

MINI **V12.10** Diagnostics List (Note:For reference only)

Menu				Functions							
Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
		Driver	DME Digital Motor Electronics	√	√	√	√	√	√	1.Clear Adaptations 2.DME/DDE-EWS adjustment 3.CO adjustment 4.Smooth running measurement 5.Tank Leakage System Check 6.Secondary Air System Check 7.Status Diagnosis Functions 8.OBD Readiness Display 9.Idle speed adjustment 10.Program All Adjustments 11.Operation On Roller Dynamometer or 1.Idle speed 2.Exhaust-gas recirculation 3.Start basic injection quantity 4.Limitation delivery 5.Injection rate 6.Consumption calculation 7.Injector rate adjustment	

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		Body	LSZ/LCM (Light switching center)	√	√	√	√	√				
			PDC Park Distance Control	√	√	√	√	√				
			RAD (Radio)	√	√	√	√	√				
			SHD (Sliding/tilting)	√	√	√	√					
			SRS (Air bag)	√	√	√	√	√				
			URS (Rollover sensor)	√	√	√	√	√				
			ZKE (Central body electronic)	√	√	√	√	√				
			STVL(Satellite,door,front left)	√	√	√	√					
			STVR(Satellite,door,front right)	√	√	√	√					
		Smart test		√	√	√						
			BC1.C05							1.Recoding		
			BC1.C06								1.Recoding	
			BC1.C07								1.Recoding	
			CVM_IV.C02								1.Recoding	
			CVM_IV.C03								1.Recoding	
			CVM_IV.C04								1.Recoding	
			CVM_IV.C05								1.Recoding	
			CVM_IV.C06								1.Recoding	
			EWS.C81								1.Recoding	
			LWS5.C01								1.Recoding	
			MK60.C08								1.Recoding	
			MK60.C11								1.Recoding	

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MINI-R50/R52/R53			PDC.C03							1.Recoding			
			RA_NG.C01							1.Recoding			
			RLS.C02								1.Recoding		
			SHD.C03								1.Recoding		
			SHD.C04								1.Recoding		
			KMB_R50.C08								1.Recoding		
			KMB_R50.C10								1.Recoding		
			MRS4_12.C52								1.Recoding		
			Car Key Memory\KOM [Instrument cluster]\Distance									1.KM 2.MLS 3.---	
			Car Key Memory\KOM [Instrument cluster]\Fuel consumption									1.L/100 KM 2.MPG(UK) 3.MPG(US) 4.KM/LITRE	
			Car Key Memory\KOM [Instrument cluster]\Temperature									1.°C 2.°F	
			Car Key Memory\KOM [Instrument cluster]\Outside temperature warning									1.Not active 2.Active	
Car Key Memory\KOM [Instrument cluster]\Ignition key									1.Not active 2.Active				

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
			Car Key Memory\KOM [Instrument cluster]\Time							1.24H 2.12H	
			Car Key Memory\KOM [Instrument cluster]\Fuel consumption							1.L/100 KM 2.MPG(UK) 3.MPG(US) 4.KM/LITRE	
			Car Key Memory\PDC [Park Distance Control]\Switch on message(rear)							1.Not active 2.Active	
			Car Key Memory\PDC [Park Distance Control]\Rear volume							1.stage 1 2.Stage 2 3.Stage 3 4.Stage 4 5.Stage 5 6.Stage 6	
			Car Key Memory\SHD [Sliding\tilting sunroof]\Open sunroof one touch function							1.Not active 2.Active	
		Coding / Program	Car Key Memory\SHD [Sliding\tilting sunroof]\Close sunroof one touch function							1.Not active 2.Active	

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
			Car Key Memory\SHD [Sliding\tilting sunroof]\Raise sunroof one touch function							1.Not active 2.Active	
			Car Key Memory\ZKE [Central Body Electronic]\Central locking\Automatic locking after 2 minutes if not opened							1.Not active 2.Active	
			Car Key Memory\ZKE [Central Body Electronic]\Central locking\Automatic locking after starting off							1.Not active 2.Active	
			Car Key Memory\ZKE [Central Body Electronic]\Central locking\Automatic unlocking after engine off							1.Not active 2.Active	
			Car Key Memory\ZKE [Central Body Electronic]\Central locking>Selective central locking							1.Not active 2.Active	
			Car Key Memory\ZKE [Central Body Electronic]\Central locking>Selective central locking rc							1.Not active 2.Active	

