ø 48 Small DN Tachometer kit 12500RPM Instruction manual

Product no. 05-05-0085.

Monkey 125 (JB02-1000001 -) (JB03-1000001 -)Applicab Monkey 125 Thai model (MLHJB02) (MLHJB03) le car

preface

Thank you for purchasing our product.

Please ensure that you understand the following information before using the product. Always check the contents of the kit before installation. If you have any questions, please contact the dealer where you purchased the product.

© Illustrations, photographs and other descriptions may differ from this part. Please be aware of this beforehand.

☆Please read this before use☆

■When installing, prepare tools and other equipment and follow the installation instructions carefully. This manual is intended for persons with basic skills and knowledge. If you have no experience in installation or if you do not have sufficient tools and other equipment, we recommend that you contact a specialist shop with technical expertise.

We are not liable for any accidents, injuries or damage to property that may occur during use of this

The warranty does not cover any parts other than the product, even if the product is installed and used and defects occur in other parts of the product.

- Please refrain from combining with products from other companies, as this is not covered by the warranty.
- The warranty does not cover the product if it has been processed or otherwise altered.
- Performance, design and prices are subject to change without notice. Please note that performance, design and prices are subject to change without notice.
- Claims will only be repaired or replaced within one month of purchase if the product is found to be defective in materials or workmanship, but not for labour charges or other costs.

Please keep this instruction manual until you dispose of the product.

- Charge the battery frequently if the vehicle's battery is not fully charged, e.g. when driving short distances at a time.
- If the vehicle has been stored for a period of time, remove the negative battery terminal and charge the battery frequently or use our battery charger to charge the battery. (The standby current can cause the battery to run down.)

Features



The meter body is a "ø 48 small DN tachometer 12500RPM".

Digital signal & small motor fully control the pointer angle. Highly reliable construction with high pointer holding power.

- Always carry out work when the engine and muffler are cold (engine and muffler are cold). (This may cause burns.)
- When carrying out work, prepare the appropriate tools for the task. (This may cause damage to parts or injury.)
- ■The product and frame may have edges and protrusions. Protect your hands when working on the product. (This may cause injury.)

Marning Indicates a potentially hazardous situation which, if ignored, could result in death or serious injury.

- Do not carry out the work if you do not have the skills and knowledge.
- (Work errors due to lack of skill, knowledge, etc., may lead to accidents due to damage to components).
- When working on the vehicle, stabilise the vehicle on a level surface and work safely. (The vehicle may fall over during operation. resulting in injury.)
- ■If damaged parts are found during inspection and maintenance, do not reuse the parts and replace the damaged

(If used as is, parts may break, resulting in an accident.)

■ Always run the engine in a well ventilated area. Do not start the engine in such an enclosed area.

株式会社 スペシャルパーツ 式 肩

- 風 Ifaan abnormality occurs while driving, immediately stop the vehicle in a safe place and stop driving 1085-0085 (This may lead to accidents.)
- When carrying out inspections and servicing, follow the procedures and procedures described in th12 manual. the service manual, etc.

Precautions for use

[Racing vehicles with headlights off / safety parts removed]. If a vehicle with permanently illuminated headlights is driven with the lights off due to easy modification (just disconnecting the wires), the unconsumed power will increase the overall voltage of the vehicle. If the vehicle continues to run, the battery may deteriorate due to overcharging and the factory regulator may fail due to excessive load. The negative effects are even stronger in vehicles with engine modifications that run at higher engine speeds than normal.

If the headlight has burnt out, stop driving immediately or, if it is absolutely necessary to drive, switch to high beam (and adjust the optical axis). At this time, run at as low a speed as possible. Removing all security parts on a racing vehicle requires specialist knowledge and alternative or additional

■Some H.I.D. kits and LED headlight kits from other manufacturers may produce high voltage noise from the ballast/inverter (voltage converter) which may adversely affect the digital circuitry, and depending on the quality, may cause meter failure. Do not.

LED headlight kits can be fitted at the same time.

Do not install external ignition systems, ignition coils, plug cords or racing plugs (non-resistive type) as they may cause a malfunction due to increased adverse noise.

