TOYOTA CANBUS
GSM TEXT PAGER

OPERATION AND INSTALLATION MANUAL

Model: **TTP**

This Mongoose GSM text pager is exclusively designed to operate with Toyota CAN BUS equipped vehicles.
This product can operate with or without an alarm system but for higher security we recommend the fitment of the Mongoose/Toyota TA alarm system which includes glass protection and a battery back-up siren.
For correct operation, please read this manual to familiarise yourself with the features.
We advise professional installation of this product to ensure correct operation.

5 SIMPLE OPERATION TEST STEPS

1. INSERT A GSM SIM CARD
2. FROM YOUR MOBILE PHONE, SEND A 'PAIRING CODE' TEXT MESSAGE TO THE PAGERS SIM CARD NUMBER.
3. LEAVE THE DRIVERS WINDOW DOWN. LOCK YOUR VEHICLE WITH THE TOYOTA REMOTE. THE PAGER IS NOW ACTIVE AND IS READY TO SEND WARNING MESSAGES.
4. TRIGGER THE PAGER BY OPENING THE DOOR FROM THE INSIDE DOOR LOCK. A WARNING TEXT MESSAGE WILL BE SENT TO YOUR MOBILE PHONE
5. UNLOCKING YOUR VEHICLE WITH THE TOYOTA REMOTE TURNS THE GSM PAGER OFF

SIM CARD (not supplied)

A GSM SIM card is required for this pager.
This pager operates on the Quad band and
Is generally compatible with all SIM cards.
The lowest cost option is generally the Pre-Pay type as text messages sent from the pager should be minimal. If you choose a Pre-Pay card, we recommend one that does not need to be removed from the pager to re-charge credit. The pager module is mounted under the dashboard, so it may not be readily accessible.
NOTE: This pager does not notify you if your Pre-Pay credit has expired. Please complete the enclosed 're-charge' reminder label and attach in a place in your vehicle easily seen by you.

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PAIRING THE PAGER TO YOUR MOBILE PHONE & BASIC SET-UP

From the mobile phone that is going to receive the alarm messages, send a pairing code to the pagers SIM card phone number.

Pairing code

1122#1	1 trigger
1122#2	2 triggers
1122#3	3 triggers
1122#N	Unlimited triggers

The pager replies with **"NUMBER SET OK"**
(allow time for reply – depends on cellular traffic)

NUMBER OF TEXT MESSAGE ALERTS

The pager will send an intrusion warning text message if your alarm system is triggered or a door is illegally opened.
The number of triggers to which the pager responds is selected by the chosen pairing code above.
If you select 1122#1, a trigger will send one text alert. Any further triggers will not send any further alerts.
If you select 1122#2, two triggers will cause a text alert for each trigger, and so on.
1122#N has no limits and is the recommended pairing code.

CHANGING WHICH MOBILE PHONE RECEIVES THE TEXT MESSAGES

From the new mobile phone, send the pairing code (commencing with the new password if it has changed from factory default).
The pager replies to the new mobile phone with **"NUMBER SET OK"**

The previous mobile phone is now deleted and will not receive messages.
To return to the original mobile phone, just repeat this procedure.

CHANGING THE PASSWORD

To prevent someone interfering with your pager, it is recommended that you change the pagers default password. The password can only be changed after carrying out 'pairing'.

1. Choose a 4 digit numerical password and send the following text message to the pager:- **1122PXXXX**
   (XXXX is your chosen number - **P** is upper case, no spaces.)
2. Pager replies with **"PASSWORD CHANGED OK"**
3. Any further commands now commence with your password number, not 1122
4. **Record the new password in your mobile phone 'contacts' list.**
   TIP: If your car alarm has a PIN coded override, record the number in your mobile phone for easy recall

GLOBAL RE-SET

To re-set the pager back to all original factory default settings (and password to 1122), send the following text from your mobile phone:-

RESET (all in upper case)

Pager replies to sending mobile phone with **'RESET OK'.**
The pager then needs to be re-paired to make it operational.

NOTE: *A confirmation reply must be received before sending any other command. If no reply received within a reasonable time, re-send the original text. Text messages may not always be received in the order they are sent due to cellular traffic.*
Text commands and spam messages are automatically deleted from the pagers SIM card memory.

CONTROLLING THE PAGER

ACTIVATE

Lock your vehicle with the Toyota remote control:
The pager is now active and ready for sending warning messages.

