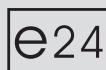


Vision Systems

H-113

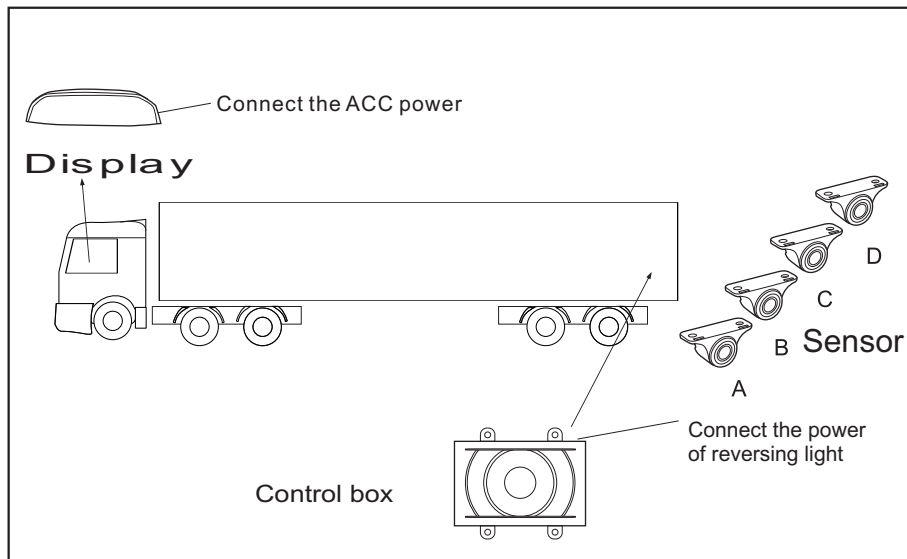
Wireless Parking Sensor
System For Truck

