

Manuale
BOOT TRICORE



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Premessa – *Premise*

IMPORTANTE – *IMPORTANT*

Il collegamento tra l'interfaccia EOBD e le ECU è molto semplice, tuttavia noi consigliamo di seguire attentamente questo manuale perché ogni piccolo errore può danneggiare la centralina.

The connection between the EOBD interface and the ECU is very simple, but we recommend to follow this manual attentively because each small error could damage the ECU.

Come prima cosa è indispensabile installare nel vostro computer il software, seguendo le istruzioni, presente nel CD di installazione.

As before thing is what is necessary install the software in your computer, following the instructions, present in the CD of installation.



Figura 1: Il led rosso è acceso
The red led is light

Attenzione:

Alimentare l'interfaccia utilizzando un alimentatore a 12V, indifferentemente dal tipo di centralina che si deve leggere. Il led rosso si accenderà.

Attention:

It's essential that the interface has fed using a feeder to 12V **always**, without note of from the type of ECU that must be read. The red led will light.



Connettere il cavo con connettore DB15 alla porta DB15 dell'interfaccia EOBD 2.
Figura 2.

*Connect the cable with connector DB15 to the DB15 door of EOBD 2 interface.
Figure 2*



Figura 2: Cavo DB15 connesso all'interfaccia
cable DB15 connect to the interface

Processore Tricore

Esistono diversi tipi di processori Tricore; è importante fare attenzione alla sigla scritta sopra al processore per capire di che tipo si tratta e per selezionare nel software il driver corretto.

Riportiamo qui sotto due esempi di processore Tricore:

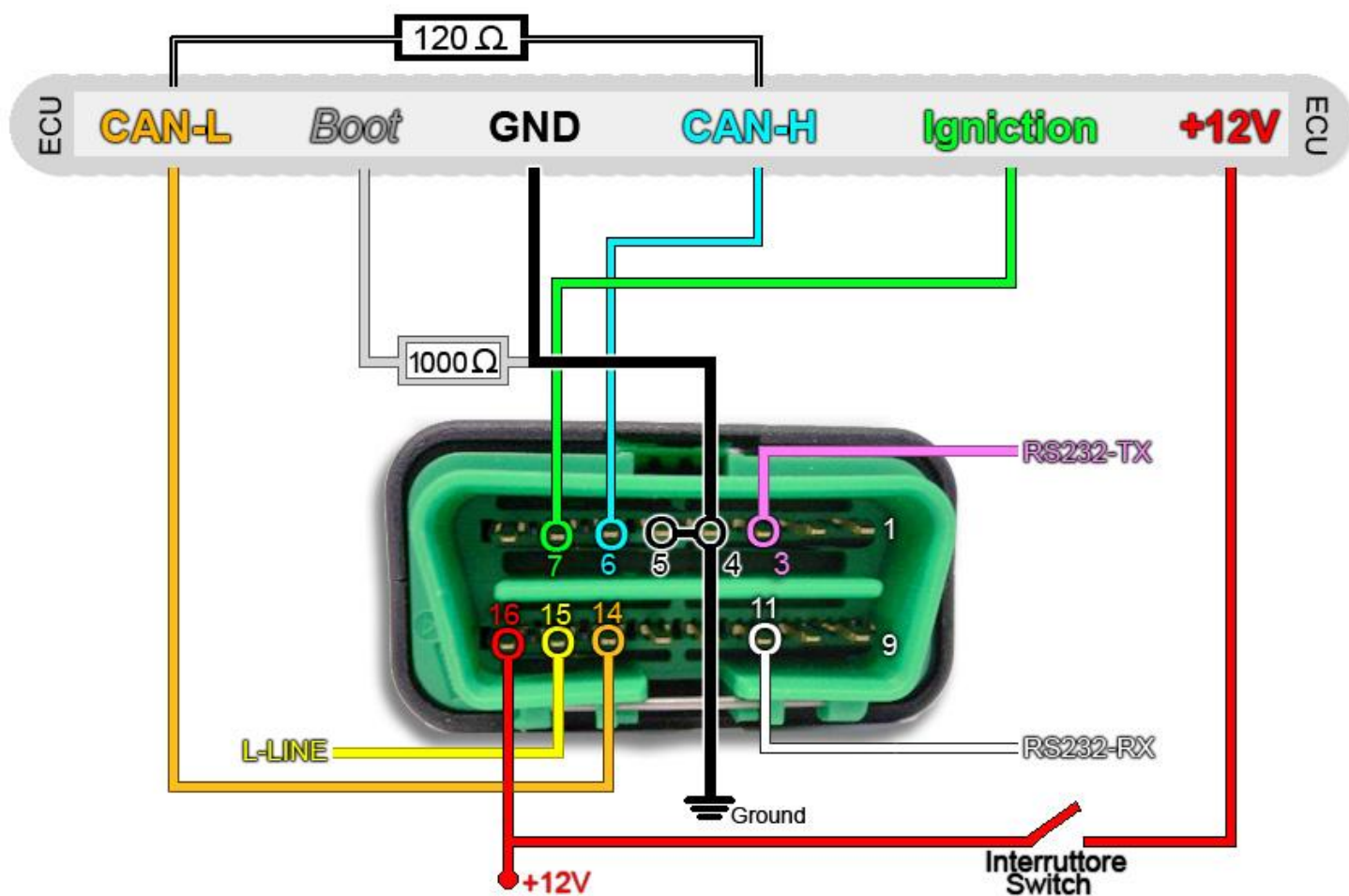


There are different Tricore processors, it is important to give attention at the signaling writing on the processor for select the correct driver in the software.

We bring again here above two examples of Tricore processor.

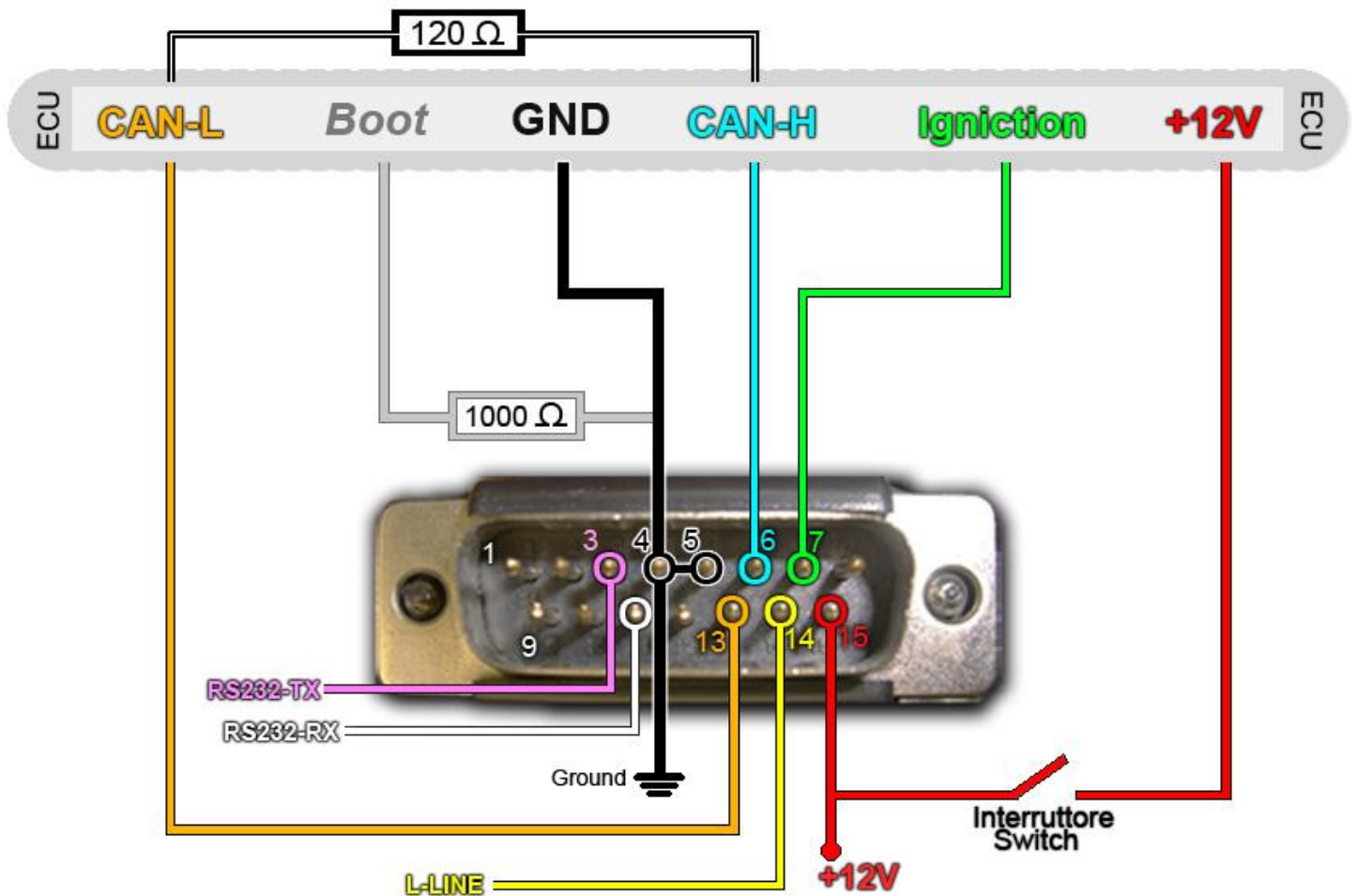
CAVO PER EDC E MED 17 CON CONNETTORE OBD

Figura 3: Spina OBD maschio / *The OBD connector male:*

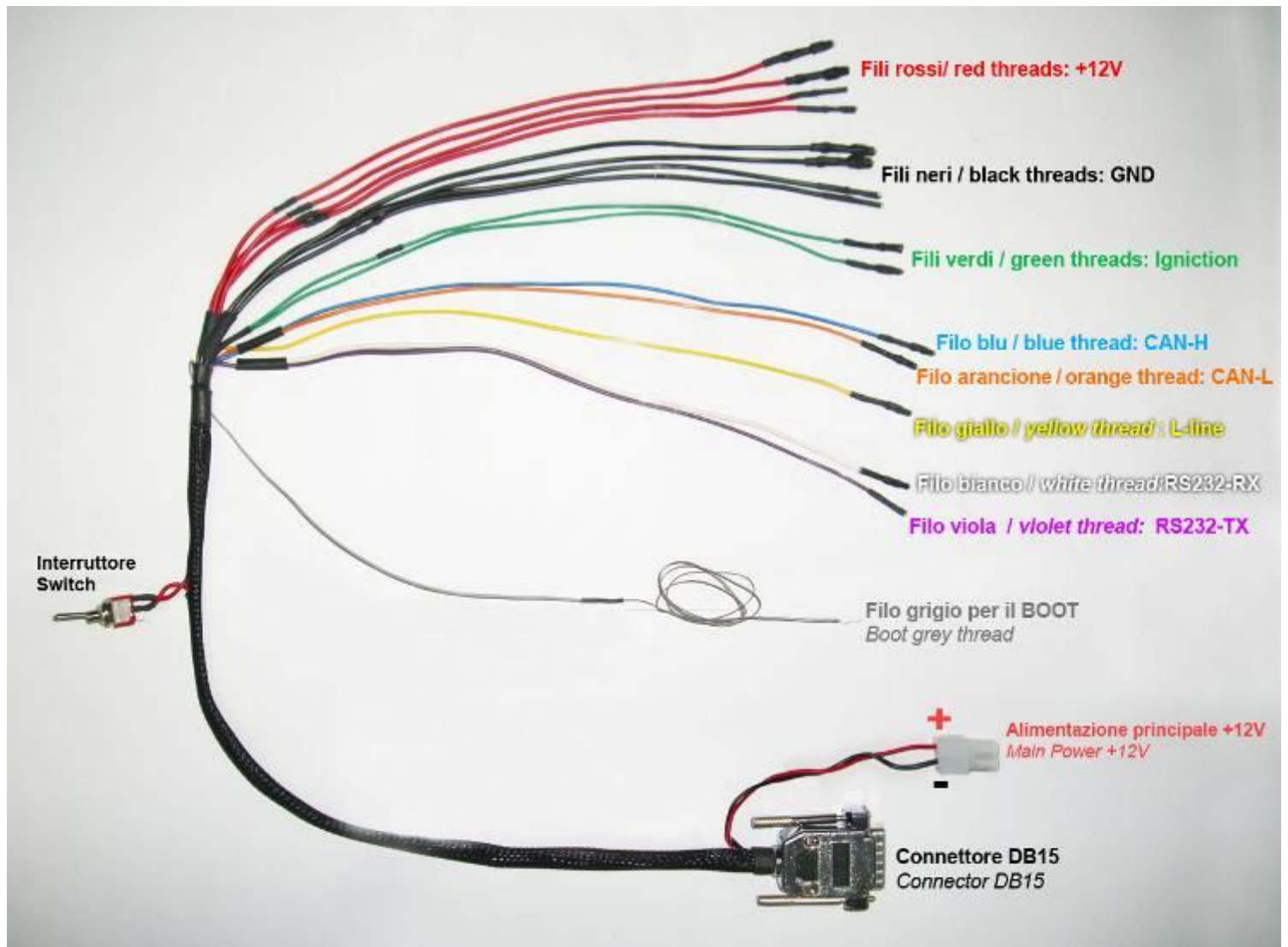


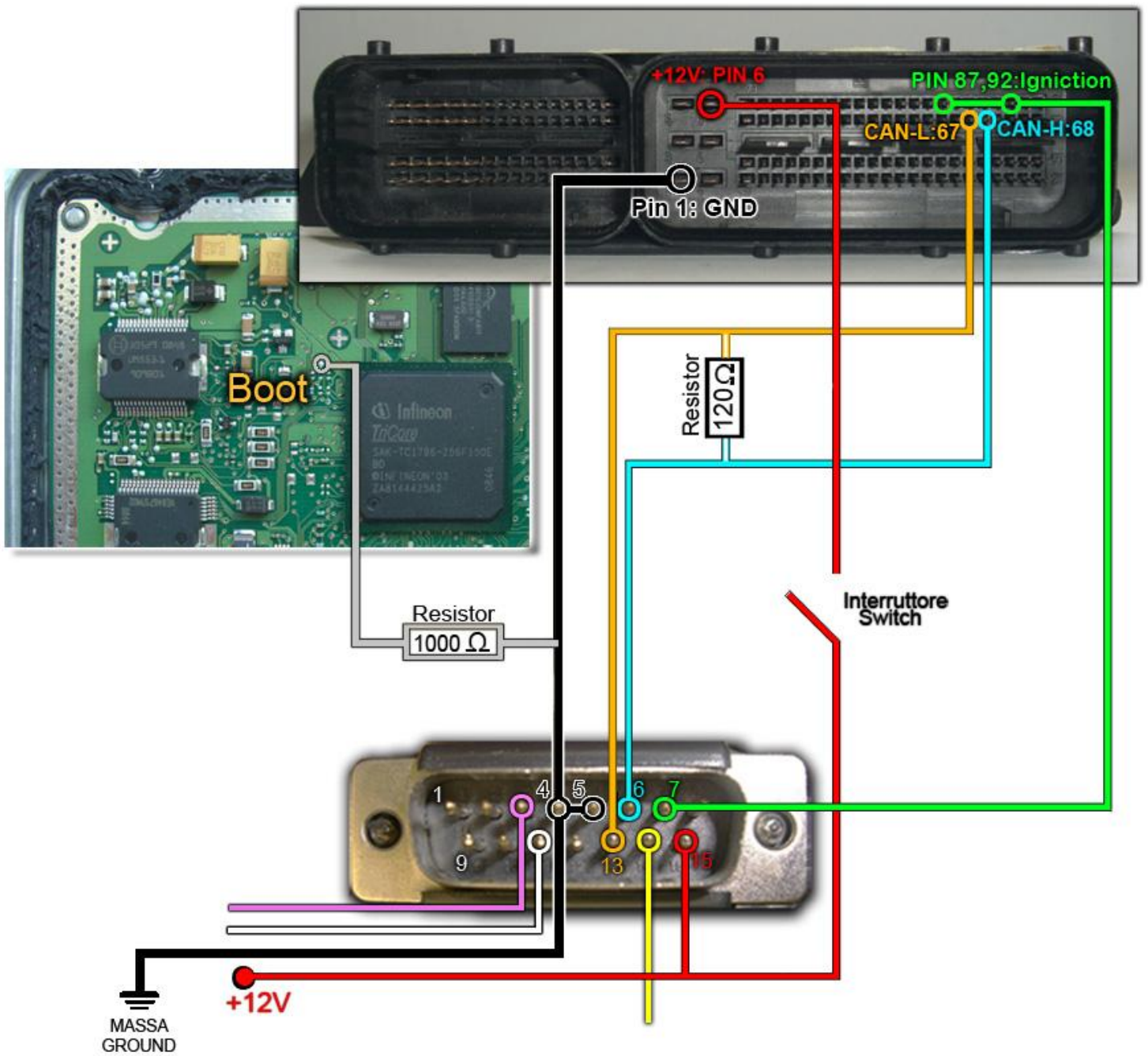
CAVO PER EDC E MED 17 CON CONNETTORE DB15 (fornito in dotazione)

Figura 4: Connettore DB15 / Connector DB15:

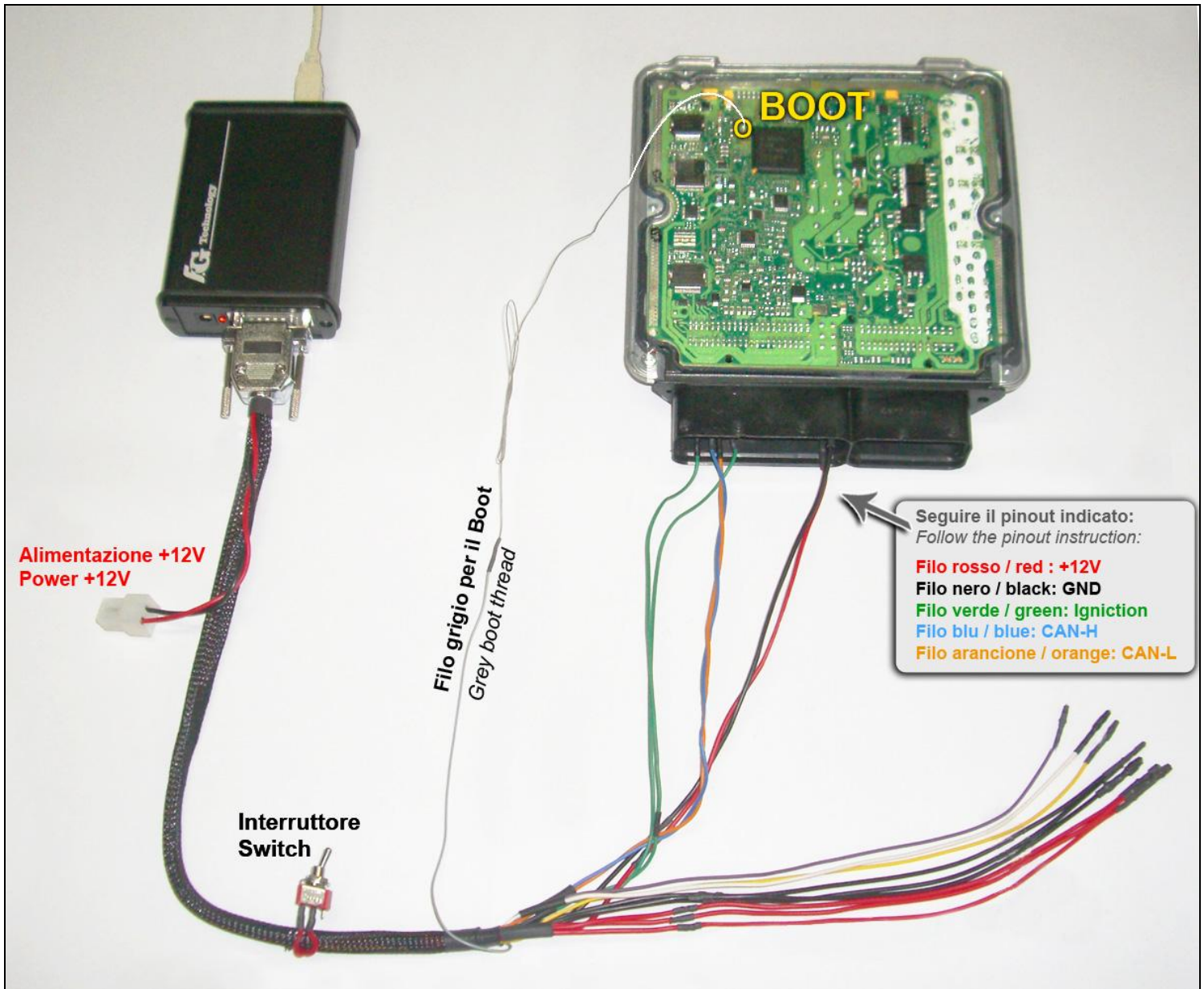


Attenzione: La resistenza da 1000 Ohm per il boot è già all'interno del filo grigio.
Attention: The resistance of 1000 Ohm for the boot is already inside the grey thread.





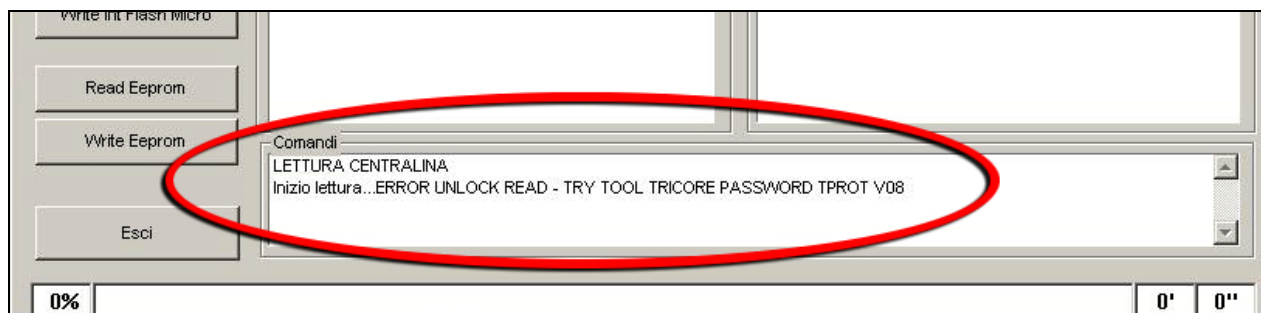
Attenzione: La resistenza da 1000 Ohm per il boot è già dentro al filo grigio.
 Attention: The resistance of 1000 Ohm for the boot is already inside the grey thread.



TOOL PASSWORD TRICORE

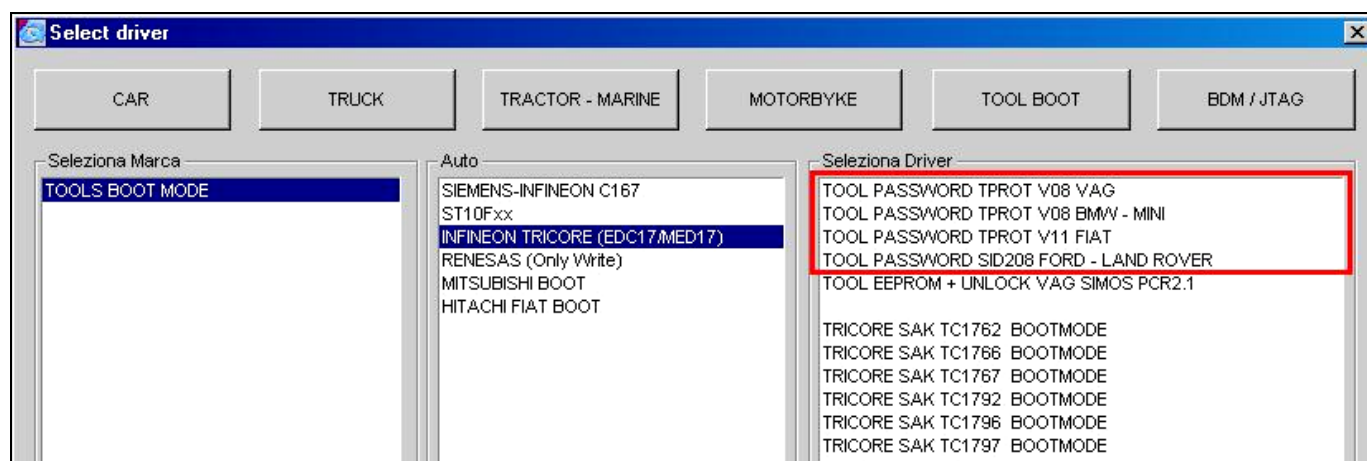
In fase di lettura di una centralina, nel caso in cui appaia il messaggio di errore “**ERROR UNLOCK READ**” seguente:

During the reading process of an ECU, if appear an error message “**ERROR UNLOCK READ**” following:



è necessario utilizzare i driver
TOOL PASSWORD:

you have tu use the driver
TOOL PASSWORD:



- 1- Spegner la centralina e nel pinout sostituire i fili verdi dell'ignition con i fili rossi 12V;
- 2- Disattivare la condizione di boot mode dissaldando il filo grigio di boot e/o le resistenze dalla scheda;
- 3- Accendere la centralina e lanciare il driver Tool Password corrispondente. (Nel caso non funzioni a banco, provare il driver Tool Password tramite OBD con la ECU montata sulla macchina);
- 4- Al termine della risposta del driver, spegnere la centralina, riconnettere nel pinout i fili verdi dell'ignition al posto dei fili rossi messi al punto 1;
- 5- Mettere in condizione di boot la centralina saldando nuovamente il filo grigio e/o le resistenze sulla scheda;
- 6- Accendere la centralina e lanciare il driver relativo al micro: TRICORE SAK TC17xx BOOTMODE.

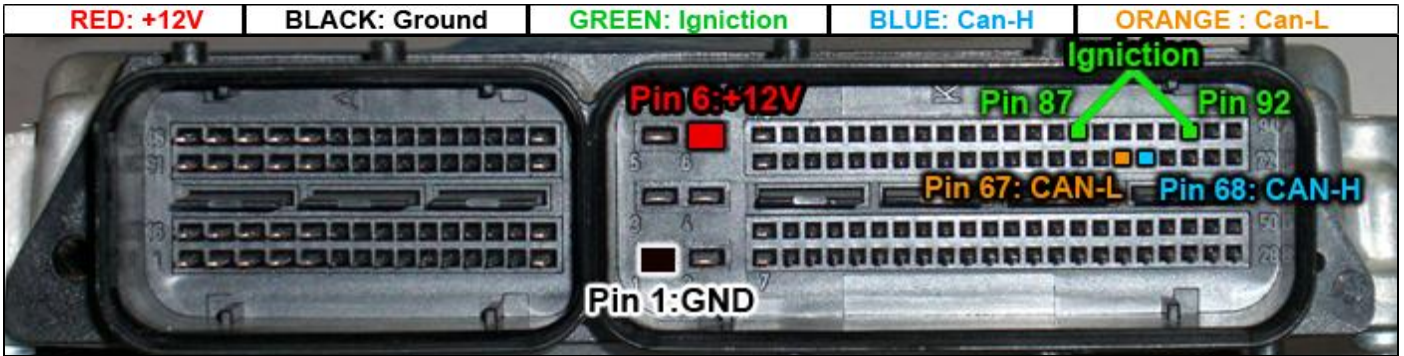
- 1- Switch off the ECU, and in the pinout replace the green threads of the ignition with the red threads 12V;
- 2- Disarm the boot mode desoldering the gray threads and/or the resistance on the electric card;
- 3- Switch on the ECU and use the driver Tool Password (If it doesn't functions at board, try the Tool Password through OBD with the ECU climbed on the car);
- 4- At the end of the answer of the driver, switch off the ECU, connect in the pinout the green threads of the ignition where there are the red threads positioned to the step 1;
- 5- Set in boot mode the ECU soldering the gray thread and/or the resistance on the electric card;
- 6- Switch on the ECU and use the driver about the micro: TRICORE SAK TC17xx BOOTMODE

N.B.: È consigliabile provare il driver Tool Password prima di smontare e aprire la centralina.

P.S. It is advisable try the driver Tool Password before raise and open the ECU.

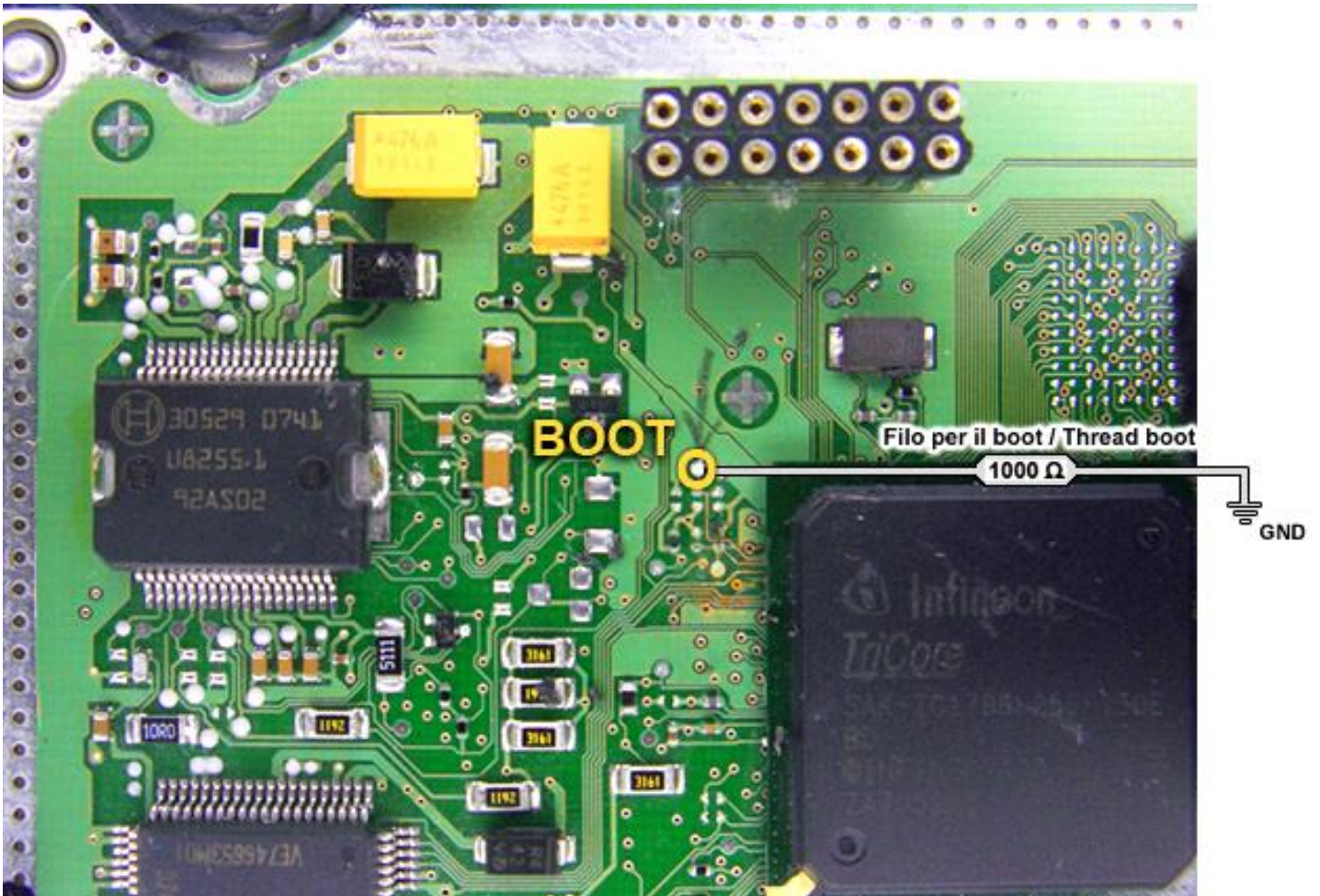


ECU Vag EDC17 CP14/CP20 - TC1796 Internal – External Flash



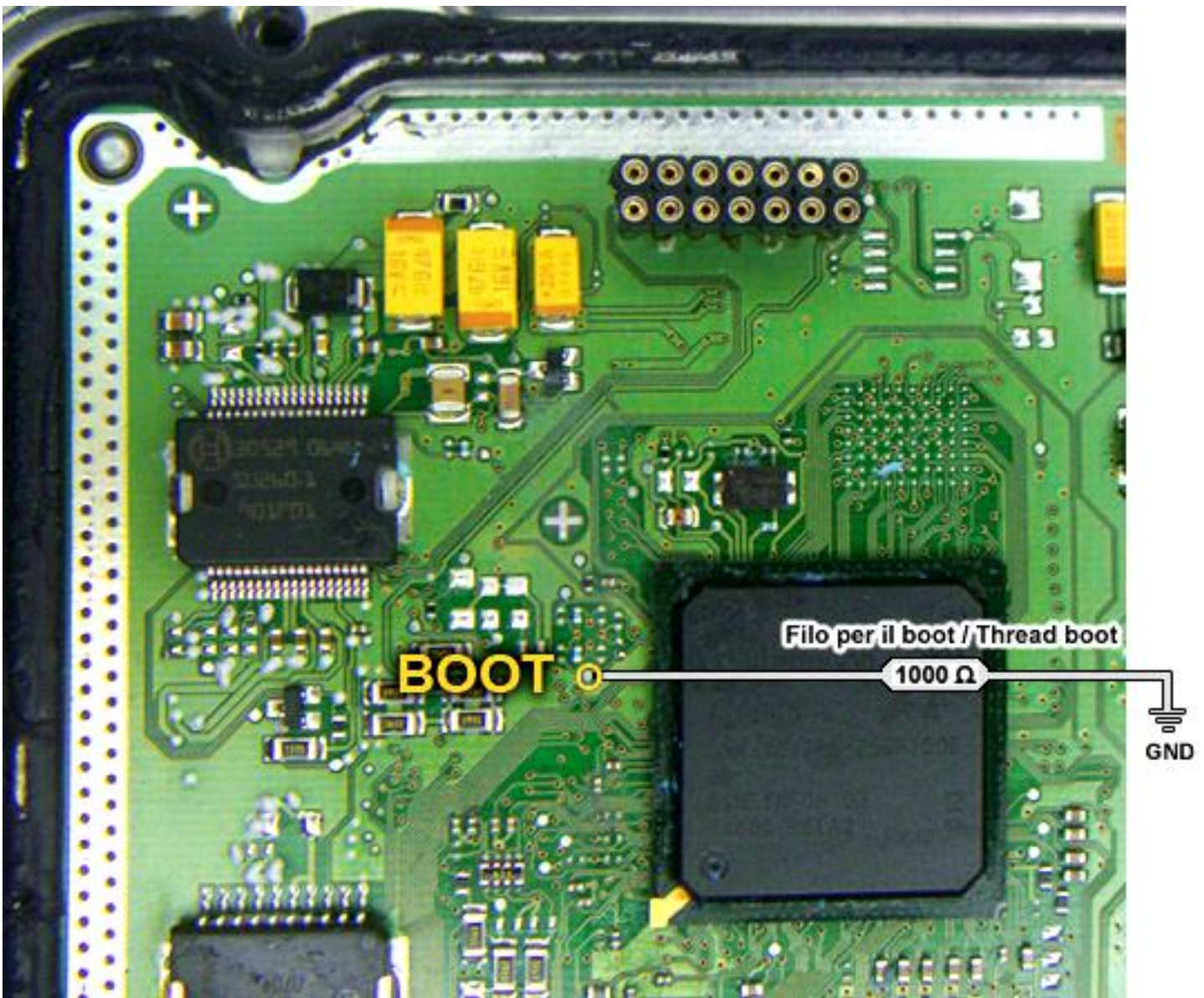
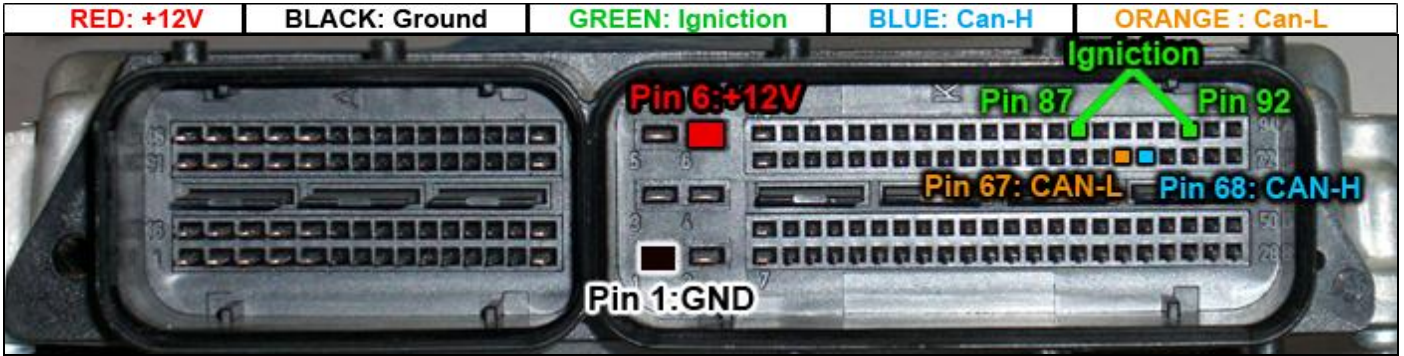


ECU Vag EDC17 CP14 - TC1796 Internal Flash





ECU Vag EDC17 CP04 - TC1796 Internal Flash



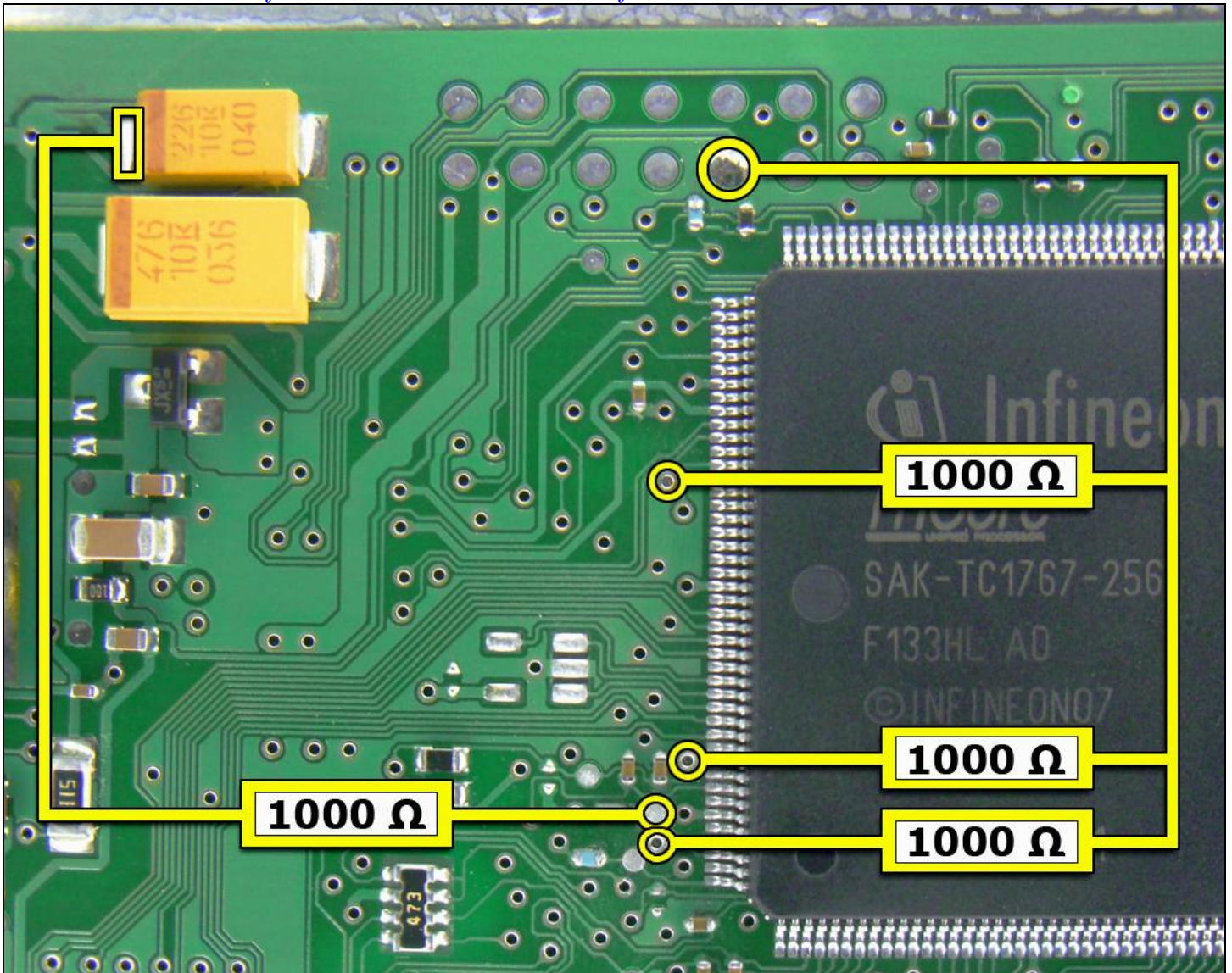


ECU Vag EDC17 C46 – TC1767 Internal Flash



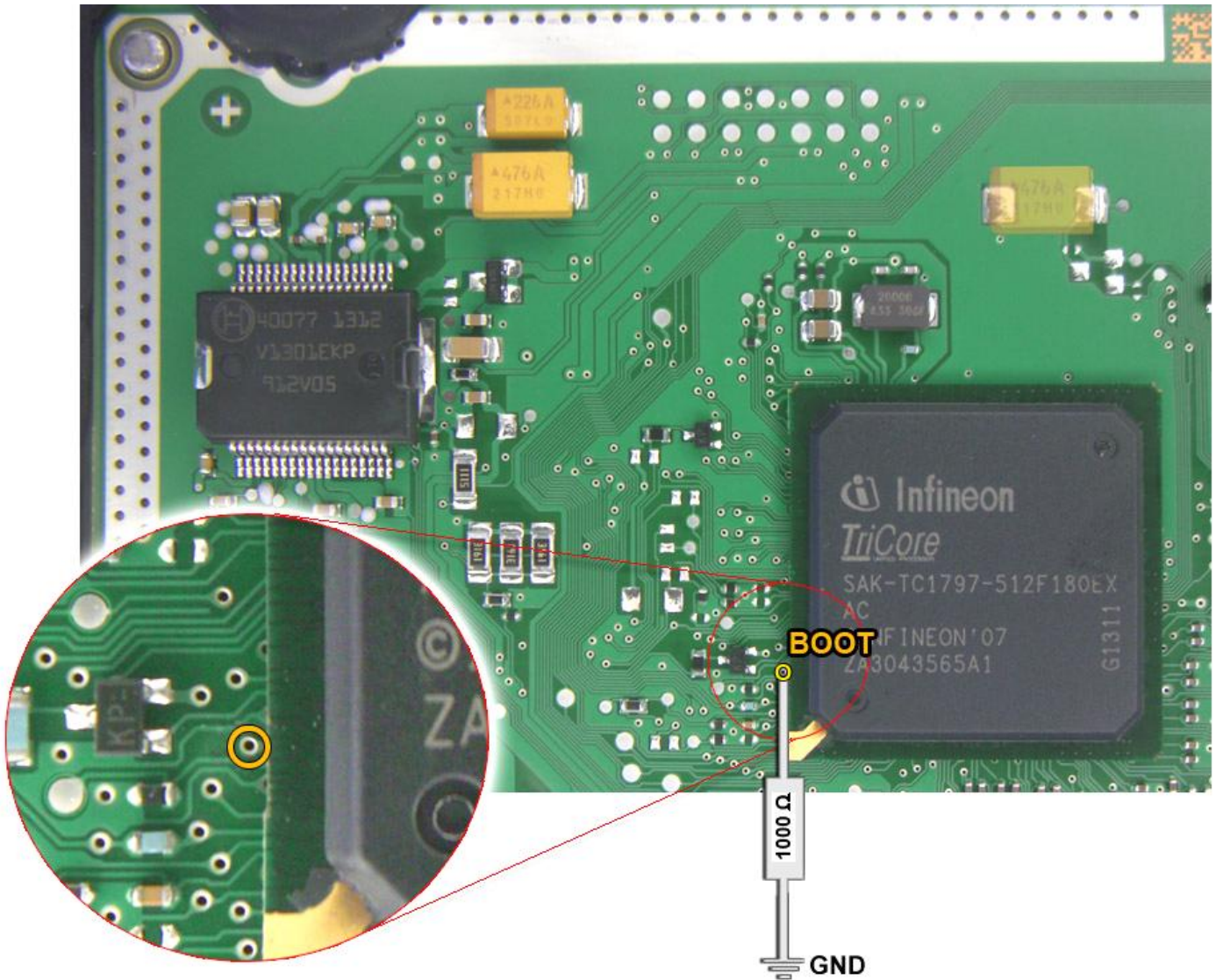
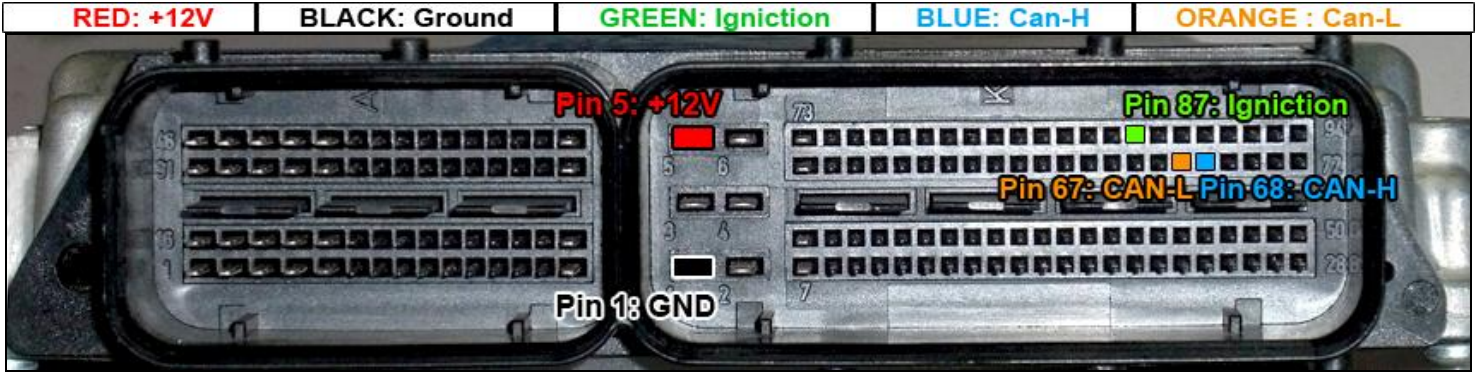
Questa centralina si mette in Boot Mode utilizzando 4 resistenze da 1000 Ohm:

This is the Boot Mode for this ECU used 4 resistance of 1000 Ohm:



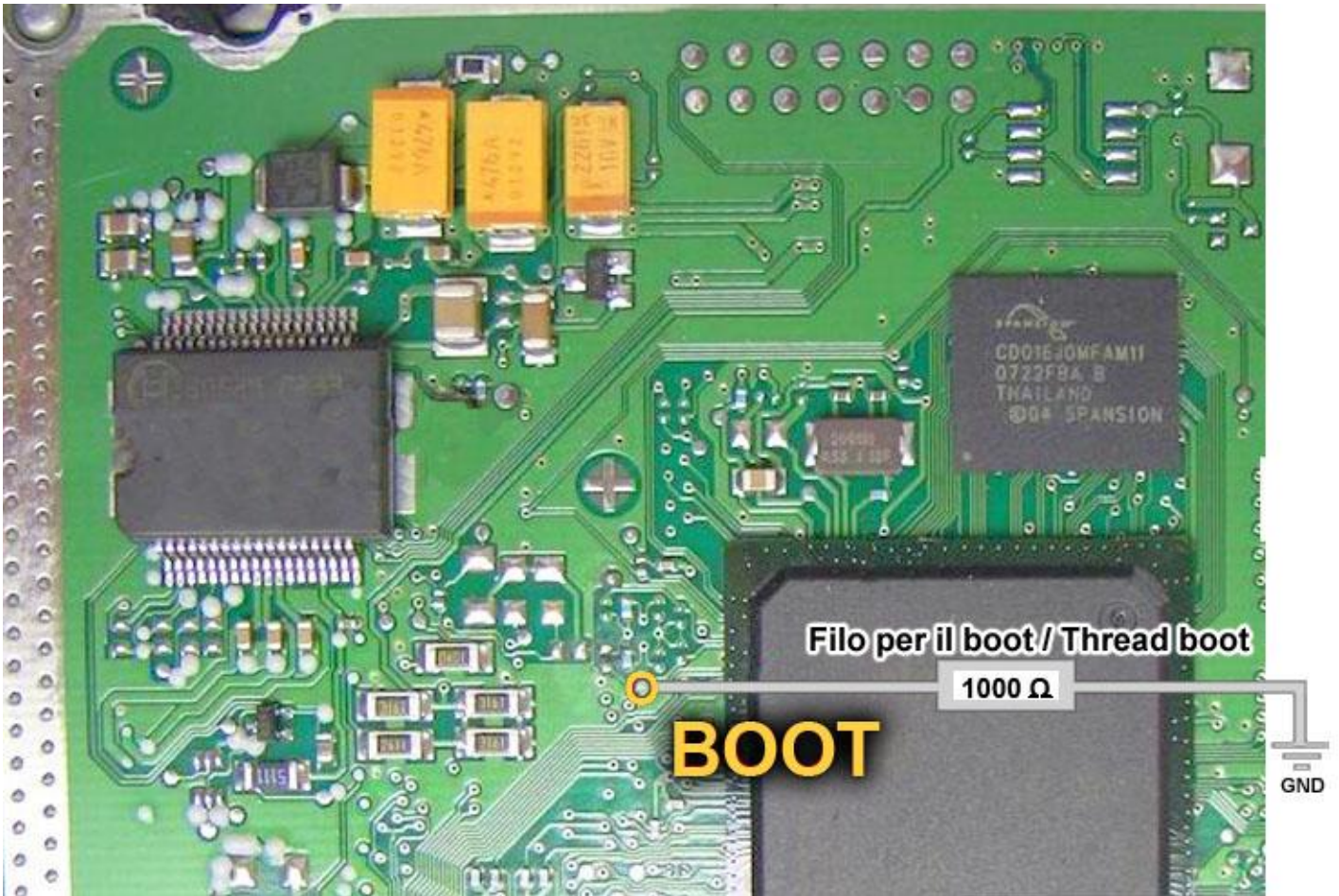


ECU Vag EDC17 C54-C64 – TC1797 Internal Flash *



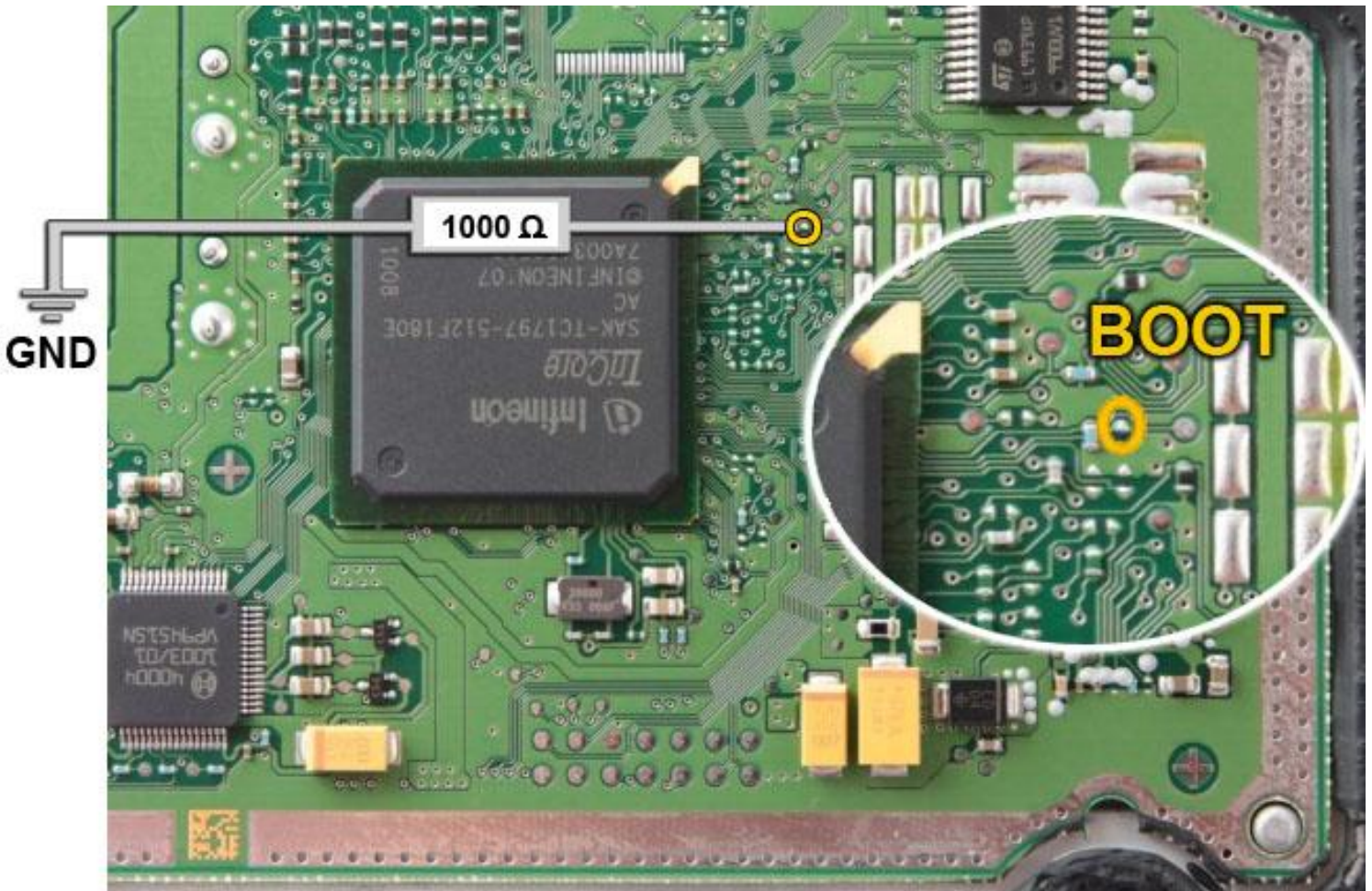
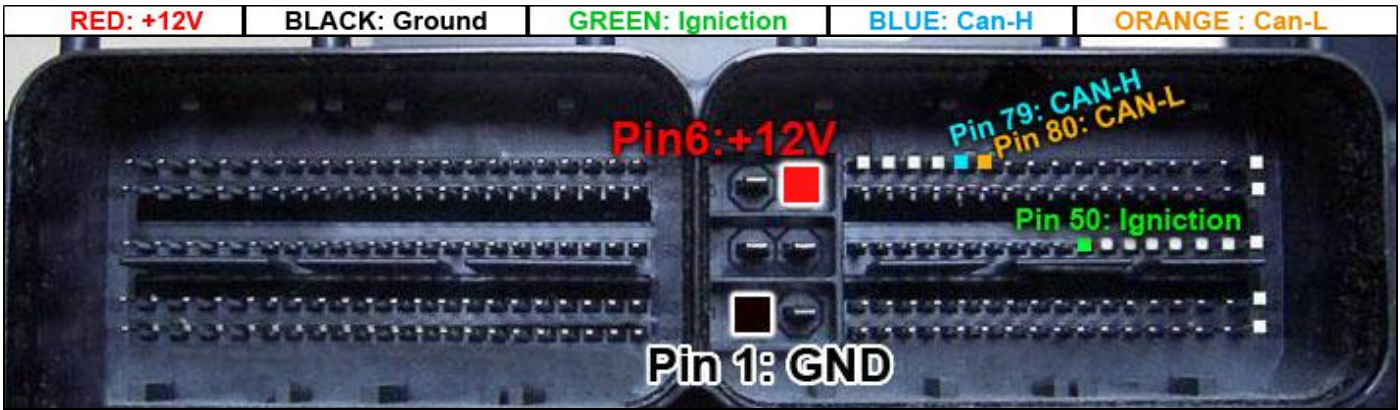


