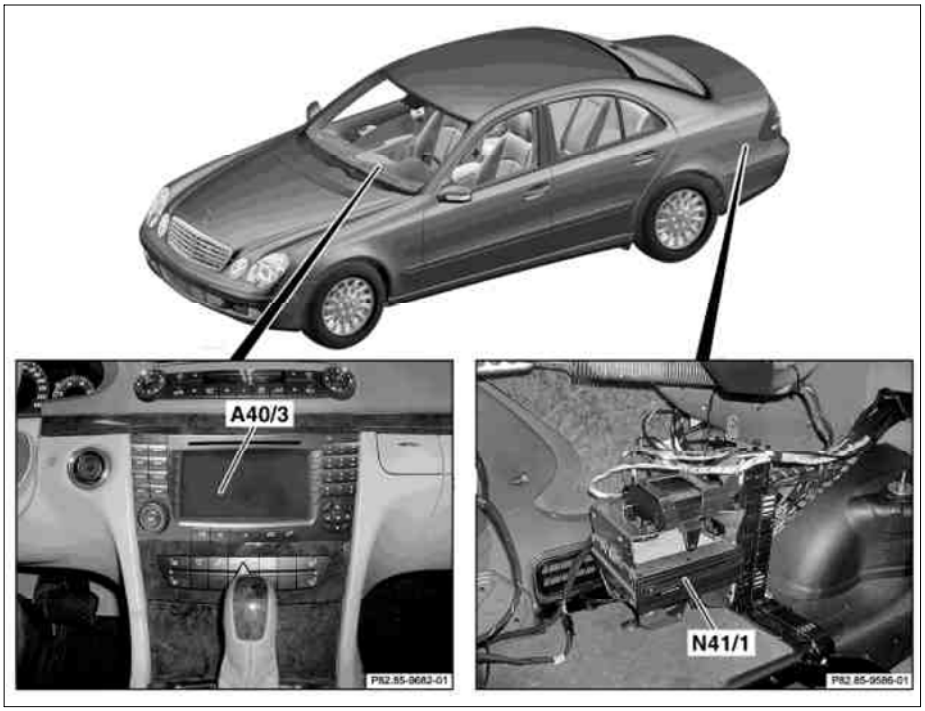
MODEL 211.004 /006 /016 /026 /042 /043 /061 /065 /070 1# except CODE (924) Bivalent natural gas driveVehicles up to model year 2003 (code 803) with Audio 20 CC radio

A40/3 *COMAND operating, display and control unit*
N41/1 *Navigation processor*



P82.86-4627-06

	Check		
1	Check control unit versions of MOST components.	Make sure that an updated replacement for the MOST components to be replaced is available in order to be able to operate the COMAND.	AN82.85-P-0003-01T
AD	Connect STAR DIAGNOSIS and read out fault memory	STAR DIAGNOSIS diagnosis system	AD00.00-P-2000-04A *WE58.40-Z-1013-06A
	Remove		
	Notes on avoiding damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
2.1	Remove all CDs from CD changer	Vehicles with CD changer (code 819).	
3	Remove all cassettes from Audio 20 CC radio		
Danger!	**Risk of explosion** caused by oxyhydrogen gas. **Risk of poisoning and caustic burns** caused by swallowing battery acid. **Risk of injury** through burns to skin and eyes from battery acid or when handling damaged lead-acid batteries	No fire, sparks, open flames or smoking. Wear acid-resistant gloves, clothing and safety glasses. Pour battery acid only into suitable and appropriately marked containers.	AS54.10-Z-0001-01A
4	Disconnect battery ground cable		
AR			AR54.10-P-0003T
	Notes on battery		AH54.10-P-0001-01A
	Notes on mat battery		AH54.10-P-0002-01A
5	Remove side paneling in trunk	Left For vehicles **without** one of the following codes: - 220, 404, 405, 433, 434, 475, 550 or 889 the trim is no longer required and replaced by a new one.	
AR		Vehicles **without** through-loading feature (code 287).	AR68.30-P-4800T
AR		Vehicles **with** through-loading feature (code 287).	AR68.30-P-4800TA
6	Remove SAM control unit with fuse and relay box in trunk	Do not disconnect electrical connectors.	
AR			AR54.21-P-1258T
7	Remove audio gateway control unit	The audio gateway control unit has to be replaced by a new one for the COMAND APS (with navigation) (code 527).	
AR	Remove audio component center		AR82.60-P-7605T

