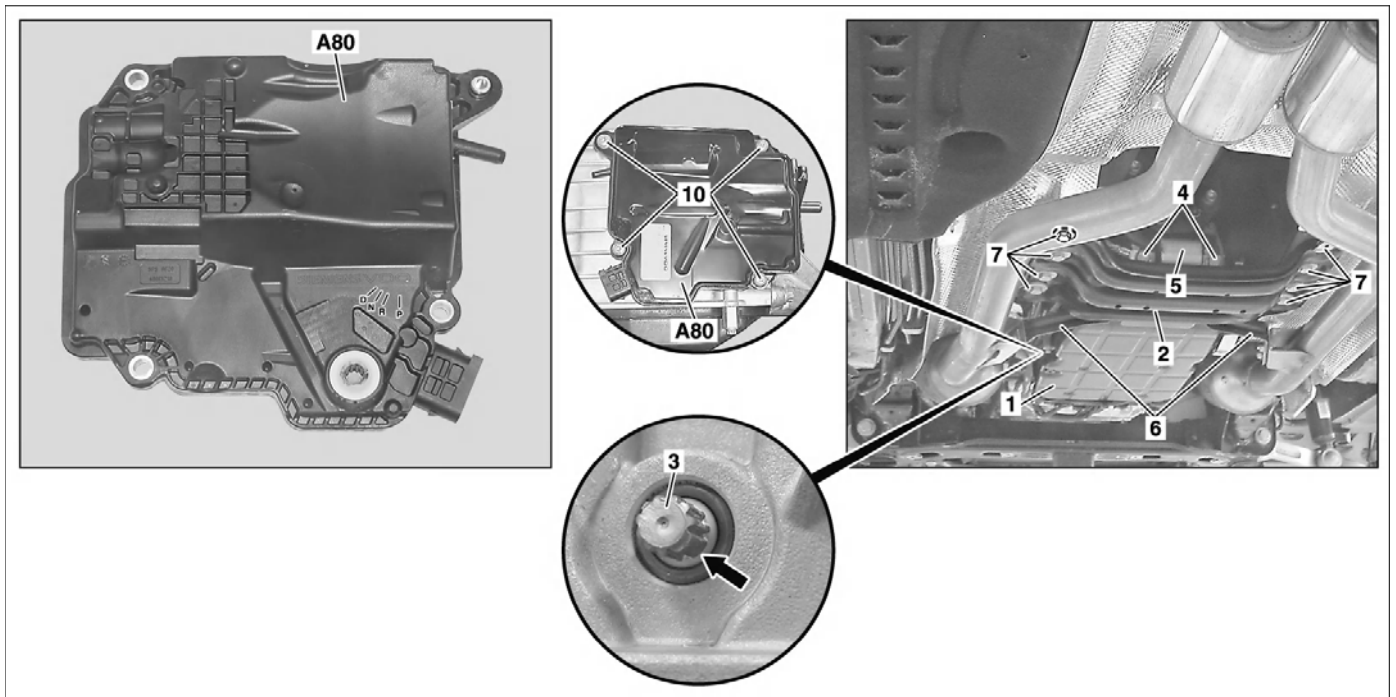
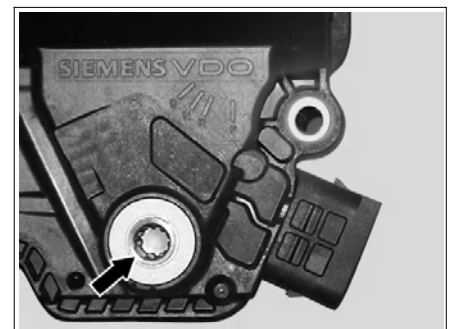


TRANSMISSION 722.9 in MODEL 212, 218







P27.19-2293-09













- | | | | | | |
|---|----------------------|---|-----------------|-----|--|
| 1 | Transmission | 4 | Bolts | 7 | Bolts |
| 2 | Engine cross member | 5 | Engine mount | 10 | Bolts |
| 3 | Range selector shaft | 6 | Exhaust bracket | A80 | Intelligent servo module for DIRECT SELECT |



