

## Step 1. Install

You should first charge your unit for 3 hours using the wall charger. Make sure the battery is installed and use the USB cable to connect the unit to the charger then press the power button for 2 seconds. When charging the power light will remain on solid until finished.

**Tip:** The battery cover will not close if the battery clip is not fastened properly.

### Inserting the SIM card

After charging the unit you need a SIM card so you can communicate with your T22. Before inserting or removing the card, remember to power off the T22 by pressing the power button for 2 seconds.

**Ensure that the SIM card is not protected by a PIN number** – this can be done by inserting the SIM into a suitable mobile telephone and then following your mobile telephone instruction booklet to remove the PIN lock. Your SIM account must be setup to allow SMS (text) messaging.

Remove the battery cover and remove the SIM holder as shown in the photograph. You can use a pen to push the yellow button then pull out the SIM holder. Place your SIM in the holder and push back into the unit.

After the SIM is installed then make sure the battery is installed and turn on the power to the unit. The Power light should flash every 5 seconds. The GSM light will be red for a minute and will turn off when connected to the GSM network. If the light remains red then check the troubleshooting section.

### Mounting T22

You have 3 main options for installation, **portable install** using the built-in battery, **quick install** using the cigarette lighter adapter or **full install** that connects to vehicle power and ignition.

#### Portable Install

Turn the power on – check that the power light is flashing every 5 seconds. If the power light is off the unit may be sleeping to conserve the battery – just tap the unit to wake it up. Ensure the unit is placed facing the sky following the guidelines in the quick install. Check that the GPS light goes off when outside. For backpacks or bags try to place the unit at the top of the pack facing up. For vehicles the unit can be placed in a tissue box, glove box or in a pillow in the back window. For motorcycles or scooters place in a storage compartment – the unit can also be placed in a sock to prevent damage.

The battery should last several days depending on usage, so turn on Power reporting (send P to unit) to notify you when the battery needs charging.



Removing the SIM holder.



T22 Cigarette Lighter Adapter and USB cable.

### Quick Install

Turn the power on – check that the power light is flashing every 5 seconds. Plug the power cable into a cigarette lighter plug, preferably one that is also powered when the ignition is turned off.

Your T22 must be placed with the Tramigo Logo on top facing to the sky. This is to allow your T22 to determine its location from the signal made by GPS satellites orbiting the earth. Materials such as metal, metallic window tinting, and rear window defoggers must be avoided because they can block these signals. If you are parked inside a building or under any structure you will not get a location until you have a clear view of the sky. T22 is designed to be used outdoors only, since GPS signals inside a building are weak. In case of no GPS signal Tramigo T22 reports the last position. The message will indicate it as “old position”. Please check User Manual for more details.

In general, you can expect that a mounting situation on or near the dashboard of your vehicle will be satisfactory. You can use the Velcro fasteners to secure your T22 to the dashboard. In many vehicles your T22 will work in the glove box, center console or even under the passenger seat.

When you have selected a location leave the T22 there for a minute and check the red GPS light – it will turn off when your T22 knows its location. If the light remains red then check the troubleshooting section. You can also use the optional external GPS antenna to reach a good location inside your vehicle.

**Tip:** Several types of tinting are available from companies such as 3M film, Madico CharcOOI, Huper Optik Ceramic (Stark), and FormulaOne Pinnacle (ceramic film) that allow electronic signals through.

### Full Installation

If you decide to mount the T22 covertly e.g. under the dashboard, have an auto mechanic follow the Installation Guide located on the Tramigo CD or ask your dealer for instructions.

## Step 2. Setup

After T22 has been installed into the vehicle you are ready to become the ‘Owner’ of your T22. Owner has full access to all the features of your Tramigo.

- 1)** Send a SMS with the message OWNER to your T22. If the T22 does not answer go to the troubleshooting section.
- 2)** After about 5-10 seconds the T22 unit will respond with a text message: “Tramigo: Owner, please reply “Owner,YES” to register as owner”
- 3)** Reply with a SMS with the message OWNER,YES to your T22
- 4)** After about 5-10 seconds the T22 unit will respond with a text message: “Tramigo: Owner, +5551234578 registered”

This means that you are now the registered Owner of your T22 and it will accept any commands that you send to it from your phone.

**5) Tramigo M1** software provides a simple to use menu interface that makes your T22 even easier to use. This software will work with any Nokia S60 phone. M1 is included in your Tramigo CD and requires a Nokia Series 60 model phone. The M1 User Manual provides complete installation instructions. Also included is a PC version that allows you to use a PC USB port for charging the unit and update the software with new versions from our web site.

## Step 3. Connect

Now your T22 is ready to use. From your mobile phone try sending the FIND command to your unit – just send a SMS with the text F in the message – upper or lower case. To allow other users to find you add their phone numbers using the ADDUSER command. Note that you should only give other users FRIEND or GUEST authority to prevent them from changing your T22 settings.

