How to Hardwire a Dash Cam

The Hardwire Fuse Kit with Mini USB Bundle has everything you need to charge your dash cam, cellphone, tablets or other devices from your car's battery even if your engine is off。

It has low voltage protection so that you can use to power your dash camera 24 hours a day without draining your battery to dead.

Below are steps to install the hardwire kit:

1. Identify your vehicle's fuse type (important)

There are four main fuse types found in vehicles today,ATC, ATS,MICRO2,MINI, The Mini is the most common fuse type, based on our observations.



Fuse boxes and fuse types vary not only from car to car, but also from year and model. Therefore, it' s important to know which fuse type your car uses to ensure that your dash cam installation kit can plug in to your fuse box, the best way to know the exact fuse type that you need is to open your fuse box and take a look.

How to find your fuse box and discover which fuse type your car is?

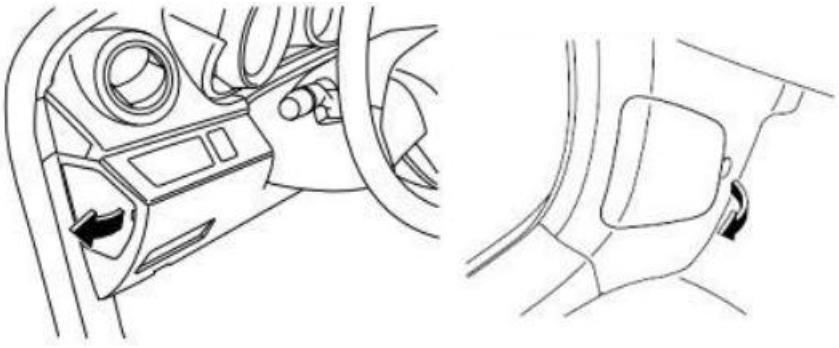
1.1 Turn Your Car Off

Before doing any electrical work, ensure that your vehicle's engine is turned off and the key is completely removed from the ignition.

1.2 Find Your Owner's Manual

1.3 Locate Your Fuse Box

Below is some examples about how to access the fuse box(different cars have different ways), only for reference.

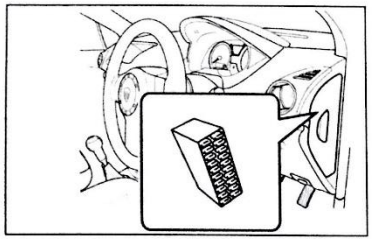


1.4 Remember the Fuse You'll Remove

1.5 Carefully Remove a Fuse

1.6 Compare the Fuse to our Fuse Type Chart, and choose the right fuse type of yours.

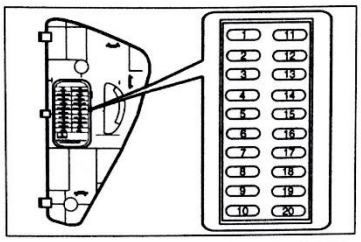
2. Identify which fuse is ACC and Battery. Example referring to below interior fuse box diagram：



DOIMW009R08001

Driver compartment (Satellite Fuse Box)

The satellite fuse box in the driver compartment is located at front pillar RHS as shown in the illustration.



DOIMW009R07012

Fuse load capacity

The satellite fuse housing cover shows details of the electrical systems and the fuse capacities.

NO	Electrical system	Capacity
1	Alarm/Immobiliser*	10A
2	Audio	15A
3	Hazard	15A
4	Meter/Diagnostic	10A
5	Horn	15A
6	Audio	15A
7	Power socket	20A
8	Power mirror*	10A
9	Alarm/turn RH*	7.5A
10	Alarm/turn LH*	7.5A
11	Alarm/Immobiliser*	10A
12	Airbag*	10A
13	ECU	15A
14	TCU*	15A
15	Back up lamp*	5A
16	Meter/Diagnostic	10A
17	Turn signal	10A
18	Power window*	25A
19	HVAC/Defogger	10A
20	Wiper	20A

* if fitted

Note: Strongly advised not to connect hardwire kits wire to any of fuse's related to vehicle safety system.
Recommended to choose as below:
Acc signal: Fuse No. 6 Audio, Fuse No. 7 Power Socket or Fuse No. 8 Power Mirror.
Battery signal: Fuse No. 2 Audio, Fuse No. 3 Hazard.