P27.19-2288-01

	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
⚠	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
⚠	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
⚠	Remove/install		
1	Release parking brake		
2	Disconnect battery ground line Notes on battery		AR54.10-P-0003EW AH54.10-P-0001-01A

3.1	Remove engine compartment paneling	TRANSMISSION 722.9 in MODEL 212 with ENGINE 156 TRANSMISSION 722.9 in MODEL 212 with ENGINE 272 TRANSMISSION 722.9 in MODEL 212 with ENGINE 273 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 157 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 274 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 276 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 278	AR61.20-P-1105EW
3.2	Remove bottom sections of soundproofing	MODEL 212, 218 with ENGINE 642 with TRANSMISSION 722.9 MODEL 212, 218 with ENGINE 651 with TRANSMISSION 722.9	AR94.30-P-5300EW
4 WS WS	Support and secure transmission (1) 000 588 11 62 00 Major assembly mount 000 588 10 62 00 Support plate	 Secure transmission (1) with tensioning strap. Otherwise the transmission (1) may be damaged by it slipping off or tilting over.	WS01.00-P-0092B WS26.00-P-3309B
5	Remove rear engine cross member (2)	TRANSMISSION 722.9 in MODEL 212, 218 TRANSMISSION 722.9 in MODEL 212 with ENGINE 272 TRANSMISSION 722.9 in MODEL 212 with ENGINE 273 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 157 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 274 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 276 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 278 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 642 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 651 TRANSMISSION 722.9 in MODEL 212 with ENGINE 156	AR22.10-P-1180CW AR22.10-P-1180CMG
6	Mark position of front flexible coupling relative to output flange and propeller shaft	 The marking is necessary to ensure that the factory installation position can be restored again when installed. Otherwise the drive line may suffer from vibrations.	
7	Mark vibration damper	TRANSMISSION 722.9 in MODEL 212 with ENGINE 272.983  Attach colored identification of vibration damper position relative to flexible coupling and propeller shaft, to enable the ex-factory installation position to be restored again during installation.	
8	Detach drive shaft at transmission (1)		AR41.10-P-0050EW
9	Remove exhaust bracket (6) from transmission (1)	 TRANSMISSION 722.9 in MODEL 212 with ENGINE 156 TRANSMISSION 722.9 in MODEL 212 with ENGINE 272 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 157 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 276 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 278 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 642 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 651 TRANSMISSION 722.9 in MODEL 212.090	*BA49.10-P-1023-01AE

