LT604 GPS TRACKER
Rechargeable Battery Powered 4G GPS Tracker

OWNERS OPERATION MANUAL

This product requires a mobile SIM card with voice text and data.
Data only SIM cards are not compatible.
This product is water resistant, not waterproof.

4G

Included;
- 1 x GPS tracker with built-in magnets & Long-Life Battery (see carton for model)
- 1 x USB charger cable
- Free APP for your mobile phone - Android or IOS.
- Free access to the online website

DOWNLOAD THE MOBILE APP
Go to App Store for Apple IOS
Go to Play Store for Android
Search for :- **4G MONGOOSE GPS**

MONGOOSE 4G GPS

WEB ACCESS TO TRACKER
www.mongoosegps4g.com
V.L.12.24

Responsible use of GPS products

GPS tracking devices need to be used responsibly, with disclosure and consent of drivers and not breach any privacy rights. Mongoose GPS trackers are not for covert use. You must disclose to any driver/user that you are using a GPS tracking system.

All customers need to ensure that they install and use GPS tracking devices in accordance with all applicable laws, regulations, standards and industry code of conduct.

The LT604 is a battery operated 4G GPS positioning trackers that are designed to transmit its location at intervals of your choice. They also contain LBS (land based system) to give approximate location based on mobile phone cell sites if, for some reason there is no satellite GPS reception. LBS will show which cell tower area the tracker is within – not an actual accurate location. Each tracker contains a high-capacity rechargeable battery. The mobile APP displays the current battery condition. Battery life depends on usage and frequency of location reporting.

The mobile APP and website

Your purchase allows free access to an Apple IOS or Android mobile phone APP as well as free access to the online PC website. The logon to either is password protected making your data more secure.
The APP is a powerful tool and is used for tracker location, historical travel as well as issuing commands that control how the tracker operates.
Location data is stored on the website for upto a continuing 6 month period. More detailed travel history and reporting functions can be found on the website.

Mobile SIM card (not included)

The tracker requires its own mobile SIM card so it can send GPS locations using mobile data to the online website and to your mobile phone.

The trackers SIM card must have the ability for voice, text and data. (data only SIM cards are not compatible)

Due to the nature of this product, a PrePay SIM card is sometimes the most cost efficient especially if choose long term credit expiry and 'auto top-up' is selected.
Note: The tracker does not inform you when available credit has been used up.

DUAL PASSWORDS – Double Data Protection & Security

There are 2 separate unique passwords to protect your personal data.

Password 1: This is your logon password to allow entry to the mobile APP and online website. This password is chosen by you when completing the 'activation wizard'. Default is **222444**

Password 2: This password is for text commands sent from the APP or your mobile phone. This password is chosen by you by selecting 'text password' in the 'command list'. Default is **123456**

NOTE: Only reveal your logon and password details to persons who you wish to have full access to the tracker including locations, history and programming options.

BASIC INSTALL AND SET UP STEPS

1. **Charge LT604**
2. **INSERT active SIM CARD into LT604**
3. **Turn on Switch for LT604**
4. **Download Mongoose 4G GPS APP**
5. **Log on to APP using 10 Digit ID number and default password**
6. **Enter Tracker phone number into Tracker Info**
7. **Placement of LT604 on Asset.**

STEP 1   BATTERY & CHARGER

DO NOT LEAVE CHARGING UNATTENDED.

Only use the charger lead supplied.

Charging time varies according to the battery state.

First charge Allow log charge time of upto 12 hours.

NOTE: Do not use the USB lead connected to other equipment such as a computer to charge - charging may not occur or be considerably extended.

STEP 2 and 3   SIM CARD INSTALL and ON/OFF

Switch

Lift the rubber cover   Insert the SIM card & turn on   Close the dust cover

The LEDs light solid whilst searching for both GSM and GPS signals.

After approximately, 20~40 seconds the LEDs should start to flash. The tracker must be outdoors or very close to a window/door to receive GPS signals.

Once signals are acquired, the tracker can be activated see next page.

After a short while, the LED's will turn off to preserve battery life.

PLACEMENT — For tracker security and best mobile & GPS reception

The tracker has built-in magnets to assist with attaching the tracker to a vehicle, trailer, equipment or asset.

