

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.

- 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





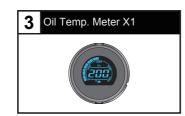


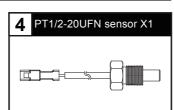


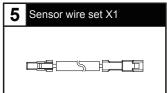
1 Accessories





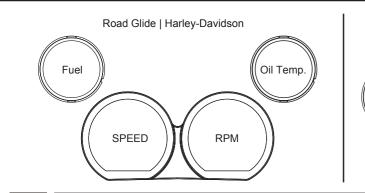


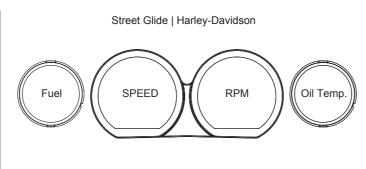




NOTE Contact your local distributor, if the items received in the box are not the same as the items listed above

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.



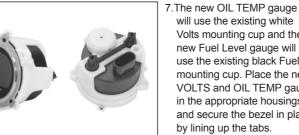
5.Ensure the Speed and Tach bezels remain in the fairing.



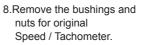
6.The Fuel and Volts bezels and mounting cups will be reused. There are 3 tabs on the bezels that need to be carefully pushed back through the mounting cup to separate the bezel from the mounting cup and to release the factory gauge.



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



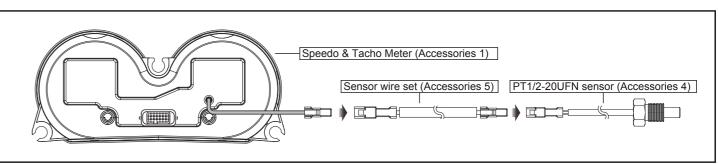
will use the existing white Volts mounting cup and the new Fuel Level gauge will use the existing black Fuel mounting cup. Place the new VOLTS and OIL TEMP gauge in the appropriate housings and secure the bezel in place by lining up the tabs.





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.

2-3 Wiring Installation Instructions



3-1 Overview

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

Time •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 ~ 10.000 mile) ~ -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.)

Indicators

-0:00

*AAAAAAA

Turn signal (Green)

Photometric Sensing

Oil (Red)

 Engine warning (Yellow) Constant speed (Orange / Green)

•Security (Red)

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Tachometer

Indicators Water temperature (Blue)

 Warning Light (Orange/Green) •High beam (Blue)

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

Gear meter

Voltmeter

Engine temperature

(-40 ~ 572 °F)

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

•Display range : -40 ~ 300 °C

Display range : 8 ~ 18 V

•Fog Light (Green)

ABS (Yellow)

Turn signal (Green)

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(ABS)



Fuel Meter

Display range : 0 ~ 100 %

Display unit: 1 %



Oil Temp. Meter

Display range :

Setting range :

Oil Temp. Warning

0 ~ 400 °F (32 ~ 248 °C)

•Display range: 1 °F (1 °C)

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)	Fuel tank volumeAverage fuel consumption	Setting range : OFF / 1.0 ~ 9.9 US gallons Setting range : OFF / L/100km / km/L / MPG (US spec.) / MPG (UK spec.)
Display intervalOverspeed warning setting	<0.5 second Setting range: 30 ~ 299 km/h (19 ~ 199 MPH) when above(including) setting value, warning light will lit.	RANGE / Remaining Mileage RANGE / Remaining Mileage Warning	Display range: 0 ~ 9,999 km (6,249 miles) Display unit: 1 km (mile) Display range: LCD shows "LO RNG" and flashing as warning when RANGE / Remaining
oMax. speed record oInternal and external odometer oTire circumference	Setting unit: 1 km/h (MPH) Display range: 0 ~ 299 km (mile) Display range: 0 ~ 999,999 C Display unit: 1 km (mile) Setting range: 50 ~ 210%	Oldock Oil Temp. Max. Oil Temp. record	Mileage lower than 16 km (10 miles). Setting range: 12 / 24 hour format Display range: 0 ~ 400 °F (32 ~ 248 °C) Display unit: 1 °F (°C) Display range: 0 ~ 400 °F (32 ~ 248 °C)
∘Trip meter A \ B	Setting unit: 1% Display range: 0 ~ 9,999.9 km (mile) Display unit: 0.1 km (mile)	Voltmeter Backlight brightness Backlight color	Display range: 8 ~ 18 V Setting range: 1 / 5 (darkest) ~ 5 / 5 (brightest) Setting range: red / blue
Mileage 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)	Operating voltage Temperature range Specifications Meter Weight - Speede Meter Weight - Oil Tem Temperature range	
•Gear meter	Display range: off/N/P/R/1~6	Meter Weight -Fuel Leg	vel 81 grams
Tachometer	Display range: 0 ~ 9,990 RPM Display unit: 10 RPM	•Indicatiors	Turn signal (Green)
∘RPM shift light	Display range: 2,000 ~ 8,000 RPM Warning lights on when exceed setting value (including). Setting unit: 100 RPM		Oil (Red) Engine warning (Yellow) Constant speed (Orange / Green) Security (Red)
oMax. rotating speed	Display range: 0 ~ 8,000 RPM Display unit : 100 RPM		Water temperature (Blue) ♣ Warning Light (Orange/Green) ☆
•Engine temperature •Fuel meter •Fuel warning setting	Setting range: -40 ~ 300 °C (-40 ~ 572 °F) Setting range: HD Std / Cust Setting range: 1. HD Standard - LCD flashing as warning when		High beam (Blue) Fog Light (Green) ABS (Yellow) Turn signal (Green) □
	Fuel level resistance greater than 211Ω, and will turn off when resistance smaller than 187Ω. 2. Customize - LCD flashing as warning when		- Lain Signal (C.555.1)

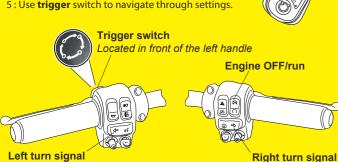
NOTE Design and specification may change without further notice.

Fuel level lower than 20%, and will turn off when fuel level higher than 30%.

Ignition key

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.









- 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.



• 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

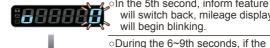
• Hold the button for 10 seconds to clear the mileage maintenance recordings.



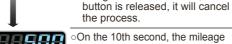
oIn the 0 second, start holding the button.



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



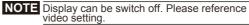
In the 5th second, inform feature will switch back, mileage display will begin blinking.



the process. On the 10th second, the mileage



maintenance record is cleared.





- •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



•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.

4 Information for setting screen and how to do setting

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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