

**MINI V12.40** Diagnostics List (Note: For reference only)

Series	Year	Chassis		SyStem	Function
	2000-2008	R50/R52/R53	Drive	<b>EWS</b>	VCDT S11
				<b>DME</b>	VCDT
				<b>DDE</b>	VCDTF S14
				<b>EGS / SMG</b>	VCDT S17
			Chassis	<b>ABS / ACS / DSC</b>	VCDTF S26
				<b>RDC</b>	VCDT
				<b>EHPS</b>	VCDT S35
				<b>LEW</b>	VCDT
			Body	<b>ZKE</b>	VCDT S46
				<b>SRS / SIM / MRS / ACSM</b>	VCDTF
				<b>STVL / CDM</b>	VCDT
				<b>STVR</b>	VCDT
				<b>CVM / CTM</b>	VCDT
				<b>SHD</b>	VCDT
				<b>IKE / KOM / KOMBI</b>	VCDTF S75
				<b>PDC</b>	VCDT
				<b>RAD</b>	VCDT
				<b>LSZ / LCM</b>	VCDT
				<b>IHKA / IHKR</b>	VCDT S90
				<b>AIC</b>	VCDT S97
				<b>BM</b>	VCDT
				<b>URS</b>	VCDT S99
			Coding/Program	<b>Recoding</b>	S1
				<b>CKM</b>	S2
				<b>Service functions</b>	S5,S7
			Drive	<b>CAS / FEM</b>	VCDTF S12
				<b>DME / DDE</b>	VCDTF S15
				<b>EGS / SMG</b>	VCDTF S18
			Chassis	<b>ABS / ACS / DSC</b>	VCDTF S27
				<b>EPS</b>	VCDT S36
				<b>RDC</b>	VCDT
				<b>SGM-ZGM / KGM / JBE / JBBF</b>	VCDTF S47
<b>SRS / SIM / MRS / ACSM</b>	VCDTF S49				
<b>SZL</b>	VCDT				
<b>CVM / CTM</b>	VCDT				
<b>CA</b>	VCDT				
<b>AMP / AMPH / AMPT</b>	VCDTF				
<b>NAV</b>	VCDT S59				

MINI	2006-	R57/R58/R59	Body	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
	2014 -	F56	Drive	CAS / FEM	VCDT S13
				DME / DDE	VCDT S16
				EGS / SMG	VCDT S19
			Chassis	AL / AFS / ASA	VCDT S30
				ABS / ACS / DSC	VCDT S28
				SRS / SIM / MRS / ACSM	VCDT S50
				SZL	VCDT S51
				TR SVC	VCDT
				HKFM	VCDT
				ZGW	VCDT S98
				PMA	VCDT
				DVDC / MMC	VCDT
				TBX	VCDT
				AMP / AMPH / AMPT	VCDT
				ASD	VCDT
				FZD	VCDT S72
				KAFAS	VCDT

			Body	<b>IKE / KOM / KOMBI</b>	VCDT S77
				<b>CBX-ECALL</b>	VCDT
				<b>CD / M-ASK-BO / RAD / CIC / RAD2-BO / CHAMP-BO / CCC-BO</b>	VCDT S80
				<b>PDC</b>	VCDT
				<b>CON / ZBE</b>	VCDT
				<b>SMFAH</b>	VCDT S83
				<b>SMBFH</b>	VCDT S84
				<b>SMFA</b>	VCDT S81
				<b>SMBF</b>	VCDT S82
				<b>AHM</b>	VCDT
				<b>FRM</b>	VCDT S88
				<b>IHKA / IHKR</b>	VCDT S92
		oding/Progra		<b>Recoding</b>	
				<b>CBS reset</b>	S3
			<b>CBS correct</b>	S4	
			<b>Service functions</b>	S5,S6	
(*) :Tested;					
(?) :Manual on website( <a href="http://www.x431.com">www.x431.com</a> )					
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<b>System Notes(系统说明)</b>	
<b>Driver:</b>	<b>驱动模块:</b>
CAS/FEM [Car Access System]	CAS/FEM [车辆进入系统]
EWS [Elec. immobilize system]	EWS [电子防盗系统]
DME/DDE [Digital motor/Diesel electronics]	DME/DDE [数字式马达电子系统/数字式柴油电子系统]
DME2 [Digital Motor Electronics 2]	DME2 [发动机2]
EGS [Transmission control]	EGS [电控自动变速器]
SMG [Sequential Manual Gearbox]	SMG [序列式手动变速箱]
VTG/LMV [Gearbox control]	VTG/LMV [变速箱控制]
EKPS [Electronic Fuel pump]	EKPS [电子燃油泵]
VTC [Valvetronic]	VTC [电子控制气门]
VTC2 [Valvetronic 2]	VTC2 [电子控制气门 2]
GWS [Gear selector switch]	GWS [档位选择器开关]
QMVH [Lateral-moment distribution, rear axle]	QMVH [侧向力矩分配, 后轴]
EME [Electrical machine electronics]	EME [电气机械电子]
<b>Chassis:</b>	<b>底盘模块:</b>
ABS/ACS/DSC [Dynamic Stability Control]	ABS/ACS/DSC [动态稳定性控制]
AL/AFS/ASA [Active steering/Active Front Steering]	AL/AFS/ASA [主动转向 /主动前转向]
LDM [Longitudinal Dynamics Management]	LDM [纵向动态管理]
ICM [Integrated chassis management]	ICM [集成式底盘控制]
RDC [Tyre pressure control]	RDC [胎压控制]
ACC/FRR/LRR [Active Cruise Control]	ACC/FRR/LRR [自适应巡航控制]
ARS [Dynamic Drive]	ARS [动态驱动]
EMF [Parking brake]	EMF [停车制动器]
EPS [Electronic Power Steering]	EPS [电子动力转向]
EHPS [Electrically assisted steering]	EHPS [电动辅助转向]
EHC [Electronic Ride-Height Control]	EHC [电子高度控制]
EDC/VDC [Damper Control]	EDC/VDC [减振器控制]
ICMV [Integrated Chassis Management]	ICMV [集成式底盘控制]
VDM [Vertical Dynamics Management]	VDM [垂直动态管理]
CIM [Chassis Integration Module]	CIM [底盘综合模块]
LEW [Steering-angle sensor]	LEW [转向角传感器]
EDCSVL [Damper satellite, front left]	EDCSVL [左前减振器卫星电脑模块]
EDCSVR [Damper satellite, front right]	EDCSVR [右前减振器卫星电脑模块]
EDCSHL [Damper satellite, rear left]	EDCSHL [左后减振器卫星电脑模块]
EDCSHR [Damper satellite, rear right]	EDCSHR [右后减振器卫星电脑模块]
HSR [Rear-axle slip-angle control]	HSR [后轴打滑角度控制]
SME [Accumulator management electronics]	SME [蓄压器控制电子]
<b>Body:</b>	<b>车身模块:</b>
SGM-ZGM/KGM/JBE/JBBF [Safety and Gateway Module (ZGM)]	SGM-ZGM/KGM/JBE/JBBF [安全和网关模块(ZGM)]
ZKE [Central body electronic]	ZKE [中央电脑系统]
SRS/SIM/MRS/ACSM [Safety and Gateway Module (SIM)]	SRS/SGM-SIM/MRS/ACSM [安全和信息模块(SIM)]

