

# INSTALLATION



Thank you for purchasing the HD-03 series kit. Before installing, or operating this unit, please read the instructions thoroughly and retain them for future reference.

#### **⚠** Attention!

- 1. This meter only functions with DC 12V.
- 2. Any damages caused by faulty installation shall be imputed to the users.
- 3. To avoid a short circuit from occuring, do not pull or modify the wires during installation.
- 4. Dissasembling this unit will void your warranty. Maintenance should be executed by our professionals.

#### **OMARK MEANING:**

**NOTE** You could get the installation details from the information behind the mark.

▲ WARNING! Some processes must be followed to avoid damages to yourself or the public.

A CAUTION! Some processes must be followed to avoid the damage to the vehicle







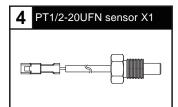


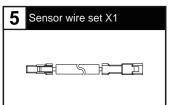
#### 1 Accessories





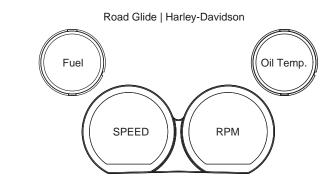


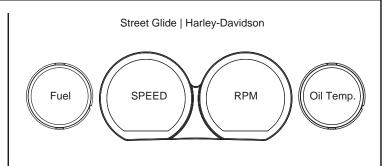




NOTE Contact your local distributor, if the items received in the box are not the same as the items listed above.

## 2-1 Gauge location



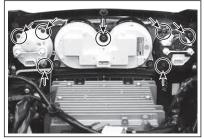


NOTE Fit Harley-Davidson ® FLHX, FLTC and FLTR from 2014 to 2017

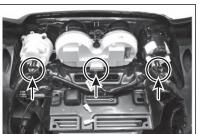
#### 2-2 Disassembling Instructions



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



4.Remove the remaining 7 screws.



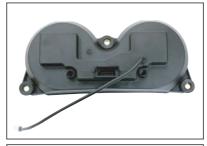
3.Disconnect the 3 gauges.



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



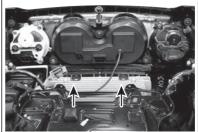
6. The Fuel and Volts bezels and mounting cups will be reused. There are 3 tabs on the bezels that need to be carefully pushed back through the mounting cup to separate the bezel from the mounting cup and to release the factory gauge.



9. Put the bushings and nuts to KOSO Speed / Tachometer.



7. The new OIL TEMP gauge will use the existing white Volts mounting cup and the new Fuel Level gauge will use the existing black Fuel mounting cup. Place the new VOLTS and OIL TEMP gauge in the appropriate housings and secure the bezel in place by lining up the tabs.

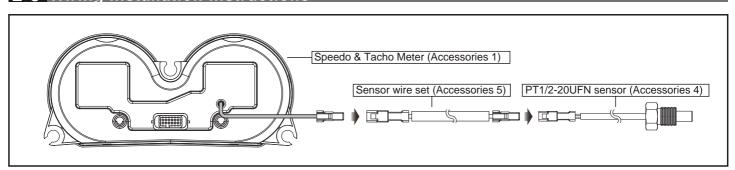


10.Reassemble the amplifier tray to the radio and sperker enclosures using the factory hardware; also give the top center Speed / Tach screw a final torqueing with the gauge aligned to the fairing and amplifier tray.



8.Remove the bushings and nuts for original Speed / Tachometer.

### 2-3 Wiring Installation Instructions



## 3-1 Overview

Speedometer •Display range: 0 ~ 299 km/h (0 ~ 199 MPH) •Display unit: 1 km/h (MPH)

Tachometer •Display range : 0 ~ 9,990 RPM •Display unit : 10 RPM

Gear meter

(-40 ~ 572 °F)

Display range : N, R, P, 1 ~ 6

Display range: 12 / 24 hour format Time is not displayed when using radio

Odometer

•Display range: 0 ~ 999,999 km (mile) return to zero upon exceed.

