

Thuraya Vehicle Docking Adaptor

Installation Manual and User Guide



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Introduction

By purchasing the Teknobil Next Vehicle Docking Adaptor (VDA), you have made an excellent choice toward getting the best from your Thuraya phone on the move. We appreciate your business, and we would like your experience with Teknobil Next VDA to be as smooth and beneficial as possible.

In view of the advanced technology involved, we strongly recommend professional installation by a qualified auto electrician. This installation guide has been prepared to provide the basic information necessary to install the Teknobil Next Thuraya VDA. The information given is for general guidance and future reference.

ⓘ Warning Please read this manual thoroughly before proceeding with the installation of your unit and pay special attention to the Important Legal and Safety Notices.

ⓘ Warning As a state-of-the-art accessory, Teknobil Next Thuraya Vehicle Docking Adapter (Thuraya VDA) is designed to be fully compatible with Thuraya phone software version 12.11.2001 and newer. If in doubt, type *#9999# on your Thuraya phone to reveal its software version which will show at the bottom of the screen. If the software version of your Thuraya phone is older than the specified date, you may experience compatibility problems when using it with the VDA, and hence you are strongly recommended to take your Thuraya phone to your supplier for a free software upgrade.

Features

Your unit extends the seamless connectivity provided by your Thuraya phone to vehicles on the move. Enriched with features that are designed to make your journeys more comfortable than ever, your Thuraya VDA will become an indispensable part of your life.

The main features of your unit are the following:

- Full duplex hands-free voice communication
- Unlimited talk time using DC power supplied by your vehicle's battery
- Privacy handset
- Compatibility with both GSM and satellite modes
- Acquiring GPS data in the vehicle
- Charging Thuraya phone's battery
- Computer port for data communication and Internet access
- Car radio mute
- Works with both Hughes & Ascom Phones
- Vehicle tracking (optional)

Component Parts

Carefully unpack the equipment and ensure that all component parts are present. If any component part is missing, please do not proceed with installation and contact your local dealer immediately. The main parts of your unit are shown in Figure 1.

Control Box

Houses the electronic circuitry of your unit. By using your vehicle's power supply, provides the power necessary for the operation of the VDA and for charging your Thuraya phone.

VDA Holder

Ensures that your Thuraya phone is firmly docked into the VDA. You can adjust the Control Box settings by using the buttons on the VDA Holder.

Mobile (SAT, GSM & GPS) Antenna

Your Thuraya phone, when docked into the VDA, can communicate with the Thuraya satellite and GSM 900 networks, and receive GPS signals by using this external antenna. The mobile antenna cable is 2.75 meters long.

Privacy Handset

Use this when you need privacy, rather than talking in hands-free mode, during a call. Connected to the Control Box Handset Jack.

Hands-Free Speaker

When driving or in other situations you can use the Hands-Free Speaker. Connected to the Control Box Speaker Jack.

Hands-Free Microphone

Picks up and conveys your voice in the best way. Connected to the Control Box Microphone Jack.

Mounting Unit

Used to attach the VDA Holder to your vehicle's interior.

Power Cable

Connected to the control box via a 4-pin connector which has the following 3 leads:

- Fused red lead should be connected to the positive (+) terminal of your vehicle's battery.
- Black lead ground (GND) should be connected to a clean, unpainted part of your vehicle.
- White lead should be connected to the car radio mute signal input if that is available.

Fuse

Should be connected between the battery and the red lead of the Car Interface Cable. For maximum safety, place the fuse as close to the battery as possible.

Mounting Legs

Used to fix the Control Box to the interior of your vehicle.

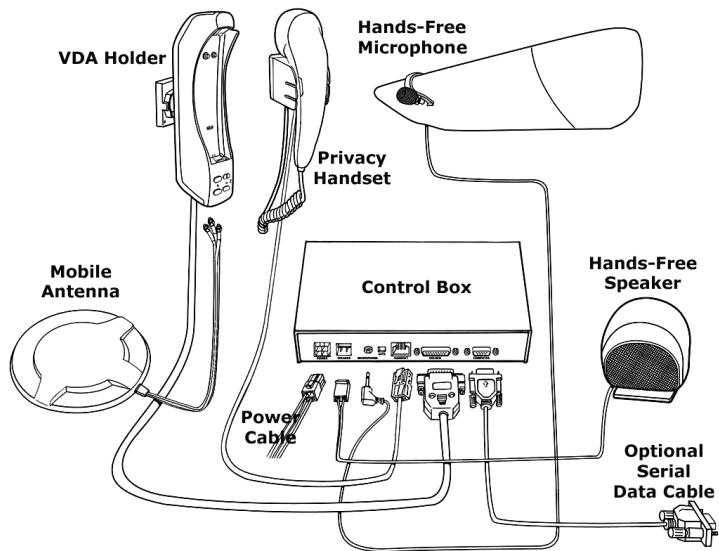


FIGURE 1 Main Components of Your VDA

Installation

Before You Install

Please read the Safety Precautions carefully and strictly adhere to the following points:

- Professional installation of your VDA by a qualified auto electrician is strongly recommended. In other words, unless you have a very good reason, you must use professional help for installation.
- If your vehicle has airbags, make absolutely sure that airbag deployment area is free of any objects including installed or portable equipment. As airbags inflate instantly and with great force, improper installation of portable components of your unit could result in serious injury if an airbag inflates in such a case.
- Use the supplied fuses for wiring.