SZL [Switch center, steering column]	SZL [转向管柱开关中心]
SASL [Satellite, A-pillar, left]	SASL [左A柱侧向加速度传感器]
SASR [Satellite, A-pillar, right]	SASR [右A柱侧向加速度传感器]
STVL/CDM [Satellite, door, front left]	STVL/CDM [左前门侧向加速度传感器]
STVR [Satellite, door, front right]	STVR [右前门侧向加速度传感器]
TRSVC [All round view camera]	TRSVC [全方位摄像头]
TMFA [Door module, driver]	TMFA [驾驶员门模块]
TMBF [Door module, front passenger]	TMBF [前乘客门模块]
SSFA [Satellite, seat, driver]	SSFA [司机座椅侧向加速度传感器]
SSBF [Satellite, seat, passenger]	SSBF [乘客座椅侧向加速度传感器]
SBSL [Satellite, B-pillar, left]	SBSL [左B柱侧向加速度传感器]
SBSR [Satellite, B-pillar, right]	SBSR [右B柱侧向加速度传感器]
HC/SWW [Lane change warning]	HC/SWW [变道警告]
SCR [Selective catalytic reduction]	SCR [可选催化减少]
SSH/HKFM [Satellite, seat, rear]	SSH/HKFM [后部座椅卫星式控制单元]
SFZ [Satellite vehicle center]	SFZ [车辆中心侧向加速度传感器]
SVT [Servotronic]	SVT [伺服助力转向系统]
CEM [Clean Energy Module]	CEM [清洁能源模块]
AHL [Adaptive directional headlights]	AHL [前照灯方向自适应]
CVM/CTM [Convertible-top module]	CVM/CTM [活动顶篷模块]
RSE [Rear Seat Entertainment]	RSE [后排座椅娱乐系统]
CA [Comfort Access]	CA [舒适进入系统]
DVDC/MMC [DVD changer]	DVDC/MMC [DVD播放机]
SG-FD-GW [Control module, rear-compartment]	SG-FD-GW [客厢后部控制模块]
SG-FD [Control module, rear-compartment]	SG-FD [客厢后部控制模块]
SVS [Language processing system]	SVS [语言处理系统]
TCU/ULF/TEL [Telematic Control unit]	TCU/ULF/TEL [信息通信控制单元]
AMP/AMPH/AMPT [Amplifier]	AMP/AMPH/AMPT [扩音器]
KHI /KHM [Headset interface]	KHI/KHM [听筒接口]
NAV [Navigation system]	NAV [导航系统]
CDC [CD Changer]	CDC [CD播放机]
HUD [Head-Up Display]	HUD [平视式显示器]
CCC-ASK [Audio system controller]	CCC-ASK [音响系统控制器]
DWA [Antitheft alarm system]	DWA [防盗警报系统]
PM/MPM [(Micro) Power module]	PM/MPM [动力模块]
SHD [Sliding/tilting sunroof]	SHD [滑动/倾斜天窗]
RLS [Rain/driving lights sensor]	RLS [雨量/阳光传感器]
WIM [Wiper module]	WIM [刮水器模块]
ANT [Aerial/antenna tuner]	ANT [天线调谐器]
VSW [Video switch]	VSW [视频开关]
JBIT [Japan Basis Interface Telephone]	JBIT [日本基本接口电话]
VM [Video Module]	VM [视频模块]
SEC [Supplementary control module]	SEC [辅助控制模块]
TMFAT [Door module, driver's door]	TMFAT [驾驶员侧车门模块]
TMBFT [Door module, passenger door]	TMBFT [乘客门模块]
TMFAH [Door module, driver's side rear]	TMFAH [驾驶员后侧车门模块]
TMBFH [Door module, passenger's side rear]	TMBFH [乘客后侧门模块]
EMALI [Left electric motor reel]	EMALI [左侧电子马达机轴]
EMARE [Right electric motor reel]	EMARE [右侧电子马达机轴]

SINE [Siren with tilt sensor]	SINE [警报器和倾斜传感器]
CANSIN [Anti_theft alarm system]	CANSIN [防盗警报系统]
MFL [Multi-function steering wheel]	MFL [多功能方向盘]
IBOC [Digital tuner US]	IBOC [美国数字调谐器]
SDARS [Satellite tuner]	SDARS [卫星调谐器]
ULF-SBX-H [Interface box High]	ULF-SBX-H [高接口箱]
FZD [Function Center, Roof]	FZD [天窗功能中心]
NVE/NIVI [Night Vision Electronics]	NVE/NIVI [夜视电子]
ALBFA [Active backrest width, driver]	ALBFA [主动式驾驶员靠背宽度]
ALBBF [Active backrest width, front passenger]	ALBBF [主动式前乘客靠背宽度]
DAB [Digital tuner]	DAB [数字调谐器]
TLC [Lane Departure Warning]	TLC [车道偏离警告]
KAFAS [Camera based driver assist systems]	KAFAS [基于摄像机原理的驾驶员辅助系统]
FLA [High Beam Assist]	FLA [远光灯协助]
INSTR [Instrument cluster]	INSTR [仪表盘]
IKE/KOM/KOMBI [Instrument cluster]	IKE/IKI/KOM/KOMBI [仪表盘]
PDC [Park Distance Control]	PDC [倒车雷达系统]
FBI [Flexible Bus Interface]	FBI [FBI]
CBX-ECALL [ComBox emergency call]	CBX-ECALL [ComBox 紧急呼叫]
CD-GW/M-ASK-GW/CCC-GW/CHAMP-GW/RAD2-GW/CIC-GW [Gateway]	CD-GW/M-ASK-GW/CCC-GW/CHAMP-GW/RAD2-GW/CIC-GW [网关]
CD/M-ASK-BO/RAD/CIC/RAD2-BO/CHAMP-BO/CCC-BO [Control Display / User interface]	CD/M-ASK-BO/RAD/CIC/RAD2-BO/CHAMP-BO/CCC-BO [控制显示器/用户接口]
SZM/BZM [Switching/Control center, center console]	SZM/BZM [中央控制台开关中心]
FBZM [Rear compartment, control center, center console]	FBZM [中央控制台后座区控制中心]
CON/ZBE [Controller]	CON/ZBE [控制器]
FCON/ZBEF [Rear Compartment controller]	FCON/ZBEF [后座区控制器]
RAD [Radio]	RAD [收音机]
SMFAH [Seat module, driver's side rear]	SMFAH [驾驶员侧后部座椅模块]
SMBFH [Seat module, passenger's side rear]	SMBFH [前乘客侧后部座椅模块]
DSP [Digital Sound Processor]	DSP [数码音响处理系统]
HKL [Rear-lid lift]	HKL [后行李箱盖提升装置]
STH [Park heating]	STH [驻车加热]
SMFA [Seat module, driver]	SMFA [驾驶员座椅模块]
SMBF [Seat module, passenger]	SMBF [前乘客座椅模块]
LM [Lights Module]	LM [灯光模块]
LSZ/LCM [Light switching center]	LSZ/LCM [灯光开关中心]
AHM [Trailer module]	AHM [挂车模块]
FRM [Footwell Module]	FRM [脚部空间模块]
KBM [Body Basic Module]	KBM [车身基础模块]
SMF [Seat memory, driver]	SMF [司机座椅存储器]
CID [Central Information Display]	CID [中央信息显示器]
FD/CIDF [Rear-compartment display]	FD/CIDF [后部车厢显示器]
CIDF2 [Rear-compartment display]	CIDF2 [后部车厢显示器]
RFK [Reversing camera]	RFK [倒车摄像头]
IHKA/IHKR [Integrated automatic heating/air conditioning]	IHKA/IHKR [集成自动加热/空调系统]

