

BASIC ENGINE DIMENSIONS (INCHES)

DISPLACEMENT	YEARS	BORE	STROKE	BORE SPACING	MAIN JOURNAL DIA.	ROD JOURNAL DIA.	CON ROD LENGTH (MEAN)	CRANKSHAFT CENTER LINE TO DECK	COMPRESSION DISTANCE PIN TO TOP OF PISTON
1.6L Kent	1971-73	3.188	3.056	3.780	2.1253	1.9372	4.9280	8.2272	—
1.6L CVH	1981-85	3.150	3.130	3.614	2.3830	1.8855	5.1945	8.212	1.451
1.9L CVH	1985-87	3.230	3.465	3.614	2.3830	1.8855	5.1945	8.378	1.451
1.9L CVH	1988-96	3.230	3.465	3.614	2.3830	1.7283	5.1945	8.378	1.451
1.8L ZETEC DOHC	1991-96	3.270	3.350	3.583	1.966	1.771	5.23	8.13	1.108
2.0L CVH	1997-98	3.339	3.465	3.614	2.3830	1.7283	5.1945	8.378	1.451
2.0L OHC ①	1971-74	3.575	3.029	4.016	2.2436	2.0468	4.9820	8.146	1.595 ②
2.0L OHC ②	1983-87	3.520	3.126	4.173	2.3986	2.0468	5.2047	8.368	1.583
2.0L ZETEC	1995-04	3.339	3.465	3.614	2.2831	1.8465	5.3618 ③	8.378	1.3012 ④
2.0L V-6	2001-04	3.215	2.631	4.0157	2.479	1.967	5.686	8.189	1.181
2.2L Probe	1988-92	3.390	3.700	3.810	2.360	2.0058	6.2000	9.500	1.450
2.3L OHC	1974-97	3.780	3.126	4.173	2.3986	2.0468	5.2047	8.368	1.583
2.3L I-4	2001-04	3.445	3.701	3.780	2.047	1.968	6.094	9.094	1.122
2.5L OHC	1998	3.780	3.401	4.173	2.3986	2.0468	5.457	8.368	1.2105
2.3L HSC	1984-94	3.680	3.300	4.080	2.24895	2.1236	5.4570	8.700	1.520
2.5L HSC	1986-91	3.680	3.583	4.080	2.24895	2.1236	5.990	9.400	1.579
2.5L V-6 «	1995-99	3.2447	3.1299	4.0157	2.4795	1.9677	5.4370	8.1890	1.1811
2.5L V-6 «	1999-04	3.215	3.1299	4.0157	2.4795	1.9677	5.437	8.189	1.1811
2.6L V-6	1972-73	3.545	2.630	4.760	2.2437	2.1270	—	8.084	1.546
2.8L V-6	1974-80	3.650	2.700	4.760	2.2437	2.1270	5.1400	8.084	1.539
2.9L V-6	1986-92	3.661	2.835	4.760	2.2443	2.1256	5.1400	8.858	1.461
3.0L V-6	1986-04	3.504	3.1496	4.330	2.5194	2.1257 ④	5.5315 ⑤	8.661	1.5354
3.0L V-6 ⑥	1997-04	3.504	3.1299	4.0157	2.4795	1.9677	5.4370	8.1890	1.1811
3.4L V-8 SHO	1996	3.2447	3.1299	4.0157	2.4795	1.9677	5.4370	8.1890	1.1811
3.8L V-6	1982-95	3.810	3.390	4.193	2.5194 ⑥	2.3107	5.9135	9.232	1.602
3.8L V-6	1997-03	3.810	3.390	4.193	2.5194	2.3107	6.091	9.232	1.450
3.9L V-6	2004	3.81	3.464	4.193	2.5194	2.3107	6.091	9.232	1.410
3.9L V-8	2000-04	3.3858	3.346	3.858	2.4409	2.2047	6.115	8.88	1.211
4.0L V-6	1990-00	3.950	3.32	4.760	2.2437	2.1256	5.748	8.858	1.458
4.0L V-6	1997-04	3.95	3.32	4.76	2.2437	2.1256	5.748	8.858	1.44
4.2L V-6	1997-04	3.810	3.74	4.193	2.5194	2.3107	6.091	9.232	1.273
4.5L Ford Racing	③	4.080	3.500	4.469	2.749	2.100	6.088	9.232	③
200 I-6	1963-83	3.680	3.126	4.080	2.2486	2.1236	4.7150	7.808	1.511
250 I-6	1969-80	3.680	3.910	4.080	2.3986	2.1236	5.8800	7.808	—
240 I-6	1965-72	4.000	3.180	4.480	2.3986	2.1232	6.7947	10.000	1.605
