



VT00 Auto Scanner User Manual

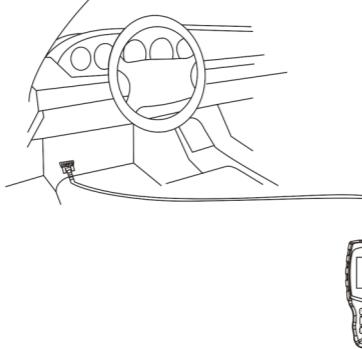
1 Technical Specifications

1	Screen Display	3.5" Color
2	Dimension (LxWxH)	24x16x1cm
3	Gross Weight	0.85kg
4	OS Platform	Linux
5	Card Memory	16G
6	Input Voltage	DC 12V

2 Standard Accessory Kits

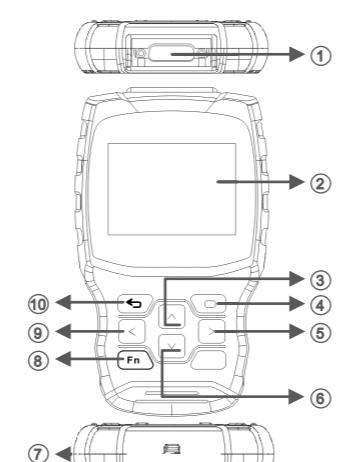
1	Nylon tool bag
2	VT100 main unit
3	Main cable with OBDII-16
4	USB cable
5	User Manual

3 Cable Connection for On-Board Diagnosis



Connection To connect the main unit with the main cable
To get power supply from the car via OBDII-16 connector

4 Port Definition & Keys Definitions



5 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 STRT SW	Off
Ignition Start Switch Filter	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.

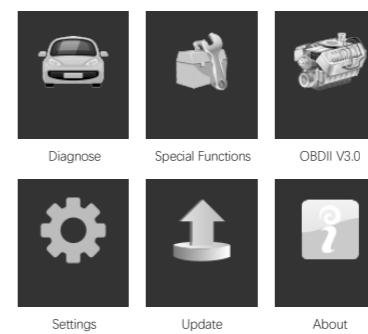
Auto Shutdown (ASD) Relay	
Auto Shutdown (ASD) Relay Control State	
Off	F1
On	F2
Toggle	F3
BACK	F1
	F2

Press FN key, the display area will be highlighted as above.
Press the up and down button to view more information.

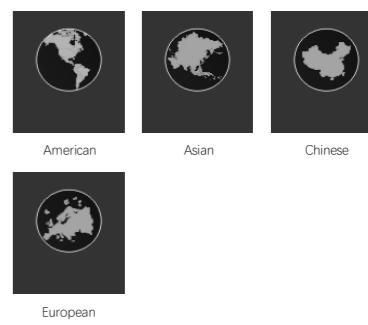
FN #2 : Show/Hide keyboard
Press FN key to show or hide the keyboard

Input channel number									
0	1	2	3	4	5	6	7	8	9
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	,
Z	X	C	V	B	N	M	/	()
abc								LE	DN
								RI	
									SPACE

6 Main Menu



7 Diagnose - Region Selection



9 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.

American Vehicle coverage: GM, FORD, CHRYSLER

Asian Vehicle coverage: TOYOTA, LEXUS, HONDA, ACURA, NISSAN, INFINITI, HYUNDAI, KIA, MITSUBISHI, ISUZU, SUZUKI, MAZDA, SUBARU, etc

Chinese Vehicle coverage: BYD, CHANA, CHEYR, GEELY, GWM, LIFAN, etc

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

10 Diagnose - Vehicle Identification

CHRYSLER	
1	Automatic selection
2	Manual selection

1. Automatic selection
The diagnostic system features the latest VIN-based Auto VIN Scan function to identify CAN vehicles in just one touch, which allows the technician to quickly detect vehicles, scan all the diagnosable ECUs on every vehicle and run diagnostics on the selected system.

2. Manual selection
This mode of vehicle selection is menu driven; you can make a series of choices. Each selection you make advances you to the next screen. A Back button returns you to the previous screen. Exact procedures may vary somewhat by various vehicles being serviced.

11 Diagnose - Control Unit

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

This option allows you to manually locate a required control system for testing through a series of choices. Follow the menu driven procedures and make proper selections; the application will guide you to the diagnostic function menu after a few choices you're made.

12 Diagnose - Function Selection

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

The Function Menu options vary slightly for different vehicles. The function menu may include:

1. Computer identification — provides the retrieved ECU information in detail. An information screen opens upon selection.
2. Read fault code — displays detailed information of DTC records retrieved from the vehicle control module.
3. Clear fault code — erases DTC records and other data from the test vehicle's ECU.
4. Read data stream — retrieves and displays data stream and parameters from the vehicle's ECU.

