

# Achieve the impossible

## ABRITES Diagnostics for Mazda Online User Manual

Version: 31.9

www.ABRITES.com

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### I. Abrites diagnostics for Mazda Online:

The Abrites diagnostics for Mazda Online is the next generation in the evolution of the Abrites Diagnostics for Mazda. It provides dealer level diagnostics, live value and diagnostic trouble code monitoring, locating and clearing in order to assist the diagnostician to locate and resolve any issues with the vehicle at a dealer level in the environment of their own workshop. It can be installed on any Windows based system higher than XP and requires an AVDI interface to operate.

### II. Using the Abrites diagnostics for Mazda Online:

The Abrites diagnostics for Mazda is an Online application and as such it requires the computer you have installed it on to be connected to the Internet. We can suggest a connection to the Internet via 3G/4G from a mobile device as well as a WI-FI network. Please ensure to have port 8443 allowed by your Internet service provider in order to ensure the correct functionality of your Abrites diagnostics for Mazda Online. Using the icon in the top right of your software screen you will be able to see the internet connectivity and signal strength and the three horizontal lines will allow you to choose a language in which the software to operate:



When you open the Abrites Quick Start you can select the Abrites diangostics for Mazda Icon:



After clicking the Abrites diagnostics for Mazda Icon you will see the software start up. The software will automatically start detecting the vehicle your AVDI is connected to. Once that is done you will see a list of modules.



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If the vehicle is not detected automatically, that would mean it is a model that is not yet covered, and you would see the followig:

| C ABRITES Diagnostics 31.9 www.abrites.com |                              | – 🗆 X |
|--|------------------------------|-------|
| < Home                                     |                              | •oDD  |
|  | Select Vehicle               |       |
| Mazda                                      | mazda_local Is Not Available |       |
|  |                              |       |
|  | Please wait 6                | STOP  |

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If the vehicle is auto-detected and you would see the following window and will be able to continue with the diagnostics session for the car:

| C ABRITES Diagnostics 31.9 www.abrites.com |                | – 🗆 X |
|--|----------------|-------|
| K Home Mazda                               |                |       |
|  |                |       |
| CalibrationID                              | PYL3-188K2-G   |       |
| Model                                      | MAZDA6/ ATENZA |       |
| Engine                                     | PY_U,2.5L      |       |
| Drive                                      | 2WD            |       |
| Transmission                               | Automatic      |       |
| Year                                       | after 2015     |       |
|  |                |       |
|  |                |       |
|  |                |       |
|  | Continue       |       |

Once software has been launched, it will detect all available modules in the car and the DTCs, in the example below the car actually had no faults:

| С АВІ | RITES Diagno: | stics 31.9 www     | w.abrites.com      |                                      |   | – 🗆 ×   |
|-------|---------------|--------------------|--------------------|--------------------------------------|---|---------|
| <     | Home          | Mazda              | Units              |                                      |   | <b></b> |
| Enter | Filter        | - 2                |                    |                                      | General Diagnostics                                   |         |
|       |               | Address            | Protocol           | Acronym                              | Name  | Faults  |
|       | Scan All      | 70E                | ISO1422<br>500kb/s | 9 FSC                                | Forward Sensing Camera                                |         |
|       |               | 728                | ISO1422<br>500kb/s | 9 IC                                 | Instrument Cluster                                    |         |
|       | 72E           | ISO1422<br>500kb/s | 9 F_BCM            | Front Body Control Module            |   |         |
|       | 738           | ISO1422<br>500kb/s | 9 EPS              | Electronic-Controlled Power Steering |   |         |
|       |               | 739                | ISO1422<br>500kb/s | 9 SSU                                | Start Stop Unit                                       |         |
|       |               | 73B                | ISO1422<br>125kb/s | 9 EATC                               | Electronic Air Temperature Controller                 |         |
|       |               | 73C                | ISO1422<br>500kb/s | 9 AFS/ALM                            | Adaptive Front Lighting System / Auto Leveling Module |         |
|       |               | 73E                | ISO1422<br>125kb/s | 9 PSM_MZ                             | Parking Sensor Module                                 |         |
|       |               | 73F                | ISO1422<br>500kb/s | 9 RCM                                | Restraint Control Module                              |         |
|       |               | 74C                | ISO1422<br>500kb/s | 9 DSM                                | Driver's Seat Module                                  |         |
|       |               | 74E                | ISO1422<br>500kb/s | 9 DCDC                               | DC to DC Converter Control Module                     |         |
|       |               | 75E                | ISO1422<br>500kb/s | 9 EPB                                | Electronic Parking Brake                              |         |
|       |               | 768                | ISO1422<br>500kb/s | 9 ABS                                | Antilock braking system                               |         |
| AB    | RITES         | 76C                | ISO1422<br>500kb/s | 9 SBS/MRCC                           | Smart Brake Support/Mazda Radar Cruise Control        |         |

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Once a unit is opened, you will be able to read the fault codes from the "Fault Codes" button, clear the DTCs, open custom sessions, monitor live data, etc. Entering each of these modules will show you fault codes if such are present and also, live values (if available) as well as all the identifications and extended IDs of the module.

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### Here is an example with the live data:

| ABRITES Diagnostics 31.9 www.abrites.com |        |   |        | - 🗆 ×        |
|--|--------|---|--------|--------------|
| <  | Home   | Mazda Units PCM LiveData                                  |        |              |
| Enter                                    | Filter |   | Values |              |
| -  | Stop   | A/C load signal voltage                                   |        | 42.74 Volt   |
|  |        | ✓ evaporator temperature signal voltage                   |        | 42.78 Volt   |
|  |        | ✓ evaporator temperature                                  |        | -15.50 C     |
|  |        | Ambient Air Temperature                                   |        | 9.00 C       |
|  |        | ✓ A/C Request Signal                                      |        | On           |
| A-B-                                     |        | ✓ Air conditioning compressor cycling switch              |        | On           |
|  |        | Active Air Shutter Position Actual: 0%(Close) / 100%(Oper | )      | 100.00 %     |
|  |        | ✓ Active Air Shutter Module Calibration Status            |        | Not Done NUM |
|  |        | ✓ Alternator Current Sensor                               |        | 42.74 Volt   |
|  |        | Generator field current control duty signal               |        | 29.25 %      |
|  |        | generator output voltage                                  |        | 1094.13 Volt |
|  | RITES  | Accelerator Pedal Position                                |        | 0.00 %       |
|  |        | <ul> <li>Accelerator pedal position sensor 1</li> </ul>   |        | 781.00 Volt  |