ⓘ Warning Your unit runs on a negative ground 12V electrical system. Connecting your unit to a power supply with different voltage or polarity can damage your equipment. Most trucks have 24V DC supplies. In such cases, you must seek professional help to obtain 12 V DC power supply for your VDA.

ⓘ Warning Make sure the supplied fuse is properly installed. Otherwise, you may risk fire in the unlikely event of a short circuit in the system.

The installation of VDA components may vary according to the make and model of your car. Suggested positioning of the components is show in Figure 2:

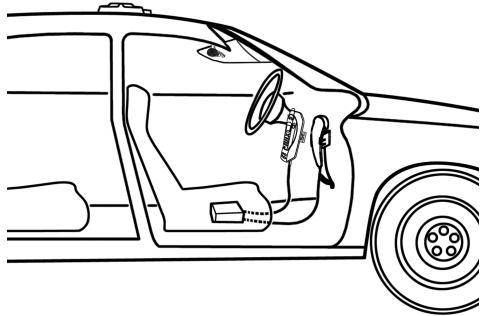


FIGURE 2 Positioning of VDA Components in Your Vehicle

Mounting the External Antenna

The External Antenna is required for satellite communication when the Thuraya phone is used inside a vehicle. The antenna should be mounted on the roof of the vehicle with an unobstructed view of the sky. You can attach it to the roof of the vehicle using the built-in magnets. Please refer to Figure 3 for recommended cable routing for the External Antenna.

The External Antenna has a magnetic base and it is connected to the VDA holder with a thin and flexible triple coaxial cable. This is to allow you to remove the antenna easily and put it in the vehicle in case you need to park your vehicle in an area where you do not feel safe to keep the antenna outside the vehicle. You can easily re-route the cable through the door and put the antenna back on if you need to remove the antenna temporarily. A normal automobile door with rubber sealing will not harm your cable if it is routed with care.

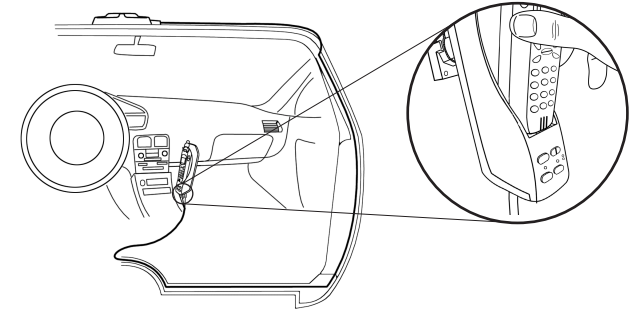


FIGURE 3 Cable Routing for the External Antenna

Take your time to find the best cable route for your vehicle then connect the cables to the indicated connectors on the Holder:

- Red lead to the GPS connector
- Black lead to the GSM connector
- White lead to the Satellite connector

Caution

The External 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, satisfactory performance may not be possible.

Installing the VDA Holder

You may install the VDA Holder anywhere in the front section of the vehicle by fixing the Mounting Unit. The Mounting Unit must be fixed to the interior of your vehicle firmly. Ensure that the driver can easily reach the keypad. Figure 4 shows how to mount the VDA Holder on the Mounting Unit.

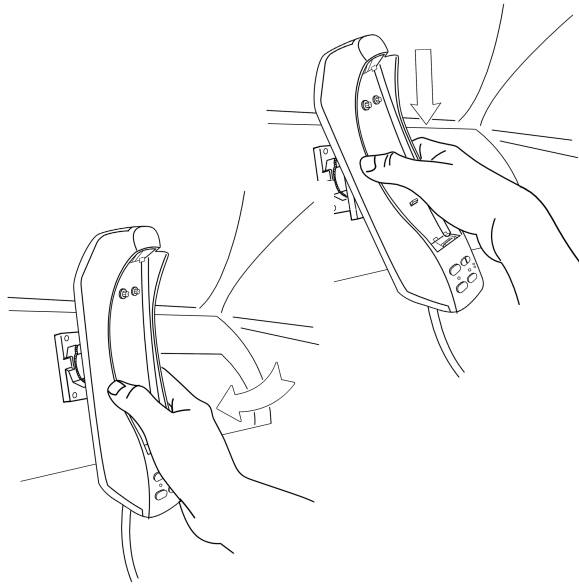


FIGURE 4 Installing the VDA Holder

Installing the Control Box

The Control Box can be placed under the seat or any safe place. Using the mounting legs fasten the control box tightly to the vehicle's interior as shown in Figure 5.

