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PTS411 Series

Parking Assist System

4 Sensor Parking Assist System

User
Manual



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Important notice

Parking Assist System (PTS) helps to provide assistance when reversing and parking. Driving skills such as slowing down, use of mirrors are always essential.

1. This system is for vehicles with DC 9~27V only.
2. This system should be installed by a professional auto technician.
3. Route wiring harness away from heat source and electrical components.
4. It is strongly recommended to check the position of the sensors before the actual drilling of the holes.
5. Perform a functional test after installation.

User Manual

Disclaimer

Our products are to assist and aid the driver, not to replace the manual function of the person operating the vehicle. Although the PTS is a visual aid and will allow you to view what is behind the vehicle, it does not remove the responsibility of driving the vehicle from the driver. Legal responsibility and safe driving practise remains with the driver at all times. You have purchased this product with the understanding that its use is as an aid only. We highly recommend that you have this product professionally installed to ensure that it will provide the functions it is set out to perform.

About the Product

The PTS411 is a 4-sensor parking system that can be used as a front or rear ultrasonic distance monitoring device (Dual-purpose). It electronically detects the area in front or behind the vehicle while reversing and driving forward. If the system detects an obstacle, it will provide alerts with audible tones and visual warnings, depending on the model purchased. The system assists the driver when parking and in manoeuvring situations.

All the detachable sensors are waterproof and can be easily changed. Combined with anti-interference and anti-false alert technology, the system can detect obstacles in a wide variety of weather conditions and respond quickly. The system has intelligent detection, which is ideal for vehicles with a tow-bar or spare tire.

Each element of this system has passed the most stringent test before being released to the market. It is reliable at a wide storage temperature range and becomes very useful when you are parking on a raining day, snowing day or at night etc. With the help of a parking assist system, you can enjoy a comfortable, relaxed and safer parking experience.

2 or 4-Sensor Automatic Recognition

The parking system can be used as a 2-sensor system when fitted on either the front or rear of your vehicle. When using as a 2-sensor system, make sure you connect the sensors to either B&C port or A&D port on the ECU. (please refer to page 30-33)

Key Features

- Dual-purpose parking assist system, can be used as a front or rear kit
- Can be used as a 2-sensor system (2 front or 2 rear)
- Buzzer can be upgraded with a visual display. Please contact your local dealer for purchasing accessories.
- Self-testing function
- Anti-false alert technology
- Dual intelligent function together with learning function for vehicle with tow-bar, spare wheel or other protrusions

Optional Extension Cable

When fitting this system on the front of a vehicle, we highly recommend purchasing a set of sensor cable extensions.

These extend the supplied 2.3m sensor cable by 2.3m making the sensor cables 4.6m long.

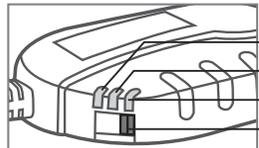
Only applicable for PTS411.

Specifications

| | |
|------------------------|---|
| Operating voltage: | DC 9~27V |
| Operating current: | <250mA |
| Buzzer SPL: | 80±10dB |
| Operating temperature: | |
| ECU: | -40°C~+80°C |
| PTS411: | -40°C~+80°C |
| PTS411-M6: | -40°C~+80°C |
| Storage temperature: | |
| ECU: | -40°C~+85°C |
| PTS411: | -40°C~+85°C |
| PTS411-M6: | -40°C~+85°C |
| Detection range: | |
| Front: | 0.30~0.99m 0.30~0.59m (reversing) |
| Rear: | 0.30~2.59m |

PTS411 Volume and Frequency Adjustment

Volume adjustment

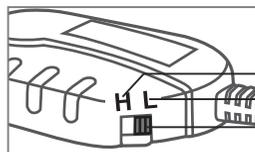


Low volume
Medium volume
High volume
Volume switch

Frequency adjustment

The PTS411 sound frequency can be adjusted to High / Low by turning the frequency switch.

Tips: If the PTS411 is installed together with the front sensor system, it is recommended to use low frequency "L" sound alarm for rear system and high frequency "H" sound alarm for the front system for distinguish between the 2 system alarms easily.



High frequency sound
Low frequency sound
Frequency switch

PTS411 Front or Rear System Optional

The system can be used as a front or rear parking system. You can select your preference by changing a jumper on the ECU before installation.



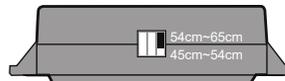
Jumper position: "F"
The system used as a Front system



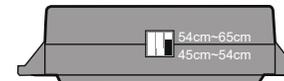
Jumper position: "R"
The system used as a Rear system

PTS411 Sensor Installation Height

The system can vary the sensor installation height, achieved by changing a jumper on the ECU before installation.



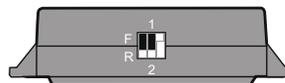
Jumper position: "54cm~65cm" (Default setting)
Recommended setting for sensor installation heights between 54cm~65cm from the ground



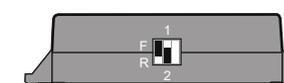
Jumper position: "45cm~54cm"
Recommended setting for sensor installation heights between 45cm~54cm from the ground.

PTS411 Activated by Pressing Footbrake (Front System)

This function is for a front sensor system (jumper position in "F"). The front system is activated by pressing the footbrake. When you press the footbrake and release it, the system will continue to work for the period of time you configure:

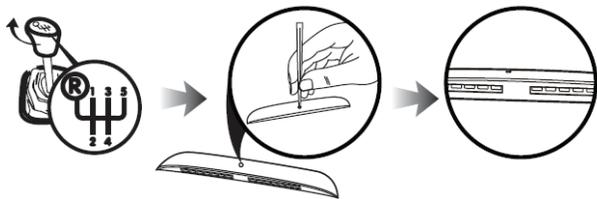


Jumper position: "1" (Default setting)
The system continues to work for 8 seconds
Recommended for Automatic Cars



Jumper position: "2"
The system continues to work for 20 seconds
Recommended for Manual Cars

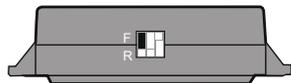
PTS411-M6 Volume and Frequency Adjustment



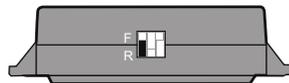
Turn your vehicle ignition to "Accessories" on and press the SET button once. You will hear a beep as the front system enters volume adjustment mode. When reverse gear is selected, press the SET button once. You will hear a beep as the rear system enters volume adjustment mode. In either mode, press the SET button again to select the volume level, it will save and exit after 1 second. To change the volume setting, press the SET button multiple times: '0' for mute, '1' for Min, '2' for Max.

PTS411-M6 Front or Rear System Optional

The system can be used as a front or rear parking system. You can select your preference by changing a jumper on the ECU before installation.



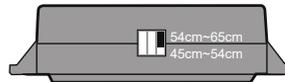
Jumper position: "F"
The system is being as Front system



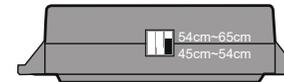
Jumper position: "R"
The system is being as Rear system

PTS411-M6 Sensor Installation Height

The system can vary the sensor installation height, achieved by changing a jumper on the ECU before installation.



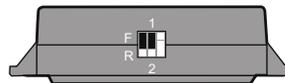
Jumper position: "54cm~65cm" (Default setting)
Recommended setting for sensor installation heights between 54cm~65cm from the ground



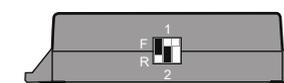
Jumper position: "45cm~54cm"
Recommended setting for sensor installation heights between 45cm~54cm from the ground.

