MOTOPOWER MP69040

MOTOPOWER MP69040 OBD2 Scanner User Manual

Engine Fault Code Reader & Diagnostic Tool

1. Introduction

Thank you for choosing the MOTOPOWER MP69040 OBD2 Scanner. This device is designed to diagnose engine fault codes, monitor vehicle performance, and assist in maintaining your vehicle's health. It is compatible with all OBD II protocol cars, light trucks, and SUVs manufactured in the USA (1996 and newer), EU (2003 and newer), and Asia (2008 and newer).
This manual provides essential information for the safe and effective operation of your MP69040 scanner. Please read it thoroughly before use and keep it for future reference.

2. Safety Information

- Always perform automotive testing in a safe environment.
- Wear eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc., away from all moving or hot engine parts.
- 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 a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.

3. Package Contents

Your MOTOPOWER MP69040 package should include:

- MOTOPOWER MP69040 OBD2 Scanner Unit
- User Manual
- USB Type-C Cable (for updates and printing)

4. Device Overview

Figure 4.1: Front view of the MOTOPOWER MP69040 OBD2 Scanner, showing the display screen, navigation buttons, and integrated OBD-II cable.

4.1. Key Components

- **2.8-inch TFT Color Screen:** Displays diagnostic information clearly.
- **OBD-II Connector Cable:** Connects the scanner to your vehicle's OBD-II port.

- **Navigation Buttons:**
  - **UP/DOWN Arrows:** Scroll through menu options.
  - **LEFT/RIGHT Arrows:** Navigate within menus or change values.
  - **ENTER Button:** Confirms selections.
  - **BACK Button:** Returns to the previous screen.
  - **DTC Button:** Quick access to Diagnostic Trouble Codes.
  - **I/M Button:** Quick access to I/M Readiness status.
  - **LDS (Live Data Stream) Button:** Quick access to live data.
- **USB Type-C Port:** For connecting to a computer for software updates and data printing.

5. Setup and Connection

5.1. Initial Setup

The MOTOPOWER MP69040 scanner does not require batteries for operation as it draws power directly from your vehicle's OBD-II port.

5.2. Connecting to Your Vehicle

1. Locate the 16-pin Data Link Connector (DLC) on your vehicle. This port is usually located under the dashboard, on the driver's side.
2. Ensure the vehicle's ignition is OFF.
3. Firmly plug the scanner's OBD-II connector into the vehicle's DLC.
4. Turn the vehicle's ignition to the ON position (engine off or running, depending on the test). The scanner will automatically power on and establish communication with the vehicle's onboard computer.

Figure 5.1: The MP69040 scanner connected to a vehicle, illustrating its use for all OBD II/EOBD systems.

6. Operating Instructions

Once connected and powered on, the scanner will display the main menu. Use the UP/DOWN arrow buttons to navigate and the ENTER button to select an option.

Figure 6.1: The user-friendly interface of the MP69040, featuring a 2.8-inch high-definition color screen with various diagnostic functions.

6.1. Read Codes

This function retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's computer. These codes indicate specific issues detected by the vehicle's self-diagnostic system.

1. From the main menu, select "Read Codes" or press the dedicated**DTC** button.
2. The scanner will display any stored, pending, or permanent codes.
3. Use the UP/DOWN arrows to scroll through the codes and their descriptions.

6.2. Erase Codes

This function clears all DTCs and turns off the Malfunction Indicator Lamp (MIL), also known as the Check Engine Light. **Warning:** Clearing codes without addressing the underlying issue will likely result in the codes reappearing.

1. From the main menu, select "Erase Codes".
2. Confirm your selection when prompted.
3. The MIL should turn off, and all diagnostic data will be reset.

6.3. Live Data Stream

View real-time operational data from the vehicle's sensors and components. This can help identify intermittent problems or verify repairs.

1. From the main menu, select "Live Data Stream" or press the dedicated **LDS** button.
2. The scanner will display a list of available data parameters (e.g., engine RPM, coolant temperature, vehicle speed, O2 sensor readings).
3. You can view data in text or graphical format. Use the navigation buttons to switch views or select specific parameters.