USER'S MANUAL

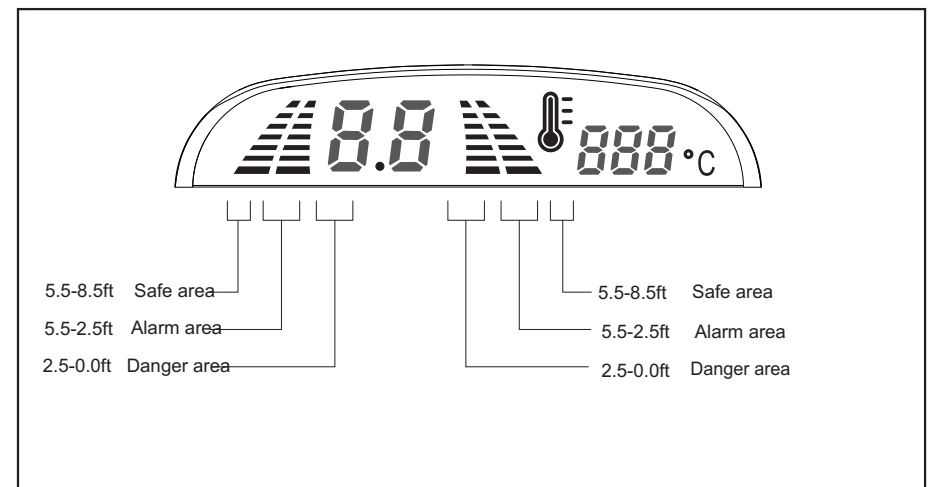


ISO 9001:2000 FM 78496
QS 9000:March 1998 FM 78495
Printed in China

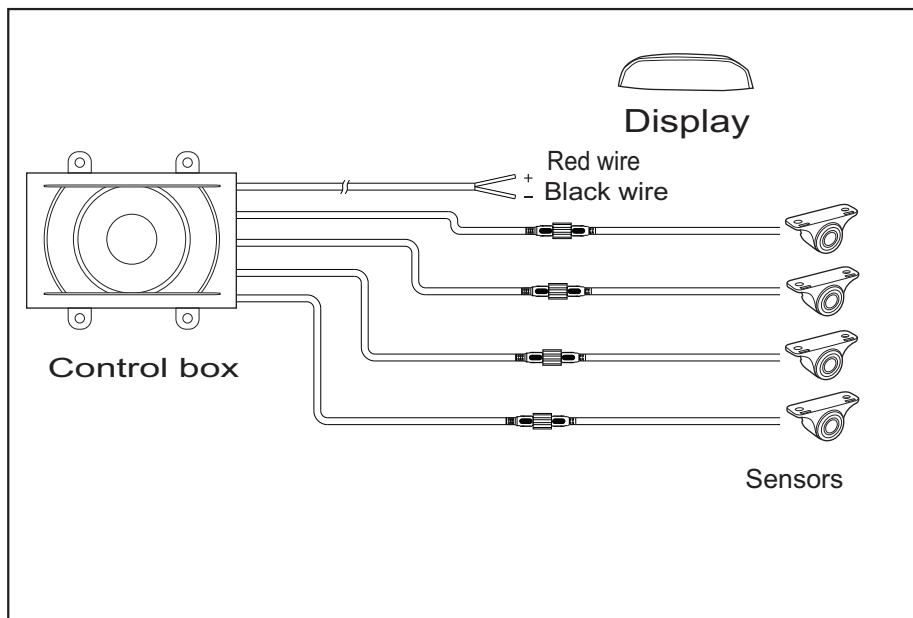
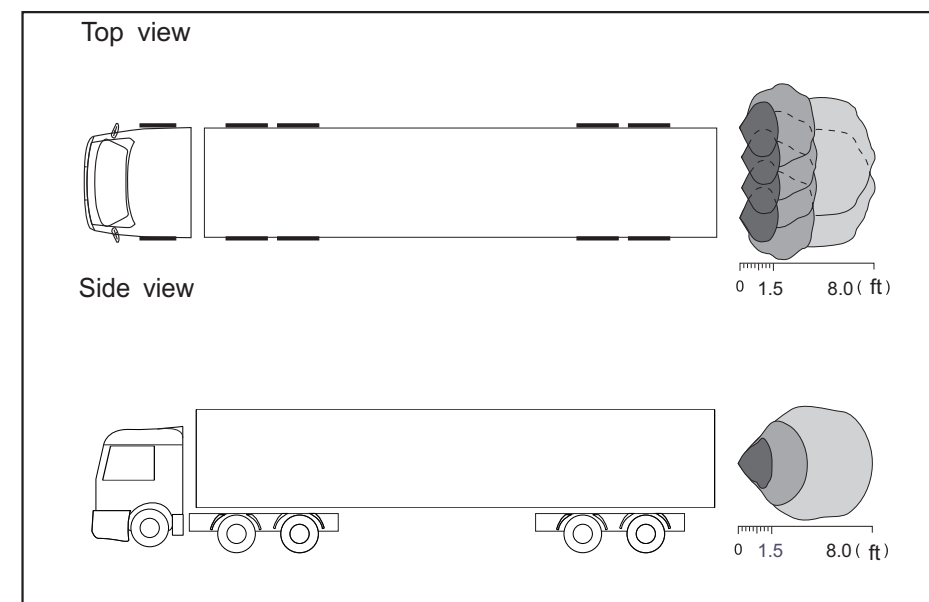
GENERAL INSTALLATION DIAGRAM