DE-ACTIVATE

Unlock your vehicle with the Toyota remote:
The pager is deactivated and will not send warning messages.

BLUE LED – NETWORK / PAGER STATUS INDICATOR

The status of the pager is shown by the LED (light emitting diode).
Flash cycle is every 4 seconds

Constant ON *	= Searching for a GSM connection
1 flash	= System normal and GSM connected *Does not flash this code whilst driving*
2 flashes	= In Stand-by
3 flashes	= Pager not initialised (see page 5)
4 flashes	= SIM card not inserted
Flickering	= Sending or receiving text messages

To prevent a distraction whilst driving, the LED does not normally flash. It will only light (constant on) whilst driving if there is no network connection.
If the LED is constantly lit when parking, try moving your vehicle to a different location.

Warning: *In order to receive warning messages, both your mobile phone and the pager must have network coverage. Your mobile phone shows signal strength and the pagers blue LED shows its status.*

BE AWARE THAT IF THERE IS NO SIGNAL ON EITHER DEVICE,
YOU WILL NOT RECEIVE ANY WARNING MESSAGES.

GSM PAGER CONTROLLED OUTPUTS – OPTIONAL CONNECTION

The pager has provision for two text controlled outputs.
Use of these outputs depends on the equipment level of the vehicle or other accessories fitted. Other parts may be required.
Typical uses can be:- to lock the doors if you may have forgotten or unlock a door if your keys are inside, or control an additional engine immobiliser.
Please discuss possible uses with your installer.

OUTPUT 1

This is a single 0.8 sec' (-) pulse output of 500mAmps.
A typical use is to lock or unlock doors (not both operations).
Send the command **1122OUT1ON**
Pager replies with **"OUTPUT 1 ACTIVATED"**

OUTPUT 2

This is a continuous (-) negative output when 'on'. Typical use is for a text controlled immobiliser.
Output 2 is turned on or off by text messages.
Send the command **1122OUT2ON**
Pager replies with **"OUTPUT 2 IS ON"**

The output remains ON until the command **1122OUT2OFF** is sent.
Pager replies with **"OUTPUT 2 IS OFF"**

STANDBY

When the pager has been idle for a period of time, it will enter a standby mode which reduces its power requirements from your vehicle battery. This mode is indicated by the blue LED.
Any text message sent to the pager will wake the pager into normal mode.

GSM TEXT MESSAGES

"WARNING:- ALARM ACTIVATED"
This message will be sent if;
a.The vehicle alarm is triggered (if fitted)
or
a.A door is opened by means other than the factory remote/key

"WARNING:- VEHICLE BATTERY LOW"
This message will be sent automatically if the vehicle battery is removed or drops below nominal operating range (approximately 11V). Attend to the vehicle immediately and charge the vehicle battery.

''STATUS REPORT"
This message tells you the current status of your vehicle such as whether the vehicle is locked or unlocked, total distance travelled etc.
This report is manually requested by sending a text message to the pager.

''ODO REPORT"
This message is sent every 1,000 kilometres to confirm the total distance the vehicle has recorded.
For instance, if the ODO metre is showing 9,910km at the time of programming, the report will be automatically generated at 10,000km, then at 11,000km and so on.
If you need to know the exact mileage, send a status report request.
This report can be programmed on or off.

See the list of commands on how to turn features on or off or to request information.

Caution:
Reacting to an alarm text warning message is your responsibility and the safety of the person attending the vehicle as a result of a warning text message should be paramount. We advise no unnecessary risk to yourself or others

USER COMMANDS TO PAGER

1122#1	Pairing code 1 trigger – 1 message
1122#2	Pairing code 2 triggers – 1 message for each
1122#3	Pairing code 3 triggers – 1 message for each
1122#N	Pairing code Unlimited triggers – 1 message for each
1122PXXXX	Change password (XXXX is chosen number)
1122KR	Status report request
1122KS	Turns on automatic ODO report every complete 1,000 km
1122KC	Turns off automatic ODO report
1122OUT1ON	Sends one pulse output from pager
1122OUT2ON	Turns on constant output from pager
1122OUT2OFF	Turns off constant output from pager
RESET	Re-sets pager to factory defaults

Commands not case sensitive – 1122 is default password.
If password is changed, all commands commence with your password

INSTALLATION

ALL CONNECTIONS ARE PLUG-IN
NO WIRE CUTTING OR SOLDERING !