Deterioration of ignition system components is also related to increased ignition noise.

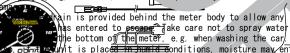
- ■Do not install external power generators as they may cause a drop in battery voltage due to insufficient charging power or malfunction of the control voltage, which may result in a malfunction.
- Please take care not to leave the product in hot weather. If the motorbike is to be left outdoors for a long period of time, cover it with a cover or similar. If the bike is left for a long period of time under severe conditions, such as in the hot sun, there is a risk of deterioration and deformation of the resin and rubber parts.
- The product is not fully waterproof.

The unit has a drip-proof construction, so water will not get inside if it is exposed to rain or other normal wetness, but it is not completely waterproof, so water will get in if it is immersed in water. If water should enter the unit, stop using it immediately. Also, if the humidity is high or there is a sudden change in temperature, the unit may absorb moisture and fogging may occur on the inner surface of the panel.

■ Do not subject to violent shocks.

13 Binding bands 200 mm

Do not perform any actions that may cause a strong impact on the meter, such as off-road riding jumping, wheelies, etc. Some impacts may result in missing internal payts or body



hit is placed in humid conditions, moisture may enter the unit and cause

00-00-0269 (Pack of 10)



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 $\bigcirc \bigcirc$

(viii)



numbe	Part	quant	
r	n' ame	ity	number
. 1	Main body of meter	1	
x) 2	IG Coil cord (1500 mm)	1	09-05-0142
3	Tachometer subcode COMP(11) (12)	1	00-00-1993
4	meter stay	1	00-00-2385
5	cushion collar	2	
6	Hexagon nut 4 mm	2	00-00-0398 (Pack of 10)
7	Plain washer 4 mm	4	
8	cushion rubber	2	
9	Stick temperature sensor	1	07-04-0553
10	Temperature sensor connecting cord 900 mm	1	07-04-0554
11	Hexagon socket set screw (potato screw) M3x5	1	00-00-0480 (Pack of 6)
12	L Wrench 1.5 mm	1	00-00-0902

(ix)

(vii)

(13)

Repair parts must be ordered by

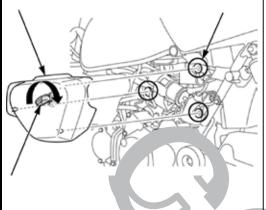
number. If you do not order by part number, we ma not be able to accept your order. Please understand this in advance.

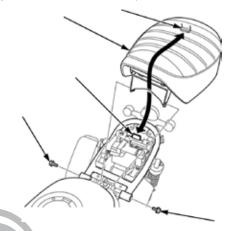
Installation instructions *Refer to the factory service manual for installation instructions and specified torques for details not specifically mentioned.

attention (heed)

The contents of the work to remove external parts in this instruction manual are only an outline with details omitted. If you are not familiar with exterior removal work, ask your dealer to carry out the work or always follow the instructions for the work procedure and tightening torque in the genuine service manual of the manufacturer. When removing and installing the exterior parts, work carefully to avoid damaging the claw and groove parts.

Remove the side cover. Remove the seat and remove the negative terminal of the battery.

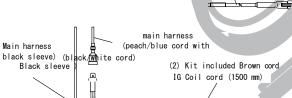




wiring diagram

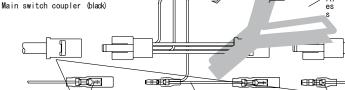
ignition coil

(ix) Stick temperature sensor (10) Temperature sensor connecting cord 900 mm



main harness

Brown cord



Left indicator Gibbon.

cord) (Green cord)

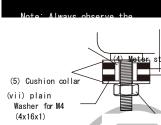
(3) Tachometer sub-code COMP signal indicator connector (green cord with black sleeve)

Left indicator turn (Green

*Stick temperature sensors can be positioned out of the running wind to measure the outside temperature. Temperature measurement at the drain bolt is also possible by purchasing our drain bolts with magnets separately.

2022. 2. 25 05-05-0085 (1) Meter body and (4) meter stay.

Installation.













