



Instruction Manual for Racing-Type Back Step Kit

(Rear damper hub type & racing back step)

Item No. : 0 6 - 1 3 0 0 0 2

Fits : Monkey · Gorilla

Frame Nos : Z50J-1300017 ~

Thank you for purchasing one of our TAKEGAWA's products.

This back step is so designed that a kick pedal and stop lamp switch can be used only for street use. And the riding position is also designed to be suitable for the racing as well.

Before starting the installation, please read this Instruction Manual well for your thorough understanding and proper installation.

Please note that, in some cases, the illustrations and photos may vary from the actual hardware.

Please read the following instructions before installation.

Caution The following show the envisioned possibility of injuries to human bodies or property damage as a result of disregarding the following cautions.

Be sure to do the work when the engine and muffler are cold. (Otherwise, you will get burned.)

Tighten to a specified torque using a torque wrench. (Otherwise, improper tightening may cause the bolts or nuts to get damaged or come off.)

As some products and frames have sharp-pointed or protruding portions, please work with your hands protected. (Otherwise, you will suffer injuries.)

Before riding, always check every hardware for slack in parts like screws. If you find slack ones, screw them securely up to the specified torque.

(Or, improper torque may cause parts to come off.)

Be careful the brake fluid does not contact your skin. After work, wash your hands thoroughly with water. Otherwise, you will have a rough skin.

Please handle the brake fluid with great care, because the fluid, if spilled on painted surfaces, resin parts, or rubber products, will deteriorate or damage these parts. If the fluid is spilled on them, wash them immediately with water. Otherwise, the fluid spill will cause the deterioration or damage of these parts.

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

Installation of this Kit requires processing. So, when working, please take precautions to protect your eyes, face and hands for safety's sake.

(If metal fragments or others get in your eyes, this may cause your vision loss.)

When you notice something unusual with your motorcycle while riding down a road, immediately stop riding. (Otherwise, accidents may take place.)

Keep plastic bags for packing the products out of children's reach, or discard them. (If children get them on, there will be a danger of their suffocating.)

Before starting the work, secure your motorcycle firmly on level ground for safety's sake.

(Otherwise, your motorcycle could overturn and injure you while you are working.)

Do not get oil or grease on the brake disk rotor or brake pad. If oil &/or grease adhere to these parts, change the brake pad and degrease the brake disk rotor. Otherwise, oil or grease adherence may lead to accidents.

We recommend you to get the brake installed by a skilled mechanic at facilities with special instruments and tools. Otherwise, the wrong installation may cause accidents.

Carry out inspection and maintenance of your motorcycle correctly according to the instructions and guidelines in the instruction and service manuals. (Improper inspection or maintenance could lead to accidents.)

If you find damaged parts when inspecting or 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.)

We listed here the cautions and warnings for users to use these parts properly and also to prevent dangers and damages to users themselves and other people as well. All these are the envisioned dangers and damages which are feared to take place from wrong handling. So, please do follow these instructions for safety's sake.

Please be informed that, mainly because of improvement in performance, design changes, and cost increase, the part specifications and prices are subject to change without prior notice.

In placing a repair parts order with us, please quote the repair parts Item Nos. as well as the Item Nos. Should you have any questions about the repair parts, please contact your local motorcycle dealer.

This manual should be retained for future reference.

We do not take any responsibility for any accident or damage whatsoever arising from the use of the products not in conformity with the instructions in this Manual.