Try some of the commands in the summary below and connect with your car.

## T22 Commands

This is a list of the most common commands that you will use. For a full list see the T22 User Manual located on your Tramigo CD. Each user must set their own reporting options so you give them access by using the ADDUSER (AU) command listed below.

Upper or lower case can be used in the commands. Most commands also have a short form to save typing. Commands with an ON or OFF parameter can also omit the parameter to change the report setting, example T will turn trip reporting on or off.

SMS Command	Example Command/Report (Short form use if available)
<b>LOCATION REPORTING</b>	
<p><b>FIND</b> – Shows the location of your car. You can also send a blank SMS message</p> <p><b>FIND,NEAR</b> shows the 3 nearest locations</p> <p><b>FIND,time</b> turns on periodic reporting. You will receive a FIND report every x minutes specified between 1 and 1440 minutes or daily or weekly</p> <p><b>FIND,off</b> turns off periodic reporting.</p>	<p><b>F</b></p> <p><b>F,DAILY</b> will send a FIND report once per day</p> <p>Tramigo: parked, 0.58 km E of Makati Sport Club/Salcedo Village, Makati, NCR, RP, old position, 20:38 Nov 5</p> <p>Unit will show as parked until a trip has started.</p> <p>The text old position means that the unit has not had an updated position in over 5 minutes</p>
<p><b>TRIP,ON</b> – Sends a trip report when your car starts a trip and after the car has been stopped for 15 minutes.</p> <p><b>TRIP,OFF</b> – Turns off trip reporting</p> <p><b>SET,P_TRIP_START_REPORT,0</b> turns off the trip start reporting</p>	<p><b>T,ON</b> (you can also just send T)</p> <p><b>T,OFF</b> Turns trip reporting off</p>
<p><b>Tramigo: trip report, start 0.19 km S of Pasong Tamo-Dela Rosa Street, end 0.02 km N of Tramigo Office, trip time 0:27, distance 1.61 km, max speed 33 km/h, avg speed 3.5 km/h, idle time 0:07, 11:44 Nov 6</b></p>	
<p><b>ZONE,distance/on/off,placeName</b> – Will send a report when the car entering or leaving an area defined by a circle with a radius defined by the distance from the place name. Distance can be 0.1 km to 999. You can use partial place names and the system will select the closest one that matches</p> <p><b>ZONE,OFF</b> - Turns off reporting</p>	<p><b>Z,1</b></p> <p><b>Z,3,Home</b></p> <p><b>T22: zone crossing detected, moving 0.17 km NW from Caltex, San Lorenzo, Makati City, PH, E with speed 34 km/h, 19:21 Jan 27</b></p>
<b>SAFETY AND SECURITY REPORTING</b>	
<p><b>ALARM,ON</b> – Reports when there is movement of the unit or the vehicle moves 100m. You must turn on the monitor again after each alarm.</p> <p><b>ALARM,OFF</b> – Turns off the monitor.</p> <p>Note to shut off the motion detector see the User's Manual</p>	<p><b>A,ON</b></p> <p><b>Tramigo: motion alarm detected, parked at Glorietta Mall, Makati City, PH, 17:07 Sep 15</b></p>

SMS Command	Example Command/Report (Short form use if available)
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**SAFETY AND SECURITY REPORTING**

**POWER,ON** – Will tell you when your T22 battery is below 20%.  
**POWER,OFF** – Turns off the monitor.

**P,ON**

**Tramigo: low power, parked, 0.34 km S of Harrison Plaza, Manila, NCR, RP 13:13 Oct 17**

**Personal Assistance** – Pressing the panic button for more than 2 seconds will send 2 reports to all users.

**Tramigo: alarm detected, panic button activated, parked, at Tramigo Office, Bel Air, Makati City, PH, 14.55895, 121.01931, 03:05 Oct 30**

**Phone Calls** – Pressing the phone button for more than 2 seconds will call the 1st user in the user list. Pressing a second time will call the 2nd user up to the 3rd user. To add a user's phone number use the SPEEDIAL command: example **SPEEDIAL,1,+5551234** will add that number to slot 1. **SD** (short form) command alone will list all the speed dial numbers. To delete a number for example number 2 send: **SD,2**. To answer incoming calls or end a call press the phone button. A hands free kit is needed to use this feature.

**PERFORMANCE REPORTING**

**SPEED,x**  
 Reports if car travels above x km/h. Range is 10-300. Reports again after car has slowed 10km under limit.  
**SPEED,OFF** turns off reporting

**S,100**  
**S,OFF**

**Tramigo: 130 km/h speed limit detected, moving, 0.35 km S of Harrison Plaza, Manila, NCR, RP, with speed 131 km/h, 08:30 Nov 2**

**SETUP AND MAINTENANCE**

**NAME,name** – Sets the name of your car (up to 15 characters). User must have OWNER authority

**NAME,Gavin's Car**

**ADDUSER,<phone number>,level** – Adds replaces an entry in the user list. Level can be OWNER, FRIEND, or GUEST  
 Owner can issue all commands, Guest only FIND  
**LISTUSER** Lists the last 4 digits of each user  
**LISTUSER,x** Lists the complete details of user x  
**DELUSER,X** Deletes a specific user  
 User must have OWNER authority.

