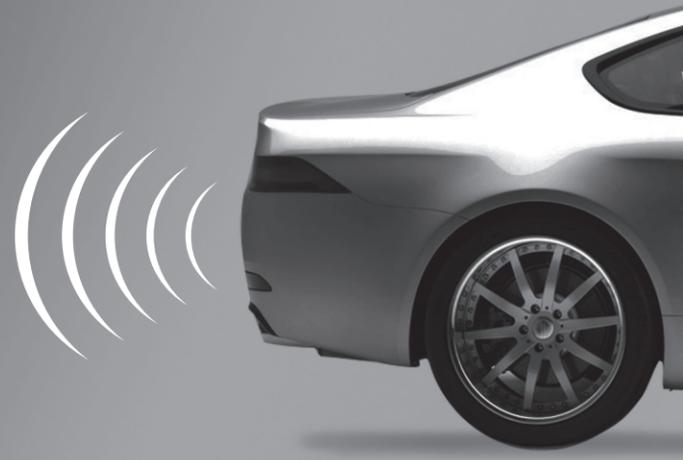


Rear Park Assist

Installation And User Manual

Safety With Innovation



Important notice

This parking assist system provides the driver assistance when reversing. Driving skills such as slowing down, the use of mirrors etc. is always essential.

1. This system is for vehicles with 12V DC.
2. This system should be installed by a professional auto electrician.
3. Route all wiring harnesses away from heat sources and vehicle electrical systems.
4. It is strongly recommended to check the location of the sensors are within the correct specification heights and distances apart before the actual drilling of the holes.
5. Perform test of the system after finishing the installation.

Disclaimer

This parking assist system is designed as a driver assistance device and should not be used as a substitute for safe parking practices. The area into which the vehicle is to be reversed must be constantly visually monitored while parking.

The manufacturer and its distributors do not guarantee or assume liability for collisions or damages while reversing your vehicle.

About the product

The PTSC1 is a 4-sensor rear parking assist system that is an ultrasonic distance monitoring device. It electronically detects the area behind your vehicle while reversing, and alerts you with audible tones if the system detects an obstacle. With features like self test and learning function the PTSC1 is ideal for vehicles with tow-bars or spare wheels.

Key features

- 4 sensor system with audible buzzer
- Can be upgraded with a display
- Anti-false alert technology
- Self-test function
- All weather design

Technical parameter

• Input voltage	9~16V DC
• Beep SPL	70 ~ 90 dB
• Display range	0.3m~2.5m
• Buzzer range	0.3m~1.5m
• Sensor installation height	45 cm ~ 65 cm

Self-test function

When reverse gear is selected, the system will test all rear sensors automatically.
 If all sensors are working correctly, the buzzer will beep once.
 If a damaged or defective sensor is detected, the buzzer will beep 3 times.

For buzzer
 All sensors are working properly Damaged or defective sensor is detected



For display
 All sensors are working properly Damaged or defective sensor is detected



- Note:
- 3 beeps indicate at least one faulty sensor, other sensors will continue working after the 3 beeps.
 - If an optional display is fitted the location of the damaged/defective sensor will be illustrated on the display.
 - If a pair of sensors i.e. A & D or B & C are defective or damaged at the same time the system will work as a 2-sensor system automatically and therefore no error tones will be given.

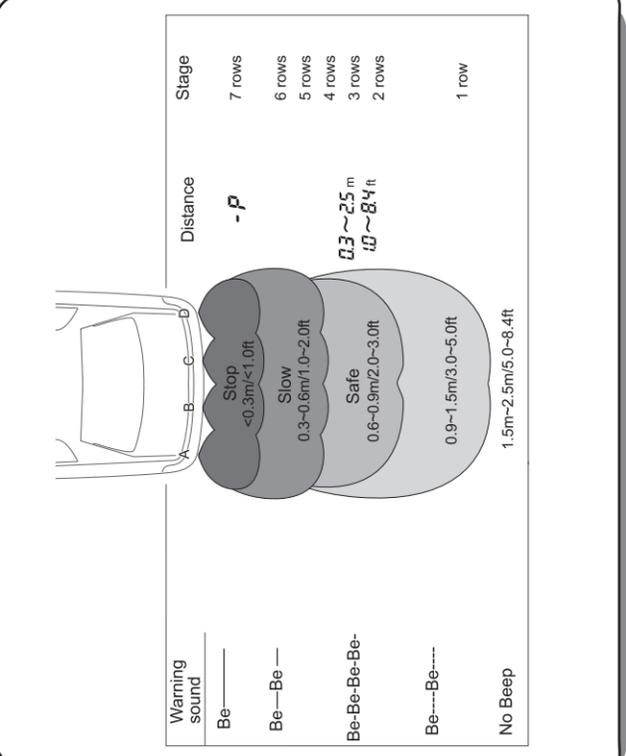
Learning Function for car with tow bars or spare tyre

With the ignition on change gear from "N" to "R" 10 times. Each gear change must be within 1 second. At the 10th time leave the vehicle in the "R" position for 6 seconds to complete the learning process.