Display unit: 1 km (mile)

Distance meter A,B Display range : 0 ~ 9,999.9 km (mile) return to zero upon exceed.

•Display unit: 0.1 km (mile)

Mileage maintenance user settings (closable)

 Display range: user adjustable (500 ~ 16,000km /  $300 \sim 10,000$  mile)  $\sim -999$  mile, automatically decreases according to the increase of total mileage.

•Display unit: 1 km (mile)

RANGE / Remaining Mileage Warning

•Display range: LCD shows "LO RNG" and flashing as warning when RNAGE / Remaining Mileage lower than 16 km (10 miles).

Average fuel consumption

Setting range :

OFF / L/100km / km/L / MPG (US spec.) / MPG(UK spec.)

Engine temperature •Display range : -40 ~ 300 °C Voltmeter Display range : 8 ~ 18 V

Indicators  $\Diamond$ Turn signal (Green) Photometric Sensing Oil (Red) 42 Engine warning (Yellow) C Constant speed (Orange / Green) (3) Security (Red)

Indicators Water temperature (Blue) 走 •Warning Light (Orange/Green) <u>-D</u>-•High beam (Blue) ≣() •Fog Light (Green) 却 ABS (Yellow) ((ABS)) Turn signal (Green)



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)

### 3-2 Settings Instructions

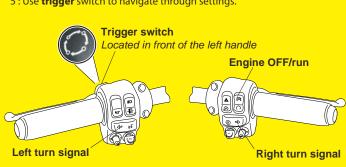
	•Speedometer	Display range: 0 ~ 299 km/h (0 ~ 199 MPH) switchable Display unit: 1 km/h (MPH)
	oDisplay interval	<0.5 second
	Overspeed warning setting	Setting range: 30 ~ 299 km/h (19 ~ 199 MPH) when above(including) setting value, warning light will lit. Setting unit: 1 km/h (MPH)
	oMax. speed record	Display range: 0 ~ 299 km (mile)
	olnternal and external odometer	Display range: 0 ~ 999,999 C Display unit: 1 km (mile)
	∘Tire circumference	Setting range: 50 ~ 210% Setting unit: 1%
	∘Trip meter A \ B	Display range: 0 ~ 9,999.9 km (mile) Display unit: 0.1 km (mile)
	oMileage maintenance	Setting range: off / 500 ~ 16,000 km (300 ~ 10,000 mile) ~ -999 km (mile), decrease according to the increase in total mileage.  Setting unit: 1 km (mile)
	•Gear meter	Display range: off / N / P / R / 1~6
	Tachometer	Display range: 0 ~ 9,990 RPM Display unit: 10 RPM
	RPM shift light	Display range: 2,000 ~ 8,000 RPM Warning lights on when exceed setting value (including). Setting unit: 100 RPM
	oMax. rotating speed	Display range: 0 ~ 8,000 RPM Display unit : 100 RPM
	<ul> <li>Engine temperature</li> </ul>	Setting range : -40 ~ 300 °C (-40 ~ 572 °F)
	<ul><li>Fuel meter</li></ul>	Setting range: HD Std / Cust
	Fuel warning setting	Setting range: 1. HD Standard - LCD flashing as warning when Fuel level resistance greater than $211\Omega$ , and will turn off when resistance smaller than $187\Omega$ . 2. Customize - LCD flashing as warning when Fuel level lower than 20%, and will turn off when fuel level higher than 30%.

