

# Car distance detection system user manual

## IMPACT ALERT (IA)

▲ The Impact Alert is the most severe warning issued by the Bendix® Wingman® Advanced™ system. This alert indicates that a collision with the detected forward vehicle is likely and the driver must immediately act to potentially avoid, or lessen the severity of, a collision.

The Impact Alert is ready to alert the driver whenever the vehicle is moving above 15 mph.

When activated, the IA will sound and a visual message/icon typically appears on the dash screen or Bendix® Driver Interface Unit (DIU) display. The actual sound/display method varies by vehicle manufacturer.

NOTE: The Impact Alert is typically accompanied by automatic brake interventions. The Wingman Advanced system will apply up to two-thirds of your vehicle's braking capacity. The driver must apply additional braking, when necessary, to maintain a safe distance from the vehicle ahead.



FIGURE 7 - EXAMPLE OF IMPACT ALERT ICON



FIGURE 8 - IMPACT ALERT TEXT AND LIGHT PATTERN AS SEEN ON THE BENDIX® DIU

## FOLLOWING DISTANCE ALERT (FDA)

▲ The Following Distance Alert (FDA) provides both audible and visual alerts whenever the time between your vehicle and the detected forward vehicle ahead is less than one and a half (1.5) seconds\* and decreasing. Once the audible alert is given, the driver should increase the distance between his/her vehicle and the vehicle ahead until the audible alert stops.

The FDA is ready to alert the driver whenever the vehicle is moving above five (5) mph. If the following distance continues to decrease, the driver will hear more rapid audible alerts. When the FDA reaches its highest level, typically a red LED also illuminates on the instrument cluster. The FDA may be accompanied by a visual alert.

\* 1.5 seconds is the system default and may vary by fleet/OEM.



FIGURE 9 - DRIVER INTERFACE UNIT (DIU) SHOWING EXAMPLES OF FOLLOWING DISTANCE ALERTS WITH PROGRESSIVELY FASTER AUDIBLE ALERTS

Above: Examples of other vehicle manufacturer's displays.

## STATIONARY OBJECT ALERT (SOA)

▲ Stationary Object Alert (SOA) - The Bendix® Wingman® Advanced™ system will give up to a three (3) second alert to the driver when approaching a detected, sizable, metallic (radar-reflective), stationary object in your lane of travel. This alert indicates that a collision with a stationary object is likely and the driver must immediately act to potentially avoid, or lessen the severity of, a collision.

The SOA is ready to alert the driver whenever the vehicle is moving above ten (10) mph.

**File Name:** Car distance detection system user manual.pdf

**Size:** 1848 KB

**Type:** PDF, ePub, eBook

**Category:** Book

**Uploaded:** 29 May 2019, 20:44 PM

**Rating:** 4.6/5 from 805 votes.

**Download Now!**

Please check the box below to proceed.



I'm not a robot



reCAPTCHA  
Privacy - Terms

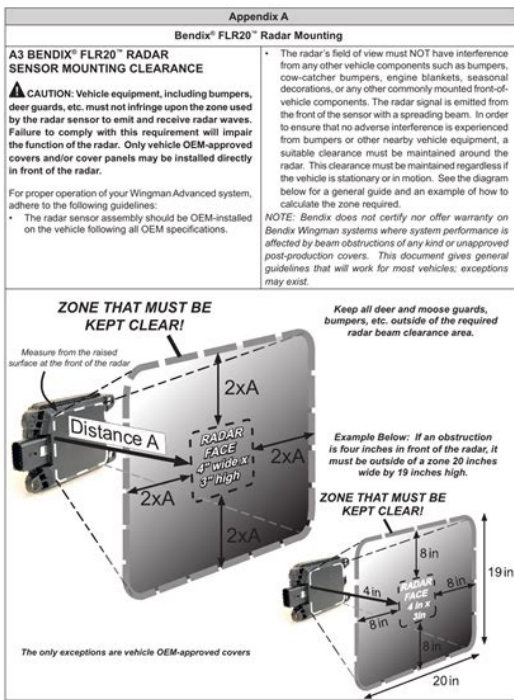
## Book Descriptions:

