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1. Warnings

Operational Environment

This device and its antenna should not be co-located with or operated in conjunction with any other antenna or transmitter.

Important Safety Precautions

When using this product, the safety precautions below must be taken to avoid possible legal liabilities and damages. Retain and follow all product safety and operating instructions. Observe all warnings in the operating instructions included with the device.

DANGER Only use antennas and chargers approved by Thuraya. The use of any non-approved antenna and charger may be dangerous.

DANGER Allow only authorized personnel to service the Vehicle Kit. Unauthorized service can invalidate the warranty.

CAUTION Any modification of this product, including opening the unit, is prohibited and will void your warranty. Any use of the product or its components for purposes not expressly authorized by this document is prohibited and will void your warranty.

1. Warnings

Driving

Check the laws and regulations on the use of mobile phones in the area where you drive. If you are going to use your phone while driving, please:

- Give full attention to driving.
- Laws in many locations require vehicle handsfree solutions – this Vehicle Kit qualifies as a vehicle handsfree solution.
- Before using the suction cup mount on your windshield, check the local laws and ordinances where you drive. Some national laws prohibit drivers from using suction mounts on their windshields while operating motor vehicles. Other national laws allow the suction mount to be located only in specific locations on the windshield. Many other nations have enacted restrictions against placing “non-transparent material” on the windshield or placing objects on the windshield in locations that obstruct the driver’s vision.
- RF energy may affect some electronic systems in motor vehicles such as car stereo, safety equipment etc.

1. Warnings

Vehicles Equipped with an Air Bag

An air bag inflates with great force. Do not place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Power Supply

- This Vehicle Kit supports 12V/24 DC power only. Please use the proper DC power.
- Connect the power supply only to designated power sources as marked on the product.
- To reduce risk of damage to the electric cord, remove it from the cigarette lighter by holding onto the cigarette lighter adapter rather than the cord.
- Make sure the cord is positioned so that it will not be stepped on or otherwise subjected to damage or stress.
- To reduce risk of electric shock, unplug the unit from any power source before attempting to clean it.

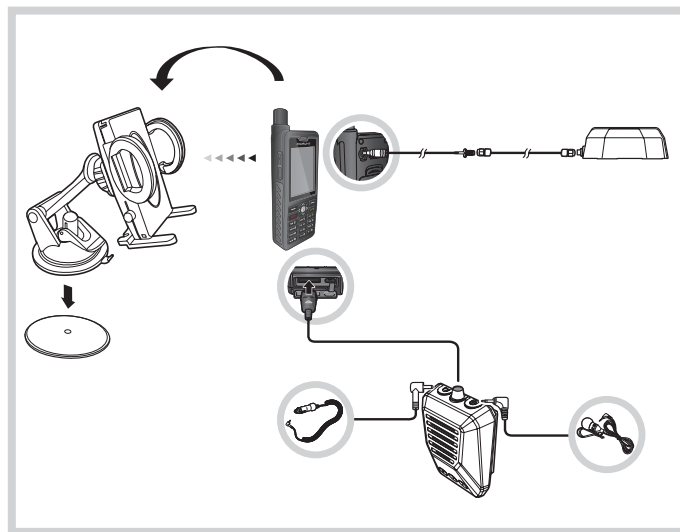
Children

Do not allow children to play with your Vehicle Kit as it contains small parts that could become detached and create a choking hazard.

2. Introduction

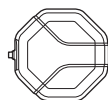
The Vehicle Kit allows you to use Thuraya satellite services in vehicular environments. It provides additional flexibility and convenience when using Thuraya handsets.

Installation overview



3. Getting Started

In the Box



Antenna



Loudspeaker



Cradle



Suction Mount



RF Cable



Adaptor RF Cable



Car Charger



Dashboard Mounting Disk

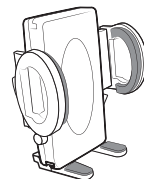


User Guide

3. Getting Started

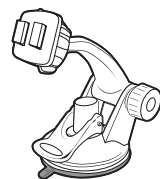
Component description

Cradle



Cradle

Holds Thuraya devices.



