

Special Clutch Cover Kit (WET/Wire type) Instruction manual

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.
- ◎ Please refer to the genuine service manual for the above-mentioned compatible models for the assembly work.
- ◎ Although this product is mainly developed for WET clutch (wet type) specifications, it can be used even for DRY clutch (dry type) specifications without problems.
(Hereinafter, WET clutch specifications will be referred to as "wet type", and DRY clutch specifications will be referred to as "dry type".)
- ◎ Special tools are required to install the separator kit. Please prepare separately.
Oil filter wrench 79mm (15 notch) Takegawa parts number:08-02-0035
- ◎ Special tools are required to install this product. Please prepare separately.
Lock nut wrench Takegawa parts number:00-01-0152 Universal holder Takegawa parts number:00-01-1002
- ◎ When installing this product with a stock clutch, it is necessary to remove the separator from the R. crankcase cover.
- ◎ Caution: To install this product, you need to install the clutch inner kit (sold separately) and the install the designate transmission at the same time. Please select your kit from the following condition.

Product number	02-01-0151	Clutch cover kit
	02-02-0125	Separator kit
Adaptation model	GROM	(JC61-1000001 ~ 1299999) (JC61-1300001 ~)
	MSX125	
	MSX125SF	

Clutch inner kit	Transmission	Remarks
02-02-0081 Special clutch inner kit TYPE-R (Special clutch TYPE-R for close ratio transmission)	02-04-0295 TAF 5-speed close ratio transmission kit (For special clutch TYPE-R) ※ 1	02-04-0293 When the TAF 5-speed close ratio transmission kit (for stock clutch) ※ 2 is installed, 02-02-0081/0083 can be installed by using 02-04-0296 (TAF 5-speed close ratio transmission conversion kit).
02-02-0083 Special clutch inner kit TYPE-R (Slipper clutch) (Special clutch TYPE-R for close ratio transmission)		
02-02-0155 Special clutch inner kit TYPE-R (For stock main shaft)	Stock transmission or 02-04-0292 4-speed close ratio transmission gear set (For stock clutch) ※ 3	02-04-0293 02-02-0155/0156 can be mounted on the TAF 5-speed close ratio transmission kit (for stock clutch).
02-02-0156 Special clutch inner kit TYPE-R (Slipper clutch) (For stock main shaft)		

※ 1. The main shaft of the close ratio transmission kit has a TYPE-R designated special clutch inner kit

※ 2. The main shaft of the close ratio transmission kit has a designated for the stock clutch.

※ 3. Both uses stock main shaft.

~ feature ~

- Rack & pinion wire clutch cover that enables light and smooth operation.
- R. Crankcase cover is made of die-cast aluminum with black paint, and clutch cover is made of forged aluminum with shot blast.
- By adopting a paper cartridge oil element, the centrifugal oil filter can be removed and reducing the load on the crankshaft and improving engine response.
- Thermostat unit (02-01-5052: optional) can be installed. Thermostat prevents overcooling with oil cooler.
- The oil level window makes it easy to check the oil level.
- Filtered oil flows through the oil element by two passage (crankshaft / transmission) with this kit.
(In the stock clutch cover, only one crankshaft passage passes through the centrifugal filter from oil pump).
- ※ By connecting our bore-up cylinder (oil outlet equipped model) and oil line hose kit (00-07-0095: optional), the oil through the oil element can flow to the cylinder head.
- Clutch cover for Takagawa special clutch.
- Since the clutch is divided from the crank/transmission case, so that the engine oil and clutch oil can be used for different specifications (brand/viscosity).

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

- On the street, keep the legal speed and obey the traffic law.
(If you drive faster than the legal speed, you will be punished for violating the Road Traffic Act and speeding.)
- 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.)

