

Having a valid Vehicle Security Professional or Authorized Validated User credentials aren't just for locksmiths. All shops need to start getting your personnel upgraded through NASTF to become a "Secure Vehicle Professional". Every technician will be required to have their own credentials. This is critical to keep your shops open and have access to the vehicle systems.

RIGHT TO REPAIR

These changes in vehicle technology also affect the aftermarket tool industry. SGW access for aftermarket toolmakers is available thru ETI, but there are many new challenges that tool makers now face.

•Additional OEM charges to access SGW
•OEM may require the end users information
•Tools may require internet
•Tools must be secure
•OEM's now have better control over vehicle modifications

Are you sure the investment in aftermarket tools is a sound business choice? Will they continue to have the access and ability to repair vehicles in the coming years? As vehicles become increasingly complex it's likely that aftermarket tools will not perform many of the functions needed for a complete repair. Invest in the tools and technology needed to provide a complete repair solution.
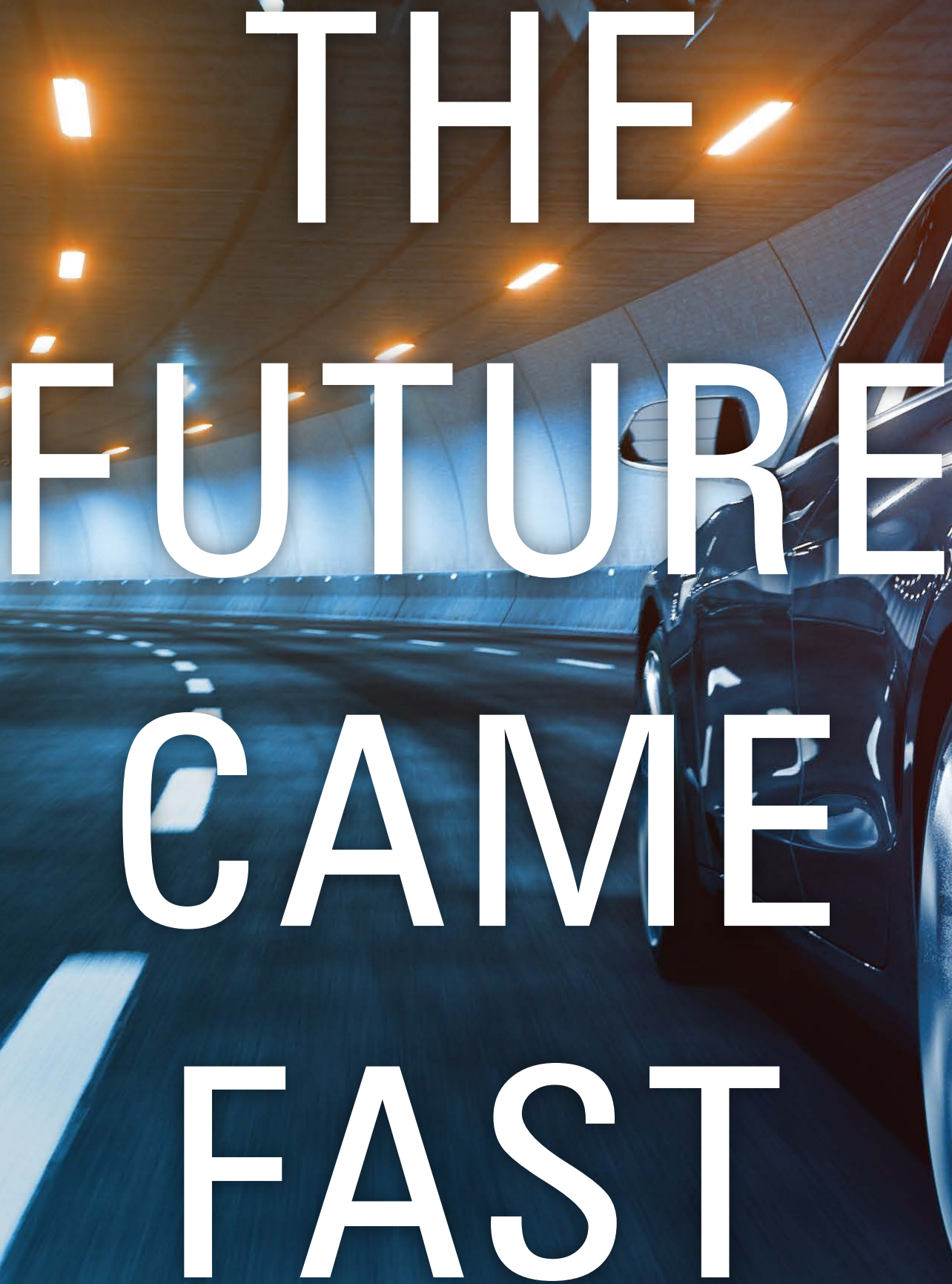
LIMIT YOUR LIABILITY

Pre and post scans of the vehicle systems are likely to become required parts of vehicle maintenance and repair. Can you be sure that the tools and equipment used are seeing 100% of the systems in the vehicle? Are you prepared to assume liability should a vehicle's systems be compromised, or a repair not made totally and correctly? OEM tools help shield your business against blind spots in aftermarket tools.
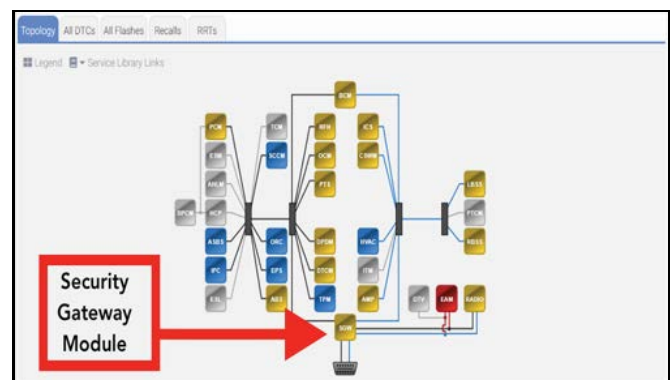
YOU HAVE TECH SUPPORT

Together we can keep the aftermarket automotive repair industry equipped, trained, safe and ready to repair vehicles for years to come.

THE
FUTURE
CAME
FAST

OEM

DEALER-LEVEL DIAGNOSTICS & PROGRAMMING

There's nothing better than the real thing. OEM diagnostics offer functionality you just can't get in an aftermarket scan tool: Full key programming, remote programming, module programming, seat weight sensor calibrations and all other dealer functions.

A OEM scan tool unlocks the door to a new world of dealer-level diagnostics and programming. In order to navigate this new world you need an experienced guide, which is where AE Tools & Computers thrives. We combine support and training with decades of experience so you can effectively use the tool, make more money and keep your customers at your shop!

OEM tools partnered with our custom automotive laptop and industry-leading on-car Tech Support gives you access to everything the dealerships can do, keeping the vehicle in your shop and increasing your profits. It's an unbeatable solution to level the playing field.

Ford VCM 3

Step up to the dealer-level with the Ford VCM 3. When connected to an AE Tools & Computers custom laptop with an IDS subscription, this interface opens up complete diagnostic coverage of current Ford and Lincoln vehicles. This includes module reprogramming, key programming and all other functions. The VCM 3 is required for all 2018 and newer Ford vehicles and is backwards compatible with most 16 pin Fords. Ford VCM 3 covers all OBD II light duty Ford vehicles, with medium duty coverage coming soon.

Includes:
VCM 3, VCM 3 to laptop cable, DLC cable,
Lifetime Tech Support

100% GENUINE SOFTWARE

OPERATING INFO:
PC REQUIRED: Yes, 2.1GHz or greater Intel I5/I7 Dual Core
OPERATING SYSTEM: Windows 10 Professional
DEVICES: PC, 4 GB of RAM or greater

TECHNICAL INFO: Ford VCM 3

MODEL YEAR COVERAGE: 1996 through current and future Ford vehicles

SOFTWARE: Ford IDS, Ford FDRS

AVAILABLE PER DAY: 2 Day   **AVAILABLE PER MONTH:** Yes   **AVAILABLE PER YEAR:** Yes

SOFTWARE LICENSE: Ford IDS requires a software license with annual renewal. The license is connected to one VCM, and covers the scan system software and programming subscription.

Ford VCMM

The Ford Vehicle Communication & Measurement Module (VCMM) works with Ford IDS and FDRS software to diagnose and program Ford, Lincoln and Mercury vehicles. This tool combines the functionality of the VMM, VCM II and MTS 4000/4100 vibration analyzer in a one-box solution.

Vehicle Communication (VCM II capability)
- Customer Flight Recorder capable
- 4-Channel Oscilloscope
- 4-Channel Digital Multi-meter
- 5th-Channel direct monitoring of the DLC connector
- Vibration Analysis
- Driveline Balance
- Signal Generator

4/5 Channel Oscilloscope
- Improved user interface from VMM
- Four independent differential Input Channels enables independent monitoring of signal types such as monitoring voltage while concurrently measuring voltage drop across the circuit.
- A Fifth High Speed Channel that can directly monitor CAN signals at the DLC connector
- Capture/Record capability to assist in capturing intermittent issues
- Advanced Triggering capability
- Pre-Configured setup configuration for common signals and procedures
- New Time/Angle time based settings (CKP/CMP timing diagnostics)

Vibration Analysis and Driveline Balance
- Similar functionality to the MTS 4000/4100
- Improved user interface with reduced configuration and setup time
- Color display and Record capacity
- Strobe light Pick up loop for improved component identification*
- Second vibration transducer and Dual Plane driveline balance

Digital Multi-Meter
- Monitor up to four independent readings at the same time
- Capture/Record history
- Graphing capability for up to two channels
- Voltage, Current, Resistance, Pulse Width, Duty Cycle, Frequency and Period

Signal Generator
- User configurable settings for signal waveform types: sine, square, triangle, pulse generator, DC voltage and arbitrary
- Verify integrity of module input wiring and the module hardware
- Improved interface and greater adjustability of voltage and frequency

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OPERATING INFO:	TECHNICAL INFO: Ford VCMM		
PC REQUIRED: Yes, 2.1GHz or greater Intel I5/I7 Dual Core	MODEL YEAR COVERAGE: 1996 through current and future Ford vehicles		
OPERATING SYSTEM: Windows 10 Professional	SOFTWARE: Ford IDS, Ford FDRS	AVAILABLE PER DAY: AVAILABLE PER MONTH: AVAILABLE PER YEAR:	2 Day Yes Yes
DEVICES: PC, 8 GB of RAM or greater	SOFTWARE LICENSE: Annual subscription required.		

Ford Gateway Module Breakout Box

For use with Ford and Lincoln vehicles using a Smart Data Link Connector (aka "Gateway Module"). On vehicles equipped with a Gateway Module, only 2 of the 4+ Communication Networks are available for testing at the standard OBD II DLC. The Gateway Module Breakout Box allows for easy access to all communication networks on a vehicle using either a personal DVOM or a VCMM for enhanced readings. This breakout box connects in series between the Gateway Module and the Gateway Module harness connector and allows ALL vehicle networks to be tested without interrupting normal vehicle operation!

Customer Flight Recorder

Monitor and record live data streams on your VCM3 with the assistance of a Ford Customer Flight Recorder (CFR). The cable connects your technicians to a solution for diagnosing intermittent problems on Fords.

*Required pairing: Ford VCM II or VCM 3

Step up to the dealer level with the Ford VCM 3.

When connected to an AE Tools & Computers Custom Laptop with an IDS subscription, this interface opens up complete diagnostic coverage of current Ford and Lincoln vehicles.

GM MDI II

The newest PC based GM Multiple Diagnostic Interface (MDI II) offers increased processing power, security and faster programming speeds on Global A vehicles.

It replaces the first generation MDI introduced in 2007, for Pass-Thru programming on current GM models. The MDI II is backward compatible, so it can be used to perform Pass-Thru programming on all vehicles built since 1996. The MDI II will operate the new CAN BUS diagnostic software. The MDI II is powered from the vehicle battery via the DLC Cable. It may also be powered over USB to perform firmware updates only using a PC.

Includes:
MDI II Unit
SAE J1962 DLC Cable
10-ft. USB A to USB B Cable
Ethernet Cable
D-Link Wireless USB Adapter

OPERATING INFO:

PC REQUIRED: YES

OPERATING SYSTEM: WINDOWS

DEVICES: PC

NOTES:
GDS 2 subscription required for Global A communication

TECHNICAL INFO: GM MDI II

MODEL YEAR COVERAGE: Reprogramming for GM vehicles 1996 and forward. MDI II will not replace the Tech II. (Tech II is still required for some modules.)
Diagnostic coverage for GM Global A and B Vehicles starting with the 2010 Camaro

SOFTWARE: GDS 2 (Global Diagnostic Service), Tech2Win, SPS (Service Programming System)

AVAILABLE PER DAY: 3 Day   AVAILABLE PER MONTH: Yes   AVAILABLE PER YEAR: Yes

SOFTWARE LICENSE: The MDI II must have an active subscription.

WE SELL IT.
WE SUPPORT IT.

Mopar Diagnostic Pod (MDP)

The MDP is the next generation Vehicle Communication Interface (VCI) device. The MDP will be required for Atlantis High Architecture vehicles with CAN-FD and ethernet.
Atlantis High Architecture was introduced on the '21 WL.

MDP Features:
- Backwards compatible with microPod II
- Supports all vehicles the microPod II supports
- Faster CPU
- More Memory
- Faster Storage Speeds
- Protective Boot for improved durability
- 1 year warranty
- WiFi 5 (802.11a/b/g/n/ac) - WiFi on 2.4 and 5 GHz bands
- Faster Operation System (OS) upgrade process
- No IT infrastructure changes required for MDP

Includes:
Mopar Diagnostic Pod, Protective Boot, USB cable,
1 Year wiTECH 2.0 Diagnostic Software subscription,
Lifetime Tech Support

AE Tools is an authorized factory provider of wiTECH 2.0 and Tech Authority Subscriptions!

OPERATING INFO:
PC REQUIRED: ONLY FOR INITIAL INSTALLATION
OPERATING SYSTEM: ANDROID OR iOS
DEVICES: TABLET, PHONE, LAPTOP

TECHNICAL INFO: Mopar Diagnostic Pod (MDP)

MODEL YEAR COVERAGE: 100% CAN equipped vehicle coverage to current

SOFTWARE: wiTECH 2, MOPAR Tech Authority

AVAILABLE PER DAY: 3 Day	AVAILABLE PER MONTH: Yes	AVAILABLE PER YEAR: Yes

SOFTWARE LICENSE: wiTECH2 Diagnostic Application Software included for 1-year. Requires annual renewal. Does not include Tech Authority subscription. wiTECH 2.0 and Tech Authority Subscriptions available through AE Tools & Computers.

MOPAR®

TECH AUTHORITY

3 Day, 1 Month and 1 Year Subcriptions are available!

FCA
FIAT CHRYSLER AUTOMOBILES
NOW AVAILABLE!

AS-BUILT
DATA BY VIN

Now Auto Technicians and Body Repair Shops can get full access to the manufacturers As-Built Data. Program FCA vehicles with confidence!

100% GENUINE
SOFTWARE

1 YEAR

MOPAR. TECH AUTHORITY

1 Year TECH AUTHORITY System Subscription

KEY CODES

Technicians with an LSID can purchase Key Codes and Auth Pins (Skim Codes) through www.MoparKeyCode.com

Usage support is provided by AE Tools & Computers.

wiTECH 2

wiTECH 2.0 allows fully wireless connectivity! Any mobile device with a browser will run the software, including Android and iOS phones and tablets. A Mopar Tech Authority account is required, as well as a Mopar Diagnostic Pod.

FLASH PROGRAMMING — TECH TIP

When programming modules on vehicles, keeping a steady and clean power supply is important. Loss of power or inconsistent power can damage a module when programming, possibly resulting in a damged or unusable module. This can cost your shop time and money! We recommend that an external power supply is connected to the vehicle to provide clean, consistent and proper voltage. Check out our Variable Programming Power Supply on page 69!

FCA
FIAT CHRYSLER AUTOMOBILES
FLASH PROGRAMMING

Vehicle Programming Subscription
AVAILABLE NOW!

DRB III Emulator

This is the exact scan tool software application used in Chrysler, Jeep and Dodge dealerships to service non-CAN based vehicles from 1998 to 2007. The DRB III Emulator software application runs on your PC and interfaces with the DRB III+ hardware device to enable all* the functions of the original Chrysler DRB III Scan Tool and more. This software package comes with non-powertrain ECU programming files to enable reflashing everything from BCMs to sliding door modules.

DRB III Emulator works with Sebring and Stratus models.

• This hardware setup comes equipped with the addition of a J2534 HS CAN Pass-Thru interface
• Allows interface with U-Scan OBD II diagnostic application

Optional: Multiplex Cable available for Sprinter and Crossfire.

Includes:

DRB III Emulator Software, DRB III+ hardware interface, vehicle cable, USB cable, and software license

Add On:
Multiplex Cable for Sprinter and Crossfire Coverage*

*Requires DRB III and Software upgrade

OPERATING INFO:	
PC REQUIRED: YES	
OPERATING SYSTEM: WINDOWS	
DEVICES: LAPTOP	

TECHNICAL INFO: DRB III Emulator

MODEL YEAR COVERAGE: non-CAN based vehicles from 1998-2007

SOFTWARE: DRB III Emulator and Multiplex software

AVAILABLE PER DAY: No	AVAILABLE PER MONTH: No	AVAILABLE PER YEAR: Yes

SOFTWARE LICENSE: Annual subscription required. *Note that Powertrain flash files are supported though the Tech Authority website and require a separate subscription.

Genesis GDSM

This is the latest OEM diagnostic set up for comprehensive coverage on all Genesis vehicles. The tablet-based system offers full wireless diagnostics, all dealer-level functions, DTC analysis, programming, key registration and more. Allows technicians to quickly and easily check and update every electronic system in the car.

Includes:
User Manual, Tablet, Carrying Case, VCI Module, Trigger Module, TPMS Module, Mini USB Cable, Cables, Software, One Year Software Subscription

OPERATING INFO:
PC REQUIRED: NO
OPERATING SYSTEM: ANDROID
DEVICES: TABLET
NOTES:

TECHNICAL INFO: Genesis GDSM

MODEL YEAR COVERAGE: All		
SOFTWARE: GDS	AVAILABLE PER DAY:	No
	AVAILABLE PER MONTH:	No
	AVAILABLE PER YEAR:	Yes
SOFTWARE LICENSE: Annual subscription required		

Hyundai GDS Mobile

This is the latest OEM diagnostic set up for comprehensive coverage on all Hyundai vehicles. The tablet-based system offers full wireless diagnostics, all dealer-level functions, DTC analysis, programming, key registration and more. New vehicle software management technology allows technicians to quickly and easily check and update every electronic system in the car. The new GDS II also boosts speeds over two times faster than the previous GDS tool.

- Full Wireless Diagnostics
- Run diagnostic functions and check service information
- Optimized user interface
- Automated vehicle selection using VIN
- All DTCs can be scanned by one touch for all systems

*For complete coverage both the GDS and GDS Mobile are required.

Includes:
User Manual, Tablet, Carrying Case, VCI Module, Trigger Module, Mini USB Cable, [26pin -16pin] DLC Cable, [16pin-20pin(R)] Adapter, [16pin -12pin] DLC Cable, Battery Power Extension Cable, (10-8-2) Adapter (self-test) Adapter, 6p--DC jack, AC-DC Power Adapter

The Hyundai GDS Mobile interface can also operate as the KIA OEM diagnostic solution. Separate software, dedicated PC or a PC with partitioned hard drive, tablet and adapters required.

OPERATING INFO:		
PC REQUIRED: NO		
OPERATING SYSTEM: ANDROID		
DEVICES: TABLET		
NOTES: Tablet is required		

TECHNICAL INFO: Hyundai GDS Mobile		
MODEL YEAR COVERAGE: 1996 to current		
SOFTWARE: Hyundai GDS	AVAILABLE PER DAY:	No
	AVAILABLE PER MONTH:	No
	AVAILABLE PER YEAR:	Yes
SOFTWARE LICENSE: Annual Hyundai GDS subscription required		

KIA KDS

This is the latest OEM diagnostic set up for comprehensive coverage on all KIA vehicles, including hybrids. The tablet-based system offers full wireless diagnostics, all dealer-level functions, DTC analysis, programming, key registration and more. New vehicle software management technology allows technicians to quickly and easily check and update every electronic system in the car. The new GDS II also boosts speeds over two times faster than the previous GDS tool.

- Full Wireless Diagnostics
- Run diagnostic functions and checks service information
- Optimized user interface
- Automated vehicle selection using VIN
- All DTCs can be scanned by one touch for all systems

*For complete coverage both the GDS and KDS are required.
*Original KIA GDS tool is still required for flash programming of
  some modules.

Includes:
User Manual, Tablet, Carrying Case, VCI Module, Trigger Module, Mini USB Cable, [26pin -16pin] DLC Cable, [16pin-20pin(R)] Adapter, [16pin -12pin] DLC Cable, Battery Power Extension Cable, (10-8-2) Adapter (self-test) Adapter, 6p--DC jack, AC-DC Power Adapter

The Kia KDS interface can also operate as the Hyundai OEM diagnostic solution.
Separate software, dedicated PC or a PC with partitioned hard drive, tablet and adapters required.

OPERATING INFO:
PC REQUIRED: NO
OPERATING SYSTEM: ANDROID
DEVICES: TABLET
NOTES: Tablet is required

TECHNICAL INFO: Kia KDS

MODEL YEAR COVERAGE: 1996 to current		
SOFTWARE: Kia KDS	AVAILABLE PER DAY:	No
	AVAILABLE PER MONTH:	No
	AVAILABLE PER YEAR:	Yes
SOFTWARE LICENSE: Annual Kia GDS subscription required		

JLR DoiP VCI SDD Pathfinder

The JLR DoIP VCI is the newest interface for Jaguar and Land Rover vehicles. Jaguar Land Rover DoIP VCI is the only unit that is compatible with Pathfinder and all JLR vehicles with the new vehicle architecture (from the Range Rover/Range Rover Sport (L405/L494) 2017 to current). The DoIP is capable of interfacing with 2104-current Multi can Architecture vehicle lines on pathfinder and Topix cloud diagnostic systems. Topix cloud requires the diagnostic device agent drivers to be installed.

- Works with all Jaguar & Land Rover models 2005 to current
- Supports Pathfinder software application, 2017 to current
- Supports SDD software, 2016 and older
- Supports SDD's diagnostic & programming protocol
- Supports Pathfinder's diagnostic & programming protocol
- Supports SDD engineering software application
- Supports Pathfinder engineering software application
- Supports online programming, coding & key programming
- Supports Topix cloud diagnostics on 2021 and newer vehicles

Includes:

JLR DoIP VCI
USB Cable
Diagnostic Connector Cable
Ethernet Cable
WLAN USB Stick

OPERATING INFO:	
PC REQUIRED: YES	
OPERATING SYSTEM: WINDOWS	
DEVICES: LAPTOP	
NOTES: Setup and support may require additional fees.	

TECHNICAL INFO: JLR DoiP VCI SDD Pathfinder

MODEL YEAR COVERAGE: 2005 to current

SOFTWARE: Pathfinder, SDD

AVAILABLE PER DAY:	No
AVAILABLE PER MONTH:	Yes
AVAILABLE PER YEAR:	Yes

SOFTWARE LICENSE: Annual subscription required

YOU HAVE TECH SUPPORT

JLR00010 - JLR-00005-DoIP SST

Jaguar Land Rover Approved device.
Operates standalone with special applications: DEF, DPFDR, EPBR, Oil Level, SIR, TM Toggle, TTM Toggle, Force Ignition. The JLR DoIP SST is a simple to use hand-held device designed to allow the service technician to quickly and simply carry out general daily service functions using applications approved by Jaguar Land Rover.

The JLR DoIP SST hand-held device operates independently without any need to be connected to the approved diagnostic system or a PC. The JLR DoIP SST hand-held device connects directly to the vehicle via the diagnostic connector and can be controlled using the keypad.

Usage/Models:

Land Rover Discovery (L462)	XJ (X351)
Land Rover Discovery Sport (L550)	XF (X260)
Range Rover (L405)	XF (X250)
Range Rover Sport (L494)	F-Type (X152)
Range Rover Velar (L560)	XE (X760)
Land Rover Discovery (L319)	F-PACE (X761)
Range Rover Sport (L320)	E-PACE (X540)
Range Rover (L322)	XK (X150)
Freelander 2 (L359)	
Range Rover Evoque (L539)	

Approved Jaguar & Land Rover Vehicle Application List

SIR – Service Interval Reset • This application resets the service light and/or oil change reset depending on the vehicle.

EPBR – Electronic Park Brake Release • Moves the electronic park brake to the mount position and then releases the brake callipers.

DPFDR – DPF Dynamic Regeneration • The DPFDR application allows the vehicles DPF dynamic regeneration process to be undertaken to clear the DPF of soot build up.

Oil Level Measurement • Displays current engine oil level instantaneously on screen with a bar graph and actual levels.

Diesel Exhaust Fuel (DEF) • Allows the Diesel Exhaust Fluid (DEF or AdBlue®) level to be constantly monitored, and displays the amount required to refill the tank.

