



2002

NDC®



**ENGINE BEARINGS AND BUSHINGS**

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# ENGINE MANUFACTURER

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## IMPORTANT NOTICE

THE PURPOSE OF THIS CATALOG IS TO FURNISH OUR CUSTOMERS WITH AS A COMPLETE A LISTING OF THEIR PARTS REQUIREMENTS AS POSSIBLE.  
ALL LISTINGS, APPLICATIONS, AND INTERCHANGES HAVE BEEN COMPILED AS CAREFULLY AS POSSIBLE WITH ALL AVAILABLE INFORMATION; WE CANNOT ASSUME ANY RESPONSIBILITY FOR POSSIBLE ERRORS IN LISTINGS, APPLICATIONS, OR INTERCHANGE.  
ALL REFERENCES TO ORIGINAL MANUFACTURER'S TRADE NAMES AND PART NUMBERS ARE FOR IDENTIFICATION ONLY. THIS CATALOG SUPERSEDES ALL PREVIOUS CATALOGS AND LISTINGS.

# DAEWOO

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM Std Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>TICO</b> 3 cyl	<b>TW-2403A</b> (90-ON)	T.W. No.3	(I.D.)52.0	(O.D.)68.0	2.520	18.00	0.018-0.064	2.8-3.2	12340-82820
	<b>CB-2401A</b> (90-ON)	C.R. 1-6	38.000	41.018	1.493				12181-A81051

# DAIHATSU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM Std Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>AB</b> 2 cyl 71.6 x 68 547cc  <b>AD</b> 2 cyl. 76 x 88 617cc	<b>MS-2500A</b> (AB 76-84) (AD 74-82) <b>MS-2506A</b> (AB 84-86)	Main 1-3	42.000	46.024	1.990	19.50	0.030-0.064	5.4-6.6	11702-87701
		Main 1-3	42.000	46.024	1.990	19.50	0.030-0.064	5.4-6.6	11702-87711
	<b>TW-2500A</b> (ALL 76-86) <b>CB-2500A</b> (ALL 76-86) <b>BB-2500A</b> (ALL 76-86)	T.W. No. 2	(I.D.)48.0	(O.D.)62.0	1.990				11011-87701
		C.R. 1-2	40.000	43.024	1.490	18.00	0.020-0.054	2.1-2.9	13202-87701
		B.B. 1	44.975	48.025	1.508	17.00	0.030-0.086		11902-87701
		B.B. 2	33.975	37.025	1.508	20.00	0.030-0.086		
<b>CB</b> 3 cyl. 76 x 73 993cc <b>CD</b> 3 cyl. 76 x 73 993cc <b>CL</b> 3 cyl. 76 x 73 993cc <b>CB-T</b> 3 cyl. 76 x 73 993 cc	<b>MS-2501A</b> (CB,CD,CL 77-84) <b>MS-2505A</b> (ALL 85-ON)	Main 1-4	42.000	46.024	1.990	19.50	0.030-0.064	5.4-6.6	11702-87703
		Main 1-4	42.000	46.024	1.990	19.50	0.030-0.064	5.4-6.6	11702-87710
	<b>TW-2500A</b> (ALL 77-ON) <b>CB-2501A</b> (CB,CD,CL 77-ON)	T.W. No. 3	(I.D.)48.0	(O.D.)62.0	1.990				11011-87701
		C.R. 1-3	40.000	43.024	1.490	18.00	0.020-0.054	2.1-2.9	13202-87703
	<b>CB-2509A</b> (CB-T 85-ON)	C.R. 1-3	42.97	46.020	1.494	20.10	0.020-0.054		13202-87707
		<b>BB-2501A</b> (ALL 77-ON)	B.B. 1	44.975	48.025	1.508	17.00	0.030-0.086	
	B.B. 2		33.975	37.025	1.508	20.00	0.030-0.086		
	<b>CL-T</b> 3 cyl 76 x 73 993cc	<b>MS-2503A</b> (84-ON) <b>TW-2503A</b> (84-ON)	Main 1-4	48.000	52.030	1.994	17.10		
T.W. No.			(I.D.)54.25	(O.D.)68.00	1.990				11011-87702
<b>CB-2503A</b> (84-ON) <b>BB-2501A</b> (84-ON)		C.B. 1-3	44.980	48.020	1.494	20.00	0.012-0.076		13202-87706
		B.B. 1	44.975	48.025	1.508	17.00	0.030-0.086		11902-87702
		B.B. 2	33.975	37.025	1.508	20.00	0.030-0.086		

# DAIHATSU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM Std Set Number		
			Shaft Dia	Housing Bore	Wall Thickness						
<b>FE</b> 4 cyl 68 x 66 958cc	<b>MS-2504G</b> (64-77)	Main 1.2 D3	50.000	54.020	19.850	22.00	0.020-0.075	4.0-5.0	11702-87104		
			50.000	54.020	19.850	31.90	0.020-0.075				
	<b>CB-1027GP</b> (64-77)	C.R. 1-4	42.000	45.017	1.485	21.00	0.029-0.069	2.0-2.5	13202-87104		
			<b>SH-1014B</b> (64-77)	Cam 1	36.955	40.030	1.515			20.00	0.025-0.110
					2	36.455	40.030			1.765	20.00
	<b>PB-1027J</b> (64-77)	P.B. 1-4	35.955	40.030	2.015	20.00	0.025-0.110	991-4023-138			
			20.000	23.021	1.545	23.00					
	<b>DG</b> 4 cyl. 88 x 104 253cc	<b>MS-1158A</b> (78-90)	Main 1.3.5. 2.4. Δ3(L)	67.970	72.019	2.002	30.00	0.040-0.085	9.8-11.2	11702-87035	
				67.970	72.019	2.002	24.00	0.040-0.085			
				67.970	72.019	2.002	37.90	0.040-0.085			
<b>TW-1098J</b> (68-77)		T.W. No. 3	(I.D.)76.0	(O.D.)94.0	2.980			5113-1394-0			
			<b>CB-1158A</b> (68-90)	C.R. 1-4	54.980	58.020	1.492		27.50	0.040-0.085	6.5-7.5
<b>SH-1158A</b> (82-90)		Cam 1			45.975	50.025	2.000	23.00	0.024-0.099		
					2	45.675	50.025	2.150	25.00	0.024-0.099	
<b>PB-1158J</b> (68-90)		P.B. 1-4	3	45.375	50.025	2.300	23.00	0.024-0.099	90043-84018		
			26.000	29.025	1.530	30.00	0.006-0.030				

# DAIHATSU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM Std Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>DL</b> 4 cyl 92 x 104 2765cc  <b>DL-T</b> 4 cyl 92 x 104 2765cc	<b>MS-1158A</b> (82-87)	Main							11702-87305
		1.3.5.	67.970	72.019	2.002	30.00	0.040-0.086	9.8-11.2	
		2.4.	67.970	72.019	2.002	24.00	0.040-0.086		
	Δ3(L)	67.970	72.019	2.002	37.90	0.040-0.086			
	<b>MS-2502A</b> (87-ON)	Main							11702-87036
		1 (U)	67.970	72.020	2.005	34.00	0.040-0.086	9.8-11.2	
		2.3.4.5.	67.970	72.020	2.005	34.00	0.040-0.086		
	1.2.4.5.	67.970	72.020	2.005	34.00	0.040-0.086			
			Δ 3(L)	67.970	72.020	2.005	37.95	0.040-0.086	
	<b>CB-1158A</b> (82-ON)	C.R.							13202-87305
		1-4	54.980	58.020	1.492	27.50	0.040-0.085	6.5-7.5	
		Cam							
	<b>SH-1158A</b> (82-87)	1	45.975	50.025	2.000	23.00	0.024-0.099		11802-81380
		2	45.675	50.025	2.150	25.00	0.024-0.099		
	<b>SH-2502A</b> (87-ON)	3	45.375	50.025	2.300	23.00	0.024-0.099	11802-81301	
Cam									
1		46.575	50.620	2.000	22.00				
2		46.275	50.320	2.000	18.00				
3		45.975	50.020	2.000	18.00				
<b>PB-2502J</b> (82-87)	P.B.						90043-84057		
	1-4	26.000	29.025	1.530	30.00	0.005-0.030			
	<b>PB-2511J</b> (87-ON)	P.B.						90043-84086	
1-4	28.000	31.000	1.530	30.00	0.005-0.030				
<b>EB</b> 3 cyl. 62 x 60.5 547cc  <b>EF</b> 3 cyl. 62 x 60.5 547cc	<b>MS-2507A</b> (EB 85-88) (EF 85-ON)	Main						11702-87204	
		1-4	42.000	46.02	1.994	16.00			
	<b>TW-2507A</b> (EB 85-88) (EF 85-ON)	T.W.	(I.D.)48.02	(O.D.) 59.00	1.990			11011-87201	
<b>CB-2507A</b> (EB 85-88) (EF 85-ON)	C.B.						13202-87201		
	1-3	37.000	40.020	1.494	15.00				

# DAIHATSU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM Std Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>ED</b> 3 cyl. 66.6 x 81 846cc	<b>MS-2510A</b> (85-ON)	Main 1-4	46.000	50.020	1.994	16.00		11702-87203	
	<b>TW-2510A</b> (85-ON)	T.W.	(I.D.)52.25	(O.D.)63.00	1.990			11011-87202	
	<b>CB-2510A</b> (85-ON)	C.B. 1-3	40.00	43.000	1.994	16.00		11011-87203	
<b>HC-E</b> 4 cyl. 76 x 71.4 1296cc  <b>HD</b> 4 cyl. 76 x 87.6 1589cc	<b>MS-2511A</b> (88-ON)	Main 1-5	50.000	54.000	2.002	18.10	4.0-5.0	11701-87102	
	<b>TW-2511A</b> (88-ON)	T.W.	(I.D.) 57.2	(O.D.) 76.4	2.490			11011-87101	
	<b>CB-2511A</b> (88-ON)	P.B. 1-4	45.000	48.000	1.498	18.00	2.0-2.5	13041-87101	

# HINO

Engine, cyl, Bore-Stroke Cubic Disp.	NDC SET No. Year Mfr.	Position	Dimension STD Size Max.			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	O.E.M. STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>EB100</b> 6 cyl. 115 x 145 9036cc	<b>MS-1079GP</b> (67-ON)	Main							11701-1150
		1.7	94.960	101.015	2.999	44.00	0.06-0.12	24.0-25.0	11701-1161
		2.3.5.6.	94.960	101.015	2.999	34.00	0.06-0.12		
<b>EB200</b> 6 cyl 115 x 145 9036cc	<b>TW-1079BC</b> (67-77)	T.W.	(I.D.)	(O.D.)					11011-1060
		No.4	101.5	130.0	4.980				
		<b>TW-1120BC</b> (77-ON)	T.W.	(I.D.)	(O.D.)				11011-1171
<b>EB300</b> 6 cyl. 120 x 145 9838cc	<b>CB-2100GP</b> (CB-1120GP)	C.R.							13201-1300
		1-6	74.970	81.015	2.999	46.00	0.04-0.09	16.0-17.0	
	<b>SH-1079B</b> (67-ON)	Cam							2330-1905
		1	63.070	68.030	2.450	50.00	0.03-0.10		2330-1909
		2	62.770	68.030	2.600	40.00	0.03-0.10		
		3	62.370	68.030	2.800	40.00	0.03-0.10		
		4	62.070	68.030	2.950	40.00	0.03-0.10		
5	61.770	68.030	3.100	36.00	0.03-0.10				
<b>EB400</b> 6 cyl. 120 x 145 9839cc	<b>PB-1079J</b> (67-77)	P.B.							13272-1230
		1-6	43.000	49.025	3.040	42.25	0.03-0.05		13272-1100
		<b>PB-1120J</b> (77-ON)	P.B.						
		1-6	45.000	51.030	3.030	44.20	0.03-0.05		
<b>EC100</b> 6 cyl. 97 x 113 5010cc	<b>MS-1140GP</b> (MS-1081GP) (69-86)	Main							11701-1260
		1.7	73.960	79.000	2.492	32.00	0.04-0.11	11.0-11.5	
		2.3.5.6.	73.960	79.000	2.492	28.00	0.04-0.11		
	<b>TW-1081GP</b> (69-86)	T.W.	(I.D.)	(O.D.)					11011-1110
		No.4	80.5	98.4	2.510	35.00	0.04-0.11		
	<b>CB-1081GP</b> (69-86)	C.R.							13201-1170
		1-6	59.960	64.000	2.000	33.50	0.03-0.09	8.0-10.0	
	<b>SH-1081B</b> (69-86)	Cam							2380-1905
		1	56.470	59.530	1.500	35.00	0.03-0.12		2380-1908
		2	54.470	57.530	1.500	30.00	0.03-0.12		
		3	53.870	56.930	1.500	30.00	0.03-0.12		
	<b>PB-1081J</b> (69-86)	P.B.							13272-1140
		1-6	31.500	35.525	2.030	37.00	0.02-0.04		

# HINO

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	O.E.M. STD Set Number				
			Shaft Dia	Housing Bore	Wall Thickness								
<b>EK100</b> 6 cyl. 137 x 150 13267cc	<b>MS-2102GP</b> (75-ON)	Main	89.930	96.015	3.000	40.00	0.07-0-.13	24.0-26.0	11701-1012				
		1-7											
	<b>TW-2102K</b> 3 PCS	T.W.										11011-1011	
		No.7	(I.D.)102.0	(O.D.) 128.0	3.970								
	<b>EK200</b> 6 cyl. 137 x 150 13267cc	<b>TW-2112K</b> (4 PCS)	T.W.										11011-1250
			No.7	(I.D.)102.0	(O.D.) 128.0				3.970				
	<b>EK13</b> 6 cyl. 137 x 150 13267cc	<b>CB-2102GP</b> (K100/200/13 75-ON)	C.R.							40.60	0.05-0.11	20.0-21.0	13201-1011
1-6			83.965	89.030	2.500								
<b>CB-2112GP</b> (K136C 87-ON)		C.R.							13201-1610				
		1-6	83.965	89.030	2.500								
<b>K13C</b> 6 cyl. 135 x 150 12882cc		<b>SH-2102A</b> (75-ON)	Cam										11811-1190
			1	65.970	71.025	2.500	42.0	0.03-0.12					
			2	65.770	71.025	2.600	30.0	0.03-0.12					
	3		65.570	71.025	2.700	30.0	0.03-0.12						
	4		65.370	71.025	2.800	42.0	0.03-0.12						
		5	65.170	71.025	2.900	30.0	0.03-0.12						
		6	64.970	71.025	3.000	30.0	0.03-0.12						
		7	64.770	71.025	3.100	32.0	0.03-0.12						
<b>EL100</b> 6 cyl. 116 x 124 7862cc	<b>MS-2103GP</b> (78-ON)	Main	89.930	96.015	3.010	34.00	0.06-0.11	27.0-29.0	11701-1460				
		1-7											
	<b>TW-2105GP</b> (78-ON)	T.W.	(I.D.)	(O.D.)								11701-1470	
		NO.4	102.3	125.0	2.975							11701-1590	
	<b>EM100</b> 6 cyl. 124 x 130 9419cc	<b>CB-2103GP</b> (EL100 78-81)	C.R.									11011-1120	
			1-6	72.970	77.025				2.000	32.00	0.05-0.10	22.0-24.0	13201-1312
	<b>EP100</b> 6 cyl. 120 x 130 8821cc	<b>CB-2106GP</b> (EM/EP100 81-84)	C.R.									13201-1400	
			1-6	74.970	80.025				2.500	32.00	0.05-0.10	22.0-24.0	13201-1410
	<b>EP100</b> 6 cyl. 120 x 130 8821cc	<b>CB-2113GP</b> (EP100 84-ON)	C.R.									13201-1670	
			1-6	74.970	80.025				2.505	32.00	0.05-0.10	22.0-24.0	
			Cam										11811-1070
			1	64.970	69.030				2.000	34.00	0.03-0.13		
			2	64.570	68.630				2.000	20.00	0.03-0.13		
3			64.170	68.230	2.000	20.00	0.03-0.13						
4			63.770	67.830	2.000	20.00	0.03-0.13						
5	63.370	67.430	2.000	20.00	0.03-0.13								
		6	62.970	67.030	2.000	20.00	0.03-0.13						
		7	62.570	66.630	2.000	25.00	0.03-0.13						

# HINO

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>DM100</b> 6 cyl. 90 x 113 4313cc	<b>MS-1059GP</b> (DM 63-78) (DQ 71-83)	Main								
		1.7	66.960	71.000	2.002	32.00	0.04-0.08	10.5-11.0	11701-1180	
		2.3.5.6.	66.960	71.000	2.002	23.50	0.04-0.08		11701-1190	
	<b>DQ100</b> 6 cyl. 92 x 113 4507cc	<b>TW-1059GP</b> (DM 63-78) (DQ 71-83)	4	66.960	71.000	2.002	36.00	0.04-0.08		
			T.W.	(I.D.)	(O.D.)					11011-1090
		No.4	73.5	91.2	2.495					
		<b>CB-1059GP</b> (DM 63-78) (DQ 71-83)	C.R.							13201-1150
			1-6	55.950	59.000	1.509	33.63	0.04-0.08	7.5-8.0	
		<b>SH-1059B</b> (DM 63-78) (DQ 71-83)	Cam							3252-1951
			1	54.970	58.030	1.500	35.00	0.03-0.12		3252-1955
2	53.970		57.030	1.500	32.00	0.03-0.12				
3	53.470		56.530	1.500	21.50	0.03-0.12				
4	52.970		56.030	1.500	32.00	0.03-0.12				
<b>PB-1059J</b> (DM 63-78) (DQ 71-83)	5	45.970	49.030	1.500	29.00	0.03-0.12				
	P.B.							13272-1130		
1-6	29.000	32.025	1.540	33.90	0.02-0.04					
<b>EH100</b> 6 cyl. 105 x 113 5871cc	<b>MS-1140GP</b> (72-85)	Main							11701-2171	
		1.7	73.960	79.000	2.490	32.00	0.04-0.10	11.0-11.5		
		2.3.5.6.	73.960	79.000	2.490	28.00	0.04-0.10			
	<b>EH300</b> 6 cyl. 108 x 113 6211cc	<b>TW-1081GP</b> (72-85)	4	73.960	79.000	2.490	35.00	0.04-0.10		11011-1110
			T.W.	(I.D.)	(O.D.)					
		No.4	80.5	98.4	2.510					
		<b>CB-1165GP</b> (EH100 72-85)	C.R.							13201-1180
			1-6	62.960	67.000	2.000	33.50	0.03-0.09	11.0-13.0	
		<b>CB-1140GP</b> (EH300 74-80)	C.R.							13201-1190
			1-6	644.960	69.000	2.000	33.60	0.03-0.09	14.0-16.0	
	<b>CB-2101GP</b> (EH500 80-83) (EH700 77-83)	C.R.							13201-1261	
		1-6	64.960	69.000	2.000	33.60	0.03-0.09	16.5-18.5		
	<b>EH500</b> 6 cyl. 108 x 113 6211cc	<b>SH-1081B</b> (EH100/300 72-85)	Cam						2380-1905	
			1	56.470	59.530	1.500	35.00	0.03-0.12	2380-1908	
			2	54.470	57.530	1.500	30.00	0.03-0.12		
3			53.870	56.930	1.500	30.00	0.03-0.12			
<b>SH-2101A</b> (EH500/700 77-83)		4	53.570	56.630	1.500	30.00	0.03-0.12			
	Cam							11812-1050		
	1	61.470	64.500	1.500	35.00					
<b>EH700</b> 6 cyl. 110 x 113 6443cc	<b>PB-1139J</b> (EH100 72-85)	2	61.270	64.300	1.500	26.00				
		3	61.070	64.100	1.500	26.00				
		4	60.870	63.900	1.500	26.00				
		5	60.670	63.700	1.500	26.00				
		6	60.470	63.500	1.500	26.00				
		7	58.270	61.300	1.500	30.00				
	P.B.							13271-1030		
1-6	34.000	38.025	2.040	40.00	0.02-0.04					

