SI07.07-P-0001A Service Information: diagnosis of mass air flow sensor in conjunction with				
3107.07-P	-0001A	Service Information: diagnosis of mass air flow sensor in conjunction with	14.10.02	
		complaints about engine running characteristics		
ENGINE		1.6.00 in MODEL 202		
ENGINE	112.912 in MO	,		
ENGINE	112.913 in MO			
<b>ENGINE</b>		1.6.00 in MODEL 210		
ENGINE		1.6.00 in MODEL 202		
ENGINE		1.6.00 in MODEL 210		
ENGINE	112.922 as of '	1.6.00 in MODEL 220		
ENGINE	112.940 as of '	1.6.00 in MODEL 208		
ENGINE		1.6.00 in MODEL 210		
ENGINE	112.942 as of '	1.6.00 in MODEL 163		
ENGINE	112.944 as of '	1.6.00 in MODEL 220		
<b>ENGINE</b>	112.946 in MO	DEL 203		
ENGINE	112.947 in MO	DEL 170		
<b>ENGINE</b>	112.949 in MO	DEL 211		
<b>ENGINE</b>	112.955 in MO	DEL 209		
<b>ENGINE</b>	113.940 as of '	1.6.00 in MODEL 210		
<b>ENGINE</b>	113.941 as of '	1.6.00 in MODEL 220		
<b>ENGINE</b>	113.942 as of '	1.6.00 in MODEL 163		
<b>ENGINE</b>	113.943 as of	1.6.00 in MODEL 208		
<b>ENGINE</b>	113.960 as of '	1.6.00 in MODEL 215, 220		
<b>ENGINE</b>	113.963 in MO	DEL 230		
<b>ENGINE</b>	113.965 in MO	DEL 163		
<b>ENGINE</b>	113.967 in MO	DEL 211		
<b>ENGINE</b>	113.968 in MO	DEL 209		
<b>ENGINE</b>	137.970 in MO	DEL 215, 220		
<b>ENGINE</b>	113.987 in MO	DEL 209		
<b>ENGINE</b>	112.945, 113.9	62 /982 in MODEL 463		
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## Operation no. of operation texts or standard texts and flat rates

Range	Op. no.	Operation text	Time	Acc. no.	Code
Р	071405	Checking mass air flow sensor with DAS (following engine	004 WU		
		test).			

1 As of STAR DIAGNOSIS version 05/2002 the following test is available in addition to the familiar test steps for diagnosis of the mass air flow sensor:

A further test step available:

'	'Testing engine signal voltage when standing still/ignition
on"	
i En	try into menu via STAR DIAGNOSIS:

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"Engine electronic circuitry"

"Actual values"

"Check engine at idle"

"Test values at idle"

- i Perform test steps for diagnosis of mass air flow sensor under the following circumstances:
- Complaints about engine running characteristics in conjunction with fault code P2004
- Complaints about engine running characteristics in conjunction with fault code P2085, P2086, P2087
- Engine running complaints: rough idling, poor output, poor throttle response

## i Nominal values:

- HFM voltage (engine standing still) 0.980...1.030V
- HFM voltage (engine idling) 1.200...1.700V
- i Replace mass air flow sensor only if actual values are beyond nominal values!

<sup>&</sup>quot;Air mass test"

<sup>&</sup>quot;Power supply test"