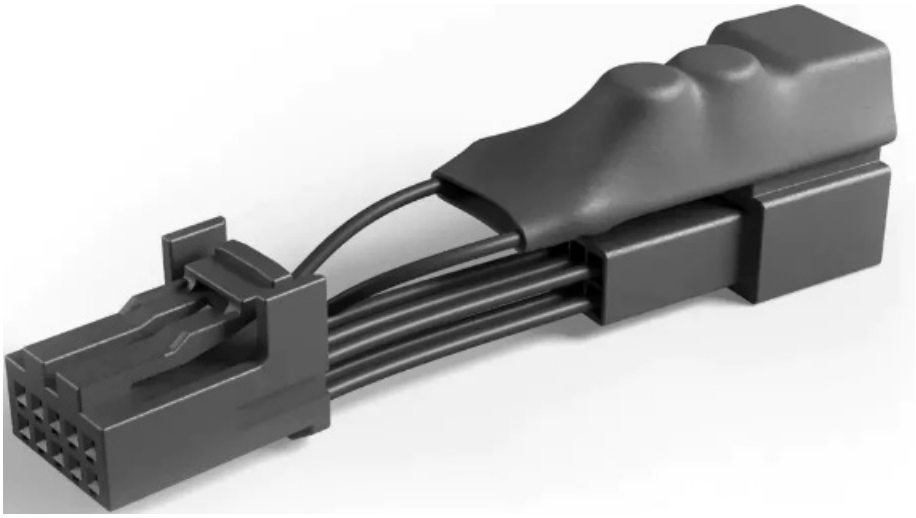
Dongar Technologies WB4 Car Radar Sensor Power Adapter for Dash Cam User Guide

Contents

DONGAR TECHNOLOGIES®

Dongar Technologies WB4 Car Radar Sensor Power Adapter for Dash Cam



Product Information

Product INFO

Product	Description
Hardwire Kit	The hardwire kit is integrated with the radar sensor and is designed to effectively prevent short circuit and load over current.
Radar Inductor	The radar inductor consists of a double-ended power cord, which connects the radar sensor to the host. It has low-voltage protection, radar sensing gears, and a sensing range.

Specifications

Hardwire Kit	Radar Inductor
Name	WB4
Connector (with Radar)	Double-ended TYPE-C cable
Input Voltage	N/A
Output Voltage	N/A
Output Current	N/A
Working Temperature	N/A
Cable Length	N/A
Low Voltage Protection Fuse	Within Yellow Wire

Installation

About Installation of Fuse Box

Follow the steps below to install the fuse box:

1. Locate your fuse box using your owner's manual. It is usually found on the right under the driver's side of the car. You may need a tool, such as a key or other tool, to gain access.
2. Find the correct fuse slot by referring to the fuse map, which is a diagram describing what each fuse does and where it's located in the box. This will prevent pulling out the airbag fuse.
3. The fuse box may vary for each car model. It is recommended to find the correct fuse position according to the actual fuse box.

About connect Radar & Dash Cam

N/A – No information provided in the user manual.

About Installation of Radar

N/A – No information provided in the user manual.

About Radar

Radar's lights	Low-Voltage Protection Control buttons	Radar Sensor Surface	Radar Switch
N/A	N/A	N/A	0 (OFF), 1 (ON/Weak), 2 (ON/Strong)