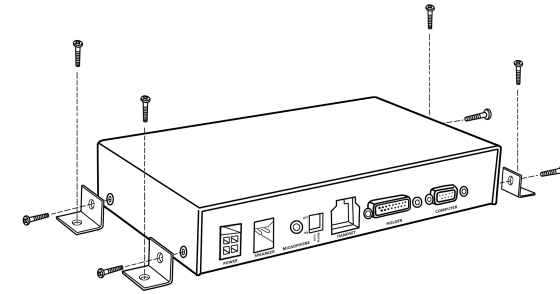


FIGURE 5 Installing the Control Box

Follow the exact sequence below for your safety and to avoid any damage to your unit:

- Turn off the ignition and disconnect the vehicle battery.
- Connect the leads to the Control Box and ensure that the Red lead is connected the last.
- After you connect one end of each lead to the Control Box, refer to Figure 6 and proceed with the following connections:
 - Black lead to a clean, unpainted metallic part of your vehicle for proper grounding.
 - White lead to the mute input of your car audio system, if applicable.
 - Red lead to the positive terminal of your vehicle's battery.
 - Microphone and the Speaker to the Control Box.
 - Holder cable to the Control Box.
 - Privacy Handset to the Control Box.
 - Car interface cable to the Control Box.

The above instructions describe how to power your Control Box from your vehicle's battery. In this case, your unit will operate, charge your Thuraya phone and thus consume power regardless of whether your car is running or not. Alternatively, you may prefer to power your Control Box from the ignition switch. In this case, your unit will operate, charge your Thuraya phone and consume power only when the ignition is ON.

- to
- ❗ **Warning** Your unit runs on a negative ground 12V electrical system. Connecting your unit to a power supply with different voltage or polarity can damage your equipment. Most trucks have 24V DC supplies. In such case, you must seek professional help to obtain 12 V DC power supply for your VDA.
 - ❗ **Warning** Make sure the supplied fuse is properly installed. Otherwise, you may risk fire in the unlikely event of short circuit in the system.

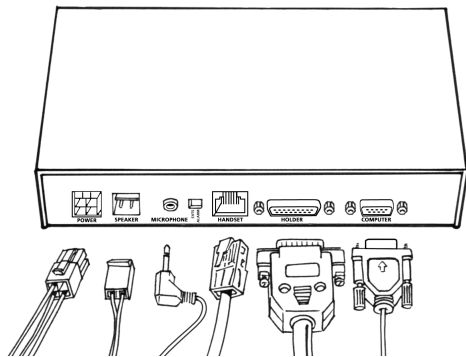


FIGURE 6 Control Box Connection Diagram

Cable Routing

- Ensure that all connections are firm and stable.
- Ensure that cables will not interfere with or will not be damaged by moving parts in your vehicle.
- If possible, use existing slots and channels in the vehicle for connection.
- Route the cables so that they will not tangle or interfere with the movement of seats, pedals, and emergency brakes.
- Avoid routing cables under floor mats in foot traffic areas so they will not get entangled with your feet.
- Route the cables so that they will not cause electrical interference.
- Be sure to cut the car interface cable to the necessary length, and then install the fuse holders where they are easily accessible.

Caution – Power Limits

Exceeding the following input voltage and current values causes the power fuse to open and it will have to be replaced:

- Maximum input voltage: 14 volts
- Maximum input current: 1.5A

Installing the Privacy Handset

Using the two screws fasten the handset tightly to a flat surface in the vehicle as shown in Figure 7.

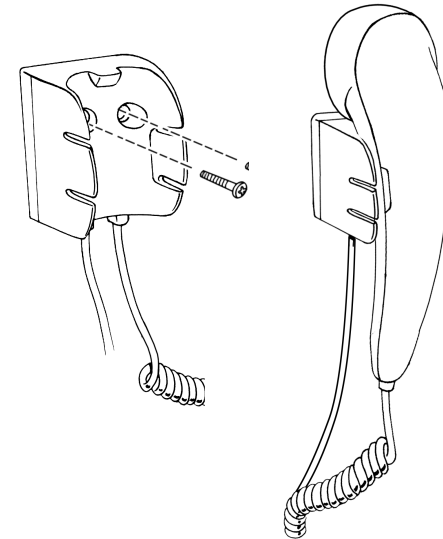


FIGURE 7 Installing the Privacy Handset

Installing Hands-Free Microphone

The hands-free microphone must be placed as close to the driver's mouth as possible (30–35 cm) and point directly to the mouth. A recommended location for the microphone is above the sun visor as shown in Figure 8. It is not recommended to place the microphone on the steering wheel or on the dashboard. The microphone should be firmly fastened for best sound quality. Route the microphone cable and secure it with commercially available tape so that it will not interfere with driving.