PTS411-M6 Activated by Pressing Footbrake (Front System)

Make these settings to set up as a front parking system (jumper position in "F"). The front system is activated by pressing the footbrake. When you press the footbrake and release it, the system will continue to work for the period of time you configure:



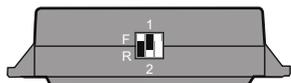
Jumper position: "1" (Default setting)
The system continues to work for 8 seconds
Recommended for Automatic Cars



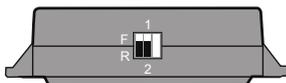
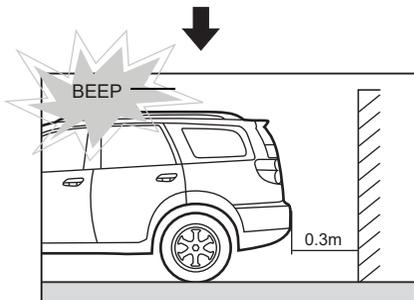
Jumper position: "2"
The system continues to work for 20 seconds
Recommended for Manual Cars

Dual Intelligent Function for Spare Wheel (Rear System)

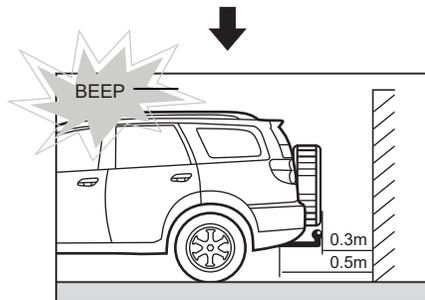
Make these settings to set up as a rear parking system (jumper position in "R").
When this function is ON, the detected distance will increase 20cm (from 30cm to 50cm) between the sensor and obstacles. This extra distance is designed to factor in a tow-bar or spare wheel.



Jumper position: "1"
(Default setting)
Normal detected distance



Jumper position: "2"
The detected distance between the sensor head and the obstacle will be increased by 20cm



Note: The optional display will still show a reading of 0.3m before -P when the jumper is in position 2.

Self-Testing Function

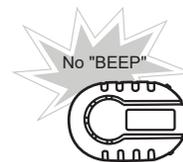
For Front System:

Once your vehicle ACCESSORIES is turned on, the system will test all front sensors automatically. If all sensors are working properly, the buzzer will not sound alert. If a damaged or defective sensor is detected, then the system will "BEEP" 3 times for alarm.

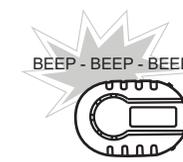
After completing the self-testing function, the system will continue working for 8 seconds (jumper position "1" in ECU) or 20 seconds (jumper position "2" in ECU) when the vehicle is moving towards or away from obstacles.

For Model PTS411

All sensors are working properly

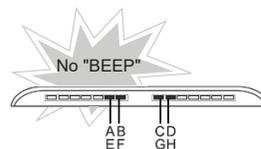


Damaged or defective sensor is detected.

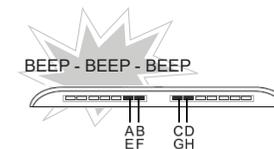


For Model PTS411-M6

All sensors are working properly



Damaged or defective sensor is detected.



Notes:

- If sensors are damaged or defective, the buzzer will BEEP 3 times.
- The locations of damaged / defective sensors will be shown on the display.
- The system will not sound alert when sensors (A&D) or (B&C) are damaged or defective as it will work as 2-sensor front system automatically.

For Rear System:

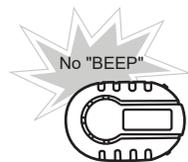
When reverse gear is selected, the system will test all rear sensors automatically.

If all sensors are working properly, the buzzer will "BEEP" once.

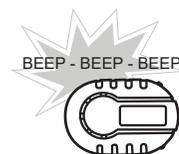
If a damaged or defective sensor is detected, then the system will "BEEP" 3 times for alarm.

For Model PTS411

All sensors are working properly

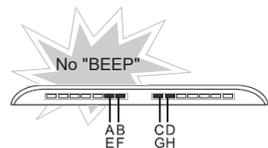


Damaged or defective sensor is detected.

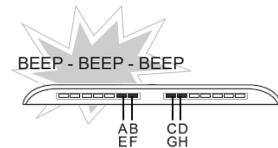


For Model PTS411-M6

All sensors are working properly



Damaged or defective sensor is detected.



Notes:

- If sensors are damaged or defective, the buzzer will BEEP 3 times.
- The locations of damaged / defective sensors will be shown on the display.
- The system will not sound alert when sensors (A&D) or (B&C) are damaged or defective as it will work as a 2-sensor rear system automatically.

Learning Function

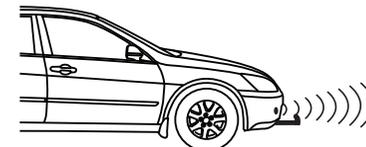
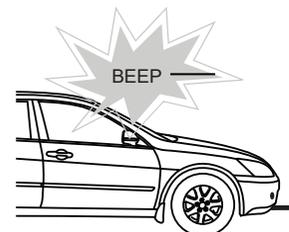
Learning function for cars with nudge bars or other protrusions (Front System)

Please find a location without obstacles to activate this function.

1. With the ignition "ON", press and release the footbrake 10 times in 1 second intervals.
2. On the 10th time, hold the footbrake down, the buzzer will "BEEP" once after 5 seconds, then will do a long "BEEP" for 2 seconds after 3 seconds to complete the learning process.

Clear the learning function:

1. With the ignition "ON", press and release the footbrake 12 times in 1 second intervals.
2. On the 12th time, hold the footbrake down, the buzzer will "BEEP" once after 5 seconds, then "BEEP" once again after 3 seconds to complete the clearing process.



Note:

- This function is valid and achievable only if all sensors are working properly.
- The above procedure must be carried out within 3 minutes of the ignition being switched on. If the ignition has been on for over 3 minutes, turn the ignition off and back on again.
- If you make a mistake while carrying out the above procedure, release the footbrake for 3 seconds to clear the system memory and then start the procedure again.
- If the vehicle does not have nudge bars or other protrusions, you do not need to use this function.
- Perform a functional test after the learning function is set.

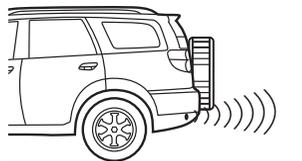
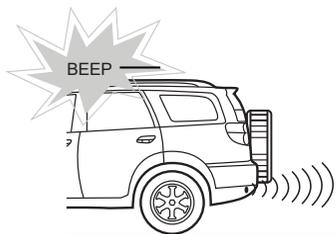
Learning Function for Cars with Tow-Bar or Spare Wheel (Rear System)

Please find a location without obstacles to activate this function.

1. With the ignition "ON", change the gear from "N" to "R" 10 times (Each gear change must be within 1 second).
2. On the 10th time, leave the gear in "R" position, the buzzer will "BEEP" once after 2 seconds, then will do a long "BEEP" sound for 2 seconds after 3 seconds to complete the learning process.
3. When the learning function is activated, the system will ignore the tow-bar or spare wheel and only detect behind the vehicle.