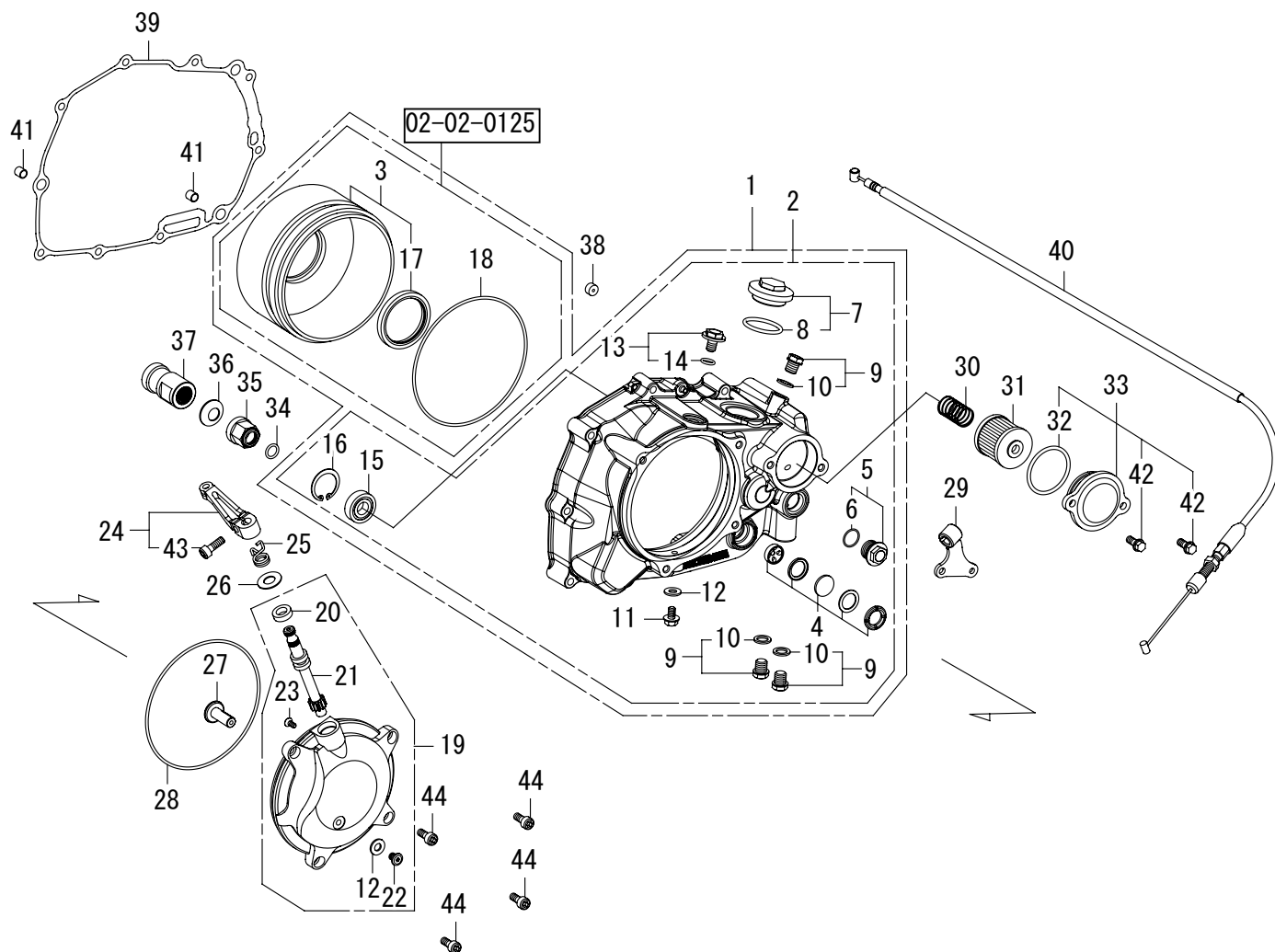
⚠ Warning When the handling of ignoring this display people died, shows the contents of the serious injury possibility is assumed.

