

ISO 9001:2000 FM 78496  
QS 9000:March 1998

Made in China

# Side Scan System Installation manual

## Package Content

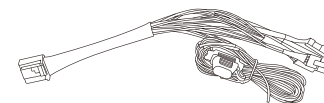
Sensorx4



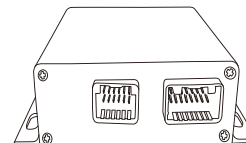
GPSx1



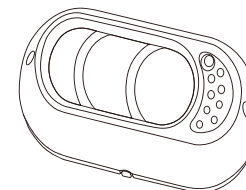
Power Harnessx1



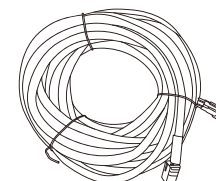
ECUx1



Traffic Light Displayx1



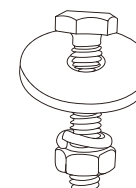
Sensor Cablesx1



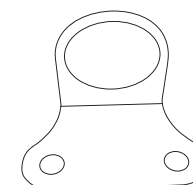
Hot Sawx1



Screwx12



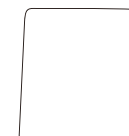
Senor Bracketx4



Cables Tiesx8



3m tape x1



Installation Guide x1

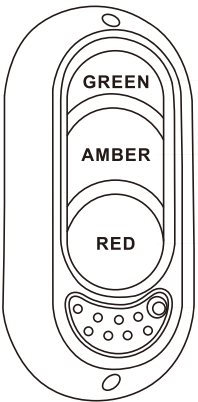


# System Description

Side scan system uses ultrasonic technology, is designed for commercial vehicles to warn the drivers, pedestrians or cyclists of the dangers of the turning vehicle. side scan kit comes with traffic light display sensor system only activates when speed is below 20km/h.

- Technical Specification
- Senor Frequency: 58 Khz
  - Working Voltage: 12-32v
  - Working Current: < 500mA
  - Operating Temperature: - 40 ~ 80°C
  - Sensor Waterproof IP Rating: Ip69
  - Alarm Distance: 1m
  - Horizontal Detection Angle: 120 degree
  - Vertical Detection Angle: 60 degree
  - Number of sensor: up to 4 sensors
  - GPS search time: < 60 seconds