TM Toggle – Transport Mode Toggle • The Transport Mode Toggle application allows the vehicle to be placed in and out of Transport mode including speed limit and air suspension depending on vehicle variant.

TTM Toggle – Tight Tolerance Mode Toggle • The Tight Tolerance Mode Toggle application allows the vehicle to be placed in and out of Tight Tolerance mode depending on vehicle variant.

Force Ignition • The Force Ignition Application turns the vehicles ignition on and holds it in the on position for as long as the JLR SST is connected to the vehicle and the application is running.

JLR DA-DoIP Dongle (D-PDU Pass Thru)

- Jaguar Land Rover Approved device.
- Works with Jaguar Land Rover Pathfinder software.
- Covers DoIP, CAN, MultiCAN protocols.
- 2m USB Cable included.
- Easy to update for D-PDU new functionality updates.

The DA-DoIP Dongle connects directly to the vehicle OBDII (Diagnostic) connector, it then connects to the laptop via a USB cable for use with Jaguar Land Rover Pathfinder. Once the D-PDU driver files are loaded, this product will allow normal operation with the Jaguar Land Rover Pathfinder software. The DA-DoIP Dongle has been verified and tested by Jaguar Land Rover for correct operation.

The DA-DoIP Dongle is simple and easy to use. The D-PDU drivers are available to download and install from the internet. Connect the DA-DoIP Dongle device to the vehicle OBD II connector (the device powers from the vehicle), then connect the 2m USB cable to the DA-DoIP Dongle and the other end to the laptop. The (PWR) LED will turn solid red to show the DA-DoIP Dongle is powered. During communication with the vehicle the Status (STS) LED will flash green.

Periodically the device's firmware is updated via the DA App Hub and other supporting software via the internet. These updates are necessary to either release further device functionality or to resolve field issues.

Vehicle Coverage:

The DA-DoIP Dongle has been tested by Jaguar Land Rover on the latest vehicle range covered by Pathfinder.

*Note: It does not support older ISO9141, J1850 PWM protocols or FEPS programming voltages found on older vehicles.

**Note : A separate subscription is required for JLR TOPIX SDD/Pathfinder diagnostic platforms.

BMW ICOM Next A,B,C

The BMW ICOM Next A,B and C is a single diagnostic interface for BMW, MINI and Rolls-Royce models. This is the latest OEM Diagnostic Solution for BMW. The new interface is functionally and mechanically compatible to ICOM A2 and backwards compatible to car adapters (ICOM B, C) and motorcycle adapters (ICOM D,E).

Includes:
BMW ICOM Next A+B+C
BMW 20pin Cable
USB Cable
LAN Cable
OBD Cable
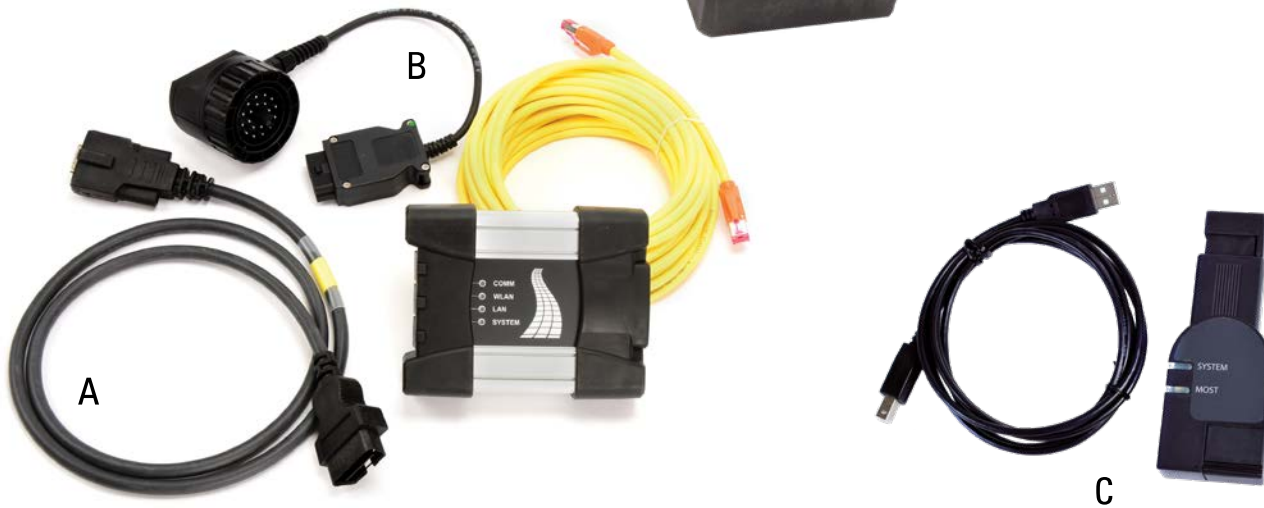
- A - OBD diagnostic supporting MOST, D-CAN and K-CAN protocols
- B - diagnostic via MOST bus, and have connection to A-interface via USB connection
- C - 20-pin cable for older models

OPERATING INFO:
PC REQUIRED: YES
OPERATING SYSTEM: WINDOWS
DEVICES: LAPTOP
NOTES: Setup and support may require additional fees.

TECHNICAL INFO: BMW iCOMM A, B, C

MODEL YEAR COVERAGE: 1995 - current

SOFTWARE AVAILABLE PER DAY: Yes   **AVAILABLE PER MONTH:** Yes   **AVAILABLE PER YEAR:** Yes

SOFTWARE LICENSE: Annual subscription required

Mitsubishi MUT III Lite Kit w/ Cables

The Mitsubishi MUT III Lite provides diagnostic coverage of Mitsubishi vehicles. The newest OEM diagnostic tool for Mitsubishi vehicles is the MUT III Lite. This is the authentic Mitsubishi Motors North America, Inc. diagnostic tool as used every day by Mitsubishi technicians in service departments. It supports all K-Line and CAN protocols.

Includes:

VCI
Case
Cables A, B, C
OBD I, II Cables
Lifetime Tech Support

OPERATING INFO:
PC REQUIRED: YES
OPERATING SYSTEM: WINDOWS
DEVICES: LAPTOP
NOTES:
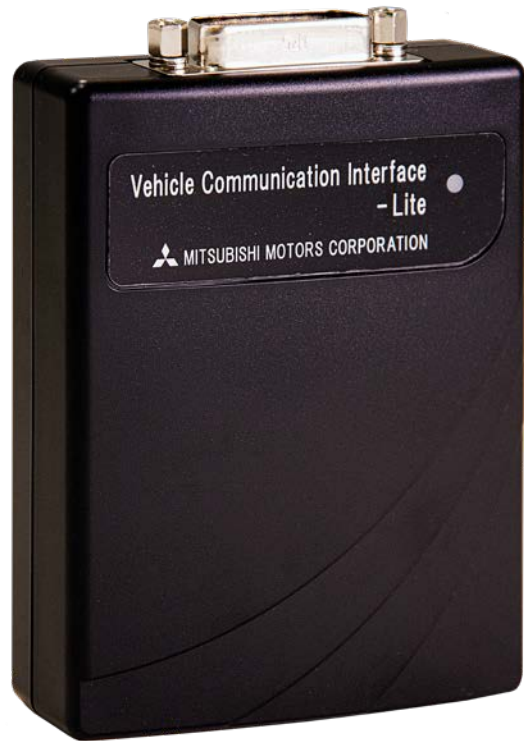
TECHNICAL INFO: Mitsubishi Mut III Lite Kit w/ Cables

MODEL YEAR COVERAGE: Diagnosis and repair of all vehicles sold by Mitsubishi Motors from 1984 to present

SOFTWARE AVAILABLE PER DAY: No   **AVAILABLE PER MONTH:** No   **AVAILABLE PER YEAR:** Yes

SOFTWARE LICENSE: Annual subscription required

Mazda VCM II

The Mazda VCM II with an IDS / MDARS subscription provides complete diagnostic coverage of all OBD II Mazda vehicles. You'll be set up with all the dealership diagnostic capabilities- module reprogramming, key programming, calibrations, special functions and more.

• Tool can communicate wirelessly with your laptop
• Automatic Vehicle Recognition
• Performs all dealer-level functions

Includes:

Mazda VCM II
DLC cable – 1.8m (6ft)
USB cable – 3.1m (10ft)
Mazda VCM II hardware manual DVD

OPERATING INFO:	
PC REQUIRED: YES	
OPERATING SYSTEM: WINDOWS	
DEVICES: LAPTOP	
NOTES: Serial Number is required when IDS/MDARS subscription is purchased to activate the VCM II.	

TECHNICAL INFO: Mazda VCM II

MODEL YEAR COVERAGE: All OBD II vehicles and future Mazda vehicles. IDS software is only for 6th generation vehicles and earlier. MDARS is needed for 7th generation vehicles.

SOFTWARE AVAILABLE PER DAY: No   **AVAILABLE PER MONTH:** No   **AVAILABLE PER YEAR:** Yes

SOFTWARE LICENSE: Annual Mazda IDS subscription required

Nissan Mitsubishi Renault VI3

The Nissan ADT VI3 interface is the new dealer diagnostic interface that works with Nissan Consult III Plus application to diagnose and program Nissan Infiniti vehicles. This new VI3 interface works with the Nissan EV vehicle line for diagnostics. The Nissan VI3 replaces the older Consult 3 plus diagnostic tool.

The brand-new Nissan VI3 does it all via OBD II with full scanning and diagnostic, full module programming, and key immobilizer functions and key programming. This hardware kit is found in all the Nissans factory dealerships.

This hardware kit when paired with the Nissan Factory software also covers all the Nissan ADAS diagnostics. It will program and set all blind spot warnings and mirror and bumper replacements.

Nissan Consult VI3 diagnostic hardware kit has full immobilizer and key programming functions as well. The Nissan Consult 3 diagnostic hardware kit also programs a blank key to a full functioning factory key easily.

Includes:
Nissan VI3 Interface Unit
Wi-Fi Dongles
USB Cable
16 Pin DLC Cable
Instructions & Quick Start Guide

OPERATING INFO:
PC REQUIRED: YES
OPERATING SYSTEM: WINDOWS
DEVICES: LAPTOP

TECHNICAL INFO: Nissan Mitsubishi Renault VI3

MODEL YEAR COVERAGE: The Consult-III Plus is required for all 2013 and newer Nissan ® and Infiniti ® vehicles. In addition, the Consult-III Plus is required for all: 2011 and newer Nissan ® LEAF, Quest, and Murano Cross Cabriolet vehicles; 2012 and newer Nissan ® GT-R and NV vehicles; and 2012 and newer Infiniti ® M and M Hybrid vehicles. The Consult-III Plus software is continuously being updated to accommodate new vehicles as well as older model years dating back to 1996.

SOFTWARE AVAILABLE PER DAY: No   **AVAILABLE PER MONTH:** No   **AVAILABLE PER YEAR:** Yes

SOFTWARE LICENSE: Requires a software license with annual renewal

Subaru Denso DST-i

The Subaru Denso DST-i interface and software is the OEM diagnostic solution for all 2004 and newer Subaru vehicles. This is the same tool the Subaru Dealership uses. The DST-i can be used in combination with Subaru Select Monitor III software (SSMIII) for all 2004 to 2015 vehicles. On 2016 and newer vehicles the DST-i must be used with Subaru Select Monitor 4 software (SSM4).

- Procedures for Programmable Module Installation
- Module Reprogramming
- Coding
- Supplemental restraints initialization
- All other Dealer Functions

Includes:

DST-i Interface
OBD Cable
USB Cable
USB Spacer
Flash Drive with Subaru Software
Case

OPERATING INFO:		TECHNICAL INFO: Subaru Denso DST-i	
PC REQUIRED: YES		MODEL YEAR COVERAGE:	The DST-i can be used in combination with Subaru Select Monitor III software (SSMIII) for all 2004 to 2015 vehicles. On 2016 and new vehicles the DST-i must be used with Subaru Select Monitor 4 software (SSM4).
OPERATING SYSTEM: WINDOWS			
DEVICES: LAPTOP		SOFTWARE AVAILABLE PER DAY: No AVAILABLE PER MONTH: No AVAILABLE PER YEAR: Yes	
NOTES: Setup and support may require additional fees.		SOFTWARE LICENSE: Annual subscription required	

SUZUKI SDT 2 Smart Diagnostic Tester

SUZUKI SDT 2 Smart Diagnostic Tool Kit is the new generation PC based diagnostic tool from Suzuki. This tool is faster compared to older SDT, and it supports immobilizer functions. The SDT 2 has similar diagnostic features compared to the original SDT, plus new features like VIN Lookup, Vehicle Health, and Communication Bus Check. The SDT 2 WiFi dongle allows you to diagnose vehicles remotely from your workbench. SDT 2 requires a software subscription.

To perform the Immobilizer programming for keys and fobs, you must have the SDT 2 diagnostic tool, and the Immobilizer Dongle.

Includes:
VCI
Power supply
USB cable
DLC cable
Hard shell case
DVD

OPERATING INFO:	TECHNICAL INFO: SUZUKI SDT 2 SMART DIAGNOSTIC TESTER
PC REQUIRED: YES	**MODEL YEAR COVERAGE:** 1995 - current
OPERATING SYSTEM: WINDOWS	
DEVICES: LAPTOP	
NOTES: Setup and support may require additional fees.	**SOFTWARE AVAILABLE PER DAY:** No **AVAILABLE PER MONTH:** Yes **AVAILABLE PER YEAR:** Yes
	SOFTWARE LICENSE: Annual subscription required

"We have been using AE Tool & Computers for years. Their equipment keeps our technicians in the know on diagnostics and programming and enables us to complete work quickly and efficiently. The tech support we receive is top notch and they are always ready to answer questions and assist with anything we need. This helps keep our shop running smoothly, quickly and efficiently which in turn makes our shop more profitable. "

- Shane Edwards
General Manager
i70 Auto Service

100% REAL SOLUTIONS.

AFTERMARKET

AFTERMARKET SOLUTIONS FOR THE SAVVY TECHNICIAN

All aftermarket tools are not created equal. That's why we only sell and support aftermarket tools that truly get the job done; legitimate OEM alternatives! From scan tools and oscilloscopes to leak detectors and battery diagnostic tools, AE Tools & Computers is your complete solution.

**REAL SUPPORT.
REAL SOLUTIONS.**

AUTEL® MaxiSYS Ultra

The MaxiSys Ultra is Autel's most ambitious diagnostics tablet designed to maximize technician intelligence. It features a 12.9" touchscreen tablet with Android 7.0 OS, powered by an Octa-core processor (2.3GHz Quad + 1.7GHz Quad), substantial 256GB built-in memory, all powering the new split-screen multi-application navigation to provide diagnostic guidance and test components to confirm repairs. Combined with dynamic topology module mapping, enhanced AutoSCAN features and Intelligent Diagnostics options, the Ultra offers the technicians step-by-step repair guidance. The new MaxiFlash VCMI functions as a 4-channel oscilloscope, waveform generator, multimeter, and CAN BUS tester. The convenient docking stationensures you always have the power to scan.

- Autel updates provide latest OE level coverage for more than 80 US Domestic, Asian and European vehicles, including supercars
- Exceptional OE-Level functionality from comprehensive OBD II diagnostics & services to advanced ECU coding and programming
- Automatic system and software updates with real-time push message notifications via the internet
- Interactive Data Logging sessions enable direct contact with Tech Support for first-hand troubleshooting of diagnostic bugs and errors
- One-stop multitasking designed for ideal management of workshop operations to keep all data files, customer info, and vehicle records well organized
- Cloud-based Data Manager saves customer and vehicle records, scanner data and technician notes

Operating System	Android 7.0
Processor	Samsung Exynos8895V octa-core Processor (2.3GHz Quad-core Mongoose + 1.7GHz Quad-core A53)
Memory	4GB RAM & 256GB On-board Memory
Display	12.9" TFT-LCD with 2732 x 2048 resolution & capacitive touch screen
Connectivity	WiFix2 (802.11 a/b/g/n/ac 2x2 MIMO), BT v.2.1 + EDR, GPS, USB 2.0 (Two USB HOST) Type A, one USB mini device), HDMI 2.0, SD Card (Support up to 256GB)
Camera	Rear: 16 Megapixel, Autofocus with Flashlight, Front: 5 Megapixel
Sensors	Gravity Accelerometer, Ambient Light Sensor (ALS)
Audio Input/Output	Microphone, Dual Speakers, 3-Band 3.5 mm stereo/standard headset jack
Power and Battery	18000mAh 3.8 V lithium-polymer battery, Charging via 12 V AC/DC power supply
Dimensions (WxHxD)	366.5 mm (14.43") x 280.9 mm (11.06") x 34 mm (1.34")
Weight	2.18kg (4.81 lb.)
Protocols	DoIP, PLC J2497, ISO-15765, SAE-J1939, ISO-14229 UDS, SAE-J2411 Single Wire Can (GMLAN), ISO-11898-2, ISO-11898-3, SAE-J2819 (TP20), TP16, ISO-9141, ISO-14230, SAE-J2610 (Chrysler SCI), UART Echo Byte, SAE-J2809 (Honda Diag-H), SAE-J2740 (GM ALDL), SAE-J1567 (CCD BUS), Ford UBP, Nissan DDL UART with Clock, BMW DS2, BMW DS1, SAE J2819 (VAG KW81), KW82, SAE J1708, SAE-J1850 PWM (Ford SCP), SAE-J1850 VPW, (GM Class2)

AUTEL MaxiSYS MS919

MaxiSYS MS919 is a 9.7" touchscreen Android-based advanced diagnostic tablet powered by an Octa-core processor (2.2GHz Quad + 1.8GHz Quad) with 128GB of memory. It features the MaxiFlash VCMI, a 5-in-1 communication and testing tool providing wireless vehicle communications between the vehicle and tablet and supporting the latest DoIP, D-PDU and Mega CAN vehicle communication protocols. The VCMI also functions as a 4-channel oscilloscope, waveform generator, multimeter and Can BUS tester. The MS919 features dynamic topology module mapping for supported vehicles. The Intelligent Diagnostics feature guides the technician from code to repair to test with detailed repair information and illustrations, and Oscilloscope preset guides, tests and waveform library. The MS919 features a rechargeable Lithium battery providing 8 hours of continuous use, and front and rear cameras.

- Autel updates provide latest OE level coverage for more than 80 US Domestic, Asian and European vehicles, including supercars
- Exceptional OE-Level functionality from comprehensive OBD II diagnostics & services to advanced ECU coding and programming
- Automatic system and software updates with real-time push message notifications via internet
- Interactive Data Logging sessions enable direct contact with Tech Support for first-hand troubleshooting of diagnostic bugs and errors
- One-stop multitasking designed for ideal management of workshop operations to keep all data files, customer info, and vehicle records well organized
- Cloud-based Data Manager saves customer and vehicle records, scanner data and technician notes

Operating System	Android 7.0
Processor	Qualcomm 660 Octa-coreProcessor (2.2GHzQuad-coreA73 +1.8GHzQuad-core A53)
Memory	4GB RAM & 128GB On-board Memory
Display	9.7" TFT-LCD with 1536 x 2048 resolution & capacitive touchscreen
Connectivity	Dual Wi-Fi (802.11 a/b/g/n/ac 2x2 MIMO), BT V5.0 + BR/EDR, GPS, USB 2.0 (2 USB TYPE-A ports and a Mini USB port), HDMI 2.0, SD Card (Support up to 256GB)
Camera	Rear: 16 Megapixel, Autofocus with Flashlight, Front: 16 Megapixel
Sensors	Gravity Accelerometer, Ambient Light Sensor (ALS)
Audio Input/Output	Microphone, Dual Speakers, 3-Band 3.5 mm stereo/standard headset jack
Power and Battery	15000mAh 3.8V lithium-polymer battery, Charging via 12V AC/DC power supply
Dimensions (WxHxD)	304.4 mm (11.98") x 227.8 mm (8.97") x 42.5 mm (1.67")
Weight	1.66kg (3.66lb.)
Protocols	DoIP, PLC J2497, ISO-15765, SAE-J1939, ISO-14229 UDS, SAE-J2411 Single Wire Can(GMLAN), ISO-11897-2, ISO-11897-3, SAE-J2819 (TP20), TP16, ISO-9141, ISO-14230, SAE-J2610 (Chysler SCI), UART Echo Byte, SAE-J2809 (Honda Diag-H), SAE-J2740 (GM ALDL), SAE-J1567 (CCD BUS), Ford UBP, Nissan DDL UART with Clock, BMW DS2, BMW DS1, SAE J2819 (VAG KW81), KW82, SAE J1708, SAE-J1850 PWM (Ford SCP), SAE-J1850 VPW (GM Class2)

AUTEL MaxiSYS MS909

The MaxiSYS MS909 is a 9.7" touchscreen Android-based advanced diagnostic tablet powered by an Octa-core processor (2.2GHz Quad + 1.8GHz Quad) with 128GB of memory and features an advanced VCI supporting latest DoIP, D-PDU and Mega CAN vehicle communication protocols. The MS909 features topology module mapping capability for supported vehicles and an Intelligent Diagnostics feature that guides the technician from code to repair to test with detailed repair information and illustrations. The MS909 features a rechargeable Lithium battery providing 8 hours of continuous use, and front and rear cameras.

- Autel updates provide latest OE level coverage for more than 80 US Domestic, Asian and European vehicles, including supercar

- Exceptional OE-Level functionality from comprehensive OBD II diagnostics & services to advanced ECU coding and programming

- Automatic system and software updates with real-time push message notifications via the internet

- Interactive Data Logging sessions enable direct contact with Tech Support for first-hand troubleshooting of diagnostic bugs and errors

- One-stop multitasking designed for ideal management of workshop operations to keep all data files, customer info, and vehicle records well organized

- Cloud-based Data Manager saves customer and vehicle records, scanner data and technician notes

Operating System	Android 7.0
Processor	Qualcomm 660 Octa-core Processor (2.2GHz Quad-core A73 + 1.8GHz Quad-core A53)
Memory	4GB RAM & 128GB On-board Memory
Display	9.7" TFT-LCD with 1536 x 2048 resolution & capacitive touch screen
Connectivity	Dual Wi-Fi (802.11 a/b/g/n/ac 2x2 MIMO), BT V5.0 + BR/EDR, GPS, USB 2.0 (2 USB TYPE-A ports and a Mini USB port), HDMI 2.0, SD Card (Support up to 256GB)
Camera	Rear: 16 Megapixel, Autofocus with Flashlight, Front: 16 Megapixel
Audio Input/Output	Microphone, Dual Speakers, 3-Band 3.5 mm stereo/standard headset jac
Power and Battery	15000mAH 3.8V lithium-polymer battery Charging via 12V AC/DC power supply
Input Voltage	12V/1.3A Adapter
Dimensions(W x H x D)	304.4 mm (11.98") x 227.8 mm (8.97") x 42.5 mm (1.67")
Weight	1.66kg (3.66 lb.)
Protocols	DoIP, PLC J2497, ISO-15765, SAE-J1939, ISO-14229 UDS, SAE-J2411 Single Wire Can(GMLAN), ISO-11898-2, ISO-11898-3, SAE-J2819 (TP20), TP16, ISO-9141, ISO-14230, SAE-J2610 (Chrysler SCI), UART Echo Byte, SAE-J2809 (Honda Diag-H), SAE-J2740 (GM ALDL), SAE-J1567 (CCD BUS), Ford UBP, Nissan DDL UART with Clock, BMW DS2, BMW DS1, SAE J2819 (VAG KW81), KW82, SAE J1708, SAE-J1850 PWM (Ford SCP), SAE-J1850 VPW (GM Class2)

AUTEL® MaxiFlash VCMI

The VCMI is a full coverage multi-functional Wi-Fi VCI with a built-in Oscilloscope, Multimeter, Signal Generator, and has OBD Bus Check Functions. Furthermore, it is the only Wi-Fi VCMI currently sold that supports D-PDU, RP1210, CANFD. J2534 and DoIP protocols.

• Built-In Oscilloscope - The 4 Channel Oscilloscope is faster with 20MHz Bandwidth, more accurate with 80MS/s Sampling Data Rate, and a 32MB memory buffer that stores more complex signals, zoom and replay. The preset Guided Test and Waveform Library instruct technicians on use and fault analysis. Includes a large number of cloud preset cases including connection diagrams, waveform library, reference waveforms, fault case analysis and one-press waveform settings.

• Built-In Waveform Generator - he Waveform Generator is used to test a sensor, an actuator, or an ECU without the need to replace them one by one to identify the fault. This is done by simulating signals of various sensors and ECUs, identifying hardware issues.
• Simulates sensor signals to quickly diagnose ECU, sensor, and wiring harness issues.
• Simulates ECU signals to perform active tests to verify functions of certain parts (Electronic fan, solenoid valves etc).
• Simulates actuator signals and verifies the communication status between the actuator and ECU (Electronic fan, solenoid valve, headlight).
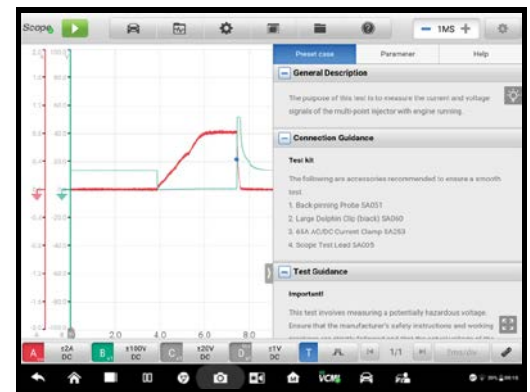
AUTEL® MaxiSYS MSOAK

The MSOAK is compatible with the MaxiFlash VCMI included with the MSUltra and MS919, and the MP408 4-channel oscilloscope (sold separately), includes the 65A AC/DC Current Clamp, 650A AC/DC Current Clamp, Coil On Plug Probe, HT Extension Lead (2pcs) and Battery Clip (2pcs), with a hard shell carrying case.