The tracker must have direct 'line of sight' to the GPS satellites. It must not be placed under or surrounded by metal or solid materials or electronic equipment which can block GPS and mobile reception.

If GPS reception is obscured, tracking data may not be collected or be inaccurate

We strongly recommend experimentation in different placements to get the best reception before deciding on a long-term location.
Ideally, the tracker should be concealed for its security, but remember, you will need access to the tracker for battery recharging purposes.

Placement must also take into consideration the rubber cover over the on/off switch and SIM card slot. This should not be easily accessible to anyone wishing to disable or turn the tracker off.

STEP 4 Download Mongoose 4G APP

DOWNLOAD THE MOBILE APP
        Go to App Store for Apple IOS
        Go to Play Store for Android

Search for :- **4G MONGOOSE GPS**
Existing user check for most recent APP UPDATE
       WEB ACCESS TO TRACKER
   www.mongoosegps4g.com

Note: For this tracker to function accurately, ensure your mobile phone GPS location services are switched on.

STEP 5 LOG ONTO TO APP

1. Enter the trackers 10 DIGIT ID (serial number) and default 222444 password then PRESS LOGON
2.You can check now to see if your TRACKER is reporting correctly to the APP.

If your tracker is not reporting its Location or you also want to access more features of the APP follows the steps below.

Press MENU and select TRACKER INFO

STEP 6 Enter Tracker phone number into Tracker Info

Select Tracker Info
Once in Tracker INFO you can set up details for your unit.
Press the Write ICON at top right of the screen
and **enter Device phone number**.
You can also personalize tracker info details here.
CHECK Your DEVICE phone number is correct and other details are as you require and then press save icon
that will be top write of screen
You can press the Back button at top of screen to go back to Main menu

In Menu choose TEXT COMMANDS
Choose **MASTER USER NUMBER**.
You can then enter your personal MOBILE number
that will be the main user of the tracker.
The app will go to SMS sending function of phone,
Send the SMS and tracker should reply.
In this section you can set up and communicate via SMS
With your tracker.
You can change your SMS password here for extra security
of your tracker. KEEP A RECORD OF THIS NUMBER
Once completed go back to Main menu

In Menu choose SET APN

You can enter the SIM PROVIDERS APN to make sure the tracker is send data via the right TELCO.
Below are some of APN that you can enter, the APP will go to SMS, please ensure you send SMS and TRACKER will reply

The 'APN' (Access Point Name) allows your GPS tracker to connect to the internet via the APP, your phone and the mobile network. It is your SIM card providers data channel. BELOW are some APN examples;

Australia APN		New Zealand APN	
Telstra	telstra.internet telstra.wap	**Vodafone**	vodafone.net.nz
Vodafone	live.vodafone.com	**Spark**	internet
Optus	connect or yesinternet or connectme	**2 Degrees**	internet
Aldi	mdata.net.au	**Kogan**	live.vodafone.com
Boost	telstra.mms	**The Warehouse**	warehouse
Moose	yesinternet	**Skinny**	wapaccess.co.nz
AmaySim DODO	internet	**Slingshot**	wapaccess.co.nz

Contact your SIM card provider if your provider is not listed above or to verify the correct APN.

You can move the LT604 to wake it up and get update of so it sends location then allow a few minutes and check location which should now be correct

You can now go back to MAIN MENU
Select Change Password
You can enter your current password for LOG IN then choose enter your own 6 digit password
NOTE: It is important that you change the Default passwords to your own chosen password.
Also to protect your location data, only reveal your logon details to trusted persons.
CONTROL COMMANDS AVAILABLE VIA THE MOBILE APP

STEP 7 PLACEMENT & SECURITY OF THE TRACKER

The tracker has built-in magnets to assist with attaching the tracker to a vehicle, trailer, equipment or asset. The tracker must have direct 'line of sight' to the GPS satellites. It must not be placed under or surrounded by metal or electronic equipment which can block GPS and mobile reception.
If GPS reception is obscured, tracking data may not be collected or be inaccurate.
We strongly recommend experimentation in different placements before deciding on a long term location.
Ideally, the tracker should be concealed to enhance security of the tracker from non authorised access.
Remember, you will need access to the tracker for recharging purposes.
*DO NOT use the LT604 permanently connected to power charging.