ECU Vag EDC17 CP24 – TC1796 Internal-External Flash



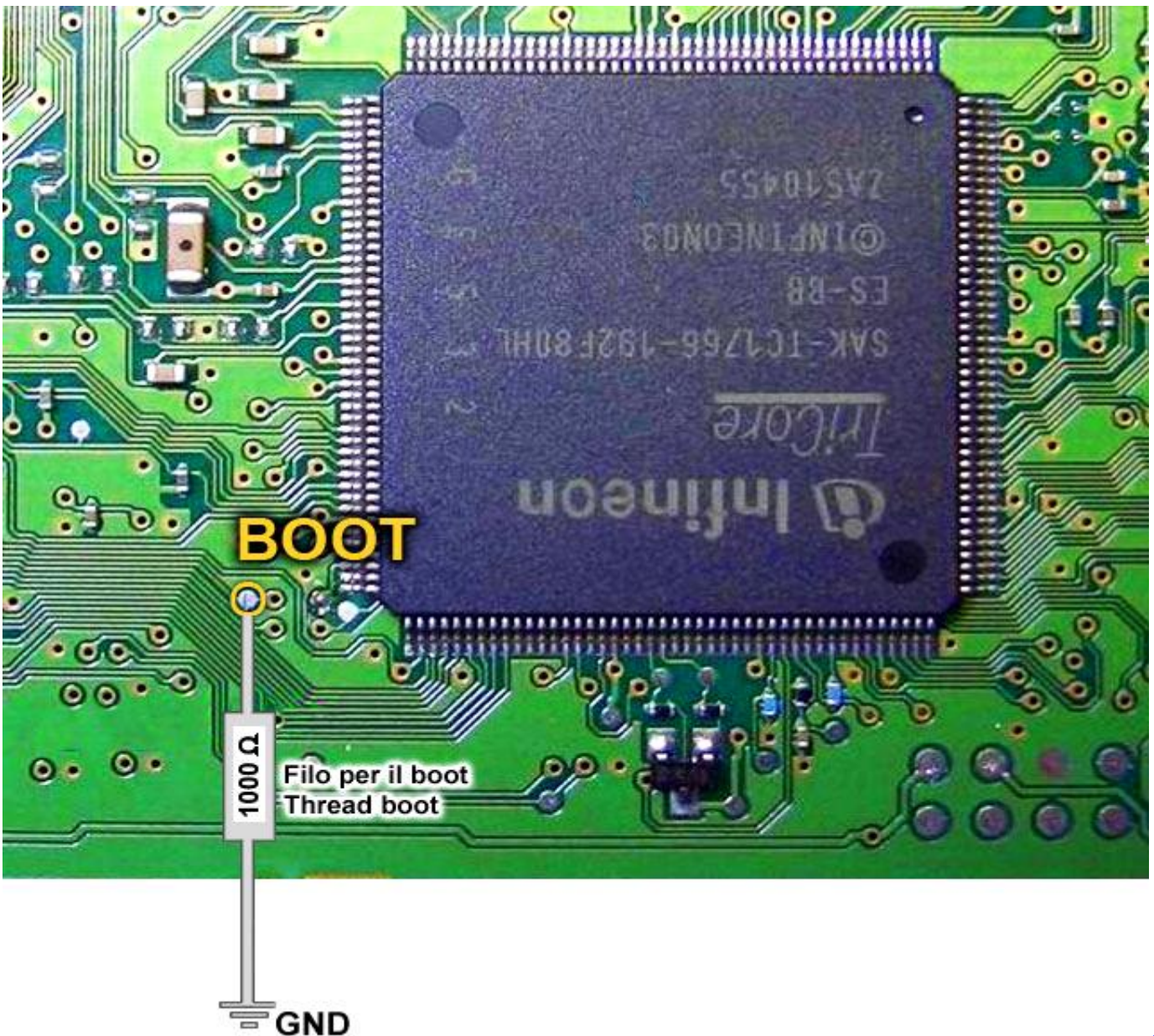


ECU EDC17 CP44 - TC1797 Internal Flash



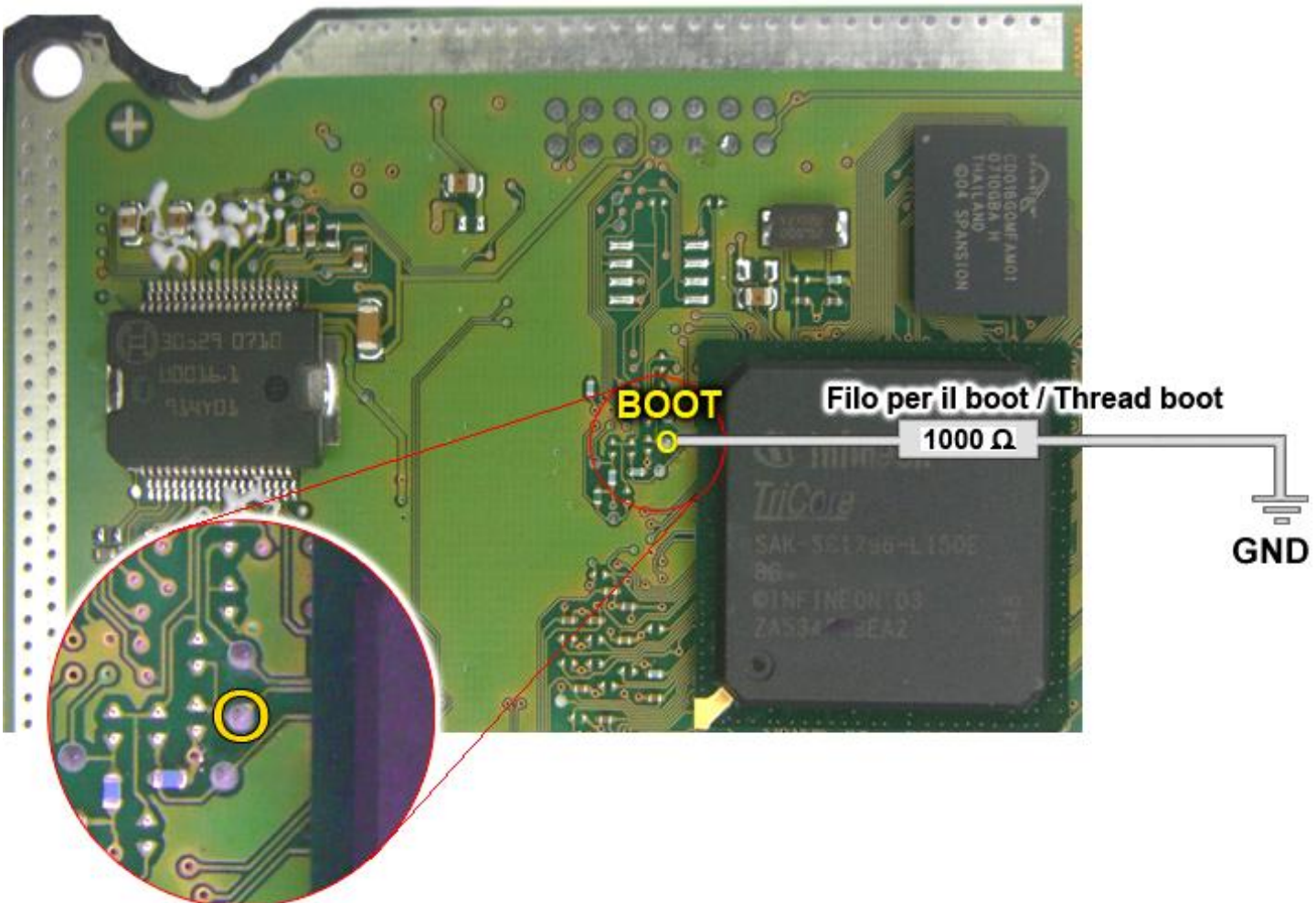


ECU Vag EDC17 U01 - TC1766 Internal Flash





ECU Vag EDC17 U05 – TC1796 External Flash



Attention: In this ECU you can read only External Flash.



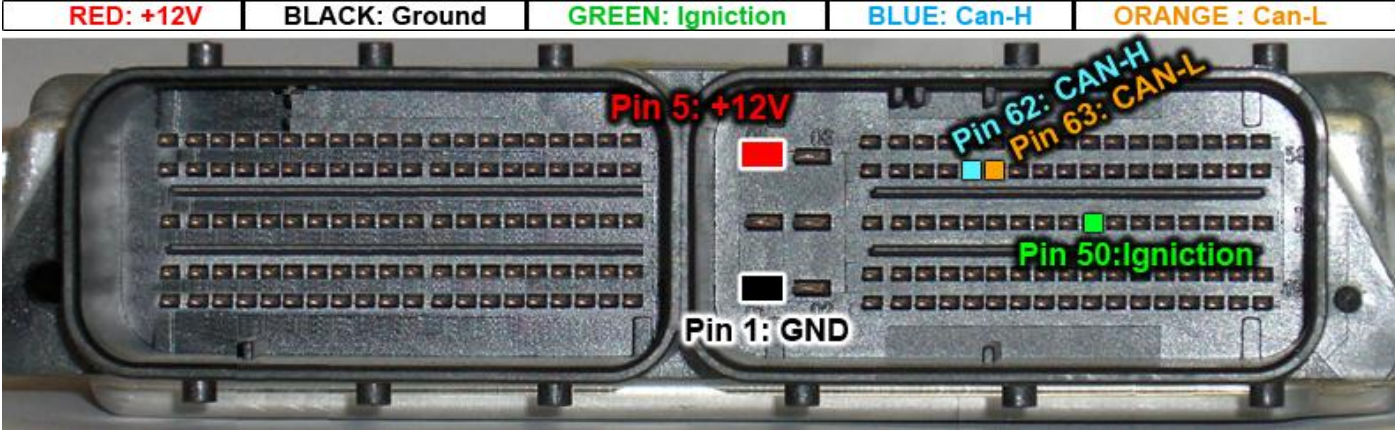


ECU Vag MED17.1 – TC1796 Internal Flash

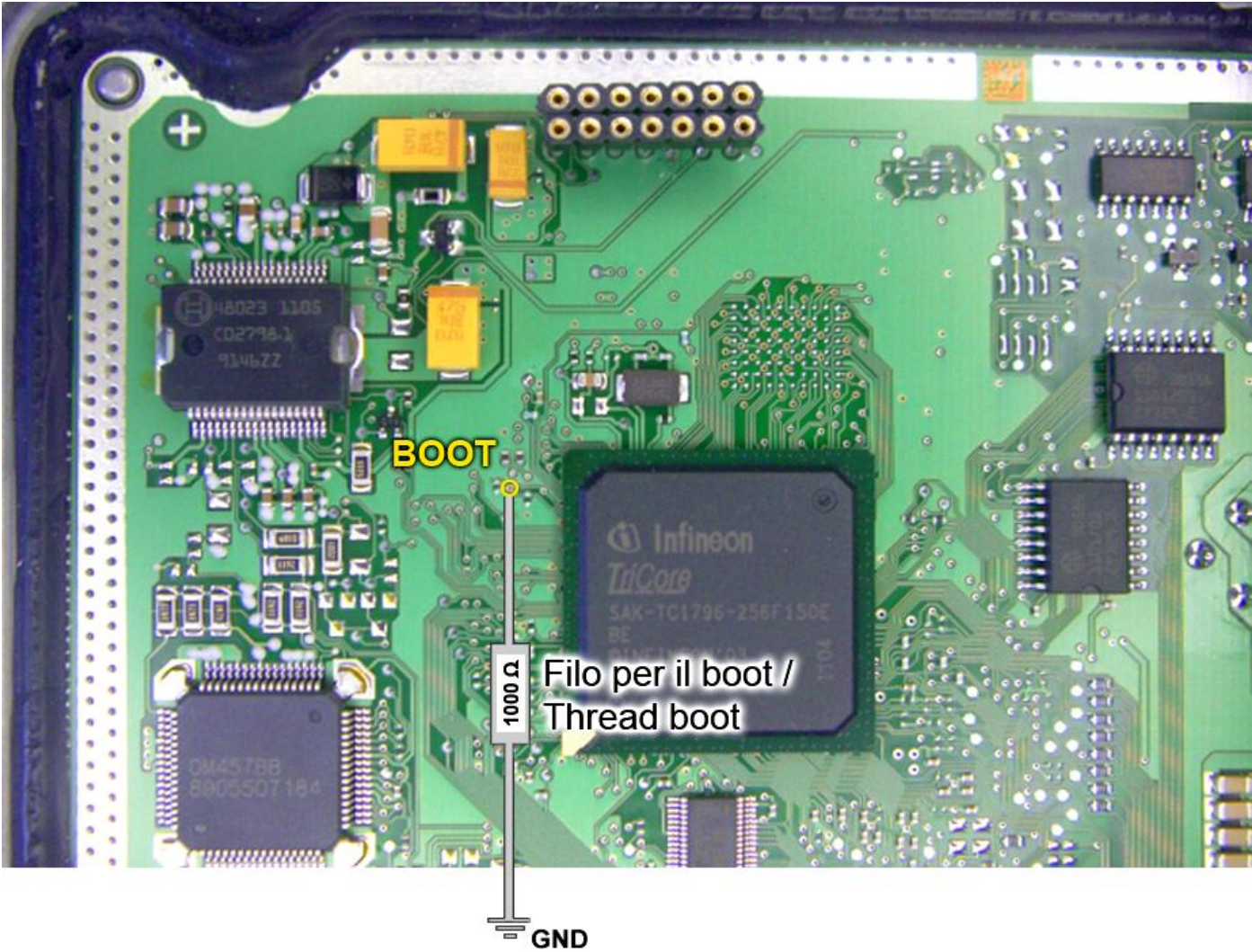




ECU Vag MED17.1.1 – TC1796 Internal Flash

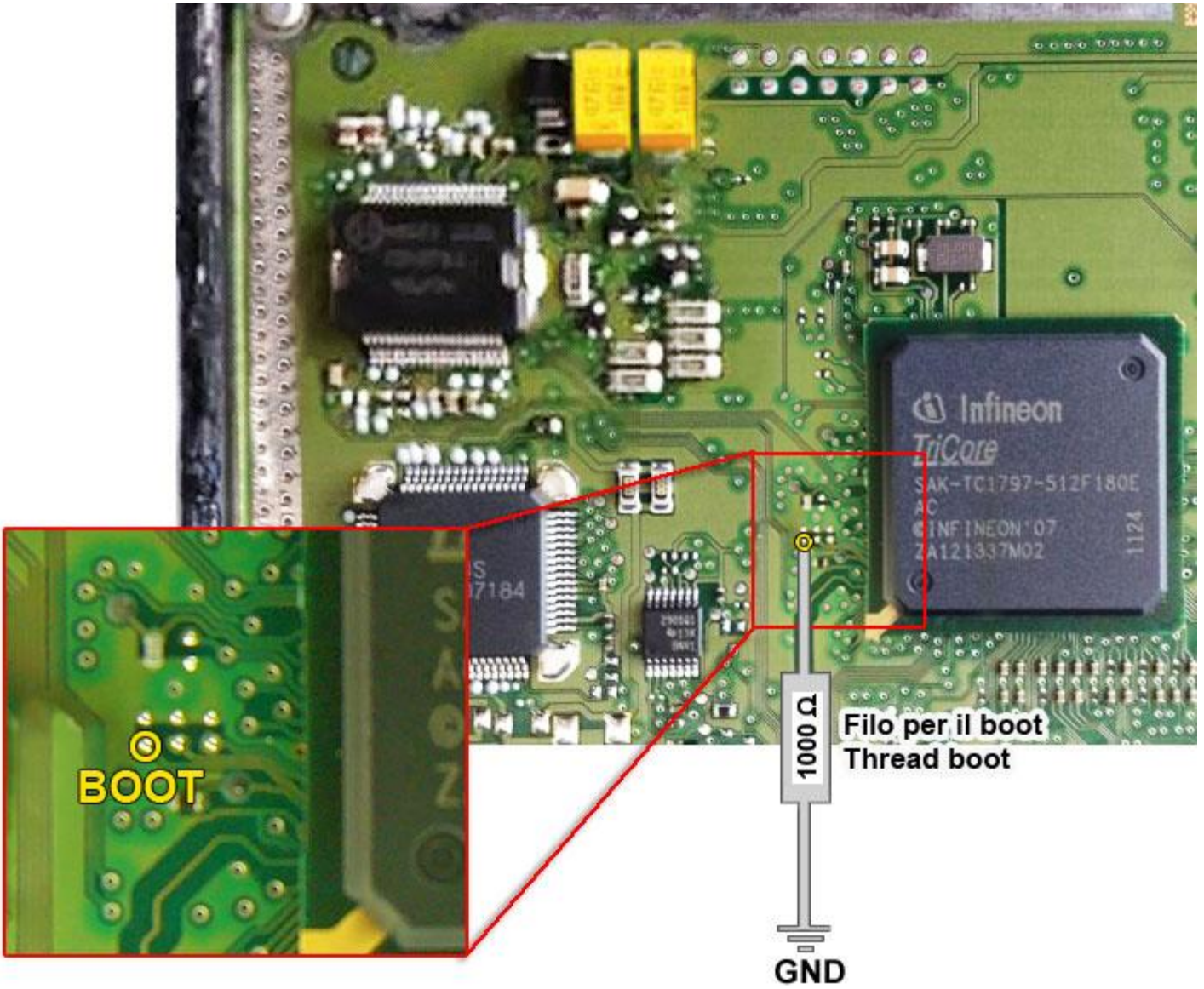


N.B. Su alcune ECU il CAN H può essere sul Pin 79, il CAN L sul Pin 80
In some ECU the CAN H can be the Pin 79 and the CAN L is the Pin 80





ECU Vag MED17.1.6 – TC1797 Internal Flash





ECU Vag MED17.5 – TC1766 Internal Flash





ECU Vag MED 17.5.1 – TC1796 Internal-External Flash

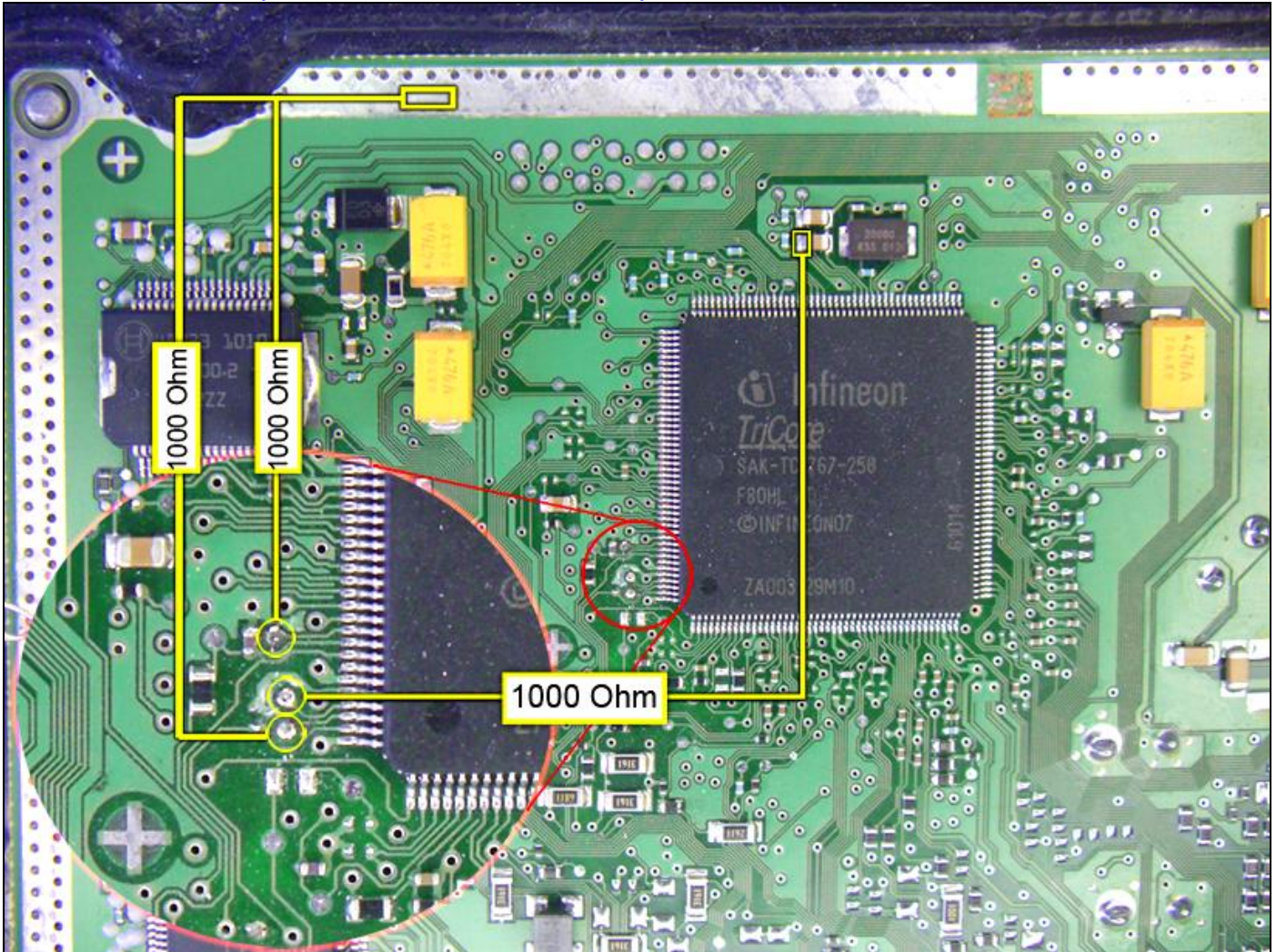




ECU Vag MED 17.5.2 – TC1767 Internal Flash



Questa centralina si mette in Boot Mode utilizzando 3 resistenze da 1000 Ohm:
This is the Boot Mode for this ECU used 3 resistance of 1000 Ohm:



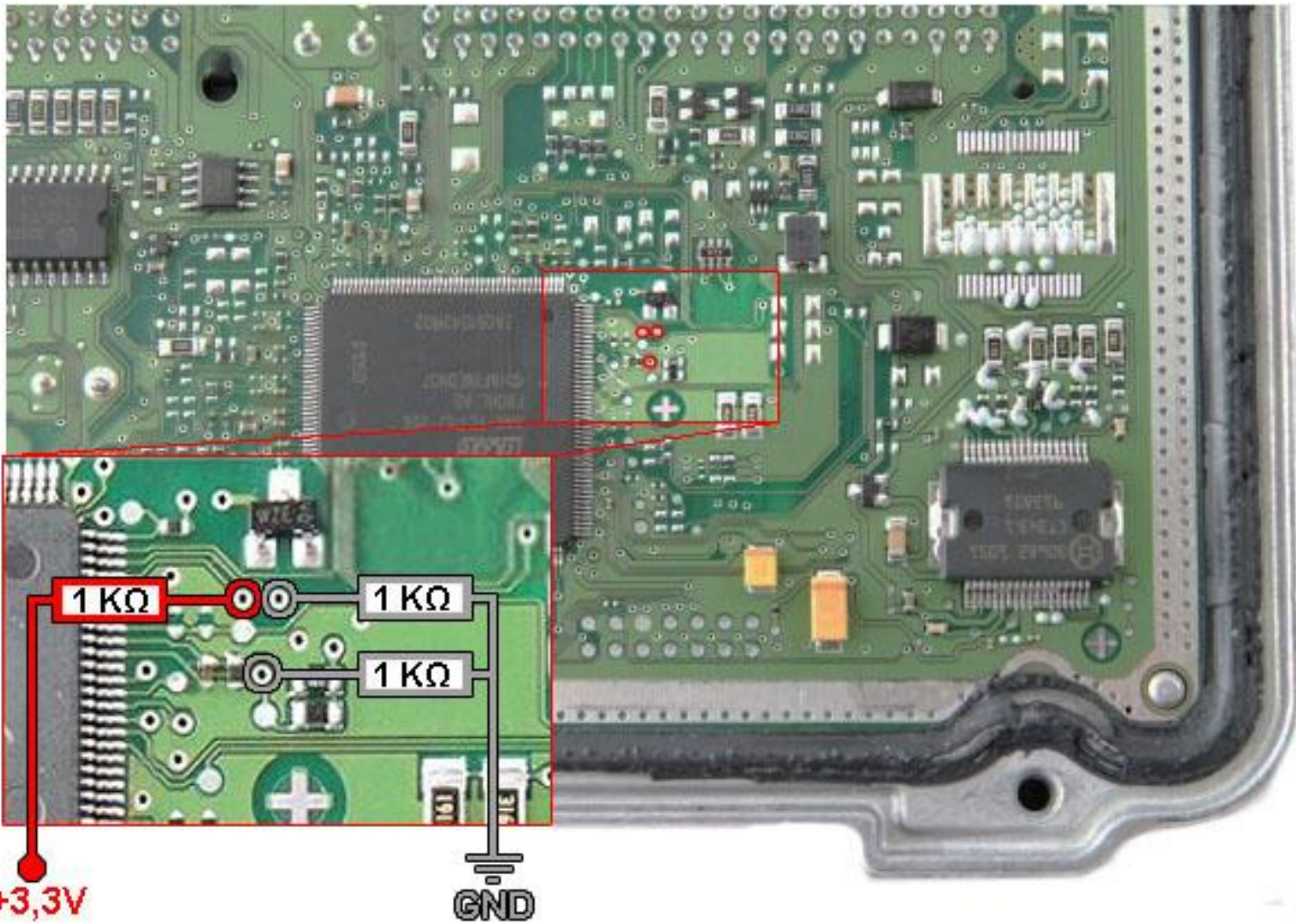
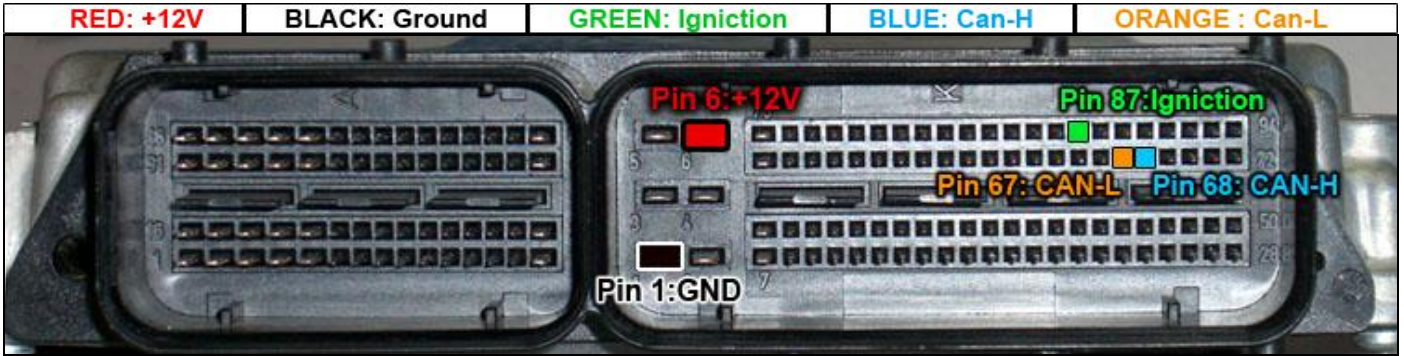


ECU Vag MED 17.5.5 - TC1766 Internal Flash



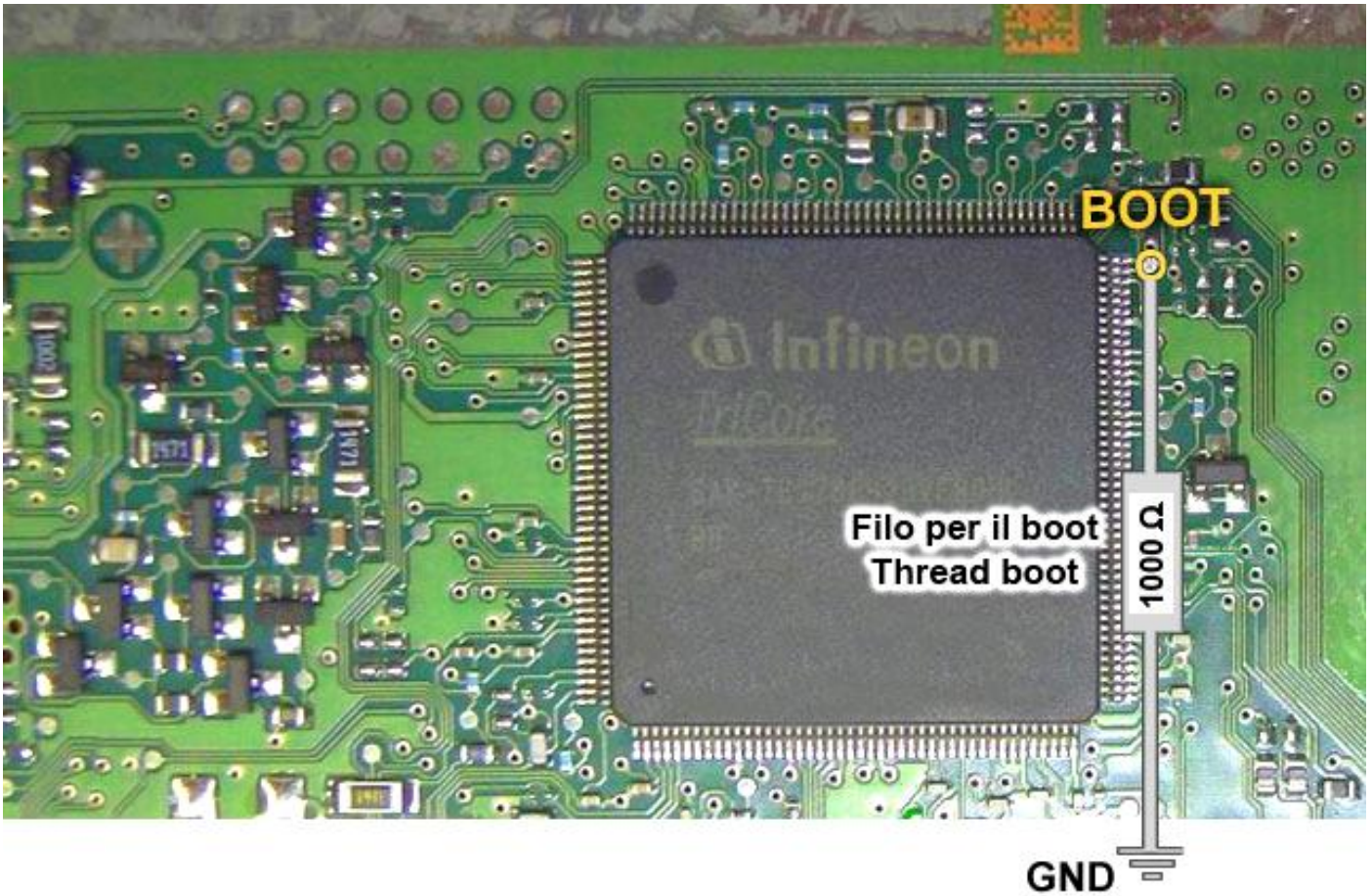
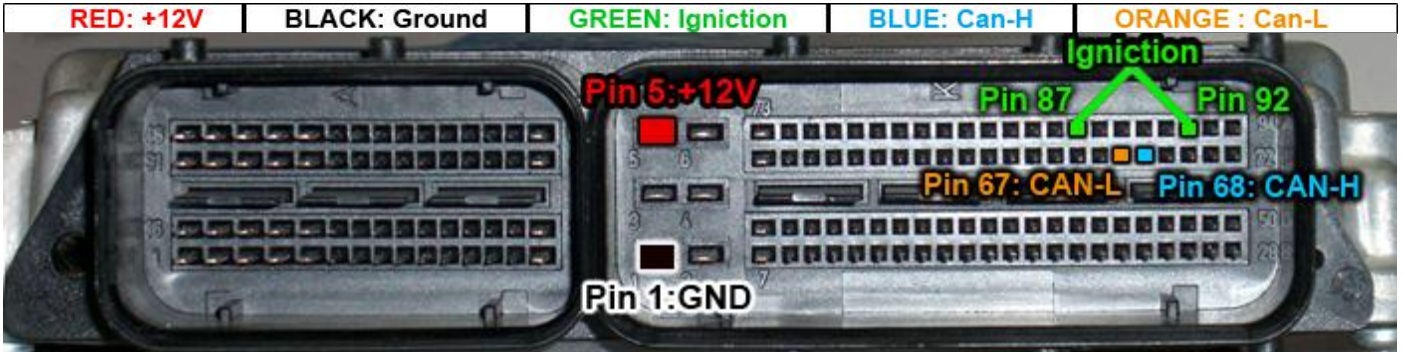


ECU Vag MED 17.5.6 - TC1767 Internal Flash





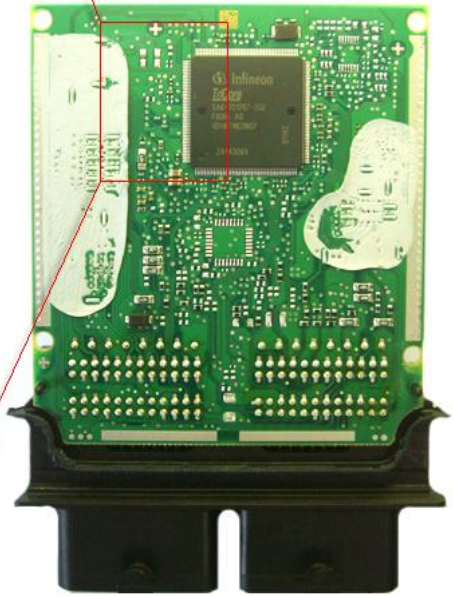
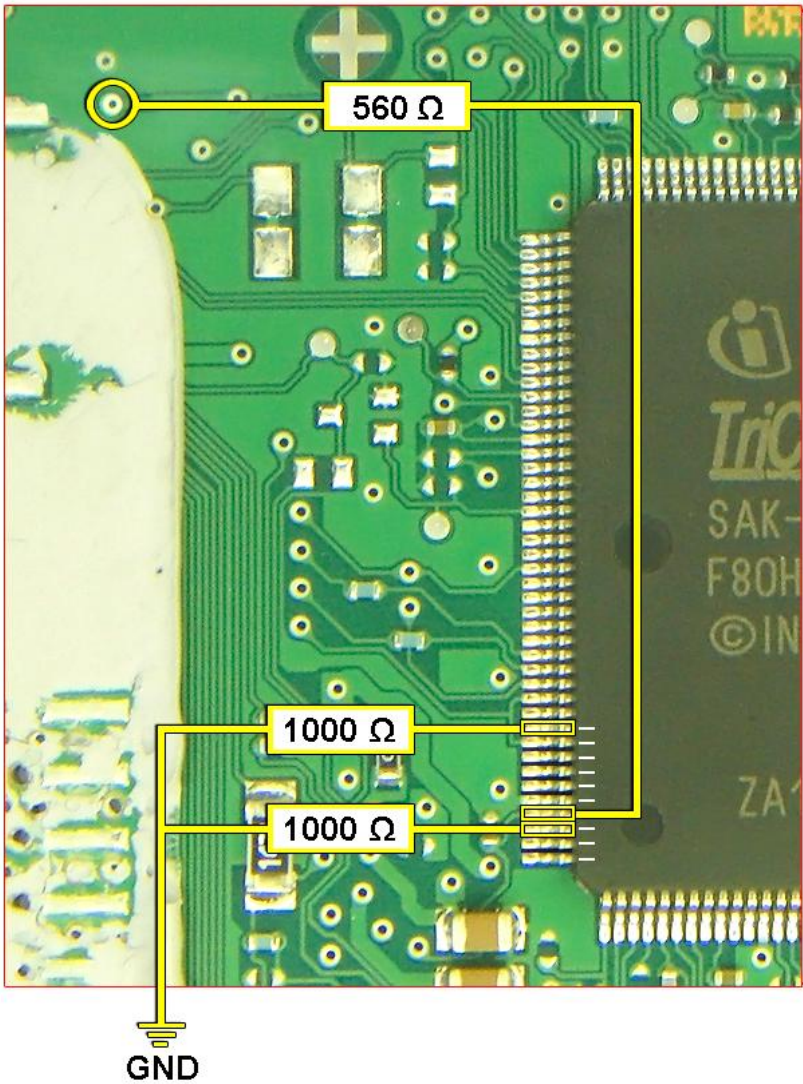
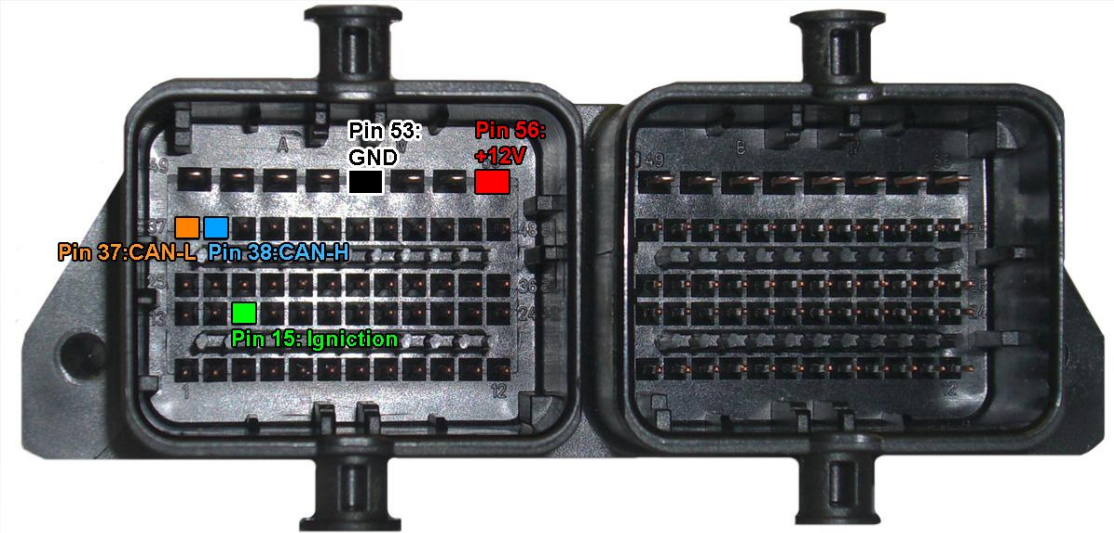
ECU Vag MED 17.5.20 - TC1766 Internal Flash





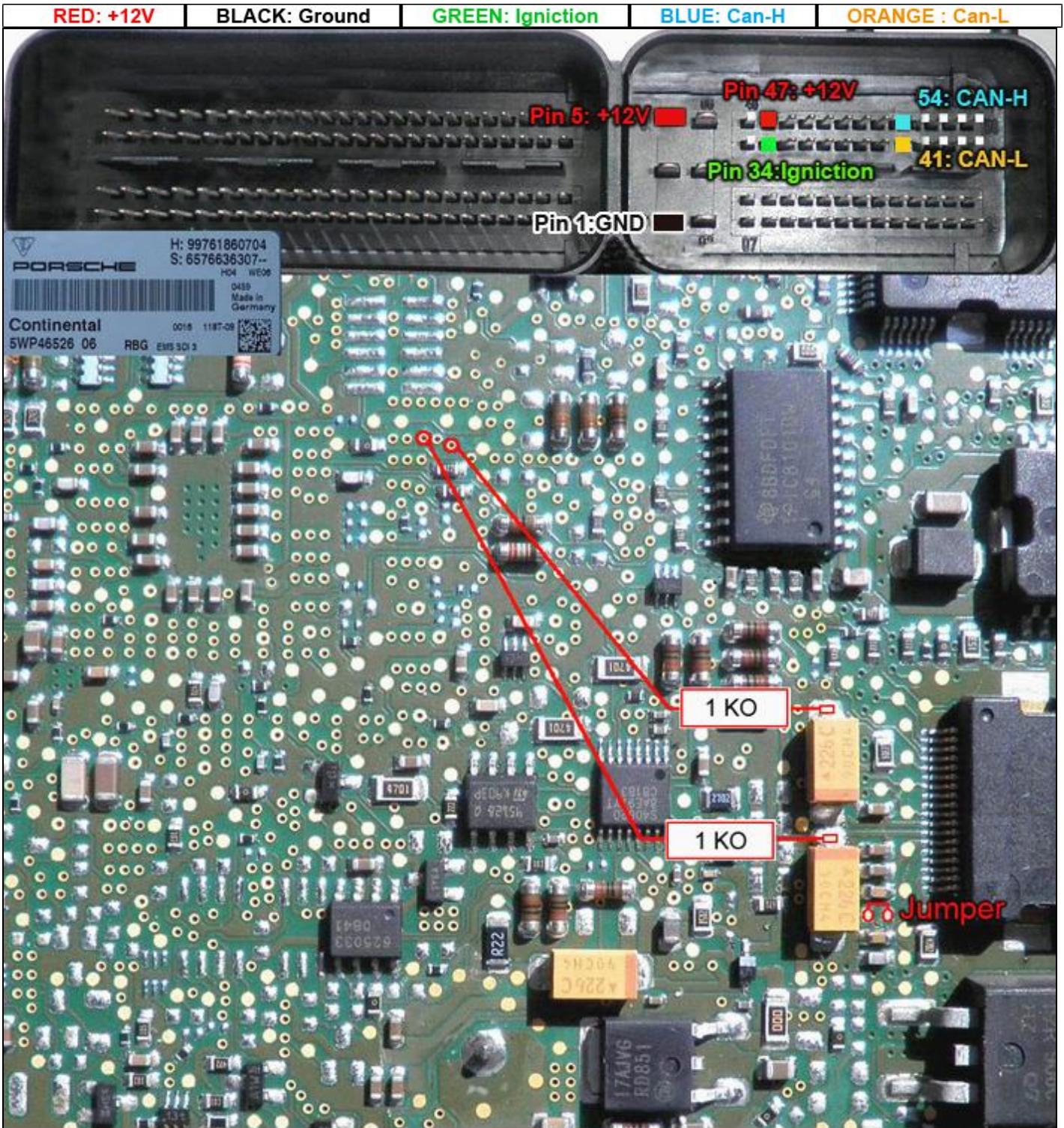
ECU Vag ME 17.5.20 - TC1767 Internal Flash

RED: +12V	BLACK: Ground	GREEN: Ignition	BLUE: Can-H	ORANGE : Can-L
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ECU EMS SDI 3 - TC1796 Internal-External Flash



*N.B. Fare attenzione al jumper.
P.S. Make attention to the jumper.*





ECU Vag Continental SIMOS PCR2.1 - TC1796 Internal Flash

PER SBLOCCARE LA PROGRAMMAZIONE SERIALE

FOR UNLOCK SERIAL PROGRAMMING

Attenzione:

La centralina Continental Simos PCR2.1 si può scrivere **SOLO** sulla macchina tramite presa OBD.

Prima però, è necessario sbloccare la scrittura tramite boot mode utilizzando il driver:

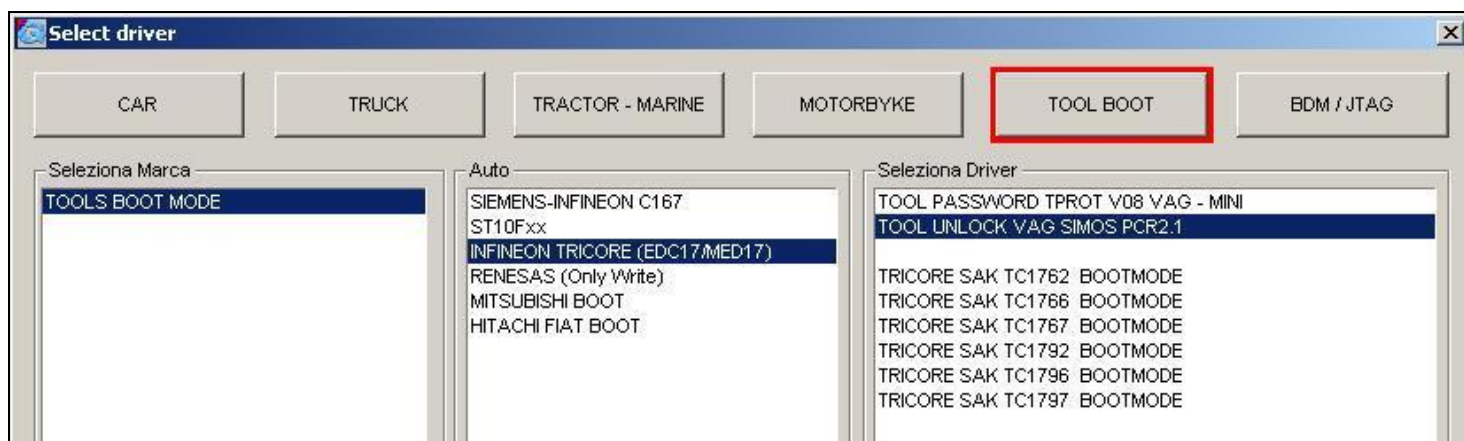
TOOL UNLOCK VAG SIMOS PCR2.1:

Attention:

*You can write the Continental Simos PCR2.1 **ONLY** through OBD taken on the car.*

But before it is necessary unlock the writing through boot mode using the driver:

TOOL UNLOCK VAG SIMOS PCR2.1:



Quindi, dopo aver effettuato lo sblocco si potrà chiudere e rimontare la centralina sulla macchina e scriverla tramite il driver seriale.

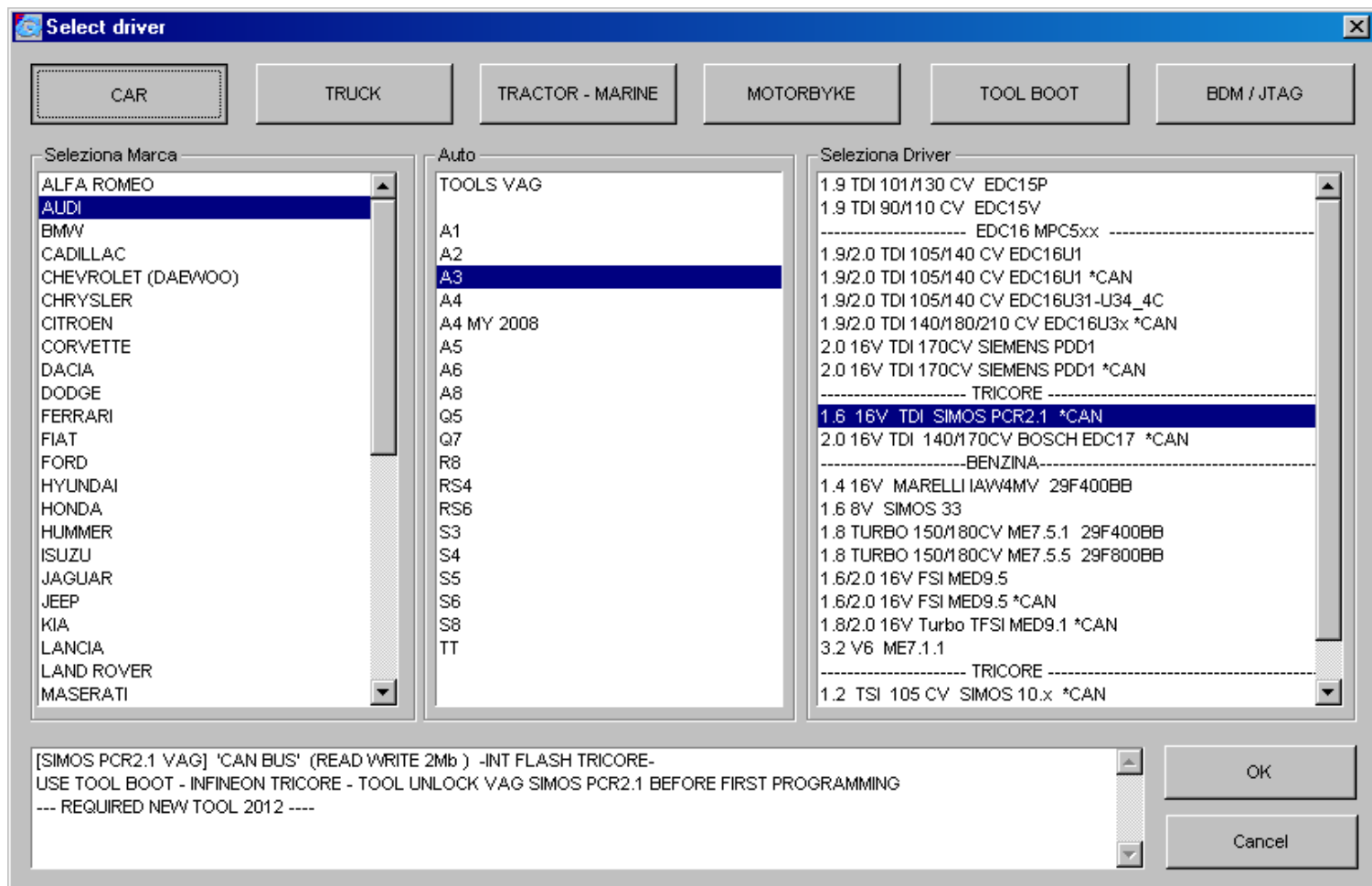
So, after unlocking the ECU, you can close and climb on it on the car and write with the serial driver.