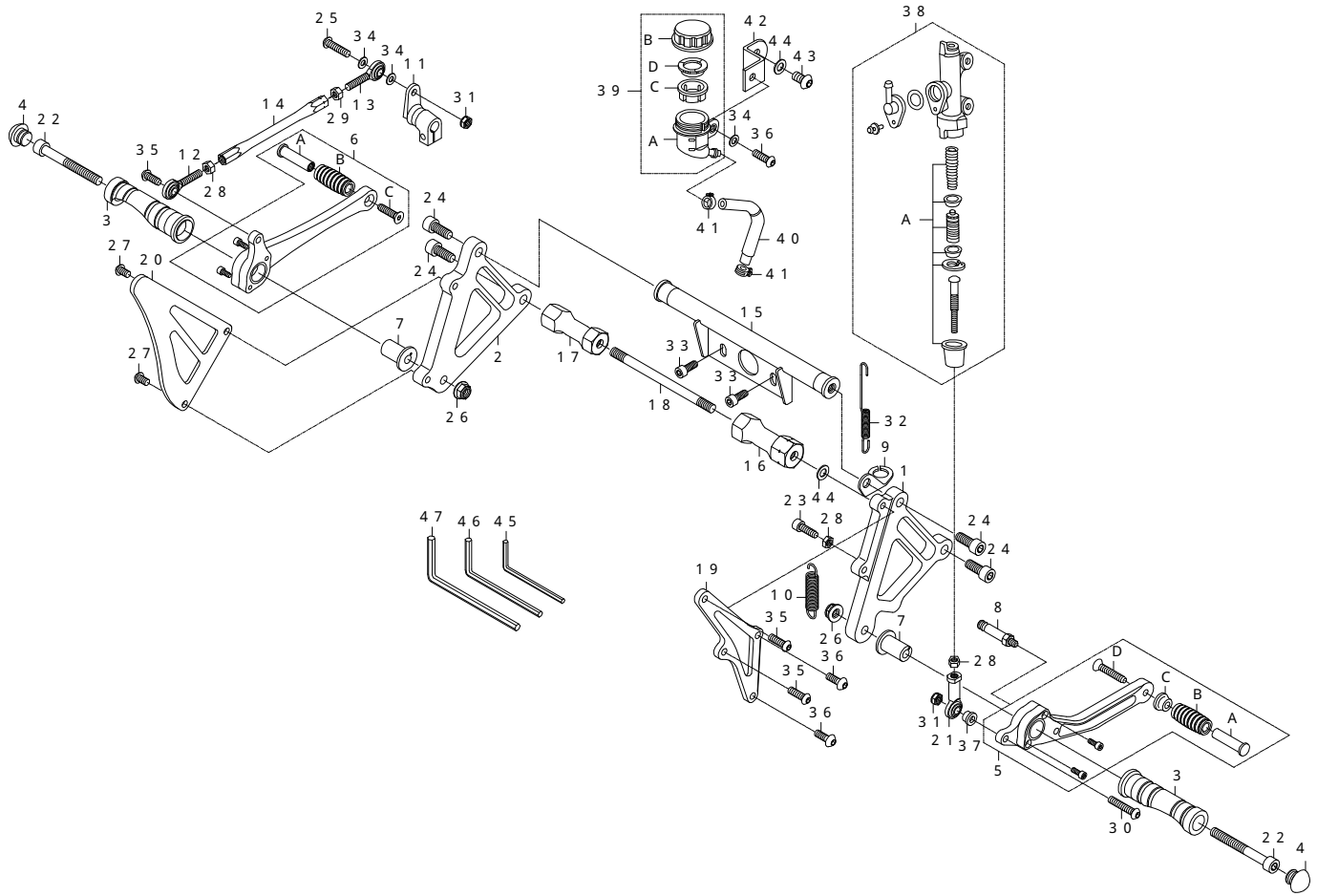
We shall be held free from any responsibility or compensation whatsoever for any glitch in the parts other than ours if the glitch takes place after the installation and use of this Kit.

You are kindly requested not to contact us about the combination of our products with other manufacturers'.

If you use a side stand, please use the side stand of Item No. 09-12-035.

This Kit can work only with a TAKEGAWA's kick starter arm of Item No. 09-10-004.