**AU,+5555555,OWNER**

Adds the number with OWNER authority  
**LU**

**Tramigo: ListUser, 1-4556 2-5555, 22:58 Nov 21**  
**LU,2**

**Tramigo: ListUser, #2 +5555555 Owner - reports: Power - Trip, 22:58 Nov 21**  
**DU,2** Deletes user number 2

**ADDPLACE,place** – Adds your own location to the Tramigo location directory. Tramigo will use the coordinates of the location your vehicle is currently at. Best to park your stop your vehicle first.  
**DELPLACE,place**  
 Removes a location you have added or an pre-loaded location. Place name must be an exact match.

**AP,Office**

Name can be up to 40 digits. Upper and lower case. Letters and numbers only.

Now try a F command:

**Tramigo: parked, at Office, 20:38 Nov 5**  
**DP,Office**

**STATUS** – Reports the status of the unit and which reports are turned on for you.

**ST**

**Tramigo: Status, GPS: 60%, GSM: 80%, battery: 100%, reports: Trip (15), Speed (100), Zone (2.0, 14 33'31"N, 120 59'30"), 19:12 Nov 7**

**SETTINGS** – Reports the status of all reporting for the unit and the number of user locations you have added. For each report the user number is shown.

**SETTINGS**

**Tramigo: Settings, Alarm:-, Find:-, Ignition:-, Power:1, Trip:1/3/4, Speed:-, Zone:1/2, user locations:2, Metric:on, 14:51 Nov 7**

**COORD,ON** – Adds geographic coordinates to all locations.

**COORD,ON**

**Tramigo: parked, 0.35 km S of Harrison Plaza, Manila, NCR, RP, 14 33'34"N, 120 59'28"W, 11:33 Jan 22**

## Trouble Shooting

**Problem:** T22 is not responding

**Possible Causes:** No power

**Possible Solution:** Check that the unit has power. The power light should be blinking every 5 seconds. Check that the battery is installed correctly. If the battery is low then connect the unit to a power source. If power light does not come on when connected to power and the unit has been sitting for months without power – just charge the unit for 1.5 hours and the Power light will come on.

**Problem:** Unit is not responding and the GSM light is red.

**Possible Causes:** T22 is unable to acquire a GSM signal at current location, SIM not properly inserted; no SIM installed on the unit, SIM has PIN code.

**Possible Solution:** Move the unit where there is a strong signal, Remove SIM and reinsert SIM to the unit, install a SIM to the unit, remove the SIM PIN code.

**Problem:** Unit is not responding and the GSM light is flashing

**Possible causes:** SIM is out of credits if pre-paid account, or there is a temporary network problem, or the phone number of the user is incorrect.

**Possible Solution:** Check and make sure SIM has sufficient credits (unit will correct itself when next SMS is sent, wait for the network to recover, check the phone number of the users.

**Problem:** Unit reports old position or No GPS lock and GPS light is red.

**Possible causes:** T22 is upside down, has no clear view of the sky, nearby trees, houses or buildings obstructing satellite signal, metallic tinting of the windshield

**Possible Solution:** Move to a place where the T22 (Tramigo logo facing up) has a clear view of the sky, ensure that tinting is non-metallic. To test the tint, move the unit outside the vehicle and see if GPS light goes off within a minute.

### T22 Indicators

**Power** – Flashes every 5 seconds, solid when charging, off when sleeping or when power is shut off

**GSM** – Off means OK, On when no signal, flashes when there is a problem sending a SMS.

**GPS** – Off means OK, On when no location can be determined.

**Incoming Call** – GSM and GPS light flash.

### T22 Sleep Mode

T22 has automated power management with 4 sleep modes to extend the battery life for portable users and prevent draining your car battery for installed users. When sleeping all the lights are turned off to save power.

To shut off sleep mode send the command: SET,Sleep,0. To turn sleep mode back on send: SET,Sleep,1.

Your T22 will sleep 1 hour after a trip or after 5 minutes of inactivity. T22 wakes up when a trip starts, or motion is detected.

1st Sleep Mode – Shuts off GPS, wakes each hour for 5 min for 6 hours

2nd Sleep Mode – Also shuts off GSM so you have to wait for the unit to wake up to answer your SMS. Lasts for 5 days

3rd Sleep Mode – Wakes up every day for 5 minutes. Lasts until the battery power is very low.

4th Sleep Mode – Will only wake up when connected to power.

If you still have problems contact your dealer or email [support@tramigo.net](mailto:support@tramigo.net) for assistance.