

Big throttle body KIT Instruction manual

Product number 03-05-0163 (For SuperHead 4V+R)

Adaptation model	GROM (JC92-1000001 ~ 1099999)
	Monkey 125 (JB03-1000001 ~)

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 of ignoring the instructions that are written in the instruction manual, if an 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.

◎ Product may have edges or protrusions. Be sure to wear working gloves.

(Please wear work gloves when working, even if a photo in this article show without work gloves.)

◎ Caution: Reused parts, do not reuse severely worn or damaged; replace to new.

◎ This part is a product that was developed for the closed competition, please do not use public roads.

◎ Use this product with custom injection controller for specific model.

Please download (from our web) and use the preset data compatible with big throttle bodies.

(Download from two-dimensional code on the right.)



TYPE-e



TYPE-X

◎ Note: Fuel injector (G-1) (00-00-0487) is required to use this product.

◎ Will not be able to use the filter in the stock air cleaner box and will need to use the external filter (included).

Do not run Off-road or in the rain, where you will inhale a lot of dust and moisture.

When washing the car, be careful not to get water on the filter.

⚠ 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. When working, please wear work gloves to protect your hands. (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.)

■ During rotation of engine, do not incorporated carelessly looking through throttle body intake pipe. (There is that flame is injected, it is very dangerous.)

⚠ 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.)

■ If you start the engine, be sure in a well-ventilated place. In the sealed such place, please do not start the engine. (There is a risk of carbon monoxide poisoning.)

■ As gasoline is highly flammable, never place it close to fire. Make sure that nothing flammable is near the gasoline. Since vaporized accumulation of gasoline is at high risk of explosion, work in a well-ventilated place. (Otherwise it may cause a fire.)

◎ 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



Number	Product content	Quantity	Item Number
1	Big throttle body	1	03-05-0002
2	Rubber packing	1	00-03-0048
3	Intake manifold COMP.	1	00-03-0333 (For SuperHead 4V+R)
4	Insulator	1	00-03-0337 (with ⑤ 0-ring 2 pcs)
5	O-ring, 35mm	2	00-03-0008
6	Air filter COMP.	1	00-03-0338
7	Socket cap screw, 6x28	2	00-00-0723 (5 pcs)
8	Socket cap screw, 6x20	2	00-00-0721 (5 pcs)
9	Tube, 7.5x200	1	_____
10	Cap, 4x7x12	2	00-03-0011
11	Tube clip	2	00-00-2460 (5 pcs)
12	Cable tie, 150mm	1	00-00-0135 (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.

※ Repair parts may differ slightly from the kit contents in terms of shape, etc.

There is no problem to use it. Please be forewarned.

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

◎ Please use our FI controller and fuel injector (specified model) at the same time.

• FI controller TYPE-e for GROM(JC92-1000001 ~ 1099999) : 05-04-0122

• FI controller TYPE-X for Monkey 125(JB03-1000001 ~) : 05-04-0124

• Fuel injector (G-1):00-00-0487

※Installing the FI controller and other engine parts at the same time, some work will overlap, please thoroughly understand the contents of each kit's installation manual.

● Removal of exterior parts

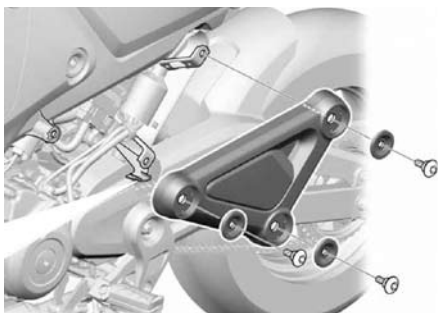
○ Remove the exterior parts following to the service manual

<For GROM>

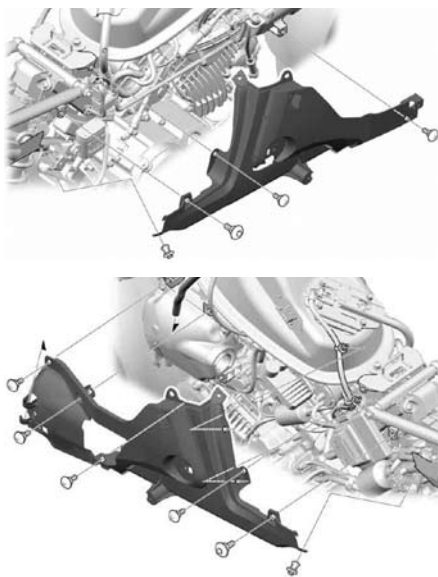
Shrouds (L and R)



