70mai Adjustable Hardwire Kit User Manual
70 迈数显调压监控线

Scan the QR code and email us at **help@70mai.com**

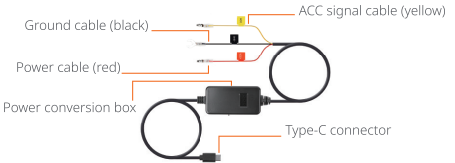
Scan the QR code for video instructions.

70mai

Contents

Product overview

Please read this manual carefully before use, and keep it for future reference.



Note: Illustrations of the product, accessories, and user interface in the user manual are for reference purposes only. The actual product and functions may vary due to product enhancements.

Product functions

As an accessory to 70mai in-car devices, this product must be used in conjunction with the main device. After correctly installed and connected with the main device, 70mai Hardwire Kit will power and transmit ACC signals to the main device, and provide low-voltage protection to prevent over-discharging of the car battery due to the continuous operation of the main device.

Supported devices

This product is compatible with in-car devices that support parking surveillance and are manufactured under the 70mai brand, as well as

Xiaomi and Mijia brands manufactured by 70mai Co., Ltd. Please refer to the online guide or product page for a complete list of supported devices.

This product has a Type-C port and does not support main devices that uses a micro-USB connector.

Precautions

Before using the device, please read all the precautions to ensure correct and safe use.

- Please ask a professional technician to perform the installation. Our company is not liable for any short-circuiting of the car power supply and damage to car battery or interior due to improper installation.
- Our company is not liable for any losses resulting from the installation of the product unless they are caused by product quality issues.
- The performance of this product is affected by the reliability of the car power source, car battery and main device. Our company is not liable for any losses from the malfunction of this product unless it is caused by product quality issues.
- Some cars cannot detect changes in ACC signals when the engine is turned on or off. For such cars, the 70mai hardwire kit is unable to transmit ACC signals to the main device. This may cause certain functions to be unavailable.
- Please only use this product for lawful purposes.
- To avoid product malfunctions and personal injuries, follow the manual to install and avoid installing the hardware kit in a position that could obstruct the driver's vision or come into the way of the airbag.

Installation

Step 1. Locate your fuse box

Refer to the vehicle's user manual and locate the fuse box.

Notes:

- Make sure that the car's engine and power has been turned off before locating or operating the fuse box.
- The location and shape of the fuse box may vary among vehicles. The image is for reference only. For specific details, refer to the vehicle's user manual or consult with the automotive dealership.
- If you are unable to locate the fuse box or lack of knowledge in the electrical system, please ask a professional technician to perform the installation to avoid any accidents.

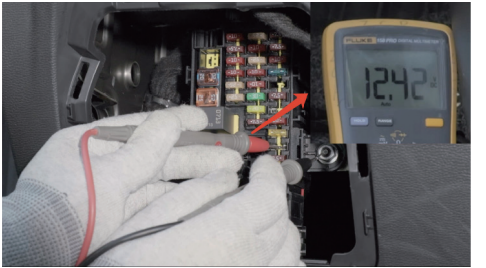
Step 2. Find the suitable fuses

Refer to the vehicle's user manual or use a multimeter to find the fuses in the following specifications.

1. The **regular electric fuse** with an output voltage of 12–30V.
2. The **ACC power fuse.**
   - The regular electric fuse provides constant power when the vehicle's engine turns off.
   - The ACC power fuse only provides power when the key is turned to ACC ON position and stops providing power when the vehicle's engine turns off.

Once identified, remove those two fuses.

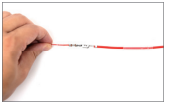
Comparison table of measured voltages		
Vehicle state	Regular electric fuse	ACC power fuse
Ignition off	Around 12 V	0 V
Ignition on	Around 12 V	12 V



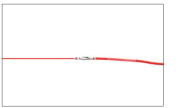
Step 3. Connect the power cable and ACC signal cable

1. Choose the correct fuse taps(ATO, Micro2, Mini,or Low-Profile) and insert the removed fuse into the vacant slots on the chosen fuse taps. Make sure your original fuse is inserted closer to the pins on the add-a-fuse cables.
2. Align the open barrel terminal (red, tagged VCC+) of the hardwire kit with the insulated crimp terminal of the electric add-a-fuse cable.
3. Crimp the connection.
4. Pull back the insulation sleeve to cover the connection.
5. Repeat sub-steps 2–5 for the chosen fuse tap for the ACC cable(yellow, tagged ACC).

1. Choose the correct taps and insert the fuses.



2. Align the tap with the VCC+ cable.



3. Crimp the connection.

4. Insulate the connection.

Step 4. Insert the fuse taps and connect the ground wire

1. Insert the fuse tap connected to the VCC+ cable into the slots of the regular electric fuse that you measured in **Step 2.**
2. Insert the fuse tap connected to the ACC cable into the slots of the ACC power fuse that you measured in **Step 2.**
3. Bolt the ground wire (black) of the hardwire kit to the grounding screw or chassis of the vehicle.
4. Fasten the bolt.

