

INSTALLATION



●Thank you for purchasing the our product. Before installing. Before operating this unit, please red 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.

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

⚠ Some processes must be followed to avoid the affection caused by wrong installation.

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







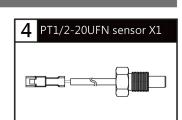
CAUTION! Some processes must be followed to avoid the damage to the vehicle.

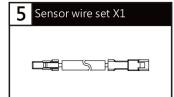
1 Accessories





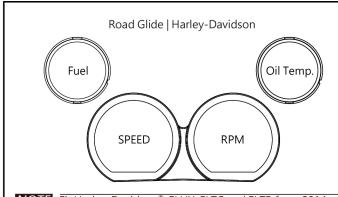


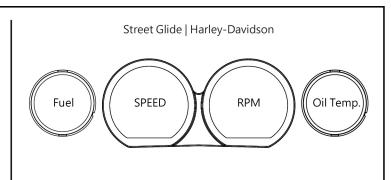




NOTE Contact your local distributor, if the items received in the box are not the same as the items

2-1 Gauge location





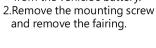
NOTE Fit Harley-Davidson® FLHX, FLTC and FLTR from 2014 to 2017

2-2 Disassembling Instructions



1.Disconnect the ground (-) (negative pole of the battery) from the vehicle's battery.

and remove the fairing.





4.Remove the remaining 7



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.



10.Reassemble the amplifier

9. Put the bushings and

Speed / Tachometer.

nuts to KOSO

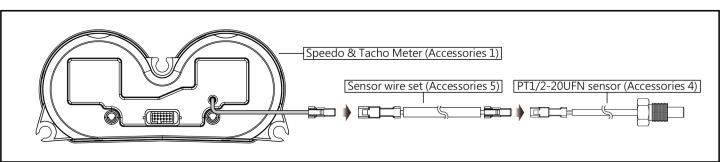
7.The new OIL TEMP gauge will use the existing white Volts mounting cup and the new Fuel Level gauge will use the existing black Fuel mounting cup. Place the new VOLTS and OIL TEMP gauge in the appropriate housings and secure the bezel in place by lining up the tabs.

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



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.

2-3 Wiring Installation Instructions



3-1 Overview

Speedometer

● 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

Gear meter

• 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)

Millage maintenance user settings (closable)

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

Average fuel consumption

• Setting range: OFF \ L/100km \ km/L \ MPG (US spec.) MPG(UK spec.)

Indicator

- Turn signal (Green)
- ●Photometric Sensing
- ●Oil (Red)
- Engine warning (Yellow) Constant speed (Orange / Green)
- Security (Red)

Indicator

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• Water temperature (Blue) Warning Light (Orange/Green)

Engine temperature

(-40 ~ 572 °F)

- High beam (Blue)
- Fog Light (Green)
- ABS (Yellow)
- (ABS) Turn signal (Green)

• Display range : N, R, P, $1 \sim 6$

●Display range: -40 ~ 300 °C

● Display range: 8 ~ 18 V

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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