# Warning method



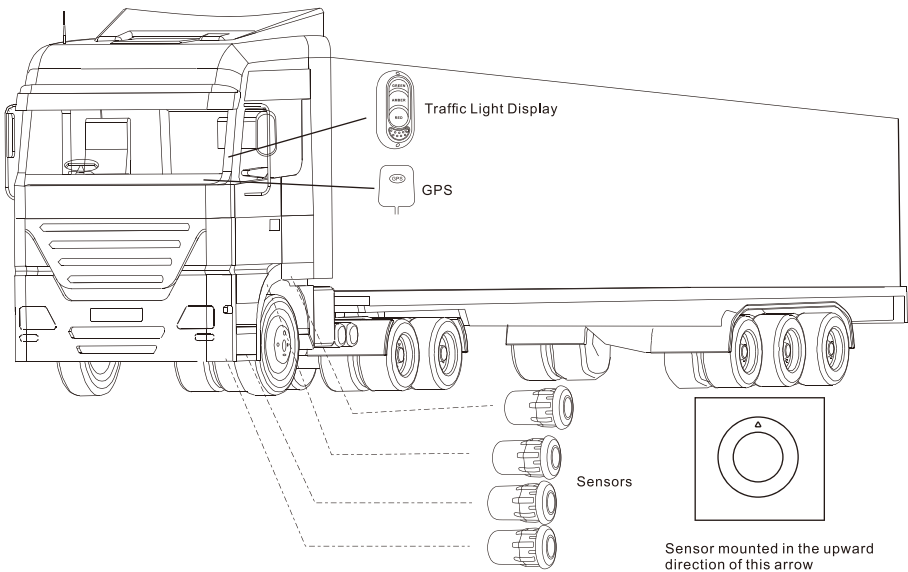
Zone A 0.6-0.8m Green No Sound

Zone B 0.4-0.6m Amber Green No Sound

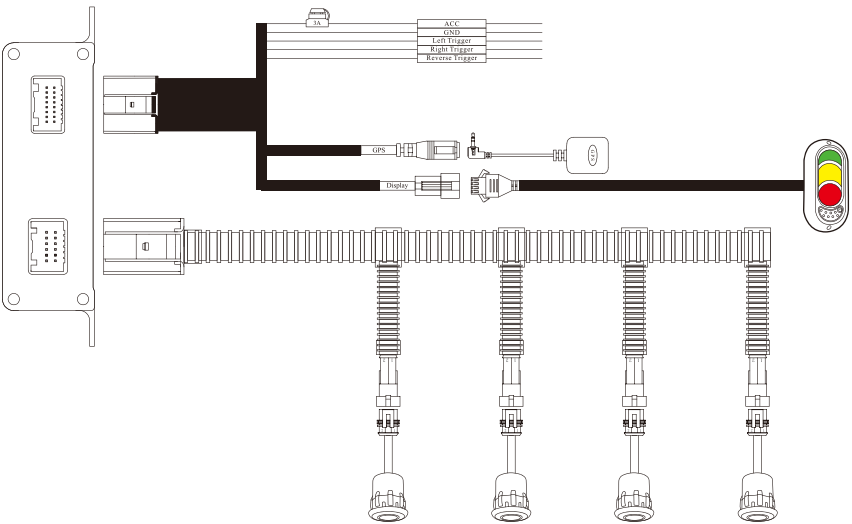
Zone C 0-0.4m Red Amber Green BI BI BI Sound

- Button to adjust the audio alert zone
- Press for one time to turn on/off
  - Press for 3s to adjust alert zone to amber
  - Press for 3s to adjust audio alert zone to red
  - When alert zone is red, display gives red for twice
  - When alert zone is amber, display gives amber for twice
  - When alert zone is green, display gives green for twice

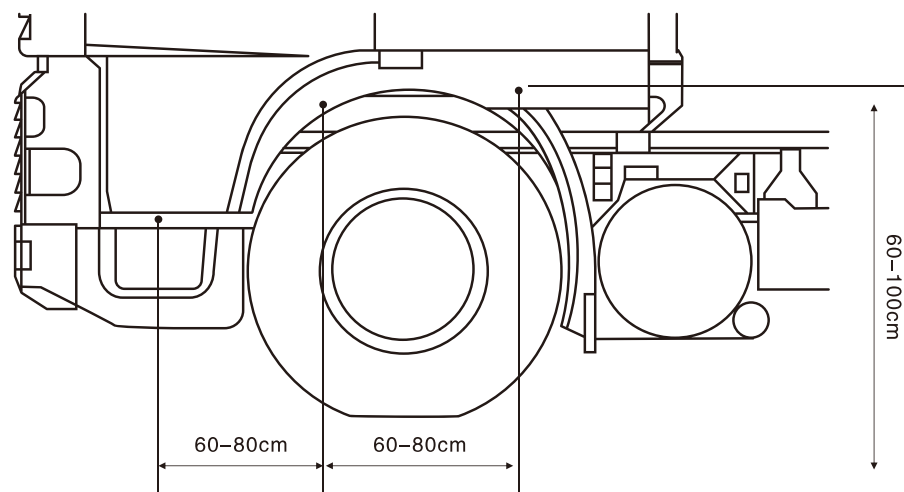
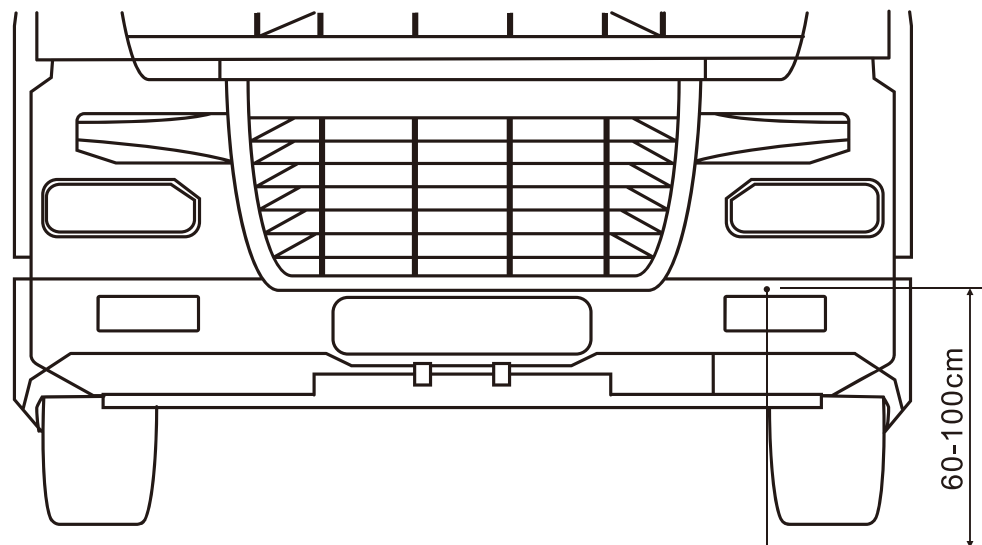
# System Layout



