

Engine 606.912 as of start of production 06/95 (MSA15.1)
Engine 606.961 as of start of production 06/96 (MSA25.1)

Engine	606.912	606.961
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Testing and adjusting closed throttle position op. no. 07-2053 or 07-2056		
AT selector lever position Readout	P/N	P/N
MT clutch switch	OFF	-
Clutch pedal not operated Readout	ON	-
Clutch pedal operated Readout	>60	>60
Engine coolant temperature °C	610-710	560-660
Engine speed rpm		

Engine 606.912 as of start of production 06/95 (MSA15.1)
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Engine	606.912	606.961
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Testing and adjusting engine op. no. 07-1100 Page 1		
Engine speed rpm	610-710	560-660
Start of delivery or GI value °CKA after TDC	14+0.5	14+0.5
Engine coolant temperature °C	>60	>60
Fuel rack position mm	7.5-9.5	5.0-7.0
Fuel temperature °C	>20	>20
Selector lever position Readout	P/N	P/N
MT clutch switch	OFF	-
Clutch pedal not operated Readout	ON	-
Clutch pedal operated Readout	ON	ON
Idle speed recognition, closed throttle position Readout	OFF	OFF
Idle speed recognition, wide open throttle Readout	CTP-0, WOT-100	CTP-0, WOT-100
Position sensor %	>5	>5
Injected fuel quantity/stroke ME		
Stop lamp switch, NO contact/via CAN	OFF	OFF
Brake pedal not operated Readout	ON	ON
Brake pedal operated Readout	>1000 >3200	>610 >3500
Exhaust gas recirculation rpm	ON OFF	ON OFF
Readout	5200 – 5600	5000 – 5300
Max. engine speed without load		

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Engine	606.912	606.961
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Testing and adjusting engine , op. no. 07-1100 Seite 2		
Pressure control rpm	610-710 >3700	560-660 >3700
Readout	ON OFF	ON OFF
Distributor pipe pressure mbar	900-920	Specified/actual value comparison
Intake manifold absolute pressure >2000/min mbar	barometer reading	barometer reading
Barometric pressure mbar	<3700 >3700	-
Resonance flap/suction line rpm	CLOSED OPEN	-
Readout	<1300 1300-2800 2800	-
Resonance flap/intake manifold rpm	CLOSED OPEN CLOSED	-
Readout		-
Oil level inspection switch Readout		✓
Engine speed rpm		560-660 2000 ± 100
EGR lift sensor Specified value mm		0-1 6-7
Exhaust gas recirculation valve %		0 90 ± 5
Distributor pipe pressure > 1000/min mbar		Specified/actual value Blip throttle >1500 comparison
Exhaust gas recirculation Readout		OFF ON

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IFI designation	MSA 15.1	MSA 25.1

Cold start op. no. 07-2320	>200 <20 <20 12-18 >9 ON	>200 <20 <20 12-18 >9 ON
Engine speedrpm Engine coolant temperature°C Intake air temperature°C Fuel rack positionmm Voltage at terminal 87V Terminal 15Readout		
Warm-up op. no. 07-2023	610-710 >20 >20 5.0-7.0 P/N OFF ON	560-660 >20 >20 5.0-7.0 P/N - -
Engine speedrpm Engine coolant temperature°C Intake air temperature°C Fuel rack positionmm AT selector lever positionReadout MT clutch switch Clutch pedal not operatedReadout Clutch pedal operatedReadout		

Engine 606.912 as of start of production 06/95 (MSA15.1)
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Engine	606.912	606.961
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA15.1	MSA25.1
Testing engine output ¹⁾ and exhaust emission op. no. 07-1203 or 07-1206		
Engine speedrpm Fuel rack positionmm Injected fuel quantity/strokeME Intake air temperature°C Engine coolant temperature°C Resonance flap/intake manifoldrpm Readout Resonance flap/suction linerpm Readout Intake manifold absolute pressurebar Distributor pipe pressurembar AT selector lever position 3kW MT 3rd gearkW Opacity (absorption coefficient)1/m Start of delivery°CKA before TDC	4900 >12 >30-33 <30 >60 4900 OPEN 4900 OPEN >950 ²⁾ - 71 75 <1.6 +2 to +6	4900 >12 >30-33 <30 >60 - - - - 1750-1850 76 - <1.6 +2 to +6

1) The test values are minimum outputs. Speed not in excess of 130 km/h. Use workshop test tires.
2) Barometer reading is dependent, refer to Specified/actual value, engine test HHT. Reading approx. 30 mbar lower than closed throttle position value.

