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Tune-up Specifications

4 Cylinder Engines:

B4b	1947-1955
B14	1955-1957
B16	1958-1961
B18	1962-1968
B20	1969-1975
B17, B19, B21, B23	1976-1985
B200, B230, B234	1985-1995
D24	

6 Cylinder Engines:

B30	1969-1975
B27, B28	1976-1986
B280	1987-1991

B4b Description

- Used from 1947 to 1955 in the 444 Series
- 1.4 liters
- 4 cylinders in line
- Overhead valves
- 6 Volts electrical system
- Firing order 1-3-4-2 clockwise
- Oil capacity with filter:

General Specifications

Engine	Year	CC	Fuel System	HP (SAE)	@RPM	LB-ft (SAE)	@RPM	CR
B4b	1947-1953	1.414	Carter	44				
B4b	1954-1955	1.414	Zenith	44				

Tune-Up Specifications

Engine	Year	Idle RPM	Spark Plugs Type	Plug Gap (in.)	Dwell Angle (Deg)	Breaker Point Gap (in.)	Timing BTDC @ 1500 RPM	Valve Clearance Hot or Cold	Warm Cranking Compression (PSI)
	1947-								

B4b	1955							
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B14 Description

- Used from 1955 to 1957 in the 444 Sport and P1900
- 1.4 liters
- 4 cylinders in line
- Overhead valves
- B14A: dual SU H2 carburetors version
- 6 Volts electrical system
- Firing order 1-3-4-2 clockwise
- Oil capacity with filter: 3.75 liters (8 US pints)

General Specifications

Engine	Year	CC	Fuel System	HP (SAE)	@RPM	LB-ft (SAE)	@RPM	CR
B14A	1955-1957	1.414	2 x SU H2	70	5500	75.9	3000	7.8

Tune-Up Specifications

Engine	Year	Idle RPM	Spark Plugs Type	Plug Gap (in.)	Dwell Angle (Deg)	Breaker Point Gap (in.)	Timing BTDC @ 1500 RPM	Valve Clearance Hot or Cold	Warm Cranking Compression (PSI)
B14A	1955-1957	550	Champion Y4A/J6	0.028-0.032	47	0.018-0.022	20	0.020	142-156

B16 Description

- Used from 1957 to 1961 in the 444, 544 and 120 Series
- 1.6 liters
- 4 cylinders in line
- Overhead valves
- B16A: single carburetor, low compression version
- B16D: single carburetor, high compression version
- B16B: dual SU H4 carburetors version
- 6 Volts electrical system
- Firing order 1-3-4-2 clockwise
- Oil capacity with filter: 3.5 liters (7.5 US pints)

General Specifications

Engine	Year	CC	Fuel System	HP (SAE)	@RPM	LB-ft (SAE)	@RPM	CR
B16A	1957-1960	1582	Zenith 34VN	66	4500	85.4	2500	7.4
B16D	1957-1960	1582	Zenith 34VN	72	5500	86.1	2600	8.2
B16B	1957-1961	1582	2 x SU H4	85	5500	86.8	3500	8.2

Tune-Up Specifications

Engine	Year	Idle RPM	Spark Plugs Type	Plug Gap (in.)	Dwell Angle (Deg)	Breaker Point Gap (in.)	Timing BTDC @ 1500 RPM	Valve Clearance Hot or Cold	Warm Cranking Compression (PSI)

B16A	1956-1960	500	Bosch W175T3	0.028- 0.032	47-53	0.016- 0.020	21	0.016 Intake 0.018 Exhaust	135-150
B16D	1957-1961	500	Bosch W225T3	0.028- 0.032	47-53	0.016- 0.020	21	0.020	142-156
B16B	1957-1961	550	Bosch W225T3	0.028- 0.032	47-53	0.016- 0.020	21	0.020	142-156

B18 Description

- Used from 1961 to 1968 in the 544, 120, 1800 and 140 Series
- Different design from its B16 predecessor, but very similar to the later B20 and most parts are interchangeable.
- 1.8 liters
- 4 cylinders in line
- Overhead valves
- B18A: single carburetor version
- B18D: dual SU HS6 carburetors, low compression version
- B18B: dual SU HS6 carburetors, high compression version
- 12 Volts electrical system with generator
- Firing order 1-3-4-2 Anti-clockwise
- Oil capacity with filter: 3.75 liters (8 US pints)

