BRITPART

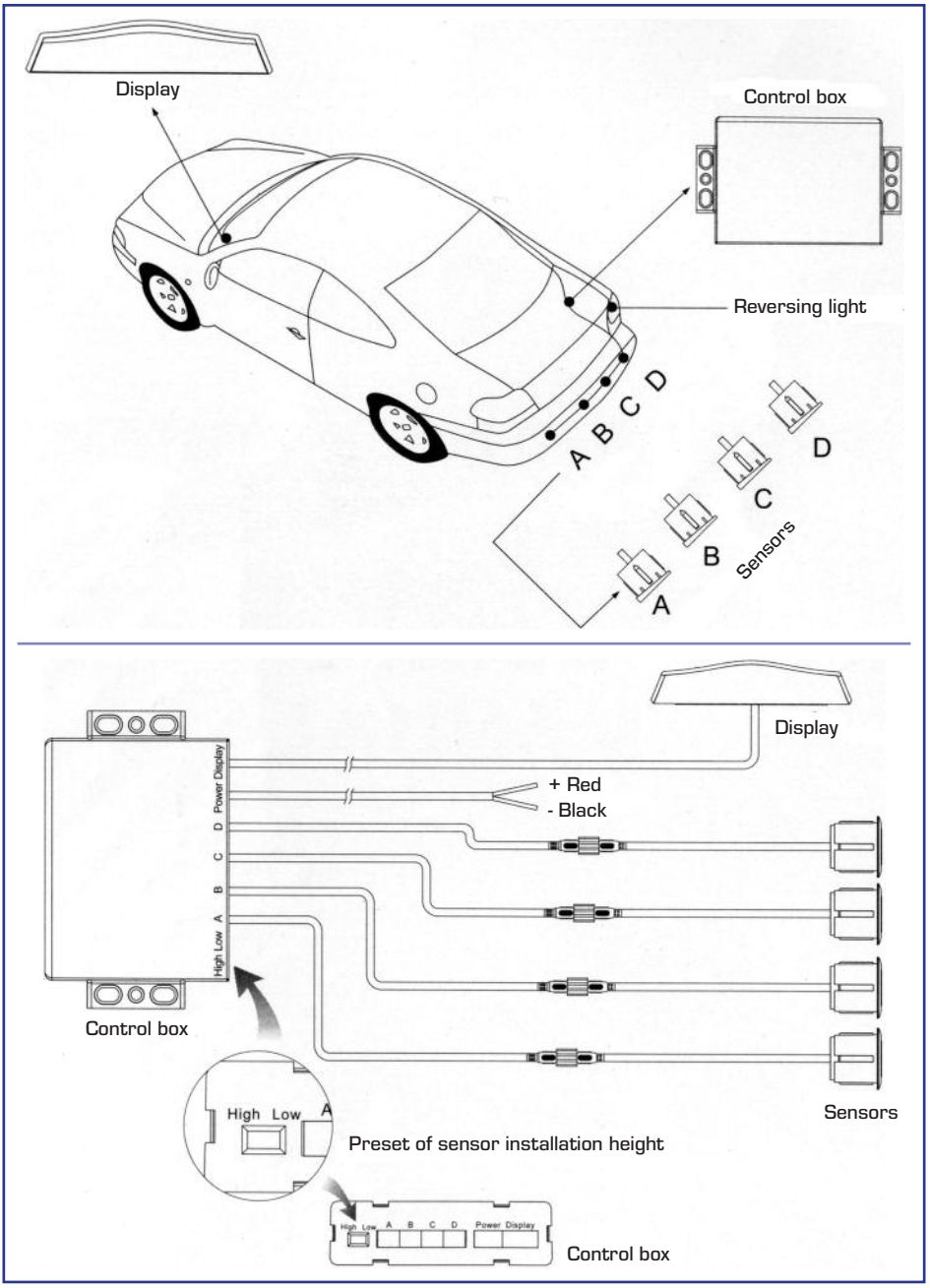
The quality parts for Land Rovers

INSTRUCTION MANUAL

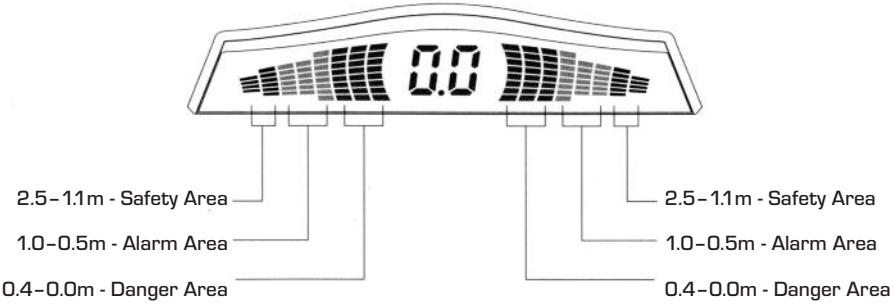
PARKING SENSOR

quality parts from BRITPART

General Installation Diagram

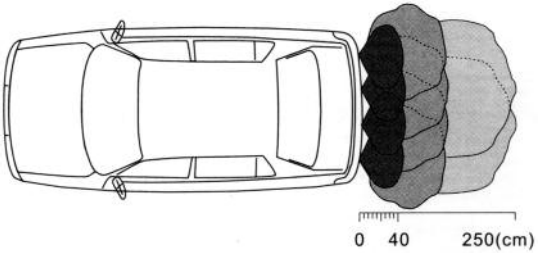