13 Diagnose - ECU Information

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

The function retrieves and displays the specific information for the tested control unit, including unit type, version numbers and other specifications. The sample Vehicle Information screen displays as above.

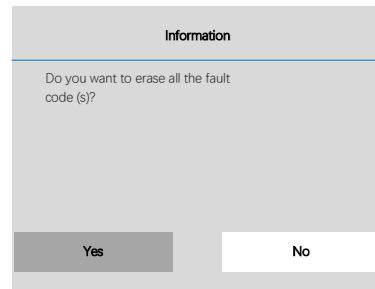
During an active test, the tester outputs commands to the ECU in order to drive the actuators. This test determines the integrity of the system or parts by reading the engine ECU data, or by monitoring the operation of the actuators, such as switching a solenoid, relay, or switch, between two operating states.

14 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

This function retrieves and displays the DTCs from the vehicle's control system. The Fault code list screen varies for each vehicle being tested. On some vehicles, freeze frame data can also be retrieved for viewing. The sample Read Codes screen displays as above.

15 Diagnose - Clear fault code



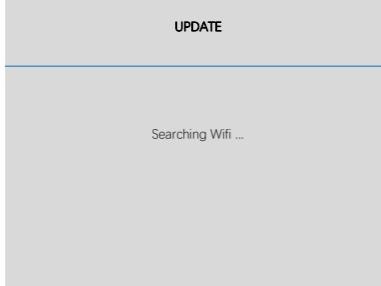
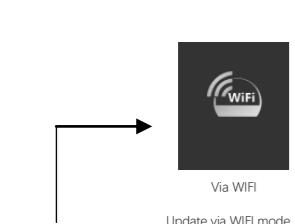
After reading the retrieved codes and making appropriate vehicle repairs, use this function to clear fault code.

16 Diagnose - DataStream

CHRYSLER	
Current Fuel Shutoff	ASD
SKIM VTA Invalid Key	False
Received Fault Posted	
NGC Should Shut Off Fuel	Fuel On
SKIM/VATA Has Completed	False
IGN RUN START SW	On

When this function is selected, the screen displays the data list for the selected module. The items available for any control module vary by vehicle. The parameters display in the order that they are transmitted by the ECM, so expect variation between vehicles.

24 Update Instructions and Procedures



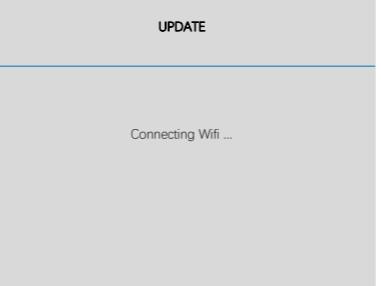
Update via WiFi mode

HOTSPOT			
[1] Internet Telcel	e4:e1:30:82:8e:7b	80	
[2] PRD	c0:b4:7d:63:ae:94	88	
[3] PRD_Wi-Fi	c0:b4:7d:f3:ae:99	78	
[4] Bosscomm 5G	f4:2a:7d:50:a6:88	77	
[5] FEIKEYY	64:6e:97:a4:71:b8	76	

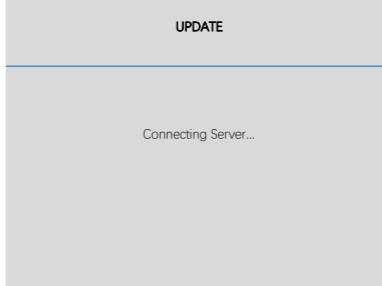
Step 2 The system will list all HOTSPOT on site.

PASSWORD												
1a2345												
0	1	2	3	4	5	6	7	8	9	.		
q	w	e	r	t	y	u	i	o	p	.		
a	s	d	f	g	h	j	k	l)	-		
z	x	c	v	b	n	m	/	*	(-		
ABC				SPACE				Backspace				

Step 3 Input the password if necessary.



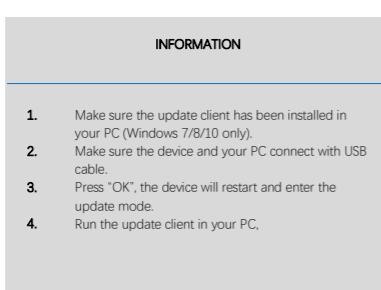
Step 4 Connecting the WiFi during the testing.



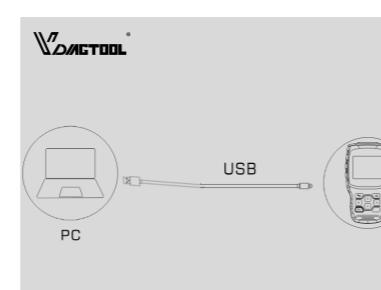
Step 5 Connect the Server as above.