300 I-6	1965-96	4.000	3.980	4.480	2.3986	2.1232	6.2097	10.000	1.757
221 V-8	1962-63	3.500	2.870	4.380	2.2486	2.1232	5.1550	8.206	1.595
255 V-8	1979-82	3.680	3.000	4.380	2.2486	2.1232	5.1550	8.206	1.600
260 V-8	1962-64	3.800	2.870	4.380	2.2486	2.1232	5.1550	8.206	1.600
4.6L V-8	1991-04	3.552	3.5433	3.9370	2.6572	2.0863	5.9331	8.9370	1.2205
5.4L V-8	1997-04	3.552	4.165	3.9370	2.6572	2.0863	6.6575	10.0787	—
6.8L V-10	1997-04	3.552	4.165	3.9370	2.6572	2.0863	6.6573	10.0787	1.2205
6.0L V-12	1999-04	3.504	3.1299	4.0157	2.4795	1.9677	5.437	8.189	1.1811
289	1963-68	4.000	2.870	4.380	2.2486	2.1232	5.1550	8.206	1.605
302	1968-96	4.000	3.000	4.380	2.2486	2.1232	5.0900	8.206	1.605
302 BOSS	1969-70	4.000	3.000	4.380	2.2486	2.1226	5.1500	8.201-8.21	1.530
302 Ford Racing	③	4.000	3.000	4.380	2.2486	2.1226	5.1500	8.201-8.21	③
351W	1969-70	4.000	3.500	4.380	3.000	2.311	5.956	9.480 (1969-70)	1.769
351W	1969-96	4.000	3.500	4.380	3.000	2.311	5.956	9.503 (1971-96)	1.769
351 Ford Racing	③	4.000	3.500	4.380	2.749	2.311	5.956	9.503	③
351 Ford Racing	③	4.000	3.500	4.380	2.2486	2.311	5.7800	9.206	③
351C BOSS *	1970-74	4.000	3.500	4.380	2.749	2.311	5.7800	9.206	1.647
351M	1975-85	4.000	3.500	4.380	2.9998	2.3107	6.5800	10.297	1.947
400	1971-81	4.000	4.000	4.380	2.9998	2.3107	6.5800	10.292-10.302	1.647
352	1960-66	4.000	3.500	4.630	2.749	2.4380	6.5400	10.170	1.825
390	1961-71	4.050	3.780	4.630	2.749	2.4380	6.4890	10.170	1.775
406	1962-63	4.130	3.780	4.630	2.749	2.4380	6.4890	10.170	1.745
410	1966-67	4.050	3.980	4.630	2.749	2.4380	6.4890	10.170	1.674
427	1963-68	4.230	3.780	4.630	2.749	2.4380	6.4890	10.170	1.752
428	1966-70	4.130	3.980	4.630	2.749	2.4380	6.4890	10.170	1.674
429 STD	1968-73	4.360	3.590	4.900	3.000	2.500	6.6050	10.300 (1968-70)	1.890
429 STD	1968-73	4.360	3.590	4.900	3.000	2.500	6.6050	10.310 (19701/2-71)	1.890
429 CJ/SCJ	1969-70	4.360	3.590	4.900	3.000	2.500	6.6050	10.322 (1972-73)	1.890
429 BOSS (S)	1969	4.360	3.590	4.900	3.000	2.500	6.5490	10.300	1.926
429 BOSS (T)	1969-70	4.360	3.590	4.900	3.000	2.500	6.6050	10.300	1.870
460/460 Ford Racing	1969-96	4.360	3.850	4.900	3.000	2.500	6.6050	10.322 (1972-96)	1.756

① Car (EAO)

② Ranger/Bronco II

③ Non-production blocks. Dimensions for reference.

④ 3.0L SHO - 2.047"

⑤ 3.0L SHO - 5.780"

⑥ 3.8L SC #1-2-3 - 2.5190", #4 - 2.5096

⑦ Sport 2000 - 1.6395"

⑧ Duratec

⑨ 1997 - 5.482"

⑩ 1997 - 1.181"

NOTES: • All 4-cylinder (except 1.6L Kent) and all V-6 engines are metric. Dimensions shown in inches.
• 3.9L V-8 used in the Thunderbird & Lincoln LS is based on the Jaguar V8 design.