

DT104

User Manual



866-805-6922

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Note:

- Please read this manual carefully before using the product.
- This system is designed to be an aid and should not replace the need to drive carefully. Under no circumstances will the manufacturer or supplier accept any responsibility or can be held liable for any direct or indirect, incidental or consequential damage, or for injuries resulting from installing or use of this system.
- Guide is not in charge of any extra promise getting from the dealers.
- Whilst every precaution has been taken in the preparation of this publication, Guide does not warrant the accuracy or completeness of the information in this publication and Guide reserves the right to alter specifications without notice.
- To the extent permitted by law, Guide excludes all liability, including negligence for any loss incurred in reliance on the contents in this publication.

Warning:

- Please practice reverse parking using different obstacles to grasp this product's performance.
- Though the minimum detecting distance is 1.5 feet, it is still recommended to keep enough space to stop your car. Considering the cars' inertia, it would be better to stop your car when the distance is shorter than 2 feet.
- The reverse speed should be less than 3 miles/h.

Products

- **Introduction**

The system alerts the driver to the distance of obstacles while reversing. It comprises up to 4 sensors, a central control processor and a display panel. The display panel produces on audible and visual warning.

- **Features**

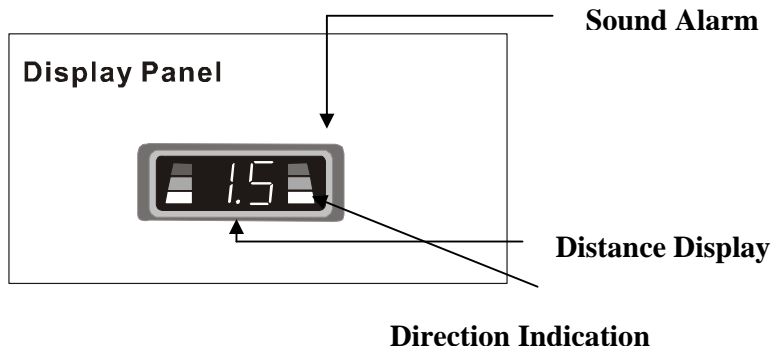
1. Accurate measurement and stable readout
2. High sensitivity, wide detection range and small blind area.
3. Full function, include digital display/sound alarm/zone denotation/direction indication/reverse reminder/power-on self-test
4. The figure of display unit matches instrument panel of cars.
5. Apply to most cars and be easy of installation.

- **Specifications**

1. Operate voltage: DC 12V
2. Power consumption: 3.5W
3. Operate temperature: -20°C ~ +60°C
4. Detection distance: 1.5 ~ 6 feet

Usage

DT404DS optional display unit



- **Power**
The system is automatically activated when you engage reverse gear. Self-check diagnostic program will be firstly done after the system is powered on. Meanwhile the correspondent direction indicators will be on as well. After the above stage, the system is ready now.

- **Display**

1.5 ----- closest distance between sensor and obstacle.



----- Orientation indication

- **Pay Attention**



Reverse speed should be less than 3 miles/h



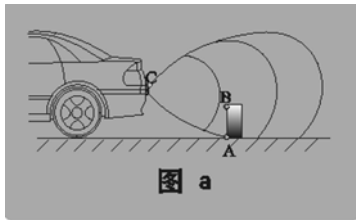
Be in dangerous zone (2 feet)



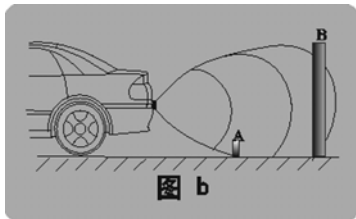
Slender obstacles can be detected at short range only

- **Notes**

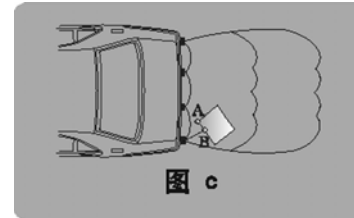
Please check the condition behind your car before reversing. In some cases, the display may be not as same as the reality due to the sensor installed level, obstacle shape, reflection condition and so on. Some examples are given below.



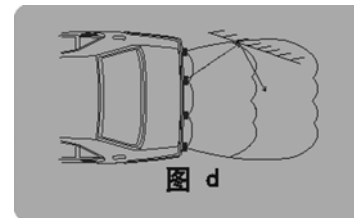
1. As B is under the level of sensors, and A is a strong reflecting point, the distance of CA will be shown first. When the obstacle is within the blind area, both A and B will not be detected. This will occurs when the obstacle is lower than the level of sensors.



