

Carsoft International www.carsoftsales.com bmwhome@carsoftsales.com Tel: +32/19.54.54.29

Intro:

Since 1988, *Carsoft* has developed independent alternatives to official factory BMW- and Mercedes diagnostic systems. *Carsoft* BMW and MINI Diagnostic-& Repair systems are designed for BMW and Mini vehicles equipped with onboard diagnostics.

Important Features:

Unlike many aftermarket systems, *Carsoft* BMW-MINI V12 uses official BMW/MINI terminology and official BMW/MINI codes and descriptions, so you can reference BMW's parts and service literature without translating generic codes. *Carsoft* saves time, is easy to use, easy to update, and provides the best return on investment. You can use *Carsoft* on most laptop & desktop computers, as long as they are Windows 98 / ME / 2000 / XP / Vista or 7 compatible.

CARSOFT FEATURES:

Comprehensive Diagnostic Abilities using correct OEM BMW code descriptions & information for all vehicles 1988-10/2007

Cars	oft Ultimate Ho	ome	Ca	rsoft Ultimate Home
			Status Report :	Carsoft Mercedes Ultimate Pro
Version : Ultimate Pro			Error	Status: ERROR → Read the error memory I
	1 Series 3 Series	5 Series		ECU Information:
	Click " <u>5 Series</u> " button to cont	inue	ECU Info :	Part Number :001536779 Software Date :14/01 Hordware Date :14/01 Diagnosis Recognition :5/5
			Part Number	Supplier :Bosch
			000 153 67 79 Software Version	Stored Error
			14/01	Fault Code : P0100
	6 Series 7 Series	8 Series	Hardware Version	P0100 Hot film mass air flow sensor B101.
			14/00	→ The error will be stored within a tew seconds. → The Check Engine (MIL) light does not light.
			Diagnosis Recognition	The control unit will work with a replace value, and the EGR is switched off.
			Supplier	
the Martin and Martin		-	Bosch	- 002 Signal voltage too high - 004 Supply voltage too high or too low, or CAN-Bus signal faulty - 004 Supply voltage too high or too low, or CAN-Bus signal faulty
			Click the "Back" button to go back.	If there is a fault stored in the error memory.
Back			Back Home Print Sa	Image: state in the error memory: Image: state in the error memory:
10/14/2008 3:59 PM Passenger Vehicles		Click the " <u>Exit</u> " button to exit the demo	6/10/2007 8:40 AM Personal Vehicles\ E Clas	s\System Diagnostic Tests\Driveline\CDI Engine\Error Codes\ Click the " <u>Exit</u> " button to exit the demo

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Automated Total	Diagnosis of all systems.		Relevant Data Streams	;
Carso	Click the <u>"DDE Single Diagnosis</u> " button to enter the <u>DDE module</u>		Carsoft UI	timate Home
CARSOFT	DDE Single Diagnosis Status: Read the error memory !	0 • 0		
BMW Version : Ultimate Pro	KI Single Diagnosis Status: OK	• • •		2013
N. S. S. T	AB Single Diagnosis Status: OK	• • •	Engine Speed (RPM) 749 1/min
	ABS/ASC Single Diagnosis Status: OK	• • •	Coolant Temperature	
	ZKE/ZVM Single Diagnosis Status: OK	• • •	Actual Injection quanti Rail Pressure	
	AC Single Diagnosis Status: Read the error memory !	0 • 0	Boost Pressure	1394 bar 500 hPa
	EGS Single Diagnosis Status: Read the error memory !	0 • 0	Air Mass Volume	50 mg/Hub
	EWS Single Diagnosis Status: OK	• • •	Westing	
Click the "Back" button to go back to "Syste	Diagnosis Status: OK		Working	Freeze End 2
Back Main				Click "End" button to go bac
10/14/2008 4:01 PM Passenger Vehicles\ 5 Series\ &Quick	Click the	"Exit" button to exit the demo	8/14/2008 3:11 PM Passenger Vehicles\ Single Diagnosis\ Driveline\ CDI Live Dat	a 4 Cil.