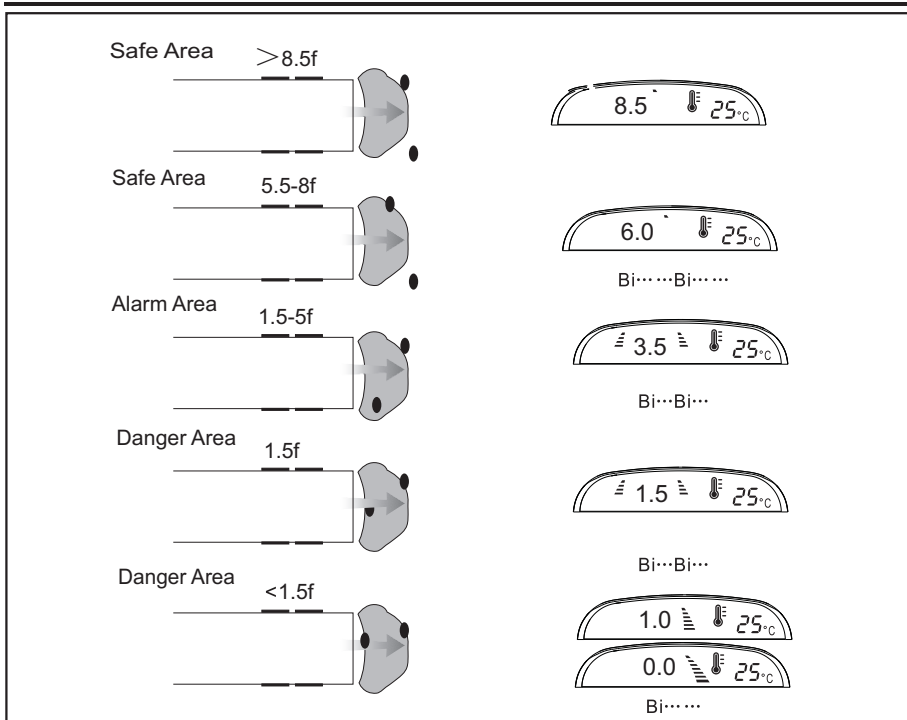
LED DIGITAL DISPLAY



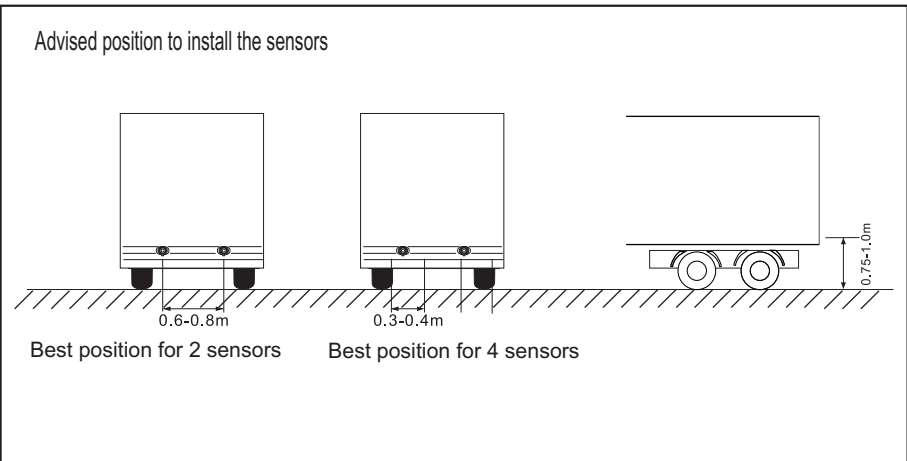
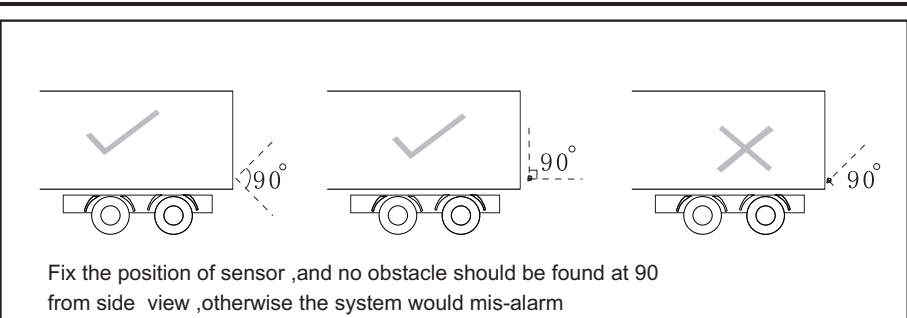
DETECTING RANGE