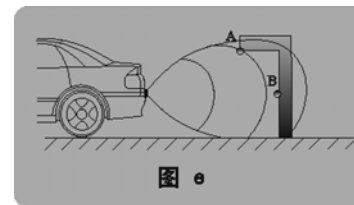
2. Due to obstacle A is pretty short, so during reversing, the distance between sensor and obstacle A shown first. After obstacle A is within blind area, the distance between sensor and obstacle B will be shown.



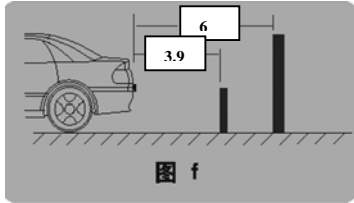
3. Though A is closer to the car than B, the distance from sensor to point B is shown.



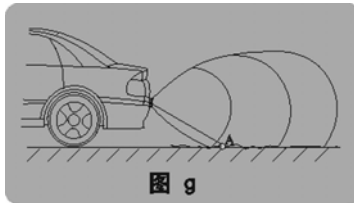
4. In case of small angle of incidence to the obstacle, such as glass or other smooth plane, the obstacle is not detected.



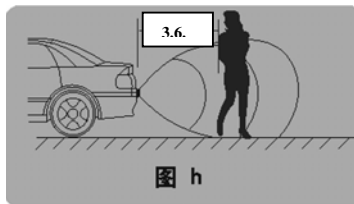
5. B will be detected sooner or later, but A may not be detected forever.



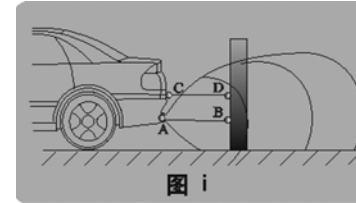
6. The reading may moves up and down between 3.9 feet and 6 feet because the low obstacle A is at the critical detecting point. The reading will be stable after a little bit closer to the obstacle A.



7. On certain conditions, for example, ground might be detected and the distance from sensor to ground displayed.



8. Not all obstacles is detected from 6 feet. for instance, a person is detected from 3.6 feet because of the weak reflection of clothes.



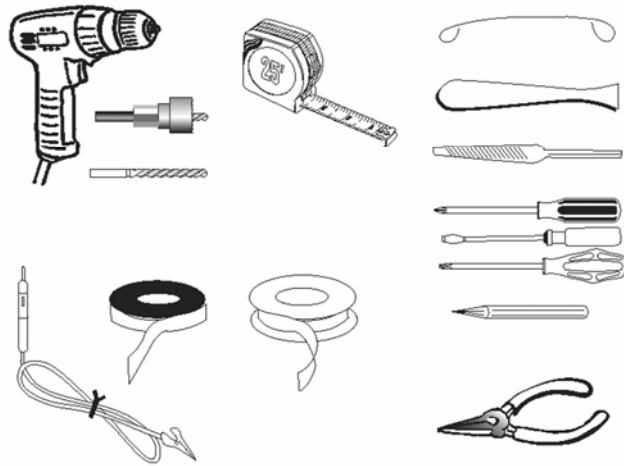
9. The distance form sensor A to B, rather than C to D, is shown.

- **Maintenance**

- (1) Clean up the sand, ice, snow or any other dirt on sensors' surface timely and make the gap on the sensor's centre surface clear.
- (2) Re-paint is allowed on sensors' surface with slight coat. Be attention, thick paint will affect detection.

