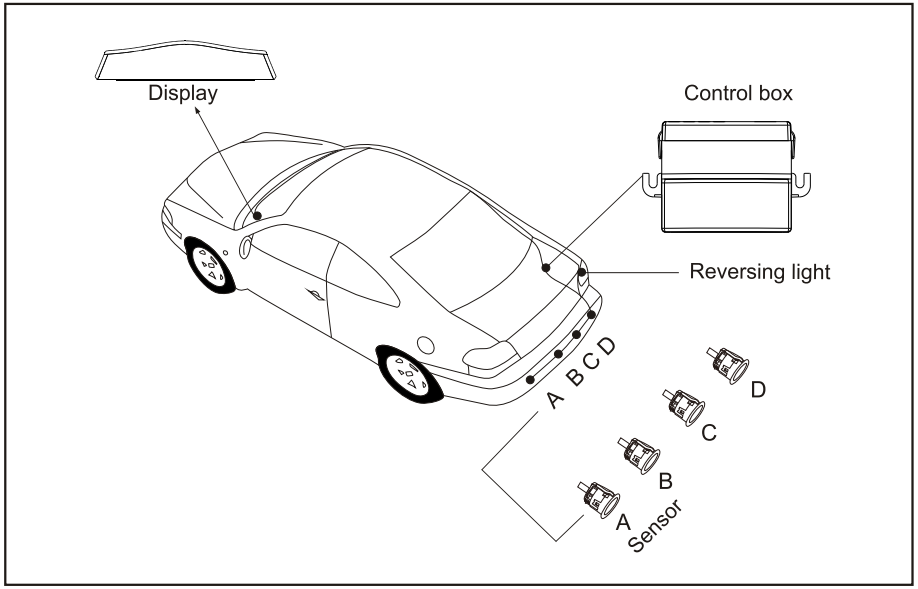
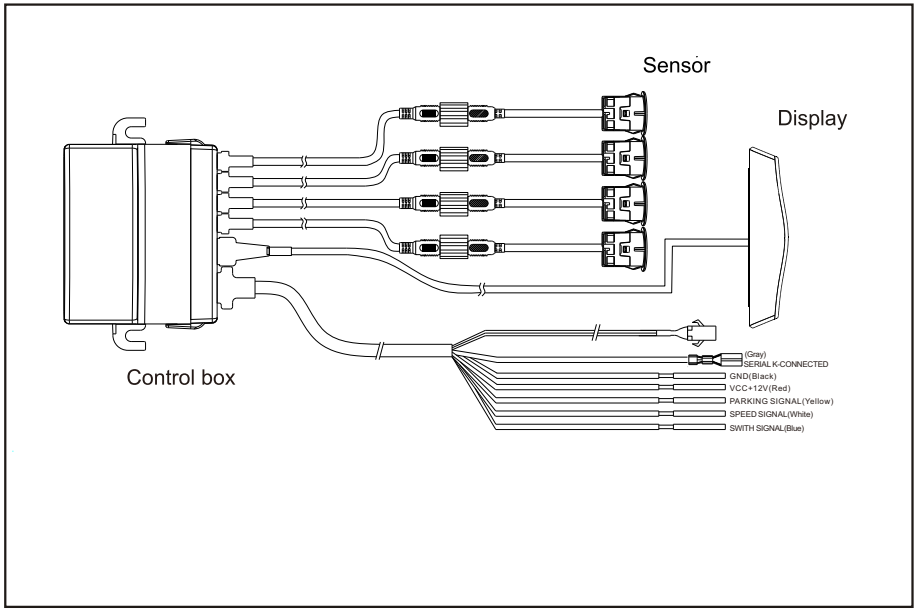
H-133E

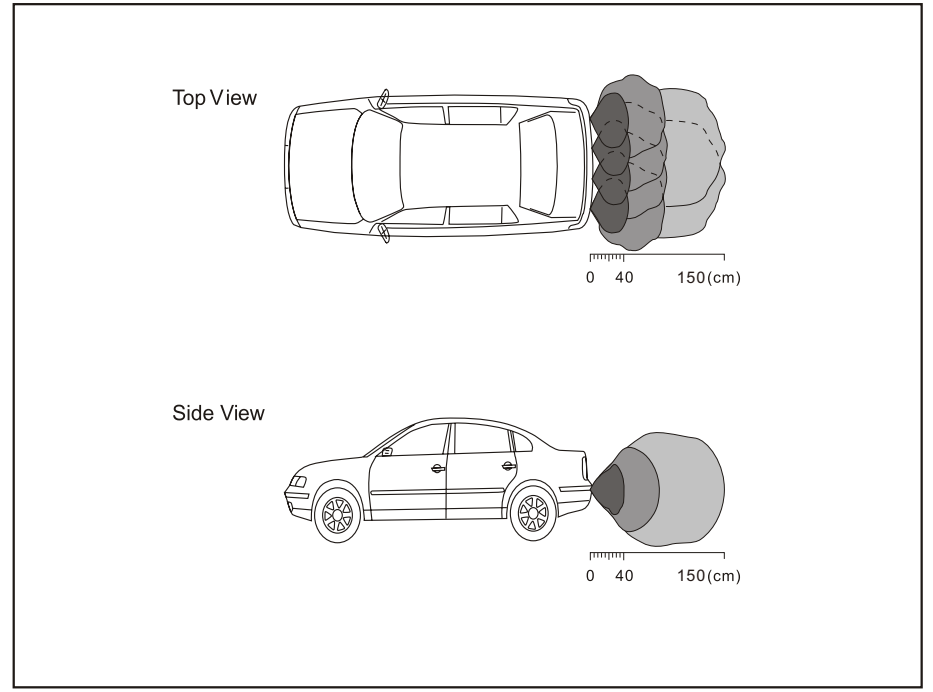
ISO 9001:2000 FM 78496
QS 9000:March 1998 FM 78495

GENERAL INSTALLATION DIAGRAM

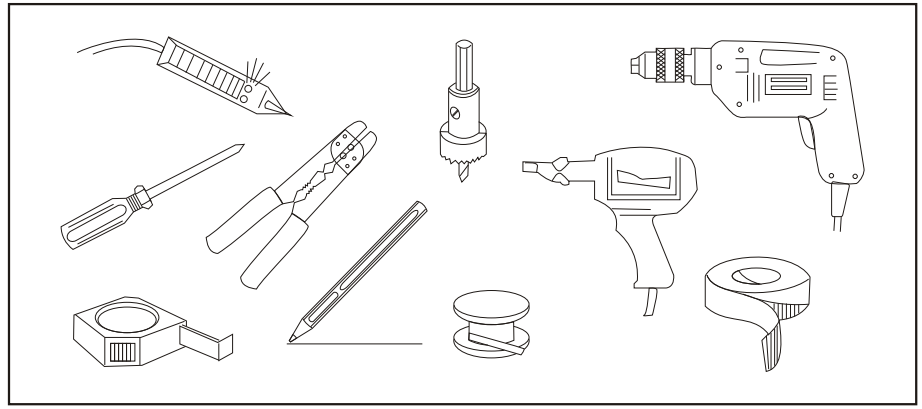




DETECTING RANGE

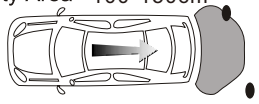


INSTALLATION TOOLS

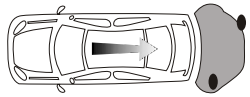


DISPLAY STATUS

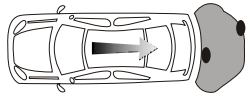
Safety Area 100-150cm



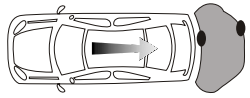
Alarm Area 40-90cm



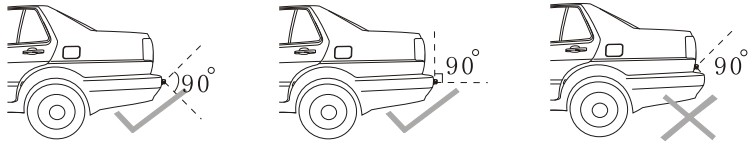
Danger Area 30cm



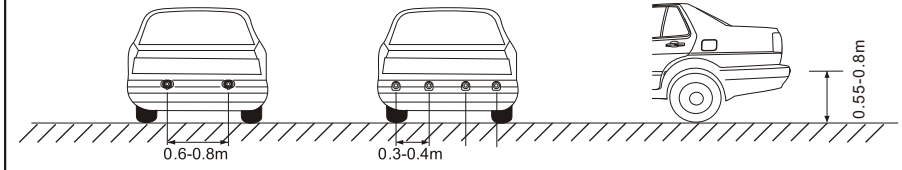
Danger Area < 30cm



SENSOR INSTALLATION DIAGRAM

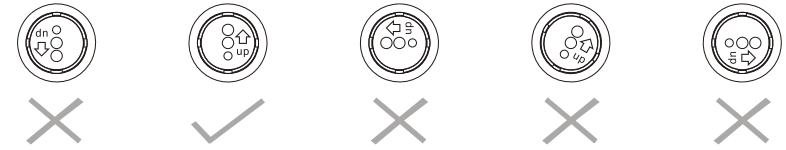


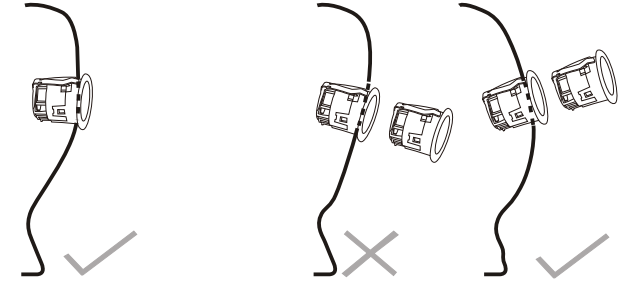
Be sure no other part of vehicle falls into detecting range of sensors



