

Super Multi DN Meter Instruction manual

Product number 05-05-0052

Adaptation model Monkey125 (JB02-1000001 ~)
Monkey125 Thailand model (MLHJB02)

Thank you very much for purchasing our products.

Thank you so you will comply with the following matters at the time of use. Before installation, please check your always kit contents. If there is a point of notice event, Please contact us the dealer of purchase.


◎ If the description, such as photos or illustration different with this part.

☆ Please read carefully before use ☆

- ◎ The use ignoring the instructions that are written in the manual, if the accident or damage has occurred, we can not assume any responsibility for compensation.
- ◎ This product installation and use, when a problem occurs to after market goods, guarantee other than this product, also can not assume any in any such matters.
- ◎ If it was the case or mounting that has been processed like a product, it will not be covered under warranty.
- ◎ It is not possible to inquire of the combination of other manufacturers.
- ◎ This product is the above-mentioned vehicle exclusive goods. Is not possible attached to the other vehicle. Please note.
- ◎ Do not use gasoline or thinner (or any solvent) cleaning this product. There is a risk of deterioration of rubber and plastic parts.
- ◎ If you have any questions, please contact your local Takegawa dealer.
- ◎ Do not use LED, H.I.D. headlights or fog lamps kit made by other than our companies at the same time.
Some ballast / inverter (voltage converter) generates high-voltage noise that adversely affects the digital circuit, resulting in product failure or malfunction.
- ◎ Do not use with additional meters.
- ◎ Tire outer diameter correction function can increase or decrease the display speed, but improper setting may cause excess speed.
When using on public roads, please take at your own risk.
- ◎ Product and programs are subject to change and improvement without notice.
Even with the same product number, the operation and screen may slightly differ depending on the production time.

~ feature ~


- This multi-meter that doesn't require any special wiring processing, just replace a genuine meter and plug in.
Equipped with numerous functions such as speed, rotation speed, gear position, thermometer, fuel gauge, time display, battery voltage display, front wheel tire outer diameter correction, backlight color change, etc.
Also, since it can be installed at the same position as the genuine meter, exterior products (screen, etc.) installed at the same time as the stock meter can be used as they are.
- By adopting a analog type for tachometer (engine speed) display, it enhances the dress-up effect with excellent visibility.
- All meter operations and function settings can be performed with the included external switch.

 Note: setting the gear position

To set the gear position, both the speed signal and the engine speed signal must be input to the Super Multi DN meter. Therefore, it is require to learn gear display by chassis dynamo, free roller or actual driving. We recommend learning gear display by chassis dynamo or free rollers for safety reasons. Do not learn gear display on driving in the city because there are many traffic lights and traffic in the city. When performing in actual driving, select a safe place with good visibility and check the surroundings.

 Caution When the handling of ignoring this display, property damage and human shows the assumption of what injury.

- When performing the work, etc., be sure during the cold (when the engine and the muffler is cold). (It may cause burns.)
- When performing the work, it should be made to prepare the tools for the job. (Breakage of parts, it may cause injury.)
- Do the work must always specified torque using a torque wrench. (Damage of bolts and nuts, and cause of dropout.)
- The product and the frame, might have edges or protrusions. Please go to protect your hands when you work. (It may cause injury.)
- Be sure to each part inspection before operation, check the loosening of the threaded portion, be sure to securely tighten the specified torque if there is loose. (It may cause detachment of the parts.)

 Warning When the handling of ignoring this display people died, shows the contents of the serious injury possibility is assumed.

- During operation, when an abnormality occurs, immediately stop the vehicle in a safe place, please stop running. (It may lead to an accident.)
- When performing the work, do the work safely stabilize the vehicle in a horizontal location.
(There is a risk of injury vehicle collapsed while working.)
- Inspection, maintenance, the instruction manual or, inspection methods such as service manuals, to protect the way, should be done correctly. (unsuitable inspection and maintenance, there is a risk that result to an accident.)
- When carrying out the inspection and maintenance, etc., if found damaged parts, replace the damaged parts to avoid possible to reuse the parts. (There is a risk that lead to accidents Continued use.)
- Plastic bags of product packaging, you can either be stored in a place that is out of reach of children, it should be discarded.
(When the children or wearing, there is a risk of suffocation.)
- Do not operate the switch while driving. (It may lead to an accident.)

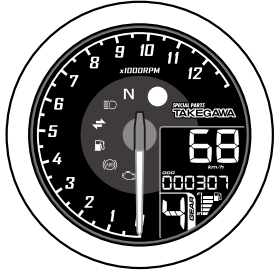
- ◎ Please note. Performance up, the design change, the product and the price in the cost up, etc. are subject to change without notice.
- ◎ Please be informed that we shall be held harmless against any claim against us whatsoever arising out of use of the products in racing and the like.
- ◎ Keep this manual stored until this product is discarded.

SPECIAL PARTS
TAKEGAWA

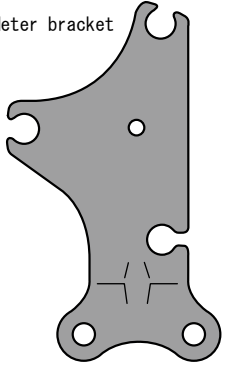
CONTACT Address : 3-5-16 Nishikiorihigashi Tondabayashi Osaka JAPAN
TEL: +81-721-25-1357 FAX: +81-721-24-5059 e-mail: english@takegawa.co.jp URL: http://www.takegawa.co.jp
Please contact with your name and country name provided. (Only English please)

Product content

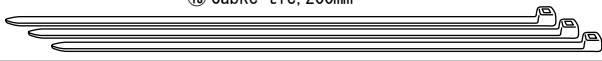
① Meter body



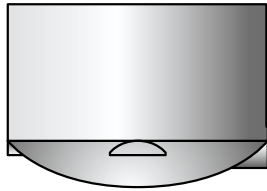
② Meter bracket



⑬ Cabke tie, 200mm



③ Meter cover



⑧ Flat head screw M5



⑨ Cushion rubber



⑩ Cushion collar



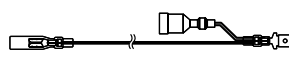
⑪ Washer for M5



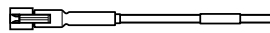
⑫ Nut M5



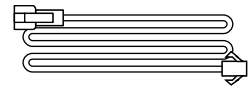
④ RPM code B (550mm)



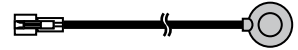
⑤ Stick temperature sensor



⑥ Temperature sensor connection cord (900mm)



⑦ External switch



Number	Product content	Quantity	Item Number
1	Meter body	1	—
2	Meter bracket	1	—
3	Meter cover	1	—
4	RPM code B (550mm) for IG connection	1	090-00-0063
5	Stick temperature sensor	1	07-04-0553
6	Temperature sensor connection cord, 900mm	1	07-04-0554
7	External switch	1	00-05-0070
8	Flat head screw M5	1	—
9	Cushion rubber	3	—
10	Cushion collar	3	—
11	Washer for M5	3	—
12	Nut M5	3	—
13	Cabke tie, 200mm	3	00-00-0269 (10 pcs)

※Please order in the repair parts are always repair part number.
If it is not the part number order, you may not be able to order. Please be forewarned.
It should be noted, in the case of parts that can not be separately shipment,
please order a set part number.

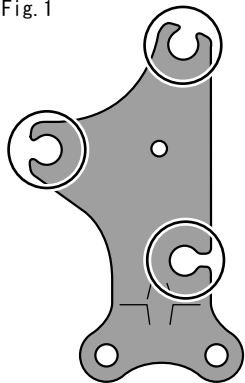
Fixing the meter body



Warning Do the work must always specified torque using a torque wrench. (Damage of bolts and nuts, and cause of dropout.)