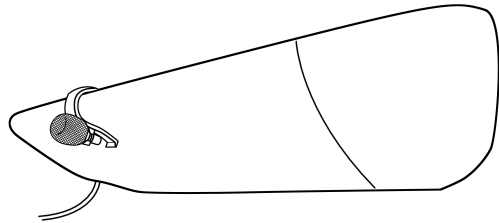


FIGURE 8 Installing the Hands-Free Microphone above the Sun Visor

Installing the Hands-Free Speaker

Ensure that the speaker is at least 80 cm away from the microphone to ensure that the voice is echo-free. Do not place the speaker behind any lining as this may reduce the speaker volume. To fasten the speaker, refer to Figure 9 and do the following:

- Detach the speaker from the bracket.
- Secure the bracket to an appropriate flat surface in the vehicle using four screws.
- Remount the speaker onto the bracket.

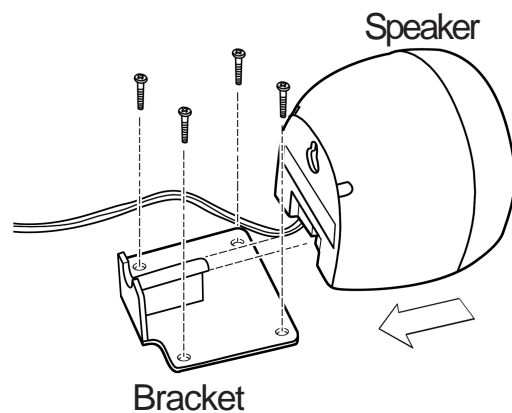


Figure 9 Installing the Hands-Free Speaker

Testing the Installation

Your VDA is a high-technology product enabling in-vehicle use of your Thuraya phone and bringing many features to your Thuraya experience. For your unit to work satisfactorily and not to impair the driver or your car, please ensure that you fully test it after installation.

For this purpose, start your vehicle and ensure that you hear the sound of the engine working normally. Check brake lights, headlights, air conditioning and windshield wipers to see that they operate properly with the VDA installed.

Use the Thuraya phone to make a call when the vehicle is parked and the engine is running. During the call, switch off the engine. Ensure that Thuraya phone operates with the engine running and with the engine turned off. For information about using your Thuraya phone, refer to the Thuraya phone user guide.

Check that the Car Interface Cable and the External Antenna Cable do not interfere with opening and closing the doors and the trunk, or with moving the sun visor, steering wheel, brakes, gear shift or seats.

Ensure that all components are secured and do not shift when the vehicle is in motion or when it comes to a stop.

Operation

Getting to Know Your VDA Holder

Figure 10 shows the location of the buttons and the indicator lights on your VDA Holder.

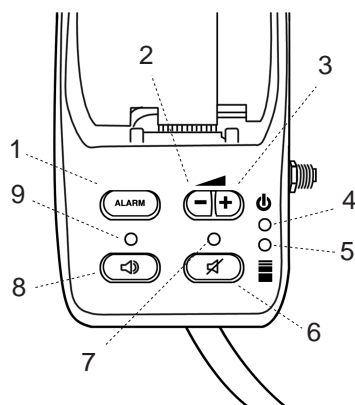


FIGURE 10 Buttons and Indicator Lights on the VDA Holder

1. Alarm Button Sends an alarm message to the Control Center if the SVTS dip switch is in the ON position and if you are an SVTS user. If you are not an SVTS user, when the Alarm dip switch is set to the ON position, the Alarm button dials the first number in the phonebook or, in case the phonebook is empty, dials the emergency operator at 112. Please refer to Table 1 for an explanation of setting the dip switches.
2. Volume Down Button Decreases the volume by one step.
3. Volume Up Button Increases the volume by one step.
4. Power Indicator Red when the VDA is powered; off otherwise.
5. Battery Charging Indicator Red when charging is in process; turns Green when fully charged.
6. Mute Button Temporarily cuts off the Hands-Free and Handset Microphone.
7. Mute Indicator Red light shows Microphone is muted; off otherwise.
8. Mode Selection Button Toggles between hands-free operation and handset operation.
9. Hands-Free Mode Indicator Red light shows Hands-Free Mode; off in the Handset Mode.

Turning on Your Unit for the First Time

Attaching Thuraya phone to the VDA Holder

i Warning Failing to remove the rubber dust cap behind Thuraya phone may damage the VDA Holder. In such a case, your warranty will be void.

- Remove the rubber dust cap behind Thuraya phone.
- Firmly insert the bottom of the Thuraya phone into the bottom of the VDA Holder as shown in Figure 11.
- Push Thuraya phone toward the VDA Holder until you hear a firm click.