• Compatible with the MSULTRA, MS919 & MP408
• Includes 65A AC/DC Current Clamp, 650A AC/DC Current Clamp, Coil on Plug Probe, HT Extension Lead (2pcs) and Battery Clip (2pcs)
• Includes Carrying Case
• Includes 1-Year Warranty

AUTEL MaxiVCI VCI200

The MaxiVCI VC200 is a Bluetooth vehicle communication interface. This is an optional Bluetooth VCI adapter for the MaxiSYS series of tools and a replacement dongle for the MaxiBAS and new MaxiSYS tools.

Compatible with the current line of Autel MaxiSyS Diagnostic Tablets:
MS906Pro, MS906Pro-TS, MS909, MS919, Ultra, MS906TS, MK908, MS908, MS908S Pro, MS908 Pro and MK908P. MaxiBAS BT608, MaxiBAS BT609, ITS600, ITS600Pro
Autel MaxiIM series IM508/IM608/IM608PRO.
Supports the latest OBD2 Protocols: DoIP and CAN-FD (4-pin sets).

Features:
• Wirelessly connects vehicle ECU to MaxiSYS tablets supporting Bluetooth
• Convenient wireless Bluetooth technology enables technician to perform diagnostics outside of vehicle
• Supports comprehensive diagnosis and reading of control modules
• Ultra-fast OBD II port communication within 75 feet
• Updateable software via the Internet

AUTEL MaxiFlash Elite

As a multi-protocol Pass-Thru vehicle interface, MaxiFlash Elite is a fully compliant SAE J2534-1 & SAE J2534-2 (March 2006) device, specially designed to provide users with convenient PC communication and ECU reprogramming capabilities on any modern vehicle diagnostic bus.

AE TOOLS &COMPUTERS IS AN AUTHORIZED **AUTEL** DISTRIBUTOR

YOU HAVE TECH SUPPORT!

AUTEL® MaxiVideo MV105/108

The MV105/108 digital inspection camera is designed to work with MaxiSYS series products* or a PC. It turns your MaxiSYS tablet into a video inspection scope, allowing you to examine difficult-to-reach areas normally hidden from sight. It is capable of recording digital still images and videos.

(*Does not work with MaxiSYS 906)

- White LED lights to illuminate the inspection areas.
- Small diameter allows it to be used in the tight spaces.
- Wonderful for up-close visual inspections in confined areas, such as engine cylinders and small part inspections.
- Powerful and perfect for inspecting most spark plug holes.
- Super bright LED and high resolution provide crystal clear images.

iC Inspection Camera

ATS AUTOMOTIVE Test Solutions

The iC is the only medical grade fully articulating digital borescope on the market!

• The iC Inspection Camera is a medical grade video camera that delivers superior images on your Windows computer, tablet, or Android phone display.

• Captures high resolution still pictures and records full length videos at the touch of a button.

• Snap Shots can be taken from recorded videos instantly.

• One-handed articulation function allows user to turn the probe tip to inspect targets located at sides or at an angle while inside tight spaces.

• 6.0 mm probe with 150 degree articulation, and 360 degree rotation.

• The extra long 3 foot probe cable allows inspection of A/C ducts, evaporator core assemblies and much more.

• Comes with an ultra-secure thread on mirror and light for side viewing.

• Boost key allows software to run optimal brightness enhancement in dark environments.

• Rotate image in 90 degree increments.

• Zoom feature allows 4x crystal clear image enlargement.

• Mirror image flip key.

• Package Includes: articulating 6.0mm diameter probe with 3 foot long probe cable, Android adapter kit, camera lens cleaning kit, user manual and hard carrying bag.

• 1 year limited warranty.

System Requirements:
• Runs on most Intel or AMD Processor Windows based PC with type A USB 2.0 port.
  Will NOT run on the Microsoft Surface Pro X ARM64-based PC with the Microsoft SQ1 processor.

• Runs on Windows 7 Service Pack 1 through Windows 11 operating systems including Windows 11 tablets (Windows RT tablets are not supported)

150 degree articulation
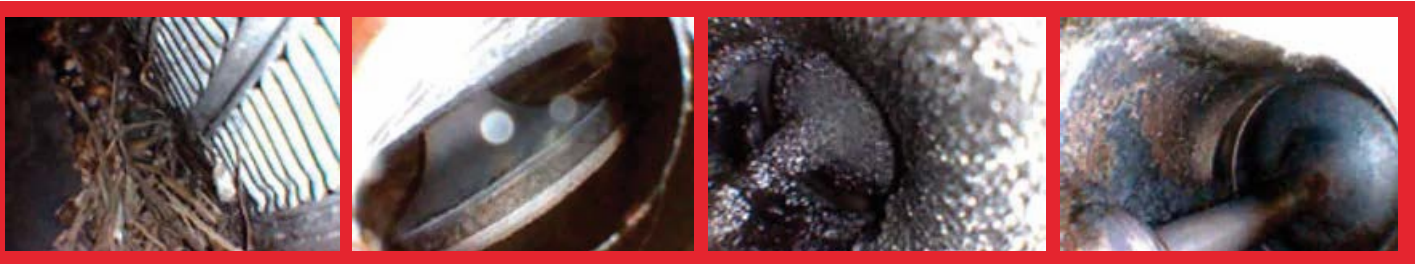
Mouse nest in A/C   Bad Exhaust Seat   Intake Port   D.I. Intake Port

TOPDON® Tornado90000

The Tornado90000 is TOPDON's cutting-edge smart charger, made for professional and commercial users, repair stations and more. This device is suitable for 12V and 24V lead-acid batteries, with a wide battery capacity range from 5 to 90 amps. The Tornado90000 features a current/voltage edit function and supplies users with the needed protection for batteries through its 9-step smart charging method and six charging modes, all backed by a three-year warranty.

- A stable power supply for your devices
- 6 charging modes to ensure the correct current and voltage output at all times
- Comes with a 3 year warranty
- Powers a wide array of in-car appliances, Including tire inflators, car vacuums, car fridges and more
- ECU Programming voltage stabilizer
- Suitable for batteries from 5 to 90 amps
- Charges 12V & 24V AGM, WET, GEL, MF, CAL, and EFB batteries
- Protects against reverse polarities, reverse charges, short circuits, overheating, and over-voltages
- Built-in temperature sensor protects the device being charged
- Internal and external temperatures are calculated simultaneously and continuously

AUTEL MaxiBAS BT609

The MaxiBAS BT609 wireless battery and diagnostics system applies Adaptive Conductance, an advanced battery analysis method that produces a more accurate examination of the battery's cold cranking ability and reserve capacity, vital to determining a battery's true health. The 7-inch Android touchscreen tablet can display a quick health status of the existing battery, register a new battery and perform advanced battery and electrical system diagnostics. The BT609's features include AutoVIN to immediately identify vehicle and battery information and to display graphic instructions for battery positioning and testing. Features a service menu and Read/Clear codes on all available vehicle systems. Performs common maintenance services. It can also print or share customized reports via Wi-Fi.

- Support in-vehicle and out-of-vehicle testing of passenger vehicle batteries.
- Test 12-volt batteries: 100 – 3000 CCA
- Test 12-volt cranking/charging systems
- Test Flooded, AGM, AGM Spiral, EFB and GEL batteries
- Compatible with CCA, CA, SAE, EN, IEC, DIN, JIS and MCA
- Quick display of battery specifications through battery barcode scan, auto and manual VIN entry
- Illustration instruction guides for battery positioning and testing
- Read and erase codes and view Live Data of all available systems
- Support maintenance services

AUTEL MaxiBAS BT608

The BT608 is a touchscreen Battery & Electrical System analyzer that applies Adaptive Conductance, an advanced battery analysis method that produces a more accurate examination of the battery's cold cranking ability and reserve capacity, vital to determining a battery's true health. The BT608 can display a quick health status of the existing battery, register a new battery and perform advanced battery and electrical system diagnostics. The BT608's VINscan function enables quick identification of the vehicle and battery specifications. Read/Clear codes on all available vehicles systems. Print or share customized reports via Wi-Fi or print test reports via the built-in thermal printer.

- Test 12-volt batteries: 100 - 3000 CCA
- Test 12-volt cranking/charging systems
- Test Flooded, AGM, AGM Spiral, EFB and GEL batteries
- Compatible with CCA, CA, SAE, EN, IEC, DIN, JIS and MCA
- Print test reports via built-in thermal printer
- Read and erase codes of all available systems

AUTEL® MaxiBAS BT508

The BT508 is powerful and lightweight battery and electrical system tester that uses Adaptive Conductance, an advanced battery analysis method, to produce a more accurate examination of the battery's cold cranking ability and reserve capacity, vital to determining a battery's true health. Download the free and easy-to-use mobile app, available for iOS and Android devices for use with the BT508 to perform testing and display test results. The BT508 package includes a wireless Bluetooth vehicle communication interface enabling battery and electrical component registration.

- Supports in-vehicle and out-of-vehicle testing of passenger vehicle batteries
- Test 12-volt batteries: 100 - 2000 CCA
- Test 12-volt cranking/charging systems
- Test Flooded, AGM, AGM Spiral, EFB and GEL batteries
- Compatible with CCA, CA, SAE, EN, IEC, DIN, JIS and MCA
- One-touch battery registration
- Illustration instruction guides for battery positioning and testing
- Read and erase codes of all available systems

100 Amp Variable Voltage Programming Power Supply

Whether you are reprogramming on board or off board, you must be sure that the power supplied to the module does not drop below proper voltage. Some reprogramming operations with the key-on will turn on cooling fans, fuel pumps, and other components that will cause the battery to drain faster than normal. During reprogramming there is a risk of having the operation fail if voltage falls below the proper operating range. Sometimes a failed operation can be recovered, but there is a chance that failed reprogramming could ruin the control module. To mitigate this risk, and to avoid pulling fuses that prevent battery drainage, put a high quality AE Tools & Computers Variable Voltage Programming Power Supply on the vehicle during reprogramming. This Power Supply features adjustable voltage, and an LCD display that shows it's current settings. 100 Amp, variable voltage unit.

PDT Heartbeat 1001

The first ever of its kind, The Original Parasitic Drain Tester is an automotive diagnostic tool for 12 volt battery systems commonly used on automobiles, trucks, recreational vehicles, boats, airplanes, etc.

Automotive technicians will instantly elevate their skill level to new heights with the PDT. Simple to use and reliable, it is like having an electrical expert by your side when you are working on older as well as the ever more challenging electrical systems in todays vehicles.

The majority of warrantied batteries are in fact under charged and not defective! The PDT can identify a problem with the vehicle that is causing premature failures, resulting in incorrect diagnosing and costing battery companies millions per year in unnecessary battery replacements and warranties.

As a shop owner, since the device does most of the work for you, it can be a profit booster. It's like having another technician on your staff- you can have the PDT perform a test for a fee and achieve conclusive results. Average costs for parasitic drain testing on vehicles are between 1-3 hrs of labor, plus additional repair costs if the PDT determines that some are needed. In most cases this device will easily pay for itself within the first 5-10 jobs.

The PDT will curtail warranties and limit unnecessary replacement of good components like batteries, alternators and starters. Because if a PDT test is run, and a "Test Complete - Failed" is achieved, a parasitic drain or virus has been identified and the replacement of batteries, alternators or starters will not repair the vehicle.

The PDT Heartbeat 1001 is patented (U.S. Pat. No. 10,041,988) and is housed in a high quality case. It is durable, waterproof (IP65 rated) and is rated to handle temperature changes. It is easy to hold and use whether right or left handed and the handle allows for easy mobility while the padded feet let it sit on any surface. There is an option to mount the case and the battery compartment is easily accessed from the back for replacement as necessary. Housed in the PDT Heartbeat 1001 is the latest in technology featuring "Eve", an award-winning Embedded Video Engine which allows for a resistive type touch screen that is interactive with display by touch.

It's impressive display will keep you informed as to where the testing is; yellow means testing, green means passed and red means failed. The test will actually beat in cadence with how the test is performing; i.e. if it is beating at a faster rate, the test is still running; if it has slowed down it is signaling the test is coming to an end.

Conclusive results. No guessing. The test is passive which means you can be doing something else while checking for a drain at the same time. The Battery Interface System is a proprietary system which is sold with the PDT heartbeat 1001 or can be purchased separately. It's innovative concept allows the user to fully test the entire vehicle. You can even run the car and never break the contact with the current so testing goes uninterrupted.

eSCOPE Elite 8

•DTC Stop Scope feature allows the Automotive Test Solutions eSCAN ELITE (purchased separately) to stop the eSCOPE ELITE Deep Record when a pending, or permanent DTC is set. This ensures a data capture at that moment.

•Capture All Data: ATS' unique circular buffer system does not drop data. No data gap will ever be present on our scopes; this means you will never lose data that occurs between samples on an intermittent fault or fail to capture the vehicle's faulty event.

•Ultra Sharp Wave-forms: 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. This also allows separate triggers and/or trigger modes on each time base. It's like having two scopes in one.

•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!

•No Time, Voltage, or Trigger Setup Needed: With the powerful Deep Record function, you can grab a large amount of data without any setup at all. Then simply zoom in to see what happened! Turn signals on/off, and rearrange waveforms as you wish. Saved files can be reopened and manipulated in the same way at any time.

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

•Pressure Transducers: Drives four pressure transducers at once with full pressure/vacuum conversions.

•Patented Overlay Technology: ATS' unique programming overlays an engine cycle grid over your waveforms. Works great with pressure transducers!

ELECTRONICS '101'

WITH BERNIE THOMPSON

High quality, real world training is an investment worth every penny. We offer a 3 day, hands-on class that teaches your techs how to use the advanced features of this scope to truly understand and diagnose vehicle systems. In this class we teach electrical systems from an engineers perspective, how to think about and understand these sytems, and then how to use the advanced capabilities of this scope to diagnose and repair them.

Number of Channels:	8 traces.
Traces:	Separate colors for each channel that match leads.
A/D Vertical Converter Resolution:	16 bit (65,536 discrete levels). This gives very fine voltage resolution over a very large voltage range. I.E. +/-20 volt range has a 0.0006 mV resolution.
Maximum Scope Throughput:	1 Mega samples per second.
Voltage Attenuator:	Up to +/-500V software selectable attenuator built into scope.
Display Modes:	Dual Screen, Single Screen, Stacked Scope, Measure and Deep record, and Meter.
Deep Record Mode:	Allows data to be recorded without any setup at all and without missing any data. Then use features such as zoom in, zoom out, zoom window, zoom reset and cursors. Apply filtering, turn signals on/off, and rearrange waveforms as you wish. Saved files can be reopened and manipulated in the same way at any time.
Pressure Transducer:	Drives four pressure transducers at once with full Pressure/Vacuum conversions. Additionally the eSCOPE ELITE8 comes with patented pressure transducer overlays.
Ignition analyzer:	Includes full ignition analyzer software.
PC Compatible	Runs on most Intel or AMD Processor Windows based PC. Will NOT run on the Microsoft Surface Pro X ARM64-based PC with the Microsoft SQ1 processor.
Power Requirements:	Powered via PC's USB connector.
USB connection to PC:	USB 2.0 or USB 3.0.
Scope Storage:	Unlimited Storage of waveforms and settings.
Support:	You have tech support!

eSCOPE Elite 4

Includes the same great features as the
8 Channel eScope, but in a 4 channel version.

Includes Revolutionary CKP misfire software.

Number of Channels:	4 traces.
Traces:	Separate colors for each channel that match leads.
A/D Vertical Converter Resolution:	16 bit (65,536 discrete levels). This gives very fine voltage resolution over a very large voltage range. I.E. +/-20 volt range has a 0.0006 mV resolution.
Maximum Scope Throughput:	1 Mega samples per second.
Voltage Attenuator:	Up to +/-500V software selectable attenuator built into scope.
Display Modes:	Dual Screen, Single Screen, Stacked Scope, Measure and Deep record, and Meter.
Deep Record Mode:	Allows data to be recorded without any setup at all and without missing any data. Then use features such as zoom in, zoom out, zoom window, zoom reset and cursors. Apply filtering, turn signals on/off, and rearrange waveforms as you wish. Saved files can be reopened and manipulated in the same way at any time.
Pressure Transducer:	Drives four pressure transducers at once with full Pressure/Vacuum conversions. Additionally the eSCOPE ELITE4 comes with patented pressure transducer overlays.
Ignition analyzer:	Includes full ignition analyzer software.
PC Compatible	Runs on most Intel or AMD Processor Windows based PC. Will NOT run on the Microsoft Surface Pro X ARM64-based PC with the Microsoft SQ1 processor.
Power Requirements:	Powered via PC's USB connector.
USB connection to PC:	USB 2.0 or USB 3.0.
Scope Storage:	Unlimited Storage of waveforms and settings.
Support:	You have tech support!

CKP Misfire Software included with eSCOPE ELITE
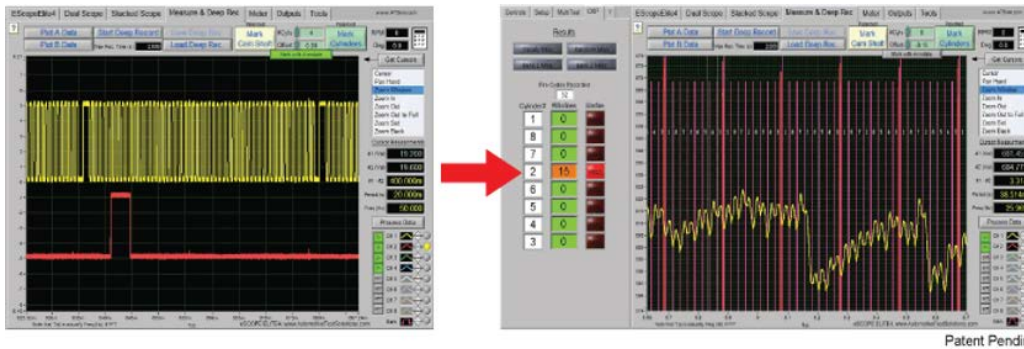
Patent Pending

Converts CKP signal into an advanced misfire analyzer!

The CKP Misfire Software can locate misfiring cylinders from the signal produced from the crankshaft position sensor. In order for this software to operate there will need to be an ignition event on channel two and the CKP signal on channel one, as shown below. The Ignition event will be produced from an ignition coil on a gasoline-based engine, and a fuel injector event on a diesel base engine.

The strokes of the engine directly affect the crankshaft rotational speed. As the piston moves toward the cylinder head compressing the air volume contained within it, the crankshaft speed slows down. Then as the ignition event starts the combustion of the fuel stock, the crankshaft speed increases. By monitoring the crankshaft rotational velocity (speed) the combustion process of the fuel stock can be determined and a cylinder misfire detected.
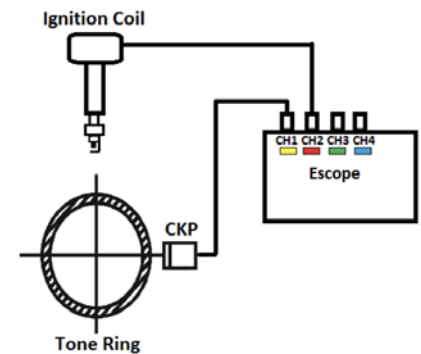
Once you have connected to the CKP and ignition event you are ready to run an automated test. To run the test, you will need to pick the cylinder that you are connected to and the correct firing order of the engine you are working on. Now press the "Start Test" button. The software will start to save the last 5 seconds of data. When you feel the engine misfire, or you want to check the crank velosicity changes, push the "Stop Testing" button. The data will stop being recorded, and will now process the CKP signal automatically. The misfiring cylinder(s) will be displayed on the left side of the screen as shown below. Additionally you can analyze the data displayed on the graph. When the waveform has a large drop this is an indication of incomplete combustion.   Note: This test has an RPM limit of 2500.
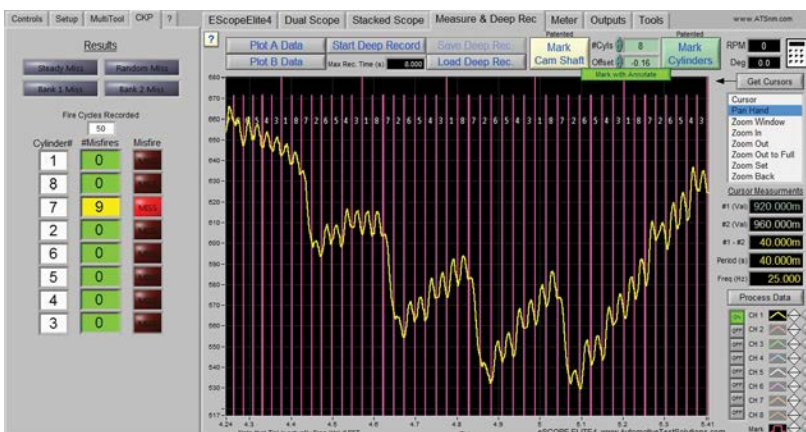
iVA Intelligent Vibration Analyzer

The iVA uses Quad Vibration Technology™ (QVT). This technology locates and identifies the vibration then rates the vibration severity with advanced color coding. The iVA locates multiple vehicle vibrations simultaneously. The iVA displays a vehicle topology map that highlights the severity of vibrations with yellow, orange, and red. There is no need to analyze graphs or charts, but these are easily accessible at any time.

The iVA simplifies setup! Eliminates the need for separate hardware such as an oscilloscope and J2534 device. All you need to start testing is your Windows PC. To start; enter the Tire Size, Ring and Pinion Ratio and Vehicle Drive Type (Front Wheel Drive, Rear Wheel Drive, All wheel drive, and Four Wheel Drive). If the Ring and Pinion is unknown the iVA will automatically calculate the Ring and Pinion Gear Ratio. Simply attach the magnetic sensors to the suspension components. Setup takes less than 5 minutes in most cases!

System Requirements:
- Runs on most Intel or AMD Processor Windows based PC with type A USB 2.0 port.
- Will NOT run on the Microsoft Surface Pro X ARM64-based PC with the Microsoft SQ1 processor.
- Windows 7 Service Pack 1 through Windows 11 operating systems including Windows 11 tablets

  (Windows RT tablets are not supported)
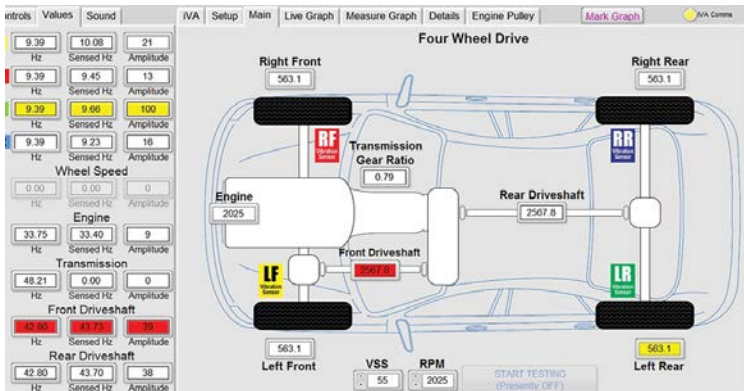
The Intelligent Vibration Analyzer Module™ (iVA Module) houses an advanced electronic system that contains a Data Acquisition Device (DAQ) for sampling the signals from the Smart Vibration Sensors and iVA Microphones. The iVA Module also contains a Vehicle Communications Interface (VCI) that communicates with vehicle Engine Control Modules from 1996 to present. Communication Bus Types Supported; J1850 VPW, J1850 MPW, J1850 PWM with IFR, ISO 9141-2, KPW2000, KPW2000 Slow init, and CAN.

The Smart Vibration Sensor™ (SVS) uses multiple 3-axis accelerometers (X, Y and Z) to locate vibrating components. These are smart sensors in that they allow all three channels from the accelerometer to be monitored at all times. This is accomplished by summing the X, Y and Z channels being monitored within the vibration sensor itself. That way the total amplitude produced from the X, Y or Z channels is analyzed. This will enable the DAQ to read the total amplitude from all three accelerometer axis produced from the sensor providing vibration in all directions. When four vibration sensors are used the iVA DAQ can monitor 12 accelerometer (X, Y and Z) axis continuously.

The iVA Microphone is an amplified 20-20KHz electric microphone that picks up sounds waves from the surrounding air. The iVA Microphone Modes then process these sound waves using a Fast Fourier Frequency (FFT), which is the default reading, a Frequency Plot (FP), or can be played with a WAV audio file that is either live or recorded. The iVA Microphone quickly attaches with a built-in neodymium rare earth magnet.

The iVA Microphone Clamp is an amplified 20-20KHz electric microphone that picks up sounds waves from the metal components. The iVA Microphone Modes then process these sound waves using a Fast Fourier Frequency (FFT), which is the default reading, a Frequency Plot (FP), or can be played with a WAV audio file that is either live or recorded. The iVA Microphone Clamp quickly attaches with a spring clamp.