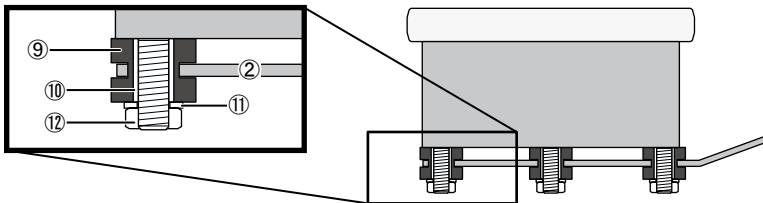
■ Fixing the meter body and meter bracket

Fig. 1



Attach the ⑨ cushion rubber to the ② meter bracket.
Securely install the ② meter bracket on the groove in the center of the ⑨ cushion rubber. (3 locations/ Fig. 1)
After mounting the cushion rubber on the bracket, insert the ⑩ cushion collar into each ⑨ cushion rubber and insert the fixing bolt on the meter body.
Install ⑪ washer M5 on each bolt and fix with ⑫ nut M5. Please see (Fig. 2) and confirm the mounting position and order.
Adjust the ⑨ cushion rubber angle before tightening the ⑫ nut M5. Adjust the flat surface according to the outer circumference of the meter as shown in Fig. 3.
※Cushion rubber adjustment is performed to prevent interference when the meter cover is installed. Tighten ⑫ nut M5 after adjustment
⚠ Note: Be sure that you protect specified torque. Nut M5 Torque : 3N · m (0.3kgf · m)

Fig. 2



⑨ Cushion rubber	
⑩ Cushion collar	
⑪ Washer for M5	
⑫ Nut M5	

■ Fixing the meter and meter cover

Fig. 3

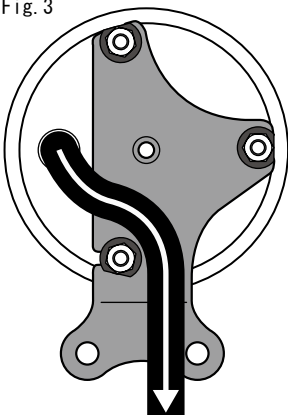
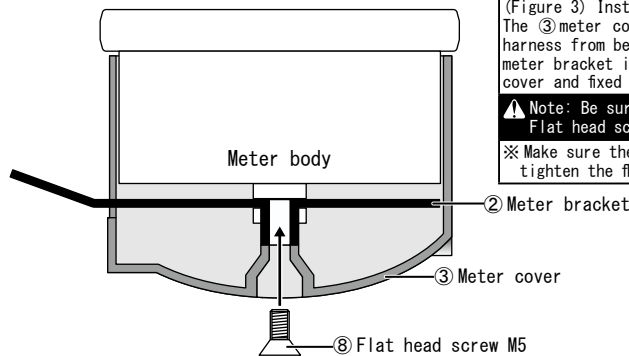
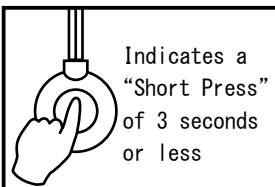


Fig. 4

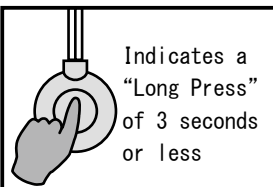


Attach the ③ meter cover to the product assembled above.
Route the harness of the meter body so that it does not interfere with the cushion rubber.
(Figure 3) Install the ③ meter cover with the harness.
The ③ meter cover has a notch to prevent the meter bracket and harness from being inserted, and the screw hole in the center of the meter bracket is aligned with the hole in the center of the ③ meter cover and fixed with the ⑧ flat head screw M5 (see Fig. 4).
⚠ Note: Be sure that you protect specified torque.
Flat head screw M5 Torque : 2N · m (0.2kgf · m)
※ Make sure the meter harness is not pinched by the meter cover and tighten the flat head screw.

Operation



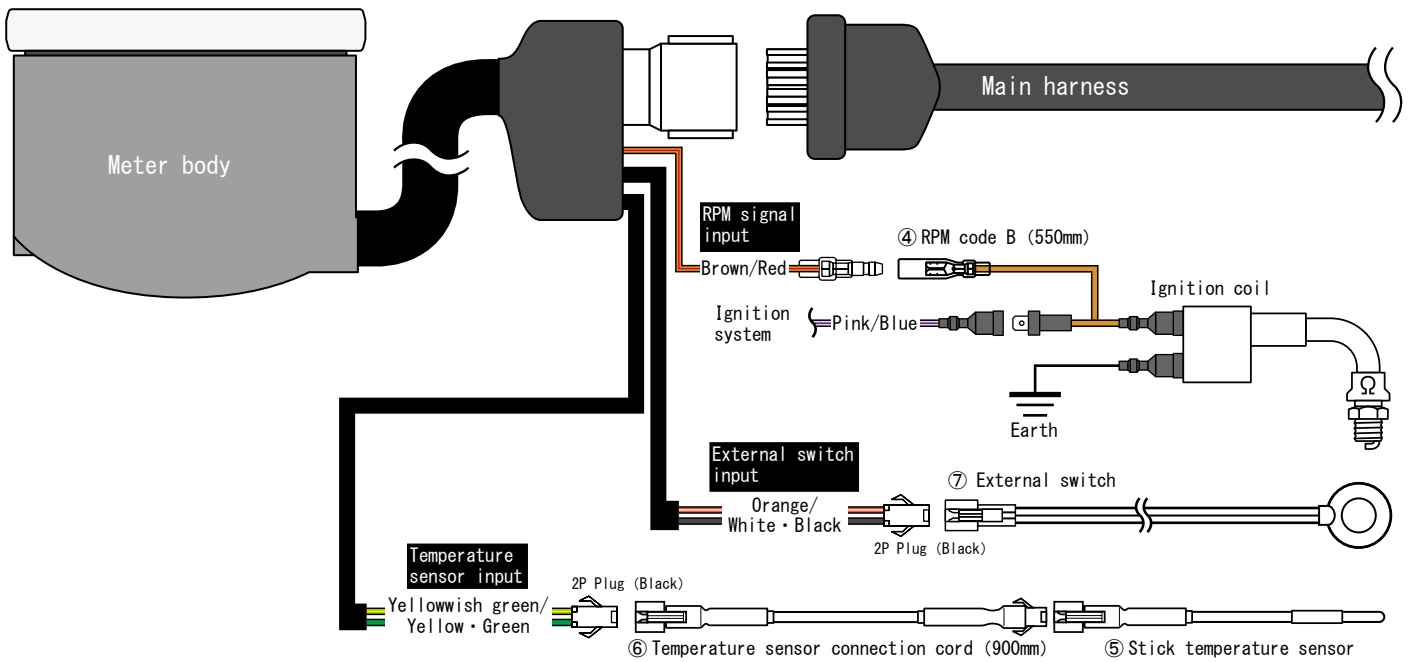
Indicates a "Short Press" of 3 seconds or less



Indicates a "Long Press" of 3 seconds or less

- All operations are performed with the external switch attached to the meter.
- Basic operation
The display feed and setting feed: "Short Press" for less than 3 seconds.
To move to the setting screen and set settings: "Long Press" for more than 3 seconds
- Icon display ※ "Short Press" and "Long Press" are expressed by the icon display on the left.

Wiring diagrams



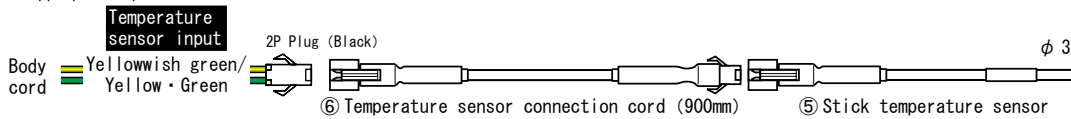
About temperature sensor input

Connect Temperature sensor cord and extension

- Thermometer measuring range: 0 ~ 150°C
- To measure oil temperature, sensor adapter (optional) are required.
- Please see optional parts in our catalog.
- The temperature sensor can be used as an outer air temperature meter by fixing the sensor to an appropriate position.

Please fix the wiring to the frame and body harness using wiring tape and zip-tie so that it will not break due to interference caused by steering operation or rubbing due to running vibration and contact with hot engine parts.

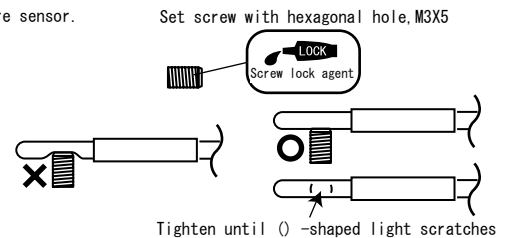
When the sensor is not connected (disconnected), the value will show as [- - - °C]



The optional drain bolt and set screw included with the adapter are used to secure the stick temperature sensor. Apply a small amount of screw locking agent to the set screw to prevent it from falling off.

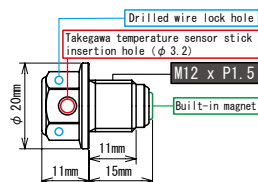
If it breaks, it will be act same as a broken or shorted cord.
 Display at disconnection: [- - - °C]
 Display at short circuit: [150.0°C]

Note If the sensor part is deformed greatly by tightening the set screw too much, the internal electronic components may be damaged.



Thermometer optional parts

- Drain bolt with magnet (M12xP1.5)
For Monkey 125 (JB02)

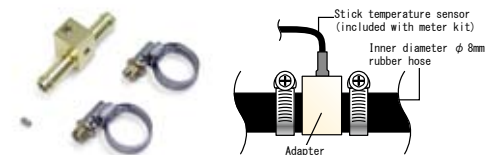


A strong magnetic drain bolt will pick iron powder in the engine oil. As a result, iron powder in the oil is reduced and the engine oil's inherent stable lubrication performance can be demonstrated. In addition, Takegawa aluminum drain bolts have a safety wire lock hole and a stick temperature sensor insertion hole. The temperature at the drain bolt can be measured by attaching the stick temperature sensor to the drain bolt and connecting it to our Super Multi DN meter. The drain bolt body is made from billet aluminum and colored anodized.
 Color: Silver, Black, Blue, Red.

