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# CARSOFT BMW Ultimate Home V12 SPECIFICATIONS

## Intro:

Since 1988, **Carsoft** has developed independent alternatives to official factory BMW- and Mercedes diagnostic systems.
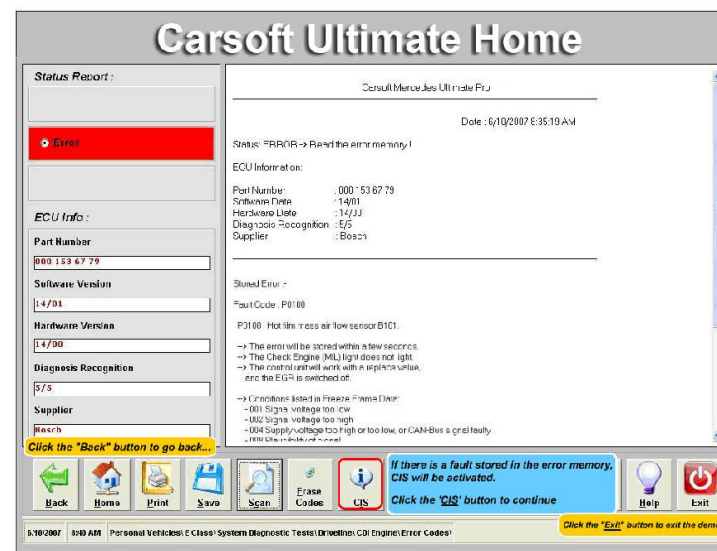
**Carsoft** BMW Diagnostic- & Repair systems are designed for most BMW- and Mini vehicles; build between MY 1988 and MY 2007.
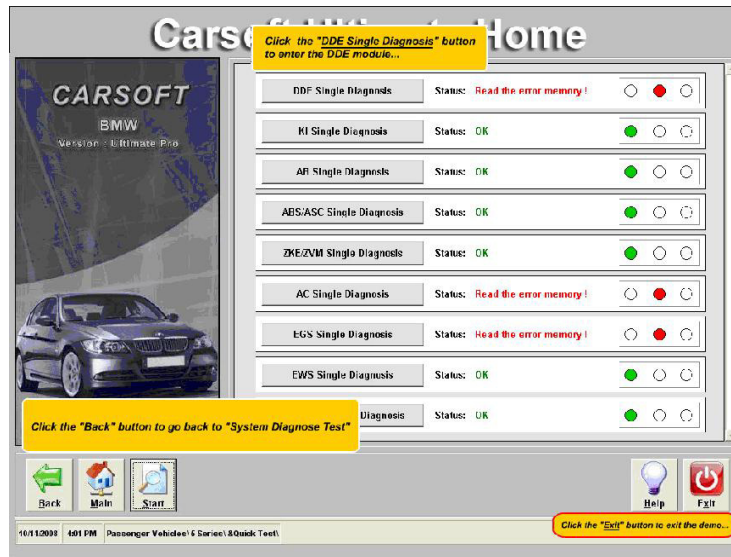
## Important Features:

Unlike many aftermarket systems, **Carsoft BMW V12** uses official BMW & Mini terminology, 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 with a serial connection, as long as they're Windows (98 / ME / 2000 / XP / Vista / 7 / 8 or 10) compatible.
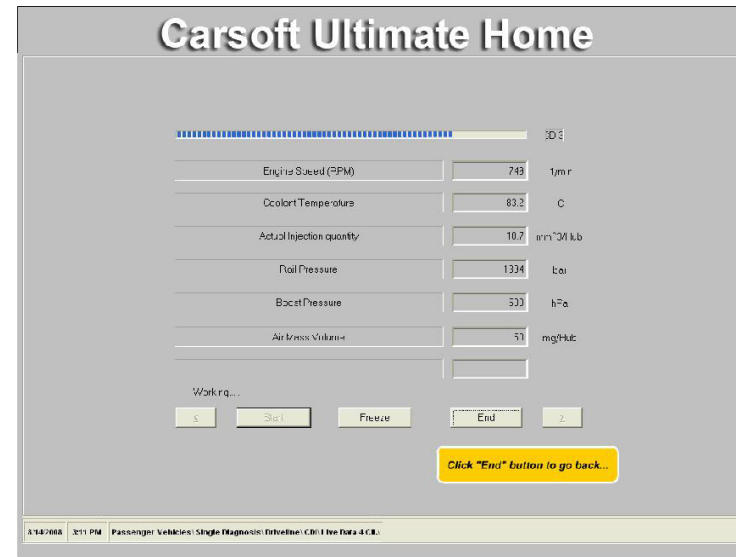
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**CARSOFT FEATURES:**

