



Thank you for purchasing our DB-03R meter. Before operating this unit, please read carefully the instruction sheet and retain it for future reference.

⚠ Notice

- 1. This meter work on DC 12 volts applications only.
- 2. For proper installation, please follow the steps described in the instruction sheets. Any damages caused by wrong installation shall be imputed to the users. 3.Don't break or modify the wire terminals. To avoid any short circuit, do not pull the wires out of the terminal when installing.
- 4.Do not disassemble or change any parts.
- 5. Opening the instrument will void any warranty. Maintenance or repair should be executed by our professionals only.

MARK MEANING:

∧ Some procedures must be followed to avoid damages to the instrument.

AWARNING! Some procedures must be followed to avoid injuries to the user or others.

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



Flash

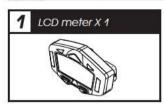


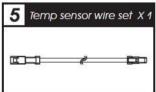
Press the

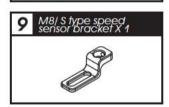


Press the Button once Button 3 seconds

1-1 Accessory

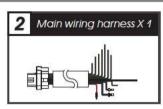


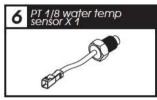


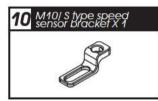




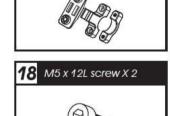


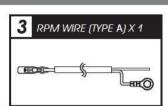


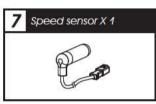




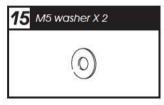
14 Meter bracket X 1

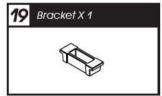


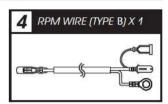


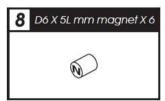










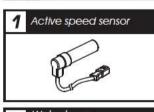


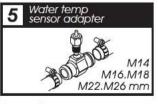




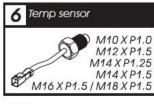
NOTE Please contact your local distributor if the items received in the box are not the same as the one listed above.

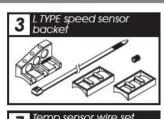
1-2 Optional accessories

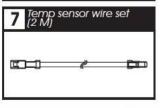


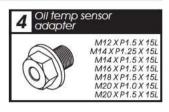




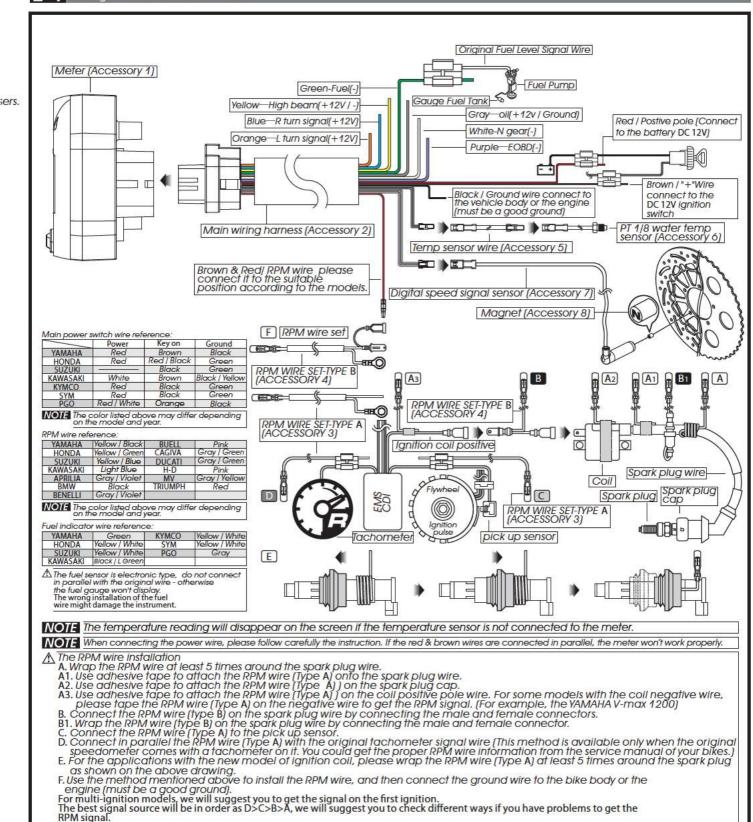




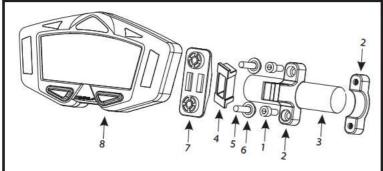




NOTE The optional active speed sensor can read up to 60 pulses and do not require the installation of any magnets to pick up the speed signal. Note that the passive speed sensor supplied with the instrument can read up to 6 pulses.