Suction Mount

Affixes cradle to windshield or adhesive disk.



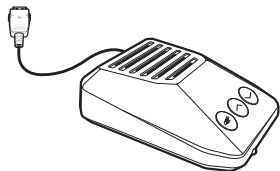
Adhesive Disk (optional use)

Enables suction mount to be adhesively mounted to dashboard if desired.

3. Getting Started

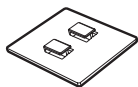
Component description

Loudspeaker



Loudspeaker

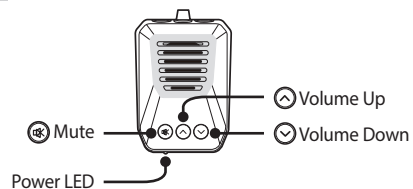
External loudspeaker with UDC Cable.



Mounting Kit

Affixes loudspeaker to dashboard.

Button Description

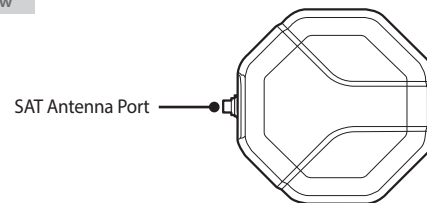


3. Getting Started

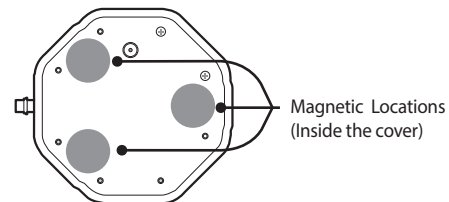
Component description

SAT Antenna

Top View



Bottom View



3. Getting Started

Component description

Accessories



SAT RF Cable

SMA(M) to SMA(M), 5 meters



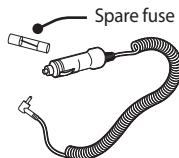
Adaptor RF cable

MCX to SMA(F) with connector.



Microphone

To be clipped onto the sun visor.



Car Charger

Supplies 12V/24V DC power to the speaker and SAT phone. 1 spare fuse included period missing.

4. Installation

Installation

Vehicle Kit Installation Steps

- 1 Selecting Proper Locations
- 2 Cable Routing
- 3 Antenna Installation
- 4 Cradle Installation
- 5 Loudspeaker Installation
- 6 Microphone Installation

Note

Installation procedures are general instructions. Cabling and Vehicle Kit location may vary depending on the type of vehicle.

WARNING

Do not turn on the vehicle and supply power to the Vehicle Kit until the installation is complete.

If vehicle is turned on before installation is complete, Vehicle Kit could be damaged and **warranty could be voided**.

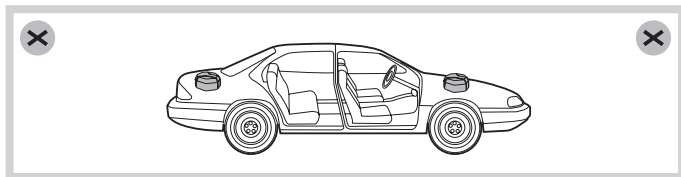
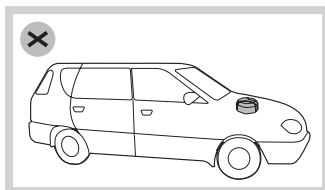
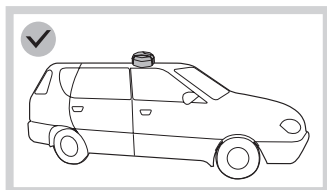
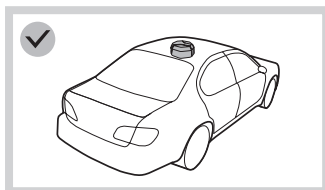
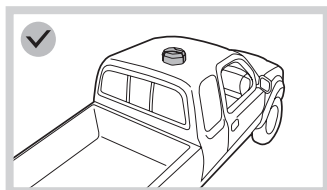
4. Installation

Step 1 – Selecting Proper Locations

Antenna Location

The antenna is designed for optimal performance when installed on the roof of your vehicle.