8.1 ☞AR	Remove hands-free system control unit	i Only remove the hands-free system control unit if it has an MB number, which is given in the table of the document listed in step 1. i Vehicles with preinstallation for MB phone "CTEL ", complete (code 380) or with MB "portable CTEL" in armrest (code 382).	AR82.70-P-8970T
9.1 ☞AR	Remove car interface (portable CTEL)	i Only remove the truck interface (portable CTEL) if it has an MB number, which is given in the table of the document listed in step 1. i Vehicles with preinstallation for MB phone "CTEL ", complete (code 380) or with MB "portable CTEL" in armrest (code 382).	AR82.70-P-8920T
10.1 ☞AR	Remove CD changer	i Only remove the CD changer if it has an MB number, which is given in the table of the document listed in step 1. i Vehicles with CD changer (code 819).	AR82.64-P-7508T
11 ☞AR	Remove radio	i The Audio 20 CC radio is no longer required.	AR82.60-P-7502T
12 ☞AR	Remove instrument cluster	i Vehicles **without** heat-insulating glass (code 596).	AR54.30-P-6015T
13 ☞AR	Remove front floor covering (left)	i Vehicles **without** heat-insulating glass (code 596).	AR68.20-P-2050T
14 ☞AR	Remove trim on left B-pillar	i Undo in lower area until the cable duct is accessible. i Vehicles **without** heat-insulating glass (code 596).	AR68.30-P-4700T
15.1 ☞AR	Remove rear seat cushion	i Vehicles **without** heat-insulating glass (code 596). i Vehicles **without** through-loading feature (code 287).	AR91.12-P-1020T
15.2	Unlock rear seat cushion and set to upright position	i Vehicles **without** heat-insulating glass (code 596). Vehicles **with** through-loading feature (code 287).	
16	Remove side cushion on left rear seat backrest	i Vehicles **without** heat-insulating glass (code 596).	
17	Open left wiring ducts	i Vehicles **without** heat-insulating glass (code 596).	
18.1 ☞AR	Remove antenna	i Vehicles **with** heat-insulating glass (code 596) and antenna for telephone (D- and E-networks) (code 354). Antenna is no longer required	AR82.70-P-8951TE
⛌	**Install**		
19 ☞AR	Installing antenna	i Vehicles **with** heat-insulating glass (code 596). Use new antenna for COMAND APS (with navigation) (code 527). The line clip for the GPS antenna connector (A2/49a2x1) have to be retrofitted. i On vehicles without telephone (D- and E-networks antenna (code 354), the line clip for the telephone antenna connector (A2/49a1x1) has to be retrofitted. Window cleaning agent Glass primer	AR82.70-P-8951T *BR00.45-Z-1029-04A *BR00.45-Z-1027-02A
20.1	Retrofit antenna for global positioning system (GPS)	i Vehicles **without** heat-insulating glass (code 596).	AN82.61-P-7474-04TTS
21	Install in the reverse sequence	i Steps 17 to 12 and 9.1 to 8.1.	
22 ☞AR	Install audio gateway control unit Install central audio component	i Use new audio gateway control unit for COMAND APS (with navigation) (code 527).	AR82.60-P-7605T