Working Mode

Radar Working Status	Radar Working Mode
N/A	N/A

Warm Tips

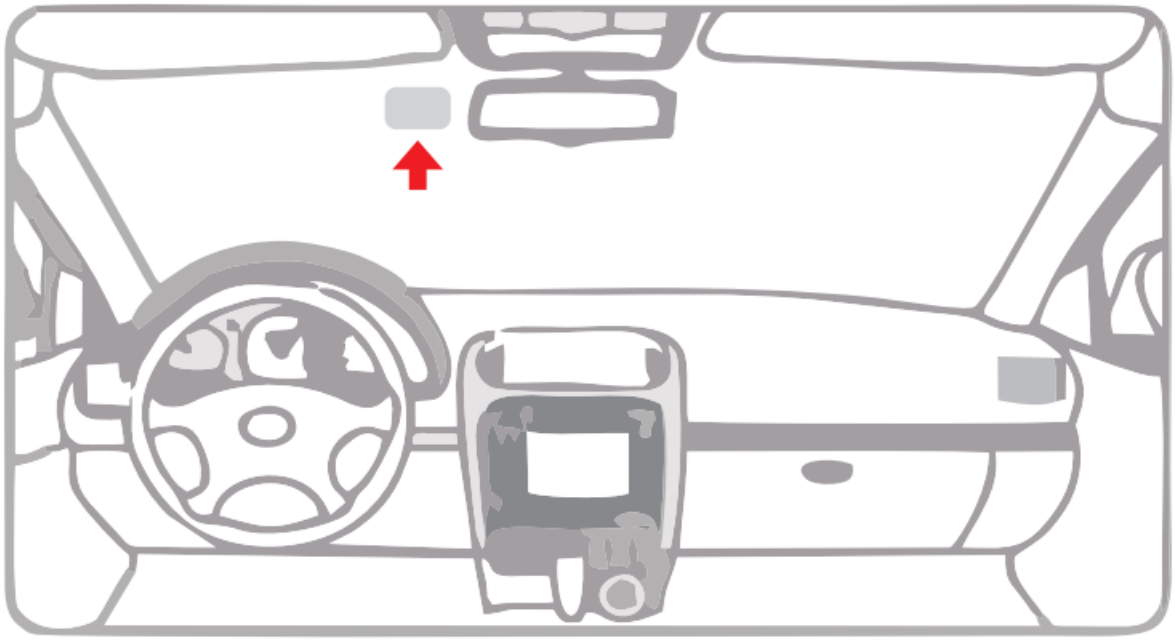
N/A – No information provided in the user manual.

Warranty & Support

N/A – No information provided in the user manual.

Please read before using and keep it for future use.
Vol.4

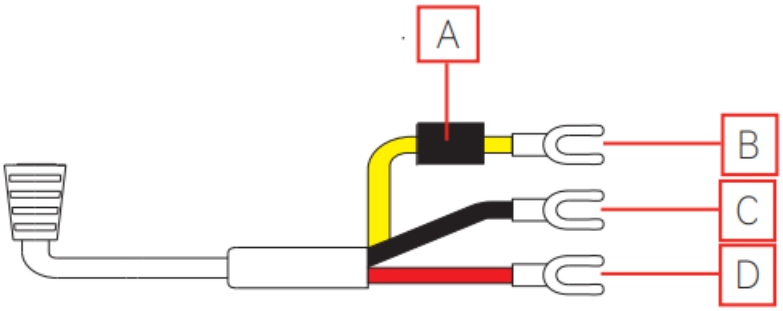
About location of Radar installation (Schematic)



PAY ATTENTION
For your efficiency and precious time,
please read the operation instructions carefully before installation to avoid recorder failure. Thank you