- The technology and those who no knowledge, please do not to work. (The cause of parts damage etc., could result in falls and accidents.)
- 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.)
- 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.)
- The engine and exhaust system are hot while the engine is running or for a while even the engine is stopped. Never place dangerous or flammable materials such as gasoline near working area. (May caused 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

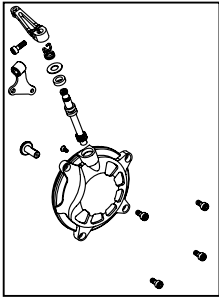
CONTACT Address : 3-5-16 Nishikiorihigashi Tondabayashi Osaka JAPAN
TEL: +81-721-25-1357 FAX: +81-721-24-5059 e-mail: english@takegawa.co.jp URL: http://www.takegawa.co.jp
Please contact with your name and country name provided. (Only English please)



Number	Product content	Quantity	Item Number
1	R.crankcase cover set	1	00-02-6211
2	R.crankcase cover ASSY.	1	00-02-6208
3	Separator COMP.	1	02-02-0125 (with O-ring)
4	Oil pot window set	1	00-02-0031
5	Thermostat hole cap	1	00-07-0063 (with O-ring)
6	O-ring, 15mm	1	00-00-0185 (5 pcs)
7	Hole cap	1	09-06-0131 (with O-ring)
8	O-ring, 30mm	1	00-01-0034 (4 pcs)
9	Oil plug bolt	3	00-07-0072 (with Sealing washer)
10	Sealing washer, 10mm	3	00-07-0106 (10 pcs)
11	Flange bolt, 6x12	1	00-00-0322 (6 pcs)
12	Sealing washer, 6mm	2	00-00-2780
13	Oil filler cap	1	00-02-0468 (with O-ring)
14	O-ring, 13mm	1	00-00-0644 (5 pcs)
15	Boll bearing, 6001Z	1	00-01-1011
16	C type ring, 28mm	1	00-00-0643 (3 pcs)
17	Oil seal, 54x70x9	1	00-02-0364
18	O-ring, 120mm	1	00-00-0656
19	Clutch cover COMP.	1	00-00-1089
20	Oil seal, 10x17x5	1	00-02-0006
21	Clutch release pinion	1	00-02-0033
22	Extra low head cap screw, 6x8	1	00-00-0642 (6 pcs)
23	Flat head screw, 4x10	1	00-00-0190 (6 pcs)

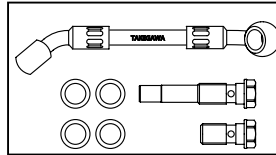
Number	Product content	Quantity	Item Number
24	Release arm	1	00-02-0469 (with bolt)
25	Clutch arm spring	1	00-02-0112
26	Plain washer, 10mm	1	00-00-0151 (10 pcs)
27	Release rack	1	00-02-0039
28	O-ring, 120mm	1	00-02-0188
29	Clutch cable receiver COMP.	1	00-00-1676
30	Oil filter spring	1	00-07-0065
31	Oil filter element	1	00-02-0027
32	O-ring, 40mm	1	00-02-0040
33	Oil filter cover	1	00-02-0470 (with O-ring/bolt)
34	O-ring, 12mm	1	00-00-0136
35	Oil through nut	1	00-00-2310
36	Conical spring washer, 14mm	1	00-02-0036
37	Spacer	1	00-00-1414
38	Orifice	1	00-00-1072
39	R.crankcase cover gasket	1	00-02-0356
40	Clutch cable COMP. 850mm	1	00-02-0133
41	Dowel pin, 8x12	2	00-00-0153 (2 pcs)
42	Flange bolt, 6x16	2	00-00-0879 (5 pcs)
43	Socket cap screw, 6x18	1	00-00-0720 (5 pcs)
44	Socket cap screw, 6x15	4	00-00-0718 (5 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.



Clutch cover kit (Wire type - Dry)
:02-02-0126

Cover kit for dry type clutch.
It is possible to use it as a dry type clutch with the clutch cover of this kit, but by replacing it with this special dry type clutch cover kit, you can obtain a better cooling effect due to the large ventilation hole.



