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# **REWIRE SECURITY GPS 303 VEHICLE TRACKING DEVICE**



## **DETAILED USER GUIDE VER 0.4**

Thank you for purchasing the tracker. This manual shows how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

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## 1. Summary

1.1 GPS-303 can locate any remote vehicle by using Geographic Locating System and send instant sms or Internet reports to the user by using GSM and GPRS network. It is an ideal Information, Telematics and Security solution for your vehicle as it is able to send real-time alerts as well as location reports.

### 1.2 Features

- 1.2.1 Dustproof and waterproof IP66 level.
- 1.2.2 Built-in GSM, GPS antenna.
- 1.2.3 GPS and LBS (Location based service) tracking solutions.
- 1.2.4 SMS/GPRS/Internet Network data transmission
- 1.2.5 Remote Configuration support
- 1.2.6 Built-in movement sensor and microphone.

## 2. Applications

Used for vehicle and other moving objects tracking.

## 3. Hardware Description



## 4. Accessories

| No. | Photo                                                                             | Name    | Specifications | Applicable model    |
|-----|-----------------------------------------------------------------------------------|---------|----------------|---------------------|
| 1   |  | Harness | 3PIN           | Standard for type B |

## 5. Specifications

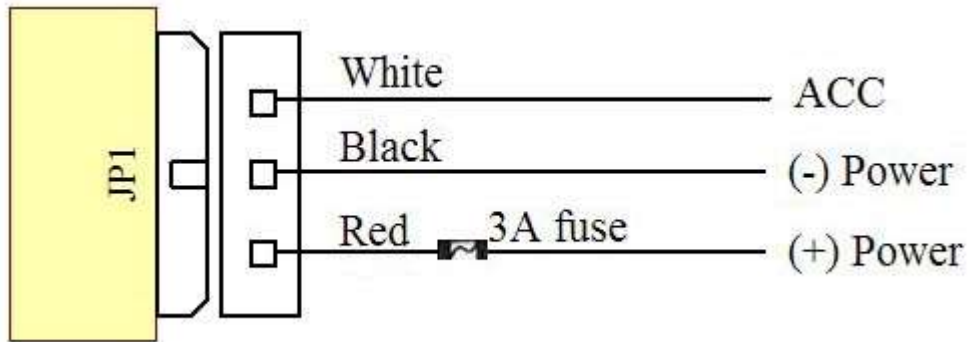
| Content                 | Specification                                       |
|-------------------------|-----------------------------------------------------|
| <b>DIM</b>              | 8.9×5.0×1.6cm                                       |
| <b>Weight</b>           | 65g                                                 |
| <b>Network</b>          | GSM/GPRS                                            |
| <b>Band</b>             | 850/900/1800/1900Mhz                                |
| <b>GPS sensitivity</b>  | -159dBm                                             |
| <b>GPS accuracy</b>     | 5m                                                  |
| <b>GPS start time</b>   | Cold status 45s<br>Warm status 35s<br>Hot status 1s |
| <b>Car power supply</b> | 12 V -24V                                           |
| <b>Back up battery</b>  | Chargeable 3.7V 500mAh Li-ion battery               |
| <b>Storage Temp</b>     | -40°C to +85°C                                      |
| <b>Operation Temp.</b>  | -20°C to +65°C                                      |
| <b>Humidity</b>         | 5%--95% non-condensing                              |

## 6. Usage

### 6.1. Terminal Installation

6.1.1 Please ask a qualified technician to do the installation for you.

6.1.2 Please connect the wires with the original car circuit as shown below:



**Wiring diagram**

## 6.2 SIM CARD Installation

6.2.1 Use the screwdriver included with the device to open bottom cover and insert the SIM card to the designated sim card slot. Do not forget to activate your sim card by making a quick call if you are using a pay as you go sim card. If you would like to use GPRS/Internet tracking, make sure your sim card's internet tracking is enabled.

6.2.2 Make sure your phone has the "show caller id" option enabled, otherwise you will not get any response from your tracker.