~ Kit Contents ~



No.	Part Name	Qty	Repair Part Item No.	in packs of	No.	Part Name	Qty	Repair Part Item No.	in packs of
1	Brake holder	1	50630-GEF-T00	1	24	Socket cap screw, 8 x 20	4	00-00-0117	4
2	Change holder	1	50710-GEF-T00	1	25	Button head screw, 6 x 25	1	00-00-0126	5
3	Foot rest	2	50640-181-T10	1	26	Flange lock nut, 8 mm	2	00-00-0080	5
4	Foot rest end	2	50641-181-T00	1	27	Button head screw, 6 x 12	2	00-00-0127	5
5	Brake pedal COMP.	1	46520-GEF-T00	1	28	Hex nut, 6 mm (Clockwise screw)	3	00-00-0128	10
5-A	Pedal	(1)	24701-181-T00	1	29	Hex nut, 6 mm L (Left-hand screw)	1	00-00-0129	10
5-B	Pedal rubber	(1)	06-08-0005	1	30	Button head screw, 6 x 30	1	00-00-0130	5
5-C	Pedal collar	(1)	46503-181-T00	1	31	Lock nut, 6 mm	2	00-00-0121	10
5-D	Flat head screw, 6 x 30	(1)	00-00-0119	4	32	Stop switch spring	1	00-06-0005	1
6	Change pedal COMP.	1	24700-GEF-T00	1	33	Flange socket cap screw, 6 x 16	2	00-00-0131	6
6-A	Pedal	(1)	24701-181-T00	1	34	Plain washer, 6 mm	3	00-00-0086	10
6-B	Pedal rubber	(1)	06-08-0005	1	35	Button head screw, 6 x 15	3	00-00-0132	4
6-C	Flat head screw, 6 x 25	(1)	00-00-0120	4	36	Button head screw, 6 x 20	3	00-00-0084	5
7	Pedal collar	2	46531-181-T00	1	37	Collar	1	43532-181-T00	1
8	Spring hook	1	46515-181-T00	1	38	Rear master cylinder sub ASSY.	1	06-08-1731	1
9	Stop switch stay	1	35351-GEF-T00	1	38-A	Master cylinder piston set	(1)	06-08-0012	1
10	Return spring	1	46514-181-T00	1	39	Reservoir tank COMP.	1	06-08-0006	1
11	Change arm	1	24702-181T-00	1	39-A	Cup COMP.	(1)	06-08-0013	1
12	Rod end 6 (6mm clockwise screw)	1	00-00-0122	1	39-B	Cap	(1)	06-08-0007	1
13	Rod end 6L (6mm left-hand screw)	1	00-00-0123	1	39-C	Diaphragm	(1)	06-08-0008	1
14	Change rod	1	24731-181-T00	1	39-D	Diaphragm plate	(1)	06-08-0009	1
15	Holder stay	1	95707-181-T01	1	40	Oil hose	1	00-07-0011	1SET
16	Mounting nut, S, marked	1	95702-181-T01	1	41	Hose clamp	2	00-00-0087	4
17	Mounting nut, L	1	95703-181-T00	1	42	Reservoir tank stay	1	43610-181-T00	1
18	Mounting shaft	1	95701-165-T00	1	43	Button head screw, 8 x 15	1	00-00-0085	4
19	Master cylinder bracket	1	43511-181-T00	1	44	Plain washer, 8 mm	2	00-00-0076	10
20	Heel guard, L	1	50722-181-T00	1	45	Hex wrench, 4 mm	1		
21	Rod end (6mm female screw)	1	00-00-0124	1	46	Hex wrench, 5 mm	1		
22	Socket cap screw, 8 x 60	2	00-00-0125	4	47	Plain washer, 6 mm	1		
23	Socket cap screw, 6 x 15	1	00-00-0042	10					

Please note that in ordering repair parts, be sure to quote the Repair Part Item No. Otherwise, we may not be able to accept your orders.

There are some parts, however, for which we are not in a position to accept your order in just the quantity to be used. In this case, please take them in the quantity packed.

Please check the kit contents, first.

⚠CAUTION : Be sure to prepare tools to suit your work.

⚠CAUTION : Check that the engine and muffler are cool.

⚠WARNING: Make sure that the bike is secure on level ground.

Unfasten three bolts on the left crankcase cover to remove the cover.

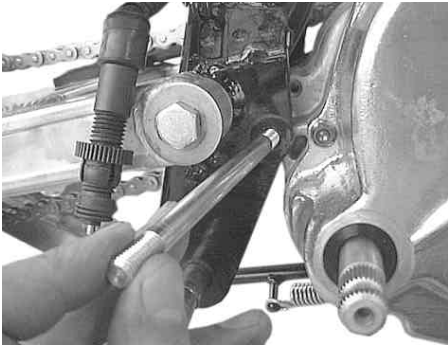


To remove stock brake pedals, unfasten a split pin holding the brake rod of stock brake pedals, and another split pin holding a brake return spring, stop switch spring and brake pedal.

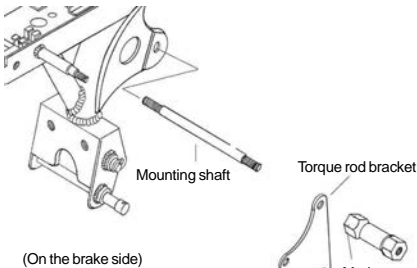
Unfasten four bolts which are holding a stock step bar to remove the step bar.

Remove the rear stop lamp switch from the frame.

Remove the stock kick pedals.



