BLUETOOTH OBD II SCANNER (MP7438)

Suitable for 12V Vehicles only.

USER MANUAL

Please read and follow this operating manual and all safety instructions before using this device.
Keep these instructions for future reference. When passing the device on to others be sure to also include all documentation. The instruction leaflet is also available on our website **www.maypoleltd.com**

PRODUCT SAFETY

- Never use the scanner if the connector is damaged.
- Never use the scanner if it has been dropped or damaged in any way.
- For indoor use only, **do not** expose to rain or any other forms of liquid or moisture.
- There are no user-serviceable parts in this product. Opening the case is dangerous and electrical repairs or replacement of the cable should only be carried out by the manufacturer, its service agent or a suitably qualified electrician / electrical technician in order to avoid a hazard. Resultant damage to the product will result in the loss of your guarantee.
- DO NOT connect or disconnect any test equipment while the ignition is on or the engine is running.
- Ensure the vehicle is in park mode or neutral with the handbrake engaged before using the device.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Never leave the vehicle unattended while using the device.
- Operate the vehicle in a well ventilated work area: Exhaust gases are poisonous.
- Do not leave the device in open sunlight, in extreme frost or a humid environment.
- Do not place the device close to sources of electromagnetic radiation; as this may cause malfunction or damage.
- Do not leave the device in the OBDII port of your vehicle after finishing the tests.

GENERAL SAFETY

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the appliance. Cleaning and user maintenance must not be undertaken by children without supervision.

Keep clothing, hair, hands, tools, test equipment away from all moving parts or hot engine parts.

The use of safety goggles, clothing protection and gloves is strongly advised.

Only use this product for the purposes described in this instruction booklet. Failure to do so will result in the loss of your guarantee. The manufacturer will not accept liability for damage to the charger, persons or property resulting from incorrect usage or failing to follow the instructions in this booklet.

DISPOSAL
In the event that this product must be disposed of, an authorized place for the recycling of electrical and electronic appliances must be sought. Contact your local authority for information concerning local Household Recycling Centres with applicable facilities.
This product must not be disposed of with general domestic waste.

General information – on board diagnostics (OBD) II

The OBD II system is designed to monitor emission control systems and key engine components by performing either continuous or periodic tests of specific components and vehicle conditions. When a problem is detected, the OBD II system activates a malfunction indicator lamp (MIL) also known as a check engine light (CEL) on the vehicle instrument panel to alert the driver. The system will also store important information about the detected malfunction so that a technician can accurately find and fix the problem.

Location of the OBDII Port

The OBDII port is the standardized 16-cavity connector where diagnostic scan tools interface with the vehicle's on-board computer. The OBDII port is usually located 12 inches from the centre of the instrument panel (dash), under or around the driver's side for most vehicles. If a OBDII port is not located under dashboard, a label should be present advising the location. For some Asian and European vehicles, the OBDII port is located behind the ashtray and the ashtray must be removed to access it. If the OBDII port cannot be found, refer to the vehicle's service manual for the location.

Installation

Ensure the ignition is turned off.

Locate the vehicle's 16-pin OBDII port.

Connect the scanner's cable connector to the vehicle's OBDII port. The connector will only fit one way. If you cannot connect the connector try rotating the connector 180° and try again.

Activate the device power by pressing the button on the front panel (the indicator light on the front panel will light up).

Turn the ignition on.

Bluetooth Connection

IOS 11 or later or android phones with Bluetooth BLE VER 4.0 is required to connect the scanner.

Scan the below QR code to download the FREE app of search 'Car Scanner ELM OBD2' in the apple store or google play:

IOS

ANDROID

Download and install the app

The scanner is also compatible with the following apps: Torque, DashCommand & Auto Doctor.

Operation

Make sure Bluetooth is enabled on your smart phone.

Open the car scanner app.

Select the appropriate car set up options.

