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> BY-J G17 GPS Speedometer User Manual

## BY-J HUD-G17

# BY-J G17 GPS Speedometer

## USER MANUAL

### Introduction

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The BY-J G17 GPS Speedometer is a versatile Heads-Up Display (HUD) designed to provide essential driving information directly in your line of sight. Utilizing GPS and BeiDou dual-mode chips, it offers fast and accurate data without delay, making it suitable for all vehicle types. This manual will guide you through the setup, operation, and maintenance of your G17 GPS Speedometer to ensure optimal performance and a safer driving experience.



Figure 1: The BY-J G17 GPS Speedometer, showcasing its triple-display design.

## Product Features

The G17 GPS Speedometer is equipped with a range of features designed to enhance your driving awareness:

- **Multi-functional Display:** Shows GPS speed, time, driving direction, driving distance, and more.
- **Automatic Light-sensitive Adjustment:** Built-in sensor automatically adjusts screen brightness for comfortable viewing in varying light conditions.
- **Enhanced Driving Safety:** Compact design does not obstruct view, allowing drivers to monitor speed and direction without looking down.
- **Universal Compatibility:** Features GPS + BeiDou dual-mode chips, ensuring fast refresh rates and no delay, compatible with all vehicle types.
- **Multiple Installation Methods:** Can be placed on the dashboard or mounted on the windshield using the included 360-degree rotating suction cup.
- **Alarm Functions:** Includes multi-stage overspeed alarm and fatigue driving reminder.



Figure 2: Breakdown of the G17's display elements, including GPS speed, clock, driving time, driving distance, altitude, acceleration time, compass, number of satellites, speed unit, audible alarm switch, overspeed alarm, and fatigue driving alarm.

# High-definition car instrumentation GPS + Beidou chip

Gradient mood light / multi-function display /  
large screen large font



Figure 3: The G17's high-definition display, highlighting its GPS + BeiDou chip for accurate data.

## Package Contents

Upon opening the package, please verify that all the following items are included:

- BY-J G17 HUD Unit
- Micro USB Connection Cable
- Non-slip Mat
- User Manual (this document)

# Product accessories



【G17-HUD】



【Micro USB】



【Non-slip mat】



【Instructions】

## Non-destructive installation, plug and play



1  
Insert the USB cable into the cigarette lighter port



2  
Insert the wires into the A-pillar seal



3  
Connect one end of the USB connector to the HUD and place the HUD in a suitable location

Figure 4: Contents of the BY-J G17 package.

## Setup and Installation

The G17 GPS Speedometer offers flexible installation options for your convenience. It is designed for non-destructive installation, making it plug-and-play.

### Installation Methods:

#### 1. Dashboard Placement:

Place the G17 unit directly on your dashboard using the provided non-slip mat. Ensure it is positioned where it does not obstruct your view of the road or other vehicle instruments.

#### 2. Windshield Mounting:

Attach the 360-degree rotating suction cup bracket to the windshield. Adjust the bracket to achieve your desired visual angle and height. This method allows for greater flexibility in positioning.

# 360° split bracket

The bracket can be rotated in all directions to adjust the visual angle and height, and the installation methods are more varied



Figure 5: Illustration of the 360-degree split bracket and the two primary installation methods.

## Connection Steps:

The G17 connects via a standard USB (5V) power source, making it compatible with most vehicles.

1. **Connect Power:** Insert the USB cable into your vehicle's USB port or a cigarette lighter car charger port.
2. **Route Cable:** Carefully route the wires into the A-pillar seal or other discreet locations to keep them tidy and out of the way.
3. **Connect to HUD:** Connect the other end of the USB cable to the G17 HUD unit.
4. **Position Device:** Place the HUD in your desired location (dashboard or windshield) and ensure it is stable.

# 2 alarm functions

Multi-stage overspeed alarm can be set,  
Fatigue driving reminder for 8 hours of continuous driving



*Figure 6: Step-by-step guide for connecting and installing the G17 unit.*

The G17 is suitable for all car models, including trucks, buses, new energy vehicles, and gas-electric hybrid vehicles, as it relies on GPS for speed data rather than vehicle's OBD-II port.

# Suitable for all car models!



Figure 7: The G17's broad compatibility with different vehicle types.