THE LOGON SCREEN

The logon screen appears
(Also appears each time you open the APP)

• **SINGLE TRACKER USERS**   Enter the trackers ID (serial number) and your password. 10 Digit number on box and tracker

• **FLEET ACCOUNT USERS** (For more than one tracker)* Enter your account name and logon password

• Tick the 'remember me' box for future logons

You can apply for an account, GPS ACCOUNT FORM is available from the GPS trackers section on mongoose website.

'REAL TIME' - LIVE TRACKING

After logging on, the 'real time' map screen opens and shows the Current or last viewed vehicles' location.
This location is the last one recorded by the APP (and GPS website).
The dialogue box gives the time and date of that location.
This could be right now, or sometime previously.

If this screen is left open, a trace line will be drawn showing the route currently being driven.

The green triangle is the tracker - the blue dot is your mobile phone.
The green line shows the direction and distance your phone is from the tracker.

You can view in either map or satellite view.

MENU - takes you to the main menu
LIST - allows you to choose which tracker you wish to view (Account users only)

Each time the blue circle is pressed, the view changes to what information is displayed.
    a.   An individual tracker location and distance from your mobile phone
    b.   The location of your mobile phone
    c.   All online trackers (account holders with more than one tracker)

NOTE: For this feature to function correctly and accurately, ensure your mobile phone GPS location services are switched on to allow phone and APP tracking.

THE MAIN MENU
The top bar shows the trackers status

- '**Real Time**' - shows the current or last reported location
- '**History**' replay todays travel, yesterday or any 24 hour period History is retained for up to 6 months. Page 6
- '**Text Commands**' allows you to control the tracker (Uses text messages from your mobile phone)
- '**Messages**' a record of alerts sent to you
- **'Change password-** change password for APP-website
- '**Geofence**' - sets a permitted radius of travel.
- '**Tracker info**' – complete all details
- '**Set APN**' - Allows you to change APN if a different

ACCOUNT MAIN MENU

'Account' User Menu

If you have more than one tracker and you wish to view them on your mobile phone, contact Mongoose so we can apply for your own GPS 'account'.

Main menu
Same as above with an additional button for your account details. As an account holder, you have 4 more buttons at the foot of the screen :-

'HOME' – Takes you to the main menu as shown on the right

'LIST' – Lets you select which tracker to view.

'MONITOR' - Allows you to view all your trackers (online and offline) on your mobile phone at the same time.

'MESSAGE' – Shows text messages that have been sent to your mobile phone.

TRACKER INFO' - Please complete all details

- Edit the device name to one of your choice
  (This name shows on the map and other screens)
- Enter the vehicles registration number
- ****Enter the phone number of the trackers SIM card****
- Enter the name of the main contact person. (For multiple

  trackers, you can enter the drivers/users name)

HISTORY PLAYBACK
The history screen allows you to select;
'Today' - 'Yesterday' - or 'Custom' – (any 24 hour period)
Select a 24 hour period, the screen opposite will appear;

- Which tracker is being shown
- Date and time
- Start and end points
- The green trace line is the route taken
- Speed at each location
- Direction of travel

The control buttons at the bottom allow you to zoom in or
out, play, pause, change progress and change replay speed.

STRAIGHT LINES ON REPLAY
This tracking device will always attempt mobile connection
via the 4G network.
If 4G is unavailable, it will automatically attempt to use
a network signal whichever is the strongest
signal in the area where the GPS tracker is currently moving. This auto switching can
cause a momentary loss of location data whilst searching for a mobile connection.
This can result in odd short straight lines appearing on the replay of a historical
journey. The onboard location memory function of the tracker can assist in alleviating
these straight lines.

ONLINE WEBSITE

Go to:
www.mongoosegps4g.com

- First select 'IMEI' (10 digit ID number)for single tracker users
    OR
- 'USER NAME' if you have a Mongoose GPS account for multiple trackers

- Logon to the website with the same details as the mobile APP.

LOGON PASSWORD

Your 'logon' password is can be changed when you log in and enter MENU.

On the website, Once logged in, the top right corner will show your trackers or account name. Next to this is a 'change password' menu item. Input current password and your chosen new password. Please make a note of any password changes – best place in 'notes' on your phone.