LED Digital Display

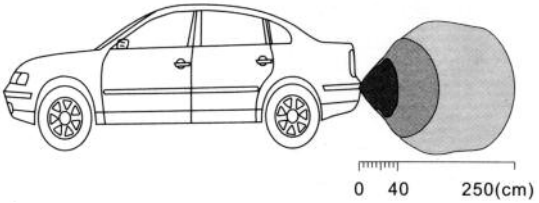


Detecting Range

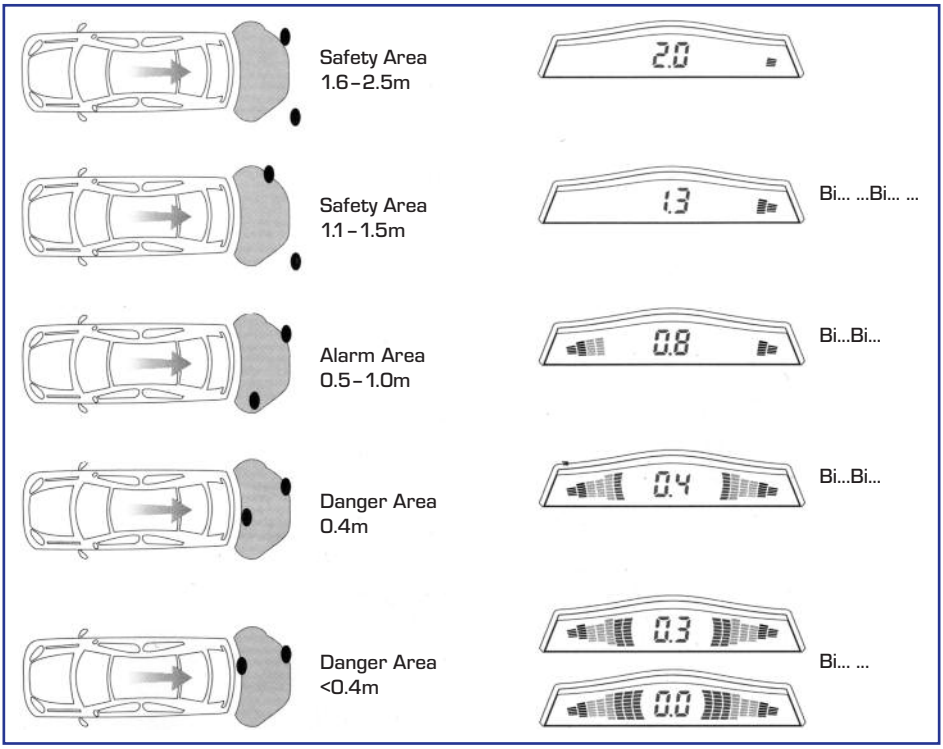
Top View



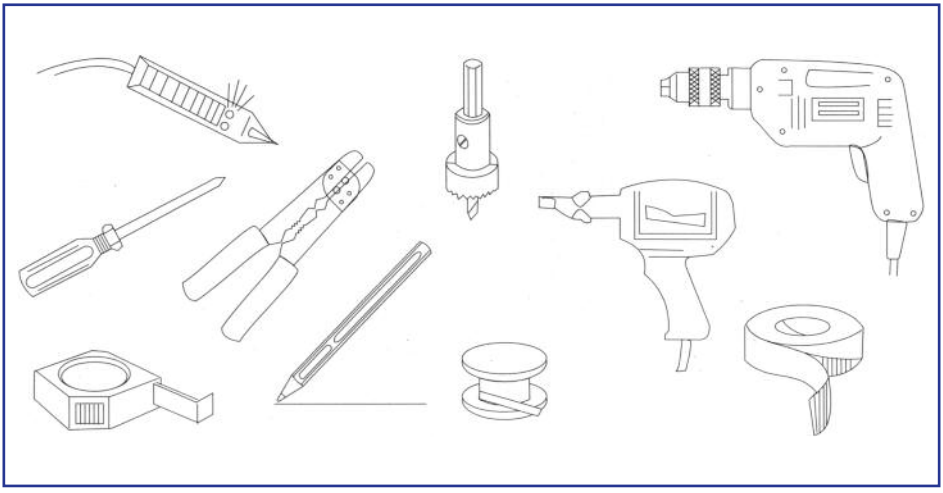
Side View



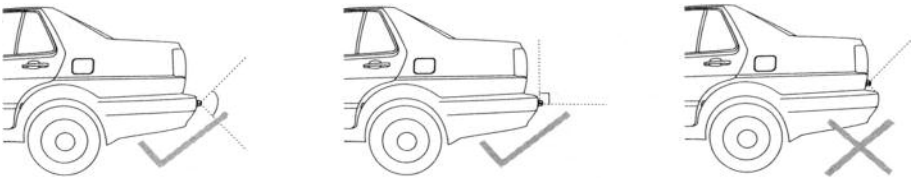
