# **FJ20 ENGINE TUNING PARTS**

## FJ20 Reinforced valve springs and spring washers







#### 10.000 RPM Valve Spring

This is a racing valve spring designed to support high lift cams and engine specifications aimed at high revolutions. Strengthening the set load and full load is the most important point in drawing out the potential of the engine. The spring rate has a margin that allows you to select the load according to your purpose, and it can be fine-tuned by changing the installation length.

#### Valve spring washer

When installing a camshaft with a high angle or lift, the valve projection is increased to prevent interference between the valves. This lengthens the valve spring installation length and weakens the load. This spring washer is used to compensate for the loosened set load.

> •1mm thickness ¥6.400/1set •0.5mm thickness ¥6.400/1set

#### Valve spring stepped seat (2-stage type/total thickness 2.5mm)

A must-have item for stabilizing the valve spring. Because it is a twostage type, when using a high cam, the valve guide can be lowered

#### FJ20 Reinforced Metal



B Blue (clearance standard)

C Yellow (narrow clearance) D Green (narrow / connecting rod only)

le with high loads and high revolutions, is used. In addition, the high sion finish, which has a thickness tolerance of just 5 microns, allows for

sing oil clearance adjustment. Furthermore, the narrow design reduces

uncompromising our centaince adjustment. If unlimiting, in a failure design reduces the contact area, lowering friction loss and improving engine response.

For engine specifications that require particularly high strength, such as race cars and highly tuned cars, we recommend WPC molybdenum-treated products, which have molybdenum disulfide powder directly sprayed onto the metal surface to improve seizure

#### ÿFJ20 Turbo Narrow width racing metal (shared with L type)

•FJ20 turbo narrow main metal set ¥15,400

- •FJ20 Turbo Narrow WPC Main Metal Set ¥23,460
- •FJ20 Turbo Narrow WPC Connecting Rod Metal Set ¥15,040

  "Can be used with FJ20ET cylinder blocks that have oil grooves in the main metal

#### ÿFJ20NA/Turbo shared reinforced metal (standard width)

•FJ20 F112 connecting rod metal set ¥8.800 •FJ20 WPC F780 main metal set •F.I20 WPC F112 connecting rod metal set ¥15.040

\*There are three types of clearance for connecting rod metals (wide, standard, narrow).

## FJ20 camshaft processing



#### ÿ58,000/each ÿ Normal cam processing fee

it is necessary to machine off the casting surface to create a lifter relief so that the valve lifter does not come into contact with the casting surface.

Lifter relief processing ¥10.000/each

#### FJ20 reinforced valve cap



Hardened and tempered

Barrel polished 1 25-2 65mm (0.05 unit) Tolerance

¥1,500

Administration (bitances + 0.03 - 0)
A=1.25 A=1.55 A=1.85 A=2.15 A=2.45 A=1.30
A=1.60 A=1.90 A=2.20 A=2.50 A=1.35 A=1.65
A=1.95 A=2.25 A=2.55 A=1.40 A=1.70 A=2.00
A=2.30 A=2.60 A=1.45 A=1.75 A=2.05 A=2.35
A=2.65 A=1.50 A=1.80 A=2.10 A=2.40



# FJ20 Lightweight titanium retainer & reinforced valve cotter



#### Lightweight titanium retainer

(Weight: Titanium 7.5g / Genuine 14.1g) 1 set

ÿ52,000

#### Reinforced Valve Cotter

Over-revving due to surging or shifting mistakes can cause galling and wear on the valve cotter taper surface. This caus variation in the valve spring set length, which leads to poor tracking at high revolutions. This reinforced valve cotter has a high surface hardness due to heat treatment. preventing galling and wear. 1 set ÿ12,600

# DR30 Reinforced Mount

The engine vibrations specific to the FJ20 not only have a negative effect on the engine and carburetor, but also affect the shift lever, causing a poor shift feeling. This reinforced mount absorbs vibrations appropriately, improving driving stability and transmitting engine power

#### DR30 reinforced engine mount

to the drivetrain without loss

1SET ÿ24,000

\*The engine mount bolt holes on the body side need to be enlarged by about 0.5 mm.

#### DR30 reinforced transmission mount

¥15,000The use

of reinforced rubber with a hardness 1.5 times that of the genuine product helps to absorb vibrations transmitted to the transmission and shift lever, allowing for smoother gear changes

#### FJ20 outer clearance cap



adjusting valve clearance is 2.65mm. When using a cam that has been clearance by placing an outer clearance cap on top of the valve cap.

\*Thickness (1mm/2mm/3mm) ¥1,700/1 piece

A dimension (tolerance +0.03 -0) A=1.0 A=2.0 A=3.0



# FJ20 Flyhole & Flywheel Bolt



"Clutch size"

•FJ20E (225ÿ) •FJ20ET (240ÿ)



ve way to make the FJ20 engine more respons the weight of the flywheel. We have adopted SCM material, which has excellent durability, and designed it to be thin while maintaining high strength. You can choose from two types depending on the application, from the STD type for street use to the R type for racing use

#### Chromoly lightweight flywheel STD type

•FJ20E (weight 4.8kg) ÿ50.000 •FJ20ET (weight 4.9kg) ÿ50,000

# Chromoly lightweight flywheel R type (lightweight hole product)

¥54,000 •FJ20E (weight 4.3kg) •FJ20ET (weight 4.4kg) ¥54 000

# ARP reinforced flywheel bolts

While the tightening torque of the genuine bolts is 15kg/m, the ARP reinforced bolts have a tightening strength of 18.5kg/m, preventing the bolts from loosening at high revolutions.

ÿ15,500

## FJ20 Super Single Clutch Kit



(Flywheel, disc, cover, sleeve, bearing included)

## ¥109,800

Specifications: Lightweight flywheel hole type Lightweight machined aluminur cover Clamping force: 1200kg Disc diameter: 225ÿ Total weight: 10.2kg Compatible horsepower: 3i

#### FJ20 reinforced clutch kit



FJ20 Turbo/NA Reinforced Clutch Kit (240ÿ) • Lightweight flywheel + 850kg cover + Super disc specification Type A ¥102,000 (Applicable

horsepower 320ps / Estimated) • Lightweight flywheel + 580k cover + super disc specifications (Appro

horsepower 300ps / Estimated) Type B ÿ100,000

specifications (horsepower of 280ps/estimate) Type C sales discontinued Lightweight flywheel + 580kg cover + STD non-asbestos disc specification (Applicable horsepower 260ps / Estimated) Type D ¥87,000

\*24mm sleeve and bearing set sold separately ¥4,170