

# Magneti Marelli

## IMM003 / IMM006

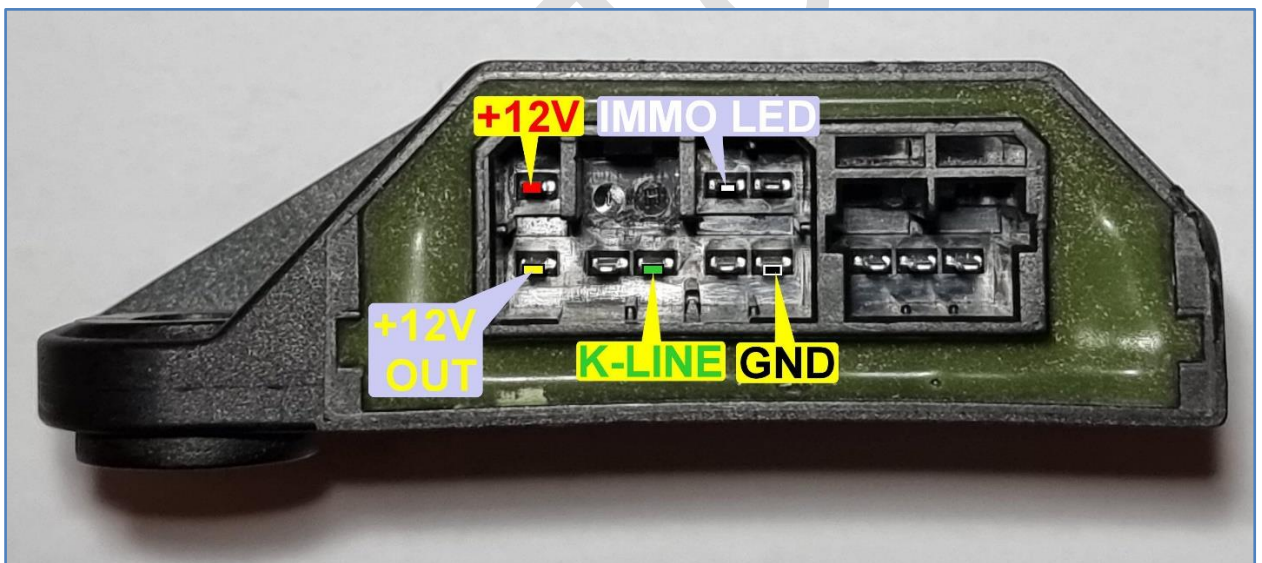
For ASW-NEXT

Short User Manual



January 2022

## 1. How to connect?



**NOTE:** IMM003/006 is only one of components in complete immobilizer system and cannot be checked on-the-bench alone for transponder validity without injection/ignition control module connected together with it.

## 2. What's next?

- According to pinout in the picture connect ASW-NEXT cables to IMM00X unit
- Run PC software
- Connect USB cable from interface of ASW-NEXT to PC
- Apply +12V power to crocodile clips of ASW-NEXT

Software features:

- ✓ Read **EEPROM** (full)
- ✓ Write **EEPROM** (partial)
- ✓ Read / Set **keys** to **EEPROM** by K-Line
- ✓ Read / Set **keys** to loaded **EEPROM** dump
- ✓ Reset control unit to **VIRGIN** state

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00000000	00	02	FF	00	00	01	0E	2E	51	00	00	01	0E	3E	86	FF	...	Q	>	..												
00000010	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
00000020	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
00000030	FF	FF	FF	00	00	01	0E	2E	51	00	00	01	0E	3E	86	FF	.....	Q	>	..												
00000040	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
00000050	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
00000060	FF	FF	FF	5C	00	02	FF	00	00	01	0E	2E	51	00	00	01	...	\	.....	Q	..											
00000070	0E	3E	86	FF	FF	FF	FF	FF	FF	5C	FF	FF	FF	FF	FF	FF	>	.....	\	.....												
00000080	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
00000090	FF	AA	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D

**NOTE:** EEPROM area 0003-0062 (yellow area in the picture above) is write-protected in the diagnostic mode. For this reason, only 64 bytes out of 160 (white area) can be reprogrammed by K-line. ASW-NEXT uses special technique that makes possible to transfer most important EEPROM data from one **IMM003/006** to another. In other words, you can't make byte-to-byte clone, but you can transfer:

For **IMM003** – only MASTER KEY,

For **IMM006** – MASTER KEY, SERVICE KEY#1 and SERVICE KEY#2.

Remaining keys can be later added in the scooter during manual PIAGGIO key learning procedure using MASTER KEY.