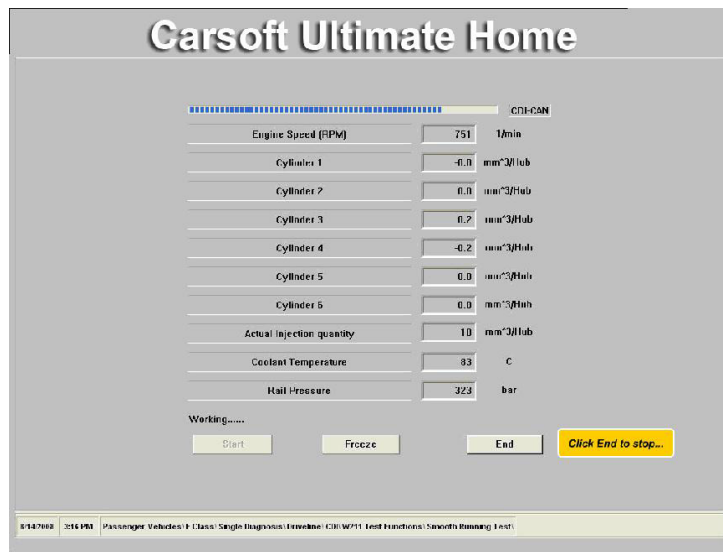►Comprehensive Diagnostic Abilities using correct OEM BMW code descriptions & information for all vehicles



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**► Automated Total Diagnosis of all systems.**



**►Relevant Data Streams**



**►Component Test and Calibration**



**►Module Coding**

**MODELS COVERED:**

E90
E91
E92
E93
E87
E60
E61
E63
E64
E65
E66
E83
E85
Mini R50 – R52 – R53 models



in addition to E30, E30 (Z1), E31, E32, E34, E36, E46, E38, E39, E52, E53, and E36/7

**Carsoft has always been a PC Based system, so you are not tied into a „Scan-tool" that will be obsolete and thrown away after a few years. If you need to replace your PC, just install the software on the new one and you are ready to go!**

## 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 <u>tests all systems in a few minutes without entering a VIN number</u>!  Carsoft uses intelligent technology to find the status of all the applicable modules in a vehicle in one easy automated test.

**In addition** to the Windows based Carsoft Diagnostic System for Mercedes vehicles, the integrated **Carsoft Information System (CIS)** offers "the" most fantastic Technical Repair Assistance…

After reading a fault code in the memory of the car, it's not always easy to localize the exact root of the problem.

Therefore, Carsoft has implement a system which offers their customers all required information to repair faults in the most effective and professional way.

Once the program is installed, CIS permanently runs in the background of the basic Carsoft Diagnostic System. The moment a fault in the car appears on the screen, and you would like to get more information, you just need to click on the help button and the "CIS" program will be activated.
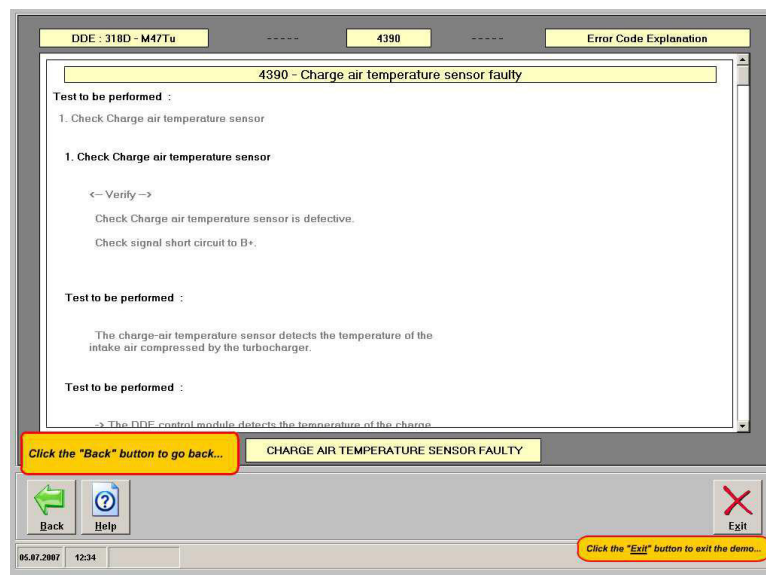
By activation, the " CIS " program "automatically" selects the information of the fault in question and will then offer you  ALL the technical assistance you need in order to solve the problem.

