

INSTALLATION

RPM wire X 1

8 M5 washer X3

A2

Coil Spark plug wire

Spark plug cap

В

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THANKS FOR PURCHASING OUR RX-N2S DATA LOGGER METER. BEFORE OPERATING THIS UNIT, PLEASE READ CAREFULLY THESE INSTRUCTION SHEETS AND RETAIN THEM FOR FUTURE REFERENCE

⚠ Notice

- 1-This meter has been designed to work on 12 volts DC applications only. Make sure the power do not exceed 18 volts DC otherwise this might damage the
- 2-For proper installation, please follow the steps describes in these instruction sheets. Any damages caused by wrong installation shall be imputed to the users. 3-Do not disassemble or change any parts.
- 4-To avoid short circuit, do not pull the wires out of the terminals.
 5-The interior examination or maintenance should be executed by our professionals only. Opening the instrument will void the warranty.
- 6-While riding the vehicle, do not attend to change the settings of the instrument to avoid injuries to yourself or others.

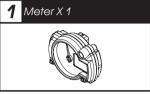
MARK MEANING:

NOTE Some procedures must be followed to avoid damage to the instrument.

▲ WARNING! Some procedures must be followed to avoid injuries to yourself and others.

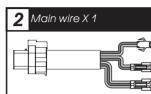
A CAUTION! Some procedures must be followed to avoid damages to the vehicle.

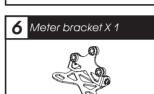
1-1 Accessories

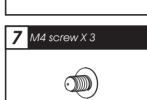






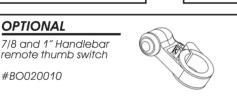






3 Power wire X1





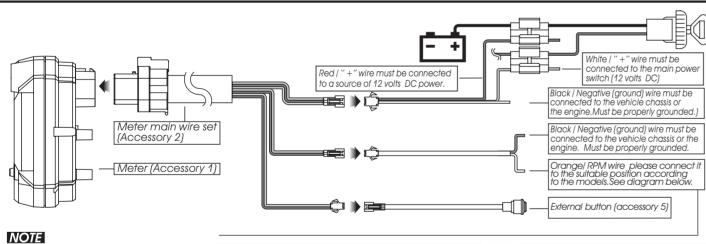
NOTE Contact your local distributor if the items listed above are not the same as the one received.

remote thumb switch

OPTIONAL

#BO020010

2-1 Wiring installation instructions



A3

LIGHTING

Ignition coil positive

J.

pick up

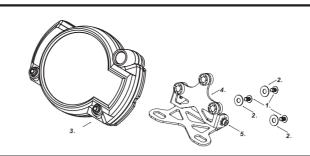
RPM wire set-Type A

- ⚠ A-Wrap the RPM wire at least 5 times
- around the spark plug wire. **A1** Use tape to fix the RPM wire onto the spark plua wire.
- A2-Use tape to fix RPM wire on ignition coil. RPM wire set-Type A A3- Use tape to fix the RPM wire on
- the ignition coil positive wire. On some models, use the negative wire
- **B**-connect the RPM wire directly on the positive pole of the ignition coil. C-connect the RPM wire to the flywheel
- ignition pulse. **D**-Connect the RPM wire to one of
- the lighting coil wire. **E**- For the models with coil over spark plug, wrap the RPM wire at least 5 times around



to pick up the RPM signal if you encounter any problems getting a stable or accurate reading.

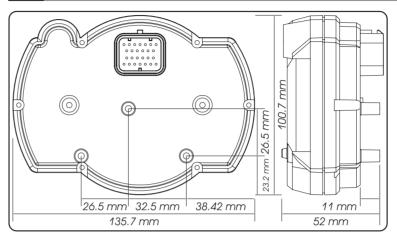
2-2 Mounting instructions



- 1.M4 screw X 3 (Accessory7) 2.M5 washer X 3 (Accessory 8)
- 3.Meter (Accessory 1)
- 4. Bracket (Accessory 6)
- 5.Meter bracket micro-adjustment screw

NOTE Determine the proper view angle of the instrument before tighten the bracket screws (item 5)

3-1 Meter size



3-2 Features

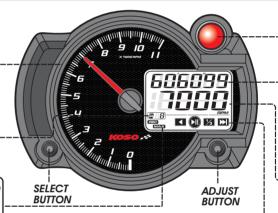
Needle Tachometer ·Display range : 0~11,000 RPM. ·Display unit : 100 RPM.

Record

Maximum number of records: 50 sessions

The meter will automatically stop to record if 50 sessions has been reached. Memory need to be erase in order to record again

The Highest RPM Recorded (MAX RECORD) Range of Recording : 0 - 11,000 RPN



The RPM shift light (11,000 RPM) Setting range : 100~1 Setting unit : 100 RPM.