- The magnet is firmly fixed with "swage"
- Can be interchangeable with various genuine drain bolts.

Oil thermometer adapter

Monkey 125 (JB02) fitted with Takegawa oil cooler kit (rubber hose)



Adapter with stick temperature sensor insertion hole for rubber hose (inner diameter φ 8mm) oil cooler kit. Place this adapter between the rubber hose connecting the oil outlet and the oil cooler. The temperature at the oil line (adapter part) can be measured. Since the temperature sensor is not in contact with oil directly, its temperature at the adapter part, but you can see it as a reference of oil temperature. By connecting the stick temperature sensor attached to this product, you can check the temperature on the LCD screen in the meter.

Product content	Product number
Drain bolt with magnet: M12 P1.5	Silver 02-09-0010 Blue 02-09-0012 Black 02-09-0011 Red 02-09-0013
M12 Sealing washer	00-00-0140
Inner diameter φ 8mm Oil cooler hose adapter	07-04-0521

■ Mounting procedure ※ Please refer to the Genuine Service Manual for detailed mounting methods and specified torques that are not specifically described.

▲ Note
To record the mileage, make a note of the mileage before replace the genuine meter.

You can also see the manual P2 for how to install the meter body and meter bracket.

■ Remove genuine speedometer

Remove the left and right bolts at the bottom of the headlight unit.



Remove the headlight unit from the bottom and remove the top nail.



Disconnect the headlight unit.



Remove the two headlight bracket bolts that hold the headlight case.



Remove one bolt in the headlight case.



Move the headlight case and remove the genuine meter cover mounting bolt, cover and coupler.

▲ Note
When moving the headlight case, be careful not to apply excessive force to the harness.



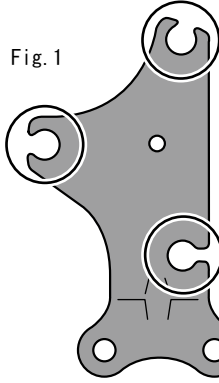
Remove two genuine meter mounting bolts and remove the genuine meter.



■ Fixing the meter body and meter bracket

Attach the ⑨ cushion rubber to the ② meter bracket. Securely install the ② meter bracket on the groove in the center of the ⑨ cushion rubber. (3 locations/ Fig.1)

Fig. 1



After mounting the cushion rubber on the bracket, insert the ⑩ cushion collar into each ⑨ cushion rubber and insert the fixing bolt on the meter body.

Install ⑪ washer M5 on each bolt and fix with ⑫ nut M5. Please see (Fig. 2) and confirm the mounting position and order.

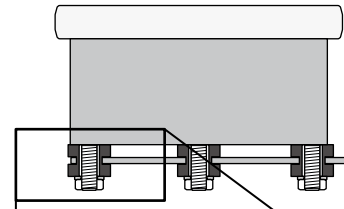
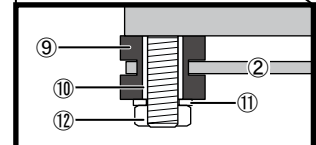


Fig. 2



Adjust the ⑨ cushion rubber angle before tightening the ⑫ nut M5. Adjust the flat surface according to the outer circumference of the meter as shown in photo. Cushion rubber adjustment is performed to prevent interference when the meter cover is installed. Tighten ⑫ nut M5 after adjustment.

▲ Note: Be sure that you protect specified torque.

Nut M5
Torque : 3N · m (0.3kgf · m)

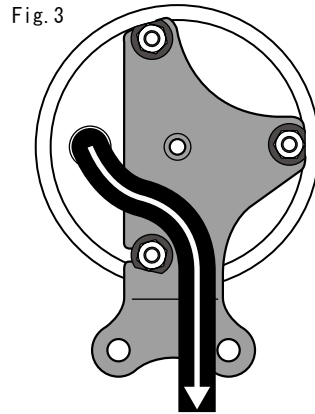
Align the flat surface with the outer circumference of the meter



■ Fixing the meter and meter cover

Route the harness of the meter body so that it does not interfere with the cushion rubber. (Figure 3) Install the ③ meter cover with the harness.

Fig. 3



The ③ meter cover has a notch to prevent the meter bracket and harness from being inserted

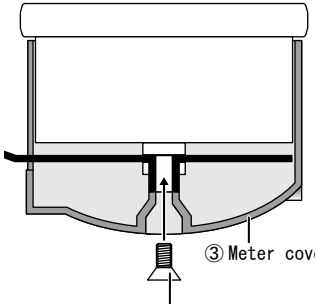


The screw hole in the center of the meter bracket is aligned with the hole in the center of the ③ meter cover and fixed with the ⑧ flat head screw M5 (see Fig. 4). Make sure the meter harness is not pinched by the meter cover and tighten the flat head screw.

▲ Note: Be sure that you protect specified torque.

Flat head screw
Torque : 2N · m (0.2kgf · m)

Fig. 4



⑧ Flat head screw M5
Attach the meter bracket with two genuine bolts.



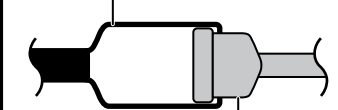
▲ Note: Be sure that you protect specified torque.

Genuine bolt
Torque : 10N · m (1.0kgf · m)

Please connect the ④ RPM code B, ⑦ external switch, and ⑤ stick temperature sensor with reference to the wiring manual P3. Plug in the main harness and meter harness. Insert the boots of the main harness into the boots on the meter harness side as shown in the photo.

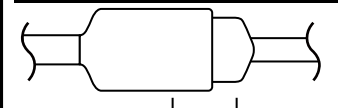


Meter side boots

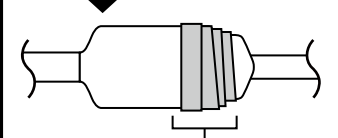


Main harness side boots

▲ Note
Wrap the wiring tape so as to cover the joint of the boot to protect from water.

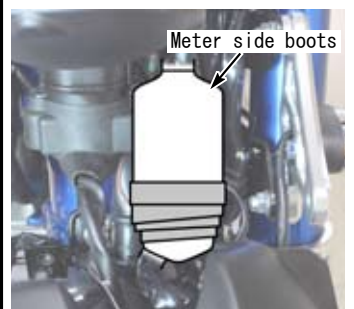


Joint of the boot



Waterproofing by wrapping wiring tape

Route the main harness and meter harness.
Reference photo below



Meter side boots

Attach the headlight case and headlight unit in reverse order.

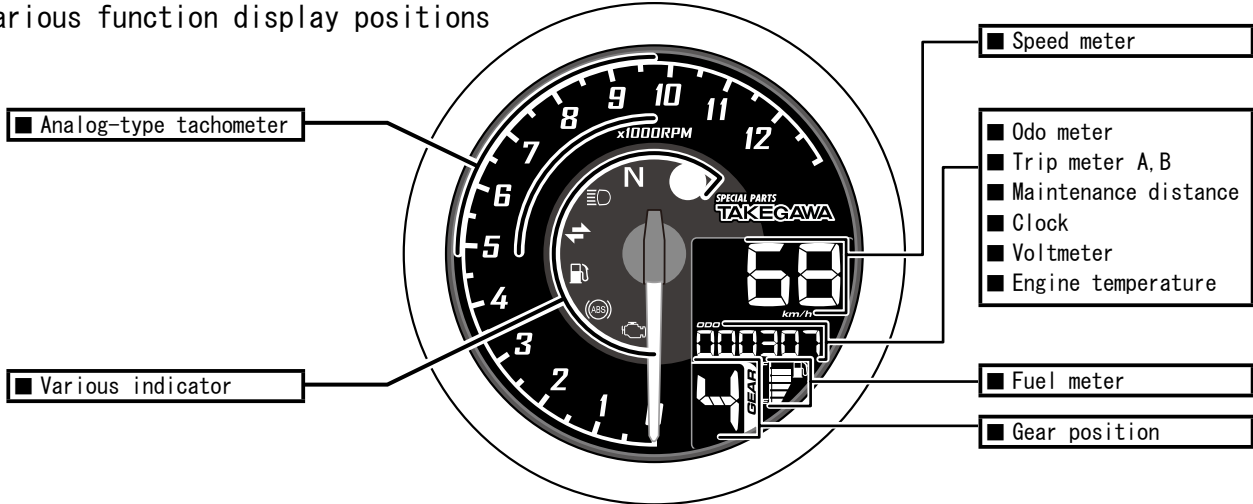
▲ Note
Be careful not to pinch the meter harness in the headlight case. It may cause disconnection or poor contact.

