Machine Translated by Google Processing menu by engine

L-type engine	Unit L	4/ Price L6/	/ Price	remarks
Intake manifold mounting surface correction surface grinding	¥13,000	¥15,000 per unit F	Repairs scratches	on the mounting surface and corrosion near the thermo housing.
Head bolt hole sleeve repair	¥19,000 p	er location ¥19,00	0 Repair for when	head bolt holes and intake ports are pierced.
Oil gallery blind plug removal	¥5,500 p	er unit ¥5,500For	cleaning oil holes	after line boring. (2 places, front and back)
Remove oil relief valve and replace blind plug block side	¥5,500 pe	r unit ¥5,500 To ens	ure reliable hydraulio	pressure. Whether or not to insert blind plugs is at the customer's discretion. (Parts cost not included)
water hole plug	¥1,400 pe	r location ¥1,400 A	After cleaning the p	pilot hole, replace with a new 35ÿ plug. (Parts cost not included)
Block filler injection processing	One	¥28,000 ¥3	2,000	Block filler is injected into the water jacket to increase the rigidity of the cylinder that has become thinned by boring.
L20 Cylinder Block EXH Valveless Processing	by one		¥25,000	When using a high lift cam on the L20, this is modified to prevent the exhaust valve from interfering with the cylinder block.

S20 Engine	Unit F	rice	remarks		
Valve guide replacement	1 unit ¥21	,600Measure the p	lot hole and replace it while considering the safe press-fit. (Oversized parts may be used depending on the situation. Guide sold separately)		
Valve guide inner diameter reamer	¥14,400 p	er unit The inner diam	ster of the guide that has changed due to the press-fit is adjusted with a straight reamer to achieve the desired clearance.		
Seat ring replacement	¥72,000	per unit Oversized	seat rings are available to accommodate press-fitting. (Seat ring cost not included)		
Cam center seat cut	¥64,800	per unit Based on	he cam center, the protrusion is adjusted to within the range of commercially available valve caps.		
Cylinder head surface correction	¥15,000	per unit Repairs sc	atches and distortions on the head surface.		
Cylinder head water pressure	One	¥17,000	Check for water leaks caused by cracks that tend to occur around the seat ring.		
inspection Kamurai Boring (IN/EX)	One	¥200,000	Repairing a deformed cam cap housing.		
Cylinder liner replacement + O-ring replacement 1 unit ¥41,000 Liner replacement and replacement of old O-rings (parts cost not included)					
Cylinder liner height adjustment	¥20,000 p	er unit The amount o	f liner protrusion from the top of the block is adjusted to the specified value in the 100th range.		
Cylinder block surface correction grinding	1 unit ¥23	000 In order to preser	ve the precious engine number, the number is removed and the surface is ground. A front cover is required for processing.		
Cylinder Polling	¥49,000	per unit Optimal p	iston clearance and high-precision honing finish according to the intended use.		
Cylinder block hydraulic inspection	1 unit ¥2	6,000	After replacing the liner and O-ring, check for water leaks with a high-pressure test.		
Crank undersands calculation Metal matching (parent and child)	1 unit ¥38,0	000 Calculate the	pest undercrank size by working backwards from the housing inner diameter, metal thickness, and oil clearance.		
Crank parent and child underside full polishing	¥144,800	per unit Crank be	nd correction + parent-child undersize polishing + tufftride heat treatment + thermal distortion correction + wrapping		
Crank parent and child + thrust under full grinding	One	¥160,800	Crank bend correction + parent-child & thrust undersize polishing + tufttride heat treatment + thermal distortion correction + wrapping		
Crank housing line boring	One	¥95,000	Crank housing modification. (Additional cost if offset machining of side bolt holes is required)		

A-type engine	Unit F	rice	remarks		
Rocker arm bushing insertion (core) 1 piece ¥5,500 Reduces friction and protects shaft from wear.					
Rocker arm lever ratio change (0.7mm offset)	¥7,800 p	er piece Change t	he lever ratio to 1.575 to increase valve lift.		
A-type head, intake manifold mounting surface water hole plugged	¥8,800 p	er unit Use a 1/8 t	olind to block unnecessary water holes.		
Cam metal replacement	¥25,000	per unit Replace o	amaged cam metal. You need a cam to use. (Metal cost, blind cost + blind plug replacement labor cost are separate)		
A14,15 Offset boring	¥51,000	per unit The bore	pitch is changed to ensure the cylinder wall thickness.		
A12 Cylinder block EX valve recess processing	¥17,000	per unit This is a r	nodification to prevent the exhaust valve from interfering with the cylinder block when using high cam lift.		
A12 Crank oil hole enlarged chamfer & 1/8 plug pro	cessing 1	unit ¥34,000	To make the oil supply smoother.		

Porsche	Unit F	rice	remarks
964 Front head surface processing	¥11,000	per piece Process	ing to use an early model head with a late model cylinder.
964 Head correction surface grinding ~1.0mm	¥11,000	per item Repairs so	ratches and distortions on the head surface.
964 early Cooper ring processing	By insta	ling a Cooper ring	(¥16,000 each), gasket removal is strengthened.
964 late model & 993 Cooper ring processing	1 piece	£25,000	
964 Metal combination	¥40,000	per unitMeasure t	ne housing journal size and select the best metal!
964 Crankcase mating surface dowel pin processing	¥43,000	per unit . Increase	s the rigidity of the crankcase.

Two wheel vehicle	Unit 1	cylinder 2	cylinders 3	cylinders 4	cylinders	remarks
Head correction surface grinding ~1.0mm	¥8,000 p	er unit	¥9,000	¥10,000	¥13,000	
Cylinder boring	1 unit ¥1	2,000	¥23,000	¥29,000	¥34,000	Optimal piston clearance and high-precision honing finish according to the intended use.
Liner production, replacement and boring	¥35,000	per unit	¥68000	¥100,000 ¥1	32,000	To repair holes, etc., the top surface needs to be ground. *If no pilot holes are drilled
Big liner production, replacement boring	One	¥40,000 ¥7	8,000 ¥114,00	0	¥150,000	Includes drilling and drilling
Cylinder top surface correction and grinding	One	¥9,000 ¥1	1,000 ¥13,00	þ	¥17,000	The surface grinding done by the manufacturer is rough, so we recommend corrective surface grinding! (To prevent head GK from coming loose)
Assembly crank centering only	1 unit ¥1	2,000	¥17,500	¥23,500	¥35,000	Remove the crank shake.

others	Unit F	rice	remarks
KAWASAKI Z series (two-wheeler) twin plug processing	One	¥45,000	
KAWASAKI Z series (two-wheeled vehicle) crankcase big liner processing	One	¥18,000	Required if liner is oversized.
U20 Crank housing line boring	One	¥85,000	The housing distortion has been corrected to improve oil clearance and bearing contact.
G7 Cylinder block top surface correction grinding	One	¥19,000	Corrected corrosion on the top surface of the block and variation in liner height.
G7 Front Timing Case Cover Upper Side Grinding	by one	¥10,000	Adjust the height to the amount that was lowered by grinding the block and head surfaces.
G7 cylinder liner replacement + O-ring replacement	One	¥50,000	Replacement of O-rings and inspection and cleaning of the removed liner and inside of the cylinder. (Parts cost separate)
G7 Cylinder Water Pressure Test	One	¥26,000	Check for water leaks after replacing liners and O-rings with high-pressure testing