If it is mounted on the trunk or a lower surface, optimal performance may not be achieved.



4. Installation

Cradle Location

The cradle (phone holder) can be installed on the windshield or dashboard.

Speaker Location

The loudspeaker can be installed on the dashboard near the cradle.

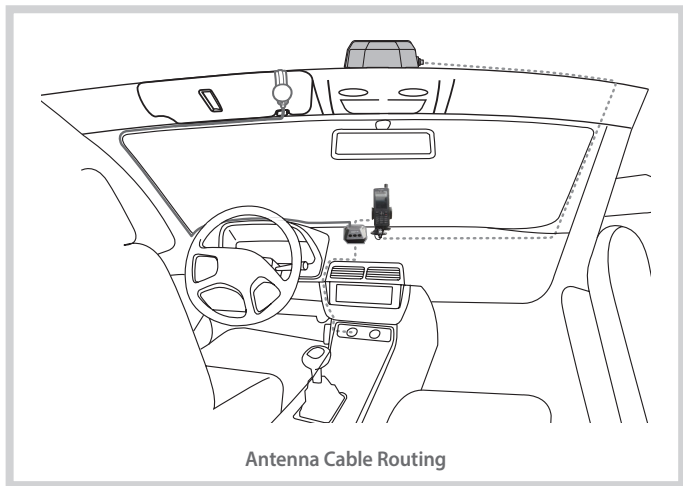
Microphone Location

The microphone can be installed on the sun visor. Please ensure enough distance between microphone and speaker to avoid interference.

4. Installation

Step 2 – Antenna Cable Routing

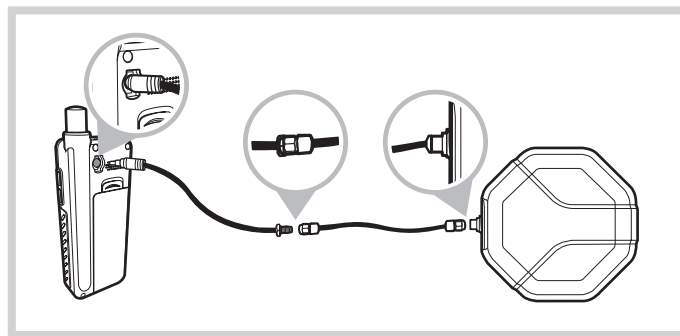
Connect the 5m RF antenna cable from the antenna to the cable adaptor. Arrange the RF antenna cable that the door or window closes properly and does not damage the cable.



4. Installation

Step 3 – Antenna Installation

The antenna must be mounted on conductive (metal) surface on the roof of the vehicle. The antenna should always be mounted outside, on the highest location of your vehicle. Do not mount the antenna inside the passenger compartment.



Antenna cable adaptor

Connect the antenna cable with the antenna cable adaptor that fits into the backside of the handset. In order to do that, remove the antenna cover on the handset first and slide the rubber connector firmly into the handset.

4. Installation

After the antenna cables are connected, ensure both the antenna bottom and roof surface where the antenna is to be installed are clean and free of debris. Place the antenna on the roof of the vehicle. The antenna is secured by the built in magnets.

WARNING

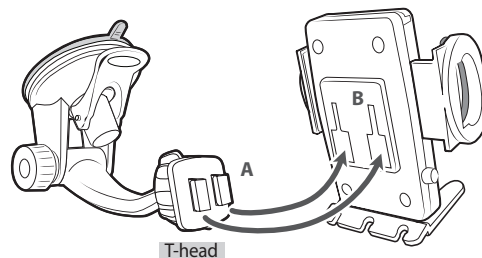
If you do not clean the roof surface, debris can scratch your vehicle and antenna.

