Instruction Manual for 4-Stroke DIO (AF62) Bar Handle Full Kit

Item No.	：０６－０２－０３０１
Fits	：Dio
Frame Nos	：AF62-1000001～

・Thank you for purchasing one of our TAKEGAWA-made products. Please strictly follow the following instructions in installing and using the kit.
・Before installing the kit, please be sure to check the kit contents. Should you have any questions about the kit, please contact your local motorcycle dealer.

Read all instructions first before starting the installation.

◎ We do not take any responsibility for any accident or damage whatsoever arising from the use of the kit not in conformity with the instructions in the manual.
◎ We shall be held free from any responsibility or compensation whatsoever for any glitch in the parts other than ours if the glitch takes place after the installation and use of the products.
◎ If you make modifications to any product of the kit, we shall be held free from any guarantee of the product.
◎ You are requested not to contact us about the combination of our products with other manufacturers'.
◎Please note that this kit is designed for exclusive use in the above-mentioned fitting models and frame numbers only and that it cannot be mounted on any other models.

About the bar handle kit

◎ Installation of this kit requires some wire processing.
◎ Installation of turn signals requires boring of a front cover.
◎ In order to build a bar handle using this kit, please separately purchase the following TAKEGAWA-made parts and HONDA-made genuine parts.
◎As a stock meter assembly is to be removed, a fuel meter becomes unavailable. If you need the meter, please purchase an extra-cost TAKEGAWA-made Fuel Meter Kit of Item No.09-01-2010, or Compat LCD Fuel Meter Kit of Item No. 07-04-0019.
◎ In case you use other steering handle and headlight than those included in this kit, please use them on your own responsibility.

Honda's genuine parts:
For use in Today
Switch set, turn signal (part #: 35020-GFC-890) 1 piece
Socket COMP., headlight (33130-GFC-890) 1 piece

⚠ CAUTION The following show the envisioned possibility of injuries to human bodies and property damage as a result of disregarding the following cautions.

