

MP100 PARKING SENSOR KIT - USER GUIDE



Please read & follow this user guide & all safety instructions carefully when using this product.

Keep the user guide for future reference. When passing the product onto others be sure to include all documentation. The user guide is also available on our website: www.maypoleltd.com

MP100 PARKING SENSOR KIT - USER GUIDE

CONTENTS

- 1 x control unit and power lead
- 1 x LED display unit with cable
- 4 x ultrasonic sensors with cable
- 1 x hole cutter
- Cable ties, adhesive pad, red cable snap connector

SCOPE OF USE

When installed this unit allows the driver to detect objects to the rear of the vehicle and so avoid them when reversing. It works automatically when the vehicle is in reverse gear and is easily installed by those competent in DIY if these instructions are followed.

This unit serves only as an aid to reversing and should not be relied on completely. The manufacturer accepts no responsibility for accidents or damage following the use or installation of this product.

Note – not designed for use when towing or for accessories such as rear mounted cycle carriers or spare wheels etc.

Note – not suitable for multiplex/ CANBUS controlled lighting.

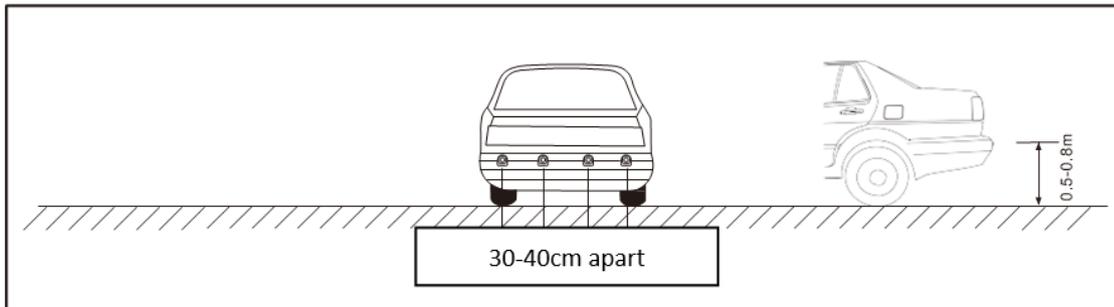
INSTALLATION

1. Carefully calculate, measure and lightly mark the positions of the 4 sensors on the rear bumper. They should be:
 - In a horizontal line between 50–80cm above ground level. 55cm is the optimum height above the ground.
 - Evenly spaced 30-40cm apart. It is recommended that sensors A & D should be located 8-13cm from the outer ends of the bumper, 11cm being the optimum distance from the ends.
 - On a flat and vertical surface.
2. Ensure that no wires or other fittings are located inside the bumper that may be damaged when drilling and that sufficient space exists to accommodate the sensors.
3. Double check all measurements at this stage to avoid errors. NOTE : If you are not completely sure about positioning the sensors then contact your dealer before drilling

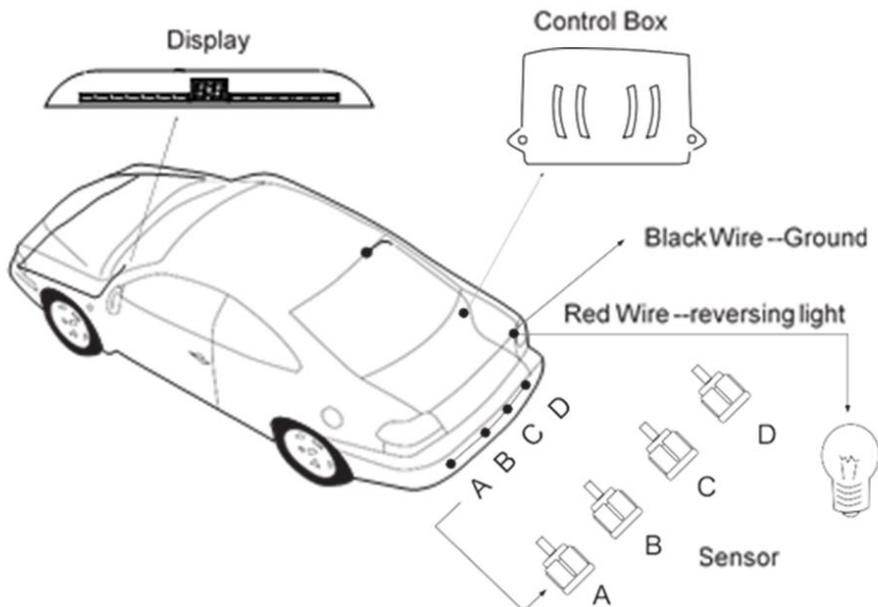
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the holes as the manufacturer can accept no responsibility for damage due to incorrectly drilled holes.