■ Place external switch

Attach the external switch connected to the meter harness. We attach the external switch to the back of the R. handlebar switch.

※ The external switch is not completely waterproof. There is no problem with a little water wet, but please stick the switch in a place where rainwater does not hit directly.

■ Various function display positions



■ Various function list setting method number

	Speed meter	Display range:0 ~ 360km/h	
		Tire outside dimensions setting	Setting unit:1% Setting range:50 ~ 210% Settings → call number ④
		Speed warning light	Setting range:30 ~ 360km/h Setting unit:1km/h Settings → call number ⑧
	Tachometer	Display range:0 ~ 13000rpm	
		Engine speed warning light	Setting range:1000 ~ 13000rpm Setting unit:100rpm Settings → call number ⑧
		Ignition setting	Setting range : 0.5 · 1 ~ 24 : Hi Act · Lo Act Settings → call number ⑤
	Odo meter	Display range:0 ~ 999999km (Returns to 0 when out of range)	Settings → call number ⑪
	Trip meter A, B	Display range:0 ~ 9999.9km (Returns to 0 when out of range)	Settings → call number ⑫⑬
	Maintenance distance	Setting range:500 ~ 16000km Setting unit:100km	Settings → call number ⑨
		Maintenance distance (notification mode)	Settings → call number ⑭
	Gear position	Content of display All gear display OFF Gear indicator registration function by automatic learning mode	Settings → call number ⑥
	Fuel meter	Display range:6 Step	
		Fuel sensor resistance value preset :100 Ω · 250 Ω · 270 Ω · 390 Ω 510 Ω · 1200 Ω	Settings → call number ⑦
		Custom resistance value setting Resistance range : 1 ~ 1500 Ω	
		Remaining fuel warning light	Settings → call number ⑧
	Backlight	Dimmer Setting range:1/5(dark) ~ 5/5(bright)	
		Color Setting range:White, Red, Orange, Yellow, Green, Blue, Light Blue, Purple	Settings → call number ③
	Voltmeter	Display range:8 ~ 18V	
		Voltage warning light	Setting range:8 ~ 18V Setting unit:0.1V Settings → call number ⑧
	Temp gauge	Display range:0 ~ 150°C	The temperature at the drain bolt can be measured by Takegawa drain bolt(optional)
		Temperature warning light	Setting range:60 ~ 150°C Settings → call number ⑧

	Clock	Display method :12 or 24 hours	Settings → call number ①

Indicator	Icon
Warning light (red light)	
Neutral lamp (green light)	
High beam lamp (blue light)	
Turn lamp (green light)	
Remaining fuel level warning lamp (yellow light)	
ABS lamp (yellow light)	
Engine check lamp (yellow light)	

Meter body size	φ 95 X 48mm
Meter body weight	250g
Operating voltage	DC12V
Operating temperature limit	-10 ~ +60°C

Switching main screen LCD display

■ You can see each function displayed on the LCD screen by short-pressing the meter display switching button.

Odo meter

Trip meter A
Long press to clear the value.
Call number ⑫

Trip meter B
Ⓢ Can be hidden with a.1
Long press to clear the value.
Call number ⑬

Maintenance distance

Maximum record
Long press to clear the value.
Gear display at maximum engine speed.
⚠ Do not drive with the maximum
Warning record display screen.

Voltmeter

Temperature

Clock

“Short Press” “Long Press” for 3 seconds

How to enter the adjustment screen and how to switch between the various setting screens

■ Various settings can be changed on the adjustment screen.

※ To enter the adjustment screen, the LCD screen function display must be set to “ODO (Odometer)” by short pressing.

■ After adjusting to “ODO (Odometer)”, “Long Press” the meter display switching button to enter the adjustment screen.

■ Switch from the adjustment screen to the all “Clock” setting screen. Switching from a1 to a11 can be switched by a “Short Press”.

■ Further “Long Press” to enter the setting screen for the function to be selected. Switching items within the selected function is a “Short Press”. Decision is a “Long Press”.

※ adj display blinks at any time

※ a1 display blinks at any time

※ a2 display blinks at any time

Switch from the adjustment screen to the a1 “Clock” setting screen.

“Odometer display with a “Short Press”

“Long Press” to display the adjustment screen
If you do not press the button for a certain time, it automatically return to the main screen.

“Clock” Setting screen display
“Long Press” for more settings
Settings → call number ①

“Speed · Temperature unit” Setting screen display
“Long Press” for more settings
Settings → call number ②

※ a7 display blinks at any time

※ a6 display blinks at any time

※ a5 display blinks at any time

※ a4 display blinks at any time

※ a3 display blinks at any time

“Fuel” Setting screen display
“Long Press” for more settings
Settings → call number ⑦

“Gear display” Setting screen display
“Long Press” for more settings
Settings → call number ⑥

“Ignition setting” Setting screen display
“Long Press” for more settings
Settings → call number ⑤

“Tire outside dimensions” Setting screen display
“Long Press” for more settings
Settings → call number ④

“Backlight” Setting screen display
“Long Press” for more settings
Settings → call number ③

※ a8 display blinks at any time

※ a9 display blinks at any time

※ a10 display blinks at any time

※ a11 display blinks at any time

Return to the main screen

“Warning light” Setting screen display
To move items within settings, long press for a “Short press”
Various warning settings
Setting items of warning light to be used
Warning light setting
“Long Press” for more settings
Settings → call number ⑧

“Maintenance distance” Setting screen display
“Long Press” for more settings
Settings → call number ⑨

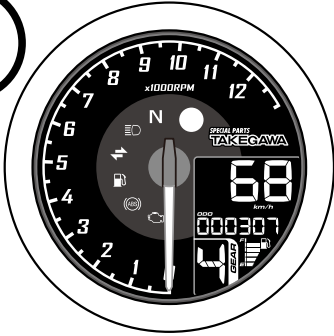
“ABS display” Setting screen display
“Long Press” for more settings
Settings → call number ⑩

“Distance” Setting screen display
To move items within settings, long press for a “Short press”
Total distance setting
Custom odd meter setting
“Long Press” for more settings
Settings → call number ⑪

⚠ Setting completion method Setting is completed when I turn off a meter power supply with Adjust screen or Main screen after changing each setting.

① a1 Time setting

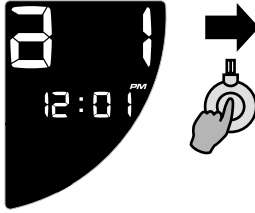
1



■ After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.

■ "Long Press" in the a1 "Clock" setting screen to enter the a1 "Clock" setting screen.

※ a1 display blinks at any time



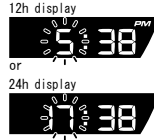
Switches from the adjustment screen to the a1 "Clock" setting screen. "Long Press" to enter setting screen.

■ a1 "Clock" setting screen



12h or 24h flashes when entering the setting screen. Select the 12h or 24h display method. Switch between 12h and 24h with a "Short Press". Decision is "Long Press".

※ 12h - 24h display blinks at any time



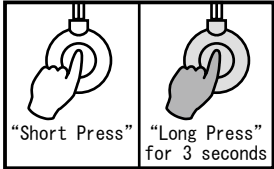
The (hour) time flashes and can be set. "Short Press" to set (hours) and "Long Press" to confirm. After setting (minutes) flashes and can be set in the same way. "Long Press" after setting.

When 12h display is selected, either AM or PM will flash simultaneously. Check AM and PM blinking when setting time to set whether it is AM or PM.

※ Selected part flashes at any time

a1 Return to the "Clock" setting screen.

Move to the last item with a "Short Press" to return to the main screen



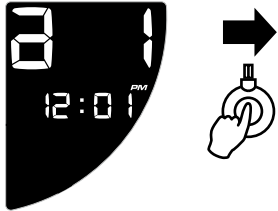
② a2 Speed - temperature unit setting

2

■ After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.

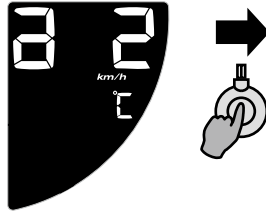
■ a1 Press briefly in the "Clock" setting screen to switch to the a2 "Speed/ temperature unit" setting screen then "Long Press" to enter the setting screen

※ a1 display blinks at any time



Switches from the adjustment screen to the a1 "Clock" setting screen. "Short Press" to switch to a2 "Speed/ temperature unit" setting screen.

※ a2 display blinks at any time



"Long Press" to enter setting screen

■ a2 "Speed/ temperature unit" setting screen



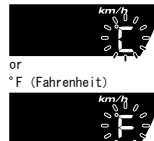
※ km/h · MPH display blinks at any time

When entering the setting screen, the km / h or MPH display blinks.

