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> Astibym Intelligent Parking Sensor System User Manual (Model: Astibym3st4ydgr6p)

## Astibym Astibym3st4ydgr6p

# Astibym Intelligent Parking Sensor System User Manual

Model: Astibym3st4ydgr6p

## INTRODUCTION

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The Astibym Intelligent Parking Sensor System is designed to enhance vehicle safety and convenience during parking maneuvers. This system utilizes four ultrasonic probes to detect obstacles behind your vehicle, providing real-time audio alerts to help prevent collisions. Constructed from durable ABS material, it offers reliable performance and features an integrated protective circuit for safe operation.

This manual provides detailed instructions for the installation, operation, and maintenance of your parking sensor system. Please read it thoroughly before use to ensure proper functionality and safety.

## SAFETY INFORMATION

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- Always ensure the system is installed correctly according to the instructions to prevent malfunctions.
- The system is equipped with protective circuits to prevent overheating and overload. Do not attempt to bypass or modify these safety features.
- While this system provides assistance, it is not a substitute for careful driving and visual checks. Always look around your vehicle before and during parking.
- Keep the sensor probes clean and free from dirt, ice, or snow to ensure accurate detection.
- This system is designed to assist in detecting obstacles; however, certain conditions (e.g., very thin objects, objects too close to the ground, or certain materials) may affect detection accuracy.

## PACKAGE CONTENTS

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Verify that all components listed below are present in your package:

- 1 x Buzzer (65dB)
- 1 x Radar Host (Control Unit)
- 4 x Sensor Probes
- 1 x Drill Bit (for sensor installation)
- 1 x Power Cord

- 1 x English Manual (this document)
- 3 x Paster (Adhesive pads)
- 4 x Fixed Buckles (Mounting brackets)



Image: All components included in the Astibym Intelligent Parking Sensor System package, including the radar host, four sensor probes, buzzer, power cord, drill bit, adhesive pasters, and fixed buckles.



Image: A closer view of the main components: the central radar host, the audible buzzer unit, and the four ultrasonic sensor probes.

## SETUP AND INSTALLATION

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The Astibym Intelligent Parking Sensor System is designed for straightforward installation. Follow these steps carefully:

- 1. Choose Sensor Locations:** Determine the optimal positions for the four sensor probes on your vehicle's rear bumper. Ensure they are evenly spaced and at a consistent height, typically between 50-70 cm from the ground. Avoid placing them too close to exhaust pipes or other heat sources.
- 2. Drill Holes:** Use the provided drill bit to create holes at the marked sensor locations. Ensure the holes are clean and smooth.
- 3. Install Sensors:** Carefully insert the sensor probes into the drilled holes. Ensure they are flush with the bumper surface and facing directly backward.
- 4. Mount Radar Host:** Find a suitable, dry location inside the vehicle's trunk or under the dashboard to mount the radar host (control unit). Use the provided adhesive pasters or fixed buckles to secure it.
- 5. Connect Sensors to Host:** Route the sensor cables to the radar host and connect them to the corresponding ports. Ensure a secure connection for each sensor.
- 6. Connect Buzzer:** Connect the buzzer unit to the designated port on the radar host. Position the buzzer in a location where

its sound can be clearly heard by the driver.

7. **Connect Power:** Connect the power cord to the radar host. The other end of the power cord should be connected to your vehicle's reverse light circuit (12V DC). This ensures the system activates automatically when you engage reverse gear. Consult a professional if you are unsure about electrical connections.
8. **Secure Wiring:** Use cable ties or clips to secure all wiring, preventing it from dangling or interfering with other vehicle components.
9. **Test System:** After installation, test the system by engaging reverse gear and slowly approaching an obstacle. Verify that the buzzer provides audible alerts.



Image: An illustration demonstrating the placement of the radar host, buzzer, and four sensor probes in relation to a vehicle for installation.

