

LAUNCH
Europe GmbH

X-431 EURO TAB III

Professional Diagnostics with oscilloscope, TPMS solution, and SRD function



Introduction

- X-431 EURO TAB III, based on Android 9 system, is a new high-end vehicle diagnostic device developed by LAUNCH. It passes on LAUNCH's advantages in diagnostic technology, such as wide car model coverage, powerful test function, abundant special functions and accurate test data.
- Integrated with Guided Diagnosis function based on LAUNCH electronic database, powered by HaynesPro.
- Smartlink C is equipped as standard VCI, supported with LAUNCH super remote diagnosis system, DoIP, Passthru, HD truck(HD software optional).
- Includes new LAUNCH O2-1 Scopebox to handle the sensor testing.
- 13.3inch HD display sunlight readable screen.
- New designed APK Interface for more practical functions.

Tablet information

- OS: Android 9.0
- CPU: 2.0GHz Octa-core
- Internal memory: 8GB
- Storage: 256GB
- Screen: 13.3" IPS:1920x1080 16:9
- Battery: 9360 mAh, 7.6V/71.1Wh
- Wifi: 2.4GHz and 5GHz
- I/O: USB TYPE-C x 1; USB Type-A x1; HDMI; DC
- Camera: Front 8MP, Rear 13MP
- Demension: 353 x 236 x 71 (mm)



Tablet information



VCI

SmartLink C

Function:

- Local Diagnosis VCI
- Remote Diagnosis VCI (LAUNCH SRDs)
- Compatible with DoIP
- Pass-Thru VCI
 - J2534
 - D-PDU
 - RP-1210
- Support both passenger car and HD vehicles (HD Software optional)



Pass-Thru

Pass-Thru device has standard API (application programming interface) that can be adopted by all car manufacturers, this interface standard is issued by SAE (Institute of Automotive Engineers) and authorized by the US Environmental Protection Agency (EPA) for automotive ECU reprogramming. The goal is to allow the independent aftermarket (IAM) to reprogram the ECU without the need for a special dealer-only tool.

Since the introduction of OBDII and leading up to modern Hybrids and EV's, computers and software in cars have been expanding at an exponential rate. In-car software is becoming one of the leading needs for service, and updating software may be the only way to fix some of these issues: drivability, fuel efficiency, power loss, fault codes, and durability of mechanical parts.

Pass-Thru connection

Smartlink C can be used as Pass-Thru device to reprogram ECU. The use of Pass-Thru functions requires users to install the Smartlink C driver on laptop. This driver is used to do the settings for Smartlink C. After that, users can purchase the reprogramming software from OEM's website and install the OE software on laptop. Smartlink C can connect the vehicle and OE software (laptop).



Note: To reduce reprogramming problems, please use the original cable from Launch.

The USB cable (Type B) for PC and 16 Pin extended cable for vehicle are included in packing box of Euro Tab III.

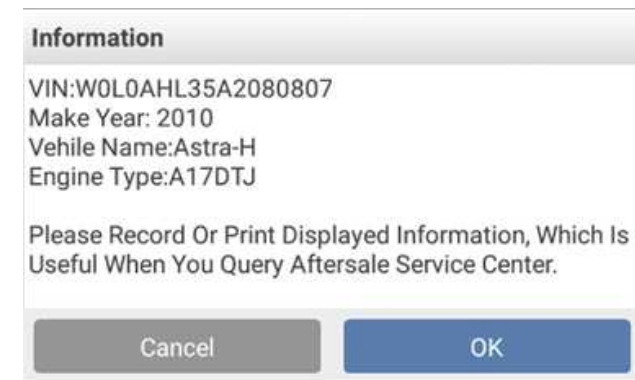
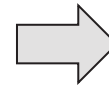
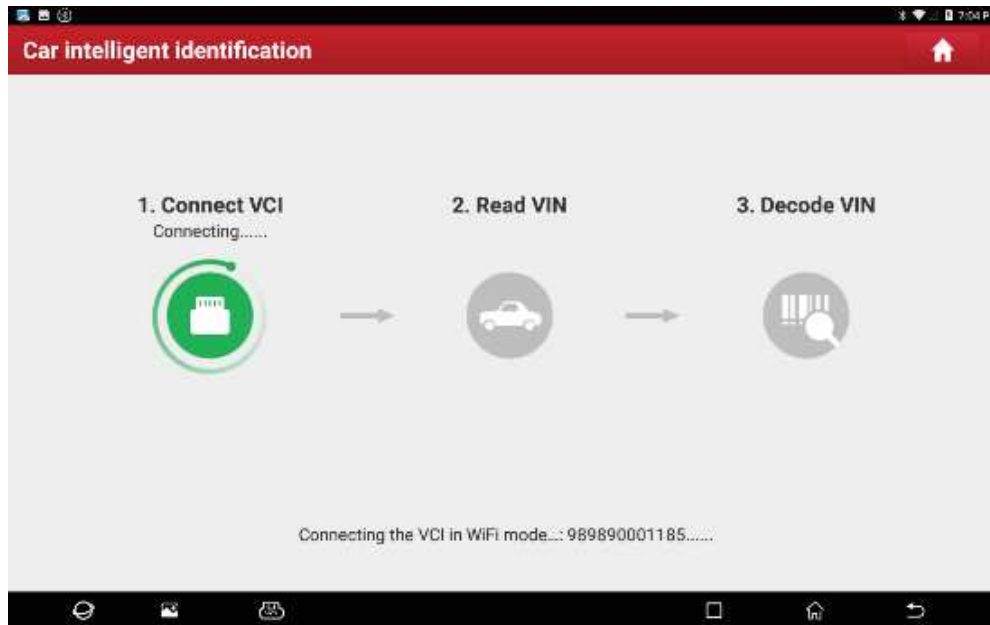
Comprehensive Diagnostic Functions



User-friendly software interface with comprehensive functions:

- Intelligent Diagnose for 100+ car make
- 33 Service/Reset functions
- ADAS function
- LAUNCH Guided Diagnosis function
- Diagnostic feedback
- Quicksupport
- One click software update
- More...