Display Status



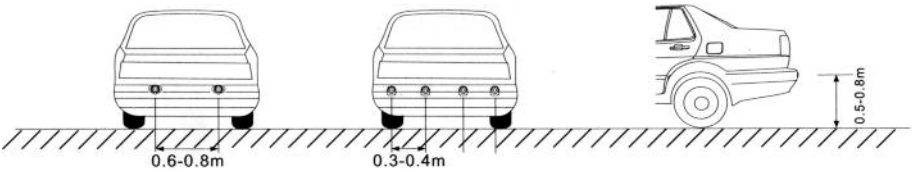
Installation Tools



Sensor Installation Diagram



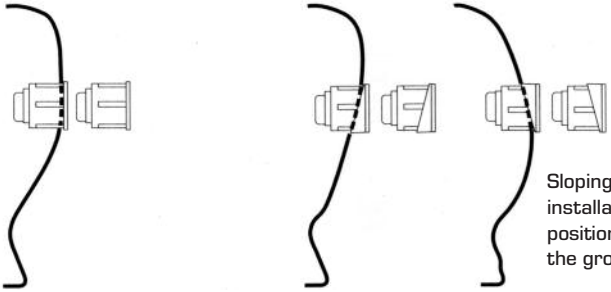
Be sure that no other part of the vehicle falls into the detecting range of the sensors.



