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› TOPDON CarPal-US OBD2 Code Reader User Manual

TOPDON TOPDON-CarPal-VC

TOPDON CarPal-US OBD2 Code Reader

USER INSTRUCTION MANUAL

1. Introduction

The TOPDON CarPal-US is a state-of-the-art wireless diagnostic tool designed for comprehensive vehicle maintenance. This innovative device connects seamlessly to your smartphone (iOS & Android) via Bluetooth, providing an intuitive platform to monitor your vehicle's health. It is an ideal solution for multi-car households, offering a single, versatile tool to quickly identify and address automotive issues.

With the CarPal-US, users can perform thorough check-ups of all vehicle systems, read and clear diagnostic trouble codes (DTCs), and access essential maintenance services, ensuring your vehicle remains in optimal condition.

2. Product Overview

The TOPDON CarPal-US is a compact and robust device designed for ease of use. It plugs directly into your vehicle's OBD2 port, typically located under the dashboard.



Figure 2.1: TOPDON CarPal-US device and retail packaging, highlighting key features like Full System Diagnostics and 6 Maintenance Functions.

Key Features:

- **All System Diagnosis:** The CarPal-US provides a comprehensive scan of all vehicle systems, including engine, transmission, airbags, ABS, TPMS, and more, to ensure all critical components are functioning correctly.

All System Scan Tool

Scan, Read, and Clear Codes Across All Vehicle Systems

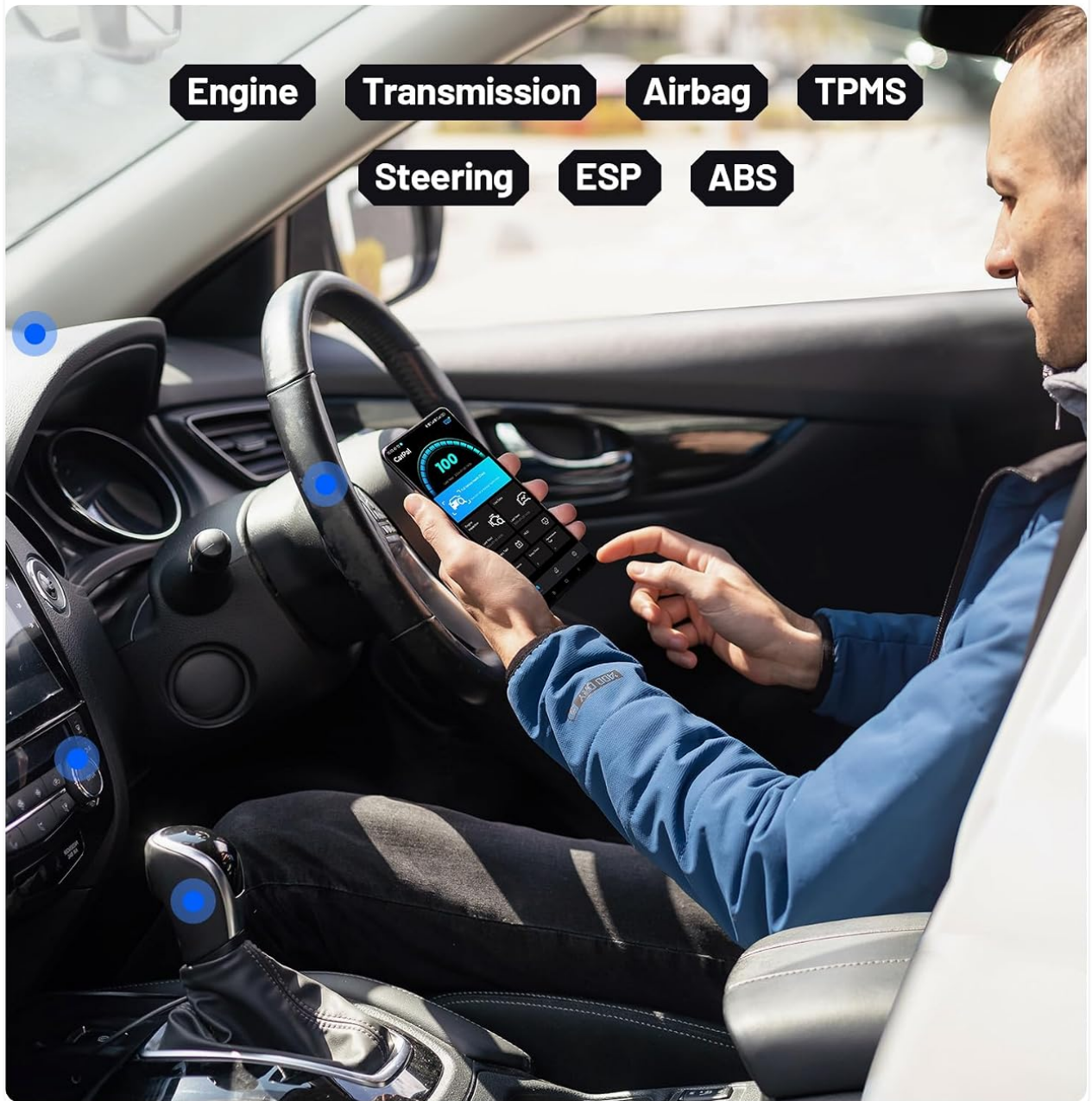
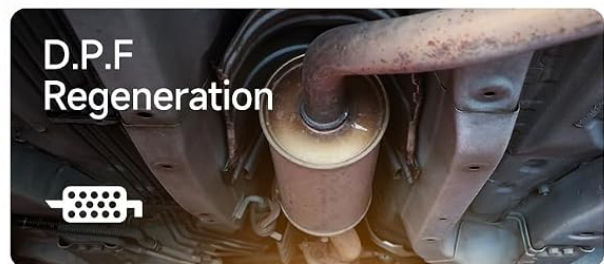
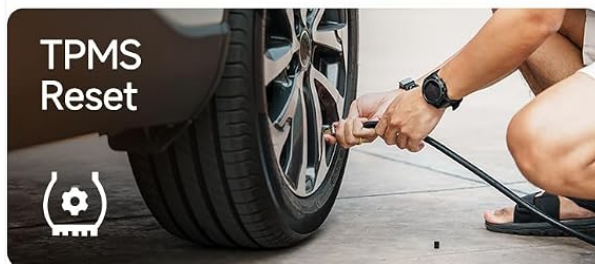