FKA [Rear heater/air conditioning]	FKA [后部加热器/空调]
SHZH [Independent/auxiliary heater]	SHZH [停车预热/辅助加热装置]
NVK [Night Vision camera]	NVK [夜视摄像机]
CCC-A [Applications]	CCC-A [设备]
GR [Cruise control]	GR [巡航控制]
FGB [Rear Compartment blower]	FGB [后部车厢鼓风机]
SES [Language-input system]	SES [语言输入系统]
NAJ [Navigation Computer, Japan]	NAJ [导航仪计算机, 日本]
MID [Multi Information Display]	MID [多功能显示器]
BIT [Basis Interface Telephone]	BIT [基本接口电话]
AIC [Automatic Interval Control]	AIC [刮水器自动间歇控制]
VID [Video Module]	VID [视频模块]
BM [On-board monitor]	BM [随车监视]
PMA [Parking assistant]	PMA [驻车辅助]
VOCS [Interior camera]	VOCS [内部摄像头]
ZGW [Central Gateway Module]	ZGW [中央网关模块]
ADS [Throttle-Valve Control]	ADS [节气门控制]
AHK [Active Rear-Axle Kinematics]	AHK [主动后桥运动学]
EKM [Electronic Body Module]	EKM [电子车身模块]
EML [Elec. throttle]	EML [电子发动机输出控制]
FHK [Rear Heater A/C System]	FHK [后暖风空调系统]
HKA [Rear-cabin automatic A/C]	HKA [后座区暖风和空调系统]
GSA [Closed-Loop-Controlled Differential-Lock AWD]	GSA [闭环控制差速锁全轮驱动]
URS [Rollover sensor]	URS [防翻滚传感器]
VMX [Top-speed Regulation]	VMX [最高车速调整]
VNC [Variable Camshaft Control]	VNC [可变凸轮轴控制]
XEN [XENON LIGHTS]	XEN [氙气大灯]
SPM/SM	SPM/SM
SMB [Entrance aid,passenger]	SMB [进车辅助,乘客侧]
SPMBT [Mirror memory,passenger]	SPMBT [乘客后视镜存储]
SPMFT [Mirror memory,driver]	SPMFT [司机后视镜存储]
ASD [Active Sound Design]	ASD [Active Sound Design]
TBX [Touchbox]	TBX [触控盒]
STML [Headlight driver module, left]	STML [左侧大灯驱动器模块]
STMR [Headlight driver module, right]	STMR [右侧大灯驱动器模块]
LHML [LED main light module, left]	LHML [左侧LED大灯控制模块]
LHMR [LED main light module, right]	LHMR [右侧LED大灯控制模块]
GZAL [Targeted illumination, left]	GZAL [左定向照明]
GZAR [Targeted illumination, right]	GZAR [右定向照明]
LRA [Headlight beam throw adjustment]	LRA [大灯光束投射调节]
RDME (Range extender digital engine electronics)	RDME (增程设备数字发动机电子单元)
REME (Range extender electrical machine electronics)	REME (增程设备电动机电子单元)
TFE (Pressurized fuel tank control module)	TFE (压力油箱电子控制系统)
LIM (Charging interface module)	LIM (充电接口模块)
KLE (Convenience charging electronics)	KLE (便捷充电系统)
SAS (Optional extra system)	SAS (特殊装备系统)
ZGM2 (Central gateway module 2)	ZGM2 (中央网关模块 2 - CGW)

VSG (Vehicle Sound Generator)	VSG (车辆声效发电机)
CSM (Car sharing module)	CSM (车辆共享模块)
ACP (Audio Control Panel)	ACP (音频控制面板)



Functions Notes (功能说明)			
	<b>Basic functions:</b>	<b>基本功能</b>	
V	VERSION INFORMATION	版本信息	
C	DTC	读故障码，清故障码，故障码帮助	
D	DATA Stream	读数据流	
T	ACTIVATION TEST	动作测试	
F	FREEZE FRAME	冻结帧	
	<b>Special functions:</b>	<b>特殊功能</b>	
S1	RECODING	编码	
S2	CKM(Car Key Memory)	车辆钥匙记忆	
<b>S3</b>	<b>Maintenance / CBS RESET</b>		
S3-1	Engine Oil	发动机机油	
S3-2	Microfilter	火花塞	
S3-3	Front barke	前制动	
S3-4	Rear brake	后制动	
S3-5	Vehicle check	车辆检查	
S3-6	Spark plugs	微过滤器	
S3-7	Brake fluid	制动液	
S3-8	Coolant	冷却液	
S3-9	Vehicle inspection	车辆检查日期	
S3-10	Exhaust emission inspection	废气检查日期	
S3-11	Diesel particle filter	柴油机微粒过滤复位	
<b>S4</b>	<b>Maintenance / CBS Correct</b>		
S4-1	Engine Oil	发动机机油	
S4-2	Microfilter	火花塞	
S4-3	Front barke	前制动	
S4-4	Rear brake	后制动	
S4-5	Vehicle check	车辆检查	
S4-6	Spark plugs	微过滤器	
S4-7	Brake fluid	制动液	
S4-8	Coolant	冷却液	
S4-9	Vehicle inspection	车辆检查日期	
S4-10	Exhaust emission inspection	废气检查日期	
S4-11	Diesel particle filter	柴油机微粒过滤校正	
S5	Delete transport mode	删除运输模式	
S6	<b>Service functions</b>	<b>保养功能</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc. F01/F10/F12/F20/F25/ F30/F15 etc.</b>

S6-1	Adjustment, Steering-angle sensor	方向盘转向角传感器调整功能	
S6-2	Electronic parking brake (EPB)	电子刹车片 (EPB)	
S6-3	Tyre air pressure warning lamp reset	轮胎气压报警灯归零	E60/E65/E70/E71/E84/ E87/E90/R56 etc.
S6-4	Throttle matching	节气门匹配	E60/E65/E70/E71/E84/ E87/E90/R56 etc.
S7	<b>Service functions</b>	<b>保养功能</b>	<b>E38/E39/E46/E53/E85 /E83/R50 etc.</b>
S7-1	Key Test	钥匙检测功能	
S7-2	Display status of all keys	显示所有钥匙状态功能	
S7-3	Disable/Enable key	钥匙禁用或许用功能	
S7-4	Adjustment, Steering-angle sensor	方向盘转向角传感器调整功能	
S11	<b>EWS [Elec. immobilize system]</b>	<b>EWS [电子防盗系统]</b>	<b>E38/E39/E46/E53/E85 /E83/R50 etc.</b>
S11-1	Key	钥匙	
S11-2	Key status	钥匙状态	
S11-3	Disable/enable key	启用/解除钥匙	
S11-4	Write key variant	写钥匙设备	
S11-5	Enter retrofitting	输入改装	
S11-6	Add production date	添加生产日期	
S12	<b>CAS [Car Access System]</b>	<b>CAS [车辆进入系统]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S12-1	CAS reset	汽车存取系统(CAS)复位	
S12-2	CAS KL 15 activation/deactivation	CAS (便捷登车及起动系统) 端子15激活/失活	
S12-3	Reset internal ELV fault counter	复位内部ELV故障计数器	
S12-4	Resetting starter lock	重新启动锁定	
S12-5	Teach in radio remote control	学习无线电遥控	
S12-6	<b>Power-down command</b>	<b>电力下降命令</b>	
S13	<b>CAS/FEM/BDC [Car Access System]</b>	<b>CAS/FEM/BDC [车辆进入系统]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S13-1	Engine start	启动	
S13-2	Presentation mode	演示模式	
S13-3	Power-down Command	掉电指令	
S13-4	CAS KL15 activation/deactivation	CAS (便捷登车及起动系统) 端子15激活/失活	
S13-5	FEM_KL 15 activation/deactivation	FEM (前部电子模块) 端子15 激活/失活	
S13-6	BDC-KL 15 activation/deactivation	BDC-端子15激活/解除	
S13-7	Remote key / ignition key - Blcok/enable	遥控钥匙/点火钥匙 - 禁用/启 用	

S13-8	Remote key / ignition key - Personalisation number	遥控钥匙/点火钥匙 - 个性化号码	
S13-9	Initialisation of the Telearstart transmitter	遥控起动发射器初始化设置	
S13-10	Initialisation of rain-light-solar-condensations sensor	初始化设置雨天/行车灯/雾气/光照传感器	
S13-11	Initialise headlight driver module and teach in LEDs in headlight	对大灯驱动器模块进行初始化设置并示教大灯中的LED	
S13-12	Initialise power window drive	初始化电动车窗驱动	
S14	<b>DME/DDE [Digital motor/Diesel electronics]</b>	<b>DME/DDE [数字式马达电子系统/数字式柴油电子系统]</b>	<b>E38/E39/E46/E53/E85/E83/R50 etc.</b>
S14-1	DDE information	柴油发动机信息	
S14-2	EWS-DME/DDE adjustment	DME (DDE) -EWS调节	
S14-3	Idle speed adjustment	怠速调节	
S14-4	CO adjustment	一氧化碳调节	
S14-5	Reset adaptations	重置自适应	
S14-6	Setpoint/actual-value comparison, idle speed	设置点/实际值比较, 怠速速度	
S14-7	OBD readiness codes	OBD, 准备就绪编码	
S14-8	MFL and air conditioning	MFL和空调	
S14-9	Program all adjustments	编程所有调整	
S14-10	Pump program map	泵编程MAP	
S14-11	Clear adaptations	清除自适应	
S14-12	Smooth-running measurement	平稳运行测量	
S14-13	Tank-leak-system check	油箱泄漏系统检测	
S14-14	Secondary-air-system check	二次空气喷射系统检测	
S14-15	VANOS system check	VANOS (可变凸轮轴正时) 系统测试	
S14-16	Tank-leak system check LDP (E38/E39)	油箱泄漏系统检测 LDP (E38/E39)	
S14-17	Tank-leak system check DMTL (E53/E39)	油箱泄漏系统检测 DMTL (E53/E39)	
S14-18	Consumption calculation	油耗计算	
S14-19	Exhaust-gas recirculation	废气再循环	
S14-20	Idle speed	怠速	
S14-21	Injector program map	喷射器脉谱图	
S14-22	Limitation delivery	限制供油	
S14-23	MFL and air conditioning	MFL和空调	
S14-24	Program all adjustments	编程所有调整	
S14-25	Starting fuel delivery	起动供油	
S14-26	Operational smoothness measurement	操作平滑度测量	
S14-27	Air mass flow sensor	空气质量流量传感器	
S14-28	Mean quantity adaptation	均量自适应	
S14-29	Reset variants	复位变量	
S14-30	Injection rate	喷油率	

