S6
INSTRUCTIONS
DIGITAL SPEEDOMETER MK2, UNIVERSAL

1. Introduction

Thank you for purchasing the **STAGE6 DIGITAL SPEEDO-METER MK2.**Before installing and operating the instrument, please read the instructions carefully and retain them for future reference.

1. The instrument requires a 12 V DC supply.

2. To install the instrument, please follow the steps as de-scribed in the manual. For any damage caused by incorrect installation, the user shall be held responsible.

3. To avoid short-circuits, please don't pull the wires during installation. Don't break or modify the wire terminals.

4. Do not disassemble or change any parts other than the ones referred to in this manual.

5. All interior examination or maintenance should be carried out by our professionals.

Explanation of Symbols

⚠ **NOTE**

Information after this symbol will help you understand es-sential steps.

⚠

Follow these instructions accurately to avoid damage.

⚠ **WARNING**

Some instructions must be followed to avoid damage to yourself or others.

⚠ **CAUTION**

Some instructions must be followed to avoid damage to the vehicle.

1.1 Accessories

1 Instrument (1 pc.)

2 Power cable (1 pc.)

3 RPM cable (type A) (1 pc.)

4 RPM cable (type B) (1 pc.)

5 Temperature sensor cable (1 pcs.)

6 Water temperature sensor PT 1/8 (1 pcs.)

7 Digital speed sensor (1 pc.)

8 Magnet D6 x 5L mm (6 pcs.)

9 Speed sensor bracket, type S, M8 (1 pc.)

10 Speed sensor bracket, type S, M10 (1 pc.)

11 Grub screw M5 x 5L (2 pcs.)

12 Hex key 2.5 mm (1 pc.)

13 Hex key 4 mm (1 pc.)

14 Instrument bracket (1 pc.)

15 Washer M5 (2 pcs.)

16 Screw M5 x 15L (2 pcs.)

17 Connecting clip (2 pcs.)
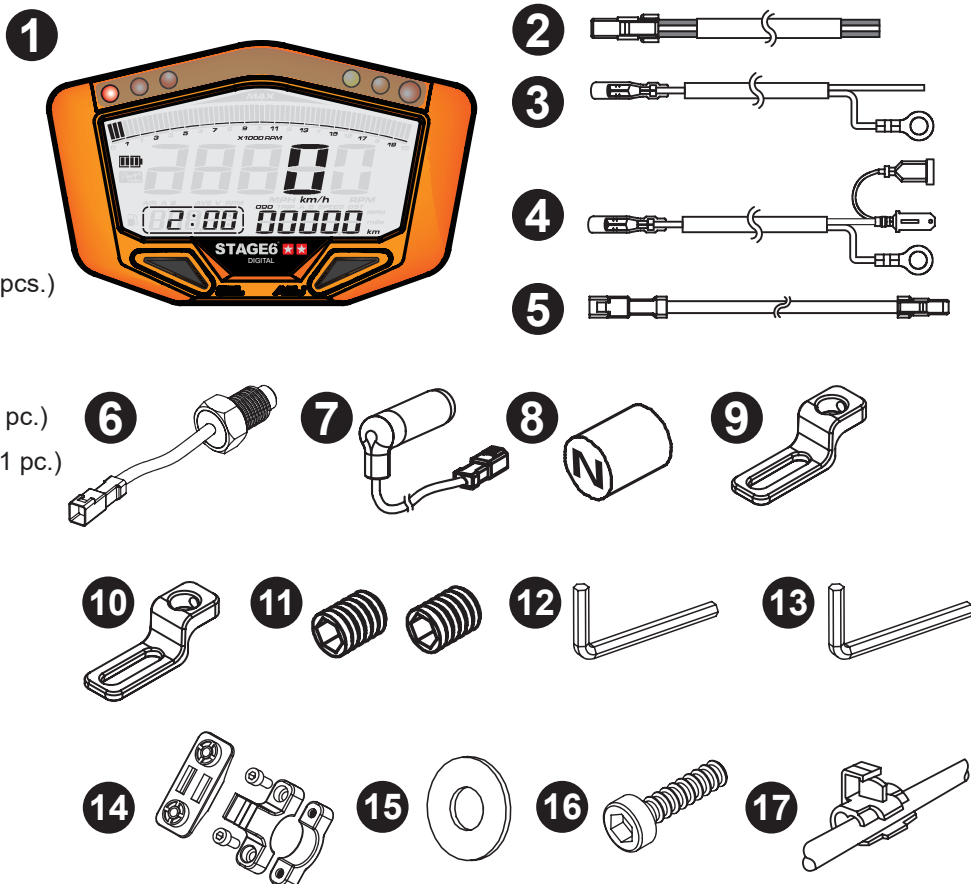
⚠ **NOTE**

Please contact your local distributor if the items you have received are diffe-rent from the ones listed above!

