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› ANCEL MT500 PRO Motorcycle Scanner User Manual

ANCEL MT500 PRO

ANCEL MT500 PRO Motorcycle Scanner User Manual

Model: MT500 PRO | Brand: ANCEL

1. INTRODUCTION

The ANCEL MT500 PRO Motorcycle Scanner is a professional diagnostic tool designed for comprehensive system analysis and maintenance of various motorcycle brands. This manual provides detailed instructions for setup, operation, and utilization of its advanced features.

1.1 What's in the Box

- 1x ANCEL MT500 PRO Motorcycle Diagnostic Tool
- 1x 12V 2A DC Power Adapter
- 1x OBD2 Main Cable
- 1x User's Manual
- 9x Adapter Cables (brand-specific)



Figure 1.1: ANCEL MT500 PRO Main Unit

WHAT'S IN THE BOX?

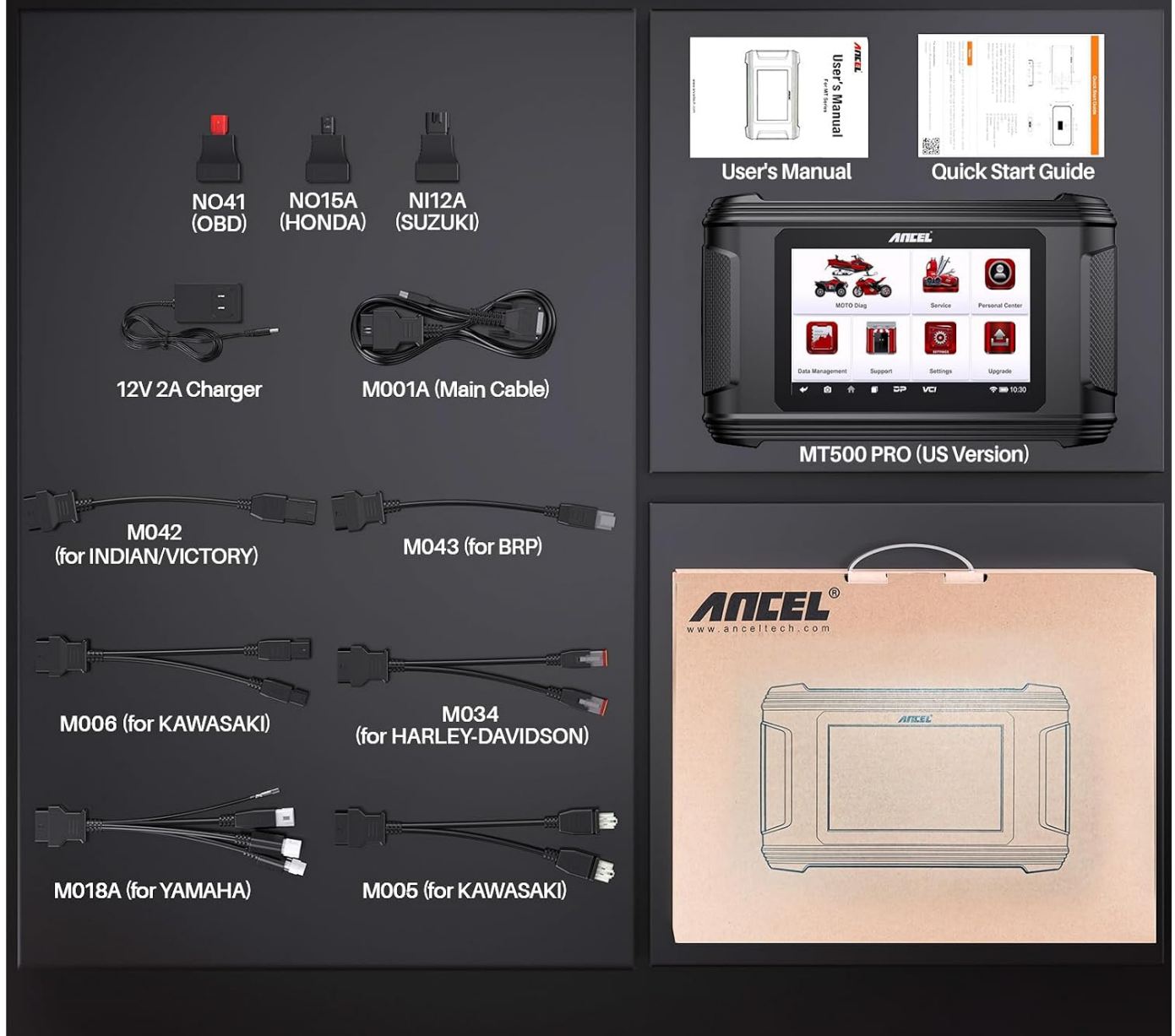


Figure 1.2: Included Components

2. SETUP AND INITIAL CONFIGURATION

2.1 Initial Power-Up and Software Update

Before first use, ensure the device is fully charged using the provided 12V 2A DC Power Adapter. After charging, register the device and perform necessary software updates via Wi-Fi to ensure access to the latest diagnostic information and vehicle coverage.

2.2 Connecting to Your Motorcycle

Locate the diagnostic port on your motorcycle. This often requires removing the seat or a side panel. Select the appropriate adapter cable from the included set (e.g., 4-pin or 6-pin for Harley-Davidson, or other brand-specific adapters) and connect it to the motorcycle's diagnostic port. Then, connect the main cable to the adapter and to the MT500 PRO

unit.

