

PTS400EX

Parking assist system Manual

Contents

User's Manual

Important notice	
Disclaimer	,
About the product	2
Key features	2
Technical specifications	2
Buzzer & Display (optional)	;
Self-test function	4
Learning function for cars with tow-bar or spare	
wheel	
Dual intelligent function for spare whee (optional)	

Attention ----- 7

Sensor maintenance ----- 7

How does the system work ----- 8

Installation Manual

Packing list 10
Installation tools10
Sensor installation11
ECU installation 15
Buzzer installation 16
Function test after installation 17
Wiring diagram 18
Troubleshooting19

Parking Assist System

User's Manual

Important notice

Steelmate 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

Parking assist system is an ultrasonic distance monitoring system. It electronically detects the area behind your vehicle while reversing, and alerts you with audible tones and display, if the system detects an obstacle. The system will show the accurate distance in meters or feet depending on your region.

PTS400EX is a 4-sensor rear parking assist system. It will warn you if there is an obstacle behind your vehicle. Combined with functions such as beep alarm (can be upgrade to LED/LCD display), self-test and learning function, PTS400EX is ideal for cars with tow-bar or spare wheels.

The various display(optional) is perfect for roof mounting, which allows you to view the display from the interior mirror. It can also be installed on the dashboard or on top of the rear view mirror according to your preference.

Each part of this product has passed the most stringent test before releasing to the market. It is reliable at a wide temperature range (-40°C ~ +85°C/-40°F~+185°F) and becomes very useful when you are parking in poor weather conditions.

With the help of parking assist system, you can enjoy a convenient and easy parking experience.

Key features

- Buzzer can be upgraded to various display with built-in buzzer
- Roof mount/ Interior mirror/ dashboard installation choices (depend on the specialty of various display)
- Can be used as 2-sensor system
- Dual intelligent functions for cars with tow-bar, spare wheels or other protrusion
- Precise detection range
- Self-test function
- Anti-false alert technology

Technical specifications

• Input voltage: 12V DC

• Working 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 display. These pictures are for reference only, the actual display may vary.

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



Buzzer

LED display





LCD display





Self-test function

Rear parking system

When reverse gear is selected, the system will test the rear sensors A, B, C and D automatically. If al 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 sensor will continue to function normally.
- 1. All sensors are working normally

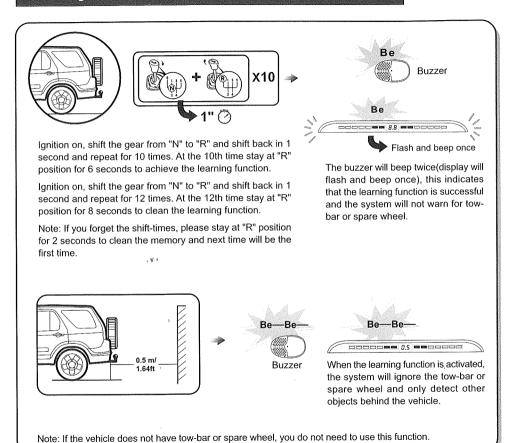


2. Damaged sensor is detected

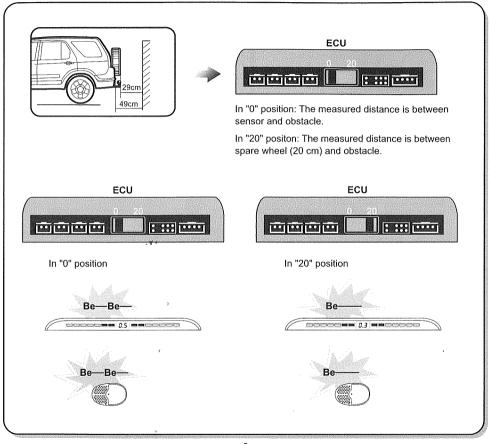
Be...Be...Be...



Learning function for cars with tow-bar or spare wheel



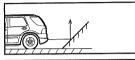
Dual intelligent function for spare whee (optional)

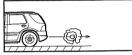


Attention

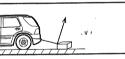
Sensor maintenance

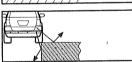
False detection may occur in the following situations:



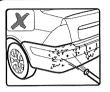




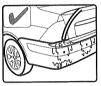




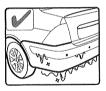
- After installation, please fully test the system before use.
- Heavy rain, dirty or damanged sensors may cause false warning occasionally.
- Ensure that the self-test procedure is completed and all sensors are functioning before using the system.