Now you should see message "Vehicle Docking Adapter Connected" on the screen of your Thuraya phone.

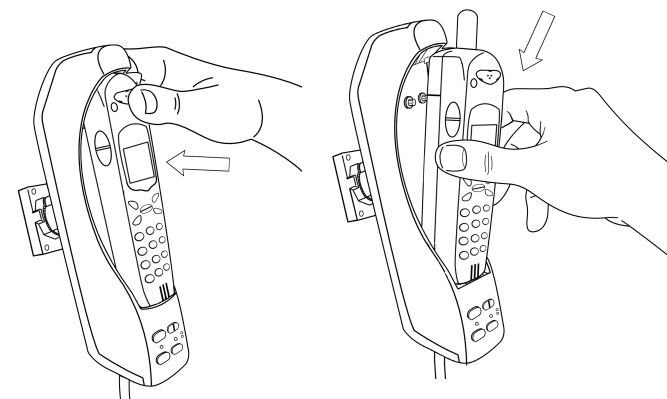


FIGURE 11 Pushing Thuraya phone Toward the Holder

Removing Thuraya phone from the VDA Holder

Using your index finger, gently pull Thuraya phone out of the VDA Holder as indicated by Figure 12.

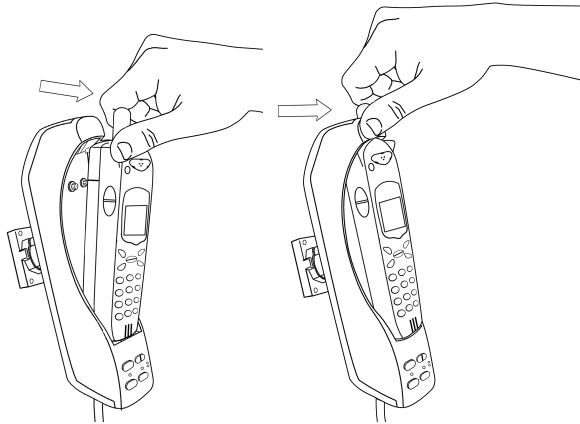


FIGURE 12 Removing Thuraya phone from the VDA Holder

Setting the Smart Vehicle Tracking System (SVTS) and the Alarm Dip

Switches If you are using the optional SVTS service (see The Smart Vehicle Tracking System), this switch must be in the ON position. Table 1 explains the combined operation of these two switches that are shown in Figure 13. The shaded row shows the default setting.

STVS Switch	Alarm Switch	SVTS Enabled	Result When the Alarm Button in Pressed
On	Does not matter	Yes	A message is automatically sent to the SVTS Control Center.
Off	On	No	VDA calls the first number in your phonebook is not empty; calls Thuraya's general emergency number (112) if it is empty.
Off	Off	No	Alarm button has no function.

TABLE 1 How the SVTS and Alarm Dip Switches Work

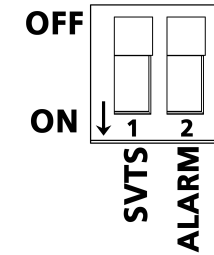


FIGURE 13 Setting the SVTS and Alarm Switches

Making Calls with the Handset

Your VDA is in the Handset mode when the Hands-Free indicator is off. If this indicator is red (ON) and you would like to make a call with the Handset, simply press the Mode Button to switch to the Handset mode.

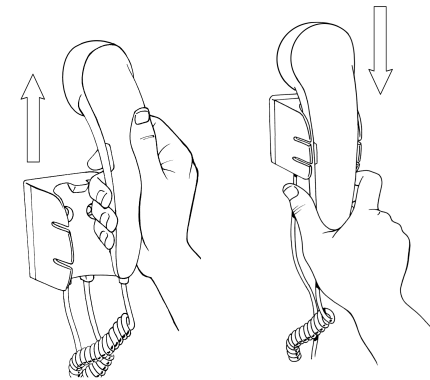


FIGURE 14 Lifting and Replacing the Privacy Handset

Making a Call with the Handset

- Lift the Privacy Handset as shown in Figure 14.
- Dial the number using the keypad of your Thuraya phone.
- Press the Call button on Thuraya phone.

Answering a Call with the Handset

- Lift the Privacy Handset or
- If the Hands-Free Mode Indicator is OFF, press the Accept button on Thuraya phone.

To End a Handset Mode Call

- Press the End button on Thuraya phone, or
- Replace the Handset.

Making Calls With in the Hands-Free Mode

Your VDA is in the Handset mode when the Hands-Free indicator light is ON. If this indicator is off and you would like to make a Hands-Free call, simply press the Mode Button to switch to Hands-Free.

Making a Hands-Free Call

- Dial the number using the keypad of your Thuraya phone.
- Press the Call button on Thuraya phone.

Answering a Call Hands-Free

- Press the Accept button on Thuraya phone.