S14-31	Injector rate adjustment	喷油率调整	
S14-32	Bleeding,fuel system	排气, 燃油系统	
S14-33	Read measured values	读取测量值	
S14-34	Learning Valvetronic limit positions	自适应电子控制气门限制位置	
S14-35	Mechanical components/function	机械部件/功能	
S14-36	On-board Diagnosis Readiness Codes	OBd 就绪代码	
S14-37	Self-learning cycle	自适应循环	
S14-38	Activation,DMTL pump	激活, DMTL (油箱泄漏诊断模块) 泵	
S14-39	Setpoint/actual-value comparison,idle speed	设置点/实际值比较, 怠速速度	
S14-40	Remove Valvetronic servomotor	移除电子控制气门伺服马达	
S14-41	Ventilation,Cooling system	冷却系统排气	
S14-42	HFM,throttle valve,cooler bypass	冷却器旁通节气门HFM (热膜式空气质量流量计)	
S14-43	Regeneration,nitrogen-oxide catalytic converter	再生, 氮氧化物催化剂转换器	
S14-44	Replacement,nitrogen-oxide catalytic converter	更换, 氮氧化物催化剂转换器	
S14-45	Idling quality	怠速运转质量	
S14-46	Check,mixed-up oxygen sensor	检查, 混乱的氧传感器	
S14-47	Energy-saving mode	节能模式	
S14-48	Idle adjustment,setpoint/actual value	怠速调节, 设定值/实际值	
S14-49	Idle speed correction	怠速修正	
S14-50	Compression test	压缩测试	
S14-51	Boost pressure controller test	增压压力控制器测试	
S14-52	Fuel pressure test	燃油压力测试	
S14-53	Glow plug heater test	电热塞热测试	
S14-54	Reset pressure control	重置压力控制	
S14-55	Wear test	磨损测试	
S14-56	Eccentric shaft adjustment	偏心轴调整	
S14-57	Tolerance test, intermediate lever	公差测试, 中间位置控制杆	
S14-58	Idling quality	怠速运转质量	
S14-59	Learning/writing, zero-gear sensor	学习/写, 空档传感器	
S14-60	System check MSA	系统检查MSA	
S14-61	Read AV accumulator	读取AV系统记忆装置	
S14-62	Learning/writing, Teach in zero-gear sensor	学习/写, 学习空档传感器	
S15	<b>DME/DDE [Digital motor/Diesel electronics]</b>	<b>DME/DDE [数字式马达电子系统/数字式柴油电子系统]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S15-1	Air mass flow sensor	空气流量传感器	

S15-2	Mean quantity adaptation	均量自适应	
S15-3	Electric fuel pump	电动燃油泵	
S15-4	Rail-pressure regulating valve	油轨压力调节阀	
S15-5	Swirl flap actuator	漩涡阀执行器	
S15-6	Reset varlants	复位变量	
S15-7	Consumption calculation	油耗计算	
S15-8	DDE-CAS	DDE-CAS	
S15-9	Exhaust-gas recirculation	废气再循环	
S15-10	Idle speed	怠速	
S15-11	Injection rate	喷油率	
S15-12	Injector rate adjustment	喷油率调整	
S15-13	Limitation delivery	限制供油	
S15-14	start basic injection quantity	起动基础喷油质量	
S15-15	Bleeding,fuel system	排气, 燃油系统	
S15-16	EOBD readiness codes	EOBD, 准备就绪编码	
S15-17	Operational smoothness measurement	操作的平稳度测量	
S15-18	Regeneration,particulate filter	微粒滤清器再生	
S15-19	Replacement,partuculate filter	更换微粒滤清器	
S15-20	Read measured values	读取测量值	
S15-21	Bleeding,fuel system	排气, 燃油系统	
S15-22	EOBD readiness codes	EOBD, 准备就绪编码	
S15-23	Operational smoothness measurement	操作的平稳度测量	
S15-24	Read measured values	读取测量值	
S15-25	Clear adaptations	清除自适应	
S15-26	Co adjustment	一氧化碳调节	
S15-27	DME-CAS	DME-CAS	
S15-28	Fuel consumption display	油耗显示	
S15-29	Learning Valvetronic limit positions	自适应电子控制气门限制位置	
S15-30	Minimum stroke adjustment	最小冲程调整	
S15-31	Remove Valvetronic servomtor	移除电子控制气门伺服马达	
S15-32	On-board Diagnosis Readiness Codes	OBd 就绪代码	
S15-33	Eccentric shaft adjustment	偏心轴调整	
S15-34	Tolerance test,intermediate lever	公差测试, 中间位置控制杆	
S15-35	Smooth running test	平稳运行测试	
S15-36	Wear test	磨损测试	
S15-37	Self-learning cycle	自适应循环	
S15-38	Activation,DMTL pump	激活, DMTL (油箱泄漏诊断模块) 泵	
S15-39	Idling quality	怠速运转质量	
S15-40	Bleeding,fuel system	排气, 燃油系统	
S15-41	EOBD readiness codes	EOBD, 准备就绪编码	
S15-42	Operational smoothness measurement	操作的平稳度测量	
S15-43	Output correction,additive status	输出修正, 添加剂状态	
S15-44	Regenration,particulate filter	微粒滤清器再生	
S15-45	Replacement,particulate filter	更换微粒滤清器	
S15-46	Read meassured values	读取测量值	

S15-47	Record engine operating data	记录发动机工作数据	
S15-48	HFM,throttle valve,cooler bypass	冷却器旁通节气门HFM（热膜式空气质量流量计）	
S15-49	Learning/Writing zero-gear sensor	学习/写零档传感器	
S15-50	Reading AV memory	阅读AV记忆	
S15-51	System check MSA	系统检查MSA	
S15-52	Compression test	压缩测试	
S15-53	Regeneration,nitrogen-oxide catalytic converter	再生，氮氧化物催化剂转换器	
S15-54	Replacement,nitrogen-oxide catalytic converter	更换，氮氧化物催化剂转换器	
S15-55	Reset oil-change interval	发动机机油更换间隔复位	
S15-56	Injection deactivation	喷油关闭	
S15-57	VANOS ventilation	VANOS通风	
S15-58	Check,mixed-up oxygen sensor	检查，混乱的氧传感器	
S15-59	Energy-saving mode	节能模式	
S15-60	Idle adjustment,setpoint/actual value	怠速调节，设定值/实际值	
S15-61	Idle correction	怠速校正	
S15-62	Cruise control	巡航控制	
S15-63	Exhaust backpressure sensor before exhaust turbocharger	废气涡轮增压器前的排气背压传感器	
S15-64	Preheating control unit	预热控制单元	
S15-65	Register battery change	记录电池更换	
S15-66	Evaluate battery charge state	评估电池充电状态	
S15-67	Assembly test, electric throttle valve	组装测试，电动节流阀	
S15-68	Fule grade	燃油等级	
S15-69	Compression test	压缩测试	
S15-70	Evaluate battery charge state	评估蓄电池充电状态	
S15-71	Evaluate closed-circuit current monitoring	评估休眠电流监控	
S15-72	Activate refuel detection	激活加注检测	
S15-73	SCR system adjustment	SCR 系统匹配	
S16	<b>DME/DDE [Digital motor/Diesel electronics]</b>	<b>DME/DDE [数字式马达电子系统/数字式柴油电子系统]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S16-1	Adjust injectors	调节喷射器	
S16-2	Clear adaptations	清除自适应	
S16-3	Consumption calculation	油耗计算	
S16-4	Fuel injector adaptation	燃油喷射器自适应	
S16-5	Idle speed	怠速	
S16-6	Fuel grade display	燃料等级显示	
S16-7	Ventilation,cooling system	冷却系统排气	
S16-8	On-board Diagnosis Readiness Codes	OBd 就绪代码	
S16-9	Evaluate battery charge state	评估电池充电状态	
S16-10	Register battery change	记录电池更换	