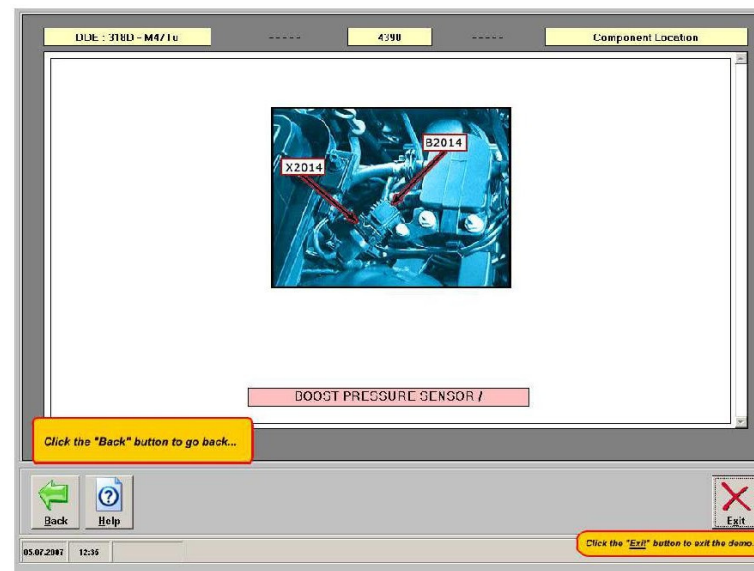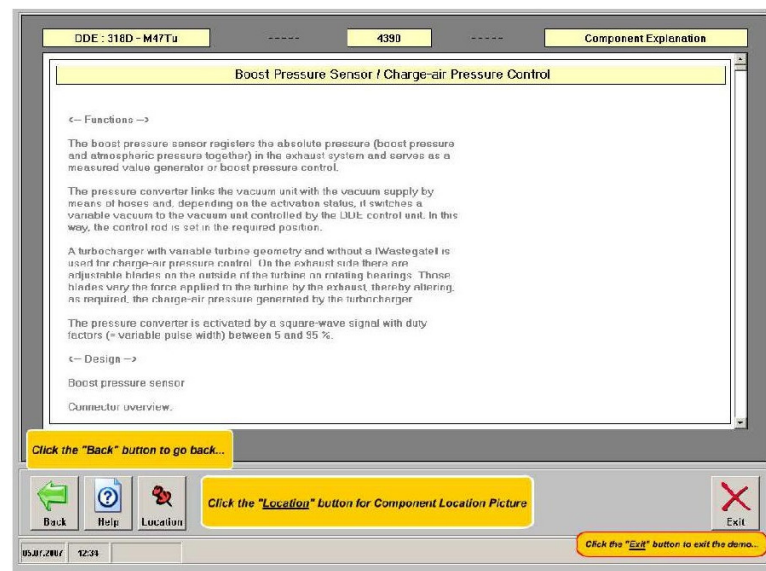The CIS Version for  Mercedes and Sprinter vehicles includes:

- **Component Locators with Assisting Pictures.**
- **Detailed Component Explanations and Pictures.**
- **Complete Wiring Diagrams with Active Legends and related Info.**
- **"Step by Step" Repair Assistance to fix the problem in the fastest and most professional way.**
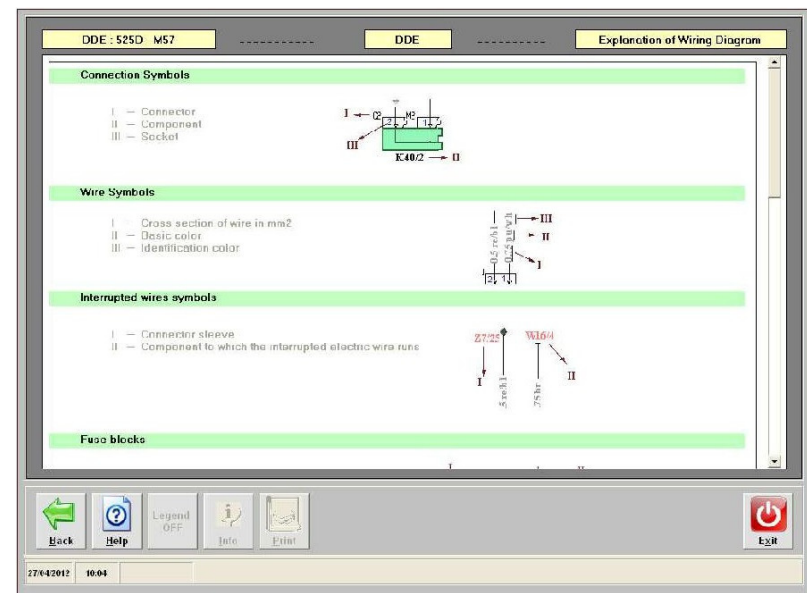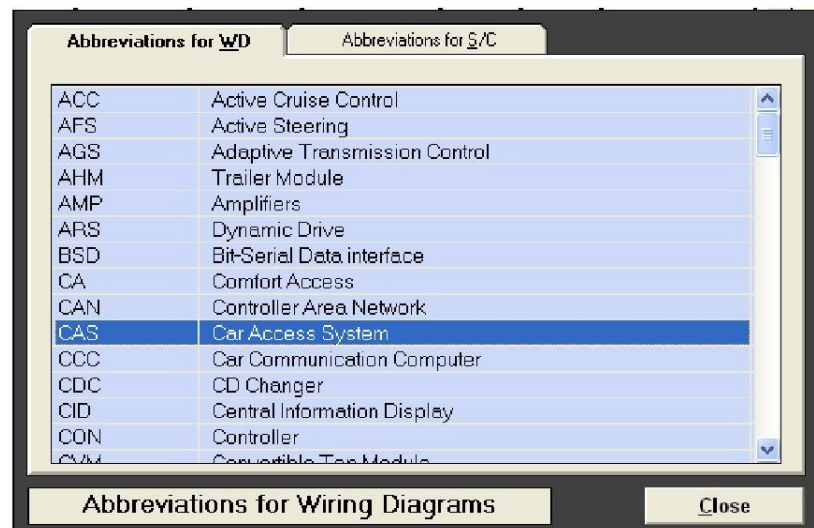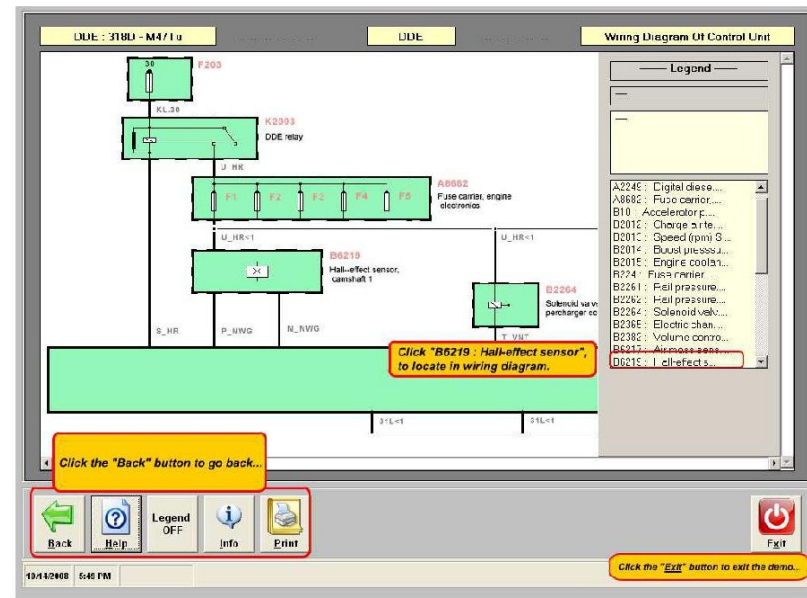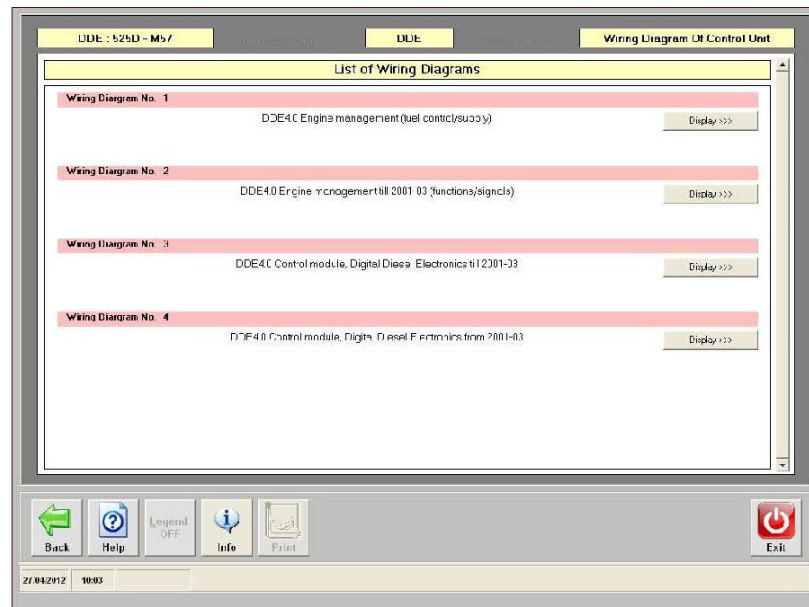
## ►CIS Error code explanation.



## ►CIS component explanation with location.

## ►CIS wiring diagram with active legend

**List of Wiring Diagrams** (DDE : 525D - M57)

Wiring Diagram No. 1 — DDE40 Engine management (fuel control/supply) — Display >>>

Wiring Diagram No. 2 — DDE40 Engine management till 2001-03 (functions/signals) — Display >>>

Wiring Diagram No. 3 — DDE40 Control module, Digital Diesel Electronics till 2001-03 — Display >>>

Wiring Diagram No. 4 — DDE40 Control module, Digital Diesel Electronics from 2001-03 — Display >>>

Back | Help | Legend OFF | Info | Print | Exit

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Wiring Diagram Of Control Unit (DDE : 318D - M47/Tu)

— Legend —

A2249 : Digital diese...
A8682 : Fuse carrier...
B10 : Accelerator p...
B2012 : Charge airte...
B2013 : Speed (rpm) S...
B2014 : Boost pressu...
B2015 : Engine coolan...
B224 : Fuse carrier
B2261 : Rail pressure...
B2262 : Rail pressure...
B2264 : Solenoid valv...
B2365 : Electric chan...
B2382 : Volume contro...
B6217 : Air mass sens...
B6219 : Hall-effect s...