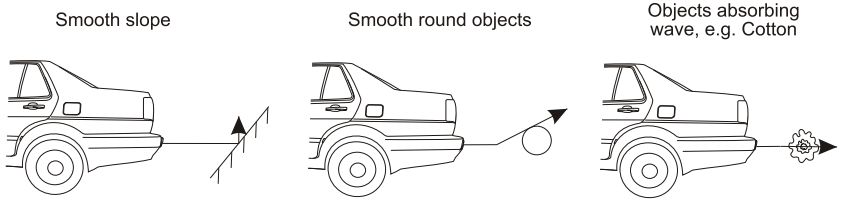
The best position for 2 sensors The best position for 4 sensors

Pay attention to the direction of the sensor



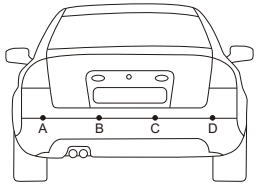


Vertical installation position to the ground Sloping installation position to the ground

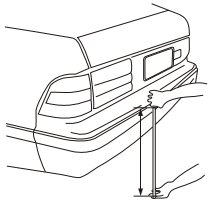


Objects hard to be detected

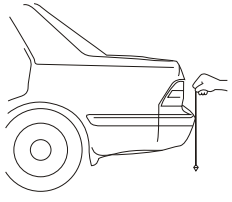
1. Advised position to install the sensors



A. 4 drilled holes (A,B,C,D) should be under the same line.

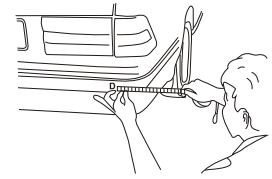


B. Preset of sensor installation height, 0.55 - 0.8m vertically high to the ground.

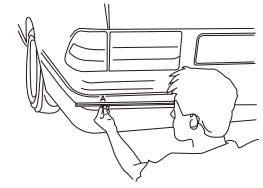


C. Vertical, tidy surface is preferred.

2. Select drilling position for sensor A & D

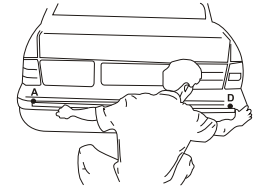


A. Choose suitable drilling position for A & D sensor with relevant mark.

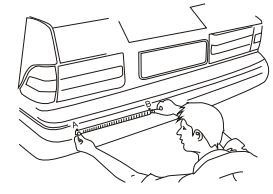


B. To perform the best detecting angle, select the position for A & D sensor with 8-13cm away from the side, 11cm is recommended.

3. Select drilling position for sensor B & C

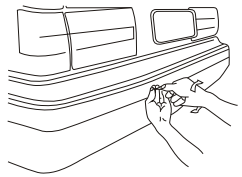


A. Measure the distance between sensor A and D, get the result "L".

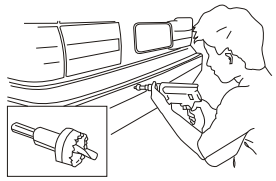


B. Mark sensor B & C for every 1/3 "L" interval.

4. Drilling

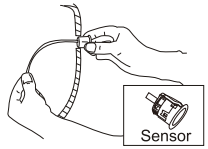


A. Drill with a small awl to locate.

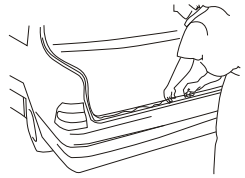


B.Drill with 20.5mm drill bit supplied.

5. Sensor Installation

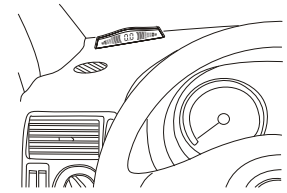


A. Insert the sensors into the holes one by one and tighten them.



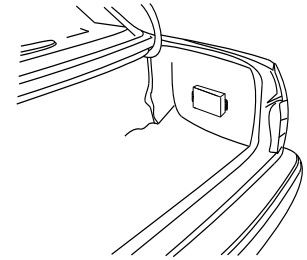
B. Hide the wires in good order according to various cars.

6. Display Installation



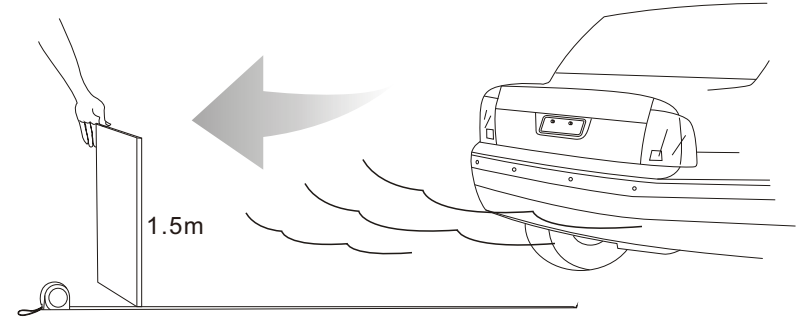
The display should be installed in clean place where easy to be seen.

7. Control box Installation



Locate the control box in the boot, keep safe, cool, dry and away from shake and interference.

8. Sensor Detecting



H-133E PARKING SENSOR

H-133E parking system consists of ultrasonic sensors, digital control box and LED display. This system detects the distance between the car and rear obstruction by ultrasonic sensors installed at the rear bumper of car. The distance will be displayed in an innovative mode with the special designed LED, numeric display and step-up sounds, which will be changed according to the actual positions of detected obstruction so that the driver could judge the distance and avoid accident.

MAIN FEATURES

- Digital LED display
- Direction indicator of left, middle & right
- Simulated bars display direction indicator
- "BiBi" alarm sound
- Hidden installation

TECHNICAL SPECIFICATIONS

- Rated Voltage: DC 12V
- Operating Voltage: DC 10～16V
- Operating Current: 30-280mA
- Detecting Distance: 0.2～1.5m
- Ultrasonic Frequency: 40KHz
- Working Temperature : -30～+70℃
- Display Size: 79*31*18mm

ALARM MODE

Stage	Distance	Awareness	Digital Display	Bars
1	1.5~1.3m	Safety Area	1.5~1.3	1Green
2	1.2~1.0m	Safety Area	1.2~1.0	2Green
3	0.9~0.8m	Alarm Area	0.9~0.8	2Green+1Yellow
4	0.7~0.6m	Alarm Area	0.7~0.6	2Green+2Yellow
5	0.5~0.4m	Alarm Area	0.5~0.4	2Green+2Yellow
6	0.3m	Danger Area	0.3	2Green+2Yellow+1Red
7	<0.3m	Danger Area	0.0	2Green+3Yellow+3Red

INSTALLATION STEPS

1. Choose right installation position for sensors
2. Select drilling position for sensor A & D
3. Select drilling position for sensor B & C
4. Locate the position and drill
5. Install the sensors and hide wires
6. Install the display
7. Install the control box
8. Connect the whole system according to the General Installation Diagram

INSTALLATION AND TEST

1. Adjust the directions of the sensors and axial orientation, neaten the wiring after installing the sensors.
2. Connect the power supply of control box to the reversing light.
3. Connect the data wires between the control box and display.
4. When the car is started and in reverse gear, the buzzer sounds "BiBi" to enter into working status , 1s later, it turns to standby status. Insert one of the sensors into corresponding interface in control box. Human being could be detected normally, if he stands within 0.9m right before the sensor; Pull out the sensor, and check other sensors in the same method. Insert all the sensors in corresponding interfaces after testing.

Test: a. After connect a sensor with the control box, if the buzzer sounds"Bi……", please check whether there is any obstacle around it, or the sensor is fixed too tight or close to great interference sources(such as vent-pipe, wires); b. If the display shows any distance figure with no obstacle around the sensor, the sensor may detect the ground or some outshoots of the car (such as registration mark etc.), please check the directions of sensor and axes; c. If the system still could not work properly after the above mentioned handling, the sensor(s) can be deemed defective, or unmatch with the control box. The system should be replaced.

