



Instructions - Speedometer



Thank you for purchasing Koso's Harley Davidson Speedometer. Before operating this unit, please read the instructions thoroughly and retain them for future reference.

∧ Notice

- 1. This product only functions with DC12V.

- 2.Any damages caused by faulty installation shall be imputed to the users.

 3.To avoid a short circuit from occuring, do not pull on or modify the wires during installation.

 5.Dissasembling the unit will void any warranty. Maintenance and repairs should be executed by our professionals only.

SYMBOL DESCRIPTION:

↑ Some procedures must be followed in order to avoid faulty installation.

AWARNING! Some procedures must be followed to avoid damages from occuring to yourself and to others. A CAUTION! Some procedures must be followed to avoid damages from occuring to the vehicle

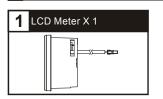


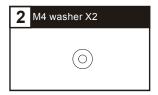


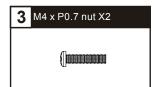




1 Accessories

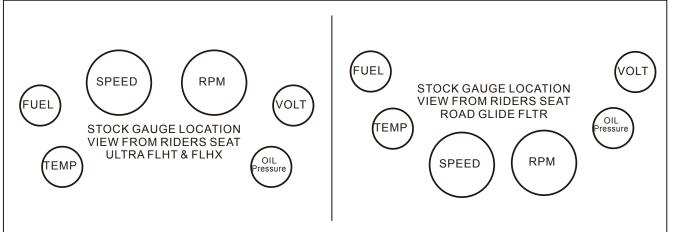






Please contact your local distributor if the items received are not the same as the items listed above

2-1 Gauge location



Gauge positioning and identication for 2004-2013 Harley-Davidson FLHT / FLHX / FLTR.

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.



5. Remove the mounting hardware.



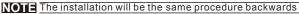
3.Disconnect the headlight connector.



- 6. Remove the meter from the inner fairing
- 7. Replace the meter with the new KOSO version.



4. Disconnect the wiring from the Speedometer, tachometer, ambient temp. meter, volt meter, fuel meter, and oil pressure meter.



4-4 Backlight setting



Hold the button for 3 seconds to enter the Backlight settings screen.



EX. To change the setting to rEd (Red). Press the button to choose the setting

NOTE Default:bLUE (Blue)

Now the default is flashing

NOTE Setting range:bLUE (Blue) / rED (Red)



EX. Now the setting is changed from bLUE (Blue) to rEd (Red). Hold the button for 3 seconds to enter the Backlight settings.



EX. You want to set the backlight at 3-5

(60%). Press the button to choose the setting number

NOTE Default:5-5

Now the default is flashing

NOTE Setting range:1-5(Darkest)~5-5 (Brightest),5 different levels available. Setting unit:20% per level. The backlight brightness will change immediately after you set the value.

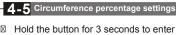


EX:The backlight setting is changed from 5-5 (100%) to 3-5 (60%). Hold the button for 3 seconds to go back to the Backlight clock settings



Backlight clock settings screen, Press the button once to enter the circumference percentage settings screen.

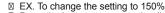




the circumference percentage settings







Press the button to move to the digit you want to set.

NOTE Default:50

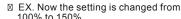
Now the default is flashing

NOTE Setting range: 50~210 %









100% to 150%. Hold the button for 3 seconds to go back to the circumference percentage settings screen.







settings screen, Press the button once to enter in the Odometer settings screen.



4-6 Odometer display

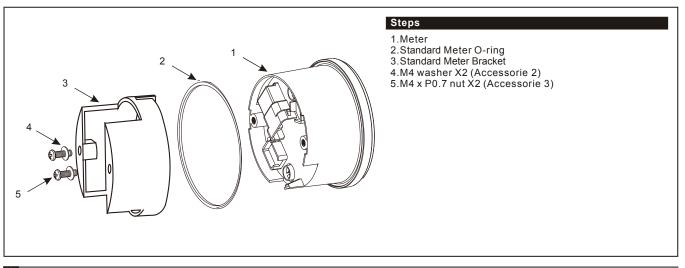
 $\ensuremath{\boxtimes}$ Odometer display screen, Press the button once to enter in the external odometer setting screen.