Select ‘connect’ on the home page (FIG A). Select ‘KONWEI’ from the Bluetooth devices (FIG B). Once connected ELM & ECU will state ‘Connected’ (FIG C)

FIG A

FIG B

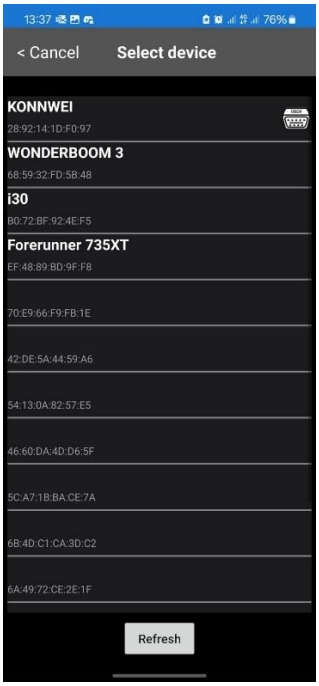

FIG C

Once connected the car scanner will now automatically link to the vehicle's computer where you can access the following features on the app:

- I/M Readiness
- Live data stream
- Battery voltage check
- Freeze frame
- O2 sensor check
- Evap system test
- On-board monitoring
- Trip Analysis
- Vehicle information (retrieve VIN numbers)
- Acceleration test

Vehicle Coverage

This scanner is specially designed to work with all OBD II compliant vehicles, including those equipped with the next-generation protocol — Control Area Network (CAN). All 1996 and newer vehicles (cars and light trucks) must be OBD II compliant

For your vehicle to be OBD II compliant it must have a 16-pin OBDII port under the dash and the Vehicle Emission Control Information Label must state that the vehicle is OBD II compliant.

NOTE – Hybrid & fully electric cars are not fully supported by this code scanner.

Troubleshooting

Fault	Possible Solution
The scanner cannot find 'KONWEI' on the bluetooth network	Check if the scanner has power (front LED is illuminated)
	Check the power supply of the vehicle (12V only)
	Check the car ignition is on
	Turn off the ignition, remove the scanner, re-insert it, turn on the ignition
	Try finding the bluetooth network on another device
The scanner disconnects during operation	Ensure that high power devices are not charged through the cigarette lighter during operation. This can affect the stability of the scanner.
The scanner cannot connect to the ECU (Engine Control Unit)	The ECU installed on the vehicle may not be compatible with the device or could be locked by the manufacturer; an alternative device maybe required. Ensure only one app is running at a time.

TECHNICAL SPECIFICATIONS

Voltage	12V
Supported Protocols	SAE J1850 PWM (41.6Kbaud), SAE J1850 VPW (10.4Kbaud), ISO9141-2 (5 baud init, 10.4Kbaud), ISO14230-4 KWP (5 baud init, 10.4 Kbaud), ISO14230-4 KWP(fast init, 10.4 Kbaud), ISO15765-4 CAN (11bit ID, 500 Kbaud), ISO15765-4 CAN (29bit ID, 500 Kbaud), ISO15765-4 CAN (11bit ID, 250 Kbaud), ISO15765-4 CAN (29bit ID, 250 Kbaud)
Smart Phone Operating System	IOS 11 or later. Android phones
Smart Phone Bluetooth Hardware	BLE4.0
Bluetooth range	8m
Working temperature	0°C- 50°C
Weight	60g
Size	H x 25mm W x 45mm D x 40mm

MAINTENANCE INSTRUCTIONS

This scanner requires minimal maintenance. As with any appliance or tool, a few common sense rules will prolong the life of the device.
ALWAYS BE SURE THE SCANNER IS DISCONECTED FROM THE OBDII PORT BEFORE PERFORMING ANY MAINTENANCE OR CLEANING.
1. Store in a clean, dry place to avoid moisture damage.
2. Loosely coil up the leads when not in use.
3. Clean the case and leads with a slightly damp cloth.
4. Examine the leads periodically for cracking or other damage and have them replaced if necessary.
5. All other service should be done by qualified personnel only.

DECLARATION OF CONFORMITY

We declare that this product conforms to the following standards:

CE

EMC Directive 2014/53/EU
ROHS 2011/65/EU Annex II and its subsequent amendments Directive (EU) 2015/863

Technical Manager Maypole Ltd June 2024

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