User Guide for 85mm Multi-function GPS Speedometer and Tachometer
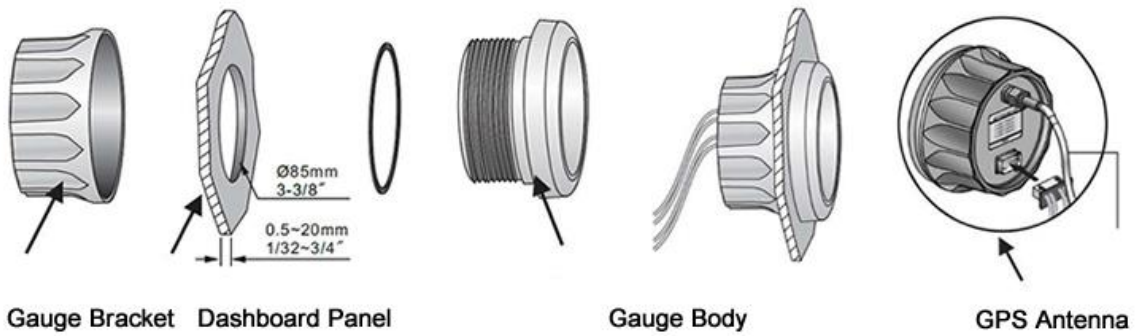
Gauge Bracket   Dashboard Panel

Ø85mm
3-3/8"

0.5~20mm
1/32~3/4"

Gauge Body

GPS Antenna

GPS Antenna Installation: sky

Fig.1   Fig.2   Fig.3

Wire harness definition	
black	Power Ground -
red	Power+(12/24V)
blue	Left Turn (+)
pink	Hazard Alarm(+)
purple	Right Turn (+)
white	High Beam(+)
Brown	Oil Pressure Alarm(+)
green	Neutral(-)
green	Gear 1(-)
green	Gear 2(-)
green	Gear 3(-)
green	Gear 4(-)
green	Gear 5(-)
green	Gear 6(-)
yellow	Fuel Gauge signal(ohm)
orange	Engine Speed signal(pulse)
grey	External Button (+)

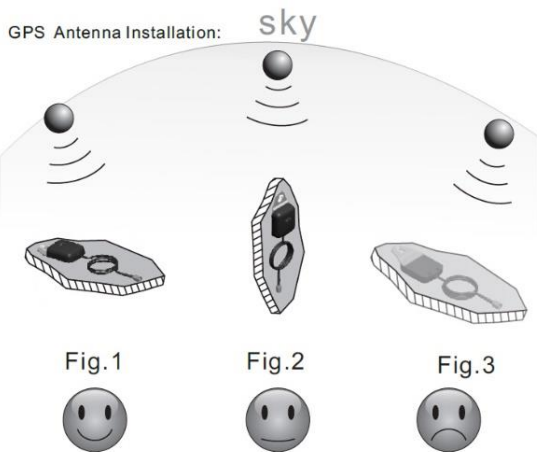**Install the Gauge**

a.   Cut an 85mm (3 3/8") hole in the panel (II) allow a clearance of . behind the panel.

b.   Remove fastening ring (I), insert gauge from front. Tighten gauge (III) using fastening ring (I)

c.   Securely fasten the GPS antenna, preferably outdoors (or inside front windscreen) so that it has a clear view of the sky to pick up satellite signals. Connect the antenna cable to socket on the gauge. Do not cut cable.

d.   After turning power on, allow the gauge to sample satellite signal for 1 minute.

e.   All data is for reference only and should not be trusted as sole navigation source.

Parameter Menu： PULSE, Unit, odo, oiL

Press and hold the back button, then power on.

The LCD will keep switching & showing **"PULSE, Unit, odo, oiL" every 1 second.**

Choose the target menu, release button to enter setting.

1.   **"PULSE": Set the engine speed RPM Ratio, unit: pulse/rpm, range: 0.5-655.3**

How to confirm RPM Ratio?

a.   If your sensor is installed on the flying wheel panel, the RPM ratio is equal to the number of gears of the engine.

b.   If the speed signal takes from W-Terminal of Alternator, the RPM ratio is equal to the half of the number of poles.
Normal RPM Ratio for Reference:

OutBoard Engine		InterBoard or Gasoline Engine			Diesel Engine
Electric Poles	RPM Ratio	Cylinder	Stroke	RPM Ratio	RPM Ratio=Gear Number
4	2	4	4	2	
6	3	6	4	3	
8	4	8	4	4	
10	5	10	4	5	
12	6	12	4	6	

c.   If you cannot find W-terminal of Alternator, you will need order separately our GR01 RPM sensor adapter to get RPM signal, which just need cross around the ignition coil cable.
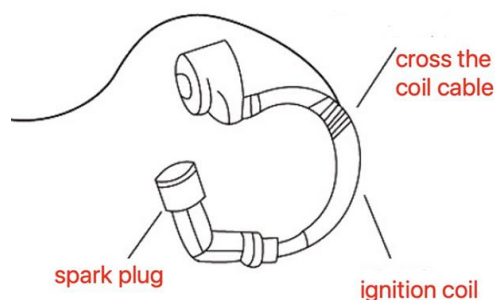
2. " odo"（Set Total Odometer）

After selecting "odo", the LCD will show for example "5000" (5000 km) , press the button to set the flashing digit from 0 to 999999 to set the target odometer value.

3." Unit"（Set Unit: km/h, mph）

LCD will switch show km/h, mph .Then release button, and wait for menu to complete flashing.

3. "oiL"(Set Fuel Gauge Signal)

LCD will show"o00002"（ohm range 10~180Ω）.

Press button to set target ohm range depends on **Table A**
Release button and wait for menu to complete flashing.
Table A

o 00000	0-190Ω
o 00001	0-180Ω
o 00002	10-180Ω
o 00003	240-33Ω
o 00004	240-30Ω

5. Odometer & Trip Odometer

Power on the speedometer, and long Press to reset the Trip Odometer to Zero.

Please noted: After setting, you should disconnect both Power+ and GND, and then re-power on, then it will save the setting. If you just cut Power +, then it'll not work properly.

6.Fuel Level &Voltmeter

Power on the speedometer, and press the button shortly to switch fuel level to voltmeter.