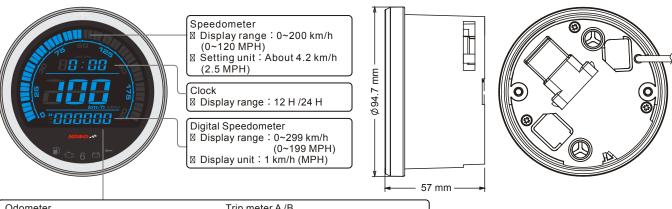








3 Overview



Odometer Trip meter A/B

☑ Display range : 0000.0~9999.9 km (mile)☑ Display range : 0.1 km (mile) ☑ Display range: 000,000~999,999 km (mile) □ Display range : 1 km (mile)

3-1 Settings Instructions

□ Digital Speedometer	Display range : 0~299 km/h (0~199 MPH)	☑ Effective voltage	DC 12 V
	Display unit: 1 km/h (MPH)	Effective temperature range	-10~60 °C
Speedometer	Display range: 0~200 km/h (0~120 MPH)		JIS D 0203
	Setting unit: About 4.2 km/h (2.5 MPH)	Meter size	D94.7 X 55.8 mm
	Display range: 000,000~999,999 km (mile)		
	Display range: 1 km (mile)		Fuel light (Yellow)
	Display range: 0000.0~9999.9 km (mile)		Engine light (Yellow)
	Display range: 0.1 km (mile)		Gear light (Green)
⊠ Clock	Display range: 12 H /24 H		Volt light (Red)
	Accuracy + / -4 seconds / Day		Anti-Theft light (Red)
⊠ Fuel	Display range:Fu-04 / Fu-08		
	Hd-04 / Hd-08		
	Setting range:Blue / Red		

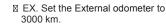
NOTE Design and specications are subject to change without notice!

NOTE Please be advised this meter was programmed according original factory parameters. If the vehicle has been modified or customized and the parameters have been change, then the meter display might not be accurate

4-7 External odometer setting

Mathematical Hold the button for 3 seconds to enter the External odometer settings screen.





Press the Select button to move to the digit you want to set.

NOTE Default:000,000km(mile)

Now the default is flashing

NOTE Display range:000,000~999,999 km (mile)



Press the button to choose the setting number.





- EX. The External odometer setting has been changed from 0 km to 3,000 km.
- Hold the button for 3 seconds to go back to the External odometer display setting screen.



- External odometer display setting screen.
- Media Hold the button for 3 seconds to go back to the External odometer display setting screen.





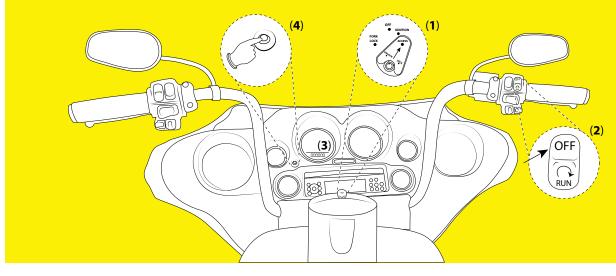
☑ The main screen.

5 Troubleshooting

The following situation does not indicate malfunction of the meter. Please check the following points before taking it in for repairs

Trouble	Check item
The meter doesn't work	☑ The power doesn't supply to the meter.
when the power is on.	Please make sure the wires are connected. Make sure the wires and fuse are not broken.
	Make sure the battery is not broken or the battery is too old to supply enough power DC 12V to make the meter work.

- * To enter the gauge settings mode, you must follow the steps below:
- A: The key must be switched to ON/ACCESSORIES (1).
- B: The Engine OFF/Run must be OFF (2).
- C: The speedometer must be displaying ODOMETER (3).
- D: Press and hold the Trip/Reset button down for 3 seconds to enter the settings (4).
- E: Use the Trip/Reset button to navigate through the settings (4).





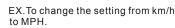
In the main screen, hold the button for 3 seconds to enter in the settings screen.





Hold the button for 3 seconds to enter in the Speed unit settings screen.





Press the Adjust button to change the setting.



Now the default is flashing

NOTE Setting range: km/h or MPH.

NOTE The odometer & trip meter will change together with the speed unit.



EX. The Speed unit setting is changed from km/h to MPH. Hold the button for 3 seconds to go back to the Speed unit settings screen





In Speed unit settings screen, Press the button once to enter the Clock settings screen.



4-2 Clock settings



Hold the button for 3 seconds to enter the Clock setting screen.







EX. To change the setting to 24 H Press the Adjust button to choose the setting number.

NOTE Default:12 H

Now the default is flashing

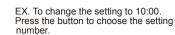
NOTE Setting range: 12 H / 24 H



EX. The Clock (H) setting is changed from 12 H to 24 H.

Hold the button for 3 seconds to enter in the Clock settings screen.





NOTE Default:0 H.

Now the default is flashing

NOTE Setting range: 0~23 H



EX. Now the setting is changed from 0:00 to 10:00.

Hold the button for 3 seconds to enter the minute setting.



EX. To change the settings. Press the button to move to the digit you want to set.

NOTE Default:0 minutes

Now the default is flashing

NOTE Setting range: 00~59 minutes.



Press the button to choose the setting number.







EX. Now the setting is changed from

Hold the button for 3 seconds to go back to the Clock settings screen.

10:00 to 10:05.



