

Video Parking Sensor



Dear User, Thank you for choosing and using our Parking sensor. We are going to provide the best products and the best services to you.

To insure the best performance and avoid any false alarm or function failure, please kindly read this manual carefully and install accordingly.

We reserve all rights for our parking sensor, including the designs and the software. Any unauthorized copy or translation is prohibited. And the products' specification and information related in the Manual provide the references only, and the content of the Manual will be renewed according to the process of the products without advance information, and the final explanation rights of the Manual is reserved by us.

Please note that this system is designed to be a driver's aid and should not replace the need to drive carefully, we accept no liability for damage or loss resulting from importer installation or use of this product, infringement of the vehicle manufacturer's warranty or injury or loss resulting from any accidents however caused. If in doubt please consult a qualified auto electrician.



Date: 15/04/2014

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ISO 9001

NM_KL30944_000_15042014_EN

Packaging list

☉ Display	x1
☉ Sensors	x4
☉ Cables	x5
☉ Drill bit	x1
☉ Control unit	x1
☉ Camera	x1
☉ Manual	x1

Function

- ☉ 4.3" TFT monitor can display the back image
- ☉ 2 ways video input, one is connect to the back camera, the other is connect to the DVD/VCD
- ☉ The 4 sensors can detect obstacles when reversing, and show the obstacle distance colorfully in monitor, step-up buzzer alarm.

Specifications

Rated voltage:	12V DC
Operating voltage:	9V ~ 16V DC
Rated current:	20mA ~ 300mA
Display distance:	0.3 ~ 1.8m
Ultrasonic frequency:	40kHz
Monitor resolution:	320 x 240 pxl
Camera resolution:	659 x 492 pxl

Alarm MODE

Model	Awareness	Distance	Sound	Digital display	Indicator
Display buzzer alarm	Safe mode	120 ~ 180cm	Bi ...Bi...	1.2 ~ 1.8m	Green
	Safe mode	100 ~ 120cm	Bi..Bi..	1.0 ~ 1.1m	Yellow
	Alarm mode	60 ~ 100cm	Bi.Bi.	0.6 ~ 0.9m	Yellow
	Alarm mode	40 ~ 60cm	BiBi	0.4 ~ 0.5m	Red
	Dange mode	0 ~ 40cm	Biiii	0.0 ~ 0.3m	Red

Installation Instruction

Note: Before installing system let the components of the exhaust system cool down. This will make the installation safer and preclude head damage to the backup sensor wiring or components.

The following illustration shows the general location of the components of the backup system.



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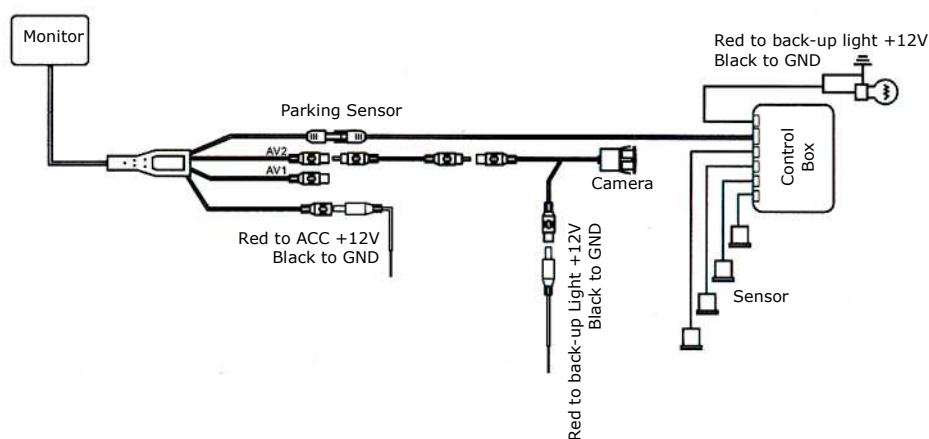
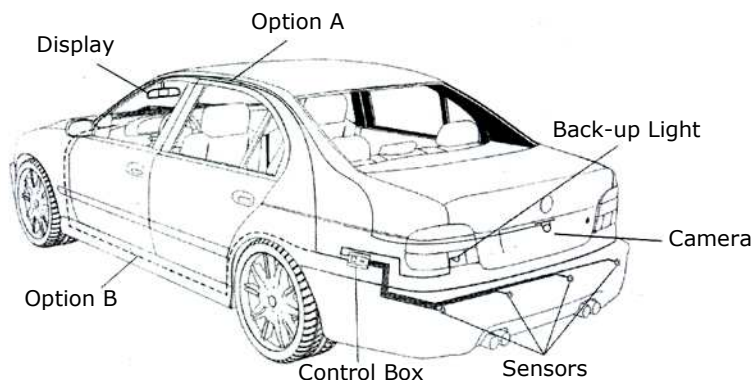
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Tools



