



ABRITES DIAGNOSTICS FOR MCLAREN ONLINE

User manual
version 1.1



Important notes

The Abrites software and hardware products are developed, designed and manufactured by Abrites Ltd. During the production process we comply to all safety and quality regulations and standards, aiming at highest production quality. The Abrites hardware and software products are designed to build a coherent ecosystem, which effectively solves a wide range of vehicle-related tasks, such as:

- Diagnostic scanning;
- Key programming;
- Module replacement,
- ECU programming;
- Configuration and coding.

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Each warranty claim is inspected individually by our team and the decision is based upon thorough case consideration.

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Safety information

The Abrites products are to be used by trained and experienced users in diagnostics and reprogramming of vehicles and equipment. The user is assumed to have a good understanding of vehicle electronic systems, as well as potential hazards while working around vehicles. There are numerous safety situations that cannot be foreseen, thus we recommend that the user read and follow all safety messages in the available manual, on all equipment they use, including vehicle manuals, as well as internal shop documents and operating procedures.

Some important points:

Block all wheels of the vehicle when testing. Be cautious when working around electricity.

Do not ignore the risk of shock from vehicle and building-level voltages.

Do not smoke, or allow sparks/flame near any part of the vehicle fuel system or batteries.

Always work in an adequately ventilated area, vehicle exhaust fumes should be directed towards the exit of the shop.

Do not use this product where fuel, fuel vapours, or other combustibles could ignite.

In case any technical difficulties occur, please contact the

Abrites Support Team by email at support@abrites.com.

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List of revisions

Date	Chapter	Description	Revision
28.10.2025	ALL	Document created.	1.0

1. Introduction

Congratulations on choosing our wonderful product!

The “Abrates Diagnostics for McLaren Online” is an Online server based Abrites software for McLaren vehicles.

Advanced Diagnostic for McLaren Vehicles (ML001) is a specialized software solution developed to provide comprehensive diagnostic, configuration, and calibration capabilities for McLaren vehicles. Designed for professional automotive technicians, it delivers advanced functions that go beyond standard diagnostics, ensuring precise control and efficient maintenance of complex McLaren systems.

Supported essential features such as stored data writing (coding), vehicle and gateway configuration alignment, and a set of guided calibration and diagnostic functions covering key control units including CCU, ECM, ESP, SAS, and more. Subsequent versions will expand the functionality with VIN change support and additional guided procedures.

For proper operation of your diagnostic software you will need a corresponding interface for connection between your PC and vehicle named “AVDI”.

AVDI is an interface produced by Abrites Ltd. intended to act as an interface between the PC and the electronic control units.

AVDI should be used with ABRITES software produced by Abrites Ltd.

ABRITES is a trade mark of Abrites Ltd

2. Abrites Diagnostics for McLaren

2.1 Scope of the manual

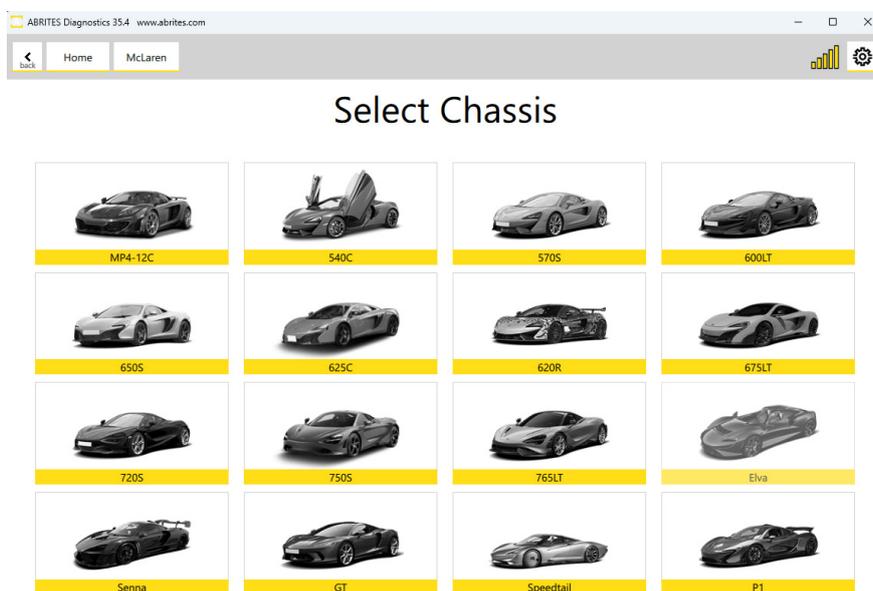
This document describes the usage of Abrites Diagnostics for McLaren Online. The document is applicable for the latest software version. In this manual we suppose that the software for your AVDI interface is already installed. Please refer the "AVDI Common User's Manual" in case it is not.

System requirements:

Minimum system requirements – Windows 11

2.2 Getting Started

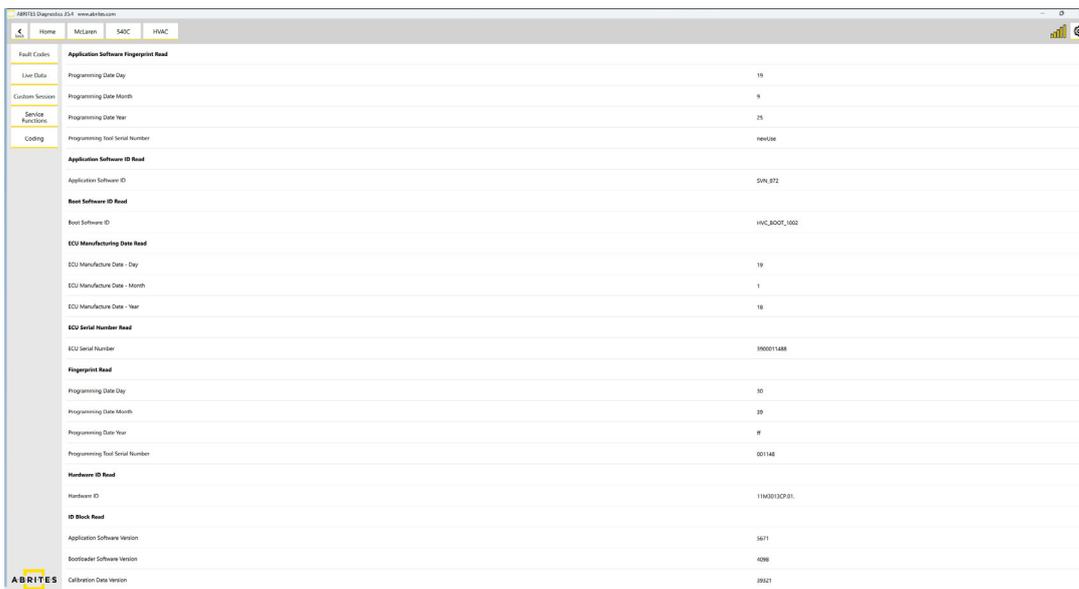
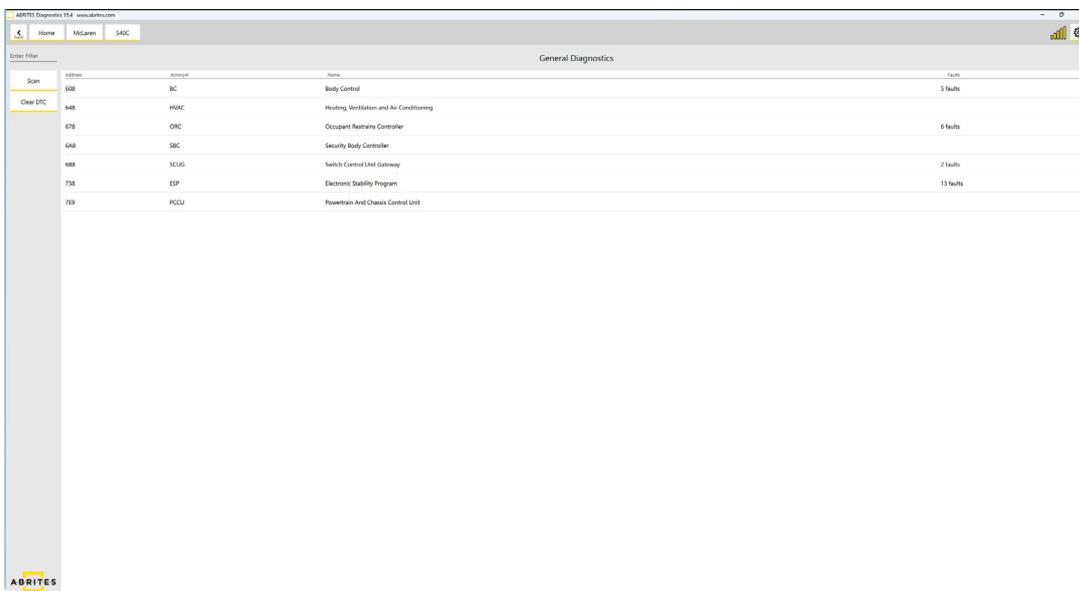
You can start Abrites Diagnostics for McLaren Online by starting the Abrites Quick Start application and selecting McLaren icon. Once you select the brand you can select the model you are working on



3. Diagnostic Functionalities

The ABRITES Diagnostics for McLaren offers all standard functionalities as follows:

- Full Vehicle Scan
- Read/Clear DTCs
- Live Data Monitoring



3. Special Functions

The Advanced Diagnostic for McLaren Vehicles (ML001) provides a powerful range of special functions designed to support configuration, calibration, and diagnostic tasks across all McLaren models. These functions allow technicians to perform complex operations with precision and confidence, ensuring optimal performance and system synchronization.

1. **Stored Data Write (Coding)** Enables modification and adaptation of control unit parameters. This includes writing stored data and performing coding operations to align system configurations when replacing or updating modules.

2. **Vehicle Configuration Alignment**

Automatically synchronizes the vehicle configuration and gateway configuration, ensuring consistent system communication and eliminating configuration mismatches after component replacements or updates.

3. **Guided Functions**

Interactive, step-by-step guided procedures that simplify complex calibrations and adaptations. Current guided functions include:

- [CCU] Acceleration Zero Calibration
- [CCU] Suspension Pressure Sensor Calibration
- [SCML/SMCR] Seat Calibration
- [SAS] Zero Position Steering Wheel (Fine Tuning)
- [ESP] Yaw Rate Sensor Calibration
- [SCUG] Steering Column Calibration
- [DMR/DML] Door Windows Calibration

4. **Diagnostic Tests**

Comprehensive test routines for evaluating system performance and component functionality:

- [ADI] Speaker System and Output Tests
- [CCU] Adaptive Damping Configuration Check
- [ECM] Cam Control, Catalyst, Purge System, and Secondary Air Diagnostics
- [ECM] Throttle Adaptations Clear/Save
- [HVAC] Sensor Electrical Test

5. **Resets**

Functions designed to restore control units to factory or default conditions:

- [PCCU/TCU] Gear and Clutch Adaptations Reset
- [TPMS] TPMS Factory Reset
- [ADI/IC] ADI Default Configuration Restore

6 Configurations

- Options for enabling, disabling, or modifying vehicle features:
- [ADI] Radio Configuration
- [BC] Heated Screen Configuration
- [ESP] Dynamometer Mode Enable

