

# Magneti Marelli MIU G4

For Renault ECU Tool interface



April 2021

## 1. Introduction

**MIUG4 Programmer** is an application for programming of Magneti Marelli **MIUG4** throttle unit, that is used in **Piaggio Group** scooters 2018+. No physical access to EEPROM is required – all functions work by CAN-BUS in on the bench connection or by diagnostic plug in the scooter.



## 2. PC requirements

**Software uses Renault ECU Tool's interface** that connects to desktop or laptop PC using any free USB port. It is powered from USB port and from external power source (AC/DC power supply or scooter battery). Software can run on Windows 98, Windows XP, Windows Vista, Windows 7, Windows 10.

D2XX USB drivers can be downloaded from here:

[https://www.ftdichip.com/Drivers/CDM/CDM21228\\_Setup.zip](https://www.ftdichip.com/Drivers/CDM/CDM21228_Setup.zip)

## 3. Requirements for additional equipment

**For key making steps you will need** (one of listed below is enough):

- **Hitag2** programmer and blank **PCF7936** transponders
- Transponder programmer for extended configuration of transponder **T5** and transponders **T5** (**in most cases Zed Bull is not enough!**)

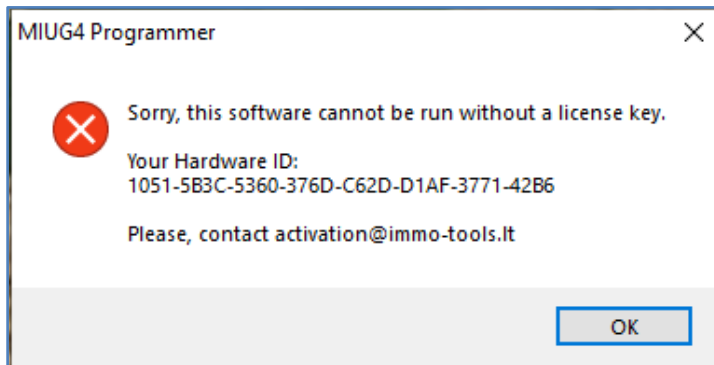
## 4. Memory access functions (all by CAN-BUS)

- ✓ **Read / Write EEPROM 95640**
- ✓ **Reset** control unit to VIRGIN
- ✓ **Read / Write** keys from/to EEPROM with **CRC** repair
- ✓ **Read ECU identifications**
- ✓ **Erase Diagnostic Trouble Codes (DTC)**

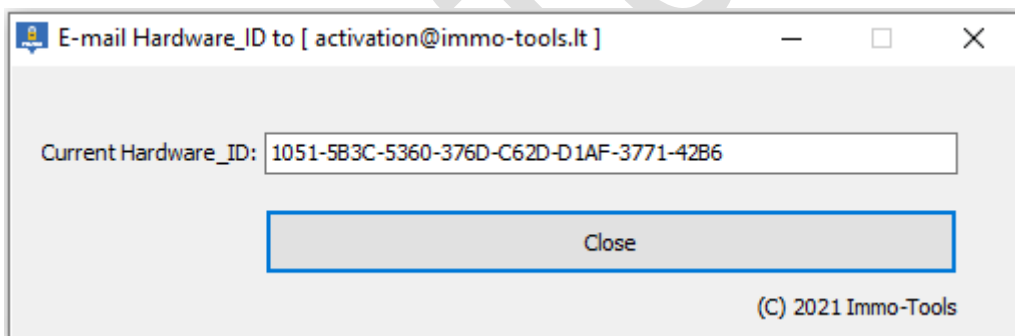
## 5. Software licensing

This software is a commercial product. Price of one license for one PC is **100.00 €**. To purchase a license please make a **100.00 € PayPal** payment to PayPal account [sales@immo-tools.it](mailto:sales@immo-tools.it)

Launch an application **MIUG4\_PRG.exe**:



For more convenience you can run application **Get\_HW\_ID.exe** that allow Copy-Paste of extracted Hardware ID:



E-mail **Hardware ID** along with **PayPal Transaction ID** to [activation@immo-tools.it](mailto:activation@immo-tools.it)

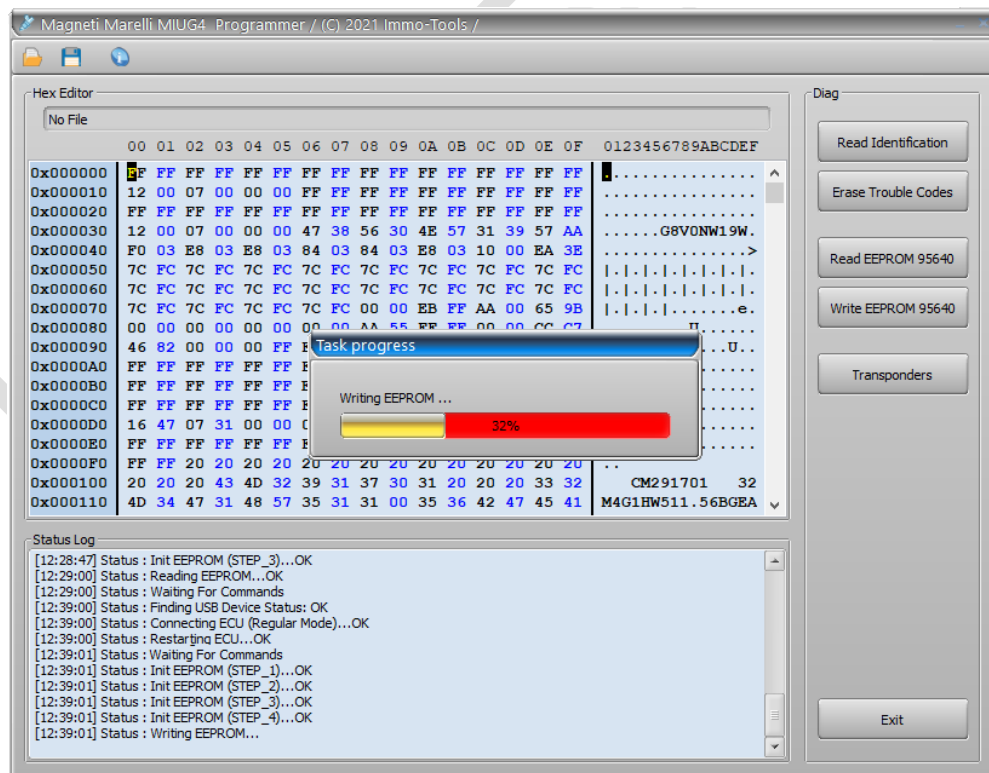
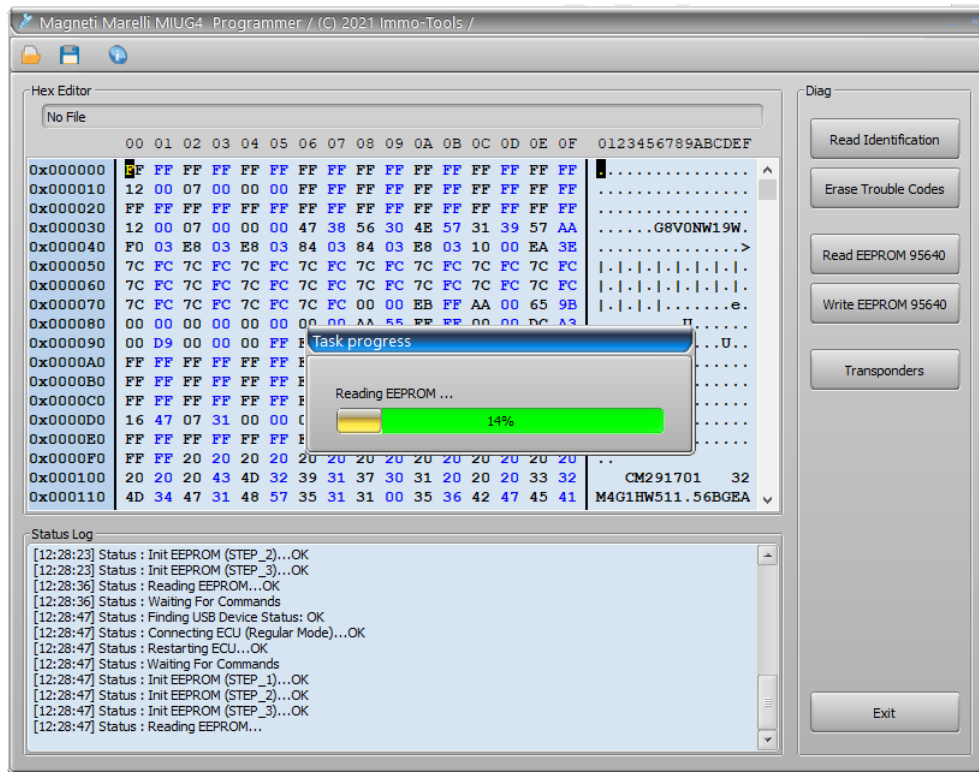
### **NOTE:**