General Specifications

Engine	Year	CC	Fuel System	HP (SAE)	@RPM	LB-ft (SAE)	@RPM	CR
B18A	1962-1964	1778	Zenith 36VN	75	4500	101	2800	8.5
	1965-1968	1778	ZS 175-CD2-S	85	5000	108	3000	8.7
B18B	1961-1963	1778	2 x SU HS6	100	5500	108	4000	9.5
	1964-1966	1778	2 x SU HS6	108	5800	110	4000	10
	1967-1968	1778	2 x SU HS6	115	6000	112	4000	10
B18D	1961-1963	1778	2 x SU HS6	90	5000	105	3500	8.5
	1964-1966	1778	2 x SU HS6	95	5400	107	3800	8.7
	1967	1778	2 x SU HS6	100	5700	108	3500	8.7

Tune-Up Specifications

Engine	Year	Idle RPM	Spark Plugs Type	Plug Gap (in.)	Dwell Angle (Deg)	Breaker Point Gap (in.)	Timing BTDC @ 1500 RPM	Valve Clearance Hot or Cold	Warm Cranking Compression (PSI)
B18A	1962-1964	500-700	Bosch W175T1	0.028- 0.032	59-65	0.016- 0.020	21-23	0.016-0.018	156-185
	1965-1968	600-700	Bosch W175T1	0.028- 0.032	59-65	0.016- 0.020	21-23	0.016-0.018	156-185
B18B	1961-1963	600-800	Bosch W200T35	0.028- 0.032	59-65	0.016- 0.020	17-19	0.020-0.022	170-200
	1964-1966	600-800	Bosch W200T35	0.028- 0.032	59-65	0.016- 0.020	17-19	0.020-0.022	170-200
	1967-1968	600-800	Bosch W200T35	0.028- 0.032	59-65	0.016- 0.020	17-19	0.020-0.022	170-200

B18D	1961-1963	500-700	Bosch W175T1	0.028-0.032	59-65	0.016-0.020	22-24	0.016-0.018	156-185
	1964-1966	500-700	Bosch W175T1	0.028-0.032	59-65	0.016-0.020	17-19	0.016-0.018	156-185
	1967	500-700	Bosch W175T1	0.028-0.032	59-65	0.016-0.020	17-19	0.016-0.018	156-185

B20 Description

- Used from 1969 to 1975 in the 120, 1800, 140 and 240 Series
- Same design as its B18 predecessor with a bigger bore, most parts are interchangeable
- 2.0 liters
- 4 cylinders in line
- Overhead valves
- B20A: single carburetor version
- B20B: dual carburetors version
- B20E: fuel injection, high compression version
- B20F: fuel injection, low compression version sold in the USA. From 1972 all cars sold in the USA had this engine.
- 12 Volts electrical system with alternator
- Firing order 1-3-4-2 Anti-clockwise
- Oil capacity with filter: 3.75 liters (8 US pints)

General Specifications

Engine	Year	CC	Fuel System	HP (SAE)	@RPM	LB-ft (SAE)	@RPM	CR
B20A	1969	1986	ZS 175-CD2-SE	90	4800	119	3000	8.7
	1970	1986	ZS 175-CD2-SE	90	4800	119	3000	8.7
	1971	1986	ZS 175-CD2-SE	90	4800	119	3000	8.7
B20B	1969	1986	2x175-CD2-SE	118	5800	123	3500	9.5
	1970	1986	2x175-CD2-SE	118	5800	123	3500	9.5
	1971	1986	2 x SU HIF6 2x175-CD2-SE	118	5800	123	3500	9.3
	1972	1986	2 x SU HIF6	97	5800	103	3500	8.7
	1973	1986	2 x SU HIF6	97	5800	103	3500	8.7
	1974	1986	2 x SU HIF6	97	5800	103	3500	8.7
B20E	1970	1986	Bosch D jet	130	6000	130	3500	10.5
	1971	1986	Bosch D jet	130	6000	130	3500	10.5
	1972	1986	Bosch D jet	130	6000	130	3500	10.5
	1973	1986	Bosch D jet	130	6000	130	3500	10.5
B20F	1972	1986	Bosch D jet	107	6000	113	3500	8.7
	1973	1986	Bosch D jet	112	6000	115	3500	8.7
	1974	1986	Bosch K jet	109	5500	115	2500	8.7
	1975	1986	Bosch K jet	98 94 w/ cat	6000	110 105 w/cat	3500	8.7

