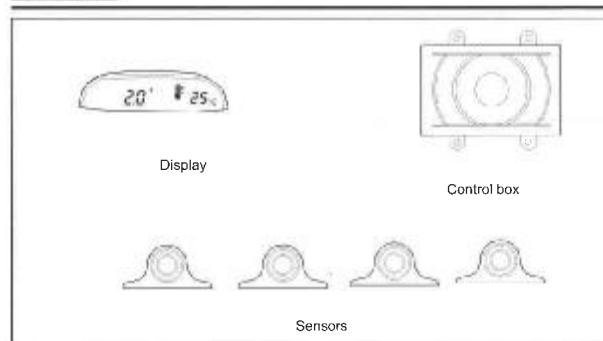




PS114 Manual

PARTS



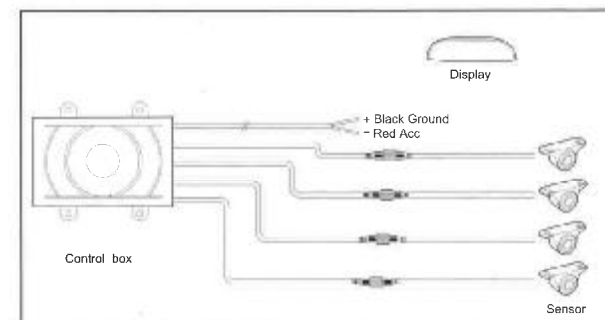
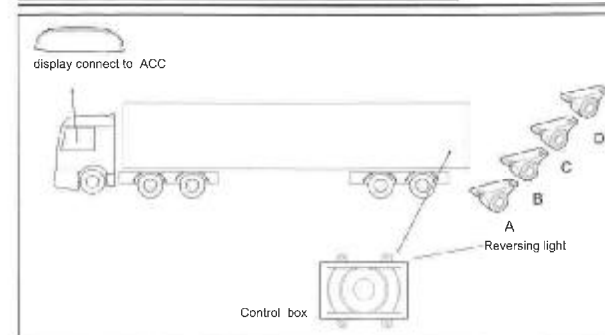
Key Features

- Digital LED display
- Left, middle, right obstacle detecting
- Simulative bar showing real distance
- "BIB" alarm sound
- Wireless signal transmitting and receiving
- Temperature displaying

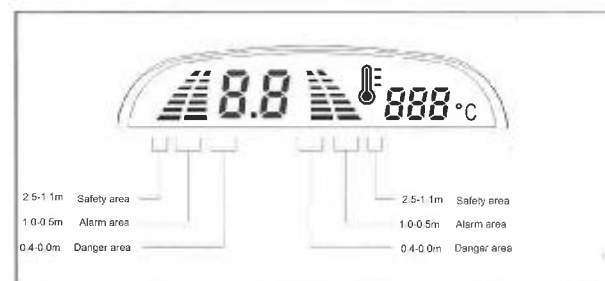
Technical Parameter

- Rated voltage: 24V DC
- Working Voltage: 9 -32V DC
- Working Current: 20-150mA(connect to 12V DC)
- Detecting distance: 0.2- 2.5m
- Ultrasonic wave frequency: 40KHz
- Working Temperature: -30 - +70 °C
- Display size: 93.2*49*22.3mm