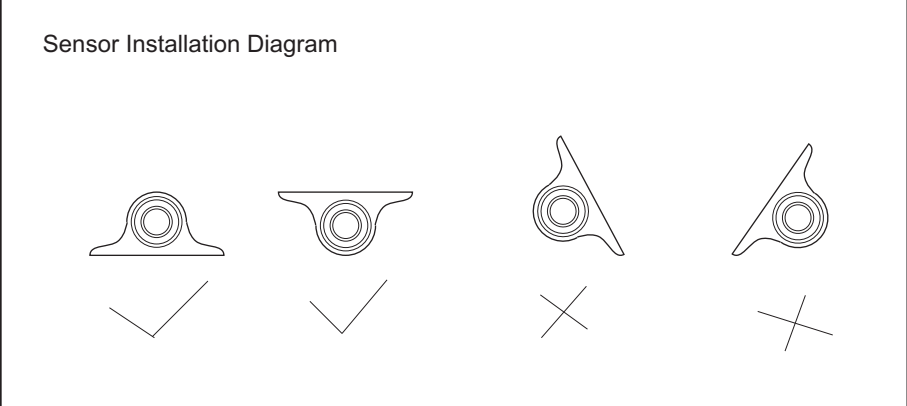
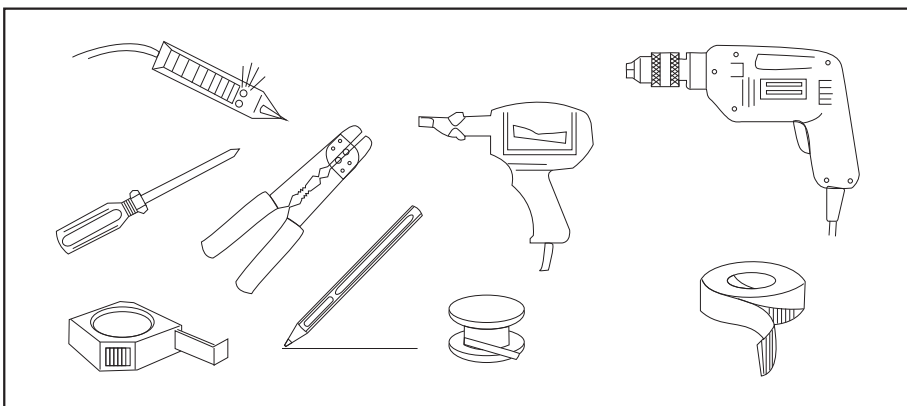
DISPLAY STATUS

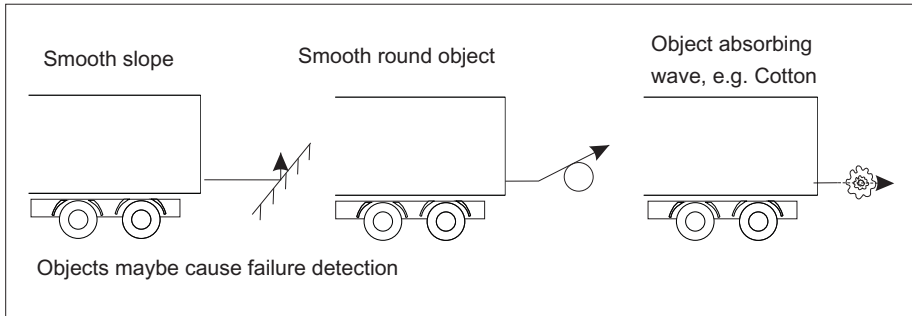


SENSOR INSTALLATION DISGRAM

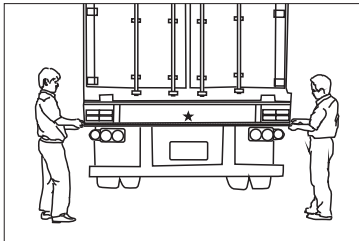


INSTALLATION TOOLS

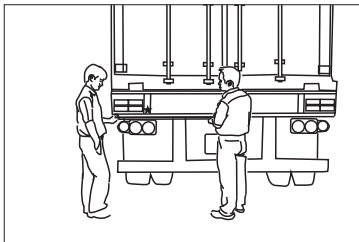




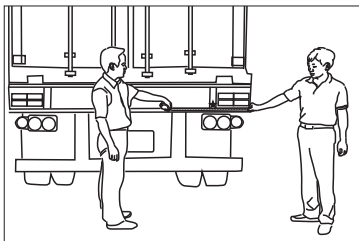
1. ADVISED POSITION TO INSTALL THE SENSORS



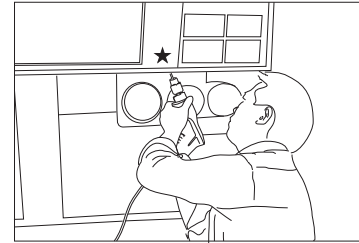
- 1、 4 drilled holes (A,B,C,D) should be under the same line.



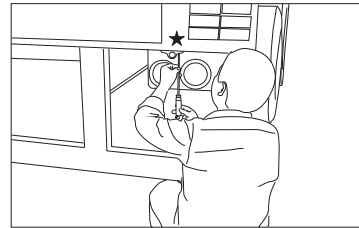
- 2、 Installation height for sensor can be adjusted, 2.5-4.0ft vertically high to the ground



- 3、 Measure the distance 0.5-0.65f on its side for position A&D, between sensor A&D get the result "L", mark sensor B&C for every 1/3 "L" interval.