Tune-Up Specifications

Engine	Year	Idle	Spark Plugs	Plug Gap	Dwell Angle	Breaker Point	Timing	Valve Clearance	Warm Cranking Compression
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		RPM	Type	(in.)	(Deg)	Gap (in.)	BTDC	Hot or Cold (in.)	(PSI)
B20A	1971	700	Bosch W175T35	0.028-0.032	59-65	0.016-0.020	22 @ 1500 RPM	0.016-0.018	156-185
B20B	1971	800	Bosch W200T35	0.028-0.032	59-65	0.016-0.020	10 @ 700 RPM	0.020-0.022	170-200
B20E	1971	900	Bosch W225T35	0.028-0.032	59-65	0.016-0.020	10 @ 750 RPM	0.016-0.018	170-200
B20F	1973	900	Bosch W225T35	0.028-0.032	59-65	0.016-0.020	10 @ 700 RPM	0.016-0.018	156-185
	1975	900	Bosch W200T35	0.028-0.032			5 @ 700 RPM	0.016-0.018	156-185

B17 Description**B19****B21****B23**

- Used from 1975 to 1985 in the 240 Series
- Different design from the B20, most parts are not interchangeable.
- B17 = 1.8 liters, B19= 1.9 liters, B21= 2.1 liters, B23= 2.3liters
- 4 cylinders in line
- Overhead camshaft engine
- B17A,B19A,B21A,B23A: single carburetor version
- B19E,B21E,B23E: fuel injection high compression version
- B21F,B23F: fuel injection low compression version for US market
- B21ET,B21FT,B23FT: fuel injection turbo charged version
- 12 Volts electrical system
- Firing order 1-3-4-2 clockwise
- Oil capacity with filter: 3.85 liters (8.1 US pints)

General Specifications

Engine	Year	CC	Fuel System	HP	@RPM	LB-ft	@RPM	CR
B17A	1979 1980	1784	SU HIF6	90	5750	97	2500	8.3
	1981- 1984	1784	SU HIF6	90	5500	97	2500	8.3
B19A	1977 1978	1986	SU HIF6	97	5400	116	3200	8.8
	1979- 1984	1986	SU HIF6	90	5000	112	2500	8.5
B19E	1977- 1981	1986	Bosch K jet	117	6000	116	4500	8.8
	1982-	1986	Bosch K jet	117	6000	111	4500	9.2

	1984							
B21A	1975 1980	2127	ZS 175-CD2-SE	96	5250	121	2500	8.5
	1981	2127	SU HIF6	96	5250	121	2500	8.5
	1982	2127	ZS 175-CD2-SE	102	5250	122	2500	9.3
	1983 1984	2127	ZS 175-CD2-SE	100	5250	122	2500	9.3
B21E	1975- 1983	2127	Bosch K jet	123	5500	125	3500	9.3
B21ET	1981- 1984	2127	Bosch K jet Turbo	155	5500		3750	7.5
B21F	1976 1977	2127	Bosch K jet	102 99 w/cat	5200	114	2500	9.3
	1978	2127	Bosch K jet	104 101 w/cat	5250	117 111 w/cat	2500	9.3
	1979	2127	Bosch K jet	107 USA 111 Can	5250	117 USA 120 Can 114 w/cat	2500	9.3
	1980	2127	Bosch K jet	107 USA 111 Can	5250	114 USA 120 Can	2500	9.3
	1981	2127	Bosch K jet	107 99 MPG	5500 5000	114 114 MPG	2500 3000	9.3
	1982	2127	Bosch K jet Bosch LH 1.0	98 105 LH	5000 5400	112 119 LH	2500 3000	9.3
	1981	2127	Bosch K jet Turbo	126	5400	150	3750	7.5
	1982	2127	Bosch K jet Turbo	127	5400	150	3750	7.5
	1983	2127	Bosch K jet Turbo	127	5400	150	3750	7.5
	1984	2127	Bosch K jet Turbo (Intercooler optional)	131	5400	155	3750	7.5
	1985	2127	Bosch K jet Turbo Intercooler	162	5100	181	3900	7.5
B23A	1983	2315	ZS 175-CD2-SE	112	5000	137	2500	10.3
	1983	2315	ZS 175-CD2-SE	106	5000	132	2500	9.0
B23E	1978- 1980	2315	Bosch K jet	140	5750	141	4500	10.3
	1981	2315	Bosch K jet	136	5500	135	4500	10.0
	1982	2315	Bosch K jet	136	5500	137	4500	10.0
	1983	2315	Bosch K jet	136 115 Can	5500	137 133 Can	4500 3000	10.0 10.3
B23F	1983	2315	Bosch LH 2.0	107	5400	127	3500	10.3
	1984	2315	Bosch LH 2.0	113 std 114 auto	5400	136 133	2750 3500	9.5 10.3