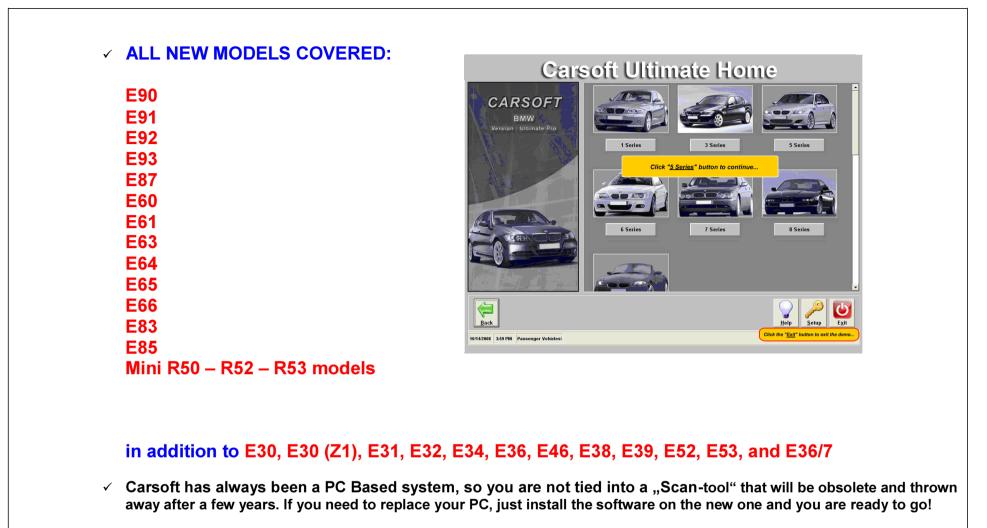
► Component Test and Calibration

► Module Coding

o back..

		CDI-CAN			
	Engine Speed (RPM)	751 1/min		Airbag - Coding	I
	Cylinder 1	-0.0 mm^3/Hub		Procedures:	
	Cylinder 2	0.0 mm^3/Hub		🐷 Reading coding data 🐷 Replace the Control Unit	
	Cylinder 3	0.2 mm^3/Hub			
	Cylinder 4	-0.2 mm^3/Hub			
		0.0 mm*3/Hub			
	Cylinder 5				
	Cylinder 6	0.0 mm*3/Hub			
	Actual Injection quantity	10 mm^3/Hub			
	Coolant Temperature	83 C		Coding Data Status :	
	Rail Pressure	323 bar		Reading Coding Data Write Coding Data	Close
	Working				
	Start Freeze	End Click End	to stop		
				(
			H		
			Back		E≚it
4/2008 3:16 PM Passeng	ger Vehicles\E Class\Single Diagnosis\Driveline\CDI\W211 Test Function	s\ Smooth Running Test\	27912942	11:07 Passenger Vehicles\ 3 Series\ System Diagnostic Tests\ Body\ Airbag\ ECU Coding\	

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Why Carsoft is the Better Solution:

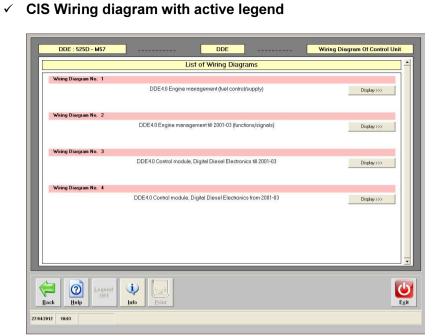
Carsoft is a fully integrated PC based solution... Carsoft knows that TIME IS MONEY! Carsoft is Fast and Accurate: Carsoft offers a fast "Total Diagnosis" quick test that tests all systems in a few minutes without entering a VIN number! Carsoft uses intelligent technology to find the status of all the applicable modules in a vehicle in one easy automated test.

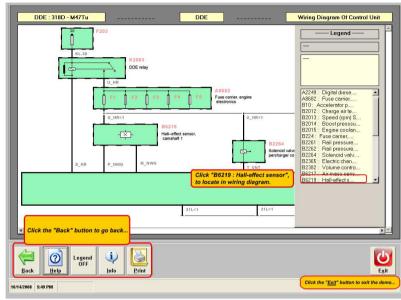


✓ CIS Error code explanation.

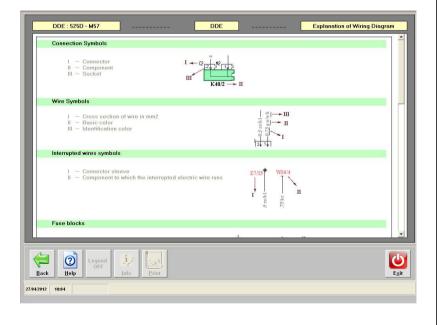
✓ CIS Component explanation with location

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Abbreviati	ons for <u>W</u> D	Abbreviations for <u>S</u> /C	
ACC	Active Cruise	Control	^
AFS	Active Steerin	q	
AGS	Adaptive Tran	smission Control	
AHM	Trailer Module	e	
AMP	Amplifiers		
ARS	Dynamic Drive	e	
BSD	Bit-Serial Data	a interface	
CA	Comfort Acces	ss	
CAN	Controller Area	a Network	
CAS	Car Access Sy	/stem	
CCC	Car Communic	cation Computer	
CDC	CD Changer		
CID	Central Informa	ation Display	
CON	Controller		
CAM	Convertible Tr	on Modulo	
Abbre	viations for Wir	ing Diagrams	Close



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1.0 Powertrain Systems:

Carsoft BMW – MINI V12 covers all engine management systems, both gasoline and diesel, from 1988 to 10/2007.

