

BMW V48.40 Diagnostics List (Note:For reference only)

Series	Year	Chassis		SyStem	Function	
1 Series	2003 - 2012	E81/E82/E87/E88	Drive	CAS / FEM	VCDTF S12	
				DME / DDE	VCDTF S15	
				EGS / SMG	VCDTF S18	
				EKPS	VCDTF	
				GWS	VCDT	
			Chassis	ABS / ACS / DSC	VCDTF S27	
				AL / AFS / ASA	VCDT S29	
				RDC	VCDT	
				EPS	VCDTF S36	
			Body	SGM-ZGM / KGM / JBE / JBBF	VCDTF S47	
				SRS / SIM / MRS / ACSM	VCDTF S49	
				CVM / CTM	VCDT	
				CA	VCDT	
				TCU / ULF / Tel	VCDT S57	
				AMP / AMPH / AMPT	VCDTF	
				NAV	VCDT S59	
				CDC	VCDT	
				CCC-ASK	VCDT	
				DWA	VCDT S60	
				RLS / RLSS	VCDT S63	
				ANT	VCDT	
				SINE	VCDT	
				SDARS	VCDT	
				ULF-SBX-H	VCDTF	
				FZD	VCDT S71	
				DAB	VCDT	
				INSTR	VCDTF S76	
				PDC	VCDT	
				CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW	VCDTF S78	
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S79	
				CON / ZBE	VCDT	
				SMFA	VCDT S100	
				SMBF	VCDT S101	
				LM	VCDT	
				AHM	VCDT	
				FRM	VCDT S87	
				CID	VCDT	
				IHKA / IHKR	VCDT S91	
				CCC-A	VCDT	
				Coding/Program	Recoding	S1
					CKM	S2
			CBS reset		S3	
			CBS correct		S4	
			Service functions		S5,S6	
			Drive	CAS / FEM	VCDTF S13	
				DME / DDE	VCDTF S16	
				DME2	VCDTF	
				EGS / SMG	VCDTF S19	
				EKPS	VCDTF S23	
				GWS	VCDTF	

2010 -

F20/F21

Chassis	ABS / ACS / DSC	VCDTF S28
	ICM	VCDTF S31
	ACC/FRR/LRR	VCDT
	EPS	VCDTF S37
	ICMV	VCDTF S42
Body	SRS / SIM / MRS / ACSM	VCDTF S50
	TR SVC	VCDTF
	HC/SWW	VCDT S54
	ZGW	VCDTF S98
	PMA	VCDTF
	MMC	VCDTF
	TBX	VCDTF
	TCU / ULF / TEL	VCDTF
	AMP / AMPH / AMPT	VCDTF
	FZD	VCDTF S72
	KAFAS	VCDTF
	FLA	VCDTF
	IKE / KOM / KOMBI	VCDTF S77
	CBX-ECALL	VCDTF
	CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDTF S80
	PDC	VCDTF
	CON / ZBE	VCDTF
	FCON / ZBEF	VCDTF
	SMFAH	VCDTF S83
	SMBFH	VCDTF S84
	SMFA	VCDTF S81
	SMBF	VCDTF S82
	AHM	VCDTF
FRM	VCDTF S88	
CID	VCDTF	
VDC	VCDTF S89	
IHKA / IHKR	VCDTF S92	
Coding/Program	Recoding	
	CBS reset	S3
	CBS correct	S4
	Service functions	S5,S6
Drive	CAS / FEM	VCDT S13
	DME / DDE	VCDT S16
	DME2	VCDT
	EGS / SMG	VCDT S19
	EKPS	VCDT S23
	VTG/LMV	VCDT S22
	EME	VCDT
	GWS	VCDT
Chassis	SME	VCDT S45
	AL / AFS / ASA	VCDT S30
	ICM	VCDT S31
	ACC/FRR/LRR	VCDT
	RDC	VCDT
	ABS / ACS / DSC	VCDT S28
	EMF	VCDT S34
EPS	VCDT S37	

2 Series	2013 -	F22/F23	Body	EHC	VCDT S40
				ICMV	VCDT S42
				SRS / SIM / MRS / ACSM	VCDT S50
				SZL	VCDT S51
				TR SVC	VCDT
				HC / SWW	VCDT
				HKFM	VCDT
				SVT	VCDT
				GHAS	VCDT
				ZGW	VCDT S98
				PMA	VCDT
				DVDC / MMC	VCDT
				TBX	VCDT
				TCU / ULF / Tel	VCDT
				AMP / AMPH / AMPT	VCDT
				EME2	VCDT
				ASD	VCDT
				SECUR1	VCDT
				SECUR2	VCDT
				VM	VCDT
				EMALI	VCDT S69
				EMARE	VCDT S70
				CANSIN	VCDT
				FZD	VCDT S72
				KAFAS	VCDT
				FLA	VCDT
				IKE / KOM / KOMBI	VCDT S77
				CBX-ECALL	VCDT
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
				PDC	VCDT
				CON / ZBE	VCDT
				SMFAH	VCDT S83
				SMBFH	VCDT S84
			SMFA	VCDT S81	
			SMBF	VCDT S82	
			AHM	VCDT	
			FRM	VCDT S88	
			VDC	VCDT S89	
			IHKA / IHKR	VCDT S92	
			Recoding		
			CBS reset	S3	
CBS correct	S4				
Service functions	S5,S6				
Drive	CAS / FEM	VCDT S13			
	DME / DDE	VCDT S16			
	DME2	VCDT			
	EGS / SMG	VCDT S19			
	EKPS	VCDT S23			
	VTG/LMV	VCDT S22			
	EME	VCDT			
GWS	VCDT				
	SME	VCDT S45			
	AL / AFS / ASA	VCDT S30			
	ICM	VCDT S31			
	ACC/FRR/LRR	VCDT			

2013 -	F45	Chassis	RDC	VCDT
			ABS / ACS / DSC	VCDT S28
			EMF	VCDT S34
			EPS	VCDT S37
			EHC	VCDT S40
			ICMV	VCDT S42
		Body	SRS / SIM / MRS / ACSM	VCDT S50
			SZL	VCDT S51
			TR SVC	VCDT
			HC / SWW	VCDT
			HKFM	VCDT
			SVT	VCDT
			GHAS	VCDT
			ZGW	VCDT S98
			PMA	VCDT
			DVDC / MMC	VCDT
			TBX	VCDT
			TCU / ULF / Tel	VCDT
			AMP / AMPH / AMPT	VCDT
			EME2	VCDT
			ASD	VCDT
			SECUR1	VCDT
			SECUR2	VCDT
			VM	VCDT
			EMALI	VCDT S69
			EMARE	VCDT S70
			CANSIN	VCDT
			FZD	VCDT S72
			KAFAS	VCDT
			FLA	VCDT
			IKE / KOM / KOMBI	VCDT S77
			CBX-ECALL	VCDT
			CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
			PDC	VCDT
			CON / ZBE	VCDT
			SMFAH	VCDT S83
SMBFH	VCDT S84			
SMFA	VCDT S81			
SMBF	VCDT S82			
AHM	VCDT			
FRM	VCDT S88			
VDC	VCDT S89			
IHKA / IHKR	VCDT S92			
Coding/Program	Recoding			
	CBS reset	S3		
	CBS correct	S4		
	Service functions	S5,S6		
Drive	EWS	VCDT S11		
	DME / DDE	VCDT S14		
	EGS / SMG	VCDT S17		
Chassis	ABS / ACS / DSC	VCDT S26		
	EHC	VCDT S38		
	ZKE	VCDT S46		
	SRS / SIM / MRS / ACSM	VCDT		

1982-1994	E30	Body	CVM / CTM	VCDT
			DWA	VCDT
SHD	VCDT			
IKE / KOM / KOMBI	VCDT S75			
PDC	VCDT			
RAD	VCDT			
LSZ / LCM	VCDT			
IHKA / IHKR	VCDT S90			
GR	VCDT			
MID	VCDT			
ADS	VCDT			
AHK	VCDT			
EKM	VCDT			
EML	VCDT			
FHK	VCDT			
GSA	VCDT			
URS	VCDT S99			
VMX	VCDT			
VNC	VCDT			
XEN	VCDT			
SPM / SM	VCDT			
Coding/Program			Recoding	S1
			Service functions	S7
1990-2000	E36	Drive	EWS	VCDT S11
			DME / DDE	VCDT S14
			EGS / SMG	VCDT S17
		Chassis	ABS / ACS / DSC	VCDT S26
			EHC	VCDT S38
			LEW	VCDT
		Body	ZKE	VCDT S46
			SRS / SIM / MRS / ACSM	VCDT
			CVM / CTM	VCDT
			DWA	VCDT
			SHD	VCDT
			IKE / KOM / KOMBI	VCDT S75
			PDC	VCDT
			RAD	VCDT
			LSZ / LCM	VCDT
			IHKA / IHKR	VCDT S90
			GR	VCDT
			MID	VCDT
			ADS	VCDT
			AHK	VCDT
			EKM	VCDT
			EML	VCDT
			FHK	VCDT
			GSA	VCDT
			URS	VCDT S99
			VMX	VCDT
		VNC	VCDT	
		XEN	VCDT	
		SPM / SM	VCDT	
		Coding/Program		
			CKM	S2
			Service functions	S5,S7
		Drive	EWS	VCDTF S11
			DME / DDE	VCDTF S14
			EGS / SMG	VCDTF S17
		Chassis	ABS / ACS / DSC	VCDTF S26
			RDC	VCDT
			LEW	VCDT

	1998-2006	E46	Body	ZKE	VCDTF S46	
				SRS / SIM / MRS / ACSM	VCDTF	
				CVM / CTM	VCDT	
				TCU / ULF / Tel	VCDT	
				SHD	VCDT	
				MFL	VCDT	
				IKE / KOM / KOMBI	VCDTF S75	
				PDC	VCDT	
				SZM / BZM	VCDT	
				RAD	VCDT	
				LSZ / LCM	VCDT	
				SMF	VCDT	
				IHKA / IHKR	VCDT S90	
				GR	VCDT	
				BIT	VCDT S96	
				AIC	VCDT S97	
				BM	VCDT	
				URS	VCDT S99	
				SMB	VCDT	
				SPMBT	VCDT	
			SPMFT	VCDT		
			Recoding	S1		
			CKM	S2		
			Service functions	S5,S7		
	2004-2011	E90/E91/E92/E93	Drive	CAS / FEM	VCDTF S12	
				DME / DDE	VCDTF S15	
				EGS / SMG	VCDTF S18	
				VTG / LMV	VCDTF S21	
				EKPS	VCDTF	
				GWS	VCDT	
			Chassis	ABS / ACS / DSC	VCDTF S27	
				AL / AFS / ASA	VCDT S29	
				LDM	VCDT	
				RDC	VCDT	
				ACC / FRR / LRR	VCDT	
				ARS	VCDT S32	
				EMF	VCDT S33	
				EHC	VCDT S39	
				VDM	VCDT	
	EDCSVL	VCDT				
	EDCSVR	VCDT				
	EDCSHL	VCDT				
	EDCSHR	VCDT				
					SGM-ZGM / KGM / JBE / JBBF	VCDTF S47
					SRS / SIM / MRS / ACSM	VCDTF S49
					RSE	VCDT S55
					CA	VCDT
					DVDC / MMC	VCDT
					TCU / ULF / Tel	VCDT S57
					AMP / AMPH / AMPT	VCDTF
					KHI / KHM	VCDT
					NAV	VCDT S59
					CDC	VCDT
HUD					VCDT	
CCC-ASK					VCDT	
DWA					VCDT S60	
RLS / RLSS					VCDT S63	
ANT	VCDT					

3 Series

Body	VSW	VCDT	
	VM	VCDT	
	SINE	VCDT	
	IBOC	VCDT	
	SDARS	VCDT	
	ULF-SBX-H	VCDT	
	FZD	VCDT S71	
	DAB	VCDT	
	FLA	VCDT	
	INSTR	VCDTF S76	
	PDC	VCDT	
	CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW	VCDTF S78	
	CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S79	
	CON / ZBE	VCDT	
	HKL / HKFM	VCDT S85	
	SMFA	VCDT S100	
	SMBF	VCDT S101	
	LM	VCDT	
	AHM	VCDT	
	FRM	VCDT S87	
	CID	VCDT	
	FD	VCDT	
	RFK	VCDT	
	IHKA / IHKR	VCDT S91	
	FKA	VCDT S93	
	CCC-A	VCDT	
	Coding/Program	Recoding	S1
		CKM	S2
		CBS reset	S3
		CBS correct	S4
		Service functions	S5,S6
	Drive	CAS / FEM	VCDT S13
		DME / DDE	VCDT S16
DME2		VCDT	
EGS / SMG		VCDT S19	
EKPS		VCDT S23	
EME		VCDT	
GWS		VCDT	
Chassis	SME	VCDT S45	
	AL / AFS / ASA	VCDT S30	
	ICM	VCDT S31	
	ACC/FRR/LRR	VCDT	
	RDC	VCDT	
	ABS / ACS / DSC	VCDT S28	
	EMF	VCDT S34	
	EPS	VCDT S37	
	EHC	VCDT S40	
ICMV	VCDT S42		
	SRS / SIM / MRS / ACSM	VCDT S50	
	SZL	VCDT S51	
	TRSV	VCDT	
	HC / SWW	VCDT	
	SCR	VCDT	
	HKFM	VCDT	
SVT	VCDT		