Disconnect the headlight unit. Use the

Remove the two bolts on the left and

Installation instructions *Refer to the factory service manual for installation instructions and specified torques for







Headlight in the headlight stay section. Take the headlight case in the reverse

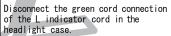
right side of the case. Attach. *The headlight units are not vet

assembled. Referring to the wiring connection diagram, connect the IG coil cord to the ignition coil peach/blue cord around the right side of the vehicle under the tan pass the cord so that it



If the cord and the IG coil body do not touch, it is OK.

Pass the (2) IG coil cord through the headlight and connect the meter side harness to the (2) IG coil cord.



(3) Connect the tachometer subcode COMP.

If you purchase our drain bolts separately, you can measure the temperature at the drain bolt. (Measuring range 0 - 150°) For instructions on how to fit the sensor to the drain bolt, see page 4 of this paper, heading no. See section 1) "Temperature sensor



TAKEGAWA

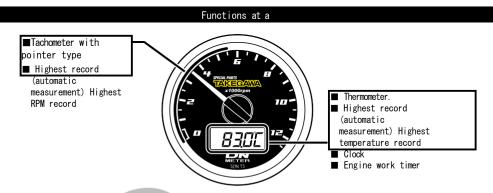
he DN

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Secure the stay using the factory bolts, leaving a gap at the meter. Route the harness on the meter side into the headlight case.

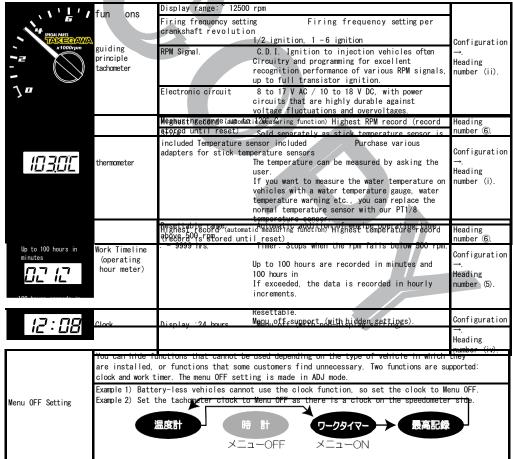
Check each connection and install the headlight unit in the reverse order.

Attach the negative terminal.



Pointer-type tachometer with P for excellent seismic resistance and accuracy, plus thermometer, clock and maximum record (automatical accuracy).

(Multifunction tachometer and digital dis, v (maximum temperature record / maximum RPM recordand engine work timer funct.) The meter has a rick panel with orange illumination for excellent day and night visibility.



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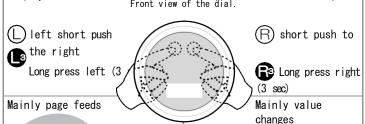
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How to operate the buttons

The two buttons on the back of the meter body are used for basic meter settings and display switching. The left and right buttons are shown in the illustration below as "looking at the dial from the front". There are two ways to press the buttons: "short press" and "long press" (3 seconds)

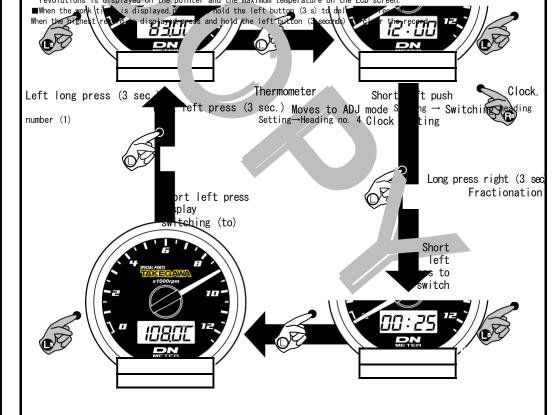
Please check the display icons and the indications on how to press the button before operating the unit.

Front view of the dial.



Meter activation

- Battery-powered vehicles are switched on with the key ON, while battery-less powered vehicles are switched on when the engine is started.
- Starts up in the mode in which it was turned off last time.
- When the "left short press" is performed, the display on the LCD screen in the lower centre switches between thermometer, clock, work timer, maximum record and thermometer. For the maximum record, the maximum number of revolutions is displayed on the pointer and the maximum temperature on the LCD screen.



