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Dixell P15

Dixell P15 OBD2 HUD Digital Speedometer User Manual

Model: P15

1. INTRODUCTION

The Dixell P15 OBD2 HUD (Head-Up Display) Digital Speedometer is an advanced vehicle information display system designed to project essential driving data directly into the driver's line of sight. This device connects to your vehicle's On-Board Diagnostics II (OBD2) port to provide real-time information such as vehicle speed, engine RPM, water temperature, voltage, and various alarm functions, enhancing driving safety and awareness.

This manual provides detailed instructions for the proper installation, operation, and maintenance of your P15 HUD. Please read it thoroughly before use.

OBD smart digital guage

Multi-function modification digital meter

Model: P15



Image 1.1: The Dixell P15 OBD2 HUD Digital Speedometer unit. This image shows the front view of the P15 device, highlighting its compact design and digital display area.

2. SAFETY INFORMATION

- Ensure the device is installed in a position that does not obstruct your view of the road or interfere with vehicle controls.
- Do not attempt to adjust settings or operate the device while driving. Perform all adjustments when the vehicle is safely parked.
- Keep the device away from direct sunlight for prolonged periods to prevent overheating.
- Use only the provided OBD2 cable for connection. Using unauthorized cables may damage the device or

vehicle.

- If the device malfunctions or emits smoke/unusual odors, immediately disconnect it from the OBD2 port and contact customer support.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x HUD Main Unit (Dixell P15)
- 1 x OBD2 Cable
- 1 x HUD Holder
- 1 x User Manual

4. SETUP AND INSTALLATION

The Dixell P15 HUD is designed for simple plug-and-play installation.

1. **Locate the OBD2 Port:** The OBD2 port is typically located under the dashboard on the driver's side, usually near the steering column. Refer to your vehicle's manual if you cannot find it.
2. **Connect the OBD2 Cable:** Plug one end of the provided OBD2 cable into the vehicle's OBD2 port and the other end into the P15 HUD unit.
3. **Mount the HUD:** Attach the HUD unit to the provided holder. Place the holder on your dashboard in a position that offers a clear view of the display without obstructing your driving vision. Ensure it is stable and secure.
4. **Route the Cable:** Carefully route the OBD2 cable to avoid interference with pedals or other vehicle controls. You may tuck it along the dashboard edges for a cleaner installation.
5. **Start the Vehicle:** Once connected, start your vehicle. The HUD unit should power on automatically and begin displaying data.

OBD smart digital meter

Turbine pressure

Multiple fuel consumption

read more datas



plug and Play, easy install

Image 4.1: Example of the Dixell P15 HUD installed on a vehicle dashboard. This image illustrates the typical placement of the device above the steering wheel, providing a clear view for the driver.

5. OPERATING INSTRUCTIONS

5.1. Automatic Power On/Off

The P15 HUD automatically powers on when the vehicle starts and powers off when the vehicle is shut down, effectively protecting the car battery.

5.2. Displayed Information

The P15 HUD can display a wide range of vehicle data, including:

- Vehicle Speed (km/h or MPH)
- Engine RPM
- Water Temperature (°C or °F)
- Voltage
- Instantaneous Fuel Consumption
- Average Fuel Consumption

- Single Driving Distance
- Total Driving Distance
- Driving Time
- Turbo Pressure
- Air/Fuel Ratio
- Oil Temperature

New version of upgraded smart digital meter More accurate data, More functions



Image 5.1: Icons representing various functions and alarms of the Dixell P15 HUD. This graphic shows symbols for speed, RPM, water temperature, voltage, fuel consumption, clock, turbo pressure, refresh rate, driving distance, driving time, full vehicle data flow, engine error, unit switching, automatic light sensing, languages, display colors, speedup test, and brake test.

5.3. Alarm Functions

The P15 HUD includes several alarm features to alert the driver to potential issues:

- Low Voltage Alarm
- High Water Temperature Alarm
- Over Speed Alarm
- Engine Fault Code Alarm
- Shift Reminder

- Fatigue Driving Reminder

5.4. Unit Switching

The display units for speed (kilometers per hour / miles per hour) and temperature (Celsius / Fahrenheit) can be freely switched through the device settings.

5.5. Brake Performance Test

The device supports a brake performance test function, allowing users to assess their vehicle's braking capabilities.