B23FT	1983 1984	2315	Bosch LH 2.0 Turbo	157	5300	184	2900	8.7
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Tune-Up Specifications

Engine	Year	Idle RPM	Spark Plugs Type	Plug Gap (in.)	Dwell Angle (Deg)	Breaker Point Gap (in.)	Timing BTDC @ RPM	Valve Clearance Cold	Warm Cranking Compression (PSI)
B17A	1979- 1984		W7DC	0.030			12@900		
B19A	1977		W7DC	0.030			15@750		
	1978- 1980		W7DC	0.030			12@750		
	1981- 1984		W7DC	0.030			10@750		
B19E	1977- 1983		W6DC	0.030			8@750		
	1984		W6DC	0.030			10@750		
B21A	1979	900	W7DC	0.030	59-65	0.016	10@750	0.014 - 0.016	128-156
	1980 1981	900	W7DC	0.030	59-65	0.016	12@750	0.014 - 0.016	128-156
	1982	900	W7DC	0.030	59-65	0.016	10@750	0.014 - 0.016	128-156
	1983	900	W7DC	0.030	59-65	0.016	7@750	0.014 - 0.016	128-156
	1984	900	W7DC	0.030	59-65	0.016	12@750	0.014 - 0.016	128-156
B21E	1975 1983	900	W6DC	0.030			8@750		
B21ET	1981 1984	900	W6DC	0.030			15@750		
B21F	1976	900	W200T30	0.030			15@700	0.014 - 0.016	
	1977 1978	900	W175T30	0.030			12@750 US 15@750	0.014 - 0.016	
	1979	900	WR7DS	0.030			10@750 8@750 California	0.014 - 0.016	
	1980	900	WR7DS	0.030			8@750 10@750 Can	0.014 - 0.016	
	1981	900	WR7DS	0.030			8@750 8@900 Calif 12@750	0.014 - 0.016	

							MPG	
	1982	900	WR7DS	0.030			8@750 8@900 Calif 12@750 MPG	0.014 - 0.016
B21FT	1981- 1985	900	WR7DS	0.030			12@900	0.014 - 0.016
B23A	1983	900	W7DC	0.030			5@750	
B23E	1978 1982	900	W6DC	0.030			5@750	0.014 - 0.016
	1983	900	W6DC	0.030			5@750 10@750 Can	0.014 - 0.016
	1984	900	W6DC	0.030			10@750	0.014 - 0.016
B23F	1983 1984	750	WR7DS	0.030			12@750	0.014 - 0.016
B23FT	1983- 1984	750	WR7DC	0.030			12@750	0.014 - 0.016

B200 Description**B230****B234**

- Used from 1985 to 1995 in the 240,740 and 940 Series
- Similar design to the B21, most parts are interchangeable.
- B230= 2.3 liters
- 4 cylinders in line
- Overhead camshaft engine
- B200K,B230A,B230K: single carburetor version
- B200E,B230E: fuel injection high compression version
- B230F: fuel injection low compression version
- B230FT: fuel injection turbo charged version
- B234: fuel injection 16 valves version
- 12 Volts electrical system
- Firing order 1-3-4-2 clockwise
- Oil capacity with filter: 3.85 liters (8.1 US pints)