Select the speed unit (km / h or MPH) display. Switch between km / h and MPH with a "Short Press". Decision is "Long Press".

⚠ Be careful. For Japan, select km / h for metric.

°C (Celsius)

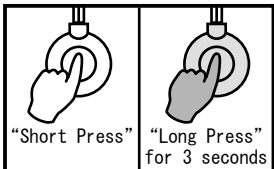


※ Selected part flashes at any time

After determination, the display of °C (Celsius) or °F (Fahrenheit) flashes.

Select the display method of temperature unit (°C or °F) here. Switch between °C and °F with a "Short Press". Decision is "Long Press".

⚠ Be careful. Select °C (Celsius).



a2 Return to the "Speed/ temperature unit" setting screen.

Move to the last item with a "Short Press" to return to the main screen

③ a3 Backlight setting

3

■ After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.

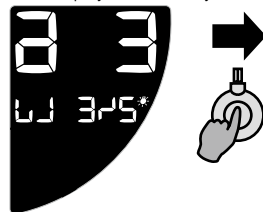
■ a1 "Clock" setting screen, "Short Press" to switch to a3 "Backlight" setting screen "Long Press" to enter setting screen.

※ a1 display blinks at any time



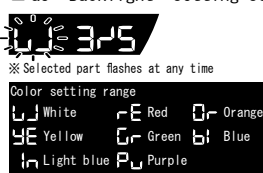
Switches from the adjustment screen to the a1 "Clock" setting screen. "Short Press" to switch to a3 "Backlight" setting screen.

※ a3 display blinks at any time



"Long Press" to enter setting screen

■ a3 "Backlight" setting screen



※ Selected part flashes at any time

Color setting range
 W White R Red O Orange
 Y Yellow G Green B Blue
 L Light blue P Purple

When entering the setting screen, the backlight color will flash.

Select the backlight color here. (8 colors) Switch the backlight color with a "Short Press". Decision is "Long Press".

Color setting (8 colors)
 White · Red · Orange · Yellow · Green · Blue · Light Blue · Purple



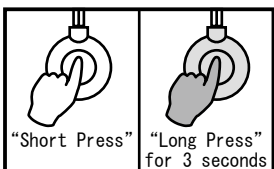
※ Selected part flashes at any time

The backlight brightness display flashes after determination. Select the backlight brightness. Change brightness with a "Short Press". Decision is "Long Press".

Setting range : 1/5 (dark) ~ 5/5 (bright)
 Setting unit : The brightness changes by 20% in one step

a3 Return to the "Backlight" setting screen.

Move to the last item with a "Short Press" to return to the main screen



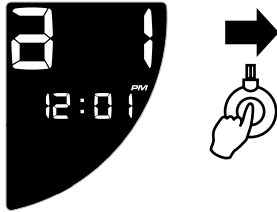
④ a4 Tire outside dimensions setting

4

- After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.
- at "Clock" setting screen, "Short Press" to switch to a4 "tire outer diameter" setting screen "Long Press" to enter setting screen.

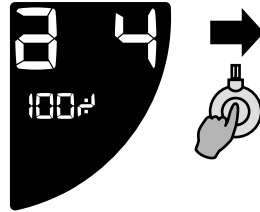
※ Speed display by setting the tire outer diameter
 Genuine meter shows slightly higher speed than actual speed.
 If you want to display the same speed as a genuine meter, you need to set it to 107%. If you want a value close to the actual speed display, you need to set it to 100%.
 When changing the sprocket T number and tire size, calculate the percentage by referring to the table below.

※ a1 display blinks at any time



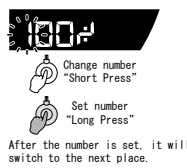
Switches from the adjustment screen to the a1 "Clock" setting screen. "Short Press" to switch to a4 "Tire outer diameter" setting screen.

※ a4 display blinks at any time



"Long Press" to enter setting screen

■ a4 "tire outer diameter" setting screen



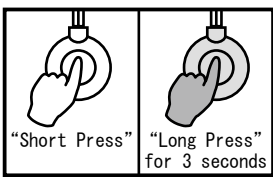
※ Selected part flashes at any time.

When entering the setting screen, the number at the 100 will flash.
 Enter tire outer diameter (%) here.
 Change the flashing digit by a "Short Press".
 "Long Press" to set number.
 When it is set, it switches to the next digit and flashes. Setting is completed when the last place is set (long press).

For stock genuine tires and sprockets
 No setting is required at 100%. Set to 107% when using the same meter specification as the stock meter.

Setting range: 50 ~ 210%
 Obtain the "tire outer diameter % (percentage)" using the following calculation method and enter it on the setting screen.

※ Calculation method varies depending on vehicle conditions. Please check the vehicle conditions of the calculation method and obtain the "tire outer diameter % (percentage)" with the calculation method that suits the conditions.



a4 Return to the "tire outer diameter" setting screen.

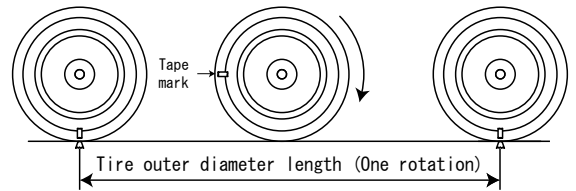
Move to the last item with a "Short Press" to return to the main screen

■ Condition A
 Click here if you want to use tires (brand tires other than stock genuine tires) whose brand and size are different

Click here for "Condition A" →

■ Condition A Calculation method of tire outer diameter % (percentage)

If the tire brand or size is changed from stock genuine and the outer diameter changes, please measure the outer diameter.



Calculation example)
 Outer diameter of the tire to be changed: 145 cm / the original tire outer diameter: 152 cm,
 $145 \div 152 \times 100 = 95.39 \dots$ enter 95%

$$\frac{\text{The outer diameter of the tire to be changed}}{\text{The outer diameter of stock genuine tire}} \times 100 = \text{Correction value}$$

example) 145cm example) 152cm example) ≈ 95

※ When using the same meter specifications as Genuine meter.

$$\frac{\text{The outer diameter of the tire to be changed}}{\text{The outer diameter of stock genuine tire}} \times 107 = \text{Correction value}$$

example) 145cm example) 152cm example) ≈ 102

■ Condition B
 Click here if you want to change tire and the tooth of sprockets at the same time.
 Genuine(stock)drive sprocket 15T
 Genuine(stock)driven sprocket 34T
 (Applicable except for the number of sprockets above)

Click here for "Condition B" →

■ Condition B Calculation method of tire outer diameter % (percentage)

First, calculate the "outer diameter percentage" as in "condition A" above.
 Tire outer diameter to be changed \div Genuine(stock) tire outer diameter $\times 100 =$ Correction value

※ When using the same meter specifications as Genuine meter

The outer diameter of the tire to be changed \div The outer diameter of stock genuine tire $\times 107 =$ Correction value
 Calculation example 1)

Outer diameter of the tire to be changed: 145 cm / the original tire outer diameter: 152 cm,
 $145 \div 152 \times 100 = 95.39 \dots$ enter 95%

Next, calculate the secondary reduction ratio of the sprocket to be changed.

Driven sprocket \div drive sprocket = secondary reduction ratio

EX: genuine(stock) driven sprocket: 34T / drive sprocket : 15T, the secondary reduction ratio is "2.267"

Calculation example 2)

When changing the drive sprocket from 15T to 16T with the same driven sprocket 34T
 $34T$ (Genuine parts) $\div 16T = 2.125$ the secondary reduction ratio is "2.125"

$$\frac{\text{Secondary sprocket ratio of genuine (stock) sprocket}}{\text{Secondary reduction ratio of sprocket to be changed}} \times \text{Outer diameter (\%)} = \text{Correction value}$$

example) 2.267 example) 2.125 example) 95 example) ≈ 101

If you install our 4-speed cross mission or 5-speed cross mission with our speed sensor kit, make settings at the speed sensor kit.

If you are entering 100% or 107% (stock meter display) with stock tires / sprockets, change the settings at the speed sensor kit.
 If you are using tires with brands or sizes that are different from genuine(stock) tires and you are entering the tire diameter (%), change the setting at the speed sensor kit.
 If you change the tire and the sprocket at the same time and already enter the outer tire diameter (%), re-calculate and enter by the calculation method of "different brands and sizes" then change the setting at the speed sensor.

⑤ a5 Ignition setting

5

- After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.
- a1 At a1 "Clock" setting screen, "Short Press" to switch to a5 "Ignition setting" setting screen, "Long Press" to enter setting screen.

※ a1 display blinks at any time



※ a5 display blinks at any time

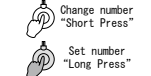


Switches from the adjustment screen to the a1 "Clock" setting screen. "Short Press" to switch to a5 "Ignition setting" setting screen.