	2012-	F30/F31/F35	Body	GHAS	VCDT
				ZGW	VCDT S98
				PMA	VCDT
DVDC / MMC	VCDT				
TBX	VCDT				
TCU / ULF / Tel	VCDT				
AMP / AMPH / AMPT	VCDT				
EME2	VCDT				
ASD	VCDT				
SECUR1	VCDT				
SECUR2	VCDT				
VM	VCDT				
EMALI	VCDT S69				
EMARE	VCDT S70				
CANSIN	VCDT				
FZD	VCDT S72				
KAFAS	VCDT				
FLA	VCDT				
IKE / KOM / KOMBI	VCDT S77				
CBX-ECALL	VCDT				
CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80				
PDC	VCDT				
CON / ZBE	VCDT				
SMFAH	VCDT S83				
SMBFH	VCDT S84				
SMFA	VCDT S81				
SMBF	VCDT S82				
AHM	VCDT				
FRM	VCDT S88				
VDC	VCDT S89				
IHKA / IHKR	VCDT S92				
Coding/Program	Recoding				
	CBS reset	S3			
	CBS correct	S4			
	Service functions	S5,S6			
Drive	CAS / FEM	VCDT S13			
	DME / DDE	VCDT S16			
	DME2	VCDT			
	EGS / SMG	VCDT S19			
	EKPS	VCDT S23			
	EME	VCDT			
	GWS	VCDT			
Chassis	SME	VCDT S45			
	AL / AFS / ASA	VCDT S30			
	ICM	VCDT S31			
	ACC/FRR/LRR	VCDT			
	RDC	VCDT			
	ABS / ACS / DSC	VCDT S28			
	EMF	VCDT S34			
	EPS	VCDT S37			
	EHC	VCDT S40			
	ICMV	VCDT S42			
	SRS / SIM / MRS / ACSM	VCDT S50			
	SZL	VCDT S51			

				TRSV	VCDT
				HC / SWW	VCDT
				SCR	VCDT
				HKFM	VCDT
				SVT	VCDT
				GHAS	VCDT
				ZGW	VCDT S98
				PMA	VCDT
				DVDC / MMC	VCDT
				TBX	VCDT
				TCU / ULF / Tel	VCDT
				AMP / AMPH / AMPT	VCDT
				EME2	VCDT
				ASD	VCDT
				SECUR1	VCDT
				SECUR2	VCDT
				VM	VCDT
				EMALI	VCDT S69
				EMARE	VCDT S70
				CANSIN	VCDT
				FZD	VCDT S72
				KAFAS	VCDT
				FLA	VCDT
				IKE / KOM / KOMBI	VCDT S77
				CBX-ECALL	VCDT
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
				PDC	VCDT
				CON / ZBE	VCDT
				SMFAH	VCDT S83
				SMBFH	VCDT S84
				SMFA	VCDT S81
				SMBF	VCDT S82
				AHM	VCDT
				FRM	VCDT S88
				VDC	VCDT S89
				IHKA / IHKR	VCDT S92
				Recoding	
			Coding/Program	CBS reset	S3
				CBS correct	S4
				Service functions	S5,S6
				CAS / FEM	VCDT S13
				DME / DDE	VCDT S16
				DME2	VCDT
				EGS / SMG	VCDT S19
				EKPS	VCDT S23
				VTG/LMV	VCDT S22
				EME	VCDT
				GWS	VCDT
				SME	VCDT S45
				AL / AFS / ASA	VCDT S30
				ICM	VCDT S31
				ACC/FRR/LRR	VCDT
				RDC	VCDT
				ABS / ACS / DSC	VCDT S28
				EMF	VCDT S34
				EPS	VCDT S37

4 Series	2013 -	F32/F33/F36	Body	EHC	VCDT S40
				ICMV	VCDT S42
				SRS / SIM / MRS / ACSM	VCDT S50
				SZL	VCDT S51
				TR SVC	VCDT
				HC / SWW	VCDT
				HKFM	VCDT
				SVT	VCDT
				GHAS	VCDT
				ZGW	VCDT S98
				CVM / CTM	VCDT
				PMA	VCDT
				DVDC / MMC	VCDT
				TBX	VCDT
				TCU / ULF / Tel	VCDT
				AMP / AMPH / AMPT	VCDT
				EME2	VCDT
				ASD	VCDT
				SECUR1	VCDT
				SECUR2	VCDT
				VM	VCDT
				EMALI	VCDT S69
				EMARE	VCDT S70
				CANSIN	VCDT
				FZD	VCDT S72
				KAFAS	VCDT
				FLA	VCDT
				IKE / KOM / KOMBI	VCDT S77
				CBX-ECALL	VCDT
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
				PDC	VCDT
				CON / ZBE	VCDT
				SMFAH	VCDT S83
			SMBFH	VCDT S84	
			SMFA	VCDT S81	
			SMBF	VCDT S82	
			AHM	VCDT	
			FRM	VCDT S88	
			VDC	VCDT S89	
			IHKA / IHKR	VCDT S92	
			Recoding		
CBS reset	S3				
CBS correct	S4				
Service functions	S5,S6				
Drive	CAS / FEM	VCDT S13			
	DME / DDE	VCDT S16			
	DME2	VCDT			
	EGS / SMG	VCDT S19			
	EKPS	VCDT S23			
	VTG/LMV	VCDT S22			
	EME	VCDT			
GWS	VCDT				
	SME	VCDT S45			
	AL / AFS / ASA	VCDT S30			
	ICM	VCDT S31			

			Chassis	ACC/FRR/LRR	VCDT
				RDC	VCDT
			Chassis	ABS / ACS / DSC	VCDT S28
				EMF	VCDT S34
			Chassis	EPS	VCDT S37
				EHC	VCDT S40
			Chassis	ICMV	VCDT S42
				SRS / SIM / MRS / ACSM	VCDT S50
			Body	SZL	VCDT S51
				TRSV	VCDT
			Body	HC / SWW	VCDT
				HKFM	VCDT
			Body	SVT	VCDT
				GHAS	VCDT
			Body	ZGW	VCDT S98
				CVM / CTM	VCDT
			Body	PMA	VCDT
				DVDC / MMC	VCDT
			Body	TBX	VCDT
				TCU / ULF / Tel	VCDT
			Body	AMP / AMPH / AMPT	VCDT
				EME2	VCDT
			Body	ASD	VCDT
				SECUR1	VCDT
			Body	SECUR2	VCDT
				VM	VCDT
			Body	EMALI	VCDT S69
				EMARE	VCDT S70
			Body	CANSIN	VCDT
				FZD	VCDT S72
			Body	KAFAS	VCDT
				FLA	VCDT
			Body	IKE / KOM / KOMBI	VCDT S77
				CBX-ECALL	VCDT
			Body	CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
				PDC	VCDT
			Body	CON / ZBE	VCDT
				SMFAH	VCDT S83
			Body	SMBFH	VCDT S84
				SMFA	VCDT S81
			Body	SMBF	VCDT S82
				AHM	VCDT
			Body	FRM	VCDT S88
				VDC	VCDT S89
			Body	IHKA / IHKR	VCDT S92
				Recoding	
			Coding/Program	CBS reset	S3
				CBS correct	S4
			Coding/Program	Service functions	S5,S6
				EWS	VCDT S11
			Drive	DME / DDE	VCDT S14
				EGS / SMG	VCDT S17
			Chassis	ABS / ACS / DSC	VCDT
				EHC	VCDT
			Chassis	ZKE	VCDT
				SRS / SIM / MRS / ACSM	VCDT

1982-1988	E28	Body	CVM / CTM	VCDT
			DWA	VCDT
			SHD	VCDT
			IKE / KOM / KOMBI	VCDTF S75
			PDC	VCDT
			RAD	VCDT
			LSZ / LCM	VCDT
			IHKA / IHKR	VCDT S90
			GR	VCDT
			MID	VCDT
			ADS	VCDT
			AHK	VCDT
			EKM	VCDT
			EML	VCDT
			FHK	VCDT
			GSA	VCDT
			URS	VCDT S99
			VMX	VCDT
			VNC	VCDT
			XEN	VCDT
			SPM / SM	VCDT
		Coding/Program	Recoding	S1
			Service functions	S7
1989-1996	E34	Drive	EWS	VCDT S11
			DME / DDE	VCDT S14
EGS / SMG	VCDT S17			
		Chassis	ABS / ACS / DSC	VCDT S26
			EHC	VCDT S38
		Body	ZKE	VCDT S46
			SRS / SIM / MRS / ACSM	VCDT
			CVM / CTM	VCDT
			DWA	VCDT
			SHD	VCDT
			IKE / KOM / KOMBI	VCDTF S75
			PDC	VCDT
			RAD	VCDT
			LSZ / LCM	VCDT
			IHKA / IHKR	VCDT S90
			GR	VCDT
			MID	VCDT
			ADS	VCDT
			AHK	VCDT
			EKM	VCDT
			EML	VCDT
			FHK	VCDT
			GSA	VCDT
			URS	VCDT S99
			VMX	VCDT
		VNC	VCDT	
		XEN	VCDT	
		SPM / SM	VCDT	
		Coding/Program	Recoding	S1
			Service functions	S7
		Drive	EWS	VCDTF S11
			DME / DDE	VCDTF S14
EGS / SMG			VCDTF S17	
	Chassis	ABS / ACS / DSC	VCDTF S26	
		EHC	VCDT S38	
		LEW	VCDT	
		ZKE	VCDT S46	
		SRS / SIM / MRS / ACSM	VCDT	

1997-2003

E39

Body

NAV	VCDT S58
SHD	VCDT
MFL	VCDT
IKE / KOM / KOMBI	VCDTF S75
PDC	VCDT
SZM / BZM	VCDT
RAD	VCDT
DSP	VCDT
STH	VCDT
LSZ / LCM	VCDT
IHKA / IHKR	VCDT S90
GR	VCDT
SES	VCDT
MID	VC
BIT	VCDT S96
AIC	VCDT S97
VID	VCDT
BM	VCDT
LRA	VCDT
SPM / SM	VCDT
Recoding	S1
CKM	S2
Service functions	S5,S7
CAS / FEM	VCDTF S12
DME / DDE	VCDTF S15
EGS / SMG	VCDTF S18
EKPS	VCDTF
GWS	VCDT
ABS / ACS / DSC	VCDTF S27
AL / AFS / ASA	VCDT S29
LDM	VCDT
RDC	VCDT
ACC / FRR / LRR	VCDT
ARS	VCDT S32
EHC	VCDT S39
EDC / VDC	VCDT S41
SGM-ZGM / KGM / JBE / JBBF	VCDTF S47
SRS / SIM / MRS / ACSM	VCDTF S49
SZL	VCDT
TMFA	VCDT S52
TMBF	VCDT S53
SBSL	VCDT
SBSR	VCDT
SFZ	VCDT
AHL	VCDT
CVM / CTM	VCDT
CA	VCDT
DVDC / MMC	VCDT
SVS	VCDT
TCU / ULF / Tel	VCDT S57
AMP / AMPH / AMPT	VCDTF
KHI / KHM	VCDT
NAV	VCDT S59
CDC	VCDT
HUD	VCDT
CCC-ASK	VCDT
DWA	VCDT S60
PM / MPM	VCDT S61

Coding/Program

Drive

Chassis

				EDCSVL	VCDT
				EDCSVR	VCDT
				EDCSHL	VCDT
				EDCSHR	VCDT
2009-	GT(F07)	Body		SGM-ZGM / KGM / JBE / JBBF	VCDT S48
				SRS / SIM / MRS / ACSM	VCDT S50
	SZL		VCDT S51		
	TRSVC		VCDT		
	HC / SWW		VCDT		
	SVT		VCDT		
	ZGW		VCDT S98		
	RSE		VCDT S56		
	DVDC / MMC		VCDT		
	TBX		VCDT		
	TCU / ULF / Tel		VCDT		
	AMP / AMPH / AMPT		VCDT		
	HUD		VCDT		
	VSW		VCDT		
	VM		VCDT		
	EMALI		VCDT S69		
	EMARE		VCDT S70		
	FZD		VCDT S72		
	NVE / NIVI		VCDT		
	KAFAS		VCDT		
	FLA		VCDT		
	IKE / KOM / KOMBI		VCDT S77		
	CBX-ECALL		VCDT		
	CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO		VCDT S80		
	PDC		VCDT		
	CON / ZBE		VCDT		
	SMFAH		VCDT S83		
	SMBFH		VCDT S84		
	HKL / HKFM		VCDT S86		
	SMFA		VCDT S81		
	SMBF		VCDT S82		
	AHM		VCDT		
	FRM		VCDT S88		
	CID		VCDT		
	FD / CID	VCDT			
	CIDF2	VCDT			
	VDC	VCDT S89			
	IHKA / IHKR	VCDT S92			
	FKA	VCDT			
	Recoding				
	CBS reset	S3			
	CBS correct	S4			
	Service functions	S5,S6			
		CAS / FEM	VCDT S13		
		DME / DDE	VCDT S16		
		DME2	VCDT		
		EGS / SMG	VCDT S19		
		VTG / LMV	VCDT S22		
		EKPS	VCDT S23		
		GWS	VCDT		
		EME	VCDT		
		SME	VCDT S45		

