Manuals+ — User Manuals Simplified.

DM5100 Multi System Diagnostic Scanner

AUTOPHIX DM5100 Multi System Diagnostic Scanner User Manual

Contents

AUTOPHIX

**AUTOPHIX DM5100 Multi System Diagnostic Scanner**

SAFETY PRECAUTIONS

To prevent personal injury or damage to vehicles and/or the scan tool, Read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle:

- Always perform automotive testing in a safe environment
- Do not attempt to operate or observe the tool while driving a vehicle. Operating or observing the tool will cause driver distraction and could cause a fatal accident.
- Wear safety eye protection that meets ANSI standards. Operate the vehicle in a well-ventilated work area: Exhaust gases are Poisonous.
- Put the transmission in PARK {for automatic transmission) or NEUTRAL {for manual transmission) and make sure the parking brake is engaged.
- Keep the scan tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when necessary.
- **Tips:** When using the product, please plug the product into the car before starting the car. {Please do not connect the USB when plugging in the device)

Appearance and buttons description
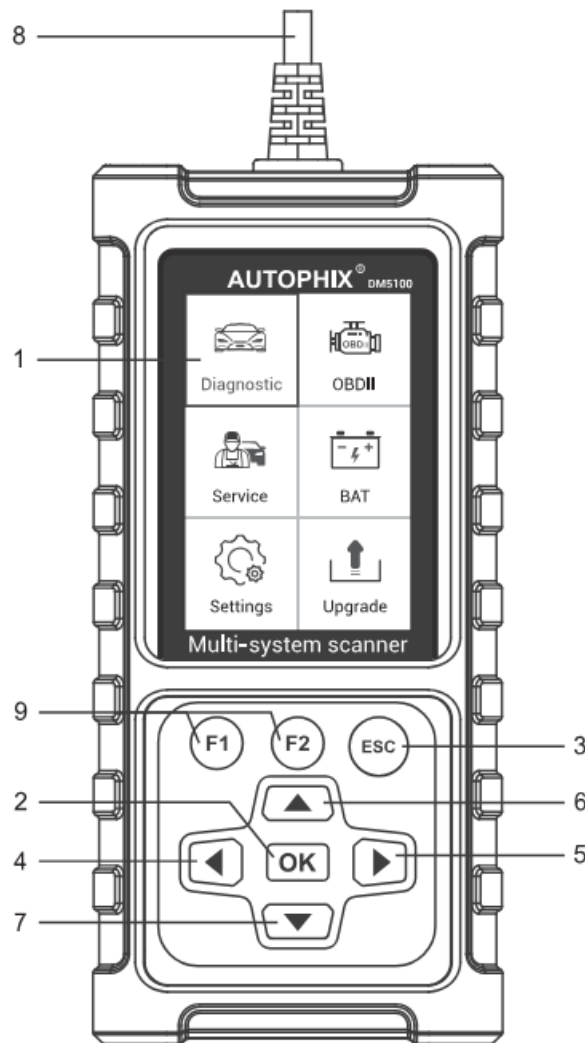
1. **LCD DISPLAY** – Indicates test results. Backlit, 3.5″ TFT color display
2. **[OK] BUTTON** – executes a selected option and generally goes to the next screen.
3. **[ESC] BUTTON** – exits a screen and generally returns to previous screen.
4. **[LEFT]SCROLL BUTTON** – in the menu mode through the menu and sub menu move to the left, when rolling in a data interface, use the left button can be moved to the last screen.
5. **[RIGHT] SCROLL BUTTON** – In the menu mode through the menu and sub menu item move to the right, when rolling in the data interface, use the right button can be moved to the next screen.
6. **[UP] SCROLL BUTTON** – in the menu mode through the menu and sub menu item moving up. When retrieving data for more than a screen by moving up the screen to the previous screen for more data.
7. **[DOWN] SCROLL BUTTON** – In the menu mode through the menu and sub menu item moves down. When retrieving data more than one screen, moving down the screen to the next screen for more data.
8. **OBD-I 6PIN CONNECTOR** – Connects the scan tool to the vehicle's Data Link Connector (DLC).
9. **[FI /F2] BUTTON** – Function buttons, two buttons that correspond with "buttons" on some screens for executing special commands or provide quick access to most frequently used applications or functions.