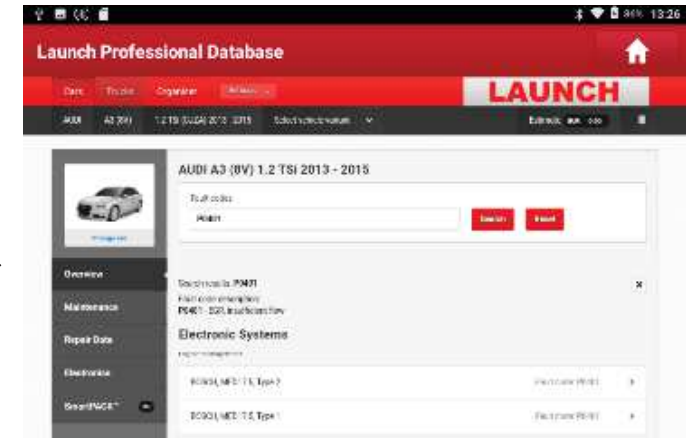
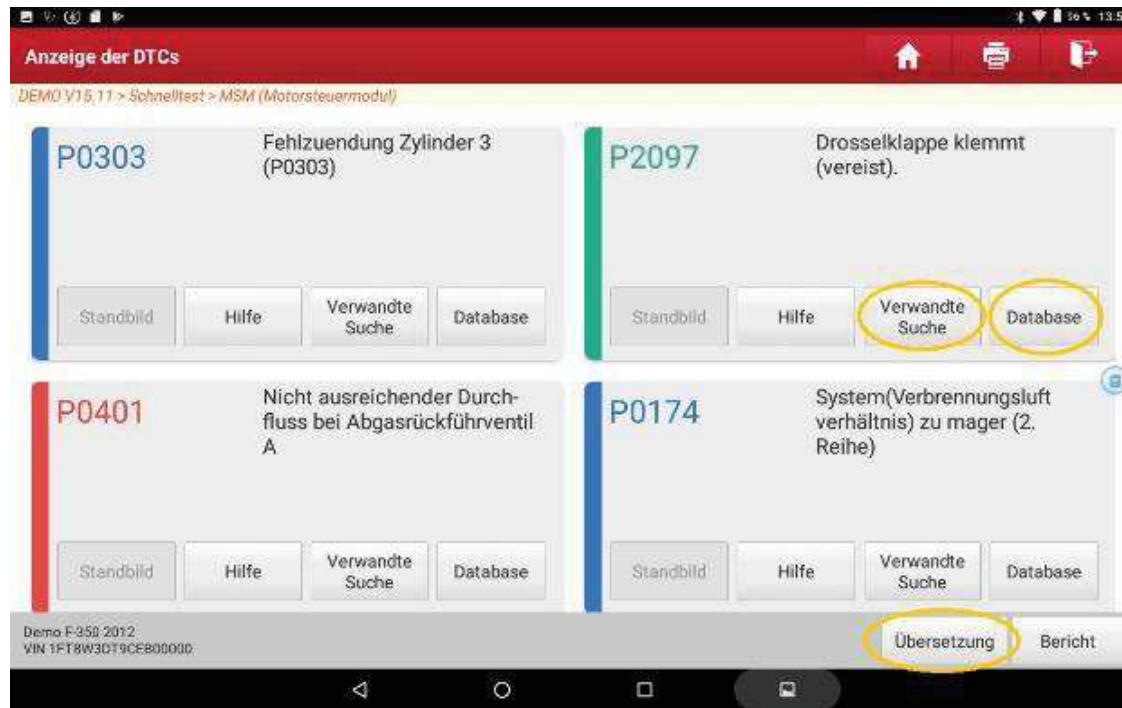
Intelligent Diagnose



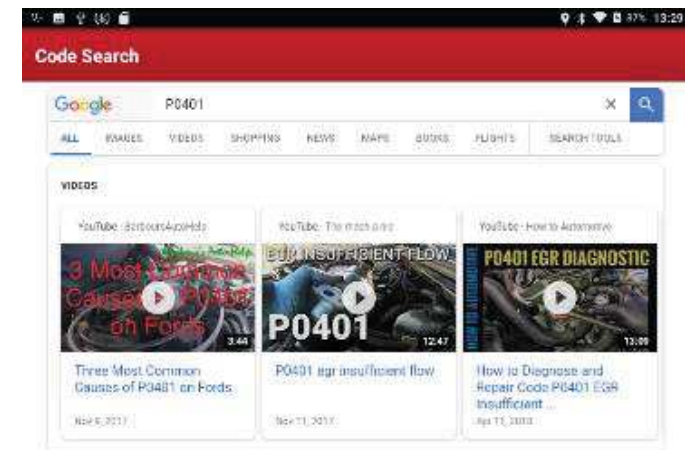
The vehicle model, manufacture year can be found automatically through the VIN number. This function is more convenient than manual selection.

DTC reading, translation and solution-search

- LAUNCH Guided Diagnosis function



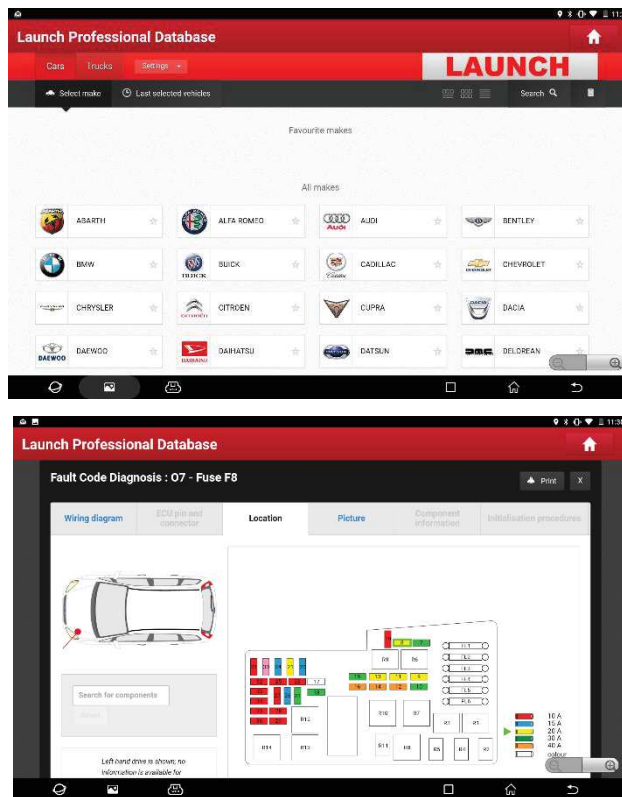
- Search the solution on Google



- Translating the DTC to your local language, with just one click.

Solution by Guided Diagnosis Process

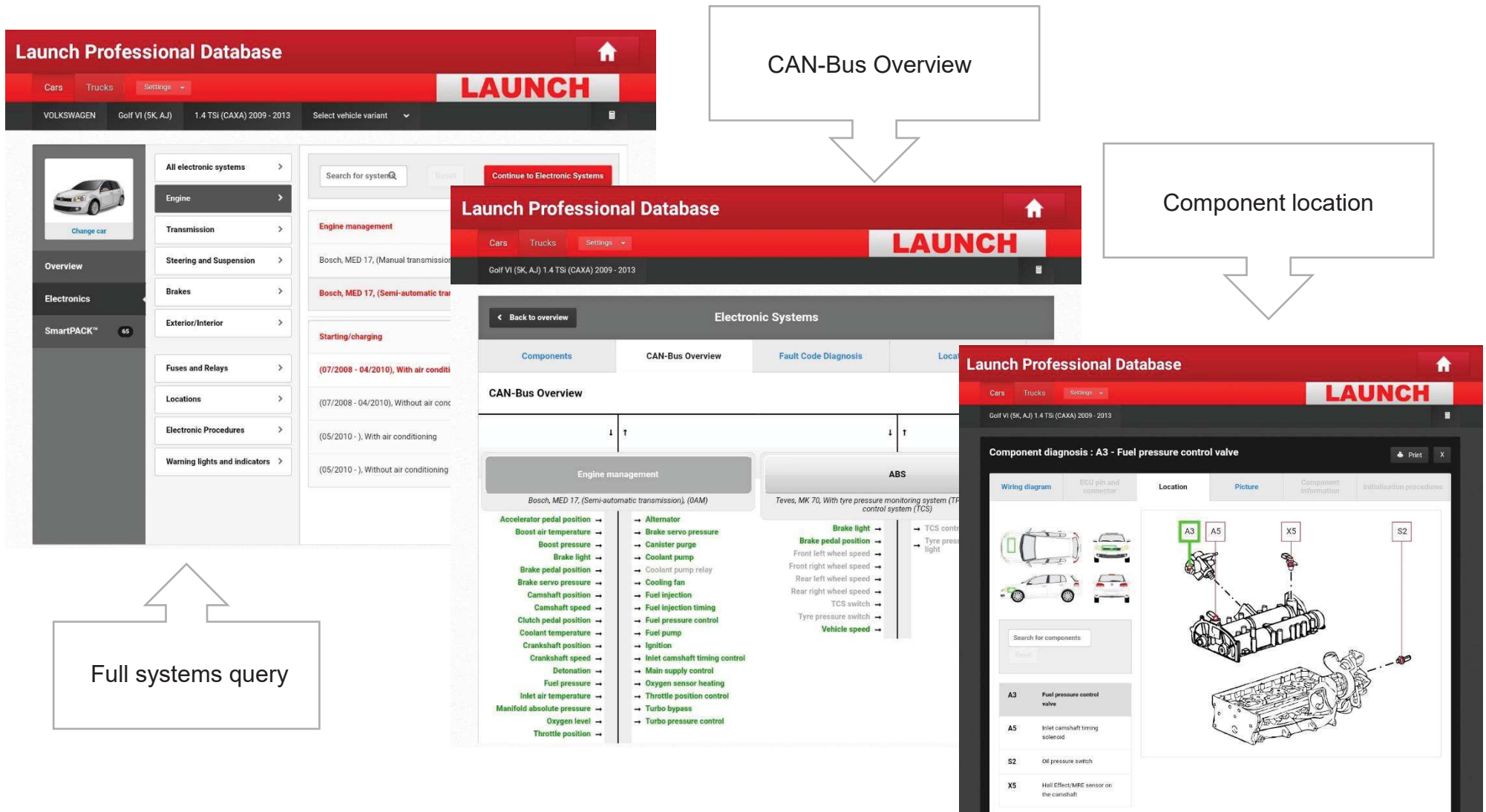
LAUNCH Guided Diagnosis function is integrated in X-431 EURO TAB III software, which will guide user from DTC reading, to the step-by-step testing, and to the final solution. This working method will save mechanic a lot working time and increase the efficiency dramatically.



