

Engine Specification Chart

Engine	Bore	Stroke	Rod Journal Diameter	Main Journal Diameter	Compression Ratio	Firing Order	Cranking Comp.	Pin Diameter	Piston to Wall Cfr.	Valve Intake	Clearance Exhaust	Ignition Timing (Gas)	Plug Gap	Point Gap	Ft/Lb. Cyl. Head Torque	Main Brg. Bolt Torque	Rod Nut Torque
Toyota																	
2R	3.071	3.071	1.968	2.283	8.0:1	1-3-4-2	147	0.787	0.016-.0031	.008H	.014H	8 deg. BTDC	.028-.031	.016-.018	80	75	32
3P	3.016	3.110	1.850	2.047	8.2:1	1-3-4-2	156	0.787	0.016-.0031	.008H	.014H	8 deg. BTDC	.028-.031	.016-.018	74-84	71-79	30-34
4P	3.016	3.188	1.850	2.047	8.5:1	1-3-4-2	156	0.787	0.016-.0031	.008H	.014H	8 deg. BTDC	.028-.031	.016-.018	74-84	71-79	30-34
4Y	3.583	3.385	1.899	2.283	8.2:1	1-3-4-2	155	0.866	0.015-.0040	.008H	.014H	10 deg. BTDC	.028-.031	.016-.018	54-65	54-58	34-36
5R	3.464	3.230	2.165	2.362	8.2:1	1-3-4-2	155	0.866	0.020-.0040	.008H	.014H	10 deg. BTDC	.028-.031	.016-.018	74-84	74-84	43-50
5K	3.169	2.874	1.653	1.968	8.3:1	1-2-4-3	155	1.063	0.016-.0035	.008H	.014H	5 deg. BTDC	.028-.031	.016-.020	70-81	70-81	29-36
5P	3.660	4.016	2.165	2.755	8.3:1	1-2-4-3	155	1.063	0.016-.0035	.008H	.014H	5 deg. BTDC	.028-.031	.016-.020	70-81	70-81	47-54
2J	3.464	4.016	2.165	2.755	20.5:1	1-2-4-3	385	0.990	0.043-.0031	.008H	.014H	13 deg. BTDC	.026-.030	.016-.018	83-93	90-108 #4 76-94	36-55
F	3.543	4.000	2.126	#1 2.637 #2 2.696	7.8:1	1-5-3-6-2-4	145	0.990	0.015-.0031	.008H	.014H	6 deg. BTDC	.026-.030	.016-.018	84-97	90-108 #4 76-94	36-55
3F	3.700	4.000	2.066	#3 2.756	7.8:1	1-5-3-6-2-4	145	0.990	0.015-.0031	.008H	.014H	6 deg. BTDC	.026-.030	.016-.018	83-93	90-108 #4 76-94	36-55
3F	3.700	4.000	2.066	#4 2.815	7.8:1	1-5-3-6-2-4	145	0.990	0.015-.0031	.008H	.014H	6 deg. BTDC	.026-.030	.016-.018	83-93	90-108 #4 76-94	36-55
H	3.464	3.858	2.165	2.756	21.0:1	1-4-2-6-3-5	398	1.063	0.028-.0035	.010H	.014H	16 deg. BTDC	.026-.030	.016-.018	80-86	93-102	62-69
2H Early	3.583	4.016	2.165	2.756	21.0:1	1-4-2-6-3-5	398	1.063	0.028-.0035	.010H	.014H	16 deg. BTDC	.026-.030	.016-.018	80-86	93-102	62-69
2H Late	3.583	4.016	2.165	2.756	21.0:1	1-4-2-6-3-5	398	1.141	0.028-.0035	.010H	.014H	16 deg. BTDC	.026-.030	.016-.018	80-86	93-102	62-69
Nissan																	
D11	2.873	2.680	1.731	2.059	8.0:1	1-3-4-2	155	0.687	0.015-.0030	.015H	.015H	8 deg. BTDC	.031-.035	.018-.022	55	80	25
J15	3.071	3.055	1.876	2.001	8.3:1	1-3-4-2	164	0.826	0.015-.0030	.015H	.015H	5 deg. BTDC	.028-.031	.018-.022	36-43	72-80	20-27
A15	2.990	3.228	1.770	1.967	8.2:1	1-3-4-2	156	0.687	0.022-.004	.015H	.015H	8 deg. BTDC	.028-.031	.018-.022	51-54	61-80	23-27
H20	3.433	3.268	2.046	2.046	8.2:1	1-3-4-2	156	0.866	0.015-.0030	.015H	.015H	8 deg. BTDC	.028-.031	.018-.022	58-69	61-80	36-43
H20-II	3.433	3.268	1.770	2.478	8.7:1	1-3-4-2	156	0.787	0.015-.0030	.015H	.015H	8 deg. BTDC	.028-.031	.018-.022	54-61	61-69	23-27
Z24	3.504	3.622	1.967	2.360	8.7:1	1-3-4-2	156	0.787	0.015-.0030	.015H	.015H	8 deg. BTDC	.028-.031	.018-.022	54-61	61-69	23-27
H25	3.622	3.661	1.967	2.478	8.7:1	1-3-4-2	156	0.866	0.022-.004	.015H	.015H	8 deg. BTDC	.028-.031	.018-.022	60	34-41	32-39
H30	3.433	3.268	2.046	2.478	8.2:1	1-3-4-2	156	0.866	0.015-.0030	.015H	.015H	8 deg. BTDC	.028-.031	.018-.022	54-61	61-69	28-33
P40	3.375	4.500	2.250	2.728	7.6:1	1-5-3-6-2-4	150	0.812	0.012-.0019	.008H	.014H	6 deg. BTDC	.028-.031	.018-.022	51-65	72-87	33-43