The best position for 2 sensors.

The best position for 4 sensors.

Pay attention to the direction of the sensors.

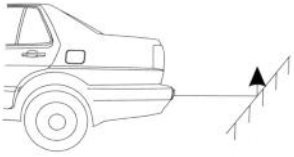


Vertical installation position to the ground.

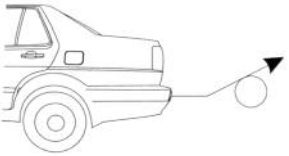
Sloping installation position to the ground.

Sensor Installation Diagram - continued

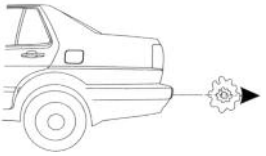
Objects hard to detect.



Smooth slope

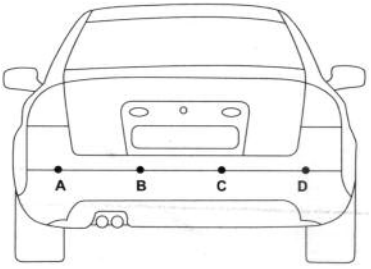


Smooth round objects

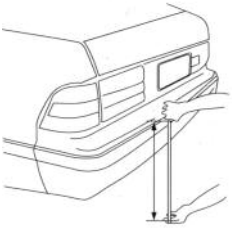


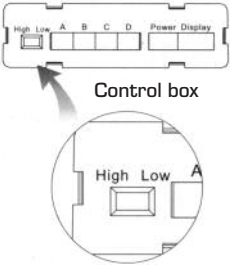
Objects absorbing the waves e.g. cotton

1. Advised position to install the sensors

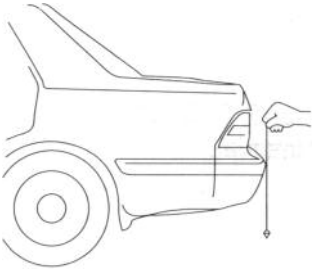


(A) 4 drilled holes (A,B,C,D) should be on the same line.



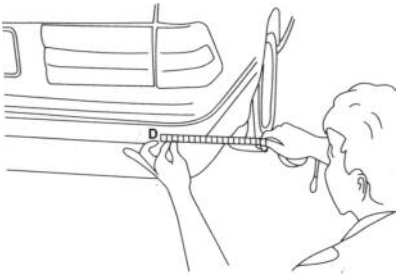


(B) Preset of sensor installation height, 0.45–0.8m vertically high to the ground.
High - 0.5–0.8m
Low - 0.45–0.5m

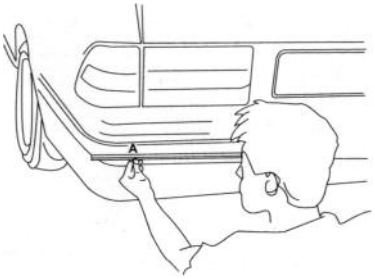


(C) A vertical and tidy surface is preferred.

2. Select drilling positions for sensors A & D



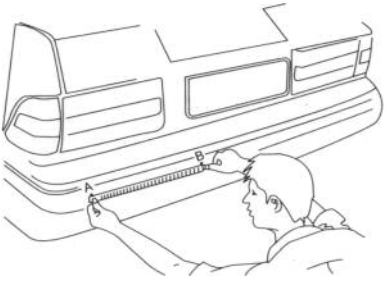
(A) Choose a suitable drilling position for A & D sensors with relevant mark.



(B) To perform the best detecting angle, select the position for A & D sensor at least 8–13cm away from the side, 11cm is the ideal distance.