Clock setting screen, Press the button once to enter the fuel type settings screen.



4-3 Fuel type setting

Hold the button for 3 seconds to enter the Fuel type setting screen.





EX. To change the setting from Hd-08 to Hd-04.

Press the Adjust button to change the setting.

NOTE Default:Hd-08

Now the default is flashing

NOTE

Fu-04 (2004~2007 Model+KOSO Fuel Level Gauge) Fu-08 (2008~2013 Model+KOSO Fuel Level Gauge) Hd-04 (2004~2007 Model+ Stock Fuel Level Gauge) Hd-08 (2008~2013 Model+ Stock Fuel Level Gauge)



EX. The Fuel type setting is changed from Hd-08 to Hd-04. Hold the button for 3 seconds to go back to the Fuel type setting screen.



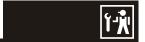


Fuel type setting screen, Press the button once to enter the Clock setting screen.





Instructions - Tachometer



Thank you for purchasing Koso's Harley Davidson Tachometer. Before operating this unit, please read the instructions thoroughly and retain them for future reference.

∧ Notice

- This meter only functions with DC 12V.
- Any damage 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 installing.
- 5. Dissasembling this unit will void your warranty. Maintenance should be executed by our professionals.

SYMBOL MEANING:

<u>Nome procedures must be followed in order to avoid faulty installation.</u>

AWARNING! Some procedures must be followed to avoid damages from occuring to yourself and others.

A CAUTION! Some procedures must be followed to avoid damages from occuring to the vehicle.

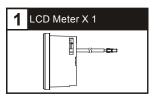


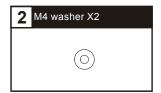


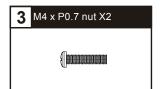




1 Accessories

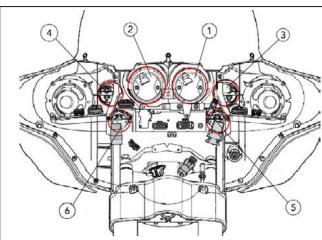






Please contact your local distributor if the items received are not the same as the items listed above.

2-1 Gauge location





- ① HD-02S 4" Speedometer
- ② HD-02R 4" Tachometer
- ③ HD-02T 2" Ambient Temp. Meter ④ HD-02V 2" Voltage Meter
- ⑤ HD-02F 2" Fuel Meter
- 6 HD-02P 2" Oil Pressure Meter

Gauge positioning and identication for 2004-2013 Harley-Davidson FLHT / FLHX / FLTR. For any other models, refer to the service manual.

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.



5. Remove the mounting hardware.



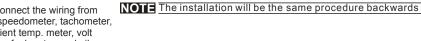
3.Disconnect the headlight connector.

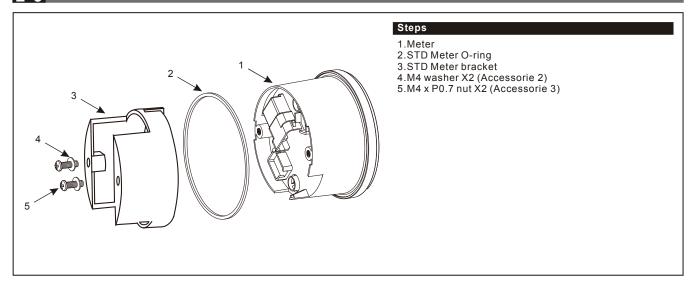


- 6. Remove the meter from the inner fairing.
- 7. Replace the meter with the new KOSO version.

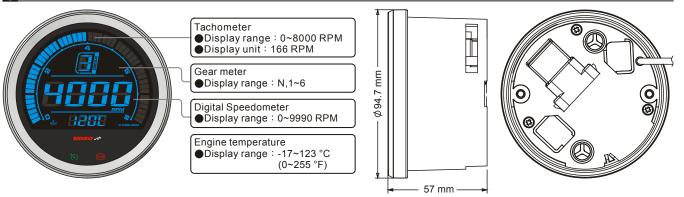


4. Disconnect the wiring from the speedometer, tachometer, ambient temp. meter, volt meter, fuel meter, and oil pressure meter.









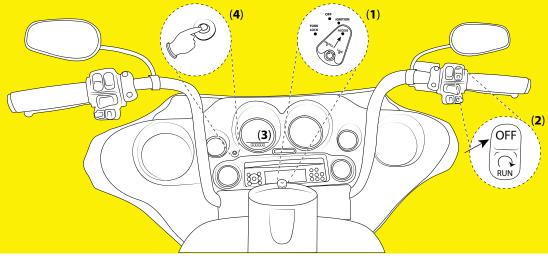
3-1 Settings Instructions

●Digital Tachometer	Display range: 0~9990 RPM	●Effective temperature range	-10~60 °C
○Tachometer	Display range: 0~8000 RPM	Meter standard	JIS D 0203
	Display unit: 166 RPM	●Meter size	D97.4 X 57 mm
○Engine temperature	Display range: -17~123 °C (0~255 °F)	Meter weight	
○Gear meter	Display range: N,1~6	●Indicator light color	Cruise control light (Orange / Green)
●Effective voltage	DC 12 V		ABS Light (Yellow)

NOTE Design and specications are subject to change without notice!

