

Engine

Model	280 S	280 SE
Model Year	1975 to 1976	1977 to 1980
Chassis Type	116.020	116.024
Engine Type	110.922	110.985
Operation	Four-stroke, carburetor	Four-stroke, gasoline engine mechanical (CIS) fuel injection with air flow sensor
Number of cylinder	6	
Arrangement of cylinders	In-line, upright	
Bore/stroke	mm (in.)	86/78.8 (3.39/3.10)
Total eff. piston displacement cm ³	(cu. in.)	2746 (167.6)
Compression ratio	8:1	
Firing order	1-5-3-6-2-4	
Max. engine rpm	6500	
Engine output	SAE net bhp/rpm	Federal: 142/5750 ¹⁾ California: 137/5750 ¹⁾
Max. torque	SAE net lb. ft/rpm	Federal: 149/4600 ¹⁾ California: 142/4600 ¹⁾
Crankshaft bearings	7	
Valve arrangement	overhead	
Camshaft arrangement	DOHC	
Oil cooling	None	
Cooling	Water circulation pump, thermostat with by-pass line, finned tube radiator, fan with viscous coupling.	
Lubrication	Forced oil circulation via gear-type oil pump	
Oil filter	Full flow filter	
Air filter	Air filter with paper cartridge	

¹⁾ Model years 1977 and 1978

Model	280 S	280 SE
Model Year	1975 to 1976	1977 to 1980
Chassis Type	116.020	116.024
Engine Type	110.922	110.985

Dimensions

Length overall	mm (in.)	5220 (205.5)
Width	mm (in.)	1870 (73.6)
Height, ready-to-drive	mm (in.)	1425 (56.1)
Wheel base	mm (in.)	2865 (112.8)
Track	front	mm (in.) 1521 (59.9)
	rear	mm (in.) 1505 (59.3)
Wheel lock	Inside approx. degrees	43
	outside approx. degrees	34
Turning circle, minimum diam.	m (ft.)	11.59 (38.0)

Model	280 S	280 SE
Model Year	1975 to 1976	1977 to 1980
Chassis Type	116.020	116.024
Engine Type	110.922	110.985

Electrical System

Battery	Voltage Capacity	12 V 55 Ah
Starter	Bosch	GF 12 V 1.5 KW
Alternator	Bosch	K1 14V 55A 20

Filling Capacities

Fuel tank/reserve	Fuel approx. ltr. (US gal.)	96/13 (25.4/3.4)	
Engine	Initial filling	Engine oil approx. ltr. (US qts.)	7 (7.4)
	Oil and filter change	Engine oil approx. ltr. (US qts.)	6.5 (6.9)
	Oil pan up to markings on oil dipstick	Engine oil max/min ltr. (US qts.)	6/4.5 (6.3/4.8)
	Oil filter	Engine oil approx. ltr. (US qts.)	0.6 (0.6)
Cooling system with heater	Coolant approx. ltr. (US qts.)	11 (11.6)	
Water pump		maintenance free	
Brake system	Brake fluid approx. ltr. (US qts.)	0.5 (1.1)	
Automatic Transmission	Autom. transmission fluid (ATF) approx. ltr. (US qts.) Initial filling/fluid change	6.6/5.3 (7.0/5.6)	
Rear axle	Hypoid oil SAE 90 approx. ltr. (US qts.)	1.0 (2.1)	
Power steering	Autom. transmission fluid (ATF) approx. ltr. (qts.)	1.4 (3)	

Model	280 S	280 SE
Model Year	1975 to 1976	1977 to 1980
Chassis Type	116.020	116.024
Engine Type	110.922	110.985

Performance Data

Rear axle ratio	3.69		
Maximum speed in individual gears	1st gear km/h (mph)	40 (25)	40 (25)
	2nd gear km/h (mph)	88 (55)	88 (55)
	3rd gear km/h (mph)	145 (90)	145 (90)
	4th gear approx. km/h (mph)	170 (106)	180 (112)
Gradability	1st gear slip limit % (1 in)	43 (2.33)	42 (2.38)
	2nd gear % (1 in)	42 (2.38)	38 (2.63)
	3rd gear % (1 in)	23 (4.34)	20 (5.00)
	4th gear % (1 in)	9 (11.11)	8 (12.50)
Acceleration through gears 0 to 100 km/h (0 to 62 mph) Load: 2 persons	sec \pm 7 % ¹⁾	15.8	14.4 ²⁾ (15.0)

1) The \pm 7 % tolerance covers not only the variations which are due to the permissible engine output tolerance, but also permissible deviations which may be caused by the tires.