"Long Press" to enter setting screen

■ a5 "Ignition setting" setting screen

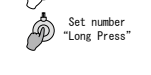
※ Selected part flashes at any time



After the number is set, it will switch to the next signal type setting.



※ Selected part flashes at any time



When the ignition setting screen is displayed, a number (number of signals) such as 0.5 flashes. Change the blinking number (number of signals) with a "Short Press". "Long Press" to set display method

Number of signals 0.5 · 1 ~ 24

⚠ Be careful. For Monker125, it will be "0.5".

"Long Press" to confirm and next signal type setting Here, "Hi Act" or "Lo Act" is displayed and flashes.

Change the display (Hi / Lo) with a "Short Press". "Long Press" to set display.

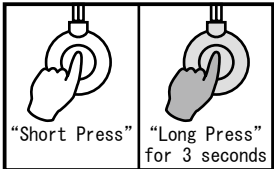
Signal type setting Hi Act Lo Act

⚠ Be careful. For Monker125, it will be "Hi Act".



a5 Return to the "Ignition setting" setting screen.

⏪ Move to the last item with a "Short Press" to return to the main screen



⑥ a6 Gear display setting

6

- After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.
- a1 "Short Press" on the "Clock" setting screen to switch to a6 "Gear display" setting screen, "Long Press" to enter the setting screen.

※ setting the gear position

To set the gear position, both the speed signal and the engine speed signal must be input to the Super Multi DN meter.

Therefore, it is required to learn gear display by "chassis dynamo, free roller" or "actual driving".

We recommend learning gear display by "chassis dynamo or free rollers" for safety reasons.

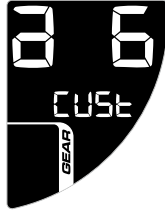
Do not learn gear display on driving in the city because there are many traffic lights and traffic in the city.

When performing in "actual driving", select a safe place with good visibility and check the surroundings.

※ a1 display blinks at any time



※ a6 display blinks at any time



■ a6 "Gear display" setting screen

CUST (Display)



or OFF (Hidden)

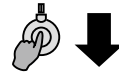


※ Selected part flashes at any time

Setting items flash when entering the setting screen. Gear display selection "CUST" (Display) / OFF (Hidden) and gear display learning.

Change the flashing setting item with a "Short Press". "Long Press" to confirm setting item.

Setting item CUST (display) OFF (Hidden)



Setting is completed when OFF (Hidden) is selected.

a6 Return to the "Gear display" setting.

Switches from the adjustment screen to the a1 "Clock" setting screen. "Short Press" to switch to a6 "Gear display setting" setting screen.

"Long Press" to enter setting screen

※ Be careful. The timing to enter the gear is instructed from the meter side. Maintain the specified speed until instructed to input gear (after learning the gear display).

※ LEARN display flashes at any time



"Short press" to switch to the standby start for learning the gear display.

※ 3 display blinks at any time



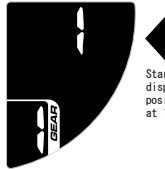
When "3" flashes, enter 3rd gear. Start learning 3-speed gear display ※ Keep specified speed until next gear input command

※ 2 display blinks at any time



When "2" flashes, enter 2nd gear. Start learning 2-speed gear display ※ Keep specified speed until next gear input command

※ 1 display blinks at any time



"1" flashes and learning of 1st gear display starts ※ Keep specified speed until next gear input command

Start learning gear display of gear position by starting at 1st gear

※ Go display blinks at any time



※ 4 display blinks at any time



When "4" flashes, enter 4th gear. Start learning 4-speed gear display ※ Keep specified speed until next gear input command Up to this point for a 4-speed, but keep running at the specified speed.

※ 5 display blinks at any time



"5" flashes. For 4 speed type, keep running at the specified speed. ※ By keep running at 4th speed, the meter will recognize that the 5th speed is not available.

※ d0nE display blinks at any time



"d0nE" flashes. After flashing, the display will return to the main screen. ※ When you return to the main screen automatically, the setting is complete.

When CUST (display) is selected by "Long Press" the setting screen is displayed and the LEARN character flashes.

If you "Short Press" here, the letters Go will flash and gear position "1" will be displayed.

This is the standby state for learning the gear display during "actual driving".

Now, you can start loading by running in 1st gear.

Important notes.

Learning gear display by actual driving

■ Cannot be set when the wheel is not rotating.

■ Cannot be set when the clutch disengaged.

■ Keep the rotation speed over 3000rpm for each gear.

The gear is set by stay in gear and maintaining the specified rotation speed. Once set, the next gear input instruction will be displayed. Do not input the next gear until instructed by the meter.

■ Cannot be set in half-clutch state. (except at start)

■ In the case of 4th gear, keep running for a certain period of time until the setting is completed after entering 4th gear. (over 3000rpm)

※ Notification of completion of automatic gear position reading setting

■ If the speed drops below the specified speed before putting the top gear, you need to start over from beginning.

The gear display learning starts when you start running at the first gear from the blinking "Go" (standby state).

The gear input instruction will be displayed from the meter after learning the gear then shift to the next gear.

After entering the final gear, keep driving for a while with maintaining the specified speed. After that, even if you are in 4th gear, the "5" will flash but you will keep running with 4th gear.

Finally, d0nE is displayed and the setting is complete.

When the setting is completed, the "Main Screen" automatically returns.

⑦ a7 Fuel setting

7

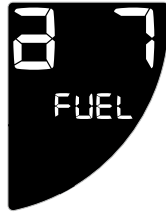
- After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.
- a1 "Clock" setting screen, "Short Press" to switch to a7 "Fuel" setting screen, then "Long Press" to enter setting screen.

※ a1 display blinks at any time



Switches from the adjustment screen to the a1 "Clock" setting screen. "Short Press" to switch to a7 "Fuel setting" setting screen.

※ a7 display blinks at any time

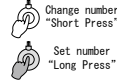


"Long Press" to enter setting screen

■ a7 "Fuel" setting screen



※ Selected part flashes at any time



After the number is set, it switches to the next user resistance value setting.

The preset resistance value is displayed when the fuel setting screen is displayed. A number (resistance value) such as "100" flashes. Change the blinking number (preset resistance value) with a "Short Press". "Long Press" to determine display method.

Preset resistance value

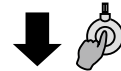
100 Ω 250 Ω 270 Ω 390 Ω 510 Ω 1200 Ω

⚠ Be careful.

For Monkey125, it will be "390 Ω".

※ Check the resistance again if there is a problem with the fuel display. In the display, Ω is not displayed but only a numbers.

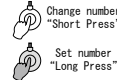
When you "Long Press" and hold to confirm, "CUST" is displayed and the next user resistance value is set. If there is no need to set the user resistance value, "Short Press" to return to the a7 "Fuel" setting screen



a7 Return to the "Fuel" setting screen.

⏪ Move to the last item with a "Short Press" to return to the main screen

■ a7 When using the a7 "User resistance value"



After the number is set, it switches to the next digit.



If you change the value by "Short Press" the preset resistance value, "CUST" will be displayed and the ext user resistance value will be set. Now you can select a value in the range of "1 to 1500 Ω". When entering the setting screen, the number in the 1000's digit blinks. Enter the resistance value here. Change the flashing digit by a "Short Press". "Long Press" to set number.

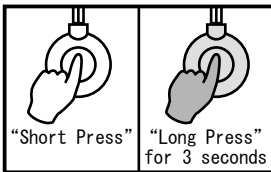
After it is set, it switches to the next digit and flashes. The last 1's place is set (long press), the setting is completed.

User resistance value setting : 1 ~ 1500 Ω



a7 Return to the "Fuel" setting screen.