Long left press (3 s) timer Left long press (3 sec.) Delete record no. 5 (5) Time erasure Settings \rightarrow Heading number (6).

Short left press Switch to.

	Short press: go to next setting item / Long press: exit ADJ mode
R button (right button)	Short press: advances the set value / long press: resets the set value.

Work timer menu OFF setting	Settings → Heading number (5) -2
OFF if the clock function is	s not used Range: on,

RPM signal Settings → Heading connection settings number (2) -1 RPM Code Type of connection point IG mode [A connection]B connection] Ignition coil connection PC mode [C connection] Pulse generator

connection

Clock menu OFF Setting Settings → Heading number (4) -2OFF if the clock function is not used Range: on,

RPM Signal Settings → Heading number (2) -2frequency setting Number of signals per crankshaft revolution Range in IG mode: 0.5, 1 - 6 times Range in PC mode: 1 - 24 times

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Temperature sensor connection cord,

temperature sensor connection

- The measuring range of the thermometer is 0-120 $^{\circ}$ C.
- ■Optional adapters are required to measure oil temperature and water temperature.
- Depending on the vehicle model, engine components are also available for temperature sensor installation. ■ See optional parts in our catalogue.
- The temperature sensor can be fixed in a suitable position and used as an outside temperature gauge.

Ma Ф 3 in '5 Ash un '6' Yellow it

Temperature sensor connecting cord 900 mm stick temperature sensor Use wiring tape or tie wrap to fix the wiring to the frame or

vehicle harness to prevent damage or disconnection due to interference caused by steering operation, friction caused by driving vibrations or contact with hot engine parts.

When the sensor is not connected (wiring disconnected), the value is [- - -, -C].

■The set screws supplied are used for attaching the stick temperature sensor to compatible parts manufactured by us. To prevent the sensor from falling off, apply a small amount of threadlocker to the set screw and stop

tightening to the extent that the sensor is lightly scratched. Hexagon so <u>Over-tightening</u> of the set screw causes the

sensor part to become large. Deformation can damage the internal

If damaged, it is the same as a broken or short-circuited cord. Indication at disconnection: [- - - . -C]indication at short circuit: [120.00].

Tighten down to the extent that light linear scratches in the shape of () are made.

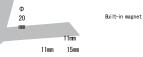
Temperature optional parts

CO

1.5 mm

Drain bolt with magnet (M12xP1.5) Fits Monkey 125.