General Installation Diagram



Digital LED display

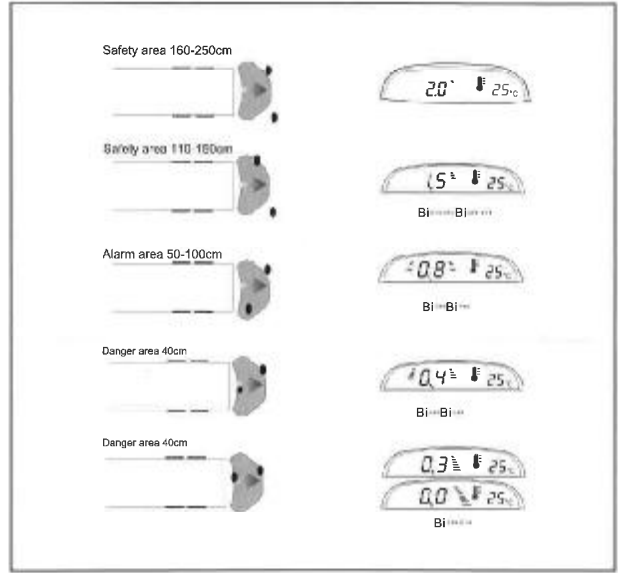


Detecting distance

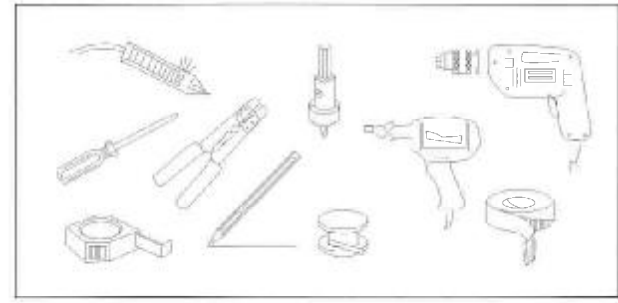




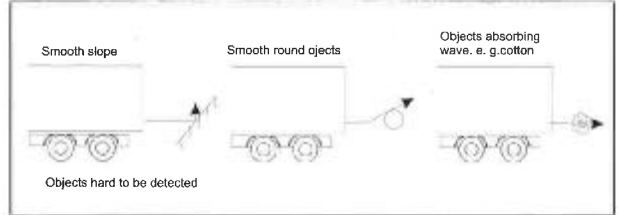
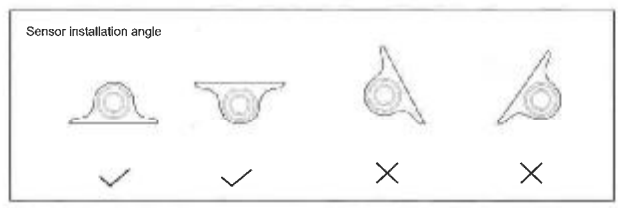
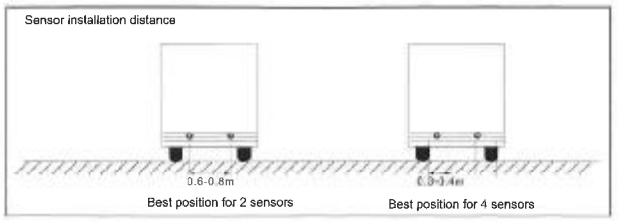
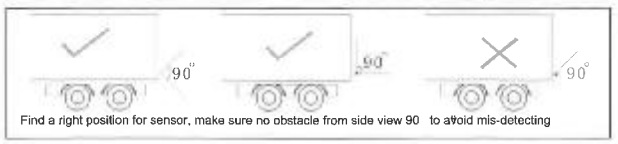
Displaying Status



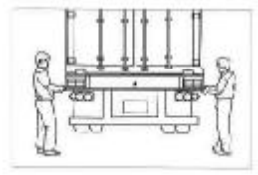
INSTALLATION TOOLS



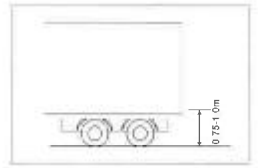
Sensor Installation Diagram



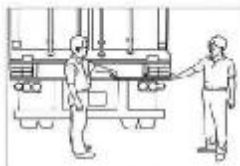
Advised Position for Sensor



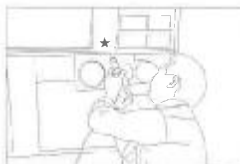
1. 4 drilled holes (A, B, C, D) should be under the same line



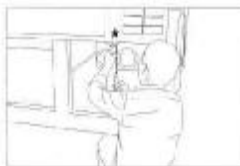
2. 0.75-1.0m vertical height to the ground is suggested



3. To perform the best detecting angle, select the position for A & D sensor with 15-30cm away from the left side.

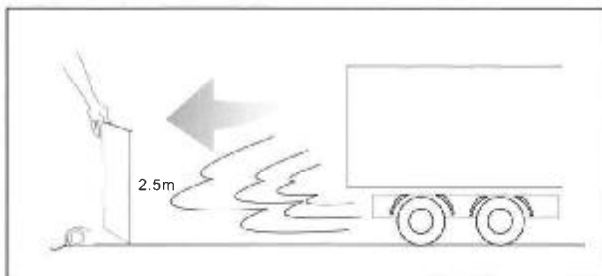


4. Find the right position for sensor and drill a hole to tighten



5. Fix sensors with screw

Sensor Detecting



Display Installation

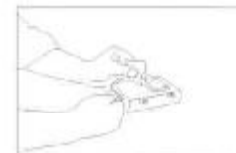


Put the control box on the dashboard

Control Box Installation



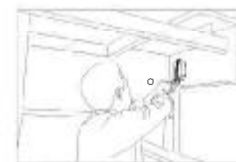
1. Find a position for control box and then drill a hole.