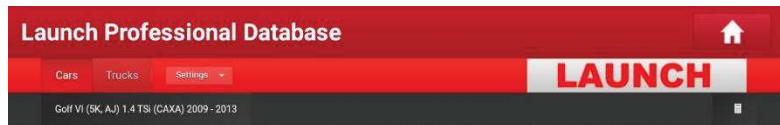
Features:

- Fuse and relay box locations and overview
- Wiring diagrams for engine management, ABS, ESP and air conditioning, door locks, windows, airbags, exterior lights,
- Component locations and information
- Fault codes (manufacturer and EOBD)
- Ground point locations
- Control unit locations
- Battery disconnection/reconnection procedures
- High-voltage circuit deactivation procedures
- Highlight functionality to trace corresponding wires and components

Solution by Guided Diagnosis Process

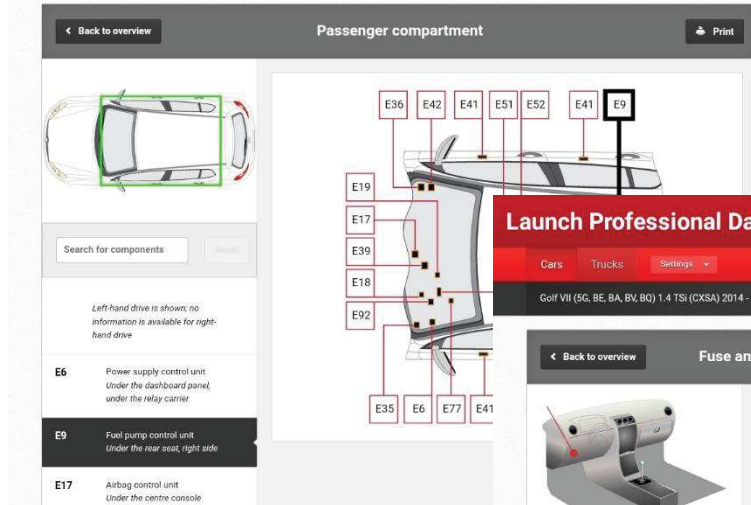


Solution by Guided Diagnosis Process

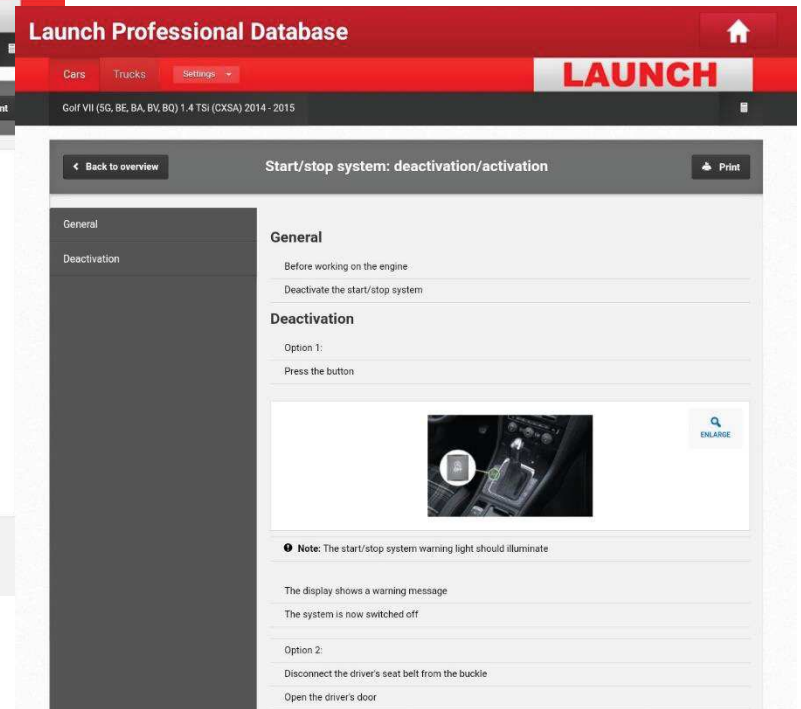
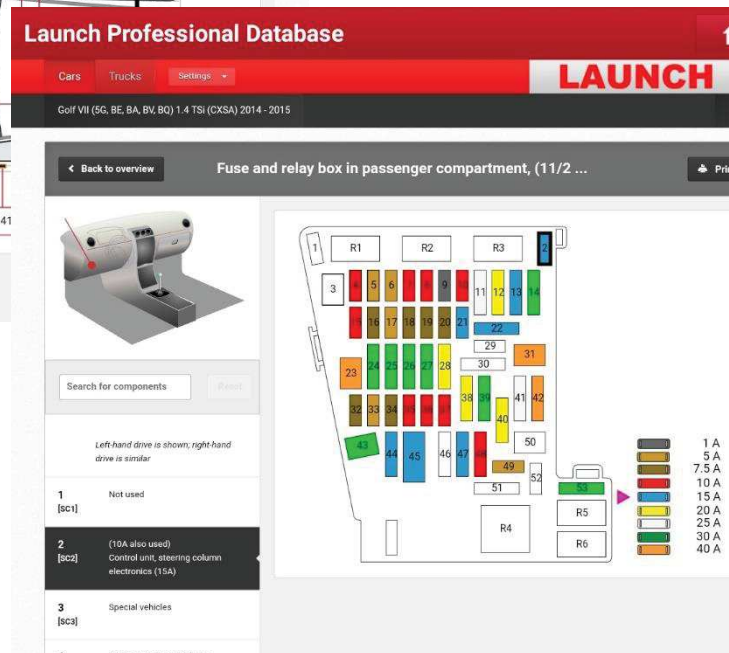