23	Extend fiber optic cable ring for components to be retrofitted	**Risk of breakage!** Do not kink fiber optic cable, route over sharp edges or bend in radii smaller than 25 mm. Tensile forces on inserts must not exceed 65 N. Do not squeeze fiber optic cable and do not compress with clamps or tie straps.	AN82.64-P-0001-05T
24	Retrofit wiring harness	Wiring harness for navigation processor. Vehicles **without** heat-insulating glass (code 596). Vehicles **with** heat-insulating glass (code 596).	AN82.61-P-0001-01TCC AN82.61-P-0001-01TDD
25 AR	Install SAM control unit with fuse and relay box in trunk		AR54.21-P-1258T
26	Retrofitting navigation processor in trunk	Vehicles **with one** of the following codes: - 220, 475 or 889. Vehicles **without one** of the following codes: - 220, 475 or 889.	AN82.85-P-0001-01TA AN82.85-P-0001-01TTA
27.1	Cut out side paneling in trunk	Vehicles **with one** of the following codes: - 220, 404, 405, 433, 434, 475, 550 or 889.	AN68.30-P-0002-02TA
28 AR AR	Install side paneling in left side of trunk	Vehicles **without** through-loading feature (code 287). Vehicles **with** through-loading feature (code 287).	AR68.30-P-4800T AR68.30-P-4800TA
29 AR	Install COMAND operating, display and control unit		AR82.85-P-1000T
30.1 AR	Install CD changer	Vehicles with CD changer (code 819). Only install the CD changer, if it was removed in step 10.1.	AR82.64-P-7508T
31 AR	Connect ground cable to battery		AR54.10-P-0003T
32 AR	Perform basic programming		AR00.19-P-0200T
33.1 AR	Flash MOST components Control unit flashing	Flash MOST components that do not have the latest software release. STAR DIAGNOSIS diagnosis system.	AR54.21-P-0012Y *WE58.40-Z-1013-06A
34	Perform version coding subsequently	After completing the variant coding run a quick test and clear the fault memory. STAR DIAGNOSIS diagnosis system.	AN82.61-P-0001-05TB *WE58.40-Z-1013-06A
35	Carry out function check of COMAND		
36	Add special equipment to the vehicle data card and to the online vehicle data card	Enter COMAND APS (with navigation) (code 527) and delete MB Audio 20 CC radio (code 523). Delete old radio identification code and enter new one.	

Workshop equipment/MB testers (see Workshop Equipment Manual)

WE58.40-Z-1013-06A	STAR DIAGNOSIS Compact diagnosis system for passenger cars, order number 6511 1801 00

Auxiliary repair materials

Number	Designation	Order number
BR00.45-Z-1027-02A	Glass primer	006 989 39 71
BR00.45-Z-1029-04A	Window cleaning agent	005 989 19 71

Parts ordering notes

Part no.	Designation	Quantity
B6 782 35 52	COMAND APS retrofit kit	1
A211 693 01 17	Covering for left luggage compartment (only required for vehicles **up to** chassis end number A 644804 or X170410 **with** one of the following listed codes: 220/404/405/433/434/475/550/889)	1
A211 690 01 53	Left trunk lining for vehicles **up to** chassis end number A 644804 or X170410 **with** code 287 (only required for vehicles **without** one of the following codes: 220/404/405/433/434/475/550/889)	1
A211 690 99 25	Left trunk lining for vehicles **up to** chassis end number A 644804 or X170410 **without** code 287 (only required for vehicles **without** one of the following codes: 220/404/405/433/434/475/550/889)	1

A211 690 87 53	Left trunk lining for vehicles **as of** chassis end number A 644805 or X170411 **with** code 287 (only required for vehicles **without** one of the following codes: 220/404/405/433/434/475/550/889)	1
A211 690 79 53	Left trunk lining for vehicles **as of** chassis end number A 644805 or X170411 **without** code 287 (only required for vehicles **without** one of the following codes: 220/404/405/433/434/475/550/889)	1
A211 545 63 40	Bracket (only required for vehicles **without** one of the following listed codes: 220/475/550/889)	1
N910 112 006 003	M6 nut (only required for vehicles **without** one of the following listed codes: 220/475/550/889)	1
N910 143 006 000	M6x12 bolt (only required for vehicles **without** one of the following listed codes: 220/889)	1
A211 820 35 75	GPS antenna (only required for vehicles **with** code 596)	1
A000 995 04 14	Line clip (only required for vehicles **with** code 596)	1
A000 995 04 14	Line clip (only required for vehicles **with** code 596 and **without** code 354)	1
B6 782 31 00	GPS antenna (only required for vehicles **without** code 596)	1
A211 540 10 10	GPS antenna line (only required for vehicles **without** code 596)	1
KG82 (see EPC)	Audio gateway control unit for code 527	1
KG82 (see EPC)	Hands-free system control unit (only required if it has to be replaced according to step 1)	1
KG82 (see EPC)	Truck interface portable CTEL (only required if it has to be replaced according to step 1)	1
KG82 (see EPC)	CD changer (only required if it has to be replaced according to step 1)	1
A000 983 89 10	Self-adhesive felt strip	As required
A005 997 62 90	Tie strap	As required