

High-comp piston kit/Hyper tuning set

Z125 PRO

All new high-comp piston kit will be available that will allow you to increase the power just replacing the piston for the Z125 PRO without changing the displacement. Moreover, by installing our exhaust system in the hyper tuning set, we will demonstrate high performance which is not available to other manufacturers.



High-comp piston kit By balancing the optimum piston design and compression ratio, we can demonstrate high performance not found in other manufacturers

Without changing the displacement for the Z125 PRO, using a stock cylinder and cylinder head, by exchanging only the piston, output can be increased. It is a piston pursuing an optimum piston design to the details in order to realize high compression of piston, high efficiency combustion and low friction.

※This kit will accept High octane gasoline only.

Sports Camshaft(N-10) Built-in auto decompression mechanism are equipped same as stock.

The optimal profiles to maximize the performance of the stock cylinder head, the output performance will improve.

■If you have installed only our camshaft with the stock piston and the stock exhaust system, there is no need for FI CON TYPE e (Injection controller).

※If you have installed simultaneously our TAKEGAWA exhaust system and sports camshaft, the FI CON TYPE-e (Injection controller) is required.

New design, Big throttle body kit $\Phi 34$

It is a "Big throttle body kit" targeted at vehicles fitted with our sports cam shaft and FI CON TYPE-e (injection controller), or S stage bore up kit. By installing, engine characteristics and output power can be increased without stress. By adopting the newly designed original big throttle body, the output performance in the high rpm range, which is not in the stock throttle body specification, improves, and it is possible to obtain the engine characteristics that drives without stress.

■Air filter for "Big throttle body" (with blow-bypass adaptor) ■Our original inlet pipe (for stock cylinder head)

■Shroud bracket (black painted steel)

With the same fitting as genuine, you can place the both left and right shrouds. In addition, you can install our oil cooler kit inside of the shroud. (sold, separately).

※To install our Oil Cooler Kit, it is necessary to have our special clutch cover at the same time.

FI CON TYPE-e(Injection controller)

By installing our bore-up kit and exhaust parts, it will deviate considerably from the best air-fuel ratio, so it is necessary to correct the fuel injection time with our "FI CON". It can easily be installed only plug into the genuine ECU's coupler. "FI CON TYPE-e" has multiple pre-set mapping by our factory and you can easily select, change, and correct the mapping data for your engine specification with PC or smartphone. Adjustment of maximum injection time can be increase 5000 μs , and decrease 7500 μs , which can be used widely from stock displacement to bore-up engine. It can be monitoring of engine speed, temperature, throttle opening angle and injector opening / closing rate by PC and smartphone, so you can use it very conveniently when you setting up. For details of this function, please refer to the attachment "FI CON TYPE-e".

※When using "FI CON TYPE-e" you must have PC or smart phone that meets the following requirement. It is necessary to download software and applications (fee apply)

Sports Camshaft and FI CON TYPE-e and spark plug attach to a High-comp piston kit in Hyper tuning set.

You can choose without Big throttle body kit or with Big throttle body kit.



High-comp piston kit



Sports Camshaft (N-10)



Big throttle body kit $\Phi 34$



Hyper tuning set
(without Big throttle body kit)

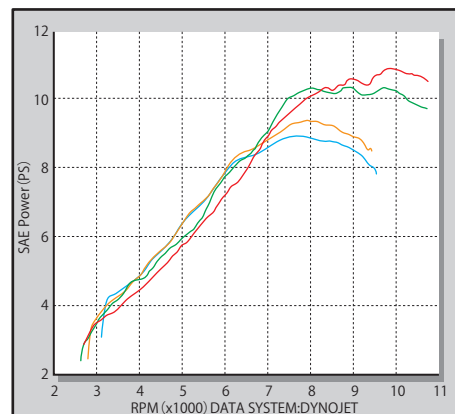
Name	High-comp piston kit
Applicable model	Z125 PRO (BR125H-A02621~)
Item number	01-02-0013

Name	FI CON TYPE-e (Injection controller)
Applicable model	Z125 PRO (BR125H-A02621~)
Item number	05-04-0101

Name	Sports Camshaft (N-10)
Applicable model	Z125 PRO (BR125H-A02621~)
Item number	01-08-0065

Name	Big throttle body kit $\Phi 34$
Applicable model	Z125 PRO (BR125H-A02621~)
Item number	03-05-0146

Name	Hyper tuning set
Applicable model	Z125 PRO (BR125H-A02621~)
Item number	without Big throttle body kit Item number: 01-02-0014 with Big throttle body kit Item number: 01-02-0015



Z125 PRO
High-comp piston kit + Sports Camshaft (N-10)
+ FI CON TYPE-e + BOMBER exhaust system
■ Big throttle body kit
■ Stock throttle body
■ High-comp piston kit + Stock Camshaft
+ Stock throttle body + Stock exhaust system
■ Stock engine + Stock exhaust system

FI CON TYPE-e (Injection controller)

Z125 PRO

Injection controller can be simply coupler on to genuine ECU. You can easily select, modify, and modify with the Preset mapping using a PC or smartphone. By installing our own various functions, you can use it widely from beginners to experts enthusiasts.

