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› Steel-Mate PTSC1 Rear Parking Sensor Kit Instruction Manual

## Steel-Mate PTSC1

# Steel-Mate PTSC1 Rear Parking Sensor Kit Instruction Manual

Model: PTSC1

## 1. INTRODUCTION

The Steel-Mate PTSC1 Rear Parking Sensor Kit is a 4-sensor system designed to assist drivers during reversing maneuvers by providing audible alerts to indicate the distance to obstacles. This system enhances safety and reduces the risk of collisions when parking or backing up. It features a robust design suitable for various weather conditions and includes an anti-false alarm patent for reliable performance.

## 2. PACKAGE CONTENTS

Please verify that all the following components are included in your Steel-Mate PTSC1 kit:

- 4 x Parking Sensors (black, 18.8mm diameter hole size)
- 1 x Main Control Unit
- 1 x Buzzer (Audible Alarm)
- 1 x Power Cable
- 4 x Sensor Cables
- 1 x 18.8mm Hole Saw
- Mounting Accessories (adhesive pads, cable ties)
- Instruction Manual



Image 2.1: The audible buzzer component of the parking sensor kit.



Image 2.2: One of the four parking sensors included in the kit.



Image 2.3: Detailed dimensions of a single parking sensor, showing its diameter and depth.

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Video 2.1: An unboxing video demonstrating the components typically found in a parking sensor kit. This video helps in identifying all parts before installation.

### 3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your parking sensor kit. It is recommended that installation be performed by a qualified technician.

### 3.1 Pre-Installation Checks

- Ensure the vehicle's ignition is off and the battery is disconnected before starting any electrical work.
- Confirm all kit components are present and undamaged.

### 3.2 Sensor Placement

The four sensors should be evenly spaced across the rear bumper of your vehicle. Mark the desired locations, ensuring they are at a consistent height and clear of any internal bumper structures or metal reinforcements. The system can be programmed to ignore tow bars or spare wheels if necessary.

### 3.3 Drilling Sensor Holes

- Use the provided 18.8mm hole saw to drill holes at the marked locations on the bumper.
- Ensure the drilling is done carefully to avoid damaging the bumper paint or structure.
- Insert the sensors into the drilled holes. The sensors have a 4-degree tilt angle, which should be oriented correctly for optimal detection.

### 3.4 Wiring Connections

- Connect each sensor to its corresponding cable, then route the cables to the main control unit. The sensor cables are detachable for easier routing.
- Connect the main control unit's power cable to the vehicle's reverse light circuit. This ensures the system activates automatically when reverse gear is engaged.
- Connect the buzzer to the main control unit. The electrical frame and buzzer share a single cable.
- Secure all wiring with cable ties to prevent interference or damage.

### 3.5 Mounting the Control Unit and Buzzer

- Mount the main control unit in a dry, secure location within the vehicle's trunk or interior, away from excessive heat or moisture. Use the provided adhesive pads.
- Mount the buzzer in a location where its audible alerts can be clearly heard by the driver.

## 4. OPERATING INSTRUCTIONS

The Steel-Mate PTSC1 parking sensor system operates automatically when the vehicle is put into reverse gear.

### 4.1 System Activation

When you engage reverse gear, the parking sensor system will automatically activate. The buzzer may emit a short beep to confirm activation.

### 4.2 Obstacle Detection and Audible Alerts

As your vehicle approaches an obstacle, the sensors will detect it, and the buzzer will emit a series of beeps. The frequency of the beeps will increase as the vehicle gets closer to the obstacle. The system provides 4-stage audible signaling:

- **Stage 1 (Far Distance):** Slow, intermittent beeps.
- **Stage 2 (Medium Distance):** Faster, intermittent beeps.
- **Stage 3 (Close Distance):** Rapid, continuous beeps.

- **Stage 4 (Very Close/Critical Distance):** Solid, continuous tone, indicating immediate proximity to an obstacle (within approximately 0.3 meters).

Always use caution and visually check your surroundings when reversing, even with the assistance of the parking sensor system.

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Video 4.1: A demonstration of a parking assist kit in operation, showing how the system detects obstacles and provides alerts.

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Video 4.2: Another video showcasing the functionality of a car parking sensor kit, illustrating its use in a practical scenario.

## 5. MAINTENANCE

The Steel-Mate PTSC1 parking sensor kit is designed for durability and minimal maintenance. Follow these guidelines to ensure long-lasting performance:

- **Sensor Cleaning:** Regularly clean the sensor surfaces with a soft, damp cloth to remove dirt, mud, snow, or ice. Obstructions on the sensor surface can impair detection accuracy.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion or damage.
- **Environmental Conditions:** The system is designed to operate in extreme temperatures (-40°C to +80°C) and is rain-resistant. However, avoid direct high-pressure water jets on the sensors.

## 6. TROUBLESHOOTING

If you experience issues with your Steel-Mate PTSC1 parking sensor kit, refer to the following troubleshooting tips:

| Problem                         | Possible Cause                                             | Solution                                                                                                                                                                                                                                                                  |
|---------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No audible alert when reversing | System not powered, faulty buzzer, loose connection.       | Check power connection to reverse light. Ensure buzzer is correctly connected. Inspect all wiring for damage.                                                                                                                                                             |
| Continuous or false alarms      | Sensors obstructed, faulty sensor, incorrect installation. | Clean sensor surfaces. Check for objects near sensors (e.g., tow bar, spare wheel - if not programmed to ignore). Verify sensor placement and connections. The system features an anti-false alarm patent, but extreme conditions or obstructions can still cause issues. |
| Inconsistent detection          | Dirty sensors, loose connections, sensor angle incorrect.  | Clean sensors thoroughly. Check all sensor cable connections. Ensure sensors are installed with the correct 4-degree tilt angle.                                                                                                                                          |

If the problem persists after attempting these solutions, please contact Steel-Mate customer support or a qualified automotive technician.

## 7. SPECIFICATIONS

| Feature                       | Specification                                                         |
|-------------------------------|-----------------------------------------------------------------------|
| Model                         | PTSC1                                                                 |
| Number of Sensors             | 4 (Rear)                                                              |
| Operating Voltage             | 9-16V                                                                 |
| Operating Temperature         | -40°C to +80°C                                                        |
| Power Input                   | <4W                                                                   |
| Buzzer Volume                 | 70-90dB                                                               |
| Detection Range (Rear)        | 0.3m (minimum detection)                                              |
| Sensor Hole Diameter          | 18.8 mm                                                               |
| Visible Sensor Outer Diameter | 22.9 mm                                                               |
| Sensor Depth                  | 20.1 mm                                                               |
| Sensor Tilt Angle             | 4 degrees                                                             |
| Weather Resistance            | Rain-resistant, all-weather design                                    |
| Special Features              | Anti-false alarm patent, programmable to ignore tow bars/spare wheels |

## 8. WARRANTY AND SUPPORT

The Steel-Mate PTSC1 Rear Parking Sensor Kit comes with a **3-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation under normal use conditions. For warranty claims, technical assistance, or further inquiries, please contact your retailer or Steel-Mate customer support with your proof of purchase and product model number (PTSC1).

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