4 - iVA Stereo Jack Cables   iVA DLC Cable   4 - iVA C-Clamps   iVA USB Cable

iVA Stereo Earphones   iVA USB Program Card   iVA Tape Measure   iVA Pressure Sensitive Tape

Comes with everything you need for use on your Windows based PC!

eScan Elite

All scan tools display DTCs and allow you to view PID Data. Most tools just suck out data and spit it raw, onto the scanner screen. They ignore valuable clues that help fix cars. That's because they don't have eSCAN ELITE Sharpshooter™ diagnostic tool box, an entire set of built-in assistants that search and interpret data. eSCAN ELITE is like a diagnostic compass that points you in the right diagnostic direction. For your convenience, eSCAN ELITE is available with corded or wireless Bluetooth interface that avoids needless cables and shop clutter. Order your eSCAN ELITE and start fixing cars faster—today!

The ESCAN ELITE is a very different type of data retrieval system. It allows the technician access to the onboard vehicle data and turn this data into useful information to understand where problems lie within an engine control system. Technicians of all levels can harness the power of the ESCAN ELITE. The ESCAN ELITE color codes the data for easy recognition of a problem with; "green" being good, "yellow" being marginal, "orange and red" being bad. It really is that easy. The technician can also activate a voice mode and the ESCAN ELITE will talk to the technician alerting them of problems within the engine control system as they happen. The ESCAN ELITE is a next-level diagnostic tool helping the technician understand what is happening with the vehicle.

ESCAN ELITE displays Total Fuel Trim (TFT) with the vertical axis being load and the horizontal axis being engine RPM. It is quite easy to see that the problem gets worse as the load increases; this can be seen by the green at the bottom light load condition moving to red as the load increases.

In order to identify the cause of the problem a Volumetric Efficiency (VE) test will be run on the amount of air being read by the Mass Air Flow (MAF) sensor. The yellow trace is produced from the MAF sensor and the red trace shows what the engine air pumping capability should be. It's easy to see the air reading is low compared to the MAF sensor reading. This indicates the MAF sensor is misreading the air volume entering the engine.

eScan Elite with Tablet

eScan Elite
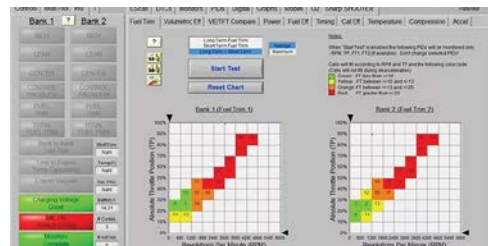
eSCAN ELITE Analyzes Total Fuel Trim

eSCAN ELITE Volumetric Efficiency Test

iGA5 Elite

The ATS iGA5 ELITE - Intelligent Gas Analyzer is an advanced super accurate emission gas analyzer that spots common problems--right now: with update rates from probe to screen display as fast as 5 seconds! Locate fuel control problems, misfires, leaking head gaskets, no starts, hard starts, and EVAP system leaks.

The unique two infrared cell configuration allows for reading from several ppm of hydrocarbons to 40,000 ppm of hydrocarbons very accurately.

iGA5 ELITE is a premium gas analyzer, made of the finest materials, designed to provide many years of trouble-free service. It comes packaged as a ready-to-run test solution, with all necessary cables, probes, connectors, hoses, and its own lithium batteries and charger.
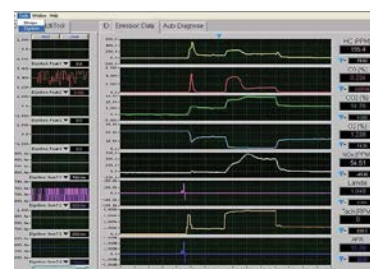
All Data Tab with iGA5 Data Displayed

- iGA5 ELITE is a premium gas analyzer, made of the finest materials, designed to provide many years of trouble-free service. It comes packaged as a ready-to-run test solution, with all necessary cables, probes, connectors, hoses, and its own power supply.

- Run the iGA5 ELITE alone or use ATS Multitool software to link it to both eSCAN ELITE and eSCOPE ELITE. Connect all three together using our optional wireless interface, and create a diagnostic suite that can't be beat.

- Review iGA5 ELITE readings as numeric data, or graph them in bold, colorful displays that make it easy to spot trends and imbalances.

- Increase diagnostic power by 50% with ATS' innovative iGA5 ELITE software. Save data as text or image, branded with your shop name; annotated for future reference.

- Service items such as hoses and new filters are in stock, and easy to acquire!

- iGA5 ELITE measurements of HC, CO, CO2, O2 and NOx Meets or exceeds OIML Class 1 Gas Standards Measures concentration in parts per million or percentages and supports measuring grams per mile / kilometer Certified to BAR-90 (United States Bureau of Automotive Repair). Meets the performance specifications of BAR-97.

iGA5 Elite comes with 2 removable chargeable lithium batteries.

iGA5 Elite ctablet can be quickly removed and held remotely to view emission gas date.

eSCAN Elite storage. eSCAN can be linked with the IGA5 Elite.

BULLSEYE Leak Detector with IR
(Standard Kit)

Includes all the essentials for finding leaks in EVAP, engine cooling systems, head gaskets, tires, wheels and much more...

FINDS LEAKS in all sealed systems in just 3 easy steps:
1. The BULLSEYE CO2 regulator pressurizes the sealed system.
2. The BULLSEYE Leak Detector finds the area of the leak.
3. The BULLSEYE Leak Seeker Foam changes color to pinpoint the leak.

• The only system that quickly and precisely locates leaks of all sizes, large to very small!
• Finds the leak in the vehicle and then indicates the size of the leak.
• Finds leaks in EVAP, engine cooling systems, head gaskets, tires and wheels and much more...
• Approved as GM Dealer Equipment

Note: the BULLSEYE Leak detector with IR standard kit does not include the BULLSEYE A/C CO2 Charge Hose Kits LDT1350 & LDT1355 (used for AC leak detection) or the BULLSEYE Air Ride Suspension Test Kit LDT1370 (for Voss systems). These items may be ordered separately.

BULLSEYE Leak Detector with IR
(Pro Kit)

Includes all the essentials for finding leaks in A/C systems, EVAP systems, engine cooling systems, head gaskets, tires and wheels, air ride suspensions, air brakes, and much more... plus it includes the time saving Smart Control and our AC Charge Hose Kits. The only system that directly controls ALL vent and purge valve solenoids at the push of a button.

Note: The BULLSEYE IR pro kit does not include the BULLSEYE Air Ride Suspension Test Kit LDT1370 (for Voss systems). This item may be ordered in separately.

"This product is just amazing!, we have nitrogen and smoke leak detectors that just could not find an A/C leak on a problem Subaru. The Bullseye located the leak immediately and not where we all thought it would be. Honestly we all joked about the leak detector foam and thought it was a gimmick, but it pin pointed such a small leak it changed our minds. Great product, the best on the market, period! We also found an EVAP leak that we never would have found with anyone else's product"

Ross MacPherson
MacPherson Auto Centre

iEA Engine Analyzer

A comprehensive pressure transducer kit with software
for misfire detection.

Camshaft timing off by one tooth? That's a very difficult challenge
that will take hours of your time to prove. What if we told you that
you could tell if the camshaft timing is off by as little as one tooth,
in as little as five minutes. You would think we were CRAZY....
Well we aren't! Our iEA - Intelligent Engine Analyzer uses
advanced technology to check the pressure changes in the
cylinders THROUGH THE SPARK PLUG HOLE! INCREDIBLE?
We think so. Got a random misfire code, miss-identified misfire
code, or no code at all, and the vehicle is misfiring? Another
very difficult challenge that will take hours of your time to figure
out. Our iEA shows you which cylinder or cylinders are missing
through the exhaust tailpipe and then checks the mechanical
condition of the cylinder through the spark plug hole in just minutes!
ATS' revolutionary iEA software automatically identifies
problems and alerts the technician; saving hours of diagnostic
time. View large, colorful, razor sharp waveforms on your hi-res
PC display.

- Quickly identifies camshaft timing problems through the spark plug hole.
- Quickly identifies misfiring cylinders from the exhaust tail pipe.
- Finds problem cylinders and identifies them quickly.
- Misfire counters provide information on which cylinders misfired and counts
  how many times the misfire occurred.
- Will alert you to a bank misfire, random misfire, or individual misfire.
- Checks cranking, intake and exhaust pressure pulsation confirming mechanical condition of engine quickly.
- Checks restricted exhaust system.
- Checks ignition timing.
- Chosen one of the TOP 20 TOOLS of 2008 by Motor Magazine and one of the TOP 10 TOOLS of 2008 by Undercar Digest!
- Converts pressure transducer voltage to actual pressure or vacuum readings
- Powers up and reads up to four Pressure Transducers at one time.
- Can be used in conjunction with all ATS diagnostic equipment.
- Includes free software updates!
- Includes technical support!

System Requirements:
- Runs on most Intel or AMD Processor Windows based PC with type A USB 2.0 port.
- Will NOT run on the Microsoft Surface Pro X ARM64-based PC with the Microsoft SQ1 processor.
- Windows 7 Service Pack 1 through Windows 11 operating systems including Windows 11 tablets
  (Windows RT tablets are not supported)

Pressure Transducer Kit

A Pressure Transducer kit for use with Pico, Snap-On and Autel oscilloscopes. The Pressure Pro allows three pressure transducers to be powered, grounded, and supplies output signals simultaneously. The Pressure Pro allows all three sensors to be independently zeroed. This unit will allow the user to use and display three different pressure transducers on the oscilloscope at once, thus helping with the mechanical testing of engines. When testing the internal combustion engine you will need to monitor in-cylinder pressure (300 PSI Gasoline, or 500 PSI Diesel), induction pressure (-30 Hg), and exhaust pressure (+/- 25 H20) simultaneously.

Note: When using the Pressure Pro with your voltage measuring instrument 1 Pressure Transducer Cable (PTR1080) and 1 Pressure Pro to scope BNC Cable (PTR1100) is necessary for each Pressure Transducer being used.

Kit Includes:
Pressure Pro, 300 PSI Transducer, -30 HG Vacuum Transducer, EMissFire Exhaust Sensor (-20 H2O), 2 Pressure Transducer Cables, Phono Jack to Phono Jack Cable,   3 Pressure Pro to Scope BNC Cables, 3 BNC to Banana Plug Cables, 14mm Stainless Steel Compression Tester Adapter, 18mm Stainless Steel Compression Tester Adapter, Exhaust Tailpipe Hose,   Quick Connect Coupler - Small, 1/4" Hose Adapter,   3/8" Hose Adapter, Custom Carry Case.

The ATS absolute 300 PSI pressure sensor reads positive pressure to 300 PSI while allowing negative pressure down to 14.69 Psi (-29.92Hg) to be read.

Add ons:

The absolute **iEA Exhaust Sensor** reads positive pressure to +25 inches H20, while allowing a negative pressure down to -25 inches H20.

The Patented **iEA Tailpipe Amplifier** allows accurate measurement of exhaust volume changes to be made. This device will allow multiple cylinder misfires to be analyzed quickly, while maintaining accuracy. The iEA Tailpipe Amplifier can be used with many different types of sensing technologies such as; ATS Exhaust Sensor read in inches of water, First Look pulse sensor, and Nicolson pulse sensor.

CanDo OBD Aid Breakout Box

This tool allows you to safely check the OBDII DLC port to diagnose exactly what is causing communication errors. It is a fast and easy way to properly check your DLC port prior to scan tool communication or ECU flashing.

Features and Benefits:

- Conduct a safety check on OBD II DLC port prior to connecting your scan tool or flashing an ECU.
- Warning beep will alert you when the voltage falls below 12V or when it rises above 15.2 V while programming or coding.
- Provides a quick check on the alternator charging conditions by voltage monitoring.
- Make voltage/frequency measurement at the pins during diagnosis communication with ECU when the engine will not start.
- Detection of protocol and data communication during diagnosis and re-flash on the ECU.
- Works with 12V/24V systems.
- Bench flashing of ECU's.
- Allows remote Key FOB programming via pin jumping.
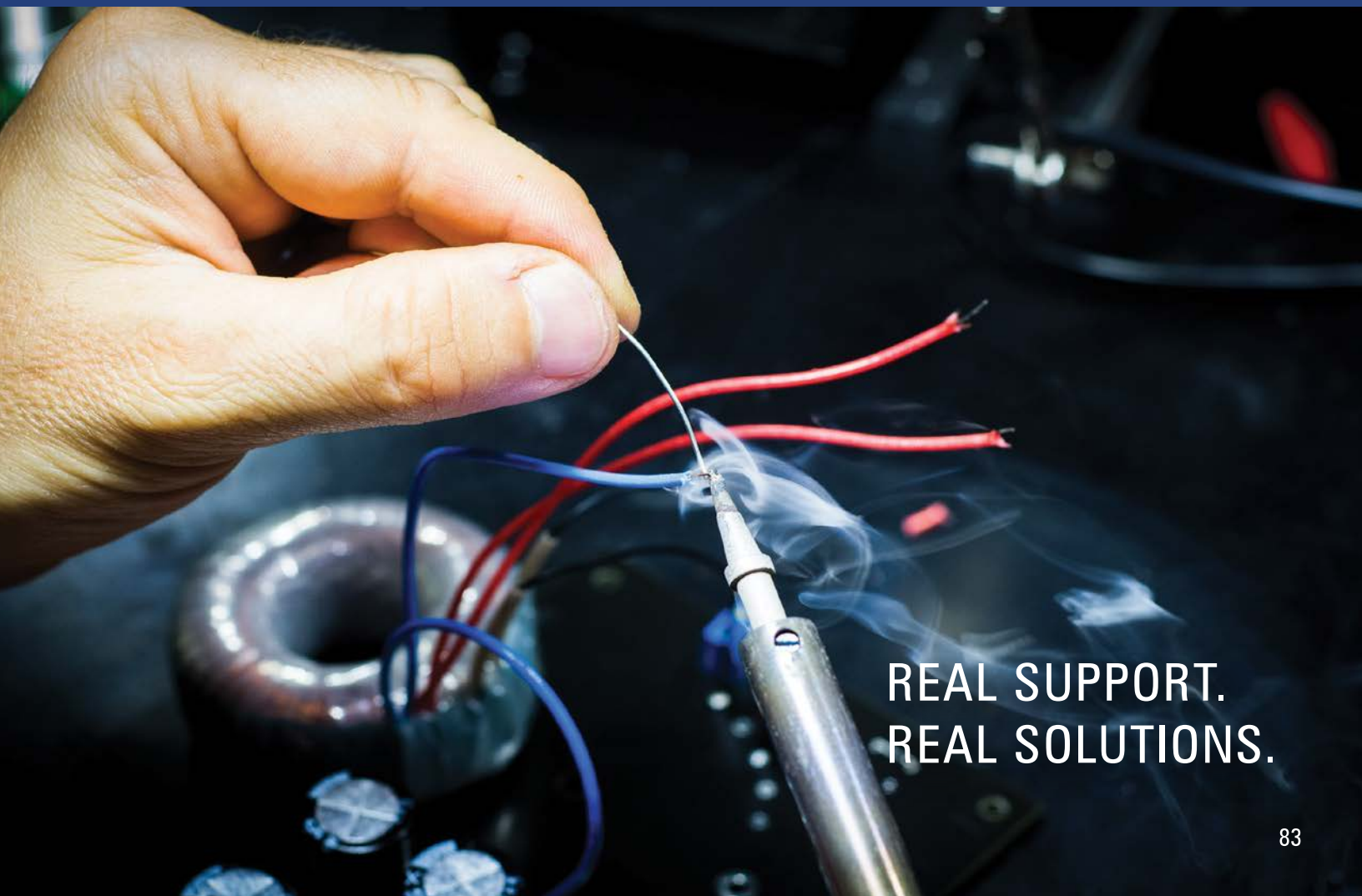
**REAL SUPPORT.
REAL SOLUTIONS.**

MaxiCharger **AUTEL**

Increase your shops profits with an electric vehicle charging station!

- World First Triple Protection Technology - Safe Charging
- Intelligent Battery Diagnostic Technology - Longer Battery Life
- Easy to install, easy to maintain
- Compatible with every electric vehicle
- Connect to MaxiCharge Mobile App
- Remote firmware update and troubleshooting
- Worry-free service

IP65 Protection, Fits for Extreme Weather
- Anti-salt spray, anti-dust and anti-condensation.
- Excellent design of the cooling system that makes the temperature at full load operation lower than the industry average by 10°C and the life of the whole set longer for over 8 years
- Operating temperature range at -40°C to +55°C

AUTEL® MAXICHARGER COMMERCIAL

MODEL & PART NUMBER	POWER OUTPUT	POWER SUPPLY	SCREEN	
MAXICHARGER C50 AC Wallbox EV Charger **PART NO.** MCC50AHI	ADJUSTABLE UP TO **50 AMPS** & **45 MILES** OF RANGE PER HOUR	HARDWIRED	INTERACTIVE 5-INCH LCD TOUCH SCREEN	UP TO **9X FASTER CHARGE**

REVENUE GENERATION
Smart Software that Allows Flexibility for Station Operators to Collect Fees from EV Drivers.

CONNECTIVITY
Autel MaxiCharger C50 Allows for Wi-Fi, Bluetooth, Ethernet or 4G Cellular Connection, Giving You the Flexibility to Connect the Way that Works Best for You.

CHARGING STATUS INDICATOR LIGHTS
LED Lights on Face of Charger Clearly Indicate the Status of Your Charger.

POWER　　INTERNET　　CHARGING　　BLUETOOTH

WATER & DUST RESISTANCE
Industry-Leading NEMA 4 / IP65 Protection Against Harsh Weather Conditions.

CABLE LENGTH
Industry Leading with a Generous 25' Cord to Maximize Reach.

*MaxiCHARGER Commercial Electric Vehicle AC Charger is a Level 2 Charger - Need 208-240 Volt
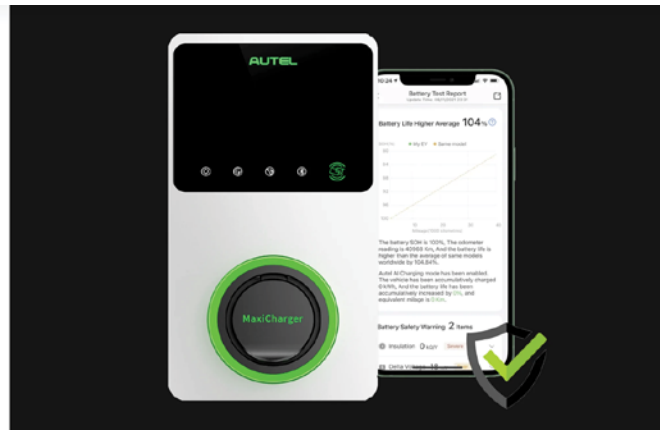
SOFTWARE

Charging Management Software

With our one-stop SaaS solution, you can manage your charging network easily, intelligently and insightfully.

- Optimize your EV charge routine
- Receive notifications when charging is completed.
- Control your smart home charging
- Track your EV battery health while charging

APP

Support Every Step of Usage

Autel Maxicharger App is a unique EV charging platform, providing you the ability to manage and control multiple chargers.

- Start and end charge process remotely
- Set Price: charging price settings
- Notifications, Charge History, etc.

More Convenient

Easy to Install, Easy to Maintain

- **Installation Guide video**
- Finish installation within 8 minutes without opening the back panel
- Modular design, easy to maintain
- Firmware update through our MaxiCharge software

Modular Design & Easy Installation

PROTECT YOUR PROFITS AND YOUR CUSTOMERS.

TPMS

TIRE PRESSURE MONITORING SYSTEM

From sensor programming and maintenance to tread depth readings, you need a TPMS tool that gets the job done. AE Tools & Computers Tech Support is here to make sure you can handle all the tread rolling through your shop.

AUTEL® MaxiSYS MS906TS

The MS906TS is an all-in-one industry first combining advanced diagnostics with complete TPMS functionality. Now technicians don't need a second TPMS tool to trigger, relearn, or program Autel MX-Sensors.

Quickly test all vehicle systems with one ultra-fast, lightweight, wireless, touch screen tablet with the same vehicle coverage and advanced diagnostics as the MS906.

Operating on the Android navigation system, the MS906TS provides amazingly fast sensor programming and diagnostic scan functions with its powerful running speed and 32 GB solid state hard drive.

The system also features the latest AutoVIN technology to identify vehicles in one touch as well as its exclusive AutoScan function. These features allow you to easily acquire vehicle information, scan all ECUs and run diagnostics on selected systems.

Optional Compatible Accessories

Featuring the best possible coverage of OE-level diagnostics and ECU coding capability, the MS906TS also supports add-ons like an oscilloscope and inspection camera to perform more extensive professional testing.

Operating System	Android™ 4.4.2, KitKat
Processor	Samsung Exynos T5260 hex-core Processor (1.3 GHz quad-core ARM Cortex-A7 + 1.7 GHz dual-core ARM Cortex-A15)
Memory	2GB RAM & 32GB ROM
Display	8.0" LED capacitive touchscreen with 1024 x 768P resolution
Connectivity	Wi-Fi (802.11 b/g/n), USB: 2.0, Mini USB 2.0, Wireless BT V2.1+EDR, Class1, HDMI 1.4a, SD Card (support up to 32GB)
Camera (rear)	Rear-facing, 8.0 Megapixel, AF with Flashlight
Sensors	Gravity Accelerometer, Ambient Light Sensor (ALS)
Audio Input/Output	Microphone, Single Speaker, 3-Band 3.5 mm stereo/standard headset jack
Power and Battery	10,000 mAh 3.7 V lithium-polymer battery, Charging via 12 V AC/DC power supply
Housing	Rugged housing and extra rubberized protection
Dimensions(W x H x D)	270.8 mm (10.0") x 176.0 mm (6.9") x 36.0 mm (1.4")
Weight	NW: 1.10 kg (2.42 lb.)
Warranty	1 year
Software Update	1 year free

AUTEL® MaxiTPMS TS608

The MaxiTPMS TS608 provides you with a superior experience in TPMS health check, sensor programming, TPMS relearn, all system diagnostics as well as special service functions.

Equipped with a 7" touch screen with 1024x600P resolution and a VCI mini for wireless communication with the test vehicle and powered by the quad-core Cortex-A9 processor for smooth operation.

Complete TPMS Functions
- Activate all known TPMS sensors and read sensor status
- Diagnose ECU for complete TPMS health check with DTC description
- Read DTCs from ECU and erase DTCs
- Toolkit, special TPMS functions
- On-tool relearn procedure and wide OBD relearn coverage
- Program MX-Sensors by copying original sensor IDs or creating new IDs randomly

All Systems Diagnostics
- Read/clear codes for all available electronic systems
- Turn off warning lights
- Display live data in text, graph & analog for easy data review
- Supports all 10 test modes of the latest J1979 OBD II test specs
- Enhanced OBDII Mode 6
- NEW! Support active test and complete special functions

Operating System	Android™ 4.4.2, KitKat
Processor	Cortex-A9 processor (1.6 GHz)
Memory	1GB RAM DDR3 & 64GB ROM
Display	7" LCD capacitive touchscreen with 1024x600 resolution
Connectivity	Mini USB 2.0; USB 2.0; Wi-Fi; HDMI Type A; Micro SD card slot (supports up to 32GB)
Sensors	Light sensor for brightness auto adjust
Power and Battery	3.7 V/5000 mAh lithium-polymer battery; Charges via 5 VDC power supply;
Tested Battery Life	Around 7 hours of continuous use
Dimensions (W x H x D)	270.8 mm (10.0") x 176.0 mm (6.9") x 36.0 mm (1.4")
Net Weight	885 g (2.31 lb.)
Protocols	ISO9141-2, ISO14230-2,ISO15765, K/L-Line, Flashing Code, SAE-J1850 VPW, SAE-J1850PWM, ISO11898 (Highspeed, Middlespeed, Lowspeed and Singlewire CAN, fault-tolerant CAN), SAE J2610, GM UART,UART Echo Byte Protocol,

COMPLETE SOLUTION
TPMS Tool & MX-Sensor
Industry Leading - 99% Coverage

AUTEL® MaxiTPMS ITS600

The MaxiTPMS ITS600 is a wireless, touchscreen Android-based tablet that offers complete TPMS diagnostics and service functions. The tablet features a 5.5-inch color display and Bluetooth vehicle communication interface (VCI). Compatible with U.S, Asian and European TPMS-equipped vehicles, the ITS600 features an enhanced TPMS status screen, VINscan for rapid vehicle identification, four MX-Sensor programming options, OBD II relearn functionality and onscreen relearn instructions for all vehicles. The ITS600 can activate, read and relearn all known sensors, perform TPMS system diagnostics and four common maintenance services. Additionally, it provides DOT number scan, tire expiration notice, and access to recall lookup. The ITS600 is compatible with TBE200/TBE100 Tire Tread & Brake Disc Wear Analysis tool, sold separately. By providing an extensive series of tire-related features and functions, ITS600 is your ideal choice to complete TPMS and tire health work.