Side cover (L and R)

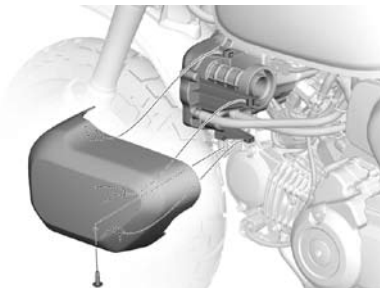


Fuel tank side cover (L and R)



<For Monkey 125>

Garnish (L and R)



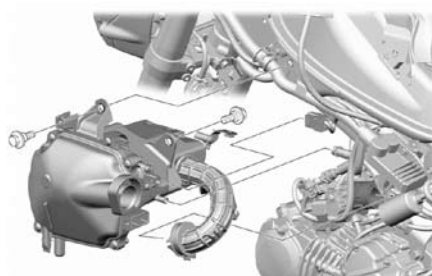
● Removal of air cleaner case, inlet pipe / throttle body

○ Disconnect the hoses and couplers of various sensors connected to the air cleaner case. Loosen the connecting tube band screw. Remove the bolts (L and R) of air cleaner case and frame.

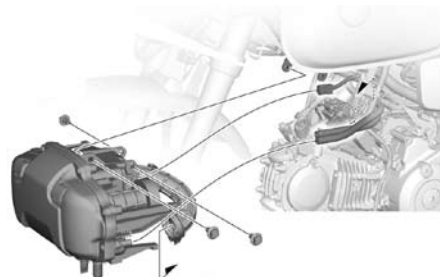
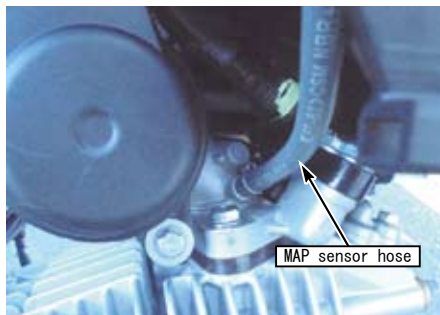
Pull out the connecting tube from the throttle body and remove the air cleaner case.

Monkey 125 disconnects the hose from the MAP sensor from the inlet pipe.

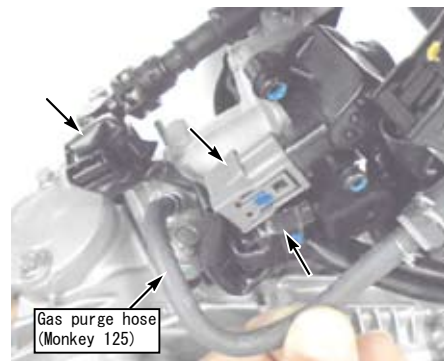
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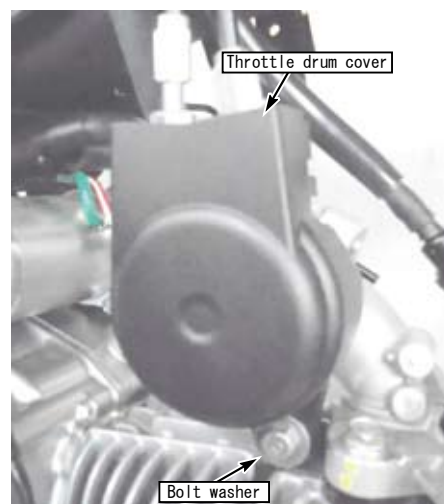
<For Monkey 125>



○ Disconnect the throttle opening sensor (3P) coupler, injector (2P) coupler, and solenoid (2P) coupler. Disconnect the gas purge hose from the inlet pipe.

