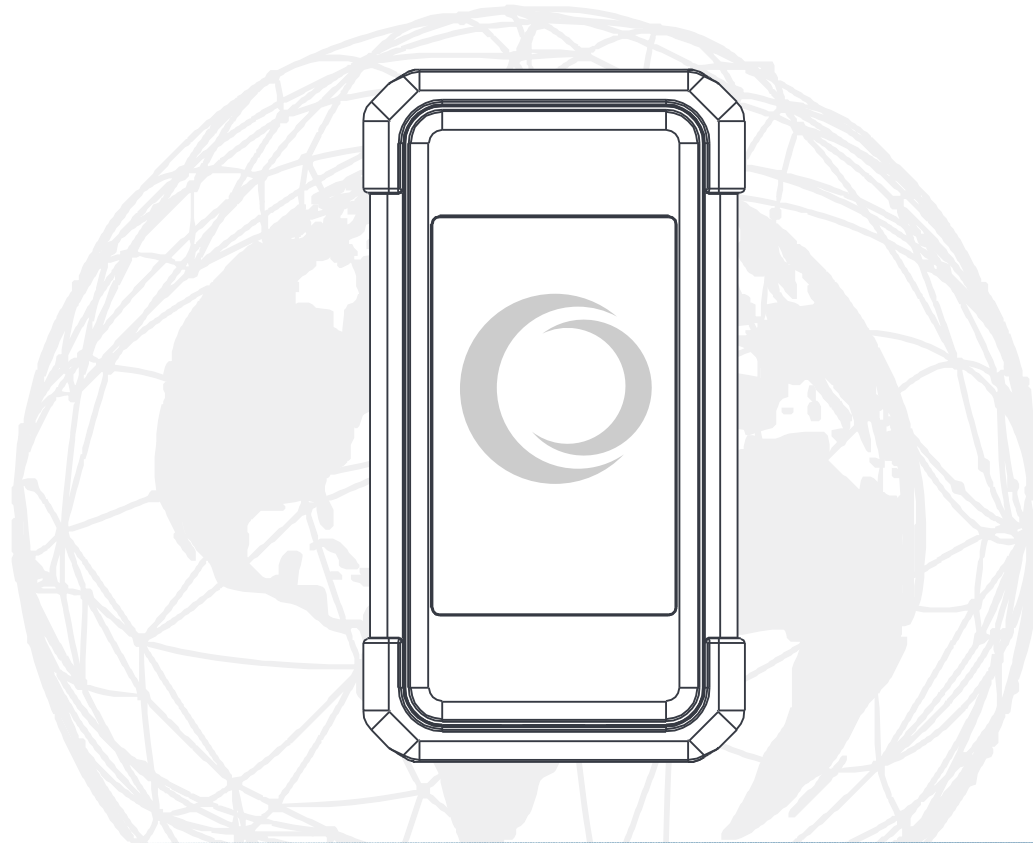


<http://smartlink.x431.com>



*SmartLink C V2.0*

Remote Diagnosis Interface

**User Manual**



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## Working Principle

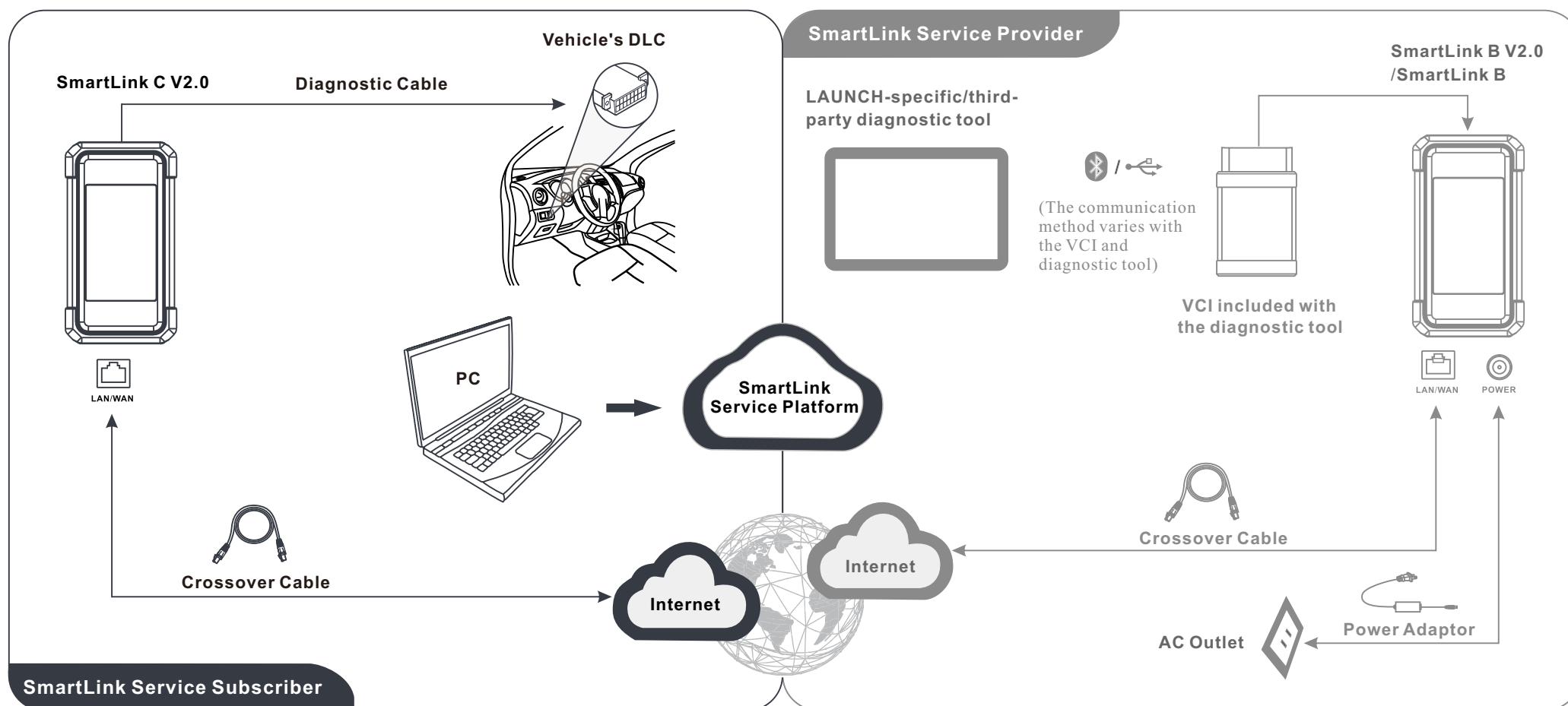
# SmartLink C

The SmartLink Remote Diagnostics System is a newly developed powerful service system dedicated to remote vehicle diagnosis and service. In this system, SmartLink C user, as a SmartLink Service Subscriber, can submit remote repair orders to vehicle repair companies (SmartLink B, the SmartLink Service Provider) via SmartLink Service Platform (<http://smartlink.x431.com>). The SmartLink C applies to vehicles that comply with CAN/DoIP/CAN FD/J2534 diagnostic protocol standard.

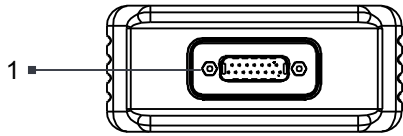
The SmartLink C system consists of the following two parts:

- ✓ **SmartLink Service Platform** -- For binding the SmartLink C dongles and posting the remote repair orders (\*Note: Orders can be submitted only after the SmartLink C dongle is successfully bound).
- ✓ **SmartLink C Dongle** -- Connects with vehicle's Data Link Connector (DLC) to obtain vehicle information before submitting repair orders.