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
			Car Key Memory\ZKE [Central Body Electronic]\Central locking\Entrance aid>Selective central locking rc							1.Selective 2.Entrance aid 3.Not active	
			Car Key Memory\ZKE [Central Body Electronic]\Central locking\Holding rc open button							1.No function 2.Comfort opening 3.Luggage comp opening	
			Car Key Memory\ZKE [Central Body Electronic]\Central locking\Holding rc open button							1.Not active 2.Active	
			Car Key Memory\ZKE [Central Body Electronic]\Windscreen Wipers\Switch back when stationary							1.Not active 2.Active	
			Car Key Memory\ZKE [Central Body Electronic]\Exterior Lights\Home lights							1.Not active 2.40 seconds	
			Car Key Memory\ZKE [Central Body Electronic]\Exterior Lights\Home lights							1.Not active 2.40 seconds 3.90 Seconds 4.150 Seconds 5.240 Seconds	

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
MINI			Car Key Memory\ZKE [Central Body Electronic]\Exterior Lights\Day time running lights(ECE)							1.Not active 2.Active	
			Car Key Memory\ZKE [Central Body Electronic]\Exterior Lights\Day time running lights(US)							1.Not active 2.Active	
			Service functions							1. Key Test 2. Display status of all keys 3. Disable/Enable key	
			CAS Car Access System	√	√	√	√	√		1.Personalisation key number 2.Disable_enable key 3.Reset internal ELV fault counter 4.CAS reset 5.Reset starter interlock	

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
		Driver	DME Digital Motor Electronics	√	√	√	√	√	√	1.DME-CAS adjustment 2.CO adjustment 3.Clear adaptations 4.Delete adaptations/variants 5.Idle speed adjustment 6.Consumption indicator adjustment 7.Learning Valvetronic limit positions 8.Venting, cooling system 9.Register battery change 10.Remove Valvetronic servomotor 11.OBD readiness codes 12.Operational smoothness measurement	

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
			EGS Transmission control	√	√	√	√	√	√	1.Reset adaptation values 2.Reset learning functions 3.Mechatronics adjustment 4.Oil-level adjustment 5.Oil lifetime 6.Teach in transmission 7.Teach in clutch slip 8.Reset clutch characteristic 9.Teach in valve characteristic curve 10.Parking lock, hook test 11.Parking lock, function test 12.Flushing function 13.Reset torque characteristic curve	

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
		Chassis	ABS/ACS/DSC Dynamic Stability Control	√	√	√	√	√	√	1.Bleeding DSC Hydraulics 2.Mix Up Check BrakeLines 3.Run flat indicator initialisation 4.Longitudinal acceleration sensor matching 5.DSC sensors check	
			EPS(Electronic Power Steering)	√	√	√	√		√	1.End position teach-in	
			RDC Tyre pressure control	√	√	√	√	√			
			AHM Trailer module	√	√	√	√	√			
			AMP Hi-Fi amplifier	√	√	√	√	√			
			CA Comfort Access	√	√	√	√	√			
			CCC-A Applications	√	√	√	√	√			
			CCC-ANT Aerial tuner	√	√	√	√	√			
			CCC-ASK Audio system controller	√	√	√	√	√			
			CCC-BO User interface	√	√	√	√	√			
			CCC-GW Gateway	√	√	√	√	√		1.Set tuner to New Zealand Coding 2.Heat unit malfunction	
			CDC CD Changer	√	√	√	√	√			
			CID Central Information Display	√	√	√	√	√			
		CVM Convertible-top module	√	√	√	√	√				

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
		Body	DAB Digital tuner	√	√	√	√	√			
			FBZM(Rear Compartment,control center,center console)	√	√	√	√	√			
			FRM Footwell Module	√	√	√	√	√			Start windows initialising Rear windows, initialising Rear windows, test
			IBOC Digital tuner US	√	√	√	√	√			
			IHKA Integrated automatic heating/air conditioning	√	√	√	√	√			1.Coolant compressor 2.Rear-window roller blind
			IHKS Intergrated heating/air-conditioning control	√	√	√	√	√			
			IHS Integrated heating control	√	√	√	√	√			
			INSTR Instrument cluster	√	√	√	√	√	√		1.Instrument cluster system test
			JBE Junction-box electronics	√	√	√	√	√			Rear windows, initialising
			JNAV Navigation system, Japan	√	√	√	√	√			
			MJOY MINI joystick	√	√	√	√	√			
			MRS Multiple Restraint system	√	√	√	√	√			Enable seat-occupancy mat, front passenger
			PDC Park Distance Control	√	√	√	√	√			
			RAD Radio	√	√	√	√	√			
		RAD2-BO User interface	√	√	√	√	√				

