

## WIN-STAR Diagnostic system Function List----ET-Europe-A

WIN-STAR kit, including of :

UPDATE 2005/5/20

1. Multiplexer box.
2. Cables, including of :
  - a. RS232 Cable (from PC or Notebook to multiplexer box)
  - b. 16 PIN cable (from multiplexer box to vehicle)
  - c. 38 PIN cable (from multiplexer box to vehicle) for BENZ
  - d. 4 PIN cable (from multiplexer box to vehicle) for BENZ
  - e. 20 PIN cable (from multiplexer box to vehicle) for BMW
  - f. 2X2 PIN cable (from multiplexer box to vehicle) for AUDI/VW/SKODA/SEAT
  - g. Extension cable for signal (to connect yellow connector of 4 pin cable)
3. Instruction manual.
4. Suit case.

### BENZ

Software version : V2

System	Model																Function									
	ECU	129	163	168	170 16pin38pin	202	203	208	209	210	211	215	220	230	414	463	638	639	ECU model	Read DTC	Erase DTC	Live data	Reset	Coding	Actuation	Short test
<b>Powertrain</b>																										
Automatic transmission(AG)																			v	v	v	v				
Automatic transmission commercial vehicles(AGN)																	v		v	v	v	v				
Automatic transmission(EGS)	v	v		v	v	v	v		v		v	v	v						v	v	v	v	v	v		v
Automatic transmission(EGS52)		v		v		v	v	v	v	v	v	v	v			v			v	v	v	v	v	v		v
Easy-shift manual transmission(KSG)						v	v	v		v								v	v	v	v	v				v
Electronic selector level module(EWM203)						v		v											v	v	v	v				v
Electronic selector level module (EWM_H)		v		v		v		v		v						v			v	v	v	v	v			v
Electronic selector level module (EWM220)											v	v	v						v	v	v	v				v
Transfer case(VG)			v																v	v	v	v				
Transfer case(VGS463)																v			v	v	v					
Motor electronics(ME20) M113												v	v					v	v	v	v	v	v			v
Motor electronics(ME1_H)Left Cylinder M120		v																	v	v	v					
Motor electronics(ME1_H)Right Cylinder M120		v																	v	v	v					
Motor electronics(ME2_H) M111,M112,M104		v	v		v	v	v		v		v	v					v		v	v	v	v	v			v
Motor electronics(ME27) M137												v	v						v	v	v	v				v
Motor electronics(ME28) M111,M112,M113			v		v	v	v	v	v	v	v	v	v				v		v	v	v	v	v			v
Motor electronics(SIM4) M111				v		v	v	v		v									v	v	v	v	v			v
Motor electronics(SIM4LSE) M111						v		v	v	v									v	v	v	v	v			v
Engine control module(ECM)				v															v	v	v	v				
Hot film engine management (HFM)		v				v				v									v	v	v	v	v	v		v
V6 engine control																			v	v	v	v				
Distronic(DTR)									v		v	v	v	v					v	v	v					v
Common-Rail Diesel injection(CDI 1)				v		v													v	v	v	v				
Common-Rail Diesel injection(CDI 2)			v				v		v	v						v			v	v	v	v				
Common-Rail Diesel injection(CDI 3)										v		v							v	v	v	v				
<b>Common-Rail Diesel injection(CDI V1)</b>			v										v			v			v	v	v	v				
<b>Drive authorization system shut-off valve(ASF/DSV)</b>																			v	v	v	v				
<b>Diesel electronic in-line fuel injection(IF/ERE)</b>						v				v						v	v		v	v	v	v				