UPDATE			
✓	[1] AMFORD, EUR	5.82	37.81MB
[2]	BENZ	4.22	19.54MB
✓ [3]	BMW	3.7	7.01MB
[4]	CHANA	3.14	4.29MB

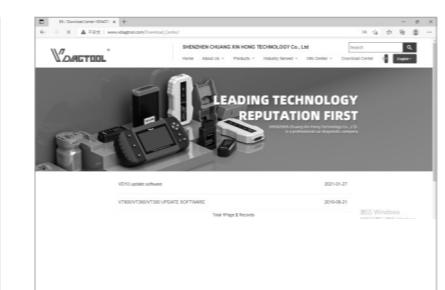
Step 6 Select the car makes for update according to the demands.



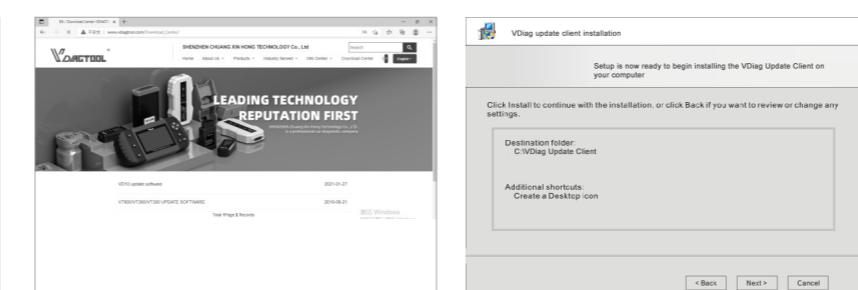
Update via USB mode



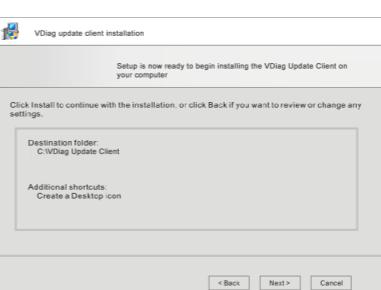
Step 1 The information mentioned above will be displayed during the update.



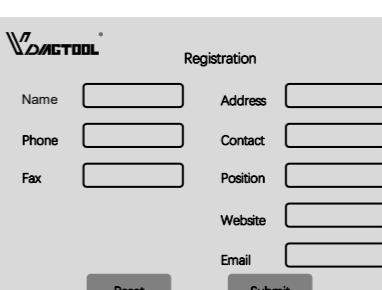
Step 2 Connect the PC to VT100 main unit with USB cable.



Step 3 Visit the website www.vdiagtool.com



Step 4 Download VDIAG Update Client to PC according to the instructions.

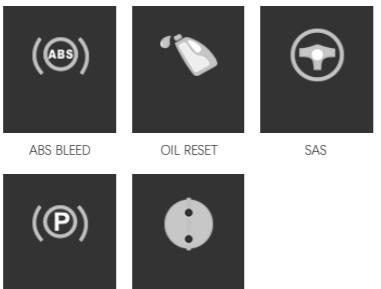


Step 5 Input the necessary information during the first registration.

UPDATE			
ALFA ROMEO	ALFA	2.41 MB	Download
AM FORD	AM FORD	2.44 MB	Download
AUDI	AUDI	5.37 MB	Download

Step 6 Select the car makes for update according to the demands.

17 Special Function



These functions perform various component adaptations, allowing you to recalibrate or configure certain components after some maintenance or replacement.

18 Definition of Special Function

Oil Light Reset
This function allows you to perform reset for the Engine Oil Life system, which calculates an 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 electronic 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.

After reading the retrieved codes and making appropriate vehicle repairs, use this function to clear fault code.

20 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/EGR 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.

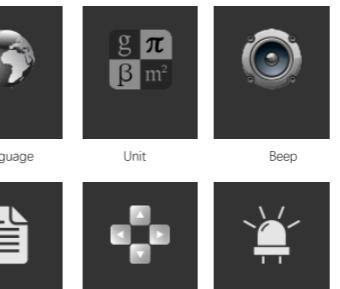
5. Typically, the stored frame is the last DTC that occurred. Certain DTCs that have a greater impact on vehicle emission, have a higher priority. The top prioritized DTC is the one for which the freeze frame records are retained.

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

21 Setting



Language: Display multi-languages function menu. Total 18 languages optional. Only 2 languages loaded before delivery: English + local language

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

Beep: Display beep setting menu. Beep includes: On and Off. Press OK to change the beep setting selection.

Record: Display record setting menu. Record includes: On and Off. Press OK to change the record setting selection. This function allows data recording during the

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

LCD Test: Display LCD test function menu. Press ESC to quit the LCD test.

22 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.

23 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:

- A) Product subject to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- B) Products whose mechanical serial number or electronic serial number has been removed, altered or defected;
- C) Damage from expose to excessive temperatures or extreme environmental conditions;
- D) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- E) Defects in appearance, cosmetic, decorative or structural items such as framing and non operative parts;
- F) 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.

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