2-2 Installation instruction.



When installing, please follow the steps bellow

- 1.M5 x 12L screw x2
- 2.Meter bracket for handle bar
- 3. Fix the bracket on handle bar (7/8 inch)
- 4.Bracket x1
- 5.M4 x 10L screw x2
- 6.M5 washer x2
- 7.Meter board
- 8. Attach the meter on the board with the screws.
- Attach the meter and the bracket together.

NOTE Adjust the meter to the proper angle before tightening the handle bar bracket screws.

2-3 Installation instruction



Put the magnet into the brake disc screw hole.



Install the s type sensor bracket.



Adjust the sensor bracket position to make sure the sensor is facing the magnet to prevent bad speed signal.

The RPM Red, Yellow shift light

Setting unit: 100 RPM

12:00

Setting range: 1,000~15,000 RPM

•Warning: Light on (F-OFF), Flash (F-ON)



install the speed sensor on the bracket.



In order to get a good speed signal, the distance between the speed sensor and magnet should be under 8mm.

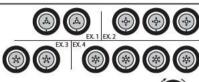




Higher number of magnets installed on the disk brake will result in a faster speed display on the gauge. The letter "N" on the magnets must face the speed sensor in order to pick up correctly the speed.

EX 1: If the disk brake has 3 screws, you can install 1 or 3 magnets.

- EX 2: If the disk brake has 4 screws, you can install 1,2 or 3 magnets.
- EX 3: If the disk brake has 5 screws, you can install 1 or 5 magnets.
- EX 4: If the disk brake has 6 screws, you can install 1,2,3 or 6 magnets.





3-1 Basic function instruction

Tachometer

- Display range: 0~10,000 / 0~12,000 / 0~15,000 RPM.
- Display unit:
- 10,000 RPM-Each level represents 166 RPM, 12,000 RPM-Each level represents 200 RPM, 15,000 RPM-Each level represents 250 RPM

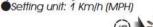
Temperature warning

- Osetting range: 60~250°C (140~482°F)



Speeding warning

- Setting range: 30-360 km/h
- (19~225 MPH)





Thermometer

- Display range: 0.0~250.0°C (32.0~482.0°F)
- Display unit: 0.1°C (°F)Display-----°C(-----°F) if temperature sensor is not connected.

Digital Volt meter

- Display range: DC 8~DC 18 V
- Flashing warning when Voltage lower than 11.5 V or higher than 15.5 v.
- Clock 24H

Fuel Level

- Display range: 6 levels. The fuel level begins to flash
- when only 1 level is left.

Gear meter

00000

● Display range: N, 1, 2, 3, 4, 5, 6, 7, 8, 9

- Display range: 0~360 km/h (0~225 MPH)
- Display unit: km/h
- (MPH) for alternative

Odometer

- Display range:
- 0~99999 km (mile), reset automatically after 99999 km.
- Display unit: 1 km (mile).

Trip meter A.B.

- ●Display range: 0~999.9 km (mile), reset automatically after 000 0 km
- Display unit: 0.1 km (mile).

Total hour meter

- ●Display range: 0~99999 H.
- Display unit: 1 H.

Hour meter A.B.

- ●Display range: 0.0~999.9 H.
- Display unit: 0.1 H.

MAX record
The meter will record the top speed
, RPM, gear and temperature
automatically.



3-2 Functions Speedometer Display range: 0~360 km/h (0~225 MPH) Display unit: km/h or MPH ODisplay internal < 0.5 second ○Odometer Display range: 0~99999 km (mile), reset automatically after 99999 km (mile). OTrip meter A/B Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile). Display unit: 0.1 km (mile). Speeding warning Display range: 30~360 km/h (19~225 MPH) Display unit: 1 km/h (MPH) Total hour meter Display range: 0~99999 H. Display unit: 1 H. Hour meter A.B Display range: 0.0~999.9 H. Display unit: 0.1 H. OTire circumference Setting range: 300~2,500 mm Setting unit: 1 mm, Sensitive point: 1~20 ●Tachometer Display range: 0~10,000 / 0~12,000 / 0~15,000 RPM. Display unit: 10,000 RPM-Each level represents 166 RPM, 12,000 RPM-Each level represents 200 RPM, 15,000 RPM-Each level represents 250 RPM ODisplay internal < 0.5 second