Wire lock hole Stick temperature sensor insertion hole (Ф 3.2

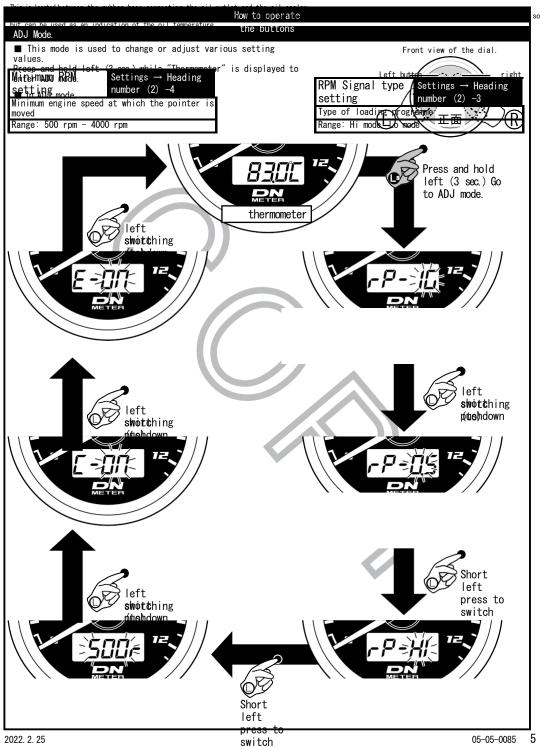


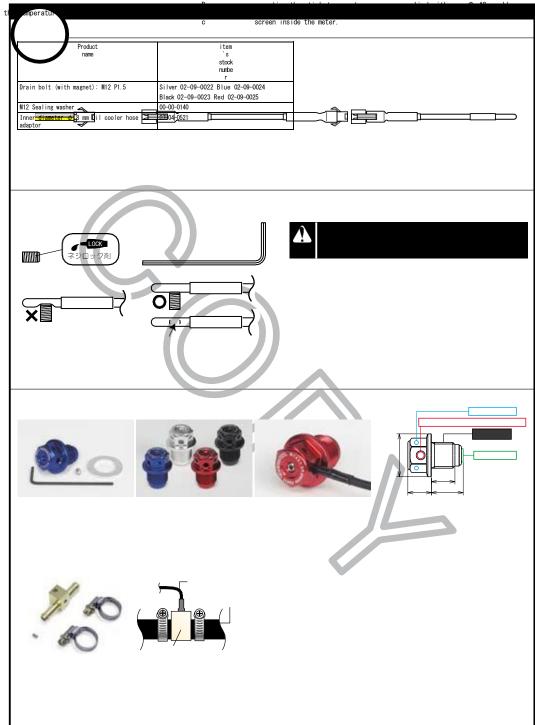
The magnets on the drain bolts absorb the iron powder mixed in the engine oil with strong magnetic force. This reduces the amount of iron powder in the oil and enables the original stable lubrication performance of the engine oil to be demonstrated. Furthermore, our aluminium drain bolts are equipped with a wire lock hole for wire locking and a hole for inserting our stick temperature sensor to prevent it from falling off. By attaching the stick temperature sensor to the drain bolt and connecting it to our Φ 48 small DN tachometer 12500 RPM. the temperature at the drain bolt can be measured. The drain bolt itself is elaborately machined from aluminium and has a Colour anodised. Available in silver, black, blue and red. With laser marking of our logo. Magnets are "caulked" for secure fixing be used in place of various genuine drain bolts.

Adaptor for oil temperature gauge Monkey 125 Suitable for vehicles fitted with our oil cooler kit (rubber hose).

This applies to vehicles fitted with an oil cooler kit that uses rubber hoses Attached to the meter (inner diameter ø 8 mm).

スティック温度センサー スティック温度センサー差込穴付きアダプターです。 Inner diameter Φ 8 mm Rubber hose





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SPECIAL PARTS

RPM signal connection setting:

sets the RPM code connection.

The Monkey 125 uses the full transistor ignition system [B connection]. For [B connection], the setting mode corresponds to IG (ignition coil connection).

Press and hold left (3 sec.) while "Thermometer" is displayed to enter ADJ mode

■ When the ADJ mode is entered, "rP-IG" is displayed. In this state, "short press right" is performed to set the RPM signal connection.

Right short Press and hold thermom press left (3 sec.) Go Switch to ADJ mode. eter setting mode

When the RPM signal connection setting screen is displayed. "IG" or "PC" is

IG and PC are switched by "short push to the right". The Monkey 125 has a fully transistorised ignition system. [B Connection].

Press and hold left (3 s) while "Thermometer" is displayed to AD.I mode

> After setting the mode of connection (flashing display), press and hold left (3 s) to confirm. The ADJ mode returns to the main screen at the same time as the setting is made.

After setting the mode Press and hold left (3 s) Confirm At the same time, return to the main screen.

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RPM signal frequency setting: set the signal frequency per crankshaft revolution. For the Monkey 125. "0.5" is relevant.

Press and hold left (3 sec.) while "Thermometer" is displayed to enter ADJ mode.

■ When the ADJ mode is @rP-IG" is displayed. Switch the display by pressing the left briefly elet the display to "rP-1". Display order "rP-IG" \rightarrow "rP-I" \rightarrow "rP-HI" \rightarrow "500r". . . With "rP-1" displayed, press "short right" to set the RPM signal frequency.

thermometer

view of the dial.

Front

Press and hold left (3 s) while "Thermometer" is displayed to enter ADJ mode

Press and hold left (3 s) Go to ADJ

mode.

short right-hand push digit

switching (to)

RPM signal type setting: set the type of reading programme. For the Monkey 125. "HI" is relevant.