System	Model																Function										
	ECU	129	163	168	170		202	203	208	209	210	211	215	220	230	414	463	638	639	ECU model	Read DTC	Erase DTC	Live data	Reset	Coding	Actuation	Short test
				16pin	38pin																						
<b>Diesel electronic distributor-type fuel injection (EVE/DFI)</b>						v				v									v	v	v	v					
<b>Chassis</b>																											
Active body control(ABC)												v	v	v					v	v	v	v					v
Suspension(AIRmatic)														v					v	v	v	v		v	v		v
Traction systems(ABS30_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Traction systems(ABS30_L)																			v	v	v	v					
Traction systems(ABS50)																			v	v	v	v					
Automatic clutch system(ACS)				v															v	v	v	v					
Traction systems (ASR30_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Traction systems (ASR34_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Brake assist system(BAS_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Brake assist system (BAS203)	v	v	v	v	v	v	v	v											v	v	v	v					v
Electronic stability program(ESP)												v	v		v	v			v	v	v	v					v
Electronic stability program (ESP203)					v		v	v		v									v	v	v	v					v
Sensotronic Brake Control(SBC)											v				v				v	v	v	v			v		
Electronic stability program (ESP30_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Electronic stability program (ESP34_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Electronic stability program (ESP35_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Electronic stability program (ESPMK25)					v		v		v										v	v	v	v					v
Electronic stability program (ESP230)											v				v				v	v	v	v					
Traction systems(ETS30_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Traction systems(ETS34_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Gear recognition module(GRM)					v														v	v	v	v					
Front transmission control(FTC)					v														v	v	v	v					
Vacuum pump(VP)					v		v	v		v									v	v	v	v					v
Tire pressure control(TPC)												v	v	v					v	v	v	v					v
<b>Body</b>																											
Airbag(Armin)	v	v	v	v				v		v		v	v	v		v		v	v	v	v	v					v
Airbag (Arminca)							v		v										v	v	v	v					v
Airbag																v			v	v	v	v					
Airbag (ZAE_H)	v	v	v	v	v	v		v		v									v	v	v	v					v
Airbag(AB2TR)			v																v	v	v	v					
Overhead control panel(OCP) [DBE1_H]						v		v		v									v	v	v	v					v
Overhead control panel(OCP) [DBE203]							v		v										v	v	v	v					v
Overhead control panel(OCP) [DBE220]											v	v							v	v	v	v					v
Overhead control panel(OCP) [DBE230]														v					v	v	v	v					
Overhead control panel(OCP) [DBE463]																			v	v	v	v					
Electronic ignition switch(EIS) [EZS1_H]						v		v		v									v	v	v	v					v
Electronic ignition switch(EIS) [EZS203]							v		v										v	v	v	v					v
Electronic ignition switch(EIS) [EZS220]												v	v						v	v	v	v					v
Electronic ignition switch(EIS) [EZS230]															v				v	v	v	v					
Electronic ignition switch(EIS) [EZS463]																			v	v	v	v					
Headlamp range adjustment(HRA220)												v	v						v	v	v	v					v
Headlamp range adjustment(HRA_H)	v					v		v		v									v	v	v	v					
Headlamp range adjustment(HRA230_FL)										v									v	v	v	v					
Headlamp range adjustment(HRA230_FR)															v				v	v	v	v					
Lower control panel(LCP) [UBF1_H]						v		v		v									v	v	v	v					v
Lower control panel(LCP) [UBF2_H]				v															v	v	v	v					
Lower control panel(LCP) [UBF203]							v		v										v	v	v	v					v
Upper control panel(UCP) [OBF203]							v		v										v	v	v	v					v
Immobilizer (with transponder) [WSP]																			v	v	v	v					
Upper control panel(UCP) [OBF220]												v	v						v	v	v	v					v

System	Model																Function										
	129	163	168	170		202	203	208	209	210	211	215	220	230	414	463	638	639	ECU model	Read DTC	Erase DTC	Live data	Reset	Coding	Actuation	Short test	
ECU				16pin	38pin																						
Pneumatic system equipment(PSE) [PSE1_H]						v		v		v								v	v	v	v				v		
Pneumatic system equipment(PSE)											v	v						v	v	v	v				v		
Pneumatic system equipment(PSE)				v	v													v	v	v	v						
Pneumatic system equipment(PSE230)														v				v	v	v							
Signal acquisition and actuation module(SAM1_H)						v		v		v								v	v	v	v				v		
Front-left signal acquisition and actuation module (SAM-FL220)											v	v						v	v	v	v				v		
Front-right signal acquisition and actuation module(SAM-FR220)											v	v						v	v	v	v				v		
Rear signal acquisition and actuation module (REAR-SAM220)											v	v						v	v	v	v				v		
Front signal acquisition and actuation module(SAM-F203)							v		v									v	v	v	v				v		
Rear signal acquisition and actuation module (REAR-SAM203)							v		v									v	v	v	v				v		
Front-left signal acquisition and actuation module (SAM-FL230)														v				v	v	v							
Front-right signal acquisition and actuation module(SAM-FR230)														v				v	v	v							
Rear signal acquisition and actuation module (REAR-SAM230)														v				v	v	v							
Front signal acquisition and actuation module(SAMV463)																v		v	v	v							
Rear signal acquisition and actuation module (SAMH463)																	v	v	v	v							
Vehicle power supply control module(BNS230)														v				v	v	v							
Roller bar/vario roof control module(RVC)														v				v	v	v							
Trailer recognition(AHE) [AAG203]						v	v		v								v	v	v	v					v		
Trailer recognition(AHE) [AAG220]								v				v	v					v	v	v					v		
Trailer recognition(AHE) [AAG463]																	v	v	v	v							
KEYLESS GO												v	v	v				v	v	v	v				v		
Special vehicle multifunction control module(SVMCM) [MSS_H]						v				v								v	v	v					v		
Special vehicle multifunction control module(SVMCM) [MSS_203]							v		v									v	v	v					v		
Special vehicle multifunction control module (SVMCM) [MSS_220]											v	v						v	v	v					v		
Radio frequency locking(RFL) [DAS2.0]				v	v													v	v	v					v		
Radio frequency locking(RFL) [DAS2a]	v		v	v	v													v	v	v	v						
Radio frequency locking(RFL) [DAS2b]	v		v															v	v	v	v						
Radio frequency locking(RFL) [DAS2x]														v	v			v	v	v							
Multifunction control module(CCM)				v	v													v	v	v	v						
All activity module(AAM)		v																v	v	v	v						
Extended activity module(EAM)		v																v	v	v	v						
Roadster soft top (RV)	v																	v	v	v	v						
Vario roof(VD_H)				v	v													v	v	v	v						
Anti-theft alarm(ATA) (EDW2_H)	v		v															v	v	v							
Anti-theft alarm(ATA) (EDZ_H)				v														v	v	v	v						
<b>Information &amp; communication</b>																											
Instrument cluster module(ICM) [KI203]							v											v	v	v	v	v			v		
Instrument cluster module(ICM) [KI220]											v	v						v	v	v	v	v			v		
Instrument cluster module(ICM K2)											v	v						v	v	v	v	v			v		
Instrument cluster module(ICM) [KI414]														v				v	v	v							
Instrument cluster module(ICM) [KIW_H]	v	v	v	v	v	v		v		v								v	v	v	v	v					