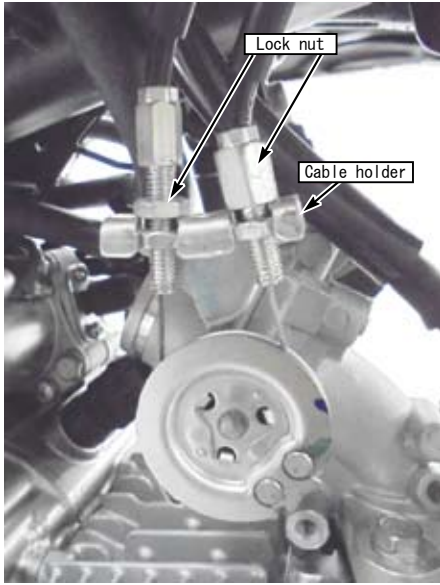


○ Remove the bolt washer and remove the throttle drum cover



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

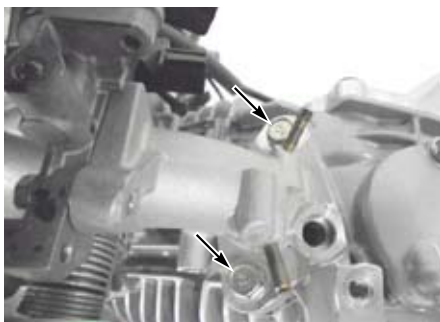
- Loosen the lock nuts and two throttle cables from the cable holder. Remove the two inner cables from the throttle drum.



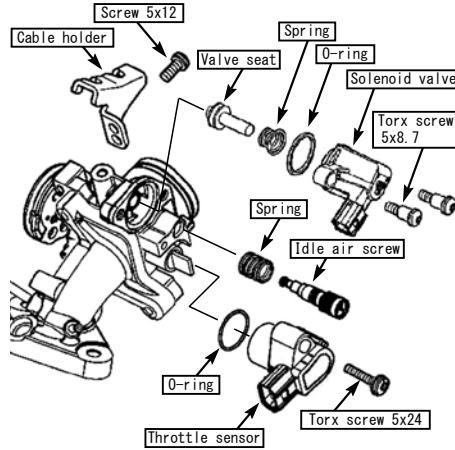
- Remove the two bolts and remove the injector joint, injector, and seal ring.



- Remove the two bolts from the inlet pipe and remove the manifold/throttle body and insulator from the cylinder head.



- Remove the breather hose from the crankcase. Remove the two hose clamps (will be reused).
 - Remove each screw and idle air screw/spring, cable holder, solenoid valve/0-ring/spring/valve seat and throttle sensor/0-ring from the stock throttle body.
- ※ The above parts will be reused.



● Installation of big throttle body and air filter COMP.

- Referring to the previous diagram, reuse each screw and 0-ring and install the throttle sensor, solenoid valve/spring/valve seat, and idle air screw/spring. Attach the throttle cable holder to the big throttle body.

▲ Note: Be sure that you protect specified torque.

Idle solenoid valve torx screw
Torque : 3.4N · m (0.3kgf · m)
Throttle sensor torx screw
Torque : 3.4N · m (0.3kgf · m)
Throttle cable holder screw
Torque : 3.4N · m (0.3kgf · m)

- Loosen the idle air screw by 1-7/8 turns from fully closed.



- Attach the big throttle body with the rubber gasket attached to the intake manifold COMP. (using two socket cap screws 6x20.)

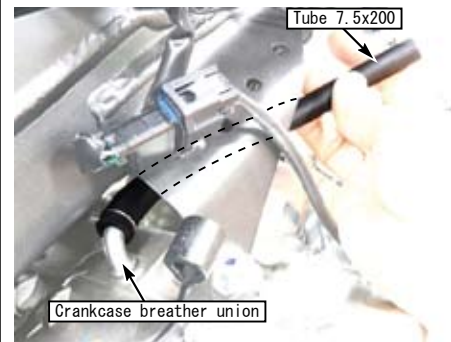
▲ Note: Be sure that you protect specified torque.

Socket cap screw, 6x20
Torque : 12N · m (1.2kgf · m)



※ Assemble order, it is difficult to install without assemble order. Please follow the steps below.

- Attach the tube 7.5x200 to the crankcase breather union using one stock hose clamp.

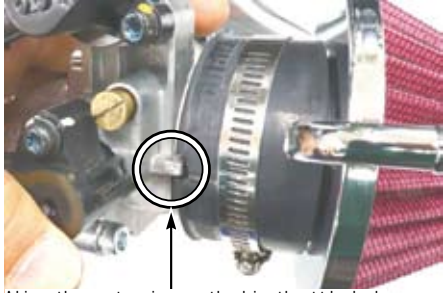


- For MONKEY 125, remove the fuel tank drain hose from the frame guide and avoid interference starter motor wiring to the air filter.