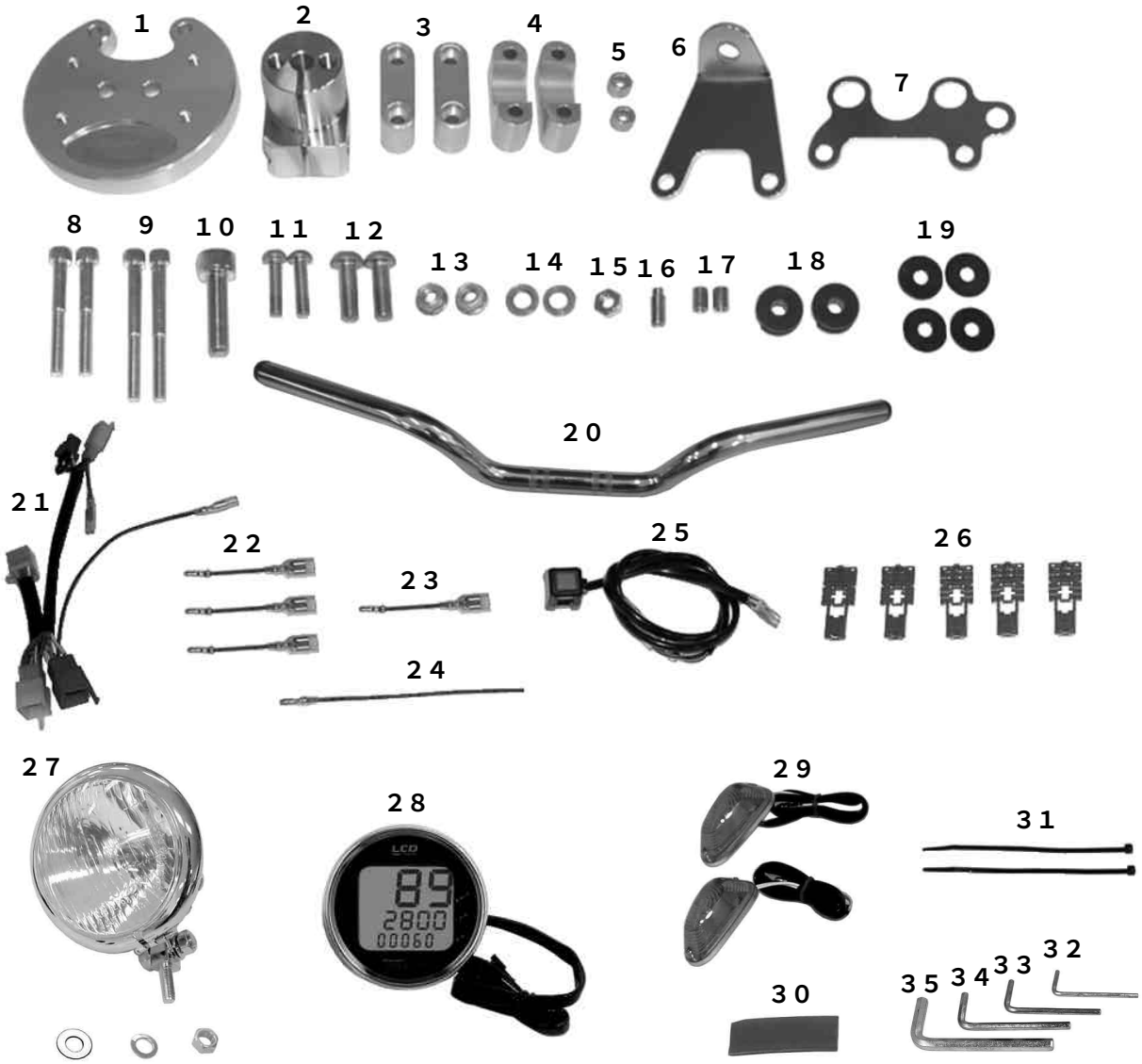
- Always try to drive your motorcycle at a legal speed, abiding by the laws.
- Work only when the engine and muffler are cool. (Otherwise, you will get burned.)
- Do the installation with right tools. (Otherwise, breakage of parts or injuries to you may take place.)
- Always use a torque wrench to screw bolts and nuts tight and securely to the specified torque. (Otherwise, these parts may get damaged or fall off, resulting in accidents.)
- As some products and frames have sharp edges or protruding portions, please work with your hands protected. (Otherwise, you will suffer injuries.)
- Before riding, always check every hardware like screws for slack. If you find slack one, screw them securely up to the specified torque. (Otherwise, improper tightening may cause parts to come off.)

⚠ WARNING The following show the envisioned possibility of human death or serious injuries to human bodies as a result of disregarding the following warnings.

- When you notice something abnormal with your motorcycle while riding, immediately stop riding and park your motorcyle in a safe place to check what has gone wrong. (Otherwise, the abnormality could lead to accidents.)
- Before doing work, make sure your motorcycle is secure on level ground for safety's sake. (Otherwise, your motorcycle could overturn and injure you while you are working.)
- Check or carry out maintenance of your motorcycle correctly according to the procedures in the instruction manual or service manual. (Improper checking or maintenance could lead to accidents.)
- If you find damaged parts when checking and performing maintenance of your motorcycle, do not use these parts any longer, and replace them with new ones. The continued use of these damaged parts as they are could lead to accidents.)

◎ Please be informed that, mainly because of improvement in performance, design changes, and cost increase, the product specifications and prices are subject to change without prior notice.
◎ This manual should be retained for future reference.