The working principle of the SmartLink C dongle is as follows:



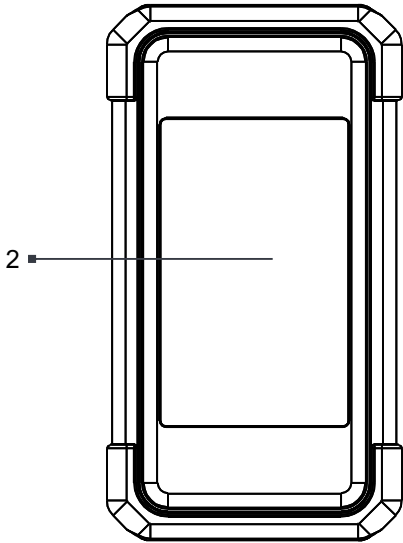
### 1. Components & Controls



#### 1. DB-15 Diagnostic Connector

Connect the diagnostic cable.

#### 2. 3.97 Inch Touch Screen



#### 3. DC-IN Port

\*Warning: Generally, the SmartLink C V2.0 dongle obtains power through the vehicle's DLC (Data Link Connector) via the DB-15 diagnostic connector. Do NOT connect the DC-IN port to an external DC power supply if the dongle can be powered up normally.

If the pin of the DLC is damaged or the DLC has insufficient power, connect the DC-IN port to an external DC power supply.

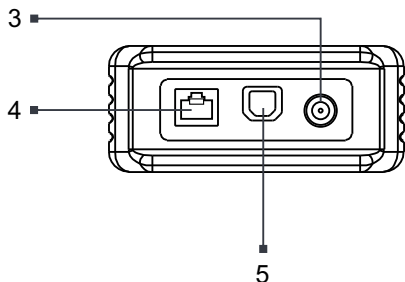
No responsibility can be assumed for any damage or loss caused as a result of not strictly following the above method.

#### 4. LAN/WAN Port

Connect it to the modem via the crossover cable.

#### 5. Data I/O Port

Connect the dongle to the diagnostic tablet to perform vehicle diagnosis when as a VCI device./Connect the dongle to the PC when as a J2534 PassThru device.



### Technical Parameters

Working voltage: DC 9-36V

Power consumption :  $\leq 6W$

Working temp. : 0°C-50°C

Dimension: 200mmx110mmx47mm

Communication: wireless and wired

### 2. Packing List

The following accessory items are for reference only. For detailed items, please consult from local agency or check the packing list supplied with the device.



**SmartLink C V2.0 Dongle**  
(For SmartLink Service Subscriber.)



**Diagnostic Cable**  
(Connect the dongle to adaptor cable. It can be separated into two parts: DB15F to HD15F data cable and OBD II adaptor. )



**CAT-6 Crossover Cable**  
(Connects the dongle to the network modem.)



**Data Cable**  
(Connects the dongle to the PC via the data cable when as a J2534 PassThru device.)



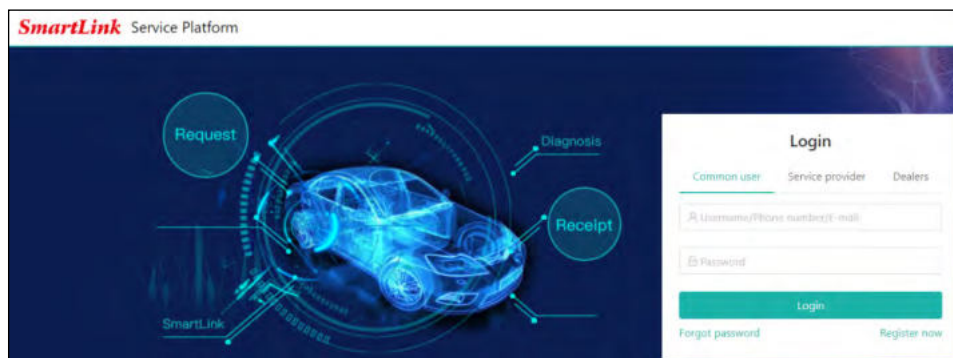
**User Manual**  
(An instruction manual on how to use the dongle.)