# HINO

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. Year Mfr.	Position	Dimension STD Size Max.			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	O.E.M. STD Set Number		
			Shaft Dia.	Housing Bore	Wall Thickness						
<b>ER100</b> 6 cyl. 128 x 150 11581cc	<b>MS-1149GP</b> (78-86)	Main							11701-1491		
		1.7	99.960	106.035	3.000	43.50	0.06-0.13	42.5-45.0			
		1.3.5.6.	99.960	106.035	3.000	33.00	0.06-0.13				
	<b>TW-1149BC</b> (78-86)	4	99.960	106.035	3.000	60.00	0.06-0.13	24.0-26.0	11011-1200		
		T.W.	(I.D.)	(O.D.)							
		NO.4	106.30	140.30	3.470						
		<b>CB-2104GP</b> (78-86)	C.R.								
			1-6	79.970	85.015	2.500	40.00			0.05-0.10	
			<b>SH-1149B</b> (78-86)	Cam							
				1	65.470	70.030	2.250			50.00	0.03-0.12
	2			65.170	70.030	2.400	34.00	0.03-0.12			
	3			64.770	70.030	2.600	34.00	0.03-0.12			
	4	64.470		70.030	2.750	46.00	0.03-0.12				
5	64.170	70.030		2.900	34.00	0.03-0.12					
6	63.770	70.030	3.100	34.00	0.03-0.12						
7	63.470	70.030	3.250	32.00	0.03-0.12						
<b>ER200</b> 6 cyl. 128 x 150 11581cc	<b>PB-1149J</b> (78-86)	P.B.						13272-1190			
		1-6	48.000	54.030	3.030	44.20	0.04-0.06				
<b>HO6C</b> 6 cyl. 108 x 118 6485cc	<b>MS-2108GP</b> (84-ON)	Main						14.0-16.0	11701-1661		
		1.4.7.	79.960	85.015	2.490	32.00	0.05-0.10				
	2.3.5.6.	79.960	85.015	2.490	28.00	0.05-0.10	16.5-18.0	11011-1270			
	<b>TW-2108K</b> (84-ON)	T.W.	(I.D.)	(O.D.)							
		NO.4	85.0	105.0	2.500						
	<b>CB-2111GP</b> (86-ON)	C.R.									
		1-6	64.960	69.015	2.000	33.00			0.03-0.08		
		<b>SH-2108A</b> (84-ON)	Cam								
	1		61.470	64.530	1.500	35.00			0.03-0.11		
	2		61.270	64.330	1.500	26.00	0.03-0.11				
	3		61.070	64.130	1.500	26.00	0.03-0.11				
	4		60.870	63.930	1.500	26.00	0.03-0.11				
	5		60.670	63.730	1.500	26.00	0.03-0.11				
	6		60.470	63.530	1.500	26.00	0.03-0.11				
	7	60.270	61.330	2.500	30.00	0.03-0.11					
	<b>PB-2108J</b> (84-ON)	P.B.						0.015-0.040	13272-1270		
		1-6	39.000	43.025	2.000	(U) 31.00 (L) 39.80					

# HINO

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>WO4D</b> 4 cyl. 104 x 118 4009cc	<b>MS-2109GP</b> (83-ON)	Main	72.960 (I.D.)	78.000 (O.D.)	2.490	25.00	0.04-0.09	14.0-16.0	11701-1611	
		1-5							11011-1240	
	<b>TW-2109GP</b> (83-ON)	T.W. No.4	82.25	98.75	2.500					13201-1430
		C.R.								11802-1180
	<b>SH-2109B</b> (83-ON)	1-4	61.960	66.000	1.995	28.00	0.03-0.08	11.5-13.5		
		Cam								
		1	56.970	60.030	1.500	27.00	0.03-0.12			
<b>PB-2109J</b> (83-ON)	2	56.770	59.830	1.500	27.00	0.03-0.12				
	3	56.570	59.630	1.500	27.00	0.03-0.12				
	P.B. 1-4	35.000	39.025	2.040	(U)30.00 (L)38.00	0.02-0.04			13272-1280	
<b>WO6D</b> 6 cyl. 104 x 113 5759cc	<b>MS-2110GP</b> (83-95)	Main	72.960 (I.D.)	78.000 (O.D.)	2.490	25.00	0.04-0.09	14.0-16.0	11701-1630	
		1-7							11011-1280	
	<b>TW-2109GP</b> (83-95)	T.W. No.4	82.25	98.75	2.500					13201-1450
		C.R.								11802-1120
	<b>SH-2110B</b> (83-95)	1-6	61.960	66.000	1.995	28.00	0.03-0.08	11.5-13.5		
		Cam								
		1	56.970	60.030	1.500	27.00	0.03-0.12			
	<b>PB-2110J</b> (83-95)	2	56.770	59.830	1.500	27.00	0.03-0.12			
		3	56.570	59.630	1.500	27.00	0.03-0.12			
		4	56.370	59.830	1.700	27.00	0.03-0.12			
<b>PB-2110J</b> (83-95)	P.B. 1-6	35.000	39.025	2.040	(U)30.00 (L)38.00	0.02-0.04			13272-1280	

# HONDA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>C20A</b> V6 82 x 63 1996cc	<b>MS-2211GP</b> (85-ON)	Main 1-4	50.000	54.024	1.999	20.00	0.002-0.07	4.7-5.3	13321-PH6-003
	<b>TW-1134GP</b> (85-ON)	T.W. NO.4	(I.D.)56.00	(O.D.)78.00	2.475				13331-PD1-003
	<b>CB-2211GP</b> (85-ON)	C.R. 1-6	45.000	48.024	1.501	17.50	0.002-0.07	3.0-3.4	13211-PH6-013
<b>C25A</b> V6 84 x 75 2493cc	<b>MS-2210GP</b> (85-ON)	Main 1-4	64.000	68.024	2.000	20.00	0.03-0.074	4.7-5.3	13321-PH7-013
	<b>TW-2210GP</b> (85-ON)	T.W. NO.4	(I.D.)75.25	(O.D.)94.00	2.500				13321-PH7-014 13331-PH7-003
	<b>CB-2210GP</b> (85-ON)	C.R. 1-6	52.000	55.024	1.503	17.50	0.006-0.07	4.7-5.1	13211-PH7-013
<b>C27A</b> V6 87 x 75 2675cc	<b>MS-2210GP</b> (85-ON)	Main 1-4	64.000	68.024	2.000	20.00	0.03-0.074	4.7-5.3	13321-PH7-013
	<b>TW-2210GP</b> (85-ON)	T.W. NO.4	(I.D.)75.25	(O.D.)94.00	2.500				13321-PH7-014 13331-PH7-003
	<b>CB-2210GP</b> (85-ON)	C.R. 1-6	52.000	55.024	1.503	17.50	0.006-0.07	4.7-5.1	13211-PH7-013
<b>D12A</b> 4 cyl. 72 x 76 1237cc	<b>MS-2214A</b> (86-ON)	Main 1-4	43.000	47.000	2.007	20.00			13321-PJ7-003
	<b>TW-1134GP</b> (86-ON)	T.W. NO.4	(I.D.)56.00	(O.D.)78.00	2.475				13331-PD-003
	<b>CB-2214GP</b> (86-ON)	C.R. 1-4	39.000	42.000	1.504	18.50			13211-PJ7-003
<b>D13C</b> 4 cyl. 73.6 x 76 1296cc	<b>MS-2214A</b> (86-ON)	Main 1-4	43.000	47.000	2.007	20.00			13321-PJ7-003
	<b>TW-1134GP</b> (86-ON)	T.W. NO.4	(I.D.)56.00	(O.D.)78.00	2.475				13331-PD-003
	<b>CB-2214GP</b> (86-ON)	C.R. 1-4	39.000	42.000	1.504	18.50			13211-PJ7-003
<b>D13A</b> 4 cyl. 75 x 76 1343cc	<b>MS-2206GP</b> (86-ON)	Main 1-4	45.000	49.024	2.001	20.00	0.002-0.07	4.2-4.8	13321-PE0-044
	<b>TW-1134GP</b> (86-ON)	T.W. NO.4	(I.D.)56.00	(O.D.)78.00	2.475				13331-PD1-003
	<b>CB-2204GP</b> (D13A/B/C/ 87-ON)	C.R. 1-4	40.000	43.024	1.500	18.50	0.02-0.04	2.6-3.0	13211-PE0-003
	<b>CB-2205GP</b> (D15 87-91)	C.R. 1-4	42.000	45.024	1.500	18.50			13211-PE1-003
	<b>D15</b> 4 cyl. 75 x 84.5 1493cc	<b>CB-2208GP</b> (D15 91-ON)	C.R. 1-4	45.000	48.024	1.504	18.50	0.008-0.07	

# HONDA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>D16</b> 4 cyl 75 x 90 1590cc  <b>ZC</b> 4 cyl. 75 x 90 1590cc	<b>MS-2208GP</b> (84-95)	Main 1-4	55.000	59.024	2.007	20.00	0.014-0.06	5.2-5.8	13321-PG6-003
	<b>TW-2208GP</b> (84-95)	T.W. NO.4	(I.D.)61.25	(O.D.)82.00	2.500				13331-PG6-003
	<b>CB-2208GP</b> (84-95)	C.R. 1-4	45.000	48.024	1.504	18.50	0.008-0.07	3.0	13211-PG6-003
<b>EV1</b> 4 cyl 74 x 78 1342cc	<b>CB-2209GP</b>	C.R. 1-4	38.000	41.024	1.504	18.50			13211-PE0-661
<b>E05A</b> 3 cyl. 62.5 x 59.5 547cc	<b>MS-2212GP</b> (87-ON)	Main 1-4	40.000	44.000	2.005	19.00	0.030-0.060		13321-27-634
	<b>TW-1175A</b> (87-ON)	T.W. NO.3	(I.D.)48.00	(O.D.)66.00	2.475				13331-PG6-003
	<b>CB-2212GP</b> (87-ON)	C.R. 1-3	32.000	35.000	1.504	17.50	0.030-0.080		13211-27-PN4

# HONDA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>EB1</b> 4 cyl. 70 x 76 1169cc	<b>MS-1134GP</b> (72-87)	Main 1-5	50.000	54.024	2.010	20.00	0.03-0.06	3.7-4.3	13321-634-003
<b>EE</b> 4 cyl. 72 x 76 1238cc	<b>TW-1134GP</b> (72-87)	T.W. No.4	(I.D.)56.00	(O.D.)78.00	2.475				13331-634-003
<b>EC,ED</b> 4 cyl. 74 x 86.5 1488cc	<b>CB-1134GP</b> EB1,EE,EJ,EN (72-81)	C.R. 1-4	40.000	43.024	1.500	17.50	0.02-0.04	2.7-3.1	13211-PB9-003
<b>EF</b> 4 cyl. 74 x 93 1599cc	<b>CB-1142GP</b> EC,ED,EF,EK,EM, EP (72-82)	C.R. 1-4	42.000	45.024	1.500	17.50	0.02-0.04	2.7-3.1	13211-PC1-003
<b>EJ,EN</b> 4 cyl. 72 x 82 1335cc	<b>CB-2204GP</b> EV (83-87)	C.R. 1-4	40.000	43.024	1.500	18.50	0.02-0.04	2.6-3.0	13211-PE0-003
<b>EK</b> 4 cyl. 77 x 94 1750cc	<b>CB-2205GP</b> EW (83-87)	C.R. 1-4	42.000	45.024	1.500	18.50	0.02-0.08	2.6-3.0	13211-PE1-003
<b>EM</b> 4 cyl. 74 x 86.5 1488cc									
<b>EP</b> 4 cyl. 77 x 86 1601cc									
<b>EV</b> 4 cyl. 74 x 78 1342cc									
<b>EW</b> 4 cyl. 74 x 86.5 1488cc									

# HONDA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>EH</b> 2 cyl. 72 x 67 545cc	<b>MS-1175A</b> (77-82)	Main 1-3	42.000	46.024	2.010	20.00	0.02-0.05	3.7-4.3	13321-679-003
	<b>MS-2202A</b> (82-87)	Main 1-3	38.000	42.024	2.001	20.00	0.02-0.05	6.1-7.0	13321-679-013
	<b>TW-1175A</b> (77-87)	T.W. No.3	(I.D.)48.00	(O.D.)66.00	2.475				13331-679-003
	<b>CB-1175GP</b> (77-87)	C.R. 1-2	40.000	43.024	1.500	17.50	0.02-0.04	2.7-3.1	13211-PA5-003
<b>ER</b> 4 cyl. 66 x 90 1231cc <b>ER-T</b> 4 cyl. 66 x 90 1231cc	<b>MS-2206GP</b> (81-86)	Main 1-5	45.000	49.024	2.001	20.00	0.002-0.07	4.2-4.8	13321-PC0-003
	<b>TW-1134GP</b> (81-86)	T.W. NO.4	(I.D.)56.00	(O.D.)78.00	2.475				13331-634-003
	<b>CB-1134GP</b> (ER-T 81-86)	C.R. 1-4	40.000	43.024	1.500	17.50	0.02-0.04	2.7-3.1	13211-634-003
	<b>CB-2206GP</b> (ER 81-85)	C.R. 1-4	37.000	40.000	1.504				13211-PC0-004
<b>ES</b> 4 cyl. 80 x 91 1829cc <b>ET</b> 4 cyl. 80 x 91 1829cc <b>EY</b> 4 cyl. 80 x 79.5 1598cc	<b>MS-2200GP</b> (83-86)	Main 1-5	50.000	54.024	2.010	20.00	0.03-0.10	6.3-7.3	13321-PC6-003
	<b>TW-1134GP</b> (83-86)	T.W. NO.4	(I.D.)56.00	(O.D.)78.00	2.475				13331-634-003
	<b>CB-2200GP</b> (ES,ET 83-86)	C.R. 1-4	45.000	48.024	1.500	19.50	0.02-0.08	3.0-3.4	13331-679-003 13211-PC6-003
	<b>CB-2203GP</b> (EY 83-ON)	C.R. 1-4	42.000	45.024	1.500	17.50	0.02-0.04	2.6-3.0	13211-PD4-003
<b>F20A</b> 4 cyl. 85 x 88 1997cc  <b>F22</b> 4 cyl. 85 x 95 2156cc	<b>MS-2213GP</b> (89-ON)	Main 1-5	50.000	54.000	2.000	20.00	0.020-0.054		13321-PT0-004
	<b>TW-2213A</b> (89-ON)	T.W.	(I.D.)57.50	(O.D.)78.00	2.490				13331-PT0-003
	<b>CB-2213GP</b> (89-ON)	C.R. 1-4	48.000	51.000	1.500	19.50	0.013-0.087		13211-PH3-004

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>3AE1</b> 3 cyl. 80 x 86 1296cc  <b>3AF1</b> 3 cyl. 76 x 86 1170cc	<b>MS-1602GP</b> (3AE1 80-ON)  <b>TW-1070GP</b> (ALL 80-ON)	Main 1.3.	69.932	74.000	2.015	26.63	0.020-0.074	16.0-18.0	5-11510-033
		2.4.	69.932	74.000	2.015	21.40	0.020-0.074		
	<b>MS-1602A</b> (3AE1 80-ON 3AF1 80-85)  <b>PB-1602J</b> (3AE1 80-ON) (3AF1 80-85)	T.W. No.2	(I.D.)78.0	(O.D.)93.0	2.480				9-11581-057
		C.R. 1-3	48.937	52.000	2.013	22.00	0.025-0.081	7.8-8.2	5-12271-032
<b>4BD1</b> 4 cyl. 102 x 118 3856cc  <b>4BD1-T</b> 4 cyl. 102 x 118 3856cc  <b>UM4BD1</b> 4 cyl. 102 x 118 3856cc  <b>UM4BD1-T</b> 4 cyl. 102 x 118 3856cc	<b>MS-1604GP</b> (81-ON)  <b>TW-1155GP</b> (81-ON)	Main 1-5	79.925	85.019	2.518	26.68	0.039-0.098	23.0-25.0	5-11510-064
		3-L	79.925	85.019	2.518	26.68	0.039-0.098		
	<b>C1-1129GP</b> (81-ON)  <b>SH-1163B</b> (81-ON)  <b>PB-1163J</b> (81-ON)	T.W. No.4	(I.D.)88.0	(O.D.)101.0	2.500				5-11685-001
		C.R. 1-4	63.944	68.015	2.013	29.80	0.030-0.073	11.0-12.0	5-12271-010
		Cam 1	55.970	60.046	1.995	20.00	0.030-0.090		9-11691-048 9-11693-035
		2.3. P.B. 1-4	55.970 35.000	60.046 38.025	1.995 1.530	20.00 38.00	0.030-0.090 0.012-0.025		5-12251-006

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Posi- tion	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>4BA1</b> 4 cyl 98 x 92 2775cc	<b>M1-1129GP</b> (4BA1 73-77) (4BB1 73-77)	Main 1-5	75.925	81.019	2.525	27.80	0.025-0.076	23.0-25.0	5-11510-002
<b>4BB1</b> 4 cyl 102 x 110 3595cc	<b>MS-1163GP</b> (4BA1 78-80) (4BB1 78-80) (4BC1 79-81)	Main 1.2.4.5. 3	75.925 75.925	81.019 81.019	2.525 2.525	27.80 27.80	0.025-0.076 0.025-0.076	23.0-25.0	5-11510-051
<b>4BC1</b> 4 cyl 102 x 100 3268cc	<b>MS-1603GP</b> (4BA1 85-96) (4BB1 85-96)	Main 1-5 3-L	75.925 75.925	81.019 81.019	2.525 2.525	27.80 27.80	0.025-0.075 0.025-0.075	23.0-25.0	5-11510-060
<b>4BC2</b> 4 cyl 102 x 100 3268cc	(4BC1 81-84) (4BC2 81-96) (4BC2F 83-94) (UM4BC2 83-94)								
<b>4BE1</b> 4 cyl 105 x 105 3636cc	(4BE1 85-96) (4BE1T 85-96)								
<b>4BE1-T</b> 4 cyl 105 x 105 3636cc	<b>TW-1129GP</b> (4BA1/2 78-85) (4BB1/2 78-85) (4BC112 78-85)	T.W. No.4	(I.D.)84.5	(O.D.)101.0	2.500				9-11585-601
<b>UM4BC2</b> 4 cyl 102 x 100 3268cc	<b>TW-1155GP</b> (4BA1 85-96) (4BB1 85-96) (4BC1 81-84) (4BC2 85-96) (4BE1 85-96) (4BE1T 85-96)	T.W. No.	(I.D.)88.0	(O.D.)101.0	2.500				5-11685-001
	<b>C1-1129GP</b> (ALL 73-96)	C.R. 1-4	63.944	68.015	2.013	29.80	0.030-0.073	11.0-12.0	5-12271-010
	<b>SH-1163B</b> (77-78)	Cam 1 2.3.	55.970 55.970	60.046 60.046	1.995 1.995	20.00 20.00	0.030-0.090 0.030-0.090		9-11691-048 9-11693-035
	<b>PB-1100J</b>	P.B. 1-4	33.000	36.025	1.530	38.00	0.012-0.025		9-12251-059
	<b>PB-1129J</b>	P.B. 1-4	33.000	38.025	2.530	38.00	0.012-00.025		9-12251-603
	<b>PB-1163J</b>	P.B. 1-4	35.000	38.025	1.530	38.00	0.012-0.025		5-12251-006

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>4BA1</b> 4 cyl 98 x 92 2775cc	<b>MS-1163GP</b> (4BB1 78-80) (4BC1 79-81)	Main 1.2.4.5. 3	75.925	81.019	2.525	27.80	0.025-0.076	23.0-25.0	5-11510-051
			75.925	81.019	2.525	27.80	0.025-0.076		
<b>4BB1</b> 4 cyl 102 x 110 3595cc	<b>MS-N/A</b> (4BB1 81-85)	Main 1-5	75.925	81.019	2.525	27.83	0.025-0.076	23.0-25.0	5-11510-065
<b>4BC1</b> 4 cyl. 102 x 100 3268cc	<b>MS-1603GP</b> (4BB1 85-ON) (4BC1 81-84) (4BC2 81-ON) (4BC2F 83-94) (4BE1/T 85-ON)	Main 1-5	75.925	81.019	2.525	27.80	0.025-0.075	23.0-25.0	5-11510-060
		3-L	75.925	81.019	2.525	27.80	0.025-0.075		
<b>4BC2</b> 4 cyl. 102 x 100 3268cc	<b>TW-1129GP</b> (4BB1/2 78-85) (4BC1/2 78-85)	T.W. No.4	(I.D.)84.5	(O.D.)101.0	2.500				9-11585-601
<b>4BE1</b> 4 cyl. 105 x 105 3636cc	<b>TW-1155GP</b> (4BBA 85-ON) (4BC1 81-84) (4BC2 85-ON) (4BE1 85-ON) (4BE1T 85-ON)	T.W. No.	(I.D.)88.0	(O.D.)101.0	2.500				5-11685-001
<b>4BE1-T</b> 4 cyl 105 x 105 3636cc	<b>CB-1603GP</b> (C1-1129GP) (73-96)								
<b>UM4BC2</b> 4 cyl. 102 x 100 3268cc	<b>SH-1163B</b> (77-ON)  <b>PB-1100J</b> (78-80)  <b>PB-1129J</b> (4BC1 79-85) (4BC2 81)  <b>PB-1163J</b> (4BB1 73-ON) (4BC2 82-ON) (4BC2-F 83-94) (4BE1/T 85-ON)	C.R. 1-4	63.944	68.015	2.013	29.80	0.030-0.073	11.0-12.0	5-12271-010
		Cam 1	55.970	60.046	1.995	20.00	0.030-0.090		9-11691-048 9-11693-035
		2.3. P.B. 1-4	55.970 33.000	60.046 36.025	1.995 1.530	20.00 38.00	0.030-0.090 0.012-0.025		9-12251-059
		P.B. 1-4	33.000	38.025	2.530	38.00	0.012-0.025		9-12251-603
		P.B. 1-4	35.000	38.025	1.530	38.00	0.012-0.025		5-12251-006
<b>N/A (NOT AVAILABLE AT THIS TIME)</b>									

