



Acartool VT00 Auto Scanner User Manual

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Acartool VT00 Auto Scanner



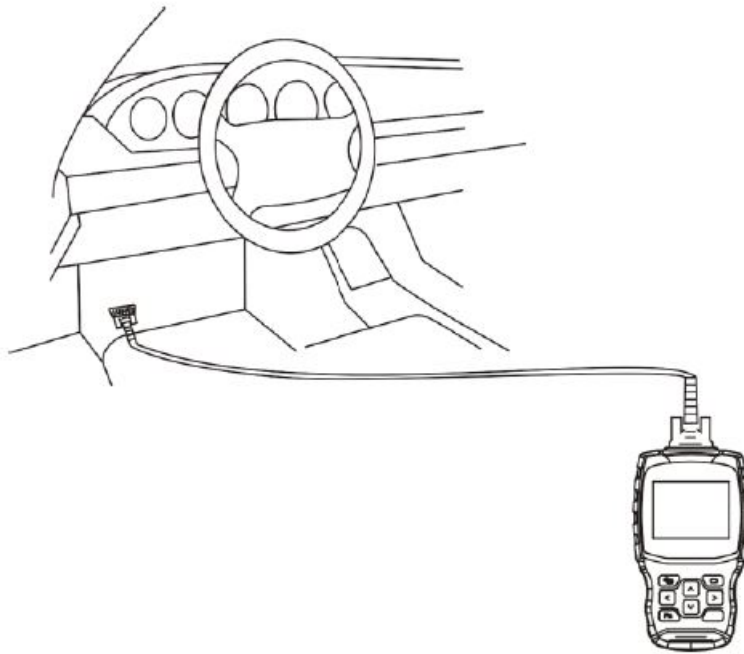
Technical Specifications

1	Screen Display	3.5" Color
2	Dimension (LxWxH)	24x16x11cm
3	Gross Weight	0.85kg
4	OS Platform	Linux
5	Card Memory	16G
6	Input Voltage	DC 12V

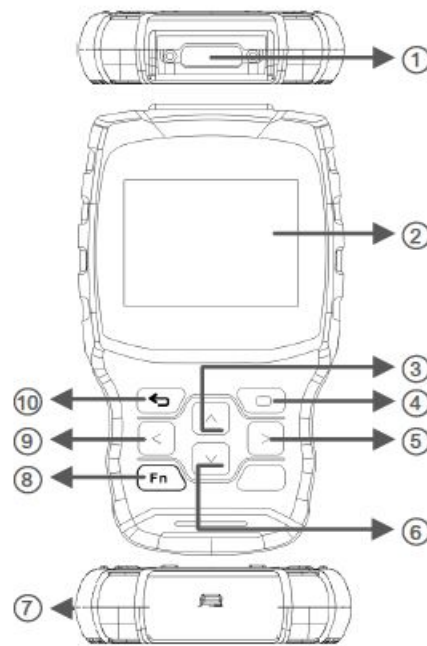
Standard Accessory Kits

1	Nylon tool bag
2	VT100 main unit
3	Main cable with OBDII-16
4	USB cable
5	User Manual

Cable Connection for On-Board Diagnosis



Port Definition & Keys Definitions



1	For main cable connection	2	3.5" color display
3	Up button	4	OK button
5	Right button	6	Down button
7	For USB cable connection	8	FN key
9	Left button	10	ESC button

FN Key (3-in-1 Functions defined)

FN #1 : Selection

Press FN key to select the items in live data function. After pressing OK, the live data will be displayed in graphic.

IGN RUN START SW	On
IGN STSRT SW	Off
Ignition Start Switch Filt	er Off
√ MAP Vacuum	0.00 (in Hg)
√ Map Volts	4.92 (Volts)

FN #3: Shift operation area

Different operation areas can be switched among each other by pressing the FN key during the special testing.

Auto Shutdown (ASD) Relay	
Auto Shutdown (ASD) Relay Control State	
Off	F1
On	F2
Toggle	F3
BACK	F1 F2

Press FN key, the function area will be highlighted as above, Press the left and right button to actuate more test.

Main Menu



Diagnose – Region Selection



Diagnose

To access specific diagnosis function directly base on selection of the areas as well as the car makes

Special Functions

To provide 5 common use service resets for the professional workshop repairs.