System	Model																	Function											
	ECU		129	163	168	170		202	203	208	209	210	211	215	220	230	414	463	638	639	ECU model	Read DTC	Erase DTC	Live data	Reset	Coding	Actuation	Short test	
					16pin	38pin																							
Instrument cluster module(KI) [KIL]	v		v						v		v						v			v	v	v	v	v					
Instrument cluster module(KI230)															v					v	v	v	v						
Steering column module(SCM203)								v												v	v	v	v					v	
Steering column module(SCM220)													v	v						v	v	v	v					v	
Parktronic(PTS_H)				v			v		v		v									v	v	v	v					v	
Parktronic(PTS203)								v		v										v	v	v	v					v	
Parktronic(PTS220)									v				v	v						v	v	v	v					v	
Parktronic(PTS230)															v					v	v	v	v					v	
Parktronic(PTS414)																v				v	v	v	v					v	
COMAND(D2B)	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
CD changer(CDC)	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v					v	
Cellular telephone(CTEL)	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v					v	
TV tuner(TV)											v									v	v	v	v					v	
<b>Seats &amp; doors</b>																													
Central Locking (CL)																v				v	v	v	v						
Front-left electric seat adjustment(ESA-FL) (ESV1L_H)							v		v		v									v	v	v	v					v	
Front-right electric seat adjustment(ESA-FR) (ESV1R_H)							v		v		v									v	v	v	v					v	
Front-left electric seat adjustment(ESA-FL203)								v												v	v	v	v					v	
Front-right electric seat adjustment(ESA-FR203)								v												v	v	v	v					v	
Rear electric seat adjustment(ESA-R220)														v						v	v	v	v					v	
Front-left electric seat adjustment (ESA-FL220)														v						v	v	v	v					v	
Front-right electric seat adjustment(ESA-FR220)														v						v	v	v	v					v	
Front-left electric seat adjustment (ESA-FL215)													v							v	v	v	v					v	
Front-right electric seat adjustment(ESA-FR215)													v							v	v	v	v					v	
Front-left electric seat adjustment (ESA-FL230)															v					v	v	v	v					v	
Front-right electric seat adjustment(ESA-FR230)															v					v	v	v	v					v	
Front-left multicontour backrest(OSB-FL220)														v						v	v	v	v					v	
Front-right multicontour backrest(OSB-FR220)														v						v	v	v	v					v	
Rear multicontour backrest(OSB-R220)														v						v	v	v	v					v	
Front-left multicontour backrest(OSB-FL215)													v		v					v	v	v	v					v	
Front-right multicontour backrest(OSB-FR215)													v		v					v	v	v	v					v	
Rear control module(RCM)										v			v							v	v	v	v					v	
Front-left door control module(DCM-FL) [TSG2VL]				v																v	v	v	v					v	
Front-right door control module(DCM-FR) [TSG2VR]				v																v	v	v	v					v	
Rear-left door control module(DCM-RL) [TSG2HL]				v																v	v	v	v					v	
Rear-right door control module(DCM-RR) [TSG2HR]				v																v	v	v	v					v	
Front-left door control module(DCM-FL) [TSGVL_H]							v		v		v									v	v	v	v					v	
Front-right door control module(DCM-FR) [TSGVR_H]							v		v		v									v	v	v	v					v	
Rear-left door control module(DCM-RL) [TSGHL_H]							v		v		v									v	v	v	v					v	
Rear-right door control module(DCM-RR) [TSGHR_H]							v		v		v									v	v	v	v					v	
Front-left door control module(DCM-FL) [TSGVL203]								v												v	v	v	v					v	
Front-right door control module(DCM-FR) [TSGVR203]								v												v	v	v	v					v	
Rear-left door control module(DCM-RL) [TSGHL203]								v												v	v	v	v					v	
Rear-right door control module(DCM-RR) [TSGHR203]								v												v	v	v	v					v	
Front-left door control module(DCM-FL) [TSGVL220]													v	v						v	v	v	v					v	
Front-right door control module(DCM-FR) [TSGVR220]													v	v						v	v	v	v					v	
Rear-left door control module(DCM-RL) [TSGHL220]														v						v	v	v	v					v	
Rear-right door control module(DCM-RR) [TSGHR220]														v						v	v	v	v					v	
Front-left door control module(DCM-FL) [TSGVL230]															v					v	v	v	v					v	
Front-right door control module(DCM-FR) [TSGVR230]															v					v	v	v	v					v	
<b>Air conditioning</b>																													
Stationary heater(STH) [STH_H]	v	v	v	v			v		v	v				v						v	v	v	v					v	
Stationary heater(STH)									v											v	v	v	v					v	