FINDING LOCATION BY SENDING A TEXT MESSAGE FROM ANY MOBILE PHONE

Without using the mobile APP, you can find a trackers location by simply sending a normal text from any mobile phone to the tracker:-

Send:- **g123456#**

You will receive a text reply.
Tap the blue web address.
The phones map will show trackers location.

Note: 123456 is the default password. If this was changed when completing the wizard, replace the default with your chosen password.

GEO-FENCE (A restricted area of travel)

A geo-fence is an invisible boundary that has a minimum radius of 100m to a maximum of 5000m. The area is easily set from within the APP.

If the tracker moves in or out of the geofenced area it will send an alert to the APP and Website. IT does not send SMS alert.

Multiple geo-fences can be set, for instance, around your home, your place of work, usual parking places, shopping centres, friend's houses, customers premises, etc.
Especially useful for business for you can tell when an employee arrives or leaves a customers location.
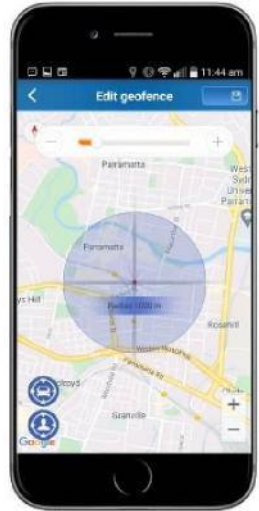
CREATING A GEO-FENCE

- Select 'Geo-fence' in main menu

- Press 'Add New' top right corner

- Enter a name for your geo-fence

- Press 'CREATE'

- The map on the right opens.

- Move the map so the crosshairs are over where you want

  the centre of your geo-fence to be.

- Use the slider bar to increase or decrease the size of

  the geo-fenced area.

- The text in the centre of the 'crosshairs' shows the radius chosen

  (distance from centre to perimeter).

  Min' 100m - Max' 5000m

- Press the save icon top right.

The geo-fence alert is now automatically 'on'.
To turn the alerts 'off', select 'geo-fence' in main menu and a list of created geo-fences appears. To delete a geo-fence by press and hold till the delete options appears.

MOBILE APP COMMANDS

These are commands that can be sent from the mobile APP. These commands are the most frequently used.

This screen also shows the current status and previous settings.

When commands are sent from the APP to the tracker, they are sent as password protected text messages from your mobile phone. You will notice that the APP opens your phones text messages displaying the command code to be sent to the tracker. **Just press 'send'**.
For most commands, a reply text message will be received confirming the action.

NOTE: Do not send commands listed on the APP directly from your phone (must be via the APP) as the APP's status will not be updated.

Command	Function
Vibration Alert	Turns text alert on or off.
Get Location Data	Provides latitude/longitude as a text message – click on blue text to open your phones mapping system (not APP)
Tracking Frequency	Sets how often the tracker updates its location when moving. Default is every 15 seconds - gives accurate trace
Time Zone	Set hours ahead of GMT your tracker is located. Adjust for daylight saving when applicable.
Vibration Sensitivity	Adjust the sensitivity of the shock sensor. 1~9 (1 most sensitive)
Speed Alert	Sets a maximum permitted speed. Speeding sends a text alert
Move Alert	Sets a radius of permitted movement once parked.
Master User Number	The main users mobile phone number
Authorised Number	2 other permitted users to receive messages (SOS)
Text Password	Choose your own 6-digit number. **This does not change your logon password**
Factory Reset	Resets settings to factory default

ADVANCED USER SMS (TEXT) COMMANDS

The following text commands provide greater control of how the tracker operates and reacts to certain circumstances. Send the commands direct from your mobile phone to the tracker. **123456** is the default password. If you have changed your password, replace 123456 with your password in commands.

