

INSTRUCTIONS

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s /,

1 8

Light on

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Hold the

Button

3 seconds

Flash

Hold the

Button

1 second

Thank you for purchasing our product. Before installing/operating the product, read the instructions carefully and retain them for future reference.

▲ Attention!

- For installation, follow the steps described. Any damage caused by wrong installation shall be imputed to the users.
- To avoid a short circuit from occurring do not pull or modify the wires during installation.
- Do not disassemble or change any parts. Opening and dissassembling this unit will void any warranty.
- Maintenance and repairs should be executed by our professionals only.

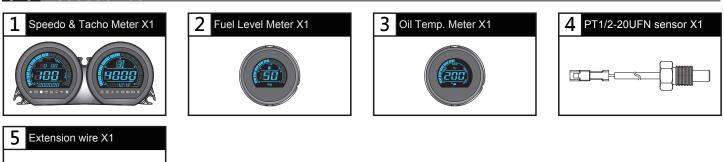
Symbol description:

NOTE

Some procedures must be followed to avoid damages to the product.

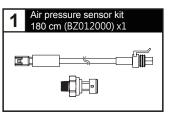
WARNING! Certain procedure must be followed to avoid damages to yourself, to the vehicle or to others.

1-1 Accessories

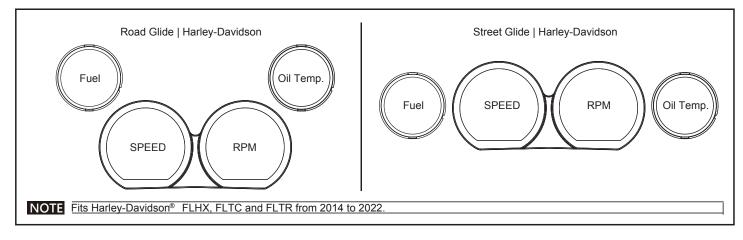


1-2 Optional accessories

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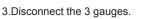
2-1 Gauge location



2-2 Disassembling Instructions



 Disconnect the ground (-) (negative pole of the battery) from the vehicle's battery.
 Remove the mounting screw and remove the fairing.



4. Remove the remaining 7

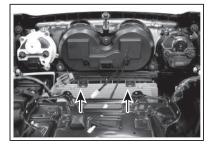
screws.







- 5.Ensure the Speed and Tach bezels remain in the fairing.

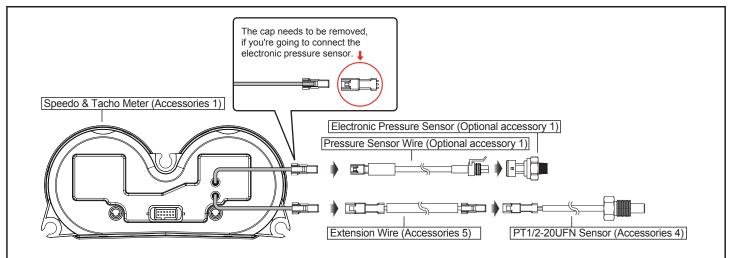


- 7. The new OIL TEMP gauge will use the existing white Volt mounting cup and the new Fuel Level gauge will use the existing black Fuel mounting cup. Place the new VOLT and OIL TEMP gauge in the appropriate housings and secure the bezel in place by lining up the tabs.
- 8.Remove the bushings and nuts for original Speed / Tachometer.
- 9. Re-use the bushings and nuts to install the KOSO speed/ta chometer
- 10.Reassemble the amplifier tray to the radio and speaker enclosures using the factory hardware; also give the top center Speed / Tach screw a final torquing with the gauge aligned to the fairing and amplifier tray.



6.The Fuel and Volt bezels and mounting cups will be reused. There are 3 tabs on the bezels that need to be carefully pushed back through the mounting cup to separate the bezel from the mounting cup and to release the factory gauge.