Figure 6.2: The MP69040 displaying live data, such as FRP (PSI), to help track down car problems with more accurate diagnosis.

6.4. I/M Readiness

This function checks the status of the vehicle's emission-related monitoring systems to determine if they are ready for an emissions test (smog check).

1. From the main menu, select "I/M Readiness" or press the dedicated **I/M** button.
2. The scanner will display the status of various monitors (e.g., Misfire Monitor, Fuel System Monitor, O2 Sensor

Monitor) as either "OK" (complete) or "INC" (incomplete).

6.5. Freeze Frame Data

When an emission-related fault occurs, the vehicle's computer stores a snapshot of operating conditions at the time of the fault. This data is called Freeze Frame Data.

1. From the main menu, select "Freeze Frame".
2. Review the recorded parameters to understand the conditions under which the fault occurred.

6.6. Vehicle Information (VIN)

This function retrieves the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN) of the vehicle.

1. From the main menu, select "VIN" or "Vehicle Info".
2. The scanner will display the requested vehicle information.

6.7. O2 Sensor Test

This function allows retrieval and viewing of O2 sensor monitor test results for the most recently completed tests from the vehicle's onboard computer.

6.8. On-Board Monitor Test

This function is useful for determining if the vehicle's monitors are functioning correctly and if they are ready for an emissions test.

7. Maintenance

7.1. Software Updates

The MOTOPOWER MP69040 offers lifetime free software updates to ensure compatibility with new vehicle models and diagnostic protocols. Updates are performed via a computer running Windows 7/8/10.

1. Visit the official MOTOPOWER website to download the latest update software.
2. Install the software on your Windows computer.
3. Connect the MP69040 scanner to your computer using the provided USB Type-C cable.
4. Follow the on-screen instructions in the update software to complete the update process.

Figure 7.1: The MP69040 connected to a computer, demonstrating the easy print, view, and update capabilities.

7.2. Cleaning

To clean the scanner, use a soft, damp cloth. Do not use abrasive cleaners or solvents. Keep the device free from dust and moisture.

8. Troubleshooting

Problem	Possible Cause	Solution
Scanner does not power on.	Loose connection to DLC; Vehicle ignition off; Vehicle not OBD-II compliant.	Ensure secure connection; Turn ignition ON; Verify vehicle compatibility.
Communication error with vehicle.	Faulty connection; Incorrect protocol; Vehicle's ECU issue.	Check cable connection; Ensure vehicle is OBD-II compliant; Try on another vehicle if possible.

Problem	Possible Cause	Solution
Codes cannot be cleared.	Ignition not ON; Underlying fault still present.	Ensure ignition is ON (engine off); Repair the fault before attempting to clear codes.
Screen is frozen.	Software glitch.	Disconnect from vehicle, then reconnect. If issue persists, perform a software update.

9. Specifications

- **Model:** MP69040
- **Display:** 2.8-inch TFT Color Screen
- **Operating Voltage:** 9-16V (powered by vehicle OBD-II port)
- **Operating Temperature:** 0°C to 60°C (32°F to 140°F)
- **Storage Temperature:** -20°C to 70°C (-4°F to 158°F)
- **Dimensions:** 9.7 cm (L) x 2.7 cm (W) x 16 cm (H)
- **Weight:** 300 grams
- **Supported Protocols:** KWP2000, J1850 VPW, ISO9141, J1850 PWM, CAN
- **DTC Database:** Over 100,000 codes
- **Update Method:** USB Type-C via Windows PC (7/8/10)

10. Vehicle Compatibility

The MP69040 is compatible with most OBD-II compliant vehicles, including:

- US-based vehicles: 1996 and newer
- EU-based vehicles: 2003 and newer
- Asian-based vehicles: 2008 and newer

It supports all OBDII protocols: KWP2000, J1850 VPW, ISO9141, J1850 PWM, and CAN. Please note that it is not compatible with new energy vehicles or hybrid vehicles.
For detailed compatibility by make and model, please refer to the compatibility chart provided with your product or on the MOTOPOWER website. An example of such a chart is shown below:

Check OBD compatibility of your vehicle

OBDII Generic Communication Protocols by Manufacturer

Make - Model	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Audi/VW	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO9141 KWP2000	ISO9141 KWP2000	ISO9141 KWP2000	ISO9141 KWP2000 CAN	ISO9141 KWP2000 CAN	ISO9141 KWP2000 CAN	CAN
Bentley	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141 (50%) KWP2000 (50%)	ISO 9141 (35%) KWP2000 (65%)	ISO 9141 (20%) KWP2000 (80%)	CAN	CAN
BMW - Mini	N/A	N/A	N/A	N/A	N/A	N/A	KWP2000	KWP2000	KWP2000	KWP2000			
BMW 3-Series, 5-Series, X5, Z3, Z4, Z8, 740i, 740iL, 750iL	ISO 9141/2	ISO 9141/2	ISO 9141/2	ISO 9141/2	ISO 9141/2	ISO 9141/2	ISO 9141/2	ISO 9141/2	ISO 9141/2	ISO 9141/2			
BMW 5-Series; next generation (E60)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	KWP2000	KWP2000			
BMW 745i, 745Li, 765Li	N/A	N/A	N/A	N/A	N/A	N/A	KWP2000	KWP2000	KWP2000	KWP2000			
Chrysler	ISO 9141-2 (100%)	ISO 9141-2 (100%)	ISO 9141-2 (95%) J1850-10.4 (5%)	ISO 9141-2 (85%) J1850-10.4 (15%)	ISO 9141-2 (75%) J1850-10.4 (25%)	ISO 9141-2 (35%) J1850-10.4 (65%)	ISO 9141-2 (15%) J1850-10.4 (85%)	ISO 9141-2 (5%) J1850-10.4 (95%)	CAN -5% J1850-10.4 (95%)	CAN -15% J1850-10.4 (85%)	CAN -35% J1850-10.4 (65%)	CAN -85% J1850-10.4 (15%)	CAN -100%
Daewoo-Lanos	N/A	N/A	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	N/A					
Daewoo-Leganza	N/A	N/A	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	KWP2000	KWP2000					
Daewoo-Nubira	N/A	N/A	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	KWP2000	KWP2000					
Ford	J1850-41.6	J1850-41.6	J1850-41.6	J1850-41.6	J1850-41.6	J1850-41.6	0% CAN	5% CAN	50% CAN	85% CAN	90% CAN	100% CAN	100% CAN
GM (w/o exceptions)	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	80% J1850-10.4 15% CAN 5% KWP2000	55% J1850-10.4 40% CAN 5% KWP2000	25% J1850-10.4 70% CAN 5% KWP2000	25% J1850-10.4 70% CAN 5% KWP2000	100% CAN
exceptions:													
Saturn LS 3.0L	N/A	N/A	N/A	N/A	KWP2000	KWP2000	KWP2000	KWP2000					
Saturn VUE 3.0L	N/A	N/A	N/A	N/A	N/A	N/A	KWP2000	KWP2000					
Saturn VUE 3.5L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	KWP2000					
Saturn ION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CAN					
Cadillac Catera	N/A	KWP2000	KWP2000	KWP2000	KWP2000	KWP2000	N/A	N/A					
Cadillac CTS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	KWP2000	Refer to the row above labeled GM (w/o exceptions)				
GEO Metro	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	N/A	N/A				
GEO Prism	J1850-10.4	J1850-10.4	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	N/A					
GEO Tracker	ISO 9141	ISO 9141	ISO 9141	KWP2000	KWP2000	KWP2000	KWP2000	KWP2000					
Pontaic Vibe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ISO 9141					
Saab 9-3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CAN					
Kia Sorento	N/A	N/A	N/A	N/A	N/A	N/A	N/A	KWP 2000					
Honda/Acura	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	70% ISO 9141 30% CAN	40% ISO 9141 60% CAN	CAN
Hyundai	ISO 9141	ISO 9141	ISO 9141	KWP2000	ISO 9141 KWP2000	ISO 9141 KWP2000	ISO 9141 KWP2000	ISO 9141 KWP2000	ISO 9141 KWP2000	ISO 9141 KWP2000	ISO 9141 KWP2000	ISO 9141 KWP2000	CAN