Attenzione: Effettuare lo sblocco della centralina solo una volta.

Attention: Do the unlock of the ecu only one time.

Esempio di driver seriale da selezionare per una Audi A3:

Example of serial driver to select for an Audi A3:

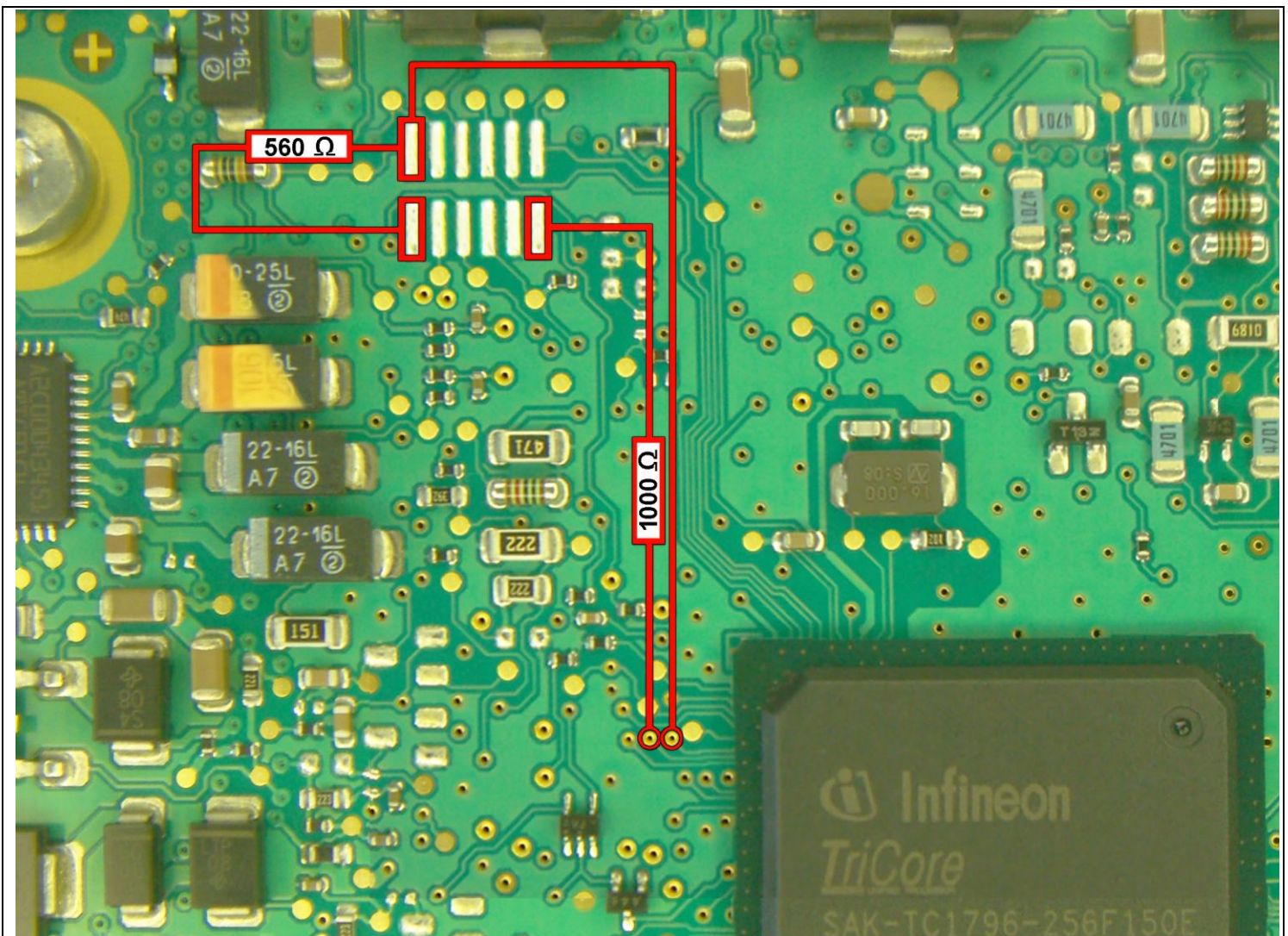


A pagina seguente le istruzioni per mettere in boot la centralina.

At following page there are the instructions for setting the ECU in boot.



Mettere in boot la centralina utilizzando 1 resistenza da 1000Ω e 1 da 560Ω.
Set to boot the ECU using 1 resistore of 1000 Ω and 1 of 560 Ω.



Driver da utilizzare / Driver to use:

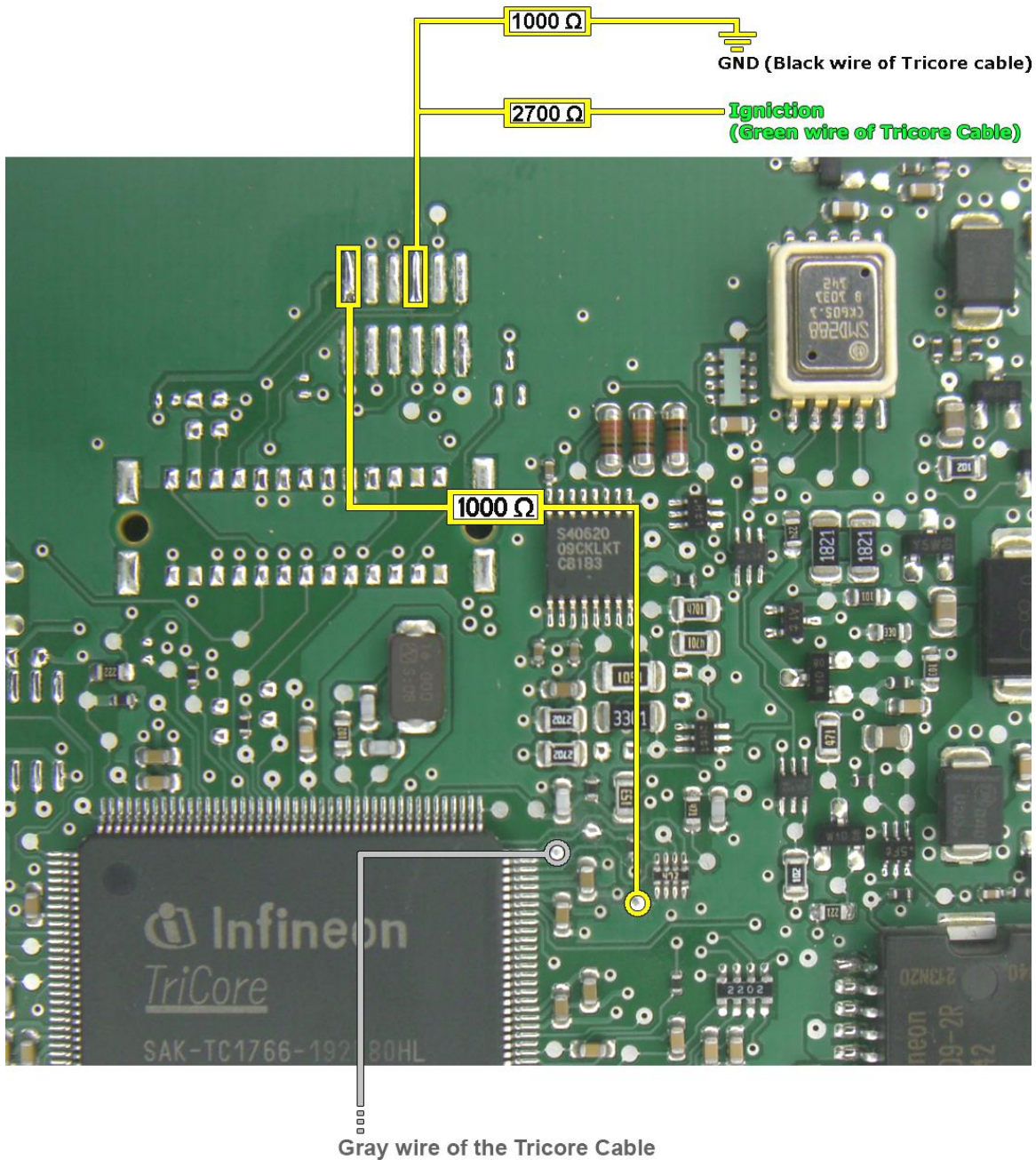
TOOLS BOOT MODE > INFINEON TRICORE (EDC17/MED17) > TOOL UNLOCK VAG SIMOS PCR2.1

Attention: Effettuare lo sblocco della centralina solo una volta / *Do the unlock of the ecu only one time.*



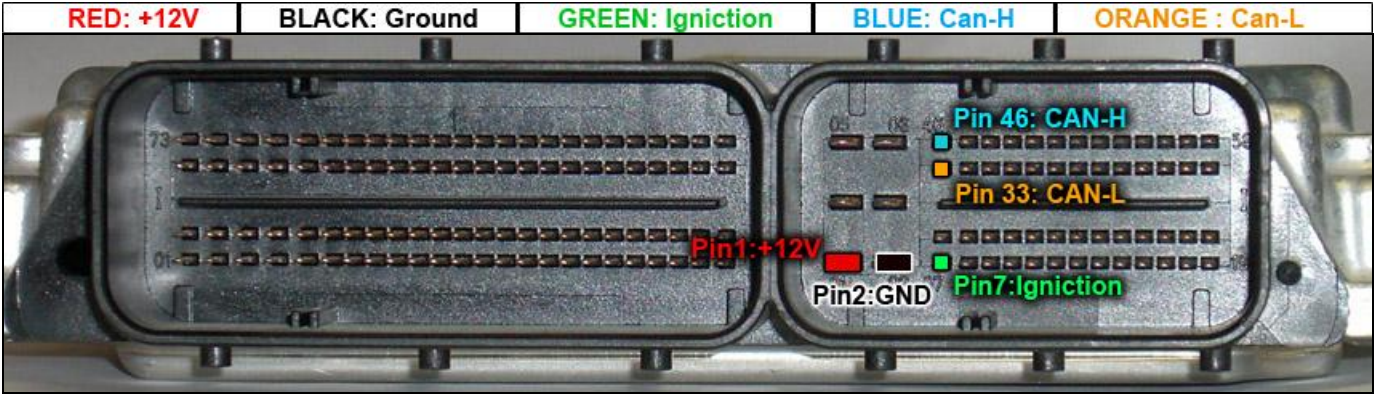


ECU Simos 10.11 - TC1766 Internal Flash *



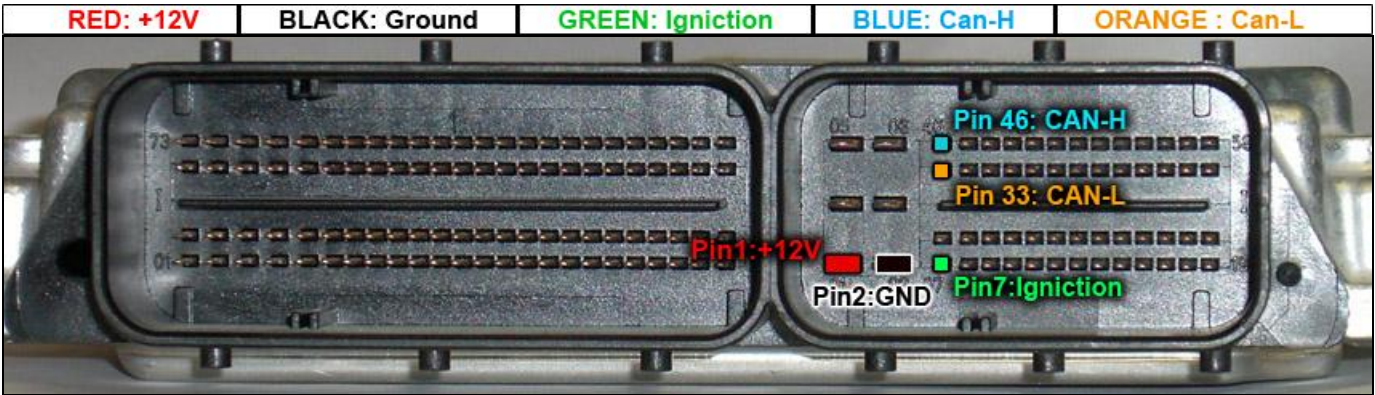


ECU EDC17 CP02 BMW X1 – TC1766 Internal Flash



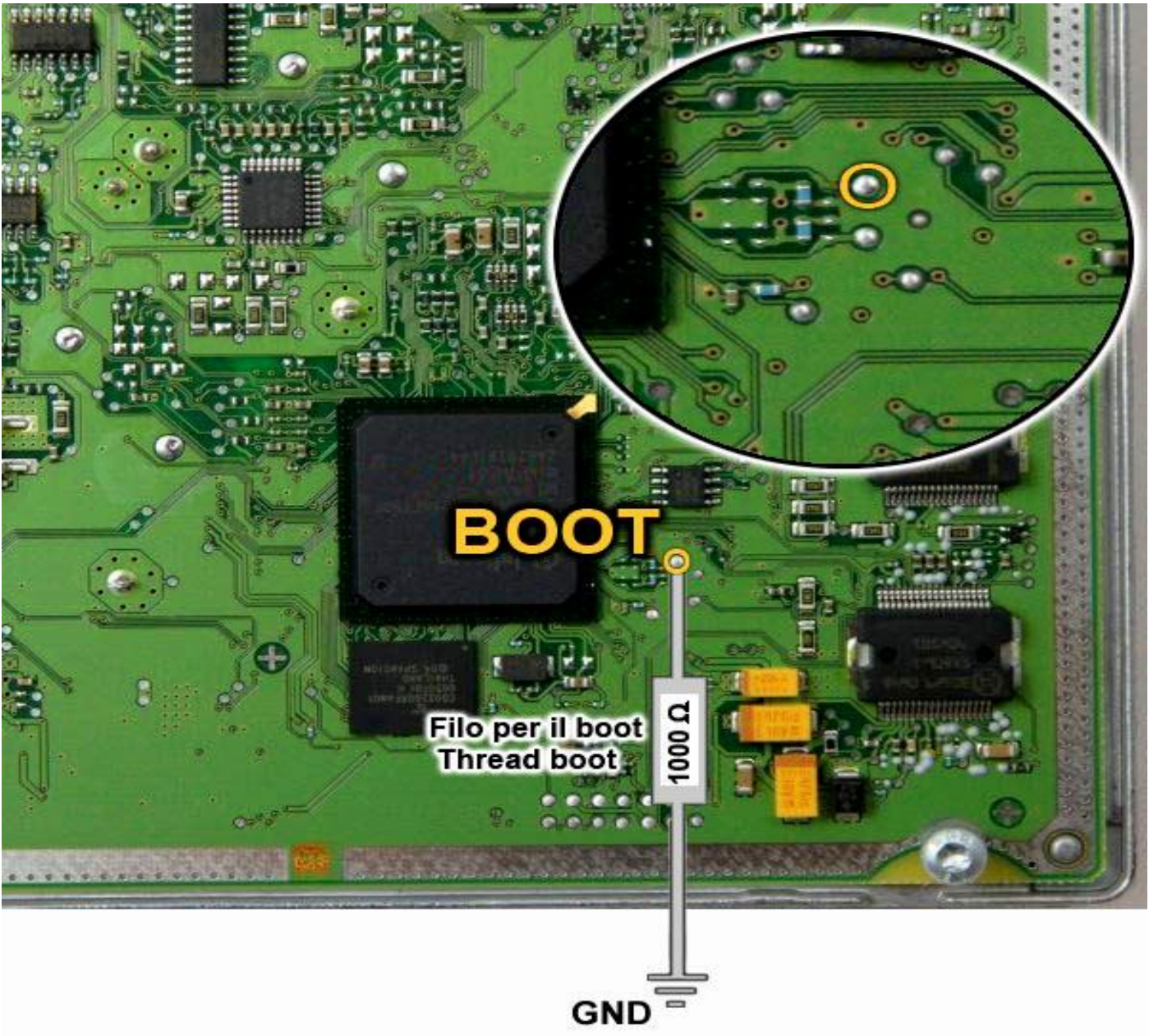
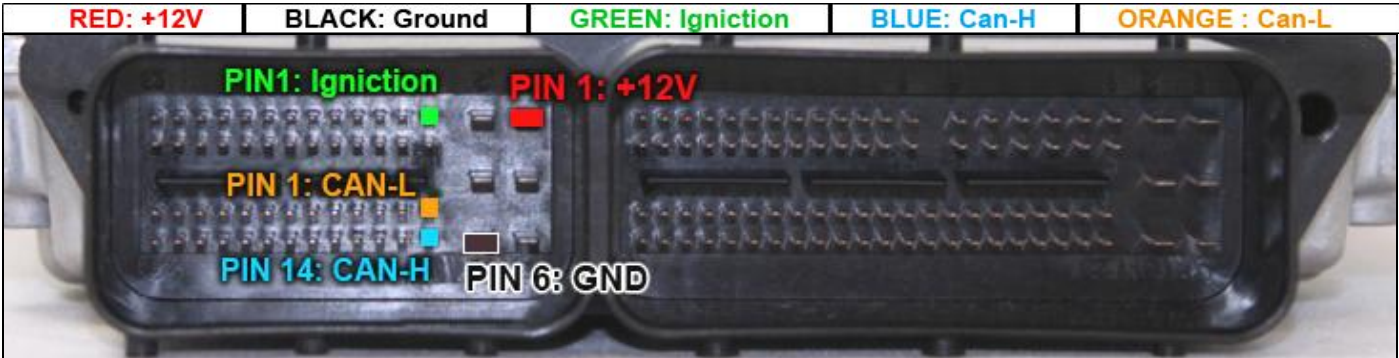


ECU EDC17 BMW 318D – TC1766 Internal Flash



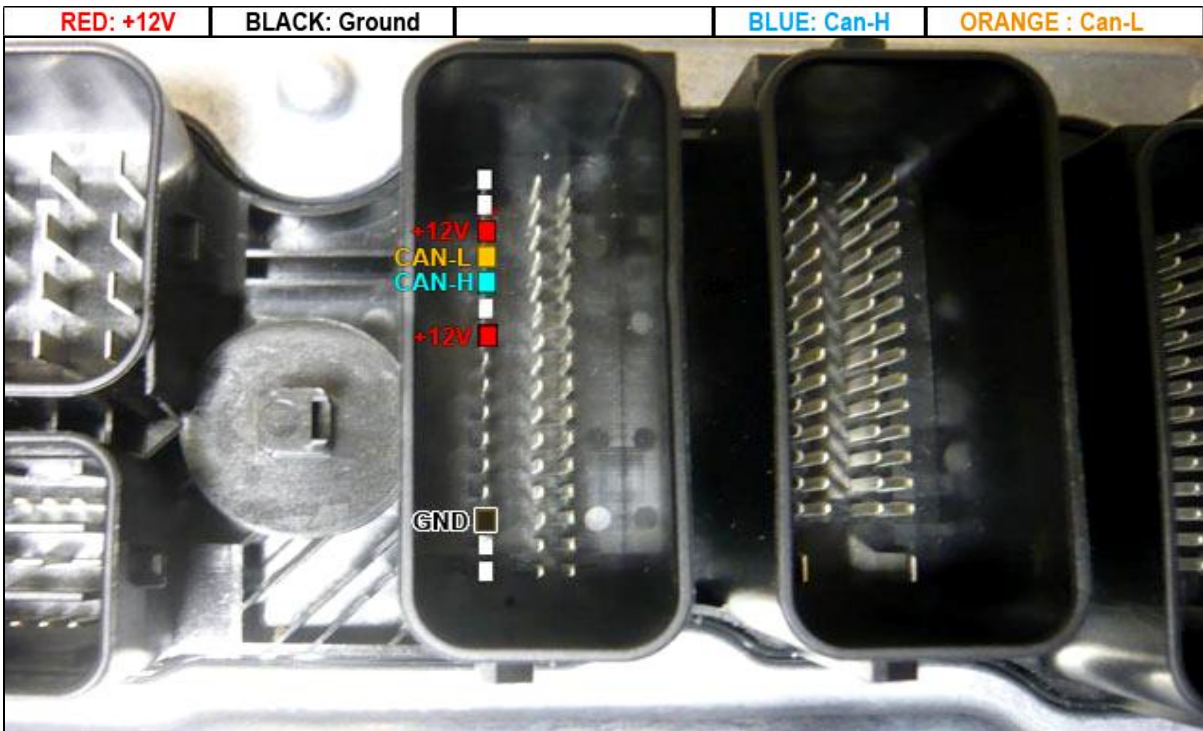


ECU MEV17.4 6 BMW – TC1796 Internal-External Flash



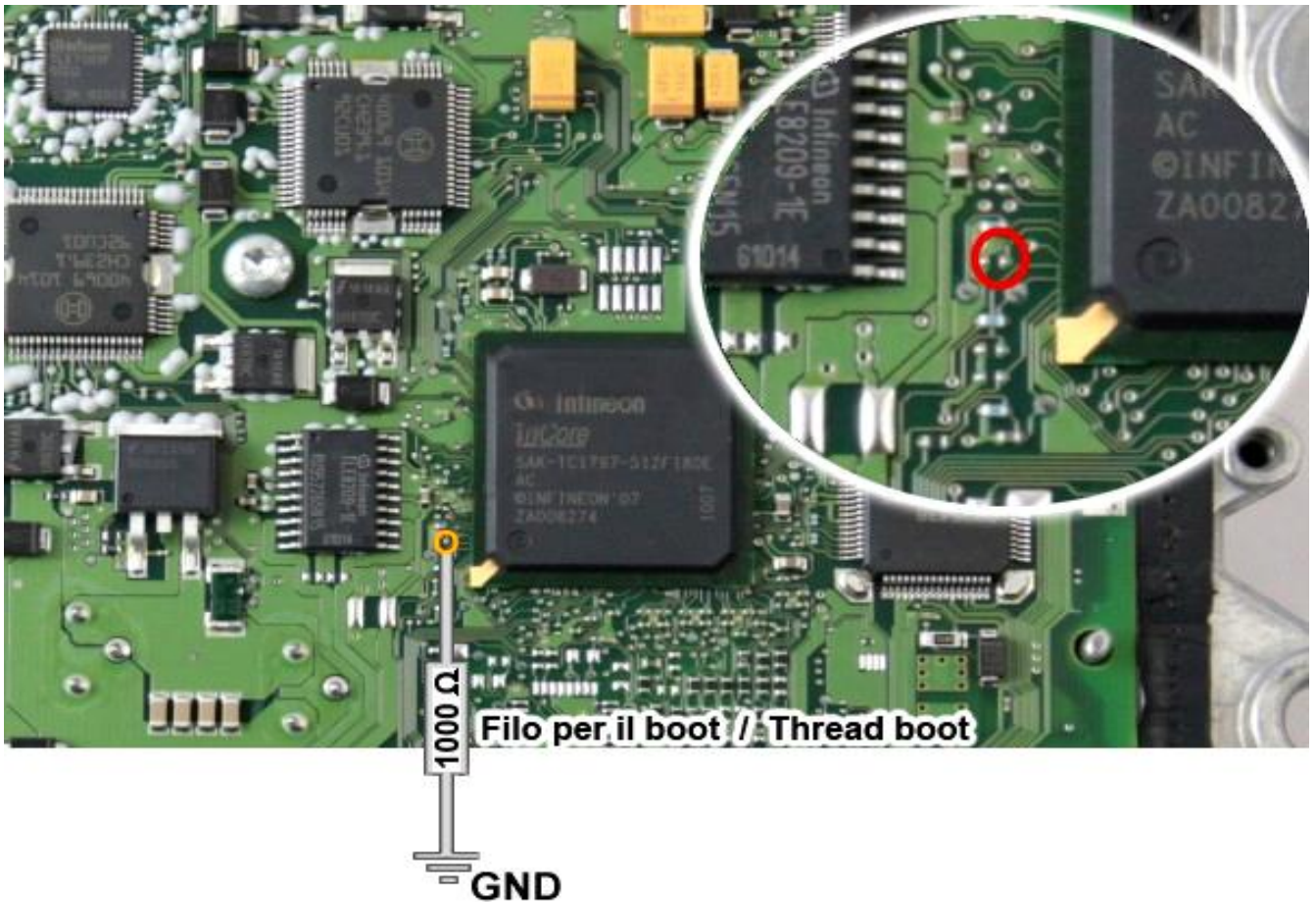
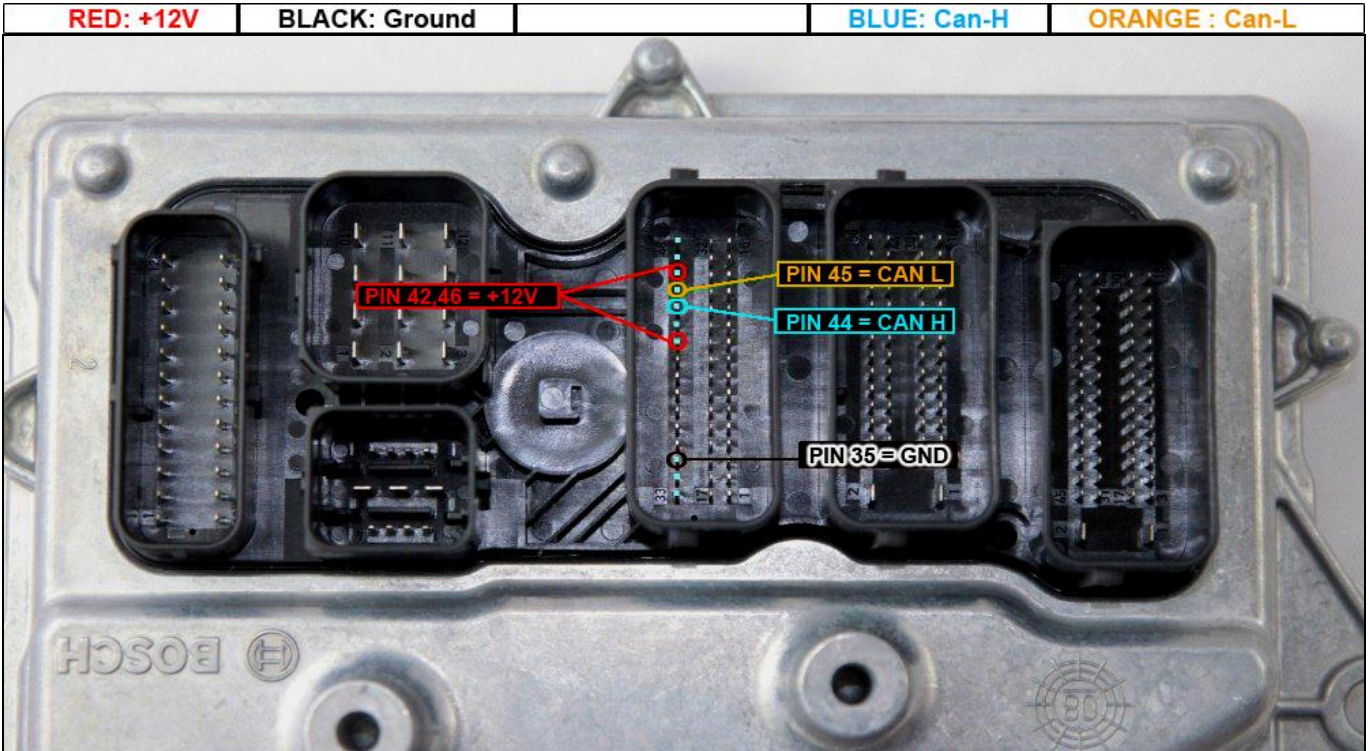


ECU MEVD17 BMW 3.0 T N55 - TC1797 Internal Flash



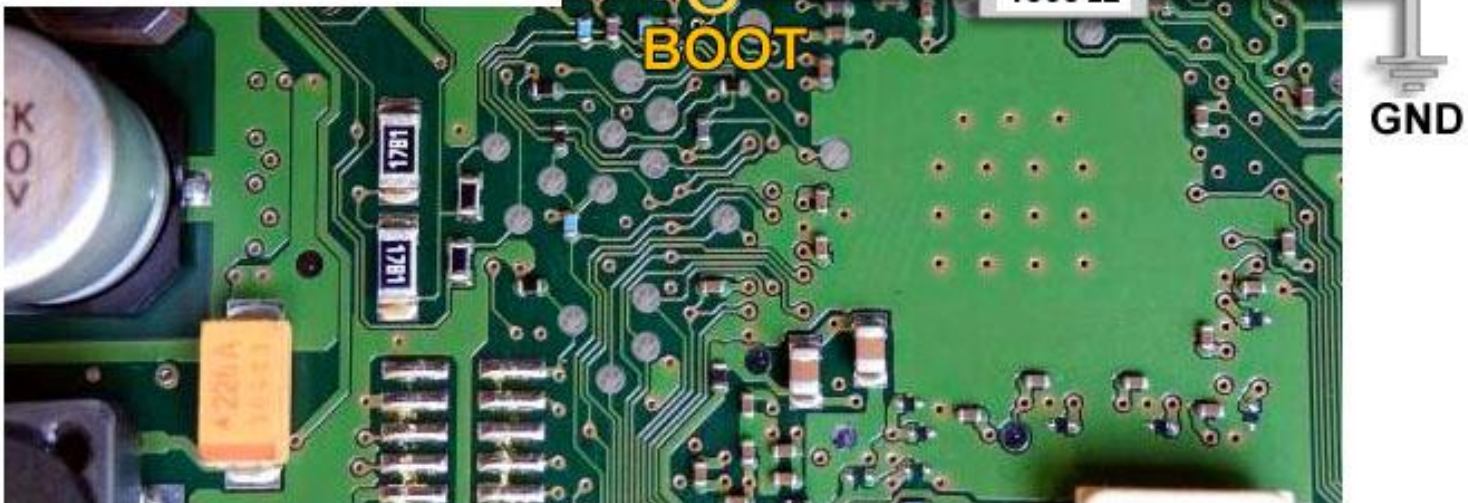
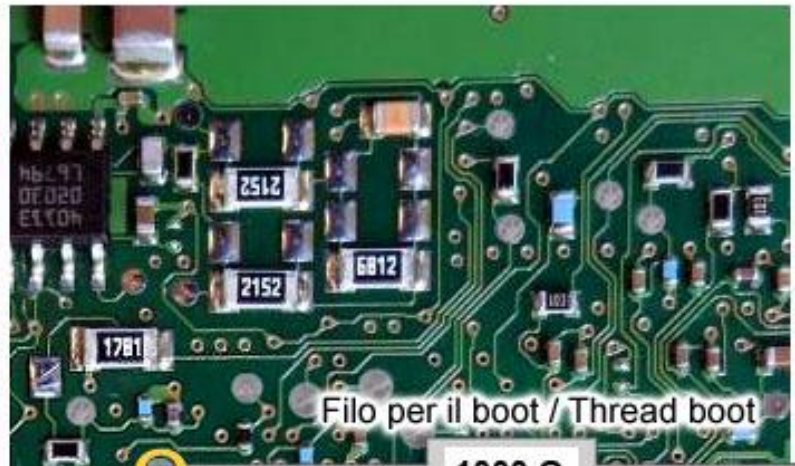
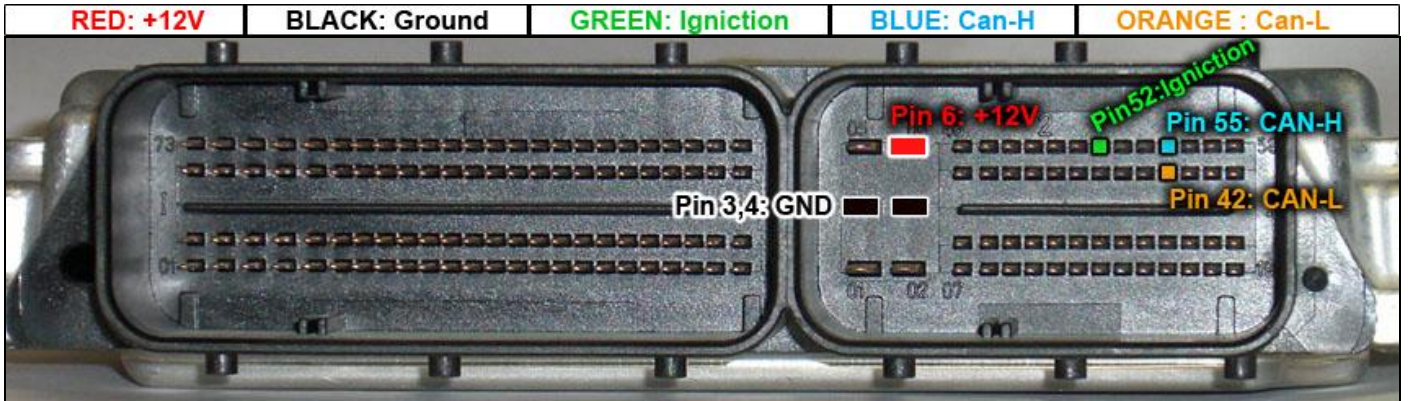


ECU MEVD17.2 BMW - TC1797 Internal Flash



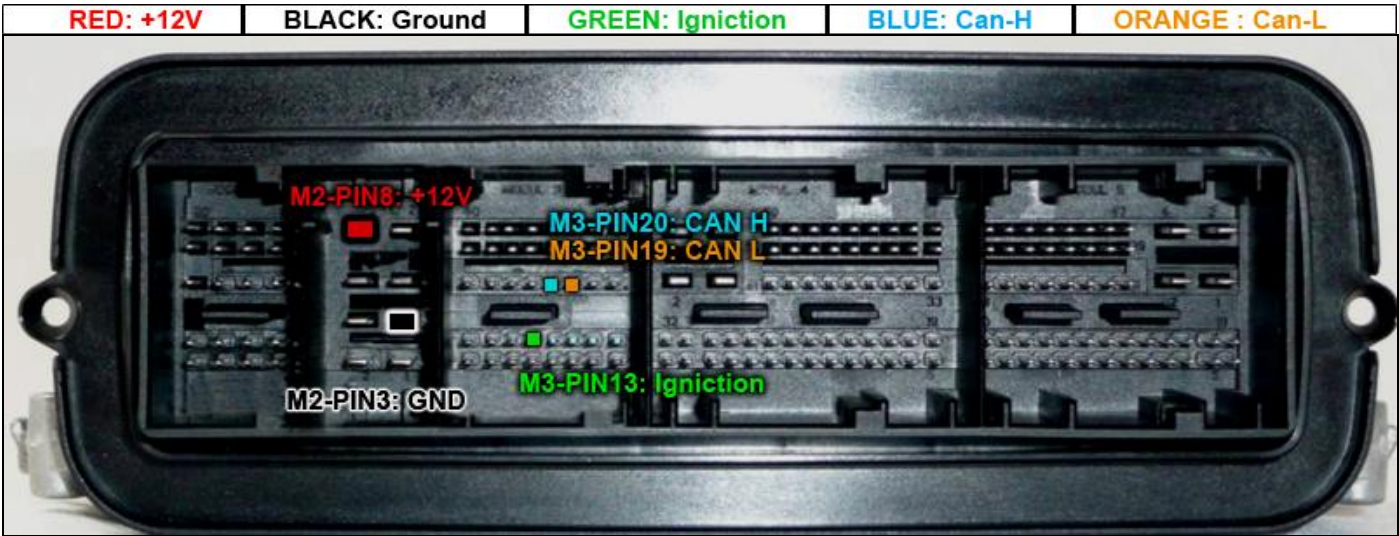


ECU MED17 BMW BMSX - TC1797 Internal Flash

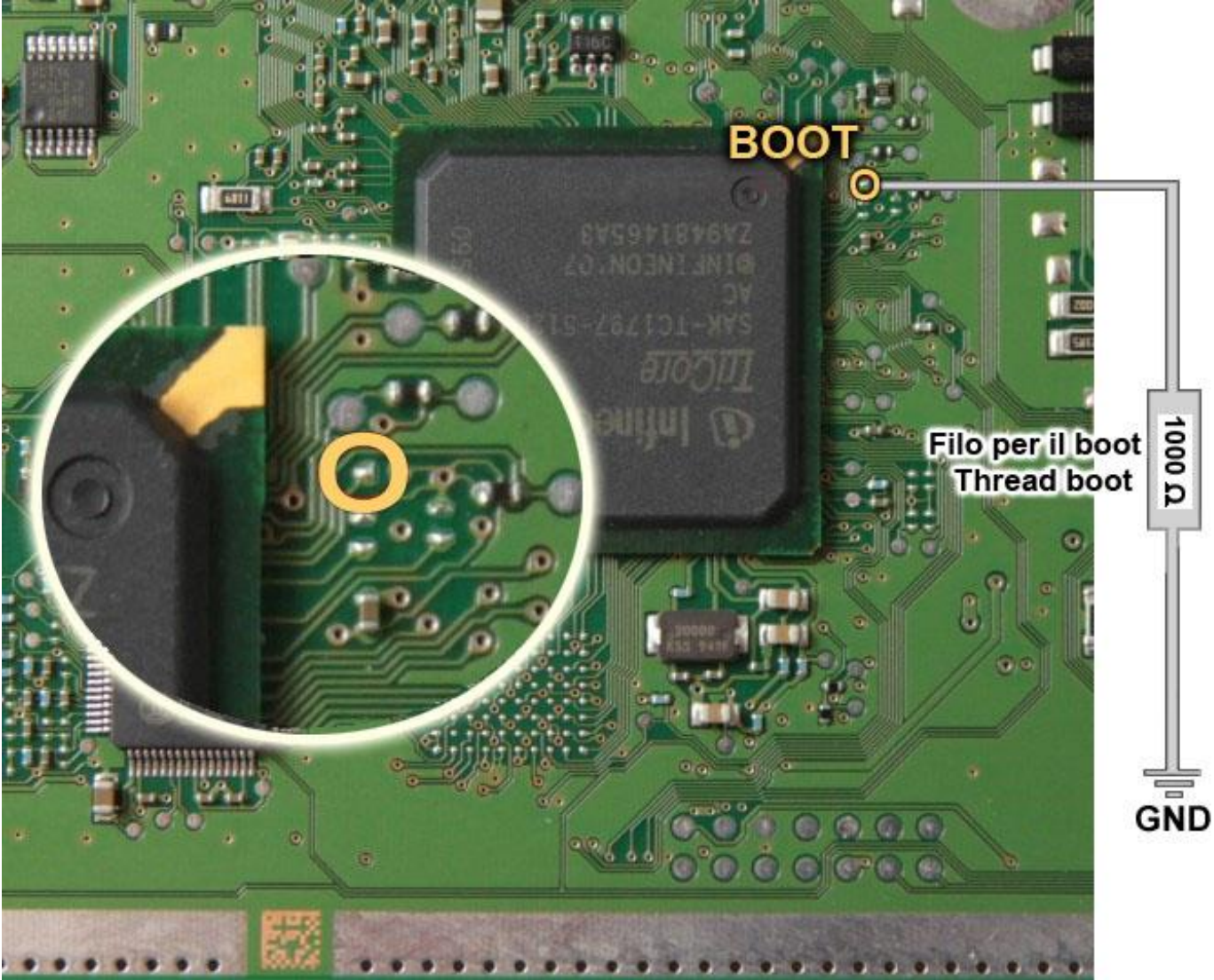




ECU EDC17 CP45 - TC1797 Internal Flash



Il boot si trova nella parte inferiore della centralina / *The pin of the boot is in the backside*





ECU EDC17 CP09 - TC1796/TC1766 Internal Flash

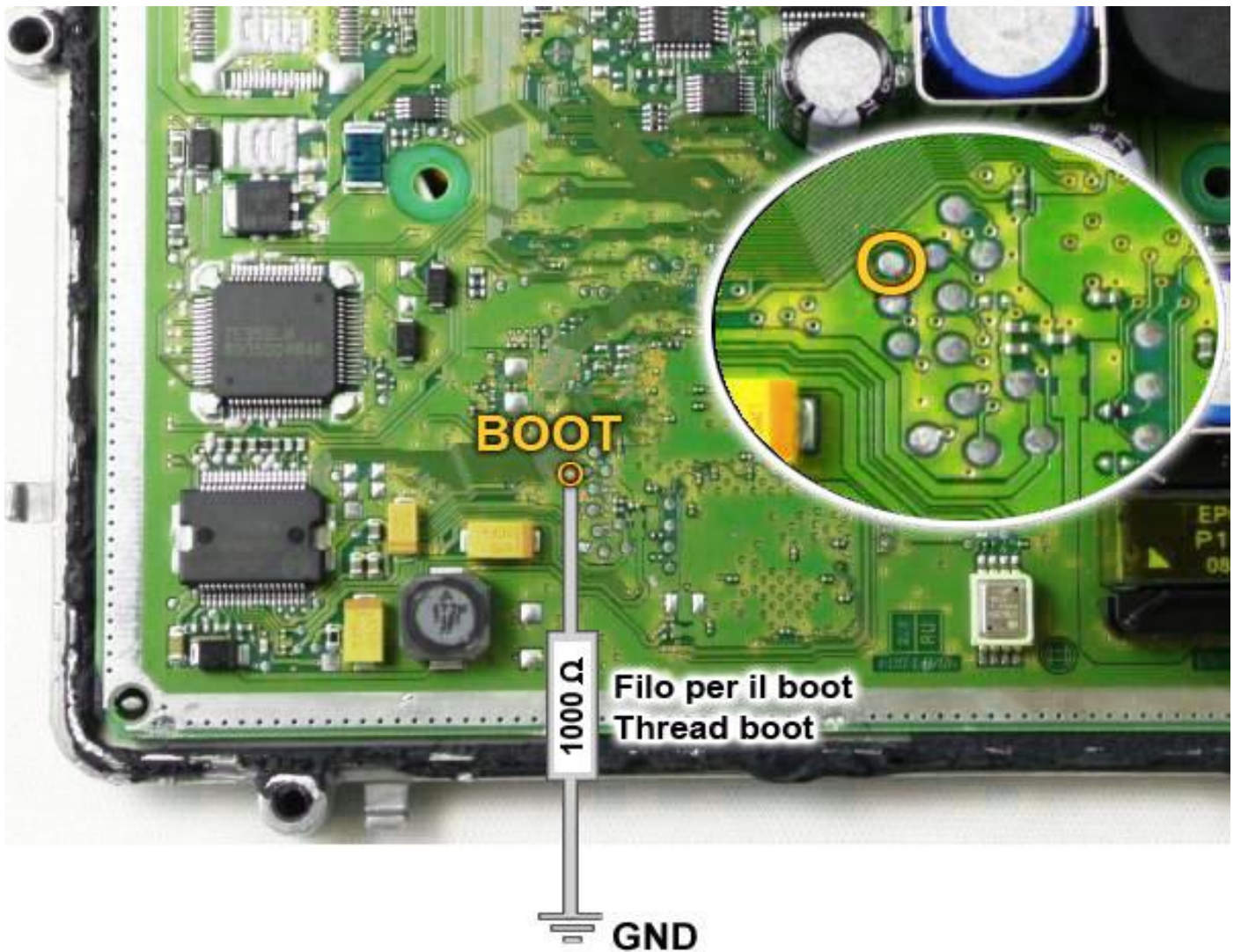
RED: +12V

BLACK: Ground

GREEN: Ignition

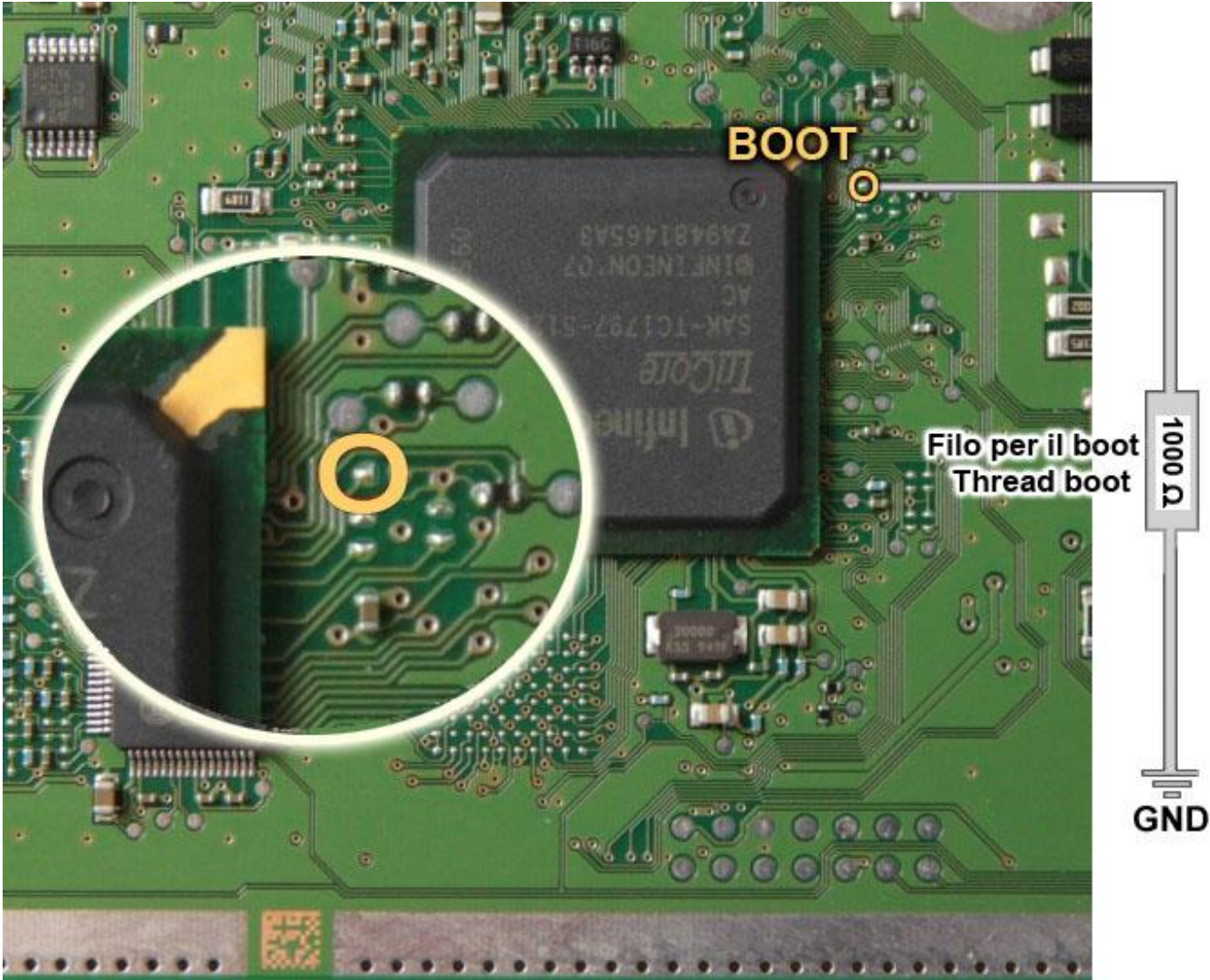
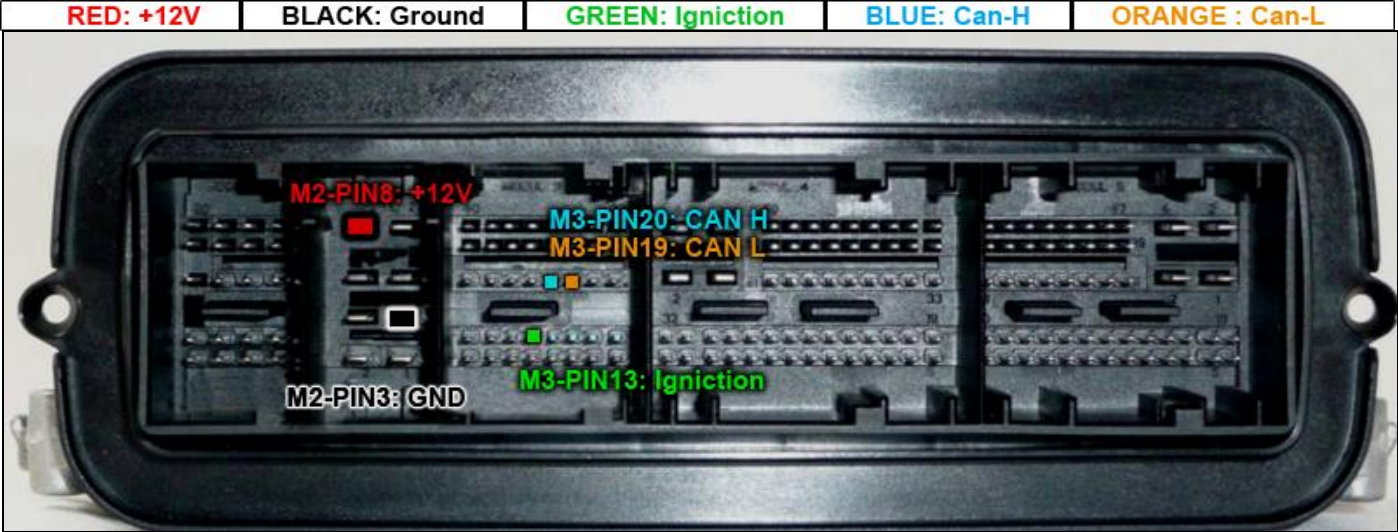
BLUE: Can-H