2) California version.

Fuel/Oil Consumption and Operating Conditions

Coolant Temperature	in working range of thermostat	approx. °C (°F)	85 to 100 (185 to 212)
	max. temp.	approx. °C (°F)	126 (259)
Fuel type	Gasoline, Lead-free		
Anti-knock property	minimum-ROZ	91	
	minimum-MOZ	81	

Engine

Model	450 SE	450 SEL	450 SE	450 SEL
Model Year	1973 to 1975		1976	1976 to 1980
Chassis Type	116.032	116.033	116.032	116.033
Engine Type	117.983		117.986	
Operation	Four-cycle gasoline injection, electronically controlled		Four-cycle gasoline engine mechanical (CIS) fuel injection with air flow sensor	
Number of cylinders	8			
Arrangement of cylinders	90° V			
Bore/stroke	mm (in.)	92/85 (3.62/3.25)		
Total eff. piston displacement	cm ³ (cu. in.)	4520 (275.8)		
Compression ratio	8 : 1			
Firing order	1-5-4-8-6-3-7-2			
Max. engine rpm	5800			
Engine output	SAE net bhp/rpm	180/4750 ¹⁾		
Max. torque	SAE net lb. ft/rpm	220/3000 ²⁾		
Crankshaft bearings	5			
Valve arrangement	overhead	overhead with hydraulic lifters		
Camshaft arrangement	One OHC per cylinder bank			
Oil cooling	None			
Cooling	Water circulation pump, thermostat with by-pass line, finned tube radiator, fan with viscous coupling.			
Lubrication	Forced oil circulation via gear-type oil pump			
Oil filter	Full flow filter			
Air filter	Air filter with paper cartridge			

¹⁾ 190/4750 for model year 1973 and Federal version in model year 1974

²⁾ 240/3000 for model year 1973 and Federal version in model year 1974
 232/3000 for California version in model year 1974

Model Year	1973 to 1975		1976	1976 to 1980
Chassis Type	116.032	116.033	116.032	116.033
Engine Type	117.983		117.986	

Dimensions

Length overall	mm (in.)	5220 ³⁾ (205.5)	5320 ⁴⁾ (209.4)	5220 (205.5)	5320 (209.4)
Width	mm (in.)	1870 (73.6)			
Height, ready-to-drive	mm (in.)	1425 (56.1)	1430 (56.3)	1425 (56.1)	1430 (56.3)
Wheel base	mm (in.)	2865 (112.8)	2965 (116.7)	2865 (112.8)	2965 (116.7)
Track	front	1521 (59.9)			
	rear	1505 (59.3)			
Wheel lock	inside approx. degrees	43			
	outside approx. degrees	34			
Turning circle, minimum diam.	m (ft.)	11.59 ⁵⁾ (38.0)	11.90 ⁶⁾ (39.0)	11.59 (38.0)	11.90 (39.0)

³⁾ 4960 (195.3) for model year 1973

⁴⁾ 5060 (199.2) for model year 1973

⁵⁾ 11.44 (37.5) for model year 1973

⁶⁾ 11.78 (38.7) for model year 1973

Model Year	1973 to 1975	1976	1976 to 1980
Chassis Type	116.032	116.033	116.032 116.033
Engine Type	117.983	117.986	

Electrical System

Battery	Voltage Capacity	12 V 88 Ah ⁷⁾	12 V 66 Ah
Starter	Bosch	GF 12 V 1.5 KW	
Alternator	Bosch	K1 14 V 55 A 20 max. output 770 W ⁸⁾	