Isuzu	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	J1850-10.4	UNKOWN	UNKNOWN	UNKNOWN
Jaguar	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141		
Kia - Optima	N/A	N/A	N/A	N/A	N/A	KWP 2000	KWP 2000	KWP 2000					
Kia - Rio	N/A	N/A	N/A	N/A	N/A	ISO 9141	ISO 9141	ISO 9141					
Kia - Sephia	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kia - Spectra	N/A	N/A	N/A	N/A	ISO 9141	ISO 9141	ISO 9141	ISO 9141					
Kia - Sportage	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141					
Kia Sedona	N/A	N/A	N/A	N/A	N/A	N/A	ISO 9141	ISO 9141					
Kia Sorento	N/A	N/A	N/A	N/A	N/A	N/A	N/A	KWP 2000					
Land Rover	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	0% CAN	0% CAN	0% CAN	62% CAN	100% CAN	100% CAN	100% CAN
Mazda	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	75%-ISO 9141 25%-CAN	60%-CAN 40%-ISO 9141	60%-CAN 40%-ISO 9141	CAN	CAN	CAN
Mazda-Ford	J1850-41.6	J1850-41.6	J1850-41.6	J1850-41.6	J1850-41.6	J1850-41.6	J1850-41.6	J1850-41.6	J1850-41.6	50%-J 1850 50%-CAN	50%-J 1850 50%-CAN	Tribute-CAN Truck?	?
Mercedes	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141 KWP 2000	ISO 9141 KWP 2000	ISO 9141 KWP 2000	KWP 2000	KWP 2000 CAN	KWP 2000 CAN	KWP 2000 CAN	KWP 2000 CAN	CAN
Mitsubishi	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141							
Nissan/Infiniti	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	TBD	TBD	CAN	CAN
Porsche	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141					
Rolls Royce	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	KWP 2000	KWP 2000			
Subaru	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141 KWP 2000	ISO 9141 KWP 2000	KWP 2000	CAN	CAN	CAN
Suzuki Aerio 2.0L	N/A	N/A	N/A	N/A	N/A	N/A	KWP 2000	KWP 2000	KWP 2000	KWP 2000	KWP 2000	CAN	CAN
Suzuki Esteem 1.6L	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	N/A	N/A	N/A	N/A	N/A	N/A
Suzuki Esteem 1.8L	N/A	N/A	N/A	ISO 9141	ISO 9141	ISO 9141	ISO 9141	N/A	N/A	N/A	N/A	N/A	N/A
Suzuki Grand Vitara 2.5L	N/A	N/A	N/A	ISO 9141	ISO 9141	ISO 9141	ISO 9141	KWP 2000	KWP 2000	KWP 2000	KWP 2000	CAN	CAN
Suzuki Grand Vitara 2.7L	N/A	N/A	N/A	N/A	N/A	KWP 2000	KWP 2000	KWP 2000	KWP 2000	KWP 2000	KWP 2000	CAN	CAN
Suzuki Sidekick 1.6L	ISO 9141	ISO 9141	ISO 9141	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Suzuki Sidekick 1.8L	ISO 9141	ISO 9141	ISO 9141	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Suzuki Swift 1.3L	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Suzuki Vitara 1.6L	N/A	N/A	N/A	ISO 9141	ISO 9141	ISO 9141	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Suzuki Vitara 2.0L	N/A	N/A	N/A	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	CAN	CAN
Suzuki X90 1.6L	ISO 9141	ISO 9141	ISO 9141	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toyota/Lexus	J1850-10.4	J1850-10.4 / ISO 9141	J1850-10.4 / ISO 9141	J1850-10.4 / ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141 / CAN	ISO 9141 / CAN	ISO 9141 / CAN	TBD	TBD
Volvo	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	ISO 9141	90% ISO 9141 10% CAN	5% ISO 9141 95% CAN	CAN	CAN	CAN