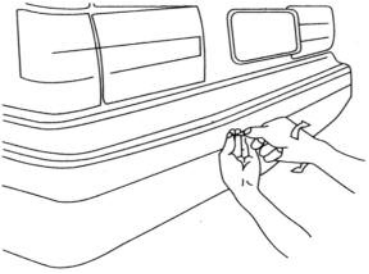
3. Select drilling positions for sensors B & C

(A) Measure the distance between sensor A and D - get the result 'L'.

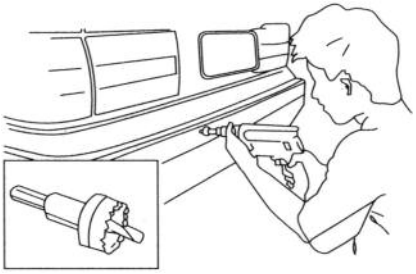


(B) Mark sensor B & C for every 1/3 'L' interval.

4. Drilling

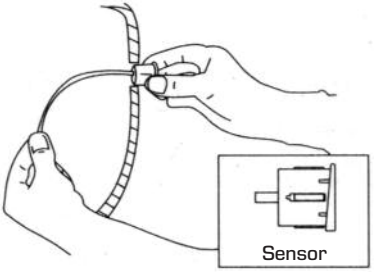


(A) Drill with a small awl to locate.

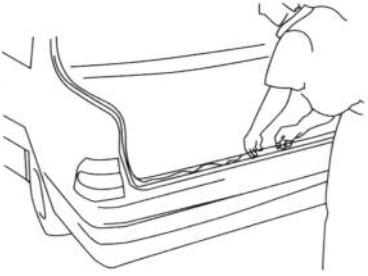


(B) Drill with the original drill.

5. Sensor installation

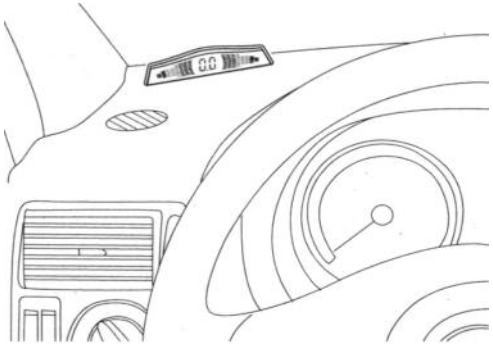


(A) Insert the sensors into the holes one by one and then tighten them.



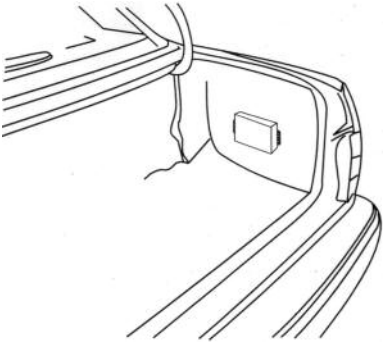
(B) Hide the wires.

6. Display installation



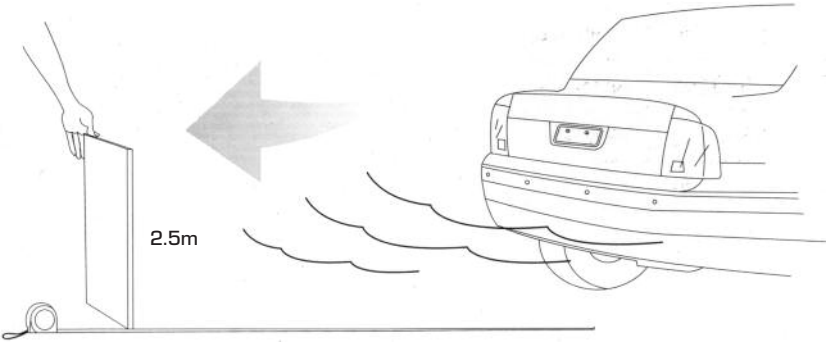
The display should be installed in a clean place where it can be easily seen.

7. Control box installation



Locate the control box in the boot, keep it safe, cool, dry and away from any shake and interference.