Accessory Descriptions

1. **Quick Start Guide** – provides brief operation instructions for the usage of the scanner.
2. **Diagnostic Cable** – provides connection between the scanner and a vehicle.
3. **USB Cable** – provides a connection between the scanner and a computer.
4. User's manual.

5. **Toolkit** – stores the scanner and its accessories.

Technical Specifications

- **Display:** Backlit, 3.5″ TFT color display
- **Operating Voltage:** 8V~ 18V
- **Operating Temperature**: 0°C~60°C (32°F~ l 40°F)
- **Storage Temperature**: -20°C~ 70°C (-4 °F~ l 58°F)
- **Dimensions**: (L*W*H): l 95*90*34mm

DM5100 FEATURES

Diagnostic
Entering the diagnostic interface, it is divided into three regions: Europe, USA and Asia according to the origin of automobile manufacturing.
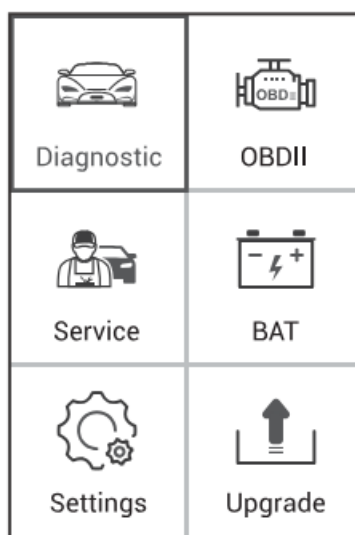
- **The brands in the European region, such as:**

  Benz, Smart, Sprinter, Maybach, BMW, Mini, Rolls-Royce, VW, Audi, Skoda, Seat, Bentley, Lamborghini, Bugatti, VW Commericial, Opel, Vauxhall, Volvo, Land Rover, Jaguar, Peugeot, Citroen, DS, Renault, Dacia, Porsche, Ford(EU).

- **The brands in the USA, such as:**

  Ford(US), Lincoln, Mercury, GM, Buick, Cadillac, Chevrolet, GMC, Holden(2010-), Daewoo(2009-2015), Chrysler, Dodge, Jeep, RAM.

- **The brands in the Asian region, such as:**

  Toyota, Lexus, Scion, Honda, Acura, Nissan, Infiniti, Hyundai, KIA, Samsung.

NOTE:
When the product leaves the factory, only one model is installed. Subsequent models are subject to customer purchase. If you need more models, please register and activate account to pay for more brand diagnostic software.

0BDII
DM5100 works on most after 1996 OBD II compliant Us, European and Asian vehicle

OBDII/EOBD menu lets you access all OBD service modes. According to ISO 9141-2, ISO 14230-4, and SAE Jl 850 standards.

When OBDII/EOBD application is selected from Home screen, the scanner starts to detect the communication protocol automatically. Once the connection has established, a menu that lists all of the tests available on the identified vehicle displays. Menu options typically include:

- Read Codes
- Clear Codes
- I/M Readiness
- Live Data
- Freeze Frame Data
- 02 Sensor Test
- On-board Monitor Test
- Component Test
- Vehicle Information

NOTE:
Not all function options listed above are applicable to all vehicles. Available options may vary by the year, model, and make of the test vehicle. A "Not supported the mode!" message displays if the option is not applicable to the vehicle under test.
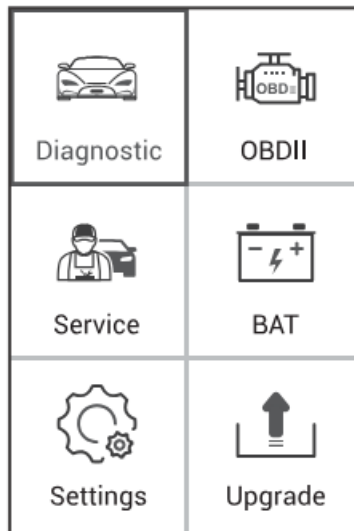
Service

