

3.0L 6-CYL & 3.0L 6-CYL TURBO - VIN [M]

Selected Block

1988 Toyota Supra

For Lextreme Powertrain 2020 S. Hacienda Blvd. # D Hacienda Heights California 91745

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GENERAL ENGINE SPECIFICATIONS

GENERAL ENGINE SPECIFICATIONS TABLE

Application	In. (mm)
Displacement	
Cu. In.	180.3
Liters	3.0
Fuel System	Fuel Inj.
HP @ RPM	200 @ 6000
Torque Ft. @ RPM	188 @ 3600
Compr. Ratio	9.2:1
Bore	3.27 (83.0)
Stroke	3.58 (91.0)

VALVE SPECIFICATIONS

VALVE SPECIFICATIONS TABLE

Application (1)	In. (mm)
Intake	
Head Diam. ....	...
Face Angle	44.5°
Seat Angle	(2) 45°
Seat Width ....	.039-.055 (1.00-1.40)
Stem Diameter ....	.2350-.2356 (5.969-5.984)
Stem Clearance	(2) .0010-.0024 (.025-.061)
Valve Lift ....	...
Exhaust	
Head Diam. ....	...
Face Angle	44.5°
Seat Angle	(2) 45°
Seat Width ....	.039-.055 (1.00-1.40)
Stem Diameter ....	.2348-.2354 (5.964-5.979)
Stem Clearance ....	.0012-.0026 (.030-.066)
Valve Lift ....	...

(1) - Standard valve guide inside diameter is
.2366-.2374" (6.01-6.03 mm)

(2) - Correction angles for valve seats are 30° and 60°.

PISTONS, PINS, & RINGS SPECIFICATIONS

PISTONS, PINS, & RINGS SPECIFICATIONS TABLE

Application	In. (mm)
Non-Turbo	
Pistons	
Clearance .....	.0024-.0031 (.061-.079)
Pins	
Piston Fit	(1) Interference Fit
Rod Fit .....	.0002-.0004 (.005-.010)
Rings	
Ring No. 1	
End Gap .....	.0091-.0150 (.231-.381)
Side Clearance .....	.0012-.0028 (.030-.071)
Ring No. 2	
End Gap .....	.0098-.0209 (.249-.531)
Side Clearance .....	.0008-.0024 (.020-.061)
Oil Ring	
End Gap .....	.0039-.0157 (.099-.40)
Side Clearance .....	...
3.0L Turbo	
Pistons	
Clearance .....	.0028-.0035 (.07-.09)
Pins	
Piston Fit	(1) Interference Fit
Rod Fit .....	.0002-.0004 (.005-.010)
Rings	
Ring No. 1	
End Gap .....	.0114-.0173 (.29-.44)
Side Clearance .....	.0012-.0028 (.030-.071)
Ring No. 2	
End Gap .....	.0098-.0209 (.249-.531)
Side Clearance .....	.0008-.0024 (.020-.061)
Oil Ring	
End Gap .....	.0039-.0173 (.10-.44)
Side Clearance .....	...

(1) - Piston pin is installed using thumb pressure with piston and rod assembly at 140°F (60°C). If pin can be installed at a lower temperature, replace piston assembly.

MAIN & CONNECTING ROD BEARINGS SPECIFICATIONS

MAIN & CONNECTING ROD BEARINGS SPECIFICATIONS TABLE

Application	In. (mm)
Main Bearings	
Journal Diam.	(1) 3.0L 6-CYL & 3.0L 6-

Clearance	.0012-.0019	(.030-.056)
Thrust Bearing		No. 4
Crankshaft End Play	.0020-.0098	(.051-.249)
Connecting Rod Bearings		
Journal Diam.		(1)
Clearance	.0008-.0021	(.030-.048)
Side Play	.0063-.0117	(.160-.297)

VALVE SPRING SPECIFICATIONS

VALVE SPRING SPECIFICATIONS TABLE

Application		In. (mm)
Free Length	1.6394	(41.641)
Pressure Lbs. @ In. (Kg @ mm)		
Valve Closed	35 @ 1.378	(16 @ 35.0)
Valve Open		...

CAMSHAFT SPECIFICATIONS

CAMSHAFT SPECIFICATIONS TABLE

Application (1)(2)		In. (mm)
No. 1		
Journal Diam.	1.0610-1.0616	(26.949-26.965)
Clearance	.0014-.0028	(.036-.071)
Lobe Lift		(3)
No. 2-7		
Journal Diam.	1.0586-1.0620	(26.888-26.975)
Clearance	.0010-.0037	(.025-.094)
Lobe Lift		(3)

- (1) - Runout limit is .0012" (.030 mm).
- (2) - Standard end play is .0031-.0075" (.079-.191 mm).
- (3) - Standard cam lobe height for intake and exhaust is 1.5102" (38.359 mm)

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