Filling Capacities

Fuel tank/reserve	Fuel approx. ltr. (US gal.)	96/13 (25.4/3.4)	
Engine	Initial filling	Engine oil approx. ltr. (US qts.)	9 (9.5)
	Oil and filter change	Engine oil approx. ltr. (US qts.)	8 (8.5)
	Oil pan up to markings on oil dipstick	Engine oil max/min ltr. (US qts.)	7.5/5.5 (7.9/5.8)
	Oil filter	Engine oil approx. ltr. (US qts.)	0.75 (0.8)
Cooling system with heater	Coolant approx. ltr. (US qts.)	15 (15.8)	
Water pump		maintenance free	
Brake system	Brake fluid approx. ltr. (US pts.)	0.5 (1.1)	
Automatic Transmission	Autom. transmission fluid (ATF) approx. ltr. (US qts.) Initial filling/fluid change	8.9/7.9 (9.4/8.3)	
Rear axle	Hypoid oil SAE 90 approx. ltr. (US pts.)	1.3 (2.7)	
Power steering	Automatic transmission fluid (ATF) approx. ltr. (US pts.)	1.4 (3)	

7) Model year 1975 with 66 Ah battery

8) K1 (RL) 14 V 55 A 20 for model year 1973 and 1974

Model Year	1973 to 1975		1976	1976 to 1980
Chassis Type	116.032	116.033	116.032	116.033
Engine Type	117.983		117.986	

Performance Data

Rear axle ratio	3.07		
Maximum speed in individual gears	1st gear km/h (mph) 2nd gear km/h (mph) 3rd gear km/h (mph) 4th gear approx. km/h (mph)	95 (60) 155 (96) 190 (118) —	
Gradability	1st gear slip limit % (1 in) 2nd gear % (1 in) 3rd gear % (1 in)	41 (2.44) 30 (3.33) 13.5 (7.41)	
Acceleration through gears 0 to 100 km/h (0 to 62 mph) Load: 2 persons	sec \pm 7 % ⁹⁾	11.6	
Engine rpm at 100 km/h (62 mph) in high gear	2630		

Operating Conditions

Coolant Temperature	in working range of thermostat	approx. °C (°F)	85–100 (185–212)
	max. temp.	approx. °C (°F)	126 (259)
Fuel type	Gasoline, lead-free ¹⁰⁾		
Anti-knock property	minimum-ROZ	91	
	minimum-MOZ	81	

⁹⁾ The \pm 7% factor includes possible deviations from permissible engine and tire tolerance limits

¹⁰⁾ Lead-free gasoline not required for model 1973 and 1974 vehicles.

Engine		
Model		450 SEL 6.9
Model Year		1977 to 1980
Chassis Type		116 036
Engine Type		100.985
Operation		four-stroke gasoline engine, mechanical (CIS) fuel injection with airflow sensor
Number of cylinder		8
Arrangement of cylinders		V-form 90°
Bore/stroke	mm (in.)	107/95 (4.21/3.74)
Total eff. piston displacement	cm ³ (cu. in.)	6834 (417.1)
Compression ratio		8 : 1
Firing order		1-5-4-8-6-3-7-2
Maximum engine rpm		5300
Engine output	SAE net bhp/rpm	250/4000
Max. torque	SAE net lb.-ft./rpm	360/2500
Crankshaft bearings		5
Valve arrangement		Overhead
Camshaft arrangement		One OHC per cylinder bank
Oil cooling		Air-oil cooler
Cooling		Water circulation pump, thermostat with by-pass line fan with viscous coupling, finned tube radiator
Lubrication		Dry sump lubrication via double gear pump
Oil filter		Full-flow filter with paper cartridge
Air filter		Air filter with paper cartridge

Model	450 SEL 6.9
Model Year	1977 to 1980
Chassis Type	116.036
Engine Type	100.985

Dimensions

Length overall	mm (in.)	5335 (210)
Width	mm (in.)	1870 (73.6)
Height ready-to-drive	mm (in.)	1410 (55.5)
Wheelbase	mm (in.)	2960 (116.5)
Track	front	mm (in.) 1521 (59.9)
	rear	mm (in.) 1505 (59.3)
Wheel lock	inside approx. degrees	43
	outside approx. degrees	34
Turning circle-minimum diam.	m (ft.)	12.18 (40)