NOTE

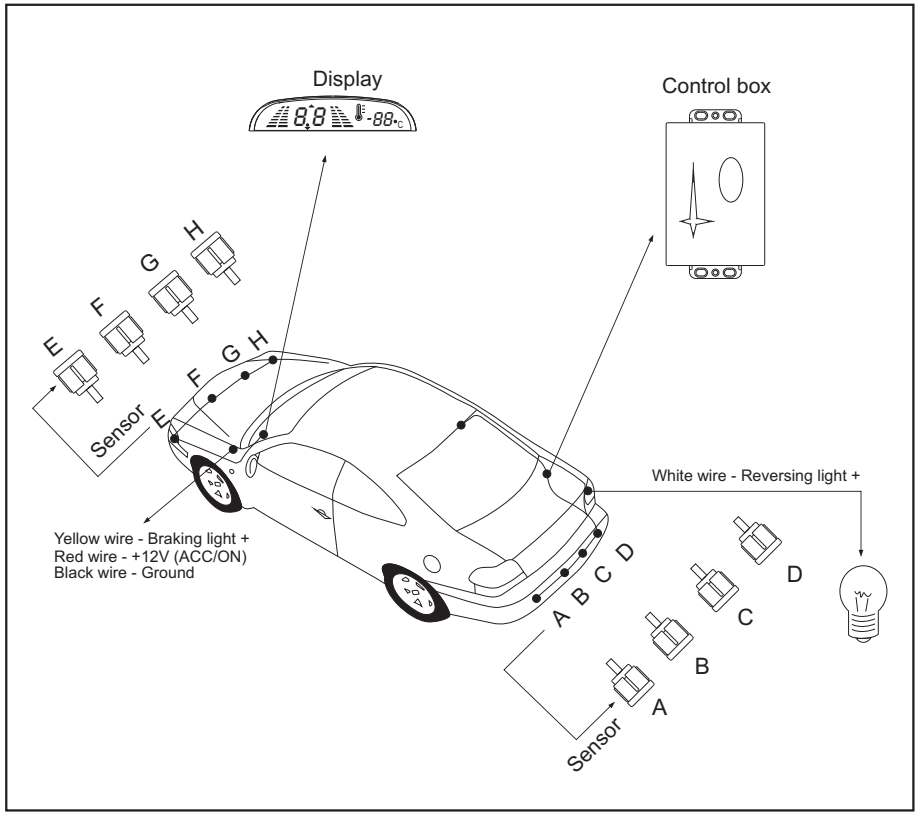
1. The car must be in power-off,during the installation of the system
2. Its performance may be affected in following situation: heavy rain, gravel road, bumpy road sloping road and bush, very cold, hot or moist weather, or the sensor is covered by snow, ice et.
3. Switches among ultrasonic, electric wave, DC and AC and those among 24V, 12V voltages may also effects its performance.
4. The sensors should be installed appropriate loose or tight.
5. Its performance will be effected if the sensors are fixed on metallic bumper.
6. Avoid installing the digital control box in places of great interference, such as vent-pipe, wiring nearby.
7. Test the system to make sure it works normally before using.
8. This system is a reversing aid and the manufacturer will take no responsibility for any accidents caused after the kit is installed.

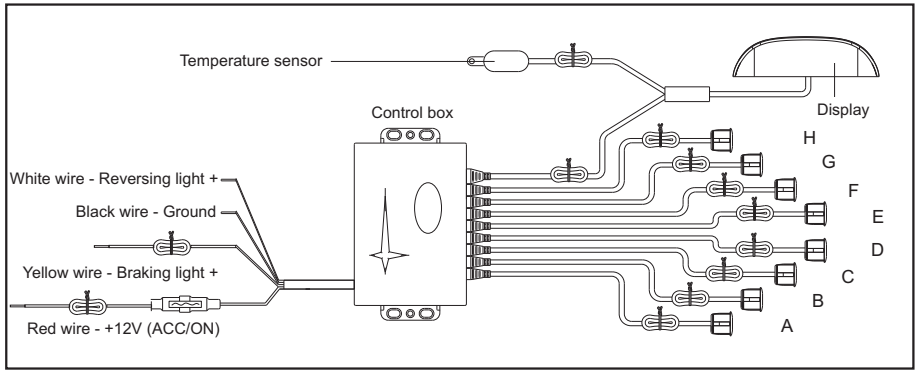
H-086
PARKING SENSOR SYSTEM

USER'S MANUAL

ISO 9001:2000 FM 78496
QS 9000:March 1998 FM 78495

GENERAL INSTALLATION DIAGRAM





LED DIGITAL DISPLAY

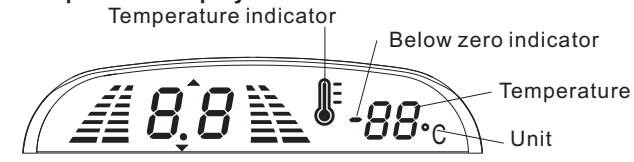
When in brake, display status

0.7~0.9m	Stage 1 Alarm area Yellow, Green
0.4~0.6m	Stage 2 Alarm area Yellow
0.3m	Stage 3 Danger area Red
＜0.3m	Stage 4 Danger area Red

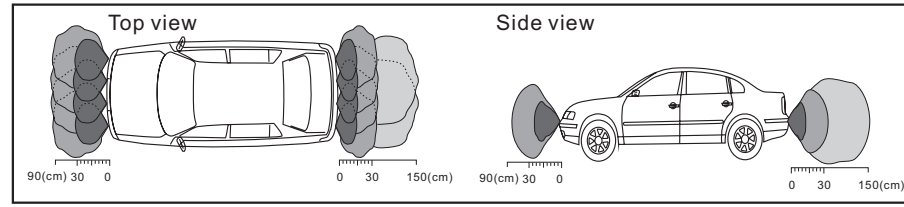
when in reverse, display status

1.5m	Stage 1 Safety area Green
1.3~1.4m	Stage 2 Safety area Green
1.1~1.2m	Stage 3 Safety area Green
0.7~1.0m	Stage 4 Alarm area Yellow
0.4~0.6m	Stage 5 Alarm area Yellow
0.3m	Stage 6 Danger area Red
<0.3m	Stage 7 Danger area Red