V200 Bluetooth VCI Unit

ITS600

Type C Adapter/Charger

Use with Autel MX-Sensors

DIAGNOSTICS & SERVICE
- Oil Light Reset • Electronic Brake Service
- Battery Registration • Steering Angle Reset
- Included Service Function Updates are FREE for the Life of the Tool

TBE200 / TBE100 (Sold Separately)
TIRE TREAD & BRAKE DISC WEAR
- Precise Laser Measurement
- Comprehensive Test Report: TPMS Health, Tire Tread Depth & Brake Disc Wear Characteristics & Repair Tips

TIRE EXPIRATION NOTICE & RECALL LOOKUP
- Quick & Easy Tire DOT Number Scan
- Tire Expiration Notice
- Access to Recall Info with On-Board Software

AUTEL®

TOTAL TPMS SOLUTION
- Activates, reads and relearns all known sensors
- Enhanced, at-a-glance diagnostics status screen
- Fast OBD II relearn for most vehicles
- Program MX-Sensors to replace 99% of OE sensors
- Copy By OBD sensor programming for faster service
- Four MX-Sensor program modes; batch program up to 20 MX-Sensors
- Includes wireless Bluetooth vehicle communication interface (VCI)
- Tire pressure placard value reset
- Read/Clear TPMS system codes & view live data
- Free Wi-Fi software updates for the life of the tool

QUICK VEHICLE ID TECHNOLOGY
- Rapid VIN acquisition via optical VINScan
- QR Code Scan / Barcode Scan, Plate scan, Auto VIN detect and manual input
- Identify MMY and sensor OE part number via VIN decoding

DIAGNOSTICS & SERVICE
- Oil light reset
- Electronic brake service
- Battery registration
- Steering angle reset
- Included service function updates are free for the life of the tool
- All systems diagnostics and maintenance services software available with Pro Upgrade purchase

EXPANDED TIRE SERVICE
- Quick & Easy Tire DOT Number Scan
- Tire Expiration Notice
- Tire Recall Lookup
- Tread Depth & Brake Disc Wear
- Precise laser measurement of tread depth & brake disc wear with purchase of Autel TBE100/TBE200
- Comprehensive Test Report: TPMS health, Tread depth & brake disc wear characteristics & Repair tips

Operating System	Android™ 7.0
Processor	Quad-core processor (1.5 GHz)
Memory	2GB RAM DDR4 & 64GB ROM
Display	5.5" LCD capacitive touchscreen with 1280x720 resolution
Connectivity	• Wi-Fi • USB 2.0, Type C • Bluetooth
Power and Battery	• 3.8 V/5000 mAh lithium-polymer battery • Charges via 5 V AC/DC power supply
Battery Charging Input	5 V/2 A
Dimensions (W x H x D)	183.0 mm (7.2") x 89.0 mm (3.5") x 22.0 mm (0.87")
Net Weight	368 g (0.8 lb.)
Protocols	ISO9141-2, ISO14230-2,ISO15765, K/L-Line, Flashing Code, SAE-J1850 VPW,
	SAE-J1850PWM, ISO11898 (Highspeed, Middlespeed, Lowspeed and Singlewire CAN,
	fault-tolerant CAN, SAE J2610, GM UART,UART Echo Byte Protocol,
	Honda Diag-H Protocol, TP2.0, TP1.66

AUTEL® MaxiTPMS TBE200

The MaxiTPMS TBE200 is a laser-enabled tire tread depth and brake disc wear examiner that provides users with quick and accurate wear measurements. Measure brake disc wear without having to remove tires. It features a 1.65" AMOLED super retina touchscreen, displaying measurement data curves in real-time. TBE200 provides uneven wear analysis and detailed replacement and maintenance suggestions for quick tire service. The TBE200 dual cameras enable users to document tire wear and damage and scan Tire Identification Number (TIN). Use the tool separately, or with ITS600 to view and print detailed TPMS reports.

LASER MEASUREMENT
- Tire tread depth and brake disc wear check in one tool, no need to remove the wheel during measurement
- Laser measurement with 0.1mm accuracy
- Full tread measurement
- Quick Check both tread depth and brake disc

REAL-TIME TIRE HEALTH ANALYSIS
- Real-time measurement data on touchscreen
- Measurement data curve display
- Uneven wear analysis
- Test detail for single tire tread / brake disc
- Detailed replacement and maintenance suggestions (tire/brake disc replacement, tire rotation/alignment servicing)
- Scan DOT, tire expiration notice, tire recall lookup
- Take photos of tire wear and damage

COMPREHENSIVE TEST REPORT
- Comprehensive Test Report: TPMS health, Tire tread depth and brake disc wear characteristics and Repair tips (Requires ITS600)

EASY TO USE QR CODE REPORT DOWNLOAD AND SHARING
- Generate QR codes for tire tread depth and brake disc measurements to allow for easy report sharing and download via mobile phones or tablets.
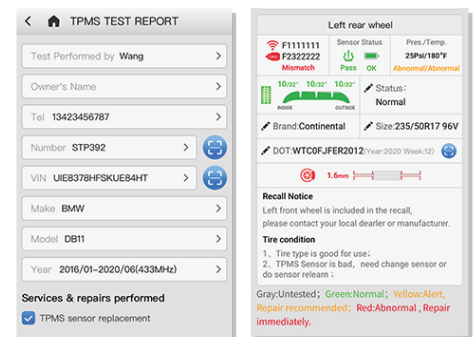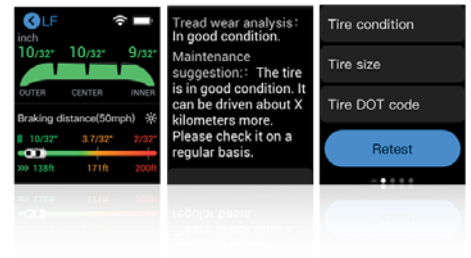
Processor	4x ARM Cortex-A35 (1.5 GHz)
Memory	1GB RAM LPDDR3 & 4GB ROM
Display	1.65" AMOLED capacitive touchscreen with 348×442 resolution
Connectivity	Wi-Fi / USB 2.0, Type C
Camera	CMOS WXGA, 1 megapixel & 8 megapixel, 30fps
Power and Battery	3.7 V/3000 mAh 18650 lithium-ion battery • Charges via 5 V AC/DC power supply
Dimensions (W x H x D)	283.0 mm (11.14") x 39.0 mm (1.54") x 33.5 mm (1.32")
Net Weight	188 g (0.41 lb.)

AUTEL® MaxiTPMS TBE100

The MaxiTPMS TBE100 is a laser-enabled tire tread depth and brake disc wear examiner that provides users with quick and accurate wear measurements. Measure brake disc wear without having to remove tires. It features a 1.65" AMOLED touchscreen, displaying measurement data in real-time. TBE100 can work with MaxiTPMS ITS600 tablets to access detailed replacement & maintenance suggestions for quick tire service, document tire wear and damage. Use the tool separately, or with ITS600 to view and print detailed reports.

LASER MEASUREMENT
- Tire tread depth and brake disc wear check in one tool, no need to remove the wheel during measurement
- Laser measurement with 0.1mm accuracy
- Single Tread and Full tread measurement
- Quick Check both tread depth and brake disc

REAL-TIME TIRE HEALTH ANALYSIS
- Real-time measurement data on touchscreen
- Measurement data curve display
- Uneven wear analysis
- Test detail for single tire tread / brake disc
- Detailed replacement and maintenance suggestions (tire/brake disc replacement, tire rotation/alignment servicing)

COMPREHENSIVE TEST REPORT
- Comprehensive Test Report: TPMS health, Tire tread depth and brake disc wear characteristics and Repair tips (Requires ITS600)

EASY TO USE QR CODE REPORT DOWNLOAD AND SHARING
- Generate QR codes for tire tread depth and brake disc measurements to allow for easy report sharing and download via mobile phones or tablets.

Processor	4x ARM Cortex-A35 (1.5 GHz)
Memory	1GB RAM LPDDR3 & 4GB ROM
Display	1.65" AMOLED capacitive touchscreen with 348×442 resolution
Connectivity	Wi-Fi / USB 2.0, Type C
Camera	1 megapixel
Power and Battery	3.7 V/3000 mAh 18650 lithium-ion battery • Charges via 5 V AC/DC power supply
Dimensions (W x H x D)	283.0 mm (11.14") x 39.0 mm (1.54") x 33.5 mm (1.32")
Net Weight	186 g (0.41 lb.)

AUTEL® MaxiTPMS TS508WF

The MaxiTPMS TS508WF is a new generation TPMS diagnostic and service tool specially designed to activate all known TPMS sensors, read TPMS sensor status, check TPMS system health condition, program MX-sensors and conduct TPMS relearn. With Quick Mode and Advanced Mode options, you can save time and energy by choosing the most suitable way to complete TPMS work. The Update by Wi-Fi function makes the update experience more convenient.

Wi-Fi UPDATE
The TS508WF provides two methods for updating: Update by Wi-Fi and Update by USB. The two methods bring customers faster and more convenient updating experience. From now on, you only need to be connected via Wi-Fi.

TWO TPMS SERVICE MODES
The TS508WF is a new generation complete TPMS tool that offers the option to choose one of two service modes from the home screen, to provide faster and smarter TPMS repairs. Based on the TPMS service type needed, the option to choose the basic Quick Mode or the complete Advanced Mode will decrease repair time.

QUICK MODE / ADVANCED MODE COMPARISON
TPMS Quick Mode: basic TPMS functions to check TPMS sensors and program MX-Sensors quickly
TPMS Advanced Mode: complete TPMS functions to perform sensor check, TPMS diagnose, MX-Sensor program and sensor position relearn.

FOUR MX-SENSOR PROGRAMMING OPTIONS
1.Copy By Activation, 2.Copy By Manual Input, 3.Auto Create 1-16, 4.Copy By OBD

Display	TFT color display (320 x 240 dpi)
Power	3.7 V Li-polymer battery; 3200 mAh
Operating Temp.	0°C to 50°C (32°F to 122°F)
Storage Temp.	-20°C to 70°C (-4°F to 158°F)
Dimensions	215 mm (8.46") / 105 mm (4.13") / 37 mm (1.46")
Weight	0.39 kg (0.86 lb.)

AUTEL® 1-Sensor M

PROGRAMMABLE UNIVERSAL TPMS SENSOR
Autel 1-Sensor combines both 315MHz + 433MHz frequencies into one TPMS sensor with the highest industry vehicle coverage. Built to match or exceed OEM sensors in frequency strength and durability, MX-Sensors are 100% ID clone-able with no relearn required and offer latest model vehicle coverage because they quickly update with an Autel wireless programming tool.

99% VEHICLE COVERAGE - LIMITED 1-SKU INVENTORY
An easy to use and cost effective necessity for any shop performing TPMS repairs, the Autel 1-SKU sensor inventory solution with 99% vehicle coverage eliminates the need for distributors to carry the hundreds of sensors to fulfill shop orders. On the shop level, needing only 1-Sensor to service nearly every TPMS equipped vehicle means lower repair cost and higher install efficiency.

PRESS RELEASE INTERCHANGEABLE VALVE STEMS
The patented press release valve design allows interchangeable rubber and metal valves to be easily replaced in the same sensor head by hand, with no valve fitting tool required. Simply click in and press out. Installing TPMS sensors has never been so easy.

MAXIMUM SIGNAL STRENGTH WIRELESS PROGRAMMING
The extraordinary sensor signal strength allows AUTEL 1-Sensor to be easily programmed wirelessly even when the sensors have already been mounted to the wheel. And with strong signal strength, now up to 16 sensors can be programmed in one session with AUTEL latest TPMS tools. AUTEL MX-Sensor is 100% clone-able. No relearn is required when the MX-Sensor is cloned with the original sensor ID and put in the same position.

SUPERIOR BATTERY RELIABILITY - LOWER SENSOR WEIGHT
With the highest quality materials and advanced TPMS technology, AUTEL 1-Sensor provides superior battery life and reliability, to match OE sensor battery performance. The 1-Sensor body weighs only 12g, making it significantly lighter than most sensors in the market, which ensures better sensor stability and performance.

SAE TESTED & CERTIFIED - STRICT QUALITY CONTROL
AUTEL high-quality MX-Sensor is tested and certified to meet SAE industry standard J1205 / J1206 testing. AUTEL guarantees MX-Sensor are free from manufacturing defects for a period of 24 months or 24,000 miles, whichever option comes first. Each Autel MX-Sensor has a series number for assuring quality control. The series number is imprinted on the sensor or can be read with Autel TPMS tools. With the series number, Autel can track the sensor quality from our factory manufacturing to ensure only the highest quality parts are installed.

AUTEL® MaxiTPMS Pad

The MaxiTPMS programming accessory device (PAD) is the perfect tool for busy shops, it frees up your TPMS activation tools for important projects. When attached to your Windows based computer, the easy-to-use MaxiTPMS Pad can test and program all universal Autel MX-Sensor types quickly.

PROGRAM MX-SENSORS IN THREE EASY STEPS
1. Install the MaxiTPMS Pad software on your PC
2. Connect the MaxiTPMS Pad to your PC
3. Program Autel MX-Sensors
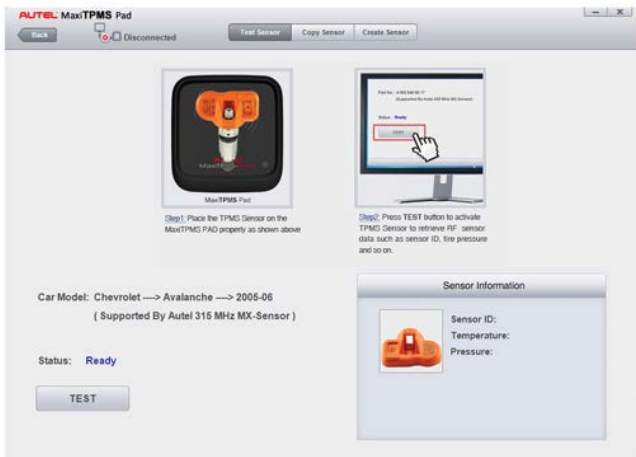
YOU HAVE TECH SUPPORT

ATEQ VT67

With interactive menus, complete TPMS diagnostic capability, and even built-in support, the VT67 will completely re-imagine the way technicians diagnose and validate TPMS systems. The tool boasts over 30 features and functions, as well as a built-in camera to document any vehicle issues, which can then be added to a complete TPMS report and emailed to the customer.

- ID Match functionality to troubleshoot and repair TPM systems
- Tire Management: tread reading, wheel inspection, tire registration
- VIN Scan for vehicle selection
- Read & clear TPMS DTC codes
- Change placard values when swapping tire sizes
- Built-in HD camera for accurate vehicle and wheel inspection
- Complete how-to guides and training videos built-in the tool
- Email tech support directly from the tool

- Secure Gateway (SGW) ready for Stellantis vehicles
- Save, manage, and edit customer jobs and reports on the cloud
- 100% coverage for Domestic, European, and Asian vehicles
- Program & clone 20+ aftermarket sensor brands
- Automatic DOT recognition via OCR, powered by Anyline
- WiFi & real time updates, powered by Live Sensor™
- Export & send complete customer reports via email
- TPMS sensor and service kit image library for easy reference

ATEQ VT57

Introducing the all-new VT57 with a brand new touchscreen interface, 100% OEM sensor diagnostic coverage, 90% OBD coverage, tire tread depth capturing, "Sync-ID" OBD technology and much more. Constant Live Sensor updates and the ability to connect Wi-Fi to ensure that the VT57 has the latest coverage available.

- All-new updated user interface
- Touch-screen capability
- Comprehensive make, model, year specific relearn procedures
- Programs all leading aftermarket programmable sensors
- WiFi & real time updates, powered by Live Sensor™
- TPMS reset via OBD2 on more than 90% of car models
- Retrieve/Clear TPMS DTC codes
- DOT Recording
- TPMS sensor part number look-up (OE and aftermarket)
- ECU unlocking for Toyota family of vehicles
- Tire Tread Depth functionality (Accessory Sold Separately)

ATEQ VT47

The VT47 TPMS programming tool offers functionality and flexibility at an affordable price. Designed with dealerships in mind, its simple and easy-to-use interface guides the user when replacing and servicing TPMS sensors. With the addition of the OBDII Quick Connector, users can reset the ECU in less than 2 minutes. Live WiFi Updating allows the VT47 to always be up-to-date with new features and current vehicle and sensor coverage.

- 100% coverage for Domestic, European, and Asian vehicles
- Comprehensive make, model, year specific relearn procedures
- Programs all leading aftermarket programmable sensors
- TPMS reset via OBD2 on more than 90% of car models
- WiFi & real time updates, powered by Live Sensor™
- TPMS sensor part number look-up (OE and aftermarket)
- Change placard values when swapping tire sizes
- ECU unlocking for Toyota family of vehicles

ATEQ VT TRUCK 2.0

The ATEQ VT Truck 2.0 offers functionalities specifically designed for the maintenance of trucks and buses and includes all-new OBD coverage. With an all-new sturdy and compact design, the tool can easily read sensors, even in twin wheels, and can manage up to 22 wheels. The tool is compatible with most truck and bus TPMS sensors and can be frequently updated with new heavy transport vehicles as soon as they are introduced. The VT Truck 2.0 will also have the ability to program aftermarket sensors specifically for commercial vehicles.

- Global database for trucks, buses, and trailers
- Displays all TPMS information on one screen
- Built-in vehicle configuration system
- OBDII capability for on-board diagnostics
- Aftermarket programmable sensor support
- WiFi & real time updates, powered by Live Sensor™

TIRE TREAD DEPTH GAUGE

The Tire Tread Depth Gauge is an add-on accessory for the VT56/57 OBD2 Diagnostic TPMS Tool. The accessory allows a technician to measure tire tread depth with high accuracy when checking TPMS sensors during routine service and maintenance checks. In one simple gesture, it can detect worn tires, tire damage and indicate poor alignment.

- Quickly captures 3 tire measurements (inner, center, outer)
- Measures with an accuracy of +/-1% + 0.0012 inches (0.03 mm)
- Measures 4 to 7 wheels per vehicle
- Green, yellow and red color codes on tool screen indicate wear
- Automatic calibration checks before every use
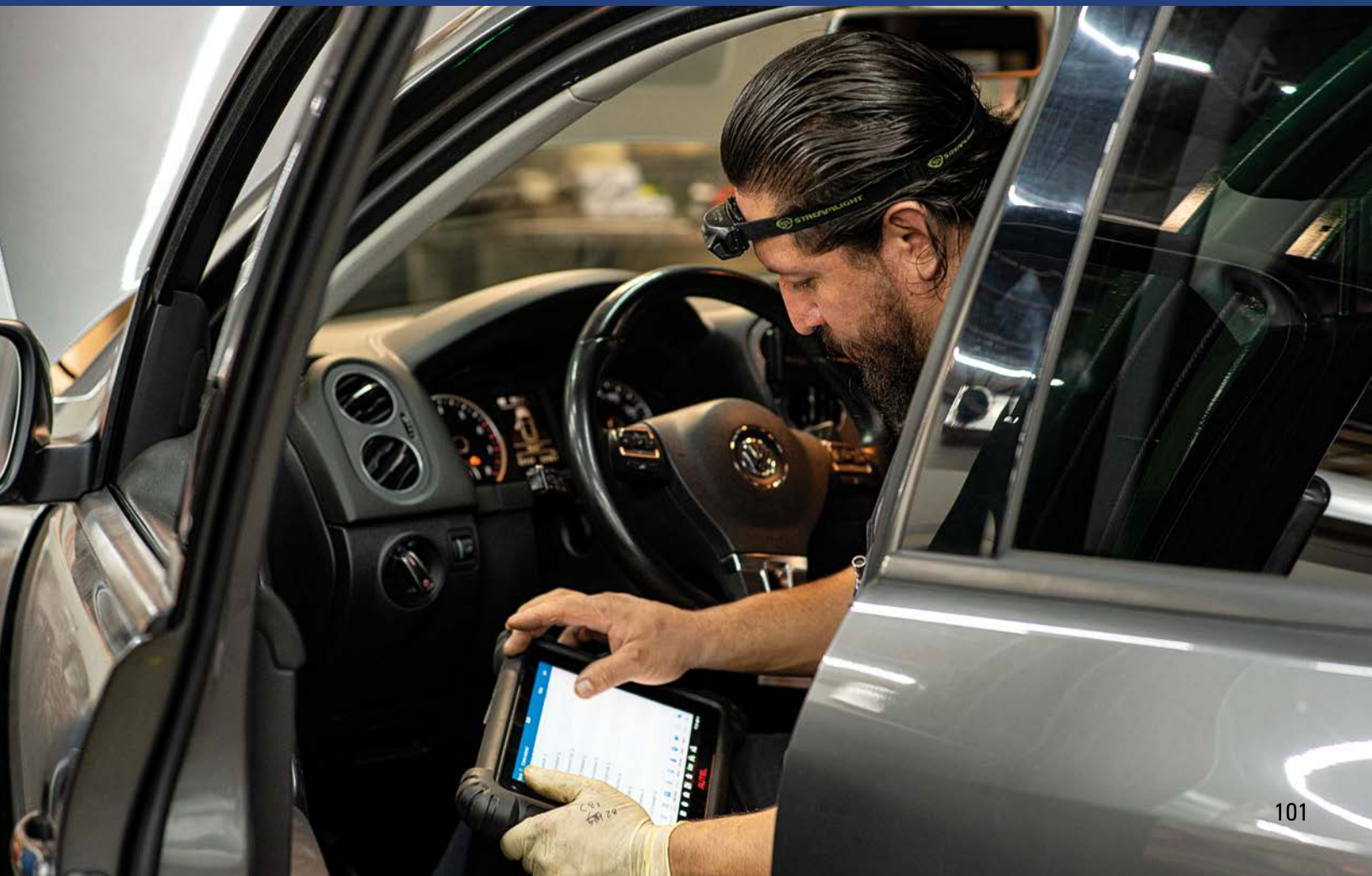
Tech450Pro

The Tech450Pro is the DIRECT REPLACEMENT for the wildly popular Tech400Pro! The Tech450 is the most advanced, mid-range All-In-One TPMS Service Tool.

The Tech450Pro works on more cars, is even faster, and offers features and benefits to make your shop more efficient. The Tech450Pro is wireless TPMS, wireless charging, wireless data transfer [Bluetooth], and wireless updating [WiFi]. The Tech450Pro was designed so that anyone in your tire shop or repair facility can use it! TPMS is hard enough, the service tool you use should be easy and intuitive. The Tech450Pro uses the Bartec Process Menu Flow. Start with TEST BEFORE YOU TOUCH and finish with the all-important RELEARN, and you have a job done, quickly and accurately. The Tech450Pro works on more than 95% of vehicles that REQUIRE OBD communication and is the only tool that offers OBD coverage on vehicles like Chrysler, Ford, GM and Volvo. This means a single workflow, faster service and a shorter learning curve for technicians.

- Works with all known OE TPMS Sensors
- Provides Test Before Touch Diagnostics
- Comprehensive TPMS Audit Report tells your customer what they need to know
- Performs Stationary and OBD Relearns
- Programming of the RITE-SENSOR® and other popular aftermarket replacement sensors like, Schrader EZ-sensor®, Huf IntelliSens®, Redi-Sensor® Unlock,
- Works with Aftermarket Multi-Protocol Sensors
- Wireless Bluetooth to quickly send data reports to a computer or printer
- WiFi tool software updating
- Inductive, wireless charging
- Comes with TWO YEARS of software updates Dill 5002, PDQ TPMS, JSP Steelman Select, Dynamic Pro-Select and Aligator sens.it®

Made in the U K !

Assembled in the U.S.A.!

Tech600Pro

The Tech600Pro is all about speed, accuracy, and ease of use with the specific purpose of helping tire businesses improve the bottom line!

The wireless capabilities of the Tech600Pro make it the fastest TPMS tool available in North America. TPMS relearns take just seconds! Connect the wireless VCI to the OBD II port and in mere seconds the Make-Model-Year are detected and decoded and the tool is ready for action.

Because Bartec works with all Original Equipment and Major Programmable sensors in the market, our data is accurate and so are our tools. The Tech600Pro coverage is second to none!

The TECH600Pro represents the very best in TPMS Technology for all levels of tire shop management. The graphical user interface makes the TECH600Pro very easy to learn and operate! Using RITE-SENSOR® and RITE-SYNC®, the TECH600Pro makes TPMS Service a breeze!

- 2.8" High Resolution Color Display
- 2.4 GHz WiFi / Wireless data transfer
- Long Lasting LiPo Battery
- QI [inductive] Wireless Charging
- Graphical interface allows techs to quickly navigate the menus
- Includes English, French and Spanish
- TPMS Diagnostics through OBDII
- Live Wi-Fi Tool Updating
- VCI loss prevention warning system
- VINDicate® quickly identifies the vehicle
- Wireless VCI makes relearns twice as fast

Made in the U K !

Assembled in the U.S.A.!

RiteSensor®

From the OE Factory to the local Tire Shop, Bartec products are the industry's best! It is Bartec's OE roots that helped us create our latest innovation, the Rite-Sensor®!

The Rite-Sensor® is Bartec's single SKU, multi-frequency programmable sensor. It offers 98% vehicle coverage while remaining easy to use. Simply program the sensor with one of Bartec's TPMS tools. The tool guides you through the process, step-by-step.

You can program the Rite-Sensor® before or after installation.