3

Press and hold left

"Thermometer" is d

ADJ mode.

Press and hold left (3 sec.) while "Thermometer" is displayed to enter ADJ mode.

■When the ADJ mode is #rP-IG" is displayedSwitch the display to "rP-HI" by pressing the left b briefly. Display order "rP-IG" \rightarrow "rP-I" \rightarrow "rP-HI" \rightarrow "500r". ...

In the "rP-HI" display, press the "short right" button to set the RPM signal type.

Right

short

nress

Switch

mode

setting

thermometer

Press and hold left (3 s) Go to ADJ mode.

s) while ayed to enter

When the RPM signal type setting screen is displayed, "Lo" or "HI" is blinking. Lo and HI are switched by "short push to the right". The Monkey 125 is set to "HI".

After setting the mode to be connected (flashing display), press and hold left (3 s) to confirm. The ADJ mode returns to the main screen at the same time as the setting is made.

After setting he mode Press and he left (3 s) Confirm At the same, return to the mai

Minimum speed setting: sets the minimum engine speed at which the indicators are to be moved. ■ Use as a function for battery-less vehicles

In battery-less vehicles, when the engine is stopped, the drive power supply is cut off and the pointer remains at that angle. By specifying aslightly higher rpm than the idling rpm (+500 rpm or so), it is possible to keep the pointer at zero when the engine is stopped. If the angle of the pointer deviates, it will be automatically corrected when the engine is restarted.

■ For vehicles with battery, set to "500 rpm".

Press and hold left (3 sec.) while "Thermometer" is displayed to enter ADJ mode.

■ When the ADJ mode is #rP-IG" is displayed. Switch the display by pressing beft button det the display

The number 500 in "500r" may differ. Display order "rP-IG" → "rP-I" → "rP-HI" → "500r". With "500r" displayed, press "short right" to change the value.

When the RPM signal frequency setting screen is displayed, a number (signal di frequency) such as "1" is flashing. The numbers are switched by a "short press Ιa to the right". The Monkey 125 is set to IG mode "0.5". re tu