Replace the 8x98 mounting bolt in the lower part of the engine mount with a supplied mounting shaft.



Install the mounting nut onto the just-installed mounting shaft and tighten the nut.

⚠CAUTION : Be sure to follow the specified torque.

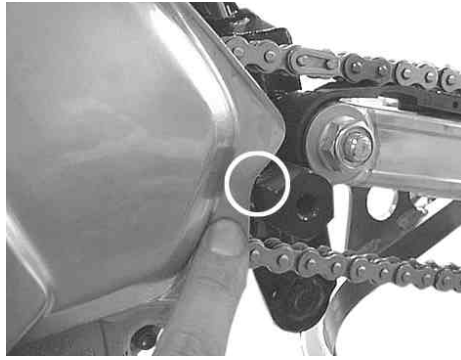
Torque: 25 N · m (2.5 kgf · m)

On the right (or brake) side

: Install a torque rod bracket and a marked mounting nut in this order onto the mounting shaft.

On the left (or change) side

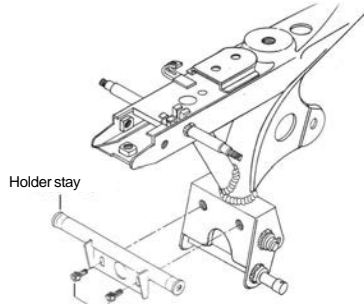
: Install the mounting nut to the mounting shaft.



Process, with a hand grinder, the detached left crankcase cover so the portion interfering with the mounting nut does not interfere any longer. After processing, file the edge portions smooth to be without a burr.

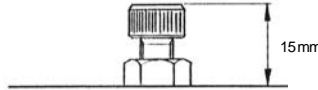
⚠WARNING: Be sure to wear eye, face and hand protectors during your work.

Install the left crankcase cover.



Flange socket cap screws

Fix loosely for now the holder stay into the tap on the frame, which held the rear fender, with a 6x16 flange socket cap screw.



With a 6x15 socket cap screw and a 6mm hex nut (clockwise screw), tighten and lock the 6mm hex nut (clockwise screw) at a tap on the rear side of the brake holder with a head of the 6x15 socket cap screw being 15 mm apart from the brake holder surface as shown in the figure above.

⚠CAUTION : Be sure to follow the specified torque

Torque: 10 N · m (1.0 kgf · m)



Install the master cylinder bracket to the brake holder and tighten it with a 6x20 button head screw.

⚠CAUTION : Be sure to follow the specified torque.

Torque: 10 N · m (1.0 kgf · m)



Install and tighten the heel guard L onto a change holder with a 6x12 button head screw.

⚠CAUTION : Be sure to always follow the specified torque.

Torque: 10 N · m (1.0 kgf · m)



Fit the pedal collar into the brake pedal COMP., and put the foot rest into the locating pin on the pedal collar. Similarly, fit the pedal collar into the change pedal COMP., and put the foot rest into the locating pin on the pedal collar.

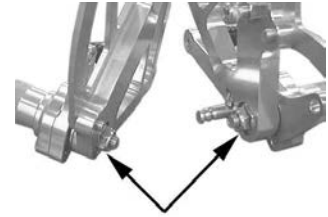
Put the footrest straight into the pedal collar so these parts are to be fit closely tight.



Attach the spring hook to the tap on the reverse side of the brake pedal COMP., and tighten it.

⚠CAUTION : Be sure to always follow the specified torque.

Torque: 10 N · m (1.0 kgf · m)



Install the brake pedal COMP. to the brake holder with an 8x60 socket cap screw and a flange lock nut, and tighten it.

And in the same way, install the change pedal COMP. to the brake holder with an 8x60 socket cap screw and a flange lock nut, and tighten it.

⚠CAUTION : Be sure to always follow the specified torque.

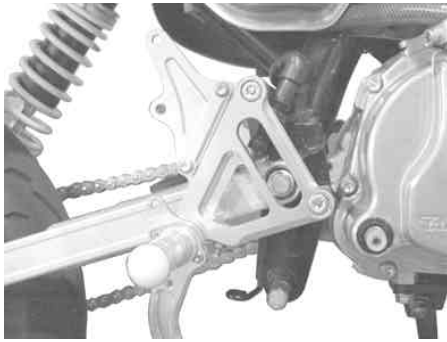
Torque: 27 N · m (2.7 kgf · m)



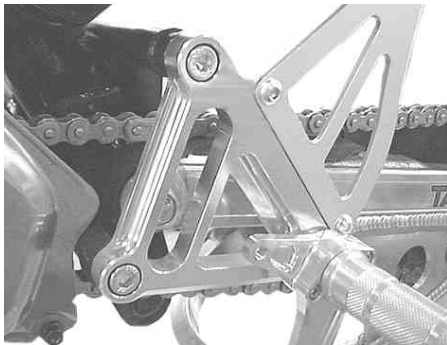
Beat in the supplied foot rest end into the foot rest with a plastic hammer or the like.



