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Overview Created: Jan 15, 1993 Edited: Apr 16, 2018

VEHICLE TYPE Car/Truck	FUEL TYPE Gas	ENGINE CODE
MAKE CHEVROLET	MODEL CAPRICE	YEAR 1976-1979
BORE/STROKE 4.2500" (107.950 MM) 4.000" (101.600 MM)	VIN S	LITER 7.4
COMPRESSION RATIO 7.9:1 RATIO		CID 454
COMMENT GEN IV, 4BC		CYL V 8
		FIRING ORDER 1-8-4-3-6-5-7-2
		INTFR Unkown

Cylinder Head

Casting

Head Information

Specifications

New Thickness/Measured At	
Minimum Thickness	
Warp Spec.	.004" OVERALL (.102 MM)
Chamber Volume (cc)	123-127 CC
Surface Finish	
OHC Camshaft Bore Diameter	
Injector Tip Protrusion	
Lifter Bore Diameter	
Comments	* OR INT = 1.9700-2.0000" AND EXH = 2.2810-2.3120"

Valve

Valve Information

Intake

Exhaust

Installed Stem Height	2.0000-2.0300" (50.8-51.562 MM) *	2.2510-2.2810" (57.175-57.937 MM) *
Stem Diameter	.3715-.3722" (9.436-9.454 MM)	.3713-.3720" (9.431-9.449 MM)
Total Length	5.215-5.235" (132.461-132.969 MM)	5.345-5.365" (135.763-136.271 MM)
Head Diameter	2.065" (52.451 MM)	1.720" (43.688 MM)
Angle	45°	45°
Margin	.031" (.787 MM)	.031" (.787 MM)
Recession		

Valve Guide Information

Intake

Exhaust

Guide Height	.790-.810" (20.066-20.574 MM)	.790-.810" (20.066-20.574 MM)
Guide Clearance	.0010-.0027" (.025-.069 MM)	.0012-.0029" (.03-.074 MM)
Guide OD		

Valve seal Type

UMBRELLA

UMBRELLA

Valve Seat Information

Intake

Exhaust

Seat Width	.031-.063" (.787-1.6 MM)	.063-.094" (1.6-2.388 MM)
Seat Angle	46°	46°

Seat Inside Diameter
 Seat Insert Height
 Seat Insert Bore Diameter
 Seat Insert Bore Depth

Valve Spring

Outer or Single Spring

	Intake	Exhaust
Free Length	2.120" (53.848 MM)	2.120" (53.848 MM)
Installed Height	1.875" (47.625 MM)	1.875" (47.625 MM)
Open Test Pressure	288-312# @1.380	288-312# @1.380
Close Test Pressure	74-86# @ 1.875	74-86# @ 1.875

Inner Spring

	Intake	Exhaust
Free Length	DAMPER --->	1.860" (47.244 MM)
Installed Height		
Open Test Pressure		
Close Test Pressure		

Roker shaft

Description	Specification
Shaft Diameter	1.70:1 RATIO
Bore Diameter	
Oil Clearance	
Rock Arm Ratio	

Installation

Description	Intake
Intake Valve Lash	0 + 3/4 TURN
Exhaust Valve Lash	0 + 3/4 TURN
Lash Adjustment Method	
Precup Torque Spec.	
Cylinder Head Torque	30, 60, 80 FT/LBS USE SEALER
Camshaft Cap Torque	