The RITE-SENSOR® comes assembled with a rubber valve stem. In some cases the aluminum valve stem is required or needed. First remove the rubber valve stem by unscrewing the fastener. Insert the aluminum stem into the sensor. Insert the anti-rotation pin into the hole at the base of the stem, just above the sensor body. Insert a new fastener into the stem and torque to 35.5 in-lbs (4Nm).

- Configures in less than 3 seconds
- Programs & Updates in less than 10 seconds
- Dual Frequency [315 MHz and 433 MHz]
- 97%, Single SKU Application Coverage
- Comes with both Rubber and Clamp In Valve Stem
- Programs with Bartec TPMS Tools
- Programs in free space or assembled in the wheel
- Programming process is directed by the tool
- Complete offering including replacement valves and service kits

Tire-pressure monitoring systems (TPMS) became mandatory for all light vehicles in the United States beginning with the 2008 model year. With these new systems came new opportunities for after-market shops to service and replace these sensors.

TPMS BASICS
TAP INTO A TPMS SOLUTION

- Approximately 95% of TPMS-equipped vehicles use a direct system, with sensors attached to the wheel itself. These sensors contain a radio-frequency (RF) transmitter that broadcasts the tire pressure to the driver information center, alerting low-pressure conditions or system faults. The sensors contain a small battery, usually linked to a motion-activated switch, so the sensor "wakes up" and begins transmitting once the vehicle begins rolling. This helps preserve battery life, but the sensor eventually will fail electrically.

- The average service life for a TPMS sensor is five to seven years, so many of the vehicles originally mandated for TPMS beginning in 2008 have had their sensors replaced once already, and likely are due for service again soon.

- Basic TPMS tests offers a few advantages. First, it is fast and the "touchless" way to check tire pressure, assuming the vehicle has TPMS of course. Second, and more importantly, the TPMS tester lets the technician know whether the TPMS sensor is functioning or not. This is an often neglected, but hugely important step in limiting liability!

What should be a concern for every service provider is that the TPMS sensors can stop working for various reasons at any time. Obviously, the most common fault is the battery going bad. However, it can sometimes take more than a week or more than a hundred miles before the TPMS MIL flashes on the instrument panel alerting the consumer. The typical scenario is that a customer arrives in the shop with a previously failed TPMS sensor, and it's not discovered by the technician. The shop performs a basic tire rotation. A few days later the TPMS MIL starts flashing and the customer is back with a complaint! A simple "test before you touch" inspection prevents the shop from owning a bad sensor, and better yet, gives them the opportunity to sell them a replacement if capable. If a shop is doing more advanced tire service, like tire rotations, tire repair and installation and tire up-fitting or plus sizing (changing the placard), that shop needs a combination-style TPMS tool or what's commonly known as a TPMS scan tool (one that combines TPMS sensor testing with OBD II programming capability). In these types of tire service, removing and replacing the TPMS sensor is required. Anytime a sensor is replaced, the new one needs to be programmed (or learned) to the vehicle and often time that means a connection to the OBD II port to accomplish the programming. Typically the TPMS scan tool can be used for the test-before-you-touch test, replacement sensor programming, placard adjusting, as well as the OBD II relearn.

YOU HAVE TECH SUPPORT!

THE FUTURE CAME FAST

ADAS

ADVANCED DRIVER ASSISTANCE SYSTEM

Advanced Driver Assistance System's (ADAS) are becoming standard equipment on new vehicles. The moderinization of ADAS applications is the first step toward realizing autonomous vehicles. Aftermarket repair facilities will need the knowledge and equipment to repair these vehicle systems if they want to stay competitive and profitable in the future. ADAS systems actively improve safety with the help of embedded vision and AI algorithms by reducing the occurrence of accidents and injury to occupants. ADAS combines large amounts of data with the help of image recognition software, ultrasound sensors, lidar, and radar. This technology can physically respond faster than a human driver can. It analyzes streaming video in real time, recognizing what the video shows, and determining how to react to it.

AE Tools & Computers can equip you with the latest in ADAS tools, as well as the training your technicians need to maintain and repair these futuristic vehicle systems.

IA900WA   AUTEL

The IA900WA frame performs both wheel alignment and ADAS calibration.

- 24in Touchscreen Monitor
- Simulcast from MaxiSYS Ultra
- MaxiSYS Ultra Tablet Cradle With Controls
- MaxiSYS Interface Instead of PC for Wheel Alignment
- Robotic Frame Movement
- Precise Optical Measurement With 6 High Resolution Cameras
- Self Calibrating Cameras, Always Accurate, Every Time
- Cameras Automatically Track Vehicle Height On Lift
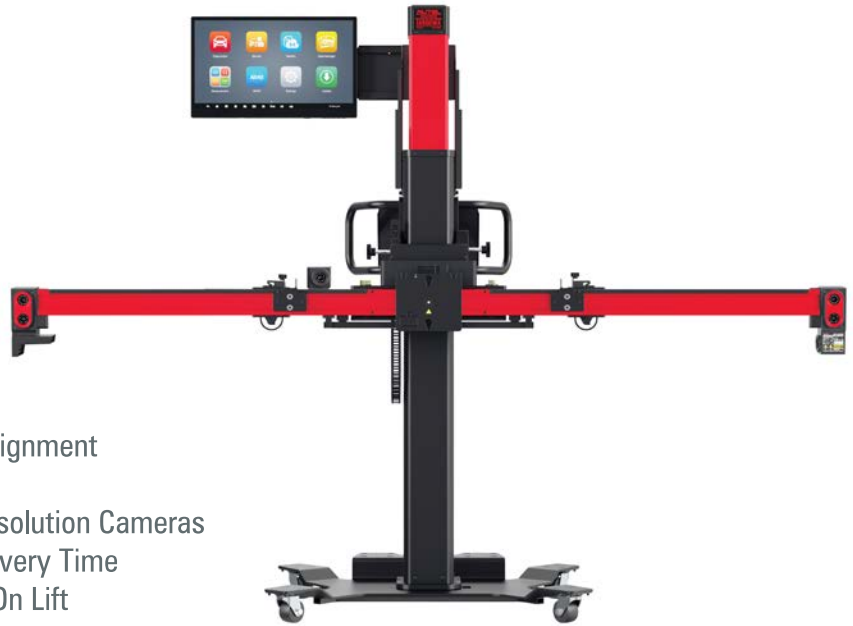
| ADAS CALIBRATION | WHEEL ALIGNMENT | 24 INCH TOUCHSCREEN | 6 HI-RES CAMERAS | SELF CALIBRATING | AUTO HEIGHT TRACKING |

MaxiSys Ultra ADAS Tablet   AUTEL

Comes pre-loaded with the newest ADAS and wheel alignment software. The MaxiSys Ultra is Autel's most ambitious diagnostics tablet designed to maximize technician intelligence. It features a 12.9-inch touchscreen tablet with Android 7.0 OS powered by an Octa-core processor (2.3GHz Quad + 1.7GHz Quad), substantial 256GB built-in memory, all powering the new split-screen multi-application navigation to provide diagnostic guidance and test components to confirm repairs. Combined with the dynamic topology module mapping, enhanced AutoSCAN features and Intelligent Diagnostics options, the Ultra offers technicians step-by-step repair guidance.

- Samsung Exynos 8895V Octa-Core Processor
- 4 GB RAM & 256 GB On-Board Memory
- 12.9" Touch Screen Display
- 2 Cameras (Front & Rear)

AUTEL ADAS PACKAGES INCLUDE:	STANDARD FRAME STATIONARY	MA600 FRAME PORTABLE	IA900WA FRAME STATIONARY	MAXISYS TABLET & MAXIFLASH VCI	ADAS SOFTWARE	LDW	AVM	BSD	ACC	LIDAR	NVS	RCW
IA900WA PART NO. IA900WA — The Ultimate for Calibration Capabilities	–	–	✓	–	–	–	–	–	–	–	–	–
IA900WAT PART NO. IA900WAT — The Ultimate for Calibration Capabilities	–	–	✓	Ultra ADAS	✓	–	–	–	–	–	–	–
IA900LDW PART NO. IA900LDW — Expands Lane Departure Warning Calibration Capabilities	–	–	✓	–	–	✓	–	–	–	–	–	–
IA900LDWT PART NO. IA900LDWT — Expands Lane Departure Warning Calibration Capabilities	–	–	✓	Ultra ADAS	✓	✓	–	–	–	–	–	–
IA900AS PART NO. IA900AS — The Ultimate for Calibration Capabilities	–	–	✓	–	–	✓	✓	✓	✓	✓	✓	✓
IA900AST PART NO. IA900AST — The Ultimate for Calibration Capabilities	–	–	✓	Ultra ADAS	✓	✓	✓	✓	✓	✓	✓	✓

AUTEL ADAS Standard Calibration Frame

The Autel calibration frame provides compatible use with vehicle leveling lifts by offering a taller than average extended adjustable height. The large automatic screw mechanism quickly raises and lowers the calibration frame pattern board and crossbar.

Alignment procedure is required to calibrate OE specified vehicle thrust angle before completing ADAS calibrations.

Autel ADAS calibration frame provides OE equivalent accuracy by wheel clamps attached securely to rim. Precise laser leveling from the Autel wheel clamp ensures the lowest degree of deviation from the OE specified thrust angle.
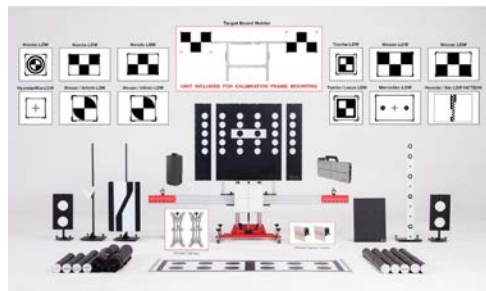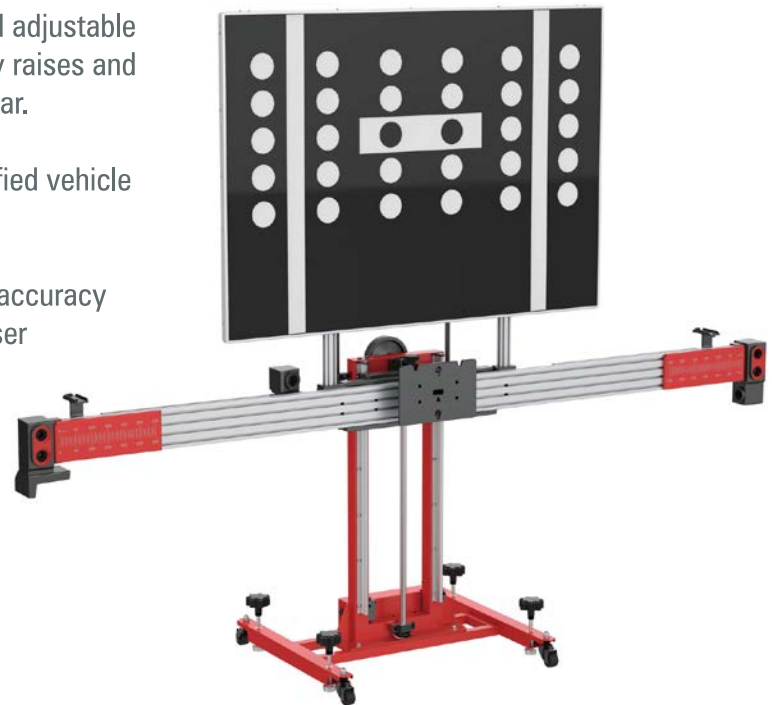
Main frame

The Autel calibration frame provides compatible use with vehicle leveling lifts by offering a taller than average extended adjustable height. The large automatic screw mechanism quickly raises and lowers the calibration frame pattern board and crossbar to meet the vehicle.

Wheel Clamp
Attaching to the wheel of the vehicle to support the laser.

Laser
Aligning the reflector horizontally so that the crossbar is parallel with the vehicle.

# AUTEL IA800 Intelligent ADAS Optical Positioning System

The IA800 Intelligent ADAS Optical Positioning System is one of the fastest and most precise calibration frames available. It positions without time consuming and tedious mechanical measurements. The Autel Intelligent ADAS Optical Positioning System features six high-resolution cameras to deliver 3-dimensional adjustment for the most accurate frame centering and vehicle distance recognition. Compatible with your existing Autel Standard Calibration Frame, and designed for seamless integration, this new component system optically measures two-wheel clamp targets to significantly cut down setup time and increase placement precision. The most extensive Camera, Radar, Lidar, and Night Vision Calibration Coverage in the industry.

CAMERA FEATURES:
- Three-Dimensional Scan of Vehicle
- Measures Distance, Frame Angle and Frame Offset in 1 Step
- Two Cameras on Each End of Crossbar to Identify Wheel Targets
- One Camera at Center of Crossbar to Measure Distance
- One Camera for Self-Calibration

NO MORE MECHANICAL TAPE PLUMB BOBS STRING LINES MIRRORS
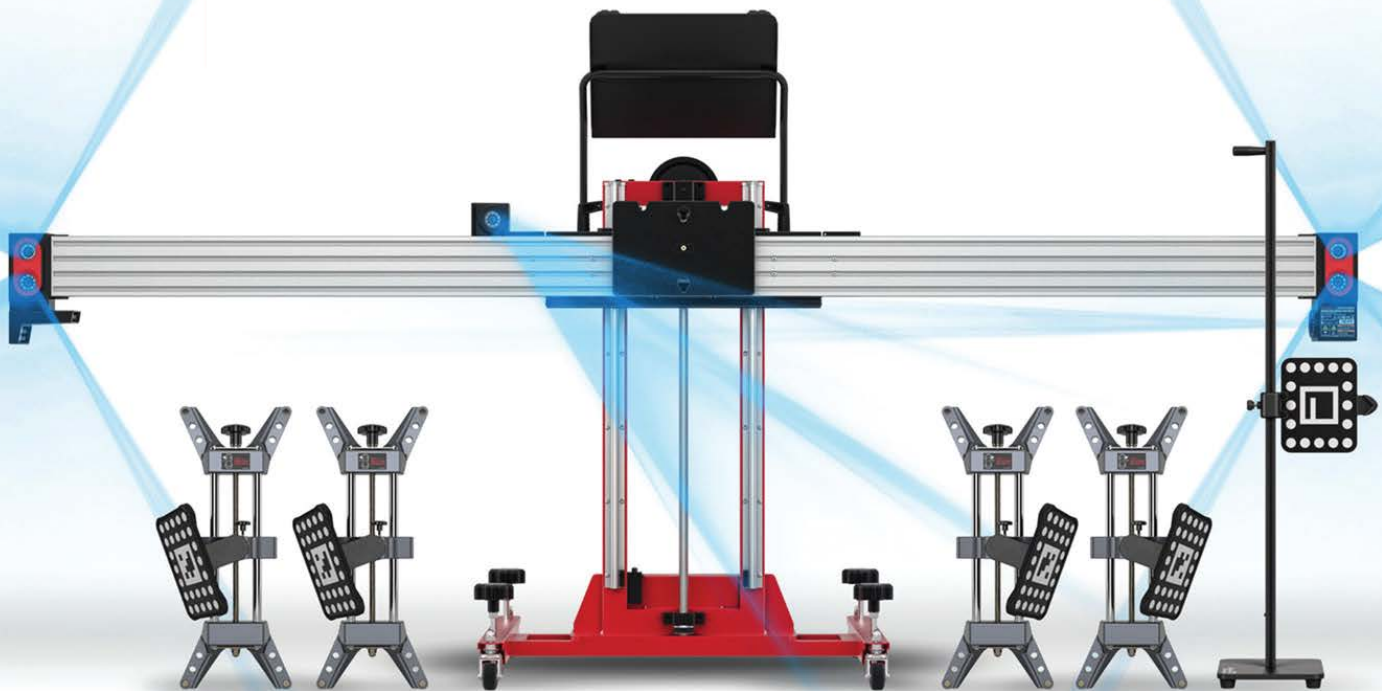
**EXPAND THE CAPABILITIES OF YOUR EXISTING STANDARD CALIBRATION FRAME**

AUTEL® MaxiSys ADAS MA600 Portable Calibration Tool

The Autel MaxiSYS ADAS Calibration solution is becoming more portable! The easy to use MA600 frame is quickly folded and disassembled for transport, to calibrate in many locations, creating a smarter and simpler service. Advanced Driver Assistance System (ADAS) is becoming standard equipment on today's new vehicles. With MaxiSys calibration tools and accurate software, Autel MaxiSys ADAS MA600 is an ideal calibration tool for glass replacement and more. Portable, expansive, affordable!

The MA600 provides accurate calibration procedures for camera based systems with accessories and oversize AVM patterns available to purchase separately. The new step-by-step tutorial graphics and fine line laser leveling process offers a quicker and more efficient vehicle centering and squaring to calibration frame procedure.
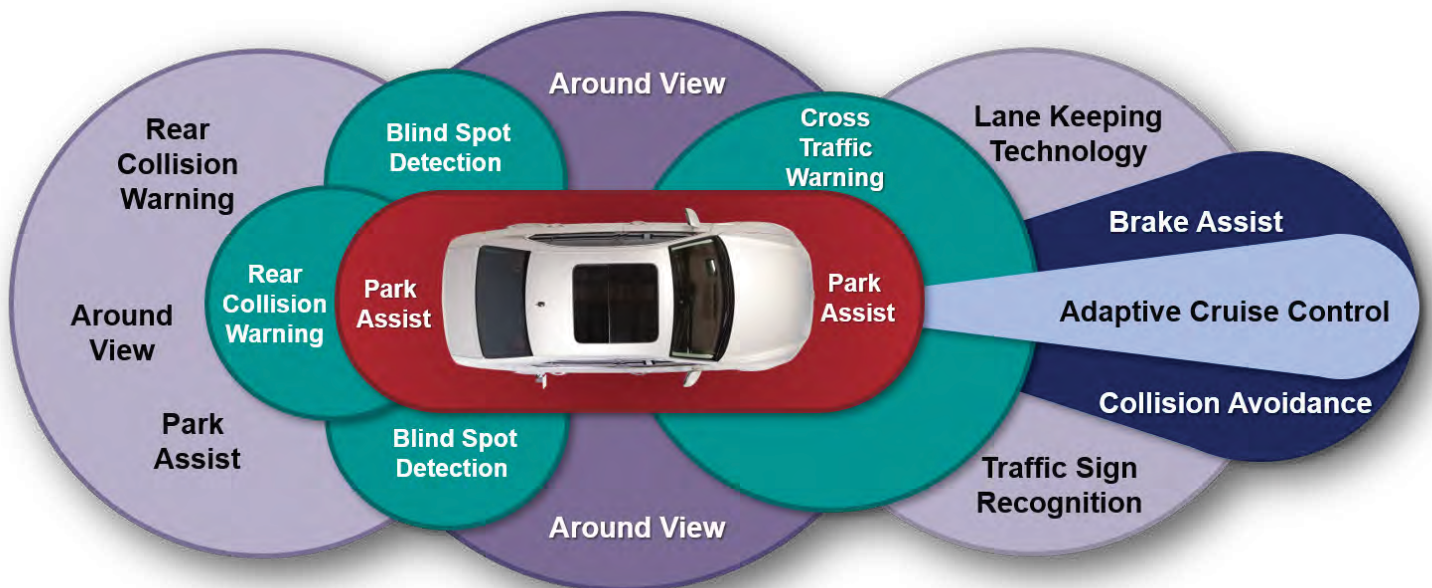
| AUTEL ADAS PACKAGES INCLUDE:	STANDARD FRAME STATIONARY	MA600 FRAME PORTABLE	IA900WA FRAME STATIONARY	MAXISYS TABLET & MAXIFLASH VCI	ADAS SOFTWARE	LDW	AVM	BSD	ACC	LIDAR	NVS	RCW
ADAS LDW 2.0 PART NO. LDW20 Expands Lane Departure Warning Calibration Capabilities	✓	–	–	–	⟳	●	–	–	–	–	–	–
ADAS LDW 2.0T PART NO. LDW20T Expands Lane Departure Warning Calibration Capabilities	✓	–	–	MS909	⟳	●	–	–	–	–	–	–
MA600 LDW 2.0 PART NO. MA60020 Expands Lane Departure Warning Calibration Capabilities	–	✓	–	–	⟳	●	–	–	–	–	–	–
MA600 LDW 2.0T PART NO. MA60020T Expands Lane Departure Warning Calibration Capabilities	–	✓	–	MS909	⟳	●	–	–	–	–	–	–
ADAS ALL SYSTEMS 2.0 PART NO. AS20 The Ultimate for Calibration Capabilities	✓	–	–	–	⟳	●	●	●	●	●	●	●
ADAS ALL SYSTEMS 2.0T PART NO. AS20T The Ultimate for Calibration Capabilities	✓	–	–	MS909	⟳	●	●	●	●	●	●	●
MA600 ALL SYSTEMS 2.0 PART NO. MAS20 The Ultimate for Calibration Capabilities	–	✓	–	–	⟳	●	●	●	●	●	●	●
MA600 ALL SYSTEMS 2.0T PART NO. MAS20T The Ultimate for Calibration Capabilities	–	✓	–	MS909	⟳	●	●	●	●	●	●	●
ADAS LDW 3.0 PART NO. LDW30 Expands Lane Departure Warning Calibration Capabilities	✓	–	–	–	⟳	●	–	–	–	–	–	–
ADAS LDW 3.0T PART NO. LDW30T Expands Lane Departure Warning Calibration Capabilities	✓	–	–	MS909	⟳	●	–	–	–	–	–	–
ADAS ALL SYSTEMS 3.0 PART NO. AS30 The Ultimate for Calibration Capabilities	✓	–	–	–	⟳	●	●	●	●	●	●	●
ADAS ALL SYSTEMS 3.0T PART NO. AS30T The Ultimate for Calibration Capabilities	✓	–	–	MS909	⟳	●	●	●	●	●	●	●

MAXISYS™

ADAS
ADVANCED DRIVER ASSISTANCE SYSTEM
CALIBRATION

ADAS Target Packages

AE Tools & Computers can supply you with the target packages you need for the vehicles you repair.
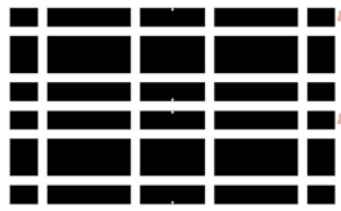
Honda-LDW

Honda-LDW

Mitsubishi AVM CSC1004_09
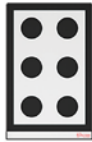
Honda LaneWatch CSC805_02

Target Stand CSC0802

Hitachi Radar Plate CSC0802_03

Toyota-LDW

Nissan-LDW

Nissan RCW CSC1006_05

x2
x2
x2
x2
x2

x6
x2
x4
x2
x2
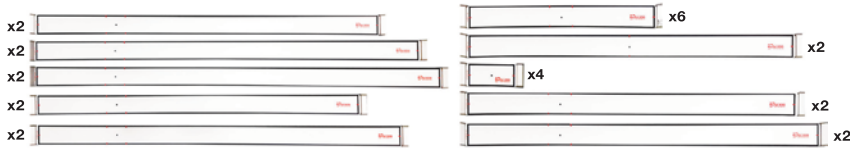
Toyota-AVM CSC1004_10
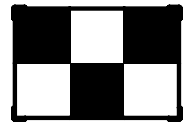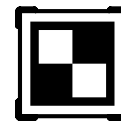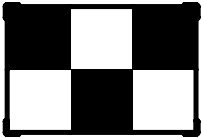
Toyota / Lexus-LDW
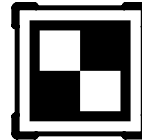
Nissan-LDW
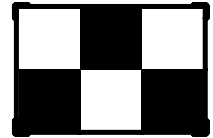
Hyundai / Kia-LDW PATTERN
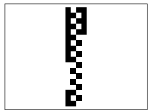
Honda-LDW
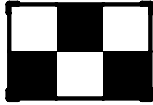
Honda/Kia-LDW

Nissan / Infiniti-LDW
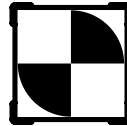
Nissan / Infiniti-LDW

Mercedes-LDW
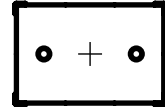
KNOWLEDGE IS PROFIT.

Train with the best. AE Tools & Computers offers training classes with Autel trainers to provide your technicians with the knowledge they need today to repair the vehicles of the future. The future came fast. **Are you ready?**

KEEP'EM ROLLING.

HEAVY DUTY

HEAVY DUTY DEALER-LEVEL DIAGNOSTICS AND PROGRAMMING

Expectations are high and timely service is of the utmost importance in the fast paced Heavy Duty Diesel repair industry. Don't let ever-evolving diesel technology like injector calibration, ECU upgrade and programming slow you down. Let AE Tools & Computers set you up with the right tools and support, so you get paid and your customers get back on the open road.

DURABOOK S14I

The S14I features an invincible mechanical design with rigorously tested components. It meets the standards of MIL-STD 810G Change 1, can withstand a 4-foot drop, and boasts an IP53 rating, making it suitable for use in locations where rain or dust may be a regular occurrence. Powered by Intel® 11th Generation i7 processors, and running Windows® 10 Enterprise IoT, the S14I provides users with hot-swappable battery feature without compromising long battery life. The S14I weighs only 5 lbs and is 33% thinner than the previous generation and features a long battery life!

• Available with optional 1000 nits DynaVue® sunlight readable display

Our proprietary configuration of multiple boot partitions allow you to run several OEM software platforms on the same drive, and drives can be easily swapped.