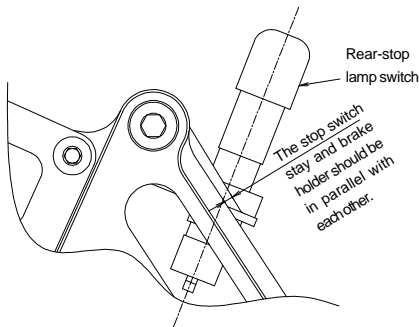
Install a rear stop lamp switch onto the stop switch stay.



In the following way, install, for now, the brake holder. Put the 8mm plain washer between the brake holder and mounting nut. Then, put the stop switch between the brake holder and holder stay, and install the brake holder with a socket cap screw, loosely for now.



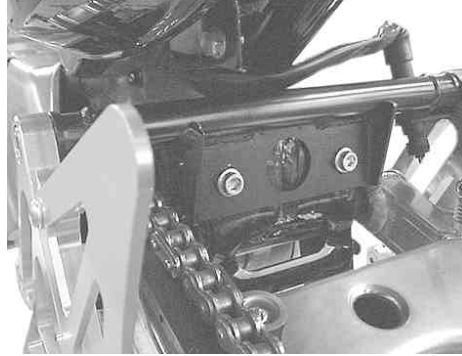
In the same way, loosely install the change pedal holder with an 8x20 socket cap screw.



As shown in the fig. above, decide where to locate the stop switch stay which was installed between brake holder and holder stay.

Decide on where to locate the brake holder and change holder, and tighten them to the specified torque.

△ CAUTION : Be sure to follow the specified torque.
Torque: 23 N · m (2.3 kgf · m)



Tighten the 6x16 flange socket cap screw, which is holding the holder stay, to the specified torque.

△ CAUTION : Be sure to follow the specified torque.
Torque: 14 N · m (1.4 kgf · m)



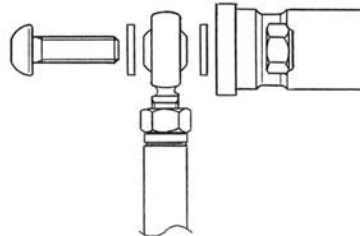
Install the supplied change arm to face upwards and tighten it.

△ CAUTION : Be sure to follow the specified torque.
Torque: 12 N · m (1.2 kgf · m)



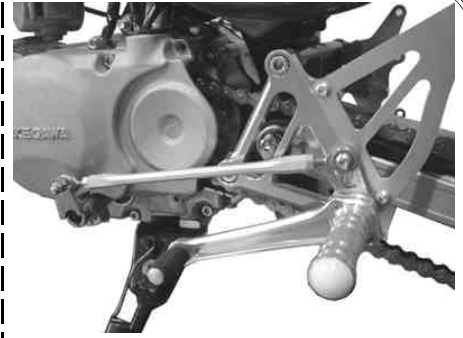
Screw in a 6mm hex nut L (left-hand screw) to the supplied rod end 6L (6mm left-hand screw), and install them on the marked tip of the change rod. And in the same way, install a rod end 6 (6mm clockwise screw) and a 6mm hex nut (clockwise screw) on the other tip of the change rod

As shown in the above fig., set the positioning of both of the rod end A's so they stick out the same length.



As shown in the figure below, place plain washers on both sides of the loosely installed rod end, which should be installed onto the change arm with a 6x25 button head screw and a lock nut.

△ CAUTION : Be sure to follow the specified torque.
Torque: 10 N · m (1.0 kgf · m)

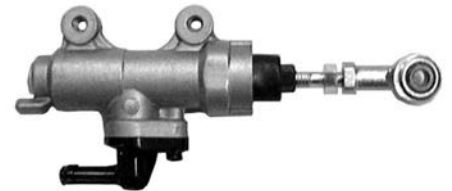


Install and tighten the other tip of the rod end as well onto the change pedal COMP., with a 6x15 button head screw.