Video 2.1: Demonstrates unboxing, locating the diagnostic port on a Harley-Davidson, and connecting the ANCEL MT500 PRO scanner.

3. DEVICE COMPONENTS AND CABLES

The ANCEL MT500 PRO features a 5-inch HD touchscreen for intuitive navigation. It is powered by an Android 5.1.1 operating system and includes 32GB of ROM for storing diagnostic data and software.

3.1 Adapter Cables

The scanner comes with 9 brand-specific adapter cables to ensure wide compatibility across various motorcycle manufacturers. These include cables for Harley-Davidson, Honda, Kawasaki, Yamaha, Indian, Suzuki, Polaris, BRP, and Victory models.



Figure 3.1: Advanced Hardware & Software Configuration

Upgraded Version of Motorcycle Diagnostic Scanner



Features	MT500 PRO(US Version)	Other
Screen	5" Touch Screen	Handheld/Wifi
Application	Honda/Yamaha/Kawasaki/Suzuki/Harley/ Indian/Polaris/BRP/Victory	Only for Honda
Diagnostic System	All System Scan: Engine,Meter,ABS,TPMS.....	Partial Scan: Engine, ABS
Advanced Functions	30+, Oil Lamp Reset	×
Intelligent Diagnosis	Diag Socket Marking	×
	Diag Connector Guide	×
	Technical Bulletin	×
	Fault Codes Guide	×
	Live Data in Graph	×
	Live Data in Diagram	×
Multi-languages	✓	✓
Remote Assistance	✓	×
Upgrade	One-key Update	No update/Need VIN
Acesories	9*Adapter Cables(worth over \$150)	×

Figure 3.2: MT500 PRO Features Overview

4. OPERATING THE SCANNER

4.1 Navigating the Interface

The 5-inch HD touchscreen provides an intuitive interface. Use the touch controls or physical buttons to navigate through menus and select functions. The device supports 8 languages for user convenience.

4.2 Performing Diagnostics

The MT500 PRO offers OEM-level full system diagnostics. It can automatically detect your vehicle's VIN and perform a comprehensive scan of systems including ABS, ignition, fuel injection, battery, ECU, transmission, and TPMS. This allows for quick identification of issues.

4.3 Service Functions

The tool supports over 30 service functions, including ABS bleeding, throttle reset, oil light reset, service light reset, and ECU reset. These functions assist in routine maintenance tasks.

Video 4.1: Overview of the MT510 (similar to MT500 PRO) user interface, diagnostic capabilities, and special functions.



Figure 4.1: Full System Diagnoses

30+ SERVICE FUNCTIONS

- ✓ Auto VIN & Scan
- ✓ Maintenance Light Reset
- ✓ Instrument Coding
- ✓ ECU Setting
- ✓ Idle Speed Adjustment
- ✓ ABS Control Unit Setting
- ✓ A/F Value Reset
- ✓ Clear Computer Memory
- ✓ EOL Mode
- ✓ Tire Pressure Monitoring System
- ✓ Transmission Memory Reset
- ✓ CO Adjustment



Figure 4.2: 30+ Service Functions

5. KEY FEATURES

5.1 Wide Compatibility

The ANCEL MT500 PRO supports over 1000 types of motorcycles across 9 major brands: Harley-Davidson, Honda, Kawasaki, Yamaha, Indian, Suzuki, BRP, Polaris, and Victory.

MOTORCYCLE COVERAGE



Fit for HONDA



Fit for YAMAHA



Fit for KAWASAKI

Fit for BRP



Fit for INDIAN



Fit for SUZUKI



Fit for POLARIS



Fit for HARLEY-DAVIDSON



Fit for VICTORY

Figure 5.1: Motorcycle Brand Coverage



Figure 5.2: Suitable for Many Types of Motorcycles

5.2 Accurate Problem Pinpointing

The tool supports active tests to help distinguish between software and hardware faults, enabling quick identification of the root cause of issues.

5.3 User-Friendly Design

Designed for DIY users, the MT500 PRO includes essential functions like reading/clearing fault codes, live data display, freeze frame data, one-touch Wi-Fi updates, and screenshot capabilities.

6. MAINTENANCE

Keep the device clean and free from dust and moisture. Store it within the recommended temperature range of -4°F to

158°F (-20°C to 70°C). Regularly check for and install software updates to ensure optimal performance and expanded vehicle coverage.

7. TROUBLESHOOTING AND SUPPORT

If you encounter any issues, the device supports remote technical assistance. Common repair guides are also available to aid in troubleshooting. For specific technical support, you can contact the service team.



Figure 7.1: Remote Control Technical Support

8. SPECIFICATIONS

Attribute	Value
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Manufacturer	ANCEL
Item Weight	4.95 pounds
Product Dimensions	11.8 x 3.9 x 7.8 inches
Item Model Number	MT500 PRO
Batteries	1 Lithium Ion batteries required (included)
Operating System	Android 5.1.1
Display Resolution	800x480
Operating Temperature	14°F to 131°F (-10°C to 55°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)

9. WARRANTY AND SUPPORT

The ANCEL MT500 PRO comes with 1 year of free software updates. Optional annual updates are available thereafter. For any inquiries or technical assistance, please contact: toptool-service@outlook.com.

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