Fuses and relays with detail information

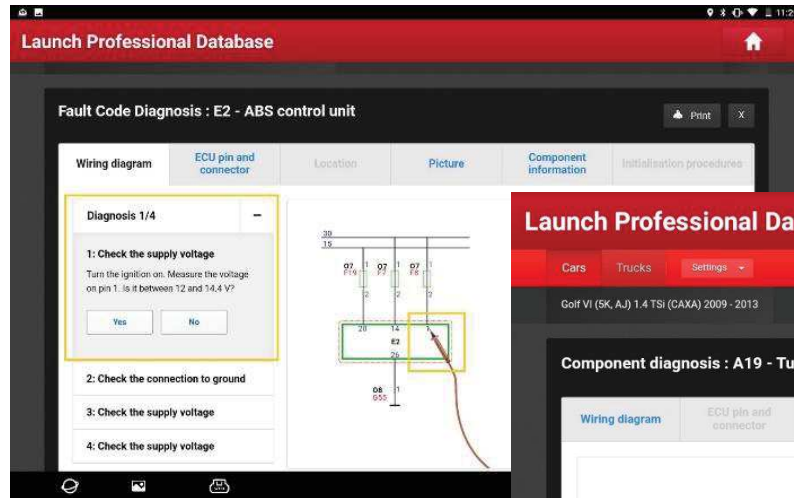
Electronic procedures



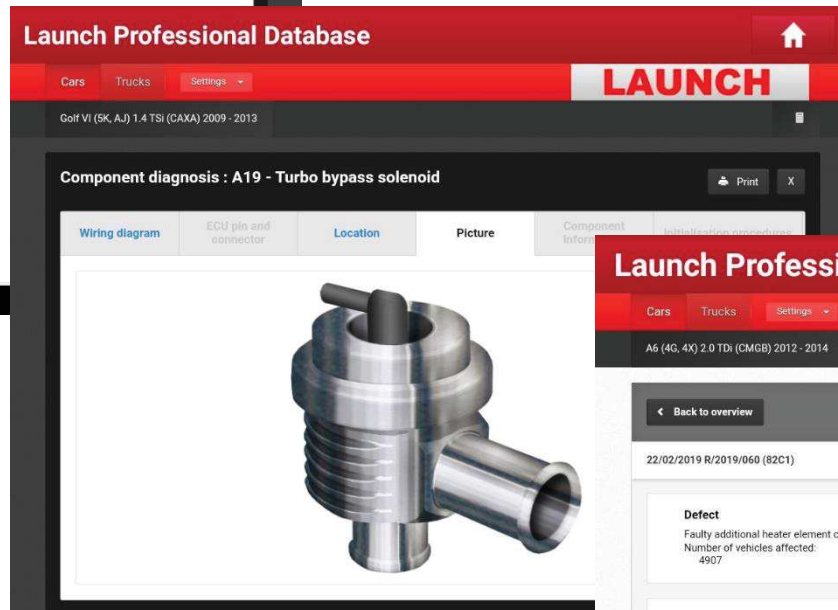
All control units locations



Solution by Guided Diagnosis Process

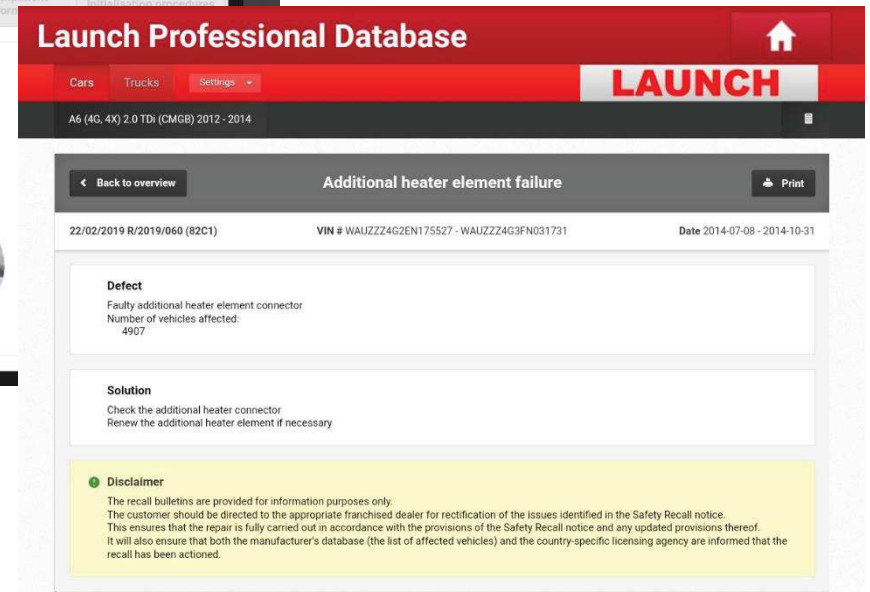


Step by step testing



Component picture

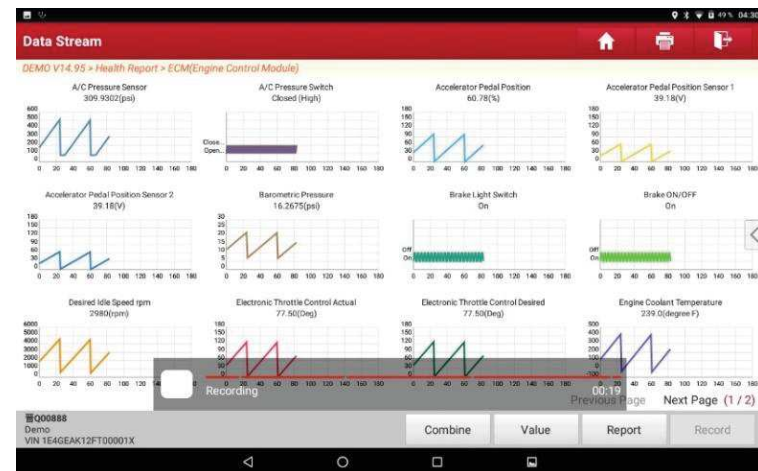
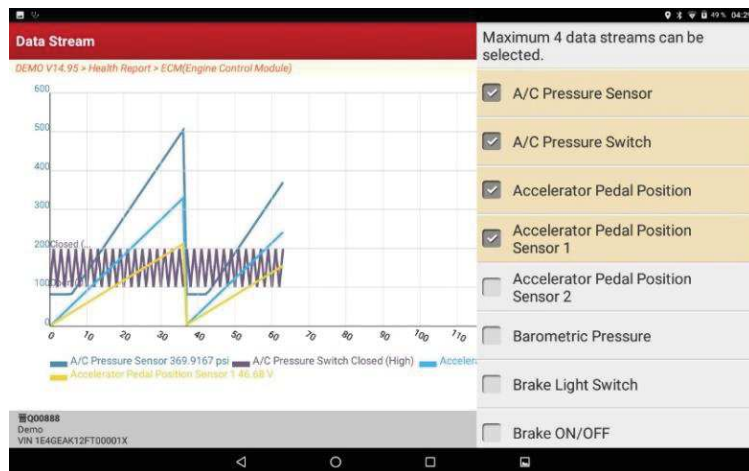
Suggested solution