## Operating Instructions

Once powered on, the G17 will automatically acquire GPS signals and begin displaying information. The display is designed to be clear and visible without ghosting or requiring a film on the windshield.

# No ghosting, no film

High-definition display, does not block the line of sight,  
can be placed and suspended at any angle



Figure 8: The G17 display as seen from the driver's perspective, demonstrating clarity.

## Display Functions:

- **Speed (MPH/Km/h):** The central and most prominent display shows your current driving speed. The unit (MPH or Km/h) can be switched.
- **Driving Direction (Compass):** Indicates your current cardinal direction (N, S, E, W).
- **Driving Time:** Displays the duration of your current trip.
- **Driving Distance:** Shows the distance covered during your current trip.
- **Clock:** Displays the current time.
- **Altitude:** Shows your current elevation.
- **Number of Satellites:** Indicates the number of GPS/BeiDou satellites the unit is currently connected to, affecting accuracy.
- **Acceleration Time:** Measures acceleration over a certain distance (e.g., 0-100 km/h).

## Automatic Light-sensitive Adjustment:

The G17 features an integrated light-sensing system that automatically adjusts the screen's brightness. This ensures optimal visibility in bright daylight and prevents excessive brightness during nighttime driving, providing a comfortable visual experience without manual adjustment.

## Alarm Functions:

The device includes two important alarm functions to promote safer driving:

- **Overspeed Alarm:** You can set a multi-stage overspeed alarm. When your vehicle exceeds the preset speed limit, the device will provide an audible and/or visual alert.
- **Fatigue Driving Reminder:** After 8 hours of continuous driving, the device will issue a reminder to encourage the driver to take a break, helping to prevent fatigue-related accidents.



Figure 9: The G17's display showing active alarm indicators.

## Maintenance

To ensure the longevity and optimal performance of your BY-J G17 GPS Speedometer, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the display and exterior of the unit. Avoid using abrasive cleaners, solvents, or spray cleaners directly on the device, as they may damage the screen or casing.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.

- **Handling:** Handle the unit with care. Avoid dropping it or subjecting it to strong impacts, which could damage internal components.
- **Cable Care:** Ensure the USB connection cable is not kinked, pinched, or placed under heavy objects, as this can damage the cable and affect power supply.

## Troubleshooting

If you encounter any issues with your BY-J G17 GPS Speedometer, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
<b>No Display / Unit Not Powering On</b>	No power supply; loose USB connection; faulty USB port/charger.	Ensure the USB cable is securely connected to both the G17 and a working USB power source (5V). Try a different USB port or car charger.
<b>No Speed Reading / Inaccurate Speed</b>	Poor GPS signal; unit not acquiring satellites; vehicle stationary.	Ensure the vehicle is outdoors with a clear view of the sky. Drive for a short distance to allow the unit to acquire GPS signals. Avoid areas with tall buildings or tunnels that block satellite signals.
<b>Display Too Bright/Dim</b>	Automatic light sensor adjustment.	The unit features automatic light-sensitive adjustment. This is normal operation. If it seems stuck, try restarting the device by unplugging and re-plugging the USB cable.
<b>Alarms Not Functioning</b>	Alarm settings not configured; audible alarm switched off.	Refer to the device's specific settings (if accessible via buttons, though not detailed in provided data) to ensure overspeed limits are set and the audible alarm is enabled.

## Specifications

Below are the technical specifications for the BY-J G17 GPS Speedometer:

<b>Brand</b>	BY-J
<b>Model Number</b>	HUD-G17
<b>ASIN</b>	B0CPSJ3JRG
<b>UPC</b>	717967196027
<b>Product Dimensions (L x W x H)</b>	7.9 x 10.4 x 5.1 Centimetres (approx. 7.87 x 10.41 x 5.08 cm)
<b>Item Weight</b>	363 g (approx. 362.87 g)
<b>Material</b>	Acrylonitrile Butadiene Styrene (ABS)
<b>Manufacturer</b>	BY-J
<b>Date First Available</b>	Dec 16 2023

## Warranty and Support

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For information regarding warranty coverage, technical support, or service inquiries for your BY-J G17 GPS Speedometer, please refer to the contact information provided with your purchase documentation or visit the official BY-J website. Keep your purchase receipt as proof of purchase for warranty claims.