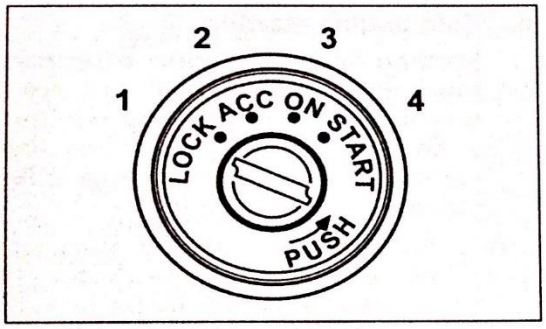
After located the fuse point, you need to double confirm whether the fuse is providing the signal as we needed.

To confirm the signal, you will need below tools:

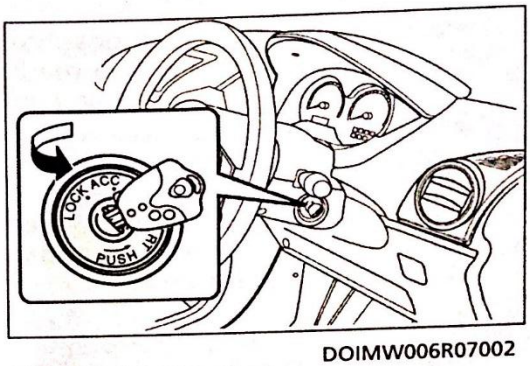




Please refer to below ignition switch diagram example as below;



DOIJW006R04304



DOIMW006R07002

Ignition switch OWN006START402

1 - The key can be inserted and removed only at the engine stop and steering wheel locked position.
2 - Engine stopped at ACC. Radio, cigarette lighter, etc., can be operated.
3 - The engine is running and all electrical systems can be operated.
4 - The starter motor operates. After the engine has started, release the key and it will automatically return to the "ON" position.

NOTE

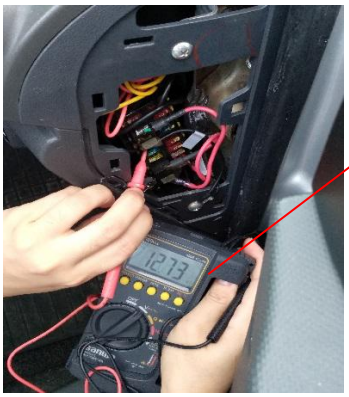
To remove the key, push the key at the "ACC" position and keep it depressed until it is turned to the "LOCK" position, and remove

⚠ CAUTION

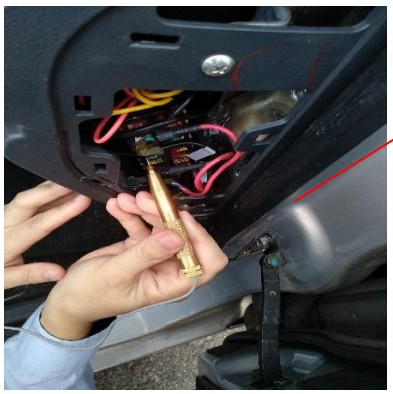
(1) Do not remove the ignition key from the ignition switch while driving. The steering wheel will be locked, causing loss of control.

(2) If the engine is stopped while driving, the brake servomechanism will cease to function and braking efficiency will deteriorate. Also, the power steering system will not function and it will require greater manual effort to operate the steering.

To confirm Battery signal, **Ignition Switch position must be in lock position**,

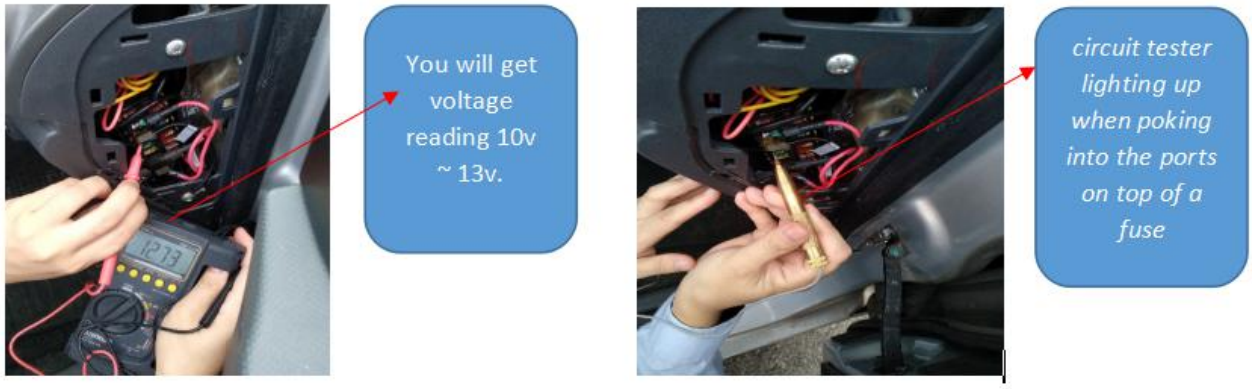


You will get voltage reading 10v ~ 13v.