OBDII V3.0

10 modes of OBDII test for cars after1996 and newer including read/erase codes, view live data, view freeze frame data, view I/M readiness, O2 monitor test etc.

Settings

To provide the system setting, including Language , logging, unit setting and Bluetooth setting.

Update

To access online software update for full coverage. Internet update via WI-FI

About

To provide the system information menu.

Diagnose – Vehicle Coverage



Diagnose – Vehicle Coverage

Please note that the VT100 is a vehicle-specific car diagnostic tool. Therefore, it only supports vehicles of a specific car group, which depends on the pre-installed car brand software. For the blank version machine, please contact us to install your selected car brand software

Asian Chinese Vehicle coverage:

BMW, MERCEDES-BENZ, CITROEN, PEUGEOT, VOLVO, LANDROVER, JAGUAR, FIAT, OPEL, VAUXHALL, AUDI, VOLKSWAGEN, RENAULT, etc

Vehicle coverage:

GM, FORD, CHRYSLER

Vehicle coverage:

TOYOTA, LEXUS, HONDA, ACURA, NISSAN, INFINITI, HYUNDAI, KIA, MITSUBISHI, ISUZU, SUZUKI, MAZDA, SUBARU, etc

Vehicle coverage:

BYD, CHANA, CHEYR, GEELY, GWM, LIFAN, etc

Diagnose – Vehicle Identification

CHRYSLER	
1	Automatic selection
2	Manual selection

Diagnose – Control Unit

Control Unit	
1	Powertrain Control Module
2	Transmission Control Module
3	Anti Lock Brakes
4	AirBag

Diagnose – Function Selection

Powertrain Control Module	
1	Computer identification
2	Read fault code
3	Clear fault code
4	Read data stream

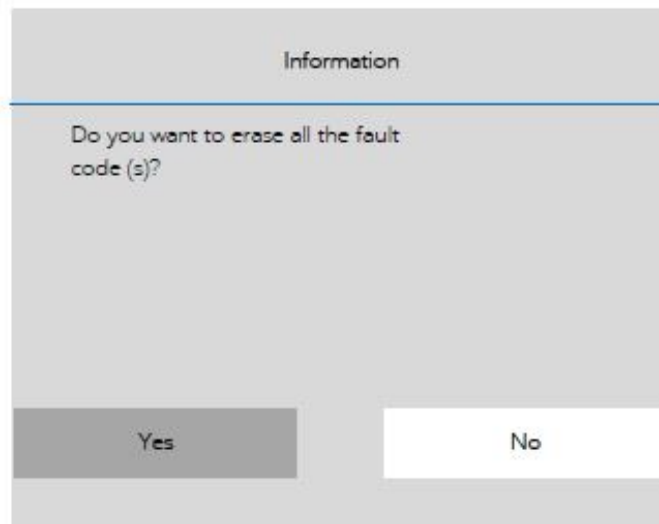
Diagnose – ECU Information

Vehicle Information	
Model Year	2010.00
ECU Part No.	68045613AE
Body Style	Station Wagon
Vehicle Line	RT
VIN-Original	2D4RN4DE0AR 473865

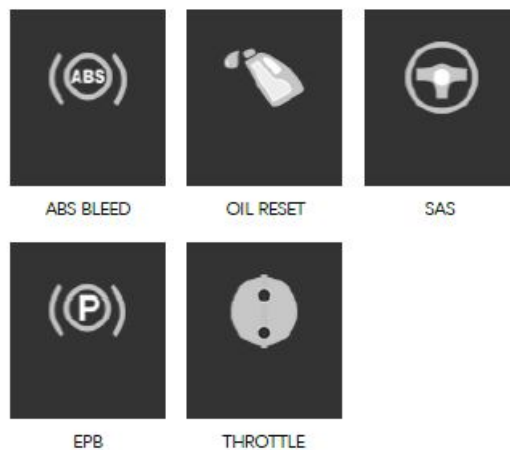
Diagnose – Read Fault Code

Fault code list	
P0522	Engine Oil Pressure Sensor
U0141	Low Communication with IPM (FCM/TIPM) [Active]
P0685	ASD/Main Control Circuit [Active]
P0627	Fuel Pump Control Circuit/open

Diagnose – Clear fault code



Special Function



Definition Special Function

Oil Light Reset

This function allows you to perform reset for the Engine Oil Life system, which calculations 1An optional oil life change interval depending on the vehicle driving conditions and climates. The Oil Life Reminder must be reset every time the oil is changed, so the system can calculate when the next oil change is required.