2009-

F10/F11/F18

Chassis

AL / AFS / ASA	VCDT S30
ICM	VCDT S31
ACC/FRR/LRR	VCDT
RDC	VCDT
ABS / ACS / DSC	VCDT S28
EMF	VCDT S34
HSR	VCDT S44
EPS	VCDT S37
EHC	VCDT S40
ICMV	VCDT S42
EDCSVL	VCDT
EDCSVR	VCDT
EDCSHL	VCDT
EDCSHR	VCDT
SGM-ZGM / KGM / JBE / JBBF	VCDT S48
SRS / SIM / MRS / ACSM	VCDT S50
SZL	VCDT S51
TR SVC	VCDT
HC / SWW	VCDT
SCR	VCDT
HKFM	VCDT
SVT	VCDT
GHAS	VCDT
ZGW	VCDT S98
CVM / CTM	VCDT
RSE	VCDT S56
PMA	VCDT
DVDC / MMC	VCDT
TBX	VCDT
TCU / ULF / Tel	VCDT
AMP / AMPH / AMPT	VCDT
EME2	VCDT
HUD	VCDT
ASD	VCDT
VSW	VCDT
SECUR1	VCDT
SECUR2	VCDT
VM	VCDT
EMALI	VCDT S69
EMARE	VCDT S70
CANSIN	VCDT
FZD	VCDT S72
NVE / NIVI	VCDT
KAFAS	VCDT
FLA	VCDT
IKE / KOM / KOMBI	VCDT S77
CBX-ECALL	VCDT
CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
PDC	VCDT
CON / ZBE	VCDT
FCON / ZBEF	VCDT
SMFAH	VCDT S83
SMBFH	VCDT S84
HKL / HKFM	VCDT S86
SMFA	VCDT S81
SMBF	VCDT S82

Body

				AHM	VCDT		
				FRM	VCDT S88		
				CID	VCDT		
				FD / CID	VCDT		
				CIDF2	VCDT		
				VDC	VCDT S89		
				RFK	VCDT		
				IHKA / IHKR	VCDT S92		
				FKA	VCDT		
			Coding/Program	Recoding			
				CBS reset	S3		
				CBS correct	S4		
				Service functions	S5,S6		
1980-1989	E24	Drive		EWS	VCDT S11		
				DME / DDE	VCDT S14		
		Chassis		ABS / ACS / DSC	VCDT S26		
				EHC	VCDT S38		
		Body		ZKE	VCDT S46		
				SRS / SIM / MRS / ACSM	VCDT		
				CVM / CTM	VCDT		
				DWA	VCDT		
				SHD	VCDT		
				IKE / KOM / KOMBI	VCDT		
				PDC	VCDT		
				RAD	VCDT		
				LSZ / LCM	VCDT		
				IHKA / IHKR	VCDT S90		
				GR	VCDT		
				MID	VCDT		
				ADS	VCDT		
				EKM	VCDT		
				EML	VCDT		
				URS	VCDT S99		
				VMX	VCDT		
				VNC	VCDT		
			XEN	VCDT			
			SPM / SM	VCDT			
			Coding/Program	Recoding	S1		
				Service functions	S7		
				Drive		CAS / FEM	VCDTF S12
						DME / DDE	VCDTF S15
						EGS / SMG	VCDTF S18
						EKPS	VCDTF
						GWS	VCDT
				Chassis		ABS / ACS / DSC	VCDTF S27
						AL / AFS / ASA	VCDT S29
	LDM				VCDT		
	RDC				VCDT		
	ACC / FRR / LRR				VCDT		
	ARS				VCDT S32		
	EHC				VCDT S39		
	EDC / VDC			VCDT S41			
				SGM-ZGM / KGM / JBE / JBBF	VCDTF S47		
				SRS / SIM / MRS / ACSM	VCDTF S49		
				SZL	VCDT		
				TMFA	VCDT S52		
				TMBF	VCDT S53		
		SBSL	VCDT				

6 Series	2004-2010	E63/E64	Body	SBSR	VCDT
				SFZ	VCDT
				AHL	VCDT
				CVM / CTM	VCDT
				CA	VCDT
				DVDC / MMC	VCDT
				SVS	VCDT
				TCU / ULF / Tel	VCDT S57
				AMP / AMPH / AMPT	VCDTF
				KHI / KHM	VCDT
				NAV	VCDT S59
				CDC	VCDT
				HUD	VCDT
				CCC-ASK	VCDT
				DWA	VCDT S60
				PM / MPM	VCDT S61
				SHD	VCDT S62
				RLS / RLSS	VCDT S63
				ANT	VCDT
				VM	VCDT
				SINE	VCDT
				SDARS	VCDT
				ULF-SBX-H	VCDTF
				NVE / NIVI	VCDT
				ALBFA	VCDT S73
				ALBBF	VCDT S74
				DAB	VCDT
				TLC	VCDT
				FLA	VCDT
				INSTR	VCDTF S76
				PDC	VCDT
				CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW	VCDTF S78
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S79
				SZM / BZM	VCDT
				CON / ZBE	VCDT
				HKL / HKFM	VCDT S85
				SMFA	VCDT S100
				SMBF	VCDT S101
				LM	VCDT
				AHM	VCDT
KBM	VCDT S87				
CID	VCDT				
IHKA / IHKR	VCDT S91				
SHZH	VCDT S95				
NVK	VCDT				
CCC-A	VCDT				
Recoding	S1				
CKM	S2				
CBS reset	S3				
CBS correct	S4				
Service functions	S5,S6				
Drive	CAS / FEM	VCDT S13			
	DME / DDE	VCDT S16			
	DME2	VCDT			
	EGS / SMG	VCDT S19			
	VTG / LMV	VCDT S22			

2010-

F12/F13

Chassis

Body

EKPS	VCDT S23
GWS	VCDT
EME	VCDT
SME	VCDT S45
AL / AFS / ASA	VCDT S30
ICM	VCDT S31
ACC/FRR/LRR	VCDT
RDC	VCDT
ABS / ACS / DSC	VCDT S28
EMF	VCDT S34
HSR	VCDT S44
EPS	VCDT S37
EHC	VCDT S40
ICMV	VCDT S42
EDCSVL	VCDT
EDCSVR	VCDT
EDCSHL	VCDT
EDCSHR	VCDT
SGM-ZGM / KGM / JBE / JBBF	VCDT S48
SRS / SIM / MRS / ACSM	VCDT S50
SZL	VCDT S51
TR SVC	VCDT
HC / SWW	VCDT
SCR	VCDT
HKFM	VCDT
SVT	VCDT
GHAS	VCDT
ZGW	VCDT S98
CVM / CTM	VCDT
RSE	VCDT S56
PMA	VCDT
DVDC / MMC	VCDT
TBX	VCDT
TCU / ULF / Tel	VCDT
AMP / AMPH / AMPT	VCDT
EME2	VCDT
HUD	VCDT
ASD	VCDT
VSW	VCDT
SECUR1	VCDT
SECUR2	VCDT
VM	VCDT
EMALI	VCDT S69
EMARE	VCDT S70
CANSIN	VCDT
FZD	VCDT S72
NVE / NIVI	VCDT
KAFAS	VCDT
FLA	VCDT
IKE / KOM / KOMBI	VCDT S77
CBX-ECALL	VCDT
CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
PDC	VCDT
CON / ZBE	VCDT
FCON / ZBEF	VCDT
SMFAH	VCDT S83
SMBFH	VCDT S84

				HKL / HKFM	VCDT S86		
				SMFA	VCDT S81		
				SMBF	VCDT S82		
				AHM	VCDT		
				FRM	VCDT S88		
				CID	VCDT		
				FD / CID	VCDT		
				CIDF2	VCDT		
				VDC	VCDT S89		
				RFK	VCDT		
				IHKA / IHKR	VCDT S92		
				FKA	VCDT		
			Coding/Program	Recoding			
				CBS reset	S3		
				CBS correct	S4		
				Service functions	S5,S6		
1980-1986	E23	Drive		EWS	VCDT S11		
				DME / DDE	VCDT S14		
				EGS / SMG	VCDT S17		
		Chassis		ABS / ACS / DSC	VCDT		
				EHC	VCDT		
		Body		ZKE	VCDT		
				SRS / SIM / MRS / ACSM	VCDT		
				CVM / CTM	VCDT		
				DWA	VCDT		
				SHD	VCDT		
				IKE / KOM / KOMBI	VCDT		
				PDC	VCDT		
				RAD	VCDT		
				LSZ / LCM	VCDT		
				IHKA / IHKR	VCDT S90		
				GR	VCDT		
				MID	VCDT		
				ADS	VCDT		
				AHK	VCDT		
				EKM	VCDT		
				EML	VCDT		
				FHK	VCDT		
			GSA	VCDT			
			URS	VCDT S99			
			VMX	VCDT			
			VNC	VCDT			
			XEN	VCDT			
			SPM / SM	VCDT			
			Coding/Program	Recoding	S1		
				Service functions	S7		
		1987-1989	E32	Drive		EWS	VCDT S11
						DME / DDE	VCDT S14
						EGS / SMG	VCDT S17
Chassis				ABS / ACS / DSC	VCDT S26		
				EHC	VCDT S38		
				ZKE	VCDT S46		
				SRS / SIM / MRS / ACSM	VCDT		
				CVM / CTM	VCDT		
				DWA	VCDT		
				SHD	VCDT		
				IKE / KOM / KOMBI	VCDTF S75		
				PDC	VCDT		
				RAD	VCDT		
	LSZ / LCM			VCDT			

			Body	IHKA / IHKR	VCDT S90
				GR	VCDT
MID	VCDT				
ADS	VCDT				
AHK	VCDT				
EKM	VCDT				
EML	VCDT				
FHK	VCDT				
GSA	VCDT				
URS	VCDT S99				
VMX	VCDT				
VNC	VCDT				
XEN	VCDT				
SPM / SM	VCDT				
Coding/Program	Recoding	S1			
	Service functions	S7			
1995-2001	E38	Drive	EWS	VCDTF S11	
			DME / DDE	VCDTF S14	
			EGS / SMG	VCDTF S17	
		Chassis	ABS / ACS / DSC	VCDTF S26	
			EHC	VCDT S38	
			LEW	VCDT	
		Body	ZKE	VCDT S46	
			SRS / SIM / MRS / ACSM	VCDTF	
			NAV	VCDT S58	
			SHD	VCDT	
			MFL	VCDT	
			IKE / KOM / KOMBI	VCDTF S75	
			PDC	VCDT	
			SZM / BZM	VCDT	
			RAD	VCDT	
			DSP	VCDT	
			STH	VCDT	
			LSZ / LCM	VCDT	
SMF	VCDT				
IHKA / IHKR	VCDT S90				
GR	VCDT				
SES	VCDT				
MID	VCDT				
BIT	VCDT S96				
AIC	VCDT S97				
VID	VCDT				
BM	VCDT				
EML	VCDT				
SPM / SM	VCDT				
Coding/Program	Recoding	S1			
	CKM	S2			
	Service functions	S5,S7			
Drive	CAS / FEM	VCDTF S12			
	DME / DDE	VCDTF S15			
	DME2	VCDT			
	EGS / SMG	VCDTF S18			
	EKPS	VCDTF			
	VTC	VCDT			
	VTC2	VCDT			
Chassis	ABS / ACS / DSC	VCDTF S27			
	RDC	VCDT			
	ACC / FRR / LRR	VCDT			
	ARS	VCDT S32			
EMF	VCDT S33				

7 Series

2002-2008

E65/E66

Body

EHC	VCDT S39
EDC / VDC	VCDT S41
CIM	VCDT S43
SGM-ZGM / KGM / JBE / JBBF	VCDTF S47
SRS / SIM / MRS / ACSM	VCDTF S49
SASL	VCDT
SASR	VCDT
STVL / CDM	VCDT
STVR	VCDT
SSFA	VCDT
SSBF	VCDT
SBSL	VCDT
SBSR	VCDT
SSH / HKFM	VCDT
SFZ	VCDT
CEM	VCDT
AHL	VCDT
CA	VCDT
DVDC / MMC	VCDT
SG-FD-GW	VCDT
SG-FD	VCDT
SVS	VCDT
TCU / ULF / Tel	VCDT S57
AMP / AMPH / AMPT	VCDTF
KHI / KHM	VCDT
NAV	VCDT S59
CDC	VCDT
CCC-ASK	VCDT
DWA	VCDT S60
PM / MPM	VCDT S61
SHD	VCDT S62
RLS / RLSS	VCDT S63
WIM	VCDT S64
ANT	VCDT
VM	VCDT
SEC	VCDT
TMFAT	VCDT S65
TMBFT	VCDT S66
TMFAH	VCDT S67
TMBFH	VCDT S68
SINE	VCDT
IBOC	VCDT
SDARS	VCDT
NVE / NIVI	VCDT
DAB	VCDT
FLA	VCDT
INSTR	VCDTF S76
PDC	VCDT
FBI	VCDT
CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW	VCDTF S78
CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S79
SZM / BZM	VCDT
FBZM	VCDT
CON / ZBE	VCDT
FCON / ZBEF	VCDT
SMFAH	VCDT
SMBFH	VCDT

			HKL / HKFM	VCDT S85
			SMFA	VCDT S100
			SMBF	VCDT S101
			LM	VCDT
			AHM	VCDT
			FD	VCDT
			IHKA / IHKR	VCDT S91
			FKA	VCDT S93
			SHZH	VCDT S95
			NVK	VCDT
		Coding/Program	Recoding	S1
			CKM	S2
			CBS reset	S3
			CBS correct	S4
			Service functions	S5,S6
		Drive	CAS / FEM	VCDTF S13
			DME / DDE	VCDTF S16
			DME2	VCDTF
			EGS / SMG	VCDTF S19
			VTG / LMV	VCDTF S22
			EKPS	VCDTF S23
			GWS	VCDT
		EME	VCDT S25	
		Chassis	SME	VCDTF S45
			AL / AFS / ASA	VCDTF S30
			ICM	VCDTF S31
			ACC/FRR/LRR	VCDTF
			RDC	VCDTF
			ABS / ACS / DSC	VCDTF S28
			EMF	VCDTF S34
			HSR	VCDTF S44
			EPS	VCDTF S37
			EHC	VCDTF S40
			ICMV	VCDTF S42
			EDCSVL	VCDTF
			EDCSVR	VCDTF
		EDCSHL	VCDTF	
		EDCSHR	VCDTF	
			SGM-ZGM / KGM / JBE / JBBF	VCDTF S48
			SRS / SIM / MRS / ACSM	VCDTF S50
			SZL	VCDTF S51
			TRSV C	VCDTF
			HC / SWW	VCDTF
			SCR	VCDTF
			HKFM	VCDTF
			SVT	VCDTF
			GHAS	VCDTF
			ZGW	VCDTF S98
			CVM / CTM	VCDTF
			RSE	VCDTF S56
			PMA	VCDTF
			DVDC / MMC	VCDTF
		TBX	VCDTF	
		TCU / ULF / Tel	VCDTF	
		AMP / AMPH / AMPT	VCDTF	

