

Magneti Marelli MIU1 / 2 / 4

For ASW-NEXT

Short User Manual



December 2021

Note:

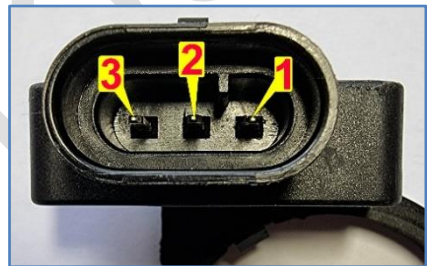
Data for key making can be read from ECU without intervention to it. Therefore, full Flash reprogramming (for cloning or software modification purposes) needs ECU to be opened to set it to the BOOT mode.

Immo-Tools.it

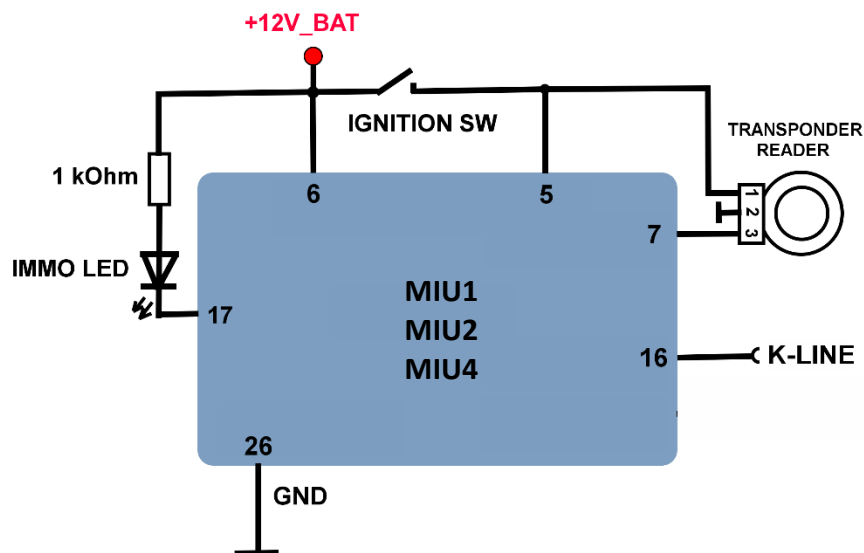
1. How to connect?



Antenna on the ignition lock



Transponder Reader (Antenna) pinout

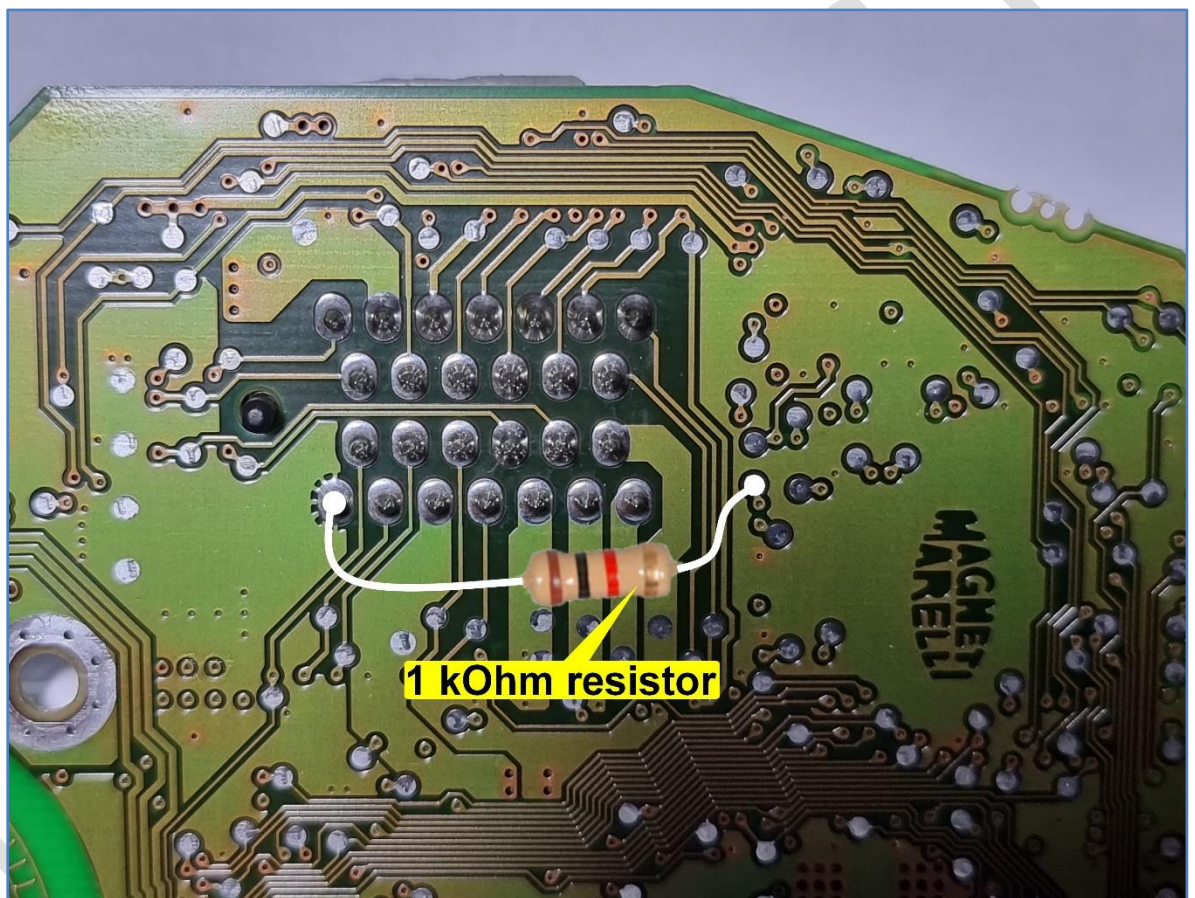


NOTE: Transponder reader (antenna) must be mounted on the ignition lock when testing on-the-bench or in the scooter. Transponder may not be read correctly without ignition lock being inside the antenna. IMMO LED will blink fault code 2 (KEY NOT DETECTED).

2. BOOT Mode

Values of transponder keys can be read in regular diagnostic mode without intervention to ECU, but for full Flash reprogramming of ST10F269, for reset-to-VIRGIN or to write transponder values directly to Flash, MIU1/2/4 must be set to BOOT mode. To do this you must open throttle ECU to gain access to PCB. Unscrew 3x T15 screws and tear throttle apart.

IMPORTANT: Connector is glued inside the throttle body. Repeatedly pull with some force bottom part, same time pushing connector down. Without pushing down the connector you may break PCB!



- Run PC software
- Connect USB cable from interface of ASW-NEXT to PC
- Apply +12V power to crocodile clips of ASW-NEXT
- Turn on power supply at same time to both, pin 5 and 6 of MIU1/2/4

From this point **ECU is waiting unlimited time** for commands from software of ASW-NEXT. Press <Set BOOT Mode> to activate Flash access functions.

Full Flash image (256 / 320 kB) of MCU ST10F269 can be read and reprogrammed.