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>6BB1</b> 6 cyl 102 x 110 5393cc	<b>M1-1129GP</b> (72-76)	Main 1-7	75.925	81.019	2.525	27.80	0.025-0.076	23.0-25.0	9-11510-606
	<b>MS-1611GP</b> (76-79)	Main 1-7	79.925	85.019	2.525	26.70	0.025-0.076	23.0-25.0	5-11510-048
<b>6BD1</b> 6 cyl 102 x 118 5785cc	<b>MS-1612GP</b> (80-ON)	4-L Main 1-7	79.925	85.019	2.525	26.70	0.025-0.076		1-11510-040
	<b>TW-1129GP</b> (72-76)	T.W. No.4	(I.D.)84.5	(O.D.)101.0	2.500				9-11585-601
<b>6BF1</b> 6 cyl. 102 x 118 5785cc	<b>TW-1155GP</b> (76-ON)	T.W. No.4	(I.D.)88.0	(O.D.)101.0	2.500				5-11685-001
	<b>C1-11292GP</b> (72-ON)	C.R. 1-6 Cam	63.944	68.015	2.013	29.80	0.030-0.073	11.0-12.0	9-12271-608
<b>6BG1</b> 6 cyl 105 x 118 6130cc	<b>SH-1129B</b> (72-ON)	1	55.970	60.046	1.995	20.00	0.030-0.090		9-11691-048
	<b>PB-1155J</b> (72-ON)	2-6 P.B.	55.970	60.046	1.995	20.00	0.030-0.090		9-11693-035
		1-6	35.000	38.025	1.530	38.00	0.012-0.025		5-12251-006

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number			
			Shaft Dia	Housing Bore	Wall Thickness							
<b>C190</b> 4 cyl 86 x 84 1951cc	<b>MS-1138GP</b> (C190 71-83)	Main							5-11510-020			
		1.5.	59.932	64.000	2.013	31.00	0.034-0.099	16.0-18.0				
		2.4.	59.932	64.000	2.013	23.00	0.034-0.099					
	<b>C223</b> 4 cyl 82 x 92 2238cc	<b>MS-1605GP</b> (C223 80-83)	3	59.932	64.000	2.013	38.00	0.034-0.099	8-94104-726			
			Main									
			1.5.	59.932	64.000	2.015	27.50	0.034-0.099				
		<b>TW-1622GP</b> (71-83)	(TW-1031B)	2.4.	59.932	64.000	2.015	23.00	0.034-0.099	9-11581-048		
				3	59.932	64.000	2.015	28.60	0.034-0.099			
				T.W.								
			<b>CB-1070GP</b> (71-83)	No.3	(I.D.)73.0	(O.D.)87.0	2.480			7.8-8.2		
					C.R.							
					1-4	52.930	56.000	1.513	22.50		0.029-0.082	
				Cam	1	47.975	52.035	2.010	25.00		0.019-0.088	
					2	47.975	52.035	2.010	25.00		0.019-0.088	
					3	47.975	52.035	2.010	25.00		0.019-0.088	
<b>SH-1070B</b> (C190 71-83)	Cam	1	47.975	52.035	2.025	22.00	0.019-0.088	6-11610-002				
		2	47.975	52.035	2.025	22.00	0.019-0.088					
		3	47.975	52.035	2.025	22.00	0.019-0.088					
<b>SH-1605B</b> (C223 80-83)	P.B.	1-4	27.000	30.025	1.530	34.00	0.008-0.020	9-12271-062				
		P.B.	1-4	27.000	30.025	1.530	30.00		0.008-0.020			
			1-4	27.000	30.025	1.530	30.00		0.008-0.020			
<b>C221</b> 4 cyl 83 x 102 2207cc	<b>MS-1610GP</b> (68-85)	Main						5-11510-021				
		1.5.	69.932	74.000	2.012	30.50	0.034-0.099					
		2.4.	69.932	74.000	2.012	21.40	0.034-0.099					
	<b>C240</b> 4 cyl 86 x 102 2369cc	<b>TW-1070GP</b> (68-85)	3	69.932	74.000	2.012	36.00	0.034-0.099	9-11581-057			
			T.W.									
			No.3	(I.D.)78.0	(O.D.)93.0	2.480						
		<b>CB-1070GP</b> (68-85)	C.R.	1-4	52.930	56.000	1.513	22.50	0.029-0.082	7.8-8.2		
				Cam	1	47.975	52.035	2.010	25.00		0.019-0.088	
					2	47.975	52.035	2.010	25.00		0.019-0.088	
			3		47.975	52.035	2.010	25.00	0.019-0.088			
			<b>PB-1033J</b> (C221 68-79)	P.B.	1-4	25.000	28.000	1.545	34.00		0.008-0.020	9-12251-061
					P.B.	1-4	27.000	30.025	1.530		34.00	
		1-4				27.000	30.025	1.530	30.00	0.008-0.020		
		<b>PB-1605J</b> (C240 LATE)	P.B.	1-4	27.000	30.025	1.530	30.00	0.008-0.020	9-12251-005		

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>C330</b> 4 cyl 98 x 110 3318cc	<b>MS-1628GP</b> (70-81) (M1-1129GP)	Main 1-5	75.925	81.019	2.525	27.80	0.025-0.076	23.0-25.0	9-11510-167
	<b>TW-1100GP</b> (70-81)	T.W. No.4	(I.D.)84.0	(O.D.)101.0	2.980				9-11585-065
	<b>CB-1603GP</b> (70-81) (C1-1129GP)	C.R. 1-4	63.944	68.015	2.013	29.30	0.030-0.073	10.3-10.8	9-12271-178
	<b>SH-1100B</b> (70-76)	Cam 1-4	55.970	60.046	1.530	38.00	0.030-0.090		9-11691-048
	<b>SH-1163B</b> (77-81)	Cam 1	55.970	60.046	1.995	20.00	0.030-0.090		9-11691-048
		2.3.	55.970	60.046	1.995	20.00	0.030-0.090		9-11693-035
	<b>PB-1100J</b> (70-73)	P.B. 1-4	33.000	36.025	1.530	38.00	0.012-0.025		9-12251-059
	<b>PB-1129J</b> (73-81)	P.B. 1-4	33.000	38.025	2.530	38.00	0.012-0.025		9-12251-063
<b>D500</b> 6 cyl 98 x 100 4978cc	<b>MS-1629GP</b> (70-81) (M1-1129GP)	Main 1-7	75.925	81.019	2.525	27.80	0.025-0.076	23.0-25.0	5-11510-041
	<b>TW-1100GP</b> (70-81)	T.W. No.4	(I.D.)84.0	(O.D.)101.0	2.980				9-11585-065
	<b>CB-1612GP</b> (C1-1129GP)	C.R. 1-6	63.944	68.015	2.013	29.30	0.030-0.090	10.3-10.8	9-12271-178
	<b>SH-1129B</b> (70-81)	Cam 1	55.970	60.046	1.995	20.00	0.030-0.090		9-11691-048
		2-6	55.970	60.046	1.995	20.00	0.030-0.090		9-11693-035
	<b>PB-1629J</b> (70-81)	P.B. 1-6	33.000	38.025	1.530	38.00	0.012-0.025		9-12251-059
<b>4EC1/T</b> 4 cyl 76 x 82 1487cc	<b>MS-1624GP</b> (4EC1 85-ON)	Main 1-5	47.938	52.000	2.006	15.40	0.030-0.058	9.0	8-94151-600
	<b>MS-1625GP</b> (4EC1-T 85-ON)	Main 1-5	51.938	56.000	2.006	15.40	0.030-0.060	9.0	8-94154-014 8-94124-100
	<b>TW-1625GP</b> (85-ON)	T.W. No.2	(I.D.)59.0	(O.D.)69.95	2.210				8-94227-387
	<b>CB-1624A</b> (85-ON)	C.R. 1-4	45.945	49.000	1.506	16.70	0.025-0.058	2.5	8-94141-604 8-94314-253-0 8-94151-604 8-94251-216
	<b>PB-1624J</b> (4EC1 85-ON)	P.B. 1-4	22.000	25.025	1.540	23.75			
	<b>PB-1625J</b> (4EC1-T 85-ON)	P.B. 1-4							8-94114-054

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>4FA1</b> 4 cyl 76 x 82 1487cc	<b>MS-1616GP</b> (80-90)  <b>TW-1030GP</b>	Main							
		1-5 3L T.W.	55.930 55.930	60.000 60.000	2.000 2.000	21.50 21.50	0.029-0.072	10.0-11.0	8-94220-838 8-94210-750
<b>4FB1</b> 4 cyl 84 x 82 1817cc	(80-82) <b>TW-1616GPA</b> (82-90) <b>CB-1616GP</b>	No.3	(I.D.)63.0	(O.D.)80.0	2.360				
		T.W. No.3 C.R.	(I.D.)64.0	(O.D.)80.2	2.360				8-94250-265 8-94221-167
<b>4FC1</b> 4 cyl 84 x 90 1995cc	(80-90) <b>SH-1166B</b> (80-90) <b>PB-1166J</b>	1-4	48.940	52.000	2.000	22.00	0.035-0.073	8.0-9.0	
		Cam 1-5 P.B.	27.975	31.025	1.500	16.00	0.025-0.090	2.6	5-11611-010 5-12251-007
<b>4FE1</b> 4 cyl 73.6 x 82 1499cc	(80-90) <b>PB-</b> (83-90)	1-4 P.B.	25.000	28.025	1.530	26.00	0.008-0.020		
<b>4FD1</b> 4 cyl 88 x 90 2189cc									
<b>4FG1</b> 4 cyl 89.3 x 95 2380cc									
<b>G130</b> 4 cyl 75 x 75 1325cc	<b>MS-1103GP</b> (66-85)  <b>TW-1030GP</b>	Main							
		1.3.5. 2.4. T.W.	55.935 55.935	59.000 59.000	1.513 1.513	32.00 21.00	0.026-0.069 0.026-0.069	8.0-12.0	9-11510-609 8-94215-641 9-11510-141 8-94250-574 8-94210-750
<b>G150</b> 4 cyl 49 x 75 1471cc	(66-85) <b>CB-1032GP</b> (66-78) <b>CB-1628GP</b>	No.3	(I.D.)63.0	(O.D.)80.0	2.360				
		C.R. 1-4 C.R.	48.940	52.000	1.513	22.00	0.029-0.070	4.3-4.7	8-94424-465 9-12271-143 8-94424-246 8-94218-061
<b>G161</b> 4 cyl 82 x 75 1584cc	(79-85) (CB-1103GP) <b>SH-1032B</b> (Early except G200)	1-4	48.940	52.000	1.513	22.00	0.029-0.070	4.3-4.7	
		Cam 1-3	44.975	48.030	1.505	25.00	0.025-0.125		5-11611-002
<b>G180</b> 4 cyl 84 x 82 1817cc	<b>SH-1103B</b> (Late except G200)  <b>PB-1032J</b>	Cam							
		1.2.3.5. 4 P.B.	49.9750 49.9750	48.030 48.030	1.505 1.505	22.00 18.00	0.019-0.080 0.019-0.080		9-11611-035 9-12251-045
<b>G200</b> 4 cyl 87 x 82 1949cc	(66-78)	1-4	22.000	25.421	1.730	26.00	0.006-0.012		

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>G200W</b> 4 cyl 87 x 82 1949cc	<b>MS-1620GP</b> (84-ON)	Main 1-5	55.935	60.000	2.010	22.00	0.032-0.072	10.0	8-94215-263
	<b>TW-1616A</b> (84-ON)	T.W. No.3	(I.D.)64.0	(O.D.)80.2	2.360				8-94250-265
	<b>CB-1620GP</b> (84-ON)	C.R. 1-4	48.940	52.000	1.513	21.50	0.019-0.072	6.0	8-94251-266
<b>4JA1</b> 4 cyl 93 x 92 2499cc	<b>MS-1622GP</b> (4JA1 85-ON)	Main 1-5	59.932	64.000	2.005	23.00	0.035-0.080	17.0	8-94168-553
	<b>MS-1623GP</b> (4JB1 95-ON)	Main 1-5	69.932	74.000	2.005	23.00	0.035-0.080	17.0	8-94168-552
<b>4JB1</b> 4 cyl 93 x 102 2771cc	<b>TW-1622GP</b> (4JA1 85-ON)	T.W. No.3	(I.D.)73.0	(O.D.)87.0	2.480				8-94125-752
	<b>TW-1070GP</b> (4JB1 85-ON)	T.W.							8-94130-923
	<b>CB-1622GP</b> (85-ON)	No.3 C.R. 1-4	(I.D.)78.0	(O.D.)93.0	2.480				8-94125-747
	<b>SH-1622B</b> (85-ON)	Cam 1 2.3.	49.975 49.975	54.035 54.035	2.025 2.025	25.00 22.00	0.025-0.085 0.025-0.085		8-94168-556
	<b>PB-1622J</b> (85-ON)	P.B. 1-4	31.000	34.025	1.530	33.00	0.008-0.020	8.0-9.0	8-94247-968
	<b>6QA1</b> 6 cyl 125 x 150 11,044cc	<b>MS-1609GP</b> (80-ON)	Main 1-3.5.6. 4 7	91.915 91.915 91.915	98.000 98.000 98.000	3.013 3.013 3.013	34.00 51.00 49.50	0.029-0.120 0.029-0.120 0.029-0.120	25.0-28.0
<b>TW-1071GP</b> (80-ON)		T.W. No.1	(I.D.)101.0	(O.D.)118.5	3.470				9-11515-198
<b>CB-1609GP</b> (80-ON)		C.R. 1-6	79.925	86.000	3.013	41.50	0.029-0.105	14.5-17.5	1-12271-024
<b>6QA2</b> 6 cyl 125 x 150 11044cc	<b>PB-1029J</b> (80-ON)	P.B. 1-6	45.990	52.035	3.035	46.00	0.014-0.036		9-12251-073

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number		
			Shaft Dia	Housing Bore	Wall Thickness						
<b>6RA1</b> 6 cyl 135 x 140 12023cc	<b>MS-1613GP</b> (81-ON)	Main 1-3.5.6. 4 7	99.900	106.000	3.010	34.00	0.045-0.120	36.0-42.0	1-11510-039		
			99.900	106.000	3.010	51.00	0.045-0.120				
			99.900	106.000	3.010	49.50	0.045-0.120				
	<b>6RB1</b> 6 cyl 135 x 160 13741cc	<b>TW-1102GP</b> (6RA1 81-85)	T.W. No.1	(I.D.)111.0	(O.D.)133.5	3.480			9-11515-216		
				(I.D.) 111.25	(O.D.)133.9	3.580			1-11515-040		
		<b>CB-1154GP</b> (6RA1 81-85)	C.R. 1-6	87.925	94.000	3.010	42.30	0.033-0.103	9.0-11.0	1-12271-029	
<b>CB-1613GP</b> 6RB1 81-ON				C.R. 1-6	89.920	96.000	3.010	39.00	0.033-0.103	9.0-11.0	1-12271-028
					<b>PB-1154J</b> (81-ON)	P.B. 1-6	50.000	56.036	3.050	44.00	0.014-0.036
<b>6SA1</b> 6 cyl 115 x 135 8413cc	<b>MS-1618GP</b> (85-ON)	Main 1-7	89.930	96.020			3.013	27.50	0.045-0.110	10.0-13.5	1-11510-067
			<b>TW-1618K</b> (85-ON)	T.W. No.7	(I.D.)	(O.D.)				1-11599-007	
	101.25	124.0			3.500			1-12271-050			
	77.914	84.000			3.013	27.50	0.040-0.106	4.0	1-12251-016		
			38.000	43.000		2.550	(U) 26.0				
					(L) 38.0						
<b>4XC1/T</b> 4 cyl 77 x 79 1471cc	<b>MS-1621A</b> (85-90)	Main 1-5	47.938	52.000	2.000	17.00	0.020-0.074	8.5-9.5	8-94151-527		
			<b>MS-1626GP</b> (90-ON)	Main						8-94360-465	
	<b>TW-1621A</b> (85-90)	T.W. No.3			(I.D.)55.0	(O.D.)70.0	2.200			8-94257-903	
					<b>TW-1616A</b> (90-ON)	T.W.					
	<b>CB-1621A</b> (4XC1/T 85-ON)	C.R. 1-4	39.945	43.000			1.500	17.00	0.021-0.064	3.3-3.7	8-94311-012
			<b>CB-1626GP</b> (4XE1 88-ON)	C.R. 1-4	39.945	43.000	1.500	17.00	0.021-0.064	3.3-3.7	8-94481-860

# ISUZU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Posi- tion	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>4ZA1</b> 4 cyl 82 x 84 1584cc	<b>MS-1620GP</b> (81-ON)	Main 1-5	55.932	60.000	2.010	22.00	0.032-0.072	10.0	8-94251-263
	<b>TW-1616A</b>	T.W.							8-94251-265
	(81-ON)	No.3	(I.D.) 64.0	(O.D.) 80.2	2.360				
<b>4ZB1</b> 4 cyl 84 x 82 1817cc	<b>CB-1620GP</b> (81-ON)	C.R. 1-4	48.940	52.000	1.513	21.50	0.025-0.065	4.3-4.7	8-94251-266
<b>4ZC1</b> 4 cyl 88 x 82 1994cc									
<b>4ZE1</b> 4 cyl 92.6 x 95 2559cc	<b>MS-1627GP</b> (87-ON)	Main 1-5	55.932	60.000	2.010	22.00	0.028-0.086	10.0	8-94446-580-1
	<b>TW-1616A</b> (87-ON)	T.W. No.	(I.D.)64.0	(O.D.)80.2	2.360				8-94251-265
	<b>CB-1627A</b> (87-ON)	C.R. 1-4	48.940	52.000	1.510				22.00

# MAZDA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>B1</b> 4 cyl 68 x 78.4 1138cc	<b>MS-2008A</b> (85-86)	Main 1-5	49.950	54.018	2.000	17.50	0.024-0.042	5.5-6.0	B6Y0-11-SG0
<b>B3</b> 4 cyl 71 x 83.6 1323cc	<b>MS-2012A</b> (86-ON)	Main 1-5	49.956	54.018	2.013	17.5	0.018-0.074 0.018-0.074	5.5-6.0	B6Y1-11-SG0
<b>B5</b> 4 cyl 78 x 78.2 1498cc	<b>TW-2008A</b> (85-ON)	T.W. No.4	(I.D.)57.25	(O.D.)69.0	2.550				B6Y0-11-SG0
<b>B6</b> 4 cyl 78 x 83.6 1597cc	<b>CB-1168A</b> (B1/B3/B5 85-ON)	C.R. 1-4	39.955	43.016	1.513	17.00	0.021-0.068	3.5-4.0	B3Y0-11-SE0
<b>B6-T</b> 4 cyl 78 x 83.6 1597cc	<b>CB-2008A</b> (B6/B6T 85-ON)	C.R. 1-4	44.956	48.016	1.500	17.00	0.028-0.068	4.7	B6Y0-11-SE0
	<b>PB-2008J</b> (B6 85-86)	P.B. 1-4	19.993	23.000	1.543	21.80			B660-11-213
<b>E1</b> 4 cyl 70 x 69.6 1071cc	<b>MS-1168A</b> (E1/3/5 80-ON) (TC 78-86) (UC 78-ON)	Main 1-5	49.955	54.019	2.013	19.00	0.019-0.069	6.0-6.5	E301-23-151
<b>E3</b> 4 cyl 77 x 69.6 1296cc	<b>TW-1168A</b> (E1/3/5 80-ON)	T.W. 1-5	(I.D.)57.0	(O.D.)69.0	2.010				8034-11-380
<b>E5</b> 4 cyl 77 x 80 1490cc	<b>CB-1168A</b> (E1/3/5 80 -ON) (TC 78-86) (UC 78-ON)	C.R. No.4	39.955	43.016	1.513	17.00	0.021-0.068	3.5-4.0	8936-23-105
<b>TC</b> 4 cyl 73 x 76 1272cc									
<b>UC</b> 4 cyl 77 x 76 1415cc									