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



Please wash car with lowpressure water.

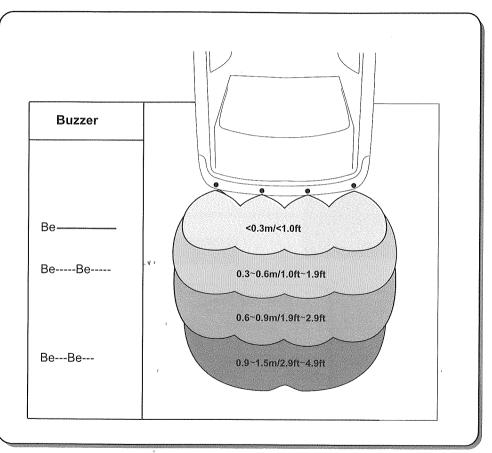


Please melt the ice with water when the sensors are covered by ice.



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

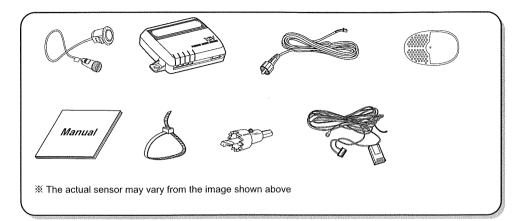
How does the system work



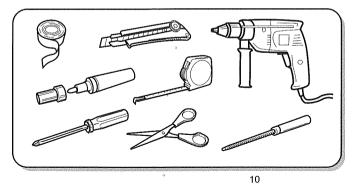
Parking Assist System

Installation Manua

Packing list

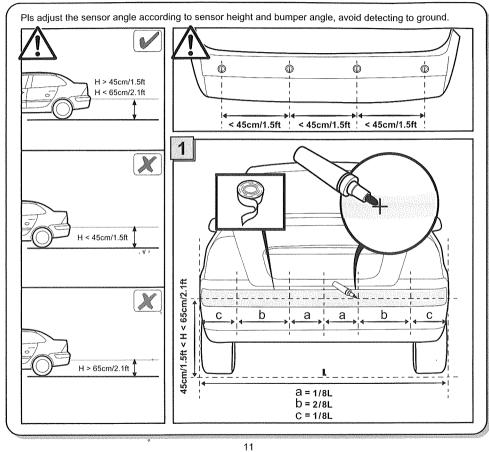


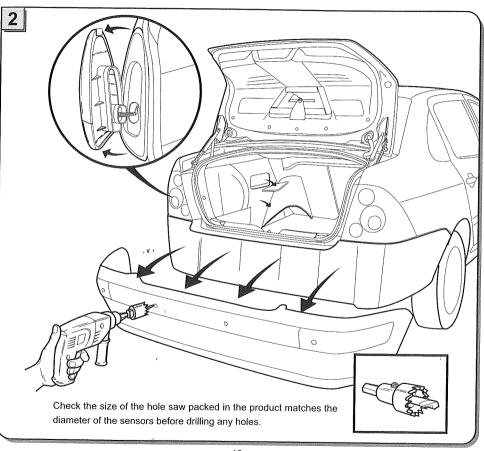
Installation tools

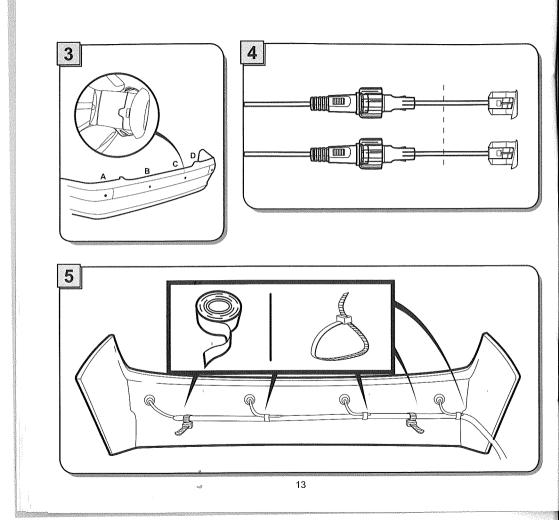


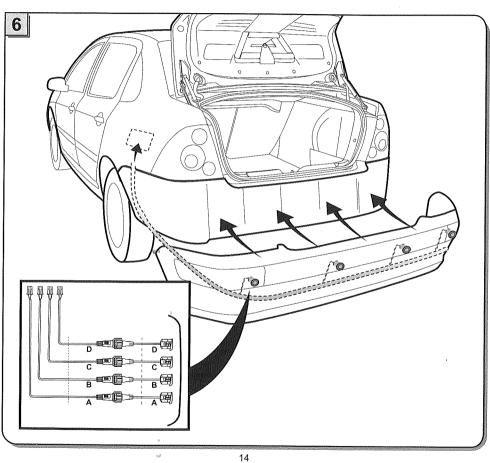


Sensor installation

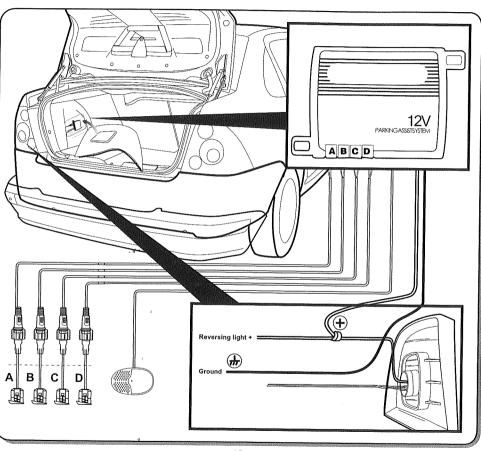




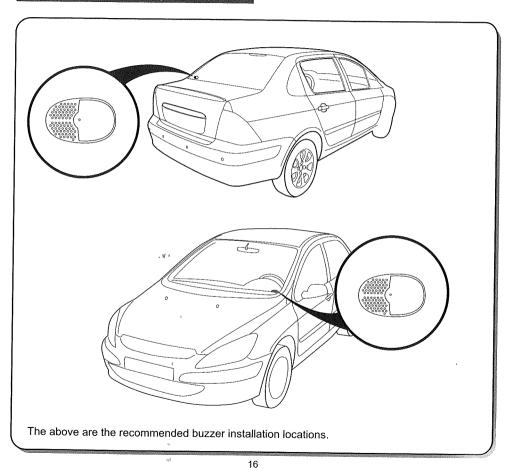




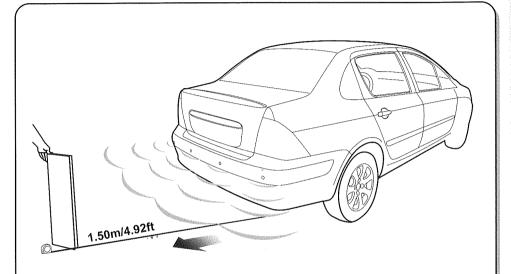
ECU installation



Buzzer installation