2. Put the 3M sticker at the back of the control box



3. Try to put the antenna outside for better signal transmitting and receiving



4. Put the control box at the chosen position, fix with screws



5. Connect the sensors to the control box

Wiring Diagram



1. Connect power wire of control box to reversing light



2. Connect power wire of display to Acc and test the system. Put the 3M sticker at the bottom of the display.

Alarm Mode

stage	detecting distance	status	alarm sound	distance showing	simulative bar
1	2.5~1.6m	safety area	Bi-----Bi-----	2.5~1.6	1 green
2	1.5~1.1m	safety area	Bi-----Bi-----	1.5~1.1	3 green
3	1.0~0.9m	alarming area	Bi---Bi---	1.0~0.9	3 green + 2 yellow
4	0.8~0.7m	alarming area	Bi---Bi---	0.8~0.7	3 green + 2 yellow
5	0.6~0.5m	alarming area	Bi---Bi---	0.6~0.5	3 green + 2 yellow
6	0.4m	danger area	Bi---Bi---	0.4	3 green + 2 yellow
7	0.3m	danger area	Bi-----	0.3	3 green + 2 yellow + 1 red
8	<0.3m	danger area	Bi-----	0.0	3 green + 2 yellow + 2 red

Installation Steps

1. Choose position for sensors
2. Select drilling position for sensor A & D
3. Select drilling position for sensor B & C
4. Locate the position and drill
5. Install the sensors and hide the wires
6. Install 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 sensors and axial orientation, neaten the wiring after installing the sensors.
2. Connect the wire of control box and reversing light according to Wiring Diagram.
3. Connect control box and display to the power, use the steel needle to press the ID button on the display, then the LED bar will shine for 2s. That means the ID is activated and the display start to work.

The ID learning function will be finished in 2 seconds, and then the display will begin to work. Connecting an ultrasonic sensor to corresponding port, the people stand within the distance of 1.0m in the front of ultrasonic sensor, it should be detected normally. Pulling out the ultrasonic sensor, to check the other ultrasonic sensors in the same way. After checking, connect all the ultrasonic sensors to corresponding ports.

Check: a, if one ultrasonic sensor insert into the control box, the buzzer send out the warning "Bi...", should check if there is obstacle in the front and side, or if the sensor is installed too tight, otherwise it's placed in the part which has strong vibration and big interference (such as appliance wiring).

b, if the warning is only sent out in one area (such as "Bi..Bi.."), but there is no obvious obstacle in the front and side, that would be detected to the ground, please check if the direction of ultrasonic sensor and axial is right. The horizontal shaft of ultrasonic sensor should be up warp, maybe defect the outshoot in the back of the car. (such as the license plate).

c. After above check, if there is problem yet, it can be judged that the sensor is broken or it does not match the control box, need to replace a whole set.

Note: a. the ultrasonic sensor with the control box and the sensor with the sensor hole are all corresponding in the system.

b. the design in this system is: when the distance is shorter than 0.3m, it will show "0.0", will ask the driver to stop the car instantly as the warning, but not show the distance of 0.2-0.1.

Notes

1. If this product is used for vehicle that longer than 6m, please make the receiving antenna on receiver back upright to better its receiving effect.
2. Its performance may be affected in following situation: heavy rain, gravel road, bumpy road sloping road and bush, very cold, hot or moist weather, or the sensor is covered by ice, snow or mud.
3. Switches among ultrasonic, electric wave, DC and AC and those among 24V, 12V voltages may also effect its performance.
4. The sensors should be installed appropriate loose or tight.
5. Avoid installing the digital control box in places of great interference, such as vent-pipe, wiring nearby.
6. Test the system to make sure it works normally before using.
7. This system is a reversing aid and the manufacturer will take no responsibility for any accident after the kit is installed.



Declaration of conformity
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

E8

CUSTOMER SATISFACTION

Warranty applies to all Park safe products. All Parking Systems have 3 years warranty. The warranty is not transferable and only applies to the original purchaser. Should the product be found to be defective within the warranty period, the product or part will be replaced without charge. To obtain repairs or replacement under the provisions of this warranty the product should be returned prepaid with proof of purchase to the address above with a completed copy of our warranty claim form including **Copy of the annual inspection stamps.** This warranty does not cover the removal or reinstallation costs nor does it cover damage through alteration, misuse, mishandling, neglect or accident. Any implied warranty is limited to the duration of this written warranty and Park safe shall not be liable for any loss or damage, direct or consequential, arising from the use or inability to use this product. No person or representative is authorised, to alter or amend this warranty either verbally or in writing. This warranty does not affect your statutory rights.

Warranty Registration

Purchase Date:	<input type="text"/>
Purchased From / Dealer Address:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Installers Name:	<input type="text"/>
Vehicle Make:	<input type="text"/>
Vehicle Reg:	<input type="text"/>
Model:	<input type="text"/>



SERVICE RECORD

Signed: _____ Date _____	
Signed: _____	Date _____

Parksafe Automotive, 27 Nottingham Road, Ripley Derbyshire, De5, 3AS
Tel: 44 01773 746591 Fax: 44 01773 743251
www.parksafeautomotive.co.uk