This section gives brief instructions of the most commonly required service and maintenance operations. Typical service operation screens are a series of menu driven executive commands. Follow on-screen instructions to complete the operation. Available service and maintenance options include:
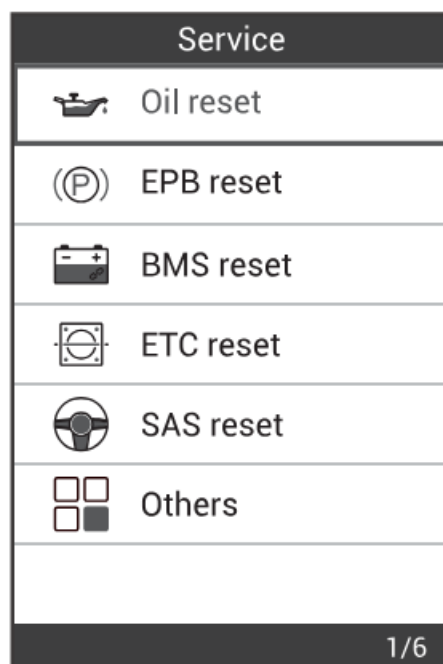
- Oil reset
- ETC reset
- EPB reset
- SAS reset
- BMS reset
- Others

To start a test:

1. Scroll with the arrow keys to highlight Service from the main menu and press the OK key. A list of available services displayed.

2. Select a service to test and press OK button to start.

Oil reset

- You will need to reset oil change light after every oil change. If it is not properly reset the system can't track when your next oil change is due.
- Many late-model vehicles are equipped with an oil life monitor system. These systems use your engines computer to calculate when you need an oil change based on input from your vehicle's engine sensors. When your vehicles computer calculates all of these inputs and decides its time for an oil change it will turn on a light or message on your dashboard. You will usually see this message anywhere between 5000 miles (8,000 km) and 8000 miles (13,000 km) depending on the vehicle and driving conditions.
- This function can be performed in the following cases:
- If the service lamp is on, you must provide service for the car. After service, you need to reset the driving mileage or driving time so that the service lamp turns off and the system enables the new service cycle.
- After changing engine oil or electric appliances that monitor oil life, you need to reset the service lamp.

NOTE:

Due to the wide range of vehicles makes and models, this is general information and should not be taken as specific to any vehicle. Please consult manufacturer specifications for the correct specifications and repair procedures for your vehicle. This information is meant to be used as a guideline only.

EPB reset

- EPB Service menu allows you to perform the service and maintenance of brake systems.
- Park the vehicle horizontally, release the parking brake button. Don't depress the brake pedal. Retract the motor with scanner.
- The scan tool drives EPB Motor to installation position. Remove the wheels. Remove the caliper bolts using the correct size of socket or ring-spanner. Carefully hang the caliper with a small piece of wire to the wheel well. Remove the old pads. Put the new pads on. After working on the change has been completed.
- Re-Install the Brake Caliper. Put the wheel back on. Move Back Brake Motors by using the scan tool.Depress brake pedal and hold depressed. Activate the electromechanical parking brake button. Read and erase fault codes, some cars need to be self-adaptive.
- Typical special test options include:
    - Adaptation on Audi A8 – allows to set new pad thickness of rear brakes calipers after changing brake discs & pads on Audi A8 models.
    - Perform service reset and service position on BMW EPB vehicles – allows to do the CBS reset and CBS correction for front brake and rear brake.

Warning:

- EPB systems must be deactivated before carrying out any maintenance/service work on the brakes such as changing of pads, discs and calipers.
- Use proper tools to avoid the risk of body injuries of mechanics and technicians and damage to the brake system.
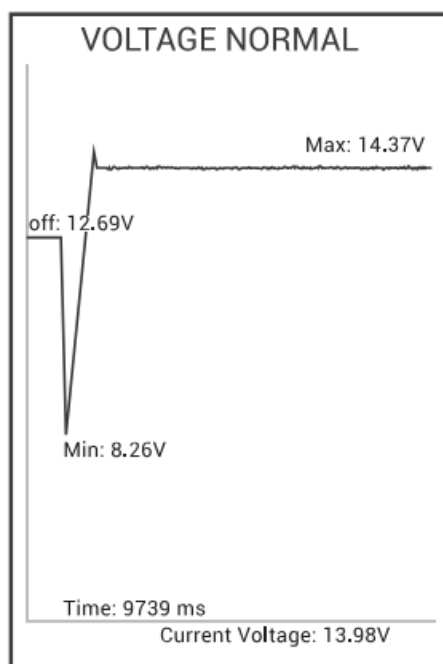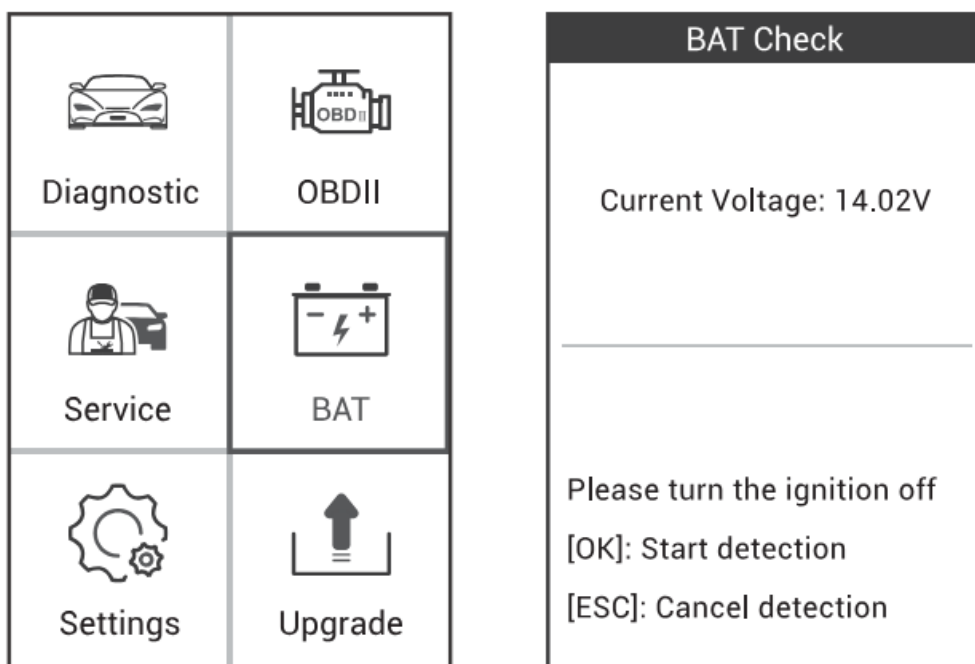- Make sure the vehicle is properly blocked after deactivation of the systems.

BMS reset

- After fitting a new battery, the battery reset should be run. Reset battery is necessary to notify the power management (software in the engine electronics and intelligent battery sensor) that a new battery has been fitted in the vehicle.
- Without the battery reset, the power management does not run properly and this can lead to function limitations, for example reduction or deactivation of individual consumer units.
- BMS menu lets you to validate new battery, clear faults from the dashboard and display current battery details of the vehicle such as Audi, BMW, Citroen, Peugeot, Seat, Skoda, Volvo, VW and Ford.
    - Replace the old battery with the new one. Ensure the key is not in the ignition. (Some cars need an external power supply and cannot be powered off)
    - Connect the scanner to the vehicle's 16 pin Data Link Connector (DLC) with the diagnostic cable.
    - Boost the device and select BMS; it will display all the vehicle makes available. Choose your vehicle make and follow the scanner instruction to start. (Turn the key to the ON position)

BAT

The function is used to read real time battery voltage.

From the Main menu, select the BAT menu and press the OK button. The screen will display the interface as shown below:

Diagnostic	OBDII
Service	BAT
Settings	Upgrade

BAT Check

Current Voltage: 14.02V

Please turn the ignition off

[OK]: Start detection

[ESC]: Cancel detection

VOLTAGE NORMAL

Max: 14.37V

off: 12.69V

Min: 8.26V

Time: 9739 ms

Current Voltage: 13.98V

Settings

When Settings is selected, a menu with available service options displays. Menu options typically include as following:
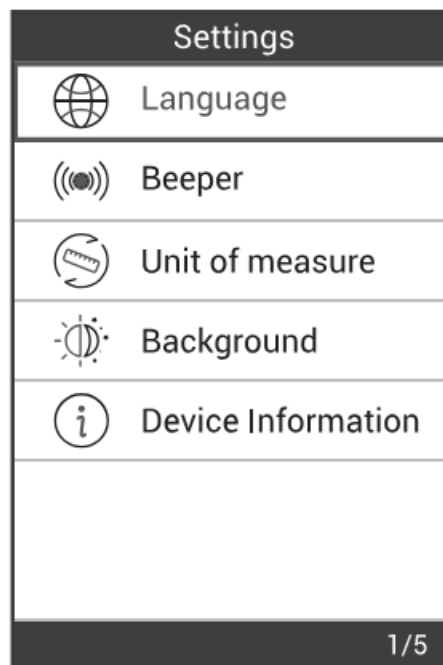
Language

Selecting Language opens a screen that allows you to choose system language.