Temperature display mode



DETECTING RANGE

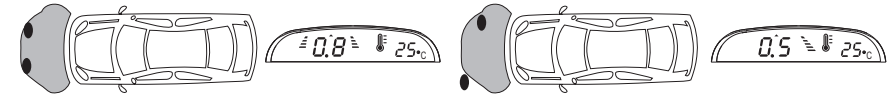


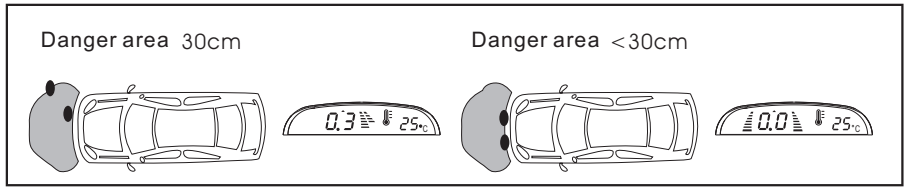
DISPLAY STATUS

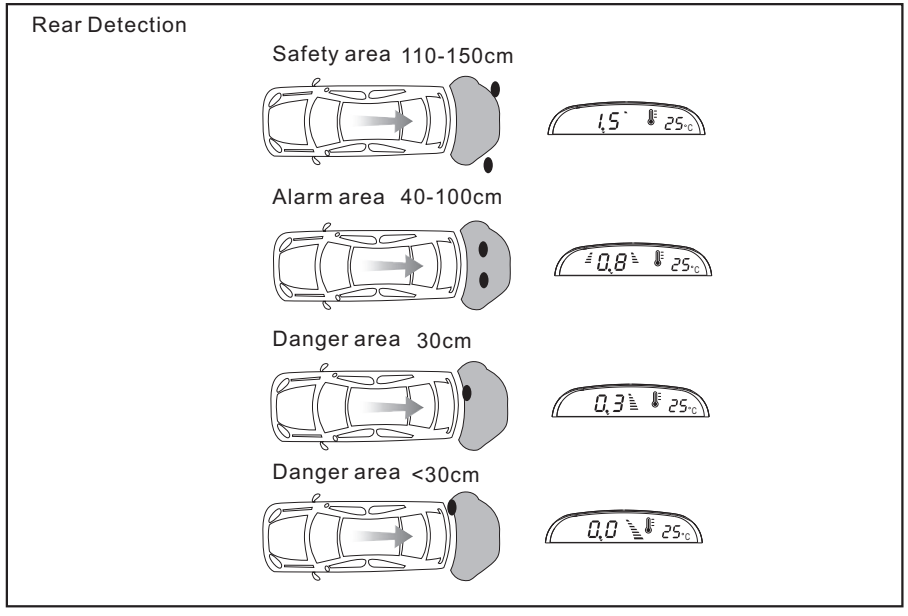
Front Detection

Alarm area 70-90cm

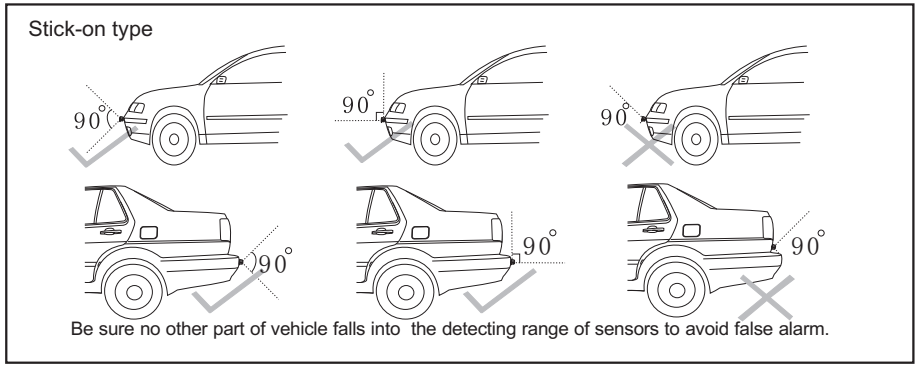
Alarm area 40-60cm

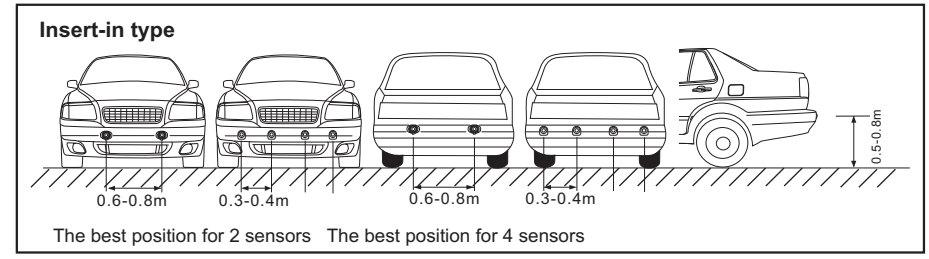


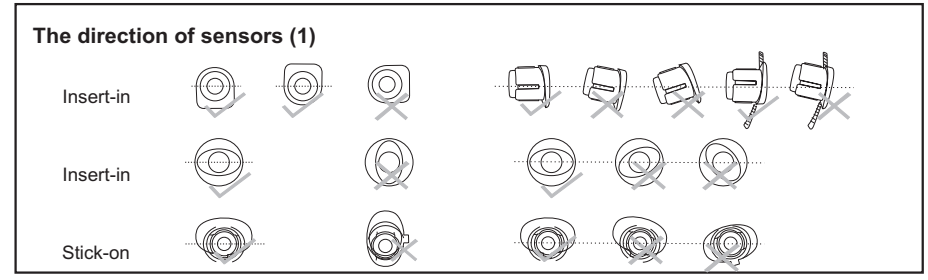


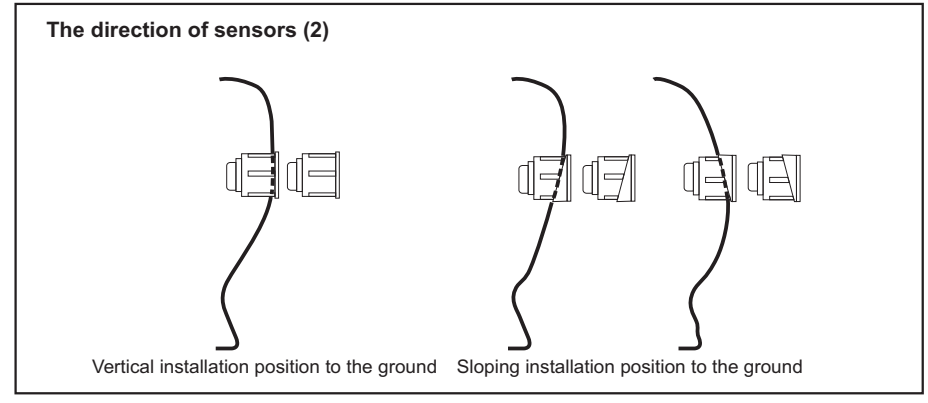


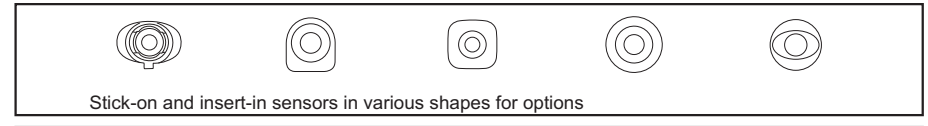
SENSOR INSTALLATION DIAGRAM

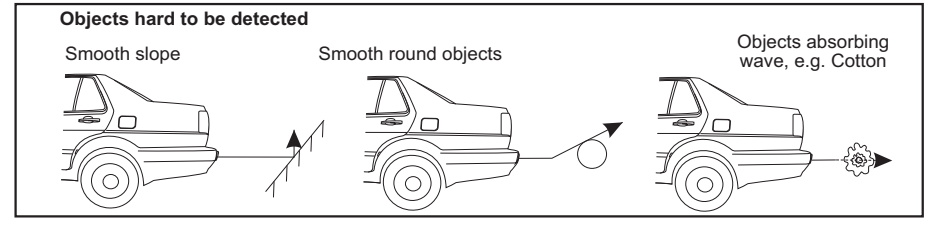




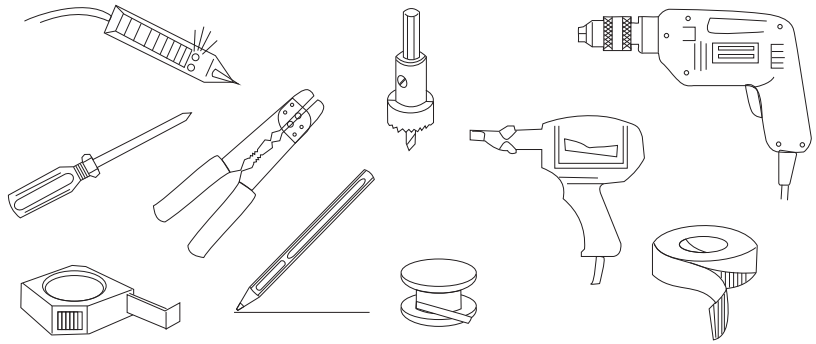




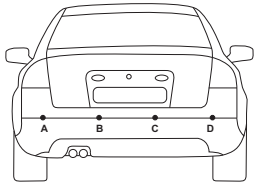




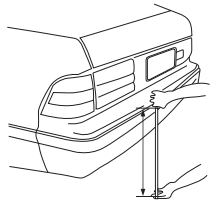
INSTALLATION TOOLS



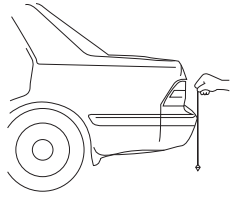
1. Advised position to install the sensors



A. 4 drilled holes (A,B,C,D) should be under the same line.

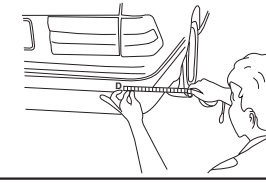


B. 0.5-0.8m vertically high to the Ground, 0.55 is recommended.

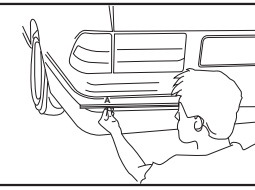


C. Vertical, tidy surface without metal components is preferred.

2. Select drilling position for sensor A & D

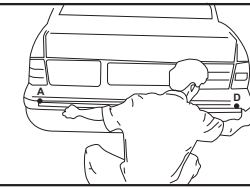


A. Choose suitable drilling position for A & D sensor with relevant mark.

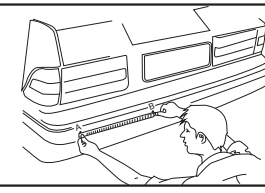


B. To perform the best detecting angle, select the position for A & D sensor with 8-13CM away from the side, 11CM is recommended, and 20 ° angle with the side.

3. Select drilling position for sensor B & C

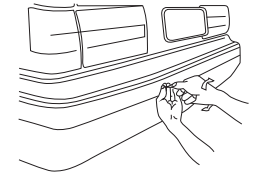


A. Measure the distance between sensor A and D, get the result "L".

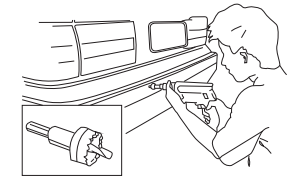


B. Mark sensor B & C for every 1/3 "L" interval.

4. Drilling

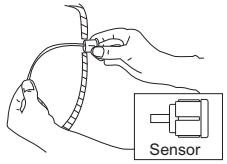


1. Firstly, use a small driller tip to locate.

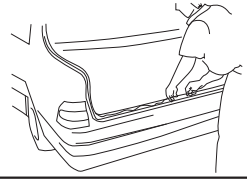


2. Drill with the original driller.

5. Sensor Installation

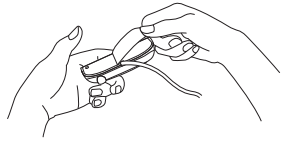


1. Insert the sensors into the holes one by one and tighten them, the sensor with metal slice must be up and down fixed instead of right and left.



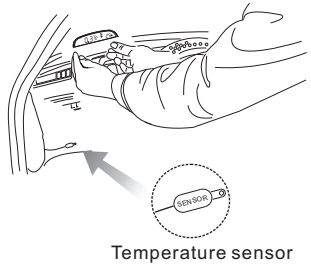
2. Hide the wires in good order according to various cars.

6. Others



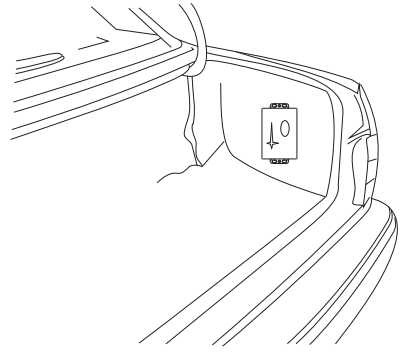
Take off 3M sticker

The display should be installed where easy to be seen



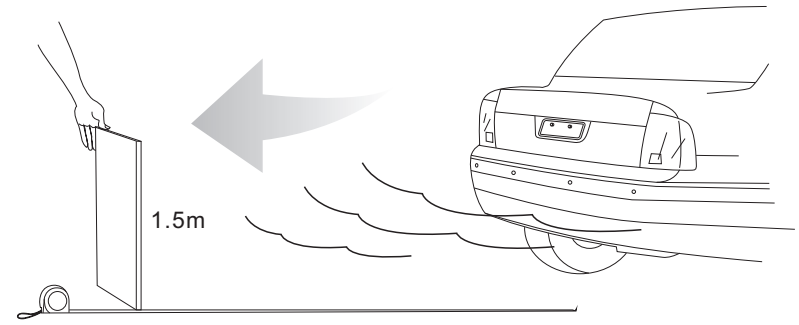
Temperature sensor

Locate the temperature sensor in a hidden place inside the car.