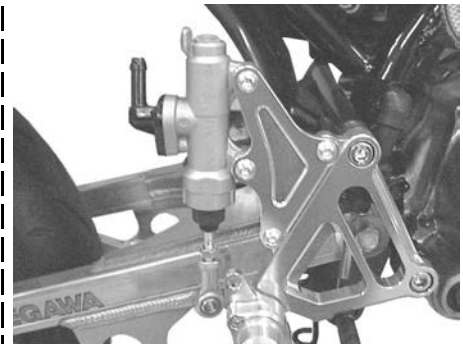
△ CAUTION : Be sure to follow the specified torque.
Torque: 10 N · m (1.0 kgf · m)

Adjust the positioning of the change pedal by turning the change rod, and tighten the 6mm hex nuts to lock the change rod.

△ CAUTION : Be sure to follow the specified torque.
Torque: 8N · m (0.8 kgf · m)

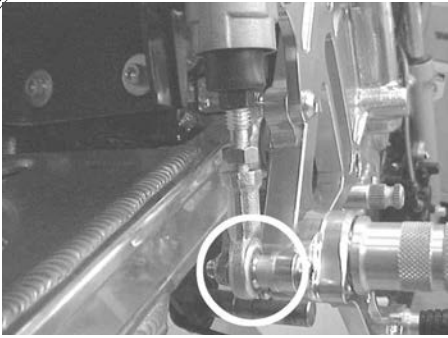


Install loosely for now the 6mm hex nut (clockwise screw) and rod end (6mm female screw) onto the rod on the master cylinder COMP.



Install and tighten the master cylinder COMP. onto the master cylinder bracket on the brake holder with the 6x15 button head screw.

△ CAUTION : Be sure to follow the specified torque.
Torque: 10 N · m (1.0 kgf · m)



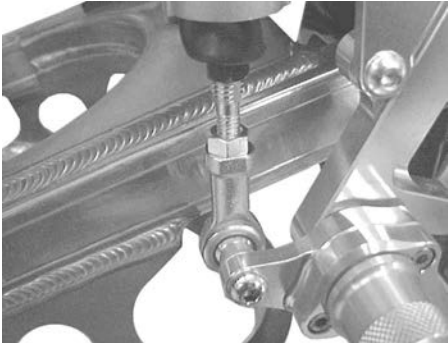
Place a collar between the rod end (6mm female screw) attached to the master cylinder and brake pedal, and install and tighten the master cylinder with a 6x30 button head screw and a lock nut.

△ CAUTION : Be sure to follow the specified torque.
Torque: 10N · m (1.0 kgf · m)



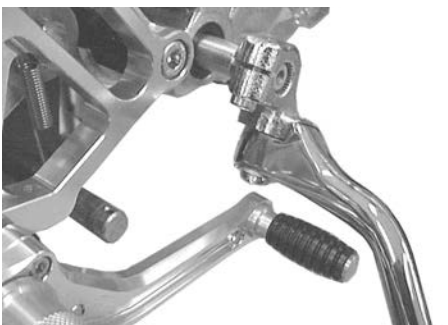
Install the kick starter arm.

△ CAUTION : Be sure to follow the specified torque.
Torque: 12N · m (1.2 kgf · m)



Turn the push rod on the master cylinder COMP, and adjust the location of the brake pedal. And tighten the 6mm hex nut (clockwise screw) to lock the pedal.

△ CAUTION : Be sure to follow the specified torque.
Torque: 10N · m (1.0 kgf · m)

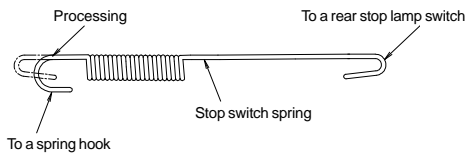


Set the positioning of the brake pedal so it does not interfere with the kick starter arm when you push down the kick starter arm to the end.



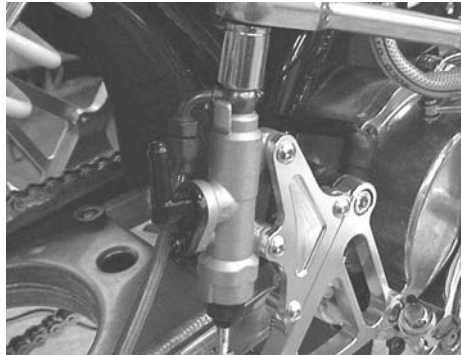
Fix a return spring to the following two: the 6x15 socket cap screw attached to the rear side of a brake holder, and the groove on the inside of a spring hook attached to the rear side of the brake pedal.

