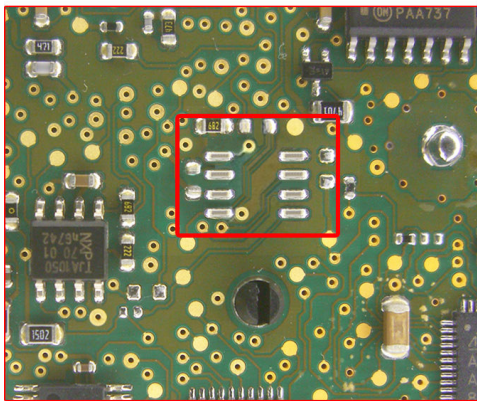


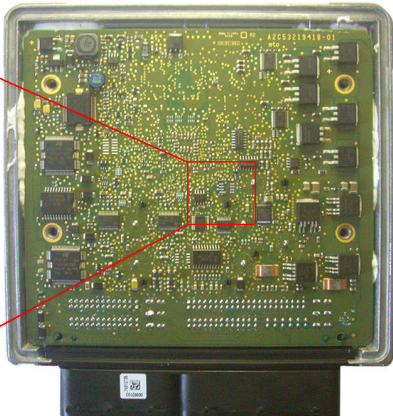
Prima di tutto occorre verificare quale versione hardware si ha in mano.

La versione 2 si riconosce dalla mancanza del componente NXP evidenziato in figura:



First of all you need to check which hardware version is in your hand.

Version 2 is recognized by the absence of the NXP component shown in the figure:



Se fosse presente il componente seguire istruzioni MSD80 Vers. 1.

If the component is present, follow the instructions MSD80 Vers. 1.

Kit da utilizzare:

- Cavo multifunzione
- 2 resistenze da 1000 Ω
- Cavo OBD (se ricercata la password su auto)

Kit to use:

- Multifunction cable
- 2 resistances of 1000 Ω
- OBD Cable (if password is searched on car)

RICERCA DELLA PASSWORD

Per trovare la password collegarsi tramite obd alla vettura.

Utilizzare il seguente driver:

- TOOLS BOOT MODE
- INFINEON TRICORE Tool Password
- **OBD PASSWORD MSV80/MSV90 BMW**
- Cliccare “Find Password” e seguire i messaggi del software.

STEP 1



PASSWORD SEARCH

To find the password, connect via OBD to the car.

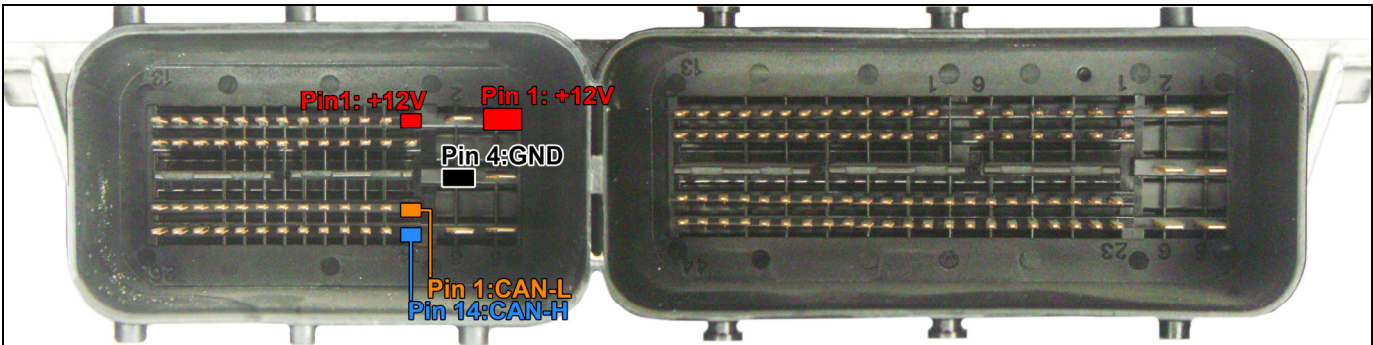
Use the driver:

- TOOLS BOOT MODE
- INFINEON TRICORE Tool Password
- **OBD PASSWORD MSV80MSV90 BMW**
- Click on “Find Password” and follow the software messages.

È possibile trovare la password anche a banco connettendo il seguente pinout.

The password can also be found on the desk by connecting the following pinout.

RED: + 12V	1, 1
BLACK: GROUND	4
BLUE: CAN-H	14
ORANGE: CAN-L	1



Ora che è stata trovata la password è possibile leggere e scrivere la centralina. Vedere fase seguente.



Now that the password has been found it's possible to read and write the control unit. See next step.