## 6.3 Turning your GPS 303 "ON"

Connect the positive & negative wire, red & black ones, with 12V or 24V car power system, wait for 1 minute after connecting power to and move the backup battery switch to "on" position. (The switch is located next to the sim card slot inside the casing)

## 6.4 GSM/GPS LED Indicator

Red LED: LED ON = Charging

LED OFF = Fully charged

FAST flashing fast = Low power

Green LED: LED flashing once a second = GSM mode

LED flashing once every three seconds = GPRS mode

LED constantly ON = No GSM reception

Blue LED: LED flashing = GPS fix established

LED OFF = No GPS reception

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## 6.5 Initialization

Send "begin+password" to the tracker as an SMS text message, it will reply "begin ok" and tracker will initialize/reset all the settings. (Default password is: 123456).

e.g. begin123456

## 6.6 Change Password

**6.6.1** Send SMS "password+old password+space+new password" to the unit to change the password. e.g password123456 888888 . The tracker will reply: "password OK". If you forget your password, you can restore it to the default password using the command "adminpassword13142324".

**6.6.2** Please note that you don't have to change the default password as without your tracker's sim card phone number, it is not possible to have access to the tracker.

**6.6.3** Make sure the new password is in 6 digits.

**6.6.4** When reading this user manual, you will notice that we have used "+" and "space" between some words;

"+" between two words means they should be written together as one word and "space" between two words means you should leave one character space between two words.

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e.g. : sleep+123456+space+shock      this should be sent to the tracker as follows;

sleep123456 shock

## **6.7 Authorization**

You have to save your phone number as authorized user to be able to use certain functions as movement alerts, sos alerts and reports. You can authorize up to 5 numbers. Authorization can be done in two different ways;

**6.7.1** Dial the tracker's number 10 times from your mobile phone and it will register your mobile phone number as the authorized number automatically

**6.7.2** Send SMS “admin+password+space+cell phone number” to set up an authorized number. All the other authorized numbers must be set by the first authorized number. “admin OK” will be returned after command was executed.

If you would like to be able to communicate with your tracker while you are abroad, you must add the country code before the number you would like to authorize. e.g. admin123456 +447776665554

**6.7.3** Delete authorization Send SMS: “noadmin+password+space+authorized number” to delete the authorized number.

**6.7.4** For roaming purpose, you should authorize your number in international format as follows : “admin123456 +447776665544” to tracker to set 07776665544 as an authorized number.

## 6.8 Quick SMS Text Message locating

**6.8.1** If there aren't any authorized numbers set-up, GPS-303 will reply to all calls with a location report. If there are authorized numbers set-up, only authorized numbers will be able to receive location report from the tracker.

**6.8.2** The SMS text message will include coordinates, current speed, time and date. It will also contain a direct Google Map link for smartphone users. Once you click on the link, it will instantly open up Google Map for you to see the location of your vehicle.



\*If you request your tracker's location and receive blank text message with no coordinates or location information, this means your tracker has not established a gps fix yet. Once it establishes a gps fix it will send another text message with the new coordinates.

## 6.9 Auto track continuously

GPS-303 can send automatic location reports at set intervals. If SMS mode is active, reports will be sent as SMS text messages. If GPRS tracking mode is active, update intervals to the server will be adjusted.

#### **6.9.1 Track with limited times upon time interval:**

Send SMS command “fix030s005n+password” to the tracker. It will report its location at 30s intervals for 5 times. (s:second, m:minute, h:hour). This command must be in 3 digits and the maximum value is 255.

e.g. fix030s005n123456

#### **6.9.2 Track with unlimited times upon time interval:**

Send SMS command “fix030s005n+password” to the tracker. It will report its location at 30s intervals for 5 times. (s:second, m:minute, h:hour). This command must be in 3 digits and the maximum value is 255.

e.g. fix030s005n123456

#### **6.9.3 Smart track upon time and distance interval:**

6.9.3.1 Please set "Continuous Auto Track" before selecting this function.

Send "distance+password+space+distance". Tracker will reply "Distance ok". The tracker will upload its location at pre selected time intervals and distance.

e.g. distance123456 0050, This means that distance is 50 meters; the number must be 4 digit. This will configure the GPS-303 to send its location every 50 meters.