For your comfort, do not use the Hands-Free mode if the prevailing background noise in your vehicle makes it difficult for either party to carry out a conversation.

Sending SMS Messages

When docked in the VDA, your Thuraya telephone can send and receive SMS messages normally. For a more convenient way of sending SMS messages, please refer to the section of the Thuraya Manager Software.

Data, Fax and Internet Connections

You can make use of the data features of your Thuraya phone in your vehicle by connecting a computer to the VDA using a 9 pin RS-232 cable. For this to work, data functions on your Thuraya SIM card should be enabled. Once the connection is made as described, you will first need to define your Thuraya phone as a modem under Windows, and then define a new dial-up network connection.

Adding Your Thuraya Phone as a Modem under Windows 2000

After ensuring that the Thuraya phone is firmly docked in position and a serial cable (not supplied) is securely fastened to the VDA, follow these steps to configure your Thuraya phone as a modem:

- Go to Start > Settings> Control Panel>Phone and Modem Options.
- In the Phone and Modem Options dialog window, select the Modems tab and then click on Add.
- When you invoke the Install New Modem dialog box check the box beside "Don't detect my modem; I will select it from a list" then click Next.
- In the dialog window that now appears, select "Standard Modem Types" in the Manufactures box and "Standard 19200 bps modem" in the Models box, then click Next.
- When you are asked to select the port you would like to use, choose the port where the data cable is connected (e.g. COM1), then click Next.
- Windows will now report that the new modem has been successfully installed
- Click Finish to end

Direct Dial-Up Access to the Internet*

Now your computer recognizes Thuraya phone as a modem. All that is left is to make a new connection that will use the newly introduced Thuraya phone modem.

- Go to Start>Programs>Accessories>Communications>Network Dialup Connections
- Follow the Network Connection Wizard's instructions to make a New Connection
- Select Dial-up to the Internet and click Next
- Choose "I want to setup Internet connection manually" and continue
- Select Connect through phone line and modem, click Next
- Select the Standard 19200 bps Modem as the modem this connection will use and continue

(* These instructions are valid for connecting to ISP's other than Thuraya as well. If you would like to use a connection to a particular ISP, you will need to define a similar connection using your ISP's guidelines with a different set of telephone number, username and password. For your convenience, a detailed version of these instructions, complete with screenshots, is available on Teknobil's web site at www.teknobil.com.tr.

Optional Smart Vehicle Tracking System (SVTS)

Your VDA is much more than a simple car kit for your Thuraya phone. The VDA forms the basis of a full-fledged, Thuraya-based smart fleet management system that can be purchased from Teknobil separately. All you need to activate the fleet management features of your VDA is to contact Teknobil.

Once you are subscribed to the SVTS service, you will need to set the SVTS switch in the Control Box to ON position. If you turn off your SVTS switch, the vehicle cannot be tracked until the SVTS switch is set to the ON position.

Fleet Management Features of Thuraya VDA when Used with SVTS

The main piece of information acquired, stored and forwarded by your VDA is the exact location of your vehicle obtained through GPS. By adding optional data acquisition modules, you can also have the VDA process and report other information like the temperature in a certain section of your vehicle, the position of a certain lock or the reading on the fuel gauge. Therefore, the following fleet management features of your VDA are equally valid for other types of information as well as position information:

- Send vehicle position and speed to the Control Center via SMS or data link upon request (polling).
- Send vehicle position in pre-defined periods (e.g. every 15 minutes).
- Record vehicle position and speed in pre-defined periods into the on-board memory.
- Allow the Control Center to download stored information through Thuraya data link.
- Send recorded information to the Control Center in pre-defined periods (e.g. every 24 hours). Thereby feeding the central database with up-to-date information so that full information from all vehicles is made available to the Control Center for decision support and other purposes.
- Alert the Control Center and send position information when the Alarm button is pressed.
- Store and forward a record of when it is powered off and when it is powered back on.
- Provide detailed event-based reporting services when the vehicle:
 - exceeds the speed limit for a pre-defined period of time
 - remains idle more than a pre-defined period of time at any location outside pre-defined (home) locations
 - eaves its given route
 - passes through a checkpoint.
 - enters or exits a specified region.

- Enter 1722 in the Telephone Number field and uncheck "Use area code and dialing rules" if it was checked.
- Supply blank fields for both user name and password when prompted by the wizard.
- Ignore the two warning messages regarding username and password; you need not supply a username or password for connecting to Thuraya's 1722 service.
- Give a name to your connection e.g. "Thuraya VDA Internet Connection" and click Next
- Click Finish to end.

Your connection is now ready to be used. You may access this connection through Settings Network and Dialup Connections from the Start menu.