Locate the control box in the boot, keep safe, cool, dry and away from shake or interference.

7. Sensor Detecting



H-086

parking sensor system

H-086 parking sensor system consists of control box, LED display and ultrasonic sensors. The system detects the distance between the car and front/rear obstruction by ultrasonic sensors installed at the front/rear bumper of the car. The distance will be displayed on the digital LED display. Based on the distance displayed, the driver can judge the actual position and avoid accidents.

When in brake, the front four sensors start working. When in reverse, the rear four sensors start working. The system has reversing detection priority. The system has brake delay function. When the brake ends, the system will still work 30 seconds in the brake mode.

MAIN FEATURES

- Front and back detection
- Digital LED display
- Seven-stage simulative bar distance display
- "BiBi" alarm sound
- 30 seconds brake delay function
- 30 seconds reversing delay function
- Car inside temperature indicator, switch on/off
- Volume adjustable

TECHNICAL SPECIFICATIONS

- Operating Range: 9 - 16V DC
- Rated Voltage: 12V DC

- Operating Current: 30 - 180mA
- Detecting Distance: Front (0.3 - 0.9m), Rear (0.3 - 1.5m)
- Ultrasonic Frequency: 40KHz
- Working Temperature (Control box): - 30 ~+70°C
- Working Temperature (Display): - 20 ~+70°C
- Temperature Display Range: - 30 ~+70°C
- Display Size: 141.2*57.6*25.2mm

ALARM MODE

(Front detection)

Stage	Distance	Four Stages	Awareness	Alarm Sound	Digital Display	Alarm Color
1	0.7~0.9M	Stage 1	Alarm Area	Bi·····Bi·····	0.7~0.9	3Green+1Yellow
2	0.4~0.6M	Stage 2	Alarm Area	Bi···Bi···	0.4~0.6	3Green+2Yellow
3	0.3M	Stage 3	Danger Area	Bi……	0.3	3Green+2Yellow+1Red
4	＜0.3M	Stage 4	Danger Area	Bi……	0.0	3Green+2Yellow+2Red

(Rear detection)

Stage	Distance	Four Stages	Awareness	Alarm Sound	Digital Display	Alarm Color
1	1.5M	Stage 1	Safety area	Bi……Bi……	1.5	1Green
2	1.3~1.4M	Stage 2	Safety area	Bi……Bi……	1.3~1.4	2Green
3	1.1~1.2M	Stage 3	Safety area	Bi……Bi……	1.1~1.2	3Green
4	0.7~1.0M	Stage 4	Alarm Area	Bi……Bi……	0.7~1.0	3Green+1Yellow
5	0.4~0.6M	Stage 5	Alarm Area	Bi…Bi…	0.4~0.6	3Green+2Yellow
6	0.3M	Stage 6	Danger Area	Bi……	0.3	3Green+2Yellow+1Red
7	＜0.3M	Stage 7	Danger Area	Bi……	0.0	3Green+2Yellow+2Red

INSTALLATION STEPS

1. Choose right installation position for sensors
2. Select drilling position for sensor A & D(Select drilling position for sensor 1 & 4)
3. Select drilling position for sensor B & C(Select drilling position for sensor 2 & 3)
4. Locate the position and drill
5. Install the sensors and hide the wires
6. Install the display
7. Install the control box
8. Connect the whole system according to the General Installation Diagram

INSTALLATION AND TEST

1. Adjust the directions of sensors and axial orientation. Neaten the wires after installing the sensors.
2. Connect the Red wire of the Control box to ACC, black wire to Ground, white wire to Reversing signal wire, yellow wire to braking signal wire. Connect the date wires between Control box and display.
3. Launching the car, the display shows the environmental temperrature inside the car.
4. Put one sensor (mark: E, F, G, H) into the corresponding outlet in the control box, display shows ".". If there's no obstacle in front, it means the system is in test status. Someone stands within the distance of 0.7m should be detected. Disconnect the sensor, and test other sensors like this one by one. After that, connect all the 4 front sensors to corresponding outlets.
5. When the driver engages the rear, the rear sensors should work.
6. When the driver disengages the rear, the rear sensors turn off and the front sensors work for 30 seconds.
7. When the driver presses brake pedal, the front sensors should work for 30 seconds.

Please be noted the following information while install and adjust the sensors (include front and back sensors)
a. If the buzzer sounds "BiBi.." after some sensor connect to control box, please check if there are obstacles in front or beside the car, the sensor was installed too tight, the sensors under vibration affacting to big part-near the electric wires , for example. **b**. If the alarm is the indication sound of some area like "Bi…Bi…" while there is no obvious obstacle in front or beside, it maybe that the sensor detected the surface of earth, please check if the directions of the sensor and axial oreitation is correct, the level axial wire should be upraised, or it detects the outshoots like lisence Plate and so on. **c**. If it still has problems after all above checking, the sensor may be broken or sensors don't match to control box. The whole system shuld be changed. **d**. The sensors of the system should be corresponding to the outlet of control box, while connecting to sensors, please pay attention to the mark. e. while the distance of obstacle less than 0.3m, display would shows "0.0" instead of "0.2, 0.1" to warn the driver to stop the car immediately.

NOTE

1. The car must be in power-off when installing ultrasonic sensors
2. Its performance may be affected in following situation: heavy rain, gravel road, bumpy road sloping road and bush, very cold, hot or moist weather, or the sensor is firned or iced over.
3. Switches among ultrasonic, electric wave, DC and AC and those among 24V, 12V voltages may also effect its performance
4. The sensors should be installed appropriate loose or tight.
5. Its performance will be effected if the sensors are fixed on metallic bumper.
6. Avoid installing the digital control box in places of great interference, such as vent-pipe, wiring nearby.
7. Test the system to make sure it works normally before using
8. This system is a reversing aid and the manufacturer will take no responsibility for any accident after the kit is installed.

JS-006-EN

ISO 9001:2000 FM 78496
QS 9000:March 1998 FM 78495

Rearview System

Parts

3.5"TFT display

display bracket

control box

sensor

camera

power wire

camera power wire

drill

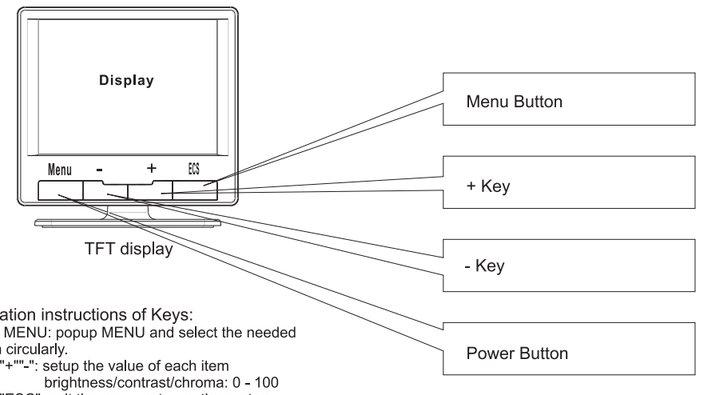
Specifications

-Operating voltage:	DC 9-16V
-Rated voltage:	DC 12V
-Operating current:	< 200mA
-Operating temperature:	-20 - +70 degree Celsius (Monitor)
	-30 - +70 degree Celsius (Parking sensor)
-Storage temperature:	-30 - +80 degree Celsius (Monitor)
	-40 - +85 degree Celsius (Parking sensor)

Features

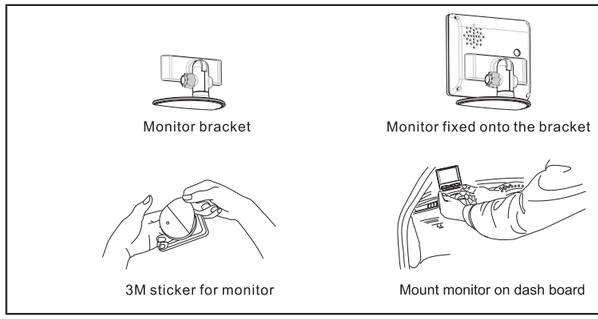
- 3.5" TFT monitor
- 2 video input
- 1 video / 1 audio out
- Auto PAL / NTSC formats
- High sensitivity: 0.3-2.5m detection
- Paintable sensors

Parts Identification

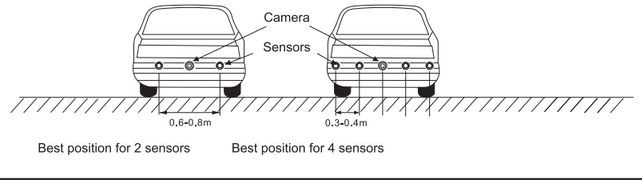


Operation instructions of Keys:
1.Key MENU: popup MENU and select the needed item circularly.
2.Key"+""-": setup the value of each item brightness/contrast/chroma: 0 - 100
3.Key"ESC": exit the menu setup or the system.

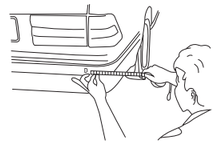
Monitor Installation



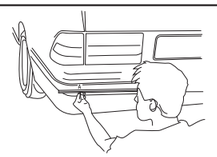
Sensor & Camera Installation Diagram



Drill

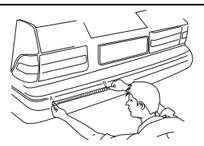


A. Choose suitable drilling position for A & D sensor with relevant mark.

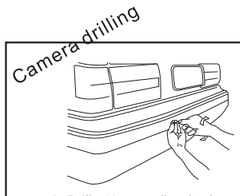


B. To perform the best detecting angle, select the position for A & D sensor with 8-13cm away from the side, 11cm is recommended, and 20° with the side.