6.9.3.2 To set this function on web server: Set time interval first and then distance interval, GPS-303 will locate upon the time and distance.

**6.9.4 To Cancel auto-tracking:** Send SMS “nofix+password” to the tracker device to cancel the auto-tracking (auto-reporting).

e.g. nofix123456

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## **6.10 Automatic update positions of vehicle turns**

6.10.1 The tracker will update the positions automatically to web server once the vehicle changes driving direction over a pre set angle value. This function is only available in GPRS mode.

6.10.2 Send "angle+password+space+angle" to tracker, it will reply" angle ok".

6.10.3 The angle must be 3 digits, default angle value is 30 degree.

## **6.11 GPS drift suppression**

6.11.1 This function is deactivated as default, send "suppress+password" to tracker, it will reply" suppress drift ok". Once this is activated GPS-303 will stop uploading data if the vehicle is stationary. It will start updating automatically once the vehicle starts moving.

6.11.2 Cancel: send "nosuppress+password" to tracker, it will reply" nosuppress ok ".

## **6.12 Street address location reports**

6.12.1 You must set up the APN of your local GSM network for the SIM card in the tracker first before using this function. (Please refer to 6.34 to configure the APN, user name and password for GPRS login.)

6.12.2 Once the APN of your sim card is correctly send, send SMS "address+password" to your GPS-303 and it will send the location report

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in detailed street address format rather than coordinates.

e.g.: address123456

### **6.13 Location based service (LBS)**

If GPS-303 is unable to establish a solid GPS fix, it will calculate its location using Cell-id info. Location reports will include the GPS coordinates of the last known position as well as a LAC code. Entering the LAC code to the "Manual Track" menu of the web tracking platform will enable you to see the tracker's current location. You can also send command "address+password" to the tracker to request exact address. GPS-303 will automatically switch to tracking by LBS in GPRS mode. Accuracy of LBS (also known as Cell-id tracking) depends on the distance to the nearest GSM Network Cell Tower or Base Station. In urban areas this accuracy varies between 25-100 meters.

### **6.14. Voice Monitor (Voice Surveillance)**

6.14.1 The commands to switch between Tracking and Monitor mode are "tracker" and "monitor".

6.14.2 GPS-303 is in Tracking mode by default. When monitor mode is activated, it will automatically answer incoming calls rather than rejecting and replying with a location report.

6.14.3 Send SMS "monitor+password" to the unit, and it will reply "monitor

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ok!” and switch to “monitor” mode.

6.14.4 Send SMS “tracker+password” to the unit, it will reply “tracker ok!” and restore to “track” mode.

## **6.15.Data logging**

6.15.1 Auto logging: If GPS-303 loses GSM or GPRS signal, it can store the tracking position and alerts automatically on to the flash drive upon the pre-set conditions. When GSM signal is acquired, all the event alerts will be auto-sent to the authorized numbers or monitoring platform (server).

6.15.2: Logging at preset intervals: Send SMS: “save030s005n+password” to the tracker, it will reply “save ok”, and will log the lat, long locations every 30 seconds for 5 times. (S: second, m: minute; h: hour).

e.g. save030s005n123456

6.15.3 Continuous logging: Send SMS:”save030s\*\*\*n+password” to tracker, it will reply “save ok”.

e.g. save030s\*\*\*n123456

6.15.4: Erasing Data log: send SMS: “clear+password” to tracker device, it will reply “clear ok”.

e.g clear123456

6.15.5: Storage Volume: Built-in flash 1MB (store about 16,000 positions). This volume can be expanded by using a Micro SD card which can be inserted into

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slot provided. A 2GB card would be sufficient for up to 10 months.