Installation

- Tools



- System Composition



REVERSE BACKING SYSTEMS

OPTIONAL

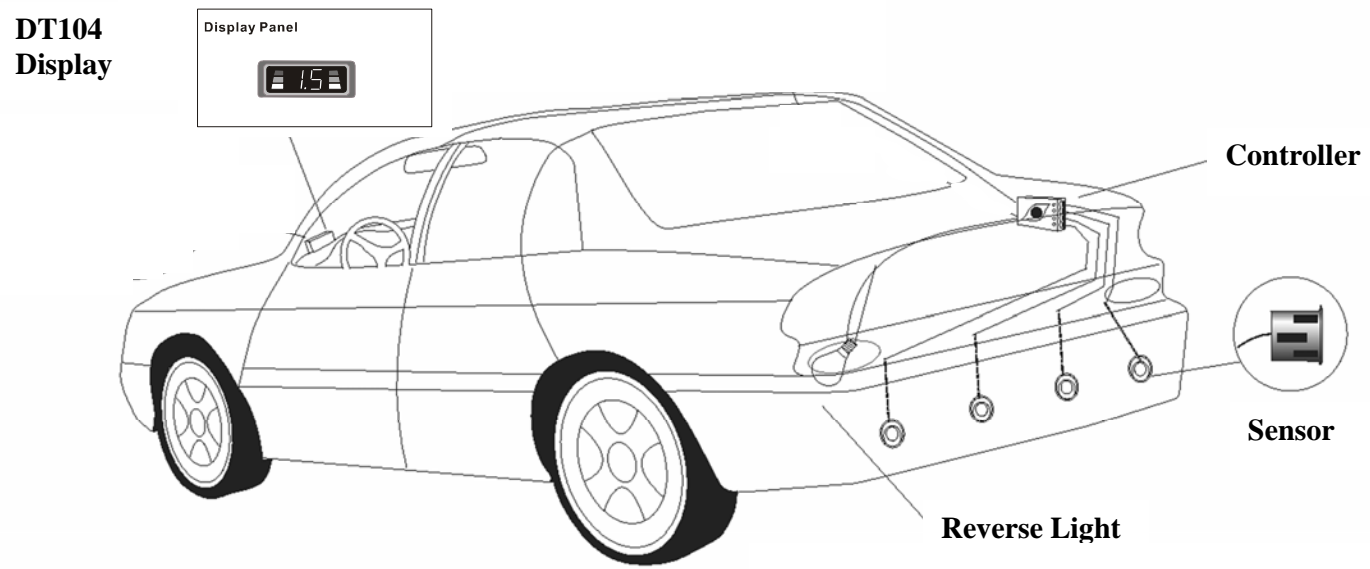


REVERSE BACKING SYSTEMS



DISPLAYS

- **Installation diagram**



- **Installation Steps**

Position of sensors

Interval of sensors

Sensors are installed on the position in accordance with the diagram or actual situation.



Mirror symmetry horizontally



Make holes in bumper with drill bit and smooth them.



Making connections with assistant tools, such as thin metal wires. To be sure the sensor's centre slant



Display unit installation

Controller installation

Connection

Test



Plug display unit and buzzer unit to suitable positions. The cohering surface must be clean.



The position of controller should be appropriate to both sensors and display Unit.

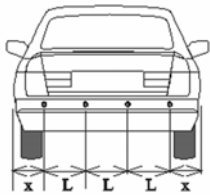


Connect the controller to +12V power supply, sensors and display unit.

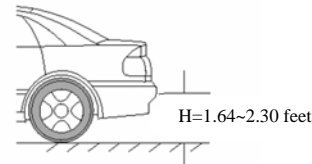


To check if the parking assistance system works properly.

• **Installation of sensors**



- (1) Horizontal position(for DT104ft and DT404ft)
 $X=0.66\sim 0.98$ feet
 a. Installed symmetrically and keep equal distance each other horizontally.
 b. Installed symmetrically only if cannot keep equal distance each other horizontally.



- (2) Vertical level
 a. Installed on the plane that is perpendicular to the ground.
 b. The installation plane should not be a cambered surface.

Drill-holes

wiring

Troubleshoot

Problem	Cause	Remedy
No display When reversing	a. Power is not on b. Display unit is not connected well	Check power connection Check the

	to controller	connection from display unit to controller
Wrong orientation indication	Wrong sensors' order	Change the order of sensors
Constantly display “—p—“	An object within 0.35m is detected constantly	Adjust the sensors' position or angle
Display a fixed distance	a. Ground is detected b. Sensors' direction is wrong	Adjust the sensors' position or direction
Orientation indicator not on	a. the connector is not well plugged in b. The connector is plugged in while power is on	Check if the connector is firmly connected Switch on power again
Works properly as light is off whilst improperly as light is on	The connection of ground wire is wrong	Connect ground wire to the right place.

- **Service Condition**

The warranty is subject to the following conditions:

- (1) Warranty invalidated for any reason other than faulty manufacture or parts.
- (2) Broken seal voids warranty.
- (3) No warranty claim will be validated unless the customer can establish purchase of the Parking Assistant System device from Guide or its authorized retailers.

Service items

- **Warranty**

Guide warrants the Parking Assistant System devices shall be free of any faulty parts or workmanship for a period of 1 years from the purchase date.