Instruction	Text to tracker	Reply
Sleep mode on	SZCS#SLEEPT=3 3 = SLEEP AFTER 3 MINUTES DEFAULT	SETOK: SLEEPT=3
Sleep mode off	SZCS#SLEEPT=0	SETOK: SLEEPT=0
TAMPE-DROP alert ON TAMPER DROP alert OFF default	SZCS#SOS=1 SZCS#SOS=0	SETOK:sos=1 SETOK:sos=0
Show authorised (SOS) numbers	sos,XXXXXXXX,XXXXXXXX XXXXXXXX = mobile phone numbers (can use one phone number twice instead of 2 difference phone numbers)	SOS! S1:XXXXXXXX SOS! S2:XXXXXXXX
Cancel Master User Number (Must be sent from master mobile	adm123456,	Adm ok
Change text command password **(Does not change APP password – see page 8)**	pwd123456,XXXXXX 123456 = default xxxxxx = new password	Pwd ok Keep copy of your new password safe!
Use onboard location memory if no mobile	SZCS#blind_en=1 (default 1 = ON) SZCS#blind_en=0 (0= OFF)	SET OK blind_en=1 SET OK blind_en=0
Turn on road corner reporting. Turn off road corner reporting	SZCS#ANGLE_SEND=1 (default 1=ON) SZCS#ANGLE_SEND=0 (0 = OFF)	SETOK angle_send=1 SETOK angle_send=0
Set APN	apn123456 xxxxxxx Where xxxxxx = APN name	APN ok
Check parameters	CXZT	Status reports
DROP off (light sensor)	SZCS#SOS=1 (default 1 = ON) SZCS#SOS=0 (0 = OFF)	SETOK: sos=1 SETOK:sos=0
Reset (rests default settings)	begin123456	Begin ok
Re-boot	CQ	CQ OK

COMMANDS EXPLAINED

VIBRATION ALERT
This is to control alerts for the vibration sensor. Sensitivity is adjustable.
Example: The vibration sensor may detect movement of say a trailer whilst someone is attempting to attach it to a vehicle. If set to ON, you will receive a text alert. We suggest simulating this action to find the best location for the tracker. Sensitivity is adjustable

SHOCK (VIBRATION) ALERT
When armed, if the tracker detects a violent shock (vibration), it will send an alert to all authorised mobile phone numbers.
Sensitivity is factory set and is also dependent on where the tracker is mounted. We recommend attaching to a solid part of the vehicle for best detection.

MOVE 'TOW' ALERT
This is similar to geo-fence but is not at a fixed location – the location is where your vehicle is parked when you turn 'move' to 'ON' and set a radius.
The vehicle must be stationary for more than 3 minutes before 'move alert' can be turned 'ON'. You must set a permitted radius of travel of your choice (100m-500m) from the parked location. You must then ARM the tracker via Text commands each time.
If the vehicle moves outside this radius (eg: towing or theft), the tracker will send an Alert to your APP and Wesbite
If move alert is on, then geo-fence is automatically off.

SPEED ALERT
Set a limit between 50~300kph. Exceeding the limit sends a text alert to authorised numbers.

TAMPER ALARM (DROP ALARM) – default OFF
The tracker has a built-in optical light sensor trigger on its base.
If the tracker is removed or falls off, it will trigger a text alert.
When setting up the tracker or testing its features you can turn off this feature

FREQUENCY OF REPORTING – default 15 seconds – max' 300 sec's
Set how often the tracker reports when moving. (Tracker sleeps when idle)
Typically, 15~20 seconds is used when moving as this gives a good map plot.

PASSWORD – for text commands (not APP- Website logon)
The default password is 123456.
This may be changed to any 6-digit number.
Note: If changing the password, please make careful note of the new number.

ONBOARD LOCATION MEMORY – (default ON)

The tracker has an onboard location memory function and is used where there is no mobile coverage.

If you drive from a good reception area into one with no reception, the tracker will attempt to record its locations. Once mobile reception is re-acquired, the tracker will attempt to send updates the GPS website resulting in reduced loss of location data and clears onboard memory.

CORNER REPORTING (default ON)

When viewing travel history, the map trace draws a line between each 15 second plot. If the vehicle turns a corner between plots, the drawn line cuts the corner. With corner reporting turned on, the map trace will be more accurate showing the turn.

LOW BATTERY ALERT - Battery condition is shown on the mobile APP.

When battery voltage is too low,

SLEEP MODE – WAKE UP BY SHOCK OR TEXT

When the tracker detects no movement for at least 5 minutes, it will enter sleep mode to preserve battery life. GPS reception and location data upload are suspended. Mobile reception is still on. The tracker will wake up either by detecting movement from its built-in sensor or by receiving a text command message.

NOTE: If the movement sensor doesn't receive sufficient movement, it may not immediately wake up.

TIME-ZONE

GPS time is based on GMT (Greenwich Mean Time).