2-3 Wiring Installation Instructions



3-1 Overview Speedometer Tachometer Display range : 0 ~ 299 km/h (0 ~ 199 MPH) Display unit : 1 km/h (MPH) Display range : 0 ~ 9,990 RPM Display unit : 10 RPM Clock Gear meter •Display range : 12 / 24 hour format •Display range : -, N, P, R, 1~6 Time is not displayed when using radio. Air Pressure Gauge Odometer •Display range : Display --- when AC •Display range : 0 ~ 999,999 km (mile) no sensor is installed, 0 ~ 150 PSI return to zero upon exceed. •Display unit : 1 PSI •Display unit : 1 km (mile) Voltmeter Distance meter A,B •Display range : DC 8.0 ~ 18.0 V •Display range : 0 ~ 9,999.9 km (mile) return to zero upon exceed. • Display unit : 0.1 km (mile) Mileage maintenance user settings (closable) Indicator Indicator •Display range : user adjustable (500 ~ 16,000km / ¢ •Left indicatior light (Green) Fog Light (Green) 朷 300 ~ 10,000 mile) ~ -999 mile, automatically decreases •VHC light (Amber) (H) •TPMS light (Amber) (!) Security light (Red) according to the increase of total mileage. •Temperature warning light (Red) <u>_ا</u> •Warning Light (Amber/Green) •Display unit : 1 km (mile) •Constant speed light (Amber/Green) -Ď-(TCS light (Amber) (t<u>c</u>) •ABS light (Amber) **RANGE / Remaining Mileage Warning** (ABS) •Rain mode light (Blue) P •High beam light (Blue) • Display range : LCD shows "LO RNG" and flashing as ≣D •Oil pressure light (Red) •Engine warning light (Amber) warning when RANGE / Remaining Mileage lower than ملح C Photometric Sensing •Right indicatior light (Green) 16km (10miles). ⇔ Average fuel consumption •Display range : OFF/ 0.0 ~ 99.9 (L/100km, km/L) / 0.0 ~ 999.9 (MPG(US), MPG(UK))



Fuel meter •Display range : 0 ~ 100 % •Display unit : 1 %



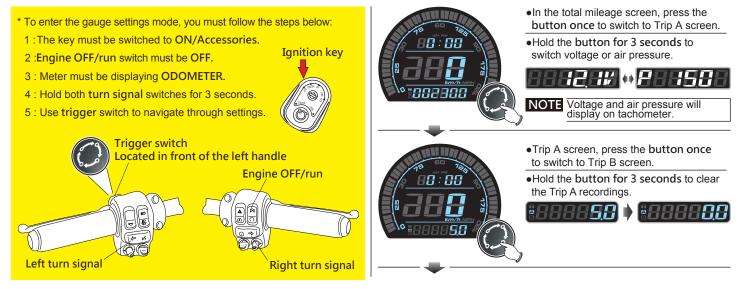
Oil temp. meter				
Display range :				
0 ~ 400 °F (32 ~ 248 °C)				
 Display range : 1 °F (1 °C) 				
Oil temp. warning				
 Setting range : 				
140 ~ 400 °F (60 ~ 250 °C)				
 Setting unit : 1 °F (1 °C) 				
Engine temperature				
●Display range : -40 ~ 300 °C				
(-40 ~ 572 °F)				
NOTE It will switch to engine				
temperature if the temperature				
sensor is not installed.				