8. Sensor detecting



Main Features

The Britpart Parking Sensor System consists of ultrasonic sensors, digital control box and LED display. This system detects the distance between the vehicle and rear obstruction by ultrasonic sensors installed at the rear bumper of the vehicle.

The distance will be displayed in an innovative mode with the special designed LED, numeric display and step-up sounds, which will be changed according to the actual positions of detected obstruction so that the driver can judge the distance and avoid an accident.

- Digital LED display
- Direction indicator of left, middle & right
- "BiBi" alarm sound
- Hidden installation

Technical Specification

- Rated Voltage DC 12V
- Operating Voltage DC 10 16V
- Operating Current 30-280mA
- Detecting Distance 0.2 1.5m
- Ultrasonic Frequency 40KHz
- Working Temperature -30 +70ºC
- Display Size 79 x 31 x 18mm

Alarm Mode

Stage	Distance	Awareness	Alarm Sound	Digital Display	Bars
1	2.5–1.6m	Safety Area	Silence	2.5–1.6	1 Green
2	1.5–1.1m	Safety Area	Bi.....Bi.....	1.5–1.1	2 Green
3	1.0–0.9m	Alarm Area	Bi...Bi...	1.0–0.9	2 Green + 1 Yellow
4	0.8–0.7m	Alarm Area	Bi...Bi...	0.8–0.7	2 Green + 2 Yellow
5	0.6–0.5m	Alarm Area	Bi...Bi...	0.6–0.5	2 Green + 3 Yellow
6	0.4m	Danger Area	Bi...Bi...	0.4	2 Green + 3 Yellow + 1 Red
7	0.3m	Danger Area	Bi.....	0.3	2 Green + 3 Yellow + 2 Red
8	<0.3m	Danger Area	Bi.....	0.0	2 Green + 3 Yellow + 3 Red

Installation Steps

1. Choose the right installation position for the sensors.
2. Select drilling positions for sensors A & D.
3. Select drilling positions for sensors B & C.
4. Locate the position and drill.
5. Install the sensors and hide wires.
6. Install the digital display.
7. Install the control box.
8. Connect the whole system according to the General Installation Diagram.

Installation and Test

1. Adjust the directions of the sensors and axial orientation, neaten the wiring after installing the sensors.
2. Connect the power supply of control box to the reversing light.
3. Connect the data wires between the control box and display.
4. When the car is started and in reverse gear, the buzzer sounds "BiBi" to enter into working status, 1second later, it turns to standby status. Insert one of the sensors into corresponding interface in control box. A person should normally be detected if they stand within 1.0m of the sensor. Pull out the sensor and check other sensors in the same method. Insert all the sensors in corresponding interfaces after testing.

Testing

(A) After connecting a sensor with the control box, if the buzzer sounds"Bi ", please check whether there is any obstacle around it, or the sensor is fixed too tight or close to interference sources such as exhaust pipe, wires etc.

(B) If the display shows any distance figure with no obstacle around the sensor, the sensor may be detecting the ground or some outshoots of the vehicle, such as registration mark etc. Please check the direction of sensor and axes.

(C) If the system still does not work properly after the above mentioned handling, the sensor(s) can be deemed defective, or unmatched with the control box. The system should be replaced.

Notes

1. The car must be turned off during the installation of the parking sensor system.
2. Its performance may be affected in following situation: heavy rain, gravel roads, bumpy roads sloping roads and vegetation, very cold, hot or moist weather, or the sensor is covered by snow, ice etc.
3. Switches among ultrasonic, electric wave, DC and AC and those among 24 and 12 voltages may also effects its performance.
4. The sensors should be installed appropriate loose or tight.
5. Its performance will be effected if the sensors are fixed onto a metallic bumper.
6. Avoid installing the digital control box in places of interference, such as near the exhaust pipe or nearby wiring.
7. Test the system to make sure it works normally before using.
8. This system is a reversing aid and Britpart will take no responsibility for any accidents caused after the kit is installed.

CE

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