

## Technical Data Models 123.053 (280 CE), 123.150 (300 CD)

### Engine

Chassis type		123.053	123.150
Engine		110.984	617.912
Operation		four-stroke gasoline engine mechanical (CIS) fuel injection with airflow sensor	four-stroke diesel engine with MB prechamber
Number of cylinders		6	5
Arrangement of cylinders		upright in line	
Bore/stroke	mm (inches)	86/78.8 (3.39/3.10)	91/92.4 (3.58/3.64)
Total eff. piston displacement	cm <sup>3</sup> (cu. inches)	2746 (167.6)	3005 (183.4)
Compression ratio		8 : 1	21 : 1
Firing Order		1-5-3-6-2-4	1-2-4-5-3
Maximum engine rpm		6500	5100 (no load)
Engine output	SAE net. bhp/rpm	142/5750 <sup>1)</sup> 137/5750 <sup>2)</sup>	77/4000
Maximum torque	SAE net. lb-ft/rpm	149/4600 <sup>1)</sup> 142/4600 <sup>2)</sup>	115/2400
Crankshaft bearings		7	6
Valve arrangement		overhead	
Camshaft arrangement		DOHC	OHC
Oil cooling		None	air-oil cooler
Engine cooling		Water circulation pump, thermostat with by/pass line, finned tube radiator, viscous fan	
Lubrication		Forced oil circulation by gear pump	
Oil filter		Full-flow filter	Combination full-flow and by-pass filter
Air filter		Air filter with paper cartridge	

<sup>1)</sup> Federal version

<sup>2)</sup> California version

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#### Dimensions

Length overall	mm (in.)	4763 (187.5)	
Width	mm (in.)	1786 (70.3)	
Height, ready-to-drive	mm (in.)	1395 (54.9)	
Wheel base	mm (in.)	2710 (106.7)	
Track	front	mm (in.)	1488 (58.6)
	rear	mm (in.)	1446 (56.9)
Wheel lock	inside	approx. degrees	43°
	outside	approx. degrees	33°
Turning circle – min. diam.	m (ft.)	11.0 (36.1)	

#### Weights

Vehicle curb weight	kg (lbs.)	1590 (3505)	1585 (3495)
Gross vehicle weight (GVWR)	kg (lbs.)	2060 (4540)	2060 (4540)
Gross axle weight rating (GAWR) front/rear	kg (lbs.)	1000/1060 (2205/2340)	1010/1050 (2230/2315)

#### Electrical System

Battery	Voltage	12 V	12 V
	Capacity	55 Ah	88 Ah
Starter	Bosch	GF 12 V 1.5 KW	F 12 V 2.0 KW
Alternator	Bosch	K1 14 V 55 A 20 maximum output 770 W	

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#### Filling Capacities

Fuel tank/reserve fuel		approx. ltr. approx. US gal. approx. Imp. gal.	80/11.5 21.1/3.0 17.6/2.5		
Engine	Initial filling	Engine oil	approx. ltr. approx. US qts. approx. Imp. qts.	7.0 7.4 6.2	7.5 7.9 6.6
	Oil and filter change	Engine oil	approx. ltr. approx. US qts. approx. Imp. qts.	6.5 6.9 5.7	
	Oil pan up to markings on oil dipstick	Engine oil	max./min. ltr. max./min. US qts. max./min. Imp. qts.	6/4.5 6.3/4.8 5.3/4.0	5/3.5 5.3/3.7 4.4/3.1
	Oil filter	Engine oil	approx. ltr. approx. US qts. approx. Imp. qts.	0.6 0.6 0.5	1.5 1.6 1.3
Cooling system with heater	Coolant	approx. ltr. approx. US qts. approx. Imp. qts.	10 10.6 8.8	11 11.6 9.7	
Water pump			maintenance free		
Brake system	Brake fluid	approx. ltr. approx. US pts. approx. Imp. pts.	0.5 1.1 0.9		
Automatic transmission Initial filling/ fluid change	Automatic transmission fluid (ATF)	approx. ltr. approx. US qts. approx. Imp. qts.	6.6/5.3 7.0/5.6 5.8/4.7	6.1/4.8 6.4/5.1 5.4/4.2	
Rear axle	Hypoid oil SAE 90	approx. ltr. approx. US pts. approx. Imp. pts.	1 2.1 1.8		
Power steering	Automatic transmission fluid (ATF)	approx. ltr. approx. US pts. approx. Imp. pts.	1.4 3 2.5		

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#### Performance Data

Rear axle ratio		3.54	3.46	
Maximum speed in individual gears	1st gear	km/h (mph)	42 (26)	36 (23)
	2nd gear	km/h (mph)	88 (55)	64 (40)
	3rd gear	km/h (mph)	145 (90)	104 (65)
	4th gear	approx. km/h (mph)	180 (112)	143 (89)
Gradability	1st gear slip limit	% (1 in)	41 (2.44)	41 (2.44)
	2nd gear	% (1 in)	41 (2.44)	37 (2.70)
	3rd gear	% (1 in)	23 (4.35)	15 (6.67)
	4th gear	% (1 in)	9 (11.11)	7.5 (13.33)
Acceleration through gears 0 to 100 km/h (0 to 62 mph) Load: 2 persons		sec. $\pm 7\%$ <sup>1)</sup>	12.9 <sup>2)</sup> 13.5 <sup>3)</sup>	20.8
Engine rpm at 100 km/h (62 mph) in high gear		3155	3090	

#### Fuel/oil consumption and operating conditions

Fuel consumption during average cross-country driving		ltr./100 km	12–19.5	9–14
		miles per US gal.	20–12	26–17
		Imp. gal.	24–14	31–20
Fuel consumption at 110 km/h (68 mph)		ltr./100 km	14.8 <sup>2)</sup> 15.4 <sup>3)</sup>	11.5
		miles per US gal.	16 <sup>2)</sup> 15 <sup>3)</sup>	20
		Imp. gal.	19 <sup>2)</sup> 18 <sup>3)</sup>	25
Engine oil consumption (max.)		ltr./100 km	0.25	
		miles per US qts.	235	
		Imp. qts.	282	
Coolant temperature	in working range of thermostat	approx. °C (°F)	85–100 185–212	80– 95 176–203
	max. temp.	approx. °C(°F)	126 (259)	
Fuel types		Gasoline, lead-free	Diesel fuel according to ASTM D 975 No. 1–D, 2–D	
Anti-knock property	minimum-ROZ		91	---
	minimum-MOZ		81	---

<sup>1)</sup> The  $\pm 7\%$  factor includes possible deviations from permissible engine performance and tire tolerance limits.  
<sup>2)</sup> Federal version.  
<sup>3)</sup> California version.