General Specifications

Engine	Year	CC	Fuel System	HP (SAE)	@RPM	LB-ft (SAE)	@RPM	CR
B200E	1985- 1986		Bosch K jet	117	6000	117	3000	10
B200K	1985- 1986		Solex-Cisac	101	5400	118	2400	10
B200K	1985- 1986		Solex-Cisac	98	5400	118	2400	8.5

B230A	1985-1986	2316	Pierburg DVG 175CDSU	110	5000	138	2500	10.3
B230E	1985-1986	2316	Bosch K jet	131	5400	140	3600	10.3
B230ET		2316	Bosch Motronic Turbo					
B230F	1985-1988	2316	Bosch LH 2.2	114	5400	136	2750	9.8
B230F	1989-1993	2316	Bosch LH 2.4	114	5400	136	2750	9.8
B230F	1991-1993	2316	Bosch LH 3.1	114	5400	136	2750	9.8
B230FT	1985-1989	2316	Bosch LH 2.2 Turbo	160	5300	187	2900	8.7
B230K		2316	Pierburg 2B5					
B234F		2316	Bosch LH jet		5700		4450	

Tune-Up Specifications

Engine	Year	Idle RPM	Spark Plugs Type	Plug Gap (in.)	Timing BTDC @ RPM	Valve Clearance Cold	Warm Cranking Compression (PSI)
B200E	1985-1986		W6DC	0.030	10@	0.014 - 0.016	
B200K	1985-1986		W7DC	0.030	7@	0.014 - 0.016	
B230A	1985-1986		W7DC	0.030	7@	0.014 - 0.016	
B230E	1985-1986		W6DC	0.030	10@	0.014 - 0.016	
B230F	1985-1989	750	WR7DC	0.030	12@750	0.014 - 0.016	
B230FT	1985-1989	750	WR7DC	0.026	12@750	0.014 - 0.016	

B30

Description

- Used from 1969 to 1975 in the 164 Series
- Same basic design as the B18 and B20 with 2 more pistons, many parts are interchangeable.
- 3.0 liters
- 6 cylinders in line

- Overhead valves
- B30A: dual carburetor version
- B30E: fuel injection high compression version
- B30F: fuel injection low compression version for USA market
- 12 Volts electrical system
- Firing order 1-3-4-2 clockwise
- Oil capacity with filter: 6 liters (12.6 US pints)

General Specifications

Engine	Year	CC	Fuel System	HP (SAE)	@RPM	LB-ft (SAE)	@RPM	CR
B30A	1969	2982	2x175-CD2-SE	145	5500	163	3000	9.3
	1970	2982	2x175-CD2-SE	145	5500	163	3000	9.3
	1971	2982	2x175-CD2-SE	145	5500	163	3000	9.3
	1972	2982	2x175-CD2-SE	145	5000	163	3000	9.3
B30A USA	1972	2982	2x175-CD2-SE	120	5000	142	3000	8.7
B30E	1972	2982	Bosch D jet	175	5800	178	2500	10
	1973	2982	Bosch D jet	160	5500	170	2500	10
	1974	2982	Bosch D jet	160	5500	170	2500	10
	1975	2982	Bosch D jet	160	5500	170	2500	10
B30F	1973	2982	Bosch D jet	138	5500	154	3500	8.7
	1974	2982	Bosch D jet	145	5500	160	2500	8.7
	1975	2982	Bosch D jet	130	5500	150	3500	8.7

Tune-Up Specifications

Engine	Year	Idle RPM	Spark Plugs Type	Plug Gap (in.)	Dwell Angle (Deg)	Breaker Point Gap (in.)	Timing BTDC @ RPM	Valve Clearance Cold	Warm Cranking Compression (PSI)
B30A	1969-1972	900	Bosch W200T35	0.028-0.032	40	0.01	10@700	0.020-0.022	142-170
B30A USA	1969-1972	900	Bosch W200T35	0.028-0.032	42	0.01	10@700	0.020-0.022	128-156
B30E	1972	900	Bosch W200T35	0.028-0.032	42	0.01	10@700	0.020-0.022	156-185
	1973-1975	900	Bosch W225T35	0.028-0.032	42	0.01	10@750	0.020-0.022	128-156
B30F	1973-1975	900	Bosch W200T35	0.028-0.032	42	0.01	10@700	0.020-0.022	128-156

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