1.2 Optional Accessories

1 Active speed sensor
2 Magnetic screw for brake disc
3 Speed sensor bracket, type L
4 Oil temperature sensor adapter
5 Water temperature sensor adapter
6 Temperature sensor
7 Temperature sensor cable (2 m)
8 Temperature extension wire
9 EGT temperature sensor
10 Stainless clamp(40~64mm)
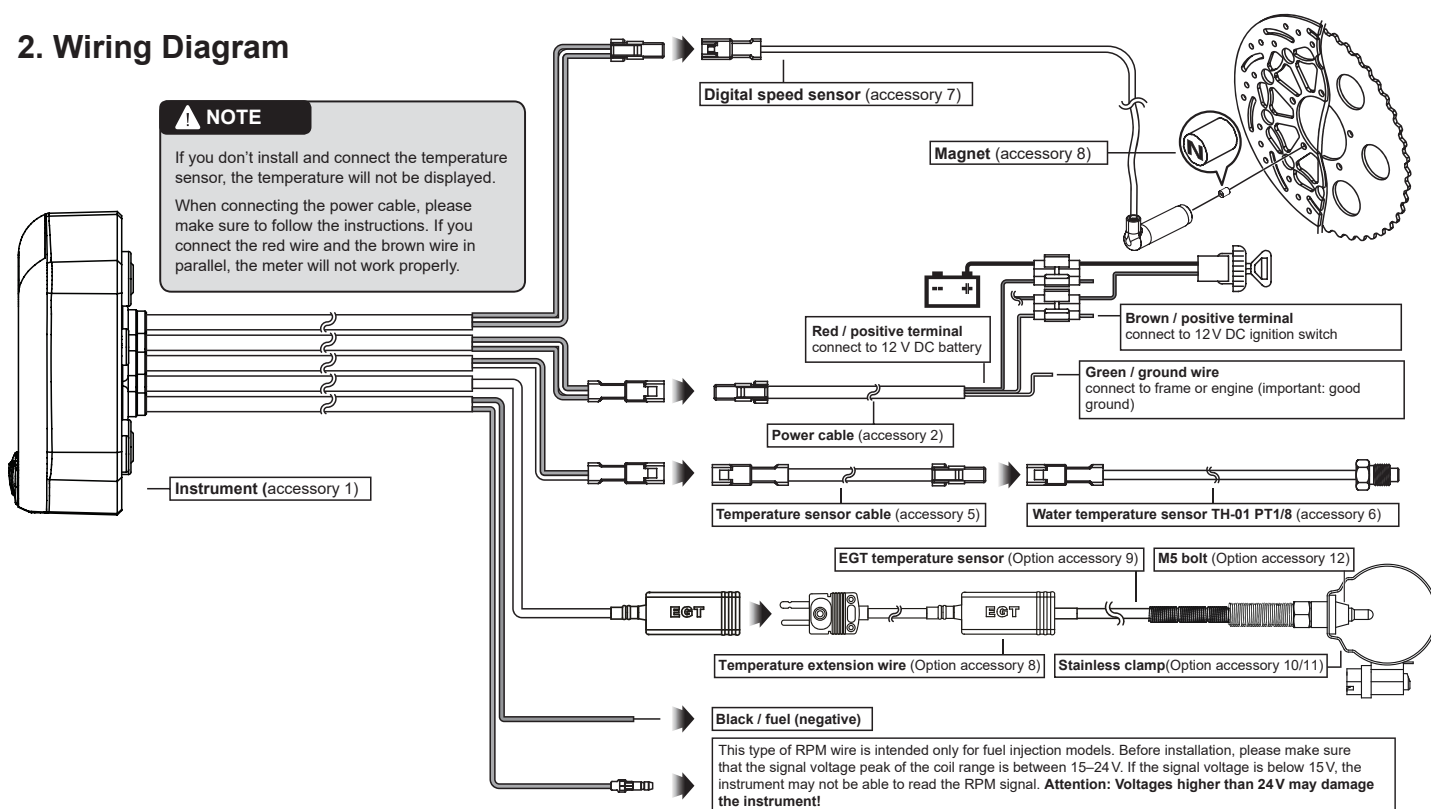11 Stainless clamp(21~38mm)
12 M5 bolt
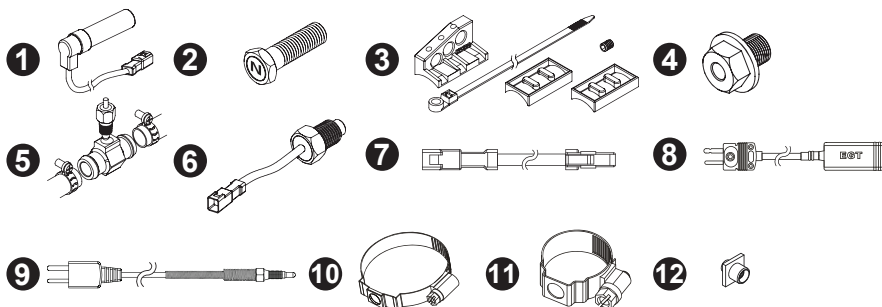
⚠ NOTE

These parts are not included in the delivery but can be purchased separately. For further information, please contact your local distributor.

