

## ■ Super head 4V+R combo kit (with big throttle body)

For GROM - MSX125

Newly released 4 valve cylinderhead "Super Head 4V + R with big throttle body " for GROM/MSX125!!



### ■ Big throttle body kit

It can bring out maximum performance of Super head 4v + R, and it will achieved a high output.  
With a connecting tube that can be connected to the genuine air cleaner box.

### ■ Super Head 4V + R (1 cam 4 valve)

Since designed an original cylinderhead shape for 4 valve, achieved high output.

### ■ Intake and exhaust efficiency of SOHC premier class

Valve diameter : IN : 25mm×2 / EX : 21.5mm×2  
Valve stem shaft diameter: IN, EX both 4.5mm  
By adopting the unequal pitch valve spring, to prevent surging at high rotation.

### ■ Auto decompression camshaft

Without imposing a strain on the cell motor, it enables smooth engine start-up.

### ■ Forged aluminum roller rocker arm

It is possible to reduce the frictional resistance between the camshaft, achieved the smooth operation !!



Combustion chamber configuration



Forged aluminum roller rocker arm



Aluminum-cast piston



Big throttle body kit

### ■ Super Head 4V + R (1 cam 4 valve)

By increasing to two each in and ex valves to expand the valve curtain area, achieved a high intake and exhaust efficiency. Since designed an original cylinderhead shape for 4 valve, achieved high output. Combustion chamber is finished with high accuracy by NC machining.

### ■ Intake and exhaust efficiency of SOHC premier class

Valve diameter : IN : 25mm×2 / EX : 21.5mm×2 Valve stem shaft diameter: IN, EX both 4.5mm  
By adopting the unequal pitch valve spring, to prevent surging at high rotation.

Painted black to the surface of cylinder. Since inspection breather cover is included, it is possible to let out the internal pressure of the engine by purchasing the oil catch tank kit separately.

Billet aluminum inspection breather cover and inspection cover are beautiful chrome plated.

Adopted an aluminum die-cast barrel polishing finish to the L. cylinder head side cover.

### ■ Forged aluminum roller rocker arm

It is possible to reduce the frictional resistance between the camshaft, achieved the smooth operation !!  
■ Auto decompression camshaft Without imposing a strain on the cell motor, it enables smooth engine start-up.

■ Adopted all-aluminum ceramic plated cylinder. Bore diameter: 63mm Stroke 57.9mm (Genuine one) All-aluminum ceramic plated cylinder has excellent durability, tightness, heat dissipation.

Since equipped with oil outlet to the cylinder, it is possible to inhibit the oil temperature rise by purchasing the oil cooler kit separately. Painted black to the surface of cylinder.

■ Aluminum-cast piston Compression ratio 12.5:1 Adopted a high compression specification piston in pursuit of high performance and durability. Piston top is finished with high accuracy by NC machining.

### ■ Big throttle body kit for Super head 4V + R

It can bring out maximum performance of Super head 4v + R, and it will achieved a high output. You can enjoy the engine characteristics up to a high speed range without any stress.

Big throttle body bore diameter: φ34

With a connecting tube that can be connected to the genuine air cleaner box.

### ■ FI CON2 (injection controller) for Super Head 4V + R (Correspond to a big throttle body.)

Controller already has preset data for Superhead 4V + R and It can be changed the settings easily by switching the rotary switch of the main body. Not necessary cumbersome PC connection. Large capacity injector is included. Built-in maps of the fuel injection, can be increased or decreased slightly by simply turning the rotary switch. Also it has a rev limiter cut function. Because that comes a dedicated harness, can be installed with a minimum of wiring processing.

※There are two kinds of FI CON2, for GROM and for MSX125. Each controller is exclusive use.

## ■ Super head 4V+R combo kit (with Big throttle body kit)

FOR GROM · MSX125

### ■ Super head 4V+R bore up kit 181cc

Kit includes Super Head 4V + R cylinder head kit, cylinder kit, cam shaft.

※FI CON2 is required simultaneously.

■ We recommend to purchase our big throttle body kit separately to bring out max power.

※Be careful that there are two kinds of FI CON 2, one is for GROM and the other is for MSX125.

### ■ Big throttle body kit for Super head 4V+R

It can be bring out maximum performance of Super head 4v + R, and it will achieved a high output. With a connecting tube that can be connected to the genuine air cleaner box. You can enjoy the engine characteristics up to a high speed range without any stress.