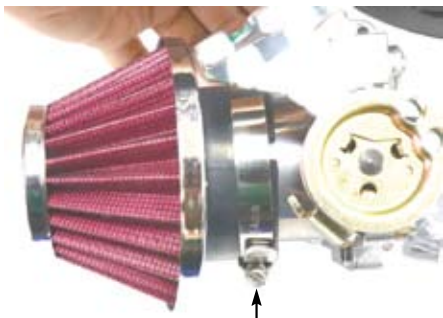
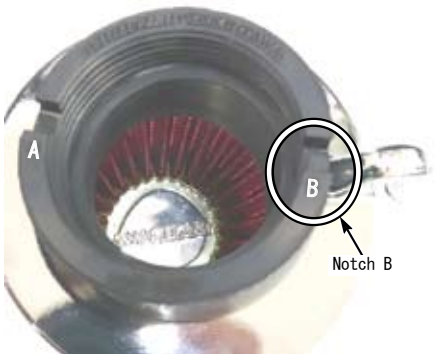


■ Mounting procedure ※ Please refer to the Genuine Service Manual for detailed mounting methods and specified torques that are not specifically described.

○ Inserted band into the rubber insulator (of the air filter), firmly fit it into the big throttle body and tighten the band. Please align the notch "B" of the rubber insulator with the protrusion of the big throttle body.



Align the protrusion on the big throttle body with the notch B on the rubber insulator.



Tighten and secure the band

○ Set the insulator with O-rings attached on both sides between the intake manifold and the cylinder head then attach to cylinder head (use two 6x28 socket cap screws).

※ Make sure that the O-rings are fitted into the grooves on both sides of the insulator. Note: match the inside shape of the insulator to the port shape of the cylinder head.

⚠ Note: Be sure that you protect specified torque.

Socket cap screw, 8x28
Torque : 12N · m (1.2kgf · m)



○ Cut the 7.5x200 tube to a length that can be easily attached to the union of the air filter.

Once remove the intake manifold /big throttle body/insulator.

○ Connect (the cut tube) to the air filter union using a stock tube clamp.



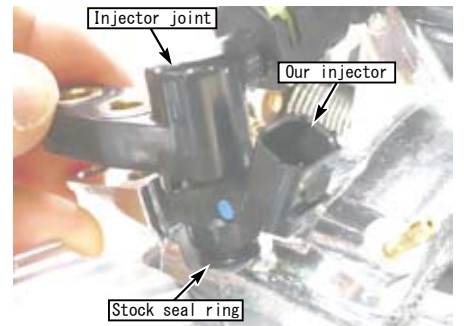
○ Attach the intake manifold/big throttle body/insulator to the cylinder head same way.



○ Insert our injector ASSY (sold separately) and the stock seal ring into the intake manifold and attach the injector joint with two bolts.

⚠ Note: Be sure that you protect specified torque.

Bolt
Torque : 12N · m (1.2kgf · m)

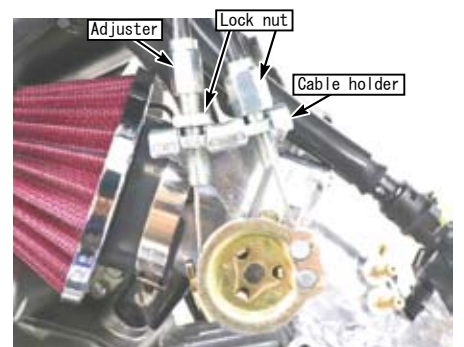


○ Connect the two inner cables to the throttle drum, attach the throttle cable to the cable holder, and adjust the play by turning the adjuster within appropriate range.

Tighten the lock nut after adjustment. Free play: 2mm to 6mm at throttle grip flange

⚠ Note: Be sure that you protect specified torque.

Lock nut
Torque : 4.5N · m (0.45kgf · m)



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

○ Set the throttle drum cover (according to the shape of the cable holder) and intake manifold and attach it with bolt washers.

⚠ Note: Be sure that you protect specified torque.

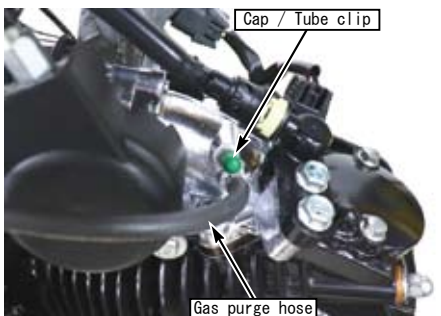
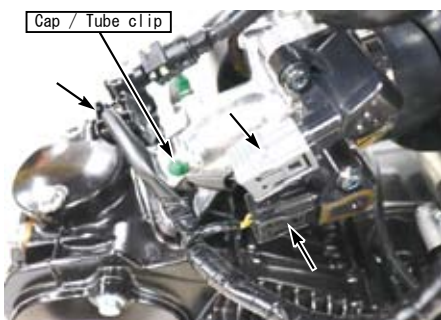
Bolt washer
Torque : 5.2N · m (0.5kgf · m)