KL30 — F203
K2003 DDE relay
J_HR
F1 F2 F3 F4 F5 — A8682 Fuse carrier, engine electronics
U_HR<1 — B6219 Hall-effect sensor, camshaft 1 — U_HR<1
B2264 Solenoid valve, supercharger co...
S_HR  P_NWG  N_NWG  U_VUT
3+L<1  3+L<1

*Click "B6219 : Hall-effect sensor", to locate in wiring diagram.*

*Click the "Back" button to go back...*

Back | Help | Legend OFF | Info | Print | Exit

*Click the "Exit" button to exit the demo...*

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**Abbreviations for WD** | Abbreviations for S/C

| | |
|---|---|
| ACC | Active Cruise Control |
| AFS | Active Steering |
| AGS | Adaptive Transmission Control |
| AHM | Trailer Module |
| AMP | Amplifiers |
| ARS | Dynamic Drive |
| BSD | Bit-Serial Data interface |
| CA | Comfort Access |
| CAN | Controller Area Network |
| CAS | Car Access System |
| CCC | Car Communication Computer |
| CDC | CD Changer |
| CID | Central Information Display |
| CON | Controller |
| CVM | Convertible Top Module |

**Abbreviations for Wiring Diagrams** | Close

---

Explanation of Wiring Diagram (DDE : 525D - M57)

**Connection Symbols**
I — Connector
II — Component
III — Socket
K40/2

**Wire Symbols**
I — Cross section of wire in mm2
II — Basic color
III — Identification color

**Interrupted wires symbols**
I — Connector sleeve
II — Component to which the interrupted electric wire runs

**Fuse blocks**

Back | Help | Legend OFF | Info | Print | Exit

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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 | Adaptation Reset From 01/95 | 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 | E83 | E85 (Z4) | MINI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DME/MS/BMS/MSS/EMS | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| DDE | ☑ | ☑ | ☑ | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| Automatic Transmission | ☑ | ☑ | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |

NOTE:  This specification list is an overview of specifications for worldwide BMW versions.  Some features may not apply uniformly to all vehicles, models, year of manufacture, or market specific models.
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## 1.1 Gasoline Engines: Engine Management Systems

| Gasoline Engine Module | Module Version Info | DTC Read + Erase | Live Data | Adaptation Reset From 01/95 | 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/E91 | E92/E93 | E87 | E83 | E85 (Z4) | MINI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DME 1.1 | ☑ | ☑ | | | | ☑ | ☑ | | ☑ | | | | | | | | | | | | | | | | | |
| DME 1.2 | ☑ | ☑ | | | | | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | | | |
| DME 1.3 | ☑ | ☑ | | | | ☑ | ☑ | | ☑ | ☑ | | | | | | | | | | | | | | | | |
| DME 1.7 | ☑ | ☑ | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | |
| DME 1.7.1 | ☑ | ☑ | | | | | ☑ | ☑ | | | | | | | | | | | | | | | | | | |
| DME 1.7.2 | ☑ | ☑ | | | | | ☑ | | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | |
| DME 1.7.3 | ☑ | ☑ | | ☑ | ☑ | | | | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | |
| DME 3.1 | ☑ | ☑ | | | | | | | | ☑ | ☑ | | | | | | | | | | | | | | | |
| DME 3.3 | ☑ | ☑ | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | | |
| DME 3.3.1 | ☑ | ☑ | | | | | | | | ☑ | ☑ | | | | | | | | | | | | | | | |
| DME 5.2 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | ☑ | | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | |
| DME 5.2.1 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | ☑ | | | ☑ | ☑ | | | | | | | | | | | | | |
| MS 40.0/40.1 | ☑ | ☑ | ☑ | ☑ | | | | | | | ☑ | ☑ | | | | | | | | | | | | | | |
| MS 41 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | |
| MS 41.0/1/2 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | ☑ | | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | |
| MS 42 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | |
| MS 43 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | ☑ | | ☑ | ☑ | ☑ | | | | | | | | ☑ | ☑ | ☑ |
| BMS 43 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | ☑ | | ☑ | | | ☑ | | | | | | | | | | | | |
| MS 45 | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | ☑ | |
| MS 45.1 | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | |
| BMS 46 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | ☑ | ☑ | | | ☑ | | | | | | | | | | | | |
| MS S50 | ☑ | ☑ | | | | | | | | ☑ | ☑ | | | | | | | | | | | | | | | |
| MS S52 | ☑ | ☑ | | | | | | | | | | | | ☑ | | | ☑ | | | | | | | | | |
| MS S54 | ☑ | ☑ | | | | | | | | | | | ☑ | | ☑ | | | | | | | | | | | |
| ME 7.2 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | | ☑ | ☑ | |
| ME 9.2 (ME9) | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | ☑ | |
| ME 9.2.1 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | | | | | ☑ | | | |
| EMS2 | ☑ | ☑ | | | | | | | | | | | | | | | | | | | | | | | | | ☑ |