Showing data stream in different formats

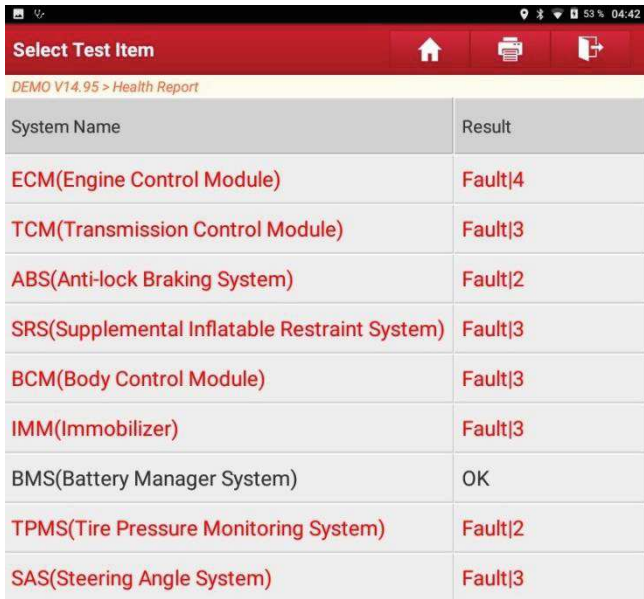
Data Stream				
DEMO V14.95 > Health Report > ECM(Engine Control Module)				
Name	Value	Standard Range	Unit	
A/C Pressure Sensor	361.9185	0.0 - 145.0	psi	
A/C Pressure Switch	Closed (High)			
Accelerator Pedal Position	70.98	0-100	%	
Accelerator Pedal Position Sensor 1	45.68	0-5	V	

- Actual value and standard Range
- Diagram
- Data recording

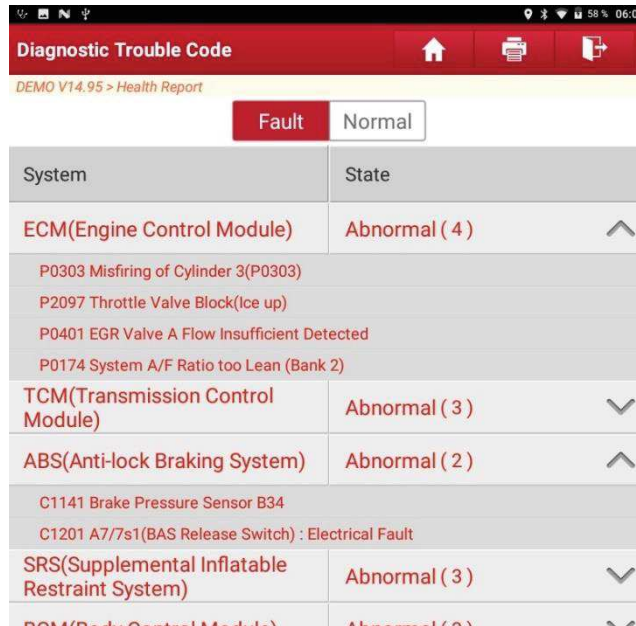


Clear Diagnostic Report

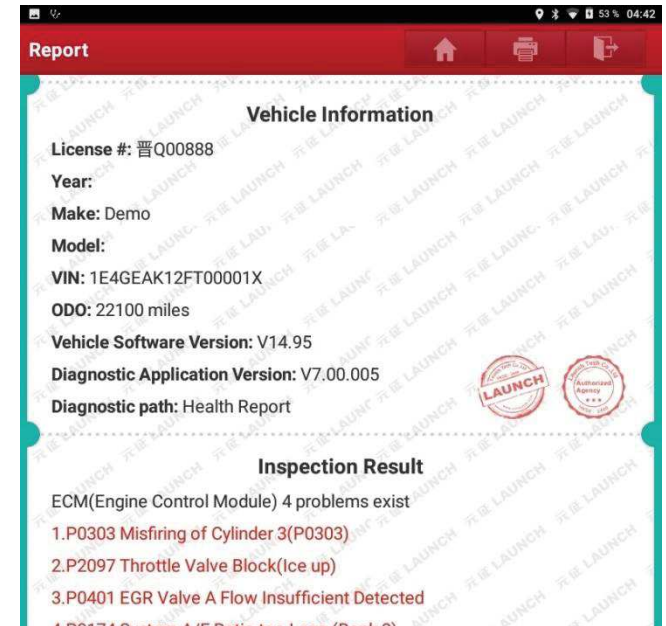
- Show DTC status of each ECU
- Save as screenshot and PDF file
- Easy to print or share



System Name	Result
ECM(Engine Control Module)	Fault 4
TCM(Transmission Control Module)	Fault 3
ABS(Anti-lock Braking System)	Fault 2
SRS(Supplemental Inflatable Restraint System)	Fault 3
BCM(Body Control Module)	Fault 3
IMM(Immobilizer)	Fault 3
BMS(Battery Manager System)	OK
TPMS(Tire Pressure Monitoring System)	Fault 2
SAS(Steering Angle System)	Fault 3



Diagnostic Trouble Code	
<input checked="" type="button" value="Fault"/> Normal	
System	State
ECM(Engine Control Module)	Abnormal (4)
P0303 Misfiring of Cylinder 3(P0303) P2097 Throttle Valve Block(Ice up) P0401 EGR Valve A Flow Insufficient Detected P0174 System A/F Ratio too Lean (Bank 2)	
TCM(Transmission Control Module)	Abnormal (3)
ABS(Anti-lock Braking System)	Abnormal (2)
C1141 Brake Pressure Sensor B34 C1201 A7/7s1(BAS Release Switch) : Electrical Fault	
SRS(Supplemental Inflatable Restraint System)	Abnormal (3)
BCM(Body Control Module)	Abnormal (3)



Report

Vehicle Information

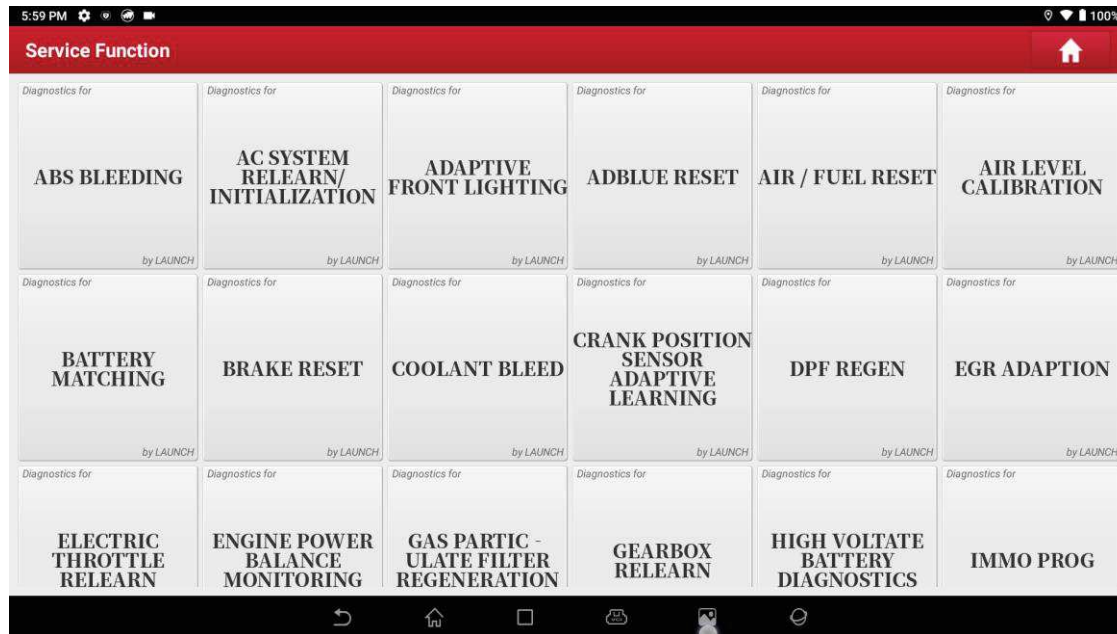
License #: 晋Q00888
Year:
Make: Demo
Model:
VIN: 1E4GEAK12FT00001X
ODO: 22100 miles
Vehicle Software Version: V14.95
Diagnostic Application Version: V7.00.005
Diagnostic path: Health Report

