

CarKit Vehicle Adapter CARKIT车载适配器

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8110CK0200010

Preface

Thanks for your favor in our product. To derive optimum performance from the product, please read this manual carefully before use.

This manual is applicable to the following carkits:
CK02 / CK03 / CK02-S / CK03-S / CK02-E / CK03-E

Icon Conventions

The following icons are available through this manual:

- Caution:** indicates situations that could cause damage to your product or bodily injury.
- Note:** indicates tips that can help you make better use of your product.

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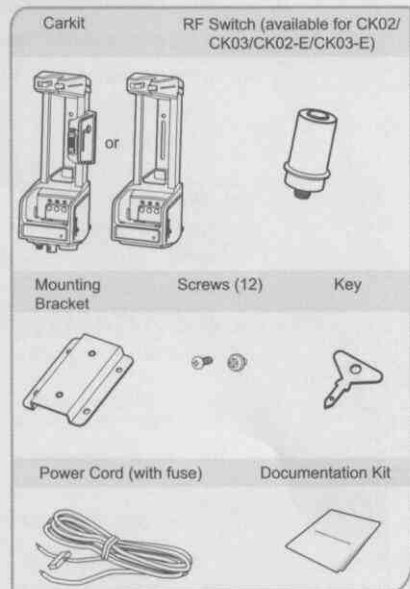
If you have any suggestions or would like to learn more details, please visit our website at <http://www.hytera.com>.

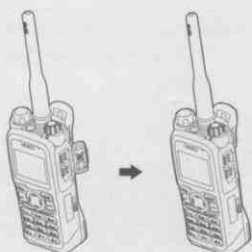
Safety Instructions

- Do not install the product in the air bag deployment area or a position where it will interfere with driving.
- Make sure that the product operates in the temperature range of -20°C to +60°C and charges the radio battery in the temperature range of 0°C to +45°C.
- Make sure that the vehicle's electrical system can supply 12 VDC to 24 VDC voltage.
- Remove the accessory connector cover before attaching the portable radio to CK02/CK03/CK02-E/CK03-E. Otherwise, the portable radio will get stuck, causing damage to the product.
- Make sure that the product is serviced by qualified technicians only.

Items in the Package

Please unpack carefully and check that all items listed below are received. If any item is missing or damaged, please contact your dealer.





3. Adjust the position of the charging module on the product.



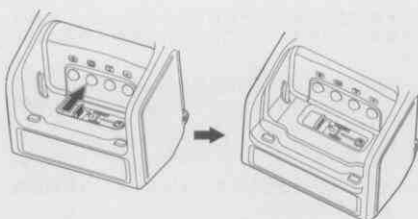
Caution

The charging module is in the thin battery position by default. Skip this step if your portable radio uses the thin battery.

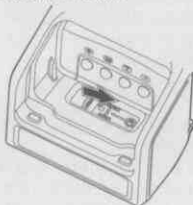
1. Push the thin/thick battery adjustment lock leftwards to unlock the charging module, as shown below.



2. Push the charging module inwards to the thick battery position, as shown below.

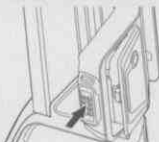


3. Push the lock rightwards to lock the charging module, as shown below.



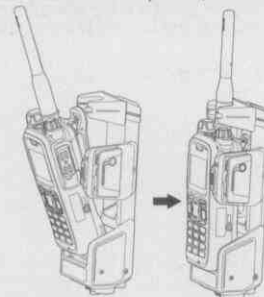
Procedure

1. Press the **Audio Jack Release** key to release the audio jack, as shown below. This step is required only for CK02/CK03/CK02-E/CK03-E.

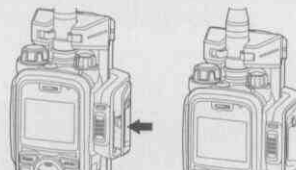


2. Attach the portable radio.
 1. Insert the portable radio aslant into the product. Make sure that the battery is fixed to the charging module properly.
 2. When the radio antenna contacts the antenna

latch, push the portable radio inwards to fix the radio antenna into the product, as shown below.



