

FJ20 ENGINE TUNING PARTS

FJ20改

89.5y91yFJ20 Forged lightweight piston High

compression ¥104,000
Low compression ¥104,000



Type	High Comp	Low Comp
	Forged	Forged
Manufacturing	y91 / y89.5 32mm	y91 / y89.5 32mm
method Piston	2080cc /	2080cc /
diameter	2012cc 322g	2012cc 324g
Pin height		
Displacement	y22x52mm	y22x52mm
Piston weight Pin diameter x length	1.2-1.2-2.5mm	1.2-1.2-2.5mm
Piston ring thickness y89.5	1.2-1.2-2.8mm	1.2-1.2-2.8mm
Piston ring thickness y91	5.0/3.8mm	4.5/3.8mm
Recess depth (N/EX)	+6.54cc	12.52cc
Piston concave/convex volume Compression ratio	1.2mm G/K	8.3 (1.5mm G/K)

B

Forged
Comp

FJ20 lightweight chromium connecting rod



¥23,000/bottle

detail

Type: Type II Chromoly Lightweight Specifications
Manufacturing method: Forged (Upper and Lower Integrated Die) Material: Chromium molybdenum steel Center distance: 139.5mm (DEM: 140mm) Heat treatment: Quenched and tempered Surface treatment: Shot blasting Hardness: HB285-352, Coining I-shape ribs on both sides, ARP bolts (strength standard 230,000-260,000 psi), pin diameter y21 (need to be machined to y22 for L-type common connecting rods), weight 620 g or less (variation within 5 g)

FJ20 metal head gasket



This bead-type head gasket secures the surface pressure by providing press-formed beads around the combustion chamber and around the water and oil holes, which require a high level of sealing. The layout is appropriately distributed by the width and height of the beads, making it an indispensable part for tuning engines.

Thickness G/K bore diameter	price
1.0mm φ90 φ92 φ93	¥ 22,000
1.2mm φ90 φ92 φ93	¥ 23,000
1.5mm φ90 φ92 φ93	¥ 24,000
2.0mm φ90 φ92 φ93	¥ 27,000
2.5mm φ90 φ92 φ93	¥ 30,000
3.0mm φ90 φ92 φ93	¥ 32,000

FJ20 Timing Chain



This reinforced chain has a relatively thin 5-10μ manganese phosphate-based insoluble film formed on the metal surface, which is evenly and evenly permeated into the material surface. This achieves four times the wear resistance! It keeps the chain in the best condition for a long time by suppressing valve timing delays caused by chain elongation. It is also resistant to seizure and galling that often occur in the sliding parts of the chain, and helps maintain smooth movement and reduce friction loss.

Primary side reinforced timing chain

¥8,000

Secondary side reinforced timing chain

¥12,000

*The sprocket in the image is not included in the price.

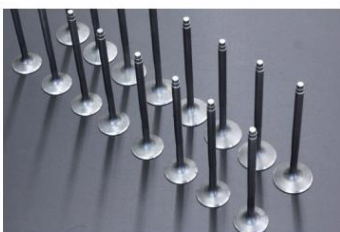
FJ20 cam sprocket gear



Kameari Cam Sprocket Gear is made of strong metal material and has passed the precision machining and heat treatment process under strict control. The slide has 1-2 degree adjustment scale, so valve timing can be set easily and accurately.

Sliding cam sprocket gear	price
1 sheet	¥18,000

FJ20 Big Valve



This valve is made from a strong metal material and is manufactured through strict inspection standards including forging, precision machining, heat treatment, and quality control. The valve's light weight is achieved by cutting the valve head thinly to create the most efficient valve head angle. This racing valve was designed based on the three concepts of "efficiency, strength, and light weight" to maximize the effect of high cams and port polishing.

IN 35.5y/EX 30.5y Lightweight big valve SET

One ¥56,000

IN 35.5y lightweight big valve

1 ¥3,500

piece * Total length 0.5mm short (124.7mm) / Weight 61g

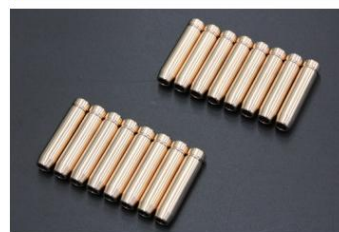
EX 30.5y lightweight big valve

1 ¥3,500

piece * Total length 0.5mm short (124.7mm) / Weight 53g

*No need to replace the seat ring

FJ20 valve guide



The overall length is 53mm, but the shape of the tip has been changed to reduce the air resistance of the intake and exhaust. In addition, the use of PBB material with excellent thermal conductivity and sliding properties reduces valve vibration and friction, helping the valve move at higher revolutions of the FJ20.

Racing valve guide	price
1 unit	¥32,000

*Overall length 3mm short (53mm)

*Material: IN ABB aluminum copper EX PBB phosphor bronze