Please be advised this meter was programmed according original factory parameters. If the vehicle has been modified or customized and the parameters have been change, then the meter display might not be accurate

- * To enter the gauge settings mode, you must follow the steps below:
- A: The key must be switched to ON/ACCESSORIES (1).
- B: The Engine OFF/Run must be OFF (2).
- C: The speedometer must be displaying ODOMETER (3).
- D: Press and hold the Trip/Reset button down for 3 seconds to enter the settings (4).
- E: Use the Trip/Reset button to navigate through the settings (4).





- ☑ In the main screen, hold the button for 3 seconds to enter in the settings screen.
- To set the settings for the tachometer, install it in the speedometer housing use the speedo conection. After the setting is done, remove the tachometer & install it in the original tacho housing





Hold the button for 3 seconds to enter the Engine temperature setting screen.



- ☑ EX.To change the setting from 105 °F to 37 °C.
- ☑ Hold the button for 3 seconds to go back to the Engine temperature setting screen.





back to the Engine temperature display setting screen.





- ☒ EX. To change the setting to 37 °C☒ Press the Adjust button to change the setting.

NOTE Default:°F

Now the default is flashing

NOTE Setting range: F or C





☑ The main screen.

5 Troubleshooting

The following situation does not indicate malfunction of the meter. Please check the following points, before taking it in for repairs.

· ·	
Trouble	Check item
The meter doesn't work	☐ The power doesn't supply to the meter.
when the power is on.	☑ Please make sure the wiring is connected. The wiring and fuse are not broken.
	☑ The battery is broken or the battery is too old to supply enough power DC 12V to make the meter work.
	☑ Please make sure the wiring is connected. The wiring and fuse are not broken.

Instructions - Oil pressure meter



Thank you for purchasing KOSO's Harley Davidson Oil Pressure Meter. Before operating this unit, please read the instructions thoroughly and retain them for future reference.

⚠ Notice

- 1. This meter only function 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. Dissasselbling this unit will void your warranty. Maintenance and repairs should be executed by Professionals only.

SYMBOL MEANING:

<u>∧ Some procedures must be followed in order to avoid faulty installation.</u>

AWARNING! Some procedures must be followed to avoid damages from occuring to yourself and others.

A CAUTION! Some procedures must be followed to avoid damages from occuring to the vehicle.

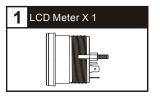








1 Accessories

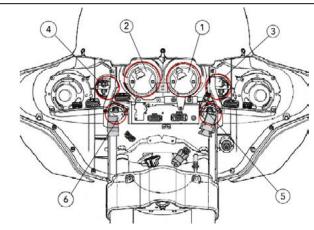






Please contact your local distributor if the items received are not the same as the items listed above

2-1 Gauge location





- ① HD-02S 4" Speedometer ③ HD-02T 2" Ambient Temp. Meter ④ HD-02V 2" Voltage Meter
- 2 HD-02R 4" Tachometer
- 6 HD-02P 2" Oil Pressure Meter
- ⑤ HD-02F 2" Fuel Meter

NOTE Gauge positioning and identication for 2004-2013 Harley-Davidson FLHT / FLHX / FLTR. For any other models, refer to the

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.



5. Remove the mounting hardware.



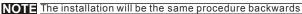
3.Disconnect the headlight connector.

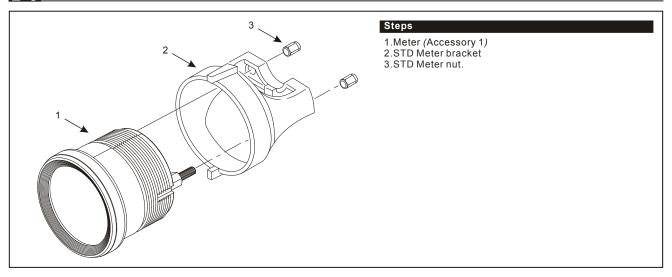


- 6. Remove the meter from the inner fairing.
- 7. Replace the meter with the new KOSO version.

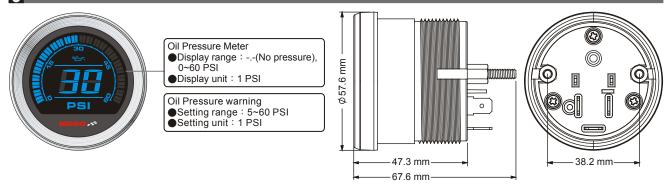


Disconnect the wiring from the Speedometer, tachometer, ambient temp. meter, volt meter, fuel meter, and oil pressure meter.