Kit includes:



No.	Part Name	Qty	No.	Part Name	Qty
1	Handle post 1	1	19	Plain washers, black	4
2	Handle post 2	1	20	Handle	1
3	Handle upper holders	2	21	Sub-harness	1
4	Handle lower holders	2	22	Sub-cords, green	3
5	Collars	2	23	Sub-cord, black	1
6	Headlight stay	1	24	Fuel meter cord	1
7	Speedometer stay	1	25	Starter switch	1
8	Socket cap screws, 6 x 50	2	26	Electro taps	5
9	Socket cap screws, 6 x 60	2	27	Headlight COMP.	1
10	Socket cap screw, 10 x 35	1	28	Meter assembly	1
11	Buttonhead screws, 6 x 25	2	29	turn-signal lenses (clear lenses)	2
12	Buttonhead screws, 8 x 25	2	30	Heat shrinkable tube	1
13	Flange U-nuts, 6 mm	2	31	Tie Wraps, 100 mm	2
14	Playn washers, 6 mm	2	32	L-shaped wrench, 3 mm	1
15	Hex nut, 6 mm	1	33	L-shaped wrench, 4 mm	1
16	Handle post pin	1	34	L-shaped wrench, 5 mm	1
17	Meter-mount collars	2	35	L-shaped wrench, 8 mm	1
18	Meter cushion rubbers	2			

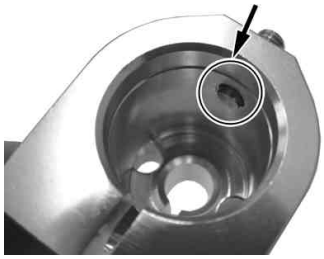
～Installation Instructions～

1. Check the kit contents.
2. Prepare suitable tools for the work.
3. Make sure your bike is secure on a center stand.
4. Referring to the relevant HONDA's service manual, remove the following parts:
- Front cover
- Handle front cover
- Handle rear cover
- Steering handle

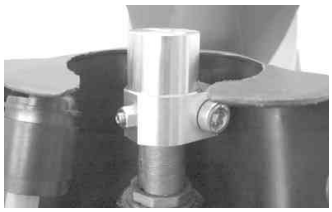
5. Detach a throttle housing, handle bracket L, handle grip L, etc. from the removed steering handle.

6. Remove the following parts from a standard handle bracket L, and install them onto the prepared turn-signal switch.
The numbers below show the order of removal, and install these parts in the reverse order of the removal.
① E-clip
② Parking lever pivot pin
③ Parking lever COMP.
④ Lever return spring
⑤ Hex nut
⑥ Washer
⑦ Spring
⑧ Handle lever pivot screw
⑨ Rear brake lever
⑩ Rear brake cable
⑪ Stop switch
※ When installing, apply grease to pivots.

7. Fix a handle post pin to a provided handle post 2.
At this point, fix the pin so the tip of the pin sticks out somewhat into the inside.



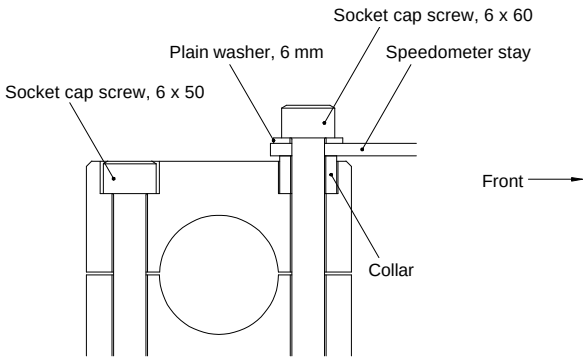
8. Meshing the pin and grooves on the stem shaft, install the handle post 2.
After screwing in the pin lightly, lock the pin with a 6mm hex nut. Put in a 10x35 socket cap screw and tighten it to the specified torque.
Torque: 35 N•m (3.5 kgf•m)



9. Install the handle post 1 with an 8x25 buttonhead screw, and tighten the screw to the specified torque.
Torque: 22 N•m (2.2 kgf•m)

10. Loosely install a provided handle pipe for now. And decide the angle at which to install the steering handle, and where to fix a throttle housing and turn-signal switch.
On the clamps of a throttle housing and turn-signal switch, there is a protrusion to position them. In installing them, either shave off the protrusion or make a hole in the steering-handle pipe.
※ Carefully decide on where to install.

