MERCEDES-BENZ

500SL (107.046)

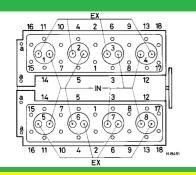
1980 to 1989

Engine & Cooling	Fuel Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
	Α	utomot	ive			
		echnica				
				_	Click on o buttons abo data for th	ove to view
		30	OK		return to this make anoth click anywh	screen and her choice,
					data so	
Engine and	l cooling sys	tem		500SL (1		980 to 1989
Туре	' number of cylinde			117.964 KE 4973 / 8	107.040) 1	700 10 1707
Compression ra Oil pressure Oil temperature	tio / pressure		bar bar °C	9.0 / ≥8.5 0.3 [3.0]		
Valve clearance			mm mm	– 0: Hyd. 0: Hyd.		
Firing order No 1 cylinder po Thermostat ope	osition ning temperature		°C	1-5-4-8-6-3- FR 80±2	7-2	
Radiator cap pro	essure		bar	1.2±0.1	107.046) 1	980 to 1989
Idle speed - ma Fast idle speed	nual [auto] - manual [auto]		rpm rpm	600 to 750		
HC @ idle speed	d [3000 rpm] - see <mark>d [3000 rpm] - see</mark> ed [3000 rpm] - se	page VI	% ppm %	1.5±0.5 [0.1 t ≤1200	to 0.8]	
O2 @ idle speed Carburettor / fue	d [3000 rpm] - see		%	Bosch	the set of	
Type / ref Main jet / ne Injection pre			bar	CIS-E (KE-Je _ ≥3.7	etronic)	
Pump pressure Octane rating			bar RON	6.2 to 6.4 95[RA]		
Ignition sys Type	stem			EZL	<mark>107.046) 1</mark>	980 to 1989
Ignition coil Primary res Ballast resis			ohms ohms	Bosch 0.2 to 0.4		
Voltage - Tr Distributor	mnl 15(+) to earth		V	Battery Bosch		
Points gap Dwell angle Condenser			mm ° (%) µF	_ 1 to 18 @ sta _	arter speed	
Rotation Ignition timing -		° Crankshaft		_ 27 to 31 BTD NV)C @ 3200	
Total ignition ad		 ° Crankshaft ° Crankshaft 	@ rpm	14 to 18 BTC 41 to 45 BTC		
Centrifugal	check.	 ° Crankshaft ° Crankshaft ° Crankshaft 	@ rpm	Computer co	ontrol	
Vacuum ran	•	° Crankshaft	@ rpm mbar	_ Computer co	ontrol	
Maximum Spark plugs Type	n vacuum advance	° Cra	nkshaft	– Bosch/Cham W7DC / N9Y	•	
Electrode g			mm	0.80 500SL (1	<mark>107.046) 1</mark>	980 to 1989
Battery Alternator voltag	ge / full load currei	nt / engine rpm		12 / 200 / 66 13.0 to 14.5	Ah	
		ranking ocked	A / V A / V	_ 560 to 780 /	5.0	
Running ge Brakes -		ioknoss)			<mark>107.046) 1</mark>	980 to 1989
	friction material th riction material thi		mm mm	2.0 2.0		
Saloon Estate / Var	n front / rear - Saloo	n	Size Size bar	205/65x15 _ 2.0 / 2.4		
Front suspensi	- Estate on / wheel alignn	e / Van	bar	-		
Toe-in (+) / Camber Castor	loe-out (–)		mm [°]	[+20'±10'] -10'+10'-20' +10°30'±30'		
King pin inc Rear suspensio Toe-in (+) /	on / wheel alignm	ent	mm [º]	– [+10′ to 35′]		
Camber				-1°45′±30′		000 4- 1000
Cylinder head -	ench settings stage 1 stage 2		Nm Nm	30 ¹ 60	107.046) 1	700 10 1989
Cylinder head - -	stage 3 stage 4		Nm Nm	Wait 10 min. 60 45 + 90 to 10)O°	
Big-end bearing Main bearings Clutch cover			Nm Nm Nm	M10: 50. M1	1: ²	
Flywheel [drivep Front hubs Rear hubs	plate]		Nm Nm Nm	35 + 90 to 10 WSM)0°	
Wheel nuts / bo Spark plugs	lts		Nm Nm	110 25 to 30		
Capacities Engine oil & filte			litres	<mark>500SL (</mark> * 8.0	<mark>107.046) 1</mark>	<mark>980 to 1989</mark>
Gearbox - 4-spe Automatic trans	eed [5-speed]		litres litres	_ 7.7		
Final drive Cooling system Fuel tank			litres litres litres	1.3 13.0 85		
Notos and						

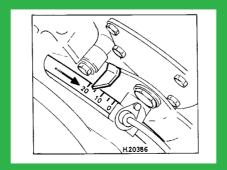
Notes and Illustrations

¹Bolts marked "a" on diagram, 25 ²M11: 55 + 90 to 100°

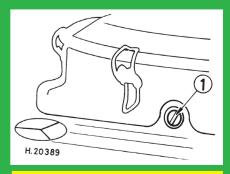




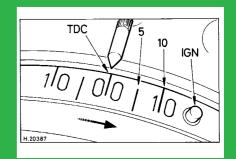
4973 cm³



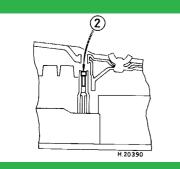
4973 cm³







4973 cm³, alternative



KE-Jetronic