ORANGE : Can-L



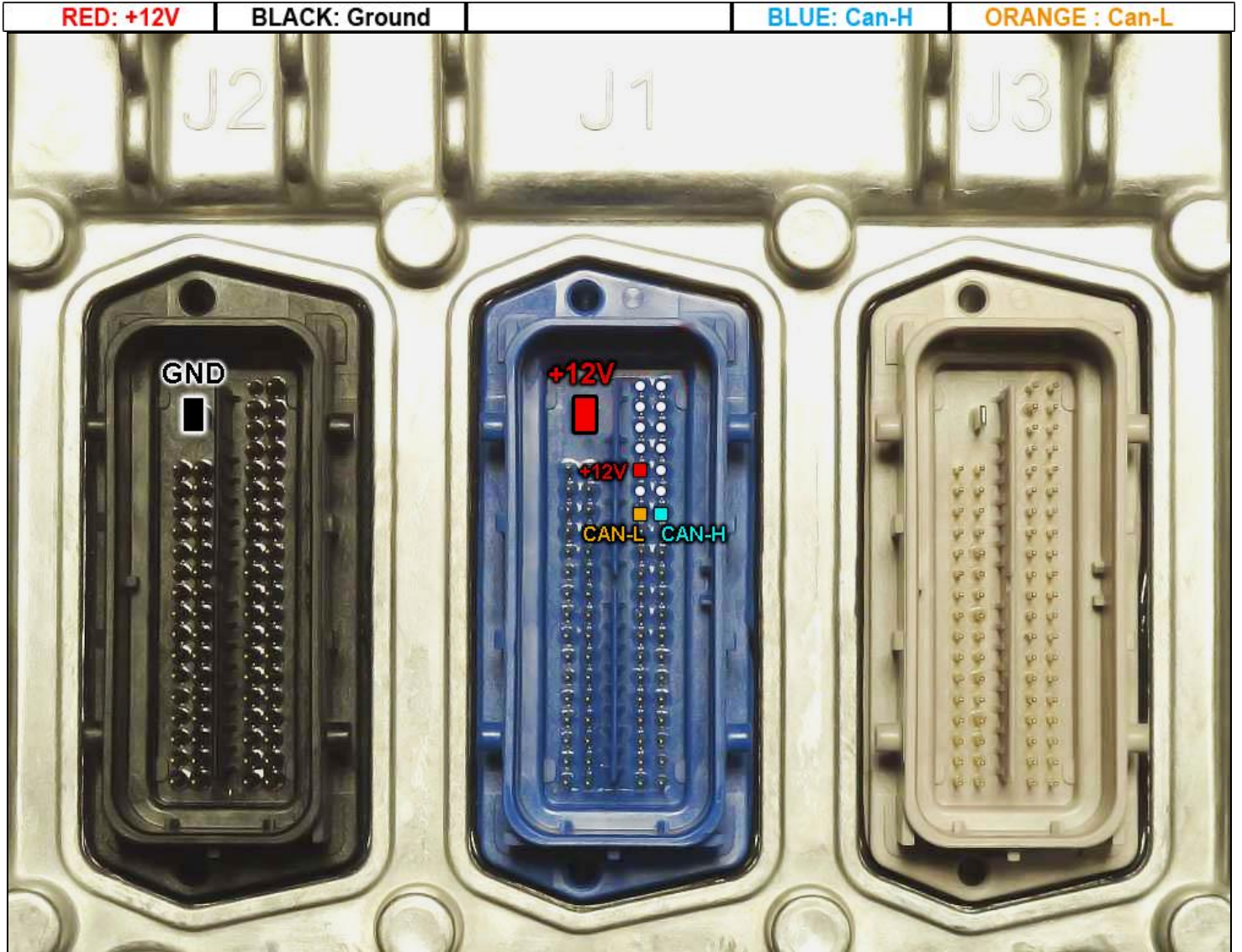


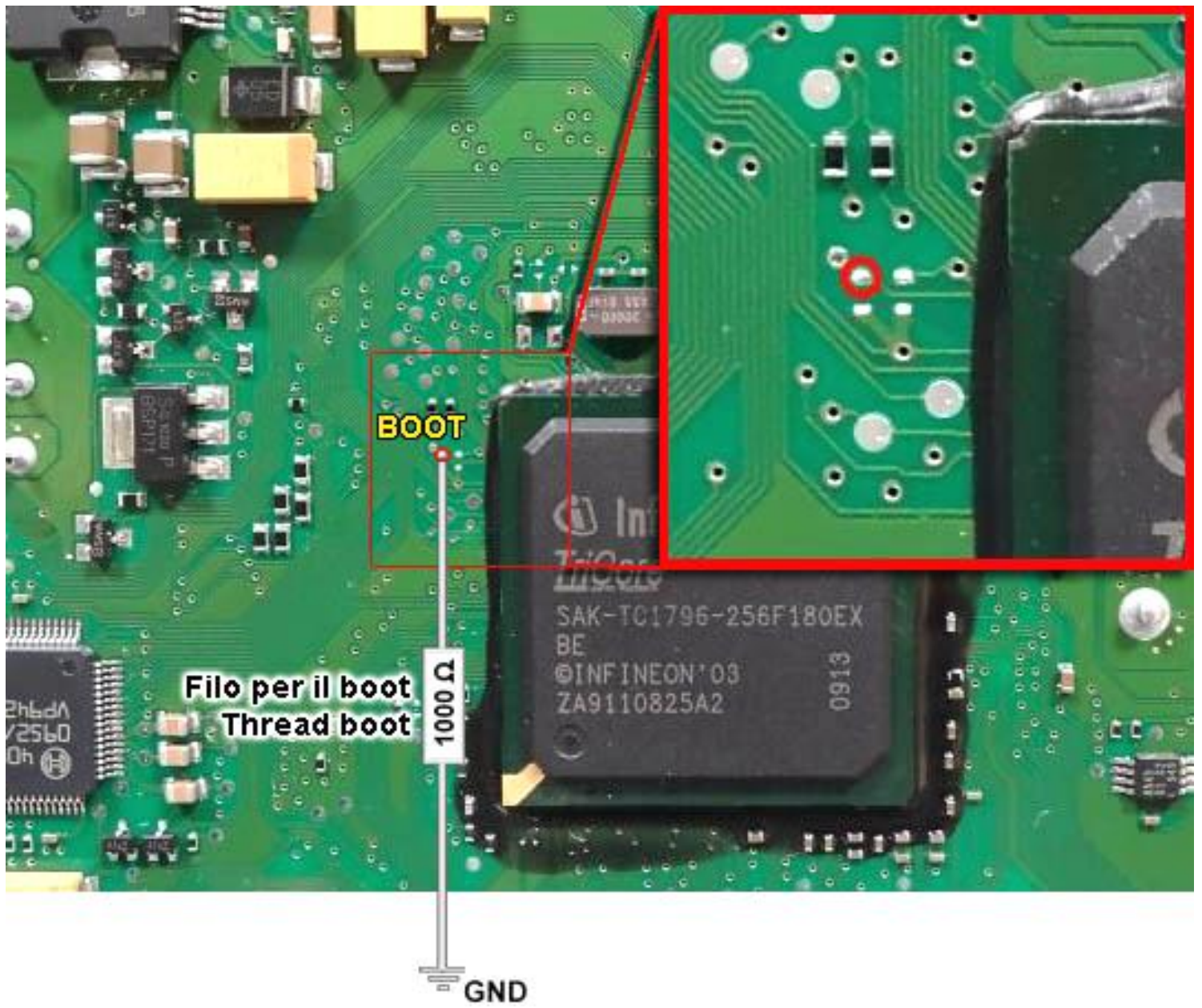
ECU EDC17 C41 - TC1797 Internal Flash



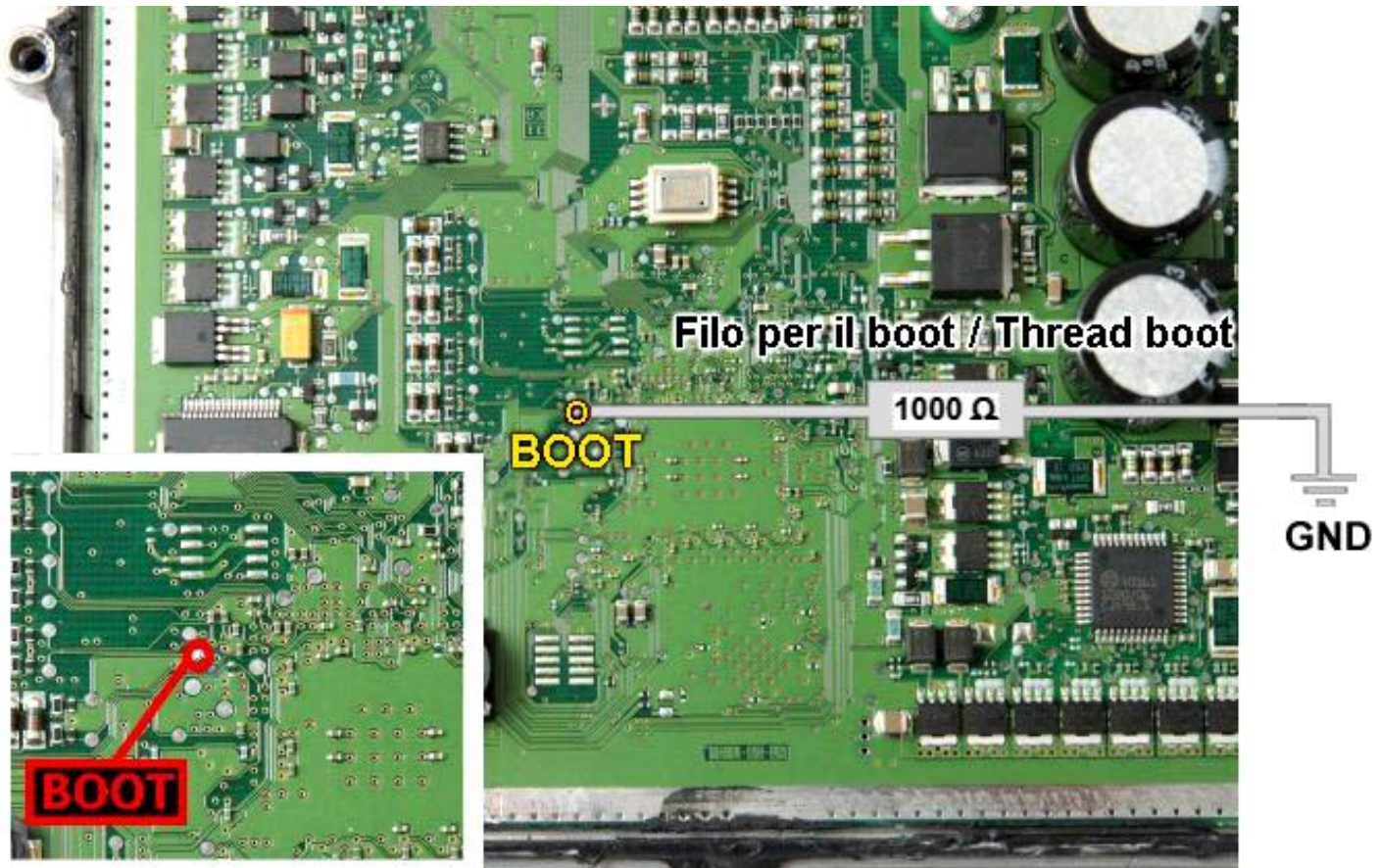
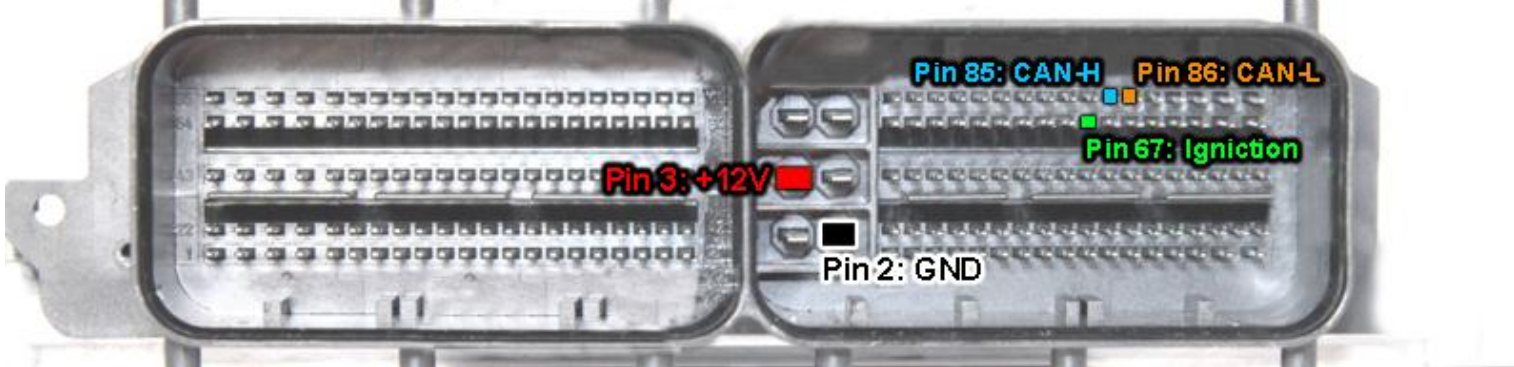


ECU EDC17 CP18 - TC1796 Internal Flash





RED: +12V	BLACK: Ground	GREEN: Ignition	BLUE: Can-H	ORANGE : Can-L
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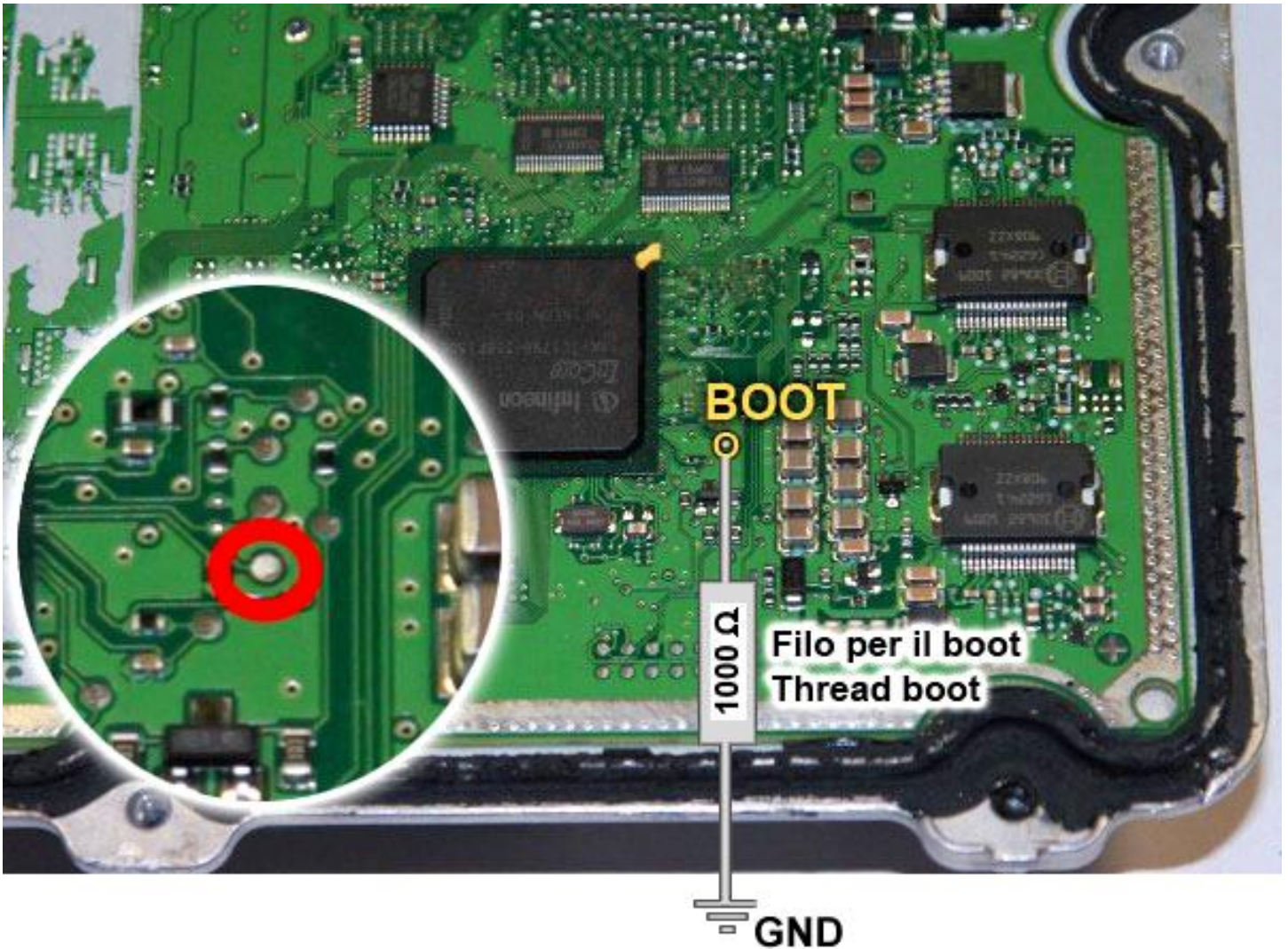
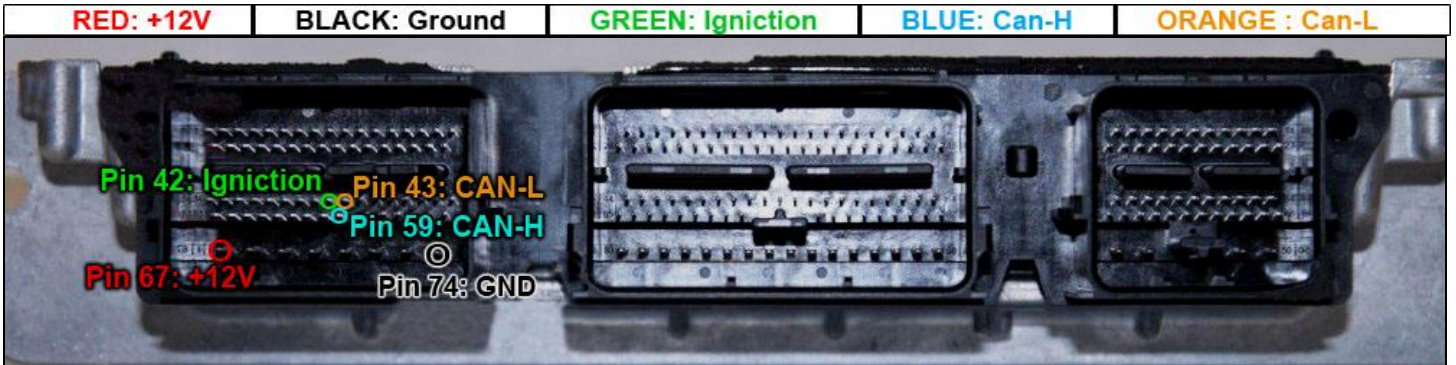


ECU MED17.3.1 – TC1766 Internal Flash



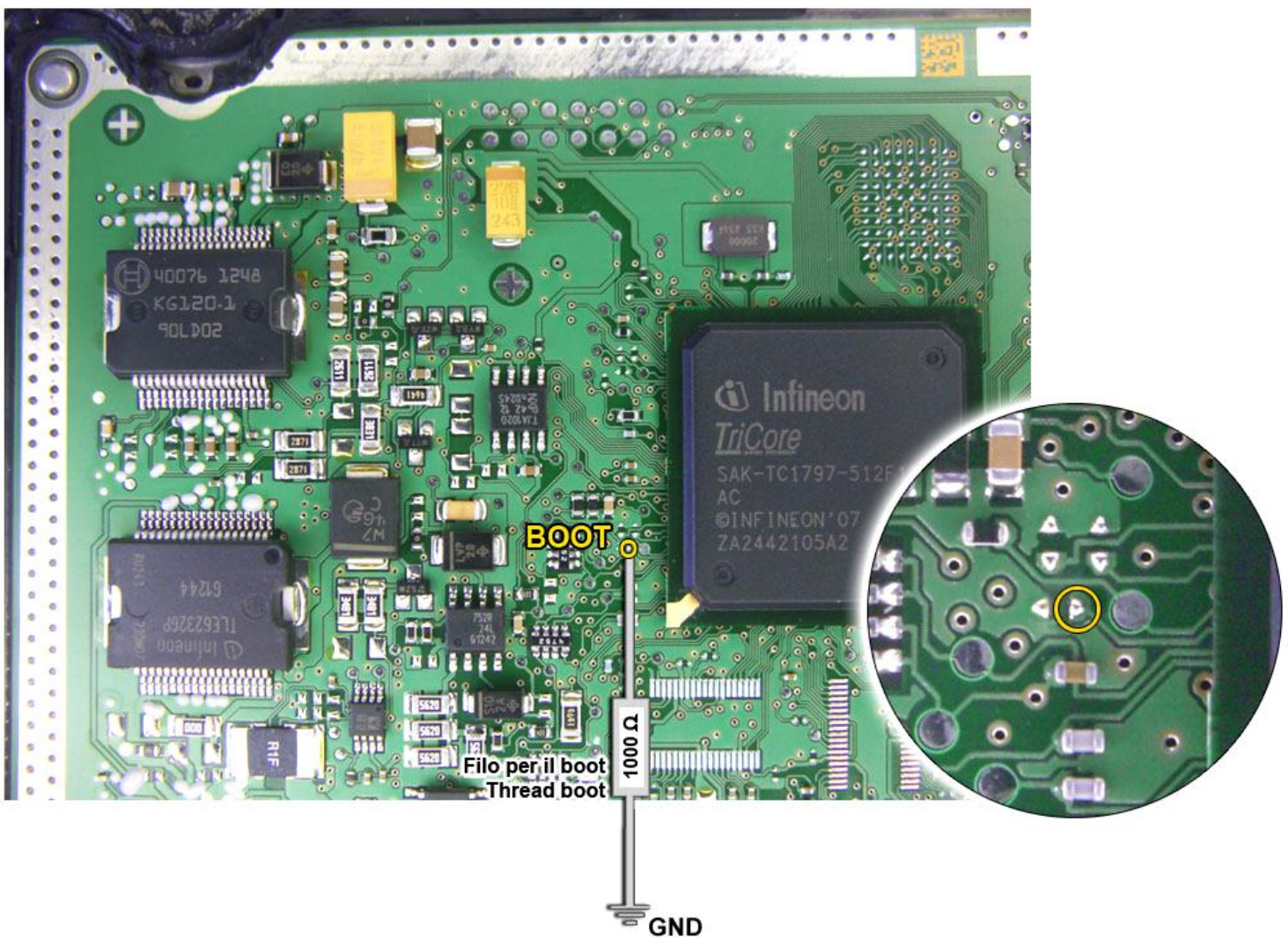
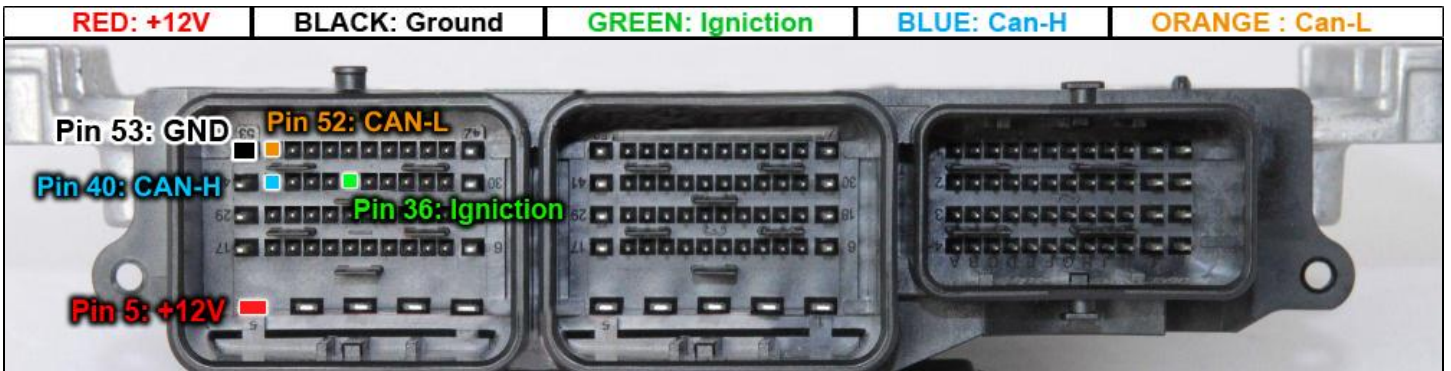


ECU EDC17 CP05 - TC1796 Internal-External Flash



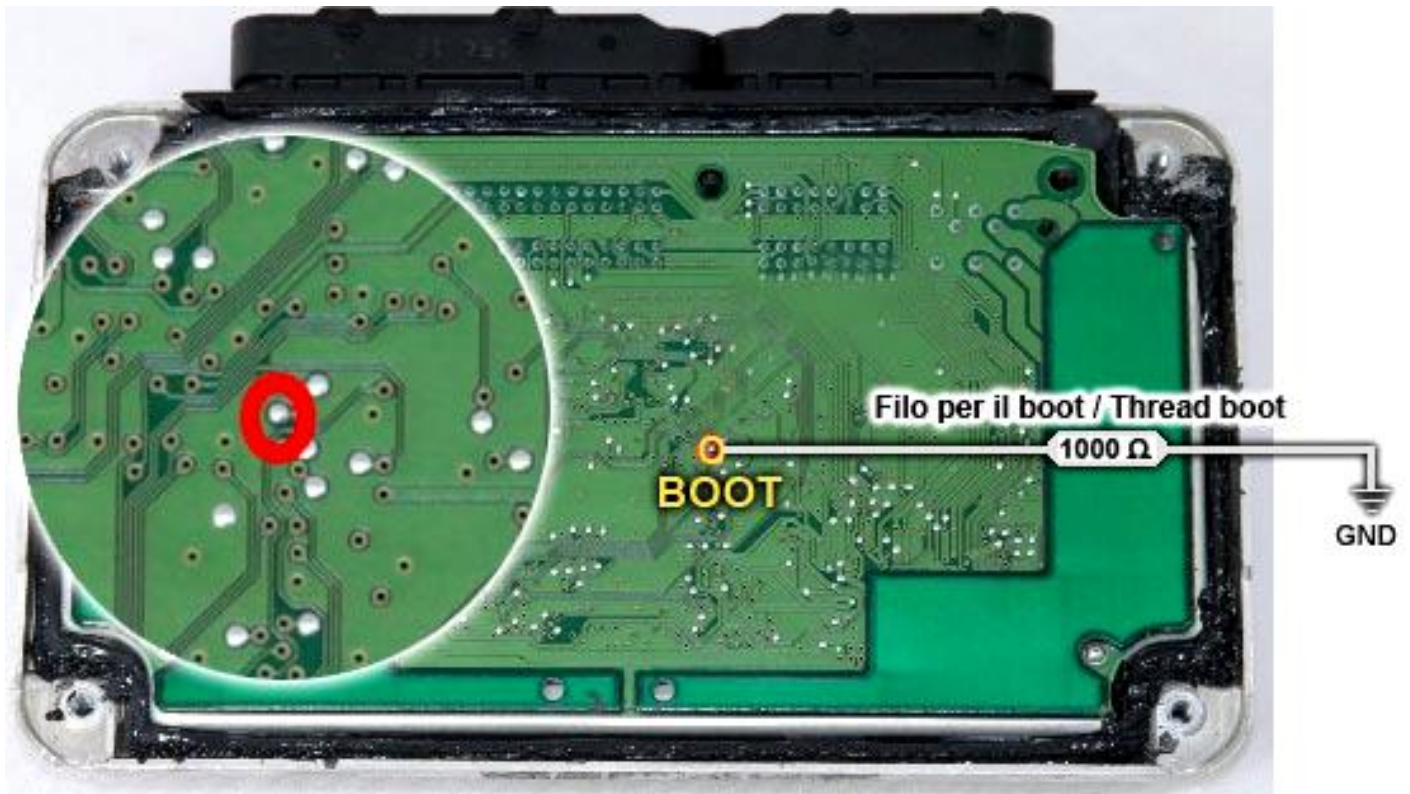
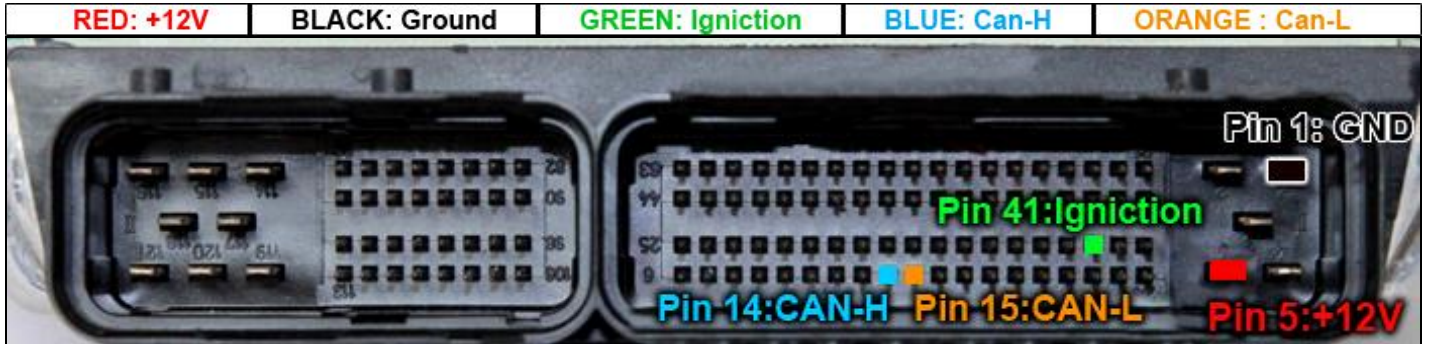


ECU EDC17 CP10 - TC1797 Internal Flash



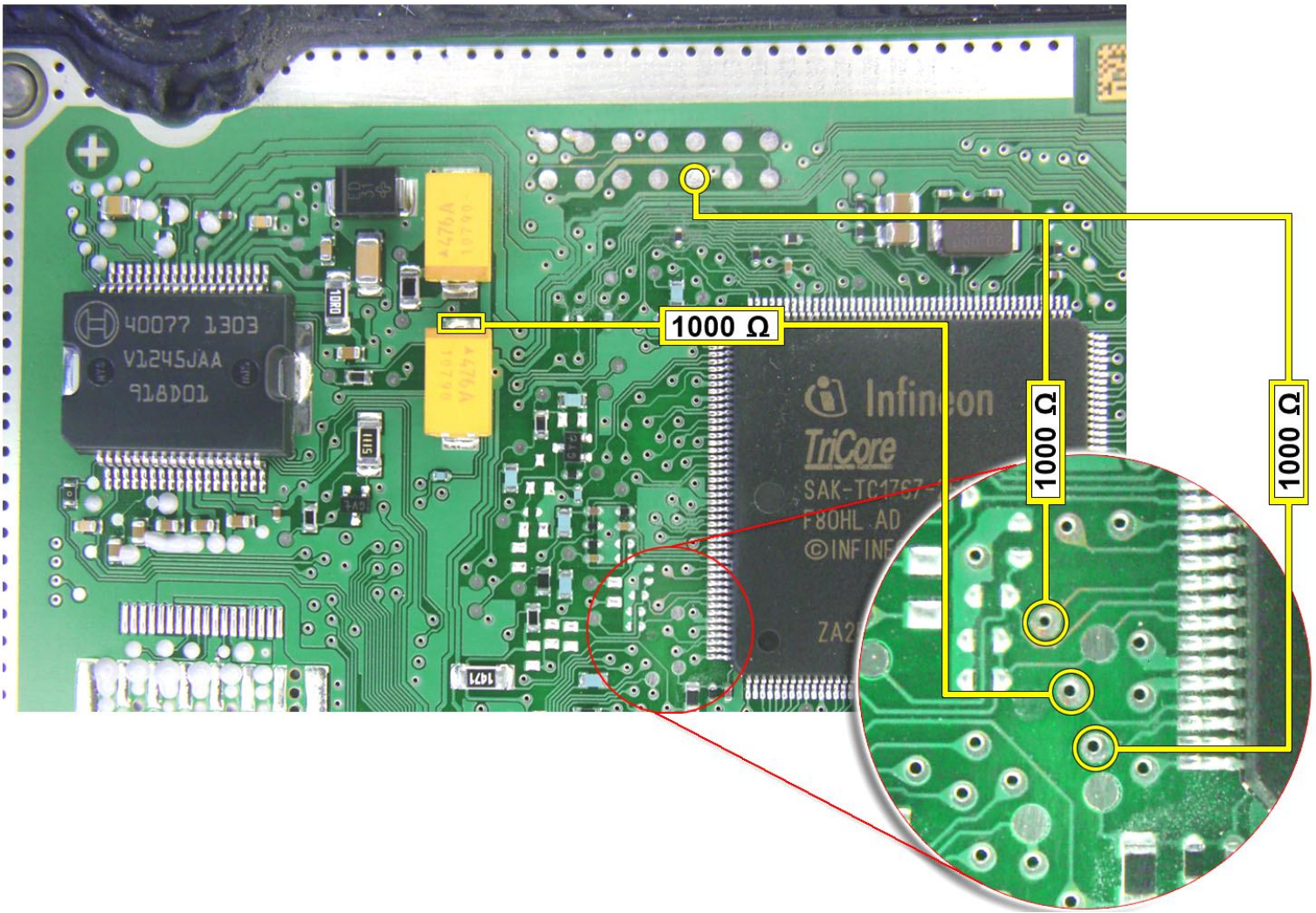
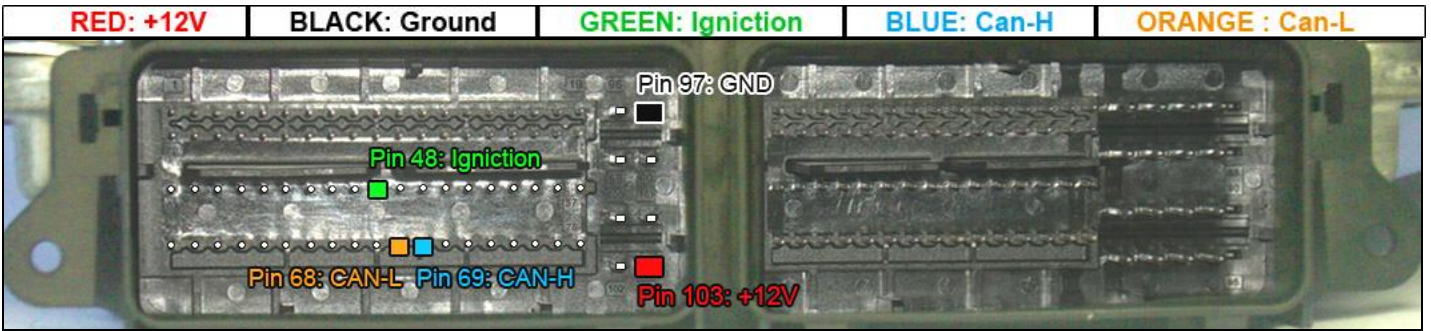


ECU ME17.8.5 - TC1766 Internal Flash



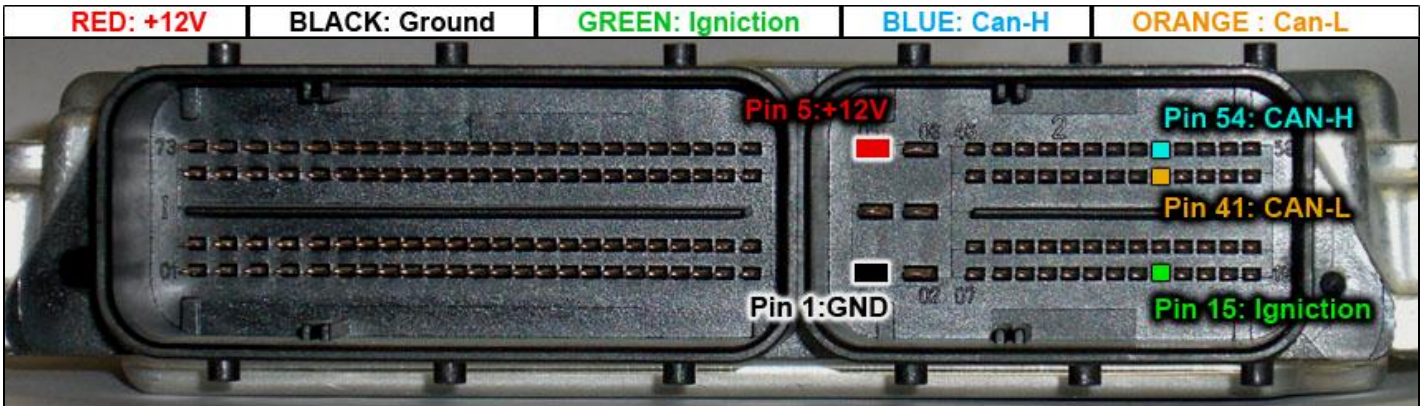


ECU FOMOCO BOSCH MED17 - TC1767 Internal Flash *



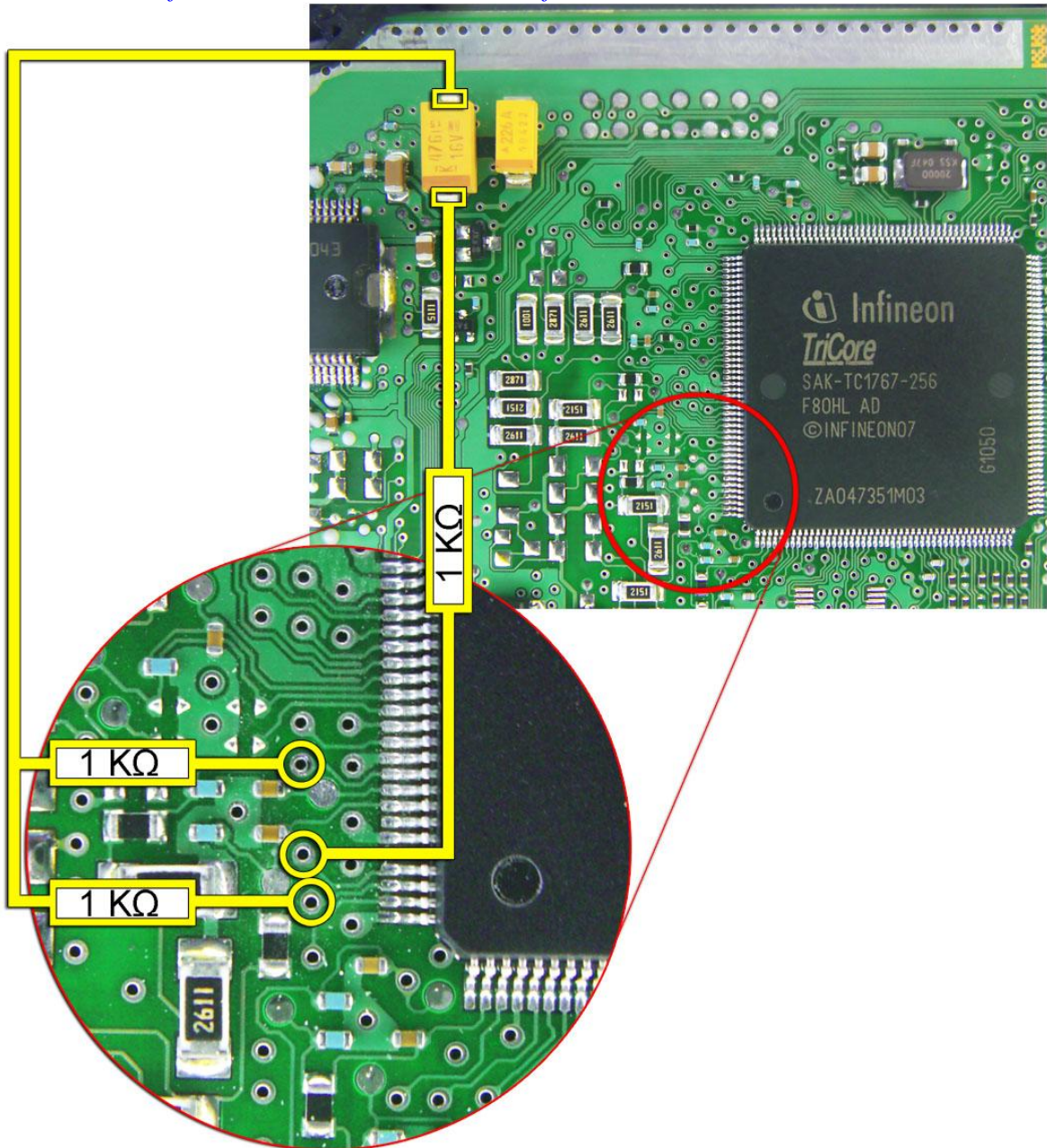


ECU FOMOCO BOSCH MED17.2 - TC1767 Internal Flash



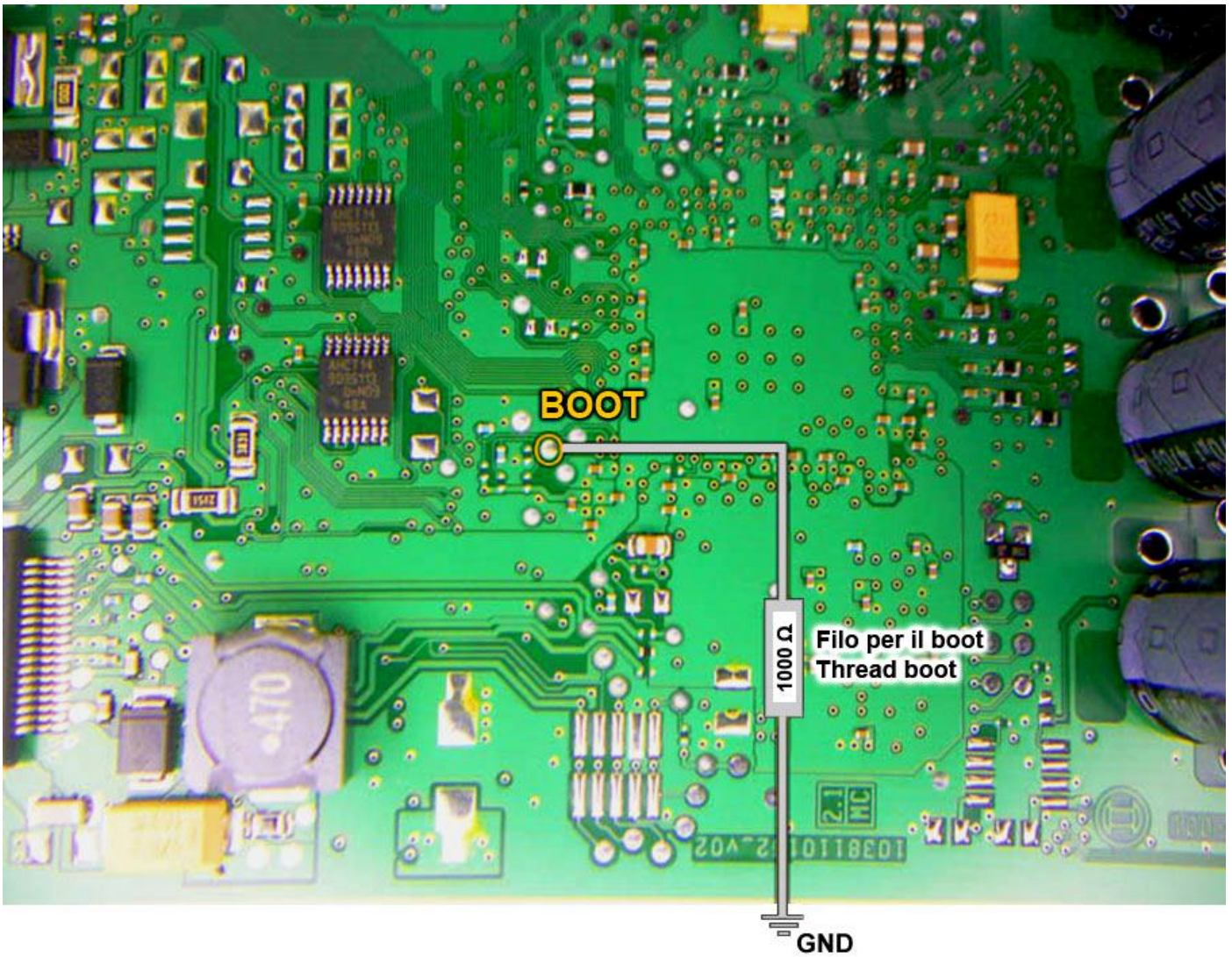
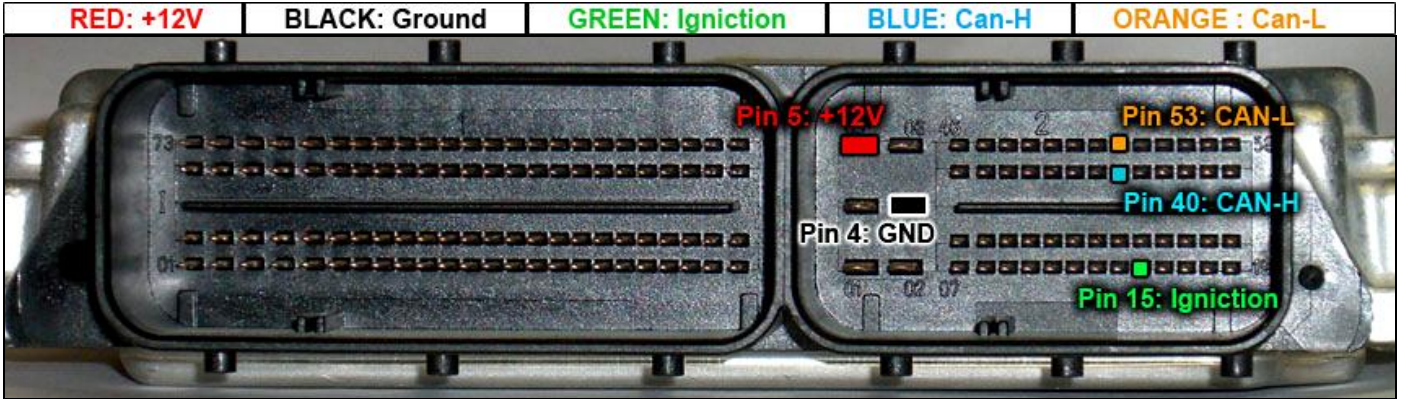
Questa centralina si mette in Boot Mode utilizzando 3 resistenze da 1000 Ohm:

This is the Boot Mode for this ECU used 3 resistance of 1000 Ohm:



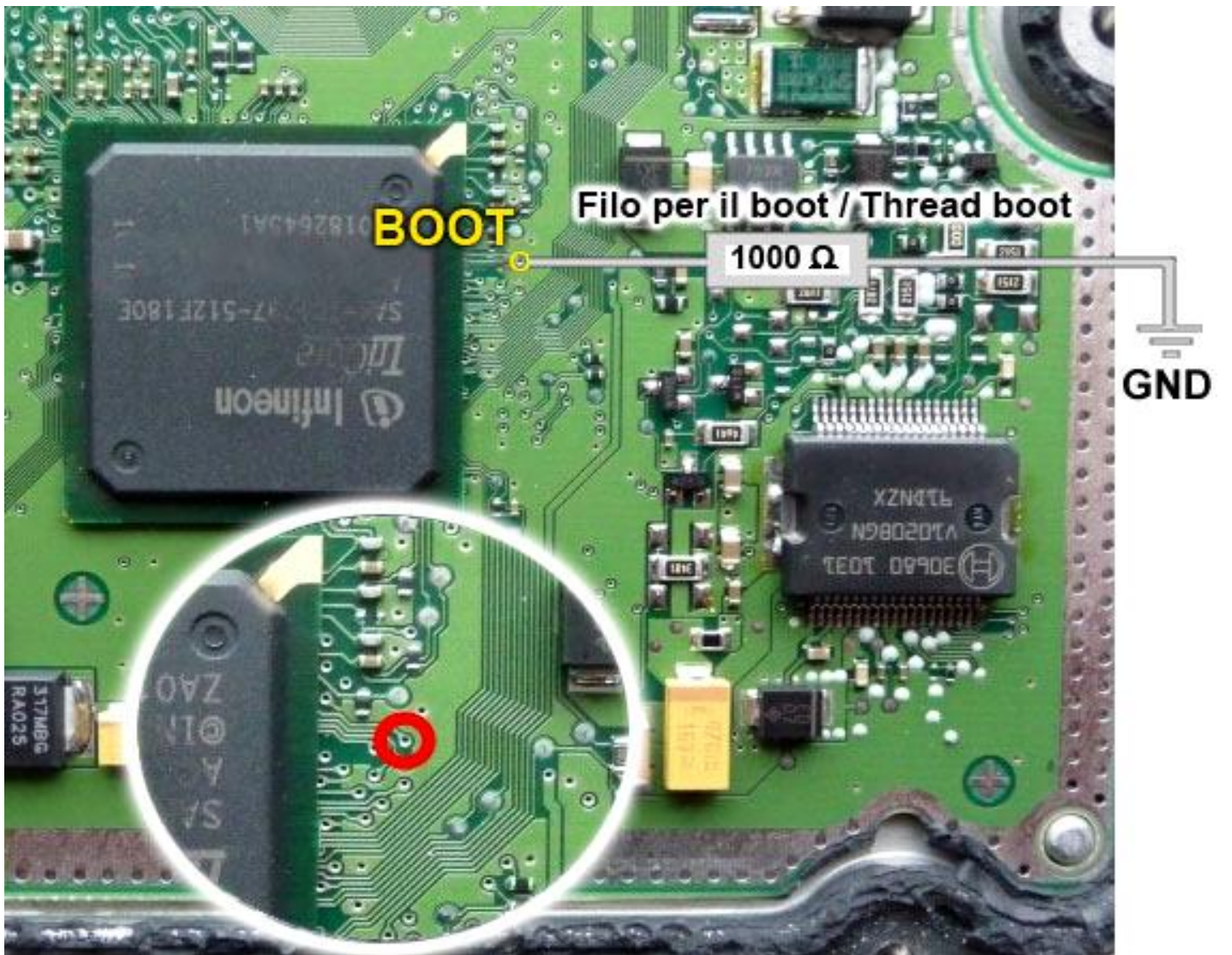
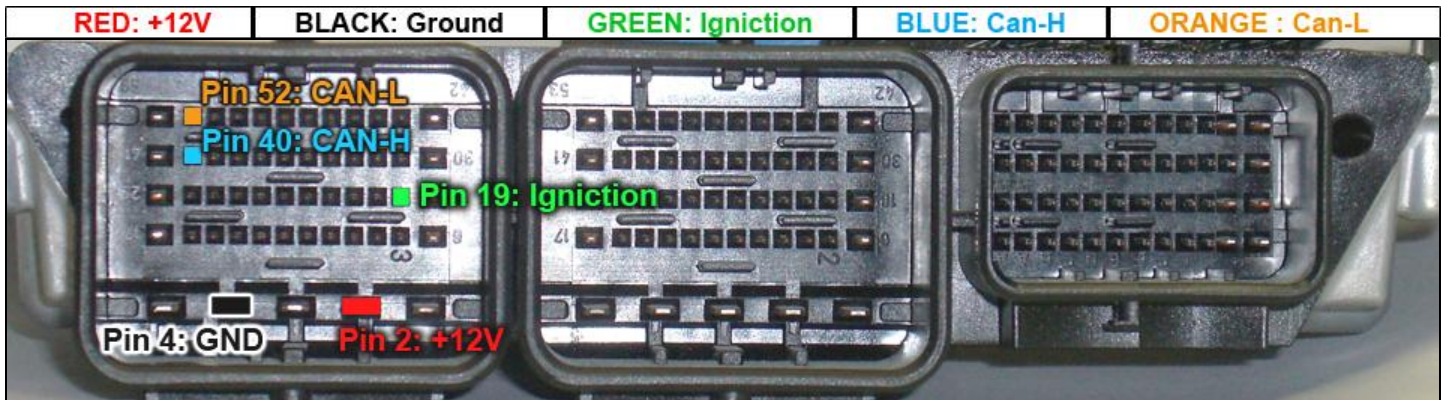


ECU EDC17 CP11 TC1796 Int.-Ext. Flash - 3.0 V6



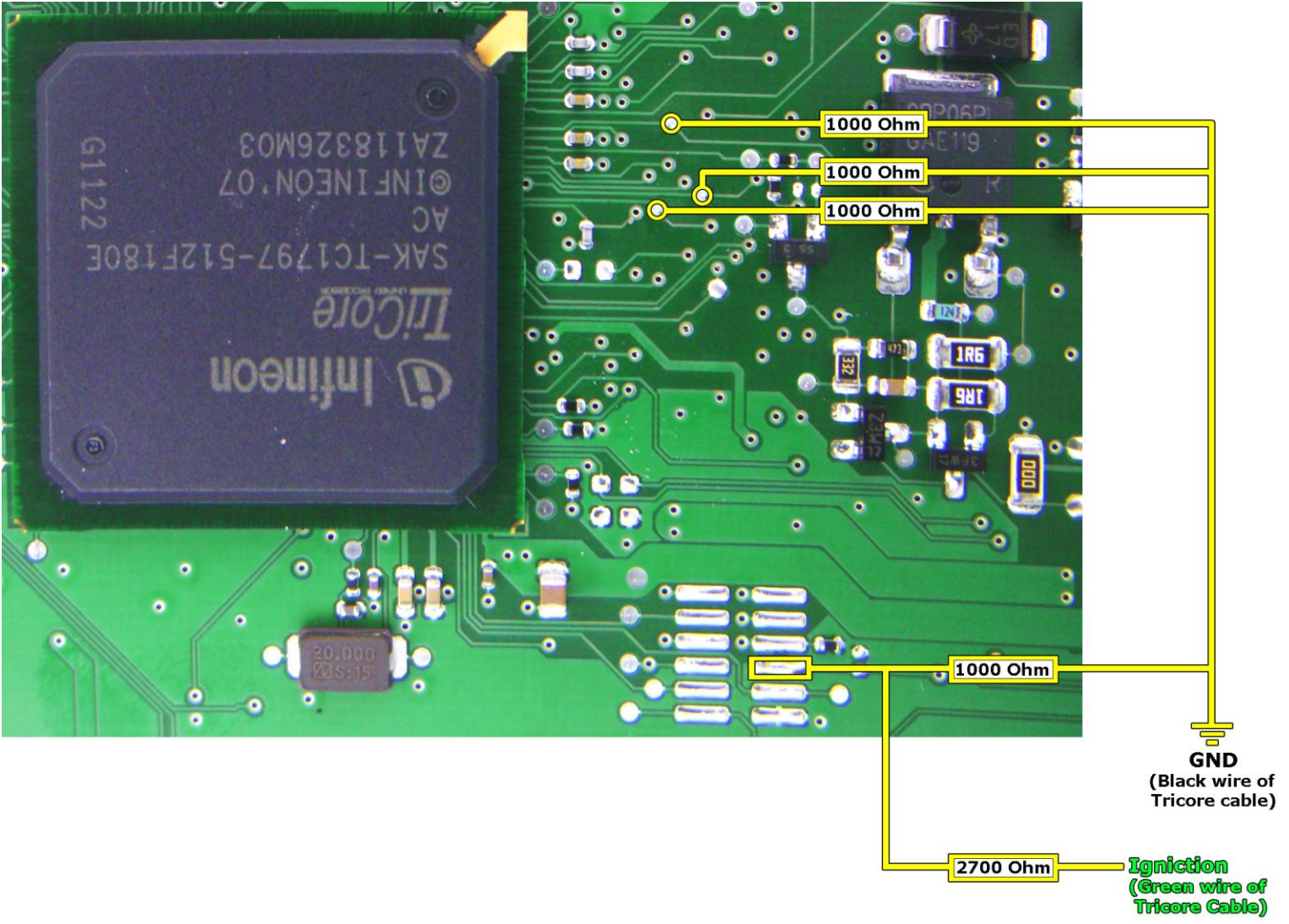
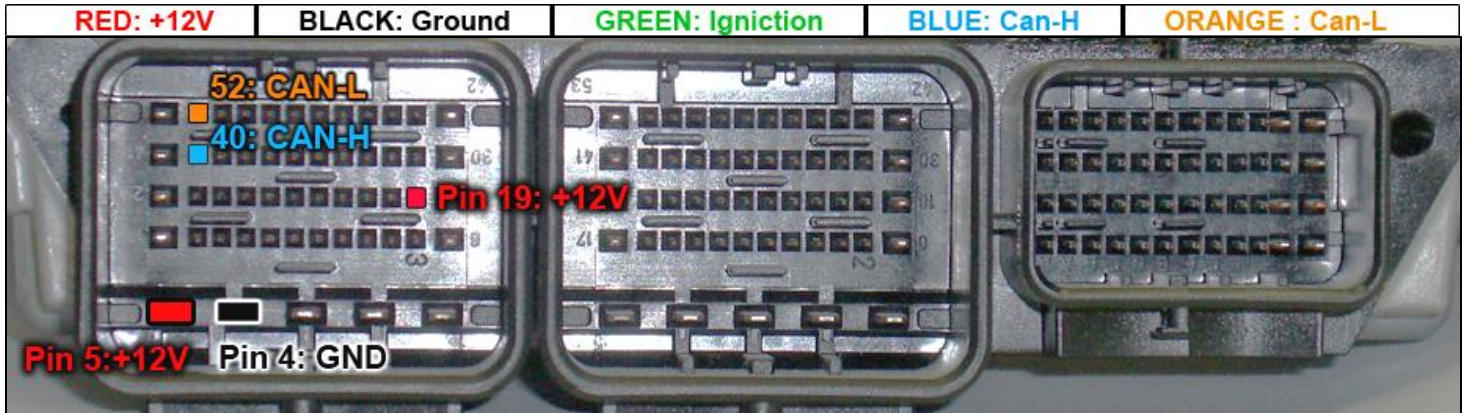