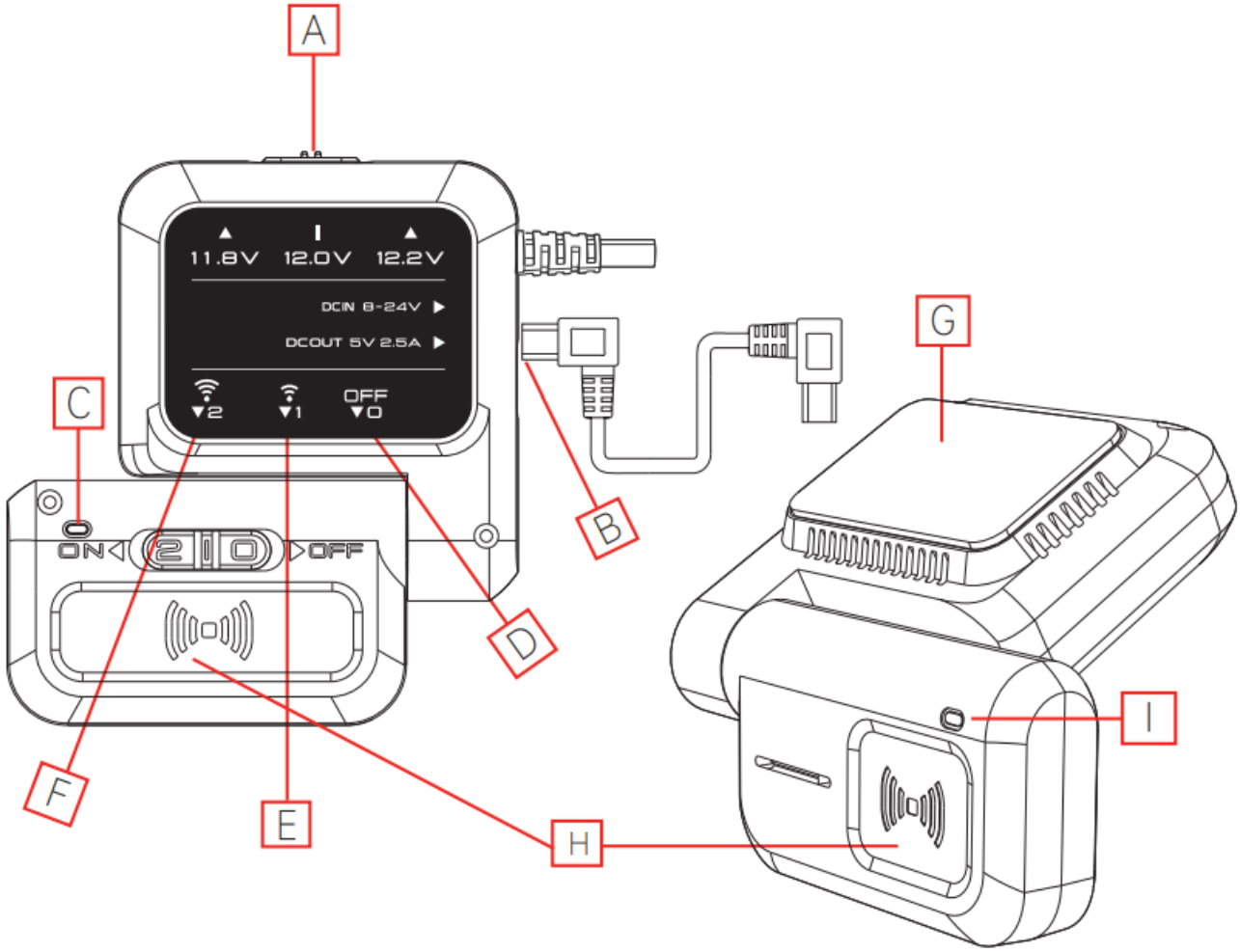
Product INFO

Hardwire Kit



- A. The fuse in the Yellow Wire
- B. Yello Wire
- C. Black Wire
- D. Red Wire

Radar Inductor



- A. Low-voltage protection control button
- B. DC OUT interface (Type-C)
- C. Radar working light
- D. Radar Switch: 0 (OFF)
- E. Radar Switch: 1 (ON/Weak)
- F. Radar Switch: 2 (ON/Strong)
- G. 3M stick bracket
- H. Radar sensor surface
- I. Radar sensor light

Specifications

Hardwire Kit

Name	Description
Connector (with Radar)	Radar & Hardwire Kit integrated
Input Valtage	DC 8V-24V
Output Valtage	DC 5V
Output Current	2.5A
Working Temperature	-22°F~167°F (-30°C~75°C)
Cable Length	10 Ft (3M)
Low Valtage Protection	12.2V / 12.0V / 11.8V
Fuse(Within Yellow Wire)	Effectively prevent short circuit and load over current

Radar Inductor

Name	Description
Model	WB4
The Double-end Power Cord (between Radar and host)	Double-ended TYPE-C cable
Input Valtage	DC 8V-24V
Output Valtage	DC 5V
Output Current	2.5A
Working Temperature	-22°F~167°F (-30°C~75°C)
Connecting Cable Length	1.3 Ft (0.4M)
Working Current	13.5 mA
Standby Current	7 mA
Radar Sensing Gears	0 Gears: OFF 1 Gears: ON/Week(0-1M) 2 Gears: ON/Strong(0-1.5M)
Radar Sensing Range	120° sector centered on the radar