System	Model																Function											
	ECU		129	163	168	170		202	203	208	209	210	211	215	220	230	414	463	638	639	ECU model	Read DTC	Erase DTC	Live data	Reset	Coding	Actuation	Short test
						16pin	38pin																					
Stationary heater(STH) [STH_H]	v	v	v	v			v		v	v				v			v			v	v	v					v	
Stationary heater(STH)								v									v			v	v	v					v	
Stationary heater(STH)													v							v	v	v						
Automatic air conditioning(AAC) [KLA_H]	v				v	v	v		v		v									v	v	v	v		v		v	
Automatic air conditioning(AAC) [KLA203]								v		v										v	v	v	v	v		v	v	
Automatic air conditioning(AAC) [KLA220]													v	v						v	v	v	v			v	v	
Automatic air conditioning(AAC) [KLA230]															v					v	v	v	v					
Automatic air conditioning(AAC) [KLA414]				v												v				v	v	v	v					
Rear air conditioning(REAR AC)														v						v	v	v				v	v	
Automatic temperature control(TAC)					v	v			v											v	v	v	v		v	v	v	
Heater control(HRZ)																		v		v	v	v	v					

**BENZ**

Software version : HHT

System	Model													Function						
	ECU		107	124	124 034/036		126	129	140	170	201	202	210	414	638	ECU MODEL	READ DTC	ERASE DTC	LIVE Data	CODING
<b>Powertrain</b>																				
Common rail diesel injection(CDI)														v	v	v	v	v		
Automatic transmission(AG)															v	v	v	v		
Automatic transmission commercial vehicles(AGN)														v	v	v	v	v		
Hot film engine management (HFM)		v				v	v	v		v	v				v	v	v	v	v	v
Pressure fuel injection system (PMS)		v								v					v	v	v	v	v	v
Electronic accelerator (EFP)		v		v		v	v			v	v				v	v	v	v	v	v
Base Module (GM)				v		v	v								v	v	v	v	v	v
Hot wire fuel injection system (LH1)				v		v	v								v	v	v	v	v	v
Hot wire fuel injection system (LH2)				v		v	v								v	v	v	v	v	v
Ignition system (EZ1)				v		v	v								v	v	v	v	v	v
Motor electronics Left (ME1_L)						v	v								v	v	v	v	v	v
Motor electronics Right (ME1_R)						v	v								v	v	v	v	v	v
Motor electronics (ME2_H)						v	v	v		v	v			v	v	v	v	v	v	v
Motor electronics(ME28) M111,M112,M113															v	v	v	v	v	v
Automatic transmission(EGS52)															v	v	v	v	v	v
Engine control module(ECM)													v		v	v	v	v	v	v
Drive authorization system shut-off valve(ASF/DSV)							v								v	v	v	v	v	v
Diesel electronic in-line fuel injection(IFI/ERE)							v							v	v	v	v	v	v	v
Diesel electronic distributor-type fuel injection (EVE/DFI)							v								v	v	v	v	v	v
<b>Body</b>																				
Airbag(Armin)	v														v	v	v	v	v	v
Airbag (AB)	v	v		v		v	v	v	v	v					v	v	v	v	v	v
Airbag (ZAE)										v	v		v		v	v	v	v	v	v
ATA Anti-Theft Alarm (ATA_L)		v		v		v	v	v		v					v	v	v	v	v	v
Anti-theft control module (ATA)											v				v	v	v	v	v	v
COMAND (D2B)							v		v						v	v	v	v	v	v
Drive Authorization System (DAS2.0)							v	v	v		v	v			v	v	v	v	v	v