# MAZDA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>F6</b> 4 cyl 81 x 77 1587cc	<b>MS-2004A</b> (F6/8/FE 82-87)	Main 1-5 Δ3(L)	59.955	64.019	2.013	19.00	0.017-0.071	8.4-9.4	F801-23-251
			59.955	64.019	2.013	27.95	0.017-0.071		
<b>F8</b> 4 cyl 86 x 77 1789cc	<b>MS-2009A</b> (87-96)	Main 1.2.4.5. 1-5(L) Δ3(U)	59.955	64.019	2.013	19.00	0.019-0.073	8.4-9.0	FE1H-11-SG0
			59.955	64.019	2.013	19.00	0.019-0.073		
			59.955	64.019	2.013	27.95	0.019-0.073		
<b>FE</b> 4 cyl 86 x 86 1998cc	<b>CB-2004A</b> (F6/8 82-ON)	C.R. 1-4	50.955	54.017	1.510	21.00	0.027-0.067	5.1-5.6	F801-23-105A
			<b>CB-2009A</b>	C.R.					
<b>FE-T</b> 4 cyl 86 x 86 1998cc	<b>(FE/T/2 87-ON)</b>	1-4	50.955	54.017	1.510	21.00	0.027-0.067	5.1-5.6	FEYA-11-SE0
<b>F2</b> 4 cyl 86 x 94 2184cc									
<b>HA</b> 4 cyl 95 x 105 2977cc	<b>MS-1153GP</b> (77-92)	Main 1-5	75.825	80.092	2.103	28.60	0.055-0.114	11-11.7	SE01-23-110
	<b>TW-1135K</b> (77-92)	T.W.	(I.D.)84.5	(O.D.)101.4	2.325				1363-23-115
	<b>CB-1153GP</b> (77-92)	C.R. 1-4	61.125	64.846	1.836	28.50	0.036-0.088	7.6-8.3	1363-23-105
	<b>PB-1075J</b> (77-80)	P.B. 1-4	31.749	34.955	1.620	26.80	0.014-0.044		0636-11-213
	<b>PB-2005J</b> (HA 81-90)	P.B. 1-4	30.000	33.000	1.500	34.00	0.012-0.033		SE01-11-213
	<b>PB-2006J</b> (SL 84-ON)	P.B. 1-4	34.000	37.039	1.535	34.00	0.012-0.040		SL01-11-213
<b>JE</b> V6 90 x 77.4 2954cc	<b>MS-2010GP</b> (86-ON)	Main 1-4	61.955	66.019	2.012	18.00	0.021-0.081	2.0+90°	JFY1-11-SG0
	<b>TW-2010GP</b> (86-ON)	T.W.	(I.D.)68.25	(O.D.)80.0	2.050				JFY1-11-SJ0
	<b>CB-2010A</b> (86-ON)	C.R. 1-6	52.955	56.019	1.511	17.00	0.023-0.085	3.0+80°	JEY1-11-SE0

# MAZDA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>MA</b> 4 cyl 80 x 98 1970cc	<b>MS-1114A</b> (70-84)	Main							0305-23-151C
		1.2.4.	62.955	67.020	2.013	18.00	0.021-0.075	8.4-9.0	
		3	62.955	67.020	2.013	24.00	0.021-0.075		
<b>NA</b> 4 cyl 78 x 83 1586cc	<b>TW-1061GP</b> (70-84)	T.W.							0305-23-201B
		No.5	(I.D.)70.0	(O.D.)86.0	2.050				
<b>UB</b> 4 cyl 78 x 78 1490cc	<b>CB-1086A</b> (MA/VB 77-84)	C.R.							3975-23-105A
		1-4	52.955	56.020	1.513	22.00	0.027-0.077	4.4-4.6	
<b>VB</b> 4 cyl 78 x 94 1796cc	<b>CB-1141A</b> (NA/UB/VC 70-84)	C.R.							0222-23-105A
		1-4	52.955	56.020	1.510	20.80	0.030-0.069	4.4-4.6	
<b>VC</b> 4 cyl 80 x 88 1769cc	<b>SH-1061B</b> (70-84)	Cam							0221-23-150
		1	44.960	49.034	2.015	24.13	0.019-0.069	7.7-8.3	
	<b>PB-1114J</b> (70-84)	2.3.	44.960	49.034	2.015	18.13	0.019-0.069		0107-11-212
		P.B.							
		1-4	21.990	25.021	1.535	28.00	0.003-0.021		
<b>PC</b> 4 cyl 70 x 64 985cc	<b>MS-1113GP</b> (70-78)	Main							0324-23-151A
		1.2.4.	62.955	67.019	2.008	20.00	0.025-0.079	6.0-6.5	
		3.5.	62.955	67.019	2.008	23.00	0.025-0.079		
<b>TC</b> 4 cyl 73 x 76 1272cc	<b>TW-1113K</b> (70-78)	T.W.							0324-11-380
		No.5	(I.D.)70.0	(O.D.)80.0	2.000				
<b>R2</b> 4 cyl 86 x 94 2184cc	<b>CB-1082A</b> (70-78)	C.R.							0249-23-105
		1-4	44.955	48.017	1.510	19.50	0.027-0.073	3.5-4.0	
<b>RF</b> 4 cyl 86 x 86 1998cc	<b>PB-1082J</b> (70-78)	P.B.							0249-11-213
		1-4	19.990	23.021	1.535	24.00	0.003-0.015		
	<b>MS-2007A</b> (83-ON)	Main							RF01-23-135A
		1.2.4.5.	59.955	64.019	2.013	19.00	0.025-0.074	8.4-9.0	
		3	59.955	64.019	2.013	21.00	0.025-0.074		
	<b>TW-2007A</b> (83-ON)	T.W.							RF01-23-115
		No.3	(I.D.)69.05	(O.D.)84.4					
	<b>CB-2004A</b> (83-ON)	C.R.							RF01-23-105
		1-4	50.955	54.017	1.510	21.00	0.023-0.065	6.6-7.0	
	<b>PB-2007J</b> (83-ON)	P.B.							RF01-11-213
		1-4	25.000	28.033	1.530	26.80	0.014-0.030		

# MAZDA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>S2</b> 4 cyl 88.9 x 89 2209cc	<b>MS-1181GP</b> (79-86)	Main 1-5	65.000	69.026	1.983	28.60	0.040-0.105	11-11.7	1456-23-110	
	<b>TW-1181A</b> (79-86)	T.W. No.3	(I.D.)73.55	(O.D.)90.3	2.325				1456-23-115	
	<b>CB-1181GP</b> (79-86)	C.R. 1-4	53.000	56.709	1.833	28.50	0.036-0.088	6.9-7.5	1456-23-105A	
	<b>PB-1181J</b> (79-86)	P.B. 1-4	28.000	31.039	1.530	26.80	0.014-0.035		1456-11-213	
<b>VA</b> 4 cyl 82 x 94 1985cc	<b>MS-1141A</b> (71-79)	Main 1	62.955	67.020	2.007	24.50	0.036-0.074	8.4-9.0	0552-23-140	
		Δ2	62.955	67.020	2.007	36.00	0.036-0.074			
		3	62.955	67.020	2.007	30.00	0.036-0.074			
	<b>CB-1141A</b> (71-79)	C.R. 1-4	52.955	56.020	1.510	20.80	0.030-0.069	4.8-5.3	0552-23-105	
	<b>SH-1141B</b> (71-79)	Cam 1	49.990	53.030	1.505	25.00	0.010-0.083		0552-23-710A	
		2	48.990	52.030	1.505	28.00	0.010-0.083			
		3	44.990	48.030	1.505	25.00	0.010-0.083			
	<b>PB-1114J</b> (71-79)	P.B. 1-4	21.990	25.021	1.535	28.00	0.003-0.021		0107-11-212	
<b>XA</b> 4 cyl 88.9 x 101.6 2522cc	<b>MS-2000GP</b> (XA 67-80) (XB 72-77)	Main 1-5	69.825	74.092	2.102	28.60	0.055-0.114	11-11.7	S501-23-110	
	<b>TW-1075J</b> (XA 67-80) (XB 72-77)	T.W. No.3	(I.D.)78.5	(O.D.)95.0	2.305				0636-23-115	
	<b>CB-1075GP</b> (XA 67-80) (XB 72-77)	C.R. 1-4	57.125	60.846	1.842	28.68	0.030-0.076	5.5-6.2	0527-23-105	
	<b>PB-1075J</b> (XA 67-80) (XB 72-77)	P.B. 1-4	31.749	34.955	1.620	26.80	0.012-0.033		0636-11-213	
	<b>PB-2000J</b> (XA 67-80) (XB 72-77)	P.B. 1-4							S501-11-213	
	<b>XB</b> 4 cyl 92 x 101.6 2701cc									
<b>YA</b> 6 cyl 88.9 x 101.6 3783cc	<b>MS-2002GP</b> (69-ON)	Main 1-7	69.825	74.092	2.102	28.60	0.056-0.114	11-11.7	V101-23-110	
	<b>TW-1075J</b> (69-ON)	T.W. No.4	(I.D.)78.5	(O.D.)95.0	2.305				0636-23-115	
	<b>ZB</b> 6 cyl 92 x 101.6 4052cc	<b>CB-1097GP</b> (69-79)	C.R. 1-6	57.125	60.846	1.842	28.68	0.036-0.076	5.5-6.2	0784-23-105
		<b>CB-2002GP</b> (80-ON)	C.R. 1-6	57.125	60.846	1.838	28.60	0.036-0.076	5.5-6.2	V101-23-105
	<b>ZB</b> 6 cyl 88.9 x 101.6 3783cc	<b>PB-1097J</b> (69-ON)	P.B. 1-6	31.749	34.955	1.620	26.80	0.014-0.044		0636-11-213

# MITSUBISHI

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>4D30</b> 4 cyl 100 x 105 3298cc  <b>4D31</b> 4 cyl 100 x 105 3298cc  <b>4D32</b> 4 cyl 104 x 105 3567cc  <b>4D33</b> 4 cyl 104 x 105 3567cc	<b>MS-1807GP</b> (79-ON) (MS-1160GP)	Main 1-5	77.950	82.020	2.005	27.00	0.036-0.098	18.00	ME011530
	<b>TW-1055K</b> (79-ON)	T.W. No.5	(I.D.)85.5	(O.D.)103.5	2.450				ME020328
	<b>CB-1160GP</b> (79-83)	C.R. 1-4	59.965	64.019	2.002	33.00	0.035-0.098	10.5	ME012205
	<b>CB-1807GP</b> (83-ON)	C.R. 1-4	59.965	64.019	2.000	33.00	0.035-0.098	10.5	ME999250
	<b>SH-1160B</b> (79-83)	Cam 1	54.460	58.519	2.000	41.00	0.040-0.090		ME029225
		2	54.460	58.019	1.750	26.00	0.040-0.090		ME029027
		3	52.960	57.019	2.000	30.00	0.040-0.090		ME023432
	<b>SH-1807B</b> (83-ON)	Cam 1	54.460	58.519	2.000	4.100			ME011593
		2	54.460	58.019	1.750	21.00			ME011594
		3	52.960	57.019	2.000	21.00			
	<b>PB-1160J</b> (79-83)	P.B. 1-4	34.000	37.025	1.535	39.00	0.020-0.050		ME012257
	<b>PB-1807J</b> (83-ON)	P.B. 1-4	34.000	37.025	1.540	38.85	0.020-0.050		ME020449
									ME012249
									ME012255
	<b>4D55</b> 4 cyl 91.1 x 90 2346cc	<b>MS-1131A</b> (80-ON)	Main 1.2.4.5. Δ3	66.000 66.000	70.021 70.021	1.990 1.990	25.00 30.90	0.020-0.076 0.020-0.076	7.5-8.5
<b>CB-1131A</b> (80-ON)		C.R. 1-4	53.000	56.021	1.494	25.00	0.014-0.070	4.5-4.8	MD050365
<b>PB-1802J</b> (80-ON) (SF)		P.B. 1-4	29.000	32.025	1.800	31.70			MD050009
<b>4D65</b> 4 cyl 80.6 x 88 1795cc	<b>MS-1821A</b> (84-ON) (MS-1164A)	Main 1.2.4.5. Δ3	57.000 57.000	61.020 61.020	1.995 1.995	23.00 28.90	0.020-0.082 0.020-0.082	5.0-5.5	MD071273
	<b>CB-1085A</b> (84-ON)	C.R. 1-4	45.000	48.015	1.498	23.50	0.014-0.063	3.2-3.5	MD071298
	<b>PB-1821J</b> (84-ON)	P.B. 1-4	25.000	28.025	1.500	28.25			MD060467

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>6D10</b> 6 cyl 105 x 115 5974cc	<b>MS-1145GP</b> (74-87)	Main 1-7	79.965	85.022	2.500	29.00	0.045-0.107	15-18	ME031525	
		T.W. No.7	(I.D.)89.2	(O.D.)109.0	2.450					
	<b>6D11</b> 6 cyl 105 x 130 6754cc	<b>CB-1820GP</b> (74-87)	C.R. 1-6	64.960	69.019	2.000	34.00	0.060-0.119	10-12	ME032518
			P.B.							
<b>6D14</b> 6 cyl 110 x 115 6557cc	<b>PB-1145J</b> (74-86)	1-6	38.000	41.025	1.530	42.00	0.020-0.050		ME032014	
<b>6D15</b> 6 cyl 113 x 115 6919cc										
<b>6D20</b> 6 cyl 125 x 140 10308cc	<b>MS-1162GP</b> (76-ON) (6D22 83-ON)	Main 1-7	99.920	106.022	3.000	31.00	0.080-0.158	38.00	ME052053	
<b>6D21</b> 6 cyl 125 x 140 10308cc	<b>TW-1072J</b> (76-80)	T.W. No.7	(I.D.)110.0	(O.D.)128.0	29.50				31109-07109	
		<b>TW-1147J</b> (80-ON)	T.W. No.7	(I.D.)108.0	(O.D.)139.0				31209-78101	
<b>6D22</b> 6 cyl 130 x 140 11149cc	<b>CB-1803GP</b> (76-ON) (6D22 83-ON)	C.R. 1-6	83.930	90.022	2.997	44.00	0.070-0.138	12.00	ME052069	
<b>4DR5</b> 4 cyl 92 x 100 2659cc	<b>M1-1115GP</b> (70-ON)	Main 1-5	69.955	74.020	2.000	28.00	0.045-0.085	10.-11	31409-10010	
		T.W. No.5	(I.D.)77.0	(O.D.)95.0	2.450				31309-08101	
	<b>4DR6T</b> 4 cyl	<b>TW-1115K</b> (70-ON)	C.R. 1-4	57.965	62.019	2.000	32.00	0.035-0.081	8.5-9.5	31619-02100
<b>SH-1078B</b> (70-ON)			Cam 1	54.460	57.019	1.245	36.00	0.040-0.119		31307-13101 31307-13301
		2	54.460	57.019	1.245	26.00	0.040-0.119			
		3	53.960	57.019	1.495	26.00	0.040-0.119			
<b>4DR7</b> 4 cyl	<b>PB-1078J</b> (70-86)	P.B. 1-4	28.000	31.025	1.530	36.00	0.020-0.051		31619-0070	

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>6DR5</b> 6 cyl 92 x 100 3988cc	<b>M1-1115GP</b> (70-ON)	Main 1-7	69.955	74.020	2.000	28.00	0.045-0.097	10-11	31409-10010
	<b>TW-1115K</b> (70-ON)	T.W. No.7	(I.D.)77.0	(O.D.)95.0	2.450				31309-08101
	<b>C1-1115GP</b> (70-ON)	C.R. 1-6	57.965	62.019	2.000	32.00	0.035-0.081	8.5-9.5	31619-02100
	<b>SH-1115B</b> (70-ON)	Cam	1	54.460	57.019	1.245	36.00	0.040-0.119	31307-13101 31307-13401
			2	54.460	57.019	1.245	26.00	0.040-0.119	
			3	53.960	57.019	1.495	26.00	0.040-0.119	
			4	52.960	57.019	1.995	26.00	0.040-0.119	
<b>PB-1115J</b> (70-86)	P.B. 1-6	28.000	31.025	1.530	36.00	0.020-0.051		31619-0070	
<b>G11B</b> 4 cyl 69.5 x 82 1244cc	<b>MS-1818A</b> (77-ON) (MS-1169A)	Main 1.2.4.5. Δ3	48.000	52.020	1.990	19.00	0.020-0.074	5.0-5.5	MD030573 MD030126
			48.000	52.020	1.990	23.90	0.020-0.074	5.0-5.5	
<b>G12B</b> 4 cyl 74 x 82 1410cc	<b>CB-1169A</b> (77-85)	C.R. 1-4	42.000	45.020	1.493	17.50	0.014-0.068	3.2-3.5	MD030516
<b>G13B</b> 4 cyl 71 x 82 1298cc	<b>CB-1825A</b> (85-ON)	C.R. 1-4	42.000	45.020	1.493	15.50			MD143090
<b>G15B</b> 4 cyl 75.5 x 82 1468cc									
<b>4G11</b> 4 cyl 69.5 x 82 1244cc									
<b>4G12</b> 4 cyl 74 x 82 1410cc									

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>G31B</b> 4 cyl 74.5 x 86 1499cc	<b>MS-1821A</b>	Main							MD002273
<b>4G37</b> 4 cyl 80.6 x 86 1755cc	(70-88) (MS-1164A) (MS-1085GP)	1.2.4.5. Δ3	57.000 57	61.020 61.02	1.995 1.995	23.00 28.9	0.020-0.082 0.020-0.082	5.0-5.5 5.0-5.5	MD002343 MD006904 MD040682
<b>G32B</b> 4 cyl 76.9 x 86 1597cc	<b>CB-1085A</b> (70-88)	C.R. 1-4	45.000	48.015	1.498	23.50	0.014-0.063	3.2-3.5	MD002813 MD002843 MD040704
<b>G33B</b> 4 cyl 73 x 86 1439cc	<b>BB-1085A</b> (4G32/G32B/4G35)	B.B. 1 2	38.975 35.976	42.025 39.025	1.505 1.495	19.00 16.00	0.021-0.076 0.043-0.098		
<b>G37B</b> 4 cyl 60.6 x 88 1755cc	<b>BB-1164A</b> (G62B/G63B/4G63)	B.B. 1 2	41.975 40.967	45.025 44.025	1.505 1.495	19.00 21.00	0.025-0.080 0.025-0.080		
<b>G62B</b> 4 cyl 80.6 x 88 1795cc	<b>BB-1811A</b>	B.B. 1 2 3	41.975 40.967 40.967	45.025 44.025 44.025	1.505 1.495 1.495	19.00 21.00 21.00	0.025-0.080 0.025-0.080 0.025-0.080		
<b>G63B</b> 4 cyl 85 x 88 1997cc									
<b>4G30</b> 4 cyl 73 x 77 1289cc									
<b>4G31</b> 4 cyl 74.5 x 86 1499cc									
<b>4G32</b> 4 cyl 76.9 x 86 1597cc									
<b>4G33</b> 4 cyl 73 x 86 1439cc									
<b>4G35</b> 4 cyl 79 x 86 1686cc									
<b>4G36</b> 4 cyl 73 x 74 1238cc									
<b>4G63</b> 4 cyl 85 x 88 1997cc									

