

Cobra AMF394B

Cobra ParkMaster Kit AMF394B Front Parking Aid System User Manual

Model: AMF394B

1. INTRODUCTION AND SYSTEM OVERVIEW

The Cobra ParkMaster Kit AMF394B is a front parking aid system designed to assist drivers during parking maneuvers by detecting obstacles in front of the vehicle. This system includes a control unit and four ultrasonic sensors.

Key features of the Cobra ParkMaster system:

- **Precision Detection:** Provides accurate distance measurement to obstacles.
- **Compact Sensors:** Four 17 mm diameter sensors designed for flush mounting in the bumper.
- **Paintable:** Sensors can be painted to match the vehicle's color for seamless integration.
- **Automatic Calibration:** The system self-calibrates upon installation.
- **Adjustable Settings:** Volume and sensitivity can be manually adjusted.
- **Acoustic Warning:** Provides audible alerts to indicate obstacle proximity.
- **Self-Diagnosis Function:** Monitors system operation for potential faults.



Figure 1: Illustration of the detection zones for the front parking aid system. The zones indicate varying distances where obstacles are detected, typically ranging from 0-35 cm (red), 35-70 cm (yellow), and 70-100 cm (green).

2. SETUP AND INSTALLATION

Installation of the Cobra ParkMaster system requires careful attention to detail. It is recommended that installation be performed by a qualified technician.

2.1 Sensor Mounting

1. **Select Sensor Locations:** Identify appropriate positions on the front bumper for the four sensors. Ensure even spacing and optimal coverage.
2. **Drill Holes:** Using the provided drill bit (if applicable) or a suitable tool, create holes of 17 mm diameter in the bumper. The sensors are designed to be installed from the rear of the bumper for a flush finish.
3. **Install Sensors:** Insert the sensors into the drilled holes. Ensure they are securely seated and flush with the bumper surface.
4. **Painting (Optional):** If desired, the sensors can be painted to match the vehicle's body color. Ensure paint is applied thinly and evenly to avoid affecting sensor performance.
5. **Wiring:** Route the sensor cables to the control unit, ensuring they are protected from heat, moisture, and moving parts.

Important Note: The system does not support the use of adapter rings. Please refer to the specific mounting dimensions and guidelines provided with the product packaging for detailed instructions.



Figure 2: Example of Cobra ParkMaster sensors integrated into a vehicle's front bumper. The sensors are designed for a subtle, factory-fitted appearance.

2.2 Control Unit Connection

Connect the sensor cables, power supply, and any optional connections (e.g., speed signal, radio mute) to the control unit according to the wiring diagram provided in the product packaging. Secure the control unit in a dry, protected location within the vehicle.

2.3 Initial Calibration

After installation, the system will perform an automatic calibration. Ensure the area in front of the vehicle is clear during the first activation to allow for proper calibration. Manual adjustments for volume and sensitivity can be made after calibration.

3. OPERATING INSTRUCTIONS

3.1 System Activation

- **Automatic Activation:** The ParkMaster system activates automatically when the vehicle's ignition is turned on. It will signal readiness with an acoustic tone and/or an LED indicator.
- **Manual Activation:** The system can also be activated manually using the supplied button. This is useful for situations where you need front parking assistance without cycling the ignition.

3.2 Obstacle Detection and Warning

When an obstacle is detected within the sensor's range (approximately 100 cm), the system will provide acoustic warnings. The frequency of the beeps will increase as the vehicle approaches the obstacle, becoming a continuous tone at very close distances.

3.3 System Deactivation

- If the system activates with the ignition and no obstacle is detected within 10 seconds, it will automatically deactivate.
- If an obstacle is detected, the system remains active until no obstacle has been detected for 10 consecutive seconds.

3.4 Adjusting Settings

The volume of the acoustic warning and the sensitivity of the sensors can be adjusted. Refer to the detailed instructions in the product packaging for specific steps on how to access and modify these settings.

An optional radio mute function may be available, which temporarily mutes the car radio when the ParkMaster system is active and detecting an obstacle.

4. MAINTENANCE

The Cobra ParkMaster system is designed for minimal maintenance. To ensure optimal performance:

- **Keep Sensors Clean:** Regularly clean the sensor surfaces on the bumper to remove dirt, mud, ice, or snow. Obstructions can impair sensor performance. Use a soft cloth and mild cleaning solution.
- **Inspect Wiring:** Periodically check visible wiring for any signs of damage or loose connections.

Avoid using abrasive cleaners or high-pressure washers directly on the sensors, as this may cause damage.

5. TROUBLESHOOTING

If you experience issues with your Cobra ParkMaster system, consider the following troubleshooting steps:

- **System Not Activating:**
 - Ensure the vehicle ignition is on.
 - Check if the manual activation button is functioning correctly.
 - Verify all power connections to the control unit.
- **Inaccurate Readings or False Alarms:**
 - Clean the sensor surfaces thoroughly.
 - Check for any physical damage to the sensors or bumper area.
 - Ensure no external objects (e.g., license plate frames, tow hooks) are obstructing the sensor's field of view.
 - Adjust sensor sensitivity if necessary (refer to product packaging for instructions).
- **No Acoustic Warning:**
 - Check the volume setting of the acoustic speaker.
 - Ensure the speaker is properly connected to the control unit.

- **Self-Diagnosis Function:** The system includes a self-diagnosis function that can help identify internal faults. If a fault is detected, the system may provide a specific warning pattern. Consult the product's original manual for interpretation of these warnings.

If problems persist after attempting these steps, contact Cobra customer support or a qualified service technician.

6. SPECIFICATIONS

Brand:	Cobra
Model Number:	AMF394B
Article Number:	AMF394B (also 1203-00030-FR)
Number of Sensors:	4
Sensor Diameter:	17 mm
Detection Range:	Approximately 100 cm (1 meter)
Sensor Type:	Ultrasonic
Compliance:	ISO 17386 MALSO compliant
Paintable Sensors:	Yes
Adapter Rings:	Not supported
Batteries Required:	No
ASIN:	B013PFCGIU

7. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your Cobra ParkMaster Kit AMF394B or visit the official Cobra website. Keep your proof of purchase for warranty claims.

If you require technical assistance, have questions about installation, or need to report a fault, please contact Cobra customer support. Contact details can typically be found on the manufacturer's website or in the product packaging.

Manufacturer: Cobra

Available on Amazon.it since: October 22, 2015

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question