Active Speed Sensor

The advantages of the active speed sensor are as follows: 1. You don't need to install the magnet opposite the speed sensor. 2. You can set up the sensor signal input with up to 60 points, which will result in a more accurate speed display. Please note that the speed sensor included in the kit is a passive speed sensor, which can pick up 20 sensor points at the most.
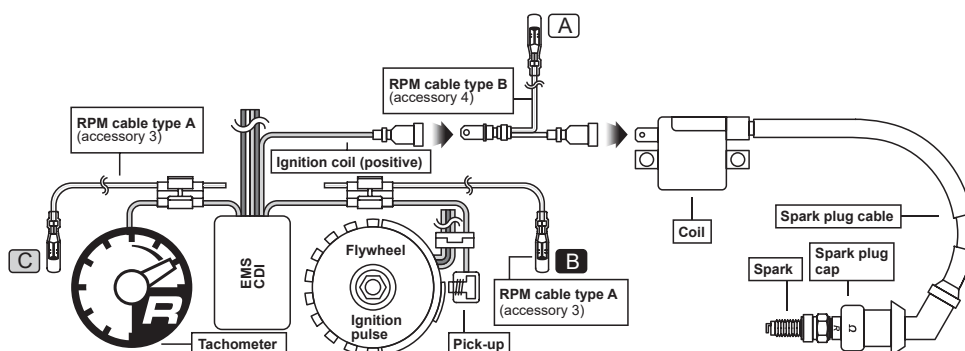
2. Wiring Diagram

⚠ NOTE

If you don't install and connect the temperature sensor, the temperature will not be displayed.

When connecting the power cable, please make sure to follow the instructions. If you connect the red wire and the brown wire in parallel, the meter will not work properly.

Digital speed sensor (accessory 7)

Magnet (accessory 8)

Red / positive terminal
connect to 12 V DC battery

Brown / positive terminal
connect to 12 V DC ignition switch

Green / ground wire
connect to frame or engine (important: good ground)

Power cable (accessory 2)

Instrument (accessory 1)

Temperature sensor cable (accessory 5)

Water temperature sensor TH-01 PT1/8 (accessory 6)

EGT temperature sensor (Option accessory 9)

M5 bolt (Option accessory 12)

Temperature extension wire (Option accessory 8)

Stainless clamp(Option accessory 10/11)

Black / fuel (negative)

This type of RPM wire is intended only for fuel injection models. Before installation, please make sure that the signal voltage peak of the coil range is between 15–24 V. If the signal voltage is below 15 V, the instrument may not be able to read the RPM signal. **Attention: Voltages higher than 24 V may damage the instrument!**

Installation of the RPM Wire

A: Please connect the RPM wire (type B) to the positive terminal of the ignition coil.

B: Please connect the RPM wire (type A) to the pick-up.

C: Please connect the RPM wire (type A) and the original tachometer signal wire in parallel. This method is available only if the original speedometer features a tachometer readout. You can get the RPM wire information from the service manual of your scooter.

For multi-ignition models, we recommend picking up the signal at the first ignition. The best signal source is C>B>A. If you have problems picking up a clear RPM signal, we recommend trying out different installation options.
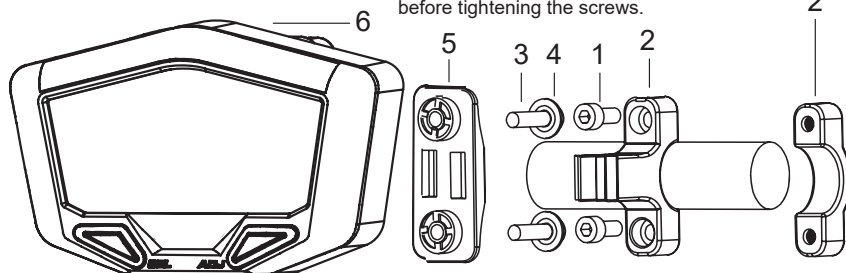
RPM cable type A (accessory 3)

RPM cable type B (accessory 4)

Ignition coil (positive)

EMS CDI

Flywheel

Ignition pulse

Tachometer

Pick-up

RPM cable type A (accessory 3)

Coil

Spark plug cable

Spark plug cap

Spark

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2.2 Installation

⚠ **NOTE**
Please adjust the angle of the instrument before tightening the screws.

1 M5 x 12L screw (2 x)
2 Instrument bracket for handlebar
Mount the bracket to the handlebar (7/8 inch)
3 M5 x 15L screw (2 x)
4 M5 washer (2 x)
5 Instrument mounting plate
6 Instrument
Attach the mounting plate to the instrument using the screws and washers.
Then attach mounting plate with instrument to bracket on handlebar.

3.1 The Display

Temperature alarm A
• Setting range: 60–250 °C (140–482 °F)
• Setting unit: 1 °C (°F)
Temperature alarm B
• Setting range: 200–1000 °C (392–1832 °F)
• Setting unit: 1 °C (°F)
Speed Warning
• Setting range: 30–360 km/h (19–225 MPH)
• Setting unit: 1 km/h (MPH)

Tachometer (Bar with 60 segments)
• Display range: either up to 10,000, 15,000 or 20,000 RPM
• Display unit: depending on the selected range: 166, 250 or 333 RPM

Volt meter (the external power)
• Display range: 8.0–18.0 V
• Display unit: 0.1 V
• When the external power is connected, it will show the voltage value directly. It shows 0.0 V when the external power is disconnected.
Temperature A
• Setting range: 0.0–250.0 °C (32.0–482.0 °F)
• Setting unit: 0.1 °C (°F)
Temperature B
• Setting range: 100–1200 °C (250 ~ 2100 °F)
• Setting unit: 1 °C (°F)

Clock
• Mode: 24 h
• If the instrument is off, the seconds will be displayed.