	Setting range: OFF / 1.0 ~ 9.9 US gallons			
0	Setting range: OFF / L/100km / km/L /			
consumption	<b>5</b>	MPG (US spec.) / MPG (UK	. ,	
•RANGE /	Display range : 0 ~ 9,999 km (6,249 miles)			
Remaining Mileage	Display unit: 1 km (mile)			
RANGE / Remaining	Display range: LCD shows "LO RNG" and			
Mileage Warning	•	as warning when RANGE / Remair	ning	
		lower than 16 km (10 miles).		
•Clock		range: 12 / 24 hour format		
<ul><li>Oil Temp.</li></ul>	Display range : 0 ~ 400 °F (32 ~ 248 °C)			
		unit : 1 °F (°C)		
oMax. Oil Temp. record		range: 0 ~ 400 °F (32 ~ 248 °C)		
•Voltmeter		range : 8 ~ 18 V	4\	
Backlight brightness	•	range: $1/5$ (darkest) ~ $5/5$ (brighter	est)	
Backlight color	Setting r	ange : red / blue DC 12 V		
Operating voltage		= * := :		
Temperature range		-10 ~ 60 °C		
Specifications	0 Tl	JIS D 0203 (S2)		
Meter Weight - Speedo		286 grams		
Meter Weight - Oil Tem		81 grams		
Meter Weight -Fuel Lev	/ei	81 grams	4	
<ul><li>Indicatiors</li></ul>		Turn signal (Green)	<b>4</b>	
		Photometric Sensing		
		Oil (Red)	م <del>ت</del> ح.	
		Engine warning (Yellow)	Ö	
		Constant speed (Orange / Green)	(O)	
		Security (Red)		
		Water temperature (Blue) Warning Light (Orange/Green)	-D- ===	
		High beam (Blue)	<u>.</u> П.	
		Fog Light (Green)	<b>卸</b>	
		ABS (Yellow)	#U (ABS)	
		ADD (TellOW)		

NOTE Design and specification may change without further notice.

### 3-3 Entering the settings

- \* To enter the gauge settings mode, you must follow the steps below:
- 1: The key must be switched to **ON/Accessories**
- 2: Engine OFF/run switch must be OFF.
- 3: Meter must be displaying **ODOMETER**.
- 4: Hold both turn signal switches for 3 seconds.
- 5: Use **trigger** switch to navigate through settings.





- In the total mileage screen, press the button once to switch to Trip A screen.
- Hold the button for 3 seconds, to switch engine temp. or voltage.

Turn signal (Green)



**NOTE** Engine temp. and voltage will display on tachometer.



- Trip A screen, press the **button once** to switch to Trip B screen.
- Hold the button for 3 seconds to clear the Trip A recordings.





- Trip B screen, press the button once to switch to the mileage maintenance screen.
- Hold the button for 3 seconds to clear the Trip B recordings.





- In the mileage maintenance screen, press the button once to switch to the remaining mileage screen.
- Mileage maintenance will count down from setting value, when it reaches 0, the screen will blink to indicate millage reached.

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- When reminding feature is activated, it will automatic return to mileage maintenance screen if the mileage maintenance value is reached.
- When reminding feature is activated, it will automatically switch to mileage maintenance screen during startup if remaining mileage value is reached.

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• Hold the button for 3 seconds to switch to inform function switch.



NOTE A It will not display if it's not supported in engine computer

• Hold the button for 10 seconds to clear the mileage maintenance recordings.



oIn the 0 second, start holding the button.



oIn the 3rd second, the inform feature will blink once.



In the 5th second, inform feature will switch back, mileage display will begin blinking. oDuring the 6~9th seconds, if the



button is released, it will cancel the process. On the 10th second, the mileage



maintenance record is cleared. NOTE Display can be switch off. Please reference vidėo šetting.

- •In the remaining mileage screen, press the button once to switch to the average fuel consumption screen.
- •Remaining mileage is lower than 16 km (10mile), will display " LO RNG " to inform users.

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- When reminding feature is activated, it will automatic return to the remaining mileage screen, if remaining mileage is too low.
- When reminding feature is activated, it will automatic switch to the remaining mileage screen during startup, if remaining mileage is too low.



 Hold the button for 3 seconds to switch to inform feature switch



NOTE A It will not display if it's not supported in engine computer.

- •The following situation will result displaying "r----" or no display at all.
- oAbnormal fuel sensor (short / open circuit)



**NOTE** Display can be switch off. Please reference video setting.



•In the average fuel consumption screen, press the button once to switch to the MAX. record screen.



- •In the MAX. record screen, press the button once once to switch to the total mileage screen.
- •Hold the button for 3 seconds to clear the MAX, record.







Total mileage screen.