OThe RPM Red, Yellow Setting range: 1,000~15,000 RPM

Light on (F-OFF) Flash (F-ON)

Setting unit: 100 RPM

	OThe RPM input signal i	number setting Setting range: 0.5, 1~24
	OThe RPM input pulse	Setting range: HI (The positive wave pulse) Lo (The negative wave pulse)
	Temperature unit	Display unit: °C & °F
	●Thermometer	Display range: 0.0~250.0°C (32.0~482.0°F) Display unit: 0.1°C (°F)
	ODisplay internal	< 0.5 second
	Over temp warning (Water temperature)	Setting range: 60~250°C (140~482°F) Setting unit: 1°C (°F)
	OTop temperature reco	ord Display range: 0~250°C (32~482°F)
	•Gear meter	Display range: N, 1, 2, 3, 4, 5, 6, 7, 8, 9
	•Fuel meter	Display range: 6 levels
		Display unit: Each level represents 16.6 % Setting range: 100Ω , 250Ω , 510Ω , 1200Ω , SW
	●Clock	24 H
	•Voit meter	Display range: DC 8~18 V. Flashing warning when
		Voltage lower than 11.5 V or higher than 15.5 v.
	Backlight brightness light	Setting range: 1-5 (Darkest)~5-5 (Brightest) Display unit: Each level represents 20 %
	Backlight color	Setting range: blue, orange, purple
	●Effective voltage	DC 12V
	Effective temperature	range -10~+60°C
	Meter standard	JIS D 0203 S2
	●Meter size	120 X 68.5 X 44.1 mm
	Meter weight	Around 127.3 g
	●Indicator light color	Neutral-green, High beam-blue, Repeater-green, EOBD-amber, Oil-red, Temperature alarm-red, Speeding warning-red, RPM shift light (Red, Yellow)

NOTE Design and specifications are subject to change without notice!

3-3 Button function instruction

Press the Left button

shift light

OMAX RPM record

OWarning

 In main screen, press the Left button to choose the clock, volt, water temperature or MAX record display.

- 2.In setting screen, press the Left button to choose the function you want to set.
- 3. When the meter is off, press the Left button to wake up the clock.

Hold the Left button for 3 seconds

1.In setting screen, hole pressing the Left button for 3 seconds to go back to the main screen.

Display range: 0~10,000 / 0~12,000 / 0~15,000 RPM

Press the Right button

- 1.In main screen, press the Right button to choose the odometer, trip A, trip B, total hour meter, hour meter A or hour meter B display.
- 2.In setting screen, press the Right button to change the setting numbers. If you keep pressing down the Right button the number will increase quikly.
- 3. When the meter is off, press the Right button to wake up the clock.

Hold pressing the Right button for 3 seconds

 In the main screen, hole the Right button for 3 seconds to reset the trip A, trip B, hour meter A, hour meter B and the MAX record.

Hold the Right button

 In the setting screen, hold the right button to add quikly the set value.

Hold pressing the Right+Left for 3 seconds

1.In main screen, hole the Right+Left buttons at the same time for 3 seconds to enter the setting screen.

3-4 Stand by function instruction



When the meter is off, press Right or Left button to wake up the clock.



•The clock will display 30 seconds after wake up.

3-5 Main function instruction (Right button)



●In main screen (ODO). Press the Right button one time to enter the Trip A screen



- In Trip A screen. Press the Right button one time to enter the trip B screen.
- Hold the Right button for 3 seconds to reset Trip A.







- In Trip B screen. Press the Right button one time to enter the total hour meter screen.
- Hold Right button for 3 seconds to reset Trip B.





In the total hour meter screen. Press the Right button one time to enter the hour meter A screen.



- In the hour meter A screen. Press the Right button one time to enter the hour meter B screen.
- ●Hold the Right button for 3 seconds to reset hour meter A record.





- In hour meter B screen. Press the Right button one time to go back to the main screen.
- Hold the Right button for 3 seconds to reset hour meter B record.







3-6 Main function switch instruction (Left button)



In the clock screen, press the Left Button one time to enter the volt screen.



●In the volt screen, press the Left Button one time to enter the water temperature screen.



In the water temperature screen. press the Left Button one time to enter the MAX record screen.