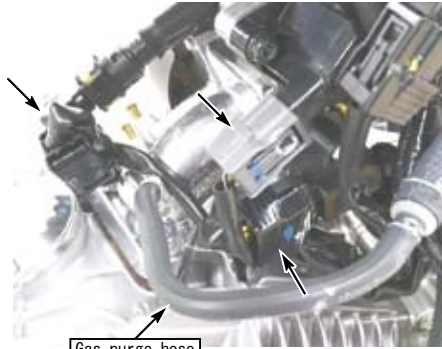
○ Connect the throttle opening sensor (3P) coupler, injector (2P) coupler, and solenoid (2P) coupler.
Connect the gas purge hose to the intake manifold.

Insert the cap into the union of the intake manifold and secure it with the tube clip.

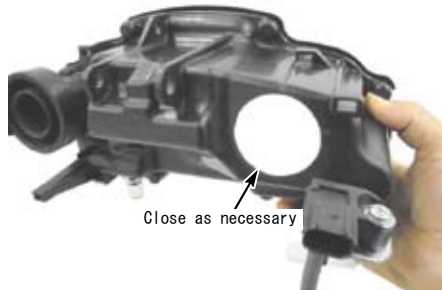
<For GROM>



<For Monkey 125>



○ Remove the connecting tube from the air cleaner case. After removing the connecting tube, cover the hole by pasting a cutting sheet, etc. as necessary.

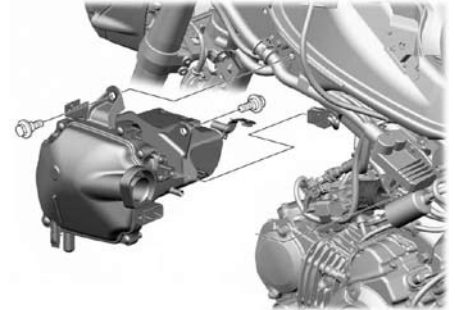


○ Set the air cleaner case on the frame and attach it with bolts following to the service manual.

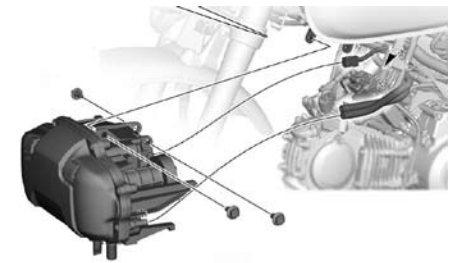
Connect sensor couplers, etc.

MONKEY 125: connects the hose from the intake pressure sensor to the union of the inlet pipe.

<For GROM>



<For Monkey 125>

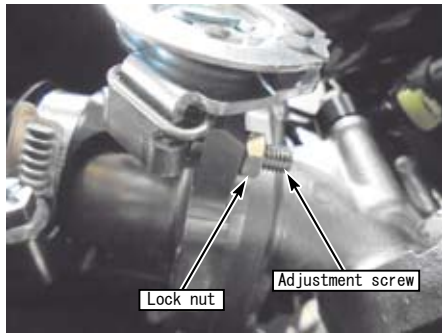


● Check and adjusting idling speed

- The adjustment screw is adjusted at the time of shipment, but individual differences, the idling speed after warm-up may not stay within the standard value. If it does not fall within the standard level, loosen the lock nut (at the bottom of the throttle drum) and adjust the screw.
 - At too low
 - ⇒ Tighten the adjustment screw.
 - Tighten the lock nut after adjustment.
 - At too high
 - ⇒ Loosen the adjustment screw.
 - Tighten the lock nut after adjustment.
- Standard idling speed: 1300rpm ~ 1500rpm

⚠ Note: When adjusting the idling, synchronize the throttle position with the FI controller TYPE-X.

⚠ Warning: Be sure to start the engine in a safe, well-ventilated area with great care.



● Tuning the throttle position

- Following to the instruction manual of FI controller TYPE-X, make adjustment to the actual throttle position and the throttle position data of FI controller TYPE-X to be synchronized.

● Installation of exterior parts

- Install the removed exterior parts referring to the genuine service manual.