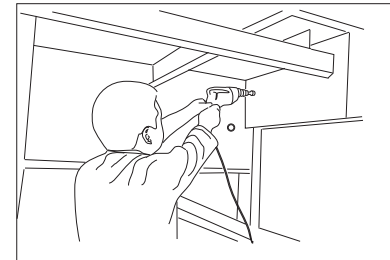


- 4、 Choose suitable drilling position, in the corresponding position with drill for fixed.

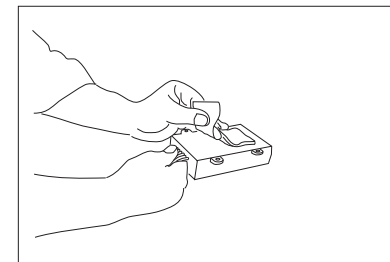


- 5、 Use screws to fix the sensors

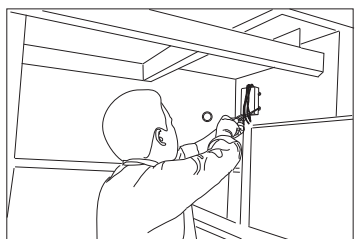
2. CONTROL BOX INSTALLATION AND CONNECTION



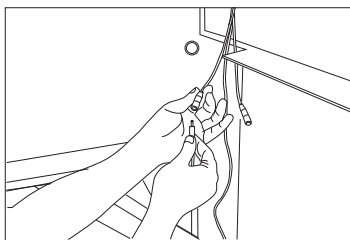
- 1、 Choose suitable control box position, then punching in the corresponding position.



- 2、 3M sticker paste to the back of control box.