3-1 Function, setting instruction

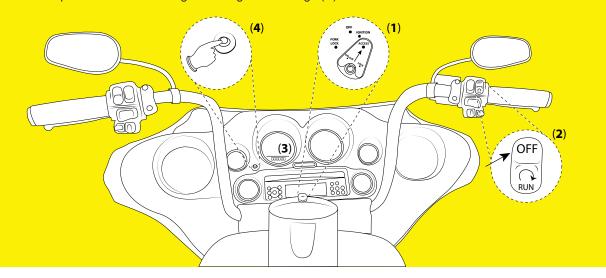
Oil Pressure Meter	Display range :(No pressure),0~60 PSI	●Effective temperature range	-10~60 °C
	Display unit: 1 PSI	Meter standard	JIS D 0203
Oil Pressure warning	Setting range: 5~60 PSI	●Meter size	D57.5 X 47.3 mm
	Setting unit: 1 PSI	■Meter weight	86g
●Effective voltage	DC 12 V		

NOTE Design and specications are subject to change without notice!

NOTE Please be advised this meter was programmed according original factory parameters. If the vehicle has been modified or customized and the parameters have been change, then the meter display might not be accurate

4 Entering in the settings screen

- * To enter the gauge settings mode, you must follow the steps below:
- A: The key must be switched to ON/ACCESSORIES (1).
- B: The Engine OFF/Run must be OFF (2).
- C: The speedometer must be displaying ODOMETER (3).
- **D**: Press and hold the Trip/Reset button down for 3 seconds to enter the settings (4).
- **E**: Use the Trip/Reset button to navigate through the settings (4).





☑ In the main screen, hold the button for 3 seconds to enter into the settings screen.



- EX. You want to set the Oil Pressure warning at 10 PSI to 15 PSI.
- Press and hold the button for 3 seconds to enter back into the main screen.





4-1 Oil Pressure warning settings screen Press the button to change the settings





☑ EX. The Oil Pressure warning is 15 PSI.☑ Press and hold the button for 3 seconds to move to the digit you want to set.

Now the default is flashing

NOTE Default: 10 PSI

NOTE Setting range: 5~60 PS





☑ Back to the main screen.

5 Troubleshooting

The following situations do not indicate malfunction of the meter. Please check the following points, before taking it in for repairs.

Checkitem The meter doesn't work If there is no power being supplied to the meter. when the power is on. Make sure the wires are connected and that the wiring and fuse are not broken. ☑ The battery is broken or the battery is too old to supply enough power (DC 12V) to make the meter work.

Instructions - Volt meter



Thank you for purchasing KOSO's Harley Davidson Volt meter. Before operating this unit, please read the instructions thoroughly and retain them for future reference.

⚠ Notice

- 1. This meter only function 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 and repairs should be executed by professionals only.

SYMBOL MEANING:

Nome procedures must be followed in order to avoid faulty installation.

AWARNING! Some procedures must be followed to avoid damages from occuring to yourself and others.

A CAUTION! Some procedures must be followed to avoid damages from occuring to the vehicle.



FLASH

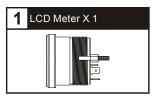


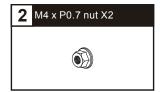
LIGHT ON





1 Accessories

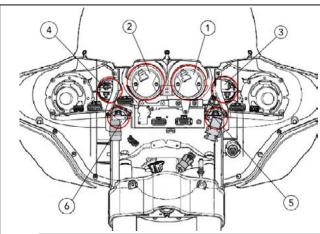






Please contact your local distributor if the items received are not the same as the items listed above.

2-1 Gauge location





- ① HD-02S 4" Speedometer
 - 2 HD-02R 4" Tachometer
- 3 HD-02T 2" Ambient Temp. Meter 4 HD-02V 2" Voltage Meter
- ⑤ HD-02F 2" Fuel Meter
- 6 HD-02P 2" Oil Pressure Meter

NOTE Gauge positioning and identication for 2004-2013 Harley-Davidson FLHT / FLHX / FLTR. For any other models, refer to the

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.



5. Remove the mounting hardware.



3.Disconnect the headlight connector.

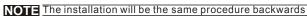


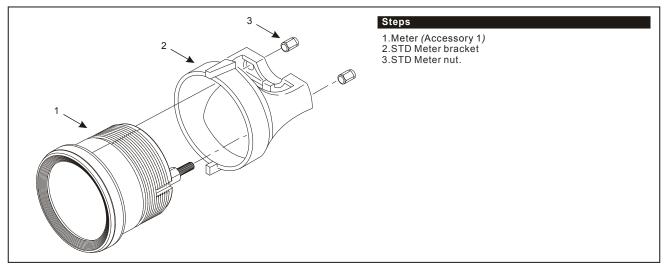
- 6. Remove the meter from the inner fairing.
- 7. Replace the meter with the new KOSO version.



