Think Safety Think Steelmate

Steelmate Automotive UK Ltd LU5 5BQ













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Parking Assist System

User's Manual

Important notice

Parking assist systems help to provide assistance when reversing and parking. Driving skills, such as slowing down, use of mirrors etc. is always essential.

- 1. This unit is for vehicles with 12V DC only.
- 2. Unit should be installed by a professional auto technician.
- 3. Route wiring harness away from heat sources and electrical components.
- It is strongly recommended to check the position of the sensors before the actual drilling of the holes.
- 5. Perform a test after installation.

Disclaimer

The 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 PTS400EX 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 and/or optional visual display, if the system detects an obstacle. If you have one of the optional displays fitted with the digital numbers the system will accurately show the distance to the obstacle. With features like self-test and the learning function the PTS400EX is ideal for cars with tow-bars or spare wheels.

The various optional displays available are suitable for dash, interior mirror or rear roof mounting. When the display is mounted on the rear roof it can be easily viewed from the interior mirror.

Key features

- The system can be upgraded to use a display with built-in buzzer
- Can be used as a 2-sensor system
- Dual intelligent functions for cars with tow-bars, spare wheels or other protrusions
- Precise detection range
- Self-test function
- Anti-false alert technology

Technical specifications

Input voltage: 12V DCWorking power: <2.5W

Detection range: 0.1~2.5m/0.3~8.2ft
 Alarm range(Buzzer): 0.1~1.5m/0.3~4.9ft
 Operating temperature: -40°C ~ +85°C/

-40°F~+185°F

• Buzzer SPL: 70 ~ 90dB

Buzzer & Display (optional)

The alert buzzer can be upgraded to a display. These pictures are for reference only, the actual display may vary.

Only some LED displays have a set button or digital indication. Digital indicator and adjustable volume function depend on the display you choose.



Buzzer

LED display



LCD display







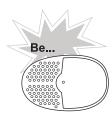
elf test function

Rear parking system

When reverse gear is selected, the system will test the rear sensors A, B, C and D automatically. If all sensors are working normally, the buzzer will beep once.

If a damaged or defective sensor is detected, then the system will:

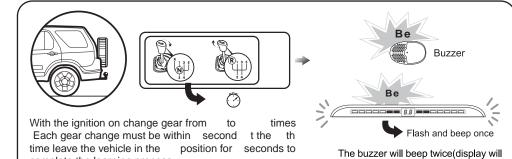
- Beep three times
- Other sensors will continue to function normally.
- 1. All sensors are working normally



2. Damaged sensor is detected



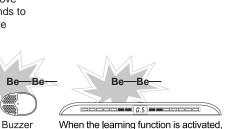
Learning function for cars ith to bars or spare heels



With the ignition on change gear from to times Each gear change must be within second t the th time leave the vehicle in the position for seconds to clear the learning function and reset the system.

complete the learning process.

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



flash and beep once), this indicates that the learning function is successful

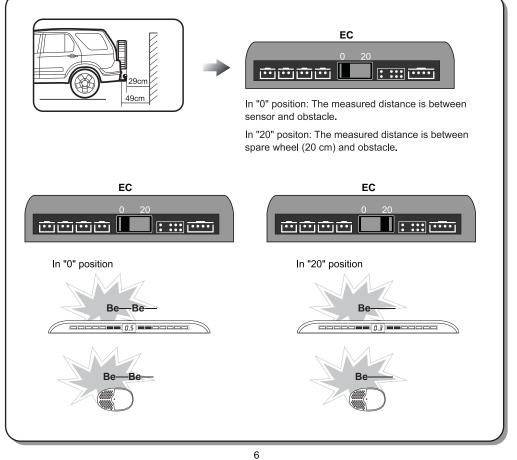
and the system will not warn for tow-

bar or spare wheel.

the system will ignore the tow-bar or spare wheel and only detect other objects behind the vehicle.

Note: If the vehicle does not have tow-bar or spare wheel, you do not need to use this function.