3. Press the audio jack so that it contacts the accessory connector on the portable radio, as shown below.



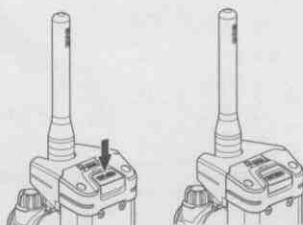
Locking and Unlocking the Portable Radio

You can secure the portable radio to prevent unauthorized removal by locking the radio antenna.

Lock

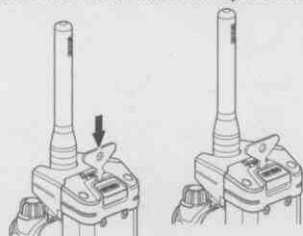
Press the **Antenna Lock** key with proper force, as shown below. The portable radio is locked when a click sounds.

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Unlock

Insert the key into the key hole with proper force, as shown below. The portable radio is unlocked when a click sounds and the **Antenna Lock** key is released.



Caution

Do not remove the portable radio forcibly when the radio antenna is locked; otherwise, the product and the portable radio may be damaged.

Removing the Portable Radio

1. Unlock the radio antenna. For details, see Unlock.



Caution

Skip this step if the radio antenna is not locked.

2. Press the **Audio Jack Release** key to release the audio jack, as shown below. This step is required only for CK02/CK03/CK02-E/CK03-E.



3. Hold the bottom of the radio antenna, and remove the portable radio with proper force, as shown below.



Pairing and Connection (for CK02-E/CK03-E Only)

To pair and connect the product with the wireless remote speaker microphone, earpiece, or ring PTT, do as follows:



Caution

You need to perform the following pairing and connection operations again in case of accessory replacement.

1. Turn on the portable radio to power on the wireless module of the product.

2. Pair and connect the product with the wireless remote speaker microphone or earpiece.

1. Long press the **Pair** key on the product until the wireless LED indicator flashes red and blue in turn, indicating that the product enters the pairing mode.

2. Make sure the wireless remote speaker microphone or earpiece is turned off. Then long press the **Power On-Off/Switch** key on the wireless remote speaker microphone or the **Multi-functional** key on the wireless earpiece until the LED indicator on the microphone or earpiece flashes red and blue in turn, indicating that the microphone or earpiece enters the pairing mode.

After the pairing succeeds, the wireless connection is automatically established. In this case, the LED indicator on the microphone or earpiece flashes blue rapidly, while the wireless LED indicator on the product glows blue, indicating that the product is waiting for pairing and connection with the wireless ring PTT.

3. Pair and connect the wireless ring PTT with the wireless remote speaker microphone or earpiece. Make sure that the wireless ring PTT is turned off. Then long press the **+** key and **-** key simultaneously until the LED indicator on the wireless ring PTT glows blue, indicating that the wireless ring PTT enters the pairing mode. After the pairing succeeds, the wireless connection is established automatically. In this case, the wireless LED indicator on the product and the LED indicator on the wireless ring PTT flash blue quickly.



Caution

Skip this step if no wireless ring PTT is available. In this case, the wireless LED indicator on the product flashes blue rapidly after about three minutes.

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Product Overview

Introduction

CK02/CK03/CK02-S/CK03-S/CK02-E/CK03-E adapts PT580H/PT580H Plus/PD700(G)/PD780(G) for operation in vehicles.

- The product function varies with product model, as listed in the following table.