# Car distance detection system user manual



Our payment security system encrypts your information during transmission. We don't share your credit card details with thirdparty sellers, and we don't sell your information to others. To hide it, choose Ship in Amazon packaging at checkout. Currently, you'll save 5% on your Sep 23 delivery. Currently, you'll save 5% on your Sep 23 delivery. Used Like New Packaging will be damaged. Something we hope you'll especially enjoy FBA items qualify for FREE Shipping and Amazon Prime. Learn more about the program. Please try again. Please try again. With a drill head, convenient to drill hole on the bumper of the car. Prevent future dangerous and costly collisions. In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. Full content visible, double tap to read brief content. Here's how restrictions apply Add both to Cart Register a free business account Please try your search again later. Size 4 Sensors Size 4 Sensors It auto detects the distance between the car and back obstruction through the sensors installed at the rear bumper of the car. It helps to avoid the dangerous and costly collisions that occur so easily behind the wheel. Page 1 of 1 Start over Page 1 of 1 In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. To calculate the overall star rating and percentage breakdown by star, we don't use a simple average. Instead, our system considers things like how recent a review is and if the reviewer bought the item on Amazon. It also analyzes reviews to verify trustworthiness. Please try again later. Guillermo G. 3.0 out of 5 stars Had to buy a special 22mm saw orange one and adaptor that cost me an extra 15 bucks. For a full size pickup truck, the length of the cables its just really tight, I put the screen on my dashboards left side and had to put the brain inside a latex glove near the spare tire. <http://arvikabc.com/images/uploadedimages/dyson-dc19-instruction-manual-download.xml>

- **car distance detection system user manual, 1.0, car distance detection system user manual.**



Appendix A

33

, I gave it 3 stars because of that, but other than that it works great! No button to turn it off. No safety riley. Sensors work randomly and more as a motion sensor than the way oem reverse sensor would. It's a cheap crap. Do not buy. I installed this in my 2006 Honda Pilot to help with the tight parking here in Germany. The instructions didnt give much detail on placement of the sensors so when the system was beeping randomly. I though I may have installed them upside down there is a small brow on the sensors which may effect the return signal or block ground clutter. Position didnt matter, the thing kept beeping at random. I ended up opening the dash unit and cutting the ground wire to the buzzer no volume control for it so I could at least have some awareness during parking but when it rains the sensors go bananas and it becomes a distracting lightshow. My hopes are I can find better system that will fit the holes I drilling into my car. Do Not Buy. Very responsive. I had no problem getting through the bumper and fishing the cables through the trunk. Very easy to set up and worth the cost I have personally I talked myself this product on a Prius and a Corolla. For both cars you need to take off the tail light and determine which one the backup light is. After that you need to determine which one the "hot" wire is. Other than that, the installation process is not that difficult. You may want to watch a couple of videos on YouTube on how to install this product. The angle that these sensors operate at is very narrow. This creates blind spots in thier ability to detect objects. We don't share your credit card details with thirdparty sellers, and we don't sell your information to others. To hide it, choose Ship in Amazon packaging at checkout. Please try again. Please try again. Beep sound warning will be more frequent when distance is getting closer. Prevent future dangerous and costly collisions. Perfectly fit your car with universal hole saw. [http://www.prawo.bielsko.pl/\\_upload/dyson-dc19-allergy-manual.xml](http://www.prawo.bielsko.pl/_upload/dyson-dc19-allergy-manual.xml)

#### IMPACT ALERT (IA)

**▲ The Impact Alert is the most severe warning issued by the Bendix® Wingman® Advanced™ system. This alert indicates that a collision with the detected forward vehicle is likely and the driver must immediately act to potentially avoid, or lessen the severity of, a collision. The Impact Alert is ready to alert the driver whenever the vehicle is moving above 15 mph.**

When activated, the IA will sound and a visual message/icon typically appears on the dash screen or Bendix® Driver Interface Unit (DIU) display. The actual sound/display method varies by vehicle manufacturer.

