

[Manuals.plus](#) /

› [ANCEL](#) /

› ANCEL MT510 Motorcycle Diagnostic Tool User Manual

ANCEL MT510-DT

ANCEL MT510 Motorcycle Diagnostic Tool User Manual

Model: MT510-DT

1. INTRODUCTION

The ANCEL MT510 is a professional diagnostic tool designed specifically for Ducati motorcycles. It provides comprehensive system diagnostics and various reset functions to assist with maintenance and troubleshooting. This manual provides detailed instructions on the setup, operation, maintenance, and troubleshooting of your ANCEL MT510 device.

2. WHAT'S IN THE BOX?

Upon unboxing your ANCEL MT510, please verify that all components are present:

- 1 x MT510 Tablet PC
- 1 x 12V Charger
- 1 x MOO1A Main Cable
- 1 x M037 Adapter Cable (for Ducati)
- 1 x Quick Start Guide/Certificate

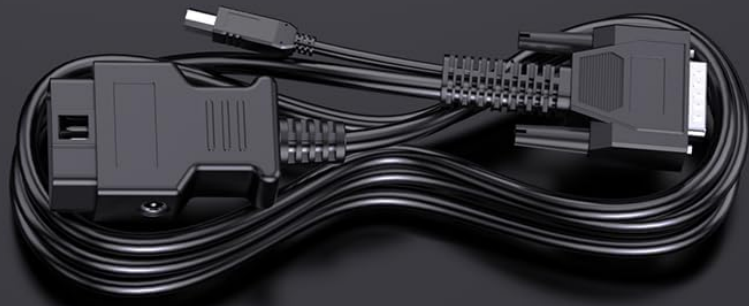
WHAT IS IN THE BOX?



MT510



12V 2ADC Power Adapter



MOO1A Main Cable



M037 Adapter Cable
(For DUCATI)

Image: Contents of the ANCEL MT510 package, showing the diagnostic tablet, 12V 2ADC power adapter, MOO1A main cable, and M037 adapter cable for Ducati.

3. SETUP AND INITIAL USE

Follow these steps to set up your ANCEL MT510 device for the first time:

1. **Charge the Device:** Connect the 12V charger to the MT510 Tablet PC and a power outlet. Ensure the device is fully charged before initial use.

2. **Power On:** Press and hold the power button until the screen illuminates.
3. **Connect to Wi-Fi:**
 - Navigate to **Settings** on the main menu.
 - Select **Wi-Fi** and connect to an available network.
4. **Software Update:**
 - From the main menu, select **Upgrade** or **Update**.
 - Log in with your username and password.
 - Download the necessary software for your Ducati motorcycle models. The device comes with one year of free software updates.



Image: Step-by-step guide for initial setup, including Wi-Fi connection and software download.

4. OPERATING THE MT510 DIAGNOSTIC TOOL

4.1 Connecting to Your Motorcycle

1. **Locate Diagnostic Socket:** Identify the diagnostic socket on your Ducati motorcycle. The MT510 can automatically detect and read the VIN (Vehicle Identification Number) of your connected Ducati motorcycle, which assists in locating the correct diagnostic socket.
2. **Connect Cables:** Use the appropriate adapter cable (M037 for Ducati) and the MOO1A main cable to connect the MT510 device to your motorcycle's diagnostic port.
3. **Power On Motorcycle:** Turn the ignition of your motorcycle to the ON position.

FOR DUCATI'S FULL RANGE OF VEHICLE MODELS IS SUPPORTED FOR BASIC DIAGNOSTICS UNTIL OCTOBER 2023.



Image: Visual guide for locating the motorcycle diagnostic socket.

ANCEL

OBD-II Diagnostic Menu

- Read Codes
- Erase Codes
- Live Data
- Freeze Frame
- Vehicle Information

Esc Enter

VCI 14:21

Multiple OBD Functions

Multiple OBD Functions

Read Codes

Clear Codes

Live Data Stream

VIN Info Restrive

DTC Lookup

Freeze Frame

More ...

4.2 Diagnostic Functions

The MT510 offers comprehensive diagnostic capabilities for various motorcycle systems, including Engine, ABS, Instrument Cluster, and more.

- **Read and Clear Fault Codes:** Access and erase Diagnostic Trouble Codes (DTCs) to identify and resolve issues.
- **Live Data Streaming:** Monitor real-time data from sensors and modules in graphical or numerical form. This helps in identifying abnormalities.
- **Freeze Frame Data:** View a snapshot of sensor values at the moment a fault code was triggered.
- **ECU Information:** Retrieve detailed information about the Engine Control Unit.
- **Component Testing:** Perform active tests on various components.
- **VIN Auto Detection:** Automatically detect and read the Vehicle Identification Number.