Weights

Vehicle curb weight	kg (lbs.)	1990 (4390)
Gross vehicle weight rating (GVWR)	kg (lbs.)	2460 (5420)
Gross axle weight rating (GAWR)	front/rear kg (lbs.)	1245/1215 (2740/2680)

Electrical System

Battery	Voltage Capacity	12 V 66 Ah
Starter	Bosch	GB 12 V 1.5 KW
Alternator	Bosch	N1 – 14 V 75 A 20 max. output 1050 W

Model	450 SEL 6.9
Model Year	1977 to 1980
Chassis Type	116.036
Engine	100.985

Filling Capacities

Fuel tank/reserve fuel approx. ltr. (US gal.)				96/13 (25.4/3.4)
Engine	initial filling	engine oil	approx. ltr. (US qts.)	12 (12.7)
	oil and filter change	engine oil	approx. ltr. (US qts.)	11 (11.6)
	up to markings on oil dipstick	engine oil	max./min. ltr. (US qts.)	11/9 (11.6/9.5)
	oil filter	engine oil	approx. ltr. (US qts.)	1 (1)
Cooling system with heater		coolant	approx. ltr. (US qts.)	16 (16.9)
Water pump				maintenance free
Brake system		brake fluid	approx. ltr. (US pts.)	0.5 (1.1)
Automatic transmission	automatic transmission fluid (ATF)		approx. ltr. (US qts.)	8.9 (9.4) (initial filling)
				7.9 (8.3) (oil change)
Rear axle Veedol Multigear Limited Slip Special ¹⁾			approx. ltr. (US pts.)	1.3 (2.7)
Power steering	automatic transmission fluid (ATF)		approx. ltr. (US pts.)	1.4 (3.0)
Hydropneumatic suspension	hydraulic oil		approx. ltr. (US qts.)	5.8 (6.1)

¹⁾ See Specifications on Service Products, page 235.3.

Model	450 SEL 6.9
Model Year	1977 to 1980
Chassis Type	116.036
Engine Type	100.985

Performance Data

Rear axle ratio	2.65	
Maximum speed in individual gears	1st gear km/h (mph) 2nd gear km/h (mph) 3rd gear km/h (mph)	95 (60) 155 (95) 215 (133)
Gradability	1st gear slip limit % (1 in) 2nd gear % (1 in) 3rd gear % (1 in)	40 (2.50) 40 (2.50) 17 (5.88)
Acceleration through the gears 0 to 100 km/h (0 to 62 mph) Load: 2 persons	sec \pm 7% ¹⁾	8.9
Engine rpm at 100 km/h (62 mph) in 3rd gear	2250	

¹⁾ The \pm 7% factor includes possible deviations from permissible engine and tire tolerance limits.

Fuel/Oil Consumption and Operating Conditions

Fuel consumption during average cross-country driving	ltr./100 km (miles/US gal.)	18–29 (13–8)
Fuel consumption at 110 km/h (68 mph)	ltr./100 km (miles/US gal.)	18.8 (12)
Engine oil consumption	ltr./100 km (miles/US pts.)	0.15–0.25 (196–118)
Coolant temperature	in working range of thermostat	approx. °C (°F) 85–100 (185–212)
	max. temp.	approx. °C (°F) 126 (259)
Fuel type	Gasoline, lead-free	
Anti-knock property	minimum-ROZ	91
	minimum-MOZ	81

Engine		
Model		300 SD
Model Year		1978 to 1980
Chassis Type		116.120
Engine Type		617.950
Operation		Four-stroke diesel engine, with MB prechamber and turbocharger
Number of cylinder		5
Arrangement of cylinders		Upright in line
Bore/stroke	mm (in.)	90.9/92.4 (3.57/3.64)
Total eff. piston displacement	cm ³ (cu. in.)	2998 (183.0)
Compression ratio		21.5 : 1
Firing order		1-2-4-5-3
Maximum engine rpm (no load)		5100
Engine output	SAE net bhp/rpm	110/4200
Max. torque	SAE net lb.-ft./rpm	168/2400
Crankshaft bearings		6
Valve arrangement		Overhead
Camshaft arrangement		OHC
Oil cooling		Air-oil cooler
Cooling		Water circulation pump, thermostat with by-pass line fan with viscous coupling, finned tube radiator
Lubrication		Forced oil circulation via gear-type oil pump
Oil filter		Combination full-flow and by-pass filter
Air filter		Air filter with paper cartridge