	2008-	F01/F01/F03/F04	
8 Series	1989-1999	E31	

Body	EME2	VCDTF
	HUD	VCDTF
	ASD	VCDTF
	STML	VCDTF
	STMR	VCDTF
	LHML	VCDTF
	LHMR	VCDTF
	GZAL	VCDTF
	GZAR	VCDTF
	VSW	VCDTF
	SECUR1	VCDTF
	SECUR2	VCDTF
	VM	VCDTF
	EMALI	VCDTF S69
	EMARE	VCDTF S70
	CANSIN	VCDTF
	FZD	VCDTF S72
	NVE / NIVI	VCDTF
	KAFAS	VCDTF
	FLA	VCDTF
	IKE / KOM / KOMBI	VCDTF S77
	CBX-ECALL	VCDT
	CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDTF S80
	PDC	VCDTF
	CON / ZBE	VCDTF
	FCON / ZBEF	VCDTF
	SMFAH	VCDTF S83
	SMBFH	VCDTF S84
	HKL / HKFM	VCDTF S86
	SMFA	VCDTF S81
	SMBF	VCDTF S82
	AHM	VCDTF
	FRM	VCDTF S88
	CID	VCDTF
	FD / CID	VCDTF
CIDF2	VCDTF	
VDC	VCDTF S89	
RFK	VCDTF	
IHKA / IHKR	VCDTF S92	
FKA	VCDTF	
HKA	VCDTF S94	
Coding/Program	Recoding	
	CBS reset	S3
	CBS correct	S4
	Service functions	S5,S6
Drive	EWS	VCDT S11
	DME / DDE	VCDT S14
	EGS / SMG	VCDT S17
Chassis	ABS / ACS / DSC	VCDT
	EHC	VCDT
	ZKE	VCDT S46
	SRS / SIM / MRS / ACSM	VCDT
	CVM / CTM	VCDT
	DWA	VCDT
	SHD	VCDT
	IKE / KOM / KOMBI	VCDT
	PDC	VCDT
	RAD	VCDT
	LSZ / LCM	VCDT

			Body	IHKA / IHKR	VCDT S90
				GR	VCDT
				MID	VCDT
				EKM	VCDT
				EML	VCDT
				FHK	VCDT
				URS	VCDT S99
				VMX	VCDT
				VNC	VCDT
				XEN	VCDT
				SPM / SM	VCDT
			Coding/Program	Recoding	S1
				Service functions	S7
			Drive	CAS / FEM	VCDTF S12
				DME / DDE	VCDTF S15
				EGS / SMG	VCDTF S18
				EKPS	VCDTF
				GWS	VCDT
			Chassis	ABS / ACS / DSC	VCDTF S27
				RDC	VCDT
				ACC / FRR / LRR	VCDT
				EPS	VCDTF S36
				EHC	VCDT S39
				EDC / VDC	VCDT S41
			Body	SGM-ZGM / KGM / JBE / JBBF	VCDTF S47
				SRS / SIM / MRS / ACSM	VCDTF S49
				CVM / CTM	VCDT
				CA	VCDT
				DVDC / MMC	VCDT
				TCU / ULF / Tel	VCDT S57
				AMP / AMPH / AMPT	VCDTF
				NAV	VCDT S59
				CDC	VCDT
				CCC-ASK	VCDT
				DWA	VCDT S60
				RLS / RLSS	VCDT S63
				VM	VCDT
				SINE	VCDT
				ULF-SBX-H	VCDTF
				FZD	VCDT S71
				DAB	VCDT
				FLA	VCDT
				INSTR	VCDTF S76
				PDC	VCDT
				CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW	VCDTF S78
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S79
				CON / ZBE	VCDT
				SMFA	VCDT S100
				SMBF	VCDT S101
				LM	VCDT
				FRM	VCDT S87
				CID	VCDT
				IHKA / IHKR	VCDT S91
				Recoding	S1
				CKM	S2

2009-

X1-E84

			Coding/Program	CBS reset	S3
				CBS correct	S4
				Service functions	S5,S6
			Drive	CAS / FEM	VCDT S13
				DME / DDE	VCDT S16
				DME2	VCDT
				EGS / SMG	VCDT S19
				EKPS	VCDT S23
				GWS	VCDT
				Chassis	ABS / ACS / DSC
			ICM		VCDT S31
			EMF		VCDT S34
			EPS		VCDT S37
			ICMV		VCDT S42
			Body	SGM-ZGM / KGM / JBE / JBBF	VCDT S48
				SRS / SIM / MRS / ACSM	VCDT S50
				SZL	VCDT S51
				TR SVC	VCDT
				AMP / AMPH / AMPT	VCDT
				FZD	VCDT S72
				KAFAS	VCDT
				FLA	VCDT
				IKE / KOM / KOMBI	VCDT S77
				PDC	VCDT
				CBX-ECALL	VCDT
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
				CON / ZBE	VCDT
				SMFAH	VCDT S83
				SMBFH	VCDT S84
				SMFA	VCDT S82
				SMBF	VCDT S81
				AHM	VCDT
				FRM	VCDT S88
				CID	VCDT
				FD	VCDT
				VDC	VCDT S89
				IHKA / IHKR	VCDT S92
				FKA	VCDT S94
				PMA	VCDT
				ZGW	VCDT S98
				ASD	VCDT
				TBX	VCDT
				STML	VCDT
				STMR	VCDT
				LHML	VCDT
				LHMR	VCDT
			GZAL	VCDT	
			GZAR	VCDT	
			Coding/Program	Recoding	
				CBS reset	S3
				CBS correct	S4
				Service functions	S5,S6
				EWS	VCDT S11
				DME / DDE	VCDT S14
2013-	X4-F26				

2003-2010

X3-E83

Drive	EGS / SMG	VCDT S17
	VTG / LMV	VCDT S20
	EKPS	VCDT
Chassis	ABS / ACS / DSC	VCDT S26
	LEW	VCDT
Body	ZKE	VCDT S46
	SRS / SIM / MRS / ACSM	VCDT
	NAV	VCDT S58
	SHD	VCDT
	MFL	VCDT
	IKE / KOM / KOMBI	VCDTF S75
	PDC	VCDT
	RAD	VCDT
	DSP	VCDT
	LSZ / LCM	VCDT
	SMF	VCDT
	CID	VCDT
	IHKA / IHR	VCDT S90
	BIT	VCDT S96
	AIC	VCDT S97
VID	VCDT	
Coding/Program	Recoding	S1
	CKM	S2
	Service functions	S5,S7

2010-

X3-F25

Drive	CAS / FEM	VCDT S13
	DME / DDE	VCDT S16
	DME2	VCDT
	EGS / SMG	VCDT S19
	VTG / LMV	VCDT S22
	EKPS	VCDT S23
	GWS	VCDT
Chassis	ICM	VCDT S31
	ACC/FRR/LRR	VCDT
	RDC	VCDT
	ABS / ACS / DSC	VCDT S28
	EMF	VCDT S34
	EPS	VCDT S37
	ICMV	VCDT S42
Body	SGM-ZGM / KGM / JBE / JBBF	VCDT S48
	SRS / SIM / MRS / ACSM	VCDT S50
	SZL	VCDT S51
	TRSV	VCDT
	HC / SWW	VCDT
	HKFM	VCDT
	GHAS	VCDT
	ZGW	VCDT S98
	DVDC / MMC	VCDT
	TBX	VCDT
	TCU / ULF / Tel	VCDT
	AMP / AMPH / AMPT	VCDT
	HUD	VCDT
	VM	VCDT
	FZD	VCDT S72
KAFAS	VCDT	
FLA	VCDT	
IKE / KOM / KOMBI	VCDT S77	

				CBX-ECALL	VCDT
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S80
				PDC	VCDT
				CON / ZBE	VCDT
				SMFAH	VCDT S83
				SMBFH	VCDT S84
				HKL / HKFM	VCDT S86
				SMFA	VCDT S81
				SMBF	VCDT S82
				AHM	VCDT
				FRM	VCDT S88
				CID	VCDT
				VDC	VCDT S89
				IHKA / IHKR	VCDT S92
			Coding/Program	Recoding	
				CBS reset	S3
				CBS correct	S4
				Service functions	S5,S6
1998-2006	X5-E53	Drive		EWS	VCDTF S11
				DME / DDE	VCDTF S14
				EGS / SMG	VCDTF S17
		Chassis		ABS / ACS / DSC	VCDTF S26
				RDC	VCDT
				EHC	VCDT S38
				LEW	VCDT
		Body		ZKE	VCDT S46
				SRS / SIM / MRS / ACSM	VCDTF
				NAV	VCDT S58
				SHD	VCDT
				MFL	VCDT
				IKE / KOM / KOMBI	VCDTF S75
				PDC	VCDT
				SZM / BZM	VCDT
				RAD	VCDT
				DSP	VCDT
				STH	VCDT
				LSZ / LCM	VCDT
				SMF	VCDT
				IHKA / IHKR	VCDT S90
				GR	VCDT
				SES	VCDT
				BIT	VCDT S96
				AIC	VCDT S97
				VID	VCDT
				BM	VCDT
			SPM / SM	VCDT	
			Coding/Program	Recoding	S1
				CKM	S2
				Service functions	S5,S7
			Drive		CAS / FEM
		DME / DDE		VCDTF S15	
		EGS / SMG		VCDTF S18	
		VTG / LMV		VCDTF S21	
		EKPS		VCDTF	
		VTC		VCDT	
		VTC2	VCDT		

X Series	2007-	X5-E70	Chassis	GWS	VCDT
				QMVH	VCDT
				ABS / ACS / DSC	VCDTF S27
				AL / AFS / ASA	VCDT S29
				RDC	VCDT
				ARS	VCDT S32
				EMF	VCDT S33
				EHC	VCDT S39
				VDM	VCDT
				EDCSVL	VCDT
				EDCSVR	VCDT
				EDCSHL	VCDT
			EDCSHR	VCDT	
			Body	SGM-ZGM / KGM / JBE / JBBF	VCDTF S47
				SRS / SIM / MRS / ACSM	VCDTF S49
				RSE	VCDT S55
				CA	VCDT
				DVDC / MMC	VCDT
				TCU / ULF / Tel	VCDT S57
				AMP / AMPH / AMPT	VCDTF
				KHI / KHM	VCDT
				NAV	VCDT S59
				CDC	VCDT
				HUD	VCDT
				CCC-ASK	VCDT
				RLS / RLSS	VCDT S63
				ANT	VCDT
				VSW	VCDT
				VM	VCDT
				SINE	VCDT
				IBOC	VCDT
				SDARS	VCDT
				ULF-SBX-H	VCDTF
				FZD	VCDT S71
				DAB	VCDT
				FLA	VCDT
				INSTR	VCDTF S76
				PDC	VCDT
				CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW	VCDTF S78
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S79
				CON / ZBE	VCDT
				HKL / HKFM	VCDT S85
SMFA	VCDT S100				
SMBF	VCDT S101				
AHM	VCDT				
FRM	VCDT S87				
CID	VCDT				
FD	VCDT				
RFK	VCDT				
IHKA / IHKR	VCDT S91				
FKA	VCDT S93				
CCC-A	VCDT				
Coding/Program	Recording	S1			
	CBS reset	S3			
	CBS correct	S4			
	Service functions	S5,S6			

2013-	X5-F15	Drive	CAS / FEM	VCDT S13
			DME / DDE	VCDT S16
			DME2	VCDT
			EGS / SMG	VCDT S19
			EKPS	VCDT S23
			VTG/LMV	VCDT S22
			EME	VCDT
			QMVH	VCDT
			GWS	VCDT
		Chassis	SME	VCDT S45
			AL / AFS / ASA	VCDT S30
			ICM	VCDT S31
			ACC/FRR/LRR	VCDT
			RDC	VCDT
			ABS / ACS / DSC	VCDT S28
			EMF	VCDT S34
			EPS	VCDT S37
			EHC	VCDT S40
		Body	ICMV	VCDT S42
			SGM-ZGM / KGM / JBE / JBBF	VCDT S48
			SRS / SIM / MRS / ACSM	VCDT S50
			SZL	VCDT S51
			TR SVC	VCDT
			HC / SWW	VCDT
			HKFM	VCDT
			SVT	VCDT
			ZGW	VCDT S98
			RSE	VCDT S56
			PMA	VCDT
			DVDC / MMC	VCDT
			TBX	VCDT
			TCU / ULF / Tel	VCDT
			AMP / AMPH / AMPT	VCDT
			EME2	VCDT
			HUD	VCDT
			ASD	VCDT
			STML	VCDT
			STMR	VCDT
			SECUR1	VCDT
			SECUR2	VCDT
			VM	VCDT
			EMALI	VCDT S69
			EMARE	VCDT S70
			FZD	VCDT S72
			NVE / NIVI	VCDT
			KAFAS	VCDT
FLA	VCDT			
IKE / KOM / KOMBI	VCDT S77			
CBX-ECALL	VCDT			
CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80			
PDC	VCDT			
CON / ZBE	VCDT			
SMFAH	VCDT S83			
SMBFH	VCDT S84			

