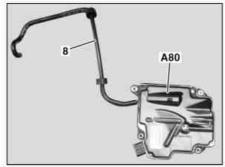
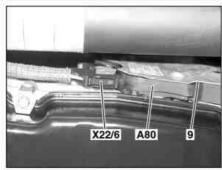
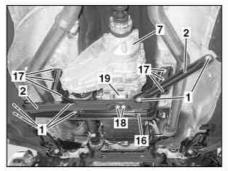
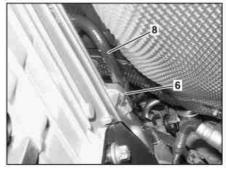
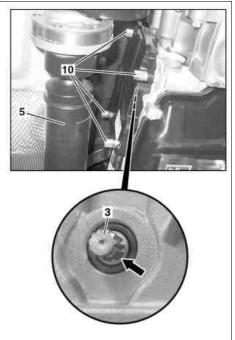
## TRANSMISSION 722 in MODEL 164











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

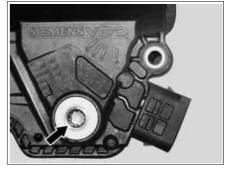
Arrow: Position "D"

- 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	Steps 11, 12, 13, 14	
	"Replacing" the IMS added	• • • • • •	

XX	Remove/install		
⚠ Danger!	<b>Risk of death</b> 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		AS54.00-Z-0001-01A
(3)	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

	ID I I I I		
1	Release parking brake		ADEA 40 D 000007
2	Disconnect ground line from battery	(1) Insulate clamping device of the ground line in order to prevent inadvertent contact with the ground point of the battery.	AR54.10-P-0003GZ
(1)	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
		Mm	*BA62.30-P-1002-01E
		Mm	*BA62.30-P-1003-01E
		Nm	*BA62.30-P-1004-01E
4	Detach front propeller shaft (5) from transfer	i Mark front propeller shaft (5) relative to	27.02.00 7 700 7 012
	case (7).	propeller shaft flange using colored pencil or chalk.	
		Installation: Observe tightening procedure for front propeller shaft (5).	AR41.10-P-0070-03GZ
		<u> </u>	*164589020700
		Nm	*BA41.10-P-1003-01F
5	Remove cable ties (6) from bleed hose (8) at transmission housing	Installation: replace cable ties (6). Special cable ties (6) must be used.	
6	Open clip of bleed hose (8) at transmission housing.	Do not destroy the clip otherwise the correct control of the vent hose (8) is no longer guaranteed.	
7	Detach automatic transmission/intelligent servo module connector (X22/6) on intelligent servo module for DIRECT SELECT (A80)		
8	Support transmission		
9	Remove bolts (17, 18) and remove engine	i The rear engine mount (19) remains on	
	crossmember (16)	the transmission. Bolts (18) must be replaced.	
		Vehicles with engine 113	AR22.10-P-1170GZA
		Vehicles with engine 272, 273, 629, 642 Vehicles with engine 156	AR22.10-P-1180GZD
10	Remove bolts at protective cover (9) and take off protective cover (9).		AR22.10-P-1170GZS
	(,,	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 module for DIRECT SELECT (A80).	Only if the protective cover (9) is present.	
		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
12	for DIRECT SELECT (A80)  Remove intelligent servo module for DIRECT	(B) to a dell'aliano Desiliano e financia dell'aliano	
12	SELECT (A80) with bleed hose (8).	(i) 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 (8) . Leaky separation points result in water entry.	
13	Twist range selector shaft (3) of transmission clockwise up to the end stop on position 'P"	When reusing the removed intelligent servo module (A80).	
		i The removed intelligent servo module	
		(A80) is on position"P".	
		3	*722589030900
14	Twist the range selector shaft (3) of the transmission <b>counterclockwise</b> up to the end stop on position " <b>D</b> " (arrow)	i When <b>replacing</b> the intelligent servo module (A80).	
	Stop 5 position 2 (arrow)	i 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	
	(1)	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

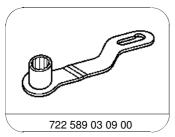
Number	Designation			Model 164
BA62.30-P-1001-01E	Bolt, right bracket to engine crossmember	M10	Nm	45
BA62.30-P-1002-01E	Bolt, right bracket to transmission tunnel	M10	Nm	45
BA62.30-P-1003-01E	Bolt, left bracket to engine crossmember	M10	Nm	45
BA62.30-P-1004-01E	Bolt, left bracket to transmission tunnel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

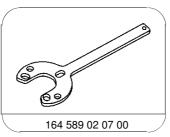
# Nm Housing

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	Δ°	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	۷°	90





Assembly tool

Retainer wrench