- Drill small pilot holes in the correct locations before using the hole cutter provided to make the necessary sensor holes.

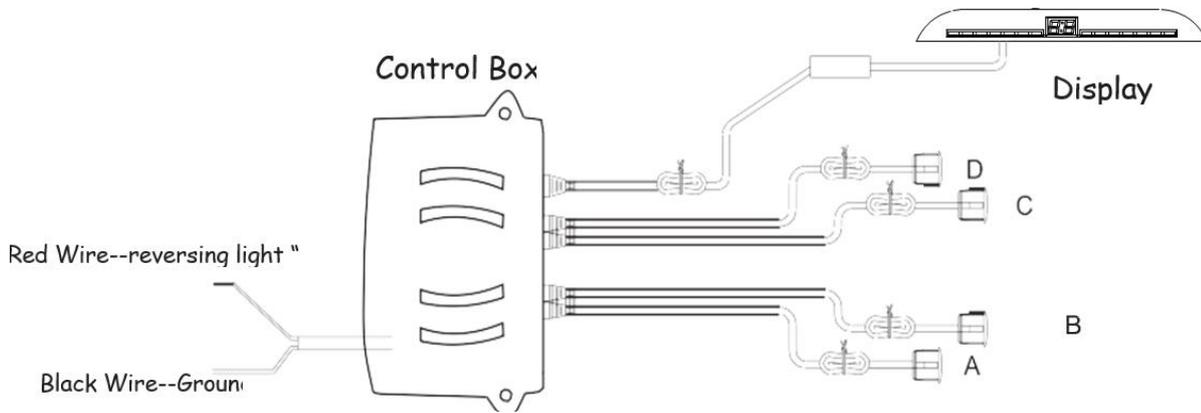


- The sensors can then be pushed in.
- The control unit should then be fitted in an unobtrusive location in the boot of the car, away from heat sources or where it is likely to get damaged. It may be fixed in place using the self-adhesive pad provided.
- Run the sensor wires to the control unit, concealing as necessary, but **do not connect to the control unit at this stage.**
- Place the Digital LED display in a prominent position on the front dashboard and connect to the control unit using existing cable conduits and concealing cables wherever possible.
- Make the electrical connection to the 12V reversing light wiring using the red snap-connector provided. Connect the red wire to the positive supply and the black wire to the negative (earth). Alternatively, if one is fitted or required, connect to a suitable by-pass relay.



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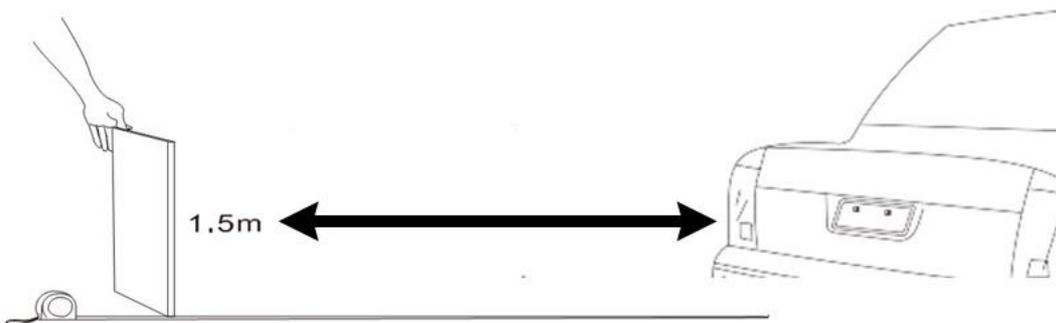
WIRING DIAGRAM