\*Disclaimer: Due to continuing improvements, actual product may differ slightly from the product described herein.

## 1. Register & Post Remote Diagnostics Orders

\* Due to continuing development and improvements of the SmartLink Service Platform, the user interfaces and functions will be updated periodically. A full version of operation guideline on this platform will be available on the following website <http://smartlink.x431.com>. For more details, please refer to the online Operation Guideline.

1. Open a web browser on a tablet or computer, visit the SmartLink Service Platform website <http://smartlink.x431.com>, the following screen will appear. Click **Register now**.



2. Choose the user type (Common user) and then click Next Step to go to step 3.

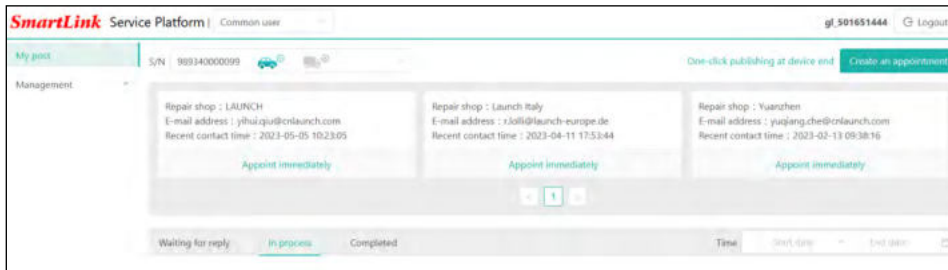


3. Enter all the required information (items with \* must be filled). Select the "I agree" checkbox after reading "Link Platform Register Protocol", and then click **Register now**.

4. Input the product S/N (Serial Number) and Activation Code (where the Product S/N and Activation Code can be found from the Password Envelope). Click **OK**. After finishing the registration, the system will automatically log in and navigate to the "My Post" page.

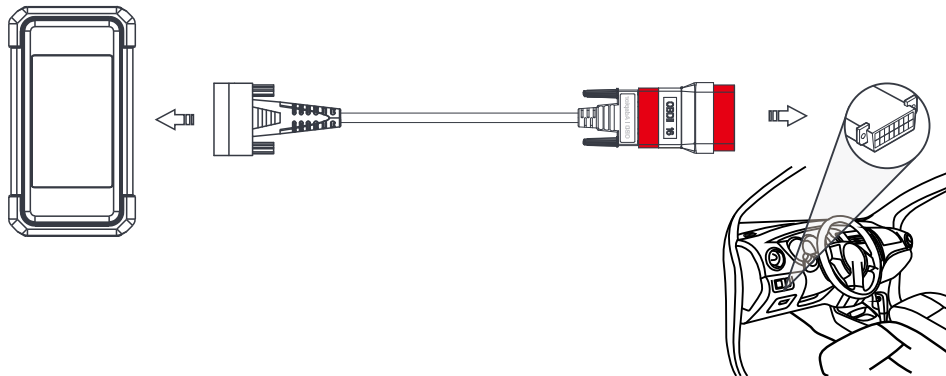
\* The remote diagnosis can only be performed after the SmartLink C user has submitted the request, and this request has been accepted by the remote technician expert.

- On the “My Post” page, click **Create an appointment**. Fill in the required information and then click **Submit**.



## 2. Start Diagnostics

- Turn off the vehicle ignition.
  - Use the included diagnostic cable (DB15F to HD15F data cable + OBD II adaptor) to connect the dongle to the vehicle's DLC port.
- \* For more information of DLC location, please refer to the Appendix.



- There are two kinds of methods available for the SmartLink C to connect the Internet.