Basic Features:

- > Comprehensive Diagnosis using correct OEM BMW fault code descriptions & information all models
- Module version, including BMW and Supplier part numbers, Software version, Hardware Version, Dates of production, etc.
- Relevant Data Streams on:
 - Gasoline Engines (DME, MS, BMS)1996+
 - Diesel Engines (DDE) 1996+
 - Automatic Transmissions 1996+
- Reset Adaptation to Basic Settings:
 - Mixture Adaptation Reset on Gasoline Engines
 - Sensory Adaptation Reset on Diesel Engines
 - Shift Adaptation Reset on Automatic Transmissions
- ALL NEW MODELS COVERED: E90, E91, E92, E93, E87, E60, E61, E63, E64, E65, E66, E83, E85, Mini R50 R52 – R53 models, in addition to E30 / Z1, E31, E32, E34, E36 / Z3, E46, E38, E39, E52, E53, and E36/7

Basic Vehicle Coverage:

Powertrain Module All Versions	Module Version Info	DTC Read + Erase	Live Data	Adap. Reset From 01/95	Coding	EWS Align * From 01/95	E30/Z1	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E52 (Z8)	E60/61	E63/64	E65	E66	E90/E92	E91/E91	E87 E02	E03 E85 (Z4)	ŝ	
DME/MS/BMS/MSS/EMS	Ø	\square	☑	☑	Ø	Ø	☑	☑	⊠	Ø	☑	Ø	Ø	Ø	☑	☑	Ø	Ø	Ø	Ø	Ø	☑	☑	☑		<u>a</u> <u>a</u>	1
DDE	M			M	V	V		☑	☑	V		V	V	☑	\checkmark	V	V	V	\mathbf{A}	\mathbf{A}	\mathbf{A}	\checkmark	\square	\checkmark	1	ৰ ব	1
Automatic Transmission	M	Ø	Ø	M				⊠	⊠	V	V	N	V	M	V	Ø	A	N	N	A	N	\square	M	V	1	ৰ ব	1

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1.1 Gasoline Engines: Engine

Gasoline Engine Module	Module Version Info	DTC Read + Erase	Live Data	Adaptation Reset From 01/95	Coding	EWS Align* From 01/95	E30/21	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	(E52 (Z8	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	(E85 (Z4	ININ
DME 1.1							M			Ø																	
DME 1.2								Ø		Ø																	
DME 1.3										☑																	
DME 1.7							Ø	Ø		Ø	Ø																
DME 1.7.1								M																			
DME 1.7.2										V																	
DME 1.7.3										V	M																
DME 3.1										Ø																	
DME 3.3									_				Ø														
DME 3.3.1							<u> </u>		<u> </u>	☑																	
DME 5.2								 	Ø		Ø															<u> </u>	\mid
DME 5.2.1								<u> </u>				<u> </u>										<u> </u>				<u> </u>	\vdash
MS 40.0/40.1		☑								Ø																	
MS 41														☑													
MS 41.0/1/2										Ø	Ø		☑	☑													
MS 42																											
MS 43														Ø	Ø	Ø									Ø	Ø	
BMS 43										V	M																
MS 45			V												Ø				N	Ø	Ø	M		M			
MS 45.1																		M	N	Ø	Ø	Ø	M	V			
BMS 46											M				Ø												
MS S50											M																
MS S52														M			V										
MS S54															Ø												
ME 7.2				Ø											Ø	Ø									Ø	Ø	\square
ME 9.2 (ME9)	Ø	Ø													Ø			Ø	Ø	Ø	Ø	Ø	Ø	Ø		Ø	
ME 9.2.1			☑	Ø		Ø															Ø						\square
EMS2																											Ø

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Gasoline Engine Additional Features:

- RESET MIXTURE (FUEL TRIM) ADAPTATION TO BASIC SETTINGS: Model Year 1996-10/2007
- EWS Alignment Model Year 1996-10/2007
- Live Data Streams 1996-10/2007
- At minimum, Carsoft reports the OEM BMW fault with full fault code descriptions. Carsoft also provides additional information on many fault codes including troubleshooting hints and information.
- ECU Coding