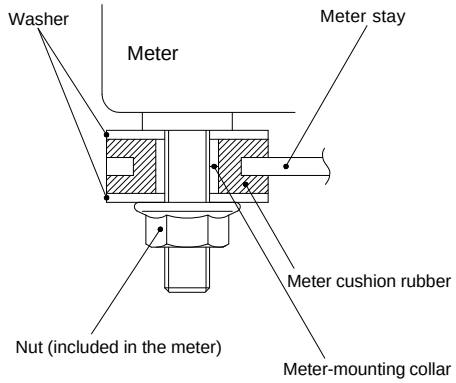
11. Please place a steering handle pipe in the handle holder, and then fit it to the handle post. At this point, put a provided collar into the spot-facing on the handle-upper-holder front side. Install a speedometer stay at the same time (See the fig. below). Adjust the steering handle angle, and tighten the socket cap screw to the specified torque.
Torque: 12 N•m (1.2 kgf•m)
※ Tighten the steering-handle holder so the space at the front and back is equal.



12. Install the throttle housing, handle grip L and others removed from the standard handle pipe.
Run the throttle cable, brake hose and brake cable in front of the handle post.

13. Install the headlight stay with a 6x25 buttonhead screw and 6mm flange U-nut, and tighten it to the specified torque.
Torque: 12 N•m (1.2 kgf•m)

14. Fix a provided speedometer to the stay. The speedometer is to be fixed using a rubber mount system. So, do the installation work referring to the figure below.



15. Fix a headlight to the headlight stay. Position the headlight and fasten it with a bolt and nut, which please tighten to the specified torque.
Torque: 25～30 N･m (2.5～3.0 kgf･m)

16. This kit is designed on the premise that the provided headlight is to be used. Attach the headlight to the provided headlight stay.
Set the position of the headlight, and fasten it with a bolt and nut.
Torque: 25～30 N･m (2.5～3.0 kgf･m)

17. This kit is designed on the premise that the provided aero winker is to be attached to the normal front cover. So, the work is needed to pass the wires through the front cover.
First, make sure where to install the turn signals and where to pass the wires, and either file down a part of the front cover or make a **φ** 5 or so hole in the cover. (The photo below shows an installation example.)

Installation of Harness

～Sub-harness～

1. Put the terminal area of the harness from the turn-signal switch into the headlight case.

2. Then route the remaining part of the harness into the inside of the front cover just like other cables.

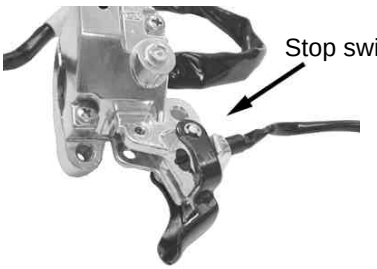
3. With a provided sub-harness, connect two 9-pin couplers of the main harness on the vehicle and a 9-pin coupler of the turn-signal switch.
NOTE: Be careful not to make wrong connection of couplers.

～Starter switch～

Install the starter switch onto the steering-handle pipe, and run the harness into the inside of the front cover of a bike just like other cables.

～Stop switch～

1. Onto the turn-signal switch, install the removed normal front stop switch assembly removed from the stock.



2. Connect the black, green and yellow terminals of the turn-signal switch to the terminals of the same color of the stop switch.

～Headlight～

This kit is designed on the premise that our TAKEGAWA-made Bates-type headlight is to be used.

1. Remove sockets attached to the Bates-type headlight, and replace them with a prepared socket COMP.

2. Connect the blue, white and green cord terminals of the turn signal switch to the cord terminals of the same color of the socket COMP.

～Turn signal～

This kit is designed on the premise that our TAKEGAWA-made aero turn signals are to be used.

Connect the terminals of the right and left turn signals as follows:
Right turn signal: sky blue
Left turn-signal: orange
Earth cable: green

※ The aero winker is nonpolar.

