

[Manuals.plus](#) /

› [STEEL MATE](#) /

› STEELMATE PTS200N 2-Sensor Rear Parking Assist System User Manual

STEEL MATE PTS200N

STEELMATE PTS200N 2-Sensor Rear Parking Assist System User Manual

Model: PTS200N

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your STEELMATE PTS200N 2-Sensor Rear Parking Assist System. Please read this manual thoroughly before installation and use to ensure proper function and safety. Retain this manual for future reference.

2. PRODUCT OVERVIEW

The STEELMATE PTS200N is a 2-sensor rear parking assist system designed to enhance safety when reversing your vehicle. It features two ultrasonic sensors for detecting obstacles behind the vehicle and a digital LED display that provides visual distance feedback and audible alerts. The display is specifically designed for rear mounting, presenting a reversed image for correct viewing in the rearview mirror.



Figure 2.1: Overview of the STEELMATE PTS200N parking assist system components, including the control unit, two sensors, wiring, and the LED display unit.

3. SYSTEM COMPONENTS

The STEELMATE PTS200N system includes the following main components:

- **Control Unit (ECU):** The central processing unit that manages sensor data and display output.
- **Ultrasonic Sensors (x2):** Two rear-mounted sensors for obstacle detection.
- **Digital LED Display:** Provides visual distance indication and audible alerts. Designed for reversed viewing in the rearview mirror.
- **Wiring Harness:** Connects the control unit to the sensors, display, and vehicle power.
- **Hole Saw:** Tool for drilling sensor mounting holes in the bumper.
- **Cable Ties:** For securing wiring.

4. INSTALLATION INSTRUCTIONS

Professional installation is recommended. Ensure the vehicle's ignition is off and the battery is disconnected before beginning installation.

4.1 Safety Precautions

- Disconnect the vehicle's battery before installation.
- Ensure all wiring is properly insulated and secured to prevent short circuits or damage.
- Avoid installing sensors near exhaust pipes or other heat sources.

4.2 Sensor Installation

1. Determine the optimal placement for the two sensors on the rear bumper. They should be evenly spaced and at a consistent height, typically between 50-70 cm from the ground.
2. Use the provided hole saw to drill the sensor mounting holes. Ensure the holes are clean and free of burrs.
3. Insert the sensors into the drilled holes, ensuring they are flush with the bumper surface and facing directly backward.
4. Route the sensor cables into the vehicle's trunk area, ensuring they are protected from sharp edges and moving parts.

4.3 Control Unit Placement

Mount the control unit (ECU) securely in a dry, protected area within the vehicle's trunk or rear compartment. Ensure it is easily accessible for wiring connections.

4.4 Wiring

1. Connect the sensor cables to the corresponding ports on the control unit.
2. Connect the power cable from the control unit to the vehicle's reverse light circuit. This ensures the system activates only when the vehicle is in reverse. Connect the ground wire to a suitable chassis ground point.
3. Connect the display cable to the designated port on the control unit.
4. Secure all wiring using the provided cable ties, keeping them away from hot or moving components.

4.5 LED Display Mounting

The digital LED display is designed to be mounted in the rear of the vehicle, typically above the rear window, facing forward. Its display is reversed so that it appears normal when viewed through the rearview mirror. Secure the display using its adhesive pad or mounting bracket in a location that provides clear visibility in the rearview mirror without obstructing the driver's view.

5. OPERATION

Once installed and the vehicle is in reverse gear, the STEELMATE PTS200N system will automatically activate. The LED display will show the distance to obstacles behind the vehicle in feet, and an audible beep alert will sound. The frequency of the beeps increases as the vehicle gets closer to an obstacle. The display's two-color indication provides additional visual cues regarding proximity.

The system features a self-test function, utilizing an on-board processor to perform a diagnostic check between the display and the ECU module upon activation.



Figure 5.1: The digital LED display showing a distance reading and proximity bars, designed for reversed viewing in the rearview mirror.

6. MAINTENANCE

- **Sensor Cleaning:** Periodically clean the sensors on the rear bumper to ensure accurate detection. Use a soft cloth and mild soap solution. Avoid abrasive cleaners.
- **Wiring Inspection:** Occasionally check all wiring connections for looseness or damage. Ensure cables are securely fastened.
- **Display Visibility:** Keep the LED display clean and free from obstructions to maintain clear visibility.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
System does not activate when reversing.	No power to the control unit; faulty reverse light connection; loose wiring.	Check power connection to reverse light. Verify all wiring is secure. Check vehicle's reverse light fuse.
Inaccurate distance readings or false alarms.	Sensors are dirty or obstructed; incorrect sensor angle; electromagnetic interference (RFI).	Clean sensors. Ensure sensors are flush and facing directly backward. Check for nearby RFI sources, especially power lines routed too close to sensor wires.
No audible alert.	Faulty display unit; wiring issue to display.	Check display unit connection. Ensure display is receiving power.

Problem	Possible Cause	Solution
Display shows incorrect or no information.	Faulty display unit; control unit malfunction; loose connection.	Verify all connections. Perform system self-test. If problem persists, contact support.

8. SPECIFICATIONS

- **Model:** PTS200N
- **Sensor Quantity:** 2 (Rear)
- **Display Type:** Digital LED, 2-color, reversed image for rearview mirror viewing
- **Detection Range:** Typically 0.3m to 1.5m (distance shown in feet)
- **Alerts:** Audible beeps (frequency increases with proximity)
- **Operating Temperature:** -40°C to +85°C (-40°F to +185°F)
- **Self-Test Function:** Yes, between display and ECU module
- **Compatibility:** Universal for most vehicles

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact STEELMATE customer service directly. Keep your proof of purchase for warranty claims.

For further assistance, please visit the [STEEL MATE Store](#) or contact your authorized dealer.

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