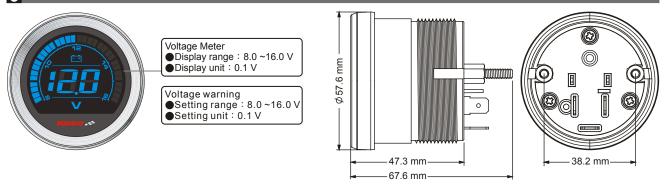
4. Disconnect the wiring from the speedometer, tachometer, ambient temp. meter, volt meter, fuel meter, and oil pressure meter.







3 Overview



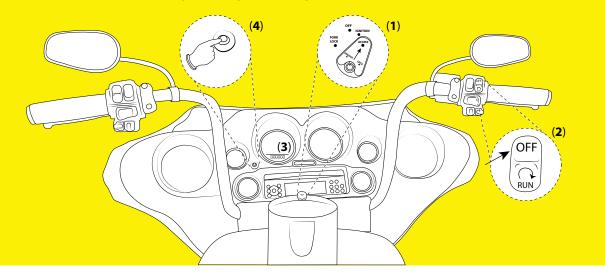
3-1 Settings instructions

●Voltage Meter	Display range: 8.0 ~16.0 V	●Effective temperature range	-10~60 °C
	Display unit: 0.1 V	Meter standard	JIS D 0203
○Voltage warning	Setting range: 8.0 ~16.0 V	●Meter size	D57.5 X 47.3 mm
	Setting unit: 0.1 V	●Meter weight	86 g
●Effective voltage	DC 12 V		

NOTE Design and specications are subject to change without notice!

NOTE Please be advised this meter was programmed according original factory parameters. If the vehicle has been modified or customized and the parameters have been change, then the meter display might not be accurate

- * To enter the gauge settings mode, you must follow the steps below:
- A: The key must be switched to ON/ACCESSORIES (1).
- B: The Engine OFF/Run must be OFF (2).
- C: The speedometer must be displaying ODOMETER (3).
- D: Press and hold the Trip/Reset button down for 3 seconds to enter the settings (4).
- **E**: Use the Trip/Reset button to navigate through the settings (4).





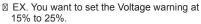
☑ In the main screen, hold the button for 3 seconds to enter in the settings screen.





Press the button to change the settings



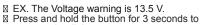


Press and hold the button for 3 seconds to enter back into the main screen.









move to the digit you want to set.

Now the default is flashing

NOTE Default:11.5 V

NOTE Setting range: 8.0 ~16.0 V





5 Troubleshooting

The following situations do not indicate malfunction of the meter. Please check the following points, before taking it in for repairs.

Trouble	Check item
The meter doesn't work	☑ If there is no power being supplied to the meter.
when the power is on.	Make sure the wires are connected and that the wires and fuse are not broken.
	☐ The battery is broken or the battery is too old to supply enough power (DC 12V) to make the meter work.

Instructions - Fuel meter



Thank you for purchasing KOSO's Harley Davidson Fuel meter. Before operating this unit, please read the instructions thoroughly and retain them for future reference.

⚠ Notice

- This meter only function 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 and repairs should be executed by our professionals only.

SYMBOL MEANING:

∧ Some procedures must be followed in order to avoid faulty installation.

AWARNING: Some procedures must be followed to avoid damages from occuring to yourself and others.

A CAUTION! Some procedures must be followed to avoid damages from occuring to the vehicle.



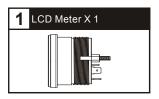
FLASH

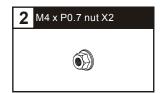






1 Accessories

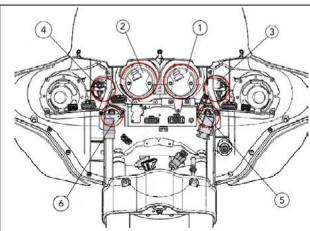






Please contact your local distributor if the items received are not the same as the items listed above

2-1 Gauge location





- ① HD-02S 4" Speedometer
- 2 HD-02R 4" Tachometer ③ HD-02T 2" Ambient Temp. Meter ④ HD-02V 2" Voltage Meter
- ⑤ HD-02F 2" Fuel Meter
- 6 HD-02P 2" Oil Pressure Meter
- NOTE Gauge positioning and identication for 2004-2013 Harley-Davidson FLHT / FLHX / FLTR. For any other models, refer to the

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.



5. Remove the mounting hardware.



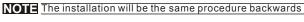
3.Disconnect the headlight connector.