△ CAUTION : Do the work with great care, using a spring hook and other tools.



As shown in the figure, process the stop switch spring so it fits into the grooves on the outside of the spring hook installed onto the brake pedal.

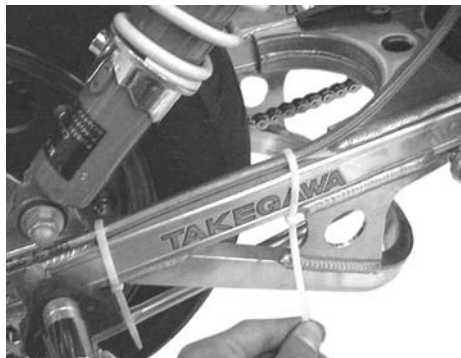
Attach the stop switch spring to the rear stop switch mounted on the stop switch stay.



Route the brake hose so the brake hose COMP. will not stretch tight when the hose is compressed to a maximum. And tighten the banjo bolt to the specified torque.

△ CAUTION : Be sure to follow the specified torque.

**Torque: 13 ~ 15N · m
 (1.3 ~ 1.5 kgf · m)**



Secure the brake hose with a Tie Wrap so it does not interfere with other parts, and cut off the excess portion of the Tie Wrap with a nipper.



Install a reservoir tank stay to the oil cup COMP. with an 8mm plain washer and 8x15 button head screw.

△ CAUTION : Be sure to follow the specified torque.
Torque: 10N · m (1.0 kgf · m)

Remove the seat.

Remove the carrier.

If our Rear Cowl Kit is installed onto your motorcycle, please remove the rear cowl.



On the motorcycle equipped with our Rear Cowl Kit, install the reservoir tank stay to the tap on the seat stay with a 6mm plain washer and 6x20 button head screw.

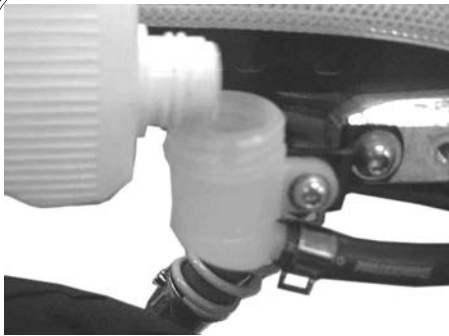
△ CAUTION : Be sure to follow the specified torque.

Torque: 22 N · m (2.2 kgf · m)

If a carrier was installed to your motorcycle, install the reservoir tank stay to the tap to which the carrier was attached.

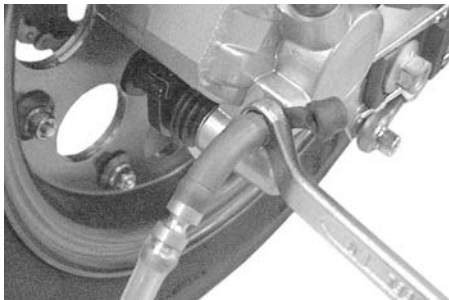


After deciding on how to route the oil hose, cut the oil hose. And attach it to the union on the oil cup and to the connector on the master cylinder COMP., and secure it with a hose clamp.



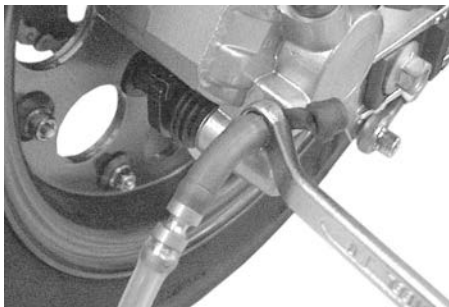
Detach the cap, diaphragm plate and diaphragm on the oil cup, and add the brake fluid up to the upper level mark on the oil cup.

⚠ CAUTION : Never produce air bubbles in the brake fluid container by shaking the container.



Connect the transparent bleeder hose to the bleeder valve on the rear caliper, and place a suitable cup at the other tip of the hose to receive brake fluid.

Give the bleeder valve half a turn to ease it. And repeat kicking down on the brake pedal and releasing it until brake fluid comes down from the bleeder valve in sufficient amount.