4. Installation

Step 4 – Cradle Installation

Cradle Attachment

Attach the cradle to the dual T-head by inserting the dual T-tabs (A) into the dual T-slots (B) on the back of the cradle.



Cradle Attachment

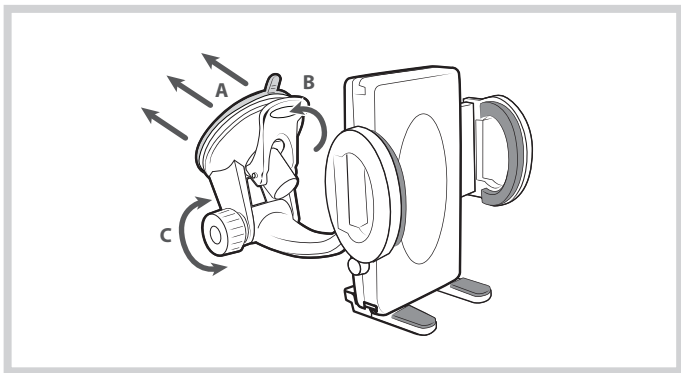
4. Installation

Windshield Mounting

Step 1: Find a safe location on the interior of the vehicle's windshield to mount the pedestal.

Firmly push the suction base (A) against the windshield and flip the base lever down (B) to the locked position.

Step 2: Adjust the angle of the pedestal arm by tightening the angle adjustment knob (C) at the base to the desired angle.



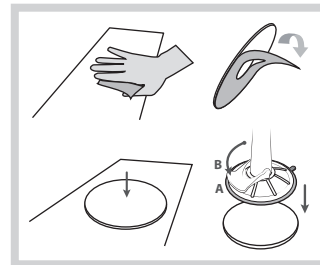
4. Installation

Dash or Console Mounting

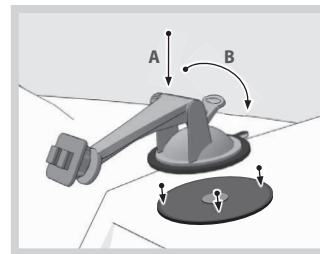
Step 1: Find a safe location on the dash or console.

Use the included pad to clean the mounting surface. Remove the paper backing on the adhesive disc and press firmly in place.

Let dry for 24 hours before applying mount.



Step 2: Place the pedestal's suction base (A) over the center of the circular disc. While firmly holding the pedestal on top of the disc, flip the base lever down (B) to the locked position.



4. Installation

SAT phone Insertion and Removal from Cradle

Step 1 Insertion:

Place the SAT phone into the holder with the device sitting on the support leg and close the handles.



Step 2 Removal:

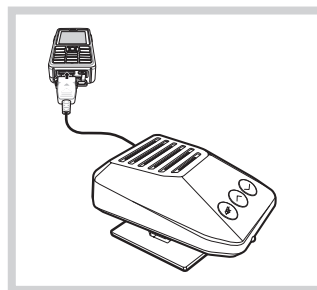
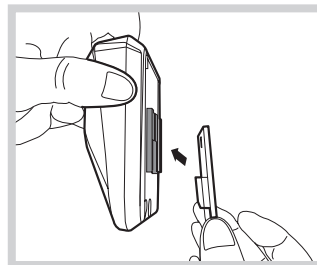
Press the release button to open the arms.



4. Installation

Step 5 – Loudspeaker Installation

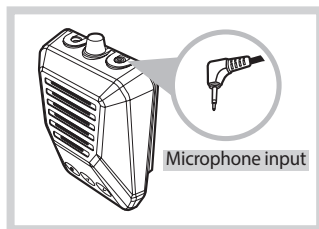
- 1 Attach the speaker holder into the bottom of speaker.
- 2 Remove the paper backing of the speaker holder and fix the speaker on the dashboard.
- 3 Connect the UDC connector of the speaker to the satellite phone.