Clearing the learning function:
 With the ignition on change gear from "N" to "R" 12 times. Each gear change must be within 1 second. At the 12th time leave the vehicle in the "R" position for 8 seconds to clear the learning function and reset the system.

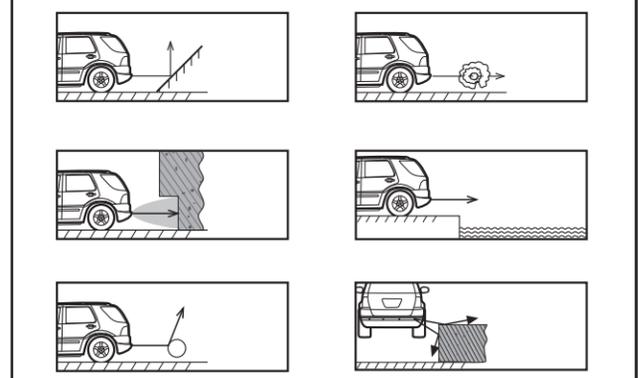
Tip: If you make a mistake while carrying out the above procedure leave the vehicle in the "R" position for 2 seconds to clear the system memory and then start the procedure again.

How does the system work



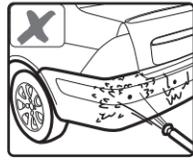
Attention

False detection may occur in the following situations:

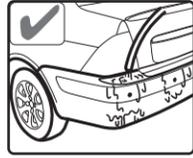


- After installation, please fully test the system before use.
- Heavy rain, dirty or damaged sensors may cause false warning occasionally.
- Ensure that the self-test procedure is completed and all the sensors are functioning before using the system.

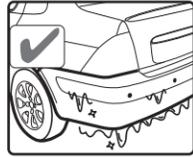
Sensor maintenance



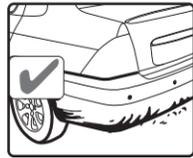
Do not wash the sensors with a pressure washer or scrub them forcibly.



Please wash the car with low-pressure water.



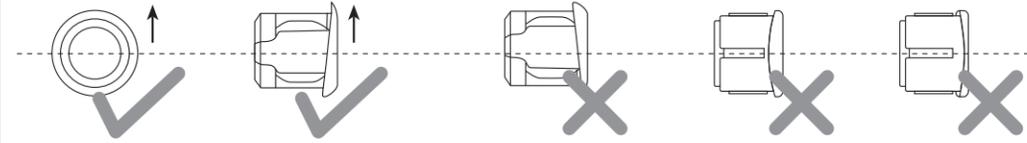
Please melt the ice with water when the sensors are covered by ice.



Please clean the sensors with a cloth or low-pressure water when the sensors are covered by mud or snow.