1.2 Diesel Engines: Full Features and Coverage for both Pre-Chamber and Common Rail Systems

Diesel Engine Management Version	Module Version Info	DTC Read + Erase	Live Data	Coding	Adaptation Reset	EWS Align	E30	E34	E36	E38	E39	E46	E53	E60/61	E65	E90/E91	E92/E93	E87	E83	MIN
DDE 1.xx	V	Ø					M													
DDE 1.1.2	V	Ø					M													
DDE 1.2.1	M	V					Q													
DDE 2.0	M	V						☑												
DDE 2.1	M	V						☑		☑										
DDE 2.2	M	M	Ø	M	M	M				☑	V									
DDE 3.0	M	M	M	M	V	M					V									
DDE 4.0	M	M	M	M	M	M					V	☑	N							M
DDE 4.1 Master	M	Ø	M	M	V	M					V		N							
DDE 4.1 Slave	M	M	M	M	V	M					V		N							
DDE 5.0	M	M	M	M	V	M						☑	N						M	
DDE 6.0	Ŋ	Ø	V		Ŋ									M	Ø	Ĭ	Ŋ	Ŋ		

Diesel Engine Additional Features:

- RESET SENSOR ADAPTATION TO BASIC SETTINGS: Model Year 1996-10/2007
- EWS Alignment Model Year 1996-10/2007
- Live Data Streams 1996-10/2007
- At minimum, Carsoft reports the OEM BMW fault with full fault code descriptions. Carsoft also provides additional information on many fault codes including troubleshooting hints and information.
- ECU Coding

1.3 Automatic Transmissions: All Electronic Gearbox Control Systems

Automatic Transmission Version	Module Version Info	DTC Read + Erase	Live Data From 96	Adaptation Reset From 96	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	E85 (Z4)	MINI
GS 1.2	Ø	M			Ø	N	V																
GS 1.2x	Ø	\mathbf{N}			Ø	M	V	V															
GS 2.2x	N	N			Ø	M		M															
GS 4.xx	Ø	N			Ø	N	V	\square															
GS 7.xx		V			V	V	V	N	V														
GS 7.32	Ŋ			M	V	N	Ø			Ø													
GS 8.xx	Ø	$\mathbf{\overline{N}}$	V	M	\square	V	V		V	Ŋ	N	M											
GS 8.51	Ŋ	\mathbf{N}	V	M		V	\square			Ø	N	M											
GS 8.52	Ø	V	V	M						N	M												
GS 8.55	Ø	V	V	M		V			V	M	$\mathbf{\nabla}$	V											
GS 8.60.0	Ø	\checkmark	Ø	${\bf \boxtimes}$		\checkmark		\square	V	\square	\square	Ø	\square										
GS 8.60.1		\mathbf{N}	Ø	M				Ø		Ø													
GS 8.60.2/3	☑	\checkmark	Ø	M		☑		\square	V	☑	\square	\square	\square										1
GS 8.60.4	Ø	V	V	Ø			V	V		Ø	V	M											
GS 8.70	Ø	M	Ø	Ø			V		N	☑	\square												
GS 9.xx	Ø	V	M	M		V	V			Ø	V												
GS 9.20	Ø	V	V	Ø		M	Ø			Ø	V												
GS 9.22	Ø	V	V	Ø		V	Ø			Ø	Ø												
GS JATCO	Ø	V					V	V															
GS 19	Ø	N	V	Ø									Ø	Ø	N	V	V	Ø	Ø	Ø	V	Ø	
GS 20	Ø	V	V	Ø					N	Ø	Ø	Ø										Ø	Ø

Automatic Transmission Additional Features:

- RESET SHIFTING ADAPTATION TO BASIC SETTINGS: Model Year 1996-10/2007
- Live Data Streams 1996-10/2007

2.0 Chassis Systems:

Carsoft BMW – MINI V12 covers all Brake and Traction Control systems, from 1991 to 10/2007.