System	Model													Function					
	ECU	107	124	124 034/036	126	129	140	170	201	202	210	414	638	ECU MODEL	READ DTC	ERASE DTC	LIVE Data	CODING	RESET
Drive Authorization System (DAS2.a)					V	V	V		V	V				V	V	V	V	V	
Drive Authorization System (DAS2.b)					V	V	V		V	V				V	V	V	V		
Drive Authorization System (FBS414)														V	V	V	V		
Instrument cluster with maintenance interval display (KIL)					V									V	V	V	V		V
Trailer recognition(AHE) [AAG203]														V	V	V			
Instrument cluster with maintenance interval display (KIW)					V	V	V		V	V				V	V	V	V		V
Headlamp range adjustment (LWR)					V	V			V	V				V	V	V	V		
Roadster Soft Top (RV)					V									V	V	V	V		
Convenience feature (KFB_L)						V								V	V	V	V		
Convenience feature (KFB)										V				V	V	V	V		
Pneumatic System Equipment (PSE_L)						V								V	V	V	V	V	
Pneumatic System Equipment (PSE)							V			V				V	V	V	V		
Parktronic system (PTS)						V				V				V	V	V	V		
Multifunction control module (CCM_L)							V							V	V	V	V		
Multifunction control module (CCM)										V				V	V	V	V	V	
Vario roof (VR)							V							V	V	V	V		
Power Seat Adjustment (ESV1)										V				V	V	V	V		
Power Seat Adjustment (ESV2)										V				V	V	V	V		
Remote Central Locking (RCL) [DAS1.X]		V		V		V	V		V	V				V	V	V	V		
Immobilizer (with transponder) [WSP]												V		V	V	V	V		
<b>Chassis</b>																			
Anti-lock braking system (ABS30)					V	V	V		V	V				V	V	V			
Anti-lock braking system (ABS30_L)			V		V	V	V		V	V				V	V	V	V		
ASR Anti slip regulation System (ASR30)					V	V			V	V				V	V	V	V		
ASR Anti slip regulation System (ASR34)					V	V			V	V				V	V	V	V		
ASR Anti slip regulation System (ASR34_L)			V		V	V			V	V				V	V	V	V		
ASR Anti slip regulation System (ASR30_L)			V		V	V			V	V				V	V	V	V		
Adaptive Damping System (ADS)					V	V								V	V	V	V		
Electronic Traction System (ETS30)					V	V			V	V				V	V	V	V		
Electronic Traction System (ETS34)					V	V			V	V				V	V	V	V		
Electronic Traction System (ETS30_L)			V		V	V			V	V				V	V	V	V		
Electronic Traction System (ETS34_L)			V		V	V			V	V				V	V	V	V		
Brake assist (BAS)					V	V	V		V	V				V	V	V	V		
Automatic Locking Differential (ASD)		V			V	V			V					V	V	V	V		
Speed control Steering (PML)						V								V	V	V	V		
Electronic stability program (ESP34)					V	V			V	V				V	V	V	V		
Electronic stability program (ESP35)					V	V			V	V				V	V	V	V		
Electronic transmission Control (EAG 722.5)		V			V	V			V	V				V	V	V	V		
Electronic transmission Control (EAG 722.6)					V	V	V			V				V	V	V	V	V	V
<b>Information &amp; communication</b>																			
Instrument cluster module(ICM) [KI414]											V			V	V	V			
Parktronic(PTS414)											V			V	V	V			
COMAND(D2B)											V			V	V	V	V	V	
CD changer(CDC)											V			V	V	V			
Cellular telephone(CTEL)											V			V	V	V			
<b>AIR Conditioning</b>																			

System	Model													Function					
	ECU													ECU MODEL	READ DTC	ERASE DTC	LIVE Data	CODING	RESET
	107	124	124 034/036			126	129	140	170	201	202	210	414	638					
Automatic air conditioning (KLA)						V	V			V	V			V	V	V	V	V	
Automatic air conditioning (KLA_L)							V							V	V	V	V		
Automatic air conditioning (KLA202)										V				V	V	V	V	V	
Automatic air conditioning (KLA414)														V	V	V			
Automatic temperature control (TAU)								V		V				V	V	V	V	V	
Automatic temperature control (TAU_L)										V				V	V	V	V	V	
Heater control(HZR)													V	V	V	V	V		