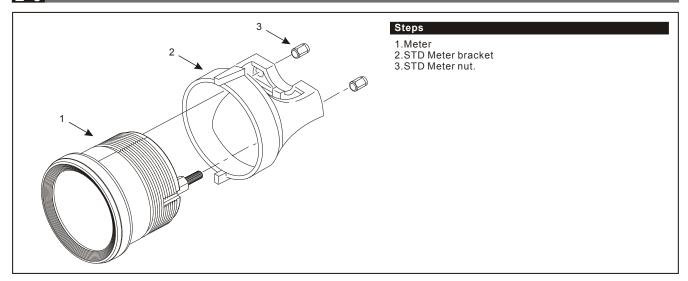


- 6. Remove the meter from the inner fairing.
- 7. Replace the meter with the new KOSO version.

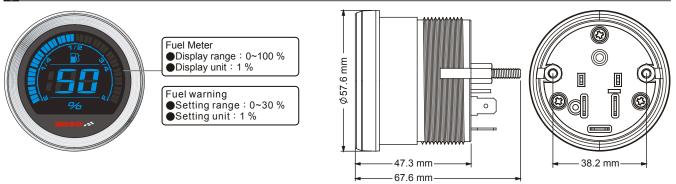


4. Disconnect the wiring from the speedometer, tachometer, ambient temp. meter, volt meter, fuel meter, and oil pressure meter.





3 Overiew



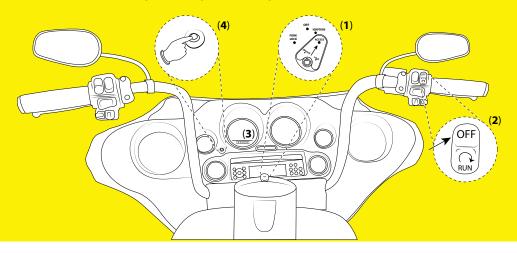
3-1 Function instructions

●Fuel Meter	Display range: 0~100 %	●Backlight color	Setting range:Blue / Red
	Display unit: 1 %	●Effective voltage	DC 12 V
○Fuel warning	Setting range : 0~30 %	●Effective temperature range	-10~60 °C
	Setting unit: 1 %	Meter standard	JIS D 0203
●Fuel type	Setting range:	●Meter size	D57.5 X 47.3 mm
	SET 04 IF vehicle year is 2004~2007	■Meter weight	Around 86 g
	SET 08 IF vehicle year is 2008~2013		

NOTE Design and specications are subject to change without notice!

Please be advised this meter was programmed according original factory parameters. If the vehicle has been modified or customized and the parameters have been change, then the meter display might not be accurate

- * To enter the gauge settings mode, you must follow the steps below:
- A: The key must be switched to ON/ACCESSORIES (1).
- B: The Engine OFF/Run must be OFF (2).
- C: The speedometer must be displaying ODOMETER (3).
- **D**: Press and hold the Trip/Reset button down for 3 seconds to enter the settings (4).
- **E**: Use the Trip/Reset button to navigate through the settings (4).





☑ In main screen, Press hold pressing the button for 3 seconds to enter the setting screen.



4-1 Fuel warning setting screen

Press the button to change the setting.





- Press hold pressing the button for 3 seconds to move to the digit you want to set.

Now the default is flashing

NOTE Default:15%

NOTE Setting range: 15%





- ☑ EX. You want to set the Fuel warning at 15%
- Press hold pressing the button for 3 seconds to enter the fuel type setting screen.



4-2 Fuel type setting screen

Press the button to change the setting.





Press hold pressing the button for 3 seconds to enter the main screen.

Now the default is flashing

NOTE Default:08

NOTE Setting range:

04-04~07 year Vehicles 08-08~13 year Vehicles





5 Troubleshooting

The following situation do not indicate malfunction of the meter. Please check the following before taking it in for repair.

Trouble	Check item
The meter doesn't work	☐ The power doesn't supply to the meter.
when the power is on.	☑ Please make sure the wiring is connected. The wiring and fuse are not broken.
·	☐ The battery is broken or the battery is too old to supply enough power DC 12V to make the meter work.

Instructions - Ambient temp. meter



Thank you for purchasing KOSO's Harley Davidson Ambiant Temperature meter. Before operating this unit, please read the instructions thoroughly and retain them for future reference.

⚠ Notice

- 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 and repairs should be executed by Professionals only.

SYMBOL MEANING:

<u> ∧ Some procedures must be followed in order to avoid faulty installation.</u>

AWARNINGI Some procedures must be followed to avoid damages from occuring to yourself and others. A CAUTION! Some procedures must be followed to avoid damages from occuring to the vehicle.