# Wiring Diagram



# Sensor Installation



# Trouble-Shooting Guide

Problem	Solution
Sensor doesn't work	<p>A.Check whether the power supply is connected correctly and ensure that the vehicle turns on ACC</p> <p>B.Whether all connectors are connected correctly and ensure no looseness or poor connection</p>
Sensor does not turn off properly	<p>A.Check if the GPS is connected correctly</p> <p>B. Ensure that the GPS satellite search is normal, and the GPS antenna is not blocked by metal.</p>
False Alarm	<p>A. Check if the power supply voltage is greater than 11V</p> <p>B.the sensor surface is without obstructions, including: water, snow, mud and other objects.</p> <p>C.Ensure sensors are installed at correct direction.,the arrow mark on the sensor should be upward</p>

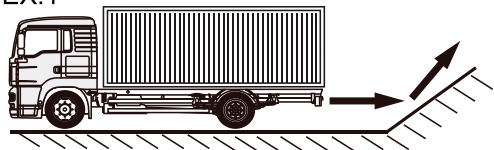


# Trouble-Shooting Guide

Problem	Solution
False Alarm	<p>D: Sensor installation height is not below 60cm (suggested height is 60cm-100cm) If the installation of special vehicles is less than 60cm, it needs to be specified separately, and software upgrade processing can be provided</p> <p>E: Super heavy rain may cause lower frequency false alarms, which are considered acceptable.</p>
External Alarm doesn't work properly	<p>A. Ensure that the time is from 7 a.m. to 11 p.m. and the vehicle speed is not higher than 20km / h</p> <p>B.The left turn trigger of alarm is connected to the left turn lamp of the vehilce</p> <p>C. ensure the GPS is working properly.</p>

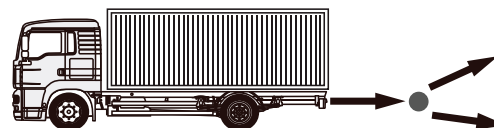
# Special Cases

EX.1



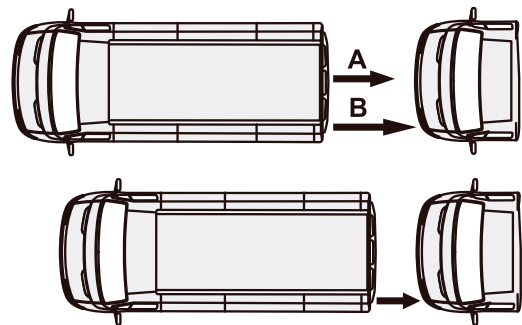
When the car approaches a smooth slope, the slope may not be detected.

EX.2



The sensors may not detect a small or smooth round pole.

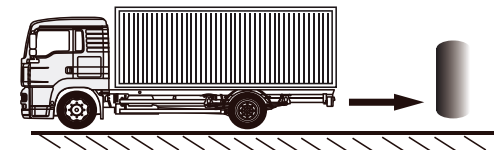
EX.3



Point A will be detected prior to point B, as it comes closer.

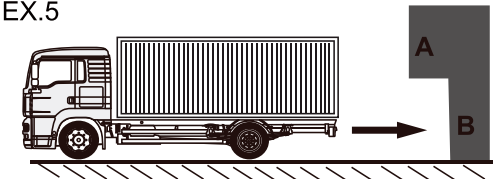
However, point A may fall into the sensors' blind zone, and point B will be misjudged as the closest point.

EX.4



The sensors may not detect any sponge-like material obstacle as the ultrasonic wave was absorbed.

EX.5



Complex situation: point A may not be detected.

## Important Notice

**\*\* Carefully read the instructions and technical specifications.**



The parking sensors are an aid to vehicle reversing operations during parking. Not all objects are detected by the sensor and consequently reversing operations must be performed with the utmost care and attention.



Reversing speed must never exceed 30km/h.



The unit must only be installed by a professional installer.



Any changes or additions made to the system and not expressly shown in this manual shall invalidate the warranty.



Clean the sensors regularly. For example, snow or dust can reduce efficiency.



In the event of washing with high-pressure water jets, the sensors could temporarily lose part of their sensitivity. This will return once the water has completely evaporated.



Do not position the unit, the sensors or the cables near heat sources such as the vehicle engine or exhaust.



Do connect the sensors firstly, and then plug the power connection. If re-connect the sensors, you **MUST** re-start the system before testing.