5.6. Fault Code Clearing

The P15 HUD can read and clear engine fault codes, helping to diagnose and resolve minor vehicle issues without needing specialized equipment.

5.7. Display Customization

The P15 HUD features an 8-color design, allowing users to switch between different display colors for various data points to suit personal preference or improve readability.

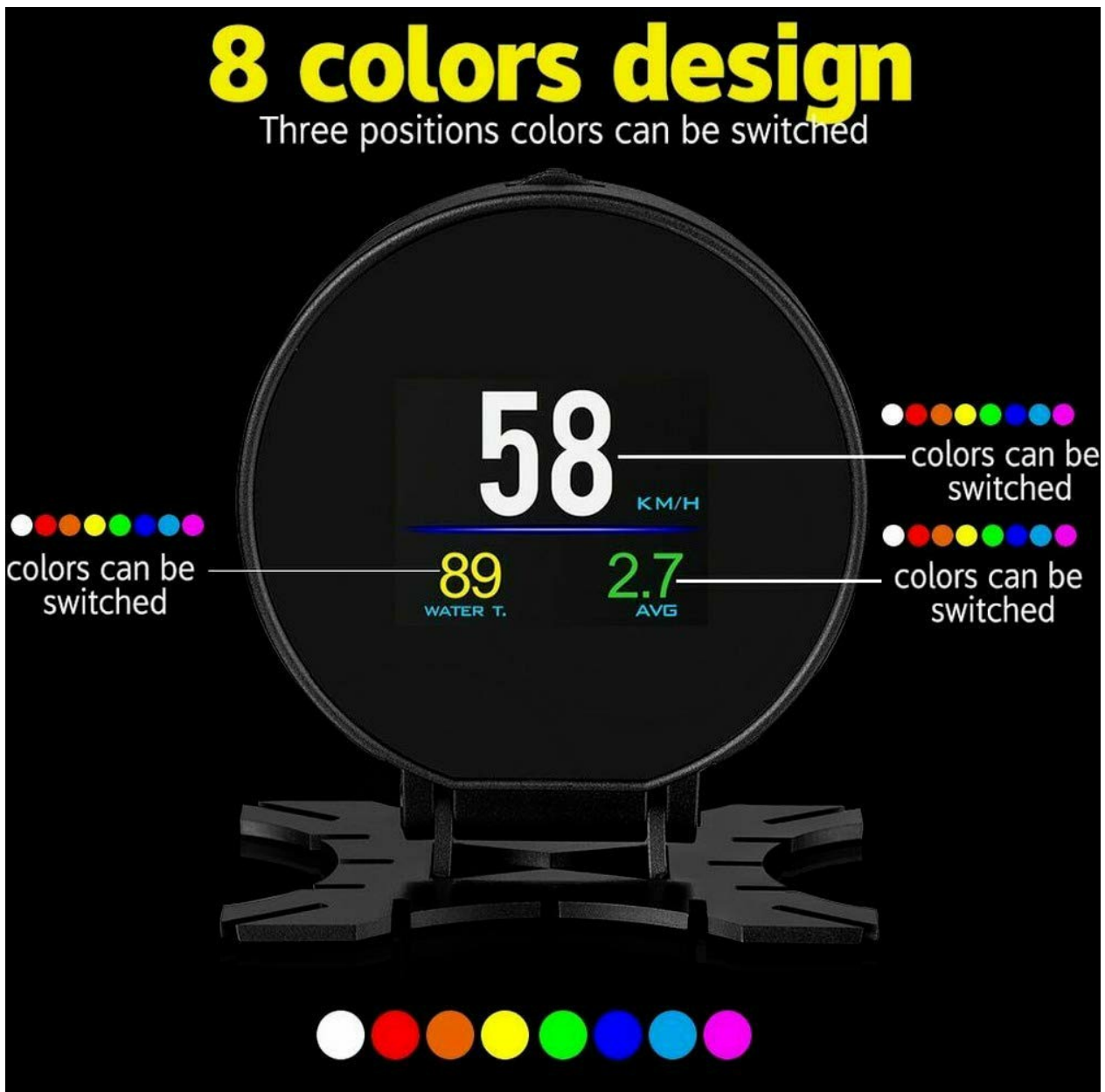



Image 5.2: The Dixell P15 HUD demonstrating its 8-color display options. This image shows the device displaying speed, water temperature, and average fuel consumption, with indicators pointing to various color choices for different data fields.

5.8. Comprehensive Data Stream

The device can display up to 48 data points directly from the car's ECU, providing a comprehensive overview of vehicle performance and status.



Display 48 datas from car ECU

DTCS STATUS	SPEED	OXYGENSEN V-23	BAROMETRIC PRE
FREEZE DTCS	IGNITION	OXYGENSEN V-24	AIRTEMPERATURE
LOOP STATUS	INTAKE AIRTEMP	OBD TYPE	BAT TERYVOLTAGE
ENGINE LOAD	MAF RATE	OXYGENSEN POS2	ODO DISTANCE
COOLANT TEMP	THROTTLE POS	AUXLNPUTSTATUS	TRIP DISTANCE
FUELTRIM S13	OXYGENSEN POS1	ENGINE RUNTIME	TRIP DRIVETIME
FUELTRIM L13	OXYGENSEN V-11	MIL DISTANCE	SPEED(AVERAGE)
FUELTRIM S24	OXYGENSEN V-12	FRP REF MANIFO	LPH(TYPE1)
FUELTRIM L24	OXYGENSEN V-13	FUELRAIN PRESS	LPH(TYPE2)
FUELRAIL PRESS	OXYGENSEN V-14	FUEL LEVEL	LHK(TRIP)
INTAKEPRESSURE	OXYGENSEN V-21	WARM-UPS COUNT	LHK(HISTORY)
TACHO	OXYGENSEN V-22	DISTANCE(DTCS)	LHK(AVERAGE)

Image 5.3: A table listing 48 data points that can be displayed by the Dixell P15 HUD from the vehicle's ECU. Examples include DTCS Status, Speed, Engine Load, Coolant Temp, Fueltrim, Oxygen sensors, Ignition, MAF Rate, Throttle Pos, Engine Runtime, Trip Drivetime, Fuel Level, and various distances.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the display and exterior of the HUD unit. Do not use abrasive cleaners or solvents, as they may damage the surface.
- **Storage:** If the device will not be used for an extended period, disconnect it from the OBD2 port and store it in a cool, dry place.
- **Cable Care:** Regularly inspect the OBD2 cable for any signs of wear or damage. Replace if necessary.

7. TROUBLESHOOTING

If you encounter issues with your Dixell P15 HUD, refer to the following common problems and solutions:

- **No Power/Display:**

- Ensure the OBD2 cable is securely connected to both the HUD unit and the vehicle's OBD2 port.
- Verify that the vehicle's ignition is on or the engine is running.
- Check the vehicle's fuse box for any blown fuses related to the OBD2 port (consult your vehicle's manual).

- **Incorrect Readings:**

- Ensure the correct units (km/h vs. MPH, °C vs. °F) are selected in the device settings.
- Some vehicles may have slight variations in OBD2 data. If readings are consistently off, consult the device's advanced settings for calibration options (if available).

- **Alarms Triggering Incorrectly:**

- Review the alarm threshold settings in the device menu. Adjust them to appropriate levels for your driving conditions and vehicle.
- If an engine fault code alarm persists after clearing, it indicates an underlying vehicle issue that requires professional inspection.

- **Device Freezes or Responds Slowly:**

- Disconnect the device from the OBD2 port, wait 30 seconds, and reconnect it to perform a soft reset.
- Ensure the device's firmware is up to date (if applicable, check the manufacturer's website for updates).

Are you often troubled by these?

These troubles are always worrying



Image 7.1: A visual representation of common vehicle issues that the Dixell P15 HUD can help diagnose or monitor. This image shows scenarios like low oil temperature, engine malfunction, fuel consumption, and car error alarms, demonstrating how the HUD provides relevant data.

8. SPECIFICATIONS

- **Brand:** Dixell
- **Model:** P15
- **ASIN:** B091GZ8GVT
- **UPC:** 791974107306
- **Material:** Reset (Note: This likely refers to a reset function or material property not fully specified)
- **Connectivity:** OBD2
- **Display Size:** 2.8 Inch (diagonal)

9. WARRANTY AND SUPPORT

Dixell is committed to providing quality products and customer satisfaction. While specific warranty details are not provided in this manual, we offer after-sales service for any questions or issues you may encounter with your P15 HUD. Please refer to your purchase documentation or contact the seller for support.