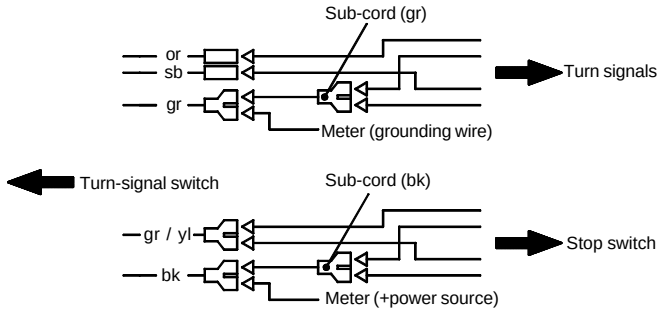
～About wiring of speedometer～

This kit is designed on the premise that our TAKEGAWA-made speedometer is used.

For the power source, connect the meter to a cord from the turn-signal switch. Connect the + power-source wire to the black, and the earth wire to the green, respectively.

For the connection, please use an electro tap, or prepare a terminal separately by yourself.

In case the connection is made with a terminal, branch wires with a provided sub-harness. (See the fig. below)

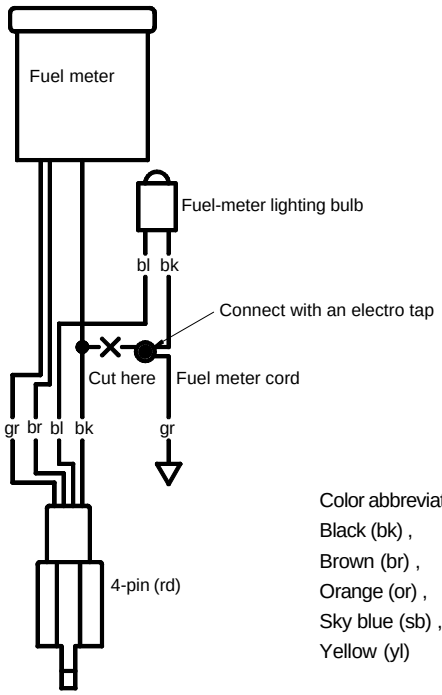


～Fuel meter～

This kit is designed on the premise that our TAKEGAWA-made fuel meter kit is used.

1. Remove a rear cover of a fuel meter assembly, and process the wires as per the figure below. (Connect a provided fuel meter cord (green) using an electro tap.)

※ Be sure to insulate the cut-off portions



Color abbreviation:

Black (bk) ,	Blue (bl)
Brown (br) ,	Green (gr)
Orange (or) ,	Red (rd)
Sky blue (sb) ,	White (wt)
Yellow (yl)	

※If you are using a compact LCD fuel meter, please refr to its instruciton manual.

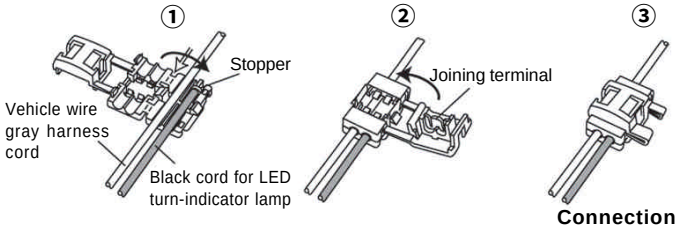
2. After the processing, attach the cover again.

3. Connect the 4-pin coupler (red) of the fuel meter and the terminal of the fuel meter cord to the 4-pin coupler (red) of the sub-harness and to the terminal, respectively.

After installation of all hardware, start the engine in a well-ventilated place to check that all hardware operate normally.

In case you detect some malfunction, please check for the bulb blowout or poor cord-connection which can be the main cause.