**NOTE:** The Impact Alert is typically accompanied by automatic brake interventions. The Wingman Advanced system will apply up to two-thirds of your vehicle's braking capacity. The driver must apply additional braking, when necessary, to maintain a safe distance from the vehicle ahead.

See Figure 7 for an example of an Impact Alert Icon.



FIGURE 7 - EXAMPLE OF IMPACT ALERT ICON



FIGURE 8 - IMPACT ALERT TEXT AND LIGHT PATTERN AS SEEN ON THE BENDIX® DIU

#### FOLLOWING DISTANCE ALERT (FDA)

**▲ The Following Distance Alert (FDA) provides both audible and visual alerts whenever the time between your vehicle and the detected forward vehicle ahead is less than one and a half (1.5) seconds\* and decreasing. Once the audible alert is given, the driver should increase the distance between his/her vehicle and the vehicle ahead until the audible alert stops.**

The FDA is ready to alert the driver whenever the vehicle is moving above five (5) mph. If the following distance continues to decrease, the driver will hear more rapid audible alerts. When the FDA reaches its highest level, typically a red LED also illuminates on the instrument cluster. The FDA may be accompanied by a visual alert.

\* 1.5 seconds is the system default and may vary by fleet/OEM.



FIGURE 9 - DRIVER INTERFACE UNIT (DIU) SHOWING EXAMPLES OF FOLLOWING DISTANCE ALERTS WITH PROGRESSIVELY FASTER AUDIBLE ALERTS.



Above: Examples of other vehicle manufacturer's displays.

FIGURE 10 - FOLLOWING DISTANCE ALERT

#### STATIONARY OBJECT ALERT (SOA)

**▲ Stationary Object Alert (SOA) – The Bendix® Wingman® Advanced™ system will give up to a three (3) second alert to the driver when approaching a detected, sizable, metallic (radar-reflective), stationary object in your lane of travel. This alert indicates that a collision with a stationary object is likely and the driver must immediately act to potentially avoid, or lessen the severity of, a collision.**

The SOA is ready to alert the driver whenever the vehicle is moving above ten (10) mph.

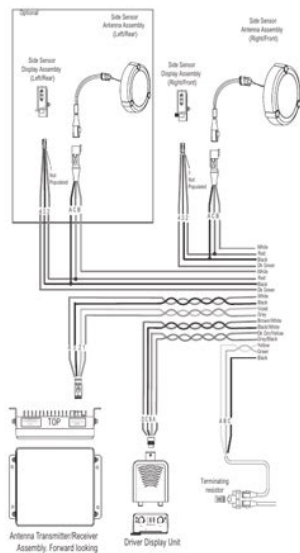
With a drill head, convenient to drill hole on the bumper of the car. In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. Page 1 of 1 Start over Page 1 of 1 In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. Heres how restrictions apply Add both to Cart Register a free business account Please try your search again later. Size 8 Sensors Size 8 Sensors In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. To calculate the overall star rating and percentage breakdown by star, we don't use a simple average. Mike Davidson 4.0 out of 5 stars Note In service for 1 day. 1. All sensors work. But connections to G H do not. You can see a difference in drawing provided. 2. Beeper it extremely loud. No volume control. I had to remove the medal plate in the monitor unit. Now silent. 3. The hole saw is made only for plastic. Cuts perfect hole. 4. Sensors are somewhat large. Bigger then currently installed newer cars. About an inch. 5. Short cables are very short. Had to extend length by splicing. They work great and are easy to install. My other car came with sensors and don't have a display for the meter where it beeps anywhere on my dash. So instead of going through the hassle of routing the "beeper" to the front dash, I left it in the back 2004 4Runner. It's loud when it beeps so I don't need to see the display, I just listen to it. If your number is metal, go get the right drill bit for your car. This drill bit is made for plastic bumpers. Don't use the drill bit on a metal bumper then give a bad review bc it didn't drill through. Looks and works great My vehicle is in showroom condition so I didnt want it to look like an after market add on. I was most concerned with the monitor unit being too big and cheap looking.