Duration of Recording

· Max duration for a single session:
99' 59" 99. The meter will automatically stop to record if the maximum duration has been reach.

Total Duration of Recording: ± 6.30 Hours

Digital Tachometer

Display range : 0~11,000 RPM.
Display unit : 10 RPM.

Play mode Speed

1x play/pause · 1/3x play/pause 3x play/pause · 1x rewind/pause

3-3 Functions

Needle Tachometer	Display range : 0~11,000 RPM Display unit : 100 RPM	·Play mode
·Digital Tachometer	Display range : 0~11,000 RPM	· Effective
	Display unit : 10 RPM	• Effective t
·Display internal	< 0.5 second	·Meter star
·Shift light	Setting range: 100~11,000	·Meter size
	Setting unit: 100 RPM	·Meter we
·Max. RPM record	Range of recording: 0~11,000 RPM	NOTE Des
·Records	Number of records : 50 sessions	
·Recording Time	Duration of recording: 99'59"99	
	Total duration of recording: Approx. 6.30 Hours	

	·Play mode	1x play/pause · 1/3x play/pause 3x play/pause · 1x rewind/pause
	·Effective voltage	DC12V
	· Effective temperature range	-10~+60°C
	·Meter standard	JIS D 0203 S2
	·Meter size	135.7 X 100.7 X 52 mm
	·Meter weight	Around 240 g
	NOTE Design and specifications	s are subject to change without notice

4 Warning light and RPM pulse setting function

In The main screen



- In the main screen, press down the **Select & Adjust buttons** at the same time for 3 seconds to enter the setting screen.
- •The meter will go back automatically to the main screen if no setting has been changed after 20 seconds.



Stage A Warning Light (Steddy light)



- Ex: To set the warning point at 6500 RPM in Stage A.
- Press the Adjust button to choose the setting



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



• Press the **Select button** until it switch to the B warning light setting.





- Ex: To set the warning point at 8500 RPM
- Press the **Adjust button** to choose the setting



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



• Press the **Select button** until it switch to the RPM pulse setting.

Warning light A & B display











Stage A warning light is set at 6500 RPM. Stage B warning light is set at 8500 RPM. Warning light come **ON** steddy when RPM reach 6500. Warning Light is flashing when RPM reach 8500.

RPM pulse setting



EX: The pulsation setting need to be changed

In the pulsation setting mode, press the **Adjust button** to switch the value from 1 to 2. The default setting is set at 0.5 (4 strokes / 1 piston)

setting	2 strokes	4 strokes	
<u>value</u>	settings	<u>settings</u>	RPM per sparks
0.5	NA	1 piston	2 RPM per 1 spark
1	1 piston	2 pistons	1 RPM per 1 spark
1.5	NA	3 pistons	2 RPM per 3 sparks
2	2 pistons	4 pistons	1 RPM per 2 sparks
2.5	NA	5 pistons	2 RPM per 5 sparks
3	3 pistons	6 pistons	1 RPM per 3 sparks
4	4 pistons	8 pistons	1 RPM per 4 sparks
5	NA	10 pistons	2 RPM per 10 sparks
6	6 pistons	12 pistons	1 RPM per 6 sparks

Some of the 4 strokes engines with 1 piston are igniting once every 360 degree. To get the proper RPM for such engines, the setting should be the same as a 2 strokes engine with 1 piston.



•EX. The pulse setting is changed from 1 to 2.

Press the **Select button** to enter the main screen.



Back the main screen.

4.1 Adjust button instruction (right side button)

Adjust button

1-In the main screen, press the Adjust button to switch to the record mode or play mode.



2-In the play mode screen, press the **Select button** to view the play mode functions. (At least 1 run need to be recorded in order to be able to view the play mode icons). Than press the Adjust button to switch icon. Press again the Select button to enter the function.



3-In the play mode screen, press 3 seconds the **Adjust button** to go back to the main screen.



4-2 Select button instruction (left side button)

Select button

1- In the main screen, push the **Select button** once to view the max RPM record.