				HKL / HKFM	VCDT S86
				SMFA	VCDT S81
				SMBF	VCDT S82
				AHM	VCDT
				FRM	VCDT S88
				CID	VCDT
				VDC	VCDT S89
				IHKA / IHKR	VCDT S92
				FKA	VCDT
			Coding/Program	Recoding	
				CBS reset	S3
				CBS correct	S4
				Service functions	S5,S6
		Drive		CAS / FEM	VCDTF S12
				DME / DDE	VCDTF S15
				EGS / SMG	VCDTF S18
				VTG / LMV	VCDTF S21
				EKPS	VCDTF
				VTC	VCDT
				VTC2	VCDT
				GWS	VCDT
		Chassis		QMVH	VCDT S24
				ABS / ACS / DSC	VCDTF S27
				AL / AFS / ASA	VCDT S29
				RDC	VCDT
				ARS	VCDT S32
				EMF	VCDT S33
				EHC	VCDT S39
				VDM	VCDT
				EDCSVL	VCDT
				EDCSVR	VCDT
			EDCSHL	VCDT	
			EDCSHR	VCDT	
		Body		SGM-ZGM / KGM / JBE / JBBF	VCDTF S47
				SRS / SIM / MRS / ACSM	VCDTF S49
				RSE	VCDT S55
				CA	VCDT
				DVDC / MMC	VCDT
				TCU / ULF / Tel	VCDT S57
				AMP / AMPH / AMPT	VCDTF
				KHI / KHM	VCDT
				NAV	VCDT S59
				CDC	VCDT
				HUD	VCDT
				CCC-ASK	VCDT
				RLS / RLSS	VCDT S63
				ANT	VCDT
				VSW	VCDT
				VM	VCDT
				SINE	VCDT
				IBOC	VCDT
				SDARS	VCDT
				ULF-SBX-H	VCDTF
			FZD	VCDT S71	
			DAB	VCDT	
			FLA	VCDT	

2008-

X6-E71

			INSTR	VCDTF S76
			PDC	VCDT
			CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW	VCDTF S78
			CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S79
			CON / ZBE	VCDT
			HKL / HKFM	VCDT S85
			SMFA	VCDT S100
			SMBF	VCDT S101
			AHM	VCDT
			FRM	VCDT S87
			CID	VCDT
			FD	VCDT
			RFK	VCDT
			IHKA / IHKR	VCDT S91
			FKA	VCDT S93
			CCC-A	VCDT
		Coding/Program	Recoding	S1
			CBS reset	S3
			CBS correct	S4
			Service functions	S5,S6
		Drive	CAS / FEM	VCDTF S12
			DME / DDE	VCDTF S15
			EGS / SMG	VCDTF S18
			VTG / LMV	VCDTF S21
			EKPS	VCDT
			VTC	VCDT
			VTC2	VCDT
			GWS	VCDT
			QMVH	VCDT
		Chassis	ABS / ACS / DSC	VCDTF S27
			AL / AFS / ASA	VCDT S29
			RDC	VCDT
			ARS	VCDT S32
			EMF	VCDT S33
			EHC	VCDT S39
			VDM	VCDT
			EDCSVL	VCDT
			EDCSVR	VCDT
			EDCSHL	VCDT
			EDCSHR	VCDT
			SGM-ZGM / KGM / JBE / JBBF	VCDTF S47
			SRS / SIM / MRS / ACSM	VCDTF S49
			RSE	VCDT S55
			CA	VCDT
			DVDC / MMC	VCDT
			TCU / ULF / Tel	VCDT S57
			AMP / AMPH / AMPT	VCDTF
			KHI / KHM	VCDT
			NAV	VCDT S59
			CDC	VCDT
			HUD	VCDT
			CCC-ASK	VCDT
			RLS / RLSS	VCDT S63
			ANT	VCDT

2009-

X6-E72

		VSW	VCDT
		VM	VCDT
		SINE	VCDT
		IBOC	VCDT
		SDARS	VCDT
		ULF-SBX-H	VCDT
		FZD	VCDT S71
		DAB	VCDT
		FLA	VCDT
		INSTR	VCDTF S76
		PDC	VCDT
		CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW	VCDTF S78
		CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S79
		CON / ZBE	VCDT
		HKL / HKFM	VCDT S85
		SMFA	VCDT S100
		SMBF	VCDT S101
		AHM	VCDT
		FRM	VCDT S87
		CID	VCDT
		FD	VCDT
		RFK	VCDT
		IHKA / IHKR	VCDT S91
		FKA	VCDT S93
		CCC-A	VCDT
		Recoding	S1
		CBS reset	S3
		CBS correct	S4
		Service functions	S5,S6
		CAS / FEM	VCDT S13
		DME / DDE	VCDT S16
		DME2	VCDT
		EGS / SMG	VCDT S19
		EKPS	VCDT S23
		VTG/LMV	VCDT S22
		EME	VCDT
		GWS	VCDT
		SME	VCDT S45
		AL / AFS / ASA	VCDT S30
		ICM	VCDT S31
		ACC/FRR/LRR	VCDT
		RDC	VCDT
		ABS / ACS / DSC	VCDT S28
		EMF	VCDT S34
		EPS	VCDT S37
		EHC	VCDT S40
		ICMV	VCDT S42
		SGM-ZGM / KGM / JBE / JBBF	VCDT S48
		SRS / SIM / MRS / ACSM	VCDT S50
		SZL	VCDT S51
		TR SVC	VCDT
		HC / SWW	VCDT
		HKFM	VCDT

				SVT	VCDT
				ZGW	VCDT S98
				RSE	VCDT S56
				PMA	VCDT
				DVDC / MMC	VCDT
				TBX	VCDT
				TCU / ULF / Tel	VCDT
				AMP / AMPH / AMPT	VCDT
				EME2	VCDT
				HUD	VCDT
				ASD	VCDT
				STML	VCDT
				STMR	VCDT
				SECUR1	VCDT
				SECUR2	VCDT
				VM	VCDT
				EMALI	VCDT S69
				EMARE	VCDT S70
				FZD	VCDT S72
				NVE / NIVI	VCDT
				KAFAS	VCDT
				FLA	VCDT
				IKE / KOM / KOMBI	VCDT S77
				CBX-ECALL	VCDT
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
				PDC	VCDT
				CON / ZBE	VCDT
				SMFAH	VCDT S83
				SMBFH	VCDT S84
				HKL / HKFM	VCDT S86
				SMFA	VCDT S81
				SMBF	VCDT S82
				AHM	VCDT
				FRM	VCDT S88
				CID	VCDT
				VDC	VCDT S89
				IHKA / IHKR	VCDT S92
				FKA	VCDT
				Recoding	
			Coding/Program	CBS reset	S3
				CBS correct	S4
				Service functions	S5,S6
				EWS	VCDT S11
			Drive	DME / DDE	VCDT S14
				EGS / SMG	VCDT S17
			Chassis	ABS / ACS / DSC	VCDT
				EHC	VCDT
				ZKE	VCDT
				SRS / SIM / MRS / ACSM	VCDT
				CVM / CTM	VCDT
				DWA	VCDT
				SHD	VCDT
				IKE / KOM / KOMBI	VCDT
				PDC	VCDT
				RAD	VCDT
				LSZ / LCM	VCDT
				IHKA / IHKR	VCDT S90
				GR	VCDT
			Body	MID	VCDT
2013-	X6-F16/F86		Body		
1988-1989	Z1-E30				

			ADS	VCDT		
			AHK	VCDT		
			EKM	VCDT		
			EML	VCDT		
			FHK	VCDT		
			GSA	VCDT		
			URS	VCDT S99		
			VMX	VCDT		
			VNC	VCDT		
			XEN	VCDT		
			SPM / SM	VCDT		
		Coding/Program	Recoding	S1		
			Service functions	S7		
1996-2002	Z3-E36	Drive	EWS	VCDT S11		
			DME / DDE	VCDT S14		
			EGS / SMG	VCDT S17		
		Chassis	ABS / ACS / DSC	VCDT S26		
			EHC	VCDT S38		
		Body	ZKE	VCDT S46		
			SRS / SIM / MRS / ACSM	VCDT		
			CVM / CTM	VCDT		
			DWA	VCDT		
			SHD	VCDT		
			IKE / KOM / KOMBI	VCDTF S75		
			PDC	VCDT		
			RAD	VCDT		
			LSZ / LCM	VCDT		
			IHKA / IHKR	VCDT S90		
			GR	VCDT		
			MID	VCDT		
			ADS	VCDT		
			AHK	VCDT		
			EKM	VCDT		
			EML	VCDT		
			FHK	VCDT		
			GSA	VCDT		
			URS	VCDT S99		
			VMX	VCDT		
		VNC	VCDT			
		XEN	VCDT			
		SPM / SM	VCDT			
		Coding/Program	Recoding	S1		
			CKM	S2		
			Service functions	S5,S7		
		2000-2003	Z8-E52	Drive	EWS	VCDT S11
					DME / DDE	VCDT S14
EGS / SMG	VCDT S17					
Chassis	ABS / ACS / DSC			VCDT S26		
	RDC			VCDT		
	LEW			VCDT		
Body	ZKE			VCDT S46		
	SRS / SIM / MRS / ACSM			VCDT		
	IKE / KOM / KOMBI			VCDTF S75		
	RAD			VCDT		
	IHKA / IHKR			VCDT S90		
URS	VCDT S99					
Coding/Program	Recoding	S1				
	Service functions	S7				
	EWS	VCDT S11				

Z Series	2003-2008	Z4-E85/E86	Drive	DME / DDE	VCDT S14
				EGS / SMG	VCDT S17
			Chassis	EKPS	VCDTF
				ABS / ACS / DSC	VCDTF S26
			Body	EPS	VCDT
				LEW	VCDT
			Coding/Program	ZKE	VCDT S46
				SRS / SIM / MRS / ACSM	VCDTF
			Drive	STVL / CDM	VCDT
				STVR	VCDT
			Chassis	SBSL	VCDT
				SBSR	VCDT
			Body	CVM / CTM	VCDT
				IKE / KOM / KOMBI	VCDTF S75
			Coding/Program	PDC	VCDT
				SZM / BZM	VCDT
			Drive	RAD	VCDT
				DSP	VCDT
			Chassis	LSZ / LCM	VCDT
				SMF	VCDT
			Body	CID	VCDT
				IHKA / IHKR	VCDT S90
			Coding/Program	NAJ	VCDT
				BIT	VCDT S96
			Drive	AIC	VCDT S97
				VID	VCDT
			Chassis	Recoding	S1
				CKM	S2
			Body	Service functions	S5, S7
				CAS / FEM	VCDTF S12
			Drive	DME / DDE	VCDTF S15
				EGS / SMG	VCDTF S18
			Chassis	EKPS	VCDTF
				GWS	VCDT
			Body	ABS / ACS / DSC	VCDTF S27
				RDC	VCDT
			Coding/Program	ACC / FRR / LRR	VCDT
				EMF	VCDT S33
			Drive	EPS	VCDTF S36
				EDC / VDC	VCDT S41
			Chassis	SGM-ZGM / KGM / JBE / JBBF	VCDTF S47
				SRS / SIM / MRS / ACSM	VCDTF S49
			Body	CVM / CTM	VCDT
				CA	VCDT
			Coding/Program	DVDC / MMC	VCDT
				TCU / ULF / Tel	VCDT S57
			Drive	AMP / AMPH / AMPT	VCDTF
				NAV	VCDT S59
			Chassis	CDC	VCDT
				CCC-ASK	VCDT
			Body	DWA	VCDT S60
				RLS / RLSS	VCDT S63
			Coding/Program	VM	VCDT
				SINE	VCDT
			Drive	ULF-SBX-H	VCDTF
				FZD	VCDT S71
			Chassis	DAB	VCDT
				FLA	VCDT

				INSTR	VCDTF S76
				PDC	VCDT
				CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW	VCDTF S78
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S79
				CON / ZBE	VCDT
				SMFA	VCDT S100
				LM	VCDT
				FRM	VCDT S87
				CID	VCDT
				IHKA / IHKR	VCDT S91
			Coding/Program	Recoding	S1
				CKM	S2
				CBS reset	S3
				CBS correct	S4
				Service functions	S5,S6
			Drive	CAS / FEM	VCDT S13
				DME / DDE	VCDT S16
				DME2	VCDT
				EGS / SMG	VCDT S19
				EME	VCDT
				GWS	VCDT
			Chassis	SME	VCDT S45
				ABS / ACS / DSC	VCDT S28
				EMF	VCDT S34
				EPS	VCDT S37
			Body	SRS / SIM / MRS / ACSM	VCDT S50
				ZGW	VCDT S98
				PMA	VCDT
				TBX	VCDT
				AMP / AMPH / AMPT	VCDT
				EME2	VCDT
				ASD	VCDT
				FZD	VCDT S72
				KAFAS	VCDT
				IKE / KOM / KOMBI	VCDT S77
				CBX-ECALL	VCDT
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO	VCDT S80
				PDC	VCDT
			CON / ZBE	VCDT	
			IHKA / IHKR	VCDT S92	
			Coding/Program	Recoding	
				CBS reset	S3
				CBS correct	S4
				Service functions	S5,S6
			Drive	EWS	VCDT S11
				DME	VCDT
				DDE	VCDTF S14
				EGS / SMG	VCDT S17
			Chassis	ABS / ACS / DSC	VCDTF S26
				RDC	VCDT
				EHPS	VCDT S35
				LEW	VCDT
				ZKE	VCDT S46