Low Fuel Level Warning
• Display range: 0%–100%
• Display unit: 5%
• If the fuel level is below 20%, it will be displayed as "5%".
• If the fuel level is above 20%, it will be displayed as "10%".

Sequential Shift Light
• Setting range: 5,000–20,000 RPM
• Setting unit: 100 RPM

Speedometer
• Display range: 0–360 km/h (0–225 MPH)
• Display unit: 1 km/h (1 MPH)
Tachometer (Digital)
• Display range: 0–20,000 RPM
• Display unit: 10 RPM

Odometer
• Display range: 0–99,999 km (miles)
  Automatic reset after 99,999 km (miles)
• Display unit: 1 km (miles)
Tripmeter A/B
• Display range: 0–999.9 km (miles)
  Automatic reset after 999.9 km (miles)
• Display unit: 0.1 km (miles)
Engine hours meter
• Display range: 0.0–9999.9 h
• Display unit: 0.1 h (6 minutes)

3.2 Functions and Specifications

NOTE Design and specifications are subject to change without notice!

Speedometer	Display range: 0–360 km/h (0–225 MPH)
	Display unit: 1 km/h or 1 MPH
Display interval	< 0.5 seconds
Odometer	Display range: 0–99,999 km (miles),then automatic reset
	Display unit: 1 km (miles)
Tripmeter A/B	Display range: 0–999.9 km (miles), then automatic reset
	Display unit: 0.1 km (miles)
Speed warning	Setting range: 30–360 km/h (19–225 MPH)
	Setting unit: 1 km/h (MPH)
Top speed record	Display range: 0–360 km/h (0–225 MPH)
Tyre circumference	Setting range: 300–2,500 mm
	Setting unit: 1 mm; sensor points: max. 20
Tachometer (digital)	Display range: 0–20,000 RPM
	Display unit: 10 RPM
Tachometer (bar)	Display range: either up to 10,000, 15,000 or 20,000 RPM
Thermometer	Display unit: °C or °F
Thermometer A	Display range: 0.0–250.0 °C (32.0–482.0 °F)
	Display unit: 0.1 °C (°F)
Thermometer B	Display range: 100–1200 °C (250 ~ 2100 °F)
	Display unit: 1 °C (°F)
Engine hours meter	Display range: 0.0–9999.9 h; unit: 0.1 h (6 min)
Shift light	Display range: 5,000–20,000 RPM
	Display unit: 100 RPM
Pre-shift light A/B	Display range: 500–5,000 RPM before shift light
	Display unit: 100 RPM
Top RPM record	Display range: 0–20,000 RPM
RPM pulse	Setting values: 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6

The RPM input pulse	Setting range: LO-ACT, HI-ACT
Temperature alarm A	Setting range: 60–250 °C (140–482 °F)
	Setting unit: 1 °C (°F)
Temperature alarm B	Setting range: 200–1000 °C (392–1832 °F)
	Setting unit: 1 °C (°F)
Top temperature record A	Display range: 0.0–250.0 °C (32.0–482.0 °F)
Top temperature record B	Display range: 100–1200 °C (250–2100 °F)
Fuel meter	Display range: 0–100%
	Setting unit: 100 Ω, 510 Ω, No display
Low fuel level warning	Setting range: 10–50%
	Setting unit: 10%
Target speed timer	Setting range: 30–360 km/h (20–225 MPH)
	Setting unit: 5 km/h (MPH)
Target distance timer	Setting range: 1/32–30/32 mile (50–1,500 m)
	Setting unit: 1/32 mile (50 m)
Top speed timer	The record includes
	1. Speed: 0–360 km/h (0–225 MPH)
	2. Distance: 0–999 m (0–3,280 feet)
	3. RPM: 0–20,000 RPM
	4. Time: 0–9:59.99 min
Standard	JIS D 0203 S2
Instrument size	100 x 60 x 20 mm
Instrument weight	ca. 200 g
Alarm lights	🔴 Speed (red) 🟡 Shift light A (yellow)
	🔴 Temperature alarm A (red) 🟠 Shift light B (orange)
	🔴 Temperature alarm B (red) 🔴 Shift light (red)
Voltmeter	Display range: DC 8.0–18.0 V
	Display unit: DC 0.1 V
Operating voltage	DC 12 V
Operating temperature	-10 to +60 °C

4.1 Switching Between Screens

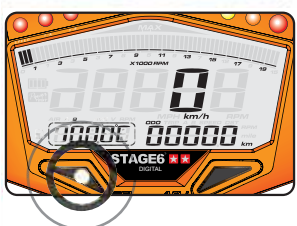• In **Standby** mode, press any button to activate the instrument.

4.1.1 The Select Button

• In the main screen, press the Select Button to switch **from clock** readout **to temperature A** readout.