UP TO 30+ HOT RESET FUNCTIONS

Add practical functions to facilitate repair

Oil Reset ABS Bleeding Idle Speed Learning Throttle Matching

Mixture Reset ECU Reset TPS Reset More

- ✓ AUTO VIN
- ✓ EOL Mode
- ✓ CO Adjustment
- ✓ Clear Computer Memory
- ✓ Tire Pressure Monitoring System
- ✓ Transmission Reset
- ✓ Control Module Programming and Coding

The image shows a motorcycle on the left and the ANCEL MT510 diagnostic tool on the right. The tool's screen displays a menu with options like 'Service', 'Europe', 'Favorites', 'All', 'OIL/SERVICE RESET', 'TPS', and 'ECU RESET'. A grid of buttons for various motorcycle brands (BMW, DUCATI, KTM, TRIUMPH) is also visible. The bottom of the screen shows a status bar with 'VCI' and a time of 15:54.

EXPERT TECHNICAL SERVICE TEAM

ANCEL MT510 ★★★★★

Motorcycle Efficient, cost-effective solutions

24/7
technical support

1 YEAR
of free updates

30-DAY
return policy

Reliable
Tech support

Avoid marine
repair hassles

Save time
and effort

Image: Multiple OBD functions including live data stream, VIN info retrieval, DTC lookup, and freeze frame.

Image: Three display methods for live data: graphs, tables, and dashboards.

Image: Automatic VIN detection feature for quick vehicle identification.

4.3 Special Functions (30+ Reset Functions)

The MT510 provides over 30 special functions for maintenance and repair:

- **Oil Service Reset:** Reset the oil service reminder after an oil change.
- **TPS Reset:** Calibrate the Throttle Position Sensor for optimal throttle response.
- **ECU Reset:** Reset the Engine Control Unit to clear learned values and resolve performance issues.
- **ABS Bleeding:** Perform ABS system bleeding procedures.
- **VIN (Chassis Number) Writing:** Write or update the VIN.
- **Cylinder MAP Vacuum Adjustment:** Adjust cylinder mapping.
- **Enable/Disable Functions:** Control ABS, RTS, Heated grips, Anti-theft systems.
- **PIN Code Reset:** Reset PIN codes.
- **Keys' Reset:** Reset key programming.
- **BAS Tuning:** Perform BAS (Brake Assist System) tuning.
- **CO and Idle Parameters Reset:** Reset carbon monoxide and idle parameters.
- And more.

Advanced Technical Support Customized For You

Teamviewer Remote Support



Update

One-click Update



Record

Data Record & Replay & Print



Feedback

Online Feedback



Management

Data Management



Image: Overview of over 30 hot reset functions available on the MT510.



Image: Resetting the oil service light using the MT510.



Image: Advanced relearn and reset functions for comprehensive motorcycle problem resolution.

4.4 Supported Ducati Models

The MT510 is compatible with a wide range of Ducati models for basic diagnostics until October 2023, including:

- Panigale
- Monster
- Multistrada
- Scrambler
- Diavel
- Hypermotard
- And more.

Optimized Hardware & Software Configuration

More speed and powerful



Android 5.1.1 OS



800*480 Screen Pixels



13G ROM



32G SD Card



WIFI



8 Languages



5.0" Touchscreen



More

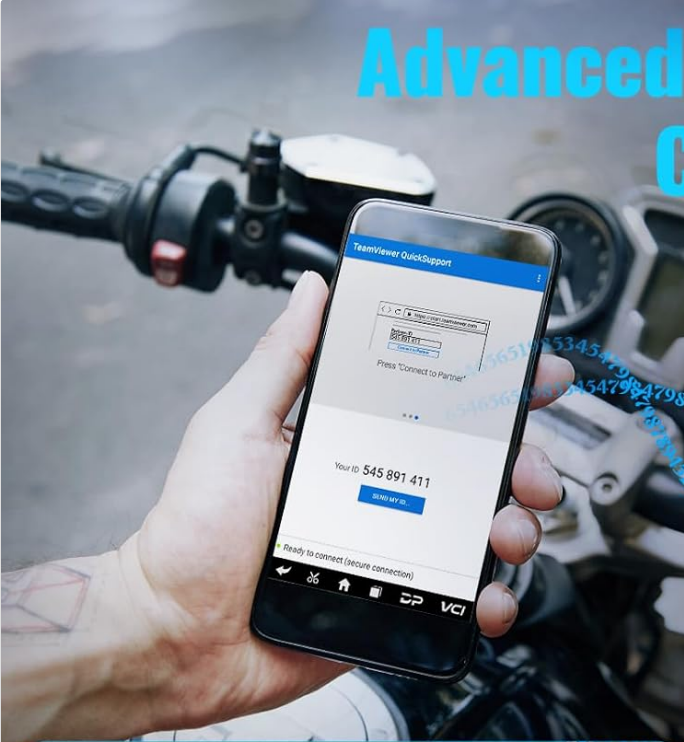
Image: Supported Ducati models for the ANCEL MT510 diagnostic tool.

4.5 Data Management and Updates

- **Data Record & Replay:** Record diagnostic data for later review and analysis.
- **One-click Update:** Easily update the software to ensure access to the latest features and vehicle compatibility.
- **Online Feedback:** Submit feedback directly through the device.
- **Teamviewer Remote Support:** Access remote technical support if needed.

