

CAPACITY UPGRADE KIT

FA20-2.1L LOW COMP

High boost tuning in the era of direct injection engines!

The low compression type FA20 2.1L Kit is available for high boost tuning.

Upgrading with forced induction is very common for the FA20 engine tuning.

HKS has developed a highly durable low compression piston required to move onto the next tuning level.

■ Features

POINT① Piston

- Forged material improves durability.
- The cavity is designed in piston crown to optimize the atomization of fuel during injection.
- 3D Piston crown design to optimize tumble flow.
- The piston is recessed to match high lift HKS camshafts.
- The compression ratio range is widened depending on the gasket's specification.
- Molybdenum coated pistons reduce friction.



POINT② Connecting Rods

- Cracked connecting rod is chosen for the long stroke.
- The big end size is designed to omit modification of the engine block.
- (Nissan genuine bearing for RB26 and SR is required separately)
- Highly durable I-beam and cracked connecting rod are included. The connecting rod bolt size is optimized.



POINT③ Crankshaft Stroke 90.0mm

- The crankshaft is made from forged materials.
- Bespoke pin journal size is employed.



Compression ratio when using normal cylinder head

Head gasket thickness(mm)	STD	LOW COMP
0.5	12.4	11.1
0.7	12.1	10.9
1.0	11.8	10.5

■ Specification

	HKS 2.1L LOW COMP KIT	Genuine
Bore	Φ86.0	Φ86.0
Stroke	90.0mm	86.0mm
Displacement	2,091ml	1,998ml

● CAPACITY UPGRADE KIT FA20 2.1L (Low Comp)

Product	Engine	Displacement	Type	Bowling Horning	Full-flow Process	Code No.	Price	Remarks
① FA20 2.1L LOW COMP KIT	FA20	2091	φ86.0-φ22	No Need	No Need	21004-AT003		②+③+④
② Forged Low-Comp. Piston Kit		-	φ86.0-φ22	No Need	No Need	21003-AT004		Forged Piston + Ring + Pin
③ I-beam Connecting Rod		-	φ22 pin	-	No Need	23004-AT001		Forged I-beam
④ Forged Crankshaft		-	90mm	-	-	23006-AT002		Stroke 90mm