ECU EDC17 CP42 - TC1797 Internal Flash



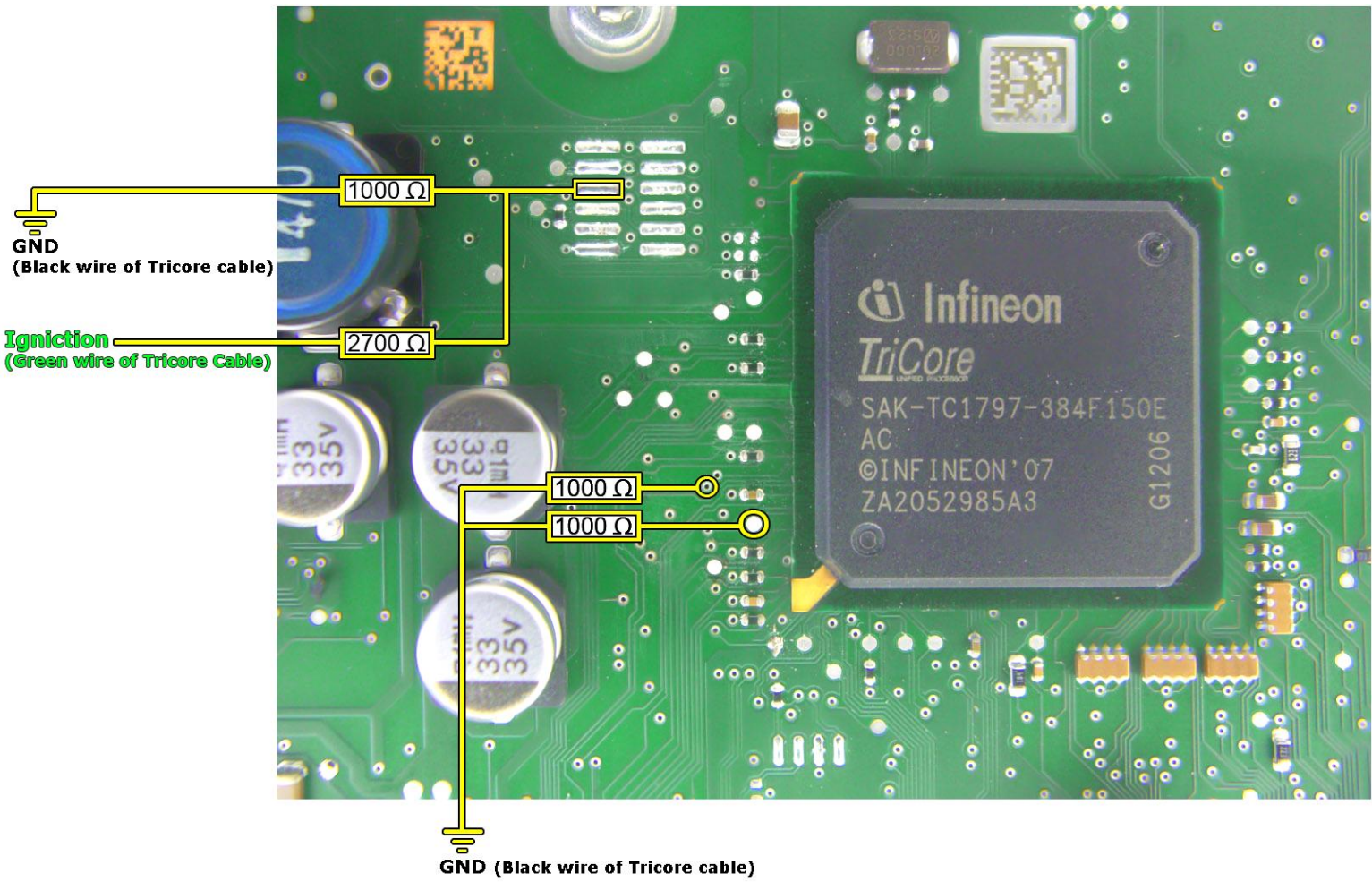
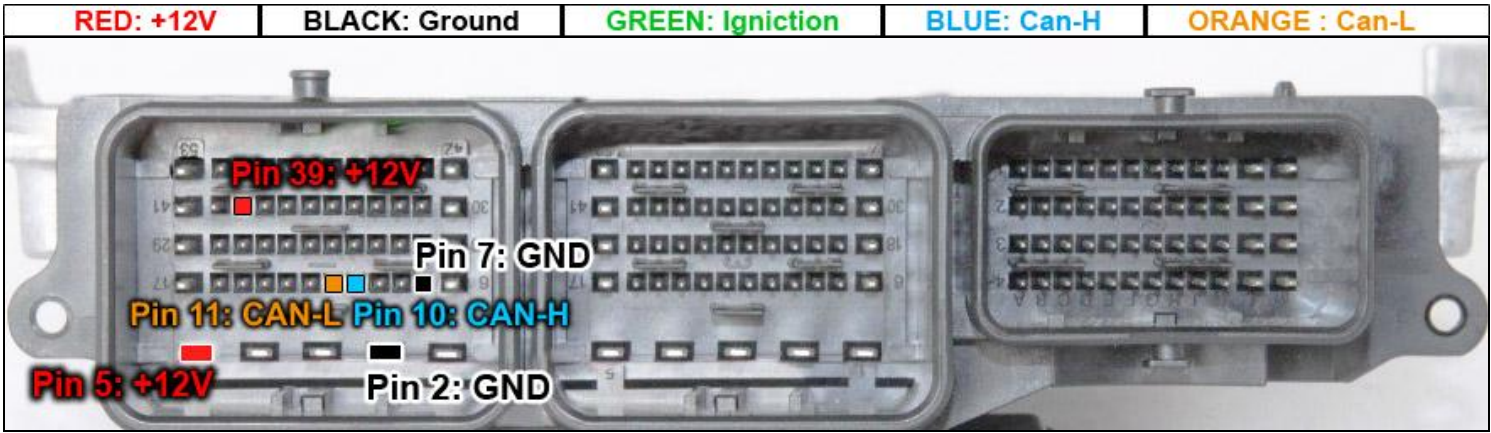


**ECU Siemens Continental SID 807
TC1797 Internal Flash**





**ECU Siemens Continental SID 208
TC1797 Internal Flash**





HONDA

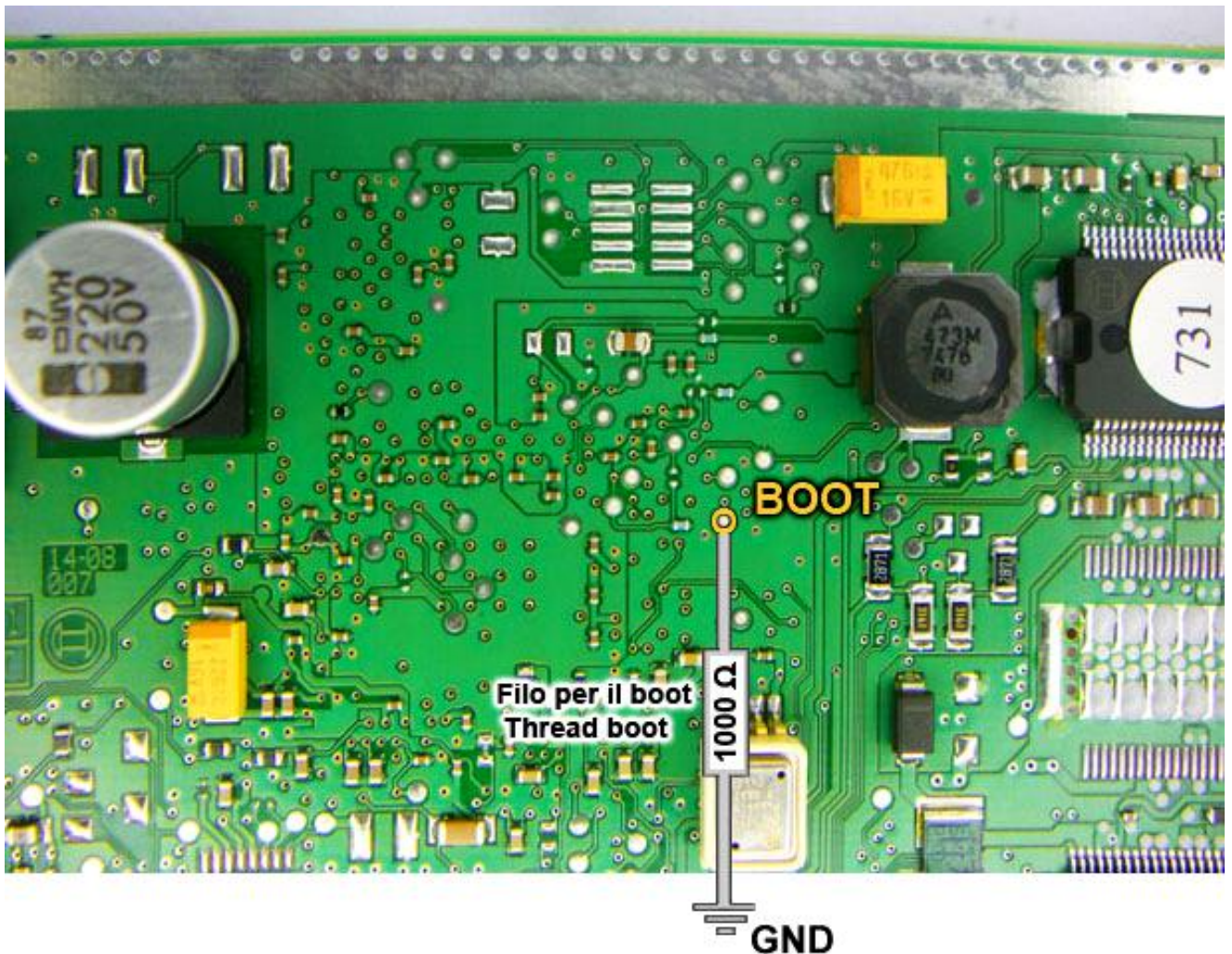
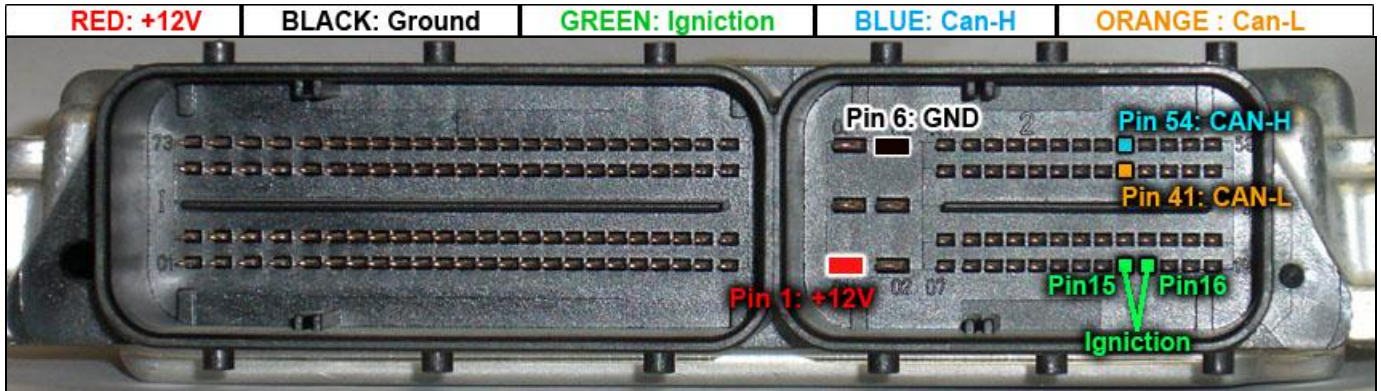
ECU EDC17 CP06 - TC1792 Internal Flash

Le ECU EDC17 CP06 Honda si possono porre in stato di Boot in due modi.

The ECU EDC17 CP06 Honda could be set in Boot mode in two ways.

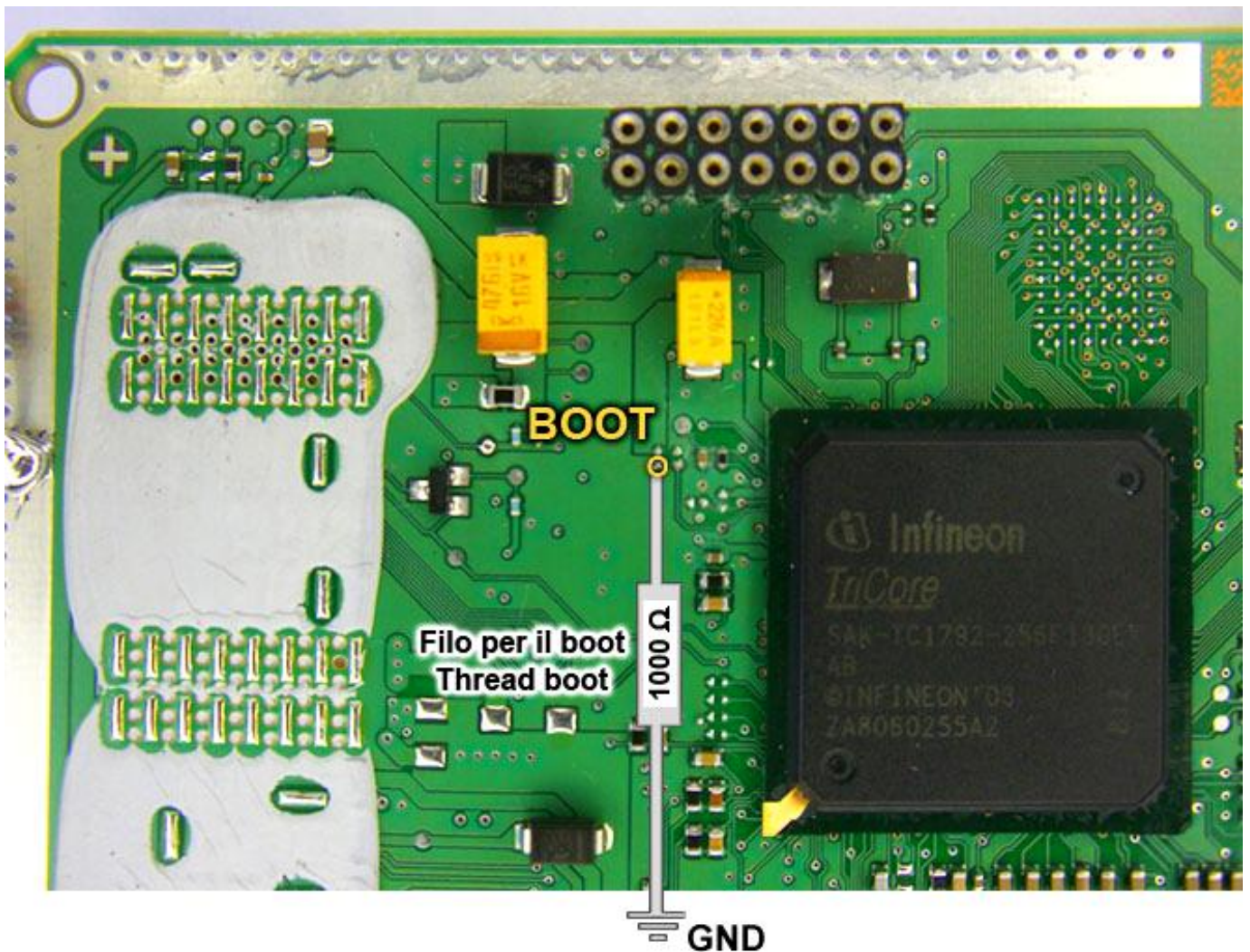
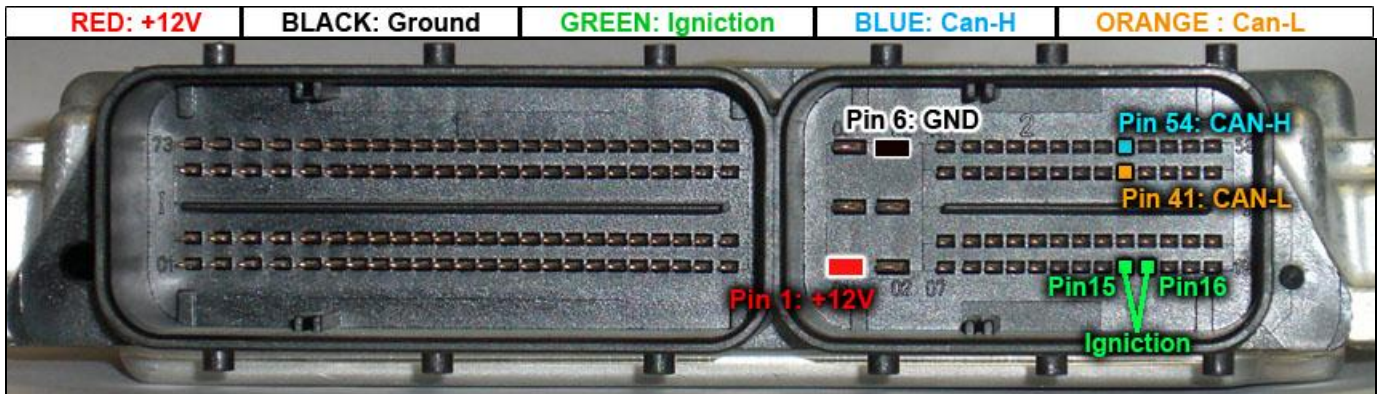
1° MODO:

Parte superiore della Ecu / *Above the Ecu:*



2° MODO:

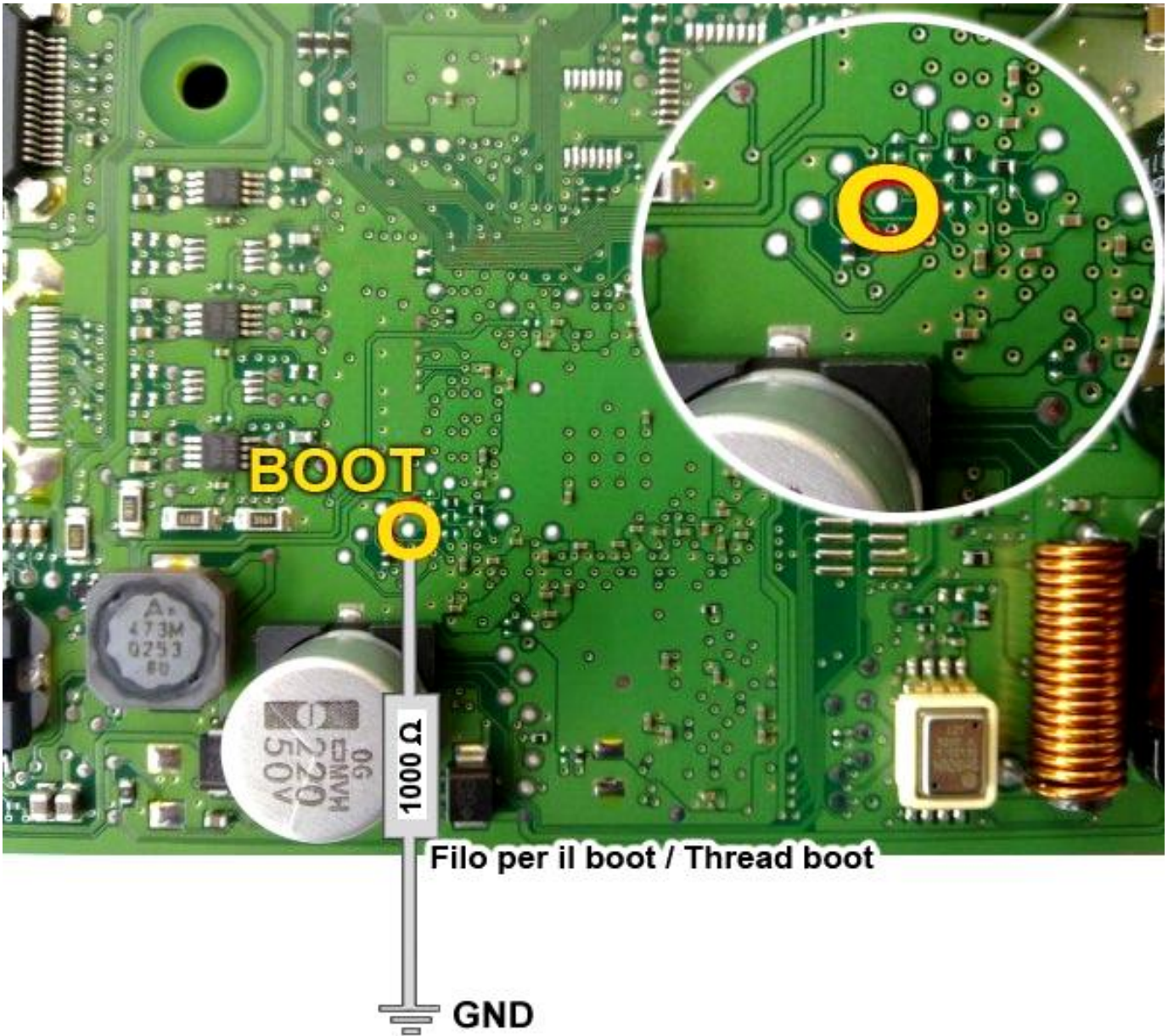
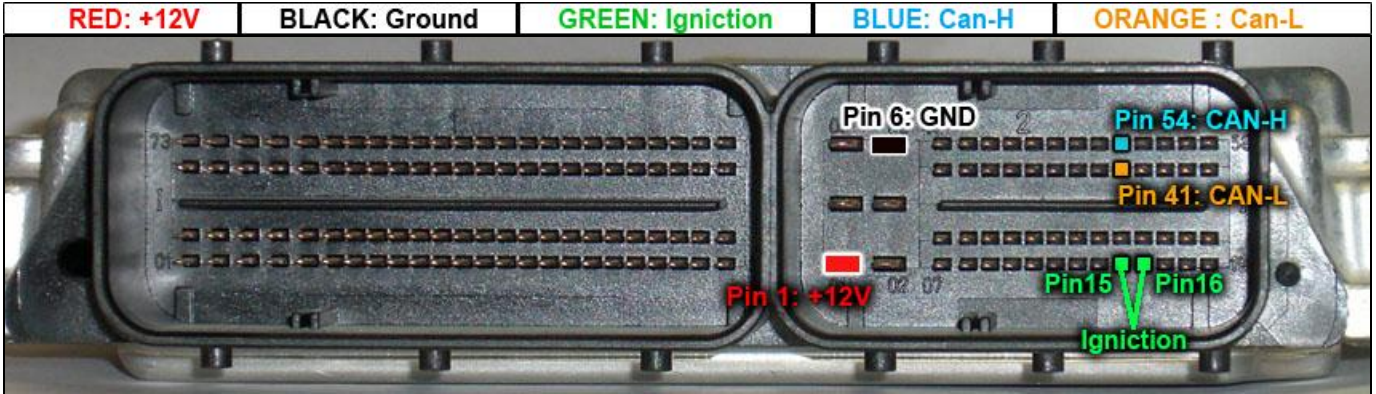
Parte inferiore della ECU / *Under the ECU:*

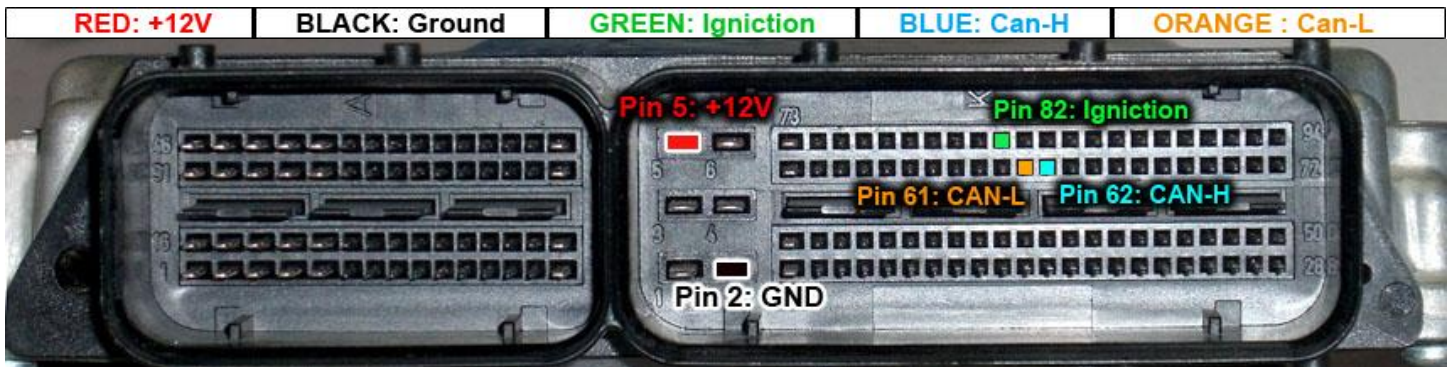




HONDA

ECU EDC17 CP16 - TC1796 Internal Flash

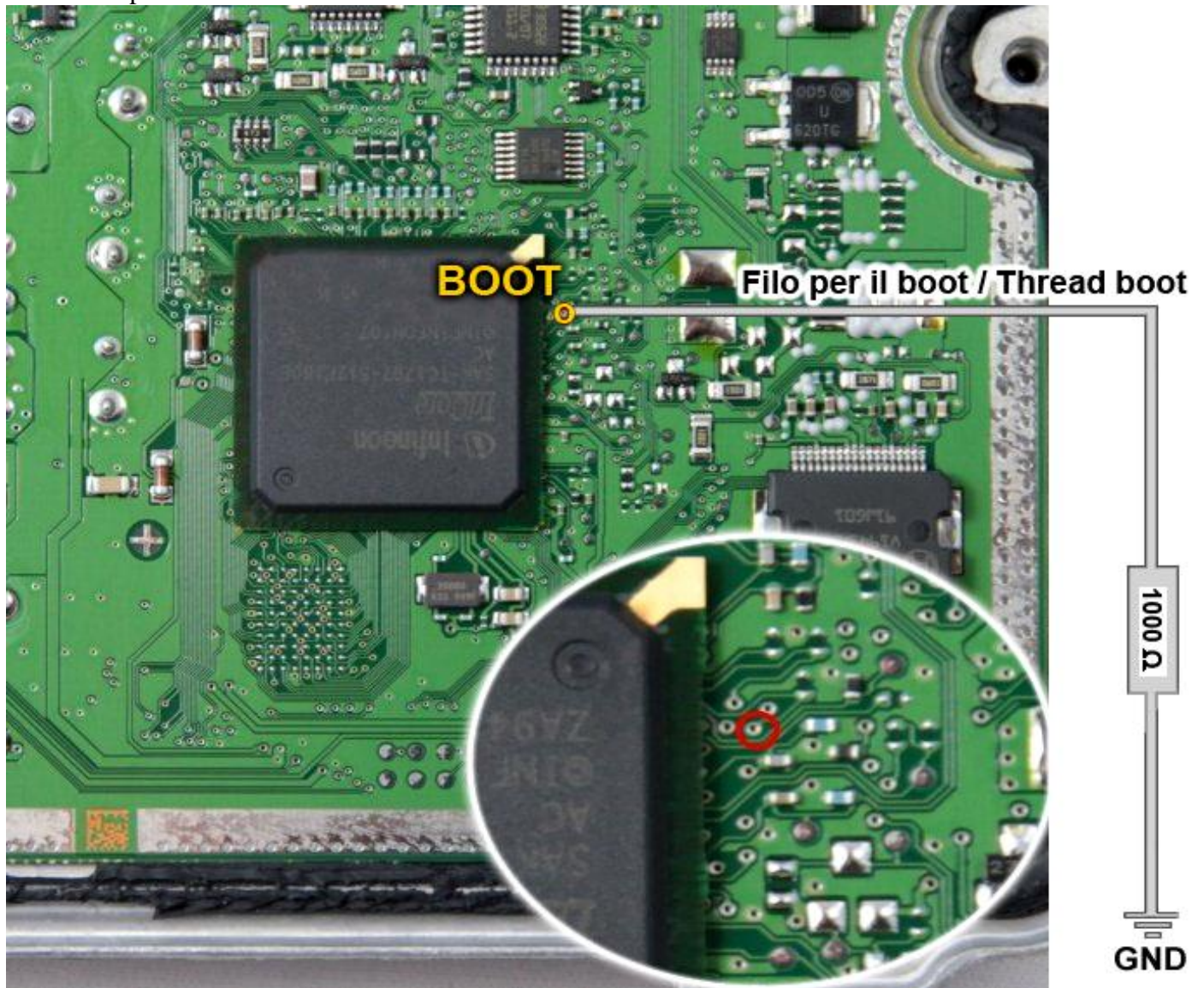




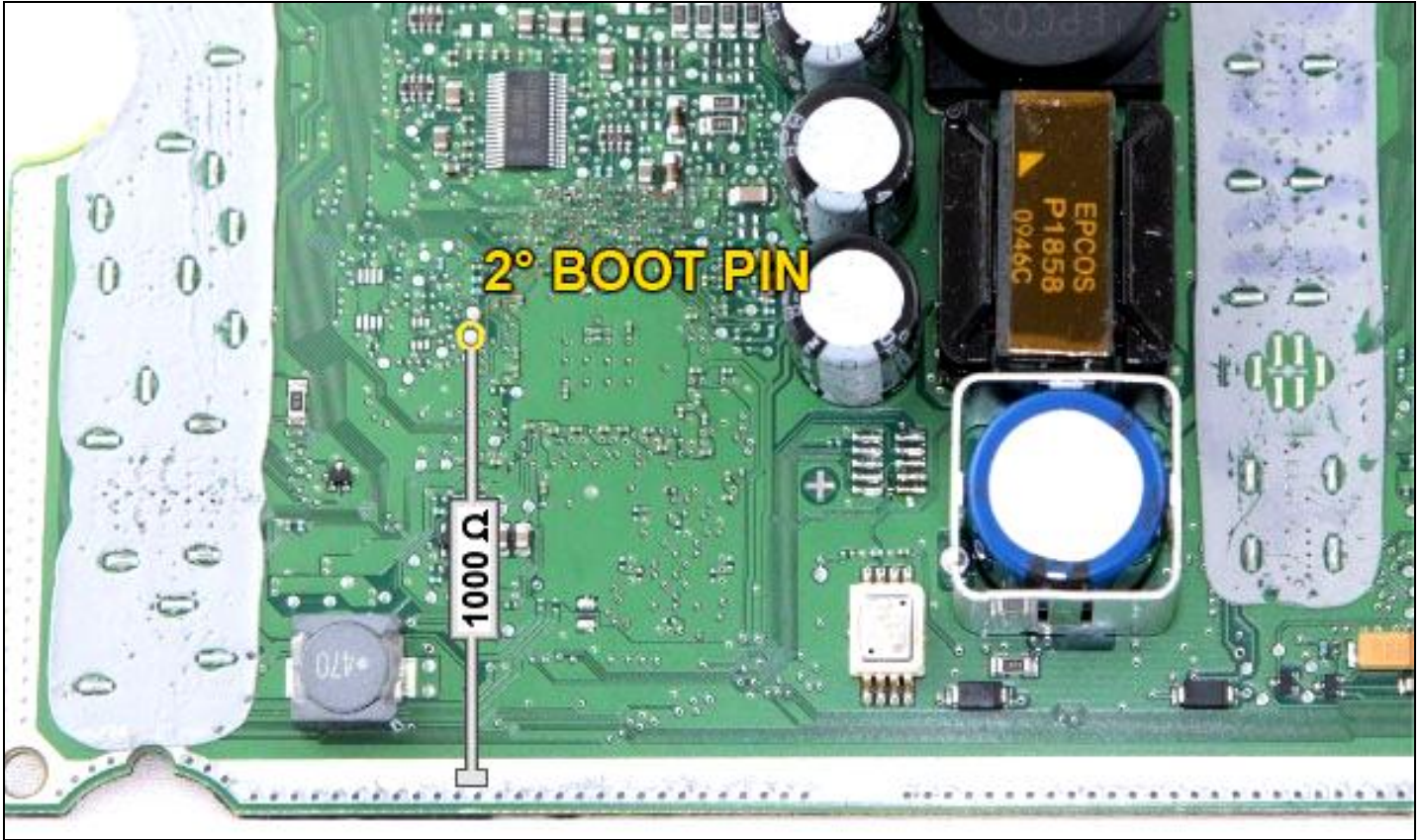
Questa centralina ha 2 pin di boot, uno sulla parte superiore e l'altro sulla parte inferiore della scheda; è possibile scegliere quale dei due pin utilizzare per porre la centralina in Boot mode.

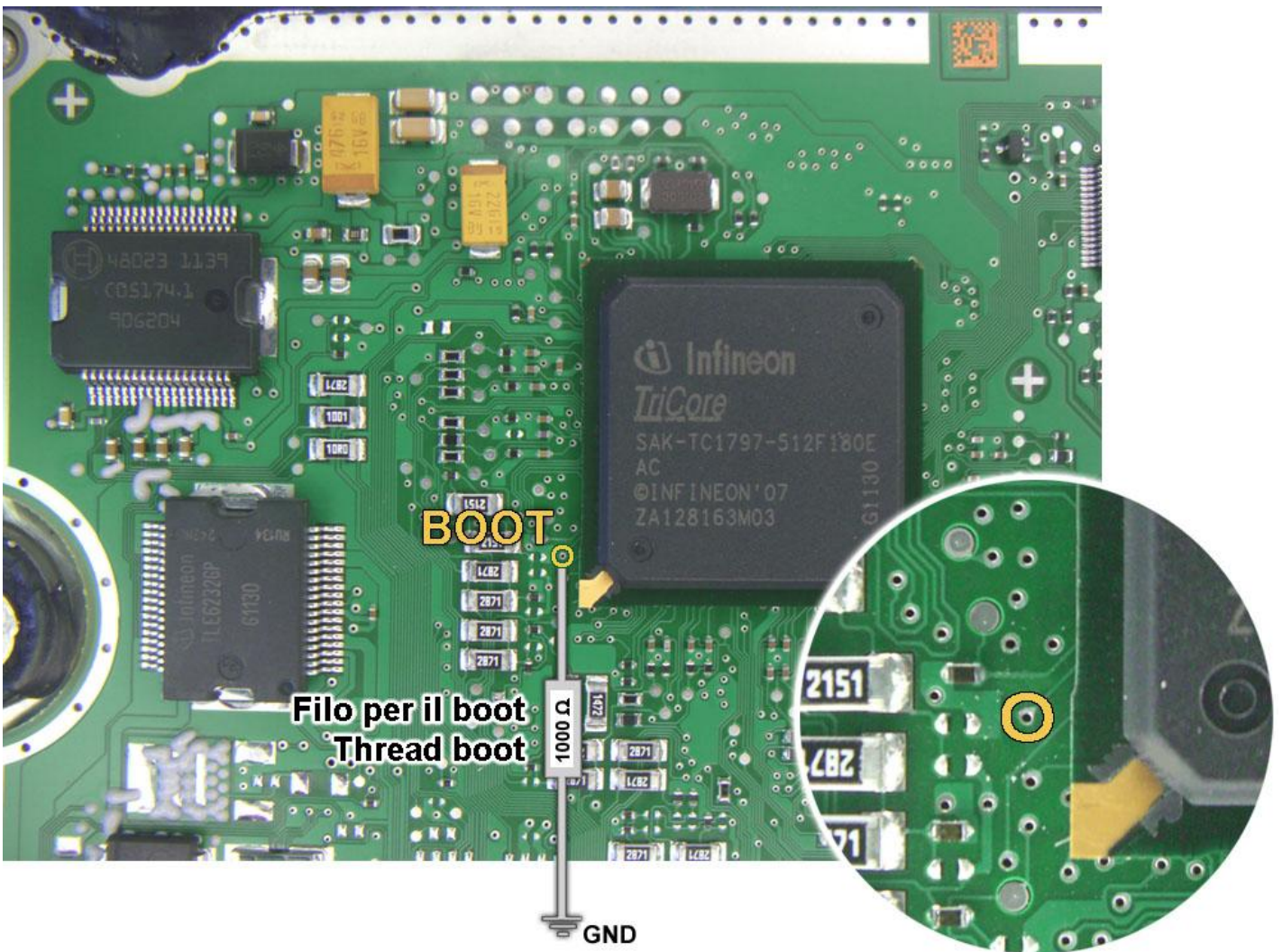
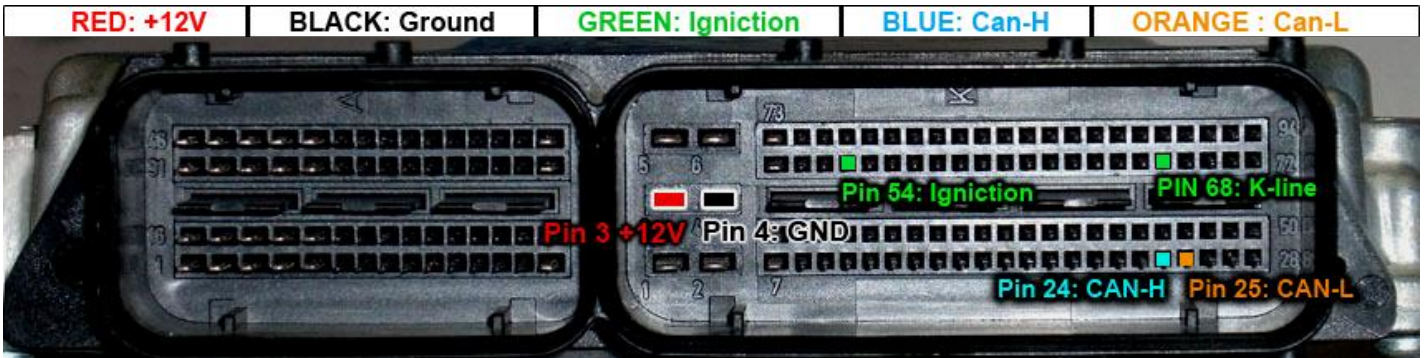
This Ecu has 2 pin of boot, one on the superior part and another on the inferior part of the card; you can choose which pin use for set the Ecu in Boot mode.

1 - Parte superiore della Ecu / Above the Ecu:



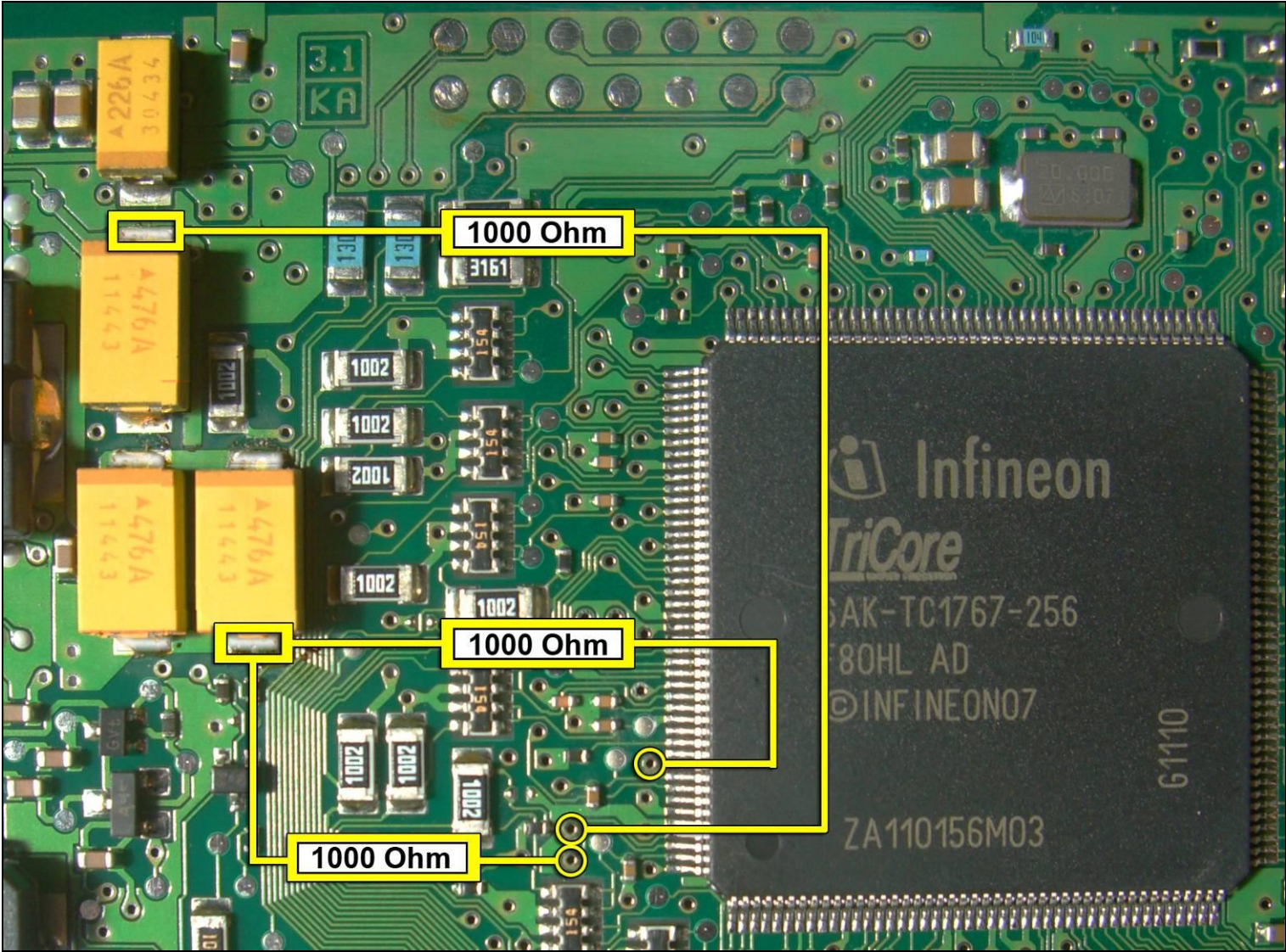
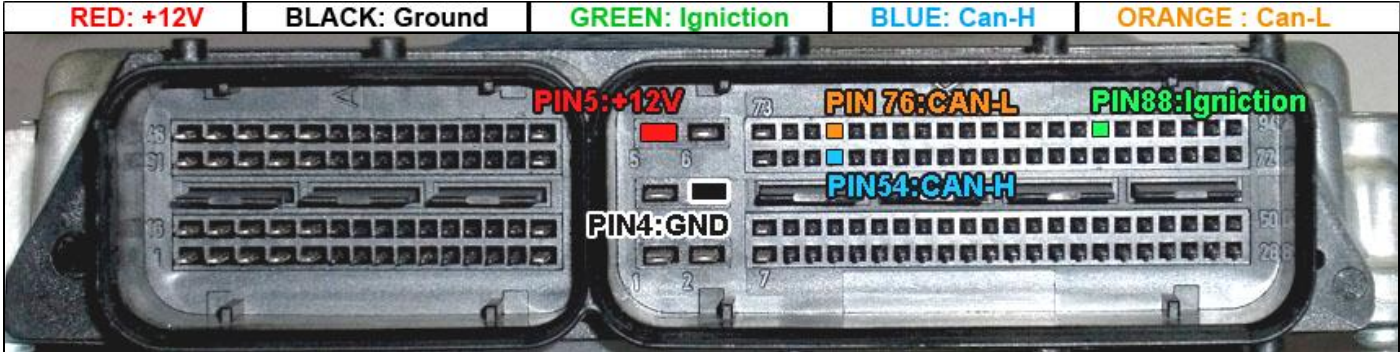
2 - Parte inferiore della ECU / *Under the ECU:*

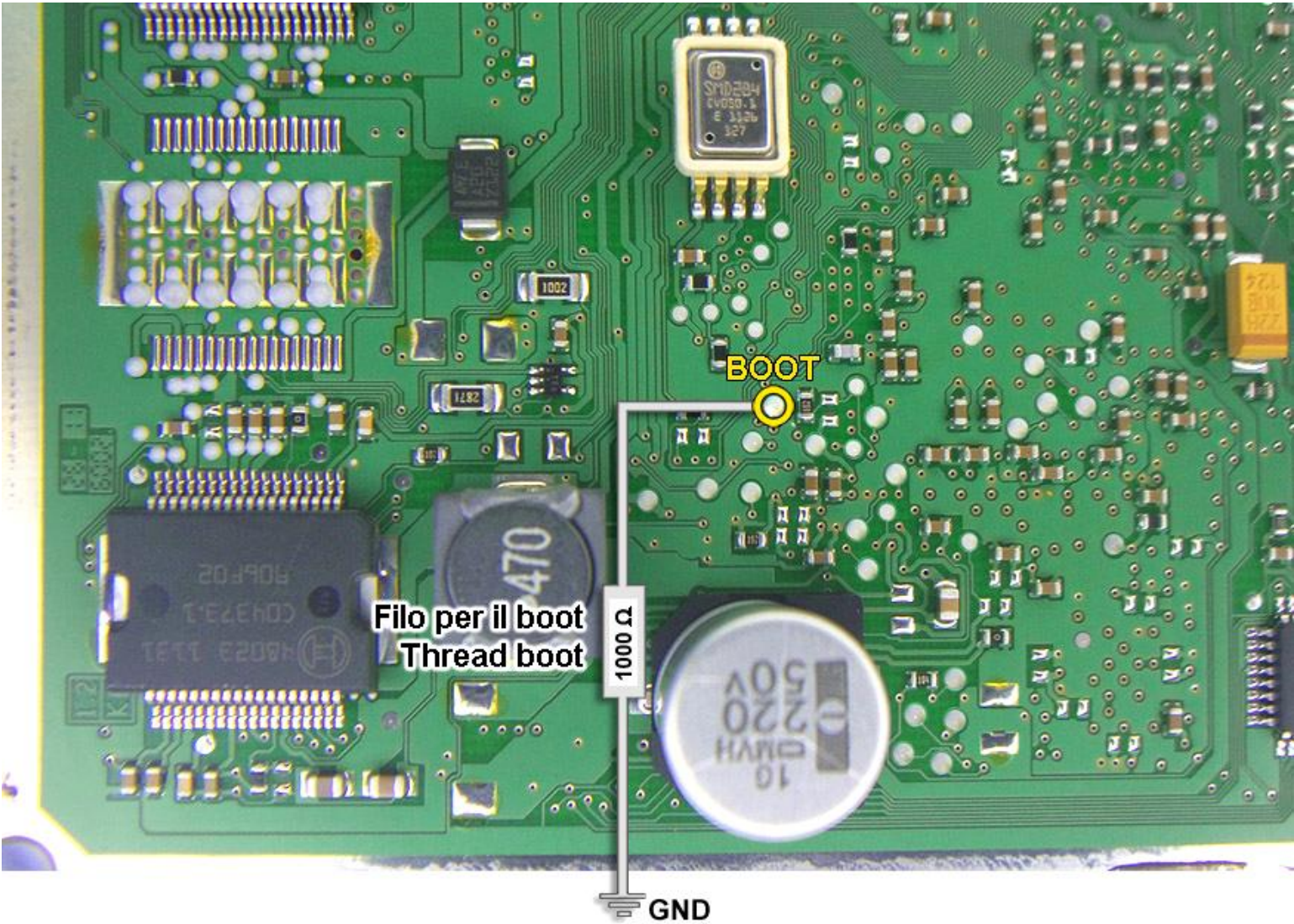
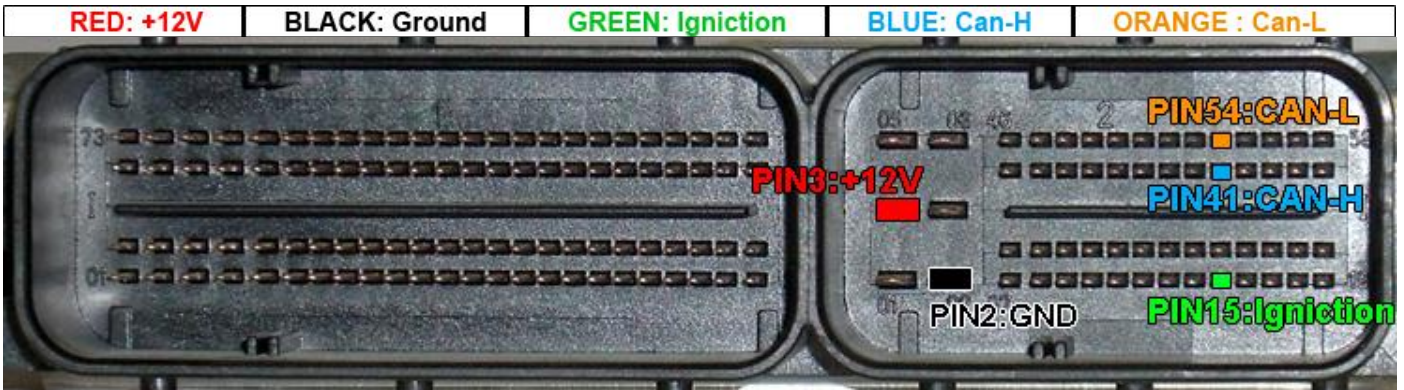