## 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.**


## 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 | Adaptation Reset | EWS Align | E30 | E34 | E36 | E38 | E39 | E46 | E53 | E60/61 | E65 | E90/E91 | E92/E93 | E87 | E83 | MINI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DDE 1.xx | ☑ | ☑ | | | | ☑ | | | | | | | | | | | | | |
| DDE 1.1.2 | ☑ | ☑ | | | | ☑ | | | | | | | | | | | | | |
| DDE 1.2.1 | ☑ | ☑ | | | | ☑ | | | | | | | | | | | | | |
| DDE 2.0 | ☑ | ☑ | | | | | ☑ | ☑ | | | | | | | | | | | |
| DDE 2.1 | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | | | | | | | | | |
| DDE 2.2 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | ☑ | ☑ | | | | | | | | |
| DDE 3.0 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | ☑ | | | | | | | |
| DDE 4.0 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | | | | | | |
| DDE 4.1 Master | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | | ☑ | | | | | | |
| DDE 4.1 Slave | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | | ☑ | | | | | | |
| DDE 5.0 | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | ☑ | | | | | | ☑ | ☑ |
| DDE 6.0 | ☑ | ☑ | ☑ | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | | |


## 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.**

NOTE:  This specification list is an overview of specifications for worldwide BMW versions.  Some features may not apply uniformly to all vehicles, models, year of manufacture, or market specific models.
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# 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 | ☑ | ☑ | | | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | | |
| GS 1.2x | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | |
| GS 2.2x | ☑ | ☑ | | | ☑ | ☑ | | ☑ | | | | | | | | | | | | | | | |
| GS 4.xx | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | |
| GS 7.xx | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | | |
| GS 7.32 | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | | | | ☑ | | | | | | | | | | | | |
| GS 8.xx | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | |
| GS 8.51 | ☑ | ☑ | ☑ | ☑ | | | ☑ | ☑ | | | ☑ | ☑ | ☑ | | | | | | | | | | |
| GS 8.52 | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | | ☑ | ☑ | | | | | | | | | | |
| GS 8.55 | ☑ | ☑ | ☑ | ☑ | | | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | |
| GS 8.60.0 | ☑ | ☑ | ☑ | ☑ | | | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | |
| GS 8.60.1 | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | | ☑ | | | | | | | | | | | |
| GS 8.60.2/3 | ☑ | ☑ | ☑ | ☑ | | | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | |
| GS 8.60.4 | ☑ | ☑ | ☑ | ☑ | | | ☑ | ☑ | | | ☑ | ☑ | ☑ | | | | | | | | | | |
| GS 8.70 | ☑ | ☑ | ☑ | ☑ | | | | ☑ | | ☑ | ☑ | ☑ | | | | | | | | | | | |
| GS 9.xx | ☑ | ☑ | ☑ | ☑ | | ☑ | ☑ | | | ☑ | ☑ | | | | | | | | | | | | |
| GS 9.20 | ☑ | ☑ | ☑ | ☑ | | ☑ | ☑ | | | ☑ | ☑ | | | | | | | | | | | | |
| GS 9.22 | ☑ | ☑ | ☑ | ☑ | | ☑ | ☑ | | | ☑ | ☑ | | | | | | | | | | | | |
| GS  JATCO | ☑ | ☑ | | | | | ☑ | ☑ | | | | | | | | | | | | | | | |
| GS 19 | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | |
| GS 20 | ☑ | ☑ | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | | | | ☑ | ☑ |

## Automatic Transmission Additional Features:

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

## 2.0 <u>Chassis Systems:</u>

**Carsoft BMW – MINI V712 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 | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| ASC | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| DSC | ☑ | ☑ | | | ☑ | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |

## 2.1 Brake and Traction Systems:  New Features and Coverage

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

| 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 | MINI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ABS 3Channel* | ☑ | ☑ | | | ☑ | | | | | | | | | | | | | | | | | |
| ABS 4 Channel* | ☑ | ☑ | | ☑ | ☑ | | | | | | | | | | | | | | | | | |
| ABS/ MK4-3* | ☑ | ☑ | | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | | |
| ABS5 | ☑ | ☑ | | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | | |
| ABS MK20/I | ☑ | ☑ | | | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | |
| ABS MKIV-G | ☑ | ☑ | | | ☑ | ☑ | | ☑ | | | | | | | | | | | | | | |
| ABS MK60 | ☑ | ☑ | | | | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | ☑ |
| ABS/ASC MK4-3 | ☑ | ☑ | | ☑ | ☑ | ☑ | | ☑ | ☑ | ☑ | | | | | | | | | | | | |
| ABS/ASC+T* | ☑ | ☑ | ☑ | | ☑ | ☑ | | ☑ | ☑ | | | | | | | | | | | | | |
| ABS/ASC ITT-TEVES | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | |
| ABS/ASC BOSCH | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | |
| ABS/ASC5 | ☑ | ☑ | | ☑ | | ☑ | | ☑ | | | | | | | | | | | | | | |
| ABS/DSC2 | ☑ | ☑ | | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | |
| ABS/DSC3 BOSCH | ☑ | ☑ | | ☑ | | ☑ | | ☑ | ☑ | ☑ | | | | | | | | | | | | |
| ABS/DSC3 TEMIC | ☑ | ☑ | | | | | ☑ | ☑ | ☑ | | | | | | | | | | | | | |
| DSC  ITT TEVES | ☑ | ☑ | | | | | | | | ☑ | | | | | | | | | | | | |
| DSC3 MK20 | ☑ | ☑ | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | ☑ | |
| DSC3 MK60 | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | | | | | | | | | | | ☑ | |
| DSC 5.3 | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | |
| DSC5.7[1] | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | ☑ | | | ☑ | ☑ | ☑ | | | | | | ☑ |
| DSC8 | ☑ | ☑ | | | | | | | | | | ☑ | ☑ | | | | ☑ | ☑ | ☑ | ☑ | | |