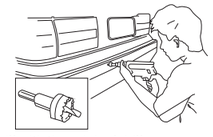
A. Measure the distance between sensor A and D, get the result "L".



B. Mark sensor B & C for every 1/3 "L" interval. E is in the middle of the bumper.

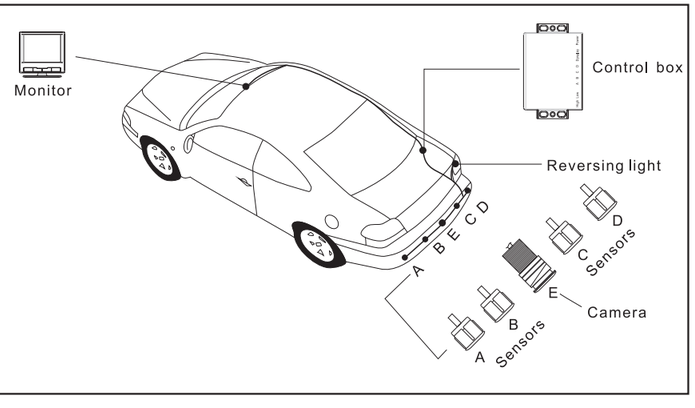


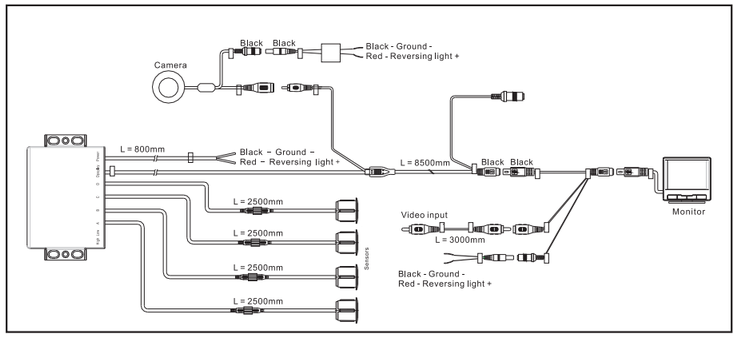
A. Drill with a small awl to locate.



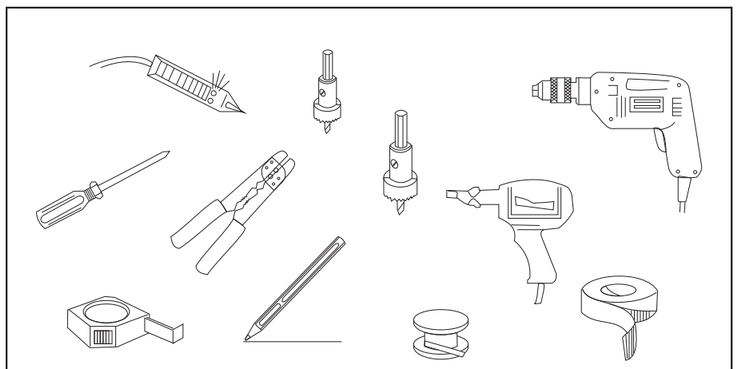
B. Drill with the original drillers.
Ø19mm for sensors, Ø25mm for C01 camera
Ø28mm for camera.

Wiring Diagram





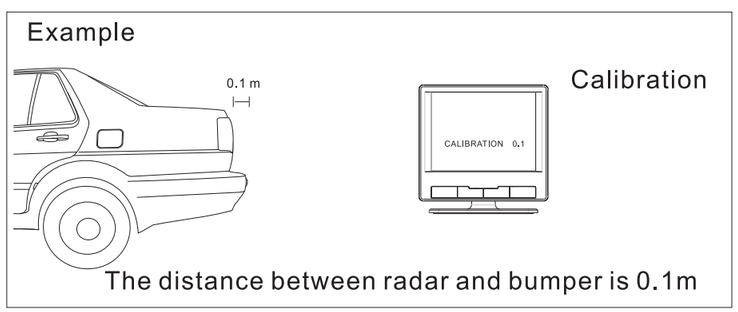
Tools

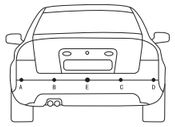


Operation Instruction

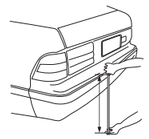
1. Identify the ID
a. Put the ignition key to ACC, to make the TFT display start to work. And put the car in reverse gear, to make the camera and radar start to work.
b. Hold on ESC to match the ID.

2. Calibrate the distance between radars and bumper.
a. Measure the distance between the distance between radars and bumper.
b. Press menu to choose calibration function
c. Press “+” or “-” key to choose the distance. (0.1 to 0.5m)

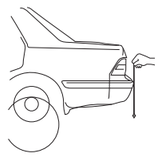




A. 5 drilled holes (A,B,C,D & E) should be under the same line.



B. 0.5-0.8m vertically high to the ground, 0.55m is recommended.



C. Vertical, tidy surface without metal components is preferred.

4. Display Status

Distance	Alert Sound	Display
0.0 ---0.3	Bi.....	8 Red simulative bars
0.4---- .9	Bi...Bi...	6 Yellow simulatiive bars
1.0----1.5	Bi.....Bi.....	4 Green simulative bars
1.6----2.5	Silence	2 Green simulative bars
< 2 5	Silence	White dot

Notes

1. The car must be in power-off during installation.
2. Its performance may be affected in following situation: heavy rain, gravel road, bumpy road sloping road and bush, very cold, hot or moist weather, or the sensor is covered by ice, mud, etc..
3. Switches among ultrasonic and electric wave, DC and AC may effect its performance.
4. The sensors should be installed appropriate loose or tight.
5. Its performance may be effected if the sensors are fixed on metallic bumper.
6. Avoid installing the digital control box in places of great interference, such as vent-pipe, wiring nearby.
7. Test the system to make sure it works normally before using.
8. This system is a reversing aid and the manufacturer will take no responsibility for any accident after the kit is installed.

Warning

1. High voltage is present within the monitor. The opening of the case should be by professionals
2. Do not watch the video while driving unless you are monitoring the rear view camera display.

Special Notice

Occasionally, a few highlights or dark spots may occur on the LCD screen. This is a very commonphenomenon in active matrix display technology, and doesn't necessarily indicate any defects or faults. Never try to repair this device by yourself. In case of any problems, please turn off the display at once and notify our company or authorized dealer. The monitor is a complex device. Any disassembly or modification may lead to damage and void the warrantee.

Maintenance

1. Remove all the cable connections from the monitor before cleaning the device.
2. Use a mild household detergent and clean the unit with a slightly damp,soft cloth. Never use strong solvents such as thinner or benzine, as they might damage the finish of the device.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This symbol is intended to alert the user net to waste electrical and electronic equipment.

You are cautioned that any changes or modifications not expressly approved in this manual could
void your warrantee and neccessitate expensive repairs.