Basic Features:

- > Comprehensive Diagnosis using correct OEM BMW fault code descriptions & information all models
- Module version, including BMW and Supplier part numbers, Software version, Hardware Version, Dates of production, etc.
- ALL NEW MODELS COVERED: E90, E91, E92, E93, E87, E60, E61, E63, E64, E65, E66, E83, E85, Mini R50 R52 – R53 models, in addition to E30 / Z1, E31, E32, E34, E36 / Z3, E46, E38, E39, E52, E53, and E36/7

Basic Vehicle Coverage:

Chassis System Module All Versions	Module Version Info	DTC Read + Erase	E30/Z1	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E52 (Z8)	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	E85 (Z4)	MINI
ABS	\square	\square	☑	\square	\checkmark	\checkmark	\square	\square	$\mathbf{\nabla}$	\checkmark	\square	$\mathbf{\nabla}$	$\mathbf{\nabla}$	\mathbf{A}	$\mathbf{\nabla}$	$\mathbf{\nabla}$	\checkmark	\square	☑	\mathbf{A}	V	$\mathbf{\nabla}$	\checkmark
ASC	\square	\square		V		N	M	V		$\mathbf{\Sigma}$	\square	Þ	Þ	Σ	\checkmark	$\mathbf{\Sigma}$	$\mathbf{\Sigma}$	\square	Ø	Σ	N	M	M
DSC	\square	Ø			N				N	N	V	N	N	N	M	N	N	V	N	N	A	A	V

2.1 Brake and Traction Systems: New Features and Coverage

ABS Version	Module Version	DTC Read + Erase	E32	E31	E34	E36	E36/7- Z3	E38	E39	E46	E53	E60/61	E63/64	E65	E66	E52 Z8	E90/E91	E92/E93	E87	E83	E85 Z4	MIN
ABS 3Channel*																						
ABS 4 Channel*		N																				
ABS/ MK4-3*	Ø	N		☑	Ø	Ø																
ABS5	Ø	N		V	Ø	Ø																
ABS MK20/I	Ø	M			Ø	\square	Ø															
ABS MKIV-G	Ø	M			Ø	\square		Ø														
ABS MK60	Ø	V				\square	Ø	Ø	Ø	Ø												☑
ABS/ASC MK4-3	Ø	V		V	Ø	Ø		Ø	Ø	Ø												
ABS/ASC+T*	Ø	Ŋ	N		V	V		V	M													
ABS/ASC ITT-TEVES	Ø	M			V	V	M	V	V	\square												
ABS/ASC BOSCH	V	\mathbf{V}				M	Ø	\square	Ø	\square	\square											
ABS/ASC5	\square	\mathbf{N}		Ø		\square		Ø														
ABS/DSC2	☑	$\overline{\mathbf{A}}$		\square		\square	☑	\square	☑	\square	\square											
ABS/DSC3 BOSCH	Ø	Ŋ		V		Ø		Ø	Ø	Ø												
ABS/DSC3 TEMIC	Ø	M					Ø	V	Ø													
DSC ITT TEVES	Ø	M							Ø													
DSC3 MK20	M	M					☑	V	☑	V											V	
DSC3 MK60	Ø	N						Ø	Ø	V											M	
DSC 5.3	Ø	V							☑	\square												
DSC5.7 ¹	Ø	Ŋ						Ø	Ø		Ø			V	V	V						Ø
DSC8	Ø	M										Ø	Ø				V	Ø	Ø	V		

Coverage on all modules 1991 up to 10/2007 production.

Notes:

1. DSC5.7 only applicable to E46/18 All Wheel Drive

3.0 Airbag and Safety Systems:

Carsoft BMW – MINI V12 covers all Safety and Restraint Systems from 1988 to 10/2007.

Basic Features:

- > Comprehensive Diagnosis using correct OEM BMW fault code descriptions & information all models
- Module version, including BMW and Supplier part numbers, Software version, Hardware Version, Dates of production, etc.
- CAN-BUS/Byteflite Models covered
- ALL NEW MODELS COVERED: E90, E91, E92, E93, E87, E60, E61, E63, E64, E65, E66, E83, E85, Mini R50 R52 – R53 models, in addition to E30 / Z1, E31, E32, E34, E36 / Z3, E46, E38, E39, E52, E53, and E36/7

Basic Vehicle Coverage:

Airbag Module All Versions	Module Version Info	DTC Read + Erase	Coding	E30/Z1	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E52 (Z8)	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	E85 (Z4)	MINI
Airbag		M	V	☑	☑	☑	☑	☑	☑	V	V	☑	V	☑								Ø	Ø	☑
Safety Gateway Module	Ø	Ø	$\mathbf{\overline{A}}$												Ø	Ŋ	Ŋ	Ø	V	Ø	Ø			