4-3 Maximum RPM recall and reset

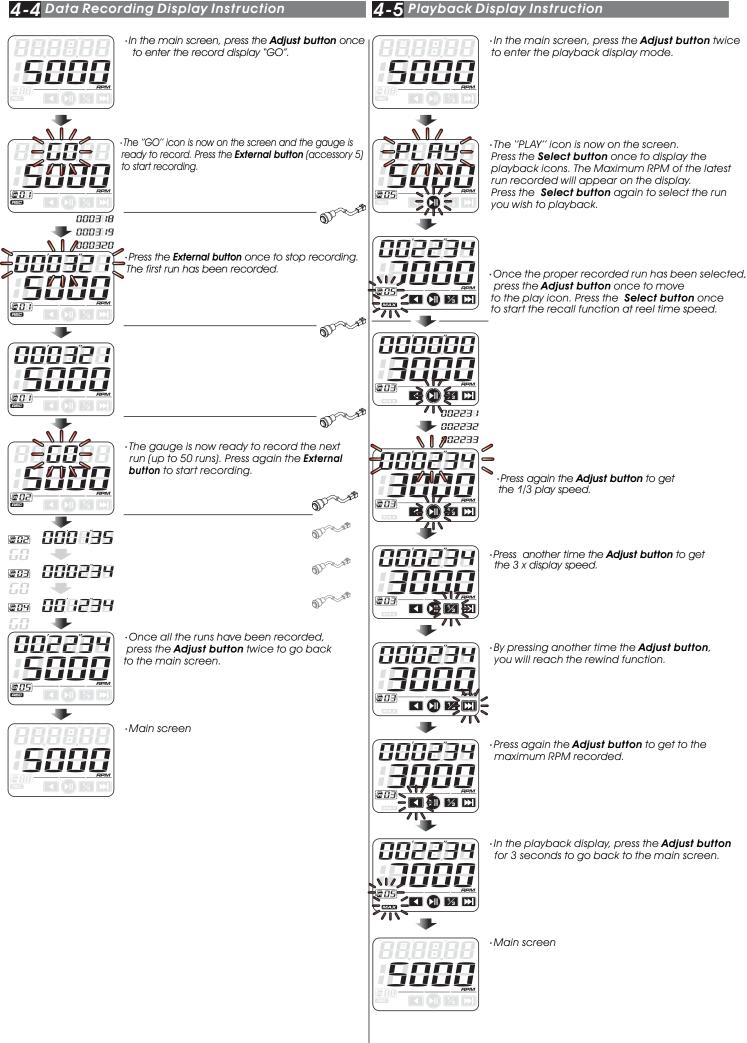


- In the main screen, press the **Select button** to view the maximum RPM recorded.
- Press 3 seconds the **Adjust button** to erase the maximum RPM recorded.



· Press the **Select button** once to go back to the main screen.

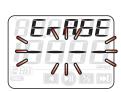




4-6 Recorded Data Erasing Instruction



In the main screen, press the **Adjust button** once to enter in the record mode ("GO")



Erasina the recorded data



·In the record mode ("GO"), press the **External** switch (accessory 5) for 3 seconds to enter the erase setting.



Recorded data erasing completed



1

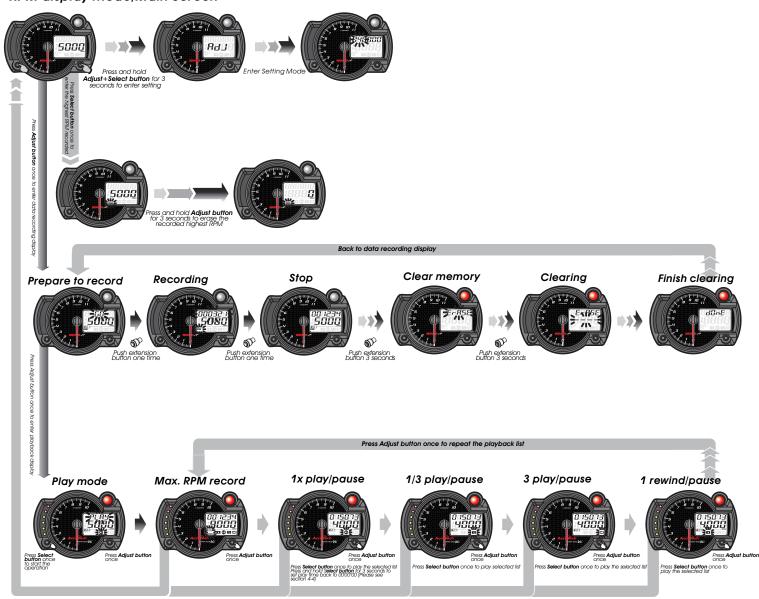
Press again the External switch for 3 seconds to confirm the operation and erase the memory. **IMPORTANT:** erasing the memory will clear <u>all</u> recorded runs.



Return to data recording display

4-7 Operating Instruction

·RPM display mode/Main Screen



5 Trouble shooting

If you encounter operational problem, please check the following steps. If the problem still occur, please contact your Koso dealer

Trouble = The meter shows no or false information.

Cause = The voltage is too low. Make sure the voltage is over 12 volts DC.

Cause = Power wires are not connected properly. Refer to the wiring diagram (2-1)

Trouble = RPM is not accurate or unstable.

Cause = The RPM is not accurate. Make sure the proper setting has been entered in the programmation.

Cause = The RPM is not stable. Try to connect the RPM signal wire in a different location by referring at the wiring diagram (2-1)