## OPERATING INSTRUCTIONS

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The parking sensor system operates automatically when the vehicle is in reverse gear.

- **Activation:** The system activates automatically when the vehicle's reverse gear is engaged.

- **Obstacle Detection:** The four ultrasonic sensors continuously scan the area behind your vehicle for obstacles within their detection range (approximately 0.3 to 2.0 meters).
- **Audible Alerts:** As your vehicle approaches an obstacle, the 65dB buzzer will emit a series of beeps. The frequency of these beeps increases as the distance to the obstacle decreases.
  - *Slow Beep:* Obstacle detected at a greater distance.
  - *Faster Beep:* Obstacle is closer.
  - *Continuous Tone:* Obstacle is very close (typically within 0.3 meters), indicating an immediate stop is required.
- **Buzzer Control:** The buzzer unit may feature an "On/Off" or "Lo/Hi" switch to adjust the volume or disable the sound if desired. Refer to the specific buzzer unit for details.



Image: A visual representation of the sensor detection zones, showing how the audible alert frequency changes as the vehicle approaches an obstacle.

## MAINTENANCE

To ensure the longevity and optimal performance of your parking sensor system, follow these simple maintenance guidelines:

- **Keep Sensors Clean:** Regularly inspect and clean the sensor probes on your bumper. Dirt, mud, snow, or ice can obstruct the ultrasonic waves and lead to inaccurate readings or false alarms. Use a soft cloth and mild cleaning solution.
- **Check Connections:** Periodically check all wiring connections to the radar host, sensors, and power source to ensure they are secure and free from corrosion.
- **Avoid High-Pressure Washing:** When washing your vehicle, avoid directing high-pressure water jets directly at the sensor probes, as this could damage them.
- **Inspect for Damage:** If your vehicle is involved in a minor collision or impact, inspect the sensors and wiring for any visible damage. Damaged components should be replaced.

## TROUBLESHOOTING

If you encounter issues with your Astibym Intelligent Parking Sensor System, refer to the following troubleshooting tips:

Problem	Possible Cause	Solution
System does not activate in reverse.	No power supply to the radar host. Incorrect wiring to the reverse light circuit. Faulty radar host.	Check power cord connection and vehicle's fuse box. Verify wiring connections are correct and secure. Contact customer support if power and wiring are confirmed correct.
False alarms or continuous beeping.	Sensors are dirty or obstructed. Sensors are damaged or improperly installed. Interference from other electronic devices.	Clean sensors thoroughly. Inspect sensors for damage and ensure they are flush and correctly oriented. Ensure no other devices are causing interference.
No audible alert from buzzer.	Buzzer is disconnected or faulty. Buzzer volume is set to 'Off' or 'Low'.	Check buzzer connection to the radar host. Adjust the buzzer's volume switch if available. Contact customer support if buzzer is confirmed connected and volume is on.
Inconsistent detection range.	Sensors are dirty or misaligned. Environmental factors (heavy rain, snow).	Clean and realign sensors. Be aware that extreme weather can affect performance.

## SPECIFICATIONS

Feature	Specification
Brand	Astibym
Model Number	Astibym3st4ydgr6p
Power Source	Vehicle Power Socket (12V DC)
Input Power	12V DC
Working Temperature	-30°C to +80°C
Voice Alarm (Buzzer)	65dB
Ultrasonic Frequency	40KHz
Sensor Detection Range	Approx. 0.3 - 2.0 meters (1.0 - 6.6 feet)
Diameter of Sensor	Approx. 16.5mm (0.6 inches)
Material	ABS

## WARRANTY AND SUPPORT

This product is manufactured with high-quality materials and undergoes strict quality control. For any questions, technical

assistance, or warranty claims, please contact your retailer or the Astibym customer support team. Please have your product model number (Astibym3st4ydgr6p) and purchase details ready when contacting support.

For more information, you may visit the [Astibym Store on Amazon](#).