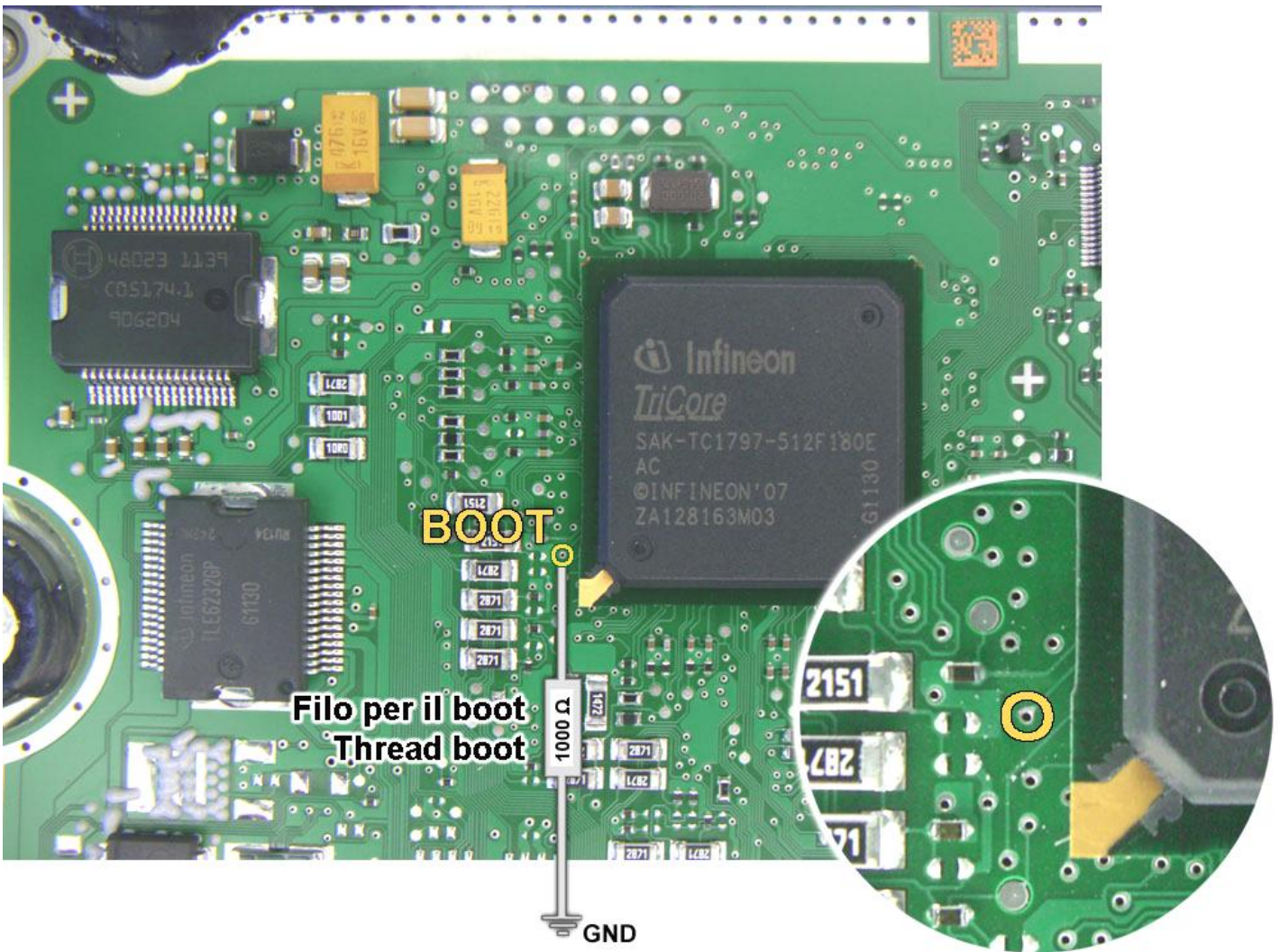
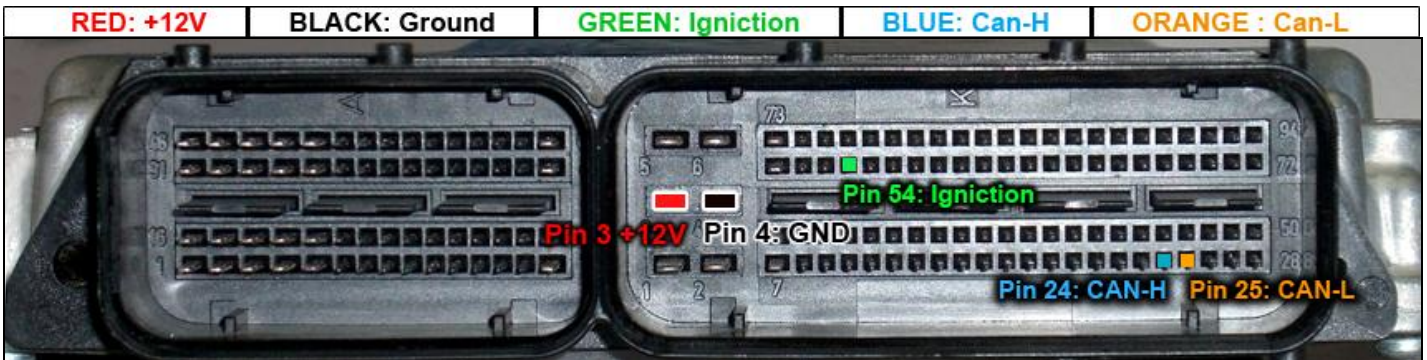




ECU EDC17 CV54 - TC1767 - Internal Flash

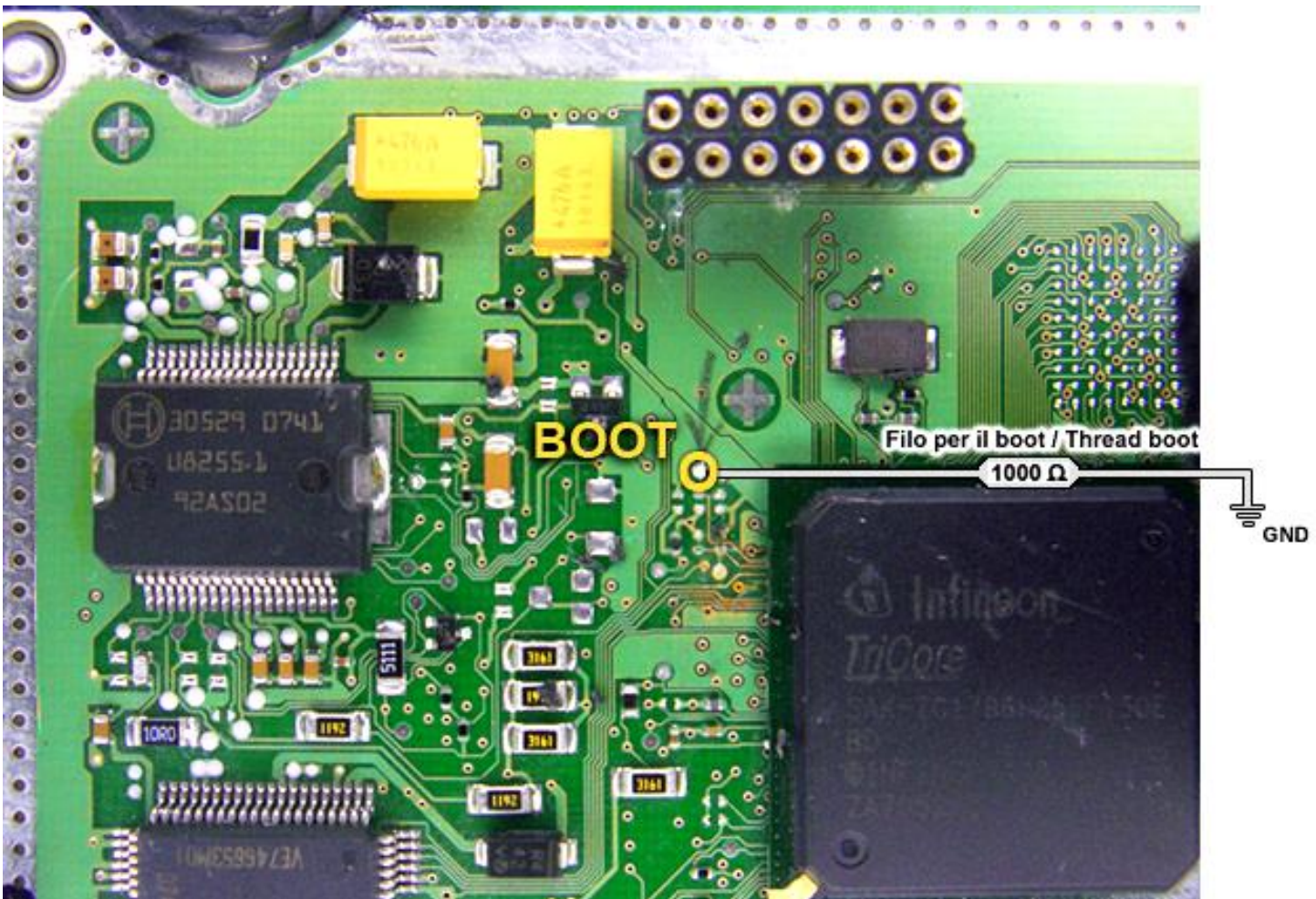




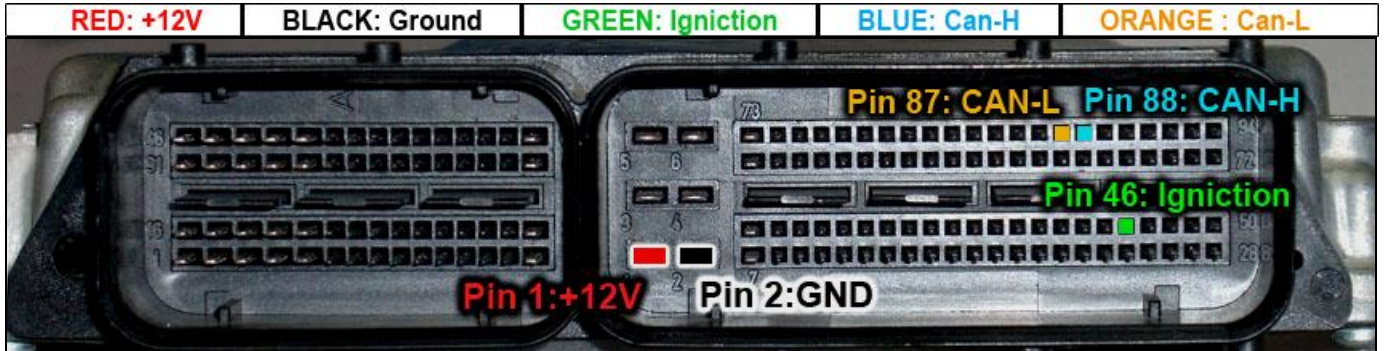


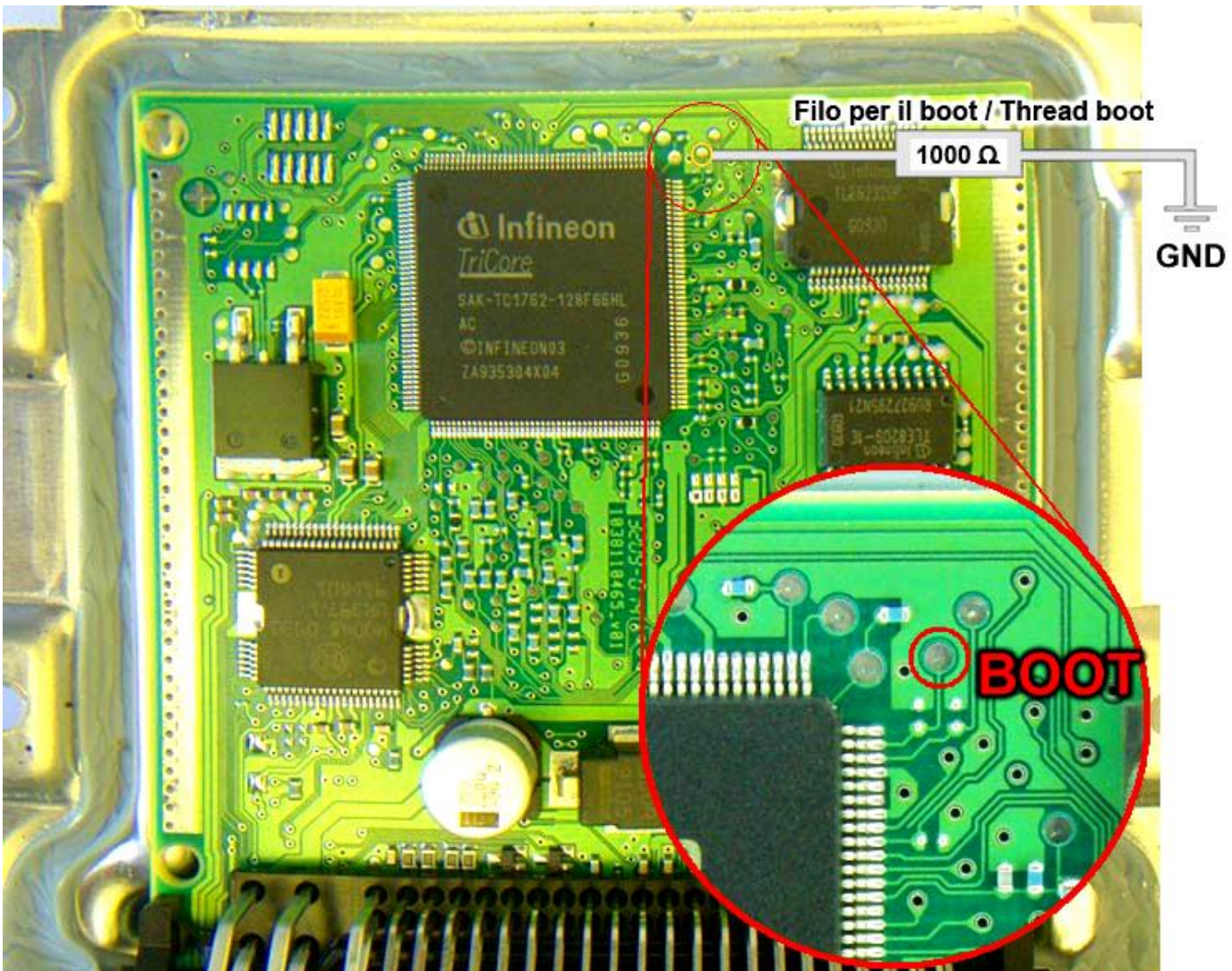
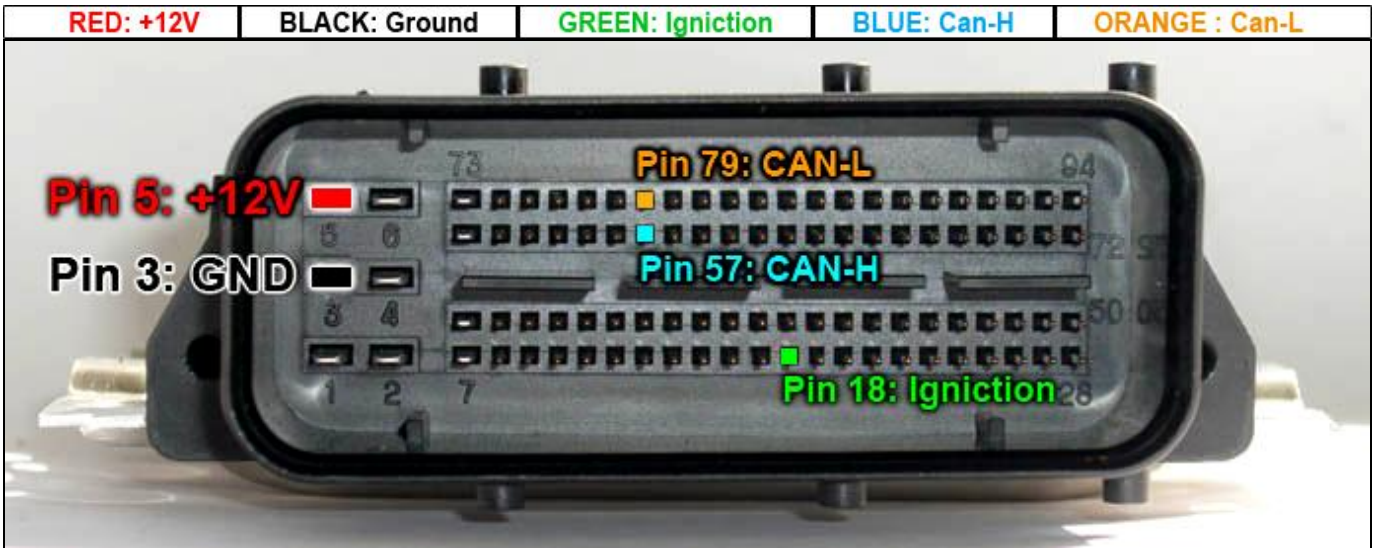


ECU EDC17 - TC1796 Internal Flash

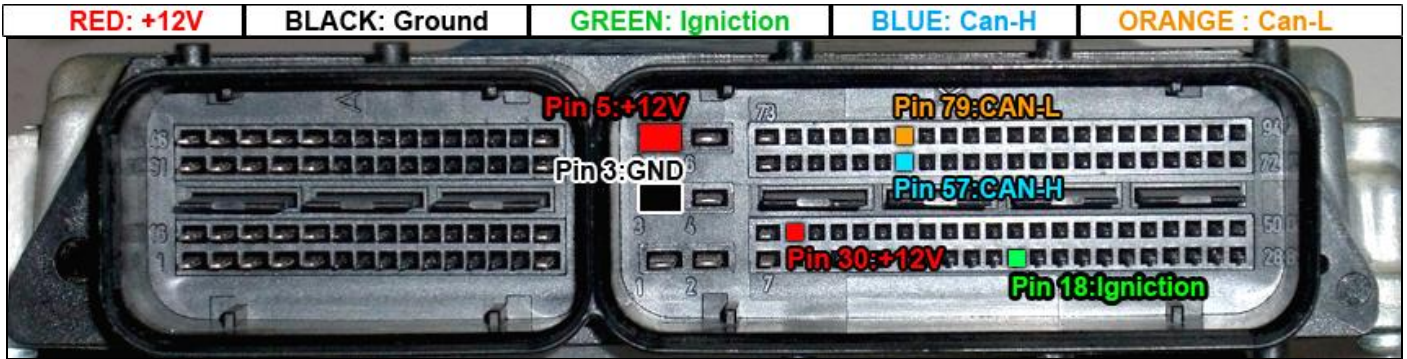


ECU EDC17C08 - TC1766 Internal Flash

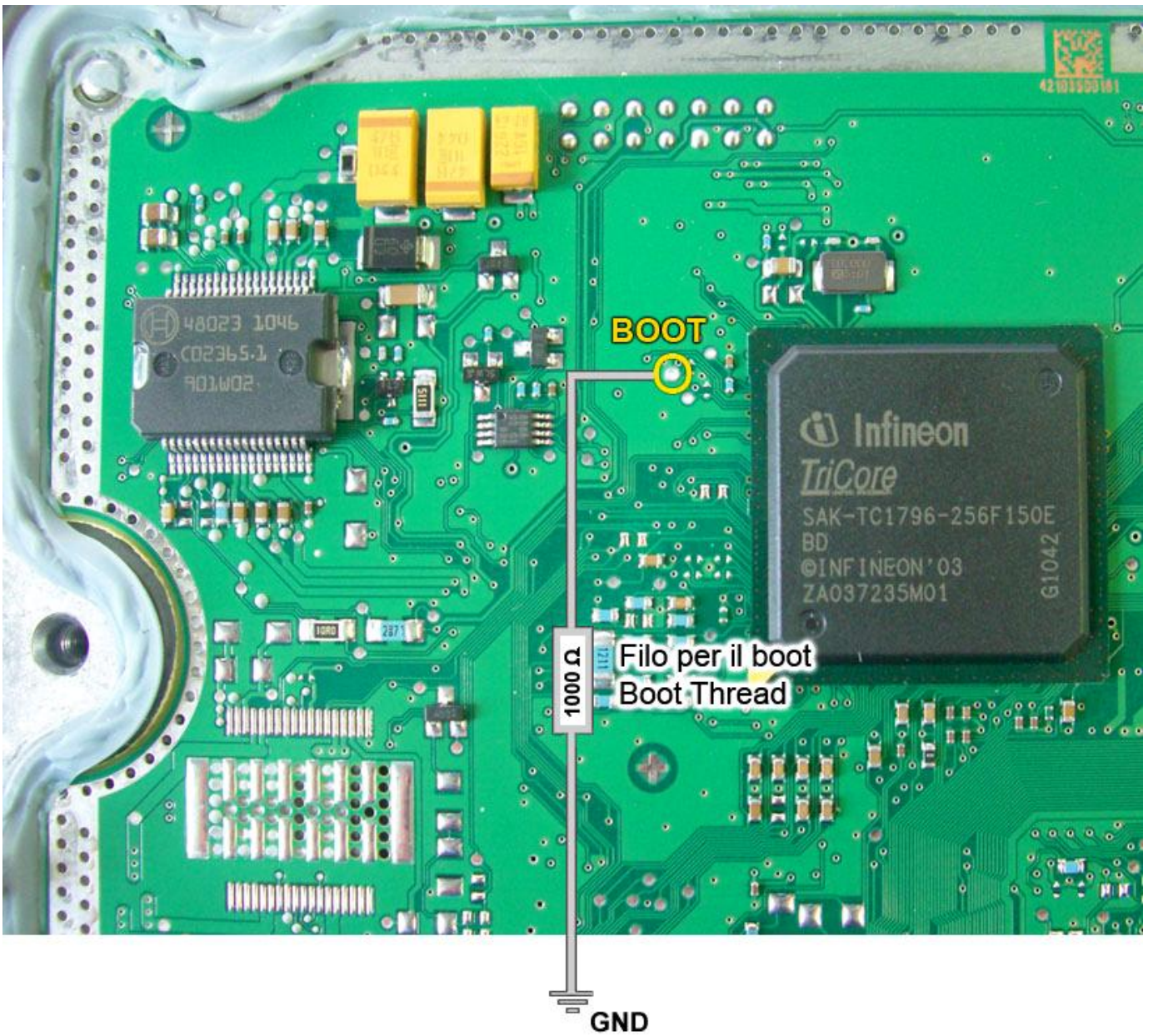
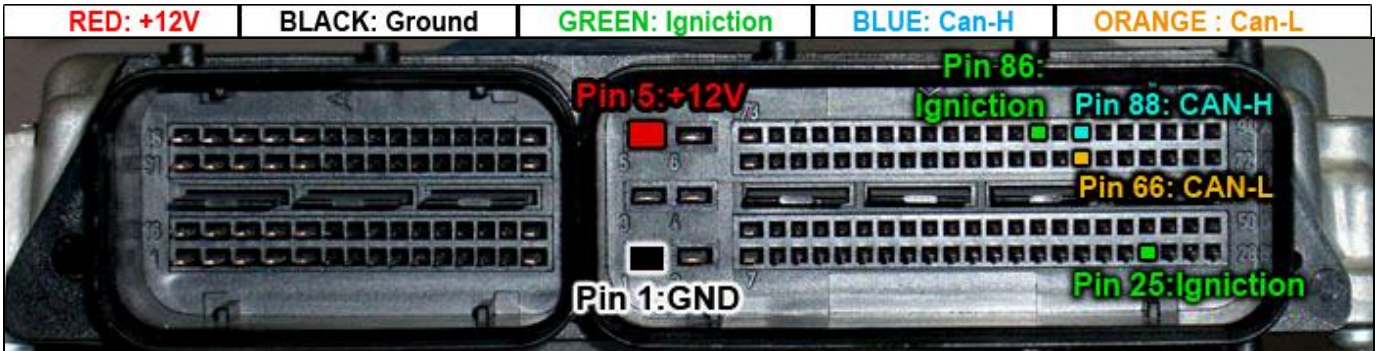




ECU MEG17.9.12 - TC1762 Internal Flash

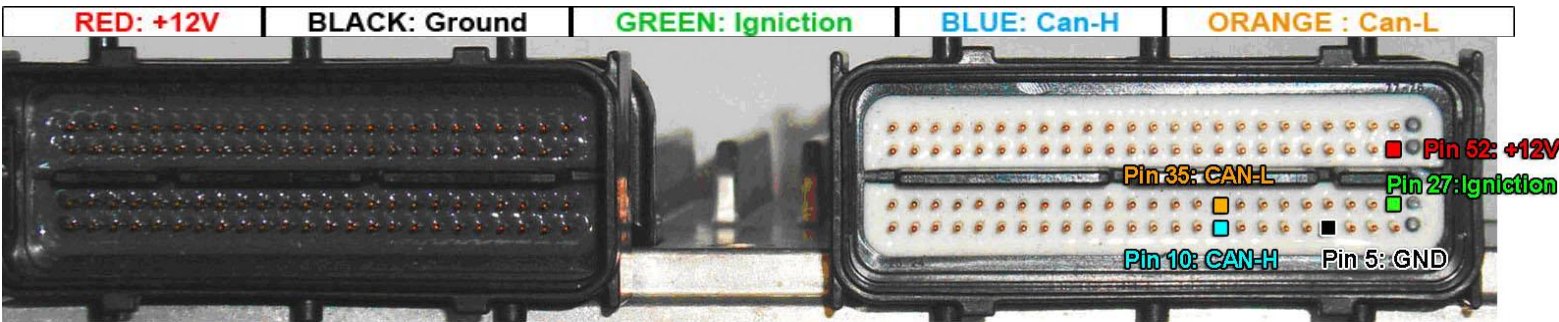


ECU KEFICO ME17.9.1 - TC1796 Internal Flash





ECU Delphi MT86 - TC1766 Internal Flash



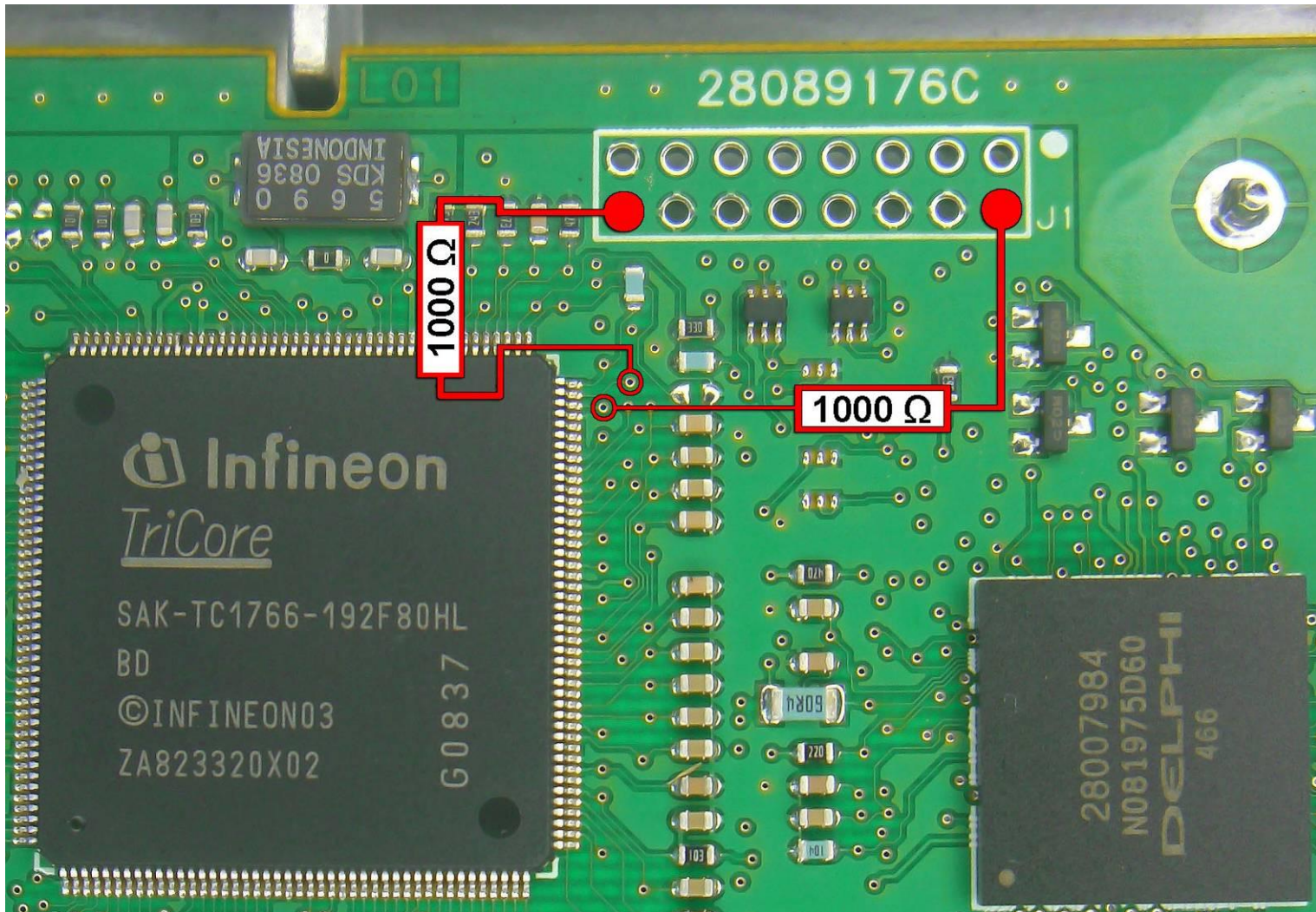
1° STEP:

Sollevare il pin del processore indicato in figura / Lift the pin of the processor indicated in figure:



2° STEP:

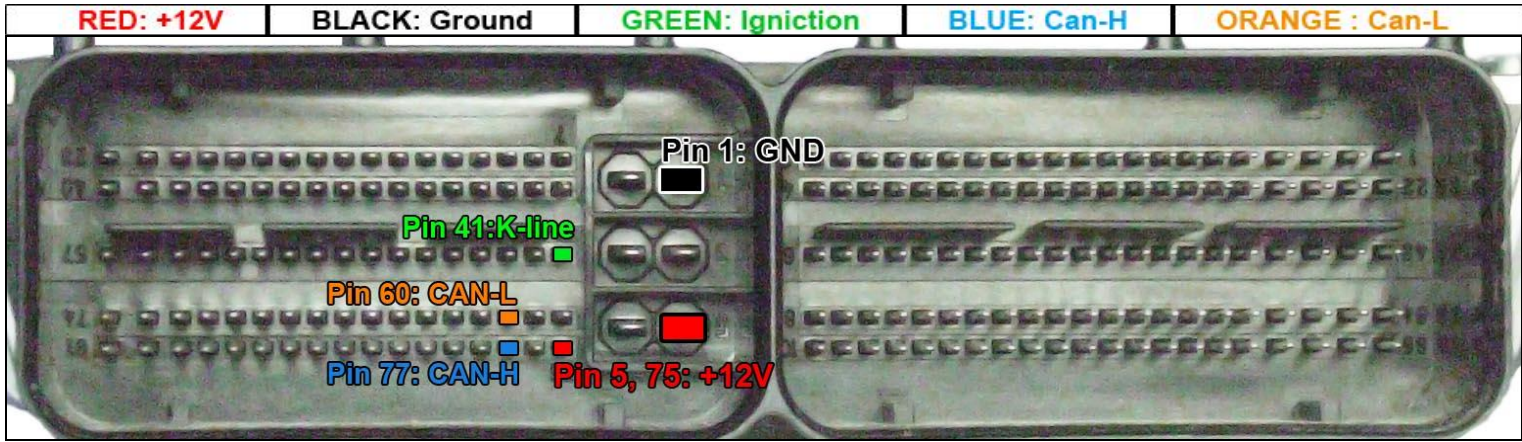
Saldare due resistenze da 1000 Ω come in figura / Solder two resistance of 1000 Ω like in figure:



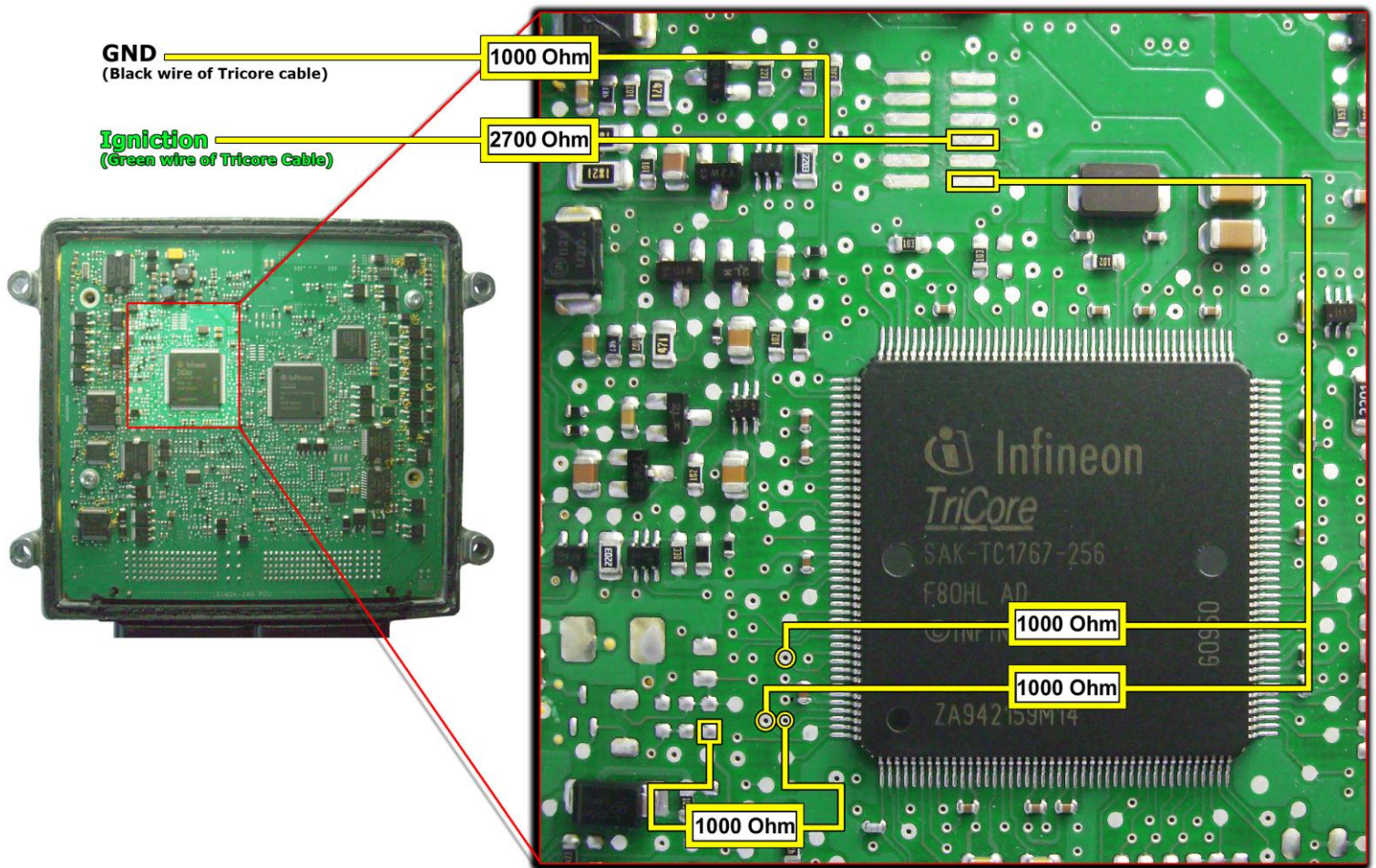
ATTENTION;

Prima di rimontare la ECU sulla vettura riabbassare il pin del processore alzato precedentemente.
Before climb on the ECU in the car lower the pin of the lifted processor previously.

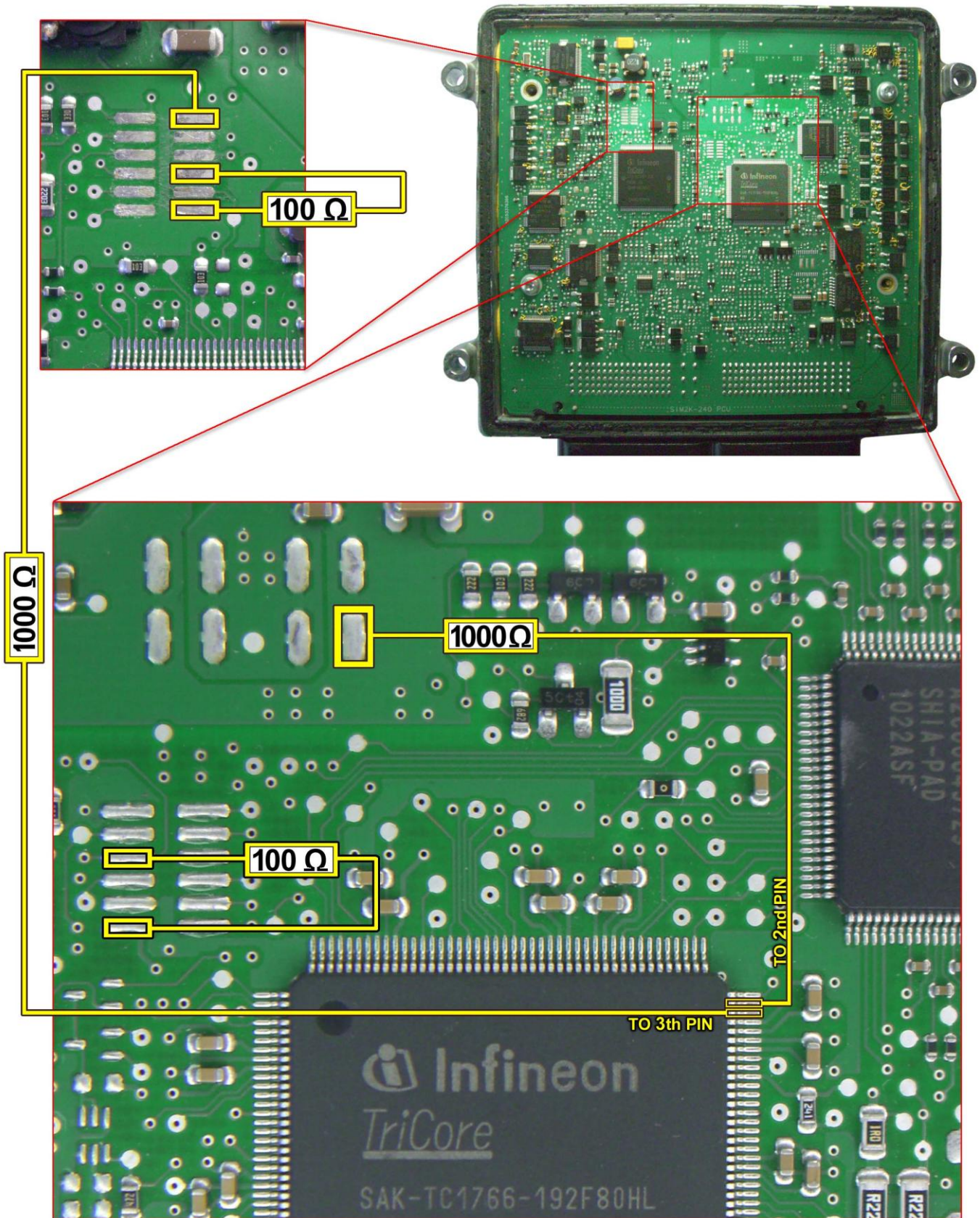




INSTRUCTIONS FOR SET TO BOOT THE MICRO TC1767:

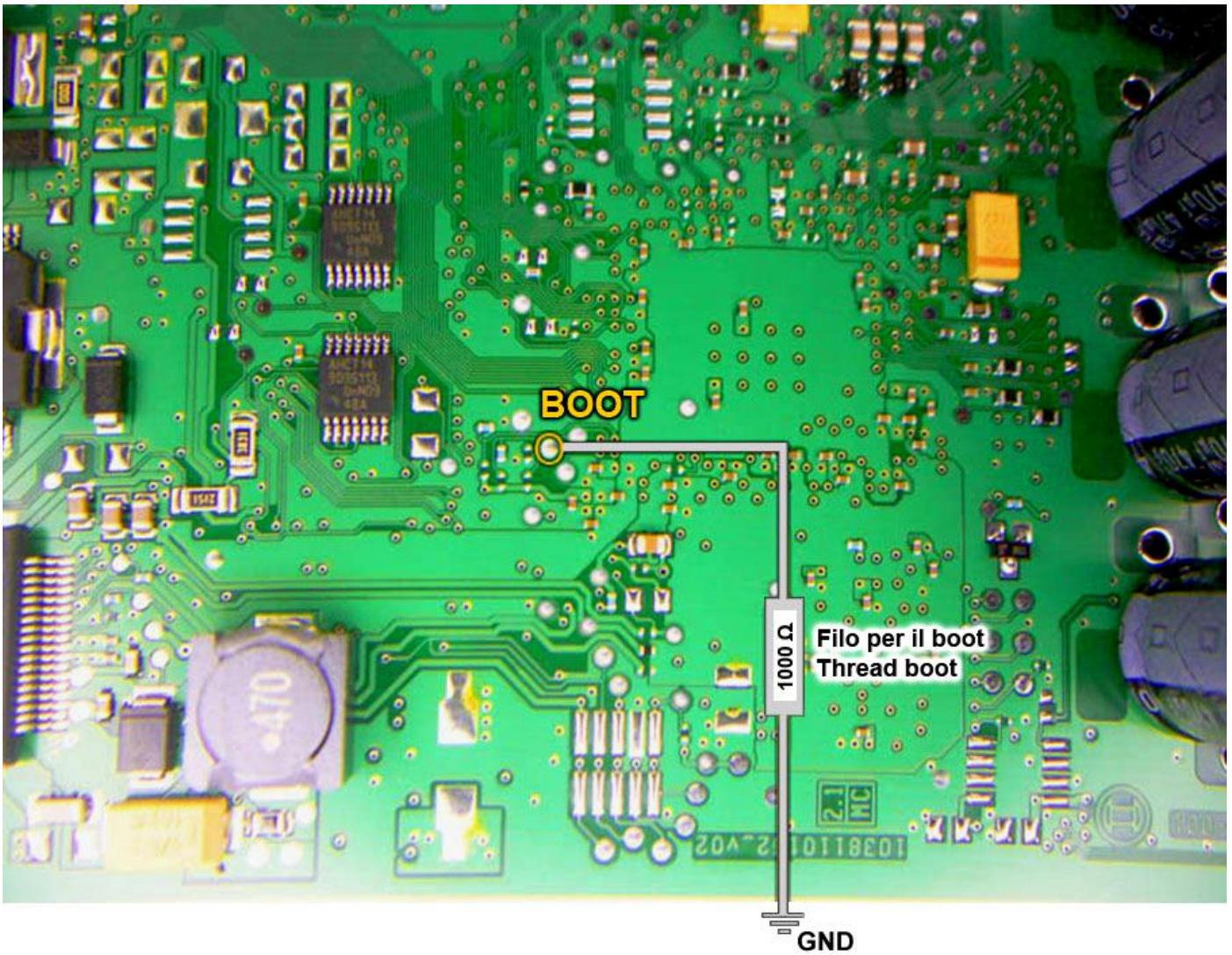
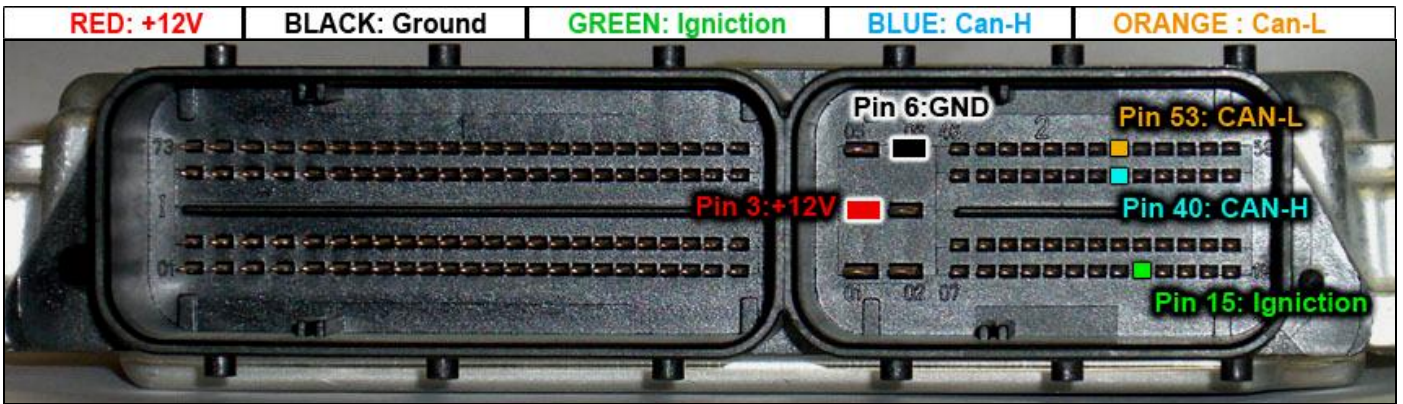


INSTRUCTIONS FOR SET TO BOOT THE MICRO TC1766:



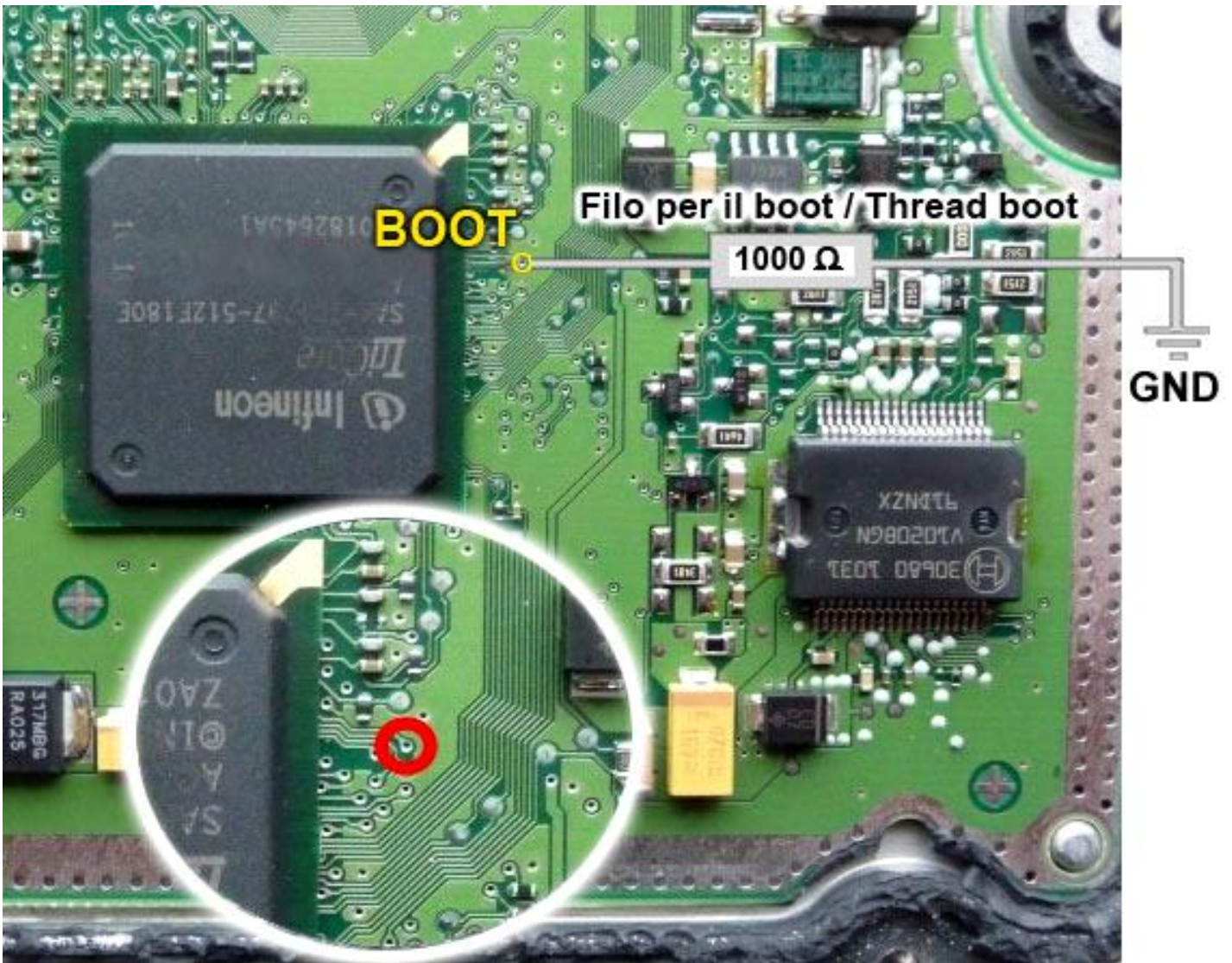
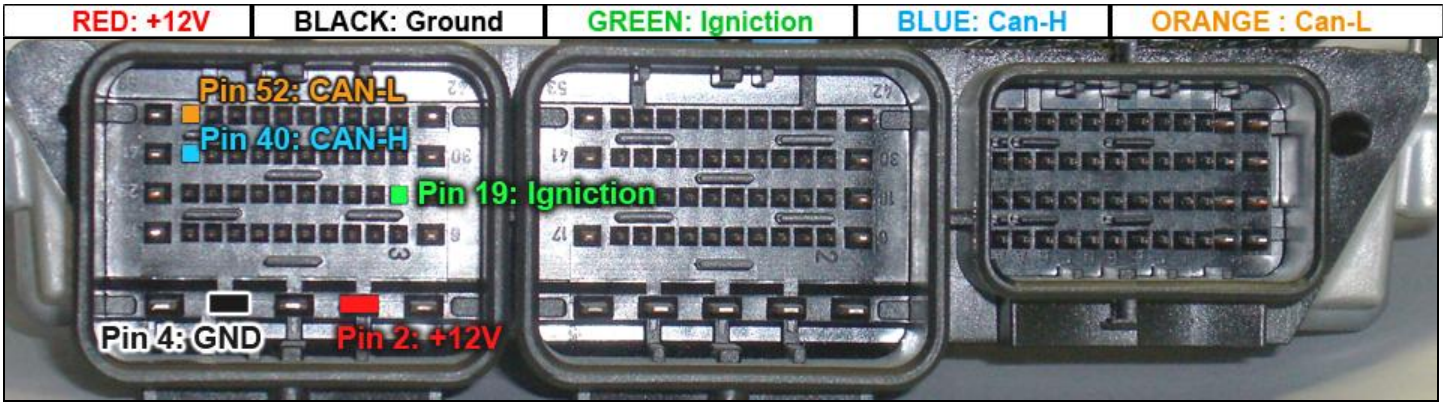


ECU EDC17 Land Rover 3.0 V6 - 4.4 TDI V8 - TC1796 Internal Flash

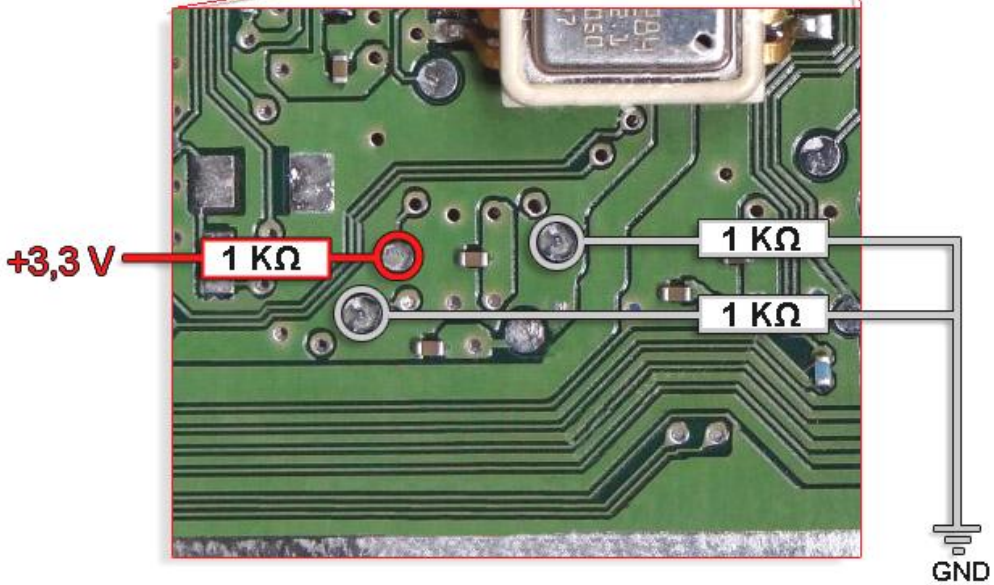
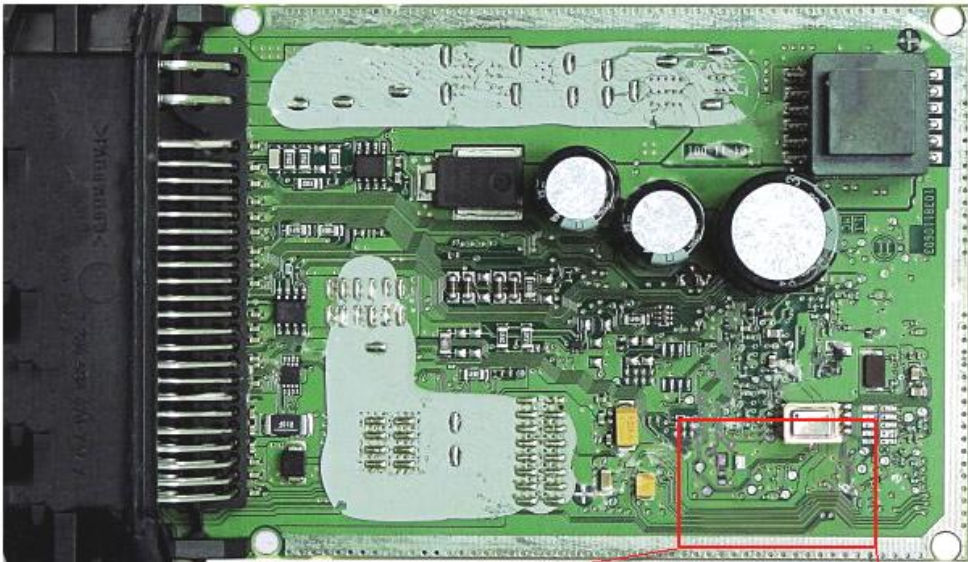
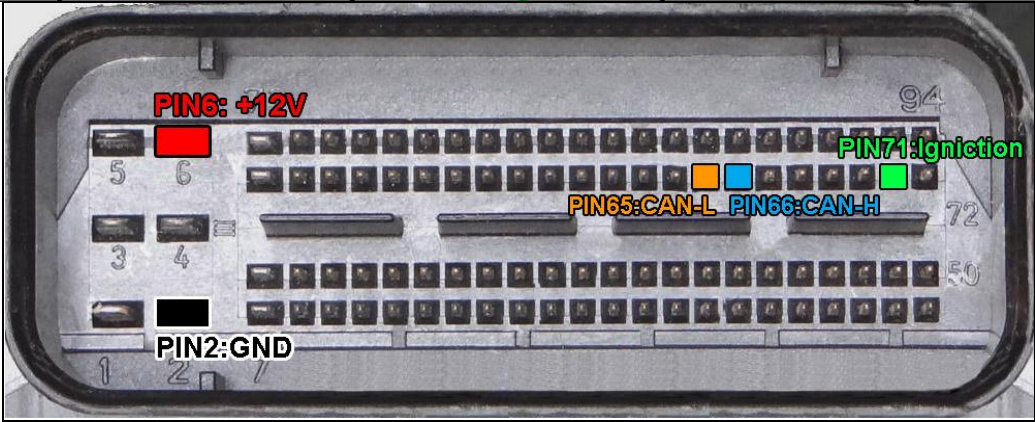