Insert

Ground

Step 5. Test the connection and ACC signal

1. Connect the Type-C connector of the hardwire kit to the power outlet of the main device (DC/IN). Start the engine and wait for the main device to turn on.

   If the main device fails to power on, turn it on manually. If the message "**Connect to an external power source**" is shown, check the power cable of the hardwire kit to see if it is correctly connected to the regular electric fuse.

2. After the main device has turned on, turn off the engine and remove the key. Check if the main device powers off.

   For some cars, the ACC power off signal will only be triggered when the driver seat door is opened after the engine is turned off. Some car models will only trigger the ACC power off signal after the engine has been turned off for a certain period of time. For such cars, observe for some time after the ACC power is turned off to check if the main device powers off.

3. After the main device powers off, restart the engine and check if the main device automatically turns on.

If the above steps can be proceeded correctly, the circuit and ACC signal test is passed.

If the circuit and ACC signal test fails, please check the wiring of the hardwire kit and ensure that the fuse and ground are correctly connected.

If the connection is correct, but the test fails, contact after-sales service for assistance.

Step 6. Test the parking surveillance function

1. When the main device turns on, enable the parking surveillance function on the device or the 70mai app (when the main device is connected to the app)
2. Allow the vehicle to run for approximately 1 minute, then turn off the engine and observe if the main device automatically enters parking surveillance mode.

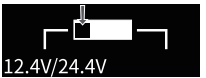
If the main device enters the specific mode, the connection is normal.

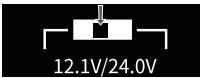
If not, ensure that the cable is firmly connected, and then restart the vehicle. Allow it to run for approximately 1 minute again, then turn off the engine and observe if the main device enters parking surveillance mode.

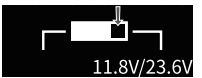
Step 7. Set a low-voltage protection value

This voltage value protects your car battery from over-discharging. The idea is that the lower the voltage is set, the longer the parking surveilance can work. If the detected voltage of the battery has been below the set voltage for 3 minutes, then the kit instantly cuts off the power to the cam, protecting the battery from draining.

Set the value according to the capacity of your battery (normally 12V or 24V) and the time you need the parking surveilance to work for.







Step 8. Manage the cable

Route the hardwire kit to the location of the main device.

If the hardwire kit is too long, tie it up, but do not cut it. Cutting the hardwire kit will affect the power and ACC signal to the main device.

Notes:

- The actual installation and wiring path of the hardwire kit may differ from the illustrations in the manual. Please seek assistance from a professional technician.
- Before installation and wiring, please turn off the car engine and power to prevent short circuit.

Specifications

Product: 70mai Adjustable Hardwire Kit
Model: Midrive UP06
Input: DC 12 –30V
Output: DC 5V ⎓ 2.4A
Negative car power outlet: GND(–)
Positive car power outlet: VCC(+)
Car power: ACC
Low voltage protection 12V: 11.8V/12.1V/12.4V
Low voltage protection 24V: 23.6V/24.0V/24.4V

Packing list

- 70mai Adjustable Hardwire Kit× 1
- User manual × 1
- Fuse taps × 8(ATO × 2, Micro2 × 2, Mini × 2, Low-Profile Mini × 2)
- Adhesive pad × 1

Troubleshooting

1. The hardwire kit is not powering the main device.

- Make sure the selected regular electric fuse has an output voltage of 12-30V.
- Make sure that the hardwire kit cables are well connected with the correct fuses.
- If it still doesn't power the main device, try to identify other usable fuses and connect them, referring to Step 2 in Installation chapter.

2. The main device is constantly rebooting.

Make sure that the black cable of the hardwire kit is securely bolted to a good metal ground connection.

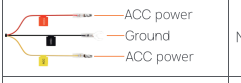
3. The main device couldn't enter parking surveillance mode.

- Make sure the parking surveillance function is enabled in the main device or the 70mai app (when the main device is connected to the

app).

- Make sure that the hardwire kit cables are well connected with the correct fuses.

Comparison table of wire connection and dash cam status		
Connection method	Dash cam status (parking surveillance function is enabled)	
	While driving	While parking
	Normal recording	Entering parking surveillance mode

	Normal recording	Normal recording
	Normal recording	Powering off
	Entering parking surveillance mode	Powering off

	Normal recording	Powering off
	Dash cam will never power on	Dash cam will never power on

Regulatory compliance information

WEEE information

All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

EU declaration of conformity

The manufacturer hereby, declares that this equipment is in compliance with the applicable Directives and European Norms, and amendments. The full text of the EU declaration of conformity is available at the following internet address: https://help.70mai.asia/1193.html

Hereby, 70mai Co.,Ltd. declares that the radio equipment type Midrive UP06, is in compliance with Radio Equipment Regulations 2017. The full text of the UKCA declaration of conformity is available at the following internet address: https://help.70mai.asia/2145.html

IC Caution

CAN ICES-003 (B)/NMB-003(B)
RSS-Gen Issue 3 December 2010"&"CNR-Gen 3e édition Décembre 2010:
- English:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.
- French:
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le
brouillage est susceptible d'en compromettre le fonctionnement.

FCC Caution.

§ 15.19 Labelling requirements.