In the MAX record screen, press the Left Button one time to go back to the clock screen.

3-7 Setting screen instruction



1.Speed and Temp. unit



2.Speeding warning setting



3.RPM red shift light value setting and flashing ON/OFF



4.RPM yellow shift light value setting and flashing ON/OFF



5.Temperature warning setting



6.Circumference and sensing point



7. Signal type and piston numbers



8.RPM range



9.Fuel gauge resistance



10.Clock



11.Backlight colors and brightness



12.Gear meter



13.Internal ODO display



14.Extenal ODO setting

4 Entering setting screen



In the main screen, hold for 3 seconds the Left & Right button to enter the setting screen.

4-1 Unit setting (Speed, Temperature)

Press the Left button one time to enter the speed unit setting screen.

Now, a1 is flashing on the screen!



- EX. To change the setting from MPH to km/h.
- Press the Right button to change the setting.

∆The odometer & trip meter value will change according to the speed unit.



Press the Left button one time to enter the temperature setting screen.



- EX. To change the setting from °C
- Press the Right button to change the setting.

⚠ The temperature unit is now flashing!



- Press the Left button once to go back to the a1 screen.
- **DEX.** The temperature unit setting is changed from °C to °F.



- Press the Right button once to enter the speeding warning setting screen.
- ∧ Now the a1 is flashing!



4-2 Speeding warning setting

Press the Left button once to enter the speeding warning setting screen.

∧ Now the a2 is flashing!



- EX. We want to change the setting to 80 km/h.
- Press the Left button to move to the digit you want to set.
- Press the Right button to change the setting.

Note Setting range: 30~360 km/h (19~225 MPH) Setting unit: 1 Km/h (MPH)

⚠ The setting unit will change together will the speed unit setting (4-1).



- Press the Left button once to go back to the a2 screen.
- EX. Now the setting is changed from 60 km/h to 80 km/h.



Press the Right button once to enter the red shift light setting screen.

↑ Now the a2 is flashing!



4-3 Red shift light setting

- EX. Set the red shift light at 9,500 RPM.
- Press the Left button to move to the digit you want to set.



Press the Right button to change the value



Note Setting range: 100~15,000 RPM Setting unit: 100 RPM



- Press the Left button one time to enter the red shift light warning setting screen.
- EX. The red shift light is set from 9,000 RPM to 9,500 RPM.



- ●EX. To set F-ON (Flashing ON) red shift light warning.
- Press the Right button to change the setting value.









- Press the Left button one time to go back to the a3 screen.
- EX. The red shift light warning is set form F-OFF to F-ON.



Press the Right button once to enter the yellow shift light setting screen.

Now, a3 is flashing on the screen!



4-4 Yellow shift light setting

- EX. Set the yellow shift light at 8,500 RPM.
- Press the Left button to move to the digit you want to set.



Press the Right button to change the setting.







Note Setting range: 100~15,000 RPM Setting unit: 100 RPM



- Press the Left button once to enter the yellow shift light warning setting screen.
- EX. The yellow shift light as been set from 8,000 RPM to 8,500 RPM.



EX. To set F-ON (Flashing ON) for Yellow shift light warning.

Press the Right button to change the setting value.











Press the Left button once to go back to the a4 screen.

EX. The yellow shift light warning as been set form F-OFF to F-ON.



Press the Right button once to enter the over temp warning (Water temperature) setting screen.

Now, a4 is flashing on the screen!



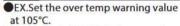
If you set the RPM yellow shift light at 8,500 RPM, the red shift light will light on at 9,500.











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







Press the Right button to change the value.







Note Setting range: 60~250°C (140~482°F)

Setting unit: 1°C (°F)



- Press the Left button once to go back to the a5 screen.
- EX. Now the over temp warning (water temperature) as been set form 100°C to 105°C.



Press the Right button once to enter the tire circumference and sensor point setting screen.

Now, a5 is flashing on the screen!



The temperature light will go ON when the temperature reached your setting.







4-6 Tire circumference and sensor point setting

- EX. If the tire circumference is at 1,300 mm.
- Press the Left button once to enter the tire circumference setting screen.
- Press the Left button to move to the digit you want to set.



Press the Right button to change the value.



Note Setting range: 300~2500. Setting unit: 1mm

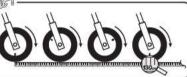
A CAUTION!

- Measure the circumference of tire which the sensor will be installed and keep note of the number of sensor points.
- The speed displayed on the meter will be affected by the setting. Make sure the tire size and the number of sensor point is correct before you set the value.