• Press the Select Button to switch **from temperature A** readout **to temperature B** readout.

• Press the Select Button to switch **from temperature B** readout **to voltmeter** readout.

• Press the Select Button to switch **from voltmeter** readout **to fuel meter** readout.

• Press the Select Button to switch **from fuel meter** readout **to main screen**.

• The **main screen.**

4.1.1 The Adjust Button

In the main screen,
• press and hold the Adjust Button for 3 seconds to **change the speed unit**.
• press the Adjust Button to switch **from odometer to tripmeter A**.

In the tripmeter A readout,
• press and hold the Adjust Button for 3 seconds to **reset tripmeter A**.
• press the Adjust Button to switch **from tripmeter A to tripmeter B**.

In the tripmeter B readout,
• press and hold the Adjust Button for 3 seconds to **reset tripmeter B**.
• press the Adjust Button to switch **from tripmeter B to engine hours meter**.

In the engine hours readout,
• press and hold the Adjust Button for 3 seconds to **reset the engine hours meter**.
• press the Adjust Button to switch **from engine hours to max record**.

In the max record readout,
• press the Select Button to **change the max record screen from temp A to temp B**.
• press and hold the Adjust Button for 3 seconds to **reset the max record**.

• press the Adjust Button to switch from **max record back to the main screen with odometer readout**.

• The **main screen.**

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4.1.3 Pressing Both Buttons At Once (In Main Screen)

• Press both buttons at once to switch from digital speedometer to digital tachometer.

• Press and hold both buttons for 3 seconds to enter set-up mode *(see 4.2)*.

4.2 Setting Up the Instrument

In Main Screen

• In the main screen, press and hold both buttons for 3 seconds to enter the tyre circumference and the number of sensor points.

Tyre Circumference

• *E.g.: The tyre circumference is 1,300 mm.*
• Press the Select Button to move between digits.

> ⚠ **NOTE**
> Setting range: 300–2,500 mm
> Setting unit: 1 mm

> ⚠ **WARNING**
> • **Please measure the circumference of the tyre you will install the sensor on and check the number of magnet sensor points (magnets can be installed e.g. in disc screws.)**
> • **The speed displayed on the instrument will be affected by this setting, so please make sure to enter the correct value.**

When measuring the tyre circumference with a measuring tape, you can use the valve as starting and end point.
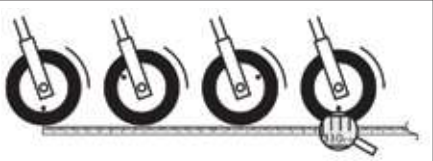
• Press the Adjust Button to change the respective digit.
• *E.g.: The tyre circumference setting has been changed from 1,000 mm to 1,300 mm.*

• Press the select button to enter the number of sensor points.

Sensor Points

• Press the Adjust Button to enter the respective number.
• *E.g.: The number of sensor points is 6.*

> ⚠ **NOTE**
> Setting range: max. 20

• *E.g.: The number of sensor points has been changed from 1 to 6.*
• Press the Select Button to get to the setting of the RPM pulse.

RPM Pulse

• *E.g.: The current value is to be changed to 2.*
• Press the Adjust Button to enter the respective value. To see which value is the correct one, see table below.
• **E.g.: The value is 0.5 (4C-1P).**

Setting value	Cycle and piston number		Number of RPM signals per ignition
0.5		4C-1P	2 signals per ignition
1	2C-1P	4C-2P	1 signal per ignition
1.5		4C-3P	2 signals per 3 ignitions
2	2C-2P	4C-4P	1 signal per 2 ignitions
2.5		4C-5P	2 signals per 5 ignitions
3	2C-3P	4C-6P	1 signal per 3 ignitions
4	2C-4P	4C-8P	1 signal per 4 ignitions
5		4C-10P	1 signal per 5 ignitions
6	2C-6P	4C-12P	1 signal per 6 ignitions

> ⚠ **NOTE**
> The following settings are possible:
> 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6
> **C stands for number of cycles, P for number of pistons.**

> ⚠ **CAUTION**
> **Four-stroke engines with one cylinder that ignite every 360° will have to be treated just like two-stroke engines with one cylinder.**

• *E.g.: The value has been changed to 2 (4C 4P).*
• Press the Select Button to get to the setting of the negative impulse.

Negative Impulse

• *E.g.: The setting is to be changed to "Lo" (negative impulse).*
• Press the Adjust Button to change the input signal.

> ⚠ **NOTE**
> You can set the impulse to "Hi" (positive impulse) or to "Lo" (negative impulse).
> ---
> If the tachometer can't get a signal (no RPM displayed on the screen), try out the other setting.

• *E.g.: The setting has been changed to "Lo" (negative impulse).*
• Press the Select Button to get to the setting of the RPM range.

Bar Tachometer Range

• *E.g.: The bar tachometer range is to be set to 20,000 RPM.*
• Press the Adjust Button to select the respective range.

⚠ **NOTE**

The available tachometer ranges are: 0–10,000, 15,000 or 20,000 RPM.

• *E.g.: The range has been changed from 0–10,000 RPM to 0–20,000 RPM.*
• Press the Select Button to get to the setting of the speed warning.