instructions		
Display range : 0 ~ 299 km/h (0~199 MPH)	OFuel tank volume	Setting range : OFF/ 1.0 ~ 9.9 US gallons
switchable	OAverage fuel	Setting range: OFF \ L/100km \ km/L \
Display unit: 1 km/h (MPH)	consumption	MPG (US spec.) MPG(UK spec.)
<0.5 second	●RANGE /	Display range: 0 ~ 9,999 km (6,249 mile)
Setting range : 30 ~ 299 km/h (19 ~ 199 MPH)	Remaining Mileage	Display unit: 1 km (mile)
when above(including) setting value, warning	RANGE / Remaining	Display range: LCD shows "LO RNG" and
light will lit.	Mileage Warning	flashing as warning when RNAGE / Remaining
		Mileage lower than 16km (10miles).
		Setting range: 12/24 hour format
,	●Oil Temp.	Display range: 0 ~ 400 °F (32 ~ 248 °C)
		Display unit: 1 ℃ (°F)
		Display range: 8 ~ 18 V
		Setting range : $1 \sim 5$ (darkest) $\sim 5 / 5$ (brightest)
		Setting range: red \ blue
		DC 12 V
		-10 ~ +60 °C
		JIS D 0203 (S2)
Setting unit: 1 km (mile)		
		_ 9
	•Indication light	Turn signal (Green)
		Photometric Sensing
		Oil (Red) 😽 Engine warning (Yellow) 😭
		Constant speed (Orange / Green) 🖔
		Security (Red)
		Water temperature (Blue)
		Warning Light (Orange/Green)
		High beam (Blue)
		Fog Light (Green)
		ABS (Yellow)
		Turn signal (Green)
1. HD Standard - LCD hashing as walling when		
	switchable Display unit: 1 km/h (MPH) <0.5 second Setting range: 30 ~ 299 km/h (19 ~ 199 MPH) when above(including) setting value, warning light will lit. Setting unit: 1 km/h (MPH) Display range: 0 ~ 299 km (mile) I Display range: 0 ~ 299,999 C Display unit: 1 km (mile) Setting range: 50 ~ 210 % Setting unit: 1 % Display range: 0 ~ 9,999.9 km (mile) Display range: 0 ~ 9,999.9 km (mile) esetting range: off 500 ~ 16,000 km (300 ~ 10,000 mile) ~ -999 km (mile) decrease according to the increase in total millage. Setting unit: 1 km (mile) Display range: off N P R 1~6 Display range: 0 ~ 9,990 RPM Display range: 2,000 ~ 8,000 RPM Warning lights on when exceed setting value (including). Setting unit: 100 RPM	Display range: 0 ~ 299 km/h (0~199 MPH) switchable Display unit: 1 km/h (MPH) <0.5 second Setting range: 30 ~ 299 km/h (19 ~ 199 MPH) when above(including) setting value, warning light will lit. Setting unit: 1 km/h (MPH) Display range: 0 ~ 299 km (mile) Display range: 0 ~ 299 km (mile) Display unit: 1 km (mile) Setting unit: 1 % Display range: 0 ~ 9,999.9 km (mile) Display unit: 0.1 km (mile) ESetting range: 0 ~ 9,999.9 km (mile) Display unit: 0.1 km (mile) eSetting range: off \ 500 ~ 16,000 km (300 ~ 10,000 mile) ~ -999 km (mile) Display range: off \ N \ P \ R \ 1 ~ 6 Display range: 0 ~ 9,990 RPM Display range: 0 ~ 9,990 RPM Display range: 0 ~ 9,990 RPM Display range: 0 ~ 8,000 RPM Warning lights on when exceed setting value (including). Setting range: -40 ~ 300 °C (-40 ~ 572 °F) Setting range: HD Std \ Cust Setting range:

NOTE Design and specification may change without further notice.

3-3 Entering in the setting

* To enter the gauge settings mode, you must follow the steps below:

when fuel level higher than 30%.

turn off when resistance smaller than 187Ω .

2. Customize - LCD flashing as warning when Fuel level lower than 20%, and will turn off

Ignition key

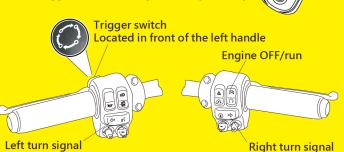
1: The key must be switched to ON/Accessories.

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.



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• In the total millage screen, press the button once to switch to Trip A screen.

● Hold the **button for 3 seconds**, to switch engine temp, or voltage



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.







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● Trip B screen, press the **button once** to switch to the millage maintenance screen.

● Hold the button for 3 seconds to clear the Trip B recordings.



reached.

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



● 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.

the millage maintenance recordings.



OIn the 0 second, start holding the



OIn the 5th second, inform feature



ODuring the 6~9th seconds, if release button, will cancel the



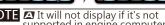


• In the millage maintenance screen, press the button once to switch to the Millage maintenance will count down

- When reminding feature is activated, it remaining millage value is reached.







● Hold the button for 10 seconds to clear



○In the 3rd second, the inform feature will blink once.



will switch back, millage display will begin blinking.



On the 10th second, the millage maintenance record is cleared.



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



- In the remaining millage screen, press the button once to switch to the average fuel consumption screen.
- Remaining millage 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 millage screen, if remaining millage is too low.
- •When reminding feature is activated, it will automatic switch to the remaining millage screen during startup, if remaining millage 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 millage screen.
- Hold the **button for 3 seconds** to clear the MAX. record.





Total millage screen.



KOSO Harley Touring 4pcs Kit (Speedo&Tacho / Oil Temp. / Fuel Level) - Information for setting screen and how to do setting -



Please scan QR code for information.

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