Big throttle body bore diameter:  $\phi 34$

### ■ FI CON2 for Super Head 4V + R (Injection controller) (Correspond to Big throttle body) Large capacity injector is included.

Controller already has preset data for Superhead 4V + R and It can be changed the settings easily by switching the rotary switch of the main body. Not necessary cumbersome PC connection. Large capacity injector is included. Built-in maps of the fuel injection, can be increased or decreased slightly by simply turning the rotary switch. Also it has a rev limiter cut function. Because that comes a dedicated harness, can be installed with a minimum of wiring processing.

※Be careful that there are two kinds of FI CON 2, one is for GROM and the other is for MSX125.

※It is only for Super Head 4V + R. Cannot be used to a stock cylinder head.

※Don't install the HID kit simultaneously.

■ Can be used with our LED headlight kit simultaneously.

### ■ To the customer who are using FI CON2 for Super head 4V+R (for genuine throttle body) (05-04-0021/05-04-0022)

If you own 05-04-0021 or 05-04-0022, and want to install our big throttle body kit, it is necessary to change the program of fuel injection controller.

■ Program version up : For GROM 12-05-0010 For MSX125 12-05-0011

### ■ Super head 4V+R Combo kit 181cc (with Big throttle body)

Kit includes FI con2 for Super head bore up kit 181cc, a big throttle body kit, and a spark plug

■ We recommend to use with strengthened clutch springs (30%UP) 02-01-0144 simultaneously.

※Be careful that there are two kinds of combo kit, one is for GROM and the other is for MSX125.

※To attach the big throttle body kit, processing of genuine air cleaner box is required.



Super head 4V+R bore up kit 181cc



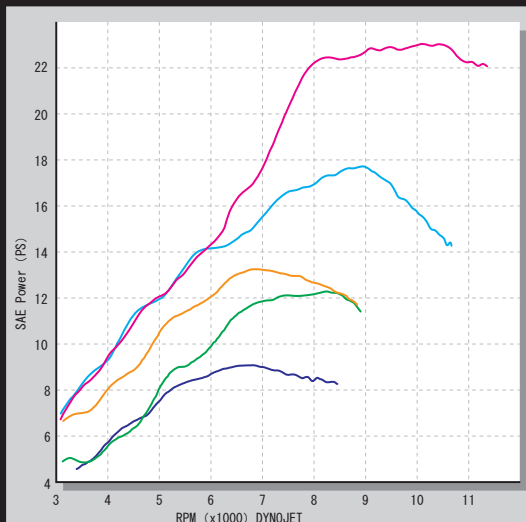
Big throttle body kit



FI CON2 (Injection controller)



Super head 4V+R combo kit 181cc



■ Super head 4V+R combo kit 181cc  
(Correspond to big throttle body) + Bomber exhaust system  
■ Super head 4V+R bore up kit 181cc  
+ Genuine throttle body + Bomber exhaust system  
■ HyperS-Stage Bore up kit 181cc + Cone oval exhaust system  
■ Hyper e-Stage bore up kit 143cc + Cone oval exhaust system  
■ Genuine engine + genuine exhaust system

※Tested at the condition of our test facility, actual power may vary.

Name	Super head 4V+R bore up kit 181cc
Applicable model	GROM (JC61-1000001~) MSX125 (MLHJC618_D5000001~)
Item number	01-05-0501

Name	FI CON2 (Injection controller) (Correspond to big throttle body)
Applicable model	GROM (JC61-1000001~)
Item number	05-04-0023

Name	Super head 4V+R combo kit 181cc (Correspond to big throttle body)
Applicable model	GROM (JC61-1000001~)
Item number	01-05-0503

Name	Big throttle body kit (For Super head 4V+R)
Applicable model	GROM (JC61-1000001~) MSX125 (MLHJC618_D5000001~)
Item number	03-05-0125

Name	FI CON2 (Injection controller) (Correspond to big throttle body)
Applicable model	MSX125 (MLHJC618_D5000001~)
Item number	05-04-0024

Name	Super head 4V+R combo kit 181cc (Correspond to big throttle body)
Applicable model	MSX125 (MLHJC618_D5000001~)
Item number	01-05-0504