Speed Warning

• *E.g.: The speed warning is to be changed to 68 km/h.*
• Press the Select Button to move between digits.

⚠ **NOTE**

Setting range: 30–360 km/h (19–225 MPH). Setting unit: 1 km/h (MPH)

• Press the Adjust Button to enter the desired number.
• *E.g.: The speed warning has been changed from 60 km/h to 68 km/h.*

• Press the Select Button to get to the setting of the shift light.

The speed warning lamp lights on when the current speed has reached the set value.

About the Shift Light Setting

First set the actual shift light, then pre-shift light B and then pre-shift light A.

Yellow	Orange	Red
Pre-shift light A (5) RPM	**Pre-shift light B** (15) RPM	**Shift light** 9,500 RPM

Shift Light

• *E.g.: The shift light is to come on at 9,500 RPM.*
• Press the Adjust Button to enter the desired value.

⚠ **NOTE**

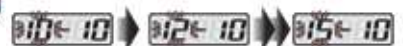Display range: 5,000–10,000 RPM
Display unit: 100 RPM

• *E.g.: The shift light setting has been changed from 5,000 to 9,500 RPM.*
• Press the Select Button to get to the setting of pre-shift light B.

Pre-Shift Light B

• *E.g.: The pre shift light B is to come on at 8,000 RPM, i.e. 1,500 RPM before the actual shift light. The value that is to be set is 15.*
• Press the Adjust Button to enter the desired value.

NOTE

Setting range: 5 (500RPM) – 50 (5000 RPM);
Setting unit: 100 RPM

• *E.g.: The setting value has been changed to 15.*
• Press the Select Button to get to the setting of pre-shift light A.

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Pre-Shift Light A

- *E.g.: The pre shift light A is to come on at 7,500 RPM, i.e. 500 RPM before shift light B. The value that is to be set is 5.*
- Press the Adjust Button to enter the respective value.

⚠ **NOTE**

Display range: 5 (500 RPM) – 50 (5000 RPM); Display unit: 100 RPM

- *E.g.: The setting value has been changed to 5.*
- Press the Select Button to get to the setting of temperature alarm A.

About the Shift Light

If the shift light and the two pre-shift lights are set as 9500–15–05, the 3 lamps will come on as follows:

Yellow	Orange	Red

Pre-shift light A	Pre-shift light B	Shift light
7,500 RPM	8,000 RPM	9,500 RPM

Temperature Alarm A

- *E.g.: Temperature alarm A is to be changed to 68 °C.*
- Press the Select Button to move between digits.

- Press the Adjust Button to enter the desired value.
- *E.g.: Temperature alarm A has been changed from 60 to 68 °C.*

- Press the Select Button to get to the setting of temperature alarm B.

⚠ **NOTE**

The red LED will come on according to the setting for temperature alarm A.

Temperature Alarm B

- *E.g.: Temperature alarm B is to be changed to 508 °C.*
- Press the Select Button to move between digits.

- Press the Adjust Button to enter the respective value.
- *E.g.: Temperature alarm B has been changed from 500 to 508 °C.*

- Press the Select Button to get to the setting of the clock.

⚠ **NOTE**

The red LED will come on according to the setting for temperature alarm B.

Clock

- *E.g.: The hours are to be changed to 14.*
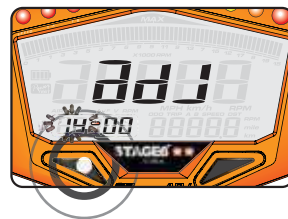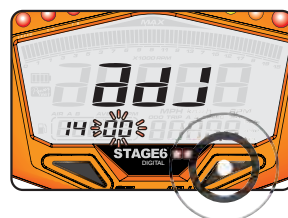- Press the Adjust Button to enter the respective value.

⚠ **NOTE**

Changing the time resets the seconds.

⚠ **NOTE**

Setting range: 0–23 hours

- *E.g.: The hours have been changed from 0 to 14.*
- Press the Select Button to get to the setting of the minutes.

- *E.g.: The minutes are to be changed to 05.*
- Press the Adjust Button to enter the respective value.

⚠ **NOTE**

Changing the time resets the seconds.

⚠ **NOTE**

Setting range: 0–59 minutes

- *E.g.: The minutes have been changed from 00 to 05.*
- Press the Select Button to get to the setting of the fuel gauge resistance.

The Fuel Gauge Resistance

- *E.g.: The fuel gauge resistance is to be changed to 510 Ω.*
- Press the Adjust Button to choose the respective resistance.

> ⚠ **NOTE**
> Alternatives: 100 or 510 Ω.
> If you don't install the fuel wiring, the fuel gauge will not display.

- *E.g.: The fuel gauge resistance has been changed from 100 Ω to 510 Ω.*
- Press the Select Button to get to the setting of the low fuel level warning light.

Low Fuel Level Warning

- *E.g.: The low fuel level warning is to come on at 50%.*
- Press the Adjust Button to change the setting.

> ⚠ **NOTE**
> Setting range: 10–50%

- *E.g.: The insufficient fuel warning has been changed from 10% to 50%.*
- Press the Select Button to change backlight brightness.