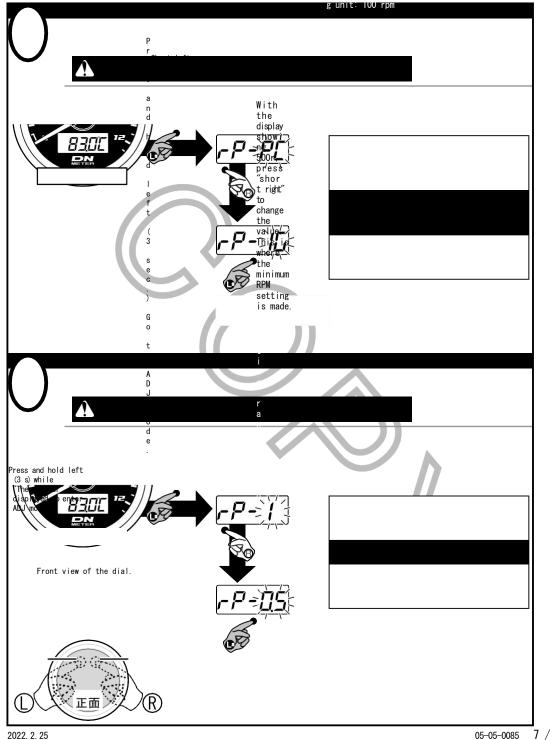
After setting the RPM signal frequency

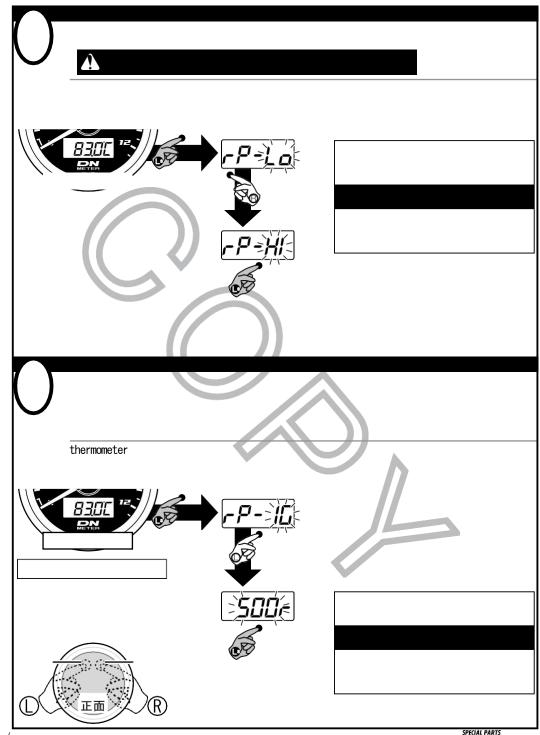
"Press and hold left (3 s)" to confirm.

(flashing display), press

rn S to th e main screen from the ADJ mode as soon as it is confirmed.

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Left button right

button

After setting the RPM signal frequency, press and hold left (3 s) to confirm. At the same time, return to the main screen.

Left button button right

After setting the RPM signal frequency, press and hold left (3 s) to confirm and return to the main screen at the same time.

After setting the minimum rpm (flashing display), press and hold "left". (3 sec.)" to confirm. Upon confirmation, the ADJ mode returns to the main screen.

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clock: sets the time in 24-hour

display.

In the 'Thermometer' display,

clock display and press and hold

left (3 sec.) to enter the clock

Front view of the dial.

press 'short left' to move to

When the "Thermometer" is displayed on the main screen, press and hold the left button (for 3 seconds) to set the clock display.

> clock display

left short thermometer nushdown

display switching

Press and hold left (3 s) Go to clock settings

In the clock setting screen, the hour (e.g. 12) digits flash. Short press right" switches the time (24 hours).

After setting the time, a "short left press" will change the time to the minute.

It switches to the setting and the number flashed timer time display can be checked by pressing the "short left" button.

"Short press right" switches the minutes. After setting the minutes, the clock setting is confirmed by pressing the "short left" button

Left button button

setting screen.

right

Right left short short press pushdown Hour/minu Definitive / te Next item switching

After minute setting, short left push confirmed At the same time, return to the main screen,

Clock fractionalisation function: fractions of a minute to the nearest five minutes

When the "Thermometer" is displayed on the main screen, a short left press and hold (3 seconds) on the right side of the screen will display the time with the fractional time displayed.

thermomete

left short pushdown display switching

Long press right (3 sec) Change to

display switches to the fractional display by pressing and holding right (3 s) of the reatment display clock screen.

displayed, press "short right" to move the display to the clock

Fractional time processing (e.g.

display.

When the "Thermometer" is

Clock menu OFF setting: set to OFF to hide the function when it is not used.

Press and hold left (3 sec.) while "Thermometer" is displayed to enter ADJ mode.

■ When the ADJ mode is @frP-IG" is displayed. Switch the display by pressing wheft button briefly det the display to "C-on". Display order "rP-IG" \rightarrow "rP-II" \rightarrow "rP-HI" \rightarrow "500r" \rightarrow "C-on". "C-on"... In the "C-on" display, press "short right" to set ON or OFF.

Short left press

Press and hold left (3 s) Go to

"Thermometer" is displayed to enter

ADJ mode

Work timer: Timer that automatically adds up the engine operating time above 500 rpm. Stops when the engine runs below 500 rpm The measured time can be deleted

■ During the "Thermometer" display on the main screen, a "short left press" (several times) can be used to switch to the work timer time display and check the engine running time. In the time display, a "long left press" (3 s) will delete the record.

> Up to 100 hours are recorded in minutes and 100 hours in If exceeded, the data is recorded in hourly increments.

> *The ":" flashes when the timer is running.

On the display screen. Long press left (3 sec) Erase record

Example: 100 hours 0 - 59

Example: 99 hours 59 minutes

minutes

Press and hold left (3 sec.) Go to ADJ mode.

Short left press

(several times)

Switch display

thermometer

During the "Thermometer" display, the

thermometer

"Press and hold left (3 s) while

"Thermometer" is displayed to enter

Work timer menu OFF setting: set to OFF to hide the function when it is not used.