S16-11	Evaluate closed-circuit current monitoring	评估休眠电流监控	
S16-12	Air mass flow sensor	空气质量流量传感器	
S16-13	EGR valve	EGR（废气再循环）阀	
S16-14	Electric fuel pump	电动燃油泵	
S16-15	Mean quantity adaptation	均量自适应	
S16-16	Rail-pressure regulating valve	油轨压力调节阀	
S16-17	Swirl-flap actuator	漩涡阀执行器	
S16-18	DDE-CAS	DDE-CAS	
S16-19	Exhaust-gas recirculation	废气再循环	
S16-20	Glow elements	预热元件	
S16-21	Injector rate adjustment	喷油率调整	
S16-22	Starting torque	起动扭矩	
S16-23	Register starter exchange	记录起动机更换	
S16-24	System check,automatic engine start-stop function	MSA 系统检查	
S16-25	Bleeding,fuel system	排气，燃油系统	
S16-26	Regeneration,particulate filter	微粒滤清器再生	
S16-27	Replacement,particulate filter	更换微粒滤清器	
S16-28	Smooth running control	平稳运行控制	
S16-29	Engine oil quantity	发动机机油量	
S16-30	Learning Valvetronic limit positions	自适应电子控制气门限制位置	
S16-31	Valvetronic running-in phase	Valvetronic（电子控制气门）磨合阶段	
S16-32	Teach in zero-gear sensor	零档传感器调校	
S16-33	Preheating control unit	预热控制单元	
S16-34	Delete installation mode	删除安装模式	
S16-35	Start-up, fuel pump control	燃油泵控制试运行	
S17	<b>EGS [Transmission control]</b>	<b>EGS [电控自动变速器]</b>	<b>E38/E39/E46/E53/E85/E83/R50 etc.</b>
S17-1	ATF-level check	ATF（自动变速器油）液位检查	
S17-2	Clear adaptation values	清除自适应值	
S17-3	Oil level check	机油液位检查	
S17-4	Adapt transmission fully	完全自适应变速器	
S17-5	Venting, transmission actuator	通风，变速器执行器	
S17-6	Teach in characteristic clutch-valve values	自学习离合器阀特征值	
S17-7	Teach in clutch slip point	自学习离合器滑点	
S17-8	Venting, clutch slave cylinder	通风，离合器从动缸	
S17-9	Venting, transmission actuator	通风，变速器执行器	
S17-10	Offset, sensor, longitudinal acceleration	纵向加速度传感器补偿	
S17-11	Calculate accumulator prepressurizing pressure	计算蓄压器压力	
S17-12	Disengage gear	脱档	
S17-13	Engage any gear	挂入任意档位	

S17-14	Resetting adaption functions	复位自适应功能	
S17-15	Mechatronics adjustment	机械电子调节	
S17-16	Oil-level adjustment	机油液位调节	
S17-17	Oil change/Oil lifetime	机油更换/机油使用寿命	
S17-18	Bleed hydraulic systtem	排气液压系统	
S17-19	Recalibration,transmission	重新校准, 传输	
S17-20	Reduce hydrulic pressure	降低液压	
S17-21	Reset clutch characteristic	复位离合器特性	
S17-22	Teach in transmission	学习变速器	
S18	<b>EGS [Transmission control]</b>	<b>EGS [电控自动变速器]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S18-1	Display and reset adaptation values	显示和复位自适应值	
S18-2	Mechatronics adjustment	机械电子调节	
S18-3	Oil-level adjustment	机油液位调节	
S18-4	Resetting adaption functions	复位自适应功能	
S18-5	Oil change	机油更换	
S18-6	Teach in transmission	学习变速器	
S18-7	Teach in clutch slip	学习离合器打滑	
S18-8	Reset clutch characteristic	复位离合器特性	
S18-9	Bleed hydraulic system	排气液压系统	
S18-10	Reduce hydraulic pressure	降低液压	
S18-11	Hydraulic pump activation test	液压泵激活测试	
S18-12	SMG disengage gear assembly test	SMG (序列式手排变速系统) 脱档总成测试	
S18-13	Replacement and repair functions	更换和修复功能	
	- Transmission control (After replacement)	- 变速箱控制 (更换后)	
	- Clutch	- 离合器	
	- Gearbox and engine	- 变速箱和发动机	
	- Hydraulics	- 液压	
	- Sensors	- 传感器	
	- Replacement and repair	- 更换和维修	
S18-14	Calculate accumulator prepressurizing pressure	计算蓄压器压力	
S18-15	Defines engage Neutral	挂入空档	
S18-16	Engage any gear	挂入任意档位	
S18-17	flushing function	冲洗功能	
S18-18	Format fault memory	格式化故障记忆	
S18-19	Oil balancing	机油平衡	
S18-20	Teach-in functions	学习功能	
	- Clutch adaptation	- 离合器自适应	
	- Reset torque characteristic curve	- 复位扭矩特性曲线	
	- Teach in valve cnaracteristic curve	- 学习阀门特性曲线	
	- Tramsission adaptation	- 变速器自适应	
S18-21	Parking lock functional check	驻车锁, 功能检查	
S18-22	Parking lock hook test	驻车锁, 锁钩测试	



S19	<b>EGS [Transmission control]</b>	<b>EGS [电控自动变速器]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S19-1	Display and reset adaptation values	显示和复位自适应值	
S19-2	Immobiliser reset function	防盗系统复位功能	
S19-3	Resetting adaption function	复位自适应功能	
S19-4	Oil balancing	机油平衡	
S19-5	Data adjustment, mechatronics	数据调整, 机电一体化	
S19-6	Flushing function	冲洗功能	
S19-7	Format fault memory	格式化故障记忆	
S19-8	Clutch adaptation	离合器自适应	
S19-9	Gearbox adaptation	变速器自适应	
S19-10	Learn in of valve characteristic curve	阀门特性曲线的学习	
S19-11	Reset torque characteristic curve	复位扭矩特性曲线	
S19-12	Parking lock functional check	驻车锁, 功能检查	
S19-13	Parking lock hook test	驻车锁, 锁钩测试	
S19-14	Integrated electrical pump	集成电动泵	
S20	<b>VTG/LMV [Gearbox control]</b>	<b>VTG/LMV [变速箱控制]</b>	<b>E38/E39/E46/E53/E85 /E83/R50 etc.</b>
S20-1	Oil change	机油更换	
S20-2	Repair	维修	
S21	<b>VTG/LMV [Gearbox control]</b>	<b>VTG/LMV [变速箱控制]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S21-1	Oil change	机油更换	
S21-2	Repair	维修	
S22	<b>VTG/LMV [Gearbox control]</b>	<b>VTG/LMV [变速箱控制]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S22-1	Repair	维修	
S23	<b>EKP [Electronic Fuel pump]</b>	<b>EKP [电子燃油泵]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S23-1	Reset the production mode for the fuel pump control module	复位燃油泵控制单元生产模式	
S24	<b>QMVH [Lateral-moment distribution, rear axle]</b>	<b>QMVH [侧向力矩分配, 后轴]</b>	<b>E70/E71</b>
S24-1	Startup QMVH	调试QMVH (后桥横向扭矩分配)	
S24-2	Oil chage,QMVH	机油更换, QMVH (后桥横向扭矩分配)	
S25	<b>EME [Electrical machine electronics]</b>	<b>EME [电气机械电子]</b>	<b>F04</b>
S25-1	DC/DC converter calibration	DC/DC 转换器匹配	
S25-2	Motor position sensor adjustment	马达位置传感器匹配	
S25-3	Ventilation,cooling system	冷却系统排气	
S25-4	Charge high-voltage battery	高压蓄电池充电	