Beeper

Selecting Beeper that allows you to turn on/off the beeper.

```
┌─────────────────────────────────┐
│            Beeper               │
├─────────────────────────────────┤
│  OFF                            │
├─────────────────────────────────┤
│  ON                             │
│                                 │
│                                 │
│                                 │
│                                 │
│                                 │
│                                 │
│                                 │
│                           1/2   │
└─────────────────────────────────┘
```
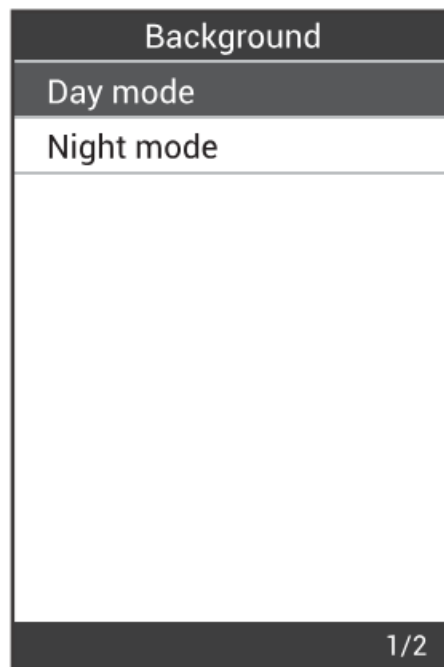
Unit of Measure

Set measure to Metric or Imperial.

```
┌─────────────────────────────────┐
│         Unit of Measure         │
├─────────────────────────────────┤
│  Metric                         │
├─────────────────────────────────┤
│  Imperial                       │
│                                 │
│                                 │
│                                 │
│                                 │
│                                 │
│                                 │
│                                 │
│                           1/2   │
└─────────────────────────────────┘
```

Background

Day mode/night mode, switch according to the actual situation.

```
        Background
  Day mode
  Night mode




                          1/2
```

Device Information
Select device information, the following interface will appear:

```
     Device Information

  Software Version:
                    01.40.000
  Library Version:
                    01.18.000
  Serial Number:
            DC601X000001




  ↑ ↓ ← →  OK  ESC
```
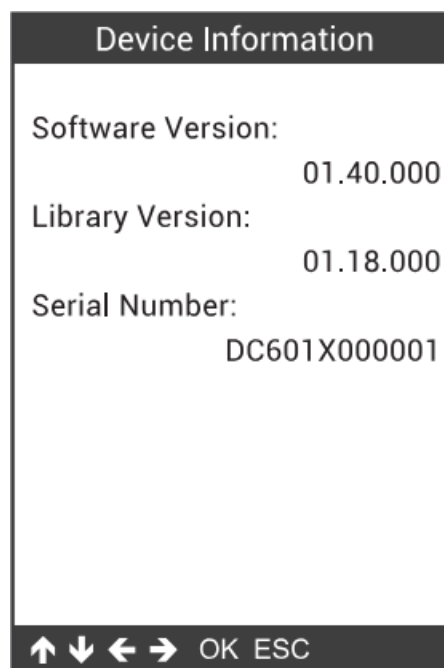
Upgrade

To upgrade the software, please follow the steps below:

1. Download the upgrade tool installation file setup.exe from the company's official website.
2. After the installation is successful, connect the PC with a type C cable, and double-click the shortcut icon of the upgrade tool to start the upgrade tool.
3. To run the device for the first time, the user needs to register an account first, fill in the email address, set the login password and other information.
4. After successfully registering an account, log in.
5. After successful login, the upgrade tool will enter the activation page by default, and the user only needs to click

the [Activate] button.

6. After the device is successfully activated, the next time the device is connected to the upgrade tool, it will directly enter the Download Center page after logging in.