Clear the learning function:

1. With the ignition "ON", change the gear from "N" to "R" 12 times (each gear change must be within 1 second).
2. On the 12th time, leave the gear in "R" position, the buzzer will "BEEP" once after 2 seconds, then "BEEP" once again after 2 seconds to complete the clearing process.

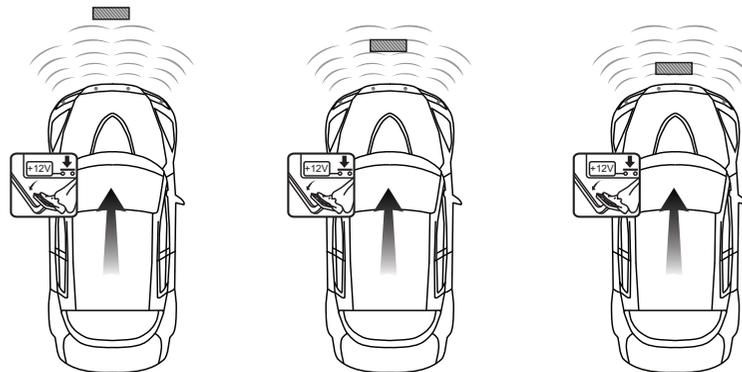


Note:

- This function is valid and achievable only if all sensors are working properly.
- If you make a mistake while carrying out the above procedure, leave the gear in "R" position for 2 seconds to clear the system memory and then start the procedure again.
- If the vehicle does not have a tow-bar or spare wheel, you do not need to use this function.
- Perform a functional test after the learning function is set.

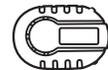
How Does the System Work (Front System)

Driving forward, press footbrake



For PTS411:

No "BEEP"



Distance: >1.0m

BEEP - BEEP



Distance: 0.6m

BEEP



Distance: <0.3m

For PTS411-M6:

No "BEEP"



Distance: >1.0m

BEEP - BEEP



Distance: 0.6m

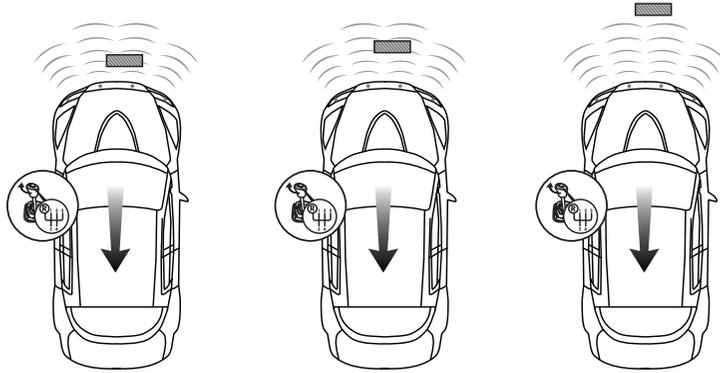
BEEP



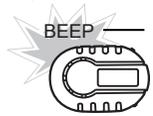
Distance: <0.3m

Note: The max. detection range of outside (A&D) sensors is 0.69m.
The max. detection range of central (B&C) sensors is 0.89m.

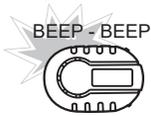
Reversing



For PTS411:



Distance: <0.3m



Distance: 0.4m



Distance: >0.7m

For PTS411-M6:



Distance: <0.3m



Distance: 0.4m

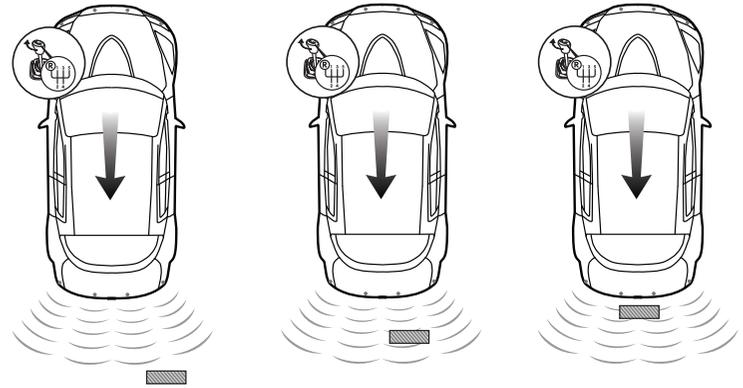


Distance: >0.7m

Note: The max. detection range of outside (A&D) sensors is 0.69m
The max. detection range of central (B&C) sensors is 0.59m

How Does The System Work (Rear System)

Reversing



For PTS411:



Distance: >1.5m



Distance: 0.6m



Distance: <0.3m

For PTS411-M6:



Distance: >1.5m



Distance: 0.6m



Distance: <0.3m

Note: The max. detection range of outside (A&D) sensors is 0.99m.
The max. detection range of central (B&C) sensors is 1.49m.

Different Scenarios for System (Front System)

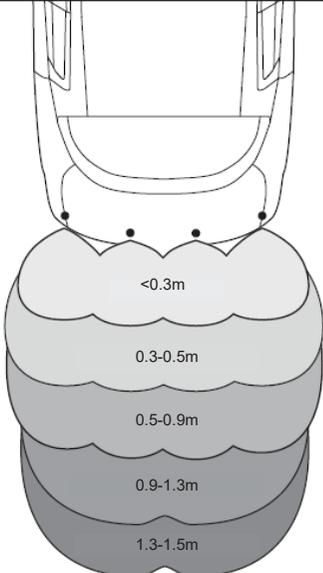
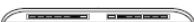
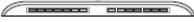
Braking:

| PTS411 | | PTS411-M6 |
|----------------------------|------------|-----------|
| | | Backlight |
| NO BEEP | 0.90-0.99m | |
| BEEP--- BEEP--- | 0.80-0.89m | |
| BEEP-- BEEP-- | 0.60-0.79m | |
| BEEP- BEEP- | 0.40-0.59m | |
| BEEP- BEEP- BEEP- BEEP- | 0.30-0.39m | |
| BEEP----- | <0.30m | |

Reversing:

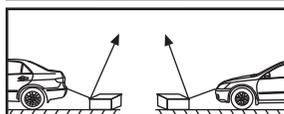
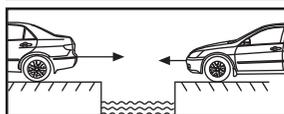
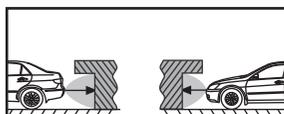
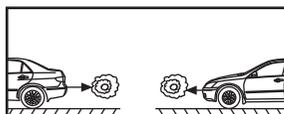
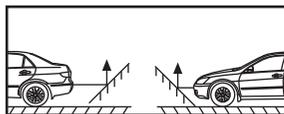
| PTS411 | | PTS411-M6 |
|----------------------------|------------|-----------|
| | | Backlight |
| NO BEEP | >0.6m | |
| BEEP--- BEEP--- | 0.50-0.59m | |
| BEEP- BEEP- BEEP- | 0.40-0.49m | |
| BEEP- BEEP- BEEP- BEEP- | 0.30-0.39m | |
| BEEP----- | <0.30m | |

Different Scenarios for System with Buzzer (Rear System)

| PTS411 |  | PTS411-M6 | |
|----------------------------|---|---|----------|
| | | Backlight | Distance |
| BEEP----- | |  | <0.3m |
| BEEP- BEEP- BEEP- BEEP- | |  | 0.3-0.5m |
| BEEP- BEEP- BEEP- | |  | 0.5-0.6m |
| BEEP-- BEEP-- | |  | 0.6-0.9m |
| BEEP--- BEEP--- | |  | 0.9-1.1m |
| | |  | 1.1-1.3m |
| | |  | 1.3-2.5m |

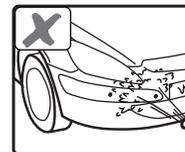
Attention

False detection may occur in the following situations:

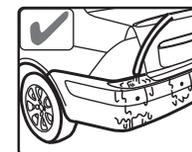
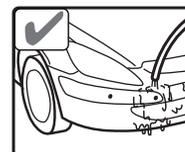


- After installation, perform a functional test before use.
- Heavy rain, dirty or damaged sensors may cause a false alarm occasionally.
- Ensure that the self-testing procedure is completed and all sensors are functioning properly before using the system.