EPB Reset

This function has a multitude of usages to maintain the elec-tronic braking system safely and effectively. The applications include deactivating and activating the brake control system, assisting with brake fluid control, opening and closing brake pads, and setting brakes after disc or pad replacement, etc

ABS Bleeding

This function allows you to perform various bi-directional tests to check the operating conditions of Anti-lock Braking System (ABS). 1. When the ABS contains air, the ABS bleeding function must be performed to bleed the brake system to restore ABS brake sensitivity. 2. If the ABS computer, ABS pump, brake master cylinder, brake cylinder, brake line, or brake fluid is replaced, the ABS bleeding function must be performed to bleed the ABS.

Throttle Relearn

This function enables you to make initial settings to throttle actuators and returns the “learned” values stored on ECU to the default state. Doing so can accurately control the actions of regulating throttle (or idle engine) to adjust the amount of air intake.

SAS Reset

To reset the steering angle, first find the relative zero point position for the car to drive in straight line. Taking this position as reference, the ECU can calculate the accurate angle for left and right steering. After replacing the steering angle position sensor, replacing steering mechanical parts (such as steering gearbox, steering column, end tie rod, steering knuckle), performing four-wheel alignment, or recovering car body, you must reset the steering angle.

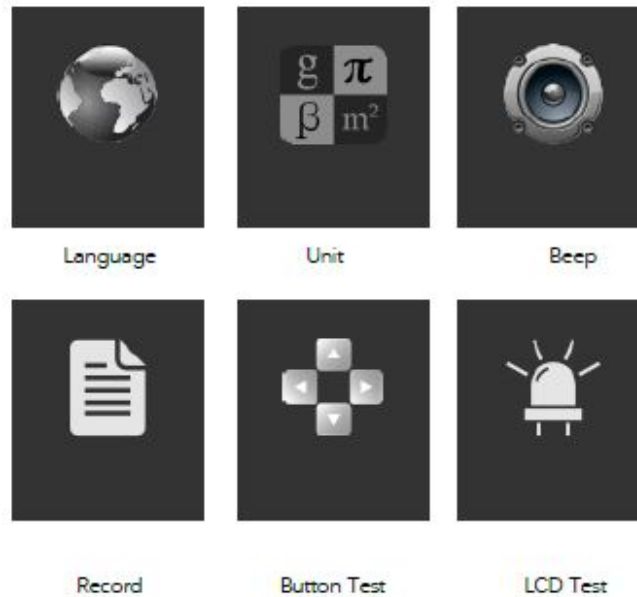
OBDII Function

Please Select the Nameplate:	
[1]	Read Current Trouble Code
[2]	Clear Trouble Code
[3]	Read Current Data
[4]	Read Pending Trouble Code
[5]	Read Freeze Frame Data
[6]	Readiness Tests
[7]	On-Board Monitoring Test
[8]	Read System Information

This section describes the various functions of each option:

1. Stored codes are the current emission-related DTCs from the ECM of the vehicle. OBD II/EOBD Codes have a priority according to their emission severity, with higher priority codes overwriting lower priority codes.
2. This option is used to clear all emission-related diagnostic data such as, DTCs, Freeze frame data and manufacturer-specific enhanced data from the vehicle's ECM, and reset the I/M Readiness Monitor Status for all vehicle's ECM.
3. This function displays the real time PID data from ECU. Displayed data includes analog inputs and outputs, digital inputs and outputs, and system status information broadcast on the vehicle data stream.
4. These are codes that were generated during the last drive cycle, but before the DTC actually sets, two or more consecutive drive cycles are needed. The service is to assist the service technician after a vehicle repair and after clearing diagnostic information, by expect or see differences between makes.
5. Typically, the stored frame is the last DTC that occurred. Certain DTCs that have a greater impact on vehicle emission, have a higher priority. The top prioritized DTC is the one for which the freeze frame records are retained.
6. This function is used to check the readiness of the monitoring system. It is an excellent function to use prior to having a vehicle inspected for state emissions compliance. Select I/M readiness to display a sub menu with two choice.
7. Use this option to view the result of On-Board Monitor tests. The tests are useful after servicing or after erasing a vehicle's control module memory.
8. The option displays the vehicle identification number (VIN), the

Setting



Language

Display record setting menu. Record includes: On and Off. Press OK to change the record setting selection. This function allows data recording during the Display multi-languages function menu. Total 18 languages optional. Only 2 languages loaded before delivery: English + local language

Display unit setting menu.

