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BY-J HUD-G15

BY-J G15 GPS Speedometer User Manual

Model: **HUD-G15**
Brand: **BY-J**

1. Product Overview

The BY-J G15 GPS Speedometer is a versatile Heads Up Display (HUD) unit designed to provide essential driving information directly in your line of sight. Featuring a GPS + BeiDou dual-mode chip dual system, it offers fast and accurate speed display without delay, making it suitable for all vehicle types. Its compact design ensures it does not obstruct your view while driving.



Figure 1: The BY-J G15 GPS Speedometer, highlighting its compatibility and function as a new GPS speedometer.

Key functions include GPS speed, time, driving direction, automatic sensitivity adjustment, over-speed alarm, and fatigue driving reminders. It supports both km/h and MPH units, with automatic switching capabilities.

2. Package Contents

Please verify that all the following items are included in your package:

- 1 x G15-HUD Main Unit
- 1 x Micro USB Cable
- 1 x Non-slip Mat
- 1 x User Manual



Figure 2: Included accessories with the G15-HUD unit.

3. Features

- **Multi-functional Display:** Displays GPS speed, current time, driving direction (compass), driving distance, and driving time.
- **Automatic Light-sensitive Adjustment:** A built-in light-sensing system automatically adjusts screen brightness based on ambient light, ensuring optimal visibility day or night.
- **Enhanced Driving Safety:** Its small size allows for placement on the dashboard without obstructing the driver's view, enabling easy monitoring of speed and direction without looking down.
- **Universal Compatibility:** Equipped with GPS and BeiDou dual-mode chips, ensuring fast refresh rates and no delay, compatible with all vehicle models.
- **Alarm Functions:** Includes a multi-stage over-speed alarm and a fatigue driving reminder (after 8 hours of continuous

driving).



Figure 3: Illustration of the overspeed alarm and fatigue driving reminder functions.



Figure 4: Detailed breakdown of the G15 display functions and indicators.

4. Setup and Installation

The G15 Speedometer offers two convenient installation methods for non-destructive setup:

1. **Dashboard Placement:** The device can be placed directly on the dashboard, typically near the instrument cluster. Use the provided non-slip mat to secure it in place.
2. **Windshield Mounting:** Utilize a 360-degree rotating suction cup mount (not included, but compatible with standard mounts) to attach the device to your windshield.

After positioning the unit, connect the supplied USB cable to the device and then to a vehicle's USB port or a cigarette lighter car charger port. The device is plug-and-play and will power on automatically.