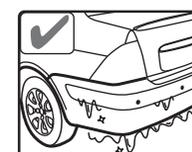
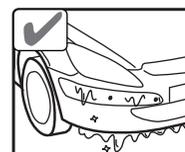
Sensor Maintenance



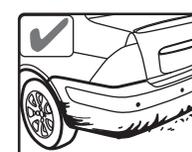
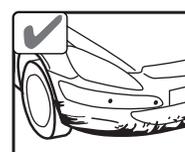
Do not wash the sensor with a pressure washer or scrub them forcibly.



Wash car with low-pressure spray.



Melt snow with water when the sensors are covered.



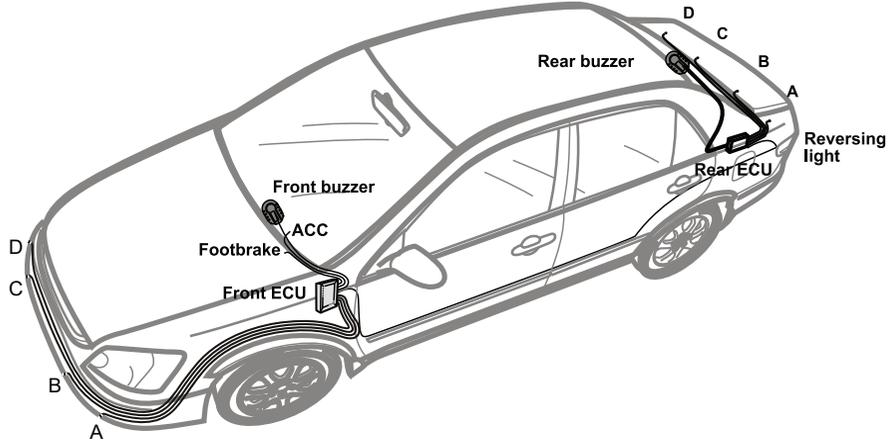
Clean the sensors with a cloth or low-pressure spray when the sensors are covered by dirt.

Installation Manual

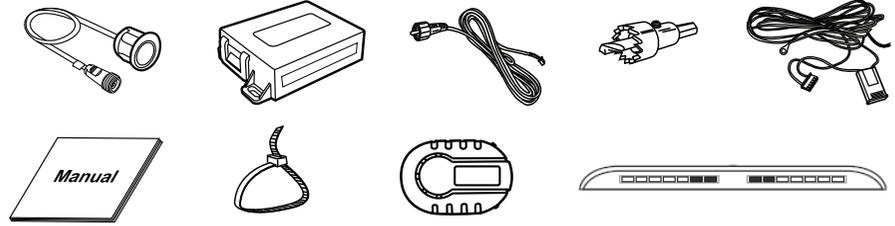
While it is possible to install this product yourself with some intermediate experience, we recommend that you read the installation instructions first and seek professional installation if you are unsure.

We highly recommend that you have this product professionally installed to ensure that it will perform and function as it has been manufactured and designed to.

Brief Installation Diagram



Includes

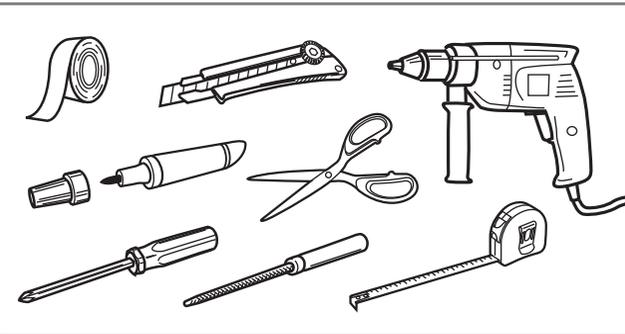


*When you purchase PTS411

*When you purchase PTS411-M6

The above graphics are for reference only.

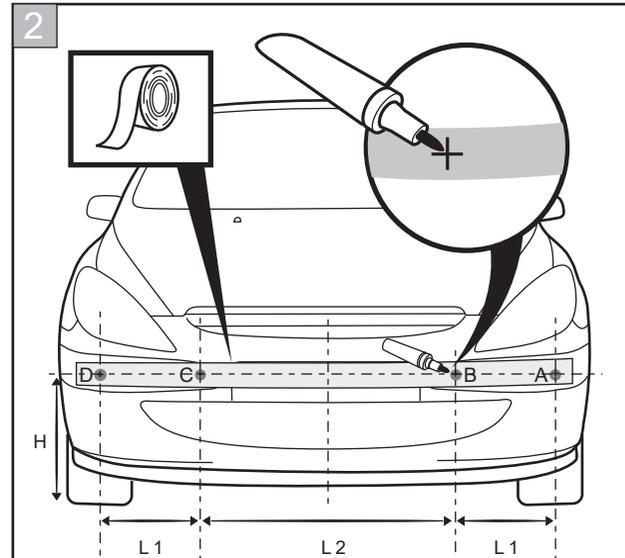
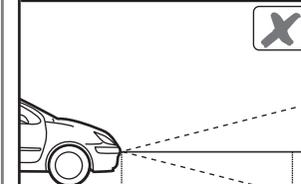
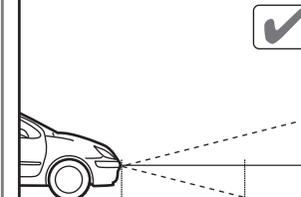
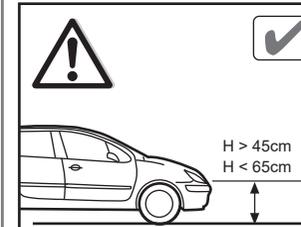
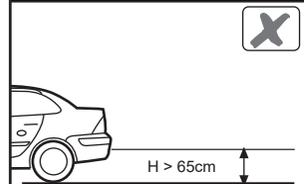
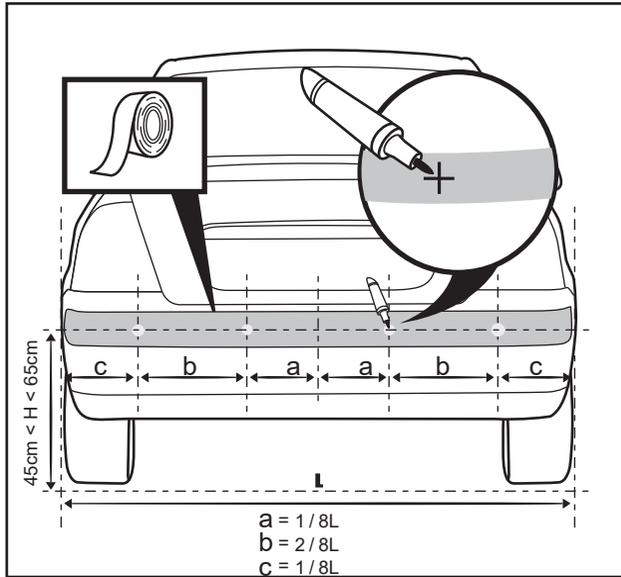
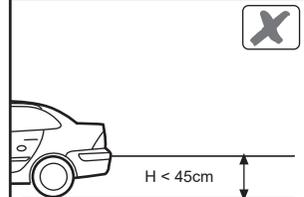
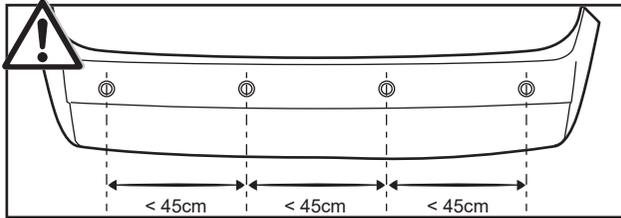
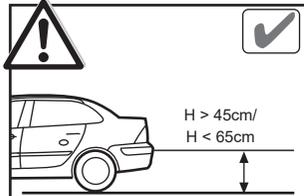
Installation tools