Figure 2.2: The CarPal-US performing an all-system scan, covering Engine, Transmission, Airbag, TPMS, Steering, ESP, and ABS systems.

- **6 Maintenance Services:** Access commonly used reset functions such as Oil Reset, TPMS Reset, Electronic Parking Brake (EPB) Reset, Battery Management System (BMS) Reset, Throttle Adaptation, and Diesel Particulate Filter (DPF) Regeneration.

6 Most Essential Reset Services

Boost Performance for Safer and Smooth Driving



*Check compatibility on TOPDON's website or contact support before use.

Figure 2.3: Visual representation of the six essential reset services: Oil Reset, Throttle Adaptation, EPB Reset, BMS Reset, TPMS Reset, and D.P.F. Regeneration.

- **Smog Check:** Conduct emissions tests to ensure your vehicle meets environmental standards and is ready for inspection.
- **Repair Guide:** Gain immediate access to an extensive library of professional repair information, helping you understand and address vehicle faults.
- **Vehicle Health Check:** Perform a quick, thorough check of your vehicle's overall health with a single click, providing a clear overview of its status.

Family Car Care Assistant

Three Brands in Harmony: One Tool for the Whole Family



All System
Diagnosis



6 Reset
Services



Repair
Guide



Vehicle
Health Check



Smog
Check



Engine
Inspection



Figure 2.4: The CarPal-US positioned as a family car care assistant, capable of connecting with up to three different vehicle brands.

3. Setup Guide

Follow these steps to set up your TOPDON CarPal-US OBD2 Code Reader:

1. **Download the CarPal App:** Search for "CarPal" on the Apple App Store (for iOS devices) or Google Play Store (for Android devices) and install the application on your smartphone.

Never Be Lost In Engine Troubles



Download on the
App Store



GET IT ON
Google Play



Figure 3.1: The CarPal app is available for download on both the Apple App Store and Google Play Store.

2. **Connect to Vehicle:** Locate your vehicle's OBD2 port. This port is typically found under the dashboard on the driver's side. Plug the CarPal-US device firmly into the OBD2 port.
3. **Power On Vehicle:** Turn your vehicle's ignition to the "ON" position (engine off) or start the engine, as required by the app for full system access.
4. **Pair via Bluetooth:** Open the CarPal app on your smartphone. The app will guide you through the Bluetooth pairing process. Ensure Bluetooth is enabled on your phone.
5. **Select Vehicle Brand & Download Software:** Upon successful pairing, the app may prompt you to select your vehicle's brand and download specific diagnostic software. The CarPal-US supports up to three different vehicle brands simultaneously.

4. Operation

The CarPal-US app provides a user-friendly interface for various diagnostic and maintenance functions:

- **Full Vehicle Health Check:** From the main screen, tap "Full Vehicle Health Check" to initiate a comprehensive scan of all accessible electronic control units (ECUs) in your vehicle. This provides a quick overview of any detected issues.



Figure 4.1: The Vehicle Health Check feature provides a comprehensive diagnostic score and identifies issues across various vehicle systems.

- **Reading and Clearing DTCs:**

- After a scan, the app will display any Diagnostic Trouble Codes (DTCs) found. Tap on a specific DTC for detailed information, including probable causes, probable signs, and repair steps.
- To clear DTCs, ensure the ignition is ON and the engine is OFF (unless specified otherwise by the app). Select the "Clear DTC" option within the app. Clearing codes will turn off the Check Engine Light (CEL) if the underlying issue has been resolved.
- **Maintenance Services:** Access the "Maintenance" section to perform specific reset functions:
 - **Oil Reset:** Resets the engine oil life system after an oil change.
 - **TPMS Reset:** Resets the Tire Pressure Monitoring System after tire rotation or replacement.
 - **EPB Reset:** Resets the Electronic Parking Brake system after brake pad replacement.
 - **BMS Reset:** Resets the Battery Management System after battery replacement.
 - **Throttle Adaptation:** Relearns the throttle body position after cleaning or replacement.
 - **DPF Regeneration:** Initiates the Diesel Particulate Filter regeneration process for diesel vehicles.
- **Smog Check:** Navigate to the "Smog Check" function to check your vehicle's emission readiness status. This helps identify if your vehicle will pass an emissions test.

Save Big With Smog Check

Pre-check Your Vehicle Emissions to Pass Annual Inspections
and Avoid Extra Costs



Figure 4.2: The Smog Check function displays readiness monitors, indicating if the vehicle is prepared for an emissions test.

- **Live Data Stream:** View real-time data parameters from various sensors in your vehicle. This data can be displayed in numerical or graphical format for in-depth analysis.
- **Performance Test:** Utilize the performance test feature to measure metrics such as 0-60 mph acceleration, providing insights into your vehicle's capabilities.
- **Repair Information:** The app provides access to a "DTC Repair Guide" and "Technical Service Bulletins" to assist with diagnosing and repairing common issues.

Roadmap To Effortless Car Repairs

Empower You with All-around Repair Information

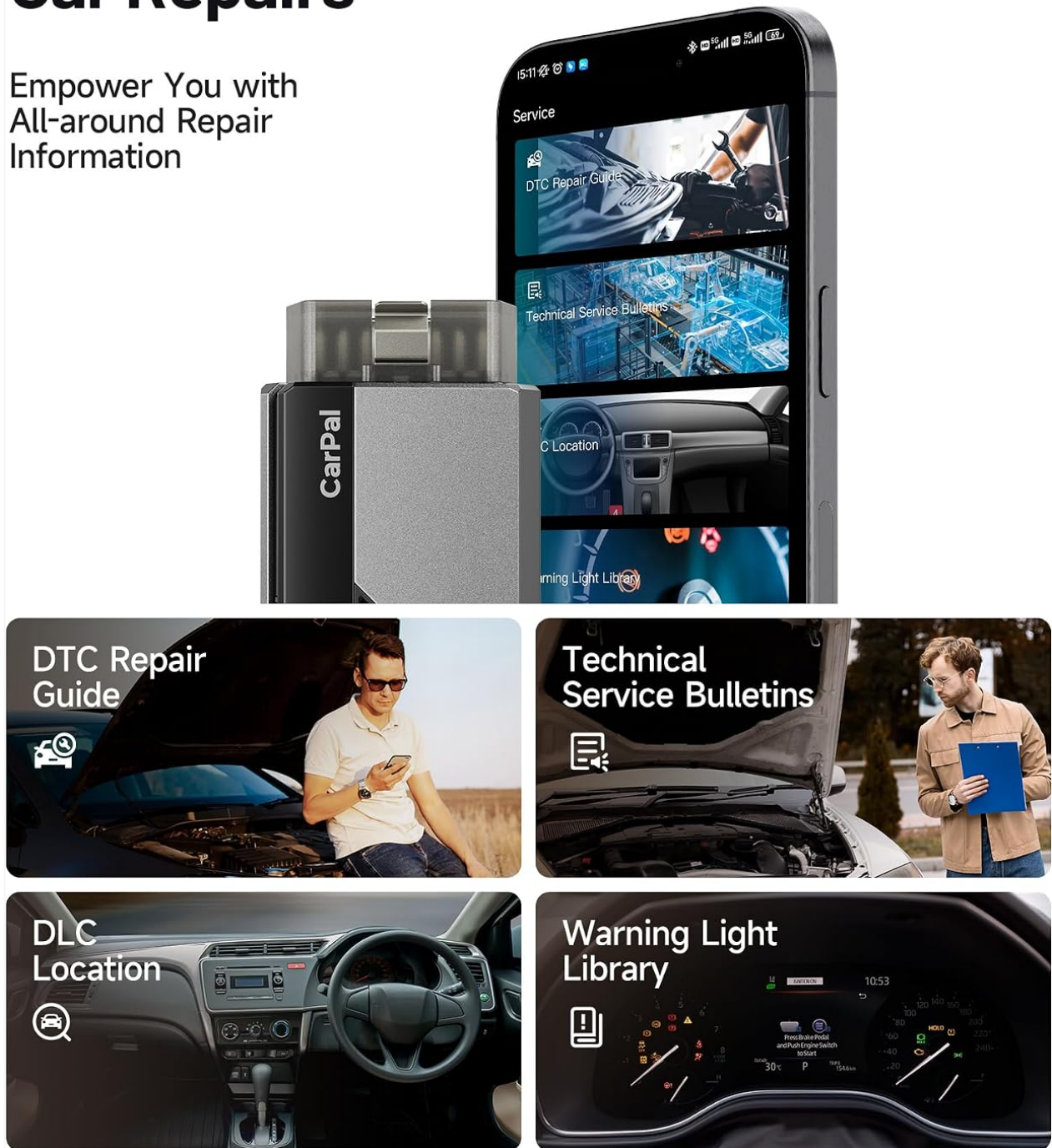


Figure 4.3: The CarPal app offers various repair resources, including a DTC Repair Guide, Technical Service Bulletins, DLC Location, and a Warning Light Library.

5. Maintenance

To ensure optimal performance and access to the latest features, regular maintenance of your CarPal-US device and app is recommended:

- **Software Updates:** Keep the CarPal app updated to the latest version available on your device's app store. This ensures compatibility with new vehicle models and access to improved diagnostic functions.
- **Device Care:** Store the CarPal-US device in a cool, dry place when not in use. Avoid exposing it to extreme

temperatures or direct sunlight. Clean the device with a soft, dry cloth.

- **Subscription Renewal:** The CarPal-US includes a free subscription for the first year. After this period, an annual renewal fee of \$29.99/yr applies to continue accessing all features.

6. Troubleshooting

If you encounter issues with your TOPDON CarPal-US, consider the following troubleshooting steps:

- **Device Not Connecting:**
 - Ensure the device is securely plugged into the vehicle's OBD2 port.
 - Verify that the vehicle's ignition is in the "ON" position or the engine is running.
 - Check that Bluetooth is enabled on your smartphone and the CarPal app has permission to use Bluetooth.
 - Restart the CarPal app and attempt to reconnect.
- **App Not Responding/Crashing:**
 - Close the app completely and reopen it.
 - Ensure your smartphone's operating system is up to date.
 - Clear the app's cache (Android) or reinstall the app (iOS/Android) if the issue persists.
- **Inaccurate Readings/Codes:**
 - Ensure the correct vehicle brand software has been downloaded and installed within the app.
 - Verify that your vehicle is compatible with the CarPal-US. Refer to the TOPDON website or contact customer service for compatibility information.
- **Software Download Issues:**
 - Ensure you have a stable internet connection (Wi-Fi recommended for large downloads).
 - Check for sufficient storage space on your smartphone.

For specific fault code interpretations or persistent issues, utilize the in-app "DTC Repair Guide" or consult a qualified automotive technician.

7. Specifications

Attribute	Detail
Brand	TOPDON
Model	TOPDON CarPal-VC
Power Source	Vehicle OBD2 Port
Product Dimensions	2"L x 1"W x 3.3"H
Item Weight	0.3 ounces
Operating System Compatibility	iOS and Android

Automotive Fit Type	Vehicle Specific Fit
UPC	850050886525

8. Warranty & Support

The TOPDON CarPal-US comes with a 1-year free update period for its features. After the initial year, an annual subscription fee of \$29.99/yr applies to continue accessing all functionalities.

TOPDON offers hassle-free returns for any issues that may arise with the product. For detailed compatibility information or further assistance, please visit the official TOPDON website or contact their customer service team.

Visit the TOPDON
Store