## **6.16. Data Load**

6.16.1 Current date Load: Send SMS: "load+ password" to tracker device, it will reply: "load ok" if the GPRS mode is active. Data can only be loaded to internet tracking platform by GPRS.

6.16.2 Specified date Load: Send SMS: "load+ password+ space+ year month date" to tracker device, it will reply: "load ok" .

e.g.: load123456 20110425

This will upload tracking data of 25th April 2014 to internet tracking platform.

## **6.17. Forwarding messages received from third party**

6.17.1 GPS-303 can forward incoming messages from pre-set third party number.

To activate this function, send "forward+password+space+third parties phone number" from an authorised phone number. The tracker will reply "forward ok", and start forwarding SMS messages coming from that number. Only one number can be set-up for SMS forwarding.

e.g: forward123456 07587126845

6.17.2 To cancel SMS forwarding, send SMS command "noforward+password" to the tracker.

e.g: noforward123456

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## 6.18. SIM Card Balance Enquiry

Send SMS command "balance+password+space+carrier's phone number+space+code" to the tracker, it will forward the content to the specified phone number and return the content from the specified phone number.

e.g. balance123456 0262 check

Ps: This command assumes that the GSM Network provider has the option where you can check your Sim Card's balance by sending a command to a specific number; which is 0262 in this example. Please note that networks in the United Kingdom do not support sim card balance checking by sms.

## 6.19. Alarm Function and Settings

### 6.19.1 Low battery alarm

6.19.1.1. Send SMS "lowbattery+password+space+on", it will reply "low battery+location" to authorized numbers 2 times in total **in 15 minutes intervals** when the voltage of battery is lower than 3.55V.

e.g lowbattery123456 on

6.19.1.2 This function is active by default, send SMS lowbattery+password+space+off" to deactivate.

### **6.19.2 External Power disconnection alarm**

6.19.2.1 This function is deactivated by default. Send

"extpower+password+space+on" to activate, GPS-303 will send SMS "power alarm+location" to authorized numbers every 3 minutes if the external power has been disconnected

6.19.2.2 To cancel: Send SMS "extpower+password+space+off"

### **6.19.3. GPS blind Spot alert**

6.19.3.1 This function is deactivated by default. Send SMS "gpssignal+password+space+on", it will send alert SMS "no gps+last valid location before signal loss"

e.g. gpssignal123456 off

6.19.3.2 Send SMS "gpssignal+password+space+off" to deactivate.

### **6.19.5 Geo-fence (Virtual fence/barrier) alarm**

This function allows you to create safety zones of your choice. When 104 PRO enters or leaves this pre-determined zone, it will send geo-fence alarm warning to authorized numbers. When the unit stays immobile in a place for 3-10 minutes, you can send SMS ;

"stockade+password+space+latitude,longitude;latitude,longitude"

to the unit to set the restricted area. In case of a breach, it will send SMS

“stockade!+location” to the authorized numbers every 3 minutes. Tracker will stop sending alarm if the tracker returns to the restricted area.

Note: The first latitude & longitude is coordinate of the top left corner of the Geo-fence, while the second latitude & longitude is the coordinate of the bottom right corner.

e.g. stockade123456 51.460959, -2.622643; 51.456842, -2.604446

You can obtain coordinates of any location from Google Maps by clicking on desired location and selecting "what's here?"

Cancel: Send SMS “nostockade+password” to deactivate this function.

#### **6.19.6 Multi-area management**

##### **6.19.6.1 Set Area**

To Set an Area for multi-management

Send SMS command

"area+password+space+latitude,longitude+space+areaname,distanceM" to the tracker. (distance unit: M for meter, K for kilometer). Tracker will reply "area01ok".

Example: Send "area123456 22.353648,113.543678 school,800M".

Note: 5 areas at most and the distance between two points can't be less than the total distance in the 2 commands. Different areas can't cover each other.

##### **6.19.6.2 Delete areas**

Send SMS command:"noarea+password+space+area name", tracker will

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reply:"noarea ok".