⏪ Move to the last item with a "Short Press" to return to the main screen

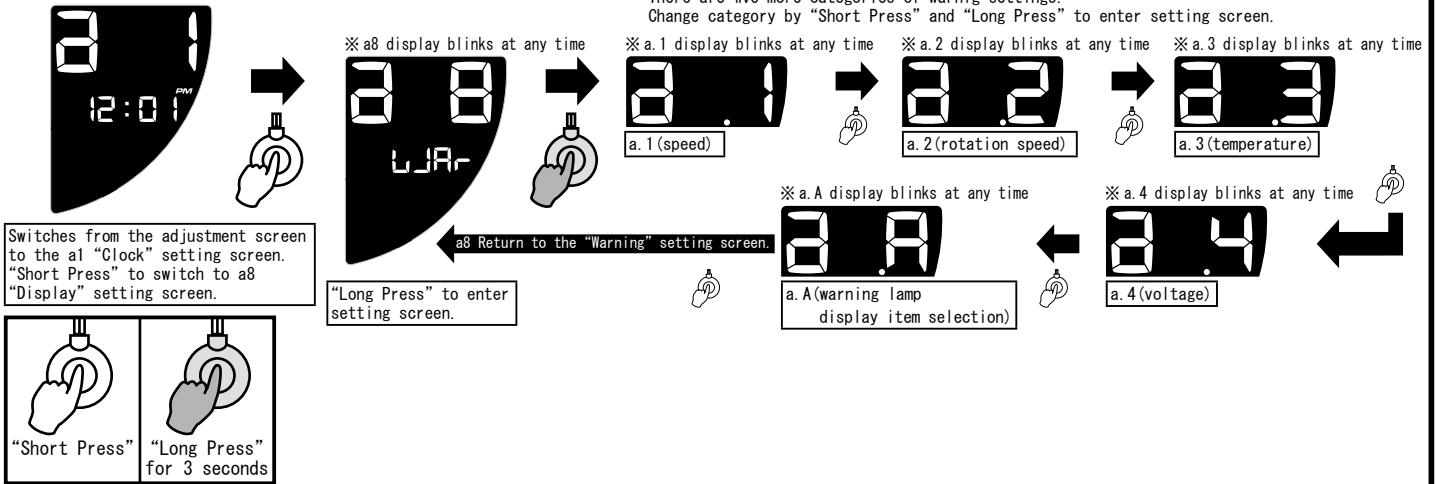


⑧ a8 Warning setting

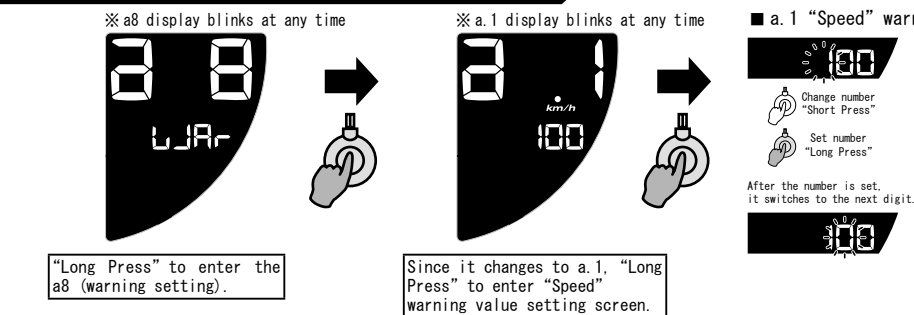
8

- After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.
- at "Clock" setting screen, "Short Press" to switch to a8 "Warning" setting screen, "Long Press" to enter setting screen. There are five categories of warning settings: "a.1 (speed), a.2 (rotation speed), a.3 (temperature), a.4 (voltage), and aA (warning lamp display item selection)". Change category by "Short Press" and "Long Press" to enter setting screen

There are five more categories of warnig settings.
Change category by "Short Press" and "Long Press" to enter setting screen.



Category a.1 Speed warning value setting



■ a.1 "Speed" warning value setting

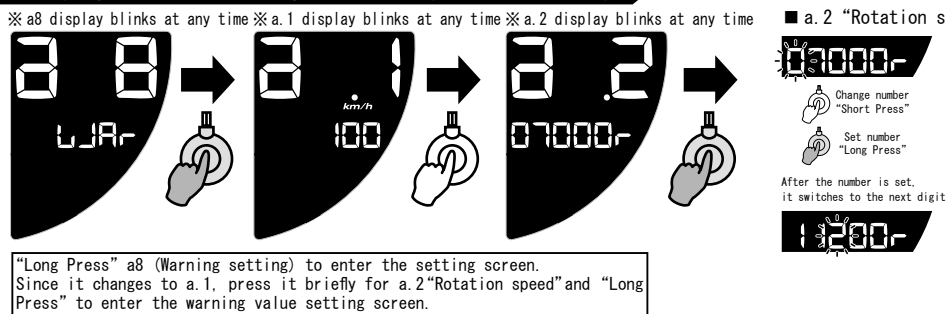
When entering the setting screen, the number of the 100 will flash.
Enter the speed warning value.
Change the flashing digit by a "Short Press".
"Long Press" to set number.
When it is set, it switches to the next digit and flashes.
Set the last digits "Long Press" to complete the setting and return to the a.1 (speed) category.

Warning value setting range : 30 ~ 360km/h
Setting unit : 1km/h

a.1 Return to the "Speed" setting screen.

Move to the last item with a "Short Press" to return to the main screen

Category a.2 Rotation speed warning value setting



■ a.2 "Rotation speed" warning value setting

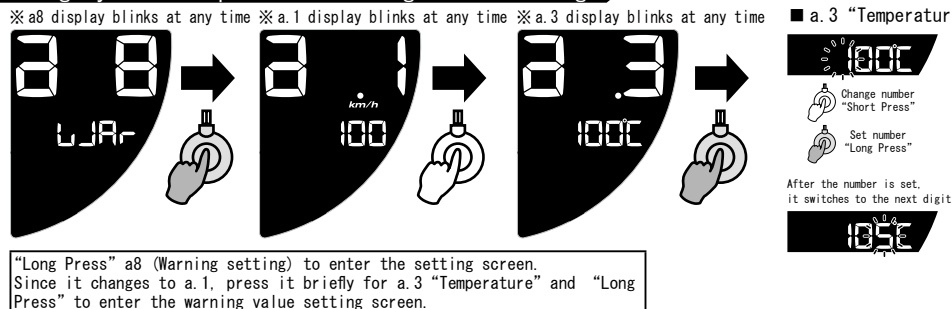
When entering the setting screen, the number of the place of 10000 digits blinks.
Enter the rotation speed warning value.
Change the flashing digit by a "Short Press".
"Long Press" to set number.
When it is set, it switches to the next digit and flashes.
When the last 100's digits set "Long Press", the setting is completed and it returns to the a.2 (rotation speed) category

Warning value setting range : 1000 ~ 13000rpm
Setting unit : 100rpm

a.2 Return to the "Rotation speed" setting screen.

Move to the last item with a "Short Press" to return to the main screen

Category a.3 Temperature warning value setting



■ a.3 "Temperature" warning value setting

When entering the setting screen, the number of the 100 will flash.
Enter the temperature warning value.
Change the flashing digit by a "Short Press".
"Long Press" to set number.
When it is set, it switches to the next digit and flashes.
setting is completed and it returns to the a.3 (temperature) category.

Warning value setting range : 60 ~ 150°C
Setting unit : 1°C

a.3 Return to the "Temperature" setting screen.

Move to the last item with a "Short Press" to return to the main screen

⑧ a8 Warning setting

8

- After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.
- at "Clock" setting screen, "Short Press" to switch to a8 "Warning" setting screen, "Long Press" to enter setting screen. There are five categories of warning settings: "a.1 (speed), a.2 (rotation speed), a.3 (temperature), a.4 (voltage), and aA (warning lamp display item selection)". Change category by "Short Press" and "Long Press" to enter setting screen.

There are five more categories of warnig settings.
Change category by "Short Press" and "Long Press" to enter setting screen.

Switches from the adjustment screen to the a1 "Clock" setting screen. "Short Press" to switch to a8 "Display" setting screen.

"Short Press" "Long Press" for 3 seconds

※ a8 display blinks at any time

※ a.1 display blinks at any time

※ a.2 display blinks at any time

※ a.3 display blinks at any time

※ a.A display blinks at any time

※ a.4 display blinks at any time

a.1 (speed)

a.2 (rotation speed)

a.3 (temperature)

a.4 (voltage)

a.A (warning lamp display item selection)

a8 Return to the "Warning" setting screen.

"Long Press" to enter setting screen

Category a.4 Voltage warning value setting

※ a8 display blinks at any time ※ a.1 display blinks at any time ※ a.4 display blinks at any time

"Long Press" a8 (Warning setting) to enter the setting screen. Since it changes to a.1, press it briefly for a.4 "Voltage" and "Long Press" to enter the warning value setting screen.

a.4 "Voltage" warning value setting

When entering the setting screen, the number of the place of 10 digits blinks. Enter the rotation speed warning value. Change the flashing digit by a "Short Press". "Long Press" to set number. When it is set, it switches to the next digit and flashes. When the last 0.1's digits set "Long Press", the setting is completed and it returns to the a.4 (voltage) category

Warning value setting range : 8 ~ 18V
Setting unit : 0.1V

a.4 Return to the "Voltage" setting screen.

Move to the last item with a "Short Press" to return to the main screen

Category a.A Warning lamp display item selection

※ a8 display blinks at any time ※ a.1 display blinks at any time ※ a.A display blinks at any time

"Long Press" a8 (Warning setting) to enter the setting screen. Since it changes to a.1, press it briefly for a.A "Warning lamp display item" and "Long Press" to enter the warning value setting screen.

a.A "Warning lamp display item" selection

Setting items flash when entering the setting screen. Select the item to turn on the warning light. Change the flashing setting item with a "Short Press". "Long Press" to confirm setting item. When you decide, it will switch to the next "Flashing method selection".