How to connect the electro tap

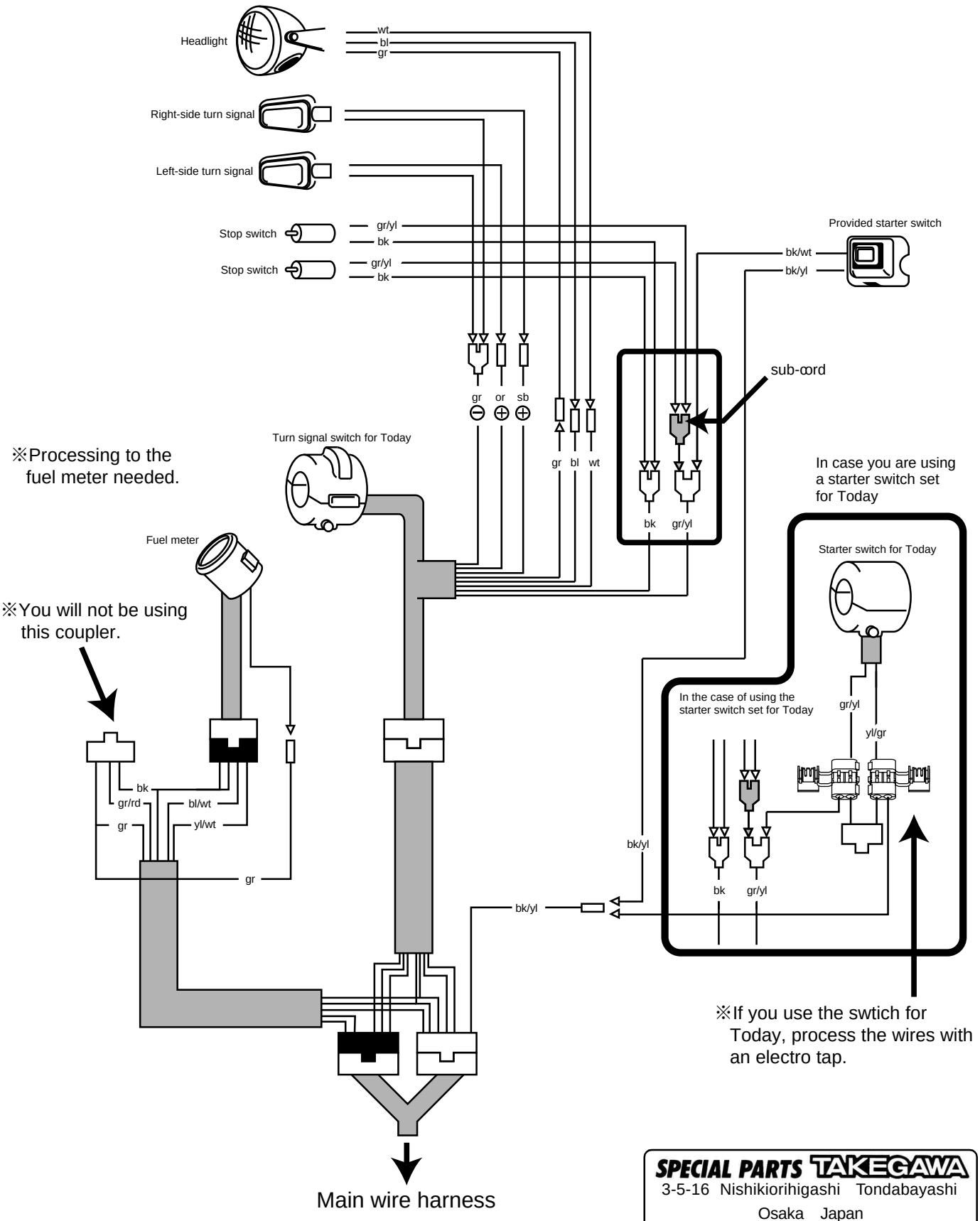


① Before connecting the cords, place them in the relative conduits on the electro tap. Particularly, set the position of the LED cords securely until they fully touch the stopper.

②Fold back the tap at the arrow mark (⇒) to temporarily fix the cords.

③Then, fold back the section with a joining terminal. Securely hold it down with a plier or the like until it is completely locked.