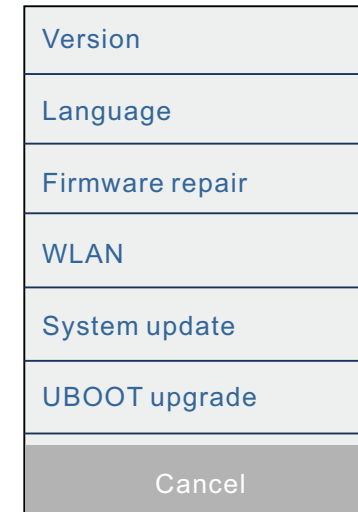
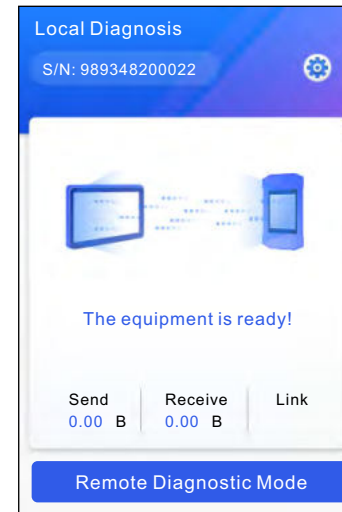
### Method 1: Via crossover cable (strongly recommended)

Plug one end of CAT-6 crossover cable into the LAN/WLAN port of SmartLink C V2.0 dongle, and the other end into the LAN port of network modem.

- \* The network broadband of 100MB and above is required for this operation.

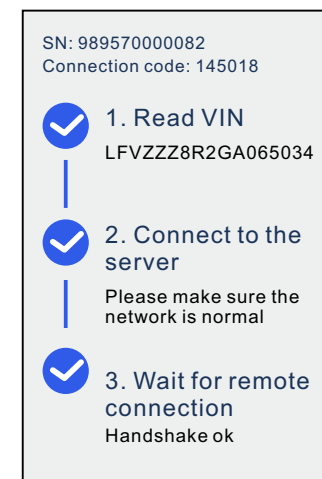
### Method 2: Via WLAN

Tap -> **WLAN**. Choose the target wireless network to proceed until **Connected** appears.



- After a successful network connection, tap **Remote Diagnostic Mode**, the system will automatically generate a random connection code and read the vehicle VIN information, and then connect to the remote diagnosis server.

- \* Each SmartLink C V2.0 dongle can only accept one remote diagnostic operation at one time.