Notes:

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

NOTE:  This specification list is an overview of specifications for worldwide BMW versions.  Some features may not apply uniformly to all vehicles, models, year of manufacture, or market specific models.
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## 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 | 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 | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | ☑ | ☑ | ☑ |
| Safety Gateway Module | ☑ | ☑ | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | |

*See complete specifications for actual modules covered

## 3.1 **Airbag and Safety Systems:**

| Safety System Control Module | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SRS1 | ☑ | ☑ | ☑ | | | ☑ | ☑ | | | | | | | | | | | | | | | | |
| 5WK4 060 | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | | |
| BAE | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | |
| ZAE | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | |
| ZAE2 | ☑ | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | |
| MRS | ☑ | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | |
| MRS2 | ☑ | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | |
| MRS3 | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | |
| MRS4 | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | ☑ |
| MRS4D | ☑ | ☑ | | | | | | | | | | | | | | | | | | | ☑ | | |
| SIM | ☑ | ☑ | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | ☑ | |
| SASL | ☑ | ☑ | | | | | | | | | | | | | | ☑ | ☑ | | | | | | |
| SASR | ☑ | ☑ | | | | | | | | | | | | | | ☑ | ☑ | | | | | | |
| SBSL | ☑ | ☑ | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | |
| SBSR | ☑ | ☑ | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | |
| SSFA | ☑ | ☑ | | | | | | | | | | | | | | ☑ | ☑ | | | | | | |
| SSFB | ☑ | ☑ | | | | | | | | | | | | | | ☑ | ☑ | | | | | | |
| STVL | ☑ | ☑ | | | | | | | | | | | | | | ☑ | ☑ | | | | | | |
| STVR | ☑ | ☑ | | | | | | | | | | | | | | ☑ | ☑ | | | | | | |
| SSH | ☑ | ☑ | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | |
| SFZ | ☑ | ☑ | | | | | | | | | | | | | | ☑ | ☑ | | | | | | |
| ASE | ☑ | ☑ | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | |
| SGM | ☑ | ☑ | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | |

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

## 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) | MINI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Module | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | ☑ | ☑ | ☑ |
| Instrument Cluster | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| Convertible Top | ☑ | ☑ | | | | | | | | | ☑ | | ☑ | | | | | | | | | | ☑ | |
| Climate Control/AC | ☑ | ☑ | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| On-Board Computer | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | |
| Rain/Light Sensor | ☑ | ☑ | | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | |
| Light Check Module | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | ☑ | ☑ | ☑ |
| Park Distance Control | ☑ | ☑ | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | |
| Central Gateway | ☑ | ☑ | | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | |
| Anti-Theft Alarm | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | |
| Immobilizer | ☑ | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | ☑ | ☑ | ☑ | ☑ |
| Power Module | ☑ | ☑ | | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | | | | | | |
| Wiper Module | ☑ | ☑ | | | | | | | | | | | | | | | ☑ | ☑ | | | | | | |
| Footwell Module | ☑ | ☑ | | | | | | | | | | | | | | | | | ☑ | ☑ | | | | |

## 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 | ☑ | ☑ | ☑ | ☑ | | ☑ | | ☑ | | | | | | | | | | | | | | | | | |
| ZKE II | ☑ | ☑ | ☑ | ☑ | | | ☑ | | | | | | | | | | | | | | | | | | |
| ZKE III | ☑ | ☑ | ☑ | ☑ | | | | | | | ☑ | ☑ | | ☑ | | | | | | | | | | | |
| ZKE IV | ☑ | ☑ | | ☑ | | | | | ☑ | ☑ | | | | | | | | | | | | | | | |
| ZKE V | ☑ | ☑ | ☑ | ☑ | | | | | | | | | ☑ | | | | | | | | | | | ☑ | |
| ZKE V(RD) | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | | | | | | | ☑ | | |
| CAS | ☑ | ☑ | ☑ | | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | |
| RLS | ☑ | ☑ | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | |
| PDC* | ☑ | ☑ | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| i-Drive | | | ☑ | | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | |

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

### Additional Features for Central Body Electronics:

- **Full component activation on ZKE systems:**
    - **Power Windows**
    - **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**