My concerns were not valid though and after the install it looks and works like a Mercedes factory Install. However, the installation was a pain, due mainly to the wires being too short and access to feed and hide the wires, although the latter point is due to the quality of construction of a Mercedes more than anything else !! Took about 1.5 days to finish and test the installation but the result looks and works great. They should add a function that allows you to decrease the volume, or change the tone of the buzzer. Tiene el timbre MUY ALTO Annoyed so much Sorry, we failed to record your vote. Please try again Sorry, we failed to record your vote. Please try again. The detection ranges of the sensors are limited, therefore, driving the vehicle while relying only on the system may cause an accident. Always confirm the safety around your vehicle visually when driving. It may affect the

system operation. Obstructions that are lower than the bumper or thin which may have been initially detected may no longer be detected as the vehicle approaches more closely to the obstruction. If the sensors are deviated, they cannot detect obstructions. Consult an expert repairer, we recommend an Authorised Mazda Repairer. Consult an expert repairer, we recommend an Authorised Mazda Repairer. Remove any foreign material from the sensor area. Always confirm the safety around your vehicle visually when driving. It may affect the system operation. Obstructions that are lower than the bumper or thin which may have been initially detected may no longer be detected as the vehicle approaches more closely to the obstruction. If the sensors are deviated, they cannot detect obstructions. Remove any foreign material from the sensor area. My bumper is often scratched or dented and it costs a small fortune to repair it. In addition, im concerned that fitting sensors to my bumper will have a negative impact on the appearance of my car.

Appendix

Bendix™ VORAD® System Wiring Diagram



A-1

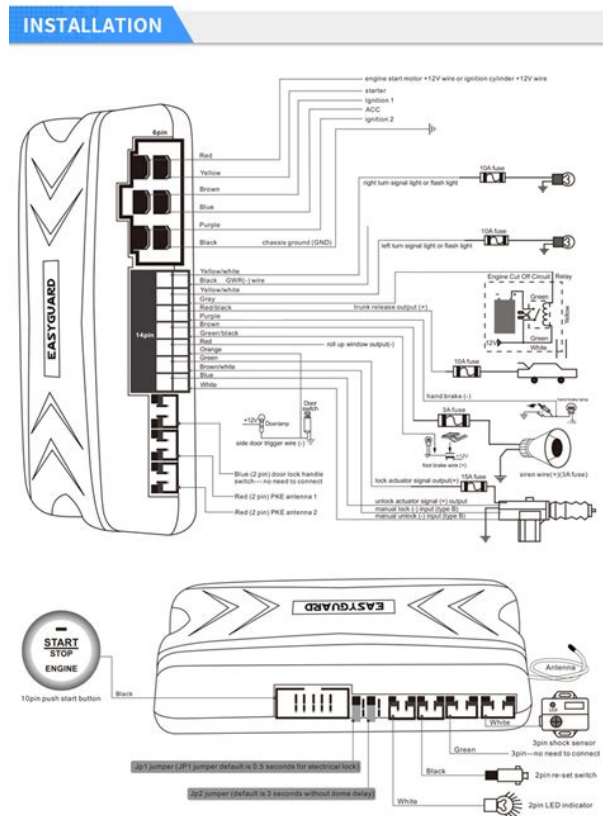
<http://www.raumboerse-luzern.ch/mieten/bosch-psb-1000-rca-manual>