LETTURA E SCRITTURA ECU

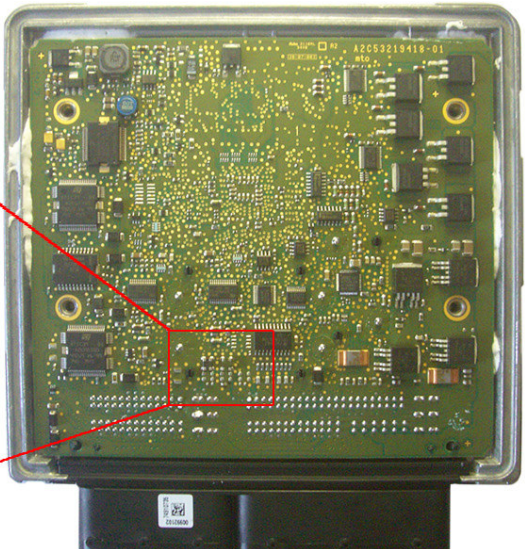
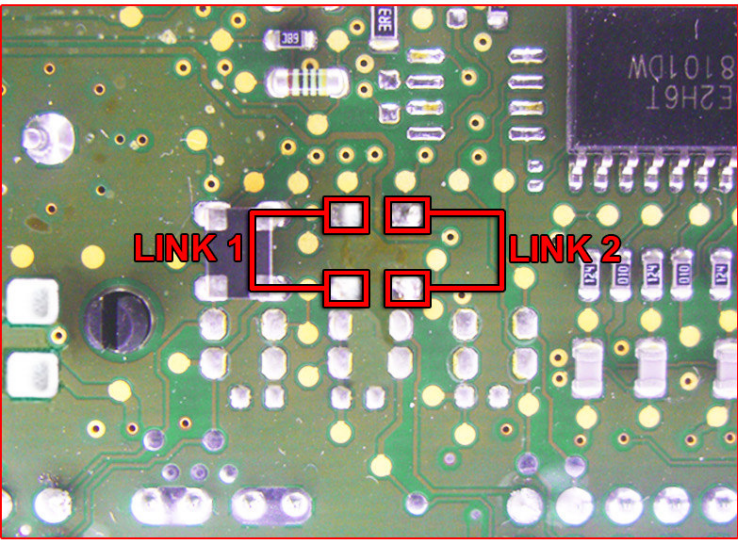
STEP 2

READ AND WRITE ECU



Effettuare due ponti come in figura:

Make two links as shown:

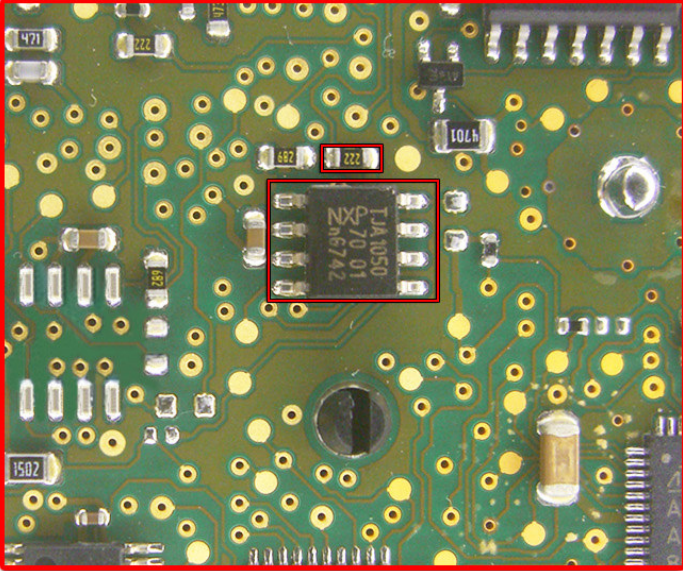
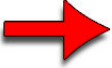
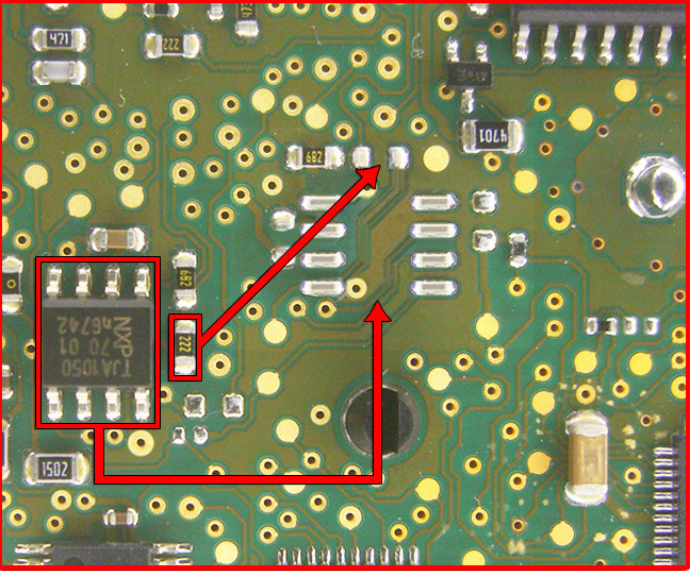


Spostare il componente e la resistenza come in figura:

Move the component and the resistance as shown in figure:

PRIMA / BEFORE

DOPO / AFTER



Con il cavo multifunzione collegare il seguente pinout e il boot indicato in foto sottostante.