Unit includes: Metric and English units. Press OK to change the unit setting selection. Display beep setting menu.

Beep includes: On and Off.

Press OK to change the beep setting selection.

Button Test

LCD Test Display button function menu. Press the FN key for 2 seconds to quit the button test. Display LCD test function menu. Press ESC to quit the LCD test.

FAQ

Why cannot install VDiagtool Update client correctly?

After installing the VDiagtool Update Client software, the system won't accept the serial number for the auto scanner. Note: You need to connect auto scanner to PC with the USB cable before software download.

Why the vehicle linking error ?

A communication error occurs if the auto scanner fails to communicate with the vehicle ECU. Follow the steps to check the connections

1. Verify the ignition is ON.
2. Check the cable or connector is securely connected to the vehicle DLC.
3. Turn the ignition off and wait for about 10 seconds and turn the ignition back to ON and continue the testing.
4. Verify the control module is not defective.

Why the device doesn't power up ?

If the auto scanner won't power up or operate correctly in any other way, follow the steps to check the connections:

1. Check the connector properly inserted to the socket seat.
2. Check the DLC pins bent or broken.
3. Clean the DLC pins if necessary.

Why the device have no permission to update?

Please contact the local distributor to get authorization.

Why cannot find the WIFI name ?

The device can only display the Wifi name consisting of English character or numbers

Warranty**12-Month Limited Warranty**

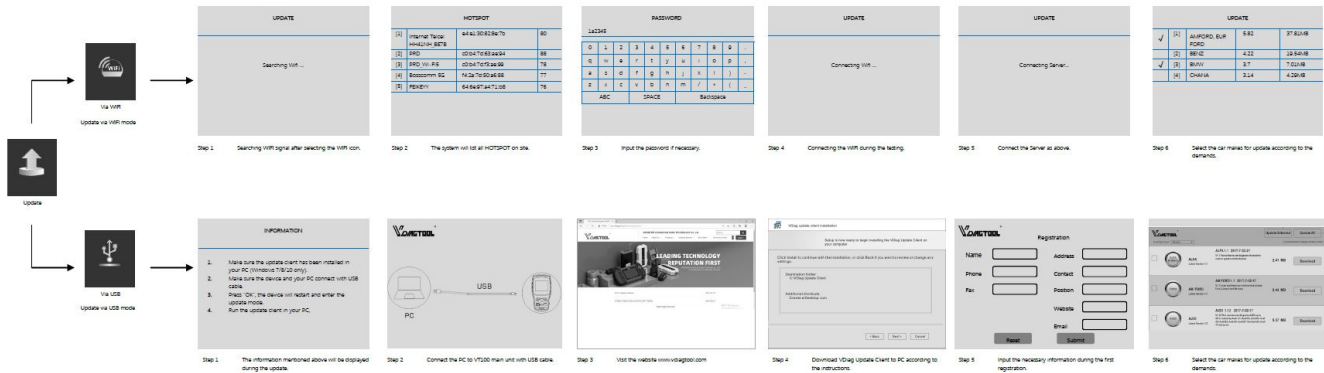
VDiagTool warrants to the original retail purchaser of this VT100 auto scanner, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within twelve (12) months period from the date of delivery, such defects will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defects. The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the auto scanner. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty does not apply to:

1. Product subject to abnormal use or conditions, accident, mishandling, neglect, unauthorized alternation, misuse, improper installation or repair or improper storage;
2. Products whose mechanical serial number or electronic serial number has been removed, altered or defected;
3. Damage from expose to excessive temperatures or extreme environmental conditions;
4. Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
5. Defects in appearance, cosmetic, decorative or structural items such as framing and non operative parts;
6. Product damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

IMPORTANT: All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.

Update Instructions and Procedures



FCC Statment

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment The devices has been evaluated to meet general RF exposure requirement the device can be used in portable exposure condition without restriction

Documents / Resources

[Acartool VT00 Auto Scanner](#) [pdf] User Manual
VT00, 2A6LC-VT00, 2A6LCVT00, VT00 Auto Scanner, Auto Scanner

References

- [VDIAGTOOL](#)