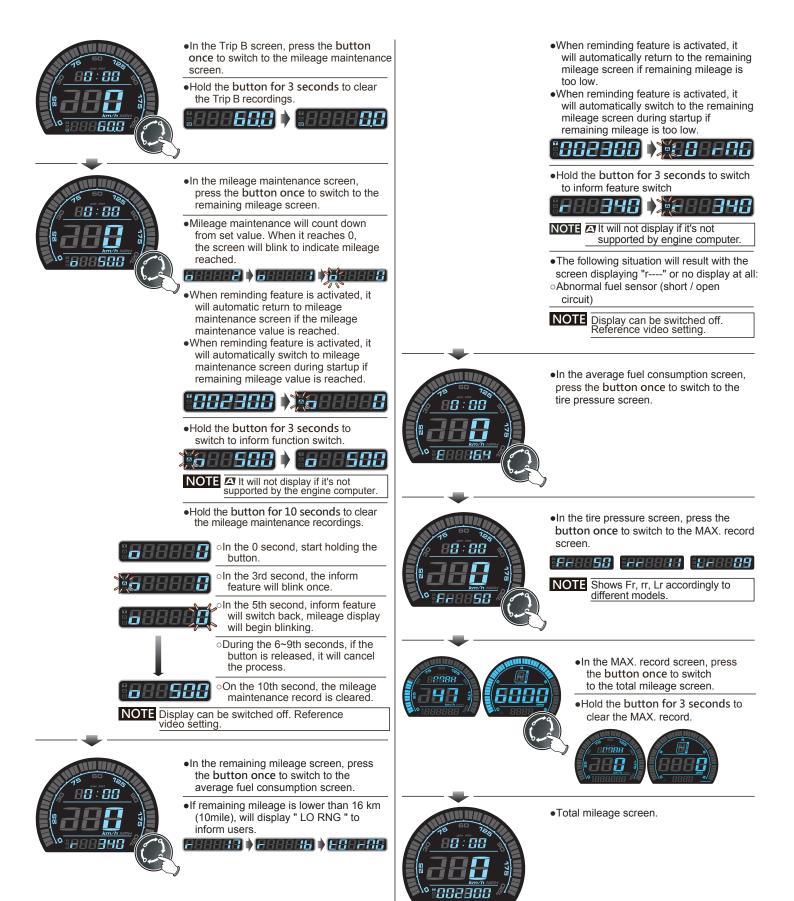
3-2 Settings Instructions

 Speedometer 	Display range : 0 ~ 299 km/h (0~199 MPH) switchable Display unit : 1 km/h (MPH)	•RANGE / Remaining Mileage Warning	Display range : LCD shows "LO RNG" and flashing as warning when RANGE / Remaining Mileage lower than 16km (10miles).
 Display interval 	<0.5 second	 Clock 	Display range : 12 / 24 hour format
Overspeed warning	Setting range : 30 ~ 299 km/h (19 ~ 199 MPH)	•Oil Temp.	Display range : 0 ~ 400 °F (32 ~ 248 °C)
setting	when above(including) setting value, warning light will lit.		Display unit : 1 °C (°F)
g		 Max. Oil Temp. record 	Display range : 0 ~ 400 °F (32 ~ 248 °C)
	Setting unit : 1 km/h (MPH)	•Voltmeter	Display range : DC 8.0 ~ 18.0 V
Max. speed record	Display range : 0 ~ 299 km/h (0~199 MPH)	•Air Pressure Gauge	Display range : Display when no sensor is
Internal and external	Display range : 0 ~999,999 C		installed, 0 ~ 150 PSI, 0~1034 kPa, 0.0~10.3 ba
odometer	Display unit : 1 km (mile)		Display unit : 1 PSI, 1 kPa , 0.1 bar
•Tire circumference	Setting range : 50 ~ 210 %	 Air Pressure Gauge 	Calibration range : 0 ~ 25 PSI±1 PSI
	Setting unit : 1 %	Calibration	Calibration unit : 1 PSI
○Trip meter A, B	Display range : 0.0~ 9,999.9 km (mile)	•Tire pressure	Display range : , Hi, 0 ~ 73 PSI, 0~506 kPa,
· · ·	Display unit : 0.1 km (mile)	•Tire pressure (TPMS, FR RR LR. It shows TPMS if the motorcycle	0.0~5.0 bar
Mileage maintenance	Setting range : off, 500 ~ 16,000 km	supports it.)	Display unit : 1 PSI, 1 kPa, 0.1 bar
C C	(300 ~ 10,000 mile) ~ -999 km (mile),	 Backlight brightness 	Setting range : 1 / 5(darkest) ~ 5 / 5(brightest)
	decrease according to the increase in total mileage.	 Backlight color 	Setting range : white, red, orange, yellow,