MINI	2000-2008	R50/R52/R53	Body	SRS / SIM / MRS / ACSM	VCDTF
				STVL / CDM	VCDT
				STVR	VCDT
				CVM / CTM	VCDT
				SHD	VCDT
				IKE / KOM / KOMBI	VCDTF S75
				PDC	VCDT
				RAD	VCDT
				LSZ / LCM	VCDT
				IHKA / IHKR	VCDT S90
				AIC	VCDT S97
				BM	VCDT
	URS	VCDT S99			
	Coding/Program	Recoding	S1		
		CKM	S2		
		Service functions	S5,S7		
	2006-	56/R57/R58/R59/R60	Drive	CAS / FEM	VCDTF S12
				DME / DDE	VCDTF S15
				EGS / SMG	VCDTF S18
	Chassis	ABS / ACS / DSC	VCDTF S27		
		EPS	VCDT S36		
		RDC	VCDT		
	Body	SGM-ZGM / KGM / JBE / JBBF	VCDTF S47		
		SRS / SIM / MRS / ACSM	VCDTF S49		
		SZL	VCDT		
		CVM / CTM	VCDT		
		CA	VCDT		
		AMP / AMPH / AMPT	VCDTF		
		NAV	VCDT S59		
		CDC	VCDT		
CCC-ASK		VCDT			
SHD		VCDT S62			
ANT		VCDT			
VM		VCDT			
IBOC		VCDT			
SDARS		VCDT			
ULF-SBX-H		VCDTF			
DAB		VCDT			
INSTR		VCDTF S76			
PDC		VCDT			
CD-GW / M-ASK-GW / CCC-GW / CHAMP-GW / RAD2-GW / CIC-GW		VCDTF S78			
CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO		VCDT S79			
AHM		VCDT			
FRM		VCDT S87			
CID		VCDT			
IHKA / IHKR		VCDT S91			
CCC-A		VCDT			
Coding/Program		Recoding	S1		
		CKM	S2		
	CBS reset	S3			
	CBS correct	S4			
	Service functions	S5,S6			
2006-	56/R57/R58/R59/R60	Drive	CAS / FEM	VCDT S13	
			DME / DDE	VCDT S16	
			EGS / SMG	VCDT S19	
Chassis	AL / AFS / ASA	VCDT S30			

			Chassis	ABS / ACS / DSC	VCDT S28
			Body	SRS / SIM / MRS / ACSM	VCDT S50
				SZL	VCDT S51
				TRSV	VCDT
				HKFM	VCDT
				ZGW	VCDT S98
				PMA	VCDT
				DVDC / MMC	VCDT
				TBX	VCDT
				AMP / AMPH / AMPT	VCDT
				ASD	VCDT
				FZD	VCDT S72
				KAFAS	VCDT
				IKE / KOM / KOMBI	VCDT S77
				CBX-ECALL	VCDT
				CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC- BO	VCDT S80
				PDC	VCDT
				CON / ZBE	VCDT
				SMFAH	VCDT S83
				SMBFH	VCDT S84
				SMFA	VCDT S81
			SMBF	VCDT S82	
			AHM	VCDT	
			FRM	VCDT S88	
			IHKA / IHKR	VCDT S92	
			Coding/Program	Recoding	
				CBS reset	S3
				CBS correct	S4
				Service functions	S5,S6
				(*) :Tested;	
				(?) :Manual on website(www.x431.com)	
				Note:All description rights reserved by LAUNCH TECH.CO.,LTD	
System Notes					
Driver:					
CAS/FEM	CAS/FEM [Car Access System]				
EWS	EWS [Elec. immobilize system]				
DME/DDE	DME/DDE [Digital motor/Diesel electronics]				
DME2	DME2 [Digital Motor Electronics 2]				
EGS	EGS [Transmission control]				
SMG	SMG [Sequential Manual Gearbox]				
VTG/LMV	VTG/LMV [Gearbox control]				
EKPS	EKPS [Electronic Fuel pump]				
VTC	VTC [Valvetronic]				
VTC2	VTC2 [Valvetronic 2]				
GWS	GWS [Gear selector switch]				
QMVH	QMVH [Lateral-moment distribution, rear axle]				
EME	EME [Electrical machine electronics]				
Chassis:					
ABS/ACS/DSC	ABS/ACS/DSC [Dynamic Stability Control]				
AL/AFS/ASA	AL/AFS/ASA [Active steering/Active Front Steering]				
LDM	LDM [Longitudinal Dynamics Management]				
ICM	ICM [Integrated chassis management]				
RDC	RDC [Tyre pressure control]				
ACC/FRR/LRR	ACC/FRR/LRR [Active Cruise Control]				
ARS	ARS [Dynamic Drive]				
EMF	EMF [Parking brake]				
EPS	EPS [Electronic Power Steering]				
EHPS	EHPS [Electrically assisted steering]				
EHC	EHC [Electronic Ride-Height Control]				
EDC/VDC	EDC/VDC [Damper Control]				
ICMV	ICMV [Integrated Chassis Management]				

VDM	VDM [Vertical Dynamics Management]
CIM	CIM [Chassis Integration Module]
LEW	LEW [Steering-angle sensor]
EDCSVL	EDCSVL [Damper satellite, front left]
EDCSVR	EDCSVR [Damper satellite, front right]
EDCSHL	EDCSHL [Damper satellite, rear left]
EDCSHR	EDCSHR [Damper satellite, rear right]
HSR	HSR [Rear-axle slip-angle control]
SME	SME [Accumulator management electronics]
Body:	
SGM-ZGM/KGM/JBE/JBBF	SGM-ZGM/KGM/JBE/JBBF [Safety and Gateway Module (ZGM)]
ZKE	ZKE [Central body electronic]
SRS/SGM-SIM/MRS/ACSM	SRS/SIM/MRS/ACSM [Safety and Gateway Module (SIM)]
SZL	SZL [Switch center, steering column]
SASL	SASL [Satellite, A-pillar, left]
SASR	SASR [Satellite, A-pillar, right]
STVL/CDM	STVL/CDM [Satellite, door, front left]
STVR	STVR [Satellite, door, front right]
TRSVIC	TRSVIC [All round view camera]
TMFA	TMFA [Door module, driver]
TMBF	TMBF [Door module, front passenger]
SSFA	SSFA [Satellite, seat, driver]
SSBF	SSBF [Satellite, seat, passenger]
SBSL	SBSL [Satellite, B-pillar, left]
SBSR	SBSR [Satellite, B-pillar, right]
HC/SWW	HC/SWW [Lane change warning]
SCR	SCR [Selective catalytic reduction]
SSH/HKFM	SSH/HKFM [Satellite, seat, rear]
SFZ	SFZ [Satellite vehicle center]
SVT	SVT [Servotronic]
CEM	CEM [Clean Energy Module]
AHL	AHL [Adaptive directional headlights]
CVM/CTM	CVM/CTM [Convertible-top module]
RSE	RSE [Rear Seat Entertainment]
CA	CA [Comfort Access]
DVDC/MMC	DVDC/MMC [DVD changer]
SG-FD-GW	SG-FD-GW [Control module, rear-compartment]
SG-FD	SG-FD [Control module, rear-compartment]
SVS	SVS [Language processing system]
TCU/ULF/TEL	TCU/ULF/TEL [Telematic Control unit]
AMP/AMPH/AMPT	AMP/AMPH/AMPT [Amplifier]
KHI/KHM	KHI /KHM [Headset interface]
NAV	NAV [Navigation system]
CDC	CDC [CD Changer]
HUD	HUD [Head-Up Display]
CCC-ASK	CCC-ASK [Audio system controller]
DWA	DWA [Antitheft alarm system]
PM/MPM	PM/MPM [(Micro) Power module]
SHD	SHD [Sliding/tilting sunroof]
RLS	RLS [Rain/driving lights sensor]
WIM	WIM [Wiper module]
ANT	ANT [Aerial/antenna tuner]
VSW	VSW [Video switch]
JBIT	JBIT [Japan Basis Interface Telephone]
VM	VM [Video Module]
SEC	SEC [Supplementary control module]
TMFAT	TMFAT [Door module, driver's door]
TMBFT	TMBFT [Door module, passenger door]
TMFAH	TMFAH [Door module, driver's side rear]
TMBFH	TMBFH [Door module, passenger's side rear]
EMALI	EMALI [Left electric motor reel]
EMARE	EMARE [Right electric motor reel]
SINE	SINE [Siren with tilt sensor]
CANSIN	CANSIN [Anti_ theft alarm system]
MFL	MFL [Multi-function steering wheel]
IBOC	IBOC [Digital tuner US]
SDARS	SDARS [Satellite tuner]
ULF-SBX-H	ULF-SBX-H [Interface box High]
FZD	FZD [Function Center, Roof]
NVE/NIVI	NVE/NIVI [Night Vision Electronics]
ALBFA	ALBFA [Active backrest width, driver]
ALBBF	ALBBF [Active backrest width, front passenger]
DAB	DAB [Digital tuner]

TLC	TLC [Lane Departure Warning]
KAFAS	KAFAS [Camera based driver assist systems]
FLA	FLA [High Beam Assist]
INSTR	INSTR [Instrument cluster]
IKE/IKI/KOM/KOMBI	IKE/KOM/KOMBI [Instrument cluster]
PDC	PDC [Park Distance Control]
FBI	FBI [Flexible Bus Interface]
CBX-ECALL	CBX-ECALL [ComBox emergency call]
CD-GW/M-ASK-GW/CCC-GW/CHAMP-GW/RAD2-GW/CIC-GW	CD-GW/M-ASK-GW/CCC-GW/CHAMP-GW/RAD2-GW/CIC-GW [Gateway]
CD/M-ASK-BO/RAD/CIC/RAD2-BO/CHAMP-BO/CCC-BO	CD/M-ASK-BO/RAD/CIC/RAD2-BO/CHAMP-BO/CCC-BO [Control Display / User interface]
SZM/BZM	SZM/BZM [Switching/Control center, center console]
FBZM	FBZM [Rear compartment, control center, center console]
CON/ZBE	CON/ZBE [Controller]
FCON/ZBEF	FCON/ZBEF [Rear Compartment controller]
RAD	RAD [Radio]
SMFAH	SMFAH [Seat module, driver's side rear]
SMBFH	SMBFH [Seat module, passenger's side rear]
DSP	DSP [Digital Sound Processor]
HKL	HKL [Rear-lid lift]
STH	STH [Park heating]
SMFA	SMFA [Seat module, driver]
SMBF	SMBF [Seat module, passenger]
LM	LM [Lights Module]
LSZ/LCM	LSZ/LCM [Light switching center]
AHM	AHM [Trailer module]
FRM	FRM [Footwell Module]
KBM	KBM [Body Basic Module]
SMF	SMF [Seat memory, driver]
CID	CID [Central Information Display]
FD/CIDF	FD/CIDF [Rear-compartment display]
CIDF2	CIDF2 [Rear-compartment display]
RFK	RFK [Reversing camera]
IHKA/IHKR	IHKA/IHKR [Integrated automatic heating/air conditioning]
FKA	FKA [Rear heater/air conditioning]
SHZH	SHZH [Independent/auxiliary heater]
NVK	NVK [Night Vision camera]
CCC-A	CCC-A [Applications]
GR	GR [Cruise control]
FGB	FGB [Rear Compartment blower]
SES	SES [Language-input system]
NAJ	NAJ [Navigation Computer, Japan]
MID	MID [Multi Information Display]
BIT	BIT [Basis Interface Telephone]
AIC	AIC [Automatic Interval Control]
VID	VID [Video Module]
BM	BM [On-board monitor]
PMA	PMA [Parking assistant]
VOCS	VOCS [Interior camera]
ZGW	ZGW [Central Gateway Module]
ADS	ADS [Throttle-Valve Control]
AHK	AHK [Active Rear-Axle Kinematics]
EKM	EKM [Electronic Body Module]
EML	EML [Elec. throttle]
FHK	FHK [Rear Heater A/C System]
HKA	HKA [Rear-cabin automatic A/C]
GSA	GSA [Closed-Loop-Controlled Differential-Lock AWD]
URS	URS [Rollover sensor]
VMX	VMX [Top-speed Regulation]
VNC	VNC [Variable Camshaft Control]
XEN	XEN [XENON LIGHTS]
SLM/SM	SPM/SM
SMB	SMB [Entrance aid,passenger]
SPMBT	SPMBT [Mirror memory,passenger]
SPMFT	SPMFT [Mirror memory,driver]
ASD	ASD [Active Sound Design]
TBX	TBX [Touchbox]
STML	STML [Headlight driver module, left]
STMR	STMR [Headlight driver module, right]
LHML	LHML [LED main light module, left]
LHMR	LHMR [LED main light module, right]
GZAL	GZAL [Targeted illumination, left]
GZAR	GZAR [Targeted illumination, right]
LRA	LRA [Headlight beam throw adjustment]