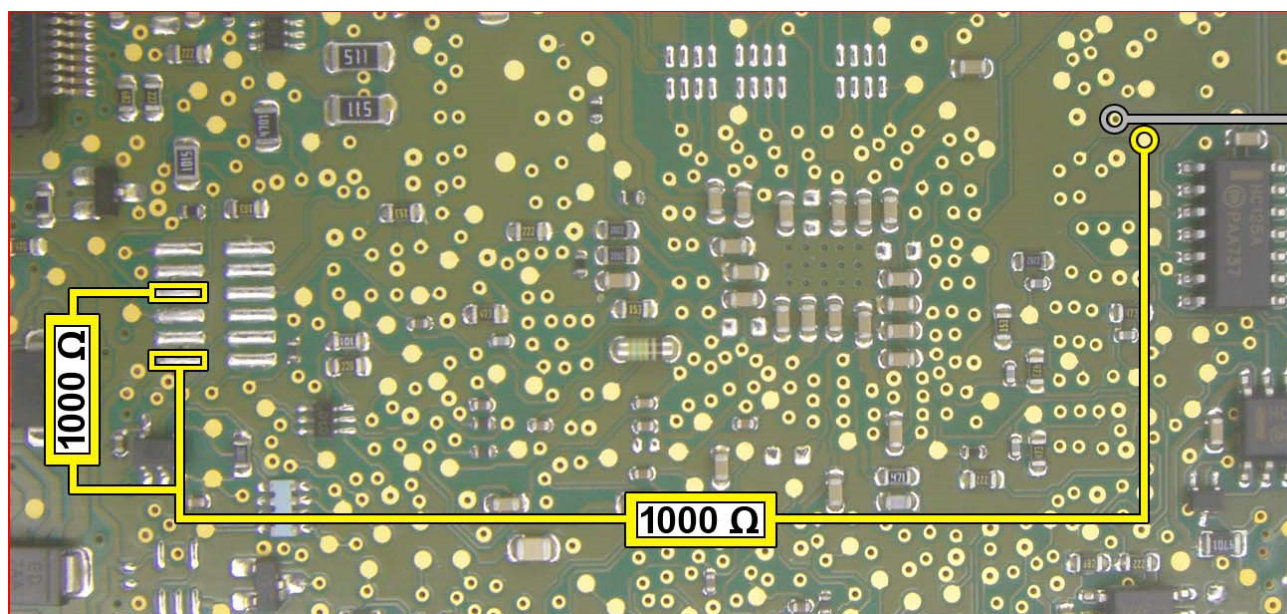
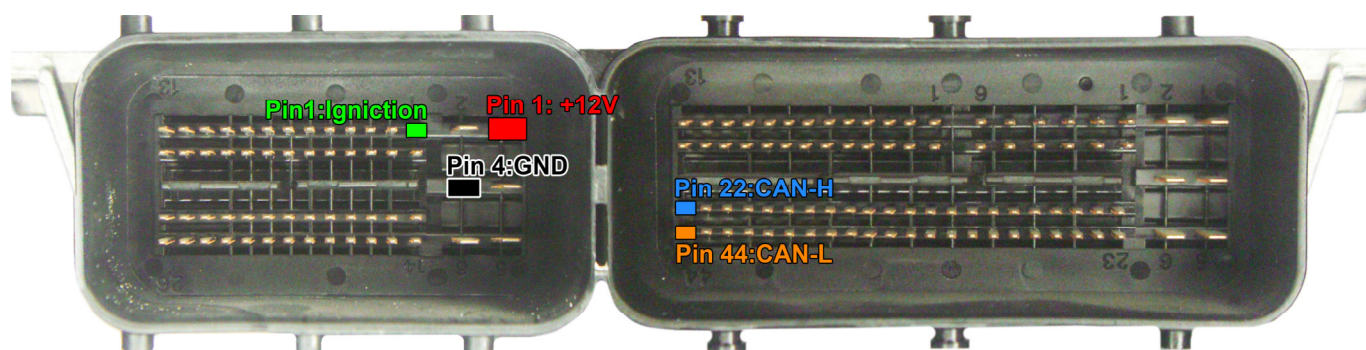
Utilizzare il seguente driver:
→ TOOLS BOOT MODE
→ INFINEON TRICORE Boot
→ SAK TC1796



Connect with the multifunction cable the following pinout and the boot shown below.

Use the driver:
→ TOOLS BOOT MODE
→ INFINEON TRICORE Boot
→ SAK TC1796

RED: + 12V	1
BLACK: GROUND	4
GREEN: IGNITION	1
BLUE: CAN-H	22
ORANGE: CAN-L	44
GREY: BOOT	On the pcb



Grey wire

Al termine del lavoro, prima di ricollegare la centralina sulla vettura, ripristinare i componenti spostati precedentemente e dissaldare i due ponti.

At the end of the work, before reconnecting the control unit on the car, restore the previously moved components and desolder the two links.