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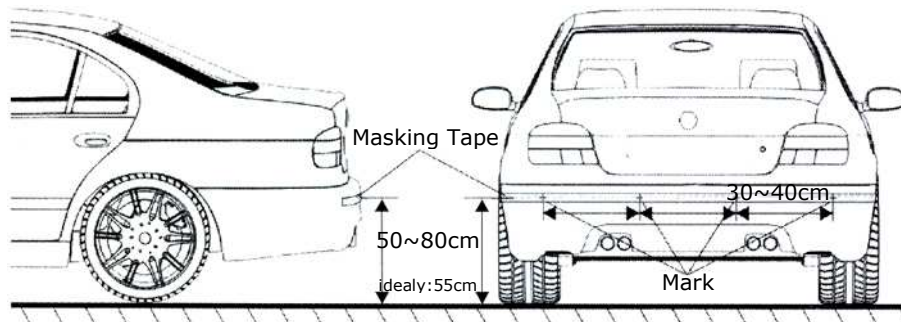
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ISO 9001

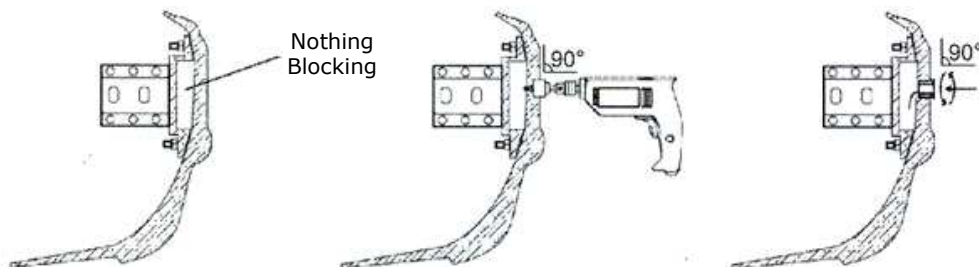
NM_KL30944_000_15042014_EN



Sensor Installation



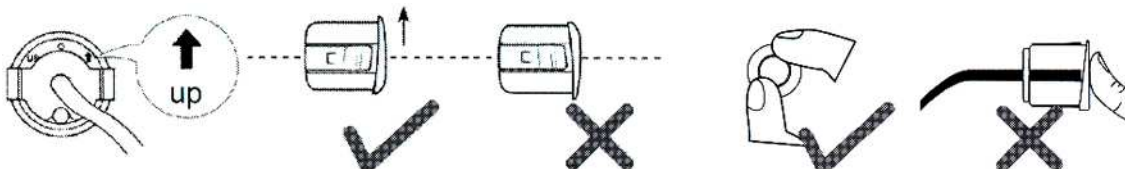
First locate where you are going to install the sensors and place a piece of masking tape. Measure and mark the position of the holes.



Make sure that there is nothing blocking the area behind the bumper, where the sensors go.

Drilling position must be perpendicular to the surface of the bumper.

As you push, wiggle the sensor and make sure it goes all the way in and flush against the bumper, leaving no gap.



Install the sensors vertically; the „UP” sign must be on upside.

Limitation

The sensors may not work if an object does not reflect the ultrasonic waves or it has an unusual shape, pole cardboard carton, tire of bicycle, small or slender tree, rectangular lumber or curbs tone. The sensor may not detect another vehicle bumper if it is too high.

Also note: This system has different detection distance to the different object.

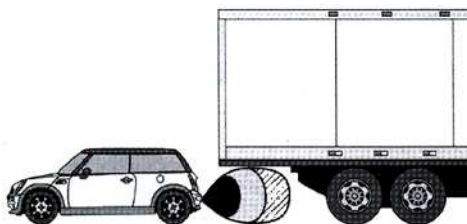
- To the wall, the max. detection distance is 1.8m
- To the human body, the max. distance is 1.0m
- To the column is Ø40cm, the max. detection distance is 1.2m



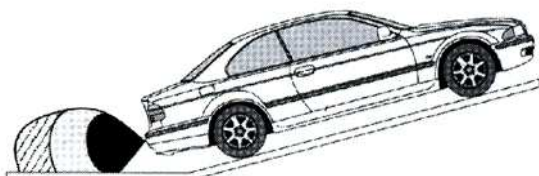
In some special cases, the display may not be the same as the real condition due to the sensor position, obstacle shape, reflection condition and so on. Some examples are given below



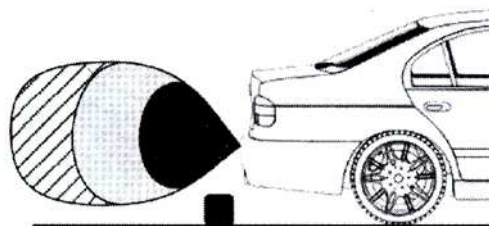
If the vehicle is equipped with high-power radio antenna.



