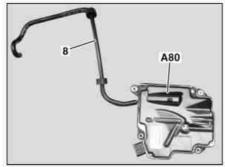
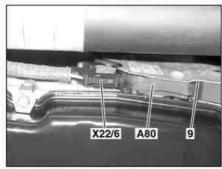
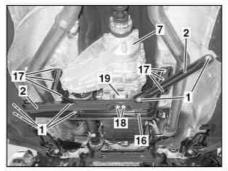
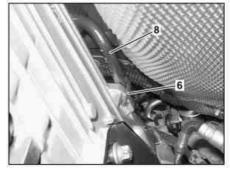
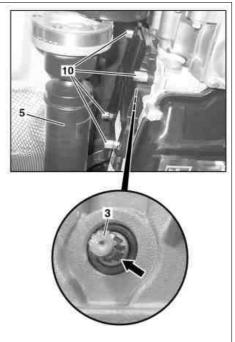
TRANSMISSION 722 in MODEL 164











P27.19-2297-09

Shown on model 164.186

- 1 Bolts
- 2 Struts
- 3 Range selector shaft
- 5 Front propeller shaft
- 6 Cable tie
- 7 Transfer case

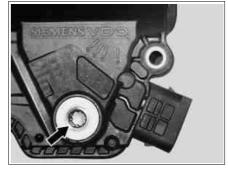
Arrow: Position "D"

- 8 Venting hose
- 9 Protective cover
- 10 Special bolts
- 16 Engine crossmember
- 17 Bolts
- 18 Bolts

19 Rear engine mount

A80 Intelligent servo module for DIRECT SELECT

X22/6 Automatic transmission/intelligent servo module connector



P27.19-2288-01

Modification notes

20.12.07	Notes on different work procedures between "Reusing" and S	Steps 11, 12, 13, 14	
		' ' '	
	"Replacing" the IMS added		

XX	Remove/install		
⚠ Danger!	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
⚠ Danger!	Risk of death when touching components on vehicles with high-voltage on-board electrical system	Do not touch components and open lines of the high-voltage on-board electrical system. Persons who are carriers of electronic implants (e.g. cardiac pacemakers), must not carry out any work on high-voltage on-board electrical systems.	AS54.00-Z-0001-01A
(b)	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
(1)	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A

			I	
1	Release parking brake			
2	Disconnect ground line from battery	(i) Insulate clamping device of the ground line in order to prevent inadvertent contact with the ground point of the battery.	AR54.10-P-0003GZ	
(3)	Notes on battery	with the ground point of the battery.	AH54.10-P-0001-01A	
3	Remove bolts (1) and remove struts (2)	Nm	*BA62.30-P-1001-01E	
		Nm	*BA62.30-P-1002-01E	
		Nm	*BA62.30-P-1003-01E	
		Nm		
			*BA62.30-P-1004-01E	
4	Detach front propeller shaft (5) from transfer case (7).	i Mark front propeller shaft (5) relative to propeller shaft flange using colored pencil or chalk.		
		i Installation: Observe tightening procedure for front propeller shaft (5).	AR41.10-P-0070-03GZ	
		3	*164589020700	
		Nm	*BA41.10-P-1003-01F	
5	Remove cable ties (6) from bleed hose (8) at transmission housing	i Installation: replace cable ties (6). Special cable ties (6) must be used.		
6	Open clip of bleed hose (8) at transmission	Do not destroy the clip otherwise the		
	housing.	correct control of the vent hose (8) is no longer guaranteed.		
7	Detach automatic transmission/intelligent servo module connector (X22/6) on intelligent			
0	servo module for DIRECT SELECT (A80)			
9	Support transmission	[] · · · · · · · · · · · · · · · · ·		
9	Remove bolts (17, 18) and remove engine crossmember (16)	The rear engine mount (19) remains on		
	crossmember (10)	the transmission. Bolts (18) must be replaced.	A DOO 40 D 4470074	
		Vehicles with engine 373, 373, 630, 643	AR22.10-P-1170GZA	
		Vehicles with engine 272, 273, 629, 642	AR22.10-P-1180GZD	
10	Remove bolts at protective cover (9) and take off protective cover (9).	Vehicles with engine 156 i Only if the protective cover (9) is present.	AR22.10-P-1170GZS	
	(2)	i Installation: Replace all bolts. Fit bolts at		
		protective cover (9). First tighten special bolts		
		(10) with attached centering sleeve.		
		Nm	*BA27.40-P-1023-01A	
		Nm	*BA27.40-P-1021-01A	
11.1	Remove special bolts (10) at intelligent servo	i Only if the protective cover (9) is present.		
	module for DIRECT SELECT (A80).	Only if the protective cover (9) is present.		
		i Installation: Replace special bolts (10).		
		Nm	*BA27.40-P-1021-01A	
11.2	Remove bolts from intelligent servo module	Nm	*BA27.40-P-1021-01A	
	for DIRECT SELECT (A80)		27.271101 1021 0171	
12	Remove intelligent servo module for DIRECT SELECT (A80) with bleed hose (8).	Installation: Positions of range selector shaft (3) and intelligent servo module (A80)		
		must match.		
		When reusing the removed intelligent servo module (A80): do not detach vent hose		
13	Twist range selector shaft (3) of transmission	(8) . Leaky separation points result in water entry.		
13	clockwise up to the end stop on position 'P"	When reusing the removed intelligent servo module (A80).		
		The removed intelligent servo module (A80) is on position"P".		
		3	*722589030900	
14	Twist the range selector shaft (3) of the transmission counterclockwise up to the end	When replacing the intelligent servo module (A80).		
	stop on position "D" (arrow)			
		the new intelligent servo module (A80) is		
		on position"D" (arrow). (condition as supplied)	*722589030900	
15	Detach vent hose (8)	i When replacingthe intelligent servo		
		module (A80). Replace vent hose (8).		
16	Install in the reverse order			
17	Read out fault memory and erase if necessary	STAR DIAGNOSIS diagnosis system		
18	Using STAR DIAGNOSIS carry out initial	After replacing the intelligent servo module		
	startup of the intelligent servo module for DIRECT SELECT (A80)	(A80).		

Nm Crossmember and front reinforcement

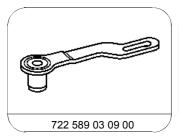
Number	Designation			Model 164
BA62.30-P-1001-01E	Bolt, right bracket to engine crossmember	M10	Nm	45
BA62.30-P-1002-01E	Bolt, right bracket to transmission tunnel	M10	Nm	45
BA62.30-P-1003-01E	Bolt, left bracket to engine crossmember	M10	Nm	45
BA62.30-P-1004-01E	Bolt, left bracket to transmission tunnel	M10	Nm	45

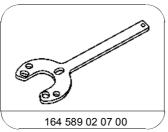
Nm Housing

Number	Designation			Trans- mission 722.55	Trans- mission 722.9
BA27.40-P-1021-01A	Standard bolt/hexagon-spacer bolt, shift module (ISM) to transmission housing	Stage 1	Nm	4	4
		Stage 2	∡°	90	90
BA27.40-P-1023-01A	Bolt, shield of shift module (ISM) to hexagon/special bolt		Nm	7	7

Nm Propeller shaft

Number	Designation			Model 164.1/8
BA41.10-P-1003-01F	Self-locking bolt, propeller shaft to transfer case (to front axle)	Stage 1	Nm	40
		Stage 2	∡°	90





Assembly tool

Retainer wrench