FI CON TYPE-e(Injection controller)

Coupler on to the genuine ECU

It can be installed easy coupler on the genuine ECU not necessary to cut or modify wiring at all.

Original preset mapping is included for our custom engine kit parts

Using our exclusive application (need down load) on PC or smartphone, the fuel adjustment mapping can be set on your engine.

To make the perfect setting, will need to use chassis dynamometer and O2 sensor.

"FI CON TYPE-e" Several preset fuel mapping is ideal and easy to use for , such as "stock engine with sport camshaft" or "138cc S stage bore-up kit"

When your engine is equipped with our custom engine kit, chose presetting "FI CON TYPE-e" mapping will complete the setting

Even when you use other manufacture exhaust or engine kit, you can choose preset mapping and make fine adjustment so that setting can proceed smoothly

※To make the perfect setting, will need to use chassis dynamometer and O2 sensor.

※DO NOT setting with smartphone while riding.

Fuel injection duration adjustment

Adjustable for every 5% of throttle opening and 500 rpm engine cycle, Maximum increase 5000 μ s · Maximum 7500 μ s

Simultaneous monitoring

Our special software (smartphone: application) installed on PC or smartphone has a real-time monitoring function which is very useful for setting

With the real-time monitoring function, tachometer, throttle opening graphic, engine temperature, and the fuel injection rate are digitally showing.

You can check the tachometer, TPS (throttle position sensor) opening monitor, engine temperature in real time while the engine is running.

Real search function

You can connect PC or smartphone while engine is running.The information of the running engine is reflected on the screen on the PC or smartphone in real time.

In the real search function, the engine rpm and the throttle opening are reflected in the e fuel map graphic, and that part glows to show clarify the adjustment area

It is very useful function when you setting.

Rev limiter control

You can set the maximum engine rpm.Because it is an independent function apart from the original limiter, it can be set even at lower rpm.

It is a function that can be used effectively when you do not want to raise the engine speed, such as avoid over rev, or break- in time.

Digital accelerator pump

"FI CON TYPE-e" captures the TPS (throttle position sensor) signal and monitors the throttle opening speed

When the throttle is opened quickly, the acceleration injection are engaged then it can injects fuel more than they originally set.

Pit lane speed limiter function

When you do not want to raise the speed at racetrack's pit lane (because of the speed limit regulation etc.) separately from the rev-limiter function,

they can engage the button-switch to pit lane speed limiter function. This function can be hock up easy (just connect wire to the switch and ground earth)

Tachometer output wire included

The purple wiring in the spiral tube of the main unit, this wire output 5V signal.By connecting this pulse line of the electric tachometer, you can measure the engine speed

※We don't have custom tachometer kit for Z125 PRO We have many general purpose tachometer kit available.

※When installing our general-purpose tachometer, it is necessary to use the attachment and modify the wiring harness and connect the meter power supply

General-purpose tachometer which confirmed operation.

Square LCD speed & tachometer (05-05-0027)

Medium DN tachometer (05-05-3210)

Φ48 small DN tachometer (orange) (05-05-0016)

Φ48 small DN tachometer (white) (05-05-0035)

Medium LCD speed & tachometer (05-05-0028)

Blue LED tachometer (05-05-0004)

Black & green tachometer (05-05-0014)

※General-purpose tachometer which is NOT work with this kit. ※It does not work properly

Super multi DN meter (05-05-0811) Large LCD α speed & tachometer (09-01-0057) Medium LCD α tachometer & thermometer (09-05-0144)

※When using "FI CON TYPE-e" you must have PC or smart phone that meets the following requirement.