	Setting unit : 1 km (mile)	C C	green,blue, light blue, purple
 Gear meter 	Display range : -, N, P, R, 1~6	 Operating voltage 	DC 12 V
 Tachometer 	Display range : 0 ~ 9,990 RPM	•Temperature range	-10 ~ +60 °C
	Display unit : 10 RPM	•Specifications	JIS D 0203 (S2)
RPM shift light	Display range : 2,000 ~ 8,000 RPM	 Meter Weight-Speedo & 	Tacho 286 grams
-	Warning lights on when exceeding set value	•Meter Weight-Oil Temp.	81 grams
	(included).	 Meter Weight-Fuel Level 	81 grams
	Setting unit : 100 RPM	 Indication light 	Left indicatior light (Green)
Max. rotating speed	Display range : 0 ~ 9,990 RPM		VHC light (Amber) (B
 Engine temperature 	Display range : -40 ~ 300 °C (-40 ~ 572 °F)		Security light (Red)
	Display unit : 1 °C (°F)		Warning Light (Amber/Green)
 Fuel meter 	Display unit : 0~100 %		TCS light (Amber)
Fuel warning setting	Setting range :		Rain mode light (Blue)
	1. HD Standard - LCD flashing as warning when		Oil pressure light (Red) 😁
	Fuel level resistance greater than 211Ω , and will		Photometric Sensing
	turn off when resistance smaller than 187Ω.		Fog Light (Green)
	2. Customize - LCD flashing as warning when		TPMS light (Amber)
	Fuel level lower than 20%, and will turn off		Temperature warning light (Red)
	when fuel level higher than 30%.		Constant speed light (Amber/Green) 🌾
 Fuel tank volume 	Setting range : OFF/ 1.0 ~ 9.9 US gallons		ABS light (Amber)
 Average fuel 	Display range : OFF/ 0.0 ~ 99.9 (L/100km, km/L) /		High beam light (Blue) ≣□
consumption	0.0 ~ 999.9 (MPG(US), MPG(UK))		Engine warning light (Amber)
	Display unit : L/100km, km/L, MPG(US), MPG(UK)		Right indicatior light (Green)
•RANGE /	Display range : 0 ~ 9,999 km (6,249 mile)		
Remaining Mileage	Display unit : 1 km (mile)		