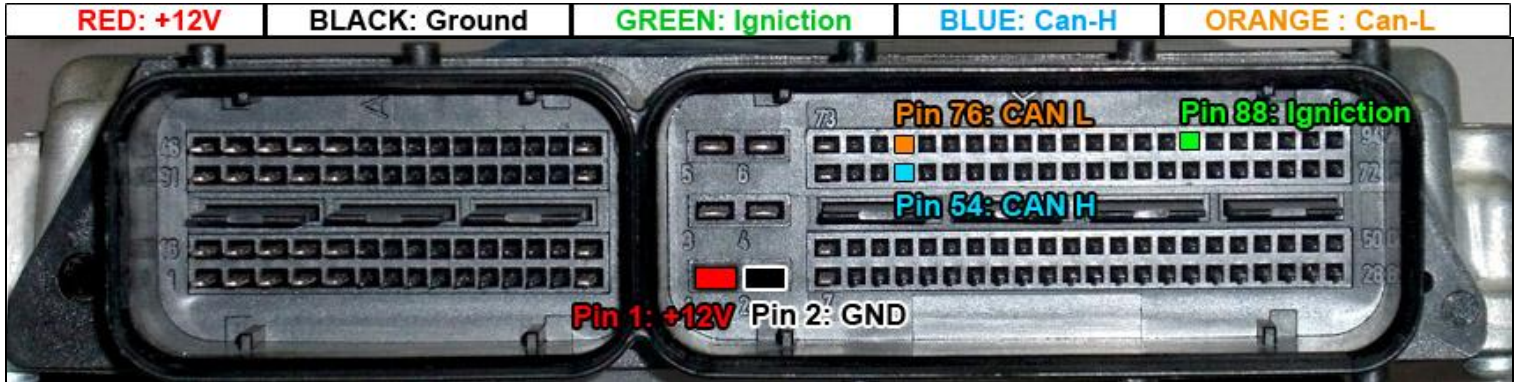
ECU EDC17 CP42 - TC1797 Internal Flash



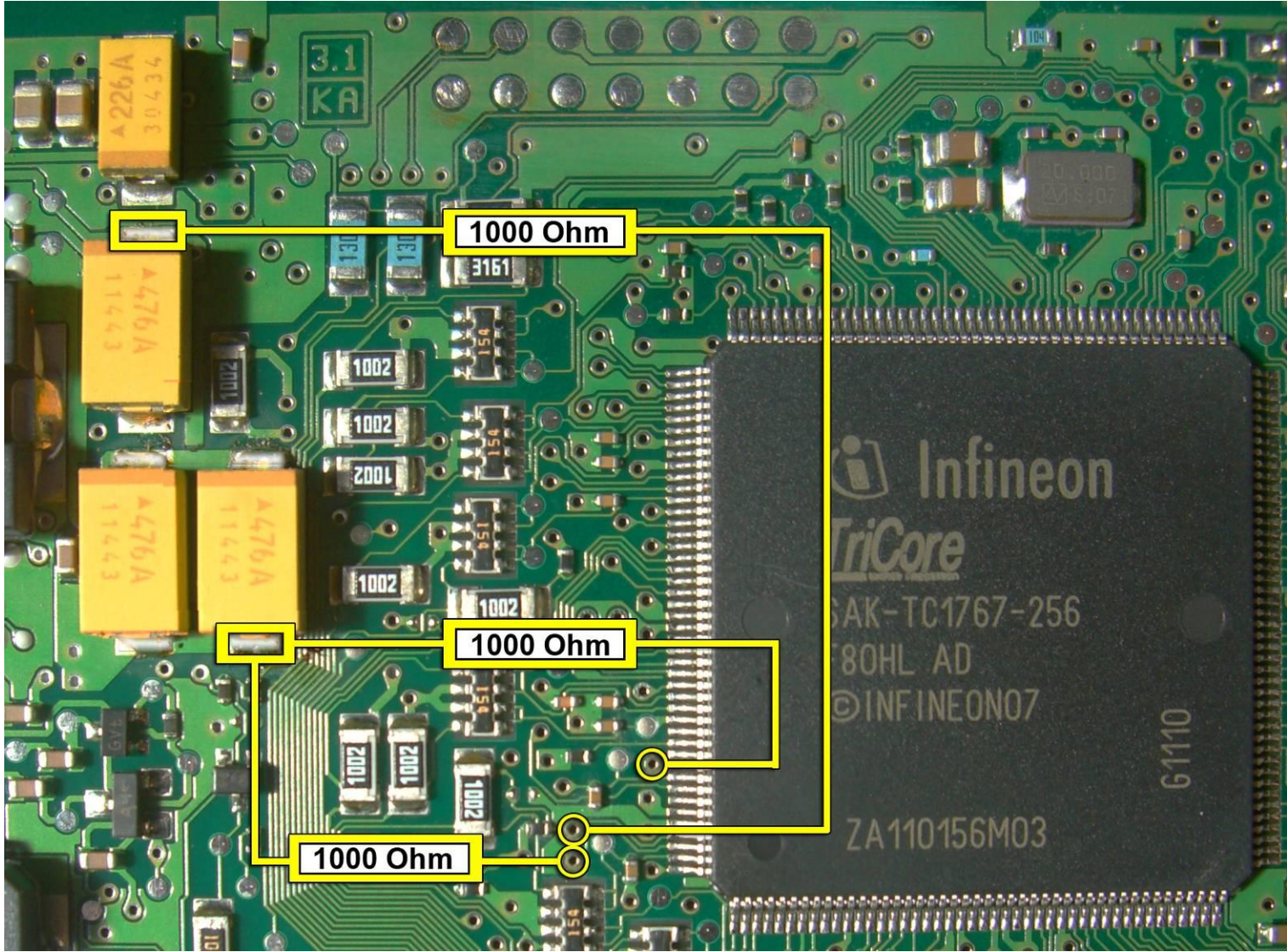
RED: +12V BLACK: Ground GREEN: Ignition BLUE: Can-H ORANGE : Can-L



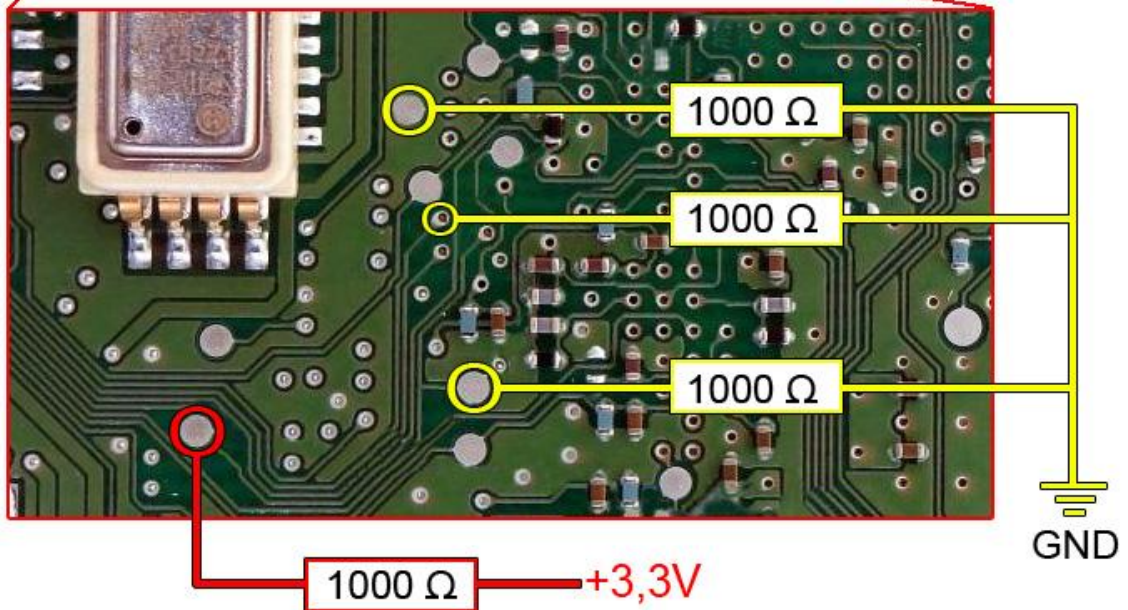
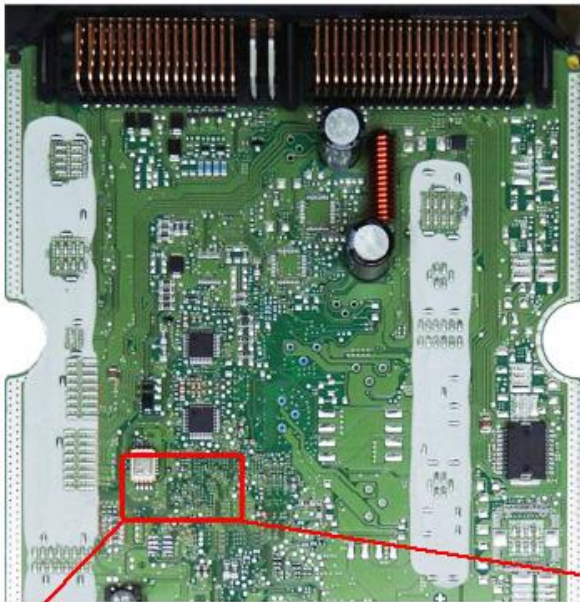
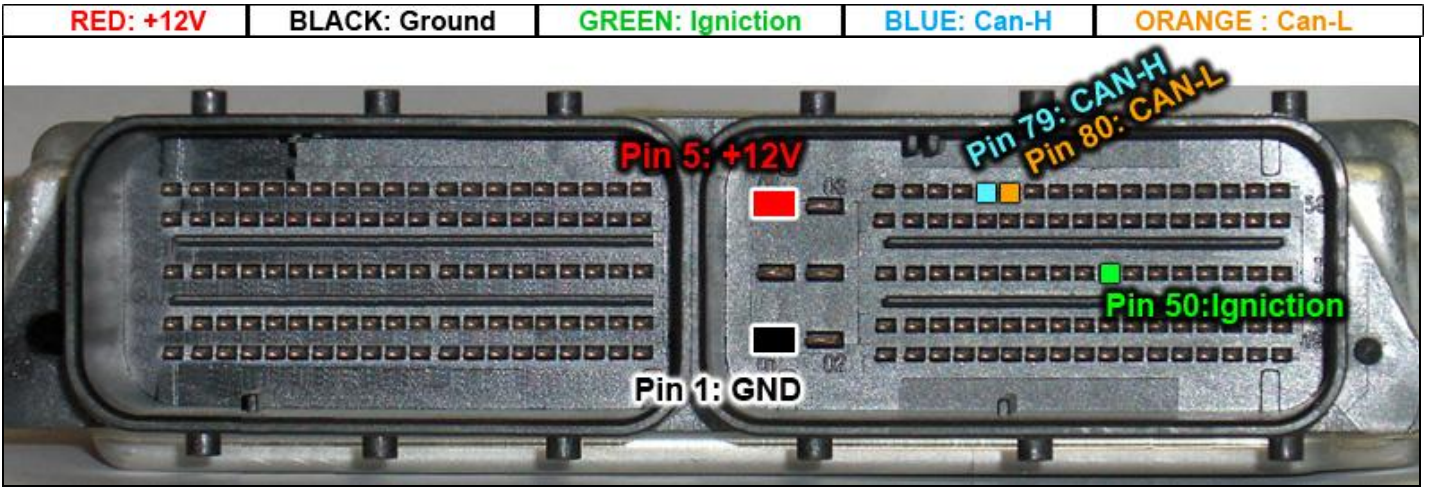
ECU EDC17 CV44/54 - TC1767 Internal Flash

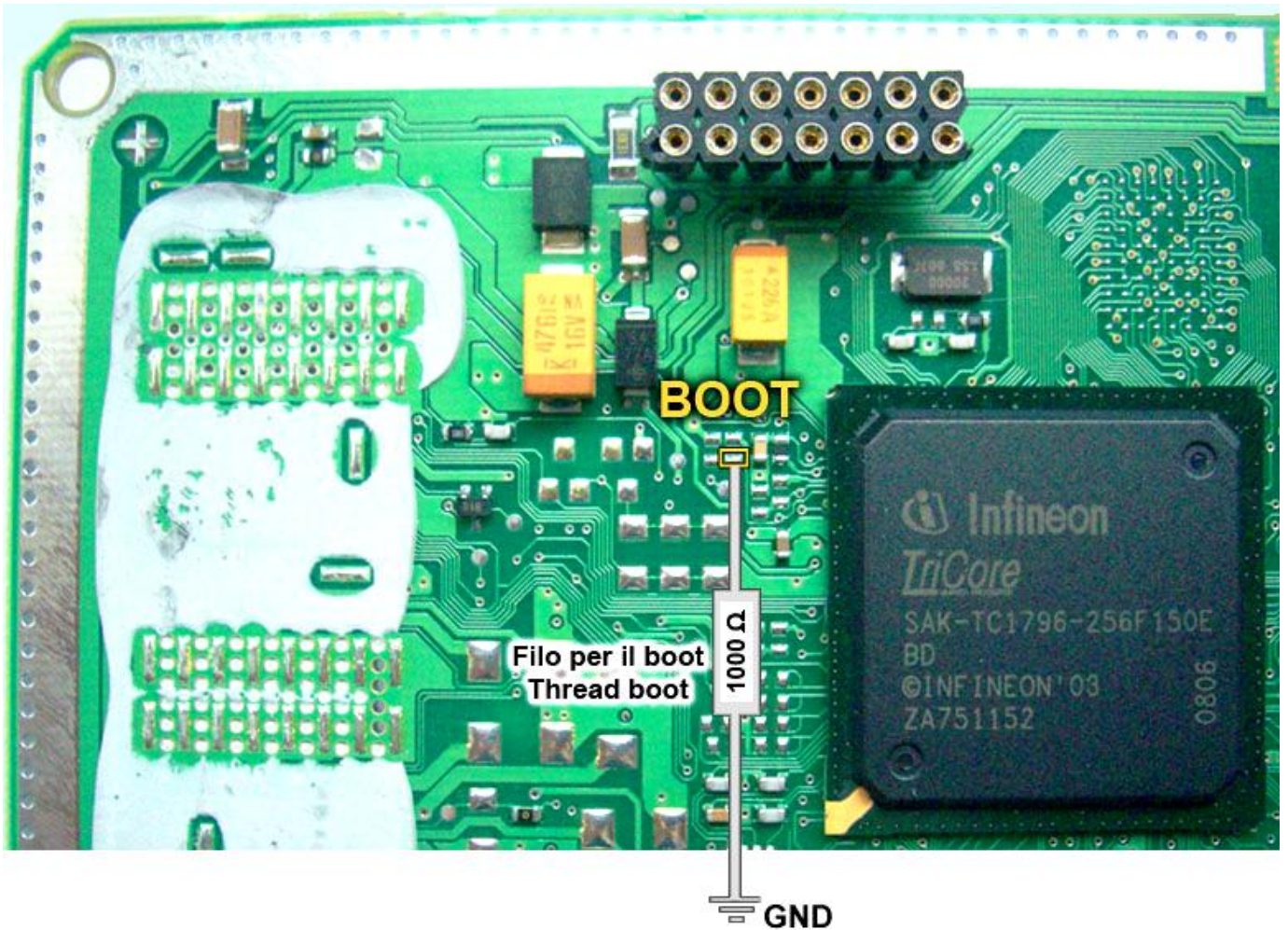
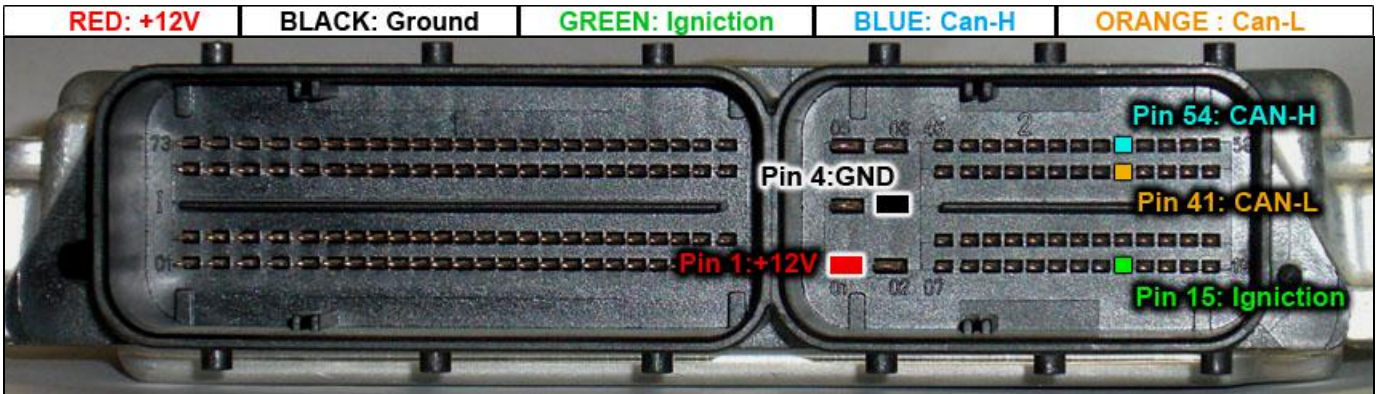


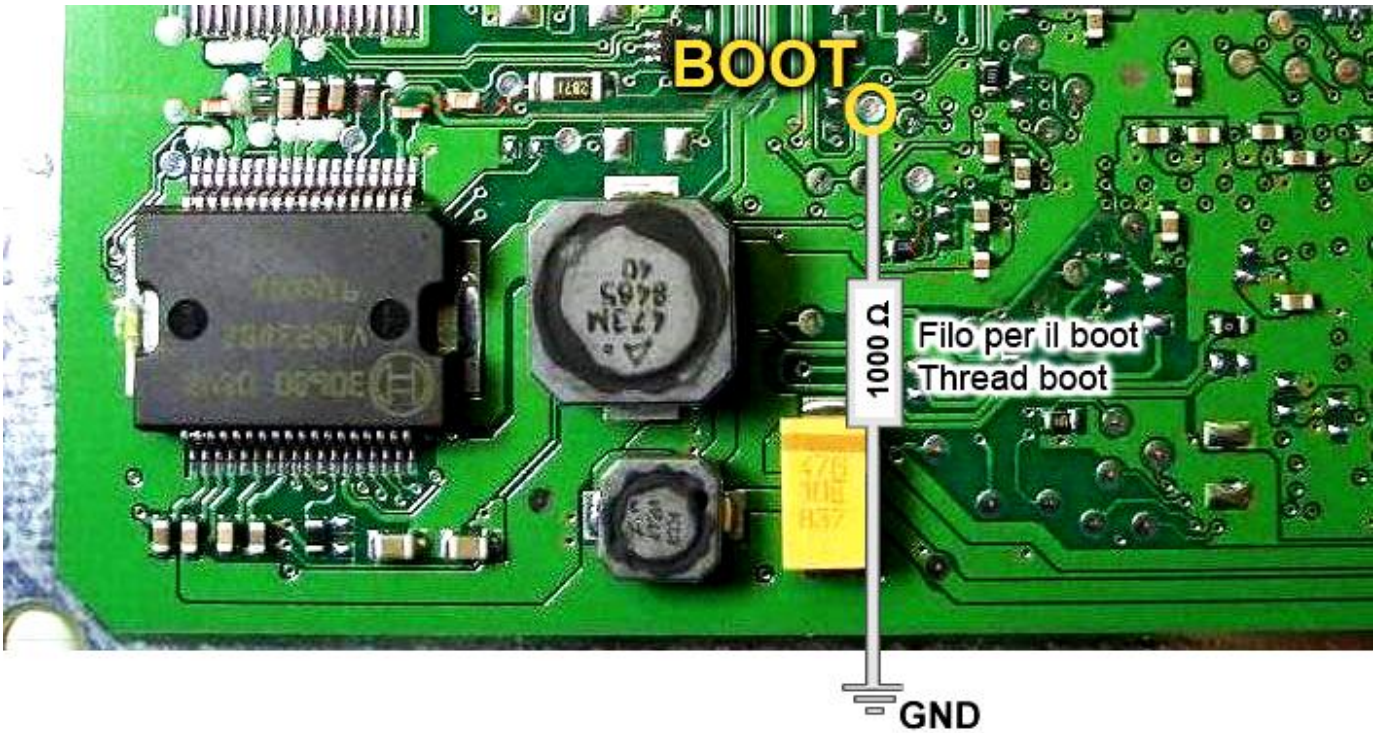
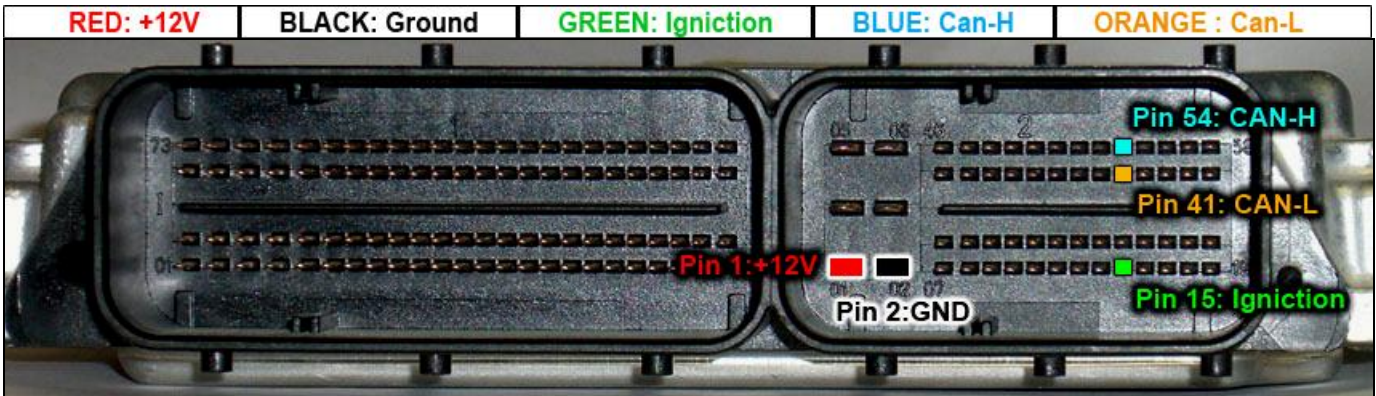
Questa centralina si mette in Boot Mode utilizzando 3 resistenze da 1000 Ohm:
This is the Boot Mode for this ECU used 3 resistance of 1000 Ohm:

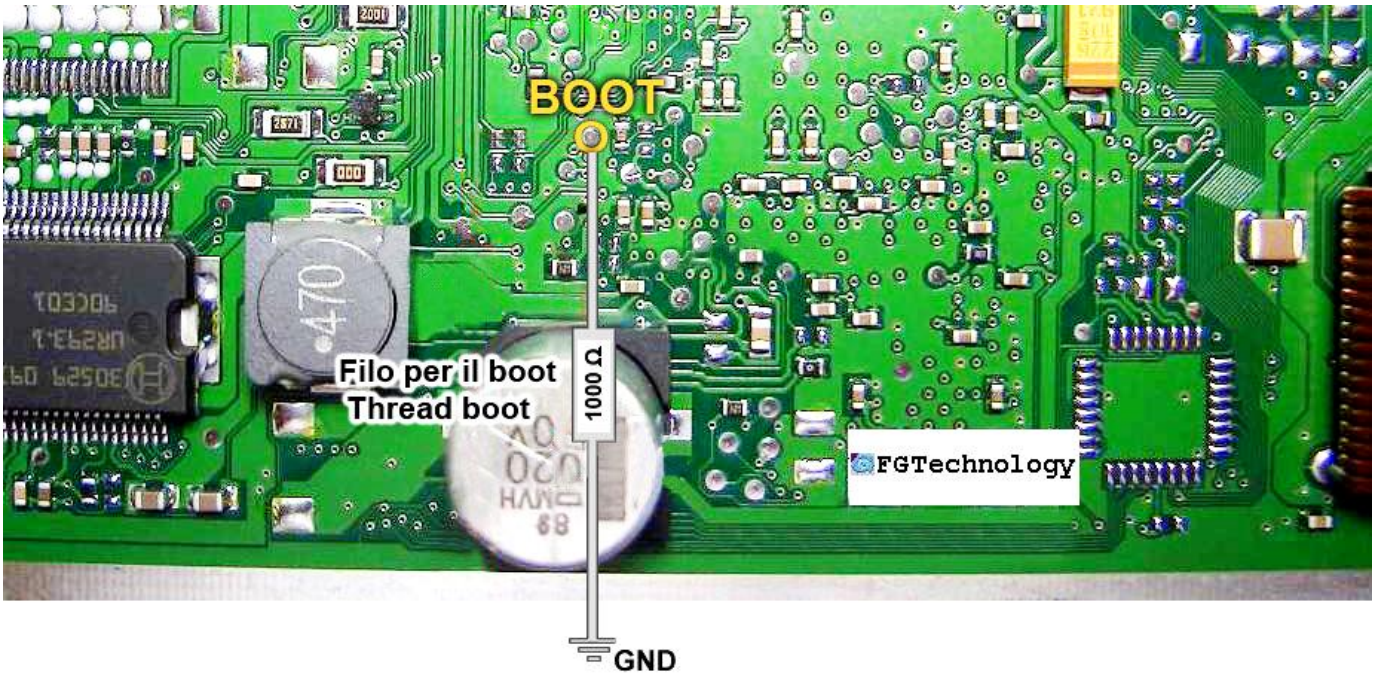
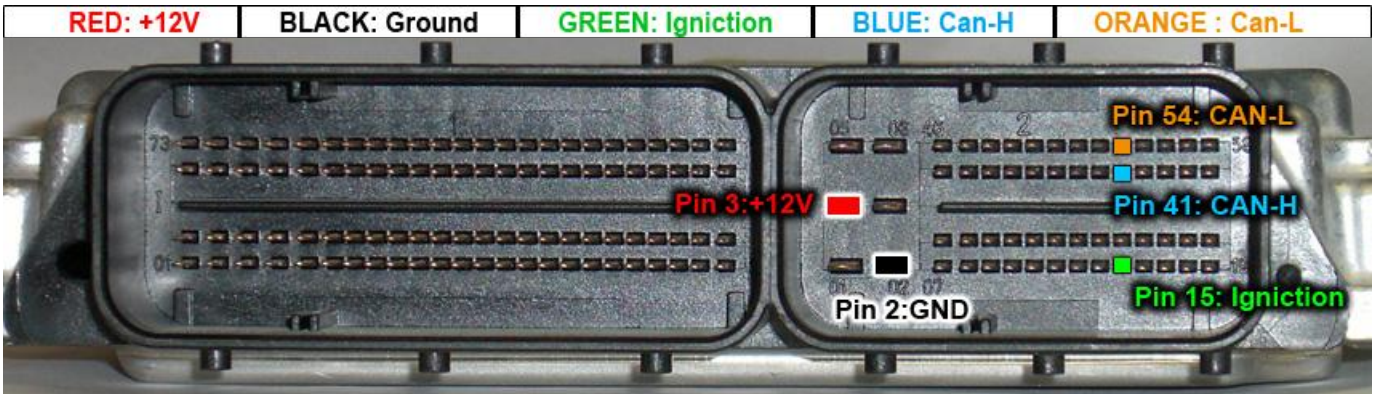


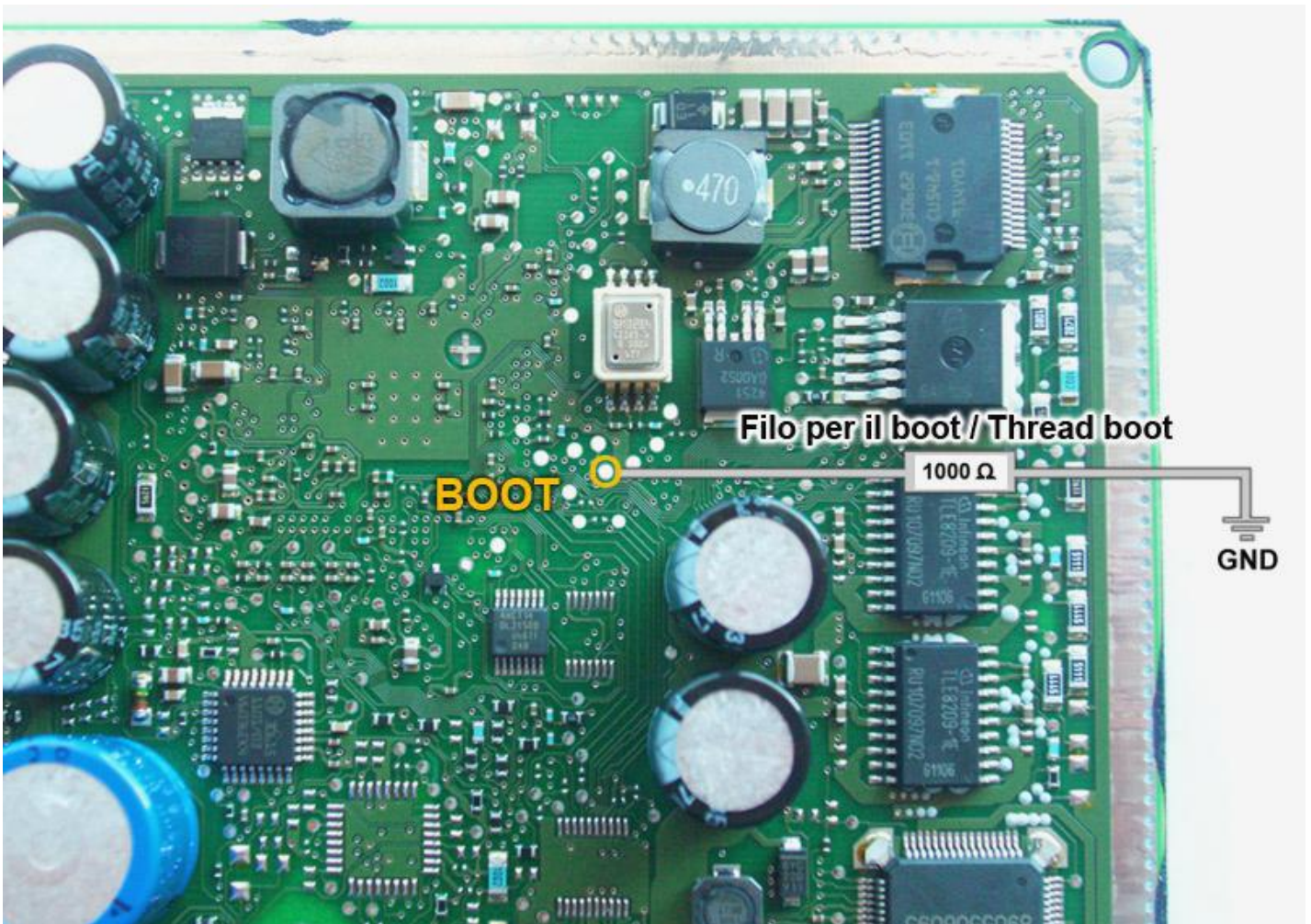
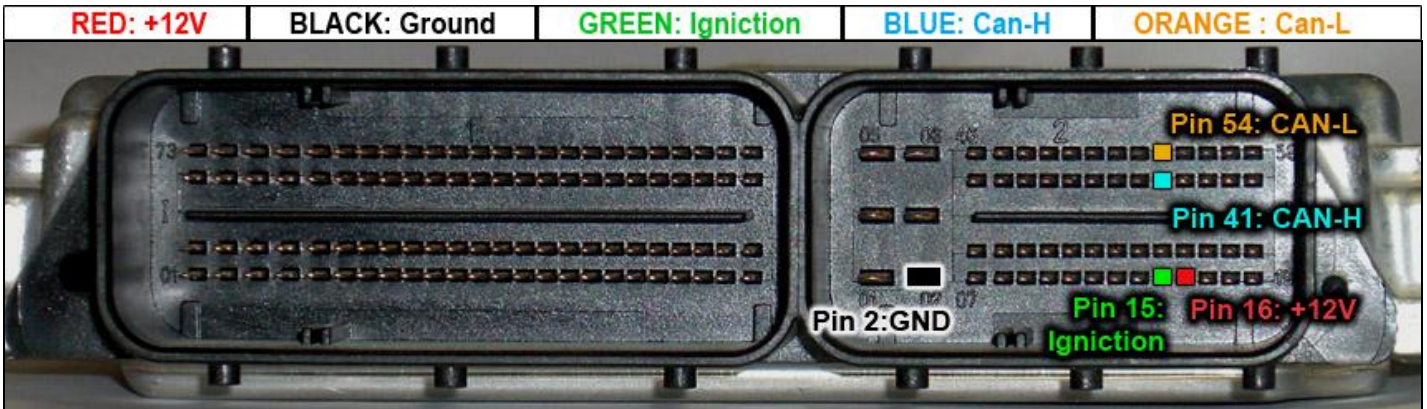
ECU MED17.7.8 - TC1797 Internal Flash

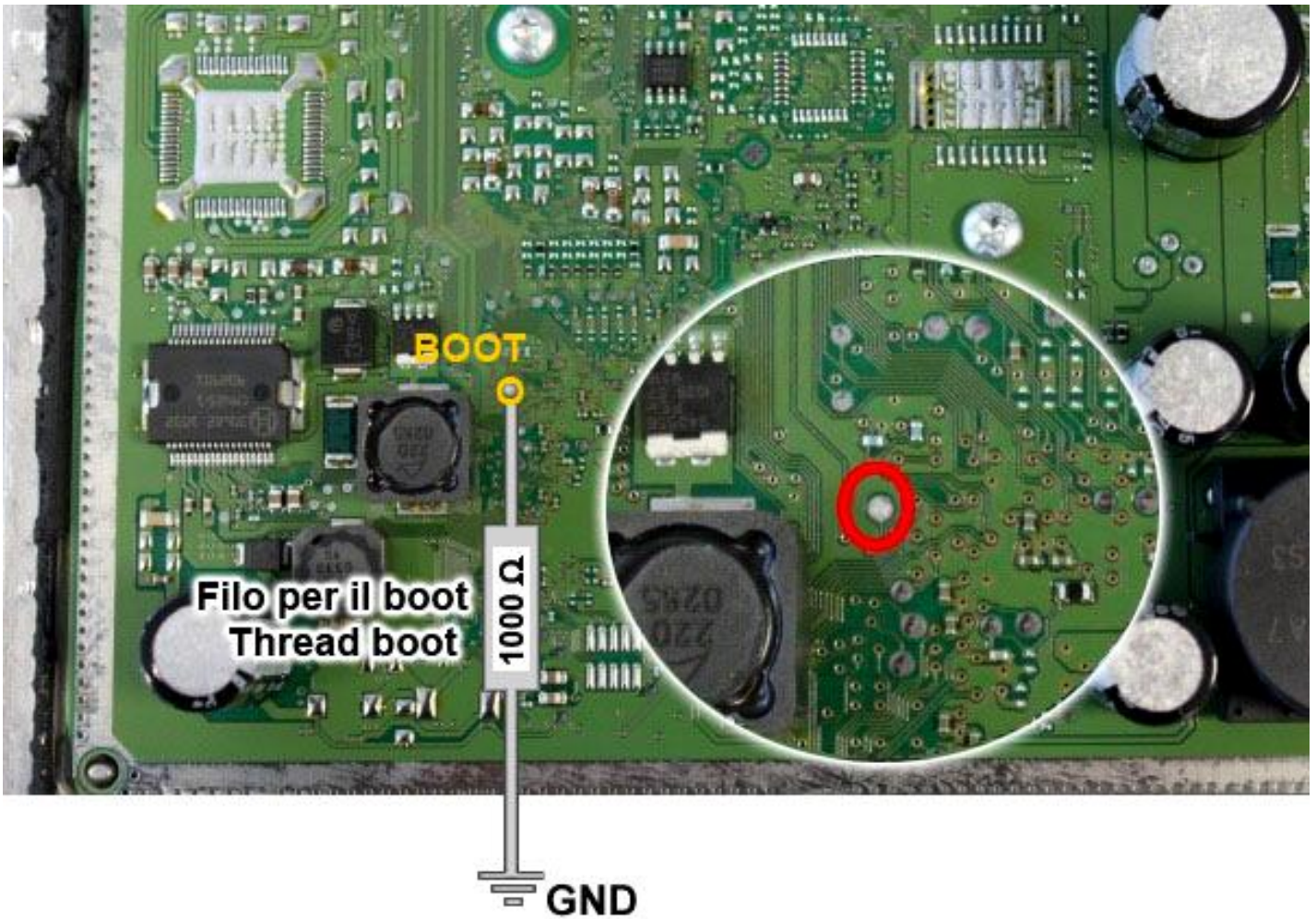
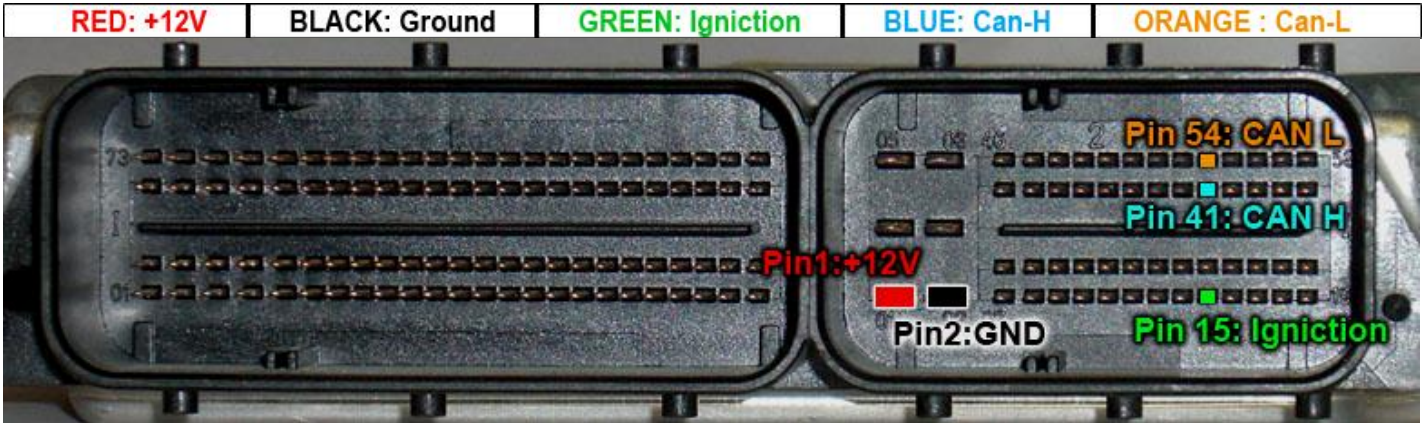


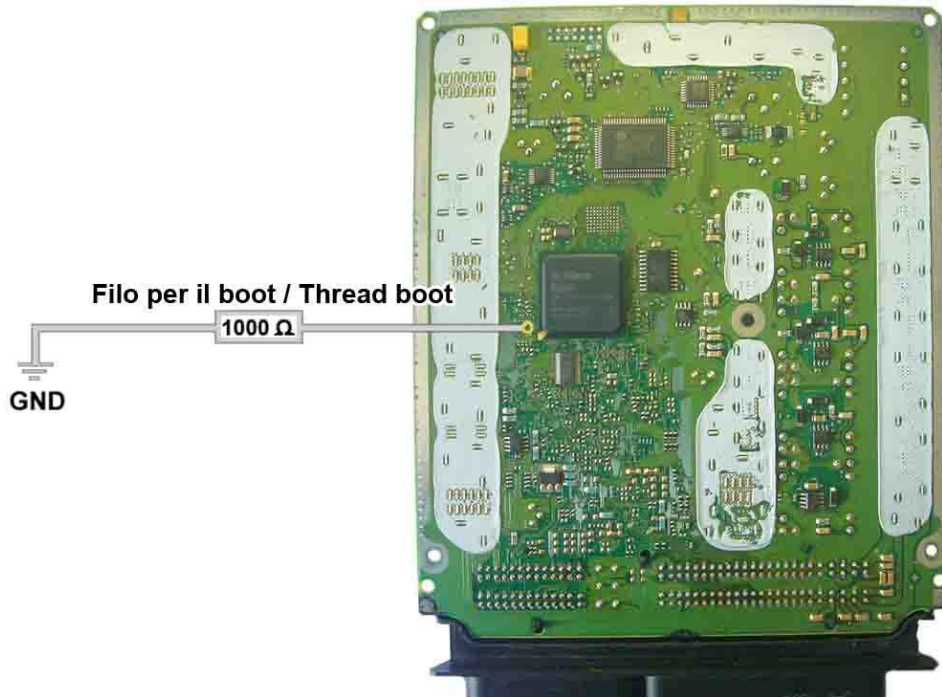
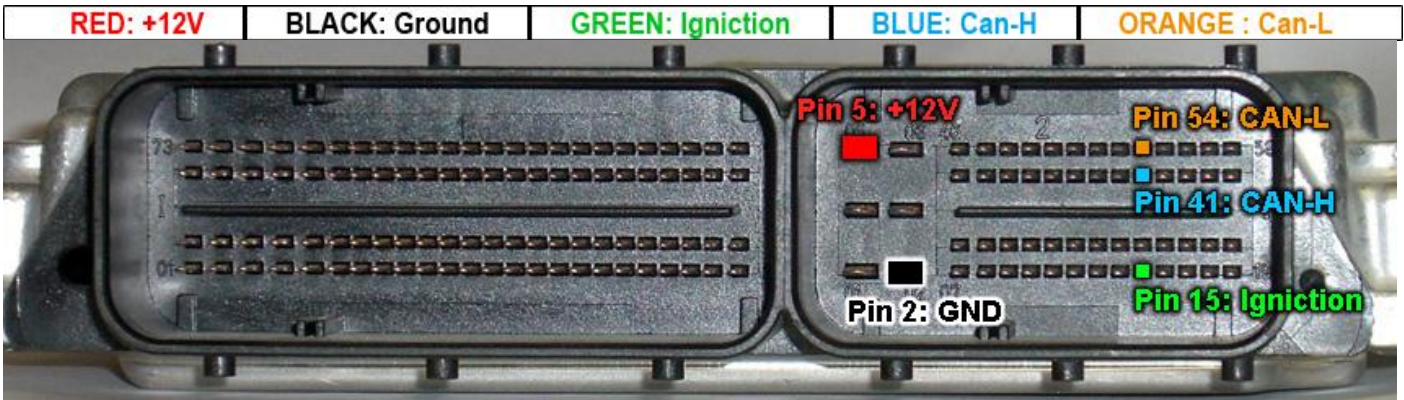






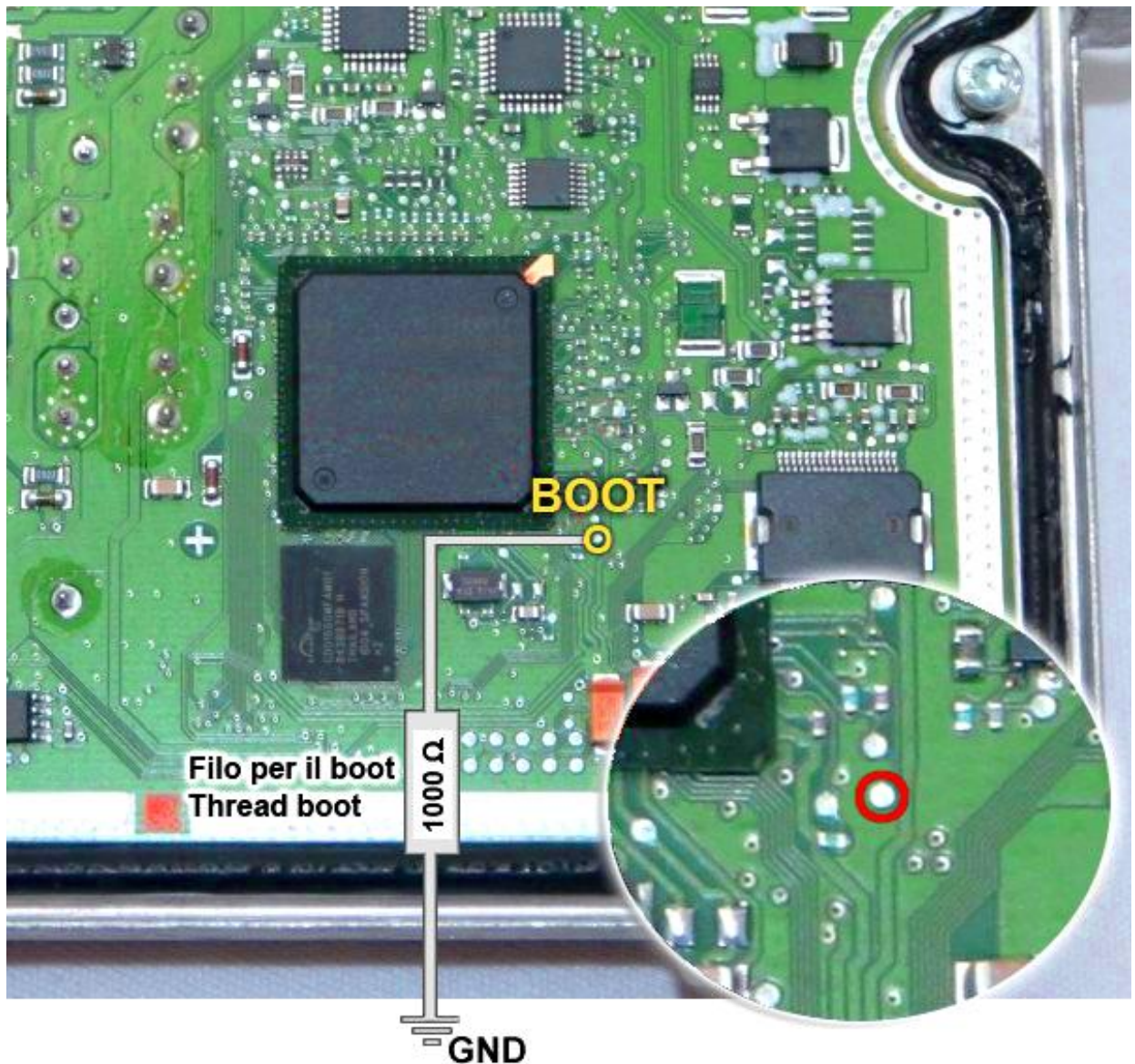
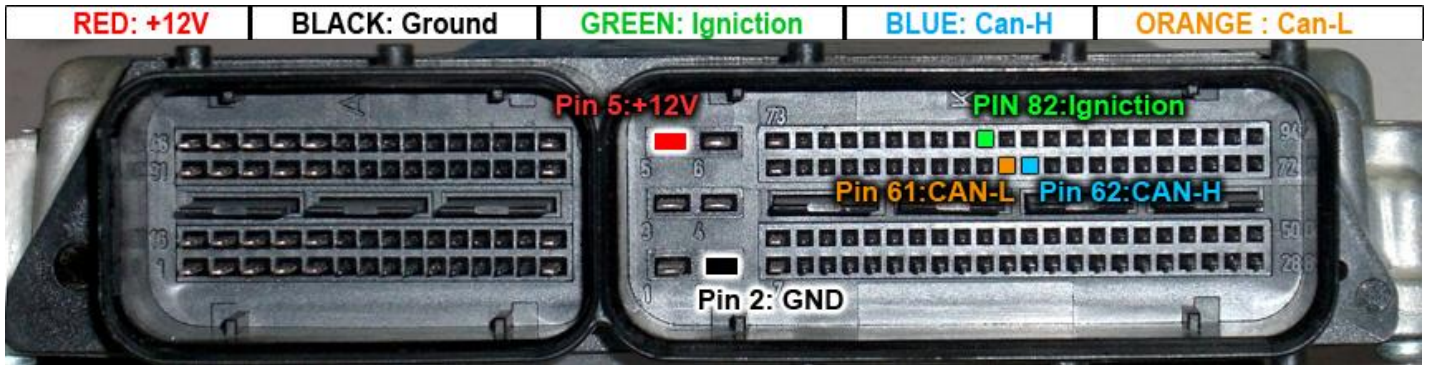