It is necessary to download software and applications(fee apply)

System requirement for "FI CON TYPE-e"	PC:Windows 7/8/10 (exclude RT/MOBILE)	You need down load our special software (free) Need built in Bluetooth or an external Bluetooth adapter.
	Smart phone:iOS8 and above. after iPhone4s, iPad 3rd generation,	Download and install from Apple store.(fee apply) Andoroid:4.2.2 with Bluetooth. Download and install from Google play.(fee apply)



Name	FI CON TYPE-e (Injection controller)
Applicable model	Z125 PRO (BR125H-A02621~)
Item number	05-04-0101

FI CON TYPE-e Pre-set fuel adjustment mapping list

Engine spec								
Stock engine	+	Sports camshaft (N-10)	+	Stock throttle body	+	Stock Air cleaner BOX	+	BOMBER exhaust system
Stock engine	+	Sports camshaft (N-10)	+	Big throttle body	+	Air Filter	+	BOMBER exhaust system
S-Stage 138cc	+	Sports camshaft (N-10)	+	Stock throttle body	+	Stock Air cleaner BOX	+	BOMBER exhaust system
S-Stage 138cc	+	Sports camshaft (N-10)	+	Big throttle body	+	Air Filter	+	BOMBER exhaust system
S-Stage 138cc	+	N-20 camshaft	+	Stock throttle body	+	Stock Air cleaner BOX	+	BOMBER exhaust system
S-Stage 138cc	+	N-20 camshaft	+	Big throttle body	+	Air Filter	+	BOMBER exhaust system
S-Stage 178cc	+	N-20 camshaft	+	Stock throttle body	+	Stock Air cleaner BOX	+	BOMBER exhaust system
S-Stage 178cc	+	N-20 camshaft	+	Big throttle body	+	Air Filter	+	BOMBER exhaust system

■ Big throttle body Kit $\Phi 34$

Z125 PRO

It is a "Big throttle body kit" targeted at vehicles fitted with our sports cam shaft and FI CON TYPE-e (injection controller), or S stage bore up kit. By installing, engine characteristics and output power can be increased without stress.

■ **New design, original big throttle body (bore diameter $\Phi 34$)**

By adopting the newly designed original big throttle body, the output performance in the high rpm range, which is not in the stock throttle body specification, improves, and it is possible to obtain the engine characteristics that drives without stress.

■ **Air filter for "Big throttle body" (with blow-bypass adaptor)**

By removing the stock air cleaner box and installing our air filter, high suction efficiency suitable for "Big throttle body" is possible.

Also, because of blow-bypass adaptor, it is possible to connect to our oil catch tank.

■ **Our original inlet pipe (for stock cylinder head)**

It is possible to intakes smoothly from the "Big throttle body" to the stock intake port.

The inlet pipe comes with a adaptor that enables hose connection to charcoal canister.

■ **Shroud bracket (black painted steel)**

With the same fitting as genuine, you can place the both left and right shrouds.

In addition, you can install our oil cooler kit inside of the shroud.(sold, separately) .

※To install our Oil Cooler Kit, it is necessary to have our special clutch cover at the same time.

■ **Target engine specification for "Big throttle body kit" ※Other than the target engine specification below, there is no built-in map, so must be re-setting.**

※When installing the "Big Throttle Body Kit", it is necessary to have our "FI CON TYPE-e (injection controller)" together with the following engine specifications.

■ Stock engine or High compression piston + Sports Camshaft (N-10) + FI CON TYPE-e

■ S-Stage Bore Up Kit (138cc / 178cc) + FI CON TYPE-e ■ Hyper S-Stage Bore Up Kit (138cc / 178cc) (FI CON TYPE-e included)

※In the case of a custom engine, it is necessary to use our oil catch tank kit (07 - 05 - 0030).

■ Oil catch tank kit (372cc) 07-05-0030



03-05-0146

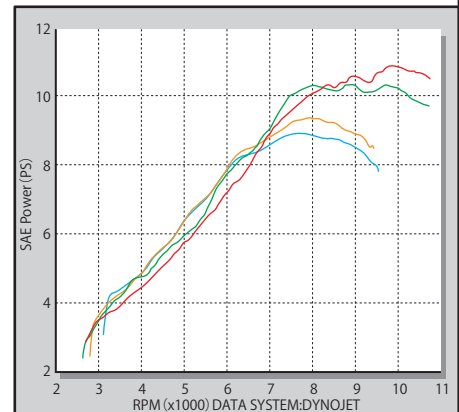


installation image



Our oil cooler can be installed in the shroud bracket

Name	Big throttle body kit $\Phi 34$
Applicable model	Z125 PRO (BR125H-A02621~)
	<ul style="list-style-type: none"> ■ Stock engine or High compression piston + Sports Camshaft (N-10) + FI CON TYPE-e ■ S-Stage Bore Up Kit + FI CON TYPE-e ■ Hyper S-Stage Bore Up Kit
Item number	03-05-0146



Z125 PRO
High compression piston + Sports Camshaft (N-10)
+ FI CON TYPE-e + BOMBER exhaust system

- Big throttle body Kit
- Stock throttle body
- High compression piston + Stock Camshaft + Stock throttle body + Stock exhaust system
- Stock engine + Stock exhaust system