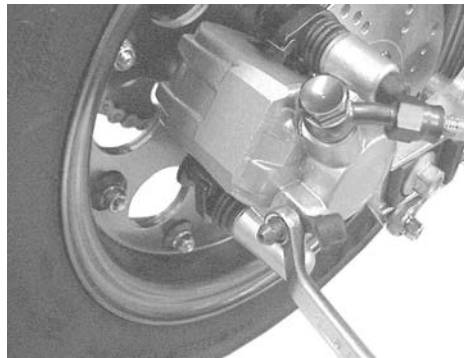
Do the work, adding new brake fluid, but paying heed to the amounts of brake fluid in the oil cup.

Tighten the bleeder valve of a rear caliper.

- 1 . Keeping the brake pedal pressed down, give half a turn to the bleeder valve to loosen it. And then tighten it again.
- 2 . Release the brake pedal slowly. And after it has returned back to the original position, leave it untouched for a few seconds.

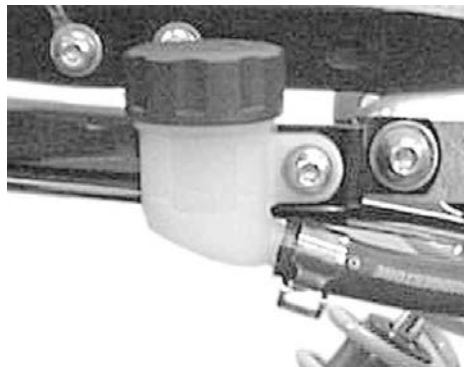
Repeat the above two procedures No. 1 and 2 until no bubble comes up from the bleeder valve. Please check the amount of remaining brake fluid once in a while. When the amount of fluid has come down close to the lower level line, add the fluid.

When the air does not come out any more from the bleeder valve, operate the brake pedal to check if no more air is mixed.



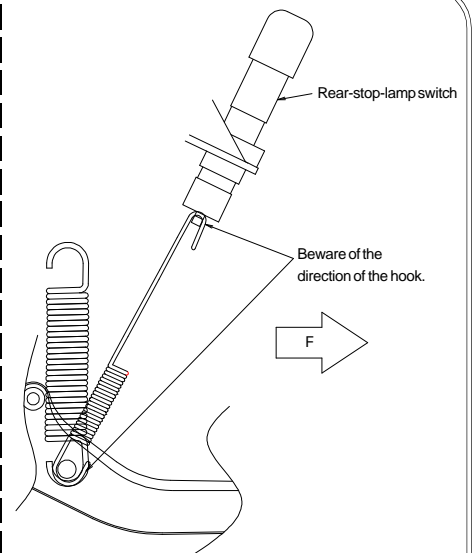
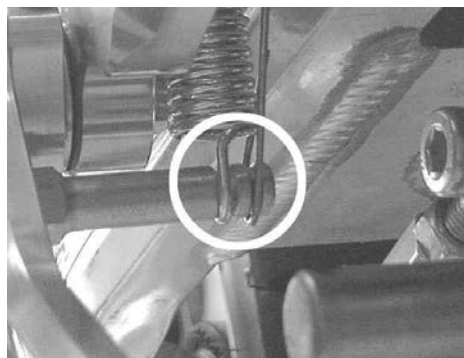
If you find that no more air is mixed, tighten the bleeder valve to the specified torque.

⚠ CAUTION : Be sure to follow the specified torque.
Torque: 6N · m (0.6 kgf · m)



Add the brake fluid up to the upper level mark on the oil cup, and attach the diaphragm, diaphragm plate and cap.

⚠ WARNING : Do not get a brake disc rotor or brake pad oil-stained. If any oil or grease adheres to them, change the brake pad and degrease the disk rotor.



Referring to the figure above, install the processed switch spring to the rear-stop-lamp switch and to the outer grooves on the spring hook.

On motorcycles installed with our Rear Cowl Kit, install the rear cowl and a seat.

In case your motorcycle is equipped with a carrier, detach a bolt which is holding the reservoir tank, install the carrier, and then, the oil cup by jointly fastening one of four bolts holding the carrier and the reservoir tank stay.

⚠ CAUTION : Be sure to follow the specified torque.
Torque: 24 N · m (2.4 kgf · m)

Mount the seat.

Finally, thoroughly wipe off dust and dirt on every hardware.

SPECIAL PARTS TAKEGAWA Co.,Ltd.

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Osaka Japan

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