Oil line hose kit:00-07-0095

By using with Takegawa oil outlet equipped (bore up) cylinder and this clutch cover kit, you can send clean oil through the oil filter element to the cylinder head.

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

※ 02-02-0125: When purchased with a separator kit

- Attach the separator COMP with O-ring (120mm) to the back side of the L. crankcase cover (of the special cover kit 02-01-0150), and tighten it to the specified torque using the oil filter wrench 79mm.

⚠ Note: Be sure that you protect specified torque.
Separator
Torque : 50N · m (5.0kgf · m)

- Apply a little amount of engine oil to the O-ring 120 mm, apply lock agent to the screw and tighten it.

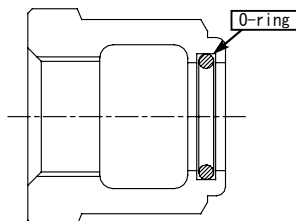
- ⊙ Be careful not to damage the L. crankcase cover when tightening.



- After installing the separator, proceed according to the installation procedure below.

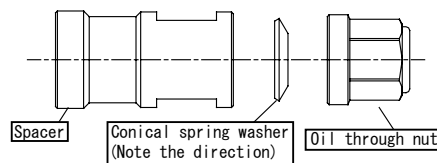
In addition, this manual is based on a wet type clutch, and when changing the specifications of the clutch cover, work according to the installation procedure of each clutch cover type to be used.

- When installing the close ratio transmission kit at the same time, refer to the close ratio transmission installation manual.
- Attach the O-ring (12mm) to the oil through nut and apply a engine oil to the O-ring.



- Attach the spacer, conical spring washer, and oil through nut to the crankshaft in this order, hold the spacer with a spanner, and tighten the oil through nut to the specified torque.

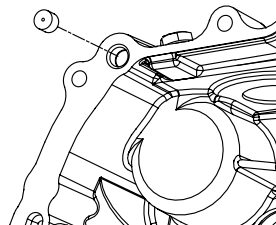
⚠ Note: Be sure that you protect specified torque.
Nut
Torque : 64N · m (6.6kgf · m)



- Attach the primary driven gear assembly by referring to the installation manual for the special/dry clutch inner kit TYPE-R.

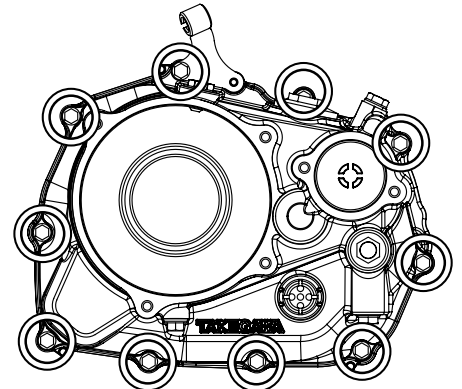
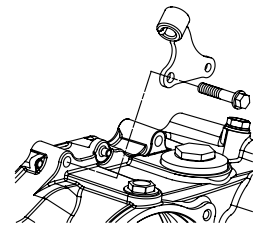
Installing the clutch cover

- Clean the gasket surface of the R. crankcase, attach the dowel pin, and install a new R. crankcase cover gasket.
- Attach the orifice in the kit to the back of the R. crankcase.



- Attach R. Crankcase cover, clamp and cable receiver COMP. with genuine bolts, divide bolts several times diagonally and tighten to specified torque.

⚠ Note: Be sure that you protect specified torque.
Bolt
Torque : 10N · m (1.0kgf · m)



- Attach the clutch by referring to the installation manual for the special clutch inner kit TYPE-R.
- Attach the O-ring (120mm) to the clutch cover and apply a engine oil to the O-ring.

