Small Block and Big Block Engine Bore and Stroke Chart

Bore & Stroke Chart

Small Block Engine

Engine	Years	Bore Diameter	Stroke	Rod Length	Main Bearing Diameter	Rod Bearing Diameter	Main Caps	Journal Size	Notes
262	1975-76	3.671	3.10	5.7	2.45	2.10	2-bolt	Medium	
265	1955-56	3.75	3.00	5.7	2.30	2.10	2-bolt	Small	
265	1994	3.736	3.00	5.7	2.45	2.10	2-bolt	Medium	
267	1979-81	3.50	3.48	5.7	2.45	2.10	2-bolt	Medium	
283	1957-97	3.875	3.00	5.7	2.30	2.00	2-bolt	Small	
293	1999-	3.780	3.27	5.7	2.30	2.10	2-bolt	Medium	"LR4" 4.8 Liter Vortec
302	1967	4.001	3.00	5.7	2.30	2.00	2-bolt	Small	
302	1968-	4.001	3.00	5.7	2.45	2.10	4-bolt	Medi	

	69							um	
305	1986-97	3.736	3.48	5.7	2.45	2.10	2-bolt	Medium	1-piece.
305	1976-86	3.736	3.48	5.7	2.45	2.10	2-bolt	Medium	2-piece
307	1968-73	3.875	3.25	5.7	2.45	2.10	2-bolt	Medium	
325	1999-	3.78	3.62	5.7	2.45	2.10	2-bolt	Medium	"LM7" 5.3 liter Vortec
327	1962-67	4.001	3.25	5.7	2.30	2.00	2-bolt	Small	
327	1968-69	4.001	3.25	5.7	2.45	2.10	2-bolt	Medium	
350	1967-85	4.001	3.48	5.7	2.45	2.10	2/4-bolt	Medium	2-piece
350	1986-95	4.001	3.48	5.7	2.45	2.10	2/4-bolt	Medium	1-piece. TBI injection
350	1996-00	4.00	3.48	5.7	2.45	2.10		Medium	Vortec 350
350	1989-95	3.90	3.66	5.74	2.45	2.10	4-bolt	Medium	"LT5" in ZR1 Corve

									tte 32 Valve DOHC
350	1997-	3.90	3.62	6.098	2.45	2.10	4-bolt	Medium	Gen 3 " LS1" makes 346 cubic inch
364	1999-	4.00	3.62	5.7	2.45	2.10	4-bolt	Medium	"LQ4 " 6.0 Liter Vortec
377	400 Block	4.155	3.4	5.7 or 6	2.45	2.10	2/4-bolt	Medium	Must use main bearing spacer.
383	350 Block	4.03	3.75	5.565, 5.7, or 6	2.45	2.10	2/4-bolt	Medium	400 mains cut to 350 size
400	1970-72	4.125	3.75	5.565	2.65	2.10	4-bolt	Large	
400	1973-	4.125	3.75	5.565	2.65	2.10	2-bolt	Large	

Big Block Engine

Engine	Years	Bore Diameter	Stroke	Rod Length	Main Bearing Diameter	Rod Bearing Diameter	Main Caps	Journal Size	Notes
366T	1968-90	3.935	3.76	6.135	2.7495 2.7488	2.20	4-bolt	Standard	
396	1965-69	4.096	3.76	6.135	2.7495-2.7488	2.20	2/4-bolt	Standard	
402	1970-72	4.125	3.76	6.135	2.7495-2.7488	2.20	2/4-bolt	Standard	
427	1969-69	4.25	3.76	6.135	2.7495-2.7488	2.20	2/4-bolt	Standard	
427T	1968-85	4.25	3.76	6.135	2.7495-2.7488	2.20	2/4-bolt	Standard	Tall Deck

454	1970-90	4.25	4	6.135	2.7495-2.7488	2.20	2/4-bolt	Standard
454	1990-up	4.25	4	6.135	2.7495-2.7488	2.20	2/4-bolt	Standard
502	1996-up	4.446	4	6.135	2.7495-2.7488	2.20	4-bolt	Standard

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