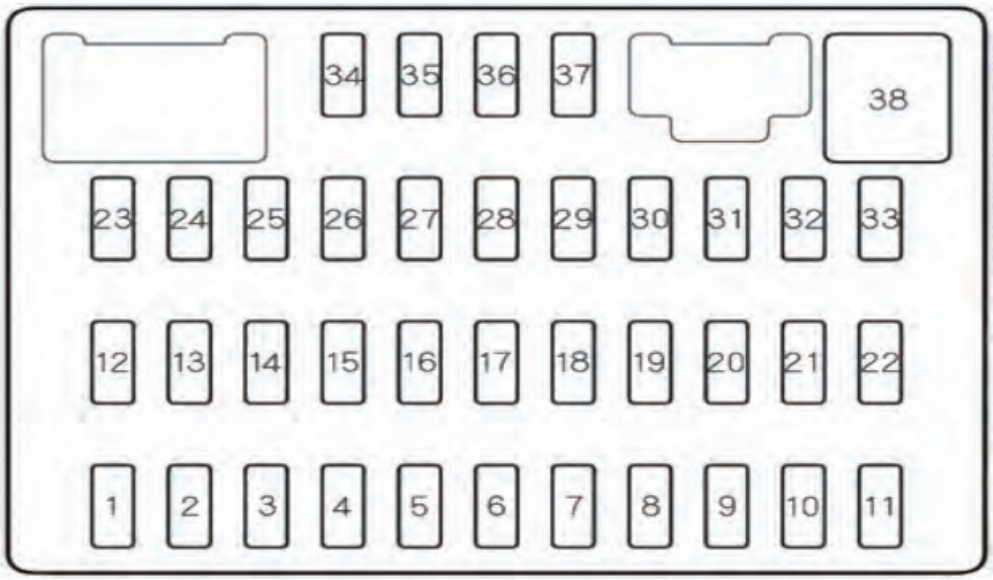
Installation

About Installation of Fuse Box

Locate your fuse box
Use your owner’s manual to identify the location of the internal fuse box. This is normally found by the right under the driver’s side of car. You may need a tool to gain access.
(Such as the key or other tool)

Find the correct fuse slot

- You need to find the fuse map which is a diagram describing what each fuse does and where it’s located in the box.
- This simplifies the process and ensure you don’t pull the airbag fuse.
- The fuse box of each model is not necessarily the same. It is recommended to find the correct fuse position according to the actual fuse box.



SCHEMATIC

Example based on schematic

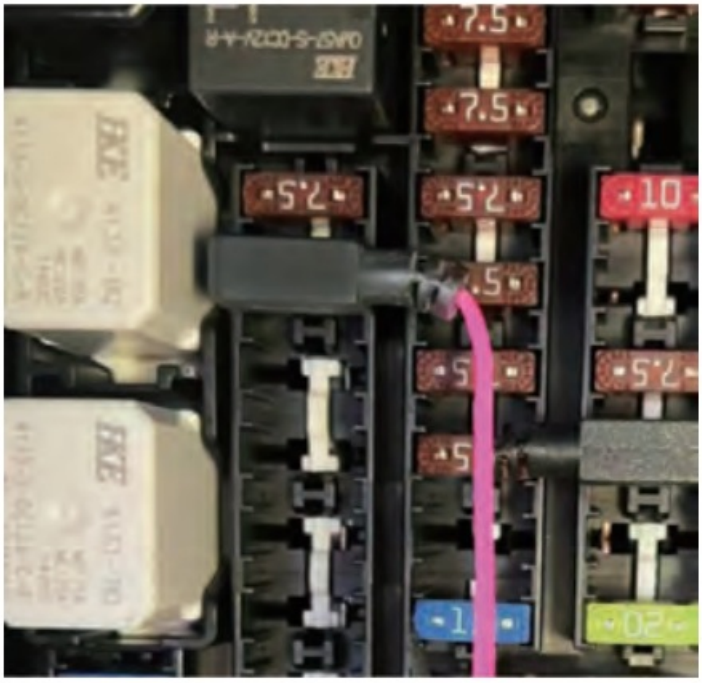
No.	Amps	Circuits Protected	No.	Amps	Circuits Protected
1	7.5A	Power Window	2	15A	Fuel Pump
3	10A	Alternator	4	7.5A	ABS/VSA Unit
5	15A	Injection	6	20A	Front Fog Lights
7	—	Not Used	8	—	Not Used
9	7.5A	ODS	10	7.5A	METER
11	10A	SRS	12	10A	Right Headlight High Beam
13	10A	Left Headlight High Beam	14	7.5A	Small Light (Interior)
15	7.5A	Small Light (Exterior)	16	10A	Right Headlight Low Beam
17	10A	Left Headlight Low Beam	18	20A	Headlight High Beam Main
19	15A	Small Light (Main)	20	—	Not Used
21	20A	Headlight Low Beam Main	22	—	Not Used
23	—	Not Used	24	—	Not Used
25	20A	Door Lock	26	20A	Driver’s Power Window
27	20A	HAC Option	28	—	Not Used
29	15A	ACC	30	20A	Front Passenger’s Power Window
31	—	Not Used	32	20A	Rear Right Power Window
33	20A	Rear Left Power Window	34	—	Not Used
35	7.5A	ACC Radio	36	10A	HAC
37	7.5A	Daytime Running Light	38	30A	Front Wiper