Use the valve as the starting point to measure the tire circonference. Use a measuring tape to get the distance for one wheel rotation.





- EX. If the sensor point is set at 06P.
- Press the Left button once to enter the sensor point setting screen.
- Press the Left button to move to the digit you want to set.





Press the Right button to change the value







Note Setting range: 01P~20P. Setting unit: 01P.

EX. Now the tire circumference is set from 1,000 to 1,300 mm.



- Press the Left button once to go back to the a6 screen.
- EX. The sensor point is now set from 01P to 06P.



Press the Right button once to enter the input pulse setting screen.

Now, a6 is flashing on the screen!



4-7 RPM input signal setting

EX. You want to connect the RPM signal wire to the pick up signal and there are 13 flywheel signals per turn.

 Press the Left button once to enter the RPM input signal setting screen.

Press the Right button to change the value.



Note Setting range: 0.5, 1~24.



- ●EX. Change the setting to Lo.
- Press the Left button once to enter the input pluse setting screen.
- Press the Right button to change the

Note We define the RPM input pulse as Hi (The positive pulse) & Lo (The negative pulse.)

Note If the RPM displayed on the meter is incorrect, choose another setting and try it again.



Press the Left button once to go back to the a7 screen.

EX. The input pulse setting as been changed from is Hi to Lo.



Press the Right button once to enter the RPM range setting screen.

Now, a7 is flashing on the screen!



4-8 RPM setting range

- ●EX. Set the RPM range is at 15000
- Press the Left button once to
- enter the RPM range setting screen.
- Press the Right button to change the value.



Note Seffing range: 0~10,000 RPM,

or 0~12,000 RPM,

or 0~15,000 RPM



Press the Left button once to go back to the a8 screen.

EX. Now the RPM range has been changed from is 10,000 to 15,000 RPM.



 Press the Right button once to enter the fuel resistance setting screen.

∧ Now, a8 is flashing on the screen!



4-9 Fuel gauge resistance setting

•EX. The fuel gauge need to be set to 510Ω.

Press the Left button once to enter the fuel resistance setting screen.

Press the Right button to change the value.



Note The fuel gauge resistance setting range: 100Ω , 250Ω , 510Ω , 1200Ω , SW (turn off).

Note When Fuel Setting is set to "SW", the fuel level symbol will light up when fuel level signal wire is connected to the negative (-) wire.



- Press the Left button once to go back to the a9 screen.
- •EX. The setting has been changed from 100Ω to 510Ω.



 Press the Right button once to enter the clock setting screen.

Now, a9 is flashing on the screen!



4-10 clock setting

- EX. Set the clock at 0:05.

 Press the Left button once to enter the clock setting screen.
- Press the Left button to move to the digit you want to set.



 Press the Right button to change the value.



Note This is a 24 H clock



- Press the Left button once to go back to the a10 screen.
- EX. The clock has been set from 0:00 to 0:05.



 Press the Right button once to enter the backlight brightness and color setting screen.

Now, a10 is flashing on the screen!



4-11 Backlight brightness & color setting

- Press the Left button once to enter the backlight color setting screen.
- Press the Right button to change the value.



Note Color setting screen:
C- bl(Blue) \ C- Or(Orange) \
C- Pu(Purple) \circ



- EX. Change the backlight brightness to 3-5 (60% brightness.)
- Press the Left button once to enter the backlight brightness setting screen.
- Press the Right button to change the value.



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.



- Press the Left button once to go back to the a11 screen.
- EX. The backlight brightness has been set from 5-5 to 3-5.



 Press the Right button once to enter the gear learning setting screen.

Now, a11 is flashing on the screen!



4-12 Gear learning setting

- ↑ If the tire circumference, sensing point
 (4-6) or the RPM input signal (4-7) change,
 the meter need to start over the the gear
 learning mode.
- Press the left button once to choose turn on or off the gear indicator display.
- Press the right button to choose the setting mode.



OFF

Press the Left button once. The LEArN word is flashing!





 Hold the Right button for 3 seconds to enter the gear learning setting screen

Note If you don't want the meter to learn the gear position, then press the right button once to enter the odometer display screen. (see 4-13)



Start riding when "GO" is flashing.

Note Hold the right button for 3 seconds to quit the learning and return to the previous screen.