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number		
			Shaft Dia	Housing Bore	Wall Thickness						
<b>4G41</b> 4 cyl 76.5 x 75 1378cc	<b>MS-1024GP</b> (71-79) <b>TW-1024B</b> (71-79)	Main 1-3	63.993	68.021	1.993	25.00	0.021-0.070	5.0-5.5	MD0101780		
		T.W. No.1	(I.D.)34.0	(O.D.)41.5	3.585						
<b>4G42</b> 4 cyl 71 x 75 1187cc	<b>CB-1025GP</b> (71-79) <b>SH-1024B</b> (71-79)  <b>PB-1024J</b> (71-79)	C.R. 1-4	52.000	55.021	1.493	22.00	0.014-0.063	3.0-3.8	MD010589		
		Cam 1	44.990	48.025	1.492					19.50	0.040-0.090
		2	43.990	47.025	1.492					13.00	0.040-0.090
		3	42.990	46.025	1.492					13.00	0.040-0.090
		4	41.990	45.025	1.492					19.50	0.040-0.090
		P.B. 1-4	19.000	21.021	1.030					26.70	0.006-0.020
<b>G51B</b> 4 cyl 81 x 90 1855cc <b>4G51</b> 4 cyl 81 x 90 1855cc <b>G52B</b> 4 cyl 84 x 90 1995cc <b>4G52</b> 4 cyl 84 x 90 1995cc <b>G54B</b> 4 cyl 91.1 x 98 2555cc <b>4G54</b> 4 cyl 91.9 x 98 2555cc	<b>MS-1131GP</b> (73-78)  <b>MS-1819A</b> (G52B/G52B/4G52) (78-ON) <b>CB-1131GP</b> (73-ON)  <b>BB-1131A</b> (73-78)	Main 1.2.4.5.	66.000	70.021	1.990	25.00	0.020-0.076	7.5-8.5	MD020381		
		Δ3	66.000	70.021	1.990					30.95	0.020-0.076
		Main	1.2.4.5.	60.000	64.02	1.990	25.00	0.020-0.081	7.5-8.5	MD026440	
		Δ3	60.000	64.02	1.990	30.90					0.020-0.081
		C.R. 1-4	53.000	56.021	1.494	25.00	0.014-0.070	4.5-4.8	MD024856 MD026430		
		B.B. 2	43.000	46.000	1.480	20.00					
		1	23.000	26.000	1.510	18.00					
		<b>6G71</b> V6 74.7 x 76 1998cc <b>6G72</b> v6 91.1 X 76 2972CC	<b>MS-1822GP</b> (86-ON) <b>TW-1822GP</b> (86-ON)  <b>CB-1822A</b> (86-92) (6G72) <b>CB-1823A</b> (86-ON) (6G71)	Main 1-4	59.884	64.020	1.991	18.00	0.024-0.078	9.0-10.0	MD105269
				T.W.	(I.D.)66.25	(O.D.)77.70	1.970				
				C.R. 1-6	49.975	53.020	1.502	15.50	0.015-0.065	5.0-5.3	MD105277
C.B. 1-6	45.000			48.000	1.492	15.50					

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>A12</b> 4 cyl 73 x 70 1171cc	<b>MS-1087GP</b>	Main							12207-M7201
		1.5	49.964	53.667	1.835	22.00	0.020-0.099	5.0-5.3	
		2.4	49.964	53.667	1.835	18.00	0.020-0.099		
	Δ3	49.964	53.667	1.835	26.95	0.020-0.099			
	<b>A14</b> 4 cyl 76 x 77 1397cc	<b>CB-1045GP</b> (66-81) <b>SH-1019B</b> (66-81)	C.R.						
1-4			44.974	48.011	1.508	19.50	0.030-0.072	3.2-3.8	
<b>A15</b> 4 cyl 76 x 82 1487cc		Cam							13002-H1020
		1	43.796	47.025	1.585	23.50	0.024-0.097		
		2	43.296	46.525	1.585	14.00	0.024-0.097		
		3	42.796	46.025	1.585	14.00	0.024-0.097		
		4	42.296	45.525	1.585	14.00	0.024-0.097		
		5	41.221	44.450	1.585	14.00	0.024-0.097		
<b>CA16</b> 4 cyl 78 x 83.6 1598cc	<b>MS-1173GP</b> (81-90)	Main						4.5-5.5	12207-D0200 12207-54A00
		1.2.4.5	52.964	56.667	1.835	22.00	0.030-0.092		
	Δ3	52.964	56.667	1.835	27.95	0.030-0.092			
<b>CA18</b> 4 cyl 83 x 83.6 1809cc	<b>MS-1217A</b> (90-ON)	Main						3.2-3.8	12207-57J00 12261-54A00
		1.2.4.5.	52.964	56.667	1.830	20.00	0.030-0.089		
	3	52.964	56.667	1.830	27.95	0.030-0.089			
	C.R.								
<b>CA20</b> 4 cyl 84.5 x 88 1973cc	<b>CB-1173GP</b> (81-90)	1-4	44.974	48.011	1.508	18.50	0.026-0.072		
		C.R.							
<b>CD17</b> 4 cyl 80 x 83.6 1680cc	<b>CB-1217A</b> (90-ON)	1-4	49.961	53.013	1.504	20.00	0.017-0.064		12111-22J00
		P.B.							
<b>CD20</b> 4 cyl 84.5 x 88 1973cc	<b>PB-1205J</b> (CA16/18/20 81-90)	1-4	20.000	23.000	1.535	20.80			12030-D4200
		P.B.							
<b>D11</b> 4 cyl 73 x 68 1138cc	<b>PB-1173J</b> (CD17 82-85)	1-4	24.000	28.000	2.030	24.20	0.025-0.044		12030-16A01
		P.B.							
	<b>D12</b> 4 cyl 73 x 71.6 1198cc	<b>PB-1217J</b> (CD20 90-ON)	1-4	25.000	28.000	1.530	24.70	0.025-0.044	
P.B.									
<b>D11</b> 4 cyl 73 x 68 1138cc	<b>MS-1045GP</b> (66-78)	Main						10.5-11.0	12263-B0801
		1.3	52.310	56.030	1.835	30.00	0.020-0.080		
	2	52.310	56.030	1.835	34.00	0.020-0.080			
<b>D12</b> 4 cyl 73 x 71.6 1198cc	<b>TW-1000B</b> (66-78)	T.W.						3.3-3.5	12280-K5100
		2	(I.D.)56.2	(O.D.)69.8	2.345				
	<b>CB-1036GP</b> (66-78)	C.R.						12111-D0801	
		1-4	43.970	47.016	1.508	25.00	0.020-0.066		

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>E13</b> 4 cyl 76 x 70 1270cc	<b>MS-1174GP</b> (81-ON)	Main							12207-01M00
		1.5	49.964	53.668	1.830	22.00	0.023-0.082	5.0-6.0	
		2.4	49.964	53.668	1.830	18.00	0.023-0.082		
		Δ3	49.964	53.668	1.830	26.95	0.023-0.082		
<b>E15</b> 4 cyl 76 x 82 1487cc	<b>CB-1174GP</b> (81-ON) <b>JB-1174B</b> (81-ON)	C.R.							12111-11M00 13165-01M00 13166-01M00
		1-4	39.974	43.013	1.503	17.00	0.030-0.089	3.2-3.8	
		J.B.							
		1	32.000	35.000	1.495	21.50	0.027-0.110		
		2	28.600	31.600	1.495	16.00	0.027-0.110		
<b>FJ20</b> 4 cyl 89 x 80 1990cc	<b>MS-1176GP</b> (81-86)	Main							12207-R2000
		1.5	54.995	58.658	1.835	26.00	0.036-0.082	8.5-10.0	
		2.4	54.995	58.658	1.835	24.00	0.036-0.082		
			Δ3	54.995	58.658	1.835	31.95	0.036-0.082	
		<b>CB-1044GP</b> (81-86) <b>PB-1176J</b> (81-86)	C.R.						12111-R2010 12030-R2000
	1-4		49.974	53.013	1.506	22.00	0.032-0.074	6.0-6.5	
P.B.									
		1-4	22.000	24.021	1.730	23.80	0.005-0.022		
<b>GA15E</b> 4 cyl 73.6 x 88 1497cc	<b>MS-1208A</b> (87-ON) <b>TW-1208A</b> (87-ON)	Main							12215-77A00 12215-55A00 12280-77A00
		1-5	49.964	53.668	1.830	17.00	0.020-0.094	5.0	
			T.W.	(I.D.)56.02	(O.D.)71.00	1.970			
		<b>CB-1208A</b> (87-ON) <b>PB-1208J</b> (87-ON)	C.R.						12111-77A00 12030-77A00 12030-53Y00
	1-4		39.974	43.013	1.508	17.00	0.010-0.062	1.5 + 35°	
	P.B.								
1-4	19.000		22.000	1.515	21.80				
<b>H20</b> 4 cyl 87.2 x 83 1982cc  <b>U20</b> 4 cyl 87.2 x 83 1982cc	<b>MS-1042GP</b> (67-82)	Main							12207-78400
		1.5	62.955	66.658	1.835	28.00	0.020-0.066	10.0-11.0	
		2.4	62.955	66.658	1.835	22.00	0.020-0.066		
			Δ3	62.955	66.658	1.835	33.95	0.020-0.066	
		<b>CB-1002GP</b> (67-82)	C.R.						12111-P5100 13002-71204
	1-4		51.974	55.013	1.506	24.00	0.020-0.061	4.9-6.1	
	Cam								
		<b>SH-1003B</b> (67-82)  <b>PB-1002J</b> (67-82)	1	45.440	48.666	1.585	24.00	0.020-0.090	12030-32200
	2		43.910	47.142	1.585	22.00	0.020-0.090		
	3		41.230	44.450	1.585	24.00	0.020-0.090		
P.B.									
		1-4	22.000	24.033	1.045	28.70	0.005-0.014		

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>J</b> 4 cyl 73 x 77.6 1299cc  <b>J13</b> 4 cyl 73 x 77.6 1299cc  <b>J15</b> 4 cyl 78 x 77.6 1483cc  <b>J16</b> 4 cyl 78 x 82 1567cc  <b>J18</b> 4 cyl	<b>MS-1091GP</b> (70-ON)  <b>TW-1000B</b> (70-ON)	Main						12231-01W00	
		1-3	50.825	54.521	1.835	28.00	0.023-0.068	10.5-11.0	12280-B5225
		<b>CB-1007GP</b> (70-85)  <b>CB-1204GP</b> (J18 80-ON)	T.W.						
	2		(I.D.)56.2	(O.D.)69.8	2.345				
		<b>SH-1006B</b> (70-ON)	C.R.						12111-16700
	1-4		47.653	51.346	1.835	22.00	0.023-0.071	3.0-3.5	12111-24W00
		<b>SH-1006B</b> (70-ON)	C.R.						
	1-4		47.635	50.673	1.500	20.00	0.026-0.077	3.0-3.5	
	Cam								13002-B5000
		<b>SH-1006B</b> (70-ON)	1	45.440	48.666	1.585	37.30	0.031-0.106	
	2		43.910	47.142	1.585	22.00	0.031-0.106		
	3		41.230	44.450	1.585	20.60	0.031-0.106		
<b>KA-24</b> 4 cyl 89 x 96 2388cc	<b>MS-1209GP</b> (88-ON)	Main						12215-2340F00	
		1.2.4.5	59.975	63.672	1.835	19.00	0.013-0.097	12247-5540F00	
		<b>CB-1209GP</b> (88-ON)	Δ3	59.975	63.72	1.835	26.95	0.013-0.097	
	C.R.								12111-40F00
		<b>PB-1209J</b> (88-ON)	1-4	49.974	53.013	1.508	20.00	0.010-0.062	12030-40F00
	P.B.								
<b>L13</b> 4 cyl 83 x 59.9 1296cc  <b>L14</b> 4 cyl 83 x 66 1428cc  <b>Z/L16</b> 4 cyl 83 x 73.7 1595cc  <b>Z/L18</b> 4 cyl 85 x 78 1770cc	<b>MS-1043GP</b> (L13/14/16/18 67-82) (Z16/18 78-79)	Main						12207-23001	
		1	54.955	58.658	1.835	26.00	0.020-0.093	4.5-5.5	
		2.4	54.955	58.658	1.835	24.00	0.020-0.093		
		Δ3	54.955	58.658	1.835	31.95	0.020-0.093		
		5	54.955	58.658	1.835	26.00	0.020-0.093		
		<b>CB-1044GP</b> (L13/14/16/18 67-82) (Z16/18 78-79)	C.R.						12111-73400
	1-4		49.974	53.013	1.506	22.00	0.024-0.070	L14.16(3.2-3.8) L18 (3.7-4.0)	

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>MA10</b> 4 cyl 66 x 68 987cc	<b>MS-1202A</b> (82-ON)	Main 1-5	44.971	49.016	2.008	17.00	0.021-0.061	4.7-5.3	12215-01B10
	<b>TW-1202A</b> (82-ON)	T.W. 4	(I.D.)51.0	(O.D.)60.0	1.970				12280-01B00
	<b>CB-1202A</b> (82-ON)	C.R. 1-4	39.974	43.013	1.503	15.00	0.026-0.060	3.0-3.5	12111-01B10
<b>L20</b> 6 cyl 78 x 69.7 1998cc	<b>MS-1047GP</b> (66-ON)	Main 1.7	54.955	58.658	1.835	26.00	0.020-0.093	7.0-8.0	12207-73400
		2.3.5.6	54.955	58.658	1.835	24.00	0.020-0.093		
		Δ4	54.955	58.658	1.835	31.95	0.020-0.093		
<b>L24</b> 6 cyl 80 x 73.7 2393cc	<b>CB-1048GP</b> (66-81)	C.R. 1-6	49.974	53.013	1.506	22.00	0.024-0.070	3.2-3.8	12111-73400
<b>L26</b> 6 cyl 83 x 79 2526cc	<b>CB-1177GP</b> (L20 81-ON)	C.R. 1-6	49.974	48.011	1.508	18.50	0.024-0.070	3.2-3.8	12111-D0200
<b>L28</b> 6 cyl 86 x 79 2753cc									
<b>LD28</b> 6 cyl 84.5 x 83 2792cc									
<b>L20B</b> 4 cyl 85 x 86 1952cc <b>LD20-2 *</b> <b>LD20</b> 4 cyl 85 x 86 1952cc <b>LD20-T</b> 4 cyl 85 x 86 1952cc <b>Z20</b> 4 cyl 85 x 86 1952cc <b>Z24</b> 4 cyl 89 x 96 2389cc	<b>MS-1183GP</b> (74-83)	Main 1	59.955	63.658	1.835	26.00	0.020-0.066	7.0-8.5	12207-U6001
	<b>MS-1218GP</b> (83-ON)	2.4	59.955	63.658	1.835	24.00	0.020-0.066		12207-05E00
	<b>*MS-1220A</b>	Δ3	59.955	63.658	1.835	31.95	0.020-0.066		
		5	59.955	63.658	1.835	26.00	0.020-0.066		
	<b>CB-1044GP</b> (80-94)	C.R. 1-4	49.974	53.013	1.506	22.00	0.024-0.070	4.5-5.5	12111-73400
<b>PB-1183J</b> (LD20T ONLY)	P.B. 1-4	26.000	29.000	1.530	26.70	0.025-0.044		12030-W3400	
<b>PB-1189J</b> (LD20 ONLY)	P.B. 1-4	25.000	28.000	1.530	26.70	0.025-0.044		12030-V0700	

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>P</b> 6 cyl 85.7 x 114.3 3956cc  <b>PF</b> 6 cyl 85.7 x 114.3 3956cc  <b>P40</b> 6 cyl 85.7 x 114.3 3956cc	<b>MS-1001GP</b> (60-79)	Main							12207-58010           12207-C6001           12207-58010  13002-58000
		Δ1	68.229	73.025	2.371	43.63	0.030-0.107	9.7-11.8	
		2.3.5.6	69.300	73.025	1.835	26.00	0.030-0.107		
	4	69.300	73.025	1.835	41.00	0.030-0.107			
	<b>MS-1172GP</b> (79-ON)	7	69.300	73.025	1.835	49.00	0.030-0.107		
		Main							
	<b>CB-1001GP</b> (60-ON)  <b>SH-1002B</b> (60-ON)	Δ1	69.300	73.025	1.835	40.53	0.030-0.106	10.0-12.0	
		2.3.5.6	69.300	73.025	1.835	26.00	0.030-0.106		
		4	69.300	73.025	1.835	41.00	0.030-0.106		
		7	69.300	73.025	1.835	49.00	0.030-0.106		
C.R.									
1-6		57.150	60.199	1.508	26.00	0.014-0.078	4.9-6.2		
Cam									
1		49.149	52.476	1.646	29.35	0.012-0.102			
2	48.945	52.273	1.646	19.05	0.012-0.102				
3	48.661	51.968	1.646	19.05	0.012-0.102				
4	48.336	51.664	1.646	31.75	0.012-0.102				
<b>RB20</b> 6 cyl 78 x 69.7 1998cc	<b>MS-1203GP</b> (RB20/24/25/30/ RD28 84-ON)	Main						4.7-5.3	
		1.2.3	54.975	58.658	1.83	19.00	0.036-0.063		
		Δ4	54.975	58.658	1.83	26.90	0.036-0.063		
<b>RB24</b> 6 cyl	<b>MS-1216GP</b> (RB26 89-ON)	Main						12207-12U00	
		1-7	54.975	58.658	1.825	20.00	0.038-0.069		
<b>RB25</b> 6 cyl 86 x 71.1 2498cc	<b>CB-1203GP</b> (RB20 84-89)  <b>CB-1206GP</b> (RB30 86-ON)  <b>CB-1207A</b> (RD28 83-ON)	Δ4	54.975	58.658	1.825	27.00	0.038-0.069		
		C.R.							
		1-6	41.975	45.013	1.506	16.00	0.014-0.066	1.4-1.6	
		C.R.							
		1-6	49.976	53.013	1.506	17.00	0.014-0.066	3.9-4.5	
<b>RB26</b> 6 cyl 86 x 73.7 2568cc	<b>CB-1215GP</b> (RB24 89-91)  <b>CB-1216GP</b> (RB25/26 89-ON)	C.R.							
		1-6	44.974	48.013	1.508	17.00	0.010-0.062	1) 1.4-1.6	
		C.R.							
1-6	51.013	47.974	1.501	17.00	0.042-0.062	2) 3.8-4.6			
<b>RB30</b> 6 cyl 86 x 85 2962cc	<b>PB-1203J</b> (RB20 84-89)  <b>PB-1206J</b> (RB24/25/26/30 83-96)	P.B.						12030-77A00	
		1-6	19.000	22.000	1.515	21.80			
		P.B.							
1-6	21.004	24.000	1.530	21.80	0.025-0.044		12030-58S00 12030-53Y00		
<b>RD28</b> 6 cyl 85 x 83 2825cc	<b>PB-1207J</b> (RD28 83-ON)	P.B.							
		1-6	24.994	38.000	1.525	24.47			

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>SR18</b> 4 cyl 1838cc <b>SR20</b> 4 cyl 1998cc	<b>MS-1213GP</b>	Main	54.980	58.968	1.990	19.00	0.020-0.054	3.6+45°	12207-60J00	
	<b>TW-1213GP</b>	1-5							12280-60J00	
	<b>CB-1213GP</b>	T.W.	(I.D.)61.75	(O.D.)83.50	1.950				12111-60J00	
		C.R.	47.974	51.013	1.510	17.00	0.042-0.062	1.5+60°		
		1-4								
<b>VG20</b> V6 78 x 69.7 1998cc	<b>MS-1200GP</b>	Main	52.975	56.658	1.830	22.50	0.028-0.099	9.2-10.2	12215-V5325	
	(83-ON)	1							19.00	0.028-0.099
		2.3							28.80	0.028-0.099
		Δ4							15.00	0.014-0.060
	<b>CB-1200GP</b>	C.R.	44.974	48.013	1.508	15.00	0.014-0.060	3.1-3.7	12111-V5001	
	(83-ON)	1-6								
<b>VG30/D</b> V6 87 x 83 2960cc	<b>MS-1211GP</b>	Main	62.975	66.672	1.830	22.50	0.010-0.099	9.2-10.2	12215-02P25	
	(VG30 83 -ON)	1							19.00	0.010-0.099
		2.3							28.80	0.010-0.099
			Δ4	49.974	53.013	1.508	17.00	0.014-0.048	4.5-5.5	12111-02P00
		<b>CB-1210A</b>	C.R.							12111-30P60
		(VG30 83-ON)	1-6	49.974	53.013	1.508	17.00	0.010-0.062	2.5+75°	12030-21V00
		<b>CB-1211GP</b>	C.R.							12030-F6510
		(VG30D 86-ON)	1-6							12030-30P00
		<b>PB-1210J</b>	P.B.	49.974	53.013	1.508	17.00	0.010-0.062	2.5+75°	12030-21V00
		(VG30 83-ON)	1-6							
	<b>PB-1211J</b>	P.B.	49.974	53.013	1.508	17.00	0.010-0.062	2.5+75°	12030-F6510	
	(VG30D 86-ON)	1-6								
<b>VH41</b> V8 93 x 76 4130cc <b>VH45</b> V8 93 x 82.7 4494cc	<b>MS-1214GP</b>	Main	63.964	68.968	2.496	20.00	0.012-0.062		12207-60U00	
	(89-ON)								22.30	0.012-0.062
									21.30	0.012-0.062
		<b>TW-1214A</b>	T.W.	(I.D.)22.45	(O.D.)26.55	1.950				12280-60U00
		<b>CB-1214GP</b>	C.R.	51.974	55.013	1.509	18.20	0.008-0.065		12111-60U00
		(89-ON)	L1-4							18.20
	<b>PB-1214J</b>	P.B.	51.974	55.013	1.509	18.20	0.008-0.065		12030-60U01	
	(89-ON)	R1-4								
<b>BD2</b> 4 cyl 96 x 102 2953cc <b>BD25</b> 4 cyl 96 x 102 2953cc  <b>BD30</b> 4 cyl 96 x 102 2953cc	<b>MS-1190GP</b>	Main	70.920	75.000	2.013	26.00	0.035-0.090	17.0-18.0	12207-54T10	
	(89-91)	1-5								
	<b>TW-1028GP</b>	T.W.	(I.D.)78.6	(O.D.)93.8	2.325					12280-37525
	(89-91)									
	<b>CB-1194GP</b>	C.R.	56.920	60.000	1.513					12111-54T10
	(89-91)	1-4								
	<b>SH-1190B</b>	Cam	1	50.740	53.830	1.520	20.50	0.020-0.109		13002-43G00
	(89-91)		2	50.540	53.630	1.520	22.00	0.020-0.109		
			3	50.340	53.430	1.520	22.00	0.020-0.109		
			4	50.140	53.230	1.520	22.00	0.020-0.109		
			5	49.940	53.030	1.520	22.00	0.020-0.109		
	<b>PB-1194J</b>	P.B.	30.000	33.000	1.530	33.00			12030-31N00	
	(89-91)	1-4								