**Hardware ID** is static. This means that application can be closed or PC can be turned off while waiting for an email with **license file**. Same **Hardware ID** will be displayed on every application startup on this particular computer.

License file **regkey.dat** will be sent to your email after receiving of clear payment.

Place **regkey.dat** in the same folder as **MIUG4\_PRG.exe** is. It is recommended to make a copy of this file to any different place. **Software can not run without regkey.dat** being next to **MIUG4\_PRG.exe**

## 6. Software screenshots





Magneti Marelli MIUG4 Programmer / (C) 2021 Immo-Tools /

Hex Editor

No File

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF	
0x000180	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	47	38	56	.....G8V
0x000190	30	4E	57	31	39	57	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	0NW19W.....	
0x0001A0	7B	CD	00	00	00	00	00	00	00	00	80	96	98	00	00	00	{.....	
0x0001B0	00	00	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	...#4F]...#4F]	
0x0001C0	BA	C1	12	23	34	46	7F	D0	BA	C1	12	23	34	46	7F	D2	.....X....4...	
0x0001D0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....[G..	
0x0001E0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....n..6.....	
0x0001F0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....9L:.....	
0x000200	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	CB	5C	.....m.I.	
0x000210	00	00	EB	FF	C2	00	00	00	00	00	00	00	00	00	00	00	.....	
0x000220	00	00	00	00	00	00	00	00	02	F2	03	5B	47	94	05	00	.....	
0x000230	AB	86	00	00	00	00	8C	00	8C	00	FF	FF	FF	FF	00	00	.....	
0x000240	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....	
0x000250	00	00	6E	00	12	36	15	00	00	00	01	00	00	00	00	00	.....	
0x000260	00	00	00	02	F2	03	19	39	4C	03	3A	85	00	00	00	00	.....	
0x000270	A0	00	A0	00	FF	FF	FF	FF	00	00	00	00	00	00	00	00	.....	
0x000280	00	00	00	00	00	00	00	00	00	00	00	6D	00	49	08	00	.....	
0x000290	13	00	00	00	01	00	00	00	00	00	00	00	00	02	F2	03	.....	

Calculate CRC

Diag

Read Identification

Erase Trouble Codes

Read EEPROM 95640

Write EEPROM 95640

Transponders

Exit

Status Log

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[12:50:03] -----
[12:50:03] Drawing number: [ CM291701 ]
[12:50:03] HW number: [ 32M4G1HW511 ]
[12:50:03] HW Version: [ 00 ]
[12:50:03] Calibration: [ 56BGEEAZ ]
[12:50:03] SW Version: [ 0000 ]
[12:50:03] Homologation No.: [ F01 ]
[12:50:03] ISO Code: [ D00C000A3B ]
[12:50:03] Prog. Date: [ 2020/09/09 ]
[12:50:03] NIP Code: [ G8V0NW19W ]
[12:50:03] -----
[12:50:03] Status : Waiting For Commands

```