For more technical specifications, see page 13.

CAT

PACCAR

CUMMINS

INTERNTATIONAL

WHAT MAKES OUR
LAPTOPS
SO SPECIAL ?

For over a decade we've been building and perfecting custom laptops designed specifically to address the needs of the automotive technician, diesel technician and automotive locksmith. From the durability of the laptop to the hard drive configurations, our laptops are designed with you in mind.

Our laptops are powerful and fully armored. Drop resistant. Shock resistant. Dust resistant. Water resistant.

You're probably wondering just how sturdy rugged laptops actually are. What does "rugged" really mean? How can you be assured that the technology you're investing in will be reliable when it counts the most? Computer downtime has a major impact on productivity. Our laptops and tablets each pass numerous Mil-Spec tests. Spend your tool money wisely and get the right machine for your shop!

We partition the hard drive for efficiency.

As you may know, software from many of the OEM's conflict with one another. This means they can't operate together on the same hard drive. We've solved that issue by implementing multiple partitions on the same hard drive, each equipped with Windows 10 IoT Enterprise. By doing this, we are able to isolate the various OEM softwares from one another, so multiple OEM softwares run seamlessly from one laptop. Partitioning the hard drive makes our units completely scalable, so as you add more OEM tools to your arsenal, we can keep adding partitions to your hard drive. If you outgrow the included 1 terabyte hard drive, don't worry, you can easily switch between partitioned hard drives. Big shops and fleets love the way we build our laptops, because we create one master and replicate them exactly the same to standardize their units, leading to increased efficiency in the shop.

We remotely manage the entire system for you.

If the laptops operating system fails, or has other issues, we can do an automated recovery process by deleting the affected partition and loading on a new partition with the exact software you lost. We do this all remotely, through the internet, logged in to your computer in minutes, so you are back up and fixing cars fast. You'll never have to ship us a laptop for repair unless it has physical damage or a total hard drive failure.

Our laptops can be pre-loaded with the software you need, completely customized for your operation, with lifetime tech support from the team at AE Tools & Computers. Most units are ready to ship out in 72 hours!

Drop Resistant
Spill Resistant
Shock Resistant
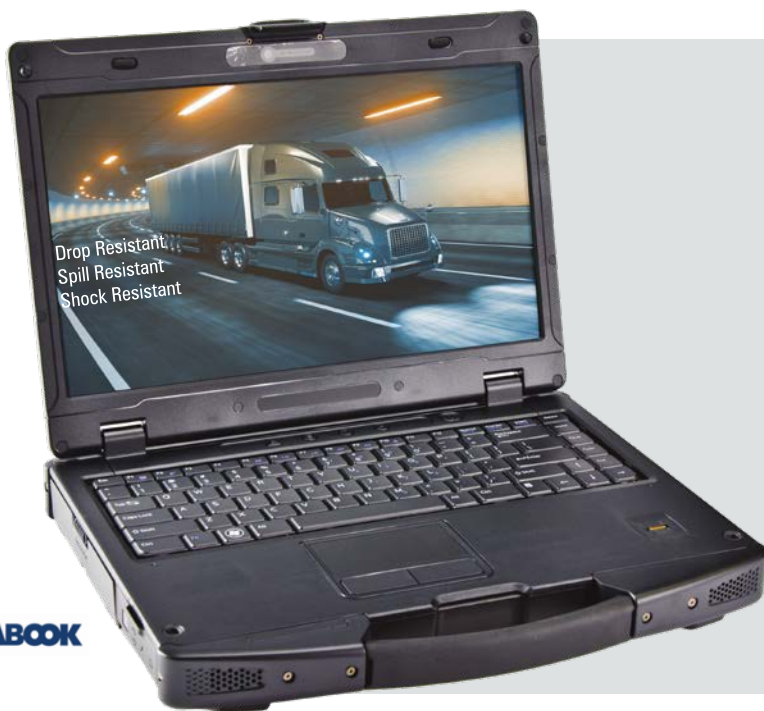
DURABOOK

Performance Features:

Durabook S14I Laptop
Intel Core i7 Processor
Windows 10 Enterprise IoT
16GB DDR4 RAM
1Terabyte Solid State Hard Drive
Removeable Hard Drive Caddy
14" HD LCD (1366x768) Screen
USB 3.0
2.0MP Webcam
WiFi 802.11 ac/a/b/g/n
Bluetooth 4.2
1 Gigabit LAN Port
DB 9-Pin Serial Port
PCMCIA Slot
Smart Card Reader
HDMI VGA Video
9 cell Battery
AC Adapter and Power Cord

REAL SUPPORT.
REAL SOLUTIONS.

Nexiq USB-Link™2

The USB-Link™ 2, the next generation vehicle interface from NEXIQ Technologies®, has arrived. Dependable and rugged, the new USB-Link™ 2 is five times faster than its predecessor. It has sixteen times more random access memory (RAM) than the old USB-Link™, and it supports heavier bus loads on simultaneous channels.

The USB-Link™ 2 Wi-Fi edition supports dual band (2.4 Ghz and 5 Ghz) 802.11 a/b/g/n Wi-Fi, which is designed to avoid interference and maximize throughput. For even more reliability, we've upgraded the USB connector to a more robust, automotive grade connector with a latching mechanism. The USB-Link™ 2 is compatible with a wide range of OEM software applications.

The USB-Link™ 2 is also available with Bluetooth.

Includes:
- Latching USB Cable (PN 404032)
- 9-Pin Deutsch Adapter, 1 Meter (PN 493128))
- J1962 Adapter (16-Pin OBD II, 1 Meter (PN 493113)

Vehicle Network Protocol Support:
- CAN / J1939 / ISO15765 -250K, 500K, 1Mb/s
  with Auto Baud detection (3 channels)
- Single Wire CAN (SWCAN)
- ISO 11898-3 Fault tolerant Can (FTCAN)
- J1708
- J1850 VPW (Class 2)
- J1850 PWM (SCP)
- ISO 9141 / KWP2000 (ISO 14230) K/L line
- ALDL 9600 and 8192 baud
- ATEC 160 baud
- Operating System Support
- RP1210a, RP1210b, RP1210c, and RP1227
- J2534 (2004 draft) API support
- J2534-1 partial implementation (commercial vehicle-focused)
- Supports Windows® 7 (32 & 64 bit)
- Supports Windows® 8 (32 & 64 bit)
- Supports Windows® 10 (32 & 64 bit)
- USB 2.0 (vehicle-to-PC connectivity)
- Wi-Fi (dual band)

100% GENUINE SOFTWARE

USB-Link™ 2

- RP1210A, RP1210B, RP1210C and J2534 API support
- Bluetooth vehicle-to-PC wireless connectivity
- USB vehicle-to-PC connectivity
- Protocol coverage for automotive to heavy duty vehicles:
- J1939/CAN125/CAN250/CAN500/CAN1000
- J1587/J1708
- J1850

- PC-to-vehicle interface compatible with multiple software applications, minimizing your investment in multiple brand-specific diagnostic interfaces.
- Class 1 Bluetooth provides up to 100 feet of wireless freedom
- Flexible configuration supports wired or wireless connectivity
- Compatible with applications that diagnose engines, transmissions,
- ABS, instrument panels and more
- Quick access to vehicle data for maintenance or management reports
- Quickly attaches to vehicle's diagnostic connector
- May be used with desktop PC or laptop

C CUMMINS

Cummins Insite Pro
Cummins Insite Lite
Cummins Incal
ECU Flash Programming
ECU Recovery Service
Locked ECU Removal Service - ZapIt
QuickServ
FleetCount
PowerSpec

A ALLISON

Allison DOC® For PC-Service Tool
Allison DOC® For Fleets
Diagnostic Info

B BENDIX

Bendix ACom

H HINO

Hino eXplorer
Diagnostic Explorer DXII

F FREIGHTLINER

ServiceLink (Body)

E EATON

Eaton ServiceRanger

PTT PREMIUM TECH TOOL

MACK PTT
Volvo PTT
Repair Info

CATERPILLAR C

CAT ET
CAT OFF HIGHWAY

DETROIT DIESEL D

Detroit Diesel Diagnostic Link
Detroit Diesel Calibration Tool
Detroit Pro
Detroit Standard
Detroit PSL - (Repair Info)
Mercedes HD Engines & Transmissions
DDEC Reports

INTERNATIONAL I

International NED
International ABS
International DLB - All Levels
International IPC v2.02
International ICAP, IPTS,
International Master Service Manual
ECM, FICM, IDM Programming

PACCAR P

Davie 4
Service Info
ESA (Body)

WABCO / MERITOR W

WABCO Toolbox
Meritor Toolbox
(Full Diagnostic & Repair Info)

Compatible Software

One Adapter. Many Applications.

USB-LINK™ 2

NEXIQ
TECHNOLOGIES®

We Supply *GENUINE* OEM Software, Subscriptions & Support

YOU HAVE TECH SUPPORT!

Cojali Jaltest

The Jaltest Commercial Vehicle kit has been developed to perform diagnostics in several types of commercial vehicles such as trucks, buses, trailers, medium and light commercial and pickup. Pair this extensive coverage with Jaltest INFO, GRP & Troubleshooting for the industry-leading diagnostic solution in the North American market.

- Reduced Weight < 1 lb. 76% Less than V8.
- 4 CAN Channels. Geared for the future.
- Integrated Bluetooth antenna.
- Shock absorbing Design.
- RP1210 + Pass Thru Compliant.
- 2x Average RAM Capabilities.
- USB Protection.
- ID40 Compliant. Waterproof / Dustproof.

100% GENUINE SOFTWARE

TRUCK COVERAGE
AMERICAN LAFRANCE
AUTOCAR
CAPACITY
CATERPILLAR
CRANE CARRIER COMPANY (CCC)
FREIGHTLINER
INTERNATIONAL
KALMAR OTTAWA
KENWORTH
MACK
OSHKOSH
PETERBILT
PIERCE
STERLING
TICO
VOLVO USA
WESTERN STAR

LIGHT COMMERCIAL VEHICLE COVERAGE	
DFSK	MITSUBISHI
DODGE	MITSUBISHI FUSO USA
FIAT	NISSAN
FORD	PIAGGIO
FOTON	STERLING
FREIGHTLINER	TOYOTA
GMC / CHEVROLET	UD TRUCKS
GREAT WALL	VOLKSWAGEN
HINO USA	WORKHORSE
HYUNDAI	
INTERNATIONAL	
ISUZU USA	
IVECO	
KIA	
MERCEDES-BENZ	

COMMERCIAL
VEHICLES

OFF-HIGHWAY
VEHICLES

AGRICULTURAL
VEHICLES

MARINE
VESSELS

MATERIAL HANDLING EQUIPMENT

MILITARY TACTICAL VEHICLES
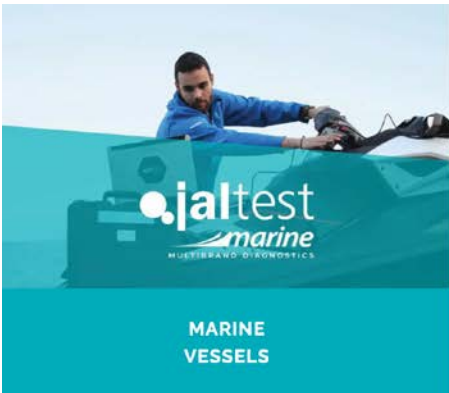
Isuzu IDSS

The Isuzu IDSS is an all-in-one hardware and software solution for diagnosis and repair of Isuzu commercial vehicles.

This package contains a full-featured scan tool, service information including electronic troubleshooting manual, full color component locator, wiring diagrams, service programming, and bulletins to support all North American Isuzu manufactured products.

Includes a 6 month IDSS software subscription.
You do not need to extend your IDSS subscription after the first six-month subscription expires. Your tool will still work, however, you will not receive any new model updates. If necessary, you can purchase a new license any time in the future. This will give you all the new updates that were released after your subscription expired.

IDSS Capabilities:
Reprogram / Reflash All Control Modules (ECM's)
Perform Injector Flow Rates
Diesel Particulate Filter Regens, both Normal and Slow Flow Rates
Cylinder Cutout Tests, Buzz Tests, Contribution Tests, etc.
All OEM dealer-level functionality

Includes:
IDSS VCI
USB Cable
DLC Cable
Software CD
6 month IDSS software subscription

100% GENUINE
SOFTWARE

Mercedes Benz Xentry

Mercedes Benz C6 DoIP Xentry Diagnosis VCI Multiple Diagnosis Coding and Programming kit is the new generation of diagnostic equipment intended for the full range of diagnostic operations, coding and programming of Mercedes-Benz vehicles.

The adapter has replaced outdated Xentry Connect, Xentry Kit, SD Compact C4, SD Connect, SD Connect DoIP and Part D. It is used for comprehensive diagnostics of all Mercedes-Benz passenger, commercial and cargo vehicles. Only XENTRY Diagnosis VCI provides the whole range of diagnostic operations, programming and coding.

Features:
- Xentry software for New Benz models (Does not support DAS)
- Keygen
- Operating System: Win10 64bit
- Supports DoIP protocol
- DTS Monaco software (Does not Support Vediamo)
- Supports Lan Cable/USB connection (Does not support WiFi)

100% GENUINE SOFTWARE

CAT COMM 3

The latest generation of the CAT Communication Adapter group, and replaces the CAT Comm Adapter **II** and the old 317-7487 tool number. This is the only recommended communication device for CAT, and the only datalink device that will allow you to properly communicate with a CAT engine on dual datalinks. This function is needed for some CAT ET (Electronic Technician) functions.

Includes:
- CAT Comm Adapter **III**
- CD for installing the drivers
- USB Cable (From device to your computer)
- J1939/J1708 Cable - This includes the 9-pin and the new 14-pin cable.
- Hard Shell Case

ATEQ VT TRUCK 2.0

The ATEQ VT Truck 2.0 offers functionalities specifically designed for the maintenance of trucks and buses and includes all-new OBD coverage. With an all-new sturdy and compact design, the tool can easily read sensors, even in twin wheels, and can manage up to 22 wheels. The tool is compatible with most truck and bus TPMS sensors and can be frequently updated with new heavy transport vehicles as soon as they are introduced. The VT Truck 2.0 will also have the ability to program aftermarket sensors specifically for commercial vehicles.

- Global database for trucks, buses, and trailers
- Displays all TPMS information on one screen
- Built-in vehicle configuration system
- OBD**II** capability for on-board diagnostics
- Aftermarket programmable sensor support
- WiFi & real time updates, powered by Live Sensor™

THE FUTURE CAME FAST

YOU HAVE TECH SUPPORT

When you have questions or problems, simply call us and we will log in remotely and help you solve the issues you are facing. This support is REAL. Real people helping you when you need it most!

There are no limits to the calls and no additional expenses for the help. If there are subscription fees or update costs associated with the tools, we will make you aware of those up front. There are usually annual subscriptions and updates required for most tools. Additionally, pin codes are typically required for key programming and other security functions. We can educate you on how all that works and help you navigate the process of acquiring, installing and using them.

We view our relationship with our customers as a long-term partnership. Once we get our first tool into your hands and you experience our support, you'll understand why we such loyal customers! We are tuned into the urgency that is present in every shop, and we understand the challenges.

Give us the chance to earn your business!

WWW.AETOOLS.US

HAVE QUESTIONS? TALK TO A REAL PERSON!

913.856.6678

AUTEL | MaxiSys CV 909CV

LIGHT DUTY / MEDIUM DUTY / HEAVY DUTY

The MaxiSYS CV performs enhanced system diagnostics on more than 60 commercial vehicle brands. Users can read and clear codes, view and graph live data, perform tool-guided maintenance services, complete an array of special functions and diagnose manufacturer-specific systems including Allison transmissions, Bendix ABS Brake systems, Detroit Diesel Engines and Eaton and Wabash ABS trailer brakes. Comes with a one-year warranty and one-year of software updates.

AE TOOLS & COMPUTERS IS AN AUTHORIZED **AUTEL** DISTRIBUTOR

5MP Camera	1.4 GHz Quad-core	1024x768 LED Display	Grease & Water resistant	11000mAH Lithium-polymer battery	4.0 Android OS	32G Solid state drive

SPECIAL FUNCTIONS

• DOC/DPF Replacement Reset • Fuel Pressure Adaptation Reset • Injector CEOM Reset • O2 Sensor Calibration • Injection Quantity Adjustment • DPF Regeneration • DSI System De-Aeration • MAF Sensor Calibration	• Parameter Setting • Aftertreatment Maintenance • Aftertreatment Maintenance Filter Installation • Aftertreatment Particulate Matter Sensor Regeneration • Aftertreatment SCR Catalyst Cold Soak Override • Aftertreatment SCR System Health Monitor • Boost Calibration • Rack Sensor Calibration	• Timing Calibration • Monitor Throttle Position Sensor • Extended Service Coverage • Injector Trim Calibration • **Configuration** • Custom Data • Maintenance Monitor

EXPERT | BUSES | TRUCKS

EXPERT		BUSES	TRUCKS		
• Allison • Bendix • Caterpillar • Cummins • International • Detroit • PACCAR • VOLVO • Freightliner • Wabco	• ZF Meritor • MERCEDES BENZ • Boschauto • Power Stroke • AISIN • IVECO • Mack • Eaton • MTU • MWM	• OBD • VOLVO • AGRALE • HINO • ISUZU • MERCEDES BENZ • MITSUBISHI FUSO • VOLKSWAGEN • TOYOTA • Renault	• VOLVO • AGRALE • AUTOCAR • CAPACITY • Dodge • FIAT • FORD • FOTON • Freightliner • GMC • GREAT WALL	• HINO • HYUNDAI • ISUZU • KIA • MERCEDES BENZ • MITSUBISHI • MITSUBISHI FUSO • NISSAN • Sterling • International • IVECO	• VOLKSWAGEN • Kenworth • Mack • Peterbilt • WORKHORSE • WESTERN STAR • SETRA • UD • Renault

SUPPORTED PROTOCOL | ADAPTERS | BASIC FUNCTION | HIGHLIGHT

SUPPORTED PROTOCOL	ADAPTERS	BASIC FUNCTION	HIGHLIGHT
• SAE J1939 • SAE J1708 • **Manufacture-defined Protocol J1939** • **Manufacture-defined J1708** • KWP • VPW • UDS-CAN • CDL	• Deutsch- 6PIN • Deutsch -9PIN • OBD-16PIN	• ECU Version • Read DTC • Clear DTC • Actual Value • Activation Test	• AutoVin • Autoscan

REAL SUPPORT.
REAL SOLUTIONS.

MAKING KEYS WITH KEYSTROKES

LOCKSMITH

THE CUTTING EDGE OF KEY SECURITY

Time is money for an automotive locksmith, which makes having the right tools for the job critical. From key cutting machines and programming tools to cloners and scan tools, keeping up with the latest technology and modern solutions like ECU matching and security resets can be a real challenge. Beyond just cutting new keys with machines, you're making keys with keystrokes. AE Tools & Computers is here to make sure you're on the cutting edge.

J2534 PROGRAMMING & OEM DIAGNOSTICS

AE TOOLS & COMPUTERS

Manufacturer	Key Programming	Diagnostics	Programming / Coding Capabilities
Acura	Yes	Yes - Dealer Level	Yes
Audi	Yes	Yes - Dealer Level	Yes* *K LINE ADAPTER REQUIRED FOR OLDER VEHICLES
BMW	YES KEY SYNCHRONIZATION CAN'T CREATE NEW KEY	Yes - Dealer Level	2017 ⌄ *EXCLUDES MOST BUS VEHICLES (ICOM IS SUGGESTED) 2018 ^
Chrysler	Yes* 2004 ^ *CAN VEHICLES	Yes - Dealer Level	2004-2020* *CAN VEHICLES
Ford	Yes	Yes 2018 ^	Yes
General Motors	Yes	Yes - Dealer Level	Yes
Honda	Yes	Yes - Dealer Level	Yes
Hyundai	Yes 2018 ^	Yes 2018 ^	ECM & TCM
Infiniti	Yes	Yes 2018 ^	2017 ⌄ ECM & TCM 2018 ^
Isuzu	Yes	Yes - Dealer Level	Yes
Jaguar	Yes 2017 ^ DOIP REQUIRED	Yes - Dealer Level	Yes DOIP REQUIRED FOR 2017 ^
Kia	No	Yes 2018 ^	2017 ⌄ ECM & TCM 2018 ^
Lamborghini	Yes	Yes - Dealer Level	Yes
Land Rover	Yes 2017 ^ DOIP REQUIRED	Yes - Dealer Level	Yes 2006 ^
Lexus	Yes	Yes - Dealer Level	Yes
Mazda	Yes	Yes 2018 ^	ECM / TCM / PATS 2017 ⌄ MDARS REQUIRED ON MAZDA 3 2018 ^
Mercedes Benz	No	Yes	ECM & TCM 2018 ^
Mini	YES KEY SYNCHRONIZATION CAN'T CREATE NEW KEY	Yes - Dealer Level	2017 ⌄ *EXCLUDES MOST BUS VEHICLES (ICOM IS SUGGESTED) 2018 ^
Mitsubishi	Yes CAN Vehicles	Yes CAN Vehicles	ECM & TCM 2006 ^ 2018 ^
Nissan	Yes	Yes 2018 ^	2017 ⌄ ECM & TCM 2018 ^
Porsche	Yes	Yes - Dealer Level	Yes
Subaru	Yes 2015 ^ MOST MODELS	Yes - Dealer Level	Yes 2015 ^ MOST MODELS
Suzuki	No	No	ECM & TCM ALMOST ALL MODULES
Toyota	Yes	Yes - Dealer Level	Full diagnostics & programming capabilities *2020 TOYOTA SUPRA REQUIRES ADAPTER
Volkswagen	Yes	Yes - Dealer Level	Yes* *K LINE ADAPTER REQUIRED FOR OLDER VEHICLES 2004 ^
Volvo	Yes	Yes - Dealer Level	Yes *2016 ^ XC SERIES REQUIRES ADAPTER

Manufacturer access, pricing and coverage is subject to change. LSID may be required for key reprogramming and security related functions.

Full Capabilities | **Limited Capabilities** | **None** | ⌄ OLDER MODEL YEARS | ^ NEWER MODEL YEARS | *Chart is current as of September 2022.

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Apply to Become a "Registered" Vehicle Security Professional through the NASTF Registry

The NASTF "Registry" is the foundation of the Secure Data Release Model; it is the repository of secure, background checked Vehicle Security Professionals (VSP). A VSP is an automotive locksmith or repair technician who specializes in services that require use of security-related service information. These services include immobilizer resets, component replacements that require initialization of security systems and creation/registration of high security keys.

Locksmiths and auto repair technicians who have a need to access automaker security-related service information can apply for inclusion in the Registry. The NASTF "Registry" process requires completion of a comprehensive application and submission to the NASTF Registry Administrator. The Registry is administered by the Automotive Service Association (ASA). Trade association membership is not required to be included in the Registry. Applicants to the Registry agree to undergo a background check and abide by the Registry Terms & Conditions of Use. found on the NASTF Registry website.

Once accepted into the Registry, the VSP is issued a security credential known as an LSID or Locksmith Identification number. With a valid LSID, a VSP has access to security related information from participating automaker service information websites and/or call centers. A valid LSID and password is issued by the Registry for each individual authorized to access automaker security-related information. The LSID and password is required for every service information transaction that involves security-related data.

About The National Automotive Service Task Force:

The National Automotive Service Task Force is a not-for-profit organization established to facilitate the identification and correction of gaps in the availability and accessibility of automotive service information, service training, diagnostic tools and equipment, and communications for the benefit of automotive service professionals. NASTF is a cooperative effort among the automotive service industry, the equipment and tool industry and automotive manufacturers.

There is no cost to participate in NASTF. If you are a professional auto service technician, shop owner, OEM service employee or any other automotive industry professional supporting the mission of NASTF, please enroll at www.NASTF.org.

PROTECTING THE AFTERMARKET
ACCESS TO INFORMATION & DATA IS CRUCIAL!

NASTF is proud to assist AE Tools & Computers in their goal of providing aftermarket repair shops, heavy-duty repair facilities, and automotive locksmiths with OEM-level diagnostic solutions and dealer-level support for on-car computer programming, immobilizer and security-related issues, along with scan tool maintenance and repair. All registered NASTF VSPs (vehicle security professional) have access to key codes, PIN numbers, immobilizer reset information, and similar types of security-related information, directly from the automaker through the Secure Data Release Module (SDRM). SDRM is a data exchange system conceived and designed cooperatively by automakers, the independent repair, insurance and law enforcement communities. Most automakers make this information available instantly from their websites 24/7/365.

NASTF also provides a library of service information links by automaker, allowing for quick access to automotive service information, service training, diagnostic tools and equipment, and communications.

In the event of a true service information gap, NASTF members are invited to submit a Service Information Request (SIR). SIR is a feedback service unique to NASTF which allows automotive professionals to submit a gap issue for urgent review by participating OEMs.

As always, NASTF membership remains free of charge. For more information, please visit NASTF.org.

-Donny Seyfer AMAM
Executive Officer
National Automotive Service Task Force

YOU HAVE TECH SUPPORT!

Our Tech Support can help guide our customers through the process of applying to become a Registered Vehicle Security Professional.

We're here for you.