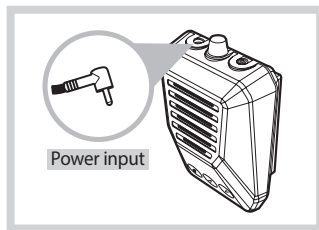
4. Installation

Step 6 – Microphone Installation

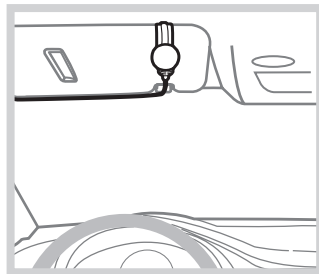
- 1 Insert the jack into the microphone input port.



- 2 Insert the DC power jack into the power input port.



- 3 Clip the microphone onto the sun visor of the car.



5. Technical Information

Specifications

Items		Specification
Cradle Assembly	Cradle	Holder depth: 20mm
		Side grip arms, closed: 45mm
		Side grip arms, opened: 80mm
	Suction mount	Gel type sticky suction pad
		Windshield or dash board mounting
		Dashboard disk
External Antenna	Frequency	1525Mhz - 1660.5Mhz
	Impedance	50 Ω
	Polarization	LHCP
	Axial ratio	< 4dB
	Gain	> 5dBic@peak
	Size	112ø
	Weight	180grams
	Mounting	Magnetic mounting
	Mounting place	On steel roof
	Height	36.5mm
	Material	ASA
	Operating temp.	-20°C to +70°C
	Connector	SMA (F) for SAT port
	IP grade	IP66

5. Technical Information

Specifications

Items		Specification
LoudSpeaker	Output	> 2.5Watt
	I/O	UDC connector for sat phone
		DC Power input (12V/24V)
Microphone		Microphone input
Antenna Cable	Mounting	Sunvisor clip mounting
DC Cable	RF Antenna cable	5 meters lenght, SMA (M) to SMA (M)
	RF cable adaptor	SMA (F) to MCX (M) with rubber stopper, 0.2M
	Cigarette cable	Coiled cigarette cable with protection fuse
Compatible Thuraya handsets		Cradle and Antenna: XT, XT-PRO, XT-PRO DUAL, XT-LITE, SatSleeve
		Loudspeaker and microphone: XT, XT-PRO, XT-PRO DUAL

6. Limited Warranty

This Limited Warranty is provided to the original purchaser of the Vehicle Kit. This Limited Warranty is nontransferable in nature.

Warranty Coverage and Service

APSI warrants all new Vehicle Kits to be free from defects in material and Workmanship under normal use and wear for a period of one year (1 year) from the date of purchase. If under normal use the product becomes defective in materials or workmanship and is returned to a manufacturer Authorized Service Center during the warranty period, the product will be repaired or replaced at no charge to the purchaser. The purchaser shall be required to provide reasonable proof of the date of purchase of the product. Repair or replacement of the Product is subject to the assessment of APSI's repair center. Reconditioned replacement components, parts, units, or materials may be used if the Product is repaired or replaced. Cost incurred in the removal, de-installation or reinstallation of the Product are not covered. This Limited Warranty will be void in its entirety if the Product is serviced by anyone other than APSI or an APSI Authorized Service Center. The User's sole and exclusive solution will be repair or replacement of the product. APSI neither assumes nor authorizes any Authorized Service Center or any other person or entity to assume any other obligation or liability beyond that which has been specified in this Limited Warranty.

Limitation of Liability

All liability and obligations of APSI under this Limited Warranty shall terminate on the completion of the warranty period of one year, calculated from the date of purchase of the product by the original purchaser. This limited warranty sets forth the entire responsibility of APSI with respect to the product. There are no other liabilities of APSI arising from the sale of the Product whether based on warranty, contract, negligence or any other theories of liability.

This Warranty does not cover the following

APSI will not be responsible for products or accessories not manufactured or provided by APSI or Thuraya. APSI will not take responsibility for the failures caused by misuse, accident, alteration or neglect, removal or repair, neglect or failure to follow instructions as to installation and maintenance, fire, flood or other natural calamities. APSI will not guarantee the performance of the product when used in combination with other non authorized products or equipment.