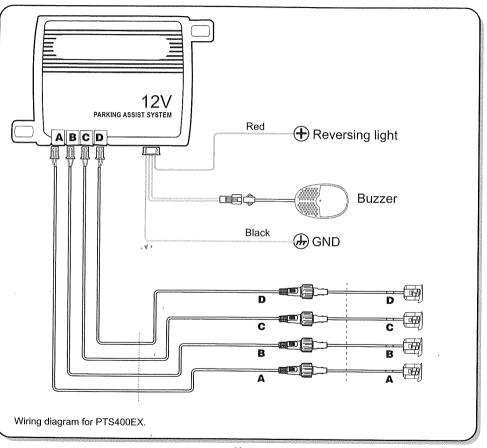


Function test after installation



Function test is, performed by holding a wooden board (0.3m x 1m/0.98ft x 3.28ft) standing at the back of the car, and reverse the car slowly to test each function respectively as shown in this manual.

Wiring 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 the reversing gear engaged (the reversing light should be turned 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?
- c) Does rubber ring in the sensor come out (14D sensor)?

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.

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

Think safety think Steelmate



STESUMATE CO. LTD

www.steel-mate.com

. All rights reserved

The trademark, patent and copyright are owned by Steelmale Co., Ltd.

The public organize the design and specifications inserved.