Advanced Technical Support Customized For You

Teamviewer Remote Support




Update

One-click Update



Record

Data Record & Replay & Print



Feedback

Online Feedback



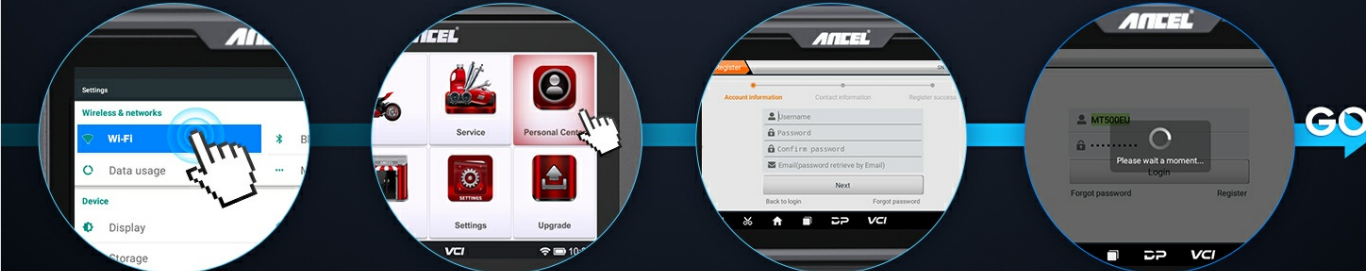
Management

Data Management



Image: Advanced technical support features including one-click update, data recording, online feedback, and Teamviewer remote support.

How to use MT500 PLUS?



- [1]** Click Settings, Connect to WIFI
- [2]** Click "DP" to upgrade
- [3]** Login Username and Password
- [4]** Download Software, Start diagnosis

GO

Image: One-click upgrade and screenshot functionality.

5. SPECIFICATIONS

Feature	Description
Model	MT510-DT
Operating System	Android 5.0
Screen	5.0 inch Touch Screen (800*480 Pixels)
Memory	1GB RAM / 8GB ROM (internal), 32GB SD Card (external)
Connectivity	Wi-Fi
Weight	2.51 pounds
Dimensions	12.76 x 9.49 x 2.83 inches
Supported Languages	English, Spanish, French, Italian, German, Polish, Russian, Portuguese

FULL OBD TEST FOR MOTORCYCLE MAKERS

Scan, Fix and Erase

Live Data Stream



Read Codes & Clear Codes



VIN Info Restrive



DTC Lookup



Freeze Frame

Image: Optimized hardware and software configuration details of the MT510.

ANCEL MT510 FIT FOR DUCATI MOTORCYCLE DIAGNOSIS All-In-One Tablet Diagnostic Tool

30+

30+ Reset Functions

All

All-System Diagnostic

5"

5 inch Touch Screen

VIN

Auto VIN



Remote Support



ONE CLICK UPDATE



Image: Multi-language system support for the MT510.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the ANCEL MT510.

6.1 Common Issues and Solutions

- **Device Not Powering On:**
 - Ensure the device is fully charged. Connect the 12V charger and allow it to charge for at least 30 minutes before attempting to power on again.
 - Verify the power adapter and cable are securely connected and functional.
- **Connection Errors (Motorcycle):**
 - Confirm the diagnostic cable (M037 for Ducati) is correctly and securely connected to both the MT510 and the motorcycle's diagnostic port.
 - Ensure the motorcycle's ignition is turned ON.
 - Verify that the correct motorcycle model and year are selected in the MT510 software.
- **Software Not Responding / Freezing:**
 - Restart the device.
 - Ensure the software is up to date. Perform a "One-click Update" if available.
 - If the issue persists, contact customer support for assistance.
- **Error Code P1607 (Data Buffer - Unreasonable Signal):**
 - This indicates the memory area is full and a 'data buffer reset' function needs to be performed.
 - It is recommended to carefully check the components of the injection system first, as data saturation can be a symptom of faulty connections with injection system components.

OE-LEVEL FULL SYSTEM DIAGNOSIS

In-depth diagnosis of your motorcycle to quickly identify problems



Image: Explanation of error code P1607 and its implications.

6.2 Video Guide: ANCEL MT510 for Ducati Motorcycle Code Scanner

Your browser does not support the video tag.

Video: An official product video demonstrating the features and usage of the ANCEL MT510 for Ducati motorcycles, including its code scanning capabilities.

7. WARRANTY AND SUPPORT

ANCEL provides comprehensive support for the MT510 diagnostic tool:

- **Free Lifetime Customer Support:** Contact toptool-service@outlook.com for assistance.
- **One Year Free Software Updates:** Ensures access to the latest diagnostic capabilities and compatibility.
- **30-Day Return Policy:** For hassle-free returns.
- **24/7 Technical Support:** Dedicated support team available.



Image: ANCEL's expert technical service team and support offerings.