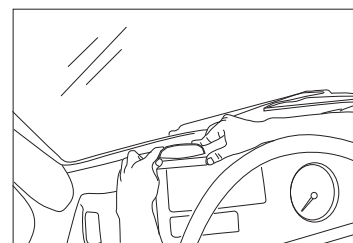


3. Stick the control box on the fixed position, then fixed by screw.

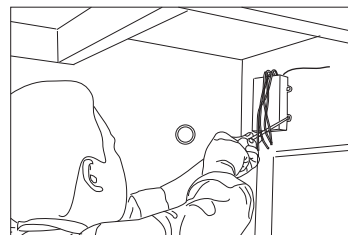


4. Connect sensor and control box

5. DISPLAY INSTALLATION

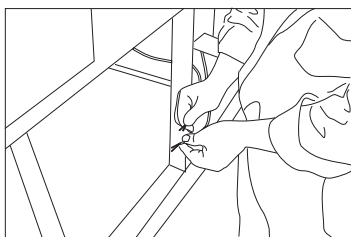


7. Sticker the control box on the dashboard

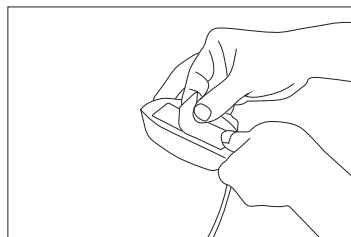


8. Let the power line out ward, acknowledge and transmit signal

4. CONNECTION

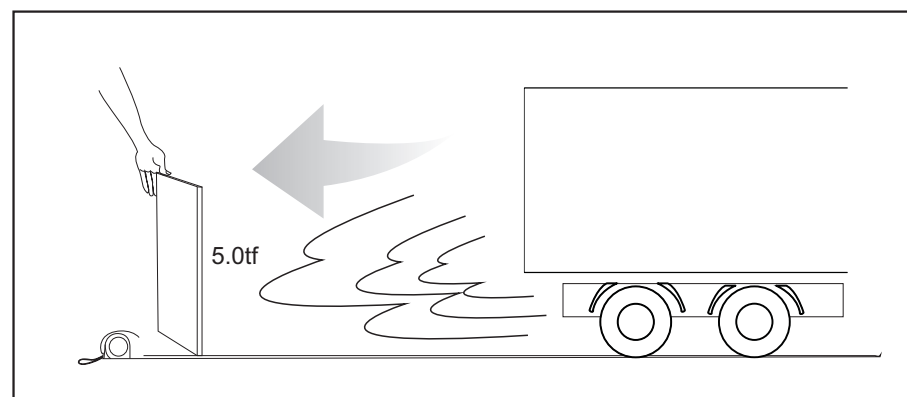


5. Connect the power line of control box and power source of reversing light



6. Switch on the display , after normal test ,then stick 3M stick on the backside of display

6. SENSOR DETECTING



H-113

PARKING SENSOR SYSTEM

H-113 consists of ultrasonic sensors, display and control box. This system detects the distance between the truck and the back obstruction by the ultrasonic sensors. The display will be shown by the digital display, and the driver could judge the distance and avoid the accident

MAIN FEATURES

- Digital LED display
- Direction indicate or if left, middle & right.
- Simulated bars display direction indicator
- BiBi alarm sound
- Wire emitting receive system
- Temperature Display

TECHNICAL SPECIFICATIONS

- Rated voltage: DC 24V
- Operating current: 12V 20-150mA (Be concerned with alarm status)
- Detection distance: 0.5~8.0f
- Ultrasonic frequency: 40KHz
- Operating range: DC 9~32V
- Working temperature: -30~+70°C
- Display size: 93.2*49*22.3mm

ALARM MODE

Stage	Distance	Area	Alarm sound	Digital Display	Alarm Color
1	0.0 ~ 0.5f	Danger area	Bi.....	0.0 ~ 0.5	All LED light up
2	1.0f	Danger area	Bi.....	1.0	3 Green+2 Yellow+ 1 Red
3	1.5 ~ 2.0f	Danger area	Bi...Bi...	1.5 ~ 2.0	3 Green+2 Yellow
4	2.5 ~ 3.0f	Alarm area	Bi....Bi....	2.5 ~ 3.0	3 Green+1 Yellow
5	3.5 ~ 4.0f	Alarm area	Bi.....Bi.....	3.5 ~ 4.0	3 Green
6	4.5 ~ 5.0f	Alarm area	Bi.....Bi.....	4.5 ~ 5.0	3 Green
7	5.5 ~ 8.0f	Safety area	no voice	5.5 ~ 8.0	2 Green
8	8.5 ~ ∞	Safety area	no voice	no display	no display

INSTALLATION STEPS

1. Choose right installation position for sensors
2. Select drilling position for sensor A .B. C.D
3. Select drilling position for sensor
4. Locate the position and drill
5. Install the sensors and hide the wires
6. Install the display
7. Install the control box

INSTALLATION AND TEST

1. After the installation of sensors, adjust the axis and direction to the correct range, then arrange the wire in good order;

2. Connect the power wire of the control box with the reversing light correctly;
3. Connect the control box and display with power, the display has the function of learning ID, in order that the users could place the display or control box if necessary.
4. Put the shift lever to reverse gear, radix point in the display should be lighted, it indicates the system is under detecting status. If not, please check it as following steps. a .If there is not a buzz at the time of power on, please check whether the power wire is connected correctly, whether the voltage is 12V or higher than 9V, whether the display is well connected; b. If the display makes sound like “bi...” continuously, please switch the power off then put the shift lever to reverse gear again, if the problems could not be removed yet, the control unit could be judged to be failed. The whole system should be replaced.
5. Connect one sensor with corresponding plug in control box, it can operate normally if person stands in 2.0f. Check other sensors according to this way. After check, all of sensors would be connected with corresponding plugs.
Test: a. When testing some sensor, if the buzzer gives “Bi...” sound, please check whether some parts of the car or some unwanted objects fall into the detecting range, whether the hole is too small to let the sensor too tight in it, whether the sensors is near to some strong interference sources (such as exhaust pipe, other wires); b. If the alarm sound is hint sound in field (eg. “Bi...Bi”) and display shows distance but there are nothing in front of the sensor, maybe the sensor is detecting the ground, please check the position and direction of the sensor; or the sensor maybe detect some parts of the car; c. If above problem still could not be removed, the whole system should be replaced.

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. Other ultrasonic or electric wave, the instance of DC/AC switch or 24/12v switch maybe affect the performance of the system.
4. The sensors should be installed appropriately loose or tight.
5. Its performance may be affected 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.

FCC Note

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC NOTE :

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.