Connect to car fuse box

1. You will need a circuit tester or multimeter to test if a fuse is ignition switched or always on.
2. Make sure the key is removed from the ignition before installing hardwire kit.
   Using a fuse puller or a pair of pliers, gently remove the fuse you identified.
3. Install the fuse for the hardwire kit -to the fuse you identified and removed, inserting the power wire into the fuse with the correct orientation.

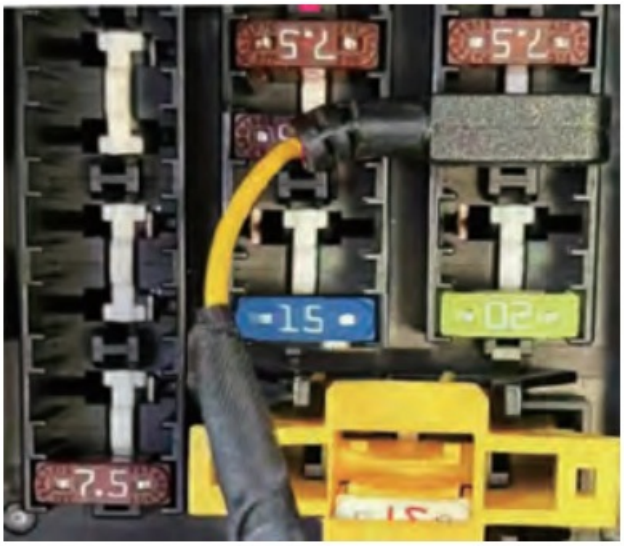
For ACC Box (Connect with Red Wire):

1. Turn off the car completely, and find the fuse that does not turn on when the car is off.
2. Restart the ignition with the key and test whether the interface is powered on when the car is started.



For BAT Box (Connect with Yellow Wire):
Please turn off the car and remove the key to see which fuse slots stays lit on.
PS: Requirements for BAT interface:

Please select the constant current interface
below 15A and no other equipment is using electricity.



For Ground the hardwire kit (Connect with Black Wire):
Find the negative connector (ground) and slide or screw the black wire under the metal bolt, not to the plastic part. (You will need to use a tool to fully loosen the nut or bolt of your choice of ground negative, then slide the black wire in and retighten. A loose ground can cause power problems with dash cam.)

Test your installation

1. Connect the three-core power cord of hardwire kit in the fuse box of the car.
2. The double-ended power cord: one end is connected to the output end (DC OUT) of radar, and the other end is connected to the recorder.
3. If everything was installed correctly, you can see dash cam turn on and begin recording!
4. At this point, you can go ahead and reinstall all interior panels that were removed.
5. After confirming no problem, hide the power cord along the car gap until to the middle of the windshield and the roof.

About connect Radar & Dash Cam

1. Please confirm the switch button face of radar must be facing the car. it is the front side
2. Select the location of the radar on the windshield. (try to avoid the black dot film on the original glass)
3. Double-ended cable: TYPE-C port to the DC OUT of radar. The other TYPE-C is connect to the power port on Dash cam.