Engine 606.912 as of start of production 06/95 (MSA15.1)
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Engine	606.912	606.961
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA15.1	MSA25.1
Testing cruise control op. no. 30-7100		
Safety contactReadout Selector lever positionReadout Move cruise control switch into following positions, Readout is subdivided: Stop lamp switch NO contact/via CAN Brake pedal not operatedReadout Brake pedal operatedReadout Vehicle speedReadout	- - V/B/SP/A ON OFF -	OFF P/N V/B/SP/A ON OFF Specified/actual value comparison
Drive authorization		
Engine control module identifiedReadout Engine control module lockedReadout Start enableReadout Vehicle locked with RCLReadout RCL and engine control module compatibleReadout Engine control moduleReadout CAN reception from RCLReadout	YES YES YES NO YES √ √	YES YES YES NO YES √ √

V = Decelerate
SP = Resume
B = Accelerate
A = OFF

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Engine	606.912	606.961
IFI designation	MSA15.1	MSA25.1

CAN bus		
Engine control module or CAN bus	Readout	√
IFI receives from ETS/ABS/ASR	Readout	YES
IFI receives from ETC	Readout	YES
IFI transmits to ASR/ESP/(Automatic) A/C/ETC	Readout	YES
IFI transmits to ETC/IC	Readout	YES
IFI transmits to ETC/ASR	Readout	YES
IFI transmits to IC/ASR/ETC	Readout	YES
IFI receives from ETS/ABS	Readout	YES
IFI receives from CL	Readout	YES

Engine 606.912 as of start of production 06/95 (MSA15.1)

Engine 606.961 as of start of production 06/96 (MSA25.1)

Engine	606.912	606.961
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Testing fuel pump op. no. 07-5701		
Closed throttle position	rpm	610-710
Delivery rate after 30 s	cm ³	>200
Testing fuel pressure op. no. 07-1603		
Closed throttle position	bar	>0.3
Wide open throttle	bar	>0.5
Testing vacuum pump op. no. 43-0500		
Engine coolant temperature	°C	<20
Closed throttle position after 30 s	mbar	>700
Testing vacuum control valve op. no. 27-0037		
Closed throttle position	mbar	>400
Engine switched off, accelerator control to wide open throttle	mbar	<0
Testing injection nozzles op. no. 07-6712		
Spray pressure		
with new injection nozzles	bar	115-125
with used injection nozzles	bar	>110

Engine 606.912 as of start of production 06/95 (MSA15.1)

Engine 606.961 as of start of production 06/96 (MSA25.1)

Engine	606.912	606.961
Model	210.020/220	140.135
Version/Code	TWC/62/0	TWC/62/0
Injection pump		
Bosch designation	PES 6 M 55 C 320 RS 204	PES 6 M 60 C.320 RS 206
MB part number	606 070 05 01	606 070 06 01
Bosch combination number	0 400 196 002	0 400 196 003
Fuel pump		
Bosch designation	FP/KG M 150	FP/KG 24 M 152
Injection nozzle		
Injection nozzle		
Bosch designation	DN O SD 310	DN O SD 310
Lucas designation	NB 001 R	NB 001 R
Nozzle holder assembly		
Bosch designation	KCE 27 S3	KCE 27 S3
Lucas designation	LDC 001 R02	LDC 001 R02

Engine 606.912 (USA) version as of start of production 09/95 (MSA15.1) up to 05/96

(USA) version as of 06/96 (MSA25.1)

Engine	606.912 (USA) version	606.912 (USA) version
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Testing and adjusting closed throttle position op. no. 07-2053 or 07-2056		
AT selector lever position	Readout	P/N
Engine coolant temperature	°C	>60
Engine speed	rpm	610-710

Engine 606.912 (USA) version as of start of production 09/95 (MSA15.1) up to 05/96