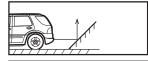
Dual intelligent function for spare Wheels (optional)

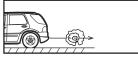


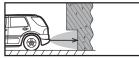
Attention

ensor maintenance

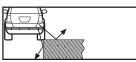
False detection may occur in the following situations:



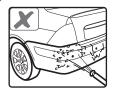




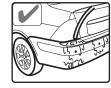




- After installation, please fully test the system before use.
- Heavy rain, dirty or damanged sensors may cause false warning occasionally.
- Ensure that the self-test procedure is completed and all sensors are functioning before using the system.



Do not wash the sensor with a pressure washer of scrub them forcibly.



Please wash car with lowpressure water.

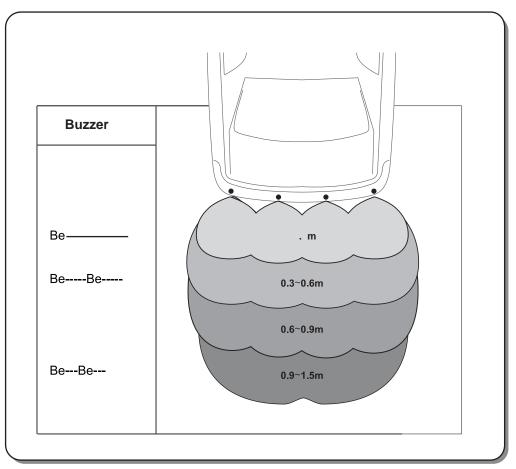


Please melt the ice with water when the sensors are covered by ice.



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

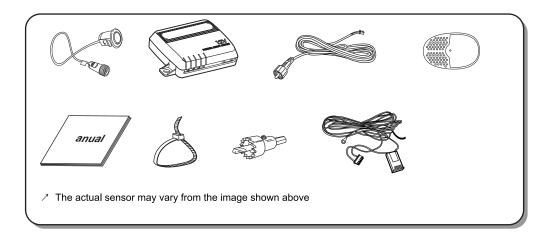
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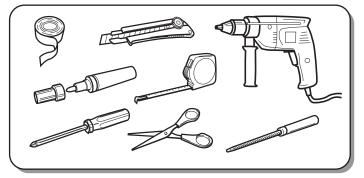
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Installation Manual

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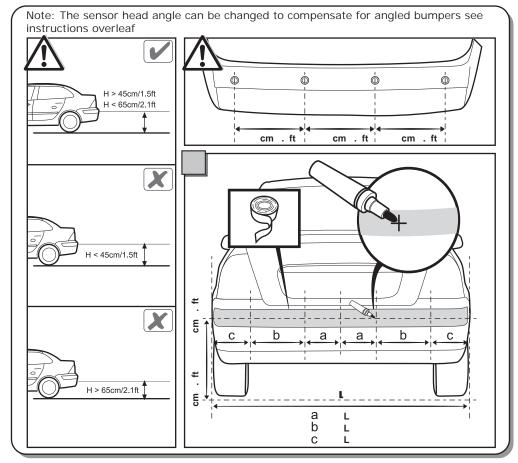