#### 6.19.6.3 Rename and set distance

Send SMS command "rename+password+space+old name;new name,distanceM" to the tracker. If name is not repeated and area doesn't cover other areas, it will reply "rename ok!" if configuration is successful.

e.g rename123456 area01;school,800M , it means the new area name is "school", and covers area of a radius of 800 meters.

#### 6.19.6.4 Activate multi-area management

Send SMS command "area+password+space+on" to the tracker and it will reply "Area on ok!". When the tracker enters the pre set area, it will send SMS "area location" to all the authorized phone numbers, and it will send same SMS when goes out of the area.

#### 6.19.6.5 Deactivate Multi-area management

Send SMS command "area+password+space+off" to tracker, it will reply "area off ok!"

### 6.19.7 Movement alarm

#### 6.19.7.1. Set up: when the unit stays immobile in a place for 3-10 minutes with

GPS signal reception you can send SMS “move+password+space+0200” to the tracker. This will activate the movement alert with an area radius of 200 meters. Maximum radius limit is 999 meters. 104 PRO will reply “move OK”. In case of such a movement it will reply SMS "move+location" to the

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authorized numbers at 3 minutes intervals.

Note: Setting the radius less than 100 meters may result in false movement alert. The fault alert occurs if GPS position is miscalculated due to bad GPS reception. Inaccurate GPS reading will cause the 104PRO to think that it is in a different location, possibly further from its current location, thus the processor will accept this as a movement and trigger the movement alarm. However, this may only occur if the 104 PRO is installed improperly in a place where it can't receive good signal.

6.19.7.2 Cancel: Send SMS “nomove+password” to deactivate the movement alarm.

#### **6.19.8 Over speed alarm**

Over speed alarm will be triggered when tracker exceeds speed limit predetermined by you. Setup: Send SMS “speed+password+space+speed” to the tracker and it will reply “speed ok!”. This means that you have set up over speed alarm successfully.

For example: “speed123456 080” 080 refers to 80km/h. When tracker's speed exceeds 80km/h, the tracker will send SMS “speed+080!+ location” to authorized numbers.

Cancel: Send SMS “nospeed+password” to deactivate the overspeed alarm.

Note: Minimum recommended setting for this function is 15mph

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### **6.19.9 ACC (Ignition) alarm**

6.19.9.1 This function is disabled as default. To active, send "ACC+password" to tracker, it will reply "ACC ok". And tracker will send "ACC on+latitude & longitude" to authorized numbers when the ignition on your vehicle has been switched "on" or "off"

6.19.9.2 Send "noACC+password" to disable this function, tracker will reply "noACC ok".

6.19.9.3 You can only enable or disable Ignition alarm reports that are sent to authorized numbers. If GPRS/internet tracking mode is active, the acc information will be automatically uploaded to the internet tracking platform.

### **6.20 Theft alarm**

**Send** "arm+password" to tracker, the GPS-303 will enter arm state and reply "Tracker is activated".

GPS-303's alarm can not be armed if the ignition is "on" and it will reply "set up fail! pls turn off ACC".

### **6.21 DISARM**

Send command "disarm+password" to tracker, tracker will disarm and reply "Tracker is deactivated", then it will turn off the alarm.

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## 6.22 Alarms under Arm State

### 6.22.1 ACC alarm

The unit will send SMS “ACC alarm+lat/long” to the authorized number at 3 minute intervals when the ignition is turned on.

Send SMS “disarm+password” to cancel this function.

### 6.22.2 Shock Sensor alarm

6.22.3.1 Setup: Shock sensor alarm is deactivated in default. To activate please send SMS “shock+password” to the tracker, and it will reply “Shock is activated!”, this means shock sensor alarm has set up successfully. When the tracker detects vibration, it will send SMS “Sensor alarm+location” to authorized numbers.

e.g : shock123456

To cancel shock sensor alarm please send sms : "noshock+password".

e.g. : noshock123456

#### 6.22.3.2 Shock sensor sensitivity configuration:

The sensitivity of the built-in shock sensor has three different levels:

First level: Alarm will be triggered with a slight vibration, send command "sensitivity+password+space+1" to choose this setting.