Sending and Receiving Faxes

You will need a Class 2.0 fax software to be able to use the fax features of your Thuraya phone through the VDA. Configure your fax software to use the Standard 19200 bps Modem which you installed earlier for the Thuraya connection. Use your fax software's normal routines to send and receive faxes.

Optional Thuraya Manager Software

Developed by Teknobil especially for Thuraya users and available for purchasing separately, The Thuraya Manager is an indispensable tool making your experience with your Thuraya phone easier, more comfortable and more effective than ever! By using the Thuraya Manager you can:

- Read, edit, save and backup your phonebook on Thuraya phone
- Send, receive and save SMS messages with the convenience of your computer's keyboard
- Send multiple SMS messages at one go
- Track your location on a digital map of the world on your notebook

Thuraya Manager runs under Microsoft Windows (98, 2000 and XP). You can download a trial version of the Thuraya Manager from www.teknobil.com.tr.

The SVTS Control Center

Your VDA acquires, stores and forwards all the required information. You also need a Control Center to receive and process this information from one or more vehicles depending on the size of your fleet. The Control Center has the following components:

- SVTS software
- Control Center Communication Unit (CCCU)

The CCCU consists of a Thuraya phone and a Thuraya Docker (Fixed Package), and includes the required satellite and GPS antennas.

The communication between the SVTS software in the Control Center and the VDA is performed via a pair of CCCU's connected to the server computer. The SVTS software acquires the information coming from the vehicle units through the CCCU's, displays the position on a digital map, and records the information in the SVTS database.

Main Features of the SVTS Software

SVTS has a client-server architecture and thus supports multiple computers and users. To support possible high traffic requirements of large fleets, the SVTS software is capable of working with multiple CCCU's. The system is modular and expandable; adding more vehicles to the system is a simple task. The following list summarizes the main features of SVTS:

- Capability to remotely set VDA parameters like the data saving and sending period.
- Handling event-based reports coming from VDAs and alerting the System Administrator.
- Displaying vehicle information on digital maps as in Figure 15 either by plotting the current coordinates or by drawing the routes followed over a specified period.

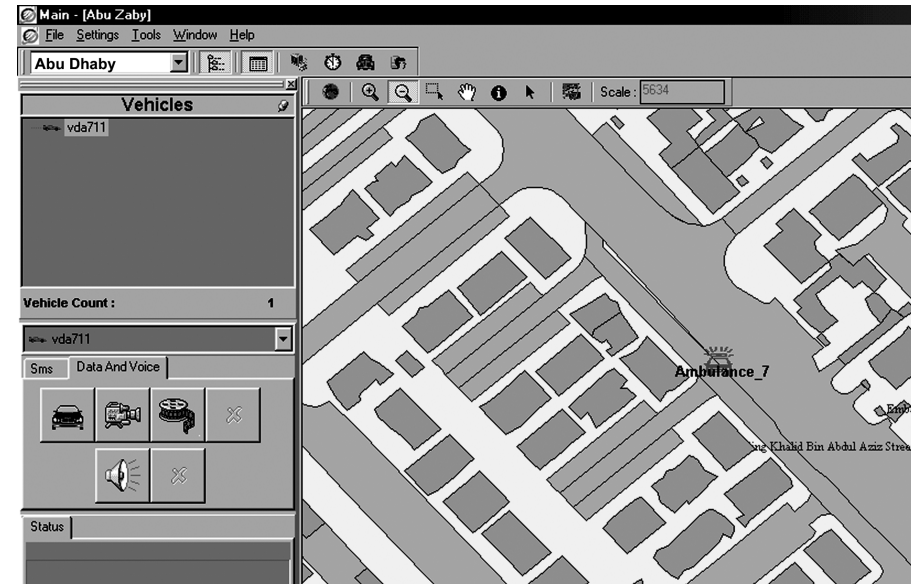


FIGURE 15 Part of Sample SVTS Screen on Detailed Street Map

Technical Specifications

Electrical Specifications

Operating Voltage	12 VDC nominal (min 11VDC / max 14VDC)
Stand-by Current	80 mA max (without charging)
Operating Current	1.5A max (including charge current)
Operating Temperature Range	-20 to +55°C
Storage Temperature Range	-55 to +85°C
Audio Power Output	7W max (to speaker)

Mechanical Specifications

Connectors on Holder	3 x RF connectors (SMA female)			
Connectors on Control Box	Power connector Speaker connector Microphone connector (mono jack) Handset connector (RJ-45) Computer RS-232 port (DB-9) Holder port (DB-26)			
Dimensions	(cm)	L	W	H
	Control Box	19.5	11.2	3.9
	Holder	21.5	6	6
	Speaker	8.5	7.5	6.5
	Handset	17.5	4.5	4
Total Weight	2.2 kg			

Important Legal and Safety Notices

Your unit is fully tested for your safety. However you may still cause serious personal injury and/or property damage if you do not follow the instructions in this section.

