

SS-NP2



Rear EU Number Plate Sensor System

User Manual





SS-NP2
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Introduction

Congratulations on purchasing EchoMaster parking sensors. This ultrasonic detection system is designed to assist in the avoidance of obstacles while reversing.

Disclaimer:

EchoMaster® is strictly a driver assistance device, and should not be relied upon as a substitute for safe driving practices. Use common sense when parking and always follow recommended safe driving guidelines. To help prevent accidents, always use caution when parking, looking visually to ensure your path is clear. Keep speeds under three miles per hour. The owner shall not be entitled to recover from the Company, its successors or assignees, incidental and consequential damages, such as personal injury, loss of income, loss of time, loss of profits, loss of vehicle use or property damage. No employee, agent or representative of the Company or the Selling Retailer may modify, alter or extend this Warranty in any way. This Warranty gives you specific legal rights. You may also have other rights under this Warranty which may vary from state to state.

Note: Under no circumstances should you attempt to open the control box or any other component. Doing so will void all manufacturer's warranties.

Box Contents

- ▶ Number plate frame with 3 sensors
- ▶ Control Module
- ▶ Speaker
- ▶ Power Harness

Key Features

- ▶ Volume Control
- ▶ Sensitivity setting for mounting at various heights
- ▶ Self-learning sensors

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Fitting Instructions

Remove the number plate from the vehicle.

Drill 10mm hole for the grommet to allow cables to pass through.

Attach the number plate frame to the vehicle.

Note: When installing the frame, note the orientation sticker on the back of the frame.

Slide number plate into bottom of frame and secure with the 3 clips on top.

Connect the red lead to Reverse light (12V) and the black lead to Ground. Mount the speaker in the vehicle (clean mounting surface with alcohol swab) and connect to the control module.

Connect sensors to the control module and mount in vehicle.

To set the sensitivity according to the number plate height, use the 3-position switch on the control module.

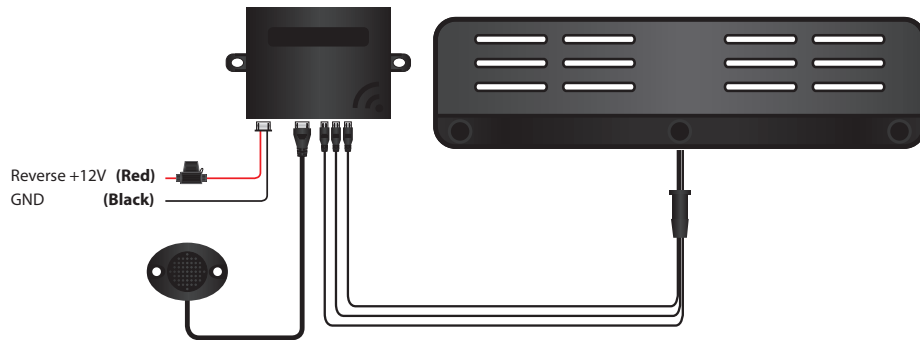
Switch Position	Height
1	35-40cm
2	40-60cm
3	60-80cm

Height is measured from the middle of the sensor to the ground.



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Wiring Diagram



Operating Guide

The system should beep one time when powered on to notify the driver that it is on and working.

This system has a learning feature which will ignore objects directly in front of the sensors at power up (up to 20 cm). To notify the user of the “learned” blind area, the system will beep once after power up, followed by a succession of beeps depending on which sensor detects the object. (From left to right when looking at the frame, left sensor will beep two times, center sensor 3 times, and right sensor 4 times).

Once an object is detected within the range, the system will alert the driver via audible tone.

The detection range and audible alerts are as followed on the next page.



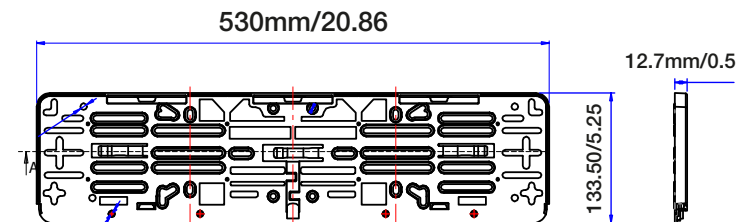
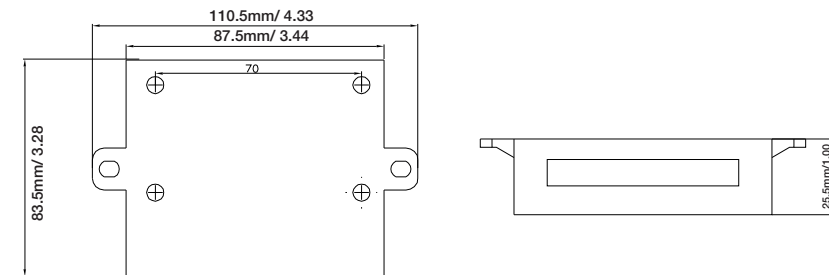
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Operating Guide (continued)

Distance	Awareness	Audible Warning
0-20cm	Danger	Bi.....
30-40cm	Caution	Bi. Bi.
50-90cm	Caution	Bi.. Bi.. Bi..
100-150cm	Safety	Bi... Bi... Bi...
160-200cm	Safety	--

Note: The chart reflects the default zone range. Performance may be affected by the following: Heavy rain, loose gravel/bumpy road, steep slopes, flat/smooth surfaces. Keep sensor surface free of snow, ice, mud, etc.

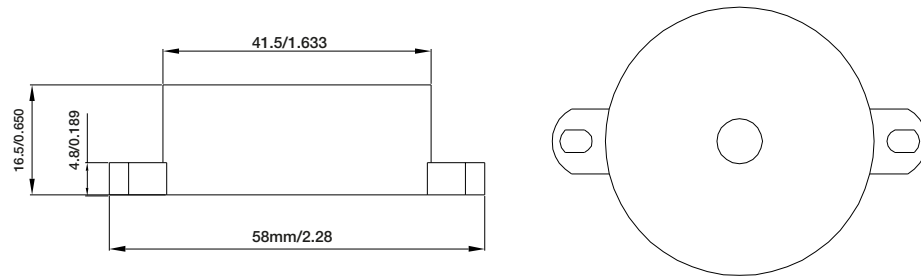
Dimensions





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Dimensions (continued)



Troubleshooting

PROBLEM	REASON	SOLUTION
Sensor doesn't work	Power wire isn't connected	Connect the RED wire to +12V
	Sensor(s) connected incorrectly	Check each sensor connection

Specification

SS-NP2	
Operating Voltage Range	9-16V DC
Power Consumption	3W
Operating Temperature	-20C - +70°C
Detection Range	0.3 to 2.0m



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