60' - 80'

Sensor Installation

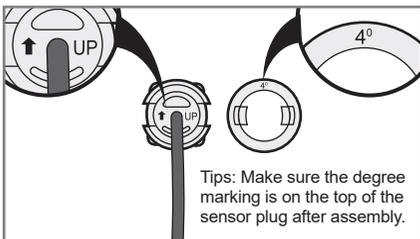
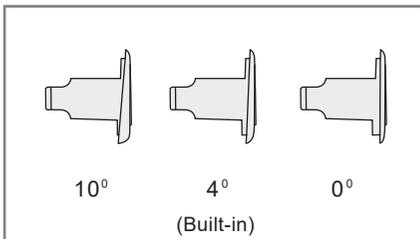
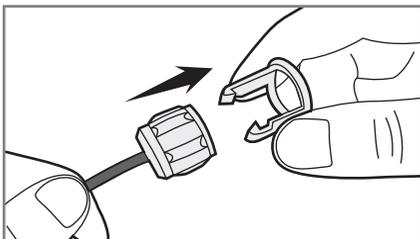
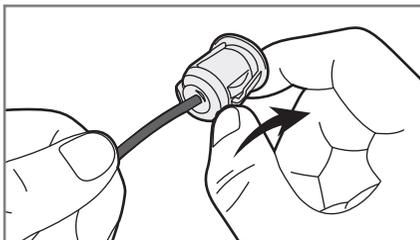
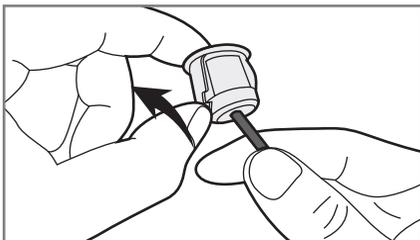
1 The sensor head angle can be changed to compensate for angled bumpers. See the instructions overleaf.



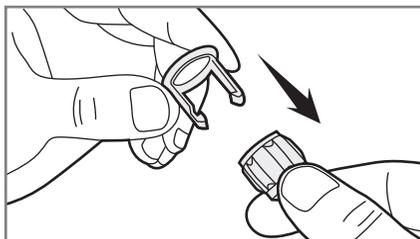
- Notes:
1. For a 2-sensor front sensor system it is recommended to install 2 sensors in position D&A for the best performance.
 2. On some vehicles, due to the number plates location or bumper design, the distance between the centre of two sensors (L2) will be greater, i.e. $L2 > 60\text{cm}$. The kit will still function, however the detection of narrow objects i.e. posts will be reduced.

3

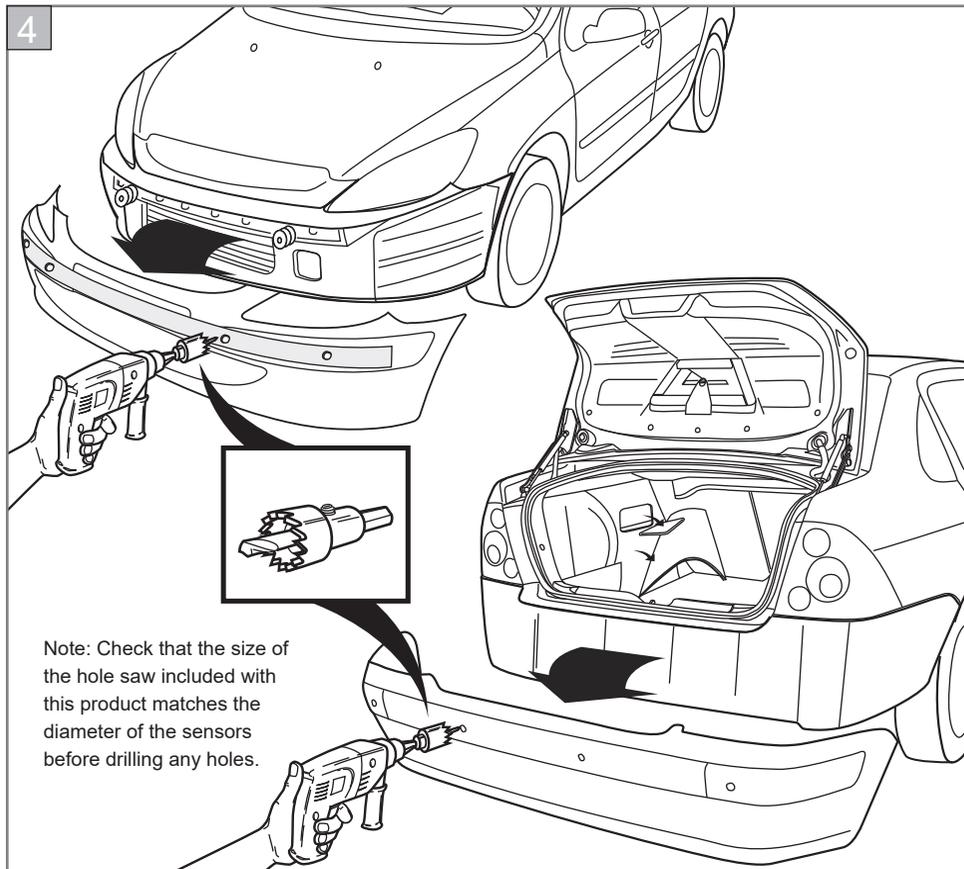
Change of sensor cover.



Tips: Make sure the degree marking is on the top of the sensor plug after assembly.