Functions Notes		
Basic functions:		
V	VERSION INFORMATION	
C	DTC	
D	DATA Stream	
T	ACTIVATION TEST	
F	FREEZE FRAME	
Special functions:		
S1	RECODING	
S2	CKM(Car Key Memory)	
S3	Maintenance / CBS RESET	
S3-1	Engine Oil	
S3-2	Microfilter	
S3-3	Front barke	
S3-4	Rear brake	
S3-5	Vehicle check	
S3-6	Spark plugs	
S3-7	Brake fluid	
S3-8	Coolant	
S3-9	Vehicle inspection	
S3-10	Exhaust emission inspection	
S3-11	Diesel particle filter	
S4	Maintenance / CBS Correct	
S4-1	Engine Oil	
S4-2	Microfilter	
S4-3	Front barke	
S4-4	Rear brake	
S4-5	Vehicle check	
S4-6	Spark plugs	
S4-7	Brake fluid	
S4-8	Coolant	
S4-9	Vehicle inspection	
S4-10	Exhaust emission inspection	
S4-11	Diesel particle filter	
S6	Service functions	E60/E65/E70/E71/E84/E87/E90/R56 etc. F01/F10/F12/F20/F25/F30/F15 etc.
S6-1	Adjustment, Steering-angle sensor	
S6-2	Electronic parking brake (EPB)	
S6-3	Tyre air pressure warning lamp reset	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S6-4	Throttle matching	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S7	Service functions	E38/E39/E46/E53/E85/E83/R50 etc.
S7-1	Key Test	
S7-2	Display status of all keys	
S7-3	Disable/Enable key	
S7-4	Adjustment, Steering-angle sensor	
S11	EWS [Elec. immobilize system]	E38/E39/E46/E53/E85/E83/R50 etc.
S11-1	Key	
S11-2	Key status	
S11-3	Disable/enable key	
S11-4	Write key varient	
S11-5	Enter retrofitting	
S11-6	Add production date	
S12	CAS [Car Access System]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S12-1	CAS reset	
S12-2	CAS KL 15 activation/deactivation	
S12-3	Reset internal ELV fault counter	
S12-4	Resetting starter lock	
S12-5	Teach in radio remote control	
S13	CAS/FEM/BDC [Car Access System]	F01/F10/F12/F20/F25/F30/F15 etc.
S13-1	Engine start	
S13-2	Presentation mode	
S13-3	Power-down Command	
S13-4	CAS KL15 activation/deactivation	
S13-5	FEM_KL 15 activation/deactivation	

S13-6	BDC-KL 15 activation/deactivation	
S13-7	Remote key / ignition key - Block/enable	
S13-8	Remote key / ignition key - Personalisation number	
S13-9	Initialisation of the Telestart transmitter	
S13-10	Initialisation of rain-light-solar-condensations sensor	
S13-11	Initialise headlight driver module and teach in LEDs in headlight	
S13-12	Initialise power window drive	
S14	DME/DDE [Digital motor/Diesel electronics]	E38/E39/E46/E53/E85/E83/R50 etc.
S14-1	DDE information	
S14-2	EWS-DME/DDE adjustment	
S14-3	Idle speed adjustment	
S14-4	CO adjustment	
S14-5	Reset adaptations	
S14-6	Setpoint/actual-value comparison, idle speed	
S14-7	OBD readiness codes	
S14-8	MFL and air conditioning	
S14-9	Program all adjustments	
S14-10	Pump program map	
S14-11	Clear adaptations	
S14-12	Smooth-running measurement	
S14-13	Tank-leak-system check	
S14-14	Secondary-air-system check	
S14-15	VANOS system check	
S14-16	Tank-leak system check LDP (E38/E39)	
S14-17	Tank-leak system check DMTL (E53/E39)	
S14-18	Consumption calculation	
S14-19	Exhaust-gas recirculation	
S14-20	Idle speed	
S14-21	Injector program map	
S14-22	Limitation delivery	
S14-23	MFL and air conditioning	
S14-24	Program all adjustments	
S14-25	Starting fuel delivery	
S14-26	Operational smoothness measurement	
S14-27	Air mass flow sensor	
S14-28	Mean quantity adaptation	
S14-29	Reset variants	
S14-30	Injection rate	
S14-31	Injector rate adjustment	
S14-32	Bleeding, fuel system	
S14-33	Read measured values	
S14-34	Learning Valvetronic limit positions	
S14-35	Mechanical components/function	
S14-36	On-board Diagnosis Readiness Codes	
S14-37	Self-learning cycle	
S14-38	Activation, DMTL pump	
S14-39	Setpoint/actual-value comparison, idle speed	
S14-40	Remove Valvetronic servomotor	
S14-41	Ventilation, Cooling system	
S14-42	HFM, throttle valve, cooler bypass	
S14-43	Regeneration, nitrogen-oxide catalytic converter	
S14-44	Replacement, nitrogen-oxide catalytic converter	
S14-45	Idling quality	
S14-46	Check, mixed-up oxygen sensor	
S14-47	Energy-saving mode	
S14-48	Idle adjustment, setpoint/actual value	
S14-49	Idle speed correction	
S15	DME/DDE [Digital motor/Diesel electronics]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S15-1	Air mass flow sensor	
S15-2	Mean quantity adaptation	
S15-3	Electric fuel pump	
S15-4	Rail-pressure regulating valve	
S15-5	Swirl flap actuator	
S15-6	Reset variants	
S15-7	Consumption calculation	
S15-8	DDE-CAS	
S15-9	Exhaust-gas recirculation	
S15-10	Idle speed	
S15-11	Injection rate	
S15-12	Injector rate adjustment	

S15-13	Limitation delivery	
S15-14	start basic injection quantity	
S15-15	Bleeding,fuel system	
S15-16	EOBD readiness codes	
S15-17	Operational smoothness measurement	
S15-18	Regeneration,particulate filter	
S15-19	Replacement,particulate filter	
S15-20	Read measured values	
S15-21	Bleeding,fuel system	
S15-22	EOBD readiness codes	
S15-23	Operational smoothness measurement	
S15-24	Read measured values	
S15-25	Clear adaptations	
S15-26	Co adjustment	
S15-27	DME-CAS	
S15-28	Fuel consumption display	
S15-29	Learning Valvetronic limit positions	
S15-30	Minimum stroke adjustment	
S15-31	Remove Valvetronic servomotor	
S15-32	On-board Diagnosis Readiness Codes	
S15-33	Eccentric shaft adjustment	
S15-34	Tolerance test,intermediate lever	
S15-35	Smooth running test	
S15-36	Wear test	
S15-37	Self-learning cycle	
S15-38	Activation,DMTL pump	
S15-39	Idling quality	
S15-40	Bleeding,fuel system	
S15-41	EOBD readiness codes	
S15-42	Operational smoothness measurement	
S15-43	Output correction,additive status	
S15-44	Regeneration,particulate filter	
S15-45	Replacement,particulate filter	
S15-46	Read measured values	
S15-47	Record engine operating data	
S15-48	HFM,throttle valve,cooler bypass	
S15-49	Learning/Writing zero-gear sensor	
S15-50	Reading AV memory	
S15-51	System check MSA	
S15-52	Compression test	
S15-53	Regeneration,nitrogen-oxide catalytic converter	
S15-54	Replacement,nitrogen-oxide catalytic converter	
S15-55	Reset oil-change interval	
S15-56	Injection deactivation	
S15-57	VANOS ventilation	
S15-58	Check,mixed-up oxygen sensor	
S15-59	Energy-saving mode	
S15-60	Idle adjustment,setpoint/actual value	
S15-61	Idle correction	
S15-62	Cruise control	
S15-63	Exhaust backpressure sensor before exhaust turbocharger	
S15-64	Preheating control unit	
S16	DME/DDE [Digital motor/Diesel electronics]	F01/F10/F12/F20/F25/F30/F15 etc.
S16-1	Adjust injectors	
S16-2	Clear adaptations	
S16-3	Consumption calculation	
S16-4	Fuel injector adaptation	
S16-5	Idle speed	
S16-6	Fuel grade display	
S16-7	Ventilation,cooling system	
S16-8	On-board Diagnosis Readiness Codes	
S16-9	Evaluate battery charge state	
S16-10	Register battery change	
S16-11	Evaluate closed-circuit current monitoring	
S16-12	Air mass flow sensor	
S16-13	EGR valve	
S16-14	Electric fuel pump	
S16-15	Mean quantity adaptation	
S16-16	Rail-pressure regulating valve	
S16-17	Swirl-flap actuator	
S16-18	DDE-CAS	
S16-19	Exhaust-gas recirculation	

S16-20	Glow elements	
S16-21	Injector rate adjustment	
S16-22	Starting torque	
S16-23	Register starter exchange	
S16-24	System check,automatic engine start-stop function	
S16-25	Bleeding,fuel system	
S16-26	Regeneration,particulate filter	
S16-27	Replacement,particulate filter	
S16-28	Smooth running control	
S16-29	Engine oil quantity	
S16-30	Learning Valvetronic limit positions	
S16-31	Valvetronic running-in phase	
S16-32	Teach in zero-gear sensor	
S16-33	Preheating control unit	
S16-34	Delete installation mode	
S16-35	Start-up, fuel pump control	
S17	EGS [Transmission control]	E38/E39/E46/E53/E85/E83/R50 etc.
S17-1	ATF-level check	
S17-2	Clear adaptation values	
S17-3	Oil level check	
S17-4	Adapt transmission fully	
S17-5	Venting, transmission actuator	
S17-6	Teach in characteristic clutch-valve values	
S17-7	Teach in clutch slip point	
S17-8	Venting, clutch slave cylinder	
S17-9	Venting, transmission actuator	
S17-10	Offset, sensor, longitudinal acceleration	
S17-11	Calculate accumulator prepressurizing pressure	
S17-12	Disengage gear	
S17-13	Engage any gear	
S17-14	Resetting adaption functions	
S17-15	Mechatronics adjustment	
S17-16	Oil-level adjustment	
S17-17	Oil change/Oil lifetime	
S17-18	Bleed hydraulic system	
S17-19	Recalibration,transmission	
S17-20	Reduce hydraulic pressure	
S17-21	Reset clutch characteristic	
S17-22	Teach in transmission	
S18	EGS [Transmission control]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S18-1	Display and reset adaptation values	
S18-2	Mechatronics adjustment	
S18-3	Oil-level adjustment	
S18-4	Resetting adaption functions	
S18-5	Oil change	
S18-6	Teach in transmission	
S18-7	Teach in clutch slip	
S18-8	Reset clutch characteristic	
S18-9	Bleed hydraulic system	
S18-10	Reduce hydraulic pressure	
S18-11	Hydraulic pump activation test	
S18-12	SMG disengage gear assembly test	
S18-13	Replacement and repair functions	
S18-13-1	- Transmission control (After replacement)	
S18-13-2	- Clutch	
S18-13-3	- Gearbox and engine	
S18-13-4	- Hydraulics	
S18-13-5	- Sensors	
S18-13-6	- Replacement and repair	
S18-14	Calculate accumulator prepressurizing pressure	
S18-15	Defines engage Neutral	
S18-16	Engage any gear	
S18-17	flushing function	
S18-18	Format fault memory	
S18-19	Oil balancing	
S18-20	Teach-in functions	
S18-20-1	- Clutch adaptation	
S18-20-2	- Reset torque characteristic curve	
S18-20-3	- Teach in valve characteristic curve	
S18-20-4	- Transmission adaptation	

S18-21	Parking lock functional check	
S18-22	Parking lock hook test	
S19	EGS [Transmission control]	F01/F10/F12/F20/F25/F30/F15 etc.
S19-1	Display and reset adaptation values	
S19-2	Immobiliser reset function	
S19-3	Resetting adaption function	
S19-4	Oil balancing	
S19-5	Data adjustment, mechatronics	
S19-6	Flushing function	
S19-7	Format fault memory	
S19-8	Clutch adaptation	
S19-9	Gearbox adaptation	
S19-10	Learn in of valve characteristic curve	
S19-11	Reset torque characteristic curve	
S19-12	Parking lock functional check	
S19-13	Parking lock hook test	
S19-14	Integrated electrical pump	
S20	VTG/LMV [Gearbox control]	E38/E39/E46/E53/E85/E83/R50 etc.
S20-1	Oil change	
S20-2	Repair	
S21	VTG/LMV [Gearbox control]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S21-1	Oil change	
S21-2	Repair	
S22	VTG/LMV [Gearbox control]	F01/F10/F12/F20/F25/F30/F15 etc.
S22-1	Repair	
S23	EKP [Electronic Fuel pump]	F01/F10/F12/F20/F25/F30/F15 etc.
S23-1	Reset the production mode for the fuel pump control module	
S24	QMVH [Lateral-moment distribution, rear axle]	E70/E71
S24-1	Startup QMVH	
S24-2	Oil chage,QMVH	
S25	EME [Electrical machine electronics]	F04
S25-1	DC/DC converter calibration	
S25-2	Motor position sensor adjustment	
S25-3	Ventilation,cooling system	
S25-4	Charge high-voltage battery	
S25-5	Starting up the high-voltage battery unit	
S26	ABS/ACS/DSC [Dynamic Stability Control]	E38/E39/E46/E53/E85/E83/R50 etc.
S26-1	Lateral acceleration sensor	
S26-2	Pressure sensors	
S26-3	All sensors	
S26-4	Connection,brake lines	
S26-5	Connection,speed sensor	
S26-6	Ventilation	
S26-7	Bleeding, ABS hydraulic modulator	
S26-8	Final check on ABS	
S26-9	Test procedures	
S26-10	rate of rotation sensor	
S26-11	Steering angle sensor	
S26-12	Bleeding,DSC hydraulics	
S26-13	Control-unit replacement	
S26-14	Mix-up checks,brake lines	
S26-15	Bleeding the ABS/ASC hydraulic system	
S26-16	Reset ABS motor-relay clock counter	
S26-17	Final ABS/ASC check	
S26-18	Bleeding procedure for special cases	
S26-19	Brake bleeding procedure	
S26-20	Mix-up checks,brake lines	
S26-21	Adjustment of DSC sensor	
S26-22	Adjustment,DSC unit	
S26-23	Steering angle sensor adjustment	
S27	ABS/ACS/DSC [Dynamic Stability Control]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S27-1	Bleeding,DSC hydraulics	
S27-2	Dynamic Stability Control autocoding	
S27-3	Adjustment of DSC sensor	