MAIN CANBUS CONNECTORS Only use one, not both.

The GSM pager can be connected to the vehicle 2 different ways depending on the equipment level of the vehicle.

CONNECTOR #1
Use if connecting directly to the Toyota Canbus connector

or

CONNECTOR #2
Use if connecting to another Mongoose Toyota Canbus control module.
EG: TA alarm, TVSR voice safety reminder

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1. Choose a mounting location for GSM module in a concealed location under the dashboard. Do not place near vehicle computers or similar.
2. Mount the on-glass flat antenna horizontally behind the interior mirror or other suitable location. Keep 5cm away from the metal body of the vehicle for better reception. Hide the antenna cable around the windscreen surround.
3. The blue LED should be positioned and mounted where it does not cause a distraction whilst driving.
4. If using CONNECTOR #1, remove the original Toyota canbus connector from the lower dashboard and replace with the corresponding connector of the supplied 'T' harness. Make the connections as shown on the wiring diagram, mount the module and secure all cables and connectors with cable ties.
5. If using CONNECTOR #2, simply plug it into the other Mongoose/Toyota product.

BATTERY BACK-UP PACK

The battery pack uses alkaline batteries (non-rechargeable), so access to it at some time in the future is required. Choose a handy suitable location and secure appropriately.

OPTIONAL 'OUTPUT' CONNECTIONS

Blue wire: (-) low current 500mAmp negative pulse output. Can be used for unlocking doors, boot release, window wind-up, or other application requiring a pulse signal. (Optional relays may be required)

Green wire: (-) low current 500mAmp negative constant output. SMS text messages turn this output on or off. Typical use is to turn on lights, sound a siren or control a relay for say a text controlled engine immobiliser.

INITIAL POWER-UP & TESTING

1.The SIM card must be inserted before any plug connections are made or SIM card damage may occur.

2.When power is connected, the pager will search for a mobile network site which is indicated by the blue LED lighting solid – see LED flash codes. Once GSM connected, LED does not flash its 'armed' until the vehicle is locked.

3.The mobile phone which is to receive text messages must now be 'paired' to the pager (see PAIRING).

4. Test all functions as shown on the 'command chart'

(*) If the vehicle owners mobile phone is available when installing 'pairing' can be carried out from any mobile phone. Re-pair when the owners mobile phone is available.

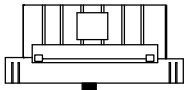
Insert the SIM card correctly – contacts side up, as shown.
To remove, press indent release by side of card.

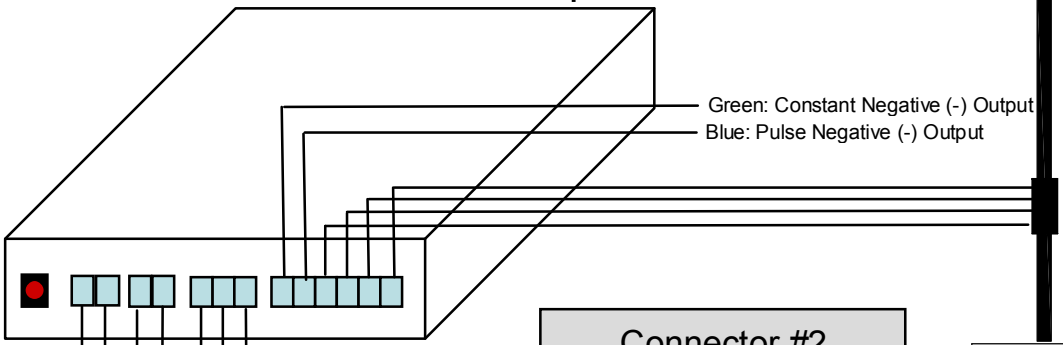
Always disconnect power when inserting or removing.

GSM ANTENNA
Mount behind interior mirror

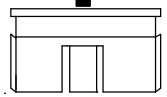
Connector #1

Plugs into Toyota Canbus connector.
DO NOT USE IF #2 USED





Green: Constant Negative (-) Output
Blue: Pulse Negative (-) Output



Connector #2

Plugs into other Mongoose Toyota Canbus module if fitted.
DO NOT USE IF #1 USED

BLUE LED

Back-up battery Pack

Green: Constant Negative (-) Output
Blue: Pulse Negative (-) Output

MONGOOSE

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CANBUS