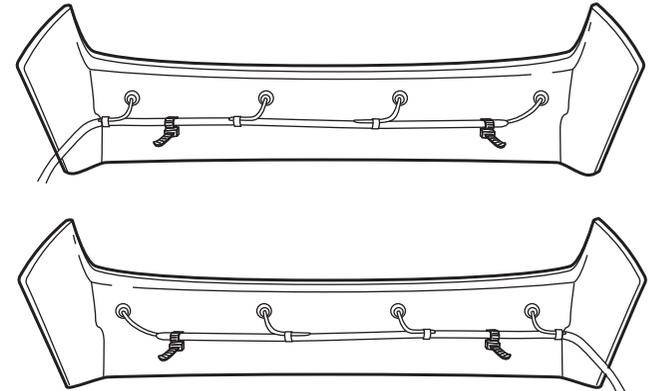
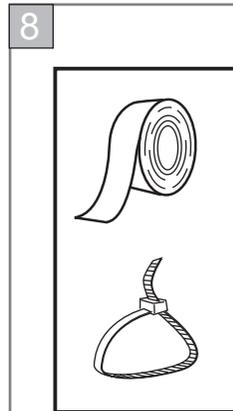
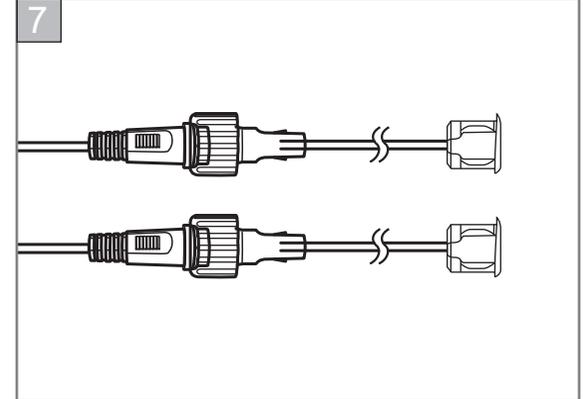
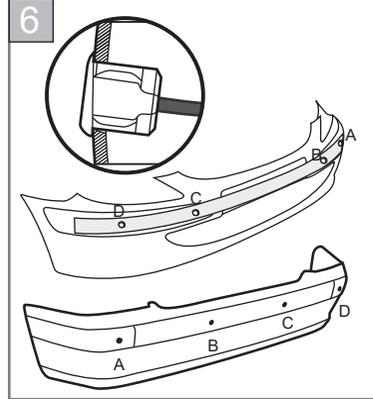
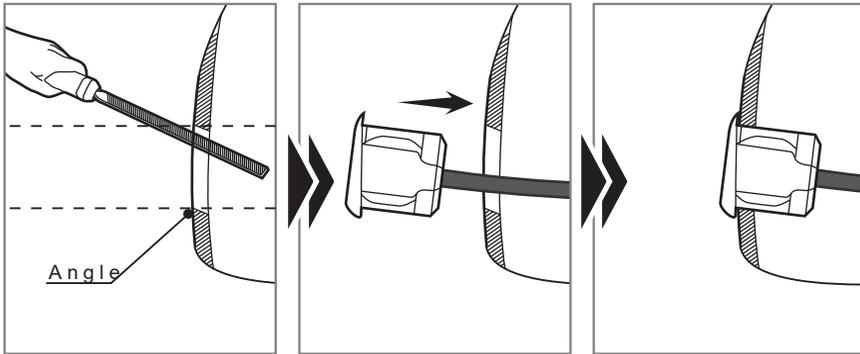
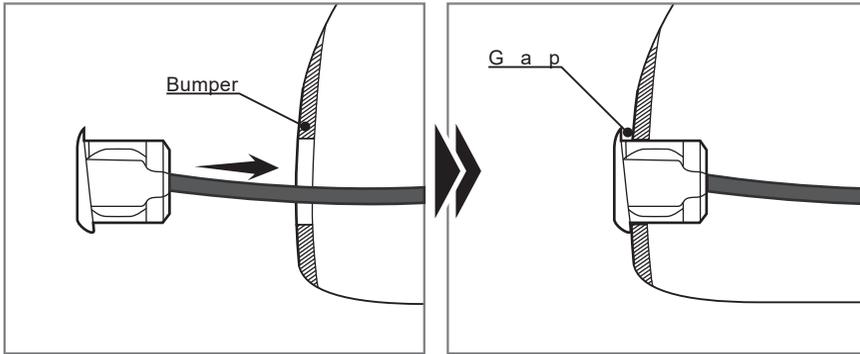


4

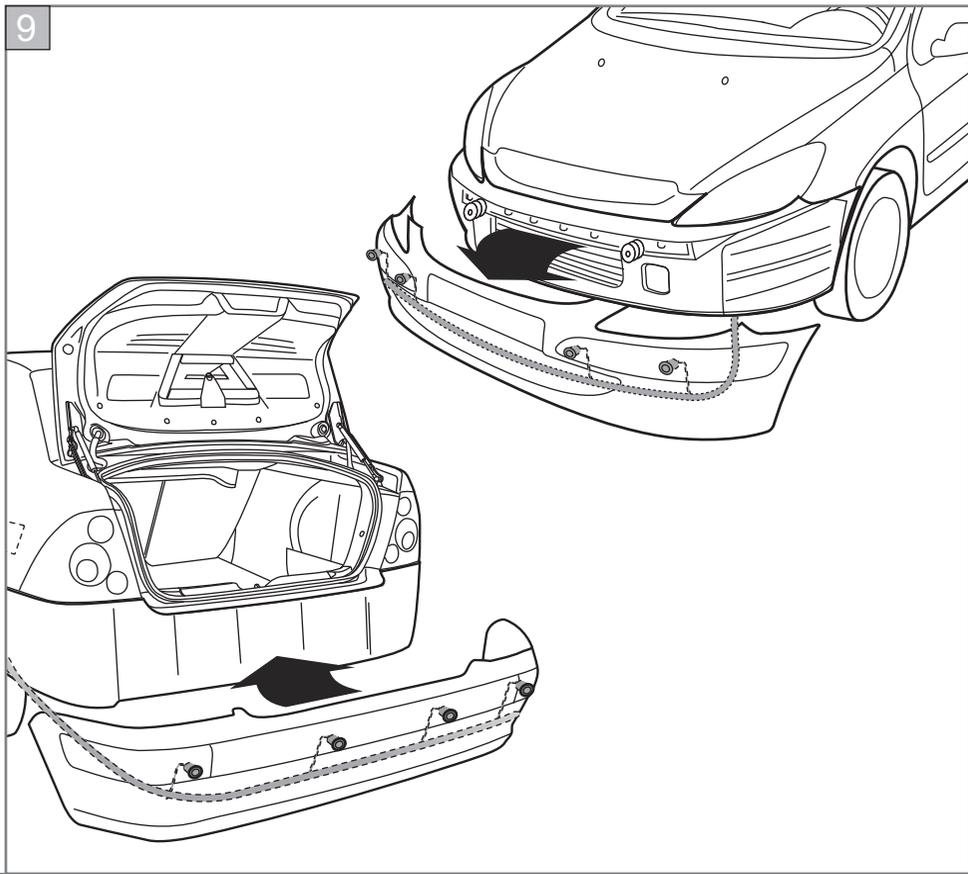


Note: Check that the size of the hole saw included with this product matches the diameter of the sensors before drilling any holes.

5 Hint: If a gap exists between your bumper and 10° sensor cover after installation, adjust the angle of the hole shown as below.