It is intermittent at first and becomes continuous when the vehicle is within 30 cm of the obstacle. Help to prevent dangerous and costly collisions. Help to provide increased safety for passengers, pedestrians, and family members who happen to be around the moving vehicle. Detect small children and low walls as well. Antifreeze and rainproof. Easy to install. A saw drill head included. This system will help to prevent dangerous and costly collisions that occur so easily when behind the wheel. It also helps provide increased safety for passengers, pedestrians, and family members who happen to be around the moving vehicle. Detect small children and low walls as well. Be the first to review this product! Robert Kimathi The Review Team 19 Products 9 Hours 10 Reviews How We Decided The Drive and its partners may earn a commission if you purchase a product through one of our links. Read more. PUBLISHED ON November 27, 2019 Parking lots are always crowded, and maneuvering through one can be very tricky. Lucky for you, there is a gadget that can make the parking process more comfortable a parking sensor. This device measures the distance between your car and the obstacle. It then sends you a notification when you are about to hit the obstacle. Here are three of the best parking sensors on the market. It ensures secure parking by making a beeping sound warning and displaying your distance from an object, thus preventing collisions. Pros



Pros Beep sound becomes more frequent as the distance to the object gets smaller. It is easy to install. It has a multicolor selection of eight weatherproof sensors. It also comes with a three-year warranty. Cons Its detection range is too small, so if you reverse at high speeds you may hit an obstacle. The beeping sound is loud and annoying. Also, the cables included are not long enough for some vehicles.

<https://havenhospicenj.com/images/c540-service-manual.pdf>



English user manual (electronic version) is upon request.

Best Overall EKYLIN Parking Sensors With Eight Sensors Check Latest Price Best Value SINOVCLE Car LED Parking Sensor Kit Check Latest Price Summary Summary This kit consists of four sensors, a power cord, LED display, and control box. The LED has three colors. Advanced chipset. Easy installation and economical price. Pros Pros The three-color LED green, yellow, red display indicates the distance between the vehicle and the obstacle. The chipset provides sensitive coverage and detection. You install the four sensors on the rear bumper. Installation is easy using the detailed instructions provided. Cons Cons Only detects obstacles at the rear of the vehicle. The beeping sound may be too harsh for some ears. Best Value SINOVCLE Car LED Parking Sensor Kit Check Latest Price Honorable Mention Zone Tech Car Reverse Backup Radar System Check Latest Price Summary Summary This is another great parking sensor system. It comes with four sensors to install on the rear bumper, a CPU, and an advanced chipset for enhanced obstacle detection. It is equipped with a three-color LED display green, red, and yellow to accurately show the distance between the car and the obstacle. Pros Pros This radar system can detect children and small walls. It is weatherproof. The system is also protected from overheating or overloading. What's more, it is durable. Cons Cons The included wire is too short for installing the system in a long truck. Its beep warning may be too loud. The colors may not be a perfect distance indicator. Honorable Mention Zone Tech Car Reverse Backup Radar System Check Latest Price Written by Robert Kimathi

Published November 27, 2019 Parking lots are always crowded, and maneuvering through one can be very tricky. It ensures secure and easy parking by emitting a beeping sound as a warning and by displaying your distance from an object, which helps prevent collisions. It comes with a detailed users manual.