Declaration of conformity
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

CE E8

H-082D

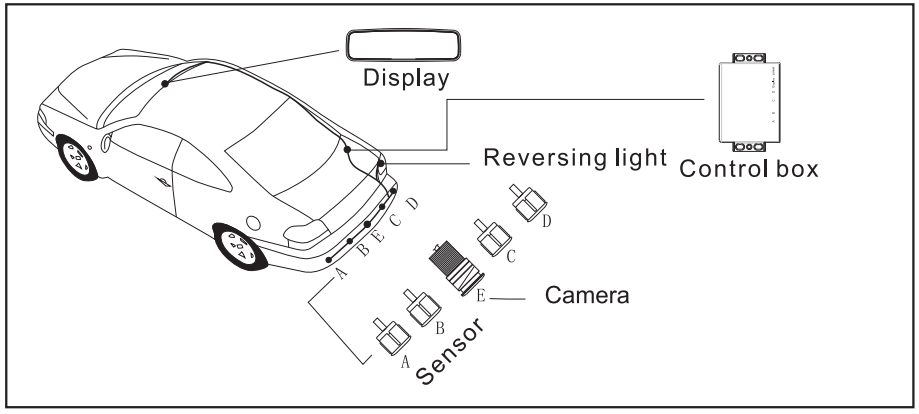
PARKING SENSOR SYSTEM

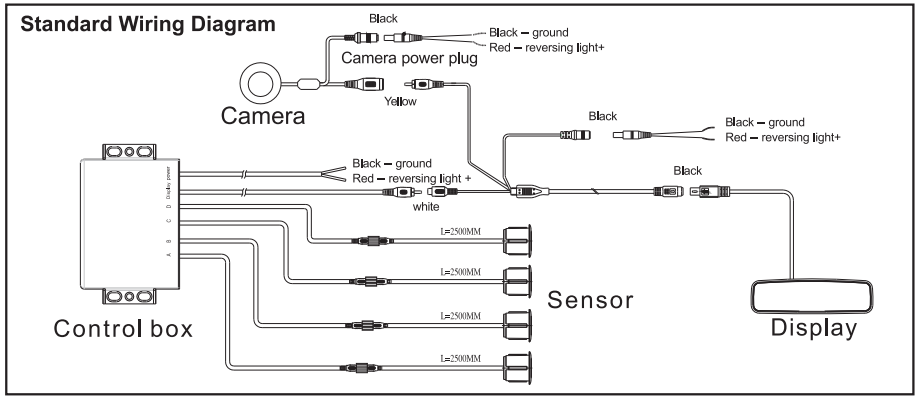
USER'S MANUAL

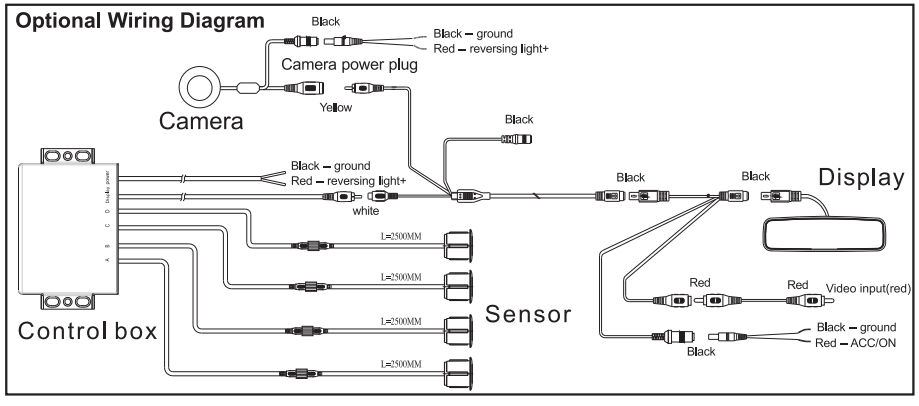
ISO 9001:2000 FM 78496
QS 9000:March 1998 FM 78495

E 8

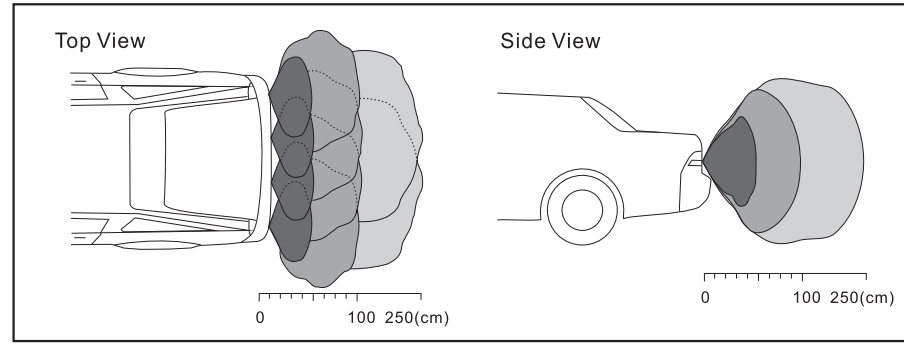
GENERAL INSTALLATION DIAGRAM



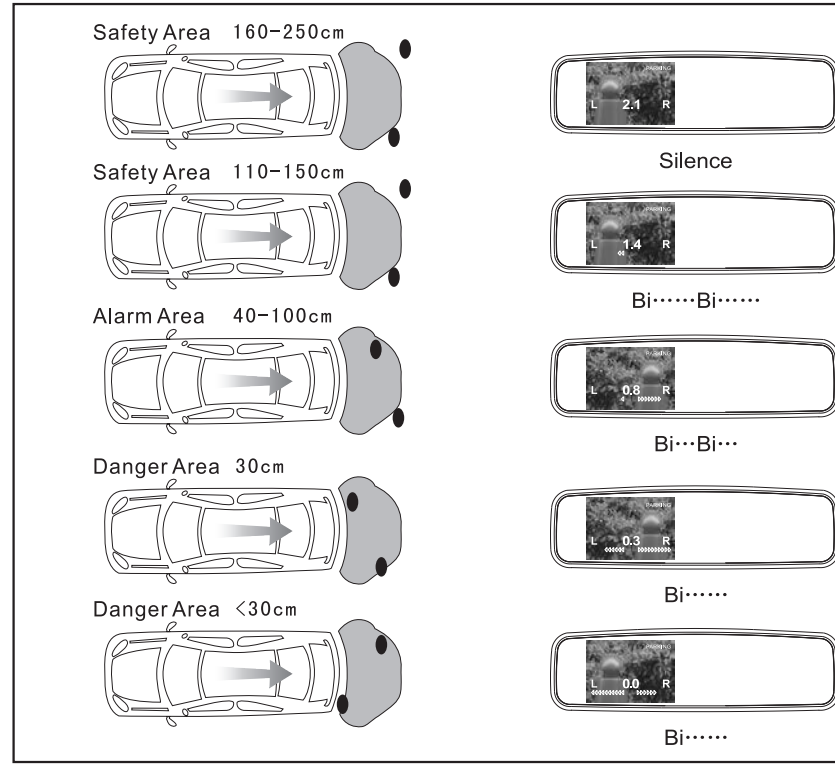




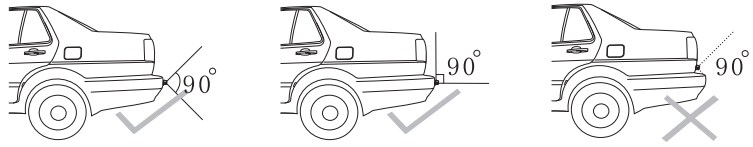
DETECTING RANGE



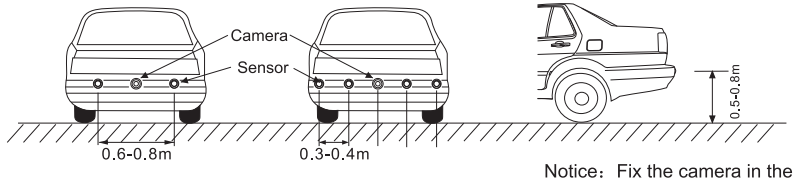
DISPLAY STATUS



SENSOR&CAMERA INSTALLATION DIAGRAM



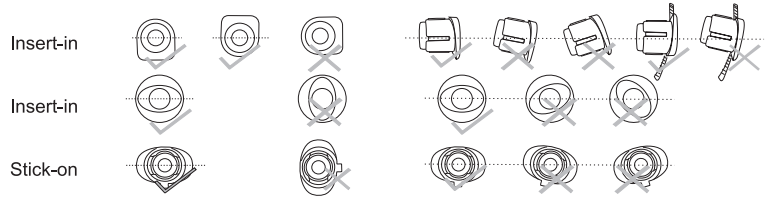
Be sure no other part of vehicle falls into detecting range of sensors.



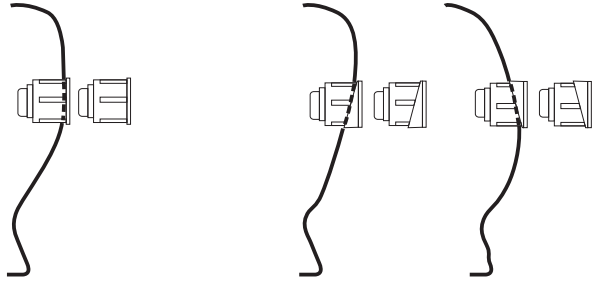
The best position for 2 sensors The best position for 4 sensors

Notice：Fix the camera in the middle of bumper on the same level with sensors.

The direction of sensors

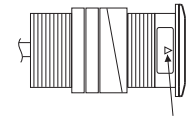


The direction of sensors

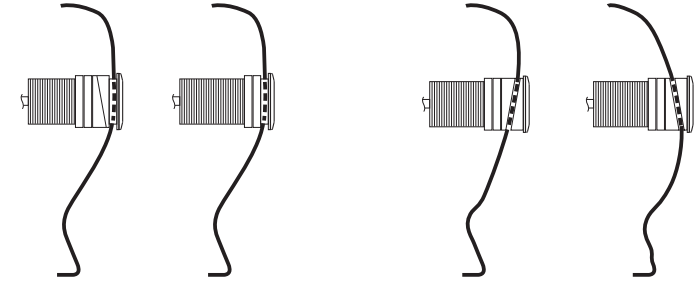


Vertical installation position to the ground Sloping installation position to the ground

The direction of camera

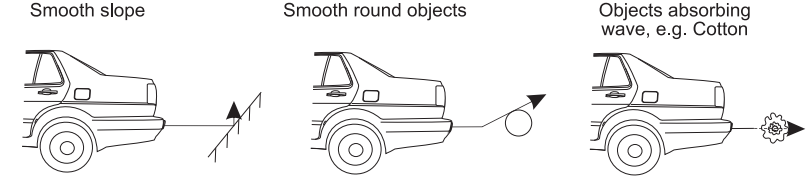


The camera must be fixed with the triangle mark upward



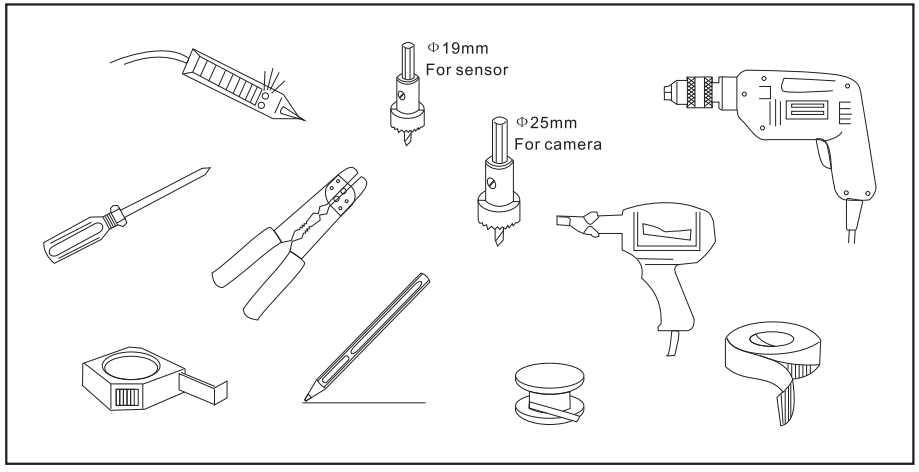
Vertical installation position to the ground Sloping installation position to the ground