7. This product also supports the expansion of more models. You can purchase the special car software you want at the [Purchase Center] at a very cost-effective price to expand its functions. After the purchase is successful, you can upgrade the model software you purchased in the [Download Center].
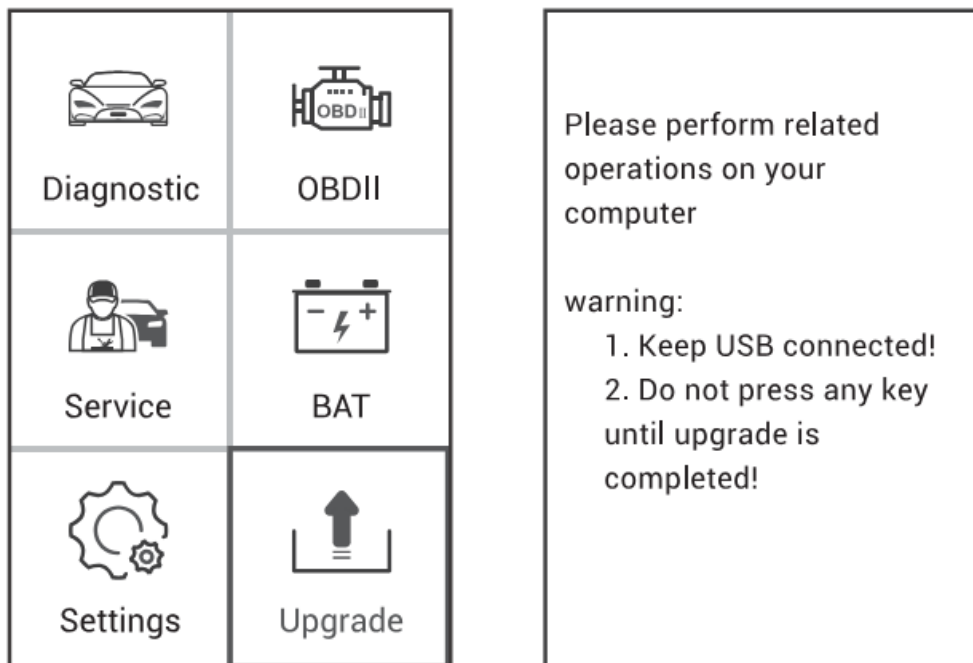
Autophix Assist:
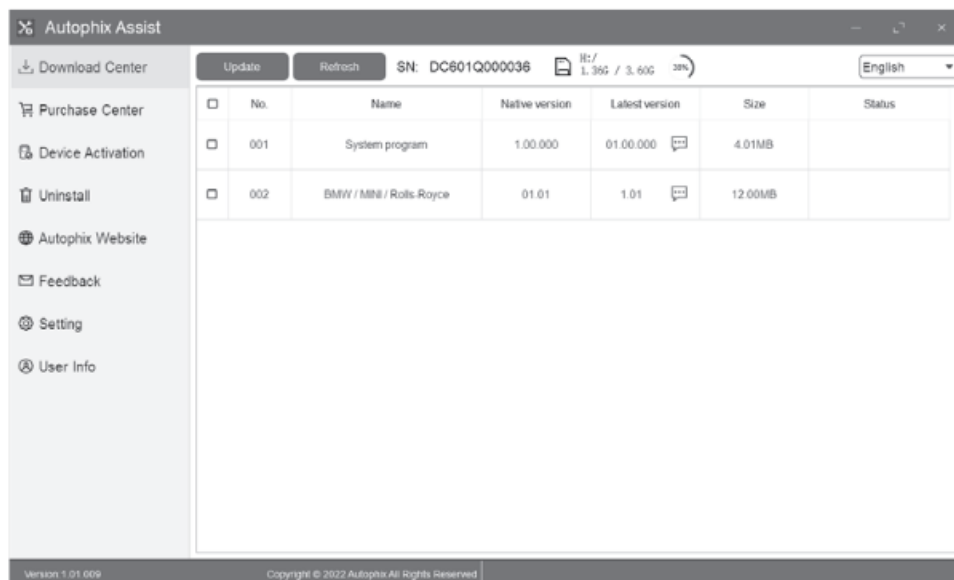
NOTE:
The actual product may be slightly changed due to continuous software updates, please refer to the actual product.

FCC Requirement

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

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.

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Documents / Resources

AUTOPHIX® USER'S MANUAL DM5100	**AUTOPHIX DM5100 Multi System Diagnostic Scanner** [pdf] User Manual DM5100, DM5100 Multi System Diagnostic Scanner, Multi System Diagnostic Scanner, Diagnostic Scanner, Scanner

References

- **User Manual**