Inspection Result

ECM(Engine Control Module) 4 problems exist

- 1.P0303 Misfiring of Cylinder 3(P0303)
- 2.P2097 Throttle Valve Block(Ice up)
- 3.P0401 EGR Valve A Flow Insufficient Detected
- 4.P0174 System A/F Ratio too Lean (Bank 2)

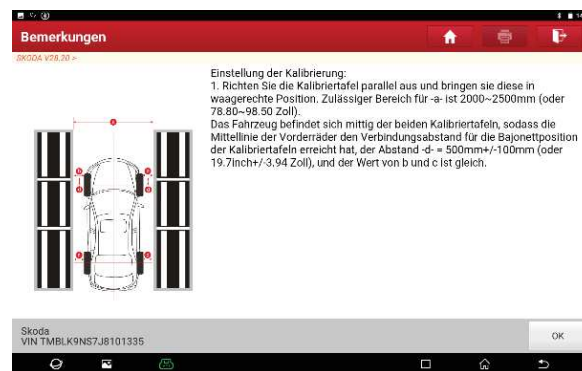
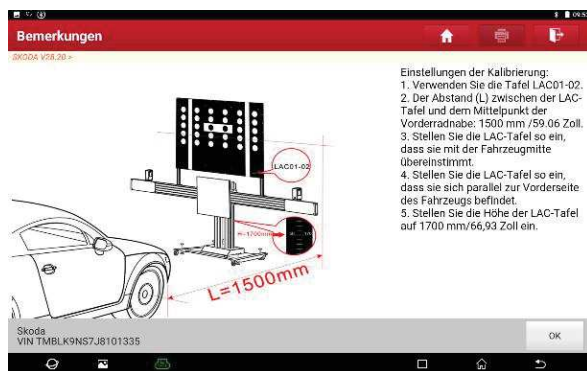
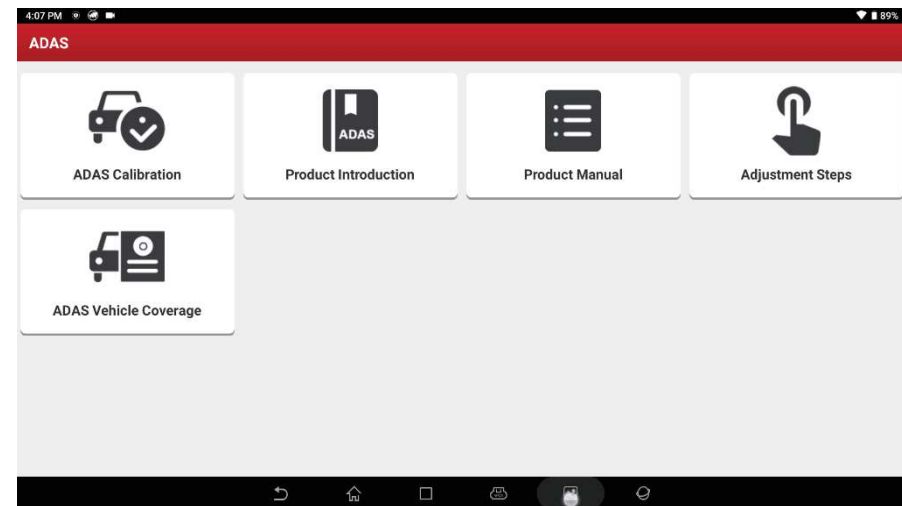
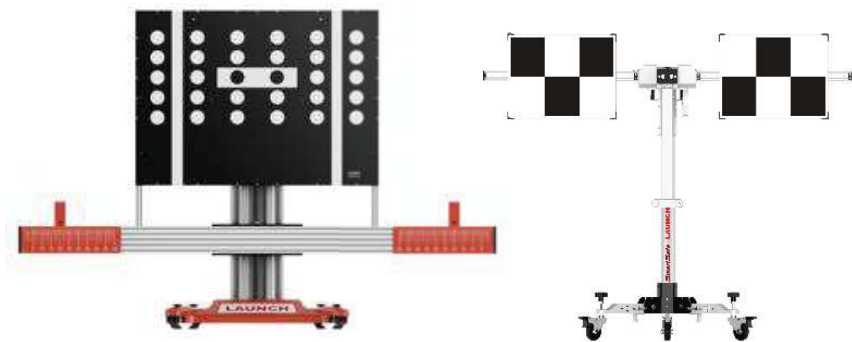
33 Service/Reset functions (Quick Access)



- Intelligent cruise control system
- Language change
- Motor angle calibration
- Nox sensor reset
- Oil maintenance reset
- Seat occupancy calibration
- Steering angle reset
- Start/stop reset
- Sunroof reset
- Tire reset
- TPMS reset database
- Transport mode
- Windows calibration
- Digital service (only german area)
- ABS bleeding
- AC system relearn/initialization
- Adaptive front lighting
- Adblue reset
- Air/fuel reset
- Air level calibration
- Battery matching
- Brake reset
- Coolant bleed
- Crank position sensor adaptive learning
- DPF regeneration
- EGR adaption
- Electric throttle relearn
- Engine power balance monitoring
- Gas particulate filter regeneration
- Gearbox relearn
- High voltage battery diagnostics
- Immo prog
- Immobilizer reset
- Injector coding

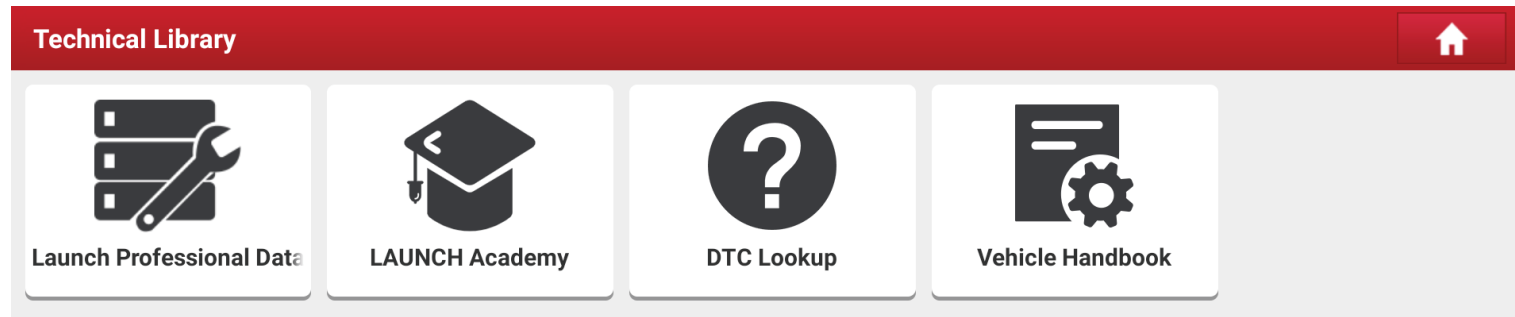
ADAS Function

The ADAS software for dynamic calibration is inclusive in EURO TAB III directly.
The static calibration can be activated and operated with extra purchase of LAUNCH ADAS Pro or ADAS Mobile.