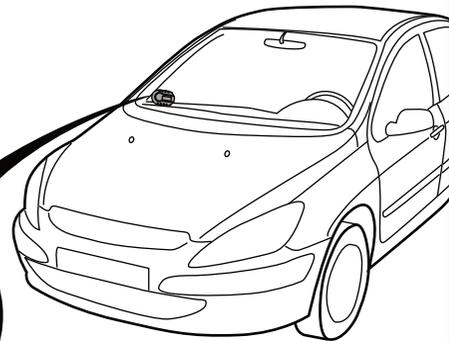
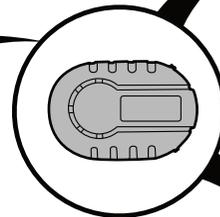
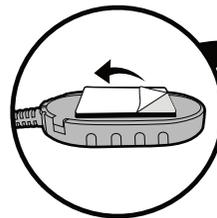
9



PTS411 Installation

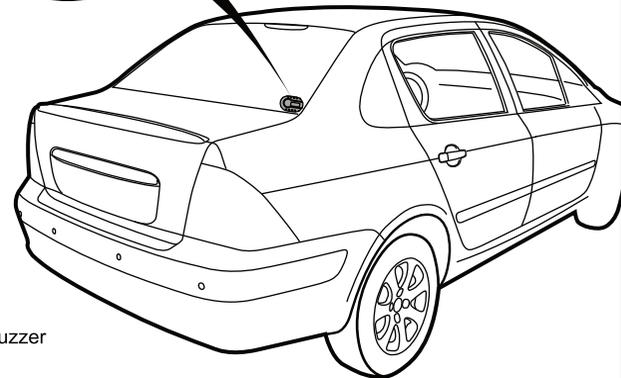
Front buzzer installation

A



Rear buzzer installation

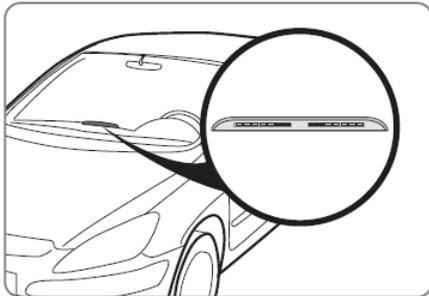
B



The above are the recommended buzzer installation locations.

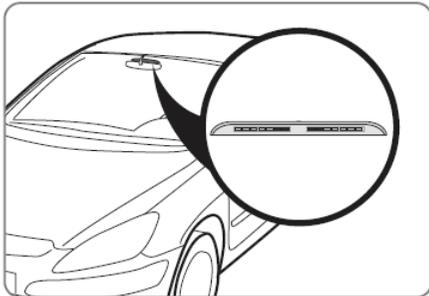
PTS411-M6 Installation

Installation mode 1



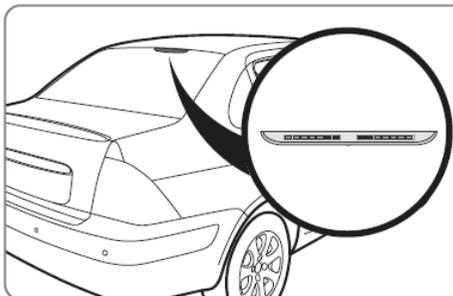
Tear off sticker and fix the display on the dashboard firmly for the driver to easily see.

Installation mode 2



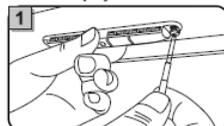
Tear off sticker and fix the display on the top of the rear mirror.

Installation mode 3

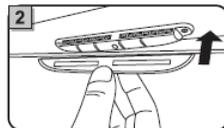


Tear off sticker and fix the display on the roof of the rear windshield.

Mode 3 display installation

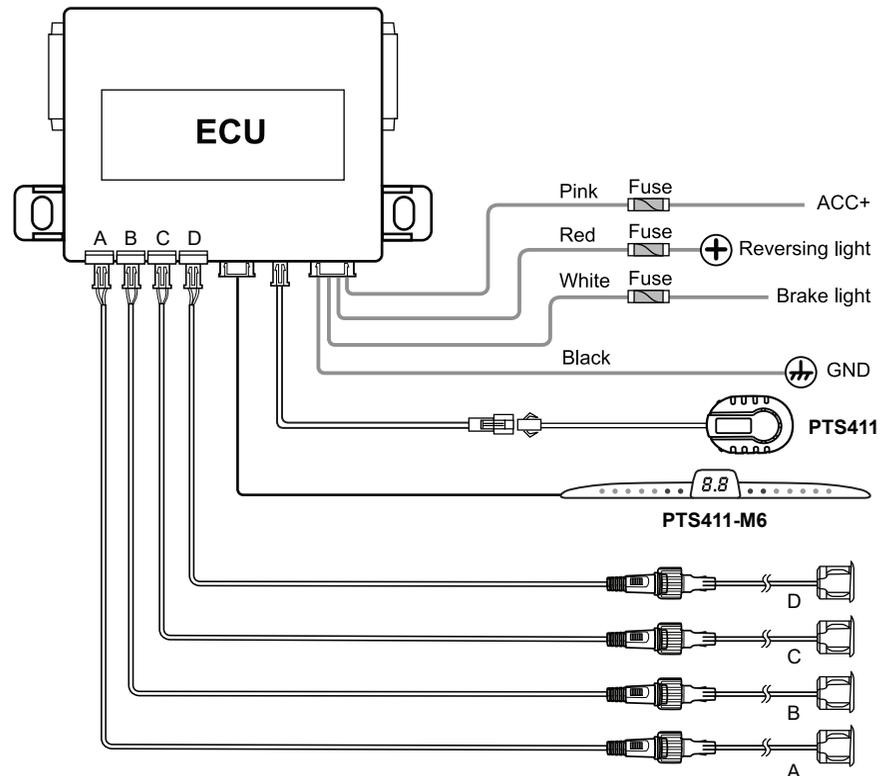


Screw the display on the rear roof of the windshield.



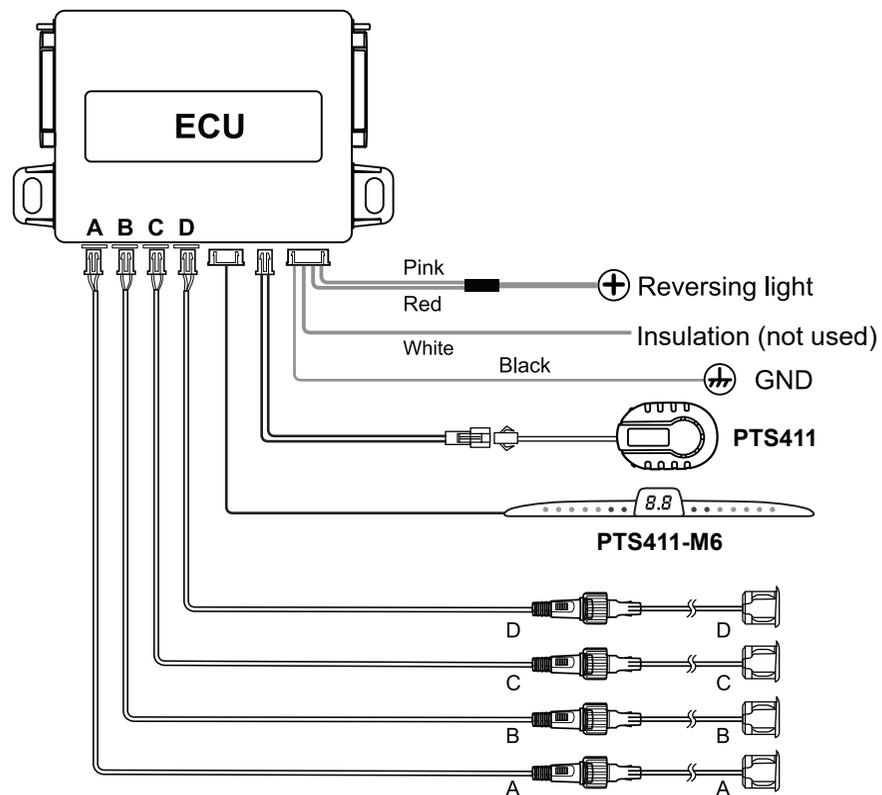
Clip the cover on.