S25-5	Starting up the high-voltage battery unit	起动高压电池单元	
S26	<b>ABS/ACS/DSC [Dynamic Stability Control]</b>	<b>ABS/ACS/DSC [动态稳定性控制]</b>	<b>E38/E39/E46/E53/E85/E83/R50 etc.</b>
S26-1	Lateral acceleration sensor	横向加速度传感器	
S26-2	Pressure sensors	压力传感器	
S26-3	All sensors	所有传感器	
S26-4	Connection,brake lines	连接, 制动管路	
S26-5	Connection,speed sensor	连接, 速度传感器	
S26-6	Ventilation	通风	
S26-7	Bleeding, ABS hydraulic modulator	排气, ABS液压调节器	
S26-8	Final check on ABS	最后检测ABS	
S26-9	Test procedures	测试步骤	
S26-10	rate of rotation sensor	转动率传感器	
S26-11	Steering angle sensor	转向角传感器	
S26-12	Bleeding,DSC hydraulics	排气, DSC (动态稳定控制) 液压系统	
S26-13	Control-unit replacement	控制单元更换	
S26-14	Mix-up checks,brake lines	混合检查, 制动管路	
S26-15	Bleeding the ABS/ASC hydraulic system	ABS (防抱死制动系统) /ASC (自动稳定性控制) 液压系统 排气	
S26-16	Reset ABS motor-relay clock counter	复位ABS (防抱死制动系统) 马达继电器时钟计数	
S26-17	Final ABS/ASC check	ABS/ASC最后检测	
S26-18	Bleeding procedure for special cases	特殊情况的排气程序	
S26-19	Brake bleeding procedure	制动排气程序	
S26-20	Mix-up checks,brake lines	混合检查, 制动管路	
S26-21	Adjustment of DSC sensor	DSC (动态稳定性控制系统) 传感器的调节	
S26-22	Adjustment,DSC unit	DSC (动态稳定性控制) 装置 调节	
S26-23	Steering angle sensor adjustment	转向角传感器调节	
S27	<b>ABS/ACS/DSC [Dynamic Stability Control]</b>	<b>ABS/ACS/DSC [动态稳定性控制]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S27-1	Bleeding,DSC hydraulics	排气, DSC (动态稳定控制) 液压系统	
S27-2	Dynamic Stability Control autocoding	动态稳定控制系统自动编码	
S27-3	Adjustment of DSC sensor	DSC (动态稳定性控制系统) 传感器的调节	
S27-4	Adjustment,DSC unit	DSC (动态稳定性控制) 装置 调节	
S27-5	Brake bleeding procedure	制动排气程序	
S27-6	Bleeding procedure for special cases	特殊情况的排气程序	
S27-7	Mix-up checks,brake lines	混合检查, 制动管路	
S27-8	Steering angle sensor adjustment	转向角传感器调节	

S27-9	Run Flat Indicator	轮胎低压续跑指示器	
S28	<b>ABS/ACS/DSC [Dynamic Stability Control]</b>	<b>ABS/ACS/DSC [动态稳定性控制]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S28-1	Brake bleeding procedure	制动排气程序	
S28-2	Mix-up checks,brake lines	混合检查, 制动管路	
S28-3	DSC control unit adjustment	DSC (动态稳定控制) 控制单元调节	
S28-4	Brake bleeding procedure for special cases	特殊情况的排气程序	
S28-5	Adjustment of the driving dynamics sensors	动态行驶传感器匹配	
S29	<b>AL/AFS/ASA [Active steering/Active Front Steering]</b>	<b>AL/AFS/ASA [主动转向 /主动前转向]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S29-1	Start-up/alignment of active steering	启动主动转向/调整	
S30	<b>AL/AFS/ASA [Active steering/Active Front Steering]</b>	<b>AL/AFS/ASA [主动转向 /主动前转向]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S30-1	Start-up of active steering	主动转向系统的调试	
S31	<b>ICM [Integrated chassis management]</b>	<b>ICM [集成式底盘控制]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S31-1	Adjustment,ICM sensor system	ICM (一体化底盘管理系统) 传感器系统调节	
S31-2	Ride height adjustment	行车高度调节	
S32	<b>ARS [Dynamic Drive]</b>	<b>ARS [动态驱动]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S32-1	Fault,sensor,learn values	故障, 传感器, 学习值	
S32-2	Initial operation	初始操作	
	- Start startup	- 启动调试	
	- Startup fault	- 启动故障	
	- Warning,startup	- 预警, 启动	
S32-3	Learn sensor parameters	学习传感器参数	
	- Lateral acceleration sensor	- 横向加速度传感器	
	- Pressure sensor,front axle	- 压力传感器, 前轴	
	- Pressure sensor,rear axle	- 后桥压力传感器	
S32-4	Learn sensor zero point	学习传感器零值	
	- Lateral acceleration sensor	- 横向加速度传感器	
	- Pressure sensor,front axle	- 压力传感器, 前轴	
	- Pressure sensor,rear axle	- 后桥压力传感器	
S33	<b>EMF [Parking brake]</b>	<b>EMF [停车制动器]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S33-1	Assembly mode	总成模式	
S33-2	Workshop braking-in	工厂磨合	
S33-3	Positioning-travel check	定位行程检查	
S33-4	Execute brake-in program	执行制动程序	

S33-5	Workshop mode	修理厂模式	
S33-6	Initial operation	初始操作	
S34	<b>EMF [Parking brake]</b>	<b>EMF [停车制动器]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S34-1	Bedding-in procedure	匹配程序	
S34-2	Workshop mode	修理厂模式	
S34-3	Initial operation	初始操作	
S35	<b>EHPS [Electrically assisted steering]</b>	<b>EHPS [电动辅助转向]</b>	<b>R50</b>
S35-1	Measurement,resistance	测量, 电阻	
S36	<b>EPS [Electronic Power Steering]</b>	<b>EPS [电子动力转向]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S36-1	End stop	极限位置	
S36-2	Start-up, EPS unit	启动, EPS单元	
S36-3	Adjustment, steering-torque sensor	调整, 转向力矩传感器	
S37	<b>EPS [Electronic Power Steering]</b>	<b>EPS [电子动力转向]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S37-1	EPS start-up	EPS (电动机机械式助力转向系统) 调试	
S38	<b>EHC [Electronic Ride-Height Control]</b>	<b>EHC [电子高度控制]</b>	<b>E38/E39/E46/E53/E85 /E83/R50 etc.</b>
S38-1	Check,actuators	检查执行器	
S38-2	delete line mode	删除线模式	
S38-3	Inquiry,line mode	查询, 线模式	
S38-4	Ride height sensor check	行车高度传感器检查	
S38-5	Ride height adjustment	行车高度调节	
S38-6	Delete transport mode	取消运输模式	
S38-7	Inquiry,transport mode	查询, 运输模式	
S38-8	Warning lamp, pre-drive check (10s)	告警灯, 驱动前检查 (10s)	
S38-9	Warning lamp, pre-drive check (30s)	告警灯, 驱动前检查 (30s)	
S38-10	Check, air supply system	检查, 空气供给系统	
S38-11	Check, compressor relay	检查压缩机继电器	
S38-12	Check, solenoid valve	电磁阀检查	
S38-13	Check, supply, pressure accumulator	蓄压器供电检查	
S38-14	Check, valve, pressure accumulator	蓄压器阀检查	
S38-15	Vent pressure accumulator	排空蓄压器	
S39	<b>EHC [Electronic Ride-Height Control]</b>	<b>EHC [电子高度控制]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S39-1	Ride height sensor check	行车高度传感器检查	
S39-2	Check,air supply system	检查, 空气供给系统	
S39-3	Check,compressor,relay	检查, 压缩机, 继电器	
S39-4	Delete energy saving mode	删除能量保存模式	
S39-5	Check,raise/low function	检查, 升高/降低功能	
S39-6	Draining the air-spring bellows	排空空气拉伸箱	