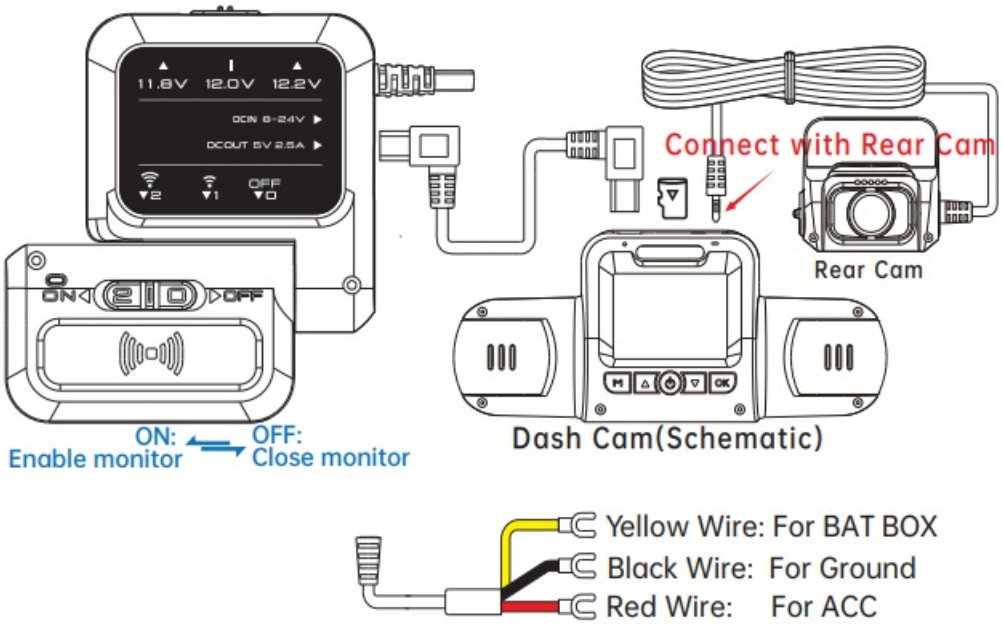
Note: (Please follow these instructions strictly!)

1. Different power interface in different dash cam, please connect the wire according to the interface of dash cam.
2. Incorrect connection of the interface may lead to abnormal conditions of dash cam!

About Installation of Radar

1. The radar installation should avoid the black heat insulation spot on the top of the front window in the car.
2. Radar must not be obscured by rearview mirrors or anything else.
   (Because this is a double-sided radar induction, if the radar sensing surface is blocked, the sensing signal will not be able to be emitted and thus will not work effectively.
3. The switch button face of radar must be facing the car.
4. Select the location where you want to place the radar, peel off the protective film from the 3M adhesive holder and stick it on the windshield of the car.

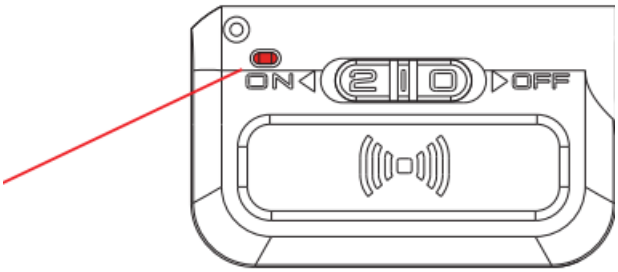
PS: Since the double-ended cable is 0.4m long,
please control the position between radar and
dash cam before pasting radar and dashcam.
(Avoid the double-ended cable is not long enough because the distance between radar and dashcam is too far.)



About Radar

Radar's lights

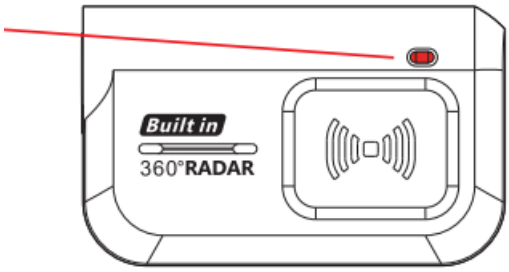
Radar working light



Explanation:
Indicates whether the radar is working or not.

Woking Status:
When the ACC is disconnected (Car's engine is completely off), and the radar switch is turned ON in the case of "1" or "2", the radar working light is always on red.