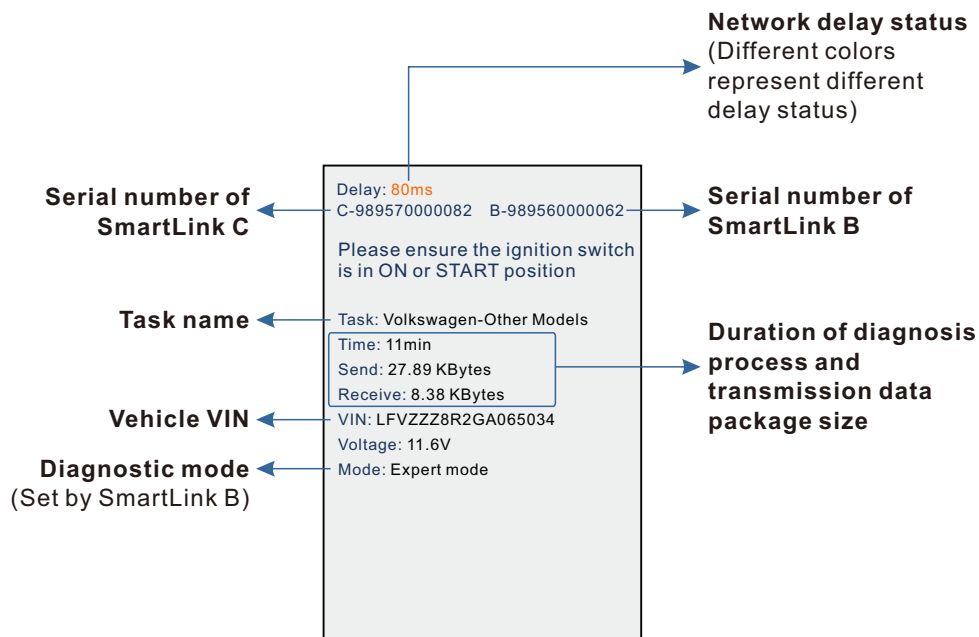


## Operations

5. Turn the ignition on.

- \* After receiving the order, the SmartLink B V2.0/SmartLink B master technician will accept the order and contact you via phone or E-mail address. Please make sure that you can be reached via the contact information provided by you.
- \* If you select the designated service technician when posting your remote order, please notify him/her of the connection code. The service technician will use it to directly retrieve your order with the and check the details of your order .

6. After a successful connection between the SmartLink C V2.0 and SmartLink B V2.0/SmartLink B is established, the following message will be displayed on the SmartLink C V2.0 screen.



- \* Please do not disconnect the vehicle or network connection during a remote diagnostic process.
- \* Please make sure that you are well connected with the internet when performing a remote online reprogramming process.

7. Unplug the crossover cable when a diagnostic session is completed.

## SmartLink C

### System Settings

Tap  to enter the following system setting screen.

|                 |
|-----------------|
| Version         |
| Language        |
| Firmware repair |
| WLAN            |
| System update   |
| UBOOT upgrade   |
| Cancel          |

#### Version:

Checks the system version information.

#### Language:

Sets the preference system language.

#### Firmware repair:

Fixes the firmware of the dongle when it can not work properly. When performing this operation, please do not cut power or exit the interface.

#### WLAN:

Connects the dongle to wireless network. Wired network connection is recommended since it has more stable and solid signals than wireless network.

#### System update:

Updates the current system version to the latest version.

\* This function requires a network connection.

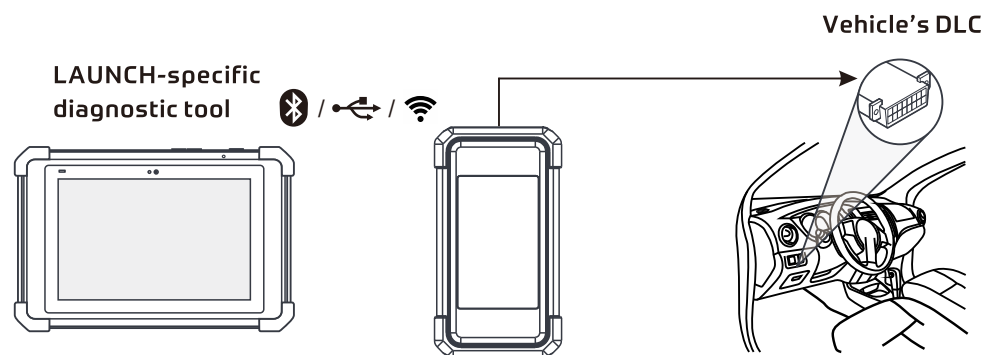
#### UBOOT upgrade:

Updates the UBOOT loader program.

\* This function requires a network connection.