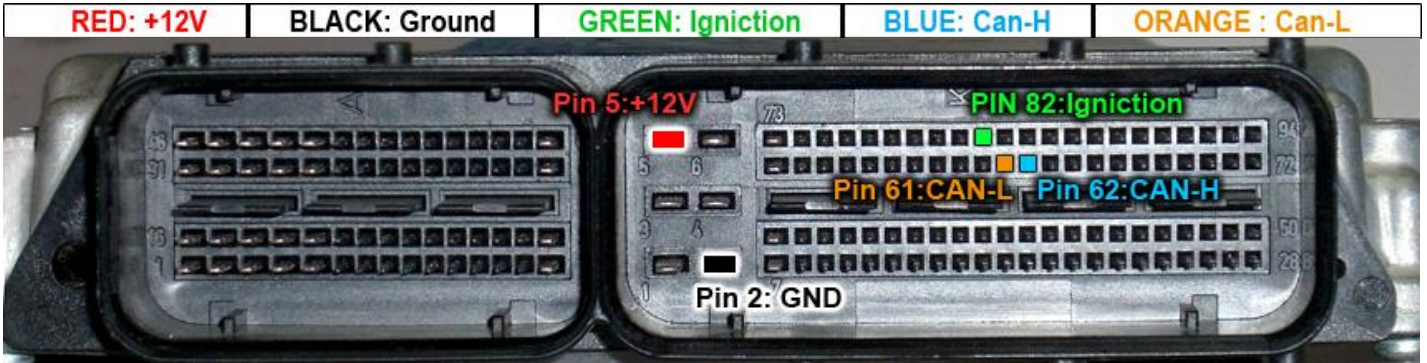


ECU EDC17CP15 - TC1796 Internal-External Flash



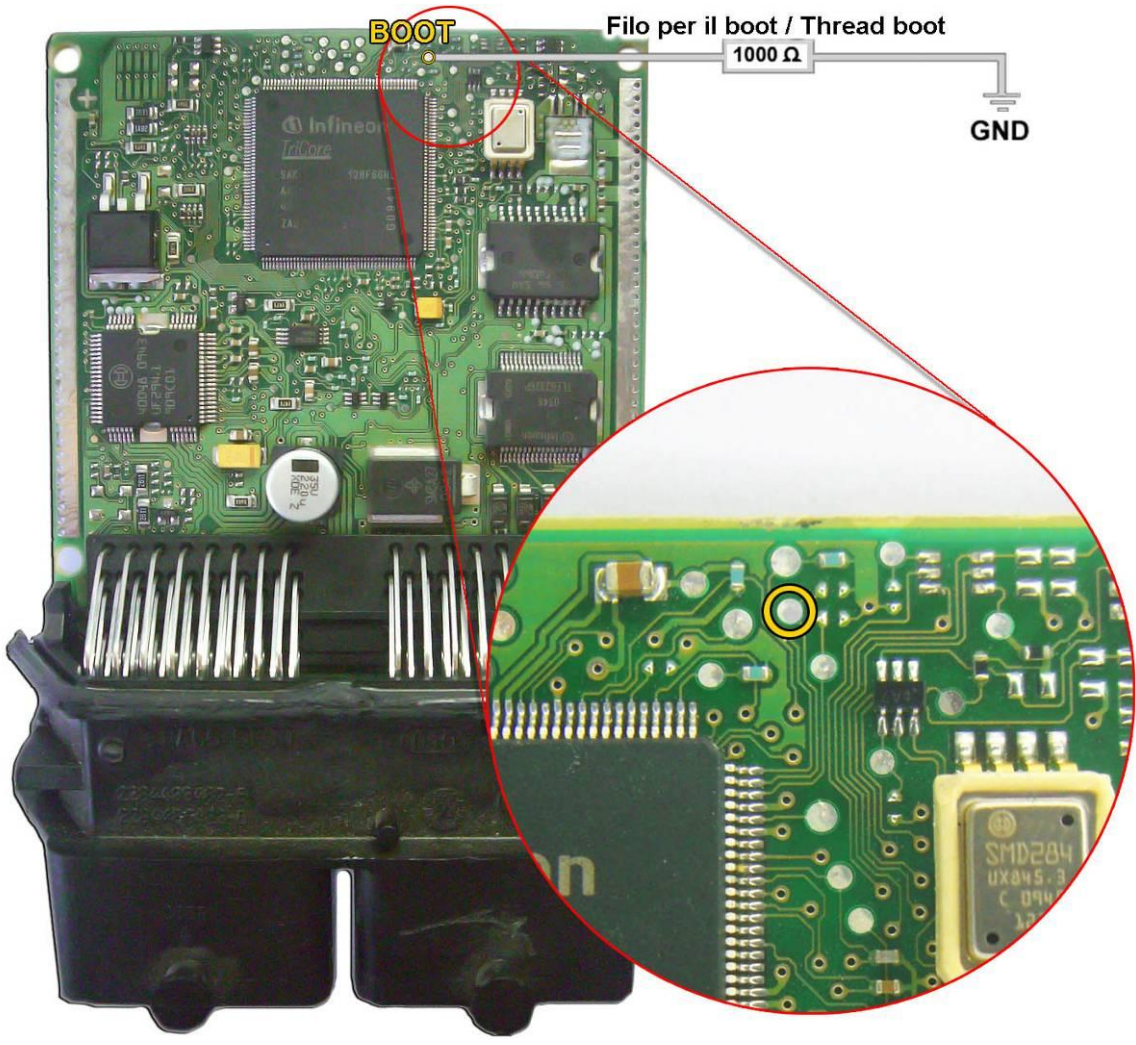


ECU EDC17 - TC1797 Internal Flash



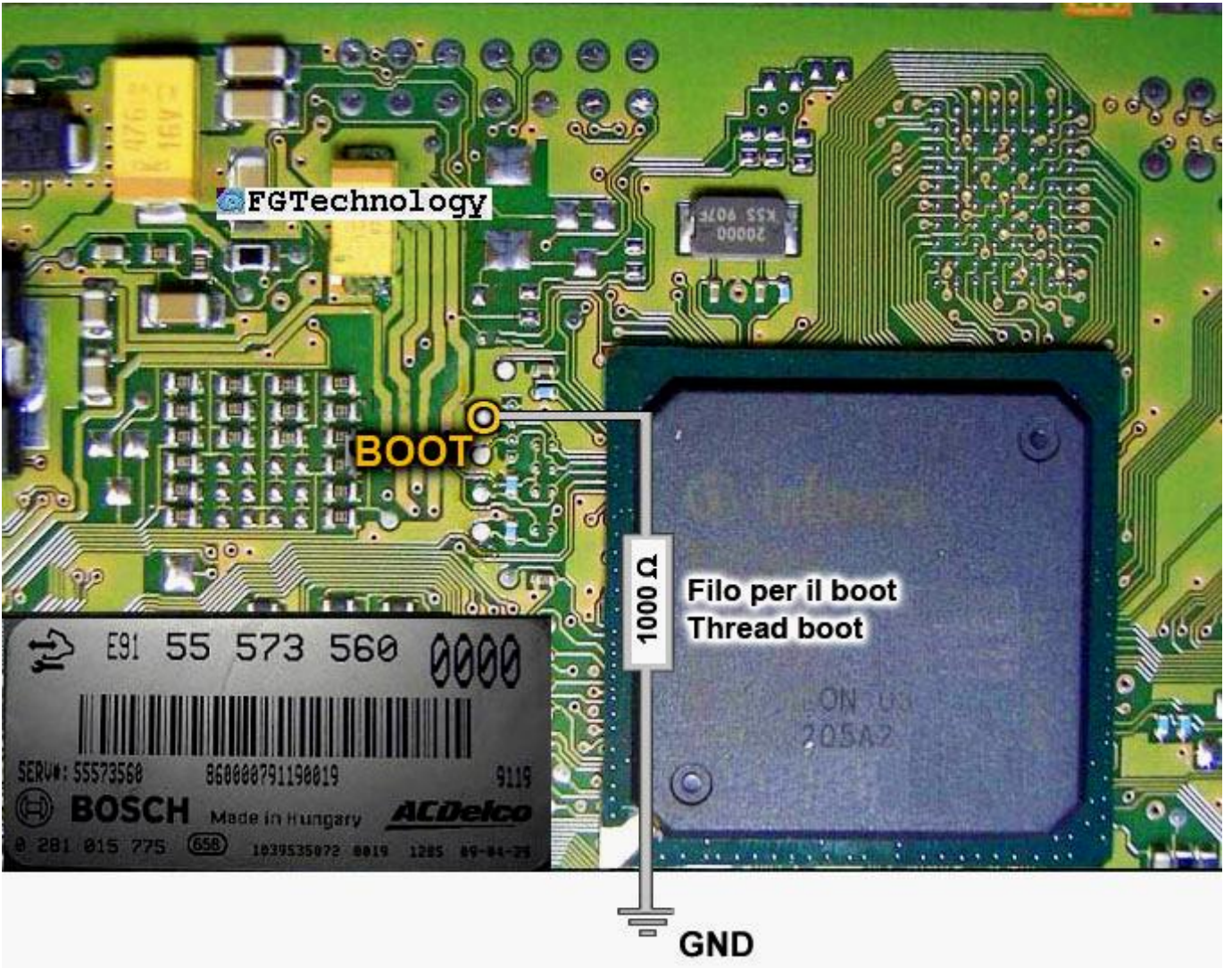
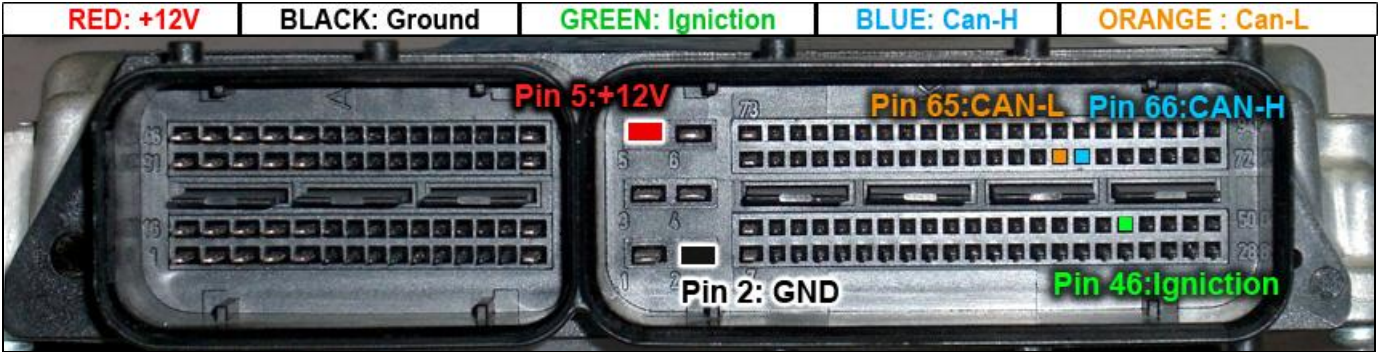


ECU VME17 - TC1762 Internal Flash



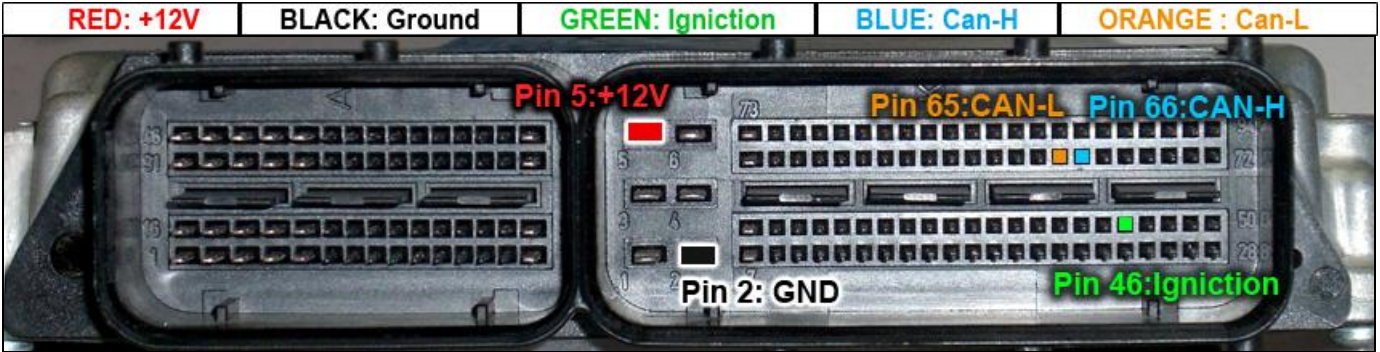


ECU EDC17CP19 - TC1792/TC1796 Internal Flash



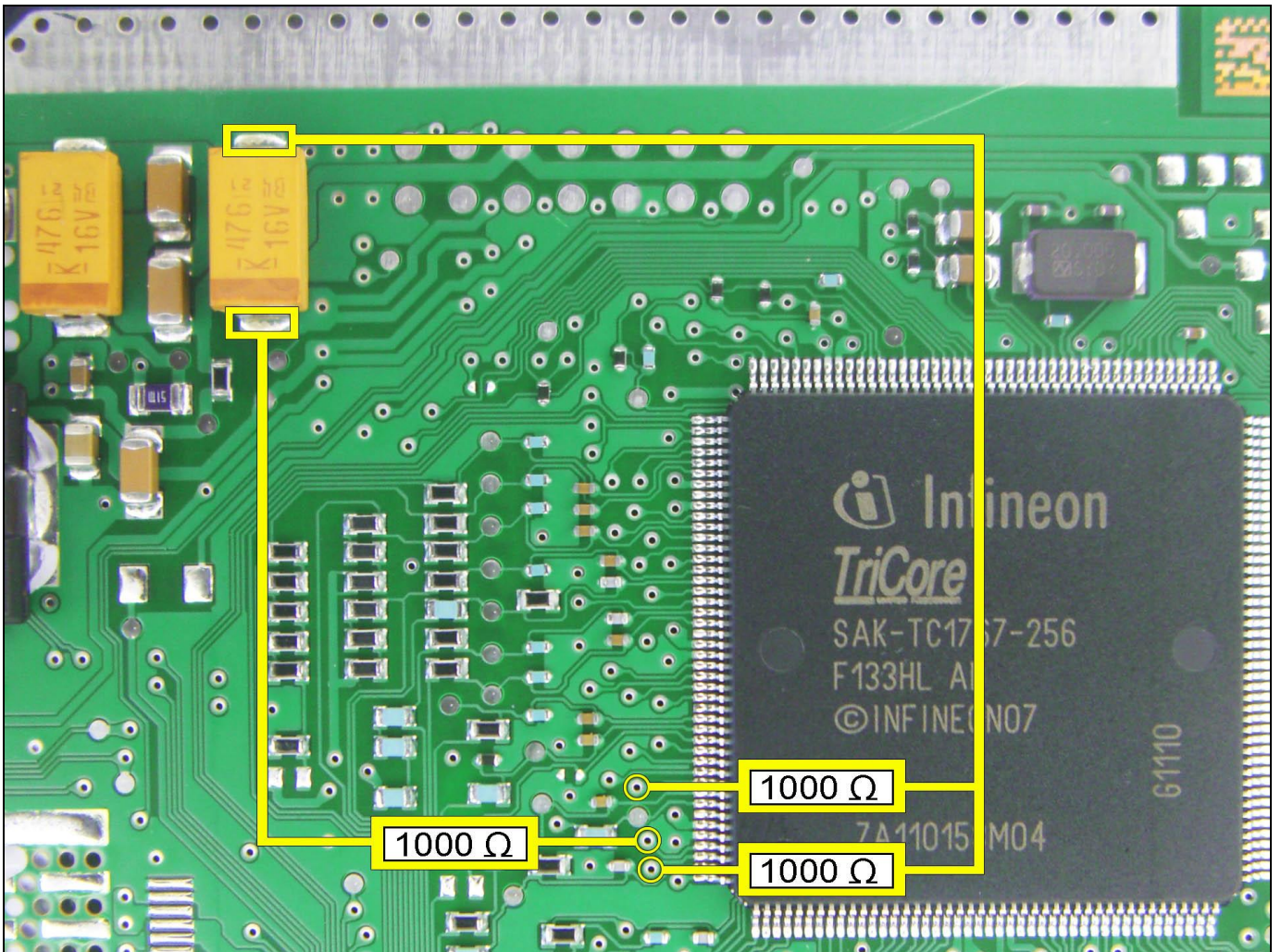
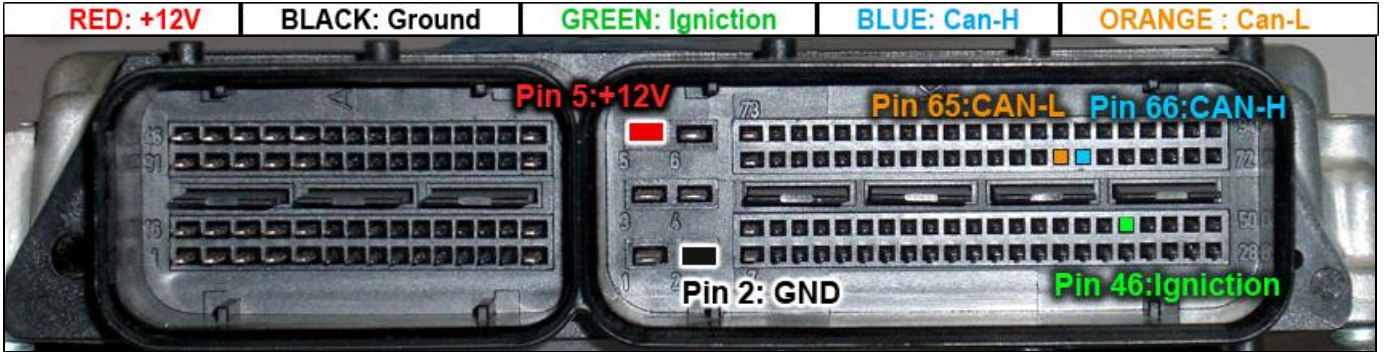


ECU EDC17 CP18 - TC1766 Internal Flash

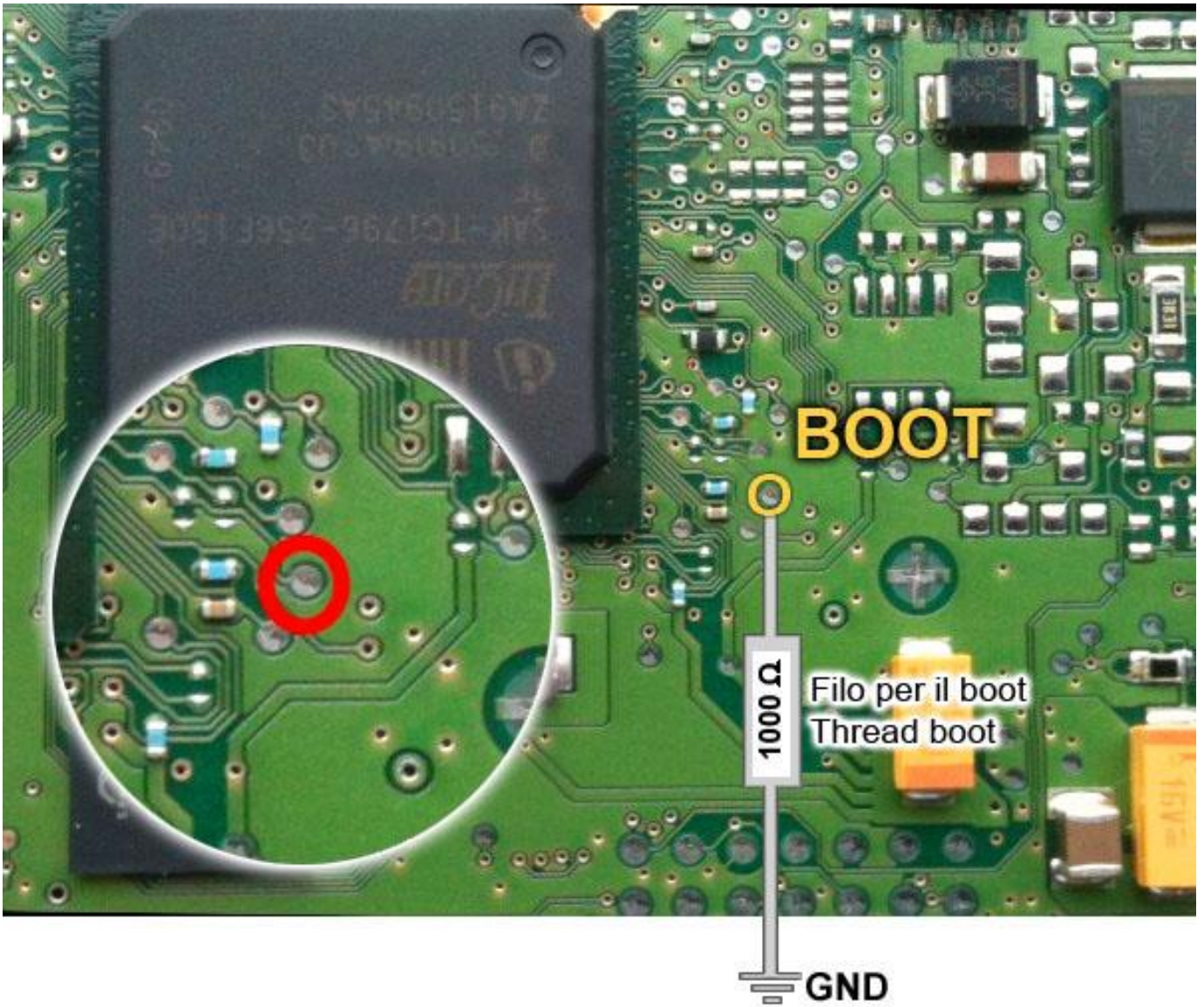
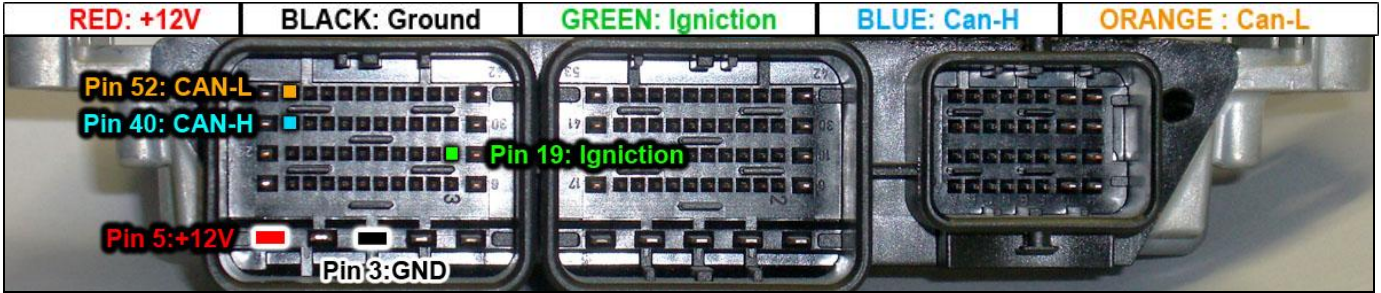




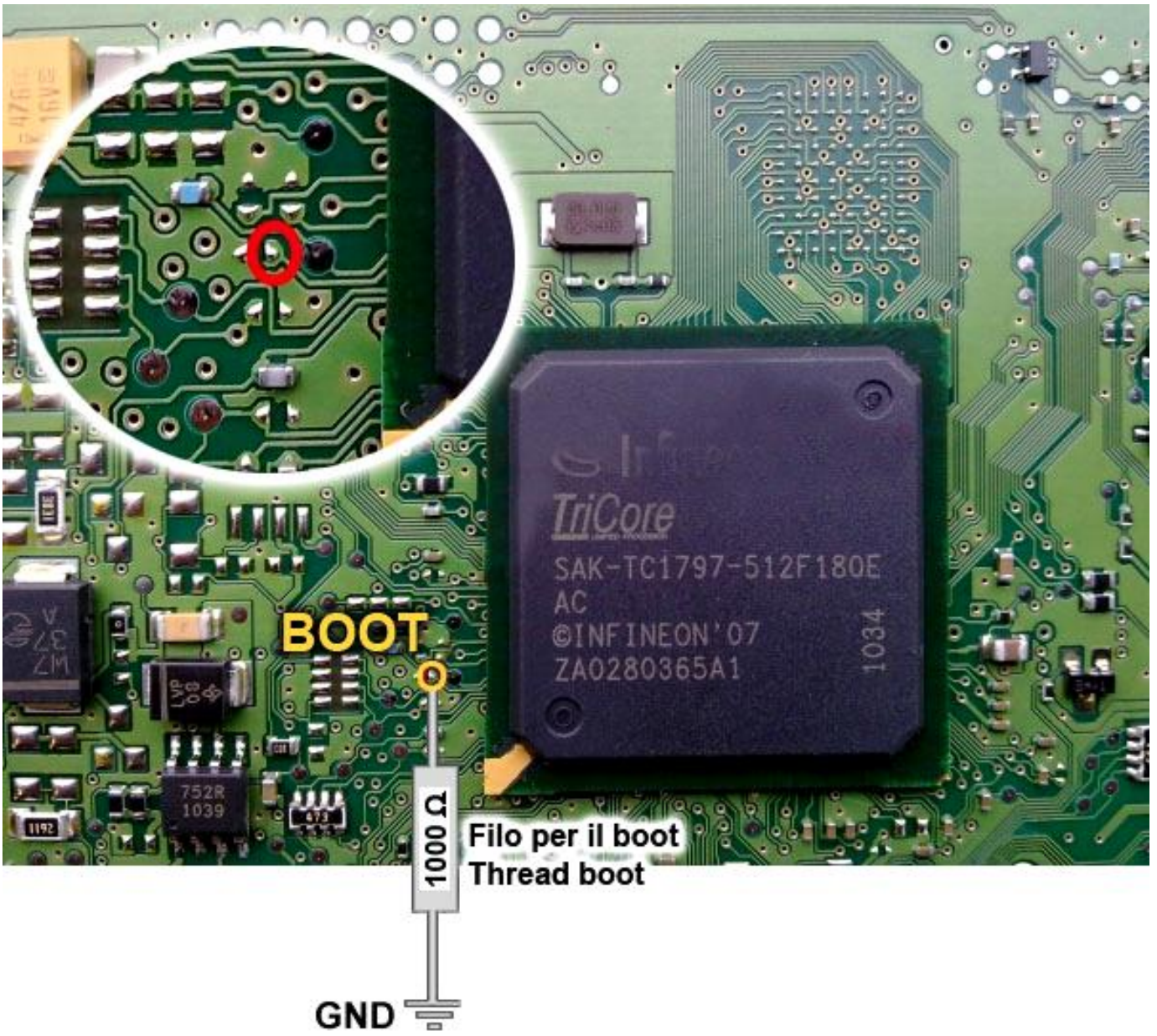
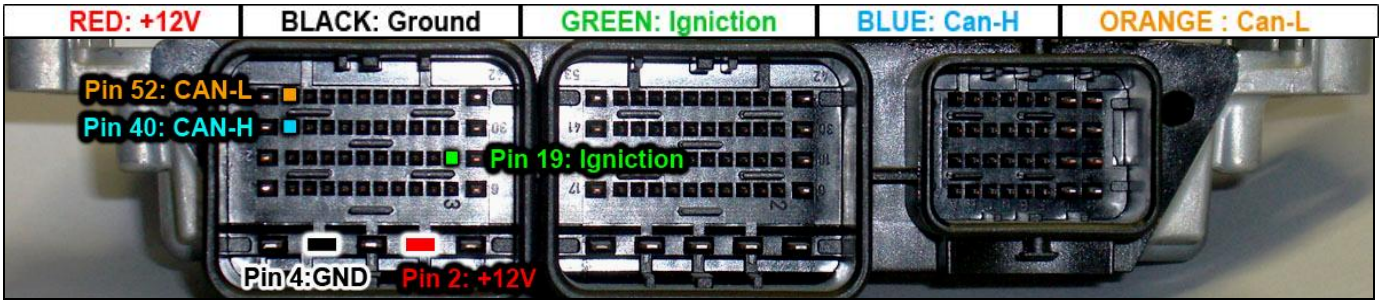
ECU EDC17 ACDelco - TC1767 Internal Flash *



ECU EDC17C10 - TC1796 Int. - Ext. Flash

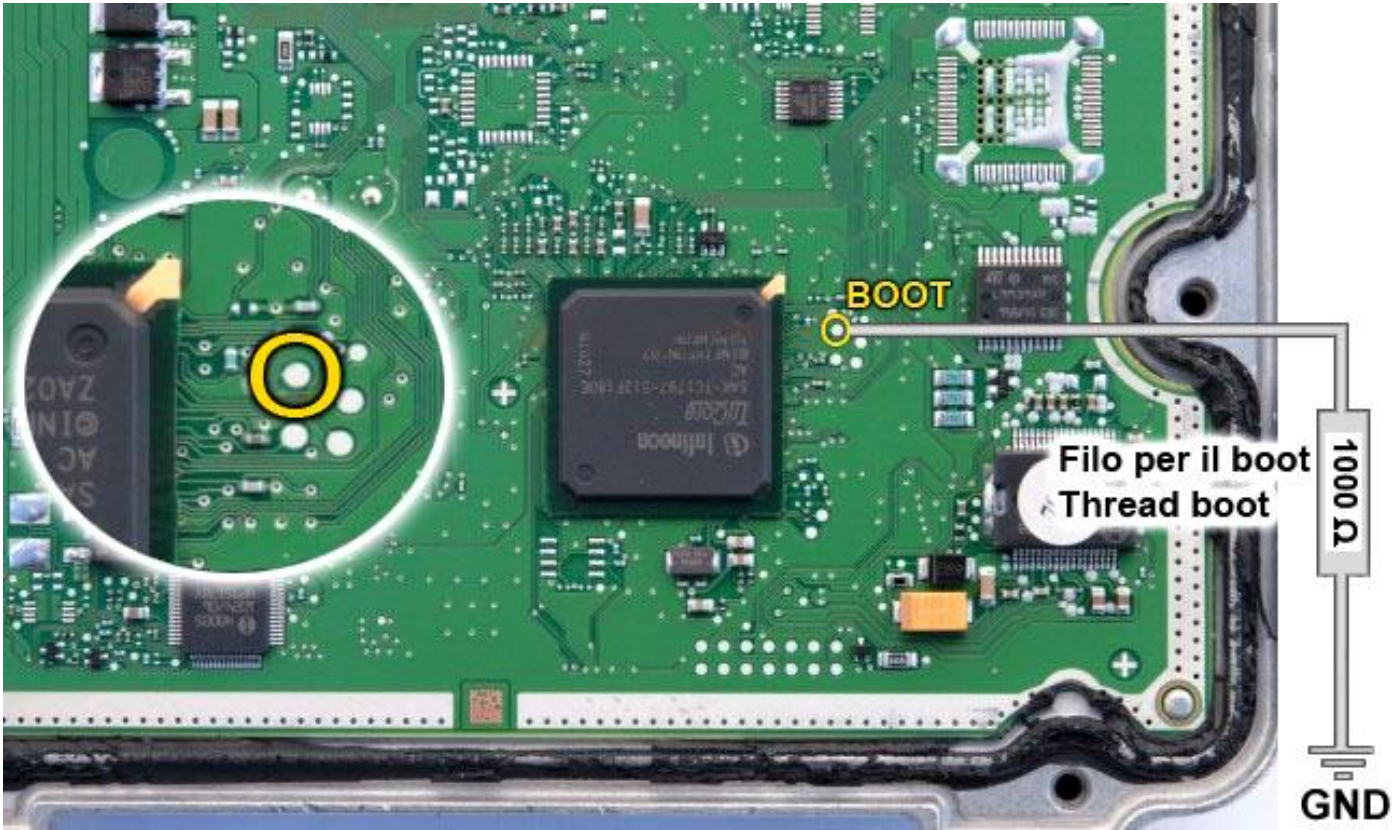
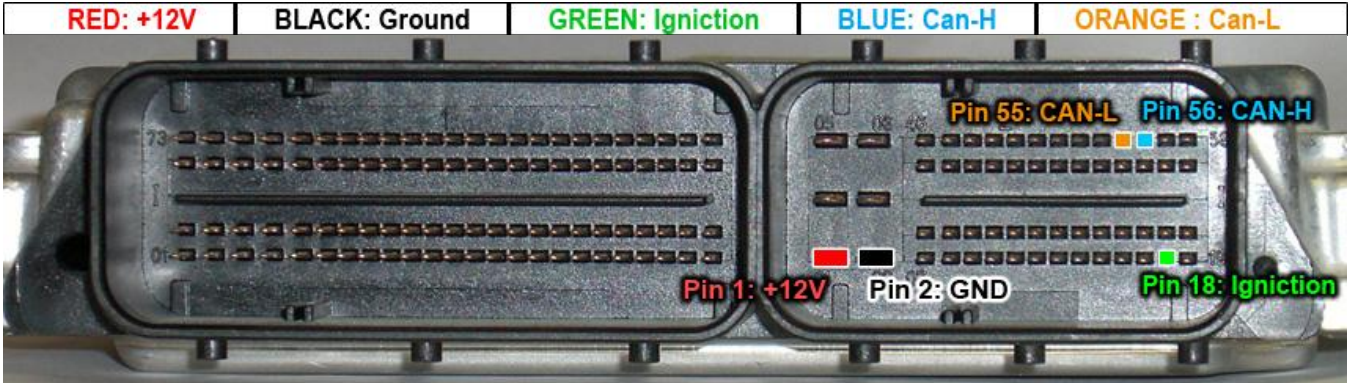


ECU PSA EDC17C10 - TC1797 Internal Flash

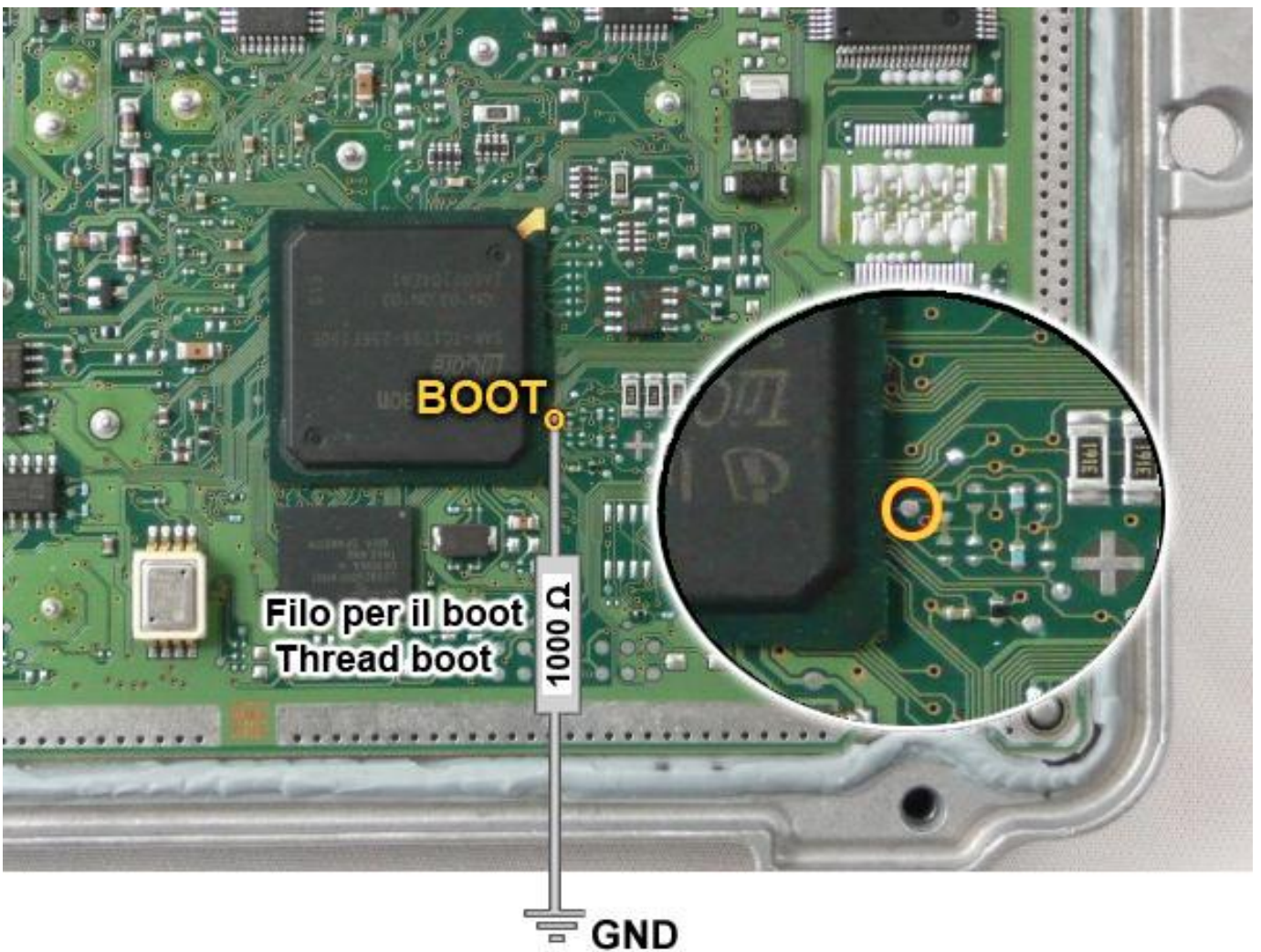


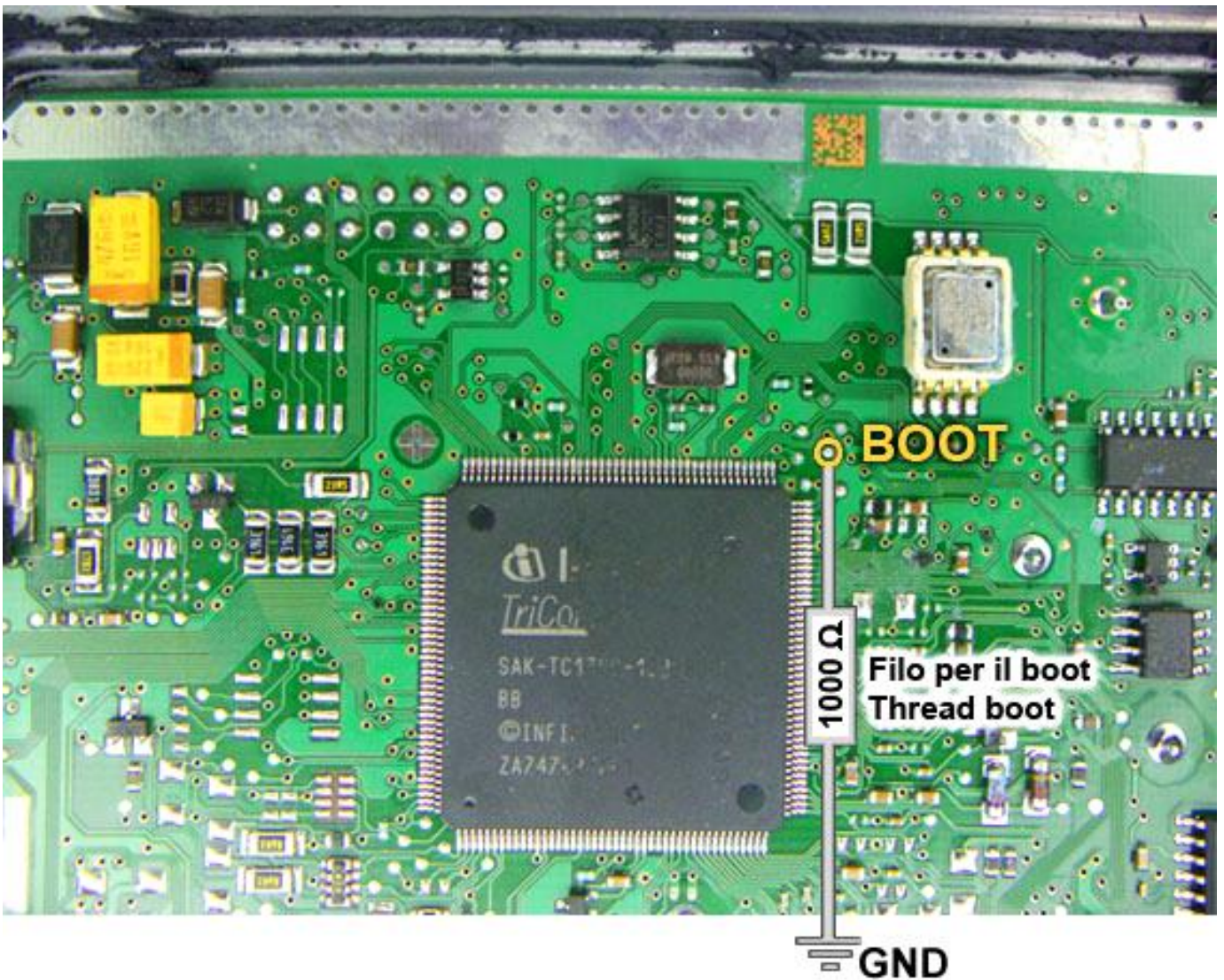


ECU EDC17 C41 - TC1797 Internal Flash
Mini, BMW, Citroen DS3

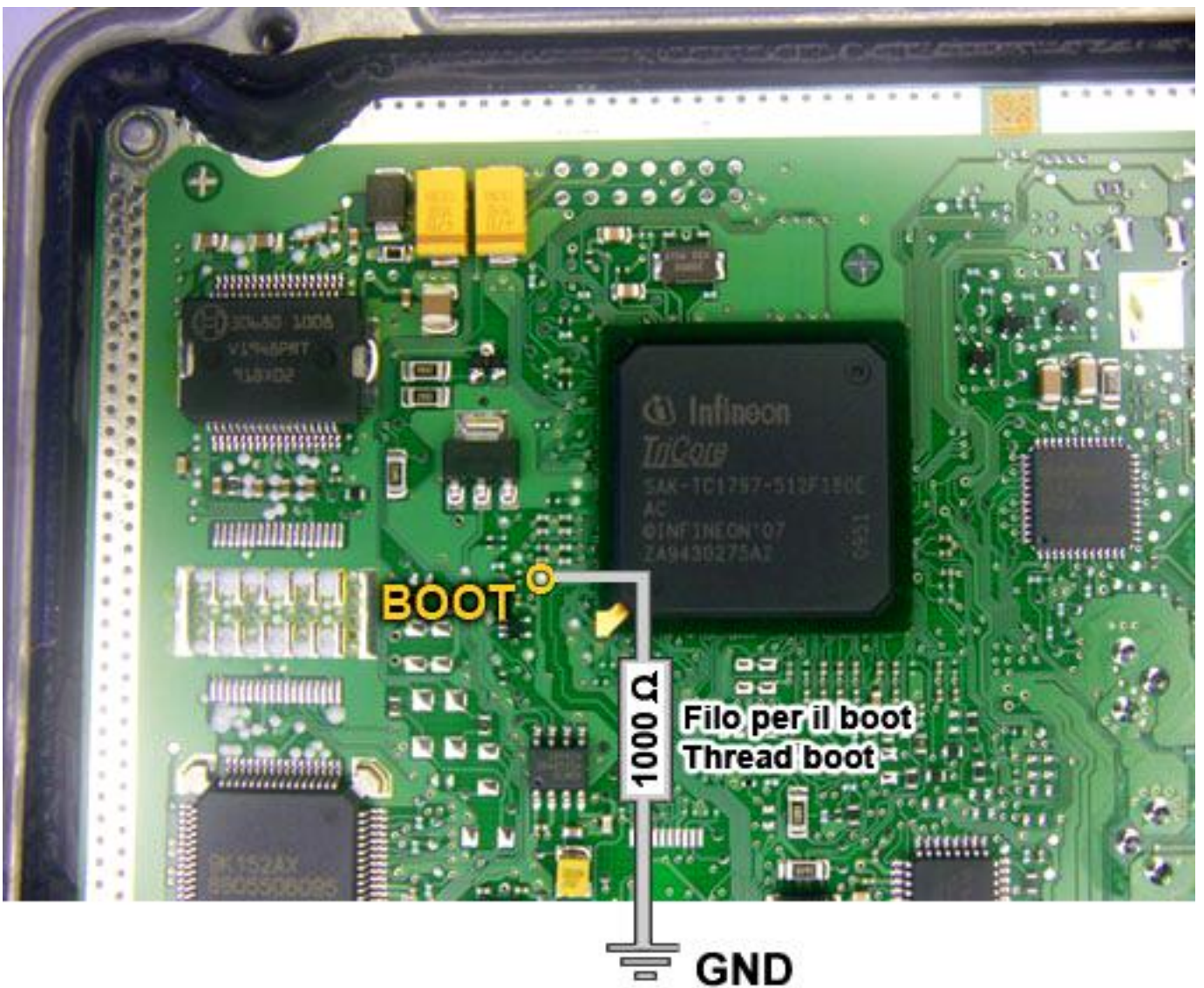


**ECU MEV 17.2 - TC1796 External Flash
(motore aspirato)**

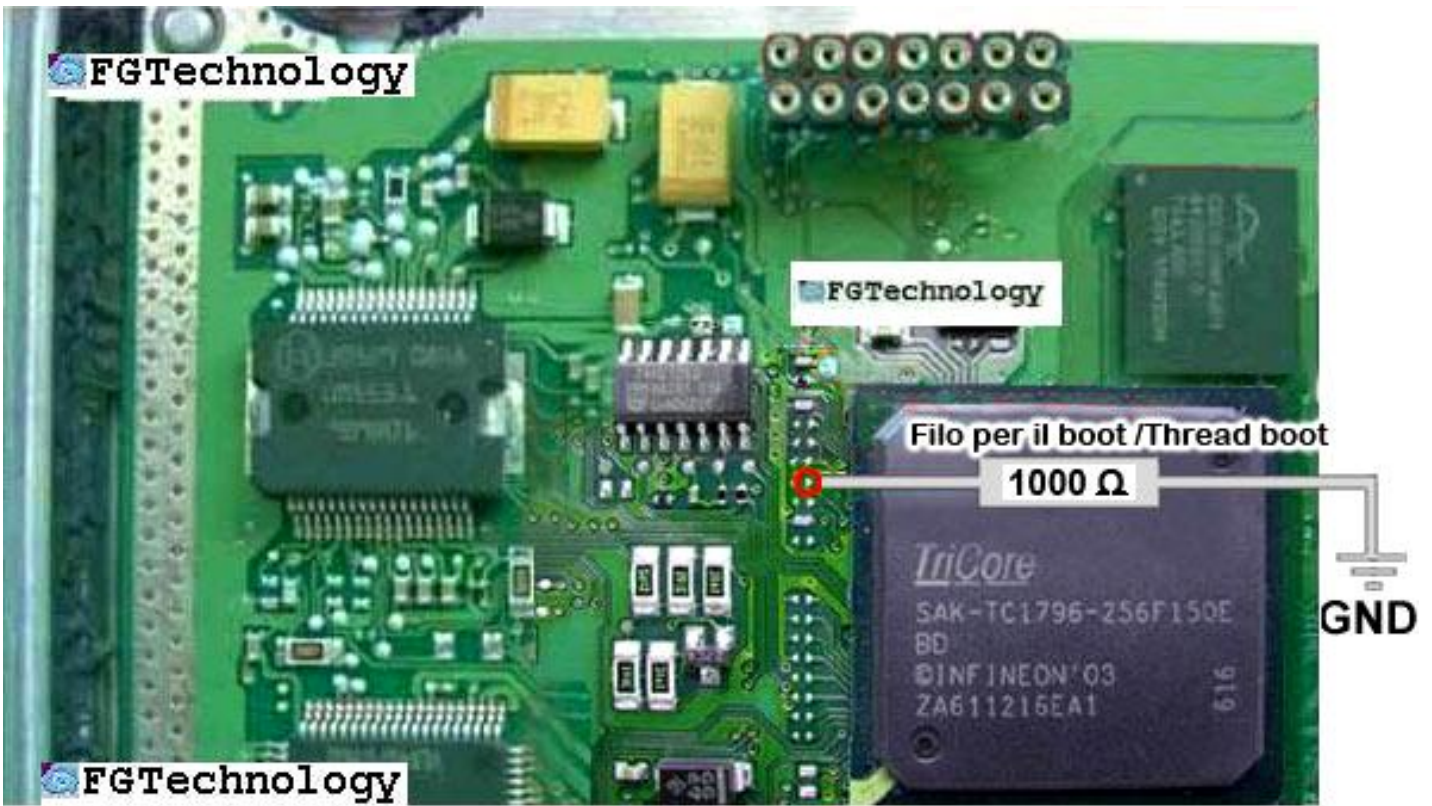
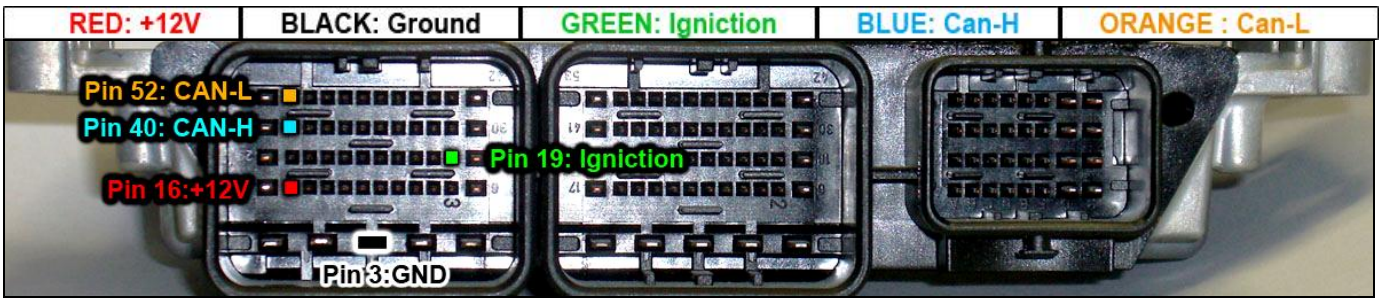




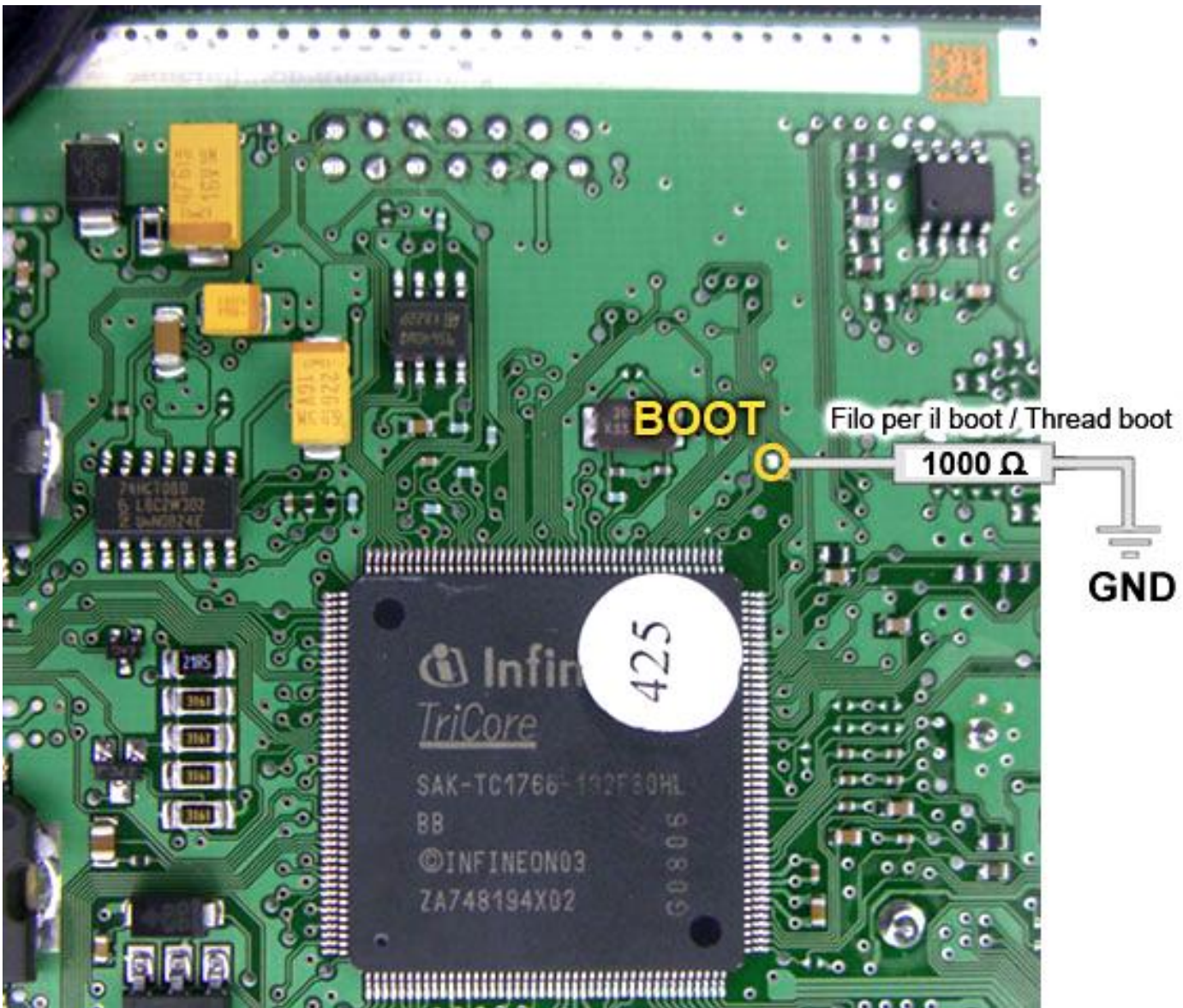
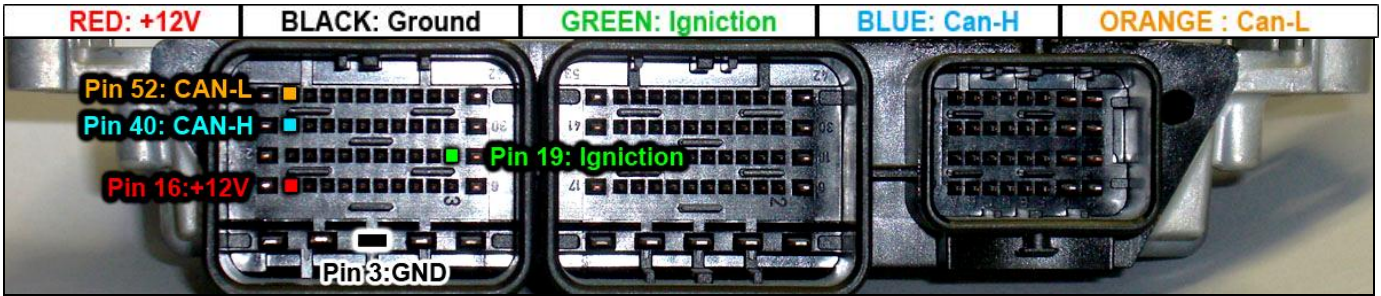
ECU MEVD1722 - Micro TC1797 - Internal Flash



ECU MED17 - TC1796 Internal-External Flash