S39-7	Filling the air-spring bellows	加注空气拉伸箱	
S39-8	Preparation, wheel/axle alignment	车轴测量准备工作	
S39-9	Ride height adjustment	高度匹配	
S40	<b>EHC [Electronic Ride-Height Control]</b>	<b>EHC [电子高度控制]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S40-1	Filling and discharging air from air bellows	空气波纹管的填充和排气	
S40-2	Ride height sensor check	行车高度传感器检查	
S40-3	Activate compressor	激活压缩机	
S41	<b>EDC/VDC [Damper Control]</b>	<b>EDC/VDC [减振器控制]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S41-1	Adjustment, shock absorber	减震器调节	
S41-2	Initial setting, switch-on state	初始设置, 接通状态	
S41-3	System startup after control-unit replacement	系统启动后, 控制单元更换	
S41-4	Ride height adjustment	行车高度调节	
S41-5	Vertical-acceleration-sensor adjustment	垂直加速度传感器的调整	
S42	<b>ICMV [Integrated Chassis Management]</b>	<b>ICMV [集成式底盘控制]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S42-1	Initial operation	初始操作	
	- Start startup	- 起动调试	
	- Start-up, fault evaluation	- 调试, 故障评估	
S42-2	Learn pressure sensors	学习压力传感器	
	- Adapt pressure sensors with fault evaluation	- 随着故障评估适应压力传感器	
S42-3	Self-diagnosis	自诊断	
	- Self-diagnosis, fault evaluation	- 自诊断, 故障评估	
	- Start self-diagnosis	- 启动自诊断	
S43	<b>CIM [Chassis Integration Module]</b>	<b>CIM [底盘综合模块]</b>	<b>E65</b>
S43-1	Calibration, Steering column	标定, 转向柱	
S44	<b>HSR [Rear-axle slip-angle control]</b>	<b>HSR [后轴打滑角度控制]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S44-1	HSR function check (deflection test)	HSR (后桥侧偏角控制系统) 功能检查 (偏转测试)	
S44-2	Rear axle wheel alignment	后桥车轮定位	
S44-3	Start-up HSR rotor position sensor	调试HSR (后桥侧偏角控制系统) 转子位置传感器	
S45	<b>SME [Accumulator management electronics]</b>	<b>SME [蓄压器控制电子]</b>	<b>F04</b>
S45-1	High-voltage safety check	高压安全性检查	
S45-2	Locate insulation fault	定位绝缘故障	

S46	<b>ZKE [Central body electronic]</b>	<b>ZKE [中央电脑系统]</b>	<b>E38/E39/E46/E53/E85/E83/R50 etc.</b>
S46-1	Set/delete opening limitation	设置/删除开度极限	
S46-2	Log remote control key on/off	启动/注销遥控钥匙	
S46-3	Anti-theft alarm system - DWA activation	防盗报警系统激活	
S46-4	Service action,general module 5	保养动作，通用模块5	
S46-5	Set/delete opening limitation	设置/删除开度极限	
S47	<b>SGM-ZGM/KGM/JBE/JBBF [Safety and Gateway Module (ZGM)]</b>	<b>SGM-ZGM/KGM/JBE/JBBF [安全和网关模块(ZGM)]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S47-1	Power window regulator	电动车窗调节器	
S47-2	Waking up the vehicle	唤醒车辆	
S47-3	Initialise rain sensor	初始化雨水传感器	
S47-4	DWA activation	防盗报警系统激活	
S48	<b>JBBF [Junction-box electronics]</b>	<b>JBBF [连接盒电子]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S48-1	Power window regulator	电动车窗调节器	
S48-2	Solar rain/light fogging sensor	雨水/阳光传感器	
S49	<b>SRS/SIM/MRS/ACSM [Safety and Gateway Module (SIM)]</b>	<b>SRS/SGM-SIM/MRS/ACSM [安全和信息模块(SIM)]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S49-1	Enable seat-occupancy mat, front passenger	启用前乘客座椅占用传感垫	
S49-2	Start system time:Satelitepassenger	启动系统时间：卫星式传感器	
S49-3	Trigger roll bar	触发翻车保护杆	
S49-4	Read coding data	读取编码数据	
S50	<b>SRS/SIM/MRS/ACSM [Safety and Gateway Module (SIM)]</b>	<b>SRS/SGM-SIM/MRS/ACSM [安全和信息模块(SIM)]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S50-1	Lock airbag	锁止安全气囊	
S50-2	Enable seat occupancy mat	启用座椅占用传感垫	
S51	<b>SZL [Switch center, steering column]</b>	<b>SZL [转向管柱开关中心]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S51-1	Steering wheel angle sensor adjustment	转向角传感器调节	
S52	<b>TMFA [Door module, driver]</b>	<b>TMFA [驾驶员门模块]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S52-1	Initialising the power windows	初始化电动车窗	
S53	<b>TMBF [Door module, front passenger]</b>	<b>TMBF [前乘客门模块]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S53-1	Initialising the power windows	初始化电动车窗	

S54	<b>HC/SWW [Lane change warning]</b>	<b>HC/SWW [变道警告]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S54-1	Initial operation,SWW sensor system	初始运行, SWW (换道报警装置) 传感器系统	
S55	<b>RSE [Rear Seat Entertainment]</b>	<b>RSE [后排座椅娱乐系统]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S55-1	Teach in radio remote control	学习无线电遥控	
S56	<b>RSE [Rear Seat Entertainment]</b>	<b>RSE [后排座椅娱乐系统]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S56-1	Teach in radio remote control	学习无线电遥控	
S56-2	Activate radio module	激活收音机模块	
S57	<b>TCU/ULF/TEL [Telematic Control unit]</b>	<b>TCU/ULF/TEL [信息通信控制单元]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S57-1	Log off CKPH	注销CKPH	
S57-2	Log on CKPH	登录CKPH	
S57-3	Initialized telematics services	初始化远程信息处理服务	
S57-4	Activate Bluetooth and emergency call	激活蓝牙和紧急呼叫	
S57-5	Correct volume	音量校正	
S57-6	Log handset in and off	登录听筒开/关	
S57-7	Log on snap-in adapter	登录管理单元适配器	
S57-8	TCU subsequent evaluation	TCU随后评估	
S57-9	Resetting BMW Assist	重置宝马辅助	
S57-10	Re-enabling BMW Assist	重启BMW辅助	
S58	<b>NAV [Navigation system]</b>	<b>NAV [导航系统]</b>	<b>E38/E39/E46/E53/E85 /E83/R50 etc.</b>
S58-1	Initialisation	初始化	
S58-2	DVD lock	DVD锁止	
S59	<b>NAV [Navigation system]</b>	<b>NAV [导航系统]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S59-1	DVD lock	DVD锁止	
S60	<b>DWA [Antitheft alarm system]</b>	<b>DWA [防盗警报系统]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S60-1	Anti-theft alarm system - DWA activation	防盗报警系统激活	
S61	<b>PM/MPM [(Micro) Power module]</b>	<b>PM/MPM [动力模块]</b>	<b>E65/E60</b>
S61-1	Register battery replacement	记录电池更换	
S62	<b>SHD [Sliding/tilting sunroof]</b>	<b>SHD [滑动/倾斜天窗]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S62-1	Initialise slide/tilt sunroof	初始化滑动/倾斜天窗	
S62-2	Delivery position	传输位置	

S63	<b>RLS [Rain/driving lights sensor]</b>	<b>RLS [雨量/阳光传感器]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S63-1	Initialise rain sensor	初始化雨水传感器	
S64	<b>WIM [Wiper module]</b>	<b>WIM [刮水器模块]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S64-1	Vent SRA	通风SRA	
S64-2	Windscreen wipers - Installation position	挡风玻璃雨刮器安装位置	
S65	<b>TMFAT [Door module, driver's door]</b>	<b>TMFAT [驾驶员侧车门模块]</b>	<b>E65</b>
S65-1	Initialise power window regulators	电动车窗调节器	
S66	<b>TMBFT [Door module, passenger door]</b>	<b>TMBFT [乘客门模块]</b>	<b>E65</b>
S66-1	Initialise power window regulators	电动车窗调节器	
S67	<b>TMFAH [Door module, driver's side rear]</b>	<b>TMFAH [驾驶员后侧车门模块]</b>	<b>E65</b>
S67-1	Initialise power window regulators	电动车窗调节器	
S68	<b>TMBFH [Door module, passenger's side rear]</b>	<b>TMBFH [乘客后侧门模块]</b>	<b>E65</b>
S68-1	Initialise power window regulators	电动车窗调节器	
S69	<b>EMALI [Left electric motor reel]</b>	<b>EMALI [左侧电子马达机轴]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S69-1	Motor-driven belt retractor, left -> Replace drive, left	电动安全带卷收器, 左	
S70	<b>EMARE [Right electric motor reel]</b>	<b>EMARE [右侧电子马达机轴]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S70-1	Motor-driven belt retractor, right -> Replace drive, right	电动安全带卷收器, 右	
S71	<b>FZD [Function Center, Roof]</b>	<b>FZD [天窗功能中心]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S71-1	Initialise slide/tilt sunroof	初始化滑动/倾斜天窗	
S71-2	Alarm triggers	警报触发器	
S72	<b>FZD [Function Center, Roof]</b>	<b>FZD [天窗功能中心]</b>	<b>F01/F10/F12/F20/F25/ F30/F15 etc.</b>
S72-1	Initialise slide/tilt sunroof	初始化滑动/倾斜天窗	
S73	<b>ALBFA [Active backrest width, driver]</b>	<b>ALBFA [主动式驾驶员靠背宽度]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S73-1	ALBFA initialization	ALBFA初始化	