Function	Description	Product Model
Portable radio securing	Holding and locking the portable radio in the vehicle.	CK02, CK03, CK02-S, CK03-S, CK02-E, and CK03-E
Battery charging	Charging the radio battery using the vehicle's electrical system (input voltage: 12–24 VDC; input current: 700 mA). The product connects to the electrical system using the power cord.	CK02, CK03, CK02-S, CK03-S, CK02-E, and CK03-E
Antenna switching	Allowing the switch from radio antenna to vehicle antenna using the RF switch.	CK02, CK03, CK02-E, and CK03-E
Wired device connection	Connecting to the wired microphone and speaker.	CK02, CK03, CK02-E, and CK03-E

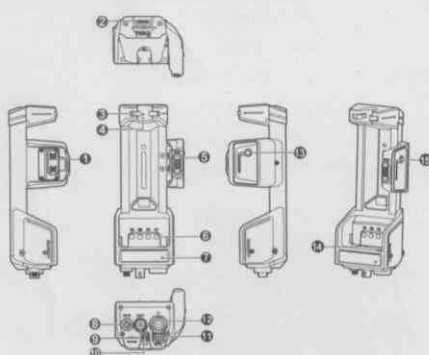
Function	Description	Product Model
Wireless device connection	Connecting to the wireless remote speaker microphone, earpiece, and ring PTT.	CK02-E and CK03-E

- The supported portable radio also varies with product model, as listed in the following table.

Product Model	Radio Model
CK02	PT580H/PT580H Plus
CK03	PD700(G)/PD780(G)
CK02-S	PT580H/PT580H Plus
CK03-S	PD700(G)/PD780(G)
CK02-E	PT580H
CK03-E	PD700(G)/PD780(G)

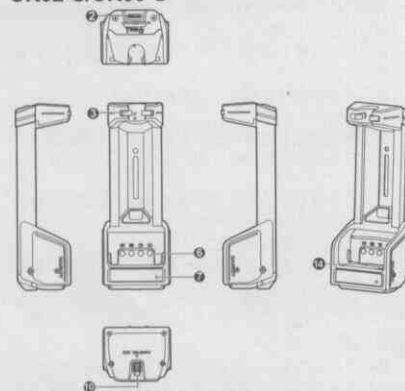
Product Controls

CK02/CK03/CK02-E/CK-03-E



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CK02-S/CK03-S



No.	Part Name	No.	Part Name
1	Audio Jack	9	RF Antenna Connector (BNC)
2	Antenna Lock Key	10	DC Power Inlet
3	Antenna Latch	11	Speaker Connector
4	RF Switch Contact	12	Microphone Connector
5	Audio Jack Release Key	13	Pair Key (available for CK02-E/CK03-E only)
6	Charging Probe	14	Thin/Thick Battery Adjustment Lock
7	Charging LED Indicator	15	Wireless LED Indicator (available for CK02-E/CK03-E only)
8	Antenna Connector (SMA)	/	/

Charging LED Indicator

LED Indicator	Battery Status
Flashes orange slowly	Being activated
Flashes red slowly	Standby (no load)
Glow red	Being charged
Glow orange	90% or more charged
Glow green	Fully charged
Flashes red rapidly	Failure

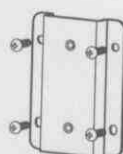
Wireless LED Indicator

LED Indicator	Product Status
Flashes red and blue in turn	The product is waiting for pairing and connection with the wireless remote speaker microphone or earpiece.
Glow blue	The product is waiting for pairing and connection with the wireless ring PTT.
Glow red	The portable radio secured by the product is transmitting.
Flashes blue rapidly	The wireless connection is established.
Flashes blue slowly	No wireless connection is established.

Installation

Installing the Product

- Drill four screw holes in the appropriate position on the vehicle panel, and fix the mounting bracket in the position by using four screws, as shown below.



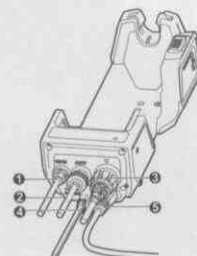
- Align the product with the two holes on the mounting bracket, and fix it to the mounting bracket by using two screws, as shown below.



Connecting Cables

The cable connection varies with your product and accessories. You are advised to connect the cables as follows:

- Connect the GPS antenna.
- Connect the RF antenna.
- Connect the microphone.
- Connect the power cord.
- Connect the external speaker.