STEP 1



•When the number 1 is flashing.
Put the motorcycle in 1st gear
and start riding slowly the
motorcycle until the meter detect
the correct gear. Once the meter
has detected the 1st gear, the
screen will automatically switch
to number 2.

STEP 3



| When the number 3 is flashing.
| Put the motorcycle in 3rd gear and start riding slowly the motorcycle until the meter detect the correct gear. Once the meter has detected the 3rd gear, the screen will automatically switch to number 4.

STEP 2



er 2 is flashing.

When the number 2 is flashing.
Put the motorcycle in 2nd gear
and start riding slowly the
motorcycle until the meter detect
the correct gear. Once the meter
has detected the 2nd gear, the
screen will automatically switch
to number 3.

STEP 4





Ex: The main screen now display the number 6. If your motorcycle have 7 gears, slow down and wait until the meter goes back to the main screen.

4–13 Odometer display



- Press the Right button once to enter the odometer setting screen.
- ●EX. The odometer display is 12500 km.

4-14 Odometer setting



- ●EX. Set the odometer to 15000 km.
- Press the Left button once to enter the external odometer setting screen.
- Press the Left button to move to the digit you want to set.
- Press the Right button to change the value.



- Press the Left button once to go back to the a14 screen.
- EX. The odometer setting has been changed from 7750 to 15000 km.



- Press the Right button once to go back to the main screen.
- Now, a14 is flashing on the screen!



Main screen.

5 Fuel gauge resistance reference

YAMAHA	JOG 50,100	100Ω
	RS 100	100Ω
	RSZ 100	100Ω
	SV MAX 125	100Ω
	Cygnus 125	100Ω
	New Cygnus 125	100Ω
	GTR 125	100Ω
	LC 135	100Ω
	NEW LC 135	100Ω
	LAGENDA 110	100Ω
	S-MAX 150	100Ω
	T-MAX 530	100Ω
	MIO 110	100Ω
	AEROX 50	100Ω
	BWS 125	100Ω
HONDA	MSX 125	250Ω
	WAVE 110	510Ω
	GN5 110	510Ω
	SH-150i	510Ω
	PCX 125	100Ω
70	CBR 250	180Ω
GILERA	RUNNER 50	100Ω
PEUGEOT	SpeedFight 50	100Ω
APRILIA	SR 50	100Ω
SUZUKI	V125	100Ω

KYMCO	GOING 100	510Ω
	JR 100	510Ω
	SR G4 125	510Ω
	V-LINK GP 125	510Ω
	KTR 150	100Ω
	RACING 125,150	1200Ω
	QUANNON 150	1200Ω
	G5 125,150	1200Ω
	G6 150	100Ω
	VJR 50, 110	1200Ω
SYM	S-PRO 100	100Ω
	Wolf 125	100Ω
PGO	G-MAX 125	100Ω
	X-HOT 125,150	100Ω
	I'ME 125	100Ω
	J BUBU 115	700Ω
	AF 125,150	700Ω
	G-MAX 150	700Ω
AEON	Elite 250	100Ω
	CO-IN 125	100Ω
	MY 125,150	100Ω
	OZ 125,150	100Ω
Hartford	Mini 125	100Ω
	HD 150	100Ω

6 Trouble shooting

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

Trouble	Check item
The meter doesn't work when the power is on.	 The power is not supplied properly to the meter. →Make sure the wiring harness is connected correctly. The wiring or fuse might be broken. →The battery is too old to supply enough DC 12V power to make the meter work properly.
The meter shows wrong information.	Check the voltage of your battery, and make sure the voltage is over DC 12V.
Speed does not appear or appear incorrectly.	Make sure the speed sensor is connected properly. Check the tire-size setting. Refer to the manual 4-6.
Tachometer does not appear or appear	Check the RPM wire is connected correctly.
incorrectly.	●Check if the spark plug is a "R" type. If not, replace the spark plug with the "R" type spark plug. ●Check your setting. →Please refer to the manual 4-7.
Temp does not appear or appear incorrectly.	Ocheck the temp sensor. →Did the wire broke or disconnect?
Fuel gauge does not	Check your fuel tank.
appear or appear	→Is there any fuel inside the tank? • Check the wiring harness.
incorrectly.	→Is the wire connected properly? ●Check the setting. →Refer to the manual 4-9.
The clock is incorrect.	Do you connect the wires correctly. →Check the positive wire (Red) connected to the battery, and the main positive wire (Brown) connected to the main switch.

If the problems still can't be solve, please contact your local distributor to get assistance.

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