Second level: Alarm will be triggered after detecting 8 vibrations in 2 seconds, send command "sensitivity+password+space+2" to choose

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this setting

Third level: Alarm will be triggered after detecting 25 vibrations in 5 seconds, send command "sensitivity+password+space+3" to choose this setting.

## **6.24 Checking the Vehicle's Status.**

Send SMS "check+password" to the tracker to check its charging status, battery status, GPS signal status and GSM reception status. For example, send SMS "check123456", and following information will be returned:

Power: ON/OFF

Battery: 100%

GPRS: ON/OFF

GPS: OK/NO GPS

ACC: OFF/NO

GSM Signal: 1-32 The higher digit it shows; the stronger of GSM signals it receives.

## **6.25 Hardware restart/reset**

Send SMS "reset+password" to reset the GSM & GPS module of your GPS-303.

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## 6.26 Sleep Mode

### 6.26.1 Sleep by time

Send "sleep+password+space+time", the tracker will reply "sleep time ok".

If none of the alarms/alerts has been set and it has been inactive for 5 minutes, it will enter sleep mode. GPS module and LED will go off. GSM module (phone line) will stay active. Calling or sending SMS can wake the tracker back up from sleep mode.

e.g. :    sleep123456 time

### 6.26.2 Sleep by shock sensor

Send "sleep+password+space+shock", the tracker will reply "sleep shock ok". The tracker will enter sleep mode **if no vibration has been detected**.

GPS module and LED will both go off. GSM module will stay active so you will be able to communicate with the tracker. Vibration, movement, calling or sending a SMS text message can wake the tracker back up

e.g. sleep123456 shock

### 6.26.3 Deep Sleep by shock sensor

Send "sleep+password+space+deepshock", the tracker will reply "sleep deepshock ok". It will enter deep sleep mode if no vibrations have been detected for 5 minutes. GPS and GSM module will both go off, and LED will go off too. Only vibration can wake the tracker up from deep sleep

mode. Once awake, it will send notification message to the authorised numbers. As both GPS and GSM modules will be off you will not be able to communicate with the tracker. However, if you send any SMS command, it will receive and execute this command as soon as it wakes up from deep sleep mode.

e.g sleep123456 deepshock

#### **6.26.4 Turning sleep mode "off"**

Send SMS command "sleep+password+space+off" to turn all sleep/standby modes "off".

### **6.27 Scheduled wake-up**

Sending "schedule+password+space+1h" will configure your GPS-303 to stay in deep sleep mode and wake up once every hour, stay on for 5 minutes, report its location and go back to deep sleep mode.

(m : minute, h : hour, d : day) . The maximum time interval setting is 3 digits and can not exceed 30 days.

e.g. : schedule123456 30m will configure your GPS-303 to wake up and report its location every 30 minutes.

Send SMS "noschedule+password" to deactivate this function.

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## 6.28 IMEI number check

Send SMS "imei+password" to the unit and it will respond with IMEI number of its GSM module.

e.g imei123456

## 6.29 Set up Terminal (local) Time

Send SMS "time+space+zone+password+space+local time zone" to the tracker to configure the time zone setting. Example below can be used to set-up british summer time zone.

e.g: time zone123456 1

Note: If you are in a minutes time zone area, please use "-" .

e.g.: time zone123456 -6

## 6.30 TCP / UDP Switch

Command:"gprs+password,1,1" switch to UDP mode.

Command: "gprs+password,0,0" switch back to TCP mode, this is the default mode.

## 6.32 GPRS setting

GPRS tracking mode allows GPS-303 to upload its location data to an

internet live tracking server at preset intervals.

### 6.32.1 Setting up APN

6.32.1.1 APN stands for Access Point Name and differs with each GSM network.

For more information, contact your local SIM card network operator.