COMMISSIONING

This should be done with the ignition switched on, although it is not necessary to start the car.

Connect one of the sensors to the control unit and place a large object 1.5m in front of it. The sensor should then detect the object – the LED should display the correct distance and a “Beep” noise should be heard. Once tested successfully disconnect the sensor and test the other sensors one by one in the same way. Finally, re-connect all sensors to the control unit.



NOTE : Sensors must be connected to the correct port on the control unit. Each sensor cable is clearly labelled A to D and should be matched with the corresponding port on the control unit.

Objects closer than 0.5m will be detected and signaled with a continuous “Beep”. However, the LED digital display will read 0.0, which is normal.

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DETECTION RANGE

The sensors will activate when the reverse gear is engaged. Effective detection takes place up to 2.5m either side of the centre line of the vehicle.

Stage	Object Distance	Area	Audio Alarm	Distance on LED Display	LED Display Colour
1	2.5 – 1.6m	Safe Area	No Alarm	2.5 – 1.6	Green
2	1.5 – 1.1m	Alarm Area	Beep....Beep....Beep	1.5-1.1	Green
3	1.0 – 0.4m	Alarm Area	Beep..Beep..Beep..Beep	1.0 – 0.4	Yellow
4	<0.3m	Danger Area	Continous Beep	<0.3	Red

TROUBLE SHOOTING

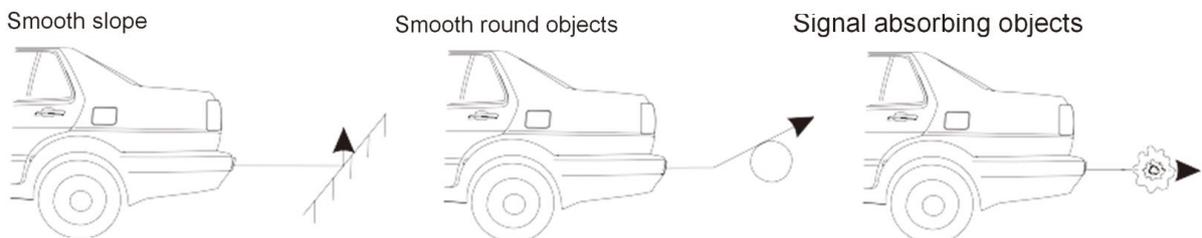
If incorrect distances or sounds are encountered during testing, check for obstructions or whether the sensor is detecting part of the vehicle and adjust it accordingly.

If the faults persist after re-checking with adjustments made to the sensors; the whole product should be returned to your dealer.

This unit may not function accurately if the sensors are covered in water, snow, ice or dirt, when the car is on a sloping or bumpy road, or in extremes of temperature.

The sensors may also be affected by interference from electrical fields, for example from other wires, other sensing devices or DC/AC inversion.

Certain objects can be hard to detect which are shown below:



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TECHNICAL SPECIFICATION

Operating Voltage	12V
Sensing distance	0.3 – 2.5m
Operating current	0.1 – 0.12A
Ultra sonic frequency	40kHz
Operating temperature	20-40 degree

DECLARATION OF CONFORMITY

We declare that this product conforms to the following standards:



EMC directive 2014/30/EU

ROHS directive 2011/65/EU amending Annex (EU) 2015/863 (EU) 2017/2102.



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