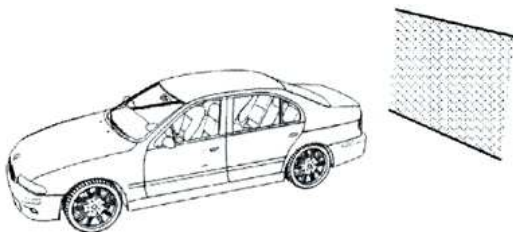
If another vehicle bumper is too high.



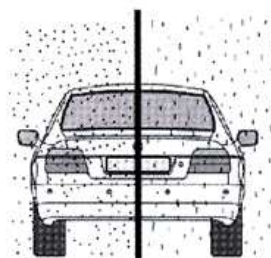
When backing up downhill.



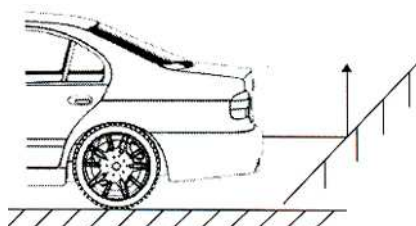
If there is a very small object.



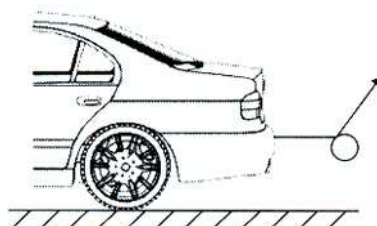
If there is a wire fence.



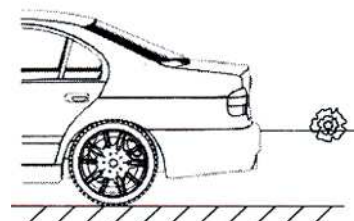
Backing up in heavy rain or snow.



If is smooth slope.



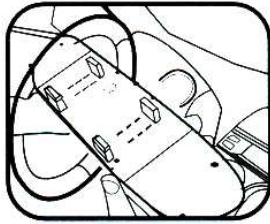
If is smooth round object.



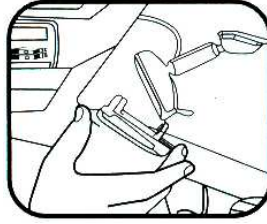
Object absorbing wave, e.g. Cotton.



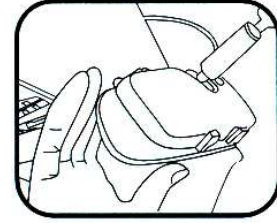
Rearview mirror Installation



Prepare for installing



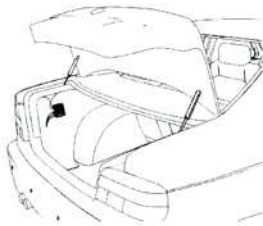
Installing



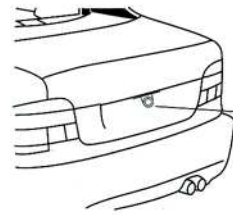
Installed

Please put this product is properly installed in your car on the original rearview mirror.

Control Box Installation



Remove the necessary back panels to mount the control box in a safe place, away from rain, heat or humidity



Camera

Pls adjust the available angle for the camera once finish installing

After Installation Test

Use the following to test and verify the operation of the backup system:

Warning:

Do not stand behind a moving vehicle death or injury could occur. Prior to testing, set the parking brake On, ignition key On (do not start), step foot on brake and shift the vehicle into reverse. Ensure that the engine is not running while proceeding with the following tests.

Test the system operation with a piece of wood (60x30x1cm) or other object (not too small) after the installation. Start with the wood more than 1m away from the vehicle. Then move the wood closer the vehicle and ensure that the buzzer, LED and distance indicators display correctly.

Trouble shooting

No buzzer or display at power up.

1. Is power wire connected to control unit correctly ?
2. Verify (+) 12V at control unit when vehicle is in reverse.
3. Verify the ground connection.
4. Have you connected to the correct reversing indicator wire ?



5. Do you have a minimum of (+) 12V and ground at the display?

False warning tone or false display.

1. Is the sensor mounted too low or pointing to the ground?

Sensor do not detect any objects.

1. Is the vehicles exhaust smoking? Correct or allow it to clear before proceeding with testing.
2. Are sensors properly plugged into the correct sockets?

No reverse image.

1. Is the connection of camera power cable and AV cable are right or not?
2. Is AV cable connected to AV2?



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Note ! Specifications subject to change without notice.

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