NOTE Design and specification may change without further notice.

3-3 Settings mode



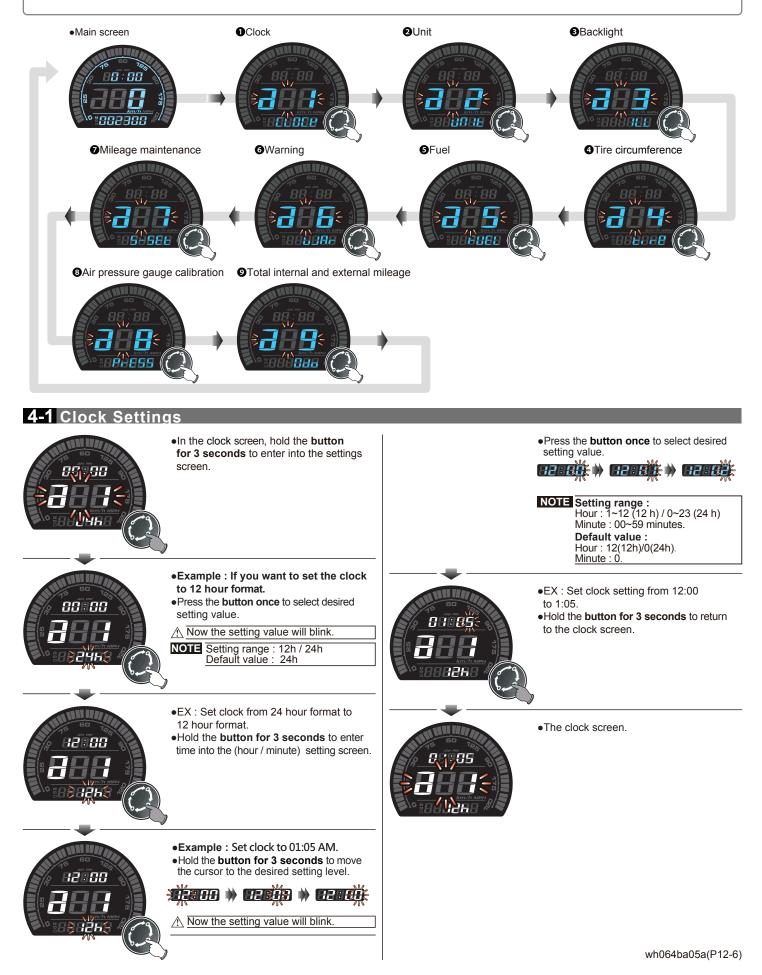


4 Setting Screen Switching Description

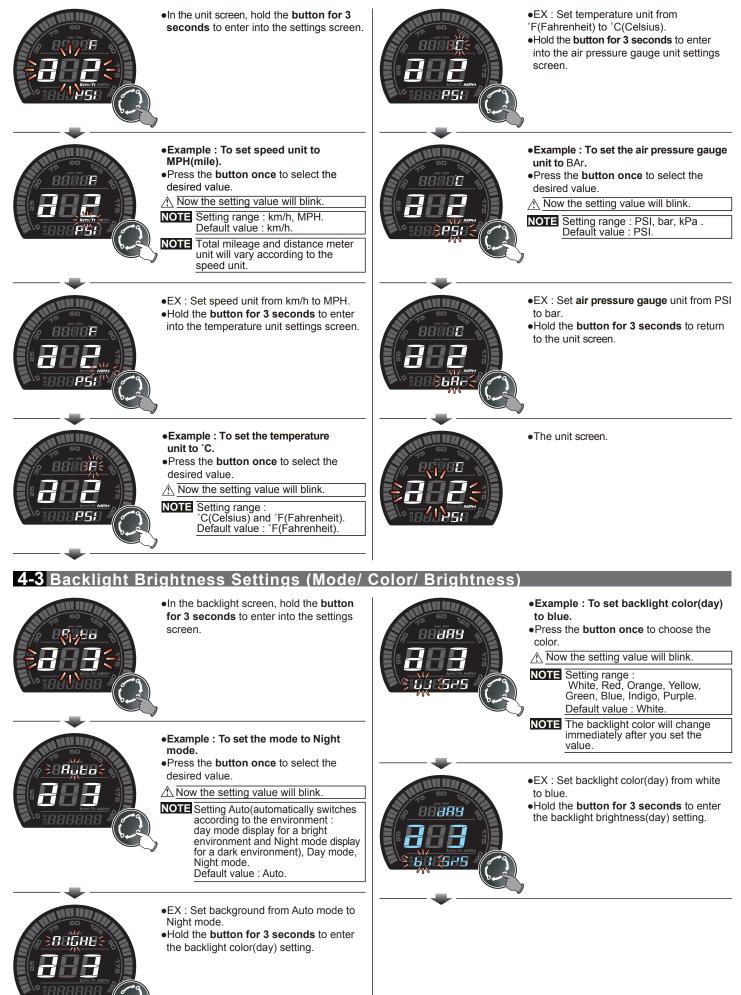
Press the button to select

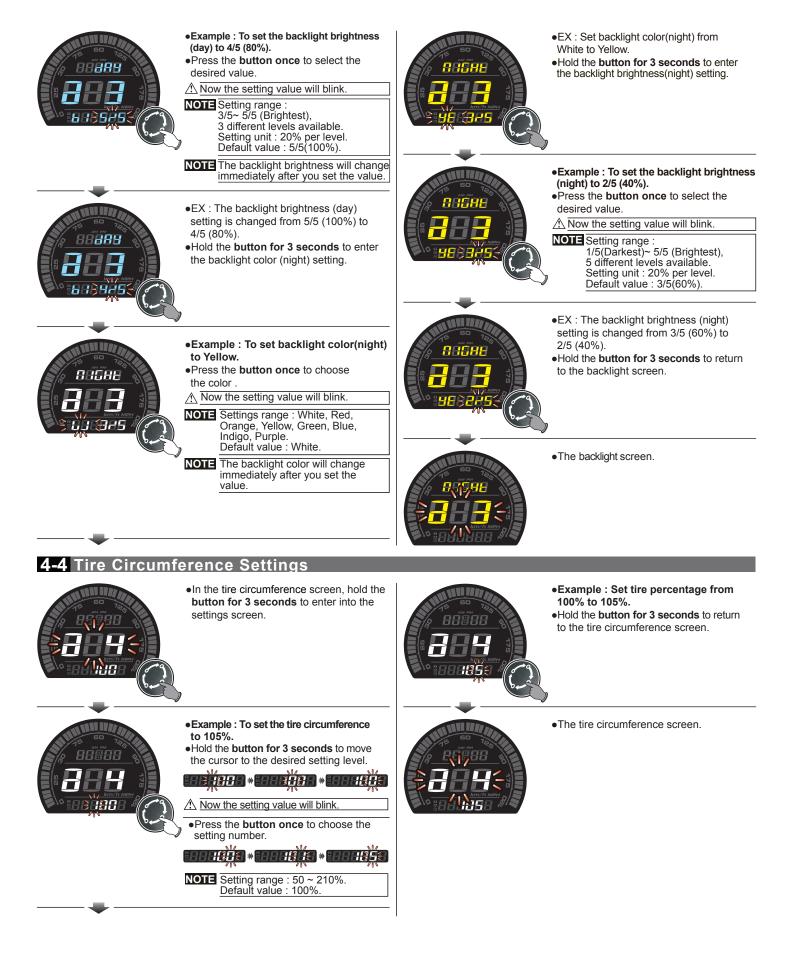
●Clock ②Unit ③Backlight ④Tire circumference ④Fuel ④Warning ⑦Mileage maintenance ③Air pressure gauge calibration ④Total internal and external mileage.

NOTE During setting, if the button is not pressed in 30 seconds, it will automatically return to the startup screen.



4-2 Unit Settings(Speed/ Temperature/ Air pressure gauge)





4-5 Fuel Settings



Scan QR code for information.

4-6 Warning Settings (Overspeed / Over RPM / Overheat)



•In warning screen, hold the **button for 3 seconds** to enter into the settings screen.



•Press the **button once** to choose the setting number.

•Warning indicator operation setting •overspeed, refer to 4-6-1. •Warning indicator operation setting •over RPM, refer to 4-6-2. •Warning indicator operation setting •overheat, refer to 4-6-3.

4-6-1 Warning Settings (Overspeed)



•Hold the **button for 3 seconds** to enter overspeed warning setting screen.



- •EX : Set the overspeed warning value from 60 km/h to 90 km/h.
- •Hold the **button for 3 seconds** to return to warning screen.