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>ED30</b> 4 cyl 98 x 98 2956cc <b>ED33</b> 4 cyl 100 x 105 3298cc <b>FD35</b> 4 cyl 100 x 105 3298cc	<b>MS-1180GP</b> (73-ON) <b>TW-1122J</b> (73-ON)	Main 1-5	75.940	80.000	1.997	28.00	0.050-0.116	17.0-17.5	12207-J2000	
		T.W. 4	(I.D.)86.0	(O.D.)101.8	3.000				12280-J2000 12280-Z5025	
	<b>CB-1122GP</b> (73-82) <b>CB-2801GP</b> (83-ON)	C.R. 1-4	59.945	64.000	2.000	34.00	0.039-0.105	11.5-12.0	12111-J2000	
		C.R. 1-4	61.945	66.000	1.998				12111-01T00 12117-Z5500	
	<b>SH-1122B</b> (73-ON)  <b>PB-1122J</b> (73-82) <b>PB-1180J</b> (83-ON)	Cam 1	57.340	60.400	1.515	28.00	0.015-0.105	11.5-12.0	13202-J2000	
		2	57.140	60.200	1.515					
		3	56.940	60.000	1.515					
		P.B. 1-4	32.000	36.000	2.030	35.00	0.025-0.041	12030-J2000		
		P.B. 1-4	34.000	38.000	2.020			12030-Z5000		
		<b>ED6</b> 6 cyl 100 x 120 5654cc <b>FD6</b> 6 cyl 100 x 120 5654cc	<b>MS-1135GP</b> (75-ON) <b>TW-1122J</b> (75-ON)	Main 1-7	75.940	80.000	1.995	26.00	0.050-0.116	17.0-17.5
T.W. 6	(I.D.)86.0			(O.D.)101.8	3.000	12280-Z5025				
<b>CB-2802GP</b> (75-ON) <b>SH-1135B</b> (75-ON)	C.R. 1-6		61.945	66.000	1.998	32.00	0.039-0.105	11.5-12.0	12111-O1T00 12117-Z5500	
	Cam 1		57.340	60.400	1.515				26.00	0.015-0.105
2	57.140		60.200	1.515						
3	56.940		60.000	1.515						
<b>PB-1135J</b> (75-ON)	P.B. 1-6		56.740	59.800	1.515	26.00	0.015-0.105	12030-Z5000		
			34.000	38.000	2.020				0.030-0.105	
<b>FE6</b> 6 cyl 108 x 126 6925cc  <b>FE6-T</b> 6 cyl 108 x 126 6925cc	<b>MS-2800GP</b> (84-ON) <b>TW-2800J</b> (84-ON)		Main 1-7	77.950	83.000	2.500	27.00	0.030-0.090		12213-Z5500
			T.W.	(I..D)89.25	(O.D.)103.8	2.970				12280-Z5501
	<b>CB-2800GP</b> (84-ON) <b>SH-1135B</b> (84-ON)	C.R. 1-6	64.945	69.000	2.000	32.00	0.035-0.090		12117-Z5561	
		Cam 1	57.340	60.400	1.515				26.00	0.015-0.105
	2	57.140	60.200	1.515						
	3	56.940	60.000	1.515						
	<b>PB-1083J</b> (84-ON)	P.B. 1-6	56.740	59.800	1.515	26.00	0.015-0.105	12030-95000		
			36.000	40.000	2.020				0.025-0.040	

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>ND6</b> 6 cyl 110 x 120 6842cc	<b>MS-1193GP</b> (69-ON)	Main								
		1	89.894	96.000	3.018	28.00	0.040-0.126	24-24.8	12212-95000	
		2.3	89.894	96.000	3.018	28.00	0.040-0.126		12213-95025	
		4	89.894	96.000	3.018	43.00	0.040-0.126			
		5	89.894	96.000	3.018	28.00	0.040-0.126			
<b>NE6</b> 6 cyl 110 x 130 7412cc	<b>TW-1083K</b> (67-ON)	T.W.								
		7	(I.D.)102.0	(O.D.)117.8	3.010				12280-95025	
<b>ND60</b> 6 cyl 110 x 120 6842cc	<b>CB-1083GP</b> (69-ON)	C.R.								
		1-6	69.910	74.000	2.015	35.00	0.041-0.112	18.0-18.5	12117-95001	
	<b>SH-1083B</b> (69-ON)	Cam								
		1	57.960	62.030	2.010	31.00	0.020-0.109		13003-95025	
		2	57.760	61.830	2.010	28.00	0.020-0.109			
		3	57.560	61.630	2.010	28.00	0.020-0.109			
		4	57.360	61.430	2.010	43.00	0.020-0.109			
		5	57.160	61.230	2.010	28.00	0.020-0.109			
		6	56.960	61.030	2.010	28.00	0.020-0.109			
	<b>PB-1083J</b> (69-ON)	P.B.								
1-6		36.000	40.000	2.020	39.00	0.025-0.040		12030-95000		
<b>PD6</b> 6 cyl 125 x 140 10308cc	<b>MS-1084GP</b> (69-ON)	Main								
		1	99.894	106.000	3.018	35.00	0.040-0.126	2.40-24.8	12212-96000	
		2-3.5-7	99.894	106.000	3.018	35.00	0.040-0.126			
	<b>TW-1084K</b> (69-82)	T.W.								
		7	(I.D.)112.0	(O.D.)127.8	3.010	55.00	0.040-0.126		12280-96025	
	<b>TW-1188K</b> (83-ON)	T.W.								
		7	(I.D.)112.3	(O.D.)133.8	4.000				12280-96017	
	<b>PE6</b> 6 cyl 133 x 140 11670cc	<b>CB-1084GP</b> (69-ON)	C.R.							
			1-6	79.910	84.000	2.012	41.00	0.036-0.112	18.0-18.5	12117-96000
		<b>SH-1084B</b> (69-82)	Cam							
1			62.740	66.830	2.020	34.00	0.020-0.106		13003-96025	
2			62.540	66.630	2.020	28.00	0.020-0.106			
3			62.340	66.430	2.020	39.00	0.020-0.106			
4			62.140	66.230	2.020	28.00	0.020-0.106			
<b>SH-2804B</b> (83-ON)		Cam								
		1	61.940	66.030	2.020	31.00	0.020-0.106		13003-96017	
		2							13007-96018	
<b>PB-1084J</b> (69-ON)	P.B.									
	1-6	46.000	50.000	2.015	44.00	0.025-0.048		12030-96000		

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>RD8</b> V8 135 x 125 14313cc	<b>MS-1118GP</b> (RD8 72-83)	Main							
		1.2.3.4	109.894	116.000	3.018	29.00	0.040-0.126	24.0-24.8	12212-97725
	<b>MS-1186GP</b> (RD8 84-ON) (RE8 83-87)	Main							
		1.2.3.4	109.894	116.000	3.018	31.00	0.040-0.126	24.0-24.8	12212-97725
<b>RE8</b> V8 135 x 132 15115cc	<b>MS-1197GP</b> (RE8 87-ON) (RF8 86-ON)	Main							
		1-5	109.894	116.000	3.018	31.00	0.040-0.126	24.0-24.8	12213-97069
<b>RF8</b> V8 138 x 142 16991cc	<b>TW-1118K</b> (72-ON)	T.W.							
		4	(I.D.)122.3	(O.D.)149.8	4.035				12280-97025
	<b>CB-1118GP</b> (72-ON)	C.R.							
		1-4/L	84.910	89.000	2.015	39.20	0.045-0.112	18.0-18.5	12117-97008
	<b>SH-1118B</b> (72-87)	1-4/R	84.910	89.000	2.015	39.20	0.045-0.112		13003-97128
		Cam							
		1	65.740	69.830	2.020	43.00	0.020-0.110		
		2	65.940	70.030	2.020	25.00	0.020-0.110		
		3	66.140	70.230	2.020	25.00	0.020-0.110		
		4	66.340	70.430	2.020	25.00	0.020-0.110		
		5	66.540	70.630	2.020	47.50	0.020-0.110		
	<b>PB-1118J</b> (72-ON)	P.B.							
		1-8	46.000	50.000	2.020	49/35	0.030-0.050		12030-97000
<b>SD20</b> 4 cyl 83 x 92 1991cc	<b>MS-1028GP</b> (SD20/82 63-81)	Main							
		1-3	70.920	75.000	2.014	32.00	0.035-0.087	15.0-16.0	12207-37506
	<b>MS-1182GP</b> (SD20/22 81-83) (SD23/25 81-ON)	Main							
		1-5	70.920	75.000	2.015	26.00	0.035-0.087	15.0-16.0	12207-V1701
<b>SD22</b> 4 cyl 83 x 100 2164cc	<b>TW-1028GP</b> (63-ON)	T.W.							
		2	(I.D.)78.6	(O.D.)93.8	2.325				12280-37525
	<b>CB-1029GP</b> (63-ON)	C.R.							
		1-4	52.926	56.000	1.514	26.00	0.035-0.087	5.0-5.6	12117-37504
<b>SD23</b> 4 cyl 89 x 92 2289cc	<b>SH-1003B</b> (63-ON)	Cam							
		1	45.440	48.666	1.585	24.00	0.020-0.100		13002-37500
		2	43.910	47.142	1.585	22.00	0.020-0.100		
<b>SD25</b> 4 cyl 89 x 100 2488cc	<b>PB-1029J</b> (SD20/22 63-81)	P.B.							
		1-4	26.000	29.000	1.535	30.00	0.013-0.046		12030-37500
	<b>PB-1182J</b> (81-ON)	P.B.							
		1-4	26.000	29.000	1.535	32.00	0.013-0.046		12030-L2000

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>SD33</b> 6 cyl 83 x 100 3246cc	<b>MS-1058GP</b> (66-ON) <b>TW-1028GP</b> (66-ON) <b>CB-1058GP</b> (66-ON)	Main 1-4	70.920	75.000	2.014	32.00	0.035-0.087	15.0-16.0	12207-61507
		T.W. 3	(I.D.)78.6	(O.D.)93.8	2.325				12280-37525
		C.R. 1-6	52.926	56.000	1.514	26.00	0.035-0.087	5.0-5.5	12117-37504
	<b>SH-1004B</b> (66-79)	Cam 1	45.440	48.666	1.585	24.00	0.020-0.090		
		2.3	43.910	47.142	1.585	22.00	0.020-0.090		
		4	41.230	44.450	1.585	24.00	0.020-0.090		
		Cam 1	51.400	54.430	1.485	24.00	0.020-0.090		13002-90010
	<b>SH-1191B</b> (79-ON)	2	51.200	54.230	1.485	22.00	0.020-0.090		
		3	51.000	54.030	1.485	22.00	0.020-0.090		
		4	50.800	53.830	1.485	24.00	0.020-0.090		
	<b>PB-1058J</b> (66-ON)	P.B. 1-6	26.000	29.000	1.535	30.00	0.013-0.046		12030-37500
	<b>TB42</b> 6 cyl 96 x 96 4169cc	<b>MS-1199A</b> (87-ON)	Main 1-7	70.920	75.000	2.007	26.00	0.041-0.099	17-18
Δ6			70.920	75.000	2.007	31.90	0.041-0.099		12239-03J00
									12247-03J00
<b>CB-1199A</b> (87-ON)		C.R. 1-6	56.926	60.000	1.517	26.00	0.027-0.073	8.0-8.5	12255-03J00
									12111-03J00
<b>SH-1199B</b> (87-ON)		Cam 1	50.800	53.800	1.520	20.00	0.020-0.109		13002-03J00
		2	50.600	53.600	1.520	20.00	0.020-0.109		
		3	50.400	53.400	1.520	20.00	0.020-0.109		
		4	50.200	53.200	1.520	20.00	0.020-0.109		
		5	50.000	53.000	1.520	20.00	0.020-0.109		
		6	49.800	52.800	1.520	20.00	0.020-0.109		
		7	49.600	52.600	1.520	20.00	0.020-0.109		
<b>PB-1199J</b> (87-ON)		P.B. 1-6	23.000	26.000	1.525	25.50	0.020-0.040		12030-03J00

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>TD1</b> 4 cyl 89 x 92 2289cc	<b>MS-1190GP</b> (86-ON) <b>TW-1028GP</b> (86-ON)	Main	70.920	75.000	2.013	26.00	0.035-0.090	17.0-18.0	12207-43G01	
		1-5	(I.D.)78.6	(O.D.)93.8	2.325				12280-37525	
<b>TD23</b> 4 cyl 89 x 92 2289cc	<b>CB-1190GP</b> (TD25/27 86-ON) <b>CB-1029GP</b> (TD1,TD23 86-ON)	C.R.	56.926	60.000	1.513	26.00	0.030-0.080	8.0-8.5	12111-43G01	
		1-4	52.926	56.000	1.514				12111-02N01	
<b>TD25</b> 4 cyl 93 x 92 2494cc	<b>SH-1190B</b> (86-ON)	Cam							13002-43G00	
		1	50.740	53.830	1.520	20.50	0.020-0.109			
		2	50.540	53.630	1.520	22.00	0.020-0.109			
		3	50.340	53.430	1.520	22.00	0.020-0.109			
		4	50.140	53.230	1.520	22.00	0.020-0.109			
<b>TD27</b> 4 cyl 96 x 92 2663cc	<b>PB-1190J</b> (TD25/27 86-ON) <b>PB-1192J</b> (TD1,TD23 86-ON)	P.B.							12030-43G00	
		1-4	28.000	31.000	1.530	32.80	0.025-0.040		12030-02N00	
		1-4	26.000	29.000	1.530	32.80	0.020-0.045			
<b>TD3</b> 6 cyl 96 x 96 4169cc	<b>MS-1195GP</b> (87-ON) <b>TW-1028GP</b> (87-ON) <b>CB-1195GP</b> (87-ON)	Main	70.920	74.981	2.013	26.00	0.048-0.080	17.0-18.0	12207-06J10	
		1-7	(I.D.)78.0	(O.D.)93.8	2.325				12280-37525	
<b>TD42</b> 6 cyl 96 x 96 4169cc	<b>SH-1195B</b> (87-ON)  <b>PB-1195J</b> (87-ON)	C.R.	56.926	59.987	1.513	26.00	0.035-0.087		12111-43G01	
		1-6								
		Cam								
		1	50.740	53.800	1.520	20.50	0.020-0.109			
		2	50.540	53.600	1.520	22.00	0.020-0.109			
		3	50.340	53.400	1.520	22.00	0.020-0.109			
		4	50.140	53.200	1.520	22.00	0.020-0.109			
		5	49.940	53.000	1.520	22.00	0.020-0.109			
		6	49.740	52.800	1.520	22.00	0.020-0.109			
		7	49.540	52.600	1.520	22.00	0.020-0.109			
P.B.								12030-43G00		
1-6	28.000	31.000	1.530	32.80	0.025-0.045					

# SUBARU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>EA65</b> 4 cyl 83 x 60 1298cc	<b>MS-1184GP</b> (78-ON)	Main 1.3 Δ2	49.970	54.004	2.010	21.00	0.02-0.07	6: 4.5-5.5 8: 2.3-2.7	88265-8840
			49.982	54.004	2.010	25.96	0.02-0.07		
<b>EA71</b> 4 cyl 92 x 60 1595cc	<b>CB-1124GP</b> (78-ON)	C.R. 1-4	45.000	48.019	1.485	13.50	0.03-0.06	4.0-4.3	38291-4300
	<b>PB-2300J</b> (78-ON)	P.B. 1-4	21.000	23.000	1.040	19.40			
<b>EA81</b> 4 cyl	<b>MS-2300GP</b> (79-ON)	Main 1.3 Δ2	54.970	59.018	2.020	21.00	0.02-0.07	6: 4.5-5.5 8: 2.3-2.7	48543-7000
			54.970	59.018	2.020	25.96	0.02-0.07		
<b>EA82</b> 4 cyl 92 x 67 1781cc	<b>CB-1124GP</b> (79-85)	C.R. 1-4	45.000	48.019	1.485	13.50	0.03-0.06	10: 4.0-4.8 4.0-4.3	38291-4300
	<b>CB-2300GP</b> (85-ON)	C.R. 1-4	45.010	48.019	1.490	14.50	0.01-0.07	4.0-4.3	12108-AA090
	<b>PB-2300J</b> (79-ON)	P.B. 1-4	21.000	23.000	1.040	19.40			47336-7001
<b>EF10</b> 3 cyl 78 x 69.6 997cc	<b>MS-2301GP</b> (83-ON)	Main 1.3 Δ2	41.980	45.024	1.510	20.00	0.02-0.06	4.2-4.8	48265-5400
			41.980	45.024	1.510	24.92	0.02-0.06		
<b>EF12</b> 3 cyl 78 x 83 1169cc	<b>CB-2301GP</b> (EF10 83-ON)	C.R. 1-3	42.000	45.016	1.490	15.00	0.02-0.07	4.0-4.5	48291-5600
	<b>CB-2302GP</b> (EF12 84 ON)	C.R. 1-3	42.000	45.016	1.495	15.00	0.01-0.08	4.0-4.5	12111-KA00
<b>EK21</b> 2 cyl 66 x 52.4 358cc	<b>MS-1126GP</b> (73-ON)	Main 1.2 Δ3	41.960	45.012	1.510	20.00	0.02-0.06	4.2-4.8	38265-2100 48265-1000
			41.960	45.012	1.510	24.96	0.02-0.06		
<b>EK22</b> 2 cyl 74 x 57 490cc	<b>CB-2303GP</b> (73-ON)	C.R. 1-2	38.000	41.016	1.490	14.00	0.02-0.06	3.5-4.1	38291-2100 48291-5400
<b>EK23</b> 2 cyl 76 x 60 544cc									

# SUBARU

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>ER27</b> 6 cyl 92 x 67 2672cc	<b>MS-2304GP</b> (87-ON)	Main 1.2.4. Δ3	54.970	59.018	2.020	21.00	0.02-0.07	08:02.5 10:04.4	12211-AA000
			54.970	59.018	2.020	25.92	0.02-0.07		
	<b>CB-2304A</b> (87-ON)	C.R. 1-6	45.010	48.018	1.490	14.50	0.01-0.07	4.15	12108-AA000
	<b>PB-2304J</b> (87-ON)	P.B. 1-4	21.000	23.000	1.040	19.40			47336-7001
<b>EJ18</b> 4 cyl 87.3 x 75.6 1820cc	<b>MS-2305A</b>								12209-AA040
	<b>CB-2305A</b>								12108-AA210
<b>EJ20</b> 4 cyl 92.4 x 75 1994cc									
<b>EJ22</b> 96.9 x 75 2212cc									