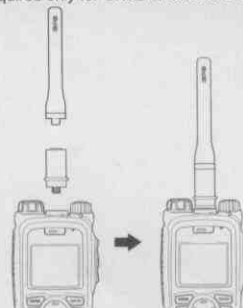


Basic Operations

Attaching the Portable Radio

Preparations

- Unscrew the radio antenna, screw the RF switch into the antenna socket, and then screw the radio antenna into the top of the RF switch, as shown below. This step is required only for CK02/CK03/CK02-E/CK03-E.



- Remove the accessory connector cover from the portable radio, as shown below. This step is required only for CK02/CK03/CK02-E/CK03-E.

Troubleshooting

Phenomena	Analysis	Solution
The product fails to charge the radio battery.	The radio battery and the charging probes are in poor contact due to improper attachment of the portable radio.	Remove the portable radio from the product and then reattach it properly.
	The radio battery and the charging probes are in poor contact due to dirtied or damaged battery contacts.	Remove the portable radio from the product, clean the battery contacts, and then reattach it.
	The input voltage or current is unstable.	Make sure that the input voltage and current are proper.
No sound comes out of the external audio device (applicable to CK02/CK03/CK02-E/ CK03-E only).	The audio jack on the product and the accessory connector on the portable radio are in poor contact.	Make sure that the thin/thick battery position is proper.
	The microphone connector is in poor contact.	Remove the microphone and then reattach it properly.
	The speaker connector is in poor contact.	Remove the speaker and then reattach it properly.
The communication distance is short (applicable to CK02/CK03/ CK02-E/ CK03-E only).	The RF switch and RF switch contacts are in poor contact.	Remove the portable radio from the product and then reattach it properly.
	The RF switch fails to be attached properly.	Remove the RF switch and then reattach it properly.
	The RF antenna connector is in poor contact.	Remove the RF antenna and then reattach it properly.
The portable radio attached to the product cannot transmit after the PTT key is pressed (applicable to CK02/CK03/ CK02-E/ CK03-E only).	The audio jack on the product and the accessory connector on the portable radio are in poor contact.	Make sure that the thin/thick battery position is proper.
	The microphone connector is in poor contact.	Remove the speaker and then reattach it properly.

If the above solutions cannot fix your problems, or you may have some other queries, please contact us or your local dealer for more technical support.

Care and Cleaning

To guarantee optimal performance as well as a long service life of the product, please follow the tips below.

Product Care

- Do not pierce or scrape the product.
- Keep the product far away from substances that can corrode the circuit.

Product Cleaning

- Clean up the dust and fine particles on the product surface and charging piece with a clean and dry lint-free cloth or a brush regularly.
- Use neutral cleanser and a non-woven fabric to clean the keys and surface after long-time use. Do not use chemical preparations such as stain removers, alcohol, sprays or oil preparations, so as to avoid surface damage.
- Make sure the product is completely dry before use.

Optional Accessories

The following items are main optional accessories for the product. For information about other accessories, please consult your local dealer.

**Caution:** Use the accessories approved by the Company only; otherwise, the Company shall not be liable for any losses or damages arising out of use of unauthorized accessories.

Type	Name
Microphone	SM16A3 Palm Microphone (available for CK02/CK03/CK02-E/ CK03-E only)
Speaker	SM09S1 External Speaker (available for CK02/CK03/CK02-E/ CK03-E only)
Remote Speaker Microphone	SM18A3 Remote Speaker Microphone (available for CK02/ CK02-E only)
	SM18A4 Remote Speaker Microphone (available for CK03/ CK03-E only)
	SM27W1 Wireless Remote Speaker Microphone (available for CK02-E/CK03-E only)
Earpiece	ESW01/EHW02 Wireless Earpiece (available for CK02-E/CK03-E only)
PTT	POA47 Wireless Ring PTT (available for CK02-E/CK03-E only)
Antenna	Vehicle RF antenna (available for CK02/CK03/CK02-E/CK03-E only)
	Vehicle GPS antenna (available for CK02/CK03/CK02-E/CK03-E only)