*See complete specifications for actual modules covered

3.1 Airbag and Safety Systems:

Safety System Control Module	Module Version Info	DTC Read + Erase	Coding	E30/Z1*	E32*	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E52 (Z8)	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	E85 (Z4)	NIN
SRS1	N	Ø		Ø			Ø	Ø																
5WK4 060	V	M		V	\checkmark	☑	V	V																
BAE	M	M		N	Ø	Ø	N	N	A	A	J													
ZAE	V	V		Ø	Ø	Ø	\square	\square	Ø	V	V													
ZAE2	V	M		V		Ø	V	V	V	V	N													
MRS	Ø	M	M	V		Ø	V	V	V	N	N													
MRS2	Ø	Ø	Ø	\checkmark		\square	\checkmark	\checkmark	\checkmark	V	V													
MRS3	Ø	\square	Ø							\square	V	M	$\mathbf{\Lambda}$	\checkmark										
MRS4		Ø							V	M	M	V	\square										'	Ø
MRS4D	Ø	Ø	Ø															_				Ŋ		
SIM	Ø	Ø													M	\checkmark	M	V	Ø	Ø	M		M	
SASL	Ø	\square					_	_				_		_	_		V	V				_		
SASR	Ø																\square	\square						
SBSL	M	Ŋ													Σ	$\mathbf{\Sigma}$	V	V						
SBSR	M	Ŋ													Σ	$\mathbf{\Sigma}$	V	V						
SSFA	M	Ø															V	M						
SSFB	Ø	Ø															Ø	M						
STVL	V	V															Ø	M						
STVR	Ø	V															V	V						
SSH	Ø	M													V	\checkmark	V	V						
SFZ	Ø	M																V						
ASE	Ø	M													V	V		V						
SGM		V													Ø	M	Ø	V						

Airbag and Safety Additional Features:

*Diagnosis supported where Airbag module is connected to 20-Pin diagnostic connector

ECU Coding

4.0 Body Systems:

Carsoft BMW-MINI V12 covers the most body systems, from 1991 to 10/2007.

Basic Features:

- > Comprehensive Diagnosis using correct OEM BMW fault code descriptions & information all models
- Module version, including BMW and Supplier part numbers, Software version, Hardware Version, Dates of production, etc.
- Component Activation Tests
- ALL NEW MODELS COVERED: E90, E91, E92, E93, E87, E60, E61, E63, E64, E65, E66, E83, E85, Mini R50 R52 – R53 models, in addition to E30 / Z1, E31, E32, E34, E36 / Z3, E46, E38, E39, E52, E53, and E36/7

Basic Vehicle Coverage:

Body System Module All Versions	Module Version Info	DTC Read + Erase	Sync. With Engine	Activation Component Test	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E52 (Z8)	E60/61	E63/64	E65	E66	E90/E91	E91/E93	E87	E83	E85 (Z4)	MIN
General Module	V	V		N	Ø	M	Ø	V	Ø	V	Ø	Ø	Ø	M	Ø	Ø	Ø	N				Ø	V	☑
Instrument Cluster	V	M			Ø	M	☑	N	Ø	N	Ø	Ø	Ø	Ø	M	M	Ø	V	Ø	Ø	N	Ø	V	☑
Convertible Top	V	V							$\mathbf{\nabla}$			\square											V	\square
Climate Control/AC	V	M				M	☑	N	V	N	V	\square	V		N	N	V	V	\square	V	N	V	\square	☑
On-Board Computer	V	M			\square	V	V	\checkmark	\square	\checkmark	\square	\square												
Rain/Light Sensor	V	M													V	V	\square	V	\square	\square	\checkmark			
Light Check Module	V	M						V	V	V	V	V	Ø	V	V	V	V	V				V	V	☑
Park Distance Control	V	M							V	V	V	V	Ø	V	V	V	V	V	V	V	V	V	V	
Central Gateway	V	M													V	V	V	V	V	V	V			
Anti-Theft Alarm	V	M			V	V	Ø	V	V	V	V	V	Ø	V	V	V	V	V	V	V	V	V	V	
Immobilizer	V	M	Ø		V	V	V	\checkmark	V	\checkmark	V	\square	M	M								V	V	Ø
Power Module	V	M													V	V	\square	V						
Wiper Module	V	M															\square	V						
Footwell Module	V	V																	V	V				