# SUZUKI

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number				
			Shaft Dia	Housing Bore	Wall Thickness								
<b>F5A</b> 3 cyl 62 x 60 543cc	<b>MS-2402A</b> (81-ON)	Main 1-4	40.000	44.018	1.991	17.00	0.018-0.064	5.5-6.0	12300-78811				
	<b>TW-2402A</b> (81-ON)	T.W. No.3	(I.D.)47.0	(O.D.)63.0	2.520				12300-78830				
	<b>F5AT</b> 3 cyl 62 x 60 543cc	<b>CB-2404A</b> (F5A 81-ON)	C.R. 1-3	32.000	35.018				1.490	16.00	0.018-0.064	2.8-3.2	12181-78130
	<b>CB-2401A</b> (F5AT 84-ON)	C.R. 1-3	38.000	41.018	1.493				18.00	0.018-0.064	2.8-3.2	12181-78400	
	<b>PB-2401J</b> (81-ON)	P.B. 1-3	16.000	18.020	1.150				22.00			12165-73000	
<b>F5B</b> 3 cyl 62 x 60 543cc	<b>MS-2402A</b> (88-ON)	Main 1-4	40.000	44.018	1.991	17.00	0.018-0.064	5.5-6.0	12300-78811				
	<b>TW-2402A</b> (88-ON)	T.W. No.3	(I.D.) 47.0	(O.D.) 63.0	2.520				12300-78830				
<b>F8A</b> 4 cyl 62 x 66 797cc	<b>MS-1179A</b> (F8A 77-82) (F10A 82-ON)	Main 1-5	50.000	54.018	1.990	20.00	0.018-0.064	5.5-6.0	12300-73811				
	<b>TW-1179A</b> (F8A 77-82) (F10A 82-ON)	T.W. No.3	(I.D.) 57.0	(O.D.) 73.0	2.520				12300-73830				
	<b>F10A</b> 4 cyl 65.5 x 72 970cc	<b>CB-1179A</b> (F8A 77-82) (F10A 82-ON)	C.R. 1-4	38.000	41.018				1.493	18.00	0.018-0.064	2.8-3.2	12181-73001
	<b>PB-1179J</b> (F8A 77-82) (F10A 82-ON)	P.B. 1-4	16.000	18.020	1.150				22.00			12165-73000	
<b>G10</b> 3 cyl 74 x 77 993cc	<b>MS-2403A</b> (84-ON)	Main 1-4	45.000	49.018	2.006	18.00	0.020-0.068	5.0-5.7	12340-82000				
	<b>TW-2403A</b> (84-ON)	No.3	(I.D.) 52.0	(O.D.) 68.0	2.520				12340-82820				
	<b>CB-2403A</b> (84-ON)	C.R. 1-3	42.000	45.018	1.496				18.00	0.020-0.068	3.3-3.7	12100-82810	

# SUZUKI

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>G13</b> 4 cyl 74 x 77 1324cc	<b>MS-2404A</b> (85-ON)	Main 1-5	45.000	49.018	2.006	18.00	0.020-0.068	5.0-5.7	12300-82000
	<b>TW-2403A</b> (85-ON)	T.W. No.4	(I.D.) 52.0	(O.D.) 68.0	2.520				12300-82820
	<b>CB-2404A</b> (85-ON)	C.R. 1-4	42.000	45.018	1.496	18.00	0.020-0.068	3.3-3.7	12100-82810
<b>G15</b> 4 cyl 75 x 90 1590cc	<b>MS-2405GP</b>	Main 1-5	52.000	56.018	2.012	18.00	0.024-0.038		12340-60A10
	<b>TW-2405GP</b>	T.W. 4	(I.D.) 59.25	(O.D.) 75.0	2.520				12300-60820
	<b>CB-2405A</b>	C.R. 1-4	44.000	47.018	1.502	18.00	0.004-0.064		12100-60820
<b>Y64</b> 3 cyl 68.5 x 72 796cc  <b>F8B</b> 3 cyl 68.5 x 72 796cc	<b>MS-2401A</b> (81-ON)	Main 1-4	50.000	54.018	1.990	17.00	0.018-0.064	5.0-6.0	12300-78860
	<b>TW-1179A</b> (81-ON)	T.W. No.3	(I.D.) 57.0	(O.D.) 73.0	2.520				12300-73830
	<b>CB-2401A</b> (81-ON)	C.R. 1-3	38.000	41.018	1.493	18.00	0.018-0.064	2.8-3.2	12181-78400
	<b>PB-2401J</b> (81-ON)	P.B. 1-3	16.000	18.020	1.150	22.00			12165-73000

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>1A</b> 4 cyl 77.5 x 77 1452cc	<b>MS-1400A</b> (78-83)	Main 1-5	48.000	52.040	2.004	20.00	0.012-0.065	5.4-6.6	11701-15030
	<b>MS-1410GP</b> (83-ON)	Main 1-5	48.000	52.040	2.004	20.00	0.012-0.085	5.4-6.6	11701-16010
<b>2A</b> 4 cyl 76 x 71.4 1295cc	<b>TW-1400A</b> (78-ON)	T.W. NO.3	(I.D.)53.5	(O.D.)66.0	2.490				11011-15010
	<b>CB-1400GP</b> (78-83)	C.R. 1-4	40.000	43.020	1.490	17.00	0.020-0.067	3.5-4.5	13041-15010
<b>3A</b> 4 cyl 77.5 x 77 1452cc	<b>CB-1410GP</b> (83-ON)	C.R. 1-4	40.000	43.020	1.490	17.10	0.020-0.067	3.5-4.5	13041-15030
	<b>CB-1425GP</b> (4A-GZE 87-ON)	C.R. 1-4	42.000	45.024	1.490	17.00	0.020-0.085	4.2	13041-16070
<b>4A</b> 4 cyl 81 x 77 1587cc	<b>PB-1425J</b> (4A-GZE 87-ON)	P.B. 1-4							90999-73111
<b>5A</b> 4 cyl 78.7 x 77 1498cc									
<b>4 A-GZE</b> 4 cyl 81 x 77 1587cc									

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number		
			Shaft Dia	Housing Bore	Wall Thickness						
<b>B</b> 4 cyl 95 x 105 2977cc	<b>MS-1121A</b> (B,2B,3B 72-84)	Main 1.2.4.5. ΔNo.3	70.000	75.024	2.490	27.60	0.020-0.084	9.8-11.2	11702-56010		
			70.000	75.024	2.490	23.90	0.020-0.084				
<b>2B</b> 4 cyl 98 x 105 3168cc	<b>MS-1417A</b> (B,3B,11B,13B) (84-88)	Main 1-5	70.000	75.024	2.485	26.90	0.020-0.084	19-21	11702-56020		
<b>3B</b> 4 cyl 102 x 105 3431cc	<b>MS-1428A</b> (B 88-ON)	Main 1-5	70.000	75.024	2.485	26.90	0.020-0.084	19-21	11701-56030		
<b>3B</b> 4 cyl 102 x 105 3431cc	<b>MS-1429A</b> (3B,11B,13B) (88-ON)	Main	70.000	75.024	2.485	26.90	0.020-0.084		11701-56030		
			70.000	75.024	2.485	26.90	0.020-0.084				
<b>3B</b> 4 cyl 102 x 105 3431cc	<b>TW-1417A</b> (84-ON)	T.W. NO.3	(I.D.)76.25	(O.D.)90.5	2.475				11011-56010		
			<b>CB-1121A</b> (B,2B 72-84)	C.R. 1-4	59.000	62.020	1.490	30.00	0.020-0.080	6.5-7.5	13202-56010
			<b>CB-1401A</b> (3B,11B,13B/T) (80-88)	C.R. 1-4	61.000	64.020	1.485	30.00	0.020-0.080	8.5-9.5	13202-58010
<b>11B</b> 4 cyl 95 x 105 2977cc	<b>CB-1428A</b> (B 88-ON)	C.R. 1-4	59.000	62.025	1.485	30.00	0.020-0.080	8.5-9.5	13041-56030		
<b>13B</b> 4 cyl 102 x 105 3431cc	<b>CB-1429A</b> (3B,11,13B 88-ON)	C.R. 1-4	61.000	64.000	1.485	30.00	0.020-0.084	8.5-9.5	13041-56040		
<b>13B-T</b> 4 cyl 102 x 105 3431cc	<b>SH-1121B</b> (B,2B 74-80)	Cam No.1 No.2 No.3	47.175	51.060	1.915	23.70	0.025-0.111		11802-56011		
			46.975	51.060	2.015	19.80	0.025-0.111				
			46.775	51.060	2.115	23.70	0.025-0.111				
<b>13B-T</b> 4 cyl 102 x 105 3431cc	<b>SH-1401B</b> (B 80-84)	Cam No.1 No.2 No.3	47.175	51.060	1.915	23.70	0.025-0.111		11802-56011		
			46.975	51.060	2.015	19.80	0.025-0.111				
			46.775	51.060	2.115	23.70	0.025-0.111				
	<b>SH-1417B</b> (B,3B,11B,13B/T) (84-ON)	Cam No.1 No.2 No.3 No.4 No.5	No.1	53.475	56.530	1.510	20.00	0.025-0.066		11802-56020	
			No.2	53.225	56.280	1.510	20.00	0.025-0.066			
			No.3	52.975	56.030	1.510	20.00	0.025-0.066			
			No.4	52.725	56.030	1.635	20.00	0.025-0.066			
			No.5	52.475	56.280	1.885	20.00	0.025-0.066			
<b>PB-1428J</b> (B 72-ON)	P.B. 1-4		29.012	33.025	2.030	32.00	0.004-0.012		90999-73065		
<b>PB-1401J</b> (3B 80-84)	P.B. 1-4		32.010	36.030	2.030	32.00	0.004-0.012		90999-73088		
<b>PB-1417J</b> (3B,11B,13B 84-88)	P.B. 1-4		34.010	38.025	2.040	36.00	0.004-0.014		90999-73122		

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>1C</b> 4 cyl 83 x 85 1839cc	<b>MS-1408A</b> (82-85)	Main 1-5	57.000	61.024	1.983	22.00	0.034-0.070	9.8-11.2	11701-64010
	<b>MS-1421A</b> (85-ON)	Main 1-5	57.000	61.024	1.990	20.00	0.034-0.070	9.8-11.2	11701-64050
	<b>TW-1408A</b> (82-ON)	T.W. No.3	(I.D.)63.0	(O.D.)76.8	2.730				11011-64010
<b>2C</b> 4 cyl 86 x 85 1974cc	<b>CB-1408A</b> (82-85)	C.R. 1-4	50.500	53.524	1.482	23.70	0.036-0.070	6.0-7.0	13041-64010
	<b>CB-1421A</b> (85-ON)	C.R. 1-4	50.500	53.524	1.482	18.90	0.036-0.070	6.0-7.0	13041-64050
	<b>PB-1408J</b> (82-85)	P.B. 1-4	27.000	30.025	1.530	27.50	0.007-0.015		90999-73091
	<b>PB-1421J</b> (85-ON)	P.B. 1-4	27.000	30.021	1.530	(U) 20.00 (U) 28.00	0.004-0.014		90999-73102
<b>D</b> 6 cyl 100 x 125 5890cc <b>2D</b> 6 cyl 105 x 125 6494cc	<b>MS-1040GP</b> (64-ON)	Main 1-3/5-7 No.4	74.990 74.990	81.040 81.040	3.001 3.001	34.00 49.00	0.028-0.087 0.028-0.087	13.0-15.0	11702-77010
	<b>TW-1040B</b> (64-ON)	T.W. No.4	(I.D.)83.40	(O.D.)99.8	2.990				11011-76010
	<b>CB-1041GP</b> (64-ON)	C.R. 1-6	61.990	66.055	1.993	31.00	0.030-0.095	7.0-8.0	13202-77020
	<b>PB-1040J</b> (64-76)	P.B. 1-6	34.030	40.030	3.045	37.00	0.015-0.025		90999-70005
	<b>PB-1041J</b> (76-ON)	P.B. 1-6	34.030	38.030	2.035	37.00	0.015-0.025		90999-73080
<b>1E</b> 4 cyl 70.5 x 64 999cc <b>2E</b> 4 cyl 73 x 77.4 1295cc <b>3E</b> 4 cyl 73 x 87 1456cc	<b>MS-1415A</b> (84-86)	Main 1-5	47.000	51.036	2.000	16.00	0.018-0.06	4.6-7.0	11702-10010
	<b>MS-1424A</b> (86-ON)	Main 1-5	50.000	54.040	2.000	16.00	0.022-0.08		11701-11010
	<b>TW-1415A</b> (84-86)	T.W. No.3	(I.D.)52.65	(O.D.)64.5	2.475				11011-11020
	<b>TW-1424A</b> (86-ON)	T.W. No.3							11011-11010
	<b>CB-1415A</b> (84-86)	C.B. 1-4	40.000	43.021	1.499	15.00	0.016-0.072	3.7-4.3	13041-10021
	<b>CB-1424A</b> (86-ON)	C.R. 1-4	43.000	46.024	1.492	15.00	0.016-0.081	4.0	13041-11020

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>F</b> 6 cyl 90 x 101.6 3878cc	<b>MS-1007GP</b> (F 54-73)	Main							11702-60012
		No.1	67.000	72.035	2.485	32.00	0.020-0.084	13.0-15.0	
		No.2	68.500	73.535	2.485	30.00	0.020-0.084		
		ΔNo.3	70.000	75.035	2.485	36.00	0.020-0.084		
No.4	71.500	76.535	2.485	40.00	0.020-0.084				
<b>2F</b> 6 cyl 94 x 101.6 4230cc	<b>MS-1123A</b> (F 73-75) (2F 75-ON)	Main							11702-60013
		No.1	67.000	72.035	2.497	32.00	0.020-0.084	13.0-15.0	
		No.2	68.500	73.535	2.497	30.00	0.020-0.084		
		ΔNo.3	70.000	75.035	2.497	35.90	0.020-0.084		
No.4	71.500	76.535	2.497	40.00	0.020-0.084				
<b>3F</b> 6 cyl 94 x 95 3995cc	<b>MS-1413A</b> (3F 84-ON)	Main							11702-61010
		No.1	66.996	72.034	2.497	32.00	0.020-0.090	M12-bolt 11.75	
		No.2	68.496	73.534	2.497	30.00	0.020-0.090		
		No.3	69.996	75.034	2.497	28.00	0.020-0.090		
	No.4	71.496	76.534	2.497	40.00	0.020-0.090	M14-bolt 13.75		
	T.W.								
	<b>TW-1413A</b> (3F 84-ON)	No.3	(I.D.)78.25	(O.D.)91.0	2.480				11011-61010
	<b>CB-1123A</b> (F 54-75) (2F 75-ON)	C.R.							13202-60011
		1-6	54.000	56.820	1.392	33.00	0.020-0.070	4.8-7.6	
	<b>CB-1413GP</b> (3F 84-ON)	C.R.							13202-61010
1-6		53.000	56.018	1.505	22.00	0.020-0.070	6.0-6.5		
<b>SH-1123B</b> (54-ON)	Cam	No.1	47.975	52.035	2.010	29.00	0.025-0.120	11802-60011	
		No.2	46.475	50.350	2.010	24.00	0.025-0.120		
		No.3	44.975	49.030	2.010	24.00	0.025-0.120		
		No.4	43.475	47.530	2.010	25.00	0.025-0.120		
<b>PB-1413J</b> (3F 84-ON)	P.B.	1-6	22.019	24.021	1.045	28.80	0.005-0.011	90999-73072	
<b>1FZ</b> 6 cyl 100 x 95 4476cc	<b>MS-1438A</b> (90-ON)	Main						11701-66020	
		1-7	68.980	74.040	2.492	23.40			
	<b>TW-1438A</b> (90-ON)	T.W.							11011-66020
						2.490			
<b>CB-1438A</b> (90-ON)	C.R.	1-6	56.980	60.540	1.745	21.40		13041-66020	
<b>PB-1438J</b> (90-ON)	P.B.	1-6	26.000	28.030	1.025	28.00		90999-73135	

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>1G</b> 6 cyl 75 x 75 1988cc	<b>MS-1402A</b> (80-85)	Main 1-7	55.000	59.050	2.000	19.20	0.020-0.085	5.4-6.6	11701-70012	
	<b>MS-1420A</b> (85-ON)	Main 1	55.000	59.050	2.000	19.20	0.020-0.085	5.4-6.6	11071-88360	
		2-7	55.000	59.050	2.000	19.20	0.020-0.085			
	<b>TW-1402A</b> (80-ON)	T.W. No.4	(I.D.)61.0	(O.D.)73.0	1.990				11011-70010	
	<b>CB-1402GP</b> (80-85)	C.R. 1-6	42.000	45.024	1.498	18.90	0.016-0.063	4.0-5.0	13041-70010	
	<b>CB-1420GP</b> (85-)	C.R. 1-6	42.000	45.024	1.492	18.00	0.016-0.081	5.0	13041-88340	
	<b>CB-1433A</b> (86-ON)	C.R. 1-6	44.030	47.016	1.493	17.10			13041-70020	
	<b>PB-1402J</b> (85-ON)	P.B. 1-6	18.011	20.021	1.045	25.00	0.004-0.008		90999-73070	
	<b>H</b> 6 cyl 88 x 98 3576cc <b>2H</b> 6 cyl 91 x 102 3980cc <b>12H-T</b> 6 cyl 91 x 102 3980cc	<b>MS-1427A</b> (69-ON)	Main 1-3/5-7	70.000	74.022	1.990	24.50	0.030-0.068	10.0-11.0	11702-47012
			No.4	70.000	74.022	1.990	31.50	0.030-0.068		11071-68020
<b>TW-1063B</b> (69-87)		T.W. No.4	(I.D.)76.50	(O.D.)89.8	2.980				11011-46020	
<b>TW-1427A</b> (87-ON)		T.W. No.4	(I.D.)76.25	(O.D.)90.0	2.980				11011-68020	
<b>CB-1080A</b> (69-87)		C.R. 1-6	55.010	58.020	1.488	27.50	0.030-0.070	6.5-7.5	13202-47011	
<b>CB-1427A</b> (87-ON)		C.R. 1-6	55.000	58.020	1.486	25.50	0.030-0.070	9.0	13041-68050	
<b>SH-1063B</b> (69-75)		Cam No.1	47.180	51.019	1.900	24.00	0.025-0.106		11802-46010	
		No.2	46.980	51.019	2.000	20.00	0.025-0.106			
		No.3	46.780	51.019	2.100	20.00	0.025-0.106			
		No.4	46.580	51.019	2.200	24.00	0.025-0.106			
<b>SH-1080B</b> (76-82)		Cam No.1	47.175	51.025	1.900	24.00	0.025-0.106		11802-48010	
		No.2	46.975	51.025	2.000	20.00	0.025-0.106			
		No.3	46.775	51.025	2.100	20.00	0.025-0.106			
		No.4	46.575	51.025	2.200	24.00	0.025-0.106			
<b>SH-1403B</b> (82-ON)		Cam No.1	51.175	55.020	1.900	24.00	0.030-0.115		11802-68010	
		No.2	50.975	55.020	2.000	20.00	0.030-0.115			
		No.3	50.775	55.020	2.100	20.00	0.030-0.115			
		No.4	50.575	55.020	2.200	24.00	0.030-0.115			
<b>PB-1080J</b> (69-81)		P.B. 1-6	27.012	30.021	1.530	31.00	0.004-0.012		90999-73083	
<b>PB-1403J</b> (82-87)		P.B. 1-6	29.000	33.030	2.030	31.00	0.004-0.012		90999-73087	
<b>PB-1427J</b> (87-ON)		P.B. 1-6	32.000	36.000	2.040	31.00	0.004-0.012		90999-73108	