circuit tester lighting up when poking into the ports on top of a fuse

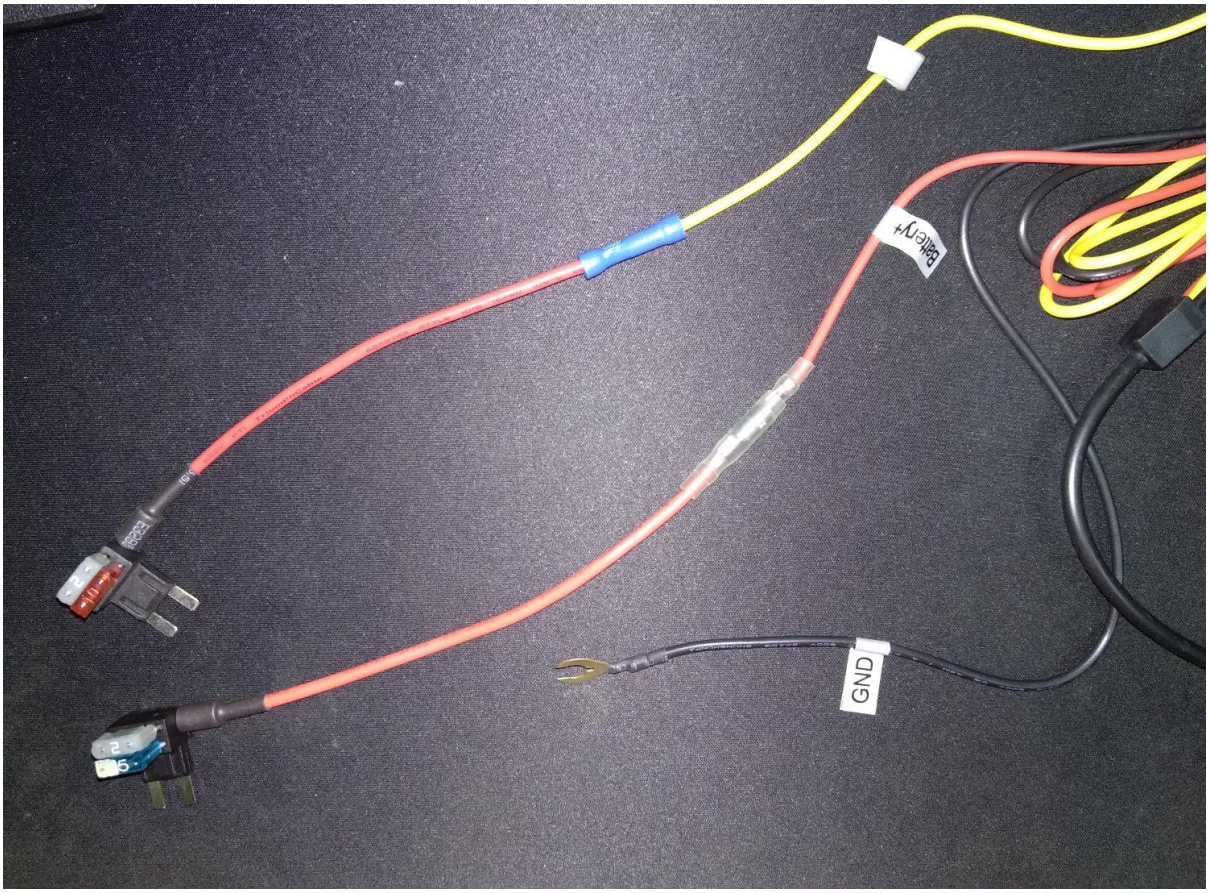
To confirm ACC signal, Ignition Switch position must be in ACC position. You should get voltage reading on multimeter or light up on circuit tester. Reconfirm the fuse slot again with Ignition Switch position in Lock position and recheck the fuse slot using multimeter or circuit tester. **You should not get any voltage reading on your multimeter or circuit tester not light up during Ignition Switch in Lock position.**



To confirm ground point, refer to below picture; use multimeter to check continuity mode. Find any screw direct tighten to vehicle body and measured the screw point against the vehicle body. A good ground point must get continuity reading at < 0.1 ohm.



Now you have determined the ACC signal, Battery signal and ground connection point. It's time to connect your hardwire kits to your vehicle electrical system on the interior fuse.



Note: Refer below for fuse tap electrical flow as per picture below;