Ninja Total

KEYLINE USA

Ninja Total is the exclusive all-in-one electronic key cutting machine that copies, decodes and codes edge cut keys and decodes and codes laser and dimple keys. Ninja Total is the ideal machine for all locksmiths who want to offer a key cutting service with a complete and high-performing tool.

Versatile and complete.
The combination of two key-cutting stations makes it possible to cut both residential and car keys, with a single machine, quickly and easily, without sacrificing quality and precision during the cutting process.

Ninja Total is available with the optional engraving function for the head of the keys, through the dedicated C25 clamp.

Quick.
The high quality technology based on the combined action of three axes and two powerful motors allows single passage key cut.

New clamp.
Ninja Total is equipped with the new, exclusive C30 single clamp for the majority of dimple and laser keys, and with a large set of small milling cutters to cut the most popular keys.

Ergonomic and sturdy.
The Keyline "Ninja" design is a symbol of solidity and compactness. Easy to handle and use,thanks to its wide operating station, Ninja Total is the ideal tool in all situations, for all jobs and environments.

Easy and intuitive.
The advanced Liger Software developed by Keyline makes Ninja Total easy to use through an intuitive user interface, supported by a strong and stable industrial console which allows quick access to one of the most complete key databases in the market.

Patented technology.
Innovation and quality are guaranteed by extensive international protection: Patent for Utility Model for the double cutting station and Patent pending for the sliding reading group.

YOU HAVE TECH SUPPORT!

SUPPORTED KEYS

EDGE CUT KEY   DIMPLE KEY   CRUCIFORM KEY   LASER KEY

TIBBE KEYS   SIMPLEX KEY

Gymkana 994 ■ **KEYLINE** USA

GYMKANA 994 completely revolutionizes the daily work of automotive operators and duplication specialists. With Gymkana 994 you can provide automotive laser and double-sided edge cut car key service everywhere, at any time and with the utmost flexibility!

Unlimited accessibility and dynamic user interface. Thanks to its compact and ergonomic design and its external power supply, the Gymkana 994 is easily portable and can be used in a wide variety of work situations. In addition, the fastening kit with brackets and optional rechargeable battery make it possible to cut keys on the go for mobile security professionals.

Freedom of operation.

According to the user's needs, it is possible to use the Gymkana 994:

- in stand-alone configuration with the Keyline industrial console. With its powerful technology, the console can considerably reduce machine start-up times. Sturdy and suitable for all work situations, the console is operated by Keyline Liger software, which is synonymous with reliability.

- in mobile mode, through an Android* smartphone or tablet. With the new Keyline Duplicating Tool smart App, the Gymkana 994 machine is very user-friendly, with simplified screen prompts. In this mode, software is always updated, machine start-up times are very fast, and its functions simplified; in addition, thanks to the Bluetooth connection, there's a wireless connection between Gymkana 994 and your smartphone/tablet.

- New universal self-aligning U clamp, for the majority of laser and double-sided edge cut keys. The following optional clamps are also available: V clamp for Volkswagen laser keys including the new four sided keys, H clamp for 6-cut Tibbe system and S clamp for Simplex keys.

- The wide, well-lit working area makes it possible to also cut flip keys and emergency keys easily, while the area is always kept closed and protected, to guarantee cleanliness and operating safety. The cutter speed and the axis are adjustable, to adapt to the most diverse and innovative materials. The cutter changing is now even easier, to minimize the margin of error. Everything is integrated in a durable structure that is synonymous with Keyline quality.

SUPPORTED KEYS

YOU HAVE TECH SUPPORT!

EDGE CUT KEY   LASER KEY   TIBBE KEYS   SIMPLEX KEY

KEYLINE USA

Key Machine Cutters, Tracers and Expendables

All the parts you need for your Keyline Machines, available now!

CUTTERS

TRACERS

TIP STOPS

JAWS & CLAMPS

ADAPTERS

CALIBRATION BLANKS

Triton Plus Key Machine

Featuring newly upgraded on-board electronics and a robust gear-driven motor, Triton PLUS has been redesigned with the future in mind.

The Triton Plus by Lock Labs is an all-in-one key cutting machine with the ability to generate & duplicate more keys than any other machine in its class. From automotive to residential, tibbe to tubular & even engraving, Triton is truly a cut above the rest!

Controlled by a 7" touchscreen, the Triton Plus provides step-by-step guidance throughout each of its features, making it one of the easiest key cutting machines to operate. Though its core operations have been simplified, there are a host of other robust features for more seasoned users. Whether you're a novice or an old pro, the Triton Plus's full suite of key cutting features truly offer something for everyone.

The Triton Plus's one of a kind design has been adapted to support cutting 99% of all commercially available car and motorcycle keys, including single and double-sided, high security, tibbe (6 and 8-cut), and tubular. Custom search functions include the abilities to search by vehicle model, keyway, or IC card number.

Aside from its superior automotive capabilities, the Triton Plus also contains a comprehensive database of commercial & residential keys and can even generate dimple cut keys. The integrated, proprietary key code database on the Triton Plus supports key cutting directly by code for most automotive keys, streamlining your workflow and eliminating the need to reference other code sources.

The Triton Plus's direct duplication feature traces and cuts unknown keyways for those rare instances you have an original key and a compatible blank but no space and depth information. The advanced key tracing feature will also account for wear on known keyways and automatically round off to meet original key specifications or cut to a perfect match if that's what you desire. You can also create custom key profiles that will allow you to input your own space and depth info and tether it to the keyway of your choice. In short, the Triton Plus has you covered whether or not you have a key code in-hand.

2-Year Parts and Labor Warranty   YOU HAVE TECH SUPPORT!

MaxiIM IM608

MaxiIM IM608 is the most advanced and unique all in one key programming and diagnostic tool that combines advanced key programming, all systems diagnostics, and advanced services in one Android based 10.1″ touchscreen tablet. It is equipped with XP400 key programmer and MaxiFlash ECU programmer to provide complete coverage of IMMO and programming functions. IM608 provides you with all special functions to quickly diagnose all modules for the majority of the makes and models on the market.

Features:
- Samsung Exynos 5260(2GB ROM)
- 10.1″ 1024x768 LCD capacitive touchscreen
- Internal reliable 64GB Memory
- Android Operating System for fast boot-up and multitasking
- Powerful combination of key programming/all system diagnostics/advanced maintenance services
- Smart Mode for guided and automated key learning
- Expert Mode for advanced key learning
- Read PIN/CS (all key lost) , key generation, key learning, remote learning
- IMMO ECU reset/adaptation, refresh/coding
- Transpronder read/write, EEPROM/MCU read/write
- Powerful OE level diagnostics for more than 80 US, Asian and European makes and models
- Advanced maintenance services including EPB, DPF, SAS, Oil reset, BMS and TPMS sensor ID relearn

COMPARISON CHART

IMMO

	MaxiIM IM508	MaxiIM IM608
Smart Mode (Guided and Automated Key Learning)	●	●
Expert Mode (Advanced Key Learning)	●	●
Auto Detect Make/Model/Year/System	●	●
Read PIN/CS (All Key Lost)	●	●
Key Generation	●	●
Key Learning	●	●
Remote Learning	●	●
IMMO ECU Reset/Adaptation	●	●
IMMO ECU Refresh/Coding	●	●
Backup/Restore IMMO Data	●	●
BENZ 3rd Generation IMMO Add Key, All Key Lost, Key Learning		●
BMW FEM/BDC Key Learning and ECU Adaptation	●	●
BMW CAS4/3/2 Key Learning	● (CAS4 compatible when XP400 connected)	●
VW/Audi MQB (VDD & JCI) Add Key, IMMO V A4/A5/Q5 2015+ Key Learning		●
VW/Audi/Skoda/Seat IMMO III/IV/V Add Key, All Key Lost	●	●

Programming

	MaxiIM IM508	MaxiIM IM608
Key Read/Write	●	●
EEPROM Read/Write	●	●
MCU Read/Write	Basic	Advanced
ECU Read/Write	● When XP400 connected	●
MC9S12 Encryption Chip Read/Write	● When XP400 connected	●
IC Card Read/Write	● When XP400 connected	●
Mercedes Infrared Key Read/Write	● When XP400 connected	●
Remote Frequency Detect	● When XP400 connected	●
Support PC	● When XP400 connected	●

OE-Level Diagnostics

	MaxiIM IM508	MaxiIM IM608
All Systems Diagnostics for over 80 Makes		●
AutoVIN/AutoScan	●	●
Read/Erase Codes	●	●
View, Record, Playback Live Data	●	●
View Freeze Frame Data	●	●
Shop and Data Manager Applications	●	●
MaxiFlash JVCI ECU Reprogrammer (Bluetooth/USB cable)		●

Advanced Service Functions

	MaxiIM IM508	MaxiIM IM608
Complete Service Functions		●
Oil Service Reset	●	●
Parking Brake Pad Relearn after Replacement	●	●
Steering Angle Sensor Relearn	●	●
Battery Register and Reset	●	●
Diesel Particulate Filter Regeneration	●	●
TPMS Sensor ID Relearn	●	●
ECU Coding		●

Features

	MaxiIM IM508	MaxiIM IM608
Touchscreen	7-inch	10.1-inch
Resolution	1024x600	1920x1200
Processor	Quad-core processor	Hexa-core processor
Memory	32GB	64GB
Camera		8.0 Megapixel
Built-in Rechargeable Li-ion Battery	5000mAh	15000mAh
Internet Updatable	Wi-Fi	Wi-Fi
Multilingual Support	●	●

Note: Some listed functions are manufacturer dependent. Consistantly update MaxiIM for current vehicle coverage. Update software regularly for most accurate tool features.

MaxiIM IM508 AUTEL®

MaxiIM IM508 is a fast, easy-to-use, and ultraportable immobilizer and key programming device. The Android-based touchscreen tablet features a powerful quad-core processor, intuitive design and straight-forward interface. Equipped with the XP200 key programmer, IM508 is capable of providing extraordinary service functions for the immobilizer system. Together with the ability to quickly diagnose all modules of the majority of the makes and models on the market, IM508 provides you with superior special functions. IM508 is the perfect solution for shops and technicians who demand affordable and powerful IMMO and diagnostic services.

Features:
- Powerful Cortex-A9 processor, Android Operating System
- 7" 1024x600 LCD capacitive touchscreen
- Powerful combination of key programming/all system diagnostics/advanced maintenance services
- Smart Mode for guided and automated key learning
- Expert Mode for advanced key learning
- Read PIN/CS (all key lost) , key generation, key learning, remote learning
- IMMO ECU reset/adaptation, refresh/coding
- Transpronder read/write, EEPROM/MCU read/write
- Powerful OE level diagnostics for more than 80 US, Asian and European makes and models
- Advanced maintenance services including EPB, DPF, SAS, Oil reset, BMS and TPMS sensor ID relearn

G-BOX2 AUTEL®

The Autel G-BOX2 is an adapter compatible with Autel's IM508 (with Purchase of XP400 programmer) and IM608 Key Programming tablets used to aide in the programming keys for Mercedes DAS3 CAN EIS/EXS in an ALL Keys Lost situation. The G-Box2 also supports DME/DDE ISN Reading and Writing in Boot Mode on applicable BMW vehicles. Bench Method is also supported. All Keys Lost password calculations are 4x to 8x faster. Moreover, the number of insertions and removals of W216 and W164 EISs after the year 2009 is reduced to zero, greatly simplifying the operation steps. It can be used in Boot Mode or Bench Method. G-BOX2 needs to be used with the Autel IM508 or IM608 for reliable performance.

- 8X times faster password calculation for W172, W204, W207
- 4X times faster password calculation for W209, W211
- No more repeated insertions and removals of IR simulator for 10 types of EIS
- Passport reading for 9 type EIS when all keys lost on vehicle
- BMW DME/DDE ISN reading for 20 types (EDC17, MEVD17, MSV90, MSD87, etc)
- VAG ECM immo data reading & data synchronization for 18 types (MQB EDC17, MED17, etc)
- XP400 may be required for certain functions Support Mercedes All Key Lost
- BMW DME Reading Compatible with IM608 & IM508
- Read / Write Bosch engine ECU on BMW F classis Benz vehicles with DAS3
- CAN EIS/EZS in AKL Read / Write Bosch engine ECU on VW MQB

IMPKA Expanded Key Programming Accessories AUTEL®

IMKPA is a Key Programming Adapter Kit, compatible with the XP400Pro Key & Chip Programmer. Includes 12 adapters for the XP400Pro that enable Read/Write/Erase for Mercedes Benz ESL_W209 / W906 Data, Mercedes Benz NEC Key Learning, BMW EWS3 Key Learning and Volkswagen/AUDI/BMW/Benz Key Unlock. Compatible with the IM608 and IM508 with XP400Pro.

MaxiIM KM100   **AUTEL**®

MaxiIM KM100 is an advanced key and immobilizer touchscreen tablet capable of smart key creation and IMMO learning via OBD. This 5.5" Android touchscreen tablet with Bluetooth VCI can program the Autel IKEY as a smart key replacement for more than 700 vehicles and offers IMMO programming capability for multiple vehicle brands including BMW, Volkswagen, Toyota, Honda, and General Motors. Additional innovative features include key renewal and Transponder Editing of 20 supported protocols.

Features:
- Programs Autel's IKEY universal key as smart key replacement for more than 700 vehicles
- Extensive IMMO Key programming coverage including BMW, Volkswagen, Toyota, Honda, and General Motors
- One-Minute Key Generation
- Chip Read and Write, Cloning and Frequency Detection
- AutoVin vehicle identification to ensure accuracy
- Simple User Interface with Concise Instructions
- Powerful Android-based tablet with 64 GB memory and long lasting rechargeable battery

Dimensions (WxHxD)	200mm(7.9") x 89 mm (3.5") x 22 mm (0.87")
Weight	352.7g (0.8 lb)
Screen	5.5" screen with 1280 x 720 resolution
Processor	Rockchip PX30 (4x ARM Cortex-A35 1.5GHz)
Operating System	Android™ 9.0
Memory	2GB RAM/64GB on-board memory
Camera	8 megapixels
Connection	Wi-Fi, Bluetooth 5.0, USB 2.0 type C
Battery	4950mAh lithium-polymer battery
VCI	V200
Input	5V/2A
Sensor	Ambient light sensor
Audio Input/Output	MIC: supported Speaker: supported
Operating Temp	-10 to 45°C (14 to 113°F)
Storage Temp	-20 to 60°C (-4 to 140°F)

IKEY **AUTEL**®

The Autel IKEY is a universal programmable smart key that can be programmed to replace smart keys for more than 700 vehicles including those made by BMW, Hyundai, Nissan, Chryslers, Ford, Honda, General Motors. The IKEY is OE-quality, multi-frequency (315M/433M and 868M/915M) programmable smart key that supports two to seven button configurations and features a premium battery. Use the KM100 tablet to program the IKEY for supported vehicles in as little as one minute.

Features:
- Programmable smart key replacement for more than 700 vehicles
- Compatible with systems using 315M/433M and 868M/915M frequencies
- Supports ultra-long range (40 meters/130 feet) frequency transmission
- Superior, OE-quality smart key that meets or exceeds industry and regulatory standards
- Multiple Style and Series options available soon

AE TOOLS &COMPUTERS IS AN AUTHORIZED **AUTEL**® DISTRIBUTOR

YOU HAVE TECH SUPPORT!

| Appearance	8 series
Battery	CR2032/CR2450
Battery Life	>1 year
Number of Buttons	2-7
Working Frequency	315M/433M or 868M/915M
Power Consumption	<6.5 uA (standby)
Operating Temp	-10 to 60°C (14 to 140°F)
Storage Temp	-20 to 70°C (-4 to 158°F)
Warranty	1 year

AutoSmart 2021 Foreign & Domestic Book Set

When it comes to originating keys to automobiles, there just isn't anything like AutoSmart. Access over 1,000 pages of the best Auto information, from key blanks to code locations, to tumbler charts, to progression charts, to making first key, any locksmith whether a veteran or a beginner needs this book on a daily basis. It would be too difficult to try and remember every tidbit about every car. Just reach for the AutoSmart!

When the customer is on the phone, why guess on what it will take to get keys made to their car, when you can have this information at your fingertips and be able to quote the job correctly. The bottom line is this is the set of books you need!

NEW in 2021
- Completely re-designed for a whole new look that combines the features of AutoSmart and the Transponder books.
- All the info for specific vehicles is found together, no more having to go from section to section.
- Expanded Transponder & Cloning information. An expanded list of programmers and their applications.
- Updated with the car models and info through 2021. Audi, BMW, Volkswagen sections greatly expanded. Acura, Honda, Hyundai, KIA, Subaru & Toyota sections also expanded.
- Hundreds of pictures of Remotes, Remote Head Keys, Proximity Fobs and Keyblanks added to really give you the full picture of what you are dealing with.
- Now even easier to use. Look up the car in the table of contents by manufacturer and go directly to that section! Once at the specific car section - you will see the Keyblank Application info along with remotes or proximity fobs, their part numbers and associated FCC info. Next, you will see the Space & Depth info. Followed by the Transponder section with several different cloner types and that is followed by 9 different key programmer brands. The making first key section is there with a tumbler chart. Also, there is an application table for Strattec parts if applicable.
- Hard plastic covers add to the durability and lifespan of the books.
- All three books for one low price.
- All the components that make up this book are sourced from small businesses throughout the United States.
- This product is restricted to locksmiths and others in the automotive security business. We will require proof that you are in the automotive security business before sale is complete.
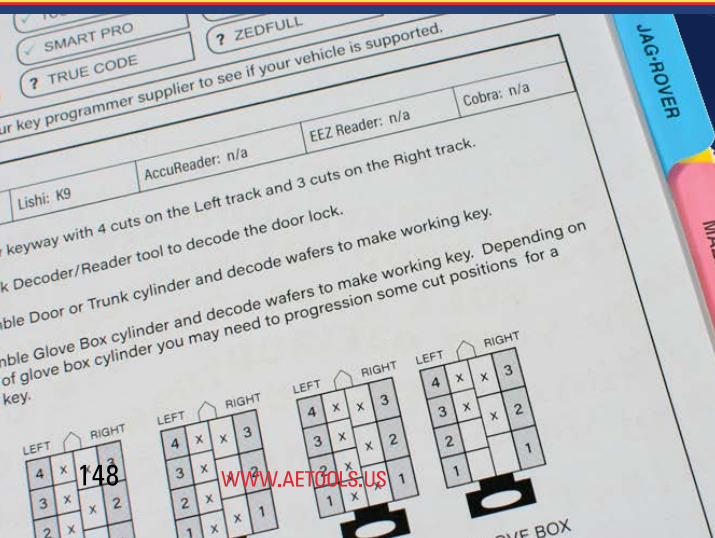
THE LATEST AUTOMOTIVE LOCKSMITH INFORMATION
AT YOUR FINGERS!

We do more than just offer keys. We have been working in the locksmith industry for more than 30 years (exclusively automotive since 1994). You can have confidence that we will help you get the job done!

We are also an industry leader in providing solutions when all keys have been lost!
We can get your car up and running for a fraction of what it will cost at the dealer. We are the ONLY source with a solution for any Saab when all the original keys are gone. Whether you have a Saab 900, Saab 9-3, Saab 9-5 or a Saab 9-3 Sport, we can help without towing or buying new equipment for your car. Check out our lost key sites for more info:

LOST SAAB KEYS

LostSaabKeys.com, LostToyotaKeys.com, LostLexusKeys.com, LostSmartKeys.com, LostBMWkeys.com, LostVolvoKeys.com

PROGRAMMING SOLUTIONS
We offer many other services such as Cummins Deisel PCM security resets and PCM vin re-writes, Smarty or RaceME Tuner resets, Hyndai/Kia cluster mileage programming, and more!

No Key Machine? No problem!
Ask about our key cutting service!

ClearCom TECHNOLOGIES

ClearComKeys.com is a wholesale key supplier with over a thousand products spanning the past 10+ years.

- We certify many of our parts before shipping.
- We guarantee they will work right the first time.
- Search by make/model/year or by OE part number to get exactly the right part.
- Knowledgeable staff - if you don't see what you're looking for, just give us a call!

We at ClearCom want to make the process of ordering keys as painless as possible. Time is money in the repair industry. We're committed to providing you the part you need when you need it and making the process of ordering keys as painless as possible. Time is money in the repair industry. We're committed to providing you the part you need when you need it!

ClearComKeys.Com
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email: info@clearcomtech.com

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keytechu.clearcomkeys.com

KEY TECH U

149

100 Amp Variable Voltage Programming Power Supply

Whether you are reprogramming on board or off board, you must be sure that the power supplied to the module does not drop below proper voltage. Some reprogramming operations with the key-on will turn on cooling fans, fuel pumps, and other components that will cause the battery to drain faster than normal. During reprogramming there is a risk of having the operation fail if voltage falls below the proper operating range. Sometimes a failed operation can be recovered, but there is a chance that failed reprogramming could ruin the control module. To mitigate this risk, and to avoid pulling fuses that prevent battery drainage, put a high quality AE Tools & Computers Variable Voltage Programming Power Supply on the vehicle during reprogramming. This Power Supply features adjustable voltage, and an LCD display that shows it's current settings. 100 Amp, variable voltage unit.

CanDo OBD Aid Breakout Box

The CanDo OBD Aid allows you to safely check the OBDII DLC port to diagnose exactly what is causing communication errors. It is a fast and easy way to properly check your DLC port prior to scan tool communication or ECU flashing.

Features:
- Conduct a safety check on OBD II DLC port prior to connecting your scan tool or flashing an ECU
- Warning beep will alert you when the voltage falls below 12V or when it rises above 15.2 V while programming or coding
- Provides a quick check on the alternator charging conditions by voltage monitoring
- Make voltage/frequency measurement at the pins during diagnosis communication with ECU when the engine will not start
- Detection of protocol and data communication during diagnosis and re-flash on the ECU
- Colored LED lights display when a protocol is detected, grounds and voltage
- Works with 12V/24V systems
- Bench flashing of ECU's
- Allows remote Key FOB programming via pin jumping

Flip Key Blade Pin Removal Tool

With this flip key vice tool, you can easily remove roll pins from most remote key fobs safely. It also allows you to insert roll pins to change blades.

JMA EVO XPERT Cloner

TThe JMA transponder technology range now includes a new duplicator machine, EVO XPERT, the "all-in-one" solution for cloning car keys. This new cutting-edge device boasts two essential features for professionals: an ability to clone transponders and pre-program remote control keys; and an ability for the professional to take it with them wherever they need to go.

- 2 connections: USB 2.0
- Bluethooth 4.0
- DC connector: 5.5x2.5x11mm, C+.nality (Reset/Set)
- 1 PS2 connector for Car Remote programation (KRC100 Remotes).

AE IST   (Invisible Signal Tester)

The AE-IST fully tests:

Transponder Keys
Remote Control Operations
External Vehicle Antenna Transmitters
Internal Vehicle Antenna Transmitters
Transponder Antenna Transmitters

Features:

Standard Transponder Key testing
Infra Red (IR) remote control testing
Radio Frequency (RF) remote control testing
Proximity/Smart Key Testing
Proximity/Smart Vehicle Antenna Transmitter Testing
Proximity/Smart Key Signal Amplitude Level Indication
Transponder Frequency Indication
Oscilloscope waveform function (FAST & SLOW)
Proximity/Smart key system scan modes
Audible signal indication
Transponder Vehicle Antenna Testing

Transponder Coil Ring Detector

This key ring sized device can detect the power transmitted by the cars immobilizer system. This can be useful in diagnosing system faults or checking to see if the car is immobilizer equipped. If there is no emitted signal it will help narrow the fault tracing path. There is no need to try programming a new key or component if the aerial is not working. To use, hold it beside the ignition key against the outer edge of the ignition lock as you turn on the switch. If the system is working, the bright LED light will illuminate when the immobilizer coil powers up to read the transponder key.
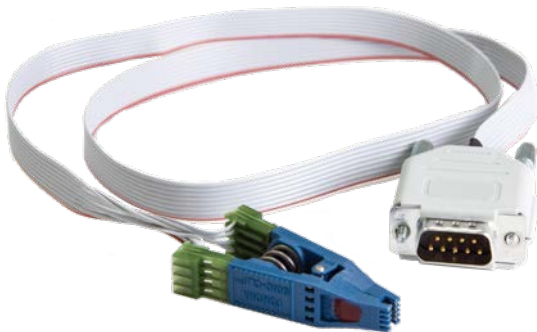
Keylogic GoKlip for DMAX

Locksmith's know how difficult it is to get a solid connection to the chip when performing a reflash. The sharp gold tips of the GoKlip allow you to easily penetrate the layer of varnish on a chip! Save yourself the time and stress of using the standard test clips, and reflash easily with the GoKlip!

DMAX Cable (EProm) with Replaceable Clip

This is the standard replacement cable for use with a DMAX when clipping to a chip to perform a reflash. Features a replaceable clip!

DMAX OBD II Cable

This is the standard replacement OBD II cable for use with a DMAX.

Keylogic GoKlip for EZ Flasher

Locksmith's know how difficult it is to get a solid connection to the chip when performing a reflash. The sharp gold tips of the GoKlip allow you to easily penetrate the layer of varnish on a chip! Save yourself the time and stress of using the standard test clips, and reflash easily with the GoKlip!

EZ Flasher Upgrade Kit

Upgrade Kit for the EZ Flasher.

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