<http://hcberg.com/images/c550-konica-minolta-manual.pdf>



The unit is easy to install using a drill head to drill a hole on the bumper of your car. The closer you get to an object i.e., a wall, the more frequent the beeping sound becomes. It has a selection of eight weatherproof sensors in a variety of colors black, red, gray, white, deep red, champagne gold, blue, and silver. One problem with this product is the detection range is small, so if you reverse at high speeds, you may hit an obstacle. Also, the beeping sound is loud and annoying for some people. In addition, the supplied cables are not long enough for some vehicles. Best Value 2 SINOVCLE Car LED Parking Sensor Kit Check Latest Price This is a nice foursensor kit and the price is certainly right. The comprehensive, detailed installation manual guides you through installing and operating the system. The kit comes with a monitor, the wires that run from the monitor to the sensors, a power cord, and the sensors themselves. When you get near an object, the warning beep begins to sound and the LED monitor shows OK green, caution yellow, and then stop red. The sensors are waterproof and freezeproof. They are sensitive enough to detect objects and obstacles to help you avoid accidents and mishaps that can cost you money. Installation is easy, with just an electric drill required. On the downside, this kit's four sensors are only for the rear of the vehicle. Also, the "beep" may be too loud for some tastes. Honorable Mention 3 Zone Tech Car Reverse Backup Radar System Check Latest Price This parking sensor system includes four sensors that you install on the rear bumper. It comes with a double CPU and an advanced chipset for added obstacle detection. Its LED display has three colors green, red, and yellow that show the distance between your vehicle and an obstacle. This reverse radar system can detect small children and low walls. Its very durable and made of highquality materials to make it last longer.

The reverse parking sensors have protective circuits to keep it from overheating or overloading. Its also weatherproof, so it holds up in a variety of conditions, including freezing temperatures. However, the supplied wire is not long enough to install the system in a big truck. Also, its beep warning may be too loud, which is also common with rival products. In addition, the colors may not be an accurate distance indicator. Why Trust Us All of our reviews are based on market research, expert input, or practical experience with most products we include. This way, we offer genuine, accurate guides to help you find the best picks. Learn more Benefits of Parking Sensors Avoid collisions. It can sometimes be a little challenging to back up your vehicle, especially if youre in a small parking lot or in an unfamiliar location and aren't sure if there is something in the blind spot. The best aftermarket parking sensors help you avoid accidental impacts. Maintain situational awareness. The best front and rear parking sensors use a camera or radar to inform you when you're

getting close to an object you may not see. Sometimes these minor blemishes cost a bit of money to repair. Avoid the issue by investing in parking and backup sensors that give you a better rearview.

**Types of Parking Sensors Radar** Some of the best aftermarket parking sensor kits use radar waves that bounce off nearby objects and then return to the sensors. The device analyzes these signals to create a 3D view of the vehicle and any objects in the proximity. The system then generates an alert as the vehicle moves closer to an obstacle. These alerts can be audible, visual, or both.

**Camera** Many new vehicles are fitted with parking sensors from the factory that uses a camera to help you navigate a parking space. You can also buy an aftermarket backup camera with parking sensors.

<https://www.grandeprairie.org/wp-content/plugins/formcraft/file-upload/server/content/files/16272d41004cd9---bridge-manual-nz.pdf>

Some of these products are wireless and work with an app on your smartphone, which is a nice feature because you don't have to deal with complicated installation.

**Fixed** Not all parking sensors are installed directly on your vehicle. Some fixed systems are mounted in your garage or in a parking space. This is advantageous if you don't want to drill holes into your vehicle's bumper or deal with electrical wiring. Plus, this type of system works with multiple vehicles instead of just one. Fixed systems allow you to park large vehicles in small spaces easily and effectively.

**Top Brands**

**FenSens** Based in San Francisco, California, FenSens technology is simple and easy to install on any vehicle. It makes one product, the FenSens Smart Wireless Parking Sensor, that makes parking safe via a smart license plate frame and automated handsfree mobile app.

**STKR Concepts** Based in Troutman, North Carolina, STKR Concepts has been manufacturing a wide range of products since 2005. Its products include rechargeable flashlights, headlamps, garage lighting, and this parking aid, the STKR Concepts Adjustable Garage Parking Sensor Aid. These midrange products are beneficial because they are usually more sensitive to surrounding objects than their cheaper rivals.

**Key Features**

**Coverage and Number of Sensors** The best quality parking sensors provide nearly complete coverage by detecting all obstacles that are located near your vehicle when you're trying to park it. It's best to choose a kit that has at least two sensors. However, systems with more sensors will provide more accurate reporting.

