

USER'S MANUAL FOR FRONT PARKING ASSISTANCE SYSTEM (A44S28)

The System consists of 4 front and 4 rear sensors, a control box, a LED display 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

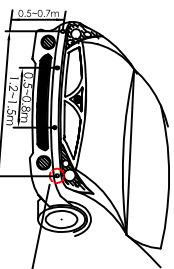
Specification

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

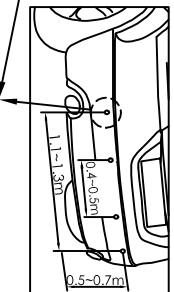
Pay attention to assembling

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;

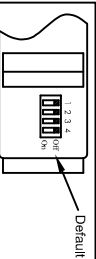
4. Sensors' installation position:
Four front sensors



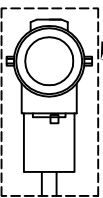
Four rear sensors



ECU setup

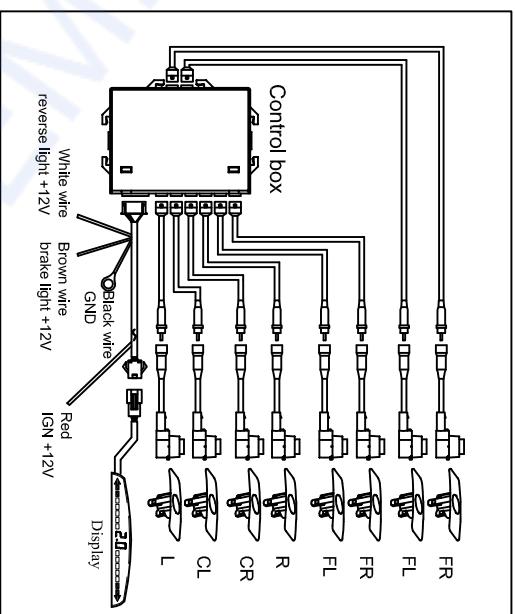


1	N/A
2	N/A
3	Spare tire function on/off
4	Low sensitivity function on/off



- a. The sensor connector should face horizontal.
- b. Please clean the bumper before stick the holder. Then fix the holder by silicone sealant after stick on the bumper.

Wiring diagram



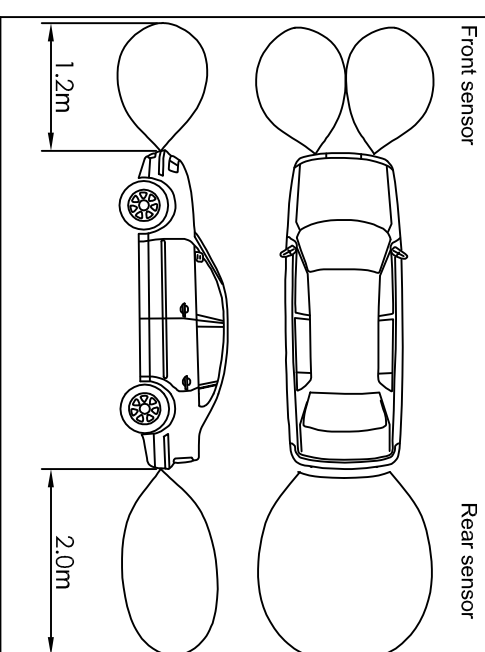
Display setting

Mode		Definition	Show	Note
Volume	High	2		(default)
	Low	1		Press the setting button, then the buzzer alarm once and show "2". If you want to adjust volume, please loose the button and press it again, the "0", "1" and "2" cycle. Then stop pressing, the display will memory and exit automatically.
Metric vs Imperial Display	Off	0		(default)
	The metric system	H1		Press the setting button, then the buzzer alarm once and show "H1". If you want to adjust the display mode, please loose the button and press it again, the "H0" and "H1" cycle. Then stop pressing, the display will memory and exit automatically.

Function test & Trouble shooting

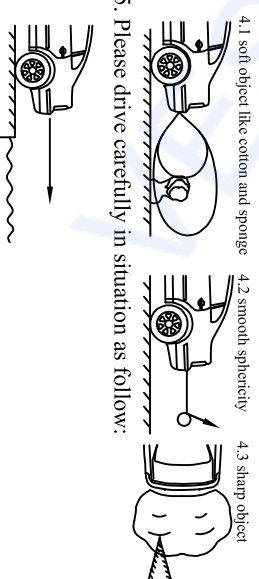
1. If system give you false warning, maybe ground is detected. Please check if the sensor connector faces horizontal and the installation position is too closer to ground.
2. Please adjust the slide switch on the buzzer to change the volume. If the sound is abnormal, please check if there is obstacle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

Detection area



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.