## BENZ

Software version : E1

System	Model																Function				
	ECU																ECU model	Read DTC	Erase DTC	Live data	Coding
	129	163	168	170		202	203	208	209	210	211	215	220	230	463	Sprinter					
			16pin	38pin																	
<b>Powertrain</b>																					
Automatic transmission(EGS)	v	v		v	v	v	v	v		v		v	v	v	v		v	v	v	v	
Automatic transmission(EGS52)		v		v			v	v		v	v	v	v	v	v		v	v	v	v	
Motor electronics(ME20) M113											v	v					v	v	v	v	
Motor electronics(ME2_H) M111,M112,M104	v	v		v	v	v		v		v	v						v	v	v	v	
Motor electronics(ME27) M137											v	v					v	v	v	v	
Motor electronics(ME28) M111,M112,M113		v		v		v	v	v		v	v	v	v	v	v		v	v	v	v	
Motor electronics(SIM4) M111				v		v	v	v		v							v	v	v	v	
Hot film engine management (HFM)	v					v				v							v	v	v	v	
Common-Rail Diesel injection(CDI 1)			v			v											v	v	v	v	
Common-Rail Diesel injection(CDI 2)		v					v		v	v			v		v		v	v	v	v	
Common-Rail Diesel injection(CDI 3)										v			v				v	v	v	v	
Common-Rail Diesel injection(CDI V1)		v											v		v		v	v	v	v	
Drive authorization system shut-off valve(ASF/DSV)																	v	v	v	v	
Diesel electronic in-line fuel injection(IF/ERE)						v				v					v		v	v	v	v	
Diesel electronic distributor-type fuel injection (EVE/DFI)						v				v							v	v	v	v	
<b>Body</b>																					
Radio frequency locking(RFL) [DAS2a]	v		v	v	v												v	v	v	v	v

## BMW

DTC Language : English, Chinese, Japanese, German, French, Portuguese

● Short test: E36, E38, E39, E46, E53, E60, E63/E64, E65/E66

● Air Bag Short test: E60, E63/E64, E65/E66

● Oil Reset: E38, E39, E46

● CBS: E60, E65

System	Car Model	Function						
ECU		ECU model	Read DTC		Erase DTC	Live Data	Actuation	Service function
			DTC	Language				
<b>Powertrain</b>								
Digital Motor Electronics(DME)	Old Car	V	V	V	V	V		● Code control unit ● CO Adjustment
Digital Motor Electronics(DME)	E36,E38,E39,E46, E52,E53,E83,E85	V	V	V	V	V		● EWS_DME adjustment ● Clear adaptations ● Repair Instruction ● Clear mixture Adaptation
<b>System</b>								
System	Car Model	Function						
ECU		ECU model	Read DTC		Erase DTC	Live Data	Actuation	Service function
			DTC	Language				
Digital diesel electronics(DDE)	Old Car,E36,E38,E39,E46,E53	V	V	V	V	V		● Repair Instruction
Diesel Electronics3.0(DDE DDE3.0)	E39 ,E46	V	V	V	V	V	V	
Diesel Electronics4(DDE DDE 4)	E38,E39,E46,E53	V	V	V	V	V	V	● EWS DME adjustment
Digital Diesel Electronics(DDE EU4)	E83,E46	V			V			
Electronic transmission control(AGS / EGS)	Old Car	V	V	V	V	V		● ATF Oil Change
Transmission control(EGS)	E38,E39,E46,E52,E83,E85	V	V	V	V	V	V	● Clear Adaptation
GS20	E36,E39,E46	V	V	V	V	V	V	● Clear Adaptation
Electronic transmission control(AGS / EGS/SMG)	E36	V	V	V	V	V	V	● Clear Adaptation
Sequential(SMG)	E36,E46,E85	V	V	V	V	V	V	
<b>Chassis</b>								
Anti-lock brake system /Automatic stability control(ABS / ASC)	Old Car,E36,E38,E39,E46	V	V	V	V	V		● ABS Brake Lining Warning Lamp
Dynamic Stability Control(DSC)	E38,E39,E46,E52,E83,E85	V	V	V	V	V		● ABS Brake Lining
Dynamic Stability Control 5.7(DSC 5.7)	E46,E53	V	V	V	V	V	V	● ABS Brake Lining
Dynamic Stability Control 8(DSC 8)	E53	V	V	V	V	V	V	
Dynamic Stability Control MK20(DSC MK20)	E46	V	V	V	V	V		● ABS Brake Lining
Dynamic Stability Control MK60(DSC MK60)	E36,E46	V	V	V	V	V	V	
<b>Body</b>								
AIRBAG(AB)	Old Car	V	V	V	V	X		
AIRBAG(AB)	E36,E38,E39	V	V	V	V	V		
Multiple restraint system II(MRS II)	E38,E39,E46	V	V	V	V	V		
Multiple restraint system III/IV(MRSIII/IV)	E36,E38,E46,E39,E52,E53	V	V	V	V	V		
Multiple restraint system V(MRS V)	E83	V	V	V	V			
Integrated Automatic Heater(IHKA)	E36,E38,E39,E46,E53,E83,E85	V	V	V	V	V	V	● Read coding data
IHKRHeater and A/C control(IHKR)	E38,E39,E46,E53,E83	V	V	V	V	V	V	● Read coding data
Heater -A/C control(IHKS)	E52,E85	V	V	V	V	V	V	