Model	300 SD
Model Year	1978 to 1980
Chassis type	116.120
Engine Type	617.950

Dimensions

Length overall	mm (in.)	5220 (205.5)
Width	mm (in.)	1870 (73.6)
Height ready-to-drive	mm (in.)	1425 (56.1)
Wheelbase	mm (in.)	2865 (112.8)
Track	front	mm (in.) 1521 (59.9)
	rear	mm (in.) 1505 (59.3)
Wheel lock	inside approx. degrees	43
	outside approx. degrees	34
Turning circle-minimum diam.	m (ft.)	11.59 (38.0)

Weights

Vehicle curb weight	kg (lbs.)	1765 (3890)
Gross vehicle weight rating (GVWR)	kg (lbs.)	2215 (4880)
Gross axle weight rating (GAWR)	front/rear kg (lbs.)	1080/1135 (2380/2500)

Electrical System

Battery	Voltage Capacity	12 V 88 Ah
Starter	Bosch	JF 12 V 2.0 KW
Alternator	Bosch	K1 14 V 55 A max. output 770 W

Model	300 SD
Model Year	1978 to 1980
Chassis Type	116.120
Engine Type	617.950

Filling Capacities

Fuel tank/reserve fuel approx. ltr. (US gal.)			82/14 (21.7/3.7)	
Engine	initial filling	engine oil	approx. ltr. (US qts.)	8.5 (9.1)
	oil and filter change	engine oil	approx. ltr. (US qts.)	7.5 (7.9)
	up to markings on oil dipstick	engine oil	max./min. ltr. (US qts.)	6/4.5 (6.3/4.8)
	oil filter	engine oil	approx. ltr. (US qts.)	1.5 (1.6)
Cooling system with heater		coolant	approx. ltr. (US qts.)	12.4 (13.1)
Water pump			maintenance free	
Brake system		brake fluid	approx. ltr. (US pts.)	0.5 (1.1)
Automatic transmission	automatic transmission fluid (ATF)		approx. ltr. (US qts.)	6.6 (7.0) (initial filling)
				5.3 (5.6) (oil change)
Rear axle Hypoid oil SAE 90			approx. ltr. (US pts.)	1.0 (2.1)
Power steering	automatic transmission fluid (ATF)		approx. ltr. (US pts.)	1.4 (3.0)

Model	300 SD
Model Year	1978 to 1980
Chassis Type	116.120
Engine Type	617.950

Performance Data

Rear axle ratio	3.07
Maximum speed in individual gears	1st gear km/h (mph) 43 (27) 2nd gear km/h (mph) 73 (45) 3rd gear km/h (mph) 120 (75) 4th gear km/h (mph) 165 (103)
Gradability	1st gear slip limit % (1 in) 42 (2.38) 2nd gear % (1 in) 41 (2.44) 3rd gear % (1 in) 16 (6.25) 4th gear % (1 in) 9 (11.11)
Acceleration through the gears 0 to 100 km/h (0 to 62 mph) Load: 2 persons	sec $\pm 7\%$ ¹⁾ 17.0
Engine rpm at 100 km/h (62 mph) in 4th gear	2670

¹⁾ The $\pm 7\%$ factor includes possible deviations from permissible engine and tire tolerance limits.

Fuel/Oil Consumption and Operating Conditions

Fuel consumption during average cross-country driving	ltr./100 km (miles/US gal.)	8–14.5 (29–16)
Fuel consumption at 110 km/h (68 mph)	ltr./100 km (miles/US gal.)	10.6 (23.0)
Engine oil consumption	ltr./100 km (miles/US qt.)	0.25 (262)
Coolant temperature	in working range of thermostat	approx. °C (°F) 80–95 (176–203)
	max. temp.	approx. °C (°F) 126 (259)
Fuel type		Diesel fuel according to ASTM D 975, No. 1-D, 2-D
Anti-knock property	minimum-ROZ	
	minimum-MOZ	