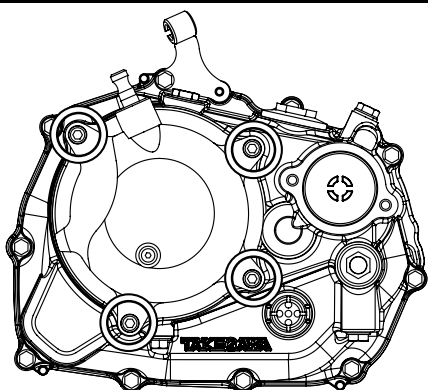


- Apply grease to the release rack and attach it to the clutch cover.



- Attach the clutch cover to the R.crankcase cover, install it with the socket cap screw(6x15) and tighten it to the specified torque.

▲ Note: Be sure that you protect specified torque.
Socket cap screw, 6x15
Torque : 10N · m (1.0kgf · m)



Installing the oil filter cover

- Place the oil filter spring in the R.crankcase cover (fit it into the guide of the case), put the oil filter, attach the O-ring(40mm) to the oil filter cover, apply engine oil, and attach the flange bolt(6x16). Tighten with specified torque.

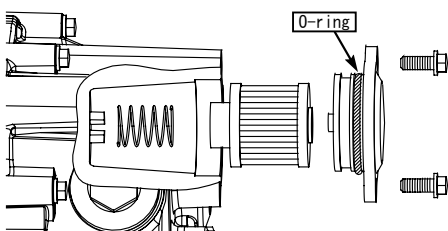
▲ Note: Be sure that you protect specified torque.
Flange bolt
Torque : 10N · m (1.0kgf · m)

※ Make sure the oil filter attached the guide on the oil filter cover.

※ Caution: If the oil filter spring does not fit inside of the guide(of the oil filter), there will be a gap between the oil filter cover and the R.crankcase cover. This may cause the oil leaks.

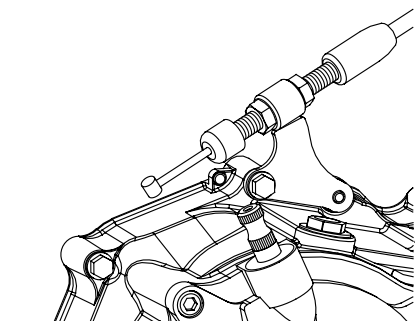
※ Install the O-ring at the position shown below.

Caution: Incorrect installed O-ring is may caused damage engine.

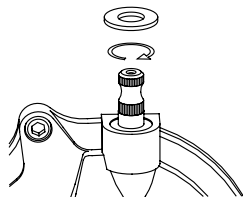


Installing the clutch cable

- Attach the clutch cable to the clutch lever and route it to the clutch cable receiver for the cable is not overloaded.
- Attach the adjuster of the clutch cable to the cable receiver.

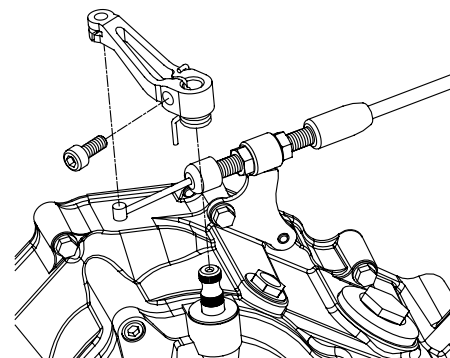


- Turn the clutch release pinion clockwise until it stops, and insert a plain washer into the release pinion.



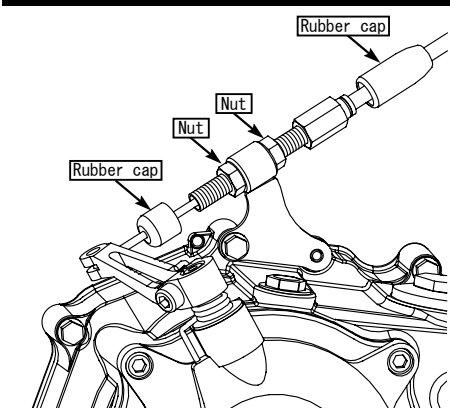
- Attach the cable end to the release arm, set the release arm spring, insert the inner cable into the release pinion while the cable pulled, and hook the arm spring to the cover.
- Attach the socket cap screw(6x18) to the release arm and tighten the socket cap screw to the specified torque with the arm pushed in.