## BMW E60/E65 Short test Function List

System			Short test	
	ECU	E60	E65	Read DTC
<b>Powertrain</b>				
Digital Motor Electronics(DME)	V	V	V	V
Car Access System(CAS)	V	V	V	V
Electronic transmission control(AGS / EGS)	V	V	V	V
Sequential Manual Gearbox(SMG)	V			V
Valvetronic(VTC)		V		V
Valvetronic2(VTC2)		V		V
<b>Chassis</b>				
Active Cruise Control(ACC)	V	V		V
Active Front Steering(AFS)	V	V		V
Dynamic Drive(ARS)	V	V	V	V
Dynamic Drive 2(ARS)	V	V	V	V
Dynamic Stability Control(DSC)	V	V	V	V
Tire pressure control(RDC)	V	V		V
Chassis Integration Module(CIM)		V		V
Chassis Integration Module2(CIM2)		V	V	V
Damper Control(EDC)		V		V
Ride level (height) control(EHC)		V	V	V
Parking brake(EMF)		V	V	V
<b>Body</b>				
Adaptive directional headlights(AHL)	V	V	V(E60)	V(E60)
Trailer module(AHM)	V	V		V
Control center, center console(BZM)		V		V
Rear compartment,control center ,center console(FBZM)		V		V
Comfort Access(CA)	V	V		V
CAN/byeflight	V		V	X
Controller(CON)	V	V		V
Rear compartment controller(FCON)		V		V
Antitheft alarm system(DWA)	V	V		V
Rear-lid lift(HKL)		V	V	V
Body basic module(KBM)	V			V
Headset interface(KHI)	V	V		V
Lights Module(LM)		V		V
Lights Module 2(LM2)	V	V	V	V
Park Distance Control(PDC)	V	V	V	V
Power Module(PM)		V		V
Mico -power module (MPM)	V			V
Rain/Light Sensor(RLS)	V	V		V
Supplimentary control module(SEC)		V		V
Supplimentary control module 2(SEC2)		V		V

System			Short test		
	ECU	E60	E65	Read DTC	Erase DTC
Control module,rear-compartment display(SG-FD)			√		√
Control module,rear-compartment display (Gateway) [SG-FD-GW]			√		√
Sliding/tilting sunroof(SHD)	√		√		√
Sliding/tilting sunroof 2(SHD2)			√		√
Siren and tilt sensor(SINE)	√		√		√
Switch center,steering column(SZL)	√		√		√
Switching center,center console(SZM)	√				√
Wiper module(WIM)			√		√
<b>Information &amp; communication</b>					
Amplifier (AMP)	√		√		√
Antenna/antenna tuner (ANT)			√		√
Audio system controller (ASK)			√		√
Applications (CCC-A)	√				
Antenna tuner (CCC-ANT)	√				
Audio system controller (CCC-ASK)	√				
User interface (CCC-BO)	√				
Gateway (CCC-GW)	√				
Control Display (CD)			√		
CD Changer (CDC)	√		√		√
Control Display (Gateway) [CD-GW]			√		√
Central information Display (CID)	√				√
DVD Changer (DVDC)	√		√		
Rear-compartment display(FD)	√		√		
Head-Up Display (HUD)	√				
Instrument cluster (INSTR)	√		√		√
Japan Basis Interface Telephone (JBIT)			√		
Navigation system (NAV)			√		
Navigation system,Japan (JNAV)	√		√		
User interface (M-ASK-BO)	√		√		√
Gateway (M-ASK-GW)	√		√		√
Navigation system (M-ASK-NAV)	√				
Satellite vehicle center (SFZ)	√		√		√
Satellite,A-pillar,left (SASL)			√		√
Satellite,A-pillar,right (SASR)			√		√
Satellite, B-pilar, left (SBSL)	√		√		√
Satellite, B-pilar,right (SBSR)	√		√		√
Satellite,door,front left (STVL)			√		√
Satellite,door,front right (STVR)			√		√
Language processing system (SVS)			√		
Safety and information Module(SIM)			√		√
Safety and Gateway Module (SI (SGM-SIM)	√		√		√