Press and hold left (3 sec.) while "Thermometer" is displayed to enter ADJ mode.

■ When the ADJ mode is #rP-IG" is displayed.Switch the display by pressing beft button briefly det the display to "E-on". Display order "rP-IG" \rightarrow "rP-I" \rightarrow "rP-HI" \rightarrow "500r" \rightarrow "C-on" \rightarrow "E-on". "C-on" → "E-on".

In the "E-on" display, press "short right" to set ON or OFF.

Short left press (several times) Work timer menu OFF To setting

Switching "E-on" When switched on, "ON" is flashing. ON/OFF is toggled by "short press to the right"

After setting OFF (flashing display), press and hold left (3 s) to confirm. Upon confirmation, the ADJ mode returns to the main screen.

Right short press Switch

setting mode

After setting menu OFF, press and hold left (3 s) to confirm. At the same time, return to the main screen.

Maximum record: maximum RPM and maximum temperature are measured automatically. Measuring times can be erased.

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Settings: on off

After setting OFF (flashing display), press and hold left (3 s) to confirm.

■ During the "Thermometer" display on the main screen, a "short left press" (several times) allows the highest record to be displayed and each record to be checked. Press and hold the left button (3 seconds lisplayed to left the record.

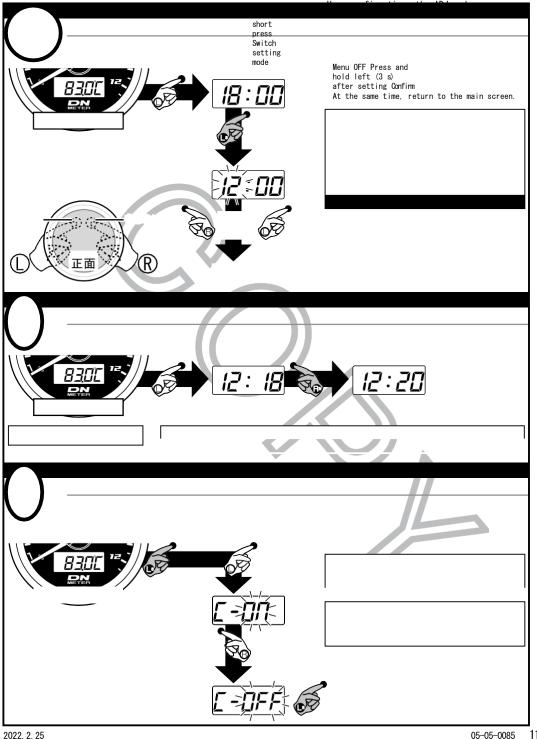
thermometer

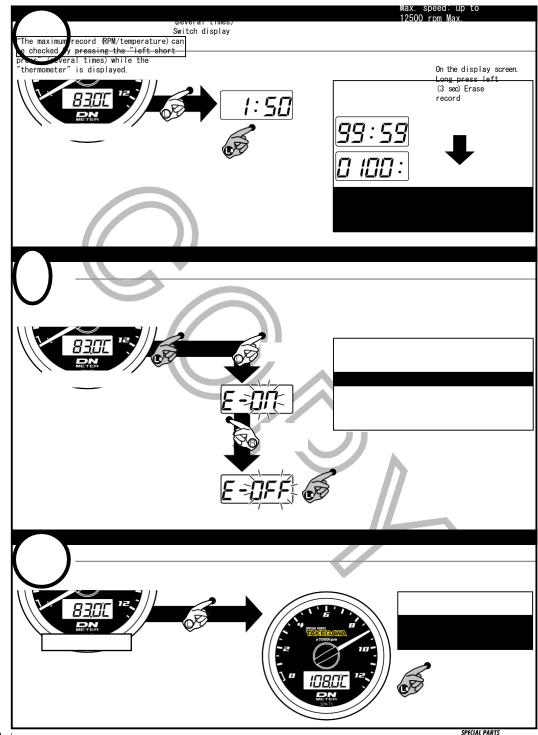
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SPECIAL PARTS

TAXABLE PARTS