6.32.1.2 Send SMS “APN+password+space+APN”, the tracker will reply “APN OK” if succeeded.

e.g. apn123456 orangeinternet

6.32.1.3 Please check the list below for APN settings of some United Kingdom networks;

|                                        |                   |
|----------------------------------------|-------------------|
| apn123456 uk.lebara.mobi               | Lebara            |
| apn123456 general.t-mobile.uk          | T-mobile          |
| <b>apn123456 data.lycamobile.co.uk</b> | <b>Lycamobile</b> |
| apn123456 wap.vodafone.co.uk           | Vodafone          |
| apn123456 payandgo.o2.co.uk            | O2                |

### 6.32.2 GPRS User ID and password Setup

Most networks do not require password authentication while setting up the APN. However, if your network requires this setting please configure as following:

Send SMS “up+password+space+user+space+password”, If succeeded, tracker will reply “user, password ok!”. e.g. up123456 jonnes 666666”

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Note: 123456 is password of tracker, jonnes is the user name for GPRS login,  
666666 is the password for GPRS login.

### 6.32.3 IP and port setup

This setting will configure the GPS-303 to upload its location to the selected server.

Send SMS “adminip+password+space+IP+space+port” to the tracker. It will reply “adminip ok” if succeeded

e.g. adminip123456 listener.gpslive.co.uk 10200 Tracker will reply  
“adminip ok” if succeeded .

Note: 123456 is the password of tracker, listener.gpslive.co.uk is the IP  
address and 10200 is the port of gps-server.co.uk

## 6.33 Less GPRS traffic

If activated GPS-303 will enter less GPRS traffic mode after being stationary for 10 minutes, GPRS will disconnect and connect again when vehicle starts moving.

To activate this function: Send "less gprs+password on", tracker will reply "less gprs on ok".

e.g. less gprs123456 on

To deactivate this function: Send "less gprs+password off", tracker will reply "less gprs off ok".

e.g. less gprs123456 off

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## 6.34 Switching between “SMS” and “GPRS” mode

6.34.1 The default mode is “SMS”

6.34.2 To activate GPRS mode, send SMS “GPRS+password” to the unit, and it will reply “GPRS ok!”

6.34.3 To activate SMS mode, Send SMS “SMS+password” to the unit, it will reply “SMS ok!” and revert to “SMS” mode.

## 6.35 Set up monitor center number

1. When auto-track mode is active and no admin number has been set-up, 104 PRO can send automated location notifications to monitor center number instead.
2. Setup: send command “centernum+password+space+number” to the tracker, it will reply “centernum ok”  
e.g. centrum123456 07776665544
3. Cancel: Send “nocenternum+password” to tracker, it will reply “no center num ok”.  
e.g. nocenternum123456

Note: if there aren't any other active admin or monitor center numbers configured, auto-tracking notifications will be sent to the last number the nocenternum command was sent from.

## 7. Cautions

**Please comply with the instructions to extend the unit life: :**

1. Keep the unit dry. Constant exposure to elements may damage the components inside your tracker
2. Don't use & store the unit in dusty places.
3. Do not install or use your unit in overheated or overcooled places.
5. Clear the unit with a piece of dry cloth. Don't clean in chemicals, detergent.
6. Don't paint the unit.
7. Please read the user manual carefully before installation and operation.

## 8. Faults & the Solutions

| Faults          | Solution                                                                                                                              |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Fail to turn on | Please check the power wiring                                                                                                         |
| No GSM Signal   | Please make sure the sim card is activated and installed correctly. Testing Your tracker indoors may also cause GSM reception issues. |
| No GPS Signal   | Please check installation location. Thick metal surfaces does degrade the gps signal. (e.g. under vehicle bonnet)                     |
| SMS reply fail  | Password incorrect or wrong sms commands format                                                                                       |

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|                                                          |                                               |
|----------------------------------------------------------|-----------------------------------------------|
| Call without SMS reply<br>or cannot receive alarm<br>SMS | Authorized number is wrong or not configured. |
|----------------------------------------------------------|-----------------------------------------------|