Backlight

- *E.g.: You want to set the brightness to 5.*
- Press the Adjust Button to choose the respective brightness.

> ⚠ **NOTE**
> Setting range: 1 (dark) – 5 (bright)

- *E.g.: The backlight setting has been changed from ILL 1 to ILL 5.*
- Press the Select Button to get to the target speed timer setting.

Target Speed Timer

- *E.g.: The target speed timer setting is to be changed to 0–110 km/h.*
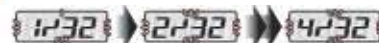- Press the Adjust Button to select the respective value.

- *E.g.: The target speed timer setting has been changed from 0–30 km/h to 0–100 km/h.*
- Press the Select Button to get to the target distance timer setting.

Target Distance Timer

- *E.g.: The target distance timer setting is to be changed to 4/32 of a mile.*
- Press the Adjust Button to select the respective value.

- *E.g.: The target distance timer setting has been changed from 1/32 to 4/32 of a mile.*
- Press the Select Button to get back to the main screen.

- You are in the main screen again.

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5.1 Target Speed Timer Test

• In the main screen, press and hold the Adjust Button for 3 seconds to switch the instrument to timer mode.

⚠ WARNING
Please only use this function on race tracks to avoid accidents!

• In the Power Test screen, press the Select Button 1 time to enter the target speed timer screen.

⚠ If there already is a power test record stored, it will be displayed now. Before starting a new test, the old record will have to be cleared.

⚠ NOTE
Please start the test while the scooter is standing still.

• Press the Adjust Button to clear the record and enter the target speed timer.
• *E.g.: The stored record is displayed: the target speed timer was set to measure the time needed to reach 110 km/h, the test result was 19.20 s. The max. RPM during the test was 10,000 RPM.*

⚠ NOTE
In order to save a record and get back to the main screen, press and hold the Select Button for 3 seconds.
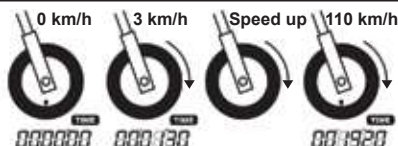
• As soon as the scooter moves, the timer will start automatically.

⚠ NOTE
To find out how to adjust the Power Test timer settings, please see *4.2*.

The timer is automatic; it will start as soon as your scooter starts moving and stop as soon as your scooter stops.

0 km/h   3 km/h   Speed up   110 km/h
000000   000:130   00:1920

⚠ The 🔆Power6🔆 will keep flashing throughout the test.

• Once the target speed has been reached, the timer will stop counting automatically.
• To perform another test, press the Adjust Button to clear the record and enter the target speed timer again.

⚠ NOTE
In order to save a record and get back to the main screen, press and hold the Select Button for 3 seconds.

If you don't reach the target speed or stop accelerating during the test, press the Adjust Button to stop the timer. Then press the Adjust Button to clear the record and enter the target speed timer again.

0 km/h   3 km/h   Speed up   Test fail
000000   000:130   002920

5.2 Target Distance Timer Test

• In the main screen, press and hold the Adjust Button for 3 seconds to switch the instrument to timer mode.

⚠ WARNING
Please only use this function on race tracks to avoid accidents!

• In the Power Test screen, press the Select Button 2 times to enter the target distance timer screen.

⚠ If there already is a power test record stored, it will be displayed now. Before starting a new test, the old record will have to be cleared.

⚠ NOTE
Please start the test while the scooter is standing still.

• Press the Adjust Button to clear the record and enter the target distance timer.
• **E.g.: The stored record is displayed: the target distance timer was set to measure the time needed to cover 4/32 of a mile (200 m), the test result was 10,27 s. During the test, top speed was 63 km/h; max RPM was 8,000.**

⚠ NOTE
In order to save a record and get back to the main screen, press and hold the Select Button for 3 seconds.

• As soon as the scooter moves, the timer will start automatically.

⚠ NOTE

To find out how to adjust the Power Test timer settings, please see *4.2*.

The timer is automatic, so when your bike starts to move, the timer will start to count the time and stop automatically after you stopped the bike.

0 m ⟶ 100 m

The ⚡ will keep flashing throughout the test.

• Once the target distance has been reached, the timer will stop counting automatically.
• To perform another test, press the Adjust Button to clear the record and enter the target distance timer again.

⚠ NOTE

In order to save a record and get back to the main screen, press and hold the Select Button for 3 seconds.

If you stop accelerating during the test or want to stop the test, press the Adjust Button to stop the timer. Then press the Adjust button to clear the record and enter the target distance timer again.

0 m ⟶ Test fail

5.3 Top Speed Test

• In the main screen, press and hold the Adjust Button for 3 seconds to switch the instrument to timer mode.

⚠ WARNING

Please only use this function on race tracks to avoid accidents!

• In the Power Test screen, press the Select Button 3 times to enter the top speed test screen.

⚠ If there already is a power test record stored, it will be displayed now. Before starting a new test, the old record will have to be cleared.

⚠ NOTE

Please start the test while the scooter is standing still.