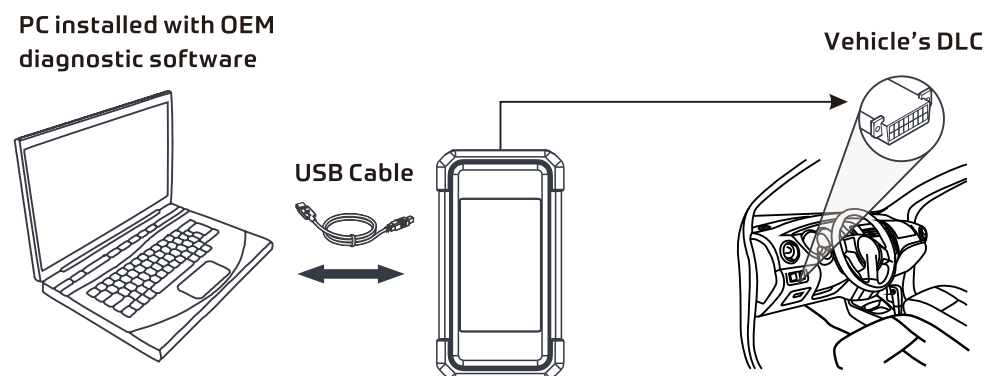
### 1. Work as a VCI (Vehicle Communication Interface)

When as a VCI, the SmartLink C V2.0 dongle needs to work in conjunction with the LAUNCH-specific diagnostic tool, which is used to obtain vehicle data, and then send it to the tool for analysis via wired/wireless communication.



### 2. Work as a Local J2534 PassThru Device

Except that the SmartLink C V2.0 acts as a VCI device and a SmartLink dongle, it also can be used as a local J2534 PassThru device, working together with the PC installed with the OEM diagnostic software to perform the J2534 reprogramming. In this case, the PC needs to install with the LAUNCH's J2534 tool, which can be downloaded from [www.cnlaunch.com](http://www.cnlaunch.com).



### 3. Work as a Remote J2534 PassThru Device

Additionally, the SmartLink C V2.0 dongle can also be used as remote J2534 PassThru device while performing remote ECU reprogramming function.

PC installed with OEM diagnostic software

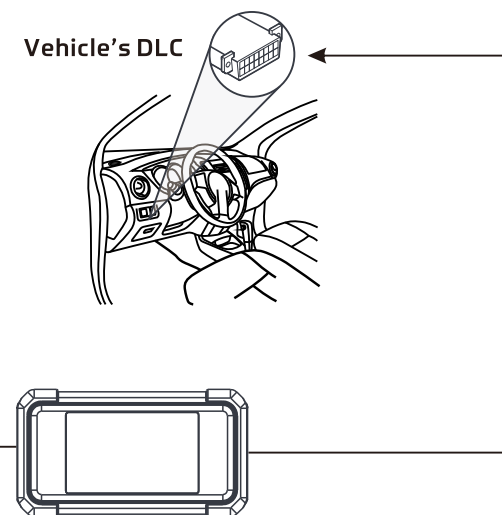


\*Before diagnosing, please make sure the following conditions are met:

- The SmartLink C V2.0 dongle is connected to the Internet and has a strong and stable network signal.
- The OEM diagnostic software has been installed on the PC.
- The LAUNCH's J2534 tool also needs to be installed on the PC. This tool and its associated operation instruction document can be downloaded from [www.cnlaunch.com](http://www.cnlaunch.com).



Vehicle's DLC



Ensure that the remote J2534 reprogramming operation is performed after the SmartLink C dongle V2.0 is connected to the vehicle's DLC port and the Internet, and has been switched to the super remote diagnosis mode.

For specific operations, please refer to other associated documents.

### 1. What's the minimum requirement for network conditions?

The remote SmartLink operation requires a network broadband of 100 MB or above.

### 2. What does "Delay" displayed on the SmartLink C V2.0 screen mean?

The Delay (network delay) indicates the quality of the current network. Different colors represent different delay status. There are three states of network delay:

- ✓ **Green:** Indicates the network is normal. It is recommended that the diagnosis operation be performed when the network delay is green. Otherwise, the communication with the vehicle may fail or the incorrect system detection may occur.
- ✓ **Yellow:** Indicates the network is not stable. Please keep it stable.
- ✓ **Red:** Indicates the network delay is serious and not suitable for remote diagnosis or the network is disconnected.