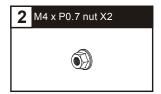




BUTTON 3 SECONDS

1 Accessories

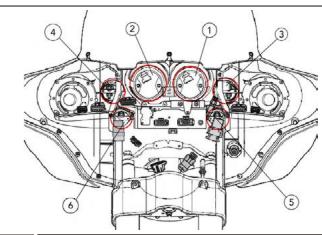






Please contact your local distributor if the items received are not the same as the items listed above.

2-1 Gauge location





- ① HD-02S 4" Speedometer
- ⑤ HD-02F 2" Fuel Meter
- ② HD-02R 4" Tachometer
- 3 HD-02T 2" Ambient Temp. Meter 4 HD-02V 2" Voltage Meter
 - 6 HD-02P 2" Oil Pressure Meter

NOTE Gauge positioning and identication for 2004-2013 Harley-Davidson FLHT / FLHX / FLTR. For any other models, refer to the service manual

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.



5. Remove the mounting hardware.



3.Disconnect the headlight connector.

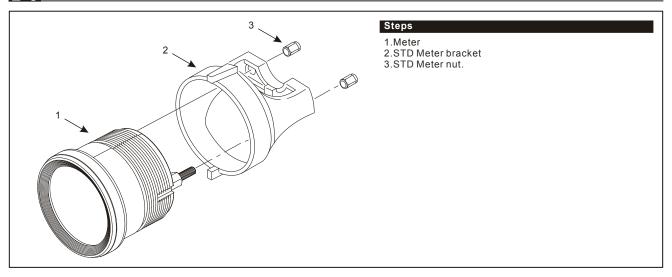


- 6. Remove the meter from the inner fairing.
- 7. Replace the meter with the new KOSO version.

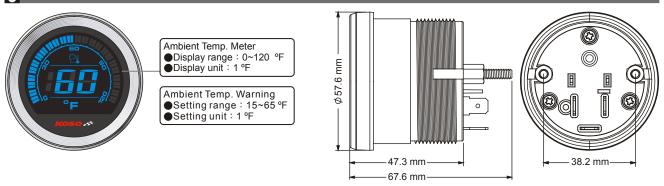


4. Disconnect the wiring from the speedometer, tachometer, ambient temp.meter, volt meter, fuel meter, and oil pressure meter.

NOTE The installation will be the same procedure backwards.



3 Overview



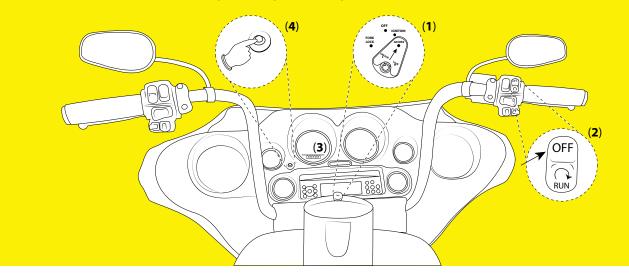
3-1 Function, setting instruction

●Ambient Temp. Meter	Display range: 0~120 °F	●Effective temperature range	-10~60 °C
	Display unit: 1 °F	Meter standard	JIS D 0203
OAmbient Temp. warning	Setting range: 15~65 °F	●Meter size	D57.5 X 47.3 mm
	Setting unit: 1 °F	Meter weight	86g
●Effective voltage	DC 12 V		

NOTE Design and specications are subject to change without notice!

NOTE Please be advised this meter was programmed according original factory parameters. If the vehicle has been modified or customized and the parameters have been change, then the meter display might not be accurate

- * To enter the gauge settings mode, you must follow the steps below :
- A: The key must be switched to ON/ACCESSORIES (1).
- B: The Engine OFF/Run must be OFF (2).
- C: The speedometer must be displaying ODOMETER (3).
- D: Press and hold the Trip/Reset button down for 3 seconds to enter the settings (4).
- **E**: Use the Trip/Reset button to navigate through the settings (4).





☑ In the main screen, hold the button for 3 seconds to enter in the settings screen.



4-1 Ambient Temp. warning settings screen

☑ Press the button to change the settings





- ☑ EX. The Ambient Temp. Warning is 15 °F
 ☑ Press and hold the button for 3 seconds to move to the digit you want to set.
 - Now the default is flashing

NOTE Default:3 °F

NOTE Setting range: 10~20 °F





- ☑ EX. You want to set the Ambient Temp.Warning at 10 ☑ to 15☑.
- Press and hold the button for 3 seconds to enter back into the main screen.





5 Troubleshooting

The following situations do not indicate malfunction of the meter. Please check the following points, before taking it in for repairs.

Trouble	Checkitem
The meter doesn't work	☑ If there is no power being supplied to the meter.
when the power is on.	Make sure the wires are connected and that the wires and fuse are not broken.
	☐ The battery is broken or the battery is too old to supply enough power (DC 12V) to make the meter work.