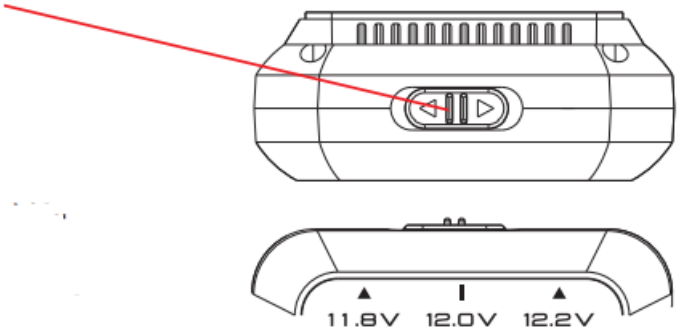
Radar sensor light



Explanation:
Indicates whether the radar senses
moving objects.
Woking Status:
When radar is in working condition, in the radar sensing range,

1. Moving objects, the radar sensor light will flash red.
2. No moving objects, the radar sensor light will not be on.

Low-Vol Protection Control buttons



Settable Gears:
11.8V / 12.0V / 12.2V

Explanation:
Depending on the voltage of your car, select the appropriate low voltage protection value to set.

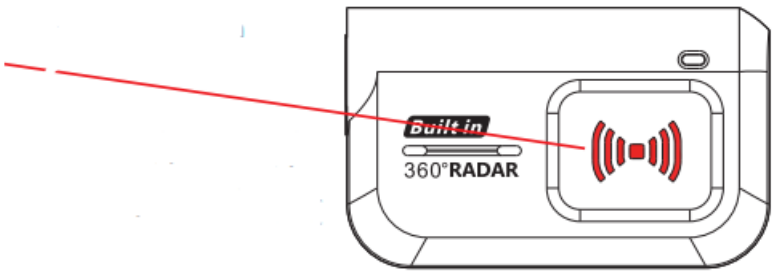
PS: The general recommended setting is 11.8V.

Woking Status:
When the power cord detects that the voltage of your car battery is lower than the value you have set, it will automatically cut off the power supply and stop our product from continuing to use the electricity from your car battery.

Radar Sensor Surface
WB4 is a 360° sensor radar consisting of built-in dual radar modules. It can sense the whole car range from 1m to 1.5m. Woking Status:
When radar is in working condition, in the radar sensing range,

1. A moving object triggers the radar signal, the dash cam is activated to record.
2. No moving object triggers the radar signal, the dash cam will standby and will not record. (Standby = Dash cam closed)

Sensor Surface-1 (Front)

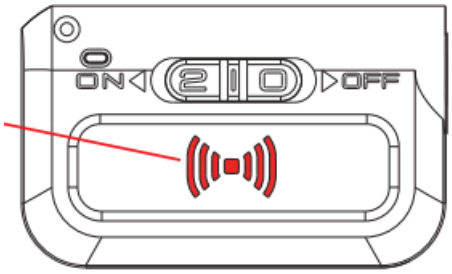


Explanation:
The sensor surface 1 facing the front of the car, mainly senses the range in front of the car.

Sensing Range:

- Sensing distance of 1 meter from the front of the car. (Non-adjustable distance)
- A horizontal 120° sensing range fanning out from the radar center.

Sensor Surface-2 (Inside)



Explanation:
The sensor surface 2 facing the inside of the car, mainly senses the side of left, right and rear of the car.

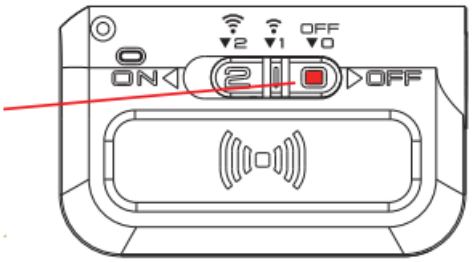
Sensing Range:

- The gear level of radar switch-ON (1 or 2) can adjust the distance of the sensor surface 2.

- A horizontal 120° sensing range fanning out from the radar center.

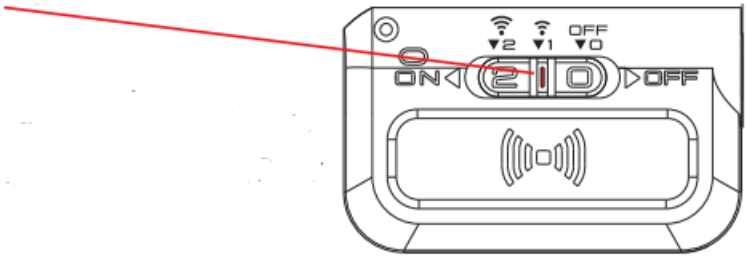
Radar Switch

Radar switch: 0 (OFF)



Explanation:
Indicates that closed radar and not need
parking monitoring.
Woking Status:
When the ACC is disconnected (Car's engine is completely off), turn the switch on the radar to "0"=OFF, then the radar stops triggering work, and the recorder will not turn on and record.