• Press the Adjust Button to clear the record and enter the top speed timer.
• *E.g.: The stored record is displayed: the top speed was 180 km/h, the time needed was 10.20 s, the distance needed was 510 m. During the test, the max RPM was 10,000.*

⚠ NOTE

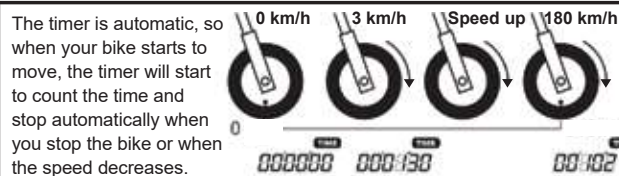In order to save a record and get back to the main screen, press and hold the Select Button for 3 seconds.

• As soon as the scooter moves, the timer will start automatically.

⚠ The setting unit is automatically changed together with the speed unit *(see 4.2)*.

⚠ NOTE

The top speed test range:
0–360 km/h; distance: 0–999 m (3280 ft.);
RPM: 0–10.000/20.000 RPM; timer: 0–9:59.99 min.

The timer is automatic, so when your bike starts to move, the timer will start to count the time and stop automatically when you stop the bike or when the speed decreases.

0 km/h   3 km/h   Speed up   180 km/h

The ⚡ will keep flashing throughout the test.

• Once a new top speed has been reached, the timer will stop counting distance and time.
• To perform another test, press the Adjust Button to clear the record and enter the top speed timer again

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S6
INSTRUCTIONS
DIGITAL SPEEDOMETER MK2, UNIVERSAL

S-Type Speed Sensor Bracket Installation Instructions

• Loosen the screw on the caliper.

• Install the S-type bracket on the caliper.

• Adjust the bracket to the proper angle: once the speed sensor has been installed into its bracket and the magnets have been installed into the screws of the brake disc, the magnets must pass under the sensor when the wheel turns.

• Install the speed sensor.

• Adjust the distance between sensor and magnet to get the best speed signal. It should be under 2 mm.

L-Type Speed Sensor Bracket Installation Instructions

• Install the L-type bracket and the anti-slip rubber on the front fork and adjust them to the proper position.

• Fix the bracket to the front fork with a cable tie, noting the correct position of the bracket: once the speed sensor has been installed into its bracket and the magnets have been installed into the screws of the brake disc, the magnets must pass under the sensor when the wheel turns.

• Install the speed sensor into the proper hole in the bracket.

• Adjust the distance between sensor and magnet to get the best speed signal. It should be under 2 mm.


About the Active Speed Sensor Installation

The active speed sensor can be installed to pick up the speed from various metal parts:

Ex. 1: Disc screws
Ex. 2: Brake discs and gaps (Please make sure the gaps have the same width to avoid wrong signals.)
Ex. 3: Sprockets and gaps (Please make sure the gaps have the same width to avoid wrong signals.)

We recommend picking up the speed signal from the disc screws. The more sensor points there are, the better the speed accuracy. The maximum number of sensor points that the active speed sensor can detect is 60 points.
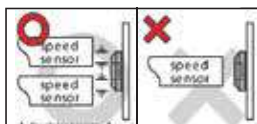
Ex. 1: Hexagon socket disc screw
Best area to pick up the signal: the edge of the screw.
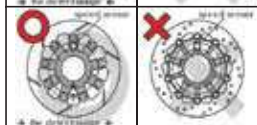
⚠ Please don't try to pick up the signal from the middle hole of the hexagon socket screw, as this may lead to incorrect signals.

Ex. 1: Hexagon screw
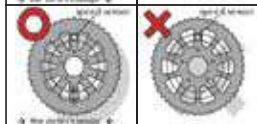Best area to pick up the signal: the middle of the screw.

⚠ Some hexagon screws have a small hole in the centre. In this case, we recommend picking up the signal from the edge of the screw like the hexagon socket screw.

Ex. 2: Disc
Best area to pick up the signal: the gaps of the disc.

⚠ Please note that this will not work when the gaps have different widths!

Ex. 3: Sprocket
Best area to pick up the signal: the gaps of the sprocket.

⚠ Please note that this will not work when the gaps have different widths!

6. Trouble Shooting

The following problems do not necessarily mean that the instrument is faulty. Please try the following steps before sending it in for repair.

Problem	Possible Solutions
The instrument doesn't work although the power is on	• Please ensure that the wiring is connected and wiring and fuse are not broken. • The battery may be low. In this case, please replace the battery.
Instrument displays incorrect information	• Please ensure that the battery provides 12 V DC.
No or incorrect speedometer reading	• Please ensure that the speed sensor is connected correctly. • Please ensure that the tyre circumference is entered correctly *(4.2)*.
No or incorrect tachometer reading	• Please ensure that the RPM sensor is connected correctly. • Please ensure that the spark plug is R type. • Please check the settings *(4.2)*.
No or incorrect temperature reading	• Please ensure that the temperature sensor is connected correctly.
No or incorrect fuel gauge reading	• Please ensure that there is fuel in your tank. • Please ensure that the wiring is connected correctly. • Please check the settings *(4.2)*.
No or incorrect clock reading	• Please ensure that the wiring is connected correctly. The red cable has to be connected to the positive terminal of the battery, the brown cable has to be connected to the main switch (positive).

7. Configuration notes