4.1 Central Body Electronics: ZKE, General Module, Park Distance Control, and Car Access Systems:

Central Module/General Module Versions	Module Version Info	DTC Read + Erase	Version Coding	Activation Component Test	E30/Z1	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E52 (Z8)	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	E85 (Z4)	MINI
ZKE I	M		V	Ø		Ø		M																	
ZKE II	M	V	V	Ø			V																		
ZKE III	M	V	V	Ø							V	V		V											
ZKE IV	M	Ø		Ø					Ø	\checkmark															
ZKE V	M		M	Ø									N											\checkmark	☑
ZKE V(RD)	M	V	V	Ø																			V		
CAS	M	V	V													V	V	\square	V	V	V	V	V		
RLS	M	V									V	V	V	V	V	V	V	$\mathbf{\nabla}$	V	V	V	V	V	V	
PDC*	M	Ø							Ø	\checkmark	\square	V	Ø	V	Ø	V	V	$\mathbf{\nabla}$	V	V	V	V	Ø	V	M
i-Drive			M													M	M	M	M	V	M	V			

*Except dealer installed PDC (Bosch Parkpilot™ or similar system)

Additional Features for Central Body Electronics:

- Full component activation on ZKE systems:
 - o Power Windows
 - o Door Locks
 - Interior Lighting
 - Wipers
 - Power Locking
 - Etc.
- Under Voltage & Low Voltage Fault reset on Car Access System (CAS)
- Diagnostic coverage on all new series of vehicles: E46,E60/61, E65/66, E63/64, E90/E91/E92/E93, E87, E83, E85
- Version coding on ZKE:
 - Automatic Locking
 - Selective Locking
- i-Drive Programming instructions

4.2 <u>Driver Information and Display Systems: Instrument Cluster, Multi-Information Display.</u> <u>On-Board Computer, and Central Information Display.</u>

Central Module/General Module Versions	Module Version Info	DTC Read + Erase	Versio n Coding	E32	E31	E34	E36* ¹	E36/Z3	E38	E39	E46	E53	E52 (Z8)	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	E85 (Z4)	MINI
KOMBI	M	N	M	N	N	M	N	M	☑	$\mathbf{\nabla}$	N	\square	Ø	N	Ŋ	N	V	☑	V	V	V	N	$\mathbf{\nabla}$
KOMBI (BASE)	V	V	\mathbf{N}							\checkmark		V											
IKE	M	M	\checkmark						V	\checkmark	M	V	Ø								M		
BC	M	M	\checkmark							\checkmark		V											
BC (BASE)	M	M	M							\checkmark		Ø											
MID	Ø	Ø	V				N	V	V	\checkmark	V	V											
Radio	\square	M												\checkmark	V	V	$\mathbf{\nabla}$	\square	V				
Amplifier	V	M														V	$\mathbf{\nabla}$						
Navigation System	V	M														V	$\mathbf{\nabla}$						
CD Controller	V	M												\checkmark	V	V	$\mathbf{\nabla}$	Ø	V				
Center Display	Ø	M														V	N						
Controller Module	Ø	Ø												\mathbf{N}		V	\mathbf{N}						
	1	1	1	I	I	I	I	I	I		l	I	I				<u> </u>	1	1. Ex	cept fo	or E36/	5	1

Additional Features for Driver Information and Display:

- Version Coding IC, BC/MID, CID:
 - Language/World Version
 - Measurement Unit Display (English/Metric)
- Diagnostic coverage on all new series of vehicles: E46,E60/61, E65/66, E63/64, E90/E91/E92/E93, E87, E83, E85
- i-Drive Setup Instructions with pictures and screenshots :
 - Change of Date & Time : settings
 - Change of Brightness settings
 - Change of Languages settings
 - Coding of Units settings
 - Coding of Steering wheel buttons settings
 - Change of RPA settings
 - Coding of PDC settings
 - Coding of Light settings
 - Coding of Power Lock settings

4.3 <u>Convertible Top Systems</u>

Module	Module Version Info	DTC Read + Erase	E36/Z3	E46	E52 (Z8)	E64	E85 (Z4)	INIM
CVM 1	Ø	Ŋ	Ø					
CVM 2	M	\mathbf{N}		N				V
CVM 3	Ø	Ŋ			M			
CVM 4	Ø	Ŋ					N	
CVM 5	V	M				Ø		

4.4 Heating, Air Conditioning, and Climate Control:

Climate Control System	Module Version Info	DTC Read + Erase	Versio n Coding	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E52 (Z8)	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	E85 (Z4)	MIN
IHKR	Ŋ	N				Ŋ	$\mathbf{\overline{A}}$			Ø	M	N									N		V
IHKA	Ø	M	V	V	V	V	\checkmark		V	V	\mathbf{V}	V		V	\checkmark	N	N	\checkmark	M	M	M	$\mathbf{\nabla}$	
IHKS	Ø	M						V					N										

Additional Features for Climate Control Systems:

- IHKA Version Coding of Temperature display °C / °F: E38, E39, E46, E53, & E83
- i-Drive Version Coding instructions for display °C / °F : E60/E61, E63/E64 and E65/E66

4.5 Alarm Systems, Immobilizer, Exterior Light & Check Control Modules, and Car Access Systems

Immobiliz er or Anti-Theft Alarm System	Module Version Info	DTC Read + Erase	EWS Align* With DME or /DDE	Actual Values Test	E30/Z1	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	Z8	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	E85 (Z4)	MIN
DWA	\square	\square			☑	\square	☑	Ø	\square	$\mathbf{\nabla}$	\square	\checkmark	$\mathbf{\nabla}$	\square	$\mathbf{\nabla}$	$\mathbf{\nabla}$	$\mathbf{\nabla}$	\square	\square				\square	\checkmark	☑
EWS 1	V	\checkmark				Ø		V	Ø																
EWS 2	Ø	Ŋ	V					N	V	V	V	V													
EWS 3 3.2	M	\checkmark	V				V	M			\checkmark	V	V	V	V									V	☑
EWS 3 3.3	Ø	N	V								$\mathbf{\nabla}$	\checkmark	V	$\mathbf{\nabla}$	V								$\mathbf{\nabla}$	$\mathbf{\nabla}$	☑
EWS 3D	Ø	\checkmark	V							$\mathbf{\nabla}$															
CAS	Ø	\checkmark	N/A													A	$\mathbf{\nabla}$	\checkmark	V	V	V	N			
LCM/CCM	Ø	Ŋ		Ø							V														
LCM	Ø	V		V							Ø	V													
LCM III	Ø	V		V							Ø	V		Ø											
LSZ		V											V										Ø	N	☑

*EWS alignment supported on post 1996 vehicles. EWS programming and key programming not supported.

Additional Features for Alarm, Immobilizer, and Car Access Systems:

- CAS Car Access System Under Voltage Reset
- EWS alignment with DME/DDE (From 1996)
- LCM/CCM Read Coding info: Vehicle Identification Number and total stored mileage (LCM mileage always shown in Km)

5.0 Service Interval Reset and Management Systems

Carsoft BMW – MINI V12 covers Service Interval systems, from 1988 to 10/2007.

Basic Features:

- Reset Service Light for all types of service
- Programming of Next Service where applicable
- ALL NEW MODELS COVERED: E90, E91, E92, E93, E87, E60, E61, E63, E64, E65, E66, E83, E85, Mini R50 R52 – R53 models, in addition to E30 / Z1, E31, E32, E34, E36 / Z3, E46, E38, E39, E52, E53, and E36/7

Basic Vehicle Coverage:

System Module All Versions	Reset Light or Message	Programming*	E30/Z1	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E52 (Z8)	60/	E63/64	E65	E90/E91	E92/E93	E87 FCC	D OO	E85 (Z4)	MIN
Service Interval System	${\bf \overline{\Delta}}$	Ø	\checkmark	M	Ø	\square	V	\square	\square	\square	M	V	M	☑	☑	V	☑	☑	Ø		1	\square

* Programming supported on SIA III and newer

5.1 Service Interval Management

Service Interval Module	Read Data	Reset Service Indicat or	Programming	E30/Z1	E32	E31	E34	E36	E36/Z3	E38	E39	E46	E53	E52 (Z8)	E60/61	E63/64	E65	E66	E90/E91	E92/E93	E87	E83	E85 (Z4)	MINI
SIA II	V	N		N	M	V	V	Ø	V	Ŋ														
SIA III	V	N	Ø						V	N	M		N											
SIA IV	M	M	Ø									M	N									Ø	V	Ø
SBA	V	Ŋ	Ø														V				Ŋ			
CBS	M	M	Ø												N	V			M	V				

Additional Features for Service Interval Management Systems:

- Service interval reset of all vehicles up to 10/2007
- Service interval management on SIA III, SIA IV, SBA, and CBS.
- SIA III & SIA IV Service management allows:
 - Read Days since last service
 - Display Fuel consumption since last service
 - Program next Service or Inspection (In Km)
- SBA/CBS Programming

Gasoline Models:

- Engine Oil
- Spark Plugs
- Front Brake Pads
- Rear Brake Pads
- Brake Fluid
- Micro Filter
- Vehicle Control
- Oil Change Adjustment (%)

Diesel Models:

- Engine Oil
- Diesel Filter
- Front Brake Pads
- Rear Brake Pads
- Brake Fluid
- Micro Filter
- Vehicle Control
- Oil Change Adjustment (%)