Engine	606.912 (USA) version	606.912 (USA) version
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Testing and adjusting engine op. no. 07-1100 Page 1		
Engine speed	rpm 610-710	610-710
Start of delivery or GI value	°CKA after TDC 14+0.5	14+0.5
Engine coolant temperature	°C >60	>60
Fuel rack position	mm 7.5-9.5	7.5-9.5
Fuel temperature	°C >20	>20
Selector lever position	Readout P/N	P/N
Idle speed recognition, closed throttle position	Readout ON	ON
Idle speed recognition, wide open throttle	Readout OFF	OFF
Position sensor	% CTP-0, WOT-100	CTP-0, WOT-100
Injected fuel quantity/stroke	ME >5	>5
Stop lamp switch, NO contact	Readout OFF	via CAN
Brake pedal not operated	Readout OFF	OFF
Brake pedal operated	Readout ON	ON
Exhaust gas recirculation	rpm >1000 ²⁾ >3200	>1000 >3200
Readout	ON OFF	ON OFF
Pressure control flap	rpm 610-710 >3700	610-710 >3700
Readout	ON OFF	EIN AUS
Intake manifold absolute pressure >2000 rpm	mbar 900-920	900-920
Barometric pressure	mbar refer to barometer reading	refer to barometer reading

Engine 606.912 (USA) version as of start of production 09/95 (MSA15.1) up to 05/96
(USA) version as of 06/96 (MSA25.1)

Engine	606.912 (USA) version	606.912 (USA) version
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Testing and adjusting engine op. no. 07-1100 Page 2		
Resonance flap/suction line	rpm 610-710 >3700 without load	<3700 >3700 without load
Resonance intake manifold switchover valve Y22/6 or resonance intake manifold switch S35/1 ⁴⁾	Readout CLOSED OPEN 1300-2800 >2800 ³⁾	CLOSED OPEN 1300-2800 >2800 ³⁾
Resonance flap/intake manifold	rpm CLOSED OPEN CLOSED	CLOSED OPEN CLOSED
Resonance intake line switchover valve Y22/7 or resonance intake pipe switch S35/1 ⁴⁾	Readout -	✓
Oil level inspection switch	Readout 610-690 ²⁾ 1.5 ± 0.1 1900-2100 Specif./act.	610-690 ²⁾ 1.5 ± 0.1 1900-2100 Specif./act.
Engine speed	rpm value comp. 0 ²⁾	value comp. 0 ²⁾
EGR lift sensor	Specified value mm 2 ²⁾ 30 ± 5	2 ²⁾ 30 ± 5
Specif. val. remains at 1.5 mm for approx. 50 s after end of EGR	Actual value mm	
EGR lift sensor	Specified/actual value comparison OFF ON	Specified/actual value comparison OFF ON
Exhaust gas recirculation valve	% OFF ON	OFF ON
Value after end of EGR and after (approx. 50 s)		
Intake manifold absolute pressure > 1000 rpm	mbar 5200 – 5600	5200 – 5600
Exhaust gas recirculation	Readout	
Readout after end of EGR and after (approx. 50 s)		
Max. engine speed without load		

1) If the position sensor is operated > 50%, the resonance flap/suction line opens
2) If exhaust gas was recirculated previously, an after-running time of approx. 50 s is to be taken into account, then the values can be checked
3) Except limit speed.
4) On MSA 25.1 only.

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(USA) version as of 06/96 (MSA25.1)

Engine	606.912 (USA) version	606.912 (USA) version
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Cold start op. no. 07-2320		
Engine speed	rpm >200	>200
Engine coolant temperature	°C <20	<20
Intake air temperature	°C <20	<20
Fuel rack position	mm 12-18	12-18
Voltage at terminal 87	V >9	>9
Terminal 15	Readout ON	ON
Warm-up op. no. 07-2023		
Engine speed	rpm 610-710	610-710
Engine coolant temperature	°C <20	<20
Intake air temperature	°C -	>20
Fuel rack position	mm P/N	P/N
AT selector lever position	Readout	

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Engine	606.912 (USA) version	606.912 (USA) version
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Testing engine output ¹⁾ and exhaust emission op. no. 07-1203 or 07-1206		
Engine speedrpm	4900	4900
Fuel rack positionmm	>12	>12
Injected fuel quantity/strokeME	>30-33	>30-33
Intake air temperature°C	<30	<30
Engine coolant temperature°C	>60	>60
Resonance flap/intake manifoldrpm	4900	4900
Readout	OPEN	OPEN
Resonance flap/suction linerpm	4900	4900
Readout	OPEN	OPEN
Intake manifold absolute pressurembar	>950 ²⁾	>950 ²⁾
AT selector lever position 3kW	71	71
Opacity (absorption coefficient)1/m	<1.6	<1.6
Start of delivery°CKA before TDC	+2 to +6	+2 to +6