▲ Note: Be sure that you protect specified torque.
Socket cap screw
Torque : 10N · m (1.0kgf · m)



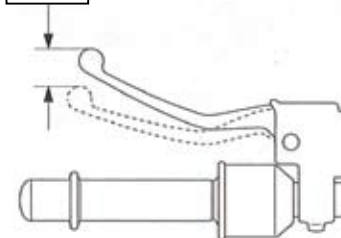
- Adjust the clutch free play at the adjustment part of the clutch cable, tighten the nut to the specified torque, and cover each with a rubber cap.

▲ Note: Be sure that you protect specified torque.
Nut
Torque : 10N · m (1.0kgf · m)

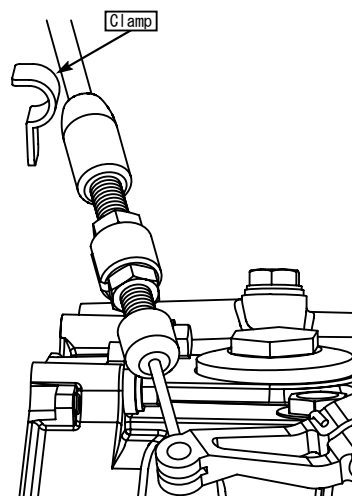


Clutch free play
10 to 20 mm at the clutch lever end

10 ~ 20mm



- For GROM(JC61-1300001 ~), MSX125SF
Since the rubber cap of the clutch cable and the clamp welded to the frame are close to each other, if they interfere, bend the clamp and provide clearance.



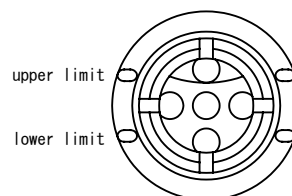
- Re-assemble the parts by referring to the service manual.

After assembly

- After confirming that the drain bolt {T=24N · m(2.4kgf · m)} is tightened, pour engine oil, attach the O-ring to the hole cap, apply a small amount of engine oil to the O-ring. Tighten to the specified torque.

▲ Note: Be sure that you protect specified torque.
Hole cap
Torque : 12N · m (1.2kgf · m)

- ※ Check the amount of oil in the oil level check window frequently, and if it is below the lower limit, add the oil.



∴ Recommended oil

SAE 10W-40 20W-50

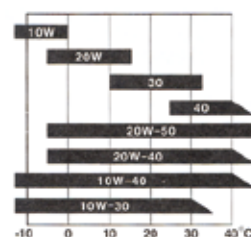
API classification : SG, SH, SJ, SL equivalent
JASO standard : MA

∴ Oil capacity

When changing oil : 750cc

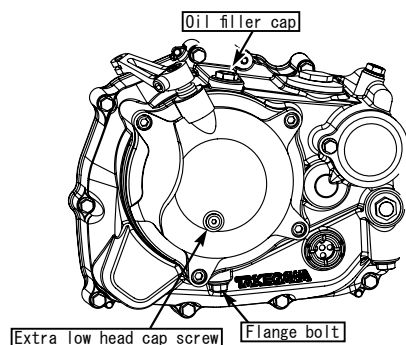
When overhauled : 950cc

- For the engine oil viscosity, refer to the figure and use the oil with the viscosity suitable for the environment and the outside temperature.



- Removing the oil filler cap and the low head cap screw, pour engine oil and pour until the engine oil comes from the hole at low head cap screw.
Install the oil filler cap and low head cap screw and tighten them to the specified torque.

