

Engine 102.985 CFI with PMP from 09/90

Engine	102.985 from 09/90
CFI system designation	3
On-off ratio/DTC readout (CFI) On-off ratio readout with ignition: ON	
Engine coolant temperature >80°C	% 50
Engine coolant temperature <70°C	% 30
Impulse readout, engine at closed throttle (idle) position	1 1)
Current at EHA	
Ignition: ON	mA 20
After start enrichment and warmup	
After start enrichment at +20 °C engine coolant temperature	mA 7 – 13
Warmup base value at +20°C engine coolant temperature	mA 1 – 5
Engine coolant temperature +80°C	mA 0±3
Enrichment during acceleration and at +20°C engine coolant temperature	mA >8
Engine at operating temperature	
Part load mixture correction	mA readout oscillates
Wide open throttle enrichment at 2000 rpm	mA 8 – 11
Deceleration fuel shut off	approx. mA –60 (Bosch CFI control module)
Deceleration fuel shut off	approx. mA –50 (VDO CFI control module)

Note: For test conditions refer to Diagnostic Manual, Engine Volume 2.

PMP = Partial intake Manifold Preheater

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Ignition timing and dwell		
Closed throttle (idle) speed	rpm	750±50
Ignition timing with vacuum	BTDC	8 – 12
Engine speed	rpm	3200
Ignition timing with vacuum	BTDC	39 – 43
Ignition timing without vacuum	BTDC	22 – 26
Dwell	∠°	27 – 54
Dwell	%	30 – 60


Reference Resistor (DI)

Engine	Model	MB Part No.	Ignition adjustment ° CA	Resistance Ω/kΩ
102.985	201	000 540 24 81	0	750 Ω


Note: If the reference resistor fails, then the ignition is retarded 3° at wide open throttle.

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Closed throttle (idle)		
Selector lever position/Transmission range	P/N	D
Engine oil temperature	°C approx.	80
Closed throttle (idle) speed	rpm	750±50 <750
Control range	mA	580±50 <580
On-off ratio readout during deceleration fuel shut off	%	50 (Bosch CFI control module)
On-off ratio readout during deceleration fuel shut off	%	95 (VDO CFI control module)
Engine coolant temperature	°C	20
Closed throttle (increased idle) speed	rpm	1200±50 max. 28 sec.
Closed throttle (increased idle) speed	rpm	800±50
Engine coolant temperature	°C	80
Closed throttle (increased idle) speed	rpm	1000±50 max. 28 sec.
Vacuum	mbar	550 – 650
Lambda control	ontrol range %	50±10

Engine	102.985 from 09/90	
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Engine performance ⁴⁾		
Engine speed	rpm	5000
Output, manual transmission, 3rd gear	hp	96 
Output, 4-speed AT, transmission range 3	hp	94

⁴⁾ These are minimum performance values. Do not exceed speed of 80 mph.

 Check performance only at simulated engine coolant temperature of 80 °C (use 2 resistance substitution units)