～Connection Diagram～



SPECIAL PARTS TAKEGAWA
3-5-16 Nishikiorihigashi Tondabayashi
Osaka Japan
TEL : 81-721-25-1357
FAX : 81-721-24-5059
URL : http://www.takegawa.co.jp

α type Addendum

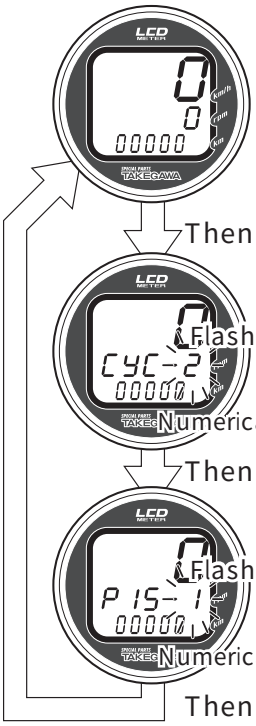
For tachometer set of large LCD meter α

This page various kit common content.
Please switch the meter setting value according to appropriate vehicle.

Vehicle name	Product No.	CYC-	PIS-
MAGNA50	09-01-0211	2	1
ZOOMER (Carburetor vehicle)	09-01-0056	2	1
TODAY (Carburetor vehicle)	06-02-0303	2	1
AF62 Dio	06-02-0301	2	1
SPACY100	06-02-0305	2	1
Dio (two-cycle)	06-02-0302	2	1
JOG (two-cycle)	06-02-0304	2	1
XR50/100 Mptard	09-01-0288	2	1
XR250 Mptard	09-01-0055	2	1
KSR110	09-01-0054	2	1
KSR50/80	09-01-0054	2	2

Setting change procedure of tachometer

Numerical change button (in the text [B] button)
Setting item switch button (in the text [A] button)



Turn ON the main key of vehicle (starting the engine by vehicle), please state the power of meter has entered (there is a LCD).

Then press the [A]

Press the button on the [A].
Display of "CYC-" appears on the screen.
In this case, will change display alternately with the time you press the button on [B] "CYC-2" ⇔ "CYC-4".

Numerical change in [B]

To fit to the appropriate vehicle, please select either.
After the selection of CYC- is now complete, please press

Then press the [A]

Display of "PIS-" appears on the screen.
In this case right side of numerals of the time you press the button on [B] "PIS-" will change.
Above - if you choose the "CYC 2" it will become a 1⇒2⇒3⇒4⇒1⇒2⇒ ···.
It becomes 1⇒2⇒3⇒4⇒5⇒6⇒8⇒1 ··· If also you have selected the "CYC-4".
Depending on appropriate vehicle, please select.

Numerical change in [B]

Then press the [A]

All settings are complete, it will return to standard screen from setting change screen by pressing [A] button.

Engine Type [CYC-], about number of cylinders [PIS-]

This [engine type, number of cylinders], an example of the ignition number of crankshaft rotation.
Therefore, some cases be different from engine type and the number of cylinders of actual vehicle.

0.5 times represents the once ignition to the crank shaft 2 rotation.

Ignition number of times per crankshaft revolution	0.5 times	1 times	1.5 times	2 times	2.5 times	3 times	4 times
CYC-2 (For example of two-cycle engine)		PIS-1		PIS-2		PIS-3	PIS-4
CYC-4 (For example of four-cycle engine)	PIS-1	PIS-2	PIS-3	PIS-4	PIS-5	PIS-6	PIS-8

(PIS- the example of the number of cylinders)

●When ignition number of appropriate vehicle do not know
Engine types in [CYC-2] fixed, first set the number of cylinders in [PIS-4], please check the display numeric value by lightly blip the engine.
The number of cylinders [PIS-4] in because it is often actually displayed less than, we will display number is increased by changing the PIS-3 → PIS-2 → PIS-1 and numbers while watching a state, it becomes just a good set .

Monkey-based engine, Ape-based engine, other four-stroke 1 cylinder, many four-cylinder engine is set because it is one ignition per rotation crank shaft 1 will be [CYC-2, PIS-1].
In the part of the two-stroke one cylinder of vehicle and the inner rotor mounted vehicle, there is a case of ignition twice per crankshaft revolution [CYC-2, PIS-2].