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VCM LITE USER MANUAL



VCM Lite User Manual

Acronyms, abbreviations and description:

- App - software application designed to run on a mobile device
- DLC – Data Link Connector
- LED -Light Emitting Diode
- PID – Parameter Identification value

The VCM Lite is a vehicle diagnostic communication device designed to be used with a mobile device using either a Bluetooth or USB cable connection. The VCM Lite features 2 operational state LEDs a USB-C connector, a micro-SD card connector/interface and a push button accessed from the rubber compartment cover opposite to the DLC connector.

Getting Started

- 1) Create a Ford Service Information account. Create a free account here, [service info \(non-dealer\)](#) or [service info \(dealer\)](#) select register today.
- 2) Obtain a Ford DiagNow subscription by selecting, [mobile diagnostics](#) then use the path: Diagnostic tool support > software > FordDiag Now

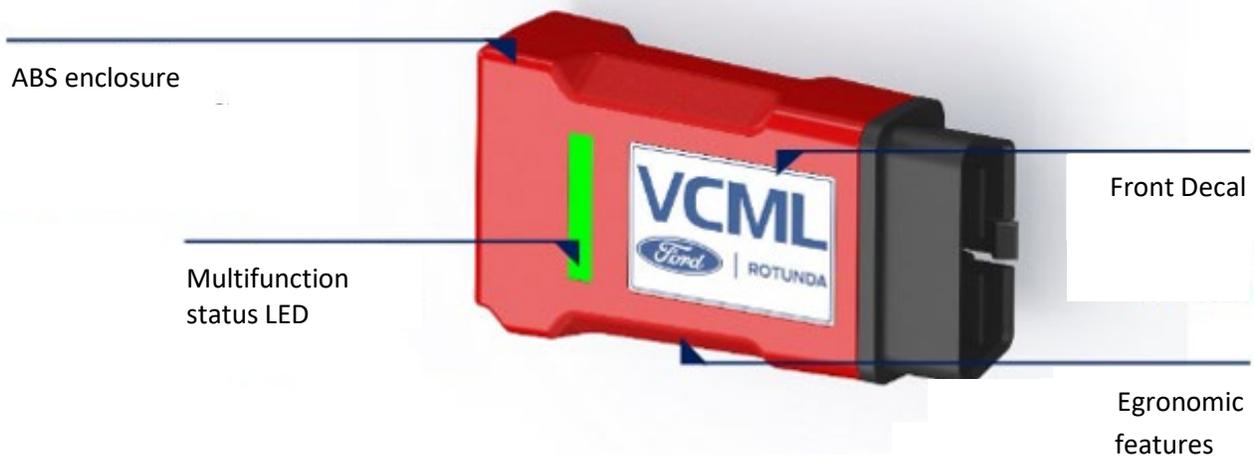
3) Using the search term Ford DiagNow



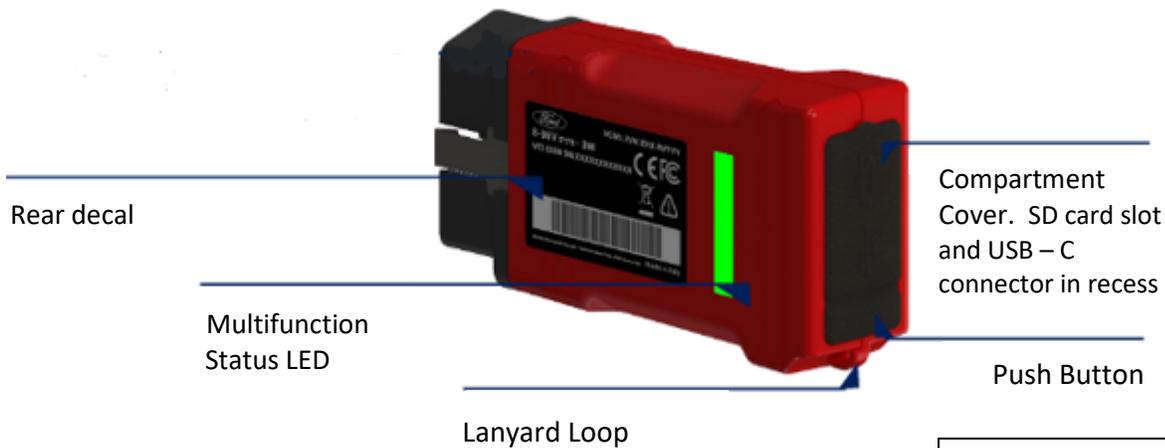
locate and download the App from the App store. **Note:** The minimum recommended mobile device operating systems are: **iOS 8 and Android 9.**

VCM Lite Product Diagram

Front View

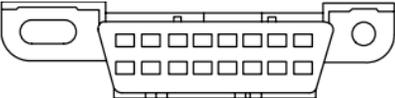
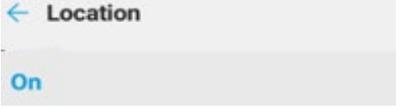


Rear View



Note: SD card or USB-C cable is not required for currently available features.

