

USER'S MANUAL FOR FRONT PARKING ASSISTANCE SYSTEM

The System consists of 4 front and 4 rear sensors, a control box, a buzzer and a set of wiring harness. The front sensors will be activated when the brake is triggered. If the brake was pressed over 10s, the sensors will work 15s. If the brake was pressed less than 10s, the sensor will work 5s after the brake is released. The rear sensors will be triggered when the reverse gear is engaged. The system measures the distance to the closest obstacle and then the buzzer will emit a corresponding audible warning beep.

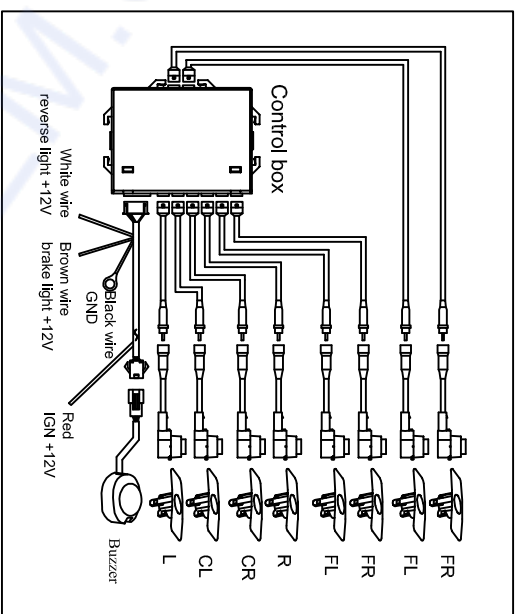
Function

1. Step up sound frequency: closer and faster
2. Adjustable sensitivity

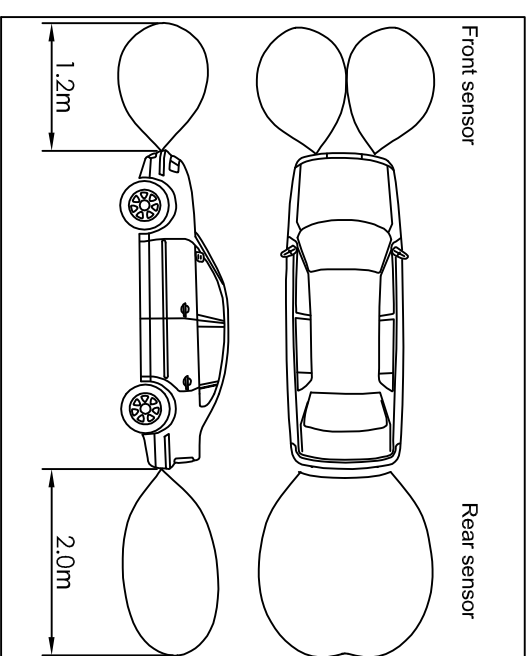
Specification

1. Operation voltage: DC10~16V
2. Operation Temp: -20~+70 ℃
3. Consumption: $\leq 4W$
4. Detection range: Front sensors: 0.3~1.2m
Rear sensors: middle :0.3m~2.0m
side: 0.3~1.5m

Wiring diagram



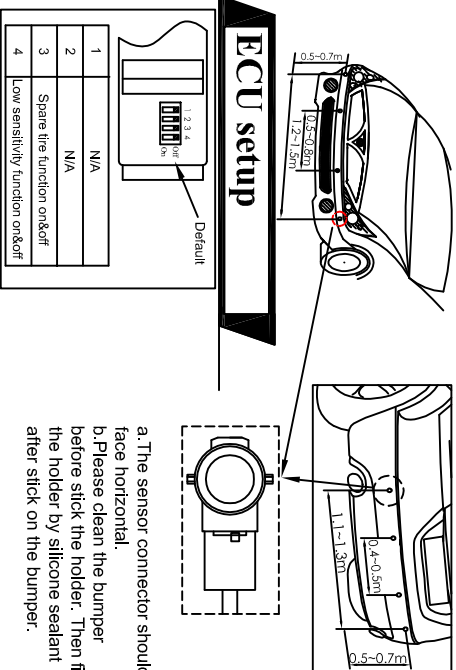
Detection area



Pay attention to assembling

1. This product can only be used on 12V automobile;
2. There are "FCL, FCR, FR, FL, L, CL, CR, R" labels on wire of each sensor, please plug the corresponding connector into the control box;
3. Please make sure that the wiring harness is fixed and far away from vent-pipe;
4. Sensors' installation position:
Four front sensors

Four rear sensors



ECU setup

1	N/A
2	N/A
3	Spare tire function on/off
4	Low sensitivity function on/off

Alarm mode

Front sensors

Distance	Alarm
1.2m~	no sound
1.2m~0.3m	step-up alarm BI---BI---BI frequency ↓ BIBIBI
0.3m~	constant alarm

Rear sensors

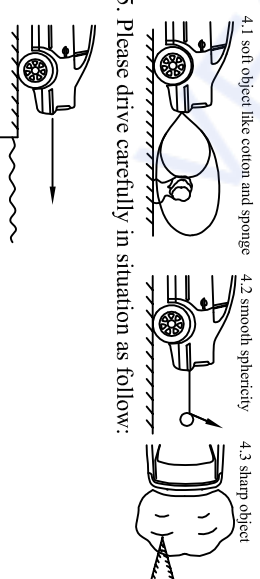
Distance	Alarm
2.0m~	no sound
0.3m~2.0m	step-up alarm BI---BI---BI frequency ↓ BIBIBI
~0.3m	constant alarm

Function test & Trouble shooting

1. If system give you false warning, maybe ground is detected. Please check if the sensor connector faces horizontal and the installation position is too closer to ground.
2. Please adjust the slide switch on the buzzer to change the volume. If the sound is abnormal, please check if there is obstacle on the hole.

Notices

1. Because of automobile inertia and other facts in practical situation, please reverse automobile $< 5km/hr$; when the display show distance $\leq 0.5m$, please stop the automobile;
2. Please clean the ice and mud if there's any on the surface of the sensor.
3. When running on large angle slope, grass land or gravel road, it is easy to give out fault warning;
4. Attention please that it is not easy to detect obstacle in situations as follow:



5. Please drive carefully in situation as follow:
6. Parking assistance system is only used as an auxiliary equipment, driver needs to take responsibility of driving safety by himself.