•Example : To set overspeed warning value to 90 km/h. •Hold the button for 3 seconds to move the cursor to the desired settings level.

 Now the setting value will blink.

 NOTE
 Settings range : 30 ~ 299 km/h

(19 ~ 199 MPH). Default value : 60 km/h (38 MPH).



•Press the **button once** to choose the setting number.



•The warning setting screen. •Press the **button once** to enter next setting.

4-6-2 Warning Settings (Over RPM)



•Hold the **button for 3 seconds** to enter over rpm warning setting screen.



EX : Set the over rpm warning value from 5,500 RPM to 9,000 RPM.
Hold the button for 3 seconds to return to warning screen.



•Example : To set over rpm warning value to 9,000 RPM. •Hold the button for 3 seconds to move the cursor to the desired settings level.

the cursor to the desired settings level. ∧ Now the setting value will blink.

NOTE Settings range : 1,000 ~ 10,000 RPM. Default value : 5,500 RPM.



• Press the **button once** to choose the setting number.



•The warning setting screen. •Press the **button once** to enter next setting.





•Hold the **button for 3 seconds** to enter overheat warning setting screen.



•EX : Set the overheat warning value from 356 °F to 203 °F.

•Hold the **button for 3 seconds** to return to warning screen.



•Example : To set overheat warning value to 203 °F.