Operating Instructions

<p>1. Connect the VCM Lite to the vehicle DLC connector</p> 		
<p>2. Ensure that Bluetooth and location is enabled for the mobile device being used and at the App level for the Ford DiagNow App in device settings.</p>		
<p>3. After connecting the VCM Lite to the data link connector select the Bluetooth icon to view available devices to complete pairing. (This icon will transition from blue to green after a Bluetooth connection is made)</p>		
<p>4. Select (touch) the VCM Lite MAC address (last 4 digits) which corresponds with the device currently being used. This information can be found on the back decal.</p>	<p>Decal on back of enclosure VCI-1100 SN: 210730000027 MAC: 80:4B:50:CD 1D:B4</p>	<p>➔ Select, (touch) the device detected</p> <p>VCM-Lite-1DB4</p>

5. It is recommended to select units before launching Toolbox or return to this menu to change units.		
6. Select Go to proceed after identifying the vehicle.		
Additional function: Select the PTS icon to access the PTS professional technician system website information for the vehicle identified.		
Additional function: Scan VIN allows the mobile device camera to scan a VIN bar code to obtain the VIN number.		

Toolbox Function Descriptions

Self-Test	Self-Test initiates a test sequence, may include an on-demand self-test, to retrieve continuous (memory) and on-demand (current) DTCs diagnostic trouble codes.
Data Logger	Data Logger allows the user to select PIDs parameter identification values (live vehicle data) for the modules selected from the overall vehicle module view.
Live Network Monitor	Allows modules to be "pinged" to determine if they are able to respond to messages sent from the VCM Lite. Note: various networks can be temporarily <u>disabled by unselecting the network selection box</u> .

Troubleshooting: Ford DiagNow App

Concern	VCM Lite being used is not shown in the Bluetooth pairing screen under "select from the detected devices below."	Correction	>Ensure that location is enabled for the mobile device being used and at the App level for the Ford DiagNow App in device settings. Note: a message will be displayed on the Bluetooth pairing screen to indicate if location has been set to off in device settings. Select the link provided to be directed to location settings. > Additional check: ensure that the VCM Lite LED is flashing (green) and the mobile device is within 25 feet (open air) of the VCM Lite.
Concern	Some PIDs parameter identification values are not shown in Data Logger.	Correction	Go into settings and scroll all the way to the bottom, select clear local vehicle data and then re-identify the vehicle using the Read VIN or Scan VIN selection on the home screen.
Concern	Not able to login to the Ford DiagNow App.	Correction	Ensure that the correct user ID and password has been entered. If concerns are still encountered your login credentials may need to be reset.

Troubleshooting: VCM Lite – Vehicle Interface

Concern	VCM Lite LED is not illuminated	Correction	> Verify that vehicle power is present on terminals 4,5 and 16 at the DLC connector. To further confirm DLC connector integrity verify that another scan tool is able to be powered from the vehicle DLC connector. Note: The LED will flash green initially then alternating green and blue to indicate that Bluetooth pairing has occurred successfully.
Concern	All XXXXXs are displayed when attempting to read the VIN on the home screen.	Correction	Ensure that the LED is flashing on the VCM Lite (green) and the vehicle ignition is on. After verifying that the vehicle ignition is on closely inspect DLC terminals 6 and 14 and 3 and 11 for signs of lose pin fit and correct any concerns observed.
Concern	VCM Lite LED flashes alternating green and red for 1 minute when the VCM Lite is connected to the DLC connector. Additional information: This LED sequence indicates that a fault is present, yet VCM Lite operation will not be inhibited after the sequence has stopped.	Correction	>Remove the SD card and attempt to identify the vehicle and start a Ford DiagNow vehicle session. If the LED no longer flashes alternating green and red this confirms that the SD card has a fault and should be replaced. (if used)
Concern	VCM Lite LED flashes alternating green and red for approximately 2 minutes.	Correction	>This is an indication that the VCM Lite is in the process of formatting the SD card. The SD card will be ready for use after formatting has been completed.

Note: A firmware update of the VCM Lite software can be prompted by depressing and holding the push button at the back of the VCM Lite (molded into hinge portion of the compartment cover, cover does not need to be removed) before the VCM Lite is connected to the DLC connector followed by releasing the button 5 seconds after the VCM Lite powers up. The LEDs will then flash at an increased rate which indicates that the firmware will then be updated when a Bluetooth connection is made with the mobile device.