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>1HZ</b> 6 cyl 94 x 100 4163cc  <b>1HD-T</b> 6 cyl 94 x 100 4163cc	<b>MS-1436A</b> (88-ON) <b>TW-1436A</b> (88-ON)	Main 1-7	67.000	71.020	1.985	22.00		11701-17010		
		T.W.						11011-17010		
	<b>CB-1436A</b> (88-ON) <b>SH-1436B</b> (88-ON) <b>PB-1436J</b> (1HZ 88-ON)	C.R. 1-6	59.000	62.020	1.505	23.60		13041-17010		
		Cam 1-2	35.000	38.020	1.505	29.00		11801-17010		
		P.B. 1-6	29.000	32.000	1.530	27.00		90999-73126		
<b>J</b> 4 cyl 88 x 96 2336cc  <b>2J</b> 4 cyl 88 x 102 2481cc	<b>MS-1137GP</b> (65-ON)  <b>TW-1063B</b> (65-ON)	Main No.1245	70.000	74.022	1.990	24.50	0.022-0.082	10.0-11.0	11702-48012	
		No.3	70.000	74.022	1.990	31.40	0.022-0.082		11011-46020	
		T.W. No.3	(I.D.)76.5	(O.D.)89.8	29.800					
	<b>CB-1063A</b> (65-ON) <b>SH-1063B</b> (65-72)	C.R. 1-4	55.010	58.020	1.488	27.50	0.030-0.070	6.5-7.5	13202-48010	
		Cam No.1	47.180	51.019	1.900	24.00	0.025-0.106		11802-46010	
		No.2	46.980	51.019	2.000	20.00	0.025-0.106			
		No.3	46.780	51.019	2.100	20.00	0.025-0.106			
		No.4	46.580	51.019	2.200	24.00	0.025-0.106			
		<b>SH-1080B</b> (72-ON)	Cam No.1	47.175	51.025	1.900	24.00	0.025-0.106		11802-48010
			No.2	46.975	51.025	2.000	20.00	0.025-0.106		
			No.3	46.775	51.025	2.100	20.00	0.025-0.106		
	No.4		46.575	51.025	2.200	24.00	0.025-0.106			
	<b>PB-1063J</b> (65-ON)	P.B. 1-4	27.012	30.021	1.530	31.00	0.004-0.012		90999-73083	
<b>1JZ</b> 6 cyl  <b>2JZ</b> 6 cyl	<b>MS-1434A</b>	Main 1	62.000	66.000	2.010	23.00				
			62.000	66.000	2.010	20.00				
	<b>TW-1434A</b>  <b>CB-1434GP</b>	T.W.								
		C.R. 1-6	52.000	55.000	2.520	19.30				

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>K</b> 4 cyl 75 x 61 1077cc  <b>2K</b> 4 cyl 72 x 61 993cc  <b>3K</b> 4 cyl 75 x 66 1166cc  <b>4K</b> 4 cyl 75 x 73 1290cc  <b>5K</b> 4 cyl 80.5 x 73 1486cc	<b>MS-1056GP</b> (66-82)  <b>MS-1416A</b> (83-ON)	Main 1-5	50.000	54.028	1.994	21.80	0.016-0.090	5.4-6.6	11702-22020
		Main 1-5	50.000	54.028	2.000	21.00	0.016-0.090	5.4-6.6	11701-13011
	<b>TW-1056B</b> (66-ON)  <b>CB-1056GP</b> (66-82)	T.W. No.3	(I.D.)55.30	(O.D.)67.8	2.480				11011-22010
		C.R. 1-4	42.000	45.024	1.496	18.80	0.023-0.082	4.0-5.0	13202-22010
	<b>CB-1416A</b> (83-ON)  <b>SH-1056B</b> (66-ON)	C.R. 1-4	42.000	45.024	1.500	19.00	0.023-0.082	4.0-5.0	13041-13040
		Cam No.1	43.225	48.025	2.380	17.90	0.025-0.106		11802-22010
	<b>PB-1056J</b> (66-ON)	No.2	42.975	47.525	2.255	17.90	0.025-0.106		
		No.3	42.725	47.025	2.130	17.90	0.025-0.106		
		No.4 P.B.	42.475	46.525	2.005	17.90	0.025-0.106		90999-73070
			1-4	18.011	20.021	1.045	25.00	0.004-0.008	
<b>L</b> 4 cyl 90 x 86 2188cc  <b>2L</b> 4 cyl 92 x 92 2446cc  <b>3L</b> 4 cyl 96 x 96 2779cc	<b>MS-1161A</b> (78-83)  <b>MS-1406A</b> (84-ON)	Main 1-5	62.000	66.024	1.987	27.50	0.026-0.100	11.5-12.5	11702-54010
		Main 1-5	62.000	66.024	1.987	27.50	0.026-0.100	10.5	11701-54060
	<b>TW-1161A</b> (78-ON)  <b>CB-1161A</b> (78-83)	T.W. No.3	(I.D.)70.00	(O.D.)82.0	2.490				11011-54010
		C.R. 1-4	53.000	56.020	14.90	26.00	0.028-0.094	5.0-6.0	13202-54010
	<b>CB-1406A</b> (83-84)	C.R. 1-4	53.000	56.000	1.486	26.00	0.028-0.094	5.0-6.0	13041-54013
		C.R. 1-4	53.000	56.000	1.486	26.00	0.028-0.094	5.0-6.0	13041-54040
	<b>SH-1161A</b> (78-87)	Cam No.1	34.985	38.027	1.500	28.00	0.022-0.074	1.5-2.2	11802-54010
		No.2,3	34.985	38.027	1.500	20.00	0.022-0.074		
	<b>SH-1431A</b> (88-ON)  <b>PB-1063J</b> (78-83)  <b>PB-1411J</b> (84-88)  <b>PB-1406J</b> (83-84)  <b>PB-1431J</b> (88-ON)	Cam ΔNo.1	34.985	38.027	1.500	32.60			11802-54020
		2-5	28.000	31.000	1.500	17.40			
		P.B. 1-4	27.012	30.021	1.530	31.00	0.004-0.012		90999-73083
		P.B. 1-4	29.012	32.025	1.530	31.00	0.004-0.012		90999-73094
		P.B. 1-4	27.012	30.021	1.530	(U)23.00 (L)31.00			90999-73114
		P.B. 1-4	29.012	32.025	1.530	(U)23.00 (L)31.00			90999-73115

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>M</b> 6 cyl 75 x 75 1988cc <b>4M</b> 6 cyl 80 x 85 2563cc <b>5M</b> 6 cyl 83 x 85 2759cc <b>6M</b> 6 cyl 83 x 91 2954cc <b>7M</b> 6 cyl 83 x 91 2954cc	<b>MS-1051GP</b> (66-83)	Main 1-7	60.010	64.046	1.998	22.00	0.014-0.082	9.9-10.9	11702-45011
	<b>MS-1414GP</b> (84-ON)	Main 1	60.010	64.046	1.998	25.13	0.014-0.082	9.9-10.9	11702-43010
	<b>TW-1006B</b> (66-ON)	2-7 T.W. No.4	60.010	64.046	1.998	22.13	0.014-0.082		11011-45010
	<b>CB-1171GP</b> (M 84-ON)	C.R. 1-6	(I.D.)66.0	(O.D.)80.0	2.960				13202-45011
	<b>CB-1414GP</b> (5M,6M,7M, 84-ON)	C.R. 1-6	52.000	55.035	1.500	19.90	0.017-0.073	4.2-4.8	13041-42010
	<b>SH-1068A</b> (66-84)	Cam No.1-4	52.000	55.045	1.499	20.00	0.021-0.090	4.2-4.8	11022-41010
	<b>PB-1051J</b> (66-ON)	No.1/L P.B.	34.996	38.038	1.504	20.10	0.012-0.064	1.5-2.2	90999-73066
<b>DB-1171B</b> (79-ON)	1-6 D.B. No.1 No.2	34.996	38.038	1.504	28.00	0.012-0.064		11022-41010	
<b>3P</b> 4 cyl 76.6 x 73 1345cc <b>4P</b> 4 cyl 76.6 x 81 1493cc	<b>MS-1062GP</b> (67-ON)	Main 1-3	52.000	56.047	2.004	29.00	0.015-0.071	9.8-11.2	11702-23011
	<b>TW-1005B</b> (67-ON)	T.W. No.2	(I.D.)57.0	(O.D.)69.0	2.470				11011-23010
	<b>CB-1062GP</b> (67-ON)	C.R. 1-4	47.000	50.043	1.504	23.00	0.013-0.067	4.2-4.8	13202-23012
	<b>SH-1062B</b> (67-ON)	Cam No.1	46.975	51.025	2.000	24.00	0.025-0.090		11802-23010
		No.2	46.775	51.025	2.100	20.00	0.025-0.090		
		No.3	46.575	51.025	2.200	24.00	0.025-0.090		
	<b>PB-1062J</b> (67-ON)	P.B. 1-4	20.012	22.021	1.030	24.00	0.006-0.010		90999-73059
<b>1PZ</b> 5 cyl 94 x 100 3470cc	<b>MS-1439A</b> (88-ON)	Main 1-6	67.000	71.020	1.985	22.00			11701-17010
	<b>TW-1436A</b> (88-ON)	T.W.							11011-17010
	<b>CB-1439A</b> (88-ON)	C.R. 1-5	59.000	62.020	1.505	23.60			13041-17010
	<b>SH-1436A</b> (88-ON)	Cam	35.000	38.020	1.530	29.00			11801-17010
	<b>PB-1439J</b> (88-ON)	P.B. 1-5	29.000	32.000	1.530	27.00			90999-73126

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>5R</b> 4 cyl 88 x 82 1994cc	<b>MS-1107GP</b> (68-78)	Main No.1	60.000	64.030	1.990	28.00	0.020-0.090	10.5-11.5	11702-44020	
		ΔNo.2	60.000	64.030	1.990	41.90	0.020-0.090			
		No.3	60.000	64.030	1.990	36.00	0.020-0.090			
	<b>MS-1159A</b> (78-ON)	Main No.1	60.000	64.030	1.990	28.00	0.016-0.096	10.3-11.7	11702-44040	
		No.2.3	60.000	64.030	1.990	36.00	0.016-0.096			
	<b>TW-1133GP</b> (78-ON)	T.W. No.2	(I.D.)66.0	(O.D.)80.0	1.990				11011-38010	
		<b>CB-1046A</b> (67-ON)	C.R. 1-4	55.000	58.040	1.505	26.00	0.017-0.072	6.0-7.0	13202-44012
	<b>SH-1107B</b> (67-ON)	Cam No.1	46.475	50.025	1.750	29.00	0.025-0.090		11802-40010	
		No.2	46.225	50.025	1.875	20.00	0.025-0.090		11802-40011	
		No.3	45.975	50.025	2.000	46.00	0.025-0.090			
		No.4	45.725	50.025	2.125	19.00	0.025-0.090			
		No.5	45.475	50.025	2.250	28.00	0.025-0.090			
	<b>PB-1046J</b> (67-ON)	P.B. 1-4	22.009	24.021	1.045	30.80	0.005-0.011		90999-73064	
	<b>2R</b> 4 cyl 78 x 78 1490cc	<b>MS-1060A</b> (64-ON)	Main No.1	58.000	61.624	1.790	30.00	0.020-0.088	10.0-11.0	11702-31020
No.2			58.000	61.624	1.790	34.00	0.020-0.088			
No.3			58.000	61.624	1.790	40.00	0.020-0.088			
<b>TW-1007A</b> (64-ON)		T.W. No.2	(I.D.)64.0	(O.D.)76.0	3.000				11011-31020	
		<b>CB-1035A</b> (64-ON)	C.R. 1-4	50.000	53.03	1.498	27.00	0.020-0.065	5.0-6.0	13202-31020
<b>4R</b> 4 cyl 80.5 x 78 1587cc		<b>SH-1060B</b> (64-ON)	Cam No.1	46.475	50.025	1.760	28.00	0.005-0.086		11802-31010
			No.2	46.225	50.025	1.885	42.00	0.005-0.086		
			No.3	45.975	50.025	2.010	25.00	0.005-0.086		
<b>12R</b> 4 cyl 80.5 x 78 1587cc		<b>PB-1035J</b> (64-ON)	P.B. 1-4	20.016	22.025	1.045	27.00	0.006-0.010		90999-73027

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Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number
			Shaft Dia	Housing Bore	Wall Thickness				
<b>6R</b> 4 cyl 86 x 73.5 1707cc	<b>MS-1094GP</b> (68-77) <b>MS-1152GP</b> (77-82)	Main							
		1.2.4.5. ΔNo.3	60.000	64.024	1.997	22.00	0.016-0.080	10.0-11.0	11702-33011
<b>7R</b> 4 cyl 86 x 68.5 1591cc	<b>TW-1133K</b> (77-82)	Main							
		1.2.4.5. No.3	60.000	64.024	1.997	22.00	0.016-0.080	10.0-11.0	11702-31012
<b>8R</b> 4 cyl 86 x 80 1858cc	<b>CB-1133GP</b> (68-82) <b>SH-1068A</b> (77-82)	T.W.							
		No.3	(I.D.)66.0	(O.D.)80.0	1.990				11011-38011
<b>10R</b> 4 cyl 86 x 80 1858cc	<b>PB-1068J</b> (68-82) <b>DB-1152B</b> (74-82)	C.R.							
		1-4	53.000	56.024	1.497	22.00	0.024-0.080	5.8-6.6	13202-38011
<b>16R</b> 4 cyl 88.5 x 80 1968cc		Cam							
		No.1234	34.996	38.038	1.504	20.10	0.012-0.064	1.2-2.3	11802-33010
<b>18R</b> 4 cyl 88.5 x 80 1968cc		No.1/L	34.996	38.038	1.504	28.00	0.012-0.064		
		P.B.							90999-73072
		1-4	22.019	24.021	1.045	28.80	0.005-0.011		
		D.B.							11022-33010
<b>20R</b> 4 cyl 88.5 x 89 2189cc	<b>MS-1133GP</b> (74-82) <b>MS-1405GP</b> (82-ON)	Main							
		1.2.4.5. No.3	60.000	64.024	1.997	22.00	0.016-0.080	10.0-11.0	11702-38010
<b>21R</b> 4 cyl 84 x 89 1978cc	<b>TW-1133K</b> (74-84) <b>TW-1405A</b> (84-ON)	Main							
		1-5	60.000	64.024	1.997	22.00	0.025-0.080	10.0-11.0	11702-38011
<b>22R</b> 4 cyl 92 x 89 2366cc	<b>CB-1133GP</b> (74-ON) <b>PB-1068J</b> (74-ON)	T.W.							
		No.3	(I.D.)66.0	(O.D.)80.0	1.990				11011-38010
		No.4	(I.D.)66.0	(O.D.)80.0	2.750				11011-35020
		C.R.							13202-38011
<b>1RZ</b> 4 cyl 1988cc	<b>MS-1435A</b>  <b>TW-1435A</b>	1-4	53.000	56.024	1.497	22.00	0.025-0.080	5.8-6.6	
		P.B.	22.019	24.021	1.045	28.80	0.005-0.011		90999-73072
<b>2RZ</b> 4 cyl 2438cc	<b>CB-1435A</b>  <b>PB-1435J</b>	1-4							
		P.B.							
		1-2	59.980	64.020	1.996	25.00			11701-75010
		3-5	59.980	64.020	1.996	23.00			
		T.W.							11011-75010
		C.R.							13041-75010
		1-4	52.990	56.020	1.499	19.80			
		P.B.							90999-73129

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>1S</b> 4 cyl 80.5 x 90 1832cc  <b>2S</b> 4 cyl 84 x 90 1995cc  <b>3S</b> 4 cyl 86 x 86 1998cc  <b>4S</b> 4 cyl 86 x 86 1998cc  <b>5S</b> 4 cyl 2164cc	<b>MS-1404A</b> (81-ON)  <b>TW-1117K</b>  (81-84)  <b>TW-1441A</b> (84-ON)  <b>CB-1404A</b>	Main 1.2.4.5. No.3 T.W.  No.3 T.W.  C.R.  1-4 C.R. 1-4 C.R.	55.000 55.000  (I.D.)64.0  47.985 47.985	59.038 59.038  (O.D.)76.0  51.024 51.024	2.000 1.995  2.490  1.488 1.492	19.00 23.00  20.50 21.30	0.020-0.088 0.020-0.088  0.024-0.088 0.016-0.081	5.4-6.6   4.5-5.5 4.5-5.5	11701-63020  11011-25010  11011-74020  13041-63020  13041-88360  13041-74030  90999-73112	
	<b>MS-1104GP</b> (T,2T 70-71)  <b>MS-1117GP</b>  (71-ON)  <b>MS-1422GP</b> (3T-GE,U 82-85)  <b>TW-1117K</b>  (70-85)  <b>CB-1117GP</b> (70-ON)  <b>CB-1422GP</b>  (3T-GE,U 82-85)  <b>SH-1104B</b> (ALL EXCEPT 3T-GE,U 71-ON)	Main 1.2.4.5. ΔNo.3 Main  1-5 Main 1-5 T.W.  No.3 C.R. 1-4 C.R.  1-4 Cam No.1 No.2	57.990 57.990  57.990  58.000  (I.D.)64.0  47.990  47.990  46.475 46.225  45.975 45.725 45.475	62.024 62.024  62.024  62.024  (O.D.)76.0  51.024  51.024  50.030 49.780  49.030 49.280 49.530	1.997 1.997  1.997  1.997  1.494  1.494  1.745 1.745  1.495 1.745 1.995	20.80 30.90  20.80  20.00  19.80  18.80  18.00 16.00  18.00 16.00 18.00	0.020-0.084 0.020-0.084  0.020-0.084  0.020-0.084  0.016-0.086  0.016-0.086  0.015-0.096 0.015-0.096  0.015-0.096 0.015-0.096 0.015-0.096	7.2-8.8   7.2-8.8  7.2-8.8  4.0-5.0 4.0-5.0	11702-25011  11702-25013  11702-88280  11011-25010  13202-25010  13041-88281  11802-25010	
	<b>1UZ</b> 8 cyl 87.5 x 82.5 3968cc	<b>MS-1440GP</b> (89-ON)  <b>TW-1440A</b> (89-ON)  <b>CB-1440GP</b> (89-ON)								11701-50010  11011-50010  13041-50020

# TOYOTA

Engine, Cyl. Bore-Stroke Cubic Disp.	NDC SET No. (Year Mfr.)	Position	Dimension STD Size Max. mm			Length mm	Oil Clearance mm	Fixed Torque (m.kg)	OEM STD Set Number	
			Shaft Dia	Housing Bore	Wall Thickness					
<b>1VZ-FE</b> V6 78 X 69.5 1992CC <b>3VZ-E-FE</b> V6 2959cc <b>4VZ-FE</b> V6 2496cc	<b>MS-1423GP</b> (87-ON)	Main 1	64.000	68.028	1.992	22.00	0.026-0.085	6.25 + 90°	11701-62010	
		2.3.4.	64.000	68.028	1.992	20.00			11701-62021	
	<b>MS-1437GP</b> (3VZ-E 87-ON)	Main	1	64.000	68.028	1.992	22.00	0.026-0.085	6.25 + 90°	11701-62021
		2-4	64.000	68.028	1.992	20.00	11011-62010			
	<b>TW-1423K</b> (87-ON)	T.W.	No.	(I.D.)71.25	(O.D.)86.5	2.480		0.024-0.087	2.5 + 90°	13041-62010
		C.R. 1-6	1-6	48.000	51.024	1.488	17.00			13041-65020
<b>CB-1423GP</b> (1VZ-FE 87-ON)	C.R. 1-6	1-6	48.000	51.024	1.488	17.00	0.024-0.087	2.5 + 90°	13041-62010	
	C.R. 1-6	1-6	55.000	58.000	1.490	16.80			13041-65020	
<b>1Y</b> 4 cyl 86 x 70 1626cc <b>2Y</b> 86 x 78 1812cc <b>3Y</b> 4 cyl 86 x 86 1998cc	<b>MS-1407A</b> (83-ON)	Main 1-5	58.000	62.020	1.990	20.70	0.020-0.067	8.0-8.5	11701-71020	
		T.W. No.3	(I.D.)64.0	(O.D.)76.0	2.490				11011-25010	
	<b>CB-1407A</b> (83-ON)	C.R. 1-4	1-4	48.000	51.020	1.490	19.90	0.020-0.067	5.0-5.5	13041-71020
		Cam	No.1	46.475	50.030	1.750	18.00			0.025-0.081
	<b>SH-1407B</b> (83-ON)	No.2	No.2	46.225	49.780	1.750	16.00	0.025-0.081		
		No.3	No.3	45.975	49.030	1.500	18.00	0.025-0.081		
		No.4	No.4	45.725	49.280	1.750	16.00	0.025-0.081		
		No.5	No.5	45.475	49.530	2.000	18.00	0.025-0.081		
	<b>1W</b> 4 CYL 104 X 118 4009CC	<b>MS-2109GP</b> (83-ON)	Main 1-5	72.960	78.000	2.490	25.00	0.039-0.090	14-16	11701-78010
			T.W. No.4	(I.D.)82.25	(O.D.)98.7	2.500				11011-78010
<b>CB-2109GP</b> (83-ON)		C.R. 1-4	1-4	61.960	66.000	1.995	28.00	0.031-0.082	11.0-13.5	13041-78010
		Cam	No.1	56.970	60.030	1.500	27.00			0.030-0.120
<b>SH-2109B</b> (83-ON)		No.2	No.2	56.770	59.830	1.500	27.00	0.030-0.120		
		No.3	No.3	56.570	59.630	1.500	27.00	0.030-0.120		
<b>PB-2109J</b> (83-ON)	P.B. 1-4	1-4	35.000	39.025	2.040	38.00	0.015-0.036	90999-73095		