Stick-on and insert-in sensors in various shapes for option

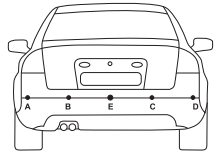


Objects hard to be detected

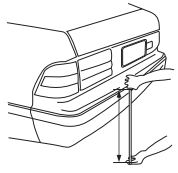
INSTALLATION TOOLS



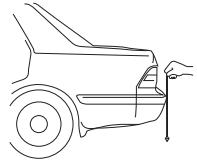
1. Advised position to install the sensors



A. 4 drilled holes (A,B,C,D) and camera hole(E) should be under the same line.

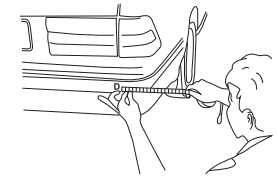


B. 0.5-0.8m vertically high to the ground, 0.55m is recommended.

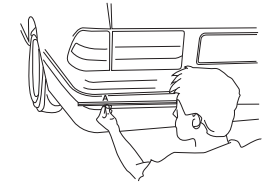


C. Vertical, tidy surface without metal components is preferred.

2. Select drilling position for sensor A & D

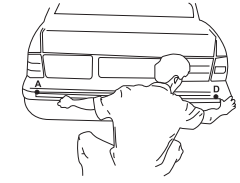


A. Choose suitable drilling position for A & D sensor with relevant mark.

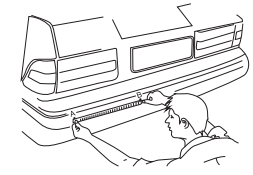


B. To perform the best detecting angle, select the position for A & D sensor with 8-13cm away from the side, 11cm is recommended, 20° with the side.

3. Select drilling position for sensor&cmaera B,C and E

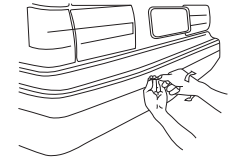


A. Measure the distance between sensor A and D, get the result "L".

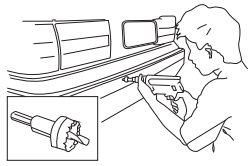


B. Mark sensor B ,C and E for every 1/4 "L" interval. (Camera E should be in the middle of the bumper)

4. Drilling

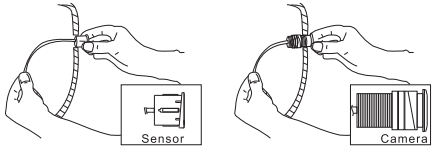


A. Firstly, use a small driller tip to locate.

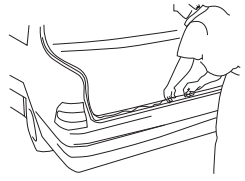


B. Drill with the original driller. (Ømm-١٩ dr-iller for sensor holes,Ømm٢٥ driller for camera hole)

5. Sensor& Camera Installation



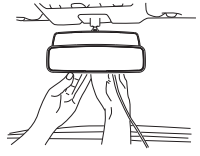
A. Insert the sensors and camera into the holes one by one and tighten them, the sensor with metal slice must be up and down fixed instead of right and left. The camera must be fixed with the triangle mark upward.



B. Hide the wires in good order according to various cars.

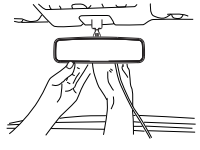
6. Other

Display installation A (For hook type)



clip the rearview mirror on the original one

Display installation B (For ball head type)

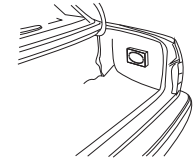


Replace the original rearview mirror

Small ball head matched
Size: Φ15mm~17mm

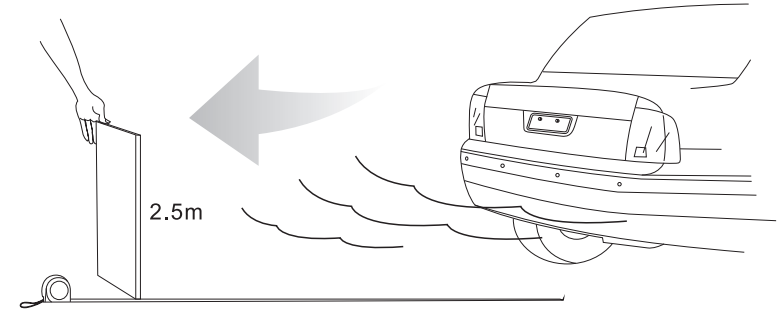
Big ball head matched
Size: Φ18mm~19mm

Control box installation



Locate the control box in the boot, keep safe, cool, dry and away from shake or interference.

7. Sensor Detecting



H-082D PARKING SENSOR SYSTEM

H-082D consists of ultrasonic sensors, camera, display and digital control box. The video signal is inputted into control box via VIN(Video Input)and processed by control box, then outputted to outer connected display with RCA plug via VOUT (Video Output). This system detects the distance between car and back obstruction by ultrasonic sensors fixed at rear bumper of the car, and the display shows the back image via the camera fixed at the rear of car. With the change of alarm sound, figure or simulation bars as well as the image, the driver could judge the distance to avoid accident.

MAIN FEATURES

- 3.5'' TFT Screen in rearview mirror
- One video input, one VCD input
- Automatic function switch
- Digital distance display
- Left/right obstruction display via simulation bars
- Eight-grade simulation bars for distance display
- "BiBi" alarm sound
- Stick-on/ insert-in sensors optional
- Various cameras available

TECHNICAL SPECIFICATIONS

- Rated Voltage: DC 12V
- Operating Range: DC 10~16V
- Rated Current: < 300 mA
- Detecting Distance: 0.2~2.5m
- Ultrasonic Frequency: 40KHz
- Working Temperature: - 30 ~+ 70℃(TFT Working Temperature: -20~ + 70℃)
- Display size: 262*87*41mm

ALARM MODE

Stage	Distance	Awareness	Alarm Sound	Digital Display	Bar
1	>2.5m	Safety Area	Silence	•	No Bar
2	2.5~1.6m	Safety Area	Bi·····Bi·····	2.5~1.6m	2
3	1.5~1.0m	Safety Area	Bi···Bi···	1.5~1.0m	4
4	0.9~0.4m	Alarm Area	Bi·····	0.9~0.4m	6
5	≤ 0.3m	Danger Area	Bi·····	0.3, 0.0m	8

INSTALLATION STEPS

1. Choose right installation position for sensors
2. Select drilling position for sensor A & D
3. Select drilling position for sensor & camera B, C and E
4. Locate the position and drill
5. Install the sensor & camera and hide the wires
6. Install the display
7. Install the control box
8. Connect the whole system according to the General Installation Diagram

INSTALLATION AND TEST

1. Adjust the directions of sensors and axial orientation, neaten the wiring after installing the sensors;
2. Connect the red wire of control box to positive pole of reversing light, Black wire to the negative, red camera power wire to the positive pole of reversing light; (Re: Installation Diagram)
3. Connect video wire following the General Installation Diagram;
4. VCD signal is inputted via red parent wire hole of patch cord;
5. Put the car into reverse gear, the rear camera signal enters control box and will be output via VOUT after superposing characters. Then there should be an image with a white dot on the display, indicating parking sensor entered normal detecting;

Test: a. If the display does not show any image, please check whether the polarity of the power is correct, the cables are correctly connected, the voltage is beyond regulated, or the plug on the display is well connected . b. If the display is in disorder , please exit and put the car into reverse gear again. If the problems still could not be solved, the control box could be deemed defective which needs a entire replacement.

6. some one standing right before the sensors within 1.0m should be detected normally.

Test: a. Insert one sensor into control box, if the horn gives continuous sound and display shows "0.0", please check whether it detected rear outshoot (such as registration mark, spare wheel, bumper etc.), the sensor is fixed too tight or near to some strong interference sources(such as exhaust pipe, other wires); b. If it shows distance figure on display without any obstruction around the sensor, it may detect the ground, please check the position and direction of sensor; c. If the problem still can not be removed, the whole system should be replaced.

Note: a. The display of this system are interchangeable, but the connection between sensor and the digital control box is unique. b. It performs as: when detecting within 0.3m, it shows "0.0" instead of 0.1-0.3 to alert which requires the driver to stop immediately, if within 0.5m, the alarm needs 1 more second to stop. Please pay attention to the above note while testing.

NOTE

1. The car must be in power-off during the installation.
2. Its performance may be affected in following situation: heavy rain, gravel road, bumpy road sloping road and bush, very cold, hot or moist weather, or the sensor is covered by ice, mud, etc..
3. Switches among ultrasonic and electric wave, DC and AC may effect its performance.
4. The sensors should be installed appropriate loose or tight.
5. Its performance may be effected if the sensors are fixed on metallic bumper.
6. Avoid installing the digital control box in places of great interference, such as vent-pipe, wiring nearby.
7. Test the system to make sure it works normally before using.
8. This system is a reversing aid and the manufacturer will take no responsibility for any accident after the kit is installed.