S27-4	Adjustment,DSC unit	
S27-5	Brake bleeding procedure	
S27-6	Bleeding procedure for special cases	
S27-7	Mix-up checks,brake lines	
S27-8	Steering angle sensor adjustment	
S27-9	Run Flat Indicator	
S28	ABS/ACS/DSC [Dynamic Stability Control]	F01/F10/F12/F20/F25/F30/F15 etc.
S28-1	Brake bleeding procedure	
S28-2	Mix-up checks,brake lines	
S28-3	DSC control unit adjustment	
S28-4	Brake bleeding procedure for special cases	
S28-5	Adjustment of the driving dynamics sensors	
S29	AL/AFS/ASA [Active steering/Active Front Steering]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S29-1	Start-up/alignment of active steering	
S30	AL/AFS/ASA [Active steering/Active Front Steering]	F01/F10/F12/F20/F25/F30/F15 etc.
S30-1	Start-up of active steering	
S31	ICM [Integrated chassis management]	F01/F10/F12/F20/F25/F30/F15 etc.
S31-1	Adjustment,ICM sensor system	
S31-2	Ride height adjustment	
S32	ARS [Dynamic Drive]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S32-1	Fault,sensor,learn values	
S32-2	Initial operation	
S32-2-1	- Start startup	
S32-2-2	- Startup fault	
S32-2-3	- Warning, startup	
S32-3	Learn sensor parameters	
S32-3-1	- Lateral acceleration sensor	
S32-3-2	- Pressure sensor, front axle	
S32-3-3	- Pressure sensor, rear axle	
S32-4	Learn sensor zero point	
S32-4-1	- Lateral acceleration sensor	
S32-4-2	- Pressure sensor, front axle	
S32-4-3	- Pressure sensor, rear axle	
S33	EMF [Parking brake]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S33-1	Assembly mode	
S33-2	Workshop braking-in	
S33-3	Positioning-travel check	
S33-4	Execute brake-in program	
S33-5	Workshop mode	
S33-6	Initial operation	
S34	EMF [Parking brake]	F01/F10/F12/F20/F25/F30/F15 etc.
S34-1	Bedding-in procedure	
S34-2	Workshop mode	
S34-3	Initial operation	
S35	EHPS [Electrically assisted steering]	R50
S35-1	Measurement,resistance	
S36	EPS [Electronic Power Steering]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S36-1	End stop	
S36-2	Start-up, EPS unit	
S36-3	Adjustment, steering-torque sensor	
S37	EPS [Electronic Power Steering]	F01/F10/F12/F20/F25/F30/F15 etc.
S37-1	EPS start-up	
S38	EHC [Electronic Ride-Height Control]	E38/E39/E46/E53/E85/E83/R50 etc.
S38-1	Check,actuators	
S38-2	delete line mode	
S38-3	Inquiry,line mode	
S38-4	Ride height sensor check	
S38-5	Ride height adjustment	
S38-6	Delete transport mode	
S38-7	Inquiry,transport mode	
S38-8	Warning lamp, pre-drive check (10s)	
S38-9	Warning lamp, pre-drive check (30s)	

S38-10	Check, air supply system	
S38-11	Check, compressor relay	
S38-12	Check, solenoid valve	
S38-13	Check, supply, pressure accumulator	
S38-14	Check, valve, pressure accumulator	
S38-15	Vent pressure accumulator	
S39	EHC [Electronic Ride-Height Control]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S39-1	Ride height sensor check	
S39-2	Check,air supply system	
S39-3	Check,compressor,relay	
S39-4	Delete energy saving mode	
S39-5	Check,raise/low function	
S40	EHC [Electronic Ride-Height Control]	F01/F10/F12/F20/F25/F30/F15 etc.
S40-1	Filling and discharging air from air bellows	
S40-2	Ride height sensor check	
S40-3	Activate compressor	
S41	EDC/VDC [Damper Control]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S41-1	Adjustment,shock absorber	
S41-2	Initial setting,switch-on state	
S41-3	System startup after control-unit replacement	
S41-4	Ride height adjustment	
S41-5	Vertical-acceleration-sensor adjustment	
S42	ICMV [Integrated Chassis Management]	F01/F10/F12/F20/F25/F30/F15 etc.
S42-1	Initial operation	
S42-1-1	- Start startup	
S42-1-2	- Start-up, fault evaluation	
S42-2	Learn pressure sensors	
S42-2-1	- Adapt pressure sensors with fault evaluation	
S42-3	Self-diagnosis	
S42-3-1	- Self-diagnosis, fault evaluation	
S42-3-2	- Start self-diagnosis	
S43	CIM [Chassis Integration Module]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S43-1	Calibration,Steering column	
S44	HSR [Rear-axle slip-angle control]	F01/F10/F12/F20/F25/F30/F15 etc.
S44-1	HSR function check (deflection test)	
S44-2	Rear axle wheel alignment	
S44-3	Start-up HSR rotor position sensor	
S45	SME [Accumulator management electronics]	F04
S45-1	High-voltage safety check	
S45-2	Locate insulation fault	
S46	ZKE [Central body electronic]	E38/E39/E46/E53/E85/E83/R50 etc.
S46-1	Set/delete opening limitation	
S46-2	Log remote control key on/off	
S46-3	Anti-theft alarm system - DWA activation	
S46-4	Service action,general module 5	
S46-5	Set/delete opening limitation	
S47	SGM-ZGM/KGM/JBE/JBBF [Safety and Gateway Module (ZGM)]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S47-1	Power window regulator	
S47-2	Waking up the vehicle	
S48	JBBF [Junction-box electronics]	F01/F10/F12/F20/F25/F30/F15 etc.
S48-1	Power window regulator	
S48-2	Solar rain/light fogging sensor	
S49	SRS/SIM/MRS/ACSM [Safety and Gateway Module (SIM)]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S49-1	Enable seat-occupancy mat, front passenger	
S49-2	Start system time:Satelitepassenger	
S49-3	Trigger roll bar	
S49-4	Read coding data	
S50	SRS/SIM/MRS/ACSM [Safety and Gateway Module (SIM)]	F01/F10/F12/F20/F25/F30/F15 etc.
S50-1	Lock airbag	
S50-2	Enable seat occupancy mat	

S51	SZL [Switch center, steering column]	F01/F10/F12/F20/F25/F30/F15 etc.
S51-1	Steering wheel angle sensor adjustment	
S52	TMFA [Door module, driver]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S52-1	Initialising the power windows	
S53	TMBF [Door module, front passenger]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S53-1	Initialising the power windows	
S54	HC/SWW [Lane change warning]	F01/F10/F12/F20/F25/F30/F15 etc.
S54-1	Initial operation, SWW sensor system	
S55	RSE [Rear Seat Entertainment]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S55-1	Teach in radio remote control	
S56	RSE [Rear Seat Entertainment]	F01/F10/F12/F20/F25/F30/F15 etc.
S56-1	Teach in radio remote control	
S56-2	Activate radio module	
S57	TCU/ULF/TEL [Telematic Control unit]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S57-1	Log off CKPH	
S57-2	Log on CKPH	
S57-3	Initialized telematics services	
S57-4	Activate Bluetooth and emergency call	
S57-5	Correct volume	
S57-6	Log handset in and off	
S57-7	Log on snap-in adapter	
S57-8	TCU subsequent evaluation	
S57-9	Resetting BMW Assist	
S57-10	Re-enabling BMW Assist	
S58	NAV [Navigation system]	E38/E39/E46/E53/E85/E83/R50 etc.
S58-1	Initialisation	
S58-2	DVD lock	
S59	NAV [Navigation system]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S59-1	DVD lock	
S60	DWA [Antitheft alarm system]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S60-1	Anti-theft alarm system - DWA activation	
S61	PM/MPM [(Micro) Power module]	E65
S61-1	Register battery replacement	
S62	SHD [Sliding/tilting sunroof]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S62-1	Initialise slide/tilt sunroof	
S62-2	Delivery position	
S63	RLS [Rain/driving lights sensor]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S63-1	Initialise rain sensor	
S64	WIM [Wiper module]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S64-1	Vent SRA	
S64-2	Windscreen wipers - Installation position	
S65	TMFAT [Door module, driver's door]	E65
S65-1	Initialise power window regulators	
S66	TMBFT [Door module, passenger door]	E65
S66-1	Initialise power window regulators	
S67	TMFAH [Door module, driver's side rear]	E65
S67-1	Initialise power window regulators	
S68	TMBFH [Door module, passenger's side rear]	E65
S68-1	Initialise power window regulators	
S69	EMALI [Left electric motor reel]	F01/F10/F12/F20/F25/F30/F15 etc.
S69-1	Motor-driven belt retractor, left -> Replace drive, left	
S70	EMARE [Right electric motor reel]	F01/F10/F12/F20/F25/F30/F15 etc.
S70-1	Motor-driven belt retractor, right -> Replace drive, right	

S71	FZD [Function Center, Roof]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S71-1	Initialise slide/tilt sunroof	
S71-2	Alarm triggers	
S72	FZD [Function Center, Roof]	F01/F10/F12/F20/F25/F30/F15 etc.
S72-1	Initialise slide/tilt sunroof	
S73	ALBFA [Active backrest width, driver]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S73-1	ALBFA initialization	
S74	ALBBF [Active backrest width, front passenger]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S74-1	ALBBF initialization	
S75	IKE/KOM/KOMBI [Instrument cluster]	E38/E39/E46/E53/E85/E83/R50 etc.
S75-1	Reset service interval indicator	
S76	INSTR [Instrument cluster]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S76-1	Instrument cluster system test	
S77	IKE/KOM/KOMBI [Instrument cluster]	F01/F10/F12/F20/F25/F30/F15 etc.
S77-1	Instrument cluster system test	
S78	CD-GW/M-ASK-GW/CCC-GW/CHAMP-GW/RAD2-GW/CIC-GW [Gateway]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S78-1	MOST ring,save configuration	
S78-2	Turn,New Zealand	
S78-3	Creat boot file again	
S79	CD/M-ASK-BO/RAD/CIC/RAD2-BO/CHAMP-BO/CCC-BO [Control Display]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S79-1	Turn, Japan	
S79-2	Restore delivery status	
S80	CIC/CHAMP [Car headunit platform]	F01/F10/F12/F20/F25/F30/F15 etc.
S80-1	Restore delivery status	
S80-2	Save configuration of MOST ring	
S80-3	Test function for map data	
S81	SMFA [Seat module, driver]	F01/F10/F12/F20/F25/F30/F15 etc.
S81-1	Driver's side normalisation	
S82	SMBF [Seat module, passenger]	F01/F10/F12/F20/F25/F30/F15 etc.
S82-1	Front passenger side normalisation	
S83	SMFAH [Seat module, driver's side rear]	F01/F10/F12/F20/F25/F30/F15 etc.
S83-1	Rear driver's side normalisation	
S84	SMBFH [Seat module, passenger's side rear]	F01/F10/F12/F20/F25/F30/F15 etc.
S84-1	Rear front passenger side normalisation	
S85	HKL [Rear-lid lift]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S85-1	Initialisation,automatic tailgate actuation	
S86	HKL [Rear-lid lift]	F01/F10/F12/F20/F25/F30/F15 etc.
S86-1	Initialisation,automatic tailgate actuation	
S87	FRM [Footwell Module]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S87-1	Initialise power window	
S87-2	VA calibration body general module	
S88	FRM [Footwell Module]	F01/F10/F12/F20/F25/F30/F15 etc.
S88-1	Initialise power window drive	
S88-2	Electric steering-column adjustment	
	- Normalization	
	- Partial normalization	
S88-3	Initialise new headlight driver module and teach-in turn indicator	
S89	VDM [Vertical Dynamics Management]	F01/F10/F12/F20/F25/F30/F15 etc.
S89-1	Initial operation	
S90	IHKA/IHKR [Integrated automatic heating/air conditioning]	E38/E39/E46/E53/E85/E83/R50 etc.
S90-1	Deactivate transport-lock function	
S91	IHKA/IHKR [Integrated automatic heating/air conditioning]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S91-1	Refrigerant compressor run-in protection	

S91-2	Rear-window roller blind	
S91-3	Operating parameter of evaporator temperature	
S91-4	Readdress flap motors	
S91-5	Electric steering-column adjustment	
S92	IHKA/IHKR [Integrated automatic heating/air conditioning]	F01/F10/F12/F20/F25/F30/F15 etc.
S92-1	Flap motors	
	- Perform flap-motor calibration run	
	- Readdress flap motors	
S92-2	Independent/auxiliary heater	
	- Adaptation, undervoltage limit	
	- Unlocking	
S92-3	Run-in protection for A/C compressor	
	- Air conditioning compressor initial operation	
S93	FKA [Rear heater/air conditioning]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S93-1	Drain/fill refrigerant circuit	
S94	FKA [Rear heater/air conditioning]	F01/F10/F12/F20/F25/F30/F15 etc.
S94-1	Drain/fill refrigerant circuit	
S95	SHZH [Independent/auxiliary heater]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S95-1	Independent/auxiliary heater	
S95-1-1	- Heating test run	
S95-1-2	- unlocking	
S96	BIT [Basis Interface Telephone]	E38/E39/E46/E53/E85/E83/R50 etc.
S96-1	Change emergency number	
S96-2	Log handset on/off	
S96-3	Log handset on/off	
S96-4	Re-enabling BMW assist	
S97	AIC [Automatic Interval Control]	E38/E39/E46/E53/E85/E83/R50 etc.
S97-1	Initialise rain sensor	
S98	ZGW [Central Gateway Module]	F01/F10/F12/F20/F25/F30/F15 etc.
S98-1	Initialize FlexRay	
S99	URS [Rollover sensor]	E38/E39/E46/E53/E85/E83/R50 etc.
S99-1	Rollover sensor	
S100	SMFA [Seat module, driver]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S100-1	Standardisation of seat	
S101	SMBF [Seat module, passenger]	E60/E65/E70/E71/E84/E87/E90/R56 etc.
S101-1	Standardisation of seat	