Note 1:	*For 2002 MY and later, non-CAN Ford vehicles will be SCP (J1850-41.6) unless otherwise noted below.	
		1996- 1.8L Escort Protocol ISO-9141
		(Mazda engine)
		1996&1997- 2.5L Probe Protocol ISO-9141
		(Mazda engine)
		1996&1997- All Aspire Protocol ISO-9141
		(Mazda Engine)
		All Model Years- Mercury Villagers Protocol ISO-9141 (Nissan Engine)
Note 2:	VW has answered for 2002 model year.	
	Following model years are blank and must be filled in by BMW	

Figure 10.1: Example of an OBD compatibility chart, detailing supported protocols by vehicle manufacturer and year.

11. Warranty and Support

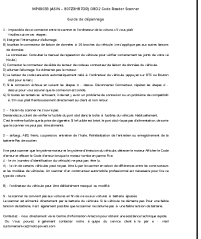
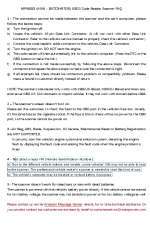
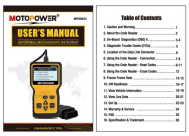
11.1. Warranty

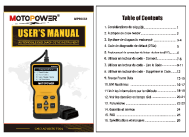
MOTOPOWER provides a limited warranty for the MP69040 scanner against defects in materials and workmanship under normal use. The EU spare parts availability is 2 years. Please retain your purchase receipt for warranty claims.

11.2. Technical Support

For technical assistance, troubleshooting, or questions regarding your MOTOPOWER MP69040 OBD2 Scanner, please visit the official MOTOPOWER website or contact their customer support. Contact information can typically be found on the product packaging or the official website.

Related Documents - MP69040

	MOTOPOWER MP69040 OBDII Code Reader Scanner User's Manual Comprehensive user manual for the MOTOPOWER MP69040 OBDII Code Reader Scanner, covering safety precautions, device operation, diagnostic procedures, data viewing, updates, warranty, and specifications.
	MOTOPOWER MP69041 OBD2 Scanner User Manual Comprehensive user manual for the MOTOPOWER MP69041 5-in-1 Car OBD2 Scanner, detailing its features for reading check engine fault codes and diagnosing vehicle issues.
	Troubleshooting Guide for MOTOPOWER MP69033 OBD2 Code Reader Scanner A comprehensive troubleshooting guide for the MOTOPOWER MP69033 OBD2 Code Reader Scanner, covering common issues such as connection problems, scanner not powering on, VIN reading errors, and compatibility with vehicle battery conditions. Provides step-by-step solutions and contact information for support.
	MOTOPOWER MP69033 OBD2 Code Reader Scanner FAQ and Troubleshooting Frequently asked questions and troubleshooting guide for the MOTOPOWER MP69033 OBD2 Code Reader Scanner. Covers connection issues, power problems, VIN reading, system compatibility, and support contact information.
	MOTOPOWER MP69033 OBD2 Scanner User Manual - Car Diagnostic Tool Guide Comprehensive user manual for the MOTOPOWER MP69033 OBD2 scanner. Learn how to connect, read codes, view live data, and understand vehicle diagnostics for your car.

	MOTOPOWER MP69033 OBD2 Scanner User Manual - Diagnostic Tool Guide Comprehensive user manual for the MOTOPOWER MP69033 OBD2 scanner. Learn how to connect, read codes, erase codes, view freeze frame data, check I/M readiness, and understand vehicle information for automotive diagnostics.

Documents - MOTOPOWER – MP69040

MOTOPOWER MP69040 OBDII Code Reader Scanner User's Manual

Comprehensive user manual for the MOTOPOWER MP69040 OBDII Code Reader Scanner, covering safety precautions, device operation, diagnostic procedures, data viewing, updates, warranty, and specifications.

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