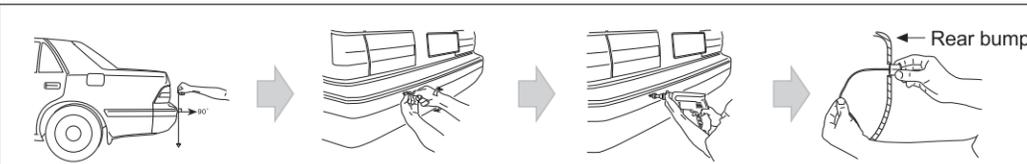
Sensor installation

Important notice: the sensor should be installed vertically



The sensor should be installed vertically

Improper installation will result in false alert



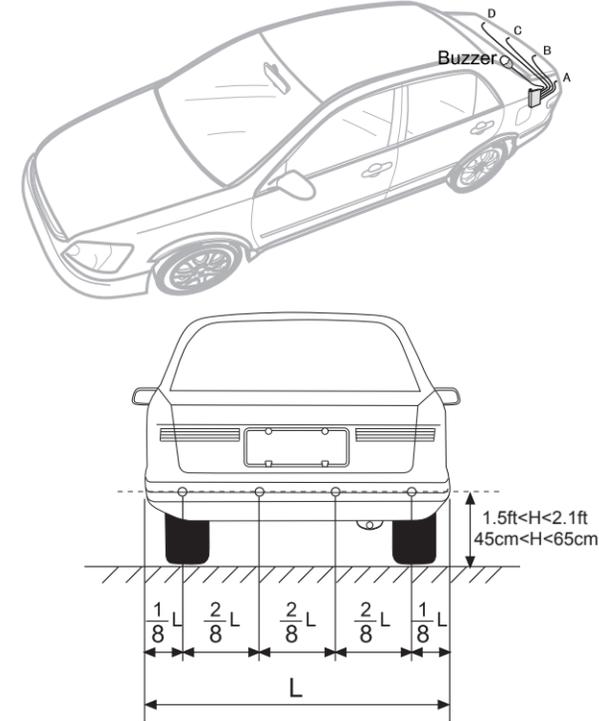
The sensor should be installed vertically.

Mark the sensor position then drill a pilot hole to prevent the hole saw slipping.

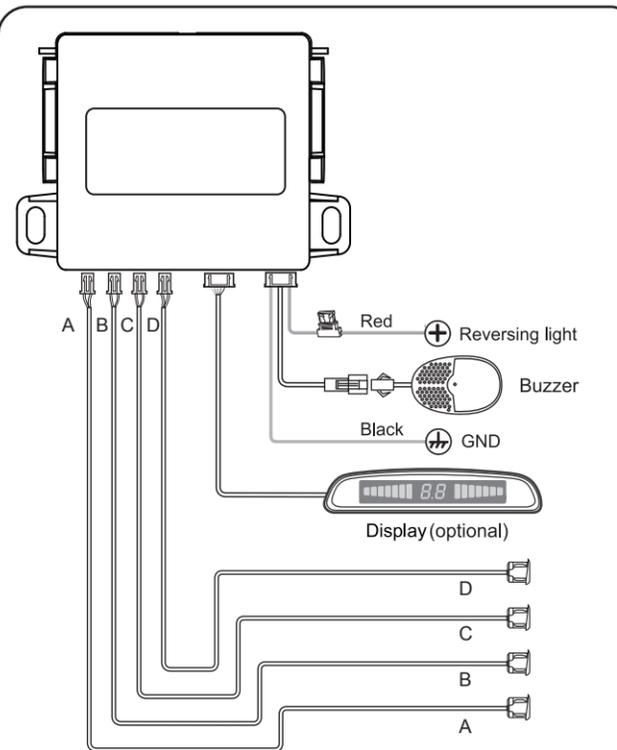
Cut the sensor hole in the bumper with the hole saw.

Push the sensor into the hole.

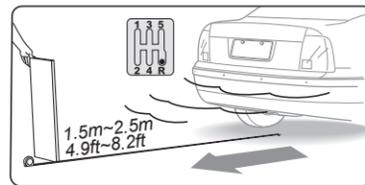
Installation diagram



Wiring diagram



Function testing



To test the system is functioning correctly hold a wooden board (0.3m x 1m/1ft x 3.3ft) at the back of the vehicle and either reverse the vehicle towards the board or walk towards the vehicle with the board to test each sensor functions correctly.

Troubleshooting

• After installation, the buzzer doesn't work

- Are all wires connected properly?
- Is the vehicle's ignition ON?
- Is reverse gear engaged? (the reverse light should be on)

• Damaged sensor detected

- Are all sensors plugged into the ECU correctly and tightly?
- Is a sensor faulty or damaged?
- Is a sensor covered by mud or snow?

d) Is a sensor cable faulty or damaged?

• False warning

- Are all sensors plugged into the ECU in the correct position tightly?
- Does any sensor detect the ground?

• If the problem persists, please follow these steps

- For consumers: contact your dealer or nearby service centre
- For installer or dealer:
 - Replace the ECU and recheck the system
 - Test the sensors with certified ECU by using a flat wooden board
 - Plug the certified sensors into the ECU and recheck
 - Email your question to us and we will reply ASAP

Warranty information

This product is covered by 12 months warranty and a free 2 years additional warranty can be claimed by simply registering this product online at www.steel-mate.co.uk. The standard and additional warranty only cover the replacement of faulty parts. Steelmate are not liable and will not pay any labour costs incurred during the removal and or re-installation of warranted equipment or parts. Our warranty department is open from 09:00-17:30 Mon-Fri and can be contacted by telephone on 01582 475677 or by email (warranty@steel-mate.co.uk) should you require any further assistance.

Warranty card

Dear user:

Thank you for choosing this product. Please fill the form below and retain it.

User's information:

User:
Tel:
Vehicle registration No.:
Product model No.:
Serial No.:
Date of installation:
Name of the retailer