System			Short test	
	ECU	E60	E65	Read DTC
Safety and Gateway Module (Z (SGM-ZGM)	√			√
Satellite,seat,driver (SSFA)		√	√	√
Satellite,seat,passenger (SSBF)		√	√	√
Satellite,seat,rear (SSH)		√	√	√
Telematic Control Unit (TCU)	√	√		
Telephone (TEL)		√		
Universal charging and hands-free faci (ULF)	√			√
Video Module (VM)	√	√		
Central Gateway Module (ZGM)		√	√	√
Flexible Bus Interface(FBI)		√		
<b>Seats and doors</b>				
Seat module,driver(SMFA)	√	√		√
Seat module,passenger(SMBF)	√	√		√
Seat module,driver's side rear(SMFAH)		√		√
Seat module,passenger's side rear(SMBFH)		√		√
Door module,driver(TMFA)	√		√	√
Door module,front passenger(TMBF)	√		√	√
Door module,passenger door(TMBFT)		√	√	√
Door module,passenger's side rear(TMBFH)		√	√	√
Door module,driver's door(TMFAH)		√	√	√
Door module,driver's side rear(TMFAH)		√	√	√
<b>Air condition</b>				
Integrated automatic heating/air conditioning(IHKA)	√	√	√	√
Independent/auxiliary heater(SHZH)	√	√		
Rear heater/air conditioning(FKA)		√		√

### BMW E60/E65 SRS Short test Function List

System	ECU	Short test				
		E60	E63/E64	E65/E66	Read DTC	Erase DTC
SASL		X	X	√	√	√
SASR			X	√	√	√
SBSL		√	√	√	√	√
SBSR		√	√	√	√	√
SFZ		√	√	√	√	√
SGM-SIM		√	√	√	√	√
SSBF		X	X	√	√	√
SSFA		X	X	√	√	√
SSH		X	X	√	√	√
STVL		X	X	√	√	√
STVR		X	X	√	√	√
SZL		√	√	√	√	√





**VOLVO**

System	Model								Function				
	1996-2002								Read DTC	Erase DTC	Live data	Active	Special function
ECU	800 series	900 series	S40/V40	S70/V70	S90/V90	C70 V40	S40(~04)						
<b>Powertrain</b>													
EMS2000							v	v	v	v	v		
Motronic 4.4	v	v		v	v	v			v	v	v	v	Reset Adaption
LH 2.4		v							v	v			
EZ 116K		v							v	v			
LH 3.2	v								v	v			
EZ 129K	v								v	v			
DSA			v						v	v	v	v	Reset Adaption
Cruise Control	v	v		v	v	v			v	v			
Diesel msa 15.7	v			v					v	v	v	v	
<b>Electrical</b>													
Combi	v		v	v		v			v	v	v	v	Clear SRL

System	Model								Function				
	1996 Before								Read DTC	Erase DTC			
ECU	200 series	400 series	700 series	800 series	900 series								
<b>Powertrain</b>													
LH 2.4	v			v				v		v		v	
LH 3.1	v									v		v	
FENIX 3B -92		v								v		v	
FENIX 3B 93-		v								v		v	
EZ 116K	v			v				v		v		v	
Regina				v				v		v		v	
REX-I				v				v		v		v	
Turbo Control				v				v		v		v	
Cruise Control		v		v		v		v		v		v	
<b>Electrical</b>													
Combi						v				v		v	
CEM III		v								v		v	
<b>Transmission</b>													
AW 30-40/30-43								v		v		v	
AW 50-42					v					v		v	
<b>Brakes</b>													
ABS		v		v		v		v		v		v	
<b>Body</b>													
Power Seat								v		v		v	
Air Bag		v								v		v	
Air Bag 2.2/2.3					v			v		v		v	
Keyless Entry		v								v		v	
Climate Control					v					v		v	

**For perfect performance of WIN-STAR or MAGUS PC-based Automotive Diagnosis, please confirm PC/Laptop you or your clients select must follow the requirement below.**

**PC/Laptop Requirements:**

- 1. 1~2.8G Hz**  
To exceed this limitation is not allowed.
- 2. RAM: 512MB**
- 3. HD: 1G (free capacity at least)**
- 4. Computer: it is better to use the computer with RS232 port. In case without it, please use a USB-RS232 converter. (USB Converter can be purchased from I.C.M. company now)**
- 5. Operation System: WINDOW 2000 or WINDOW XP only**