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
			RAD2-GW Gateway	√	√	√	√	√			
			SDARS satellite tuner	√	√	√	√	√			
			SHD Sliding/tilting sunroof	√	√	√	√	√		1.Delivery position 2.Initialize slide_tilt sunroof	
			SZL Switch center, steering column	√	√	√	√	√			
			ULF-SBX Interface box	√	√	√	√	√			
			ULF-SBX-H Interface box High	√	√	√	√	√	√		
			VM Video Module	√	√	√	√	√			
		Short test		√	√	√					
			RAD2.C03							1.Recoding	
			RAD2.C04							1.Recoding	
			RAD2.C50							1.Recoding	
			RAD2.C51							1.Recoding	
			RAD22.C30							1.Recoding	
			RAD22.C31							1.Recoding	
			RAD22.C32							1.Recoding	
			MEX172.C00							1.Recoding	
			MEX172.C0A							1.Recoding	
			MEX172.C0B							1.Recoding	
			MEX172.C0C							1.Recoding	
			MEX172.C0D							1.Recoding	
			MEX172.C0E							1.Recoding	

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			MEX172.COF							1.Recoding	
			MEX172.C10							1.Recoding	
			MEX172.C11							1.Recoding	
			Car Key Memory\CAS [Car access system]\Drive away locking							1.Not active 2.Active	
			Car Key Memory\CAS [Car access system]\Convenience opening / closing							1.Not active 2.Active	
			Car Key Memory\CAS [Car access system]\Selective central locking							1.Not active 2.Active	
			Car Key Memory\FRM [Footwell module]\Home lights duration							1.Not active 2.40s 3.90s 4.150s 5.240s	
			Car Key Memory\FRM [Footwell module]\Daytime driving lights ECE							1.Not active 2.Active	
			Car Key Memory\FRM [Footwell module]\Visual unlocking,without anti-theft alarm system							1.Not active 2.Active	
		Coding / Program	Car Key Memory\JBE [Junction box electronics]\Visual deactivation							1.Not active 2.Active	

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
		Program	Car Key Memory\JBE [Junction box electronics]\Visual acknowledgement during activation							1.Not active 2.Active	
			Car Key Memory\JBE [Junction box electronics]\Arm acoustically doors/lids closed							1.Not active 2.Active	
			Car Key Memory\SHD [Sliding / Tilting Sunroof]\One-touch function,raise slide/tilt sunroof							1.Not active 2.Active	
			Maintenance \ CBS Reset							1.Engine Oil 2.Microfilter 3.Front barke 4.Rear brake 5.Vehicle check 6.Spark plugs 7.Brake fluid 8.Vehicle inspection 9.Exhaust emission inspection 10.Diesel particle filter	

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
			Maintenance \ CBS Correct							1.Engine Oil 2.Microfilter 3.Front barke 4.Rear brake 5.Vehicle check 6.Spark plugs 7.Brake fluid 8.Diesel particle filter 9.Vehicle inspection 10.Exhaust emission inspection	
			Maintenance							1.Delete transport mode	
			Service functions							1.Adjustment, Steering-angle sensor	
(*):Tested; (?):Manual on website(www.x431.com) Note:All description rights reserved by LAUNCH TECH.CO.,LTD											
CONNE CTOR	X431			DIAGUN							

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Series	Chassis	Module	ECU System	Sys. Info.	Read code	Clear code	Data Stream	Actuation	Read Freeze Frame	Special Functions	Others
BMW-20	The year before 2002, you can easy to find the 20-pin round socket in engine compartment. And some BMW with two			N/A							
BMW-16	The year after 2002, and before 2007, there are only one OBDII socket in cab without CAN bus diagnosis.			N/A							
CAN BUS II	The year after 2007, there are only one OBDII socket in cab with CAN bus diagnosis.			N/A							
diagun connector	N/A										
SUPER 16	ALL OBDII socket.			N/A							