When no daylight saving	(10 - NSW)	(12 for NZ)
With daylight saving	(11 -NSW)	(13 for NZ)

The tracker does not automatically update time – it must be done manually.

LED's (Located on the tracker module) LEDs will Turn off to save power.

Green LED — Mobile communication

Unlit	Mobile reception is off
Lit solid	Searching for signal and/or GPRS transmission
Flashing once every 3 sec's	Working normal

Blue LED – GPS satellite reception

Unlit	GPS off
Lit solid	Searching
Flashing once every 3 sec's	Working normal

Red LED – Internal battery for back-up – lights when charging

BATTERY & CHARGER
Only use the charger supplied.
Charging time varies according to the battery state.
Allow 12~24 hours.
DO NOT LEAVE CHARGING UNATTENDED.

NOTE: Do not use the USB lead connected to other
equipment such as a computer to charge - charging
may not occur or be considerably extended.

Caution:
- This product contains a Li-ion battery which has harmful chemicals. Dispose of sensibly.
- Do not dismantle, drop, bump, puncture or treat it violently.
- Do not incinerate, get wet or submerge.
- Do not leave the battery discharged as this will prevent its recharge ability.
- This GPS tracking device uses the 4G mobile networks for sending data and texts.
- Mongoose is not responsible/liable if the mobile network becomes unavailable.
- The purchase of this product provides free access to a mobile APP and website.
  These are operated by a 3rd party. Mongoose accepts no liability or responsibility if
  the APP or website become unavailable or access terms change.

Specification

Mobile module	4G Quad Band
Network	4G
GPS sensitivity	-159dBm
GPS Position Accuracy	5m (outdoors)
Time Accuracy	Synchronized to GPS time & GMT
Cold start	35~80 sec
Hot start	1 sec., average
Warm start	35 sec., average
Charger	110v~220v input 5v output
Battery - Re-chargeable Li-ion	20,000mAh (LT604)
Standby (non-reporting)	Up to 6 months (LT604)
Daily use	Up to 60 days (LT604)
Operating temperature	-20°C to +55° C
Dimensions	120x65x47mm 458grm (LT604)
Humidity	5% to 95% Non-condensing
Dust / Water resistance	IP67

PRODUCT WARRANTY

Mongoose warrants for the period of 1 YEAR (12 months) that it will make good without charge, at Mongoose's discretion, by way of repair or replacement with the same or with a reasonable equivalent.

It is the product owner's responsibility to return the GPS tracker for service, repair or replacement at their own cost.

Any claim made to Mongoose under this warranty must comply with the following;
(a) any defect has been notified to the supplying Mongoose dealer as soon as the defect was noticed.
(b) a copy of your retail 'proof of purchase' stating where and when it was purchased and (if applicable) who carried out the installation.
(c) the product was manufactured within 12 months prior to the commencement of this warranty period.
(d) the product was purchased from Mongoose or one of its authorised dealers/resellers.
(e) the product has not been disassembled or the manufacturers security seals have not been broken or tampered with.
(f) if installation of the product was required, that it has been installed by a suitably qualified industry recognised person.
(g) that the original installer, or other Mongoose dealer nominated by the original installer, has determined that the reported defect is a genuine product defect and not caused by;
1. incorrect operation, incorrect installation or any other consequential damage caused by other equipment not part of this product.
2. operation of the product after it is known to be defective
3. tampered with, alteration or modification by any person
4. the fitment and/or connection of additional parts or accessories not supplied by or approved of by Mongoose
5. water damage, misuse, accident, deliberate act or abuse, misdirected electrical current, insufficient or excess voltage, ingress of any fluid or fire
6. excessive heat from either the vehicle or the sun

Items not covered by this warranty;
(1) labour costs for removal & refitting of parts
(2) mobile 'onsite' service
(3) normal wear and tear
(4) any consequential loss incurred by the failure of this product, service or SIM card failure
(5) product purchased from internet trading sites which is not supplied by an authorised dealer
(6) Mobile SIM cards
(7) The download and use of the mobile APP and website
(8) Loss of access to App and Website

THIS WARRANTY IS NOT TRANSFERABLE

Australia
www.mongoose.com.au
Email: sales@mongoose.com.au

New Zealand
www.mongoose.co.nz
Email: sales@mongoose.co.nz

GPS tracking website: **www.mongoosegps4g.com**