NOTE:  This specification list is an overview of specifications for worldwide BMW versions.  Some features may not apply uniformly to all vehicles, models, year of manufacture, or market specific models.
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## 4.2 Driver Information and Display Systems: Instrument Cluster, Multi-Information Display, On-Board Computer, and Central Information Display.

| Central Module/General Module Versions | Module Version Info | DTC Read + Erase | Version 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 | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| KOMBI (BASE) | ☑ | ☑ | ☑ | | | | | | | ☑ | | ☑ | | | | | | | | | | | |
| IKE | ☑ | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | ☑ | | |
| BC | ☑ | ☑ | ☑ | | | | | | | ☑ | | ☑ | | | | | | | | | | | |
| BC (BASE) | ☑ | ☑ | ☑ | | | | | | | ☑ | | ☑ | | | | | | | | | | | |
| MID | ☑ | ☑ | ☑ | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | |

1. Except for E36/5

## 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) | MINI |
|---|---|---|---|---|---|---|---|---|
| CVM 1 | ☑ | ☑ | ☑ | | | | | |
| CVM 2 | ☑ | ☑ | | ☑ | | | | |
| CVM 3 | ☑ | ☑ | | | ☑ | | | |
| CVM 4 | ☑ | ☑ | | | | | ☑ | |
| CVM 5 | ☑ | ☑ | | | | ☑ | | |

## 4.4 <u>Heating, Air Conditioning, and Climate Control</u>:

| Climate Control System | Module Version Info | DTC Read + Erase | Version 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) | MINI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IHKR | ☑ | ☑ | | | | ☑ | ☑ | | | ☑ | ☑ | ☑ | | | | | | | | | ☑ | | ☑ |
| IHKA | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | |
| IHKS | ☑ | ☑ | | | | | | ☑ | | | | | ☑ | | | | | | | | | | |

**<u>Additional Features for Climate Control Systems:</u>**

- **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

| Immobilizer 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) | MINI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DWA | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | ☑ | ☑ | ☑ |
| EWS 1 | ☑ | ☑ | | | | ☑ | | ☑ | ☑ | | | | | | | | | | | | | | | | |
| EWS 2 | ☑ | ☑ | ☑ | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | |
| EWS 3 3.2 | ☑ | ☑ | ☑ | | | | ☑ | ☑ | | | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | ☑ | |
| EWS 3 3.3 | ☑ | ☑ | ☑ | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | ☑ | ☑ | |
| EWS 3D | ☑ | ☑ | ☑ | | | | | | | ☑ | | | | | | | | | | | | | | | |
| CAS | ☑ | ☑ | N/A | | | | | | | | | | | | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | |
| LCM/CCM | ☑ | ☑ | | ☑ | | | | | | | | | ☑ | | | | | | | | | | | | |
| LCM | ☑ | ☑ | | ☑ | | | | | | | | ☑ | ☑ | | | | | | | | | | | | |
| LCM III | ☑ | ☑ | | ☑ | | | | | | | | ☑ | ☑ | ☑ | | | | | | | | | | | |
| LSZ | ☑ | ☑ | | | | | | | | | | | ☑ | | | | | | | | | | ☑ | ☑ | |

*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)**

NOTE:  This specification list is an overview of specifications for worldwide BMW versions.  Some features may not apply uniformly to all vehicles, models, year of manufacture, or market specific models.
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## 5.0 <u>Service Interval Reset and Management Systems</u>

**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) | E60/61 | E63/64 | E65 | E90/E91 | E92/E93 | E87 | E66 | E83 | E85 (Z4) | MINI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Service Interval System | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |

\* Programming supported on SIA III and newer

## 5.1 Service Interval Management

| Service Interval Module | Read Data | Reset Service Indicator | 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 | ☑ | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | | | | | |
| SIA III | ☑ | ☑ | ☑ | | | | | | ☑ | ☑ | ☑ | | ☑ | | | | | | | | | | | |
| SIA IV | ☑ | ☑ | ☑ | | | | | | | | | ☑ | ☑ | | | | | | | | | ☑ | ☑ | ☑ |
| SBA | ☑ | ☑ | ☑ | | | | | | | | | | | | | | ☑ | ☑ | | | ☑ | | | |
| CBS | ☑ | ☑ | ☑ | | | | | | | | | | | | ☑ | ☑ | | | ☑ | ☑ | | | | |

**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:** | **Diesel Models:** |
|---|---|
| • **Engine Oil** | • **Engine Oil** |
| • **Spark Plugs** | • **Diesel Filter** |
| • **Front Brake Pads** | • **Front Brake Pads** |
| • **Rear Brake Pads** | • **Rear Brake Pads** |
| • **Brake Fluid** | • **Brake Fluid** |
| • **Micro Filter** | • **Micro Filter** |
| • **Vehicle Control** | • **Vehicle Control** |
| • **Oil Change Adjustment (%)** | • **Oil Change Adjustment (%)** |