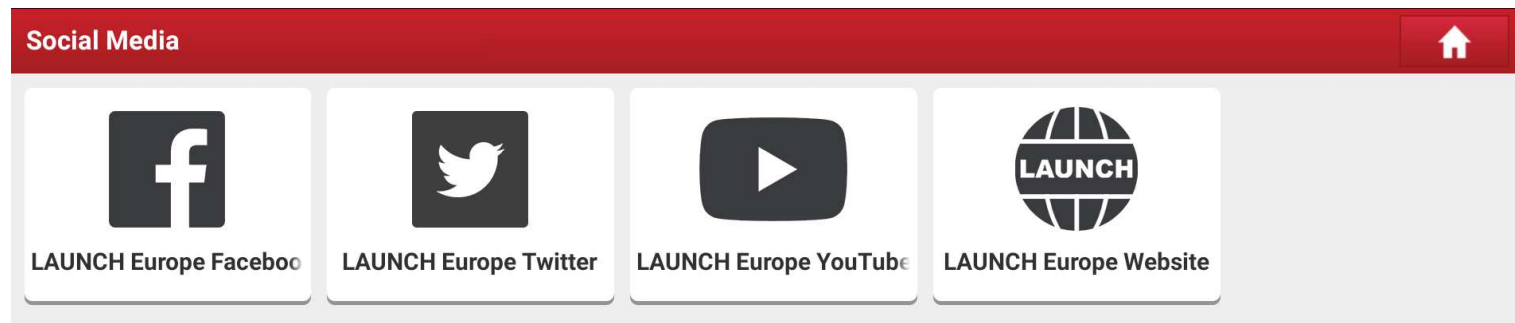
Technical Library

- Not only a diagnostic tool, but also learning materials



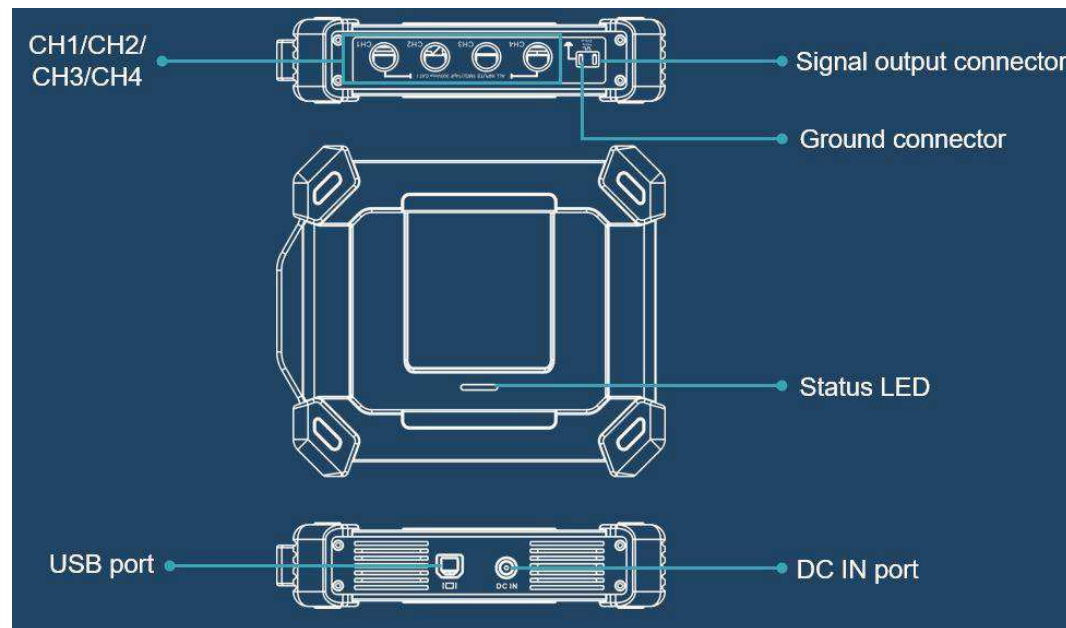
Social Media

- Get the new information from LAUNCH Europe at any time and participate in social media interactions



O2-1 Scopebox

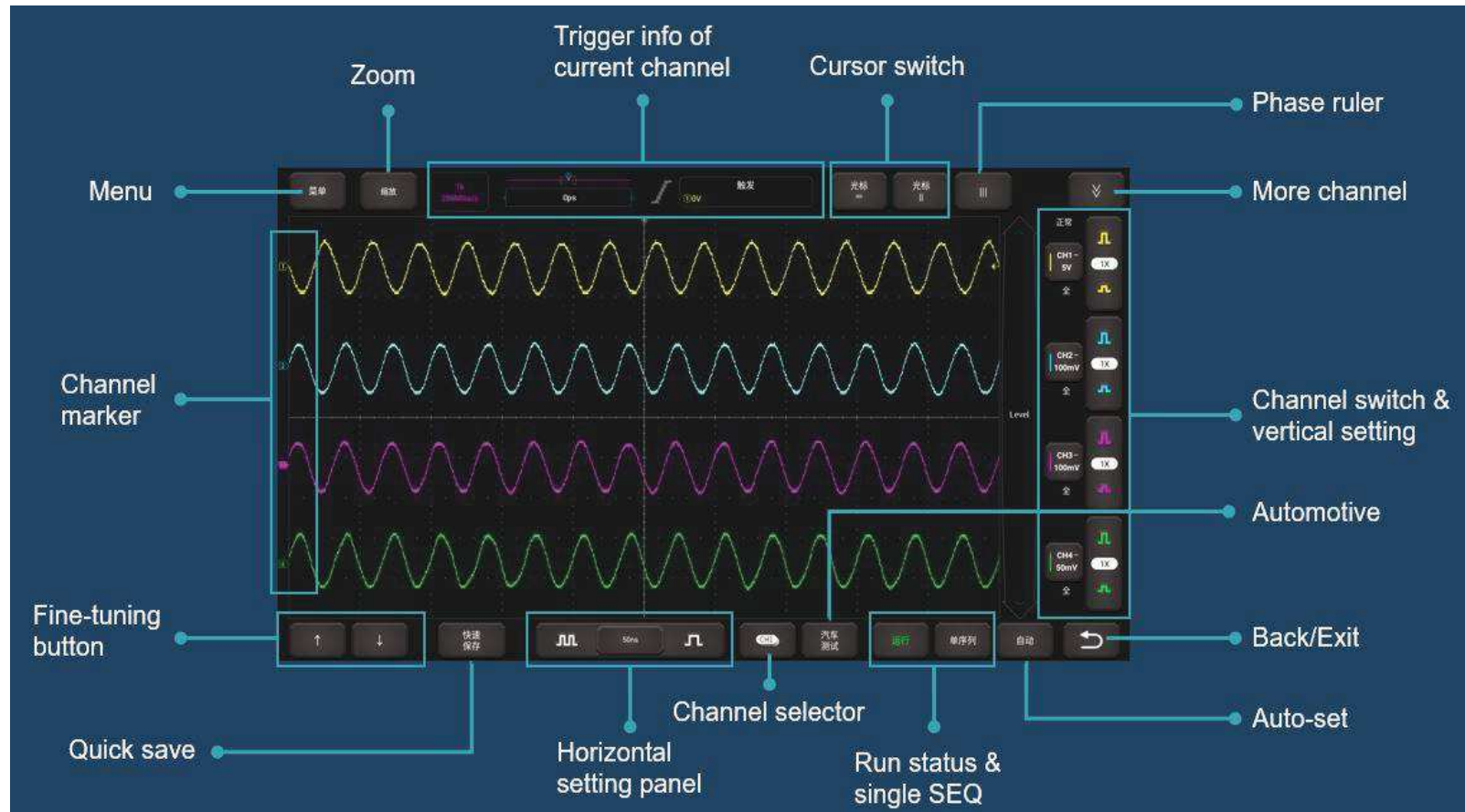
- The Automotive oscilloscope helps to quickly locate and evaluate the faults in automotive electronic devices and wiring.
- O2-1 Scopebox can not only capture the circuit signal quickly, but also slowly display the waveform to be observed and analyzed.
- It can record and store the tested signal waveform, which makes the failure analysis very convenient.