Warranty Terms and Conditions

During the Two-Year Warranty period, MAHLE Aftermarket Inc., Service Solutions (MSS) is solely responsible for costs associated with parts and labor for repairs needed due to defects in material and/or workmanship. MSS is not responsible for the costs associated with repairs needed due to improper use or a lack of required maintenance. MSS's goal is to provide a timely turn-around of the covered product requiring warranty repair.

The customer is responsible to ASSIST AND PARTICIPATE with Ford Technical Support in the over-the-phone, web contact and or remote diagnosis process of:

- Determining that a legitimate failure has occurred and that the complaint is not the result of inadequate training and or improper use that can be easily remedied by Ford Technical Support instructions.
- Determining the nature of the failure and that it is reasonable for Ford Technical Support to judge that the failure is warrantable.

- Determining the parts necessary to make the repairs so that those parts can be shipped when required via the appropriate expedited method at the expense of MSS if the failure is warrantable.
- The VCM Lite (VCI-1100) contains no user serviceable parts, opening of VCI-1100 is prohibited. In case of opening the warranty is void.

During the Two-Year Warranty period for failures that are deemed by MSS to be warrantable, MSS is responsible for providing replacements within a reasonable period-of-time after a warrantable failure is acknowledged.

It is the Customer's responsibility to maintain the MSS Equipment according to instructions (Manual and or User Manual) for the covered product and operate the equipment in a commercially reasonable manner. Ford provides Technical Support over the phone or through web-based contacts to assist the customer in operation and maintenance for the life of the covered product.

Please review the legal Warranty Disclaimer for more details of coverage and limitations.

Vehicle communication interface tools must be returned to MSS for repair or replacement with a new or refurbished unit, at MSS's sole discretion, in the event of a warrantable defect.

MSS's Warranty

This is to certify that Mahle Aftermarket Inc., MSS Division warrants to the first retail purchaser only, the described new product manufactured by it to be free from defects in materials and workmanship, when properly maintained, under normal use and service for a period of TWO YEARS from ship date. This warranty includes the reasonable cost of parts and materials as well as non-overtime labor. MSS shall be the sole judge of whether failure is warrantable.

Purchaser's Remedy:

Purchaser's sole and exclusive remedy under this warranty shall be limited to the repair or replacement, at MSS's sole discretion, of any defective part of the product. Purchaser shall contact Ford Technical Support who will assist Purchaser in diagnosing the problem and if deemed necessary, will immediately ship replacement parts for installation by Purchaser if so requested. If purchaser requests Factory service, repairs under this warranty shall only be made at a location designed by MSS.

Duration: The warranty will expire two years from date of shipment to the first retail purchaser.

Purchaser's Duties:

- Transportation Expense. Transportation expenses to and from the MSS's facility are to borne by the Purchaser.
- Notice of breach: Purchaser shall give written notice to MSS of any alleged refusal or failure of MSS to repair or replace as promised by this warranty no later than fifteen days after the Purchaser leans of such alleged failure or refusal.

Disclaimer:

The express warranty herein is in lieu of any and all other warranties, expressed or implied. No implied warranty of merchantability is made and there are no warranties which extend beyond the description on the face hereof.

Exclusions: The warranty and obligations stated here shall not apply to:

- Any product repaired or altered without approval of MSS so as to affect adversely its stability or reliability any and warranties and representations, except warranty extensions, if any, in writing as applicable.
- Any product subjected to misuse, abuse or accident as well as products used in a manner contrary to written instructions or normal operating procedure.
- Any visible damage to product during original shipment or subsequent shipments to MSS's facility for service.
- Used items furnished by the purchaser for installation on the product.
- Items which are not defective but must be replaced during the warranty period as-a-result of fair wear and tear or schedule maintenance.
- Exclusion of lost profits and other consequential damages

MSS will have no liability for any lost profit, cargo loss, usage loss or other consequential damages alleged to have been caused by any defect in the product and or any failure of MSS to meet any obligation under this agreement including the obligation to repair and replace set forth in paragraph 2.

Limitations of actions:

No action for breach of this warranty shall commence more than one year after the accrual of the cause of action.

Merger:

This written warranty is the complete, final and exclusive agreement of the parties with respect to the quality or performance of the goods and any and all warranties and representations, except warranty extensions, if any, in writing as applicable.

No oral modifications or waivers:

No modification of this warranty or waiver of its terms shall be binding on either party unless approved in writing by an authorized official of the parties.

Governing law:

This warranty and the rights and duties of the parties under this warranty shall be governed by the law of Michigan, the state of the MSS's principal place of business.

Mahle Aftermarket, Inc., Service Solutions
Farmington Hills, MI 48336.