- 1) The test values are minimum outputs. Speed not in excess of 130 km/h. Use workshop test tires.
2) Barometer reading is dependent, refer to Specified/actual value, engine test HHT. Reading approx. 30 mbar lower than closed throttle position value.
V = Decelerate
SP = Resume
B = Accelerate
A = OFF

Engine 606.912 (USA) version as of start of production 09/95 (MSA15.1) up to 05/96
(USA) version as of 06/96 (MSA25.1)

Engine	606.912 (USA) version	606.912 (USA) version
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA15.1	MSA25.1
Testing cruise control op. no. 30-7100		
Safety contactReadout	ON	P/N
Pushbutton switch operatedReadout	OFF	
Not operatedReadout	P/N	V/B/SP/A
Selector lever positionReadout	V/B/SP/A	via CAN
Move cruise control switch into following positions, Readout is subdivided:		ON
Stop lamp switch, NO contact	ON	OFF
Brake pedal not operatedReadout	OFF	
Brake pedal operatedReadout	-	
Vehicle speedReadout		

- V = Decelerate
SP = Resume
B = Accelerate
A = OFF

Engine 606.912 (USA) version as of start of production 09/95 (MSA15.1) up to 05/96
(USA) version as of 06/96 (MSA25.1)

Engine	606.912 (USA) version	606.912 (USA) version
IFI designation	MSA 15.1	MSA 25.1
Drive authorization		
Engine control module identifiedReadout	YES ¹⁾	YES
Engine control module lockedReadout	YES ¹⁾	YES
Start enableReadout	YES	YES
Vehicle locked with RCLReadout	NO	NO
RCL and engine control module compatibleReadout	YES	YES
Engine control moduleReadout	✓	✓
CAN reception from RCLReadout	✓	✓
Readiness to test OBD II		
Ready to test (OBD II)Readout	YES	YES

1) The readout can be on NO on (USA) version vehicles

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Engine	606.912 (USA) version	606.912 (USA) version
IFI designation	MSA15.1	MSA25.1

CAN bus			
Engine control module or CAN bus	Readout		✓
IFI receives from ETS/ABS/ASR	Readout		YES
IFI receives from ETC	Readout		YES
IFI transmits to ASR/ESP/(Automatic) A/C/ETC	Readout		YES
IFI transmits to ETC/IC	Readout		YES
IFI transmits to ETC/ASR	Readout		YES
IFI transmits to IC/ASR/ETC	Readout		YES
IFI receives from ETS/ABS	Readout		YES
IFI receives from CL	Readout		YES

Engine 606.912 (USA) version as of start of production 09/95 (MSA15.1) up to 05/96
(USA) version as of 06/96 (MSA25.1)

Engine	606.912 (USA) version	606.912 (USA) version
Version/Code	TWC/62/0	TWC/62/0
IFI designation	MSA 15.1	MSA 25.1
Testing fuel pump op. no. 07-5701		
Closed throttle position	rpm	610-710
Delivery rate after 30 s	cm ³	>200
Testing fuel pressure op. no. 07-1603		
Closed throttle position	bar	>0.3
Wide open throttle	bar	>0.5
Testing vacuum pump op. no. 43-0500		
Engine coolant temperature	°C	<20
Closed throttle position after 30 s	mbar	>700
Testing vacuum control valve op. no. 27-0037		
Closed throttle position	mbar	>400
Engine switched off, accelerator control to wide open throttle	mbar	<0
Testing injection nozzles op. no. 07-6712		
Spray pressure	bar	115-125
with new injection nozzles	bar	>110
with used injection nozzles	bar	>110

Engine 606.912 (USA) version as of start of production 09/95 (MSA15.1) up to 05/96
(USA) version as of 06/96 (MSA25.1)

Engine	606.912 (USA) version	606.912 (USA) version
Typ	210.020	210.020
Version/Code	TWC/62/0	TWC/62/0
Injection pump		
Bosch designation	PES 6 M 55 C 320 RS 204	PES 6 M 55 C 320 RS 204
MB part number	606 070 05 01	606 070 05 01
Bosch combination number	0 400 196 002	0 400 196 002
Fuel pump		
Bosch designation	FP/KG M 150	FP/KG M 150
Injection nozzle		
Injection nozzle		
Bosch designation	DN O SD 310	DN O SD 310
Lucas designation	NB 001 R	NB 001 R
Nozzle holder assembly		
Bosch designation	KCE 27 S3	KCE 27 S3
Lucas designation	LDC 001 R02	LDC 001 R02