Technical Parameters

Item	Range	Item	Range
Channels	4	Acquisition mode	Normal
Bandwidth	100MHz	Line decoding	CAN, LIN
Rising time	≤3.5ns (typical)	Trigger type	Edge, Pulse width
Max. sample rate	1G (for four channels)	Trigger mode	Normal, Auto and Single SEQ
Input impedance	1MΩ±1.5%	Trigger Coupling	DC, Noise rejection
Storage depth	50M (for four channels)	Display	YT, Zoom, Roll
Vertical resolution	8bit	Roll mode	200ms/div~1000s/div
DC gain accuracy	± 3%	Auto set	Support
Vertical scale	5mV~10V	Auto measurement items	23
Vertical offset range	± 2.5V (in case of probe switch "x1", <500mV/div), ±120V (in case of probe switch "x1", ≥500mV/div)	Cursor	Horizontal cursor, Vertical cursor
Invert	Support	Power interface	USB port, DC IN port
Coupling	DC, AC	Data exchange via	USB
Timebase	50ns~1ks	Compatible operating system	Android
Timebase precision	20ppm	Automotive	Circuits, sensor, actuators, ignition

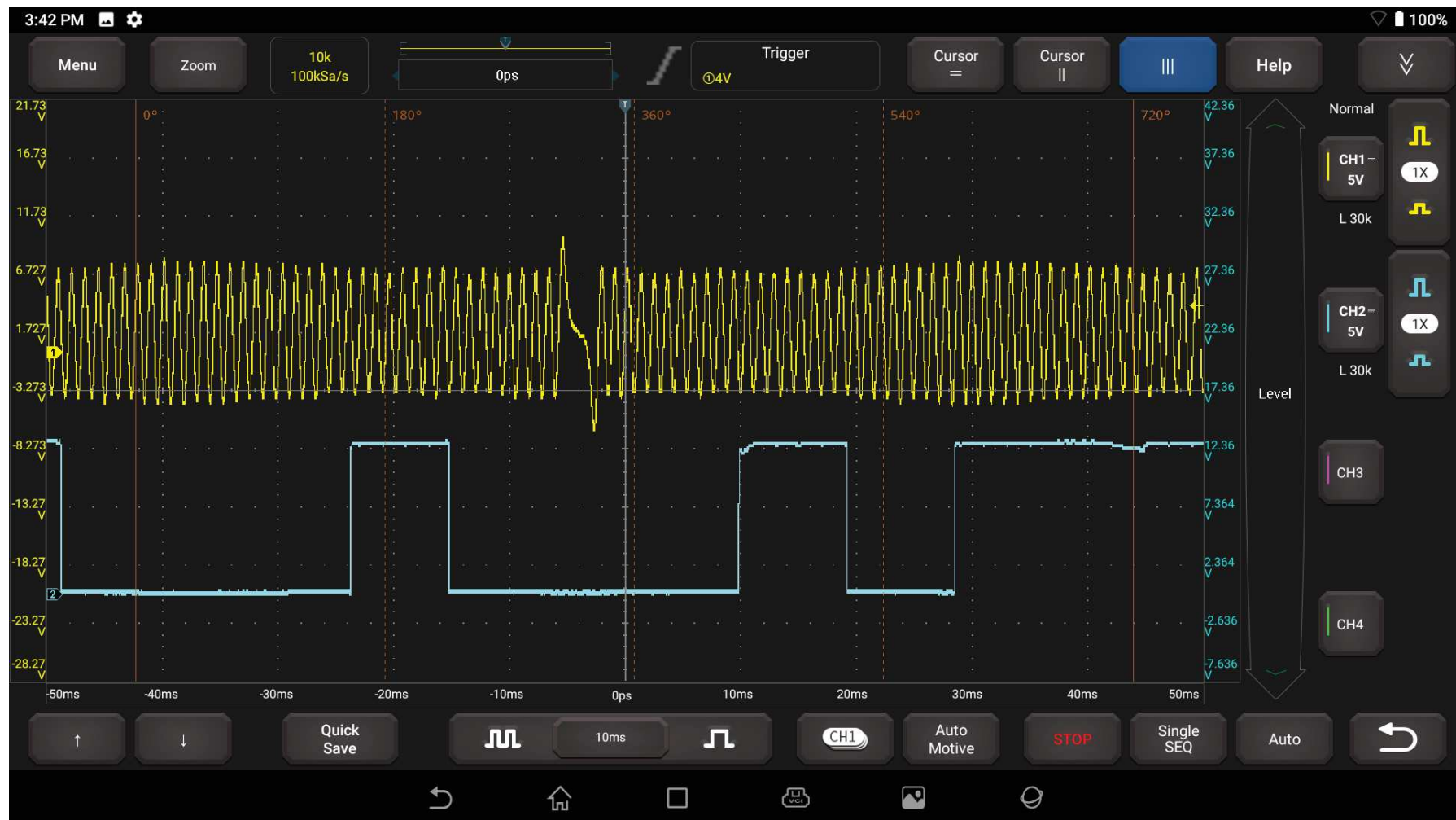
Main Menu



Ignition test



Camshaft and Crankshaft



Check sensor signal and DTC at same time



- Check the sensor signal without disconnect the VCI from OBD Port, just switch the software on the device to check sensor signal and DTC

HD Pack for trucks (optional)

Over 100 heavy-duty truck models inclusive



Europe



Asia



USA



Comparison



	X-431 EURO TAB II	X-431 EURO TAB III
OS	Android 7 closed	Android 9 opened
Processor	2.0GHz Octa-core	2.0GHz Octa-core
Internal memory/Storage	4GB/64GB	8GB/256GB
Display	10.1 inch, 1920x1200	13.3 inch, 1920x1080
J2534 Pass-Thru	Supported	Supported
Super remote diagnosis	Not supported	Supported
O2-1 Scopebox	Optional	Included
TSGUN & 4pcs TPMS Sensors	Optional	Included

Packing list

X-431 EURO TAB III	Q*
X-431 EURO TAB III Tablet	1
SmartLink C diagnostic connector	1
DBScar, BENZ-38 diagnostic connector	1
DBScar, BENZ-14 Diagnostic connector	1
DBScar, BMW-20 Diagnostic connector	1
MINI-HDMI line, 1m	1
DBScar, OBD I Adaptor BOX transfer line	1
Double clamp power line	1
Cigarette lighter line	1
Type A USB to Type C USB cable, 1m	1
SmartLink C connection cable, 1m	1
Network line (Blue) 15m	1
USB data cable Type A to USB Type B male, 1.2m	1
Power supply, British and EU Adapter	1
Fuse, AC250V / 5A, ϕ 5 * 20MM	4
Fuse, AC250V/5A 6*30mm	2

O2-1 Scopebox	Q*
O2-1 oscilloscope module	1
HT201 attenuator (extended metal BNC connector)	2
Four-channel oscilloscope multimeter probe head (red)	2
Four-channel oscilloscope multimeter probe head (black)	2
Four-channel oscilloscope Crocodile Chuck (red)	2
Four-channel oscilloscope Crocodile Chuck (Black)	2
Needle Set (colored 4mm Female+20 needle+2 Screw)	1
HT25 secondary ignition pick-up line (long metal BNC connector, including plastic tail)	1
HT30 test line (long metal BNC connector, including plastic tail)	4

TSGUN	Q*
TSGUN module	1
TMPS Sensor	4

Q*:Quantity