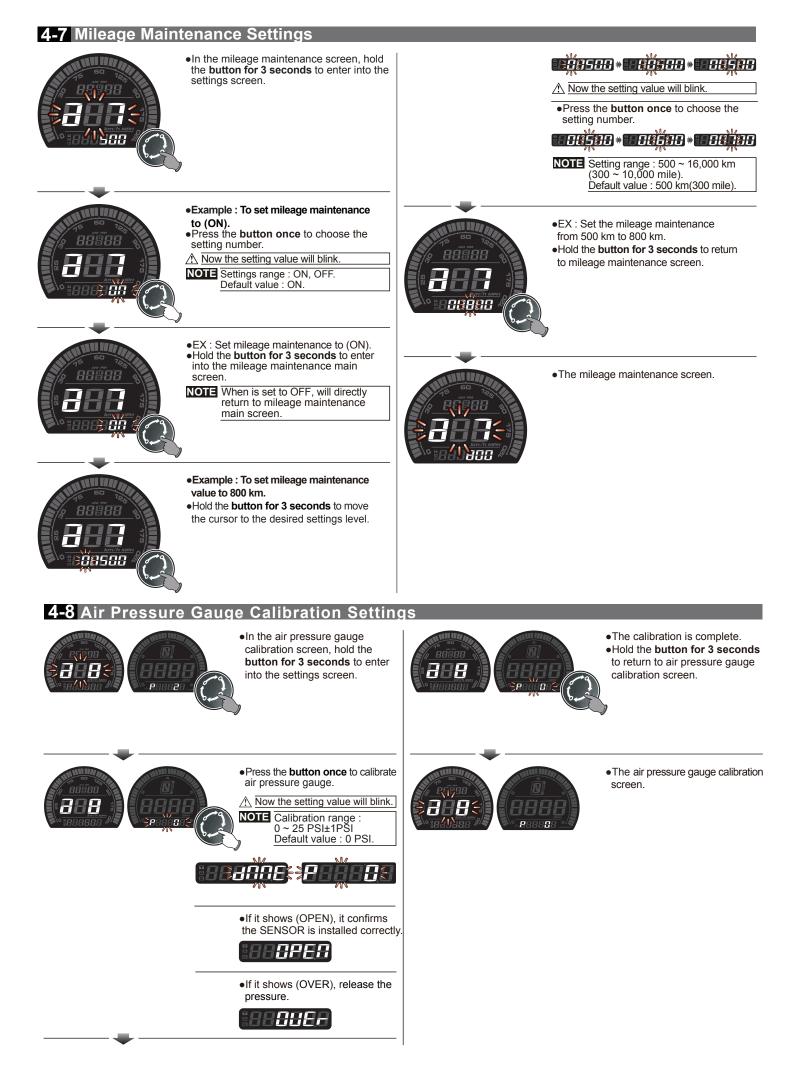
•Hold the **button for 3 seconds** to move the cursor to the desired settings level.

▲ Now the setting value will blink.
NOTE Settings range : 60 °C ~ 250 °C (140 ~ 400 °F).
Default value : 180 °C (356 °F).

•Press the **button once** to choose the setting number.



•The warning screen.



4-9 Total internal and external odometer settings



Scan QR code for information.

5 Troubleshooting

The following situations	do not indicate malfunctions of the produc Check item	t. Check the following be Trouble	efore taking it in for repair. Check item
The meter doesn't work when the power is on.	 The power isn't supplied to the meter. →Make sure the wiring is connected. The wiring and fuse are not broken. →The battery is too old to supply needed power (DC 12 V). 	Fuel meter does not display or display error. Thermometer does not display or display error.	 Check your fuel tank. Make sure the wiring harnes. is connected properly. Make sure the temperature wire is connected properly.
The meter shows incorrect information or keeps performing system reboot.	 Check the voltage of your battery and make sure the voltage is over DC 12 V. 	The clock is incorrect.	•Check in the clock settings. menu if the values are correct.
Speedometer does not display or display error.	 Make sure the speed sensor is connected properly. →check the speed sensor wire is connected correctly. Check the setting. →Check in the settings menu to see if the settings speed are correct. 		

% If the problems still cannot be solved, contact our technical department for assistance.