PPU240-241	3.375	4.500	2.250	#1 2.685 #2-7 2.727	7.6:1	1-5-3-6-2-4	150	0.812	0.012-.0019	.008H	.014H	6 deg. BTDC	.028-.031	.018-.022	51-65	72-87	33-43
S022	3.268	3.071	2.083	2.791	20.8:1	1-3-4-2	427	1.023	0.016-.0043	.014H	.014H	20 deg. BTDC	.028-.031	.018-.022	94lg 368m	123-127	38-41
S025	3.500	3.937	2.083	2.791	20.8:1	1-3-4-2	427	1.023	0.016-.0043	.014H	.014H	20 deg. BTDC	.028-.031	.018-.022	94lg 368m	123-127	38-41
S033	3.268	3.937	2.083	2.791	20.8:1	1-3-4-2	427	1.023	0.016-.0043	.014H	.014H	20 deg. BTDC	.028-.031	.018-.022	94lg 368m	123-127	38-41
Mitsubishi																	
4G32	3.028	3.385	1.771	2.244	8.5:1	1-3-4-2	160	0.748	0.016-.0030	.008H	.010H	5 deg. BTDC	.028-.031	.016-.018	59	36-39	23-25
4G33	2.874	3.385	1.771	2.244	8.5:1	1-3-4-2	160	0.748	0.016-.0030	.008H	.010H	5 deg. BTDC	.028-.031	.016-.018	59	36-39	23-25
4G52	3.307	3.543	2.086	2.362	8.5:1	1-3-4-2	160	0.866	0.016-.0030	.004H	.006H	TDC	.028-.031	.016-.018	65-72	54-61	33-35
4G54	3.587	3.543	2.086	2.362	8.2:1	1-3-4-2	160	0.866	0.016-.0030	.004H	.006H	TDC	.028-.031	.016-.018	65-72	54-61	33-35
4G63	3.346	3.347	1.771	2.244	8.2:1	1-3-4-2	160	0.866	0.016-.0030	.008H	.006H	TDC	.028-.031	.016-.018	65-72	54-61	33-35
4G64	3.4067	3.937	1.771	2.244	20.8:1	1-3-4-2	427	0.866	0.008-.0016	.008H	.006H	TDC	.028-.031	.016-.018	65-72	54-61	33-35
S4E	3.701	3.701	2.282	2.952	22:1	1-3-4-2	479	1.181	0.008-.0016	.010C	.010C	20 deg. BTDC	.032	.016-.018	86-90	75-79	61-65
SBE	3.701	3.701	2.282	2.952	22:1	1-3-4-2	479	1.181	0.008-.0016	.010C	.010C	20 deg. BTDC	.032	.016-.018	86-90	75-79	61-65
Mazda																	
UA	2.953	3.307	1.968	2.479	7.8:1	1-3-4-2	142	0.866	0.016-.0031	.014H	.014H	13 deg. BTDC	.028-.031	.016-.020	60-65	60-65	35-38
VA	3.228	3.700	2.086	2.479	8.0:1	1-3-4-2	156	0.866	0.016-.0031	.015H	.012H	13 deg. BTDC	.028-.031	.016-.020	60-65	60-65	35-38
D5	3.031	3.150	1.572	1.966	9.0:1	1-3-4-2	170	0.7855	.002-.004	.010H	.012H	7 deg. BTDC	.028-.031	.016-.020	63-67	48-51	22-25
FE	3.386	3.386	2.006	2.360	9.0:1	1-3-4-2	170	0.866	0.016-.0030	.004H	.006H	7 deg. BTDC	.028-.031	.016-.020	66-70	62-66	30-34
F2	3.385	3.700	2.006	2.360	9.0:1	1-3-4-2	170	0.866	0.016-.0030	.004H	.006H	7 deg. BTDC	.028-.031	.016-.020	66-70	62-66	30-34
Isuzu																	
C240	3.385	4.016	2.083	2.7531	7.8:1	1-3-4-2	142	1.182	0.048-.0056	.016C	.016C	13 deg. BTDC	.028-.031	.016-.020	65	115-130	57-65
4BD1	4.017	4.646	2.517	3.1465	8.0:1	1-3-4-2	156	1.378	0.072-.0079	.016C	.016C	13 deg. BTDC	.028-.031	.016-.020	65	115-130	57-65
4BB1	4.017	4.33	2.517	2.9884	8.0:1	1-3-4-2	156	1.378	0.072-.0079	.016C	.016C	13 deg. BTDC	.028-.031	.016-.020	65	115-130	57-65
4BC2	4.017	3.937	2.517	2.9884	8.0:1	1-3-4-2	156	1.378	0.072-.0079	.016C	.016C	13 deg. BTDC	.028-.031	.016-.020	65	115-130	57-65
4B1	4.017	3.937	2.517	2.9884	8.0:1	1-3-4-2	156	1.378	0.072-.0079	.016C	.016C	13 deg. BTDC	.028-.031	.016-.020	65	115-130	57-65
6BD1	4.017	4.646	2.517	3.165	8.0:1	1-3-4-2	156	1.378	0.072-.0079	.016C	.016C	13 deg. BTDC	.028-.031	.016-.020	65	115-130	57-65
6BB1	4.017	4.646	2.517	3.165	8.0:1	1-3-4-2	156	1.378	0.072-.0079	.016C	.016C	13 deg. BTDC	.028-.031	.016-.020	65	115-130	57-65
6BG1	4.017	4.646	2.517	3.165	8.0:1	1-3-4-2	156	1.378	0.072-.0079	.016C	.016C	13 deg. BTDC	.028-.031	.016-.020	65	115-130	57-65