### 3. Why is my network connection so poor?

If the displayed network is poor, there may be too many people using the network in the LAN (Local Area Network) at the same time and some users are downloading. It is recommended to use a stable network for remote SmartLink diagnosis.

### 4. Why is there a ☁ sign in the upper right corner?

Some networks have firewall restriction which leads to a longer delay of connection. You are most likely to see this sign while your system is in connection with networks managed by communities or companies. It is recommended to use the networks directly installed by telecommunication operators where there is no firewall restriction.

### 5. Some systems of certain old vehicles can not be tested.

The SmartLink C V2.0 dongle supports CANBUS and DoIP communication protocols, but some old vehicle uses K-Line communication protocol.

### 6. Is it necessary to re-ignite the car after the diagnostic system starts working?

For the sake of some vehicle's conditions, the re-ignition will provide you a more detailed analysis after OBD diagnosis.

### 7. Can I use SmartLink C V2.0 to test heavy-duty vehicles?

Due to vehicle voltage limits, only a few heavy-duty vehicles are supported.

### 8. Can I charge SmartLink C V2.0 through an external DC power supply?

No. The SmartLink C dongle obtains power only through a vehicle's OBD diagnostic socket. Getting power through an external DC power supply could result in system malfunction.

### 9. Does SmartLink C V2.0 support Bluetooth communication?

Not yet.

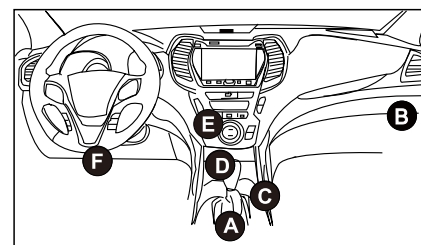
### 10. Can I use SmartLink B to perform remote diagnostics on SmartLink C V2.0?

Yes.

## Appendix - DLC Location

For passenger cars, the DLC is usually located 12 inches away from the center of the instrument panel, under or around the driver's side for most vehicles.

For some vehicles with special designs, the DLC may vary. Refer to the following figure for possible DLC location.



- A. Opel, Volkswagen, Audi
- B. Honda
- C. Volkswagen
- D. Opel, Volkswagen, Citroen
- E. Changan
- F. Hyundai, Daewoo, Kia, Honda, Toyota, Nissan, Mitsubishi, Renault, Opel, BMW, Mercedes-Benz, Mazda, Volkswagen, Audi, GM, Chrysler, Peugeot, Regal, Beijing Jeep, Citroen and most prevailing models

For commercial vehicles, the DLC is generally located in driver's cab.

If the DLC cannot be found, refer to the vehicle's service manual for the location.

If you have any questions or comments on the operation of the product, please contact the seller or send Email to our after-sale service email address: [overseas.service@cnlaunch.com](mailto:overseas.service@cnlaunch.com).

## **FCC Statement**

This equipment has been tested and found to comply with the limits for a Class A 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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

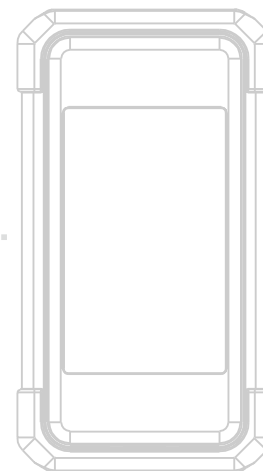
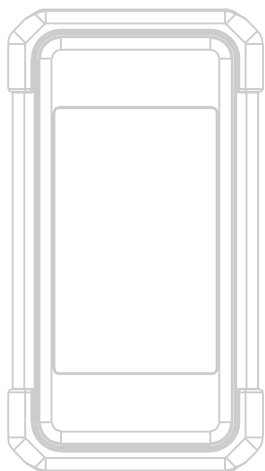
This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

## **FCC Radiation Exposure Statement:**

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.





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Post Code: 518129  
<http://www.cnlaunch.com>  
<http://www.x431.com>

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