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## AVL802 Vehicle Locator

### User's Manual

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#### **Dear users:**

Thank you for using the AVL802-based global positioning system automotive terminal. This equipment through the network registration, will you get the GPS service operators to offer the following services in whole or in part (specific content from local operators may be)

- Remote Tracking
- Anti-robbery alarm
- Emergency relief
- Scheduling monitoring
- Remote flameout
- Engine Timer

AVL802-based global positioning system on-board equipment is the use of advanced global satellite positioning technology, GSM / GPRS global mobile communications technology, intelligent control technology, anti-theft alarm technology in one vehicle monitoring devices. To provide for your vehicle tracking and management, scheduling, security, a number of services such as assistance.

In subsequent days, you will understand the vital equipment to the outstanding performance and excellent quality. In order to help you master the use of the equipment and to maximize its performance, we have to provide you with this Manual, designed to introduce you to the main function of the equipment, spare parts inventory, maintenance of the use of common sense, etc. Proper preservation of this brochure for future reference.

Once again, thank you for using our products!

#### **Attention.**

- Before the user to install equipment to read the statement.
- Before installing, please insert the SIM card, or equipment not work properly.
- Please make sure all the equipment connected to the right after the host power. Host Charged in the case not to install or demolition. If found errors or omissions line access, please cut off the power, otherwise easily damaged equipment.
- The equipment for the wireless communications equipment, oil and dangerous goods into place before you power cut off the mainframe.
- The device operates at 12V, in the work within the voltage range Use.
- Your GPS terminal's host is a low-power radio and a receiver, in use to receive and send radio frequency signal.
- In order to avoid electromagnetic interference or configuration is not compatible, you notice affixed with a place in accordance with the regulations to stop the use of equipment.

As described in the manual with the contents of your automotive GPS terminals do not match, the GPS terminal prevail.

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## Packing List

Locator(with attached GPS antenna)	✓
Connect Cable	✓
GSM Antena	✓
Emergency Alarm Button	✓
Engine Relay	option
Certificate	✓
User's Manual	✓

## Specifications

- Location Method : Global Positioning System(GPS)
- Location Accuracy :  $\leq 15\text{m}$ , Speed  $\leq 0.1\text{m/s}$ , Time  $\leq 1\text{ms}$
- Data Communication Method : SMS or GPRS
- Power Supply: +12V
- Backup Battery : built-in lithium battery +9V
- Power Consumption : idle  $\leq 50\text{mA}$  wait  $\leq 20\text{mA}$  peak  $\leq 2\text{A}$
- Operation Temperature :  $-20$  to  $+70^{\circ}\text{C}$
- Storage temperature :  $-40$  to  $+85^{\circ}\text{C}$
- GSM BAND : 850M/900M/1800M/1900M
- Alarm Response Time :  $\leq 6\text{s}$  ( When GPRS works normally )
- SIM card operating voltage: 1.8 V/3V
- Positioning accuracy: less than 15 meters (non-SA)
- Dimension 160 X 105 X 72mm

*Note 1: Current indicators means more than 12 V power supply equipment under the current work;*

*Note 2: The above means the current indicators in the GSM network environment favorable circumstances measured, the actual current work due to the local GSM network environment is quite different.*

## Functions

- Global satellite positioning
- Real-time monitoring
- Automatic Location Report
- GSM/GPRS Communications
- Emergency Alarm
- Engine On/Off Remotely and Safely
- Engine Timer
- Remote Parameter Setting
- Geofences
- Power Supply Cut-off Alarm
- Back-up Battery

## Installation

Unit to install the necessary authorization by the Company or the local service center their professional technical staff responsible for maintenance. Without company permission, users are not allowed to randomly dismantling or repair, or own risk.

### Insert SIM Card

Slightly push the small yellow button by the SIM card holder, the SIM card holder will be pushed out , Put SIM card in the holder and then insert SIM card holder back into locator.

See the figure below

SIM card test is done with a cell phone

- If SIM card uses password, remove it
- Test dialing a phone call
- Test receiving a phone call
- Test GPRS connection



### Installing Locator

Installation of vehicle locator is easy. We suggest that customer who purchase the vehicle have a designated specialist install the equipment. It is advised that locator be installed in concealed places of a car.

Please refer the table below for connections.

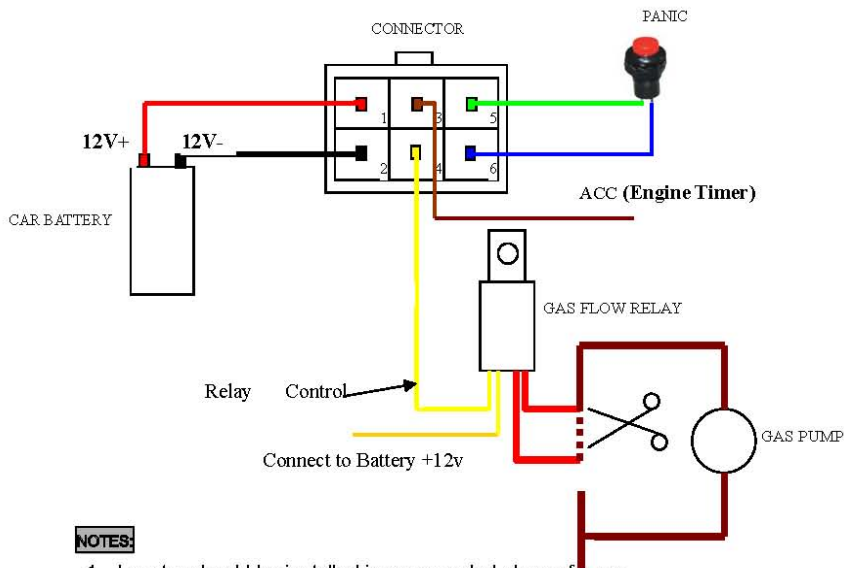
Engine kill control is done through the relay, which is turned on and off by commands sent by AVL802.