S74	<b>ALBBF [Active backrest width, front passenger]</b>	<b>ALBBF [主动式前乘客靠背宽度]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S74-1	ALBBF initialization	ALBBF（前乘客主动式靠背宽度）初始化	
S75	<b>IKE/KOM/KOMBI [Instrument cluster]</b>	<b>IKE/IKI/KOM/KOMBI [仪表板]</b>	<b>E38/E39/E46/E53/E85/E83/R50 etc.</b>
S75-1	Reset service interval indicator	复位保养间隔指示器	
S76	<b>INSTR [Instrument cluster]</b>	<b>INSTR [仪表板]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S76-1	Instrument cluster system test	仪表自测试	
S77	<b>IKE/KOM/KOMBI [Instrument cluster]</b>	<b>IKE/IKI/KOM/KOMBI [仪表板]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S77-1	Instrument cluster system test	仪表自测试	
S78	<b>CD-GW/M-ASK-GW/CCC-GW/CHAMP-GW/RAD2-GW/CIC-GW [Gateway]</b>	<b>CD-GW/M-ASK-GW/CCC-GW/CHAMP-GW/RAD2-GW/CIC-GW [网关]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S78-1	MOST ring,save configuration	MOST环，保存配置	
S78-2	Turn,New Zealand	调谐器，新西兰	
S78-3	Creat boot file again	再创建引导文件	
S79	<b>CD/M-ASK-BO/RAD/CIC/RAD2-BO/CHAMP-BO/CCC-BO [Control Display / User interface]</b>	<b>CD/M-ASK-BO/RAD/CIC/RAD2-BO/CHAMP-BO/CCC-BO [控制显示器/用户接口]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S79-1	Turn, Japan	调谐器，日本	
S79-2	Restore delivery status	恢复交付状态	
S80	<b>CIC/CHAMP [Car headunit platform]</b>	<b>CIC/CHAMP [车头单元平台]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S80-1	Restore delivery status	恢复交付状态	
S80-2	Save configuration of MOST ring	保存MOST环的配置	
S80-3	Test function for map data	地图数据的测试功能	
S81	<b>SMFA [Seat module, driver]</b>	<b>SMFA [驾驶员座椅模块]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S81-1	Driver's side normalisation	驾驶员座椅标准化	
S82	<b>SMBF [Seat module, passenger]</b>	<b>SMBF [前乘客座椅模块]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S82-1	Front passenger side normalisation	前乘客座椅标准化	
S83	<b>SMFAH [Seat module, driver's side rear]</b>	<b>SMFAH [驾驶员侧后部座椅模块]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S83-1	Rear driver's side normalisation	驾驶员后座椅标准化	

S84	<b>SMBFH [Seat module, passenger's side rear]</b>	<b>SMBFH [前乘客侧后部座椅模块]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S84-1	Rear front passenger side normalization	前乘客后座椅标准化	
S85	<b>HKL [Rear-lid lift]</b>	<b>HKL [后行李箱盖提升装置]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S85-1	Initialisation,automatic tailgate actuation	初始化, 自动尾灯驱动	
S86	<b>HKL [Rear-lid lift]</b>	<b>HKL [后行李箱盖提升装置]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S86-1	Initialisation,automatic tailgate actuation	初始化, 自动尾灯驱动	
S87	<b>FRM [Footwell Module]</b>	<b>FRM [搁脚空间模块]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S87-1	Initialise power window	初始化电动车窗	
S87-2	VA calibration body general module	VA标定车身通用模块	
S88	<b>FRM [Footwell Module]</b>	<b>FRM [脚部空间模块]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S88-1	Initialise power window drive	初始化电动车窗驱动	
S88-2	Electric steering-column adjustment	电动转向柱调节	
	- Normalization	- 标准化	
	- Partial normalization	- 部分标准化	
S88-3	Initialise new headlight driver module and teach-in turn indicator	对大灯驱动器模块进行初始化设置并示教大灯中的LED	
S89	<b>VDC [Vertical Dynamics Management]</b>	<b>VDC [垂直动态管理]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S89-1	Initial operation	初始操作	
S90	<b>IHKA/IHCR [Integrated automatic heating/air conditioning]</b>	<b>IHKA/IHCR [集成自动加热/空调系统]</b>	<b>E38/E39/E46/E53/E85/E83/R50 etc.</b>
S90-1	Deactivate transport-lock function	解除运输锁功能	
S91	<b>IHKA/IHCR [Integrated automatic heating/air conditioning]</b>	<b>IHKA/IHCR [集成自动加热/空调系统]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S91-1	Refrigerant compressor run-in protection	压缩机激活保护	
S91-2	Rear-window roller blind	后窗卷帘	
S91-3	Operating parameter of evaporator temperature	蒸发器温度的运行参数	
S91-4	Readdress flap motors	重新编址风门马达	
S91-5	Electric steering-column adjustment	电动转向柱调节	
S91-6	flap motors	风门马达	

S92	<b>IHKA/IHKR [Integrated automatic heating/air conditioning]</b>	<b>IHKA/IHKR [集成自动加热/空调系统]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S92-1	Flap motors	风门马达	
	- Perform flap-motor calibration run	- 执行阀门马达标定运行	
	- Readdress flap motors	- 重新编址风门马达	
S92-2	Independent/auxiliary heater	独立/辅助加热器	
	- Adaptation, undervoltage limit	- 匹配低电压极限	
	- Unlocking	- 解锁	
S92-3	Run-in protection for A/C compressor	空调压缩机保护装置运行	
	- Air conditioning compressor initial operation	- 空调压缩机初始运行	
S93	<b>FKA [Rear heater/air conditioning]</b>	<b>FKA [后部加热器/空调]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S93-1	Drain/fill refrigerant circuit	排放/加注冷却液回路	
S94	<b>FKA [Rear heater/air conditioning]</b>	<b>FKA [后部加热器/空调]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S94-1	Drain/fill refrigerant circuit	排放/加注冷却液回路	
S95	<b>SHZH [Independent/auxiliary heater]</b>	<b>SHZH [停车预热/辅助加热装置]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S95-1	Independent/auxiliary heater	独立/辅助加热器	
	- Heating test run	- 加热测试运行	
	- unlocking	- 解锁	
S96	<b>BIT [Basis Interface Telephone]</b>	<b>BIT [基本接口电话]</b>	<b>E38/E39/E46/E53/E85/E83/R50 etc.</b>
S96-1	Change emergency number	更改紧急号码	
S96-2	Log handset on/off	登录听筒开/关	
S96-3	Log handset on/off	登录听筒开/关	
S96-4	Re-enabling BMW assist	重启BMW辅助	
S97	<b>AIC [Automatic Interval Control]</b>	<b>AIC [刮水器自动间歇控制]</b>	<b>E38/E39/E46/E53/E85/E83/R50 etc.</b>
S97-1	Initialise rain sensor	初始化雨水传感器	
S98	<b>ZGW [Central Gateway Module]</b>	<b>ZGW [中央网关模块]</b>	<b>F01/F10/F12/F20/F25/F30/F15 etc.</b>
S98-1	Initialize FlexRay	初始化FlexRay	
S99	<b>URS [Rollover sensor]</b>	<b>URS [防翻滚传感器]</b>	<b>E38/E39/E46/E53/E85/E83/R50 etc.</b>
S99-1	Rollover sensor	翻车传感器	
S100	<b>SMFA [Seat module, driver]</b>	<b>SMFA [驾驶员座椅模块]</b>	<b>E60/E65/E70/E71/E84/E87/E90/R56 etc.</b>
S100-1	Standardisation of seat	座椅标准化	

S101	<b>SMBF [Seat module, passenger]</b>	<b>SMBF [前乘客座椅模块]</b>	<b>E60/E65/E70/E71/E84 /E87/E90/R56 etc.</b>
S101-1	Standardisation of seat	座椅标准化	