Wiring diagram (Front ECU)



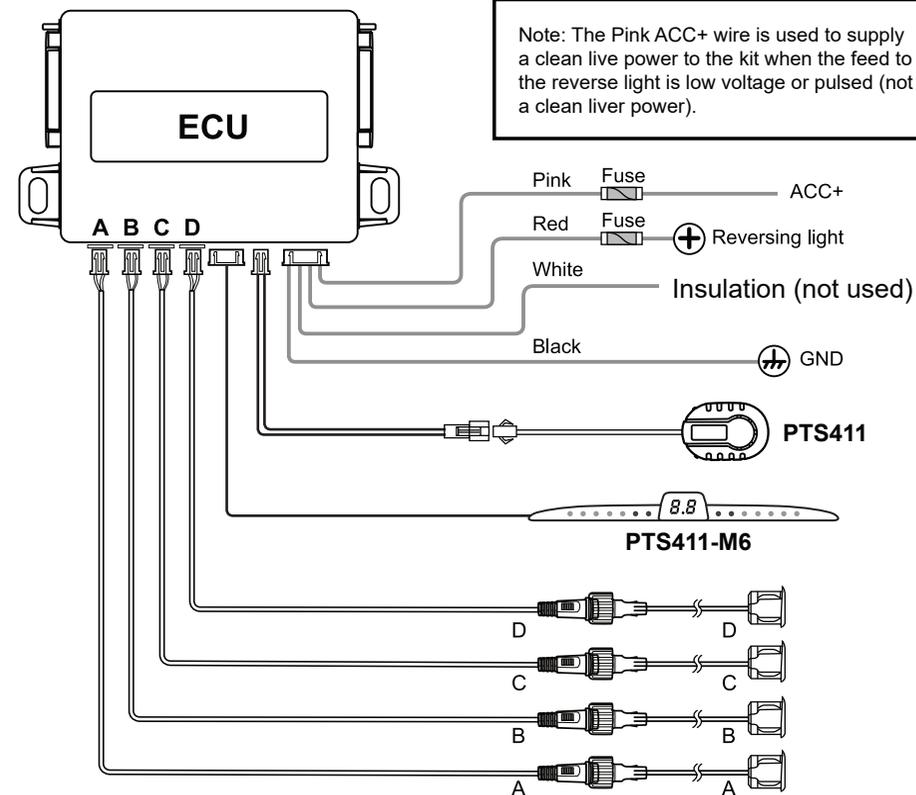
Note: Connect A&D or B&C sensors to use as Front 2 sensor system

Wiring diagram (Rear ECU) 1



Note: Connect A&D or B&C sensors to use as rear 2 sensor system

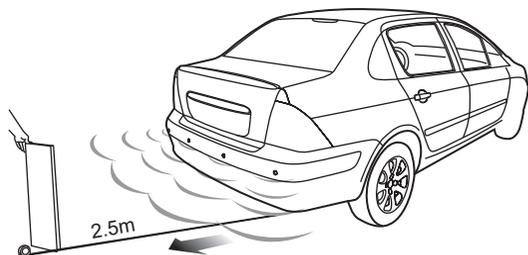
Wiring diagram (Rear ECU) 2



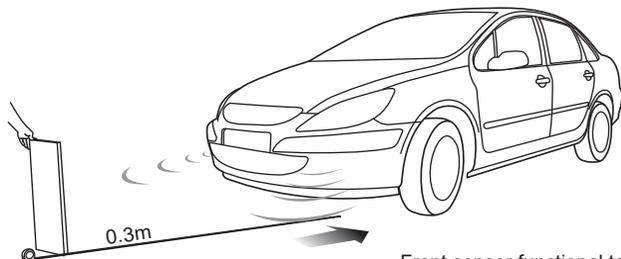
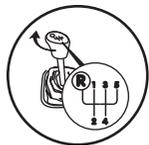
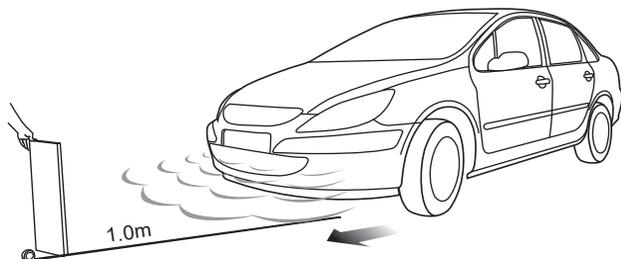
Note: Connect A&D or B&C sensors to use as rear 2 sensor system

Functional Test

Functional testing is performed by holding a wooden board (0.3 x1.0m) standing at the front or rear of the car, and drive the car forward and backward to test each function respectively as shown in this manual.



Rear sensor functional test



Front sensor functional test

Troubleshooting

1. After installation, the buzzer doesn't work.

- Make sure the wires are connected properly
- Make sure the vehicle has ACCESSORIES powered ON
- Make sure reverse gear is selected (the reversing light should be lighted on)

2. Damaged sensor detected

- Make sure ALL sensors are plugged into the ECU correctly and tightly
- Make sure no snow or dirt is covering the sensor
- Please check if the sensor is damaged

3. False alarm

- Make sure ALL sensors are plugged tightly into the ECU in the correct position
- Please check if any of sensors are "grounding"
- Please check if the rubber ring of the sensor has come loose (if sensor comes with rubber ring)

4. Buzzer alarm sound is too low or too high

- Press volume button to adjust the volume to a suitable level.

5. Learning function is invalid

- Sensor(s) is/are damaged
- Make sure ALL sensors are plugged into the ECU correctly and tightly

6. If the problem persists:

- For end users: Please contact your nearest dealer or customer service center
- For installers/dealers:
 - a) Test the sensors with a certified ECU by performing a functional test.
 - b) Replace another ECU and retest the sensors. Plug the certified sensors into the ECU and perform a functional test again

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Our goods come with guarantees that cannot be excluded under the Australian & New Zealand Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is provided in addition to your rights under the Australian & New Zealand Consumer Law.

Directed Electronics Australia Pty Ltd (Directed Electronics) warrants that this product is free from defects in material and workmanship for a period of 12 months from the date of purchase or for the period stated on the packaging. This warranty is only valid where you have used the product in accordance with any recommendations or instructions provided by Directed Electronics.

This warranty excludes defects resulting from alterations of the product, accident, misuse, abuse or neglect.

In order to claim the warranty, you must return the product to the retailer from which it was purchased or if that retailer is part of a National network, a store within that chain, along with satisfactory proof of purchase. The retailer will then return the goods to Directed Electronics. Directed Electronics will repair, replace or refurbish the product at its discretion. The retailer will contact you when the product is ready for collection. All costs involved in claiming this warranty, including the cost of the retailer sending the product to Directed Electronics, will be borne by you.

Directed Electronics Address: 115-119 Link Road Melbourne Airport, 3045 Victoria. Australia

Ph: +61 03 8331 4800 Email: service@parkmate.com.au

To view the complete Parkmate range or for details on how to contact us, please visit our website at www.parkmate.com.au | www.parkmatehd.co.nz

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