- AVL802's 1 yellow lines is connected to the relay's yellow line, another relay's yellow line connect to battery 12V.
- Thick red lines of the relay are connected to gas pump power line.

Red Line 1	Brown Line 3	Green Line 5
Power Supply 12V+	EngineTimer (ACC)	Emergency Alarm+
Black Line 2	Yellow Line 4	Blue Line 6
Power Supply 12V-	Engine Kill (RELAY)	Emergency Alarm-

### Installation method and steps

1. AVL802 is an electronic equipment of the state-of-art technologies and the installation and test should be handled by professionals.
2. Before installation, fill out Registration Form and submit it to service center and sign up to the service system.
3. Follow the following steps to install the locator. During the installation, don't turn on the power supply yet.



### NOTES:

1. Locator should be installed in a concealed place of a car.
2. Locator should be installed away from other wireless devices.
3. Locator can be fastened with screw or powerful glue.
4. It is suggested that locator be installed in :

- Inside the control panel in front of driver's seat.
- Or inside the control panel in front of passenger's seat.
- Or other concealed places

#### Install Power supply

- 1、 The equipment uses power supply of +10V ~ +30V ,Red line 1 is for anode ,Black line 2 is for cathode ;Avoid sharing power supply connections with the following :
  - Ignition switch
  - other
- 2、 Cathode should be connected separately.
- 3、 Don't turn on the power before installation is complete.

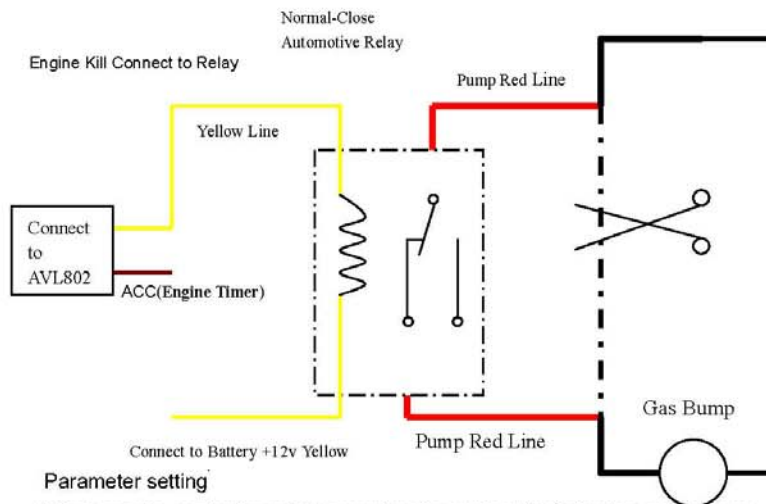
#### Install accessories

##### 1 . Panic button

Panic button can be easily glued under steering wheel with attached glue strip. When in an emergency, push the button for 2 seconds and an alarm message will be sent to service center.

##### 2 . Engine on/off relay

Find the power supply line to the gas pump. Cut it off and then connect through the relay. Be especially careful with the connection to avoid short circuit.



#### Parameter setting

Inform service center to register your locator and set the following parameters:

- Serial number of the locator ;
- GSM phone number for the locator ;
- Vehicle information including license plate number, engine number, model and color ;
- Information of vehicle owner ;
- Owner's cell phone number.

#### Install completion

When all installation steps are completed, user can start using the locator.

### General knowledge and maintenance

- 1、 When you encounter a problem using the locator, don't try to fix it. Manufacturer is not responsible for an unnatural damage of the equipment.
- 2、 Don't put the equipment in wet environment. Water may cause the equipment malfunction.
- 3、 When the vehicle is in a building, tunnel, or by a tall building, GPS or GSM signals may be affected and vehicle can not be located. But once the vehicle is out these areas, the locator will work normally.

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- 4、 If you have problem signing in,
    - Check if local GSM signal is too weak or SIM card is valid ;
    - Check if GSM antenna is well connected ;
    - Make sure GSM signal is totally blocked.
  - 5、 If GPS doesn't give location information :
    - Usually it takes quite a few minutes for GPS to acquire location data when is first-time use ;
    - Make sure GPS antenna is connected tightly ;
    - Make sure GPS antenna is not completely blocked.
  - 6、 False alarm ;

Avoid touching panic button to avoid false alarm.

### **Warranty**

- 1、 We garrantee one year warranty for the product. For any quality problem that causes the product malfunctions, it can be replaced within a year from the time the product is purchased.
- 2、 Beyond warranty period, users pay the cost of repairment.
- 3、 Service provider will not be responsible for any product opened by users themselves.

**RF exposure information:**

To maintain compliance with FCC RF exposure requirements, use handset that maintain a 20cm separation distance between the user's body and the host.

MPE limit for RF exposure at prediction frequency is 0.558mW/cm<sup>2</sup> for GSM850MHz and 1mW/cm<sup>2</sup> for GSM1900MHz. The MPE for GSM850MHz is 0.114 mW/cm<sup>2</sup> and 0.861mW/cm<sup>2</sup> for GSM1900MHz. It satisfy RF exposure compliance.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: the manufacturer is not responsible for any radio or tv interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.