Antenna Care

Use only supplied Teknobil Next Antenna. Unauthorized antennas, modifications or attachments could damage your Thuraya phone.

Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. If using your Thuraya phone while driving, please:

- Give full attention to driving
- Use only Hands-Free operation
- Pull off the road and park before making or answering a call if driving conditions require you to do so.

Pacemakers

You must consult your cardiologist if you wish to use any mobile phone with your cardiac pacemaker as the various brands and models of pacemakers in the market have different immunity levels to radio signals. In any case, you are recommended

- to maintain a distance of 15 cm between your pacemaker and your mobile equipment
- not to bring your chest close to the mobile equipment
- to refer to your pacemaker product literature for information on your particular device.

If you have any reason to suspect that interference taking place, turn off mobile phone immediately!

Hearing Aids

Most new models of hearing aids are immune to radio frequency interference from mobile phones that are more than 2 meters away. Some are also immune to interference when the mobile phone is brought up to the same hearing-aided ear. Many types of older hearing aids may be susceptible to interference, making it very difficult to use a mobile phone. Should interference be experienced, there are things that can be done which may improve the situation:

- If possible use the mobile phone with your non-aided ear.
- Use Hands-Free function of the Teknobil Next Thuraya Vehicle Docking Adaptor

Warranty Card

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone OFF in any facility where posted notices require you to do so.

Blasting Areas

Never use the mobile phone where blasting work is in progress. Observe all restrictions and follow any regulations or rules. Areas with a potentially explosive environment are often, but not always, clearly marked. Do not use the mobile phone while at a filling station. Do not use near fuel or chemicals.

For Vehicles Equipped With an Airbag

Do not place objects, including either permanently installed or portable mobile phone in the area above the airbag or in the airbag deployment area. If an in-vehicle mobile phone is improperly installed and the airbag inflates, it could result in serious injury.

Limitation Of Teknobil's Liability

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT WILL TEKNOBIL, ITS SUPPLIERS OR RESELLERS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES ARISING OUT OF THE USE OF OR INABILITY TO USE THE PRODUCT OR CONTENT, INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF ADVISED OF THE POSSIBILITY THEREOF, AND REGARDLESS OF THE LEGAL OR EQUITABLE THEORY (CONTRACT, TORT OR OTHERWISE) UPON WHICH THE CLAIM IS BASED. THE BUYER OR USER AGREES WITH PURCHASING THIS PRODUCT THAT HE OR SHE MAY NOT RECOVER ANY AMOUNT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF PROFIT, LOSS OF YIELD AND AMOUNTS EXPENDED IN USING OR TRADING THIS PRODUCT. THIS LIMITATION OF LIABILITY SHALL BE APPLICABLE TO ANY CLAIM PRESENTED TO TEKNOBIL WHETHER THE LEGAL THEORY FORMING THE BASIS OF SUCH CLAIM INVOLVES CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE. IF THIS PRODUCT IS PROVED TO BE DEFECTIVE, THE EXCLUSIVE REMEDY, AT TEKNOBIL'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE PRODUCT. THE BUYER AND USER AGREE THAT IF TEKNOBIL REFUNDS AN AMOUNT EQUAL TO THE PRICE THE BUYER OR USER PAID FOR TEKNOBIL'S PRODUCT, THIS LIMITATION OF LIABILITY WILL NOT HAVE FAILED IN ITS ESSENTIAL PURPOSE. UNDER ANY CIRCUMSTANCES, TEKNOBIL'S LIABILITY WILL NOT EXCEED THE PURCHASE PRICE OF THE ACCESSORY FROM AN AUTHORIZED TEKNOBIL DISTRIBUTOR, WHICH WILL BE PROVEN BY PRESENTING A VALID INVOICE.

One Year Full-Confidence Warranty

This product is guaranteed by Teknobil for one year against manufacturing defects. The warranty expressly excludes problems caused by misuse or mishandling of the product. If you feel that your product is not performing properly and it needs to be serviced, contact Teknobil by mail or E-mail at:

Teknobil International, Ataturk Airport Free Zone
81/A-B, Ofis Plaza No: 923, Bakirkoy, Istanbul, 34830, Turkey
info@teknobil.com.tr

Return postage and insurance are the responsibility of the person returning the merchandise. Teknobil will return your product postage paid and insured if it is under warranty. Any products no longer under warranty will be returned at the owner's expense. When returning your accessory for evaluation and repair, be sure to include your name, address, daytime phone number and a letter explaining the specific problem you have encountered. Your approval will be obtained should we need to incur any expenses on your behalf.

	Customer	Seller
Name		
Telephone		
Fax		
E-Mail		
Street Number		
City		
State/Province		
Zip/Postal Code		

Original date of purchase ____/____/____.

Please mark the Return Authorization Number clearly on every package to be sent to Teknobil! Indicate on your invoice that you are sending the unit for service and/or repair!