		<p> TRANSMISSION 722.9 in MODEL 212 with ENGINE 156 TRANSMISSION 722.9 in MODEL 212 with ENGINE 272 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 157 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 276 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 278 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 642 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 651 TRANSMISSION 722.9 in MODEL 212.090</p>	*BA49.10-P-1024-01AE
10	Detach EGR lines from catalytic converters	<p>TRANSMISSION 722.9 in MODEL 212 with ENGINE 272.983</p> <p> Bolt, clamp for exhaust gas recirculation line to catalytic converter</p>	AR14.20-P-1020-01EWD *BA49.10-P-1041-01AE
11	Remove catalytic converters from exhaust manifold	<p>TRANSMISSION 722.9 in MODEL 212 with ENGINE 272 TRANSMISSION 722.9 in MODEL 212 with ENGINE 273 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 276 TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 278</p> <p></p> <p>TRANSMISSION 722.9 in MODEL 212 with ENGINE 272.983</p>	*BA49.10-P-1001-01AE
12	Remove front exhaust pipe from diesel particulate filter	<p>TRANSMISSION 722.9 in MODEL 212, 218 with ENGINE 642</p> <p> Bolt, pipe clamp to diesel particulate filter</p>	*BA49.10-P-1020-01AE
13	Detach electrical connector from Intelligent servo module for DIRECT SELECT (A80)		
14	Lower transmission (1) slightly	<p></p> <p>When being lowered the engine must not rest on the front axle carrier. Otherwise, the oil pan may be damaged.</p>	
15	Remove bolts (10) from intelligent servo module for DIRECT SELECT (A80).	<p> Installation: Replace bolts (10).</p> <p> Standard bolt/hexagon-spacer bolt, shift module (ISM) to transmission housing</p>	*BA27.40-P-1021-01A
16	Remove intelligent servo module for DIRECT SELECT (A80) with bleed hose	<p></p> <p>When reusing the intelligent servo module for DIRECT SELECT (A80) do not detach the vent hose. Otherwise there may be leakages in the connecting points, with resulting water entry.</p> <p> Installation: When replacing the intelligent servo module for DIRECT SELECT (A80), the vent hose must be replaced. The positions of the range selector shaft (3) and the intelligent servo module for DIRECT SELECT (A80) must line up.</p> <p> Assembly tool</p>	*722589030900
17	Rotate range selector shaft (3) of transmission (1) in counterclockwise direction up to the end stop at position "D" (arrow 1 picture)	<p>When reusing the intelligent servo module for DIRECT SELECT (A80)</p> <p> New intelligent servo module for DIRECT SELECT (A80) set to position "D" (arrow 2 picture) (condition as supplied).</p>	
18	Install in the reverse order		
19	Connect diagnostic system, read out fault memory and conduct initial startup of the intelligent servo module for DIRECT SELECT (A80)	When reusing the intelligent servo module for DIRECT SELECT (A80)	
			AD00.00-P-2000-04A

 Housing

Number	Designation	TRANSMISSION 722.9
--------	-------------	-----------------------

BA27.40-P-1021-01A	Standard bolt/hexagon-spacer bolt, shift module Stage 1 (ISM) to transmission housing	Nm	4
		Stage 2	∠°

Nm Exhaust system

Number	Designation		ENGINE 156, 157, 271, 272, 273, 276, 278 in MODEL 212
BA49.10-P-1001-01AE	Bolt, catalytic converter to exhaust manifold	Nm	20

Nm Exhaust system

Number	Designation		ENGINE 642, 651 in MODEL 212	ENGINE 642, 651 in MODEL 218
BA49.10-P-1020-01AE	Bolt, pipe clamp to diesel particulate filter	Nm	35	35

Nm Exhaust system

Number	Designation		ENGINE 156, 157, 271, 272, 273, 276, 278 in MODEL 212	ENGINE 157, 276, 278 in MODEL 218
BA49.10-P-1023-01AE	Bolt, exhaust system bracket to transmission	Nm	20	20

Nm Exhaust system

Number	Designation		ENGINE 642, 651 in MODEL 212	ENGINE 642, 651 in MODEL 218
BA49.10-P-1023-01AE	Bolt, exhaust system bracket to transmission	Nm	20	20

Nm Exhaust system

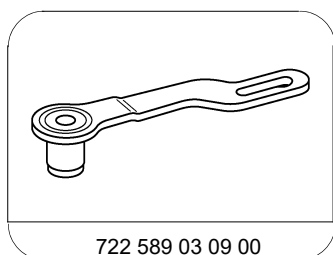
Number	Designation		ENGINE 156, 157, 271, 272, 273, 276, 278 in MODEL 212	ENGINE 157, 276, 278 in MODEL 218
BA49.10-P-1024-01AE	Bolt/nut, exhaust system bracket to exhaust system	Nm	20	20

Nm Exhaust system

Number	Designation		ENGINE 642, 651 in MODEL 212	ENGINE 642, 651 in MODEL 218
BA49.10-P-1024-01AE	Bolt/nut, exhaust system bracket to exhaust system	Nm	20	20

Nm Exhaust system

Number	Designation		ENGINE 156, 157, 271, 272, 273, 276, 278 in MODEL 212
BA49.10-P-1041-01AE	Bolt, clamp for exhaust gas recirculation line to catalytic converter	Nm	9



Assembly tool