⚠ Note: Be sure that you protect specified torque.
Oil filler cap
Torque : 12N · m (1.02gf · m)
Extra low head cap screw
Torque : 6.3N · m (0.63kgf · m)



- ※ Check the amount and change the oil frequently. Remove the flange bolt {T=12N · m(1.2kgf)} and drain the oil.
- ※ Amount of oil in clutch chamber : approx. 105cc
- ※ The viscosity and amount of engine oil affects the of clutch disengagement.
Caution: not to use high viscosity or over amount.
- ※ As described above, this clutch cover is design to be used as a wet type clutch but it can also be used as a dry type clutch without oil. Caution when use as Dry type clutch
 - When using it as a dry type clutch, "Remove the flange bolts(not use)" because condensation may form inside the clutch chamber.
 - After using as the wet type clutch and like change to use as a dry type clutch, use the new friction disc and degrease all other parts. the remains oil may cause seizing.

- Without start engine, shift the transmission to the 1st gear and hold the clutch lever.
When the pushing chassis, confirm that the rear wheel rotates. And make sure when the clutch lever is released the rear wheel does not rotates.
- Start the engine with the transmission in neutral and check for not oil leaks in each part.

⚠ Warning : Be sure to start the engine in a well-ventilated place.

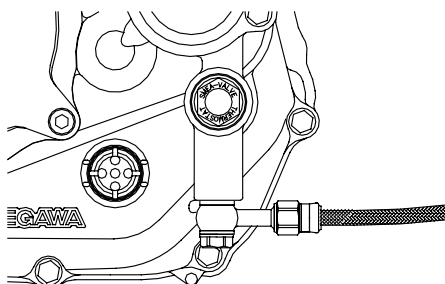
- If there is no abnormality, run a low speed running test in a safe place and check the clutch operation.

Caution

Precautions when installing an oil cooler

- When installing an optional thermostat unit

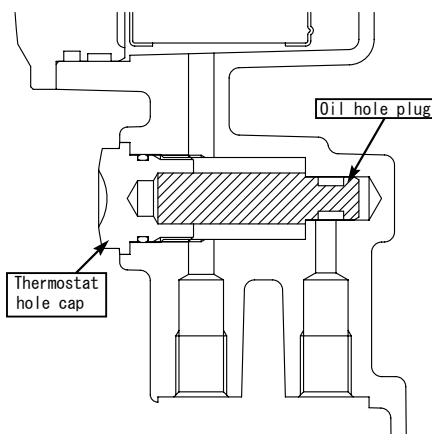
- Installing the thermostat unit.
- Remove the two oil plug bolts, attach an adapter that matches the type of hose to be used, and connect the hose.
- ※ Check the thermostat unit instruction manual.
- ※ Check the oil cooler kit instruction manual and adapter instruction manual.



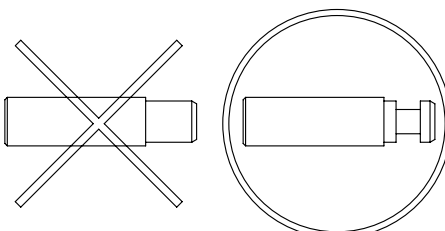
- When not installing the thermostat unit

- Remove the thermostat hole cap and insert the oil hole plug (00-02-0391) into the oil hole.
- Apply engine oil to the O-ring of the thermostat hole and tighten the hole cap to the specified torque.

⚠ Note: Be sure that you protect specified torque.
Hole cap
Torque : 13N · m (1.3kgf · m)



- Do not use oil hole plugs (00-02-0111).



⚠ Note: If use the oil hole plug (00-02-0111), the oil passage will be closed and the engine may be damaged.

- When installing an oil hose to the oil outlet of the cylinder

⚠ Note: Never attach the thermostat unit or oil hole plug when the oil hose is not connected to the clutch cover. Oil passage will closed and engine may be damaged.

When not installing an oil cooler

- Never install a thermostat unit or oil hole plug.
Remove a thermostat unit or oil hole plug.

⚠ Note: When the thermostat unit or oil hole plug is installed, the oil passage is closed and the engine may be damaged.