

MG Flasher Bench Unlock for Select BMW MG1 Bosch Aurix ECUs

Download MG Flasher from the Play Store or App Store for free and connect to your vehicle using an ENET Wi-Fi adapter (or cable if you prefer); please refer to our User Manual for details on connecting to your vehicle. Once connected, press “*Check for Support*” to automatically check if your ECU requires bench unlocking services. If your ECU requires a bench unlock, please contact the closest Authorized Dealer who can provide this service by looking on our dealer map: <https://www.mgflasher.com/dealer-locator/>.

Many different MG1 Aurix ECU bootloaders (BTLD) will be flash-able in MG Flasher (depending if server files are available). A handful of different bootloader IDs are already added (48DC, 4295 and 5D53) but to determine the security level (and bench unlocking is required) the version numbers are more important. You can determine the ID and version numbers in MG Flasher App (during first connect, or “*Diagnostic Page*” -> “*Read ECU*”) and through E-sys.

The following bootloader versions are supported (sorted by increasing BTLD version numbers):

BTLD-001.007.001 **High Security** (bench unlock required)
BTLD-001.009.003 **Low Security** (in App, OBD unlockable)
BTLD-001.011.001 **Low Security** (in App, OBD unlockable)
BTLD-001.011.002 **High Security** (bench unlock required)
BTLD-001.012.001 **High Security** (bench unlock required)
BTLD-001.014.001 **High Security** (bench unlock required)
BTLD-001.016.001 **High Security** (bench unlock required)
BTLD-001.020.001 **Low Security** (in App, OBD unlockable)
BTLD-001.020.002 **High Security** (bench unlock required)

The app provides many fail-safe methods during flashing, and one of them is to detect if the ECU is unlockable via OBD. If it must be unlocked on the bench, we have enabled 3rd party unlock detection for greater compatibility with different bench tools. Magic Motorsport’s excellent FLEX tool is available for MG Flasher Authorized Dealers to purchase and use with our exclusive built-in unlocking method. MG Flasher’s unlock is unique and provides excellent features:

- CVN is untouched (kept the same), helps with maintaining warranty
- Flashing counter is frozen, helps with tune detectability
- OBD read protection is applied, deterrent from software pirates

Please contact us for bench unlock instructions/details.

UPDATE: As of around July 2020, Bosch and BMW have updated their ECU hardware to further increase security against any methods of unlocking or tuning. Current universal methods for OBD and bench flashing has been entirely blocked on this new hardware revision. We are not aware of any companies who have successfully unlocked and flashed these ECUs (as of January 2021). MG Flasher plans to tackle this global problem over the coming months. Soon we will add detection to differentiate the newest ECU hardware and inform users in app when they have connected to a blocked ECU.