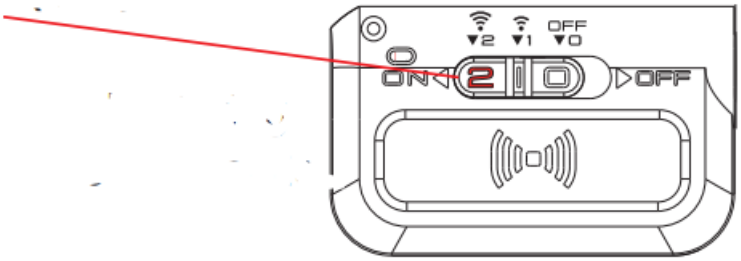
Radar switch: 1 (ON/Weak)



Explanation:
Indicates that opened radar and entering "Weak" gear of the parking monitor mode.

Sensing Range:
0-1 Meters (About 0-3.3Ft)

Radar switch: 2 (ON/Strong)



Explanation:
Indicates that opened radar and entering
"Strong" gear of the parking monitor mode.

Sensing Range:
0-1.5 Meters (About 0-5Ft)

Working Mode

Radar Working Status

- **When the car engine is fully started,**
  the radar light will not come on red no matter where the radar switch in, the radar doesn't need to be working, the dash cam will turn on automatically and is always in recording operation.
- **When the car engine is fully shut off,**
  - If the radar switch is in OFF, it means that the radar is turned off and there is no need for parking monitoring. The radar will not do any signal detection of moving objects and the machine will not turn on to record.
  - If the radar switch is in "1" or "2", the radar light will always be red, it means that the radar is in working condition.

Radar Working Mode

When the radar signal detects a moving object, it will trigger dash cam to turn on and enter the recording state immediately.

- The radar will continue to detect 90 seconds, if the radar still detects moving objects in this 90 seconds, dash cam will keep recording.
- Until the radar has continued to detect 90 seconds and no objects move, the recorder will enter standby mode for 10 seconds. (No moving object will be detected during the 10 seconds of standby.)
- After 10 seconds of standby,
  - If the radar does not detect a moving object, it will continue to standby.
  - If the radar detects a moving object, it will continue to repeat the above working mode.

Warm Tips

1. Please check whether the battery of your car is healthy before installing the Radar & Hardwire Kit.
2. Install Radar & Hardwire Kit strictly according to the installation diagram.
3. Please don't connect both the yellow and red wires to the BAT fuse at the same time, as this will cause the working mode to go into 24/7 hour non-stop recording mode.
4. Since parking monitor requires to use electricity from car battery, it is recommended to stop using parking monitoring by turning off radar after about 48-72 hours of continuous parking. (If you wanna continue using it, it is recommended that you start the car's engine completely first to allow the battery to fully charge).
5. When the temperature in the parking environment is severe, advised to turn off the monitoring system to avoid high or low temperature.

Warranty & Support

If you have any question about your product, please feel free to contact us, inquiries are usually answered within 12-24 hours.

If you have any concerns, Please contact us via e-mail: **tiesfong@gmail.com**

Your opinion matters
We are firmly committed to always improved our products, services, and user experience.
If you have any thoughts on how we can do even better,
we welcome your constructive feedback and suggestions.

FCC

Warning:
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 Statement:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The equipment complies with FCC Radiation exposure limit set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

ENJOY YOUR PRODUCT!
THANKS FOR CHOOSING TiESFONG!

Made in China

Documents / Resources

Dongar Technologies WB4 Car Radar Sensor Power Adapter for Dash Cam [pdf] User Guide

2A88G-WB4, 2A88GWB4, WB4, WB4 Car Radar Sensor Power Adapter for Dash Cam, Car Radar Sensor Power Adapter for Dash Cam, Sensor Power Adapter for Dash Cam, Adapter for Dash Cam, Dash Cam

Manuals+,