Setting item
SPEED (Speed)
rPm (Engine RPM)
tEnP (Temperature)
VOLT (Voltage)
L-FUEL (Fuel)
S-Odo (Distance)
t-Gear (Top gear)

※ By selecting an item, the warning indicator lights up (flashes).

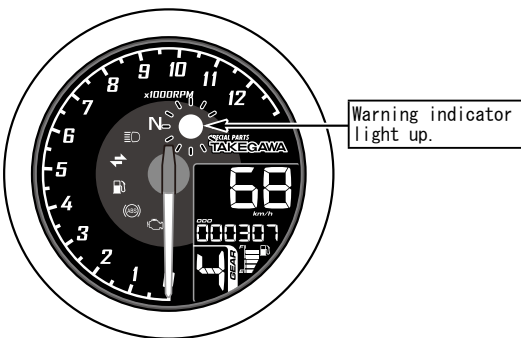
"Long Press" to confirm setting item. When you decide, it will switch to the next "Flashing method selection".

When switching to flashing method selection, either "L", "S", or "F" displayed in the gear position section flashes. Select how to turn on the warning light. Change the flashing lighting method with a "Short Press". "Long Press" to set lighting method. When you decide, it will switch to the "warning lighting item" screen.

Setting item
L (Light up)
S (Slow flashing pattern)
F (Fast flashing pattern)

a.A Return to the "Warning lamp display item" screen.

Move to the last item with a "Short Press" to return to the main screen



11 a11 Distance

11

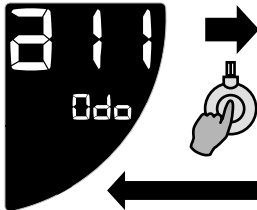
- After adjusting the LCD screen function display to "ODO(odometer)", "Long Press" the meter display switching button to enter the adjustment screen. Switches from the adjustment screen to the a1 "Clock" setting screen.
- a1 "Clock" setting screen, "Short Press" to switch to a11 "Distance" setting screen, "Long Press" to enter setting screen. There are two categories of display settings: a.1 (Total distance) and a.2 (Custom odo meter setting) Change category by "Short Press" and "Long Press" to enter setting screen.

※ a1 display blinks at any time



Switches from the adjustment screen to the a1 "Clock" setting screen. "Short Press" to switch to a11 "Distance" setting screen.

※ a11 display blinks at any time



"Long Press" to enter setting screen

There are two categories of display settings.

Change category by "Short Press" and "Long Press" to enter setting screen.

※ a.1 display blinks at any time



a.1 (Total distance)

※ a.2 display blinks at any time

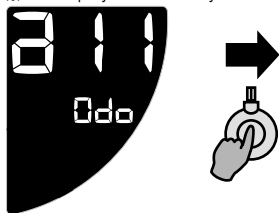


a.2 (Custom odo meter setting)

a10 Return to the "distance" setting screen

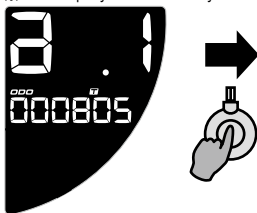
Category a.1 Total distance

※ a11 display blinks at any time



"Long Press" in the a11 (Distance) screen to enter the setting screen.

※ a.1 display blinks at any time



Since it changes to a.1, "Long Press" to enter total distance screen.

■ a.1 "Total distance"



Here you can check the distance after installing this meter. When the confirmation is completed, the next item screen will change with a "Short Press".

⚠ Be careful. The total distance (odometer) display cannot be turned off or adjusted.

Display range : 0 ~ 999999km

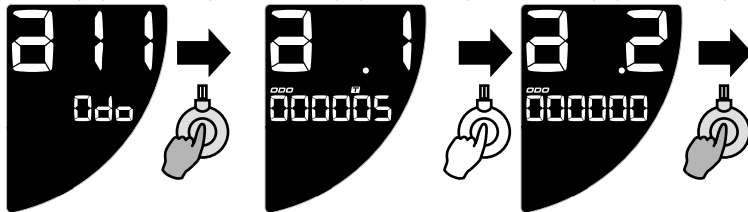


a.2 "Custom odo meter setting" screen.

⏪ Move to the last item with a "Short Press" to return to the main screen

Category a.2 Custom odo meter setting

※ a11 display blinks at any time ※ a.1 display blinks at any time ※ a.2 display blinks at any time



"Long Press" in the a11 (Distance) screen to enter the setting screen. Since it changes to a.1, "Short Press" to enter a.2 "Custom odo meter setting" screen. "Long Press" to enter setting screen.

■ a.2 "Custom odo meter setting"



Change number "Short Press"

Set number "Long Press"

After the number is set, it switches to the next digit.



※ Selected part flashes at any time

When entering the custom odo meter setting screen. Enter the desired maintenance distance here.

⚠ Be careful. The total distance (odometer) display cannot be turned off or adjusted. The user can enter the desired mileage and set it so that the distance added can be confirmed.

When entering the custom odo meter setting screen, the number of the "100000" will flash. Enter the desired mileage.

Change the flashing digit by a "Short Press".

"Long Press" to set number.

When it is set, it switches to the next digit and flashes.

When the last 1 digit is set (long press), the setting is completed.

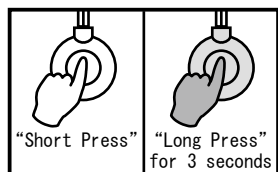
Display range : 0 ~ 999999km

By driving, it automatically adds to the entered mileage.



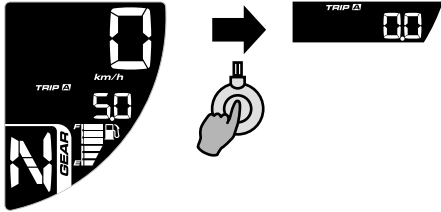
a.2 Return to the "Custom odo meter setting" screen.

⏪ Move to the last item with a "Short Press" to return to the main screen



⑫ How to clear the trip meter A

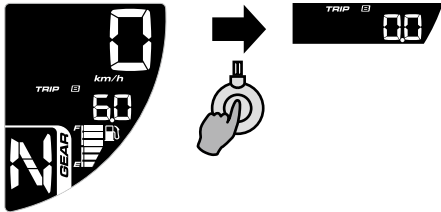
12



- Change the main screen LCD display to the trip A screen and “Long Press” to clear.

⑬ How to clear the trip meter B

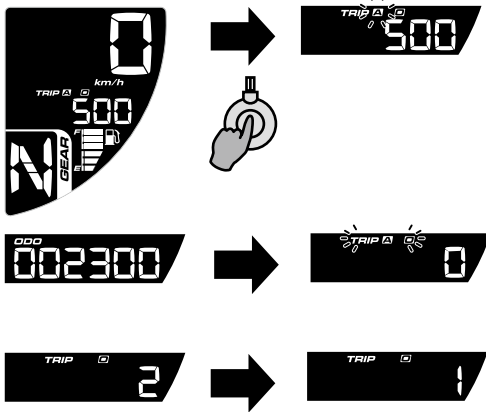
13



- Change the main screen LCD display to the trip B screen and “Long Press” to clear.

⑭ Maintenance distance (notification mode)

14

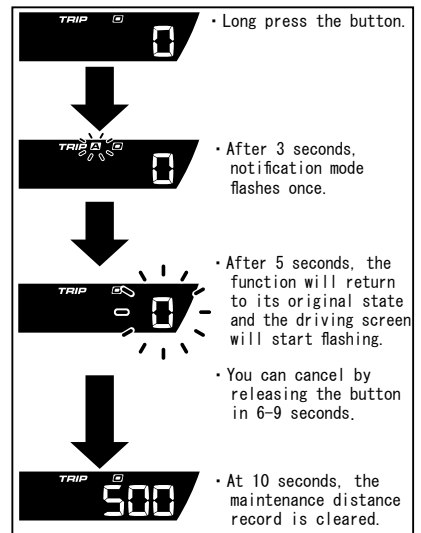


- Switch to the main screen LCD display to maintenance distance screen and “Long Press” to enter notification mode.

- In the notification mode, when the maintenance distance is reached, the maintenance mileage screen automatically changes from other screens.

- The screen flashes when the maintenance distance reach to the set number.

- If you “Long Press” the button for 10 seconds, the maintenance distance recording mode will be cleared.



Trouble shooting

■ The following symptoms are not a malfunction of the meter. Please check before repair.

The meter does not move even though the power is on.

- Power does not come to meter.
 - Check if the wiring is connected securely. Check the fuse are not blown.
 - 12V DC is required for meter power supply. Check battery condition.

Operation may be unstable or not displayed.

Possible poor wire connection. Check the wiring connection.

※ If problem is not solved, please contact your local Takegawa dealer.