nstallation tools

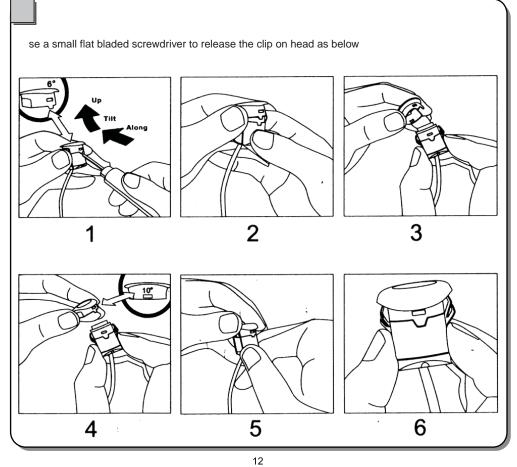


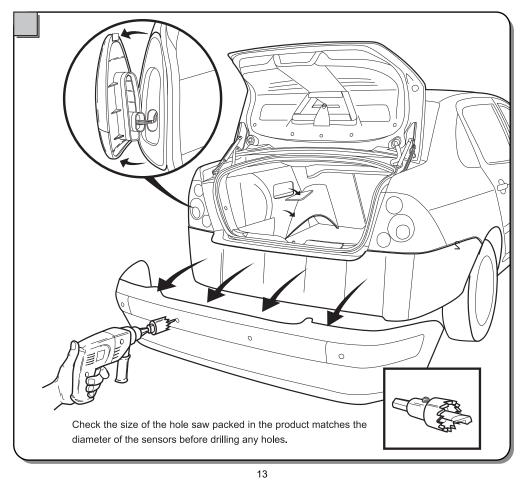


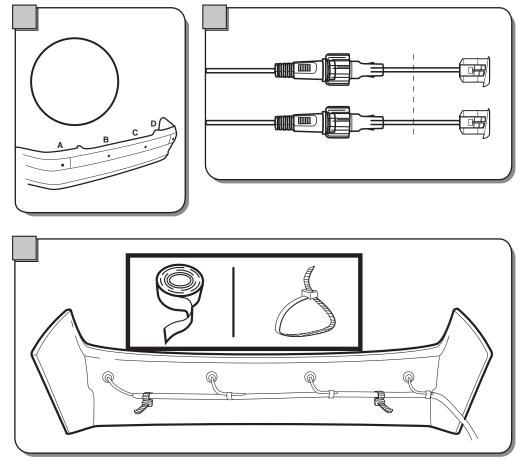
ensor installation

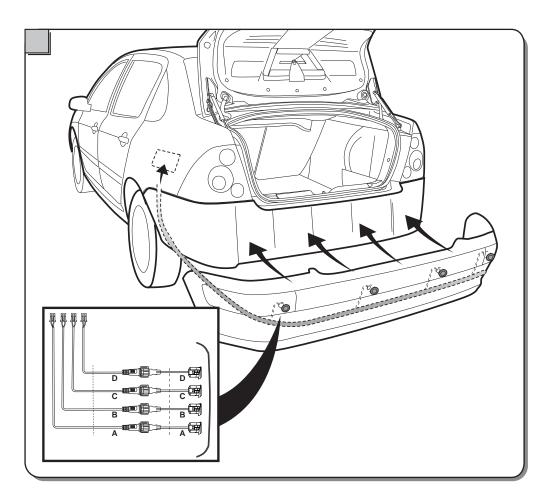




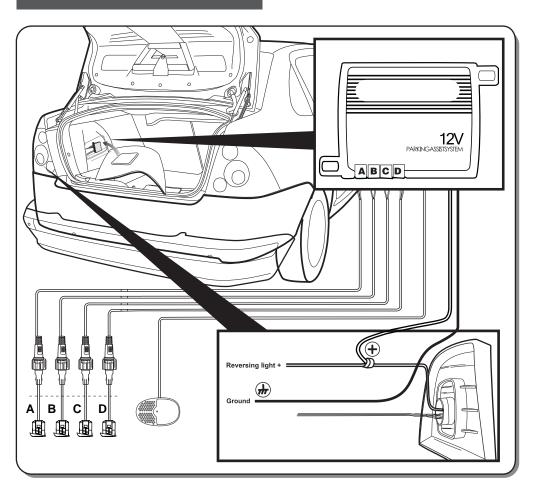




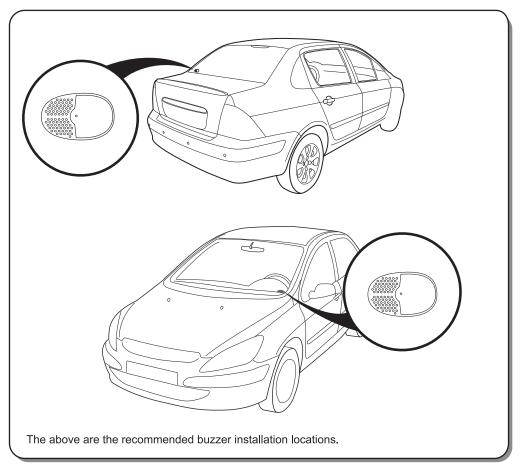




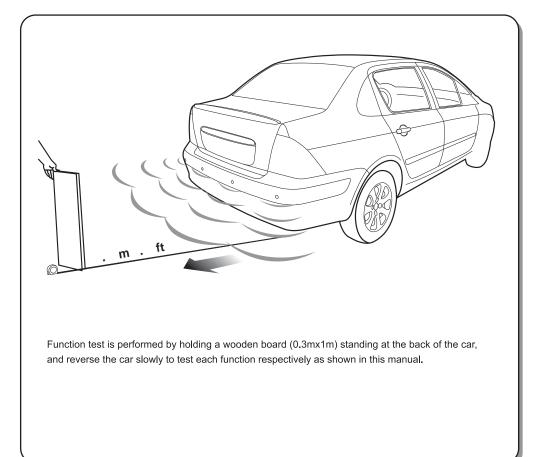
EC installation



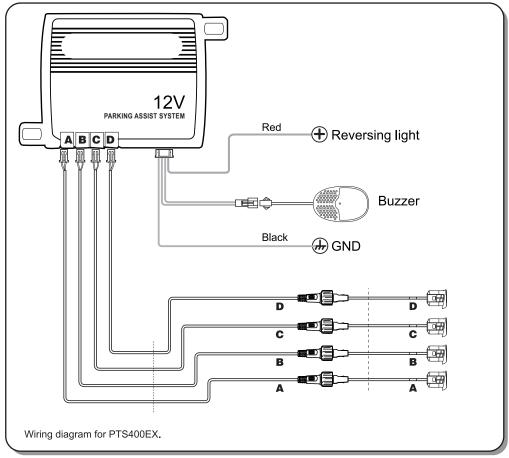
Buzzer installation



unction test after installation



iring diagram



Troubleshooting

After installation, the buzzer or display doesn't work

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

Damaged sensor detected

- a) Are all sensors plugged into the ECU correctly and tightly?
- b) Is the sensor faulty?
- c) Is the sensor covered by dirt or snow?
- d) Is the sensor damaged?

False warning

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

Warning sound is too low or too high (display)

a) Press the Set button to adjust the volume to a suitable level.

If the problem persists, please follow these steps

- a) For consumer: contact your dealer or nearby service centre.
- b) For installer or dealer:
- 1) Test the sensors with certified ECU by using a flat wooden board.
- 2) Replace the ECU and recheck the system.

- 3) Plug the certified sensors into the ECU and recheck.
- 4) Email your question to us and we will reply ASAP.

Warranty information



Dear Customer:

Thank you for choosing a Steelmate product. This product comes with our standard month warranty. To receive our additional limited product lifetime warranty for this product you must complete the warranty registration form that can be found at the web address below

www.steel-mate.co.uk

ur standard month warranty and our limited product lifetime warranty only covers parts. Steelmate are not liable and will not pay any labour costs incurred during the removal and or re-installation of warranted e uipment or parts. The limited product lifetime warranty applies only to the original end user/customer of the product for so long as the original end user/customer owns the product. This limited warranty is not-transferable. When registering for the additional warranty online it is not essential to supply the product serial number, however when making a claim the product serial number shown on the E must be on all claim correspondence. Il warranty claims should be processed as per the instructions on our website under the warranty section and proof of purchase must be provided for both our month and our limited product lifetime warranties .

ur warranty department is open from - on- ri and can be contacted by telephone on 4 or by email warranty steel-mate.co.uk should you re uire any further assistance.

Steelmate limited product lifetime warranty is for the product lifetime which is limited to years.

arranty card