**Installation** Many companies have designed kits that are quick and easy to install on most vehicles. However, you should still check with the manufacturer to see if it's possible to integrate the system with your particular car's make and model. Also, check where the kits display will be located, how it is powered, and whether you need to do any drilling or wiring.

<BABYBASKETSONLINE.COM/userfiles/files/canon-powershot-is-500-manual.pdf>

**Weatherproof** Choose the highest quality and most durable kit you can find. It's better to spend a little extra money for a system that's long-lasting because it will save you money in the long run. Look for weatherproof and waterproof kits, particularly if you live in an area that experiences extreme temperature fluctuations. Kits that are of inferior quality will not last as long in certain weather conditions.

**Type of Alerts** Another important feature of a parking sensor system is how it delivers its information. Some systems only use audible beeps to let you know that you're getting near an obstacle. Other systems feature an LED display. Some brands use a combination of both. While beeping can be very helpful, some products are extremely loud, so take that into consideration.

**Other Considerations**

**Wireless** Some car parking sensors are wireless. They feature both a control and display unit in one. These devices wirelessly transmit information to the driver about nearby obstacles. One of the benefits is that they don't require any wiring skills. One of the drawbacks is that they may not be as accurate as aftermarket kits that are wired. They also tend to be more expensive.

**Best Value** SINOVCLE Car LED Parking Sensor Kit Check Latest Price This is a nice four-sensor kit and the price is certainly right.

**Honorable Mention** Zone Tech Car Reverse Backup Radar System Check Latest Price This parking sensor system includes four sensors that you install on the rear bumper.

**Tips** Although a wireless parking sensor is easy to install, it may not be as accurate as a wired one. A wired parking sensor is more reliable. Consult a specialist for proper



installation. When installing a set of parking sensors, make sure they are evenly spaced at about 12 to 16 inches between sensors and 22 inches from the ground. If you have a large car, consider using a wireless system. Otherwise, you may need to use a long cable so it properly reaches the display.

FAQs Q What are parking sensors in vehicles.

A A parking sensor is a gadget installed on the car's rear bumper to detect proximity to obstacles. It helps the driver park more safely and comfortably. Q Can parking sensors be added to any car A Yes. It is possible to add a parking sensor to many vehicles. Some come with a special hole drilled on their bumpers for a precise parking sensor fit. Q Do parking sensors detect any object. A While this is a consideration when buying a parking sensor, many sensors that use soundwaves do not detect small objects such as curbs. Q How do rear parking sensors work. A Rear parking sensors typically use sound technology. They emit an ultrasonic sound that is reflected towards the nearby obstacle, and this information is relayed to the driver as a beep or visual cue. Final Thoughts If you want a superior quality parking sensor, we recommend the EKYLIN Parking Sensors With Eight Sensors. It has eight sensors, an LED display, and a beep sound warning that ensures safe parking. For a cheaper product that is easy to install, consider the SINOVCLE Car LED Parking Sensor Kit. MORE TO READ RELATED Best O2 Sensors Monitor Your Engine's Performance Monitor the airfuel ratio and prevent a rich or lean mix in your exhaust with these O2 sensors READ NOW RELATED Best Garage Parking Aids Know Where to Park in Your Garage The best simple solutions for marking the right parking spot in a garage READ NOW RELATED Best Halogen Headlight Bulbs Drive At Night With More Confidence Upgrade your old, dim headlight bulbs with whiter and brighter ones READ NOW RELATED Best Night Vision Monoculars Improve Your Vision in the Dark Enjoy exploring the night with these night vision monoculars READ NOW RELATED Best Flashlights Control Light at Night and in Your Shop Find your way through dimly lit areas with these flashlights READ NOW Shop the drive Tools to help you design, research and find the right car for you. All Rights Reserved.

We are a participant in the Amazon Services LLC Associates Program, an affiliate advertising program designed to provide a means for us to earn fees by linking to Amazon.com and affiliated sites.

<https://www.thebiketube.com/acros-bosch-psb-144-v-i-manual>