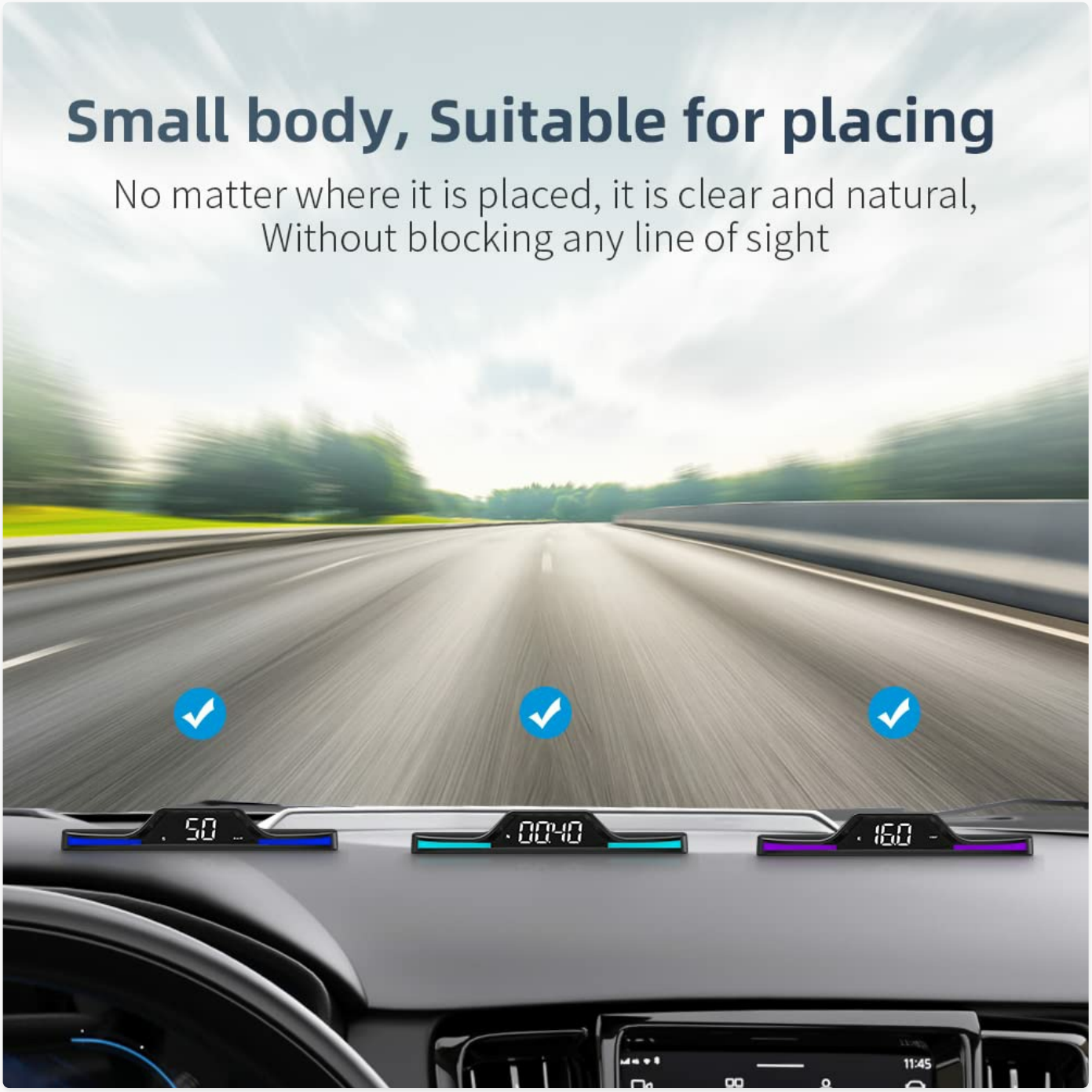


Figure 5: The G15's small form factor allows for unobtrusive placement on the dashboard.

5. Operating Instructions

The G15 Speedometer is designed for intuitive operation. Upon power-up, it will automatically search for GPS signals. It may take a minute or two to acquire a stable GPS lock, especially when the vehicle is stationary.

5.1 Display Modes and Switching

The device supports multiple display modes, which can typically be cycled through using the dial button on the unit. Common display modes include:

- **Speed Only:** Displays current speed (Km/H or MPH).
- **Speed + Compass:** Shows speed and driving direction (N, E, S, W).
- **Time Only:** Displays current time.

- **Speed + Time:** Combines speed and time display.
- **Speed/Time + Compass:** Displays speed, time, and compass.
- **Number of Satellites + Compass:** Shows the number of acquired GPS satellites and compass direction.
- **Driving Time + Compass:** Displays accumulated driving time and compass.
- **Driving Distance + Compass:** Displays accumulated driving distance and compass.



Figure 6: Examples of multiple display modes available on the G15 unit.

5.2 Unit Switching (MPH/Km/H)

The G15 supports both Miles Per Hour (MPH) and Kilometers Per Hour (Km/H). Refer to the detailed instructions in the included paper manual for specific steps on how to switch between these units, typically done via the dial button settings.

5.3 Alarm Settings

The over-speed alarm can be configured to alert you when a preset speed limit is exceeded. The fatigue driving reminder will activate after 8 hours of continuous driving. Consult the paper manual for instructions on setting these alarm thresholds.

6. Technical Specifications

Feature	Specification
Model Number	HUD-G15
Dimensions (L x W x H)	10.2 x 4.6 x 3 cm (4.02 x 1.81 x 1.18 inches)
Weight	141.75 Grams (approx. 0.31 lbs)
Positioning System	GPS + BeiDou Dual-Mode Chip
Display Units	Km/H, MPH
Power Input	USB (5V)
UPC	767159666678



Figure 7: Physical dimensions and interface details of the G15 unit.

7. Troubleshooting

- **No Display/Power:** Ensure the USB cable is securely connected to both the device and a working USB port or cigarette lighter adapter in your vehicle. Check the vehicle's power source.
- **No GPS Signal:** It may take a minute or two for the device to acquire a GPS signal, especially in areas with poor satellite visibility (e.g., underground parking, dense urban areas). Move the vehicle to an open area. Ensure the device has a clear view of the sky.
- **Inaccurate Speed Reading:** While generally accurate, minor discrepancies (e.g., +/- 2 mph) compared to your vehicle's speedometer can occur due to tire size changes or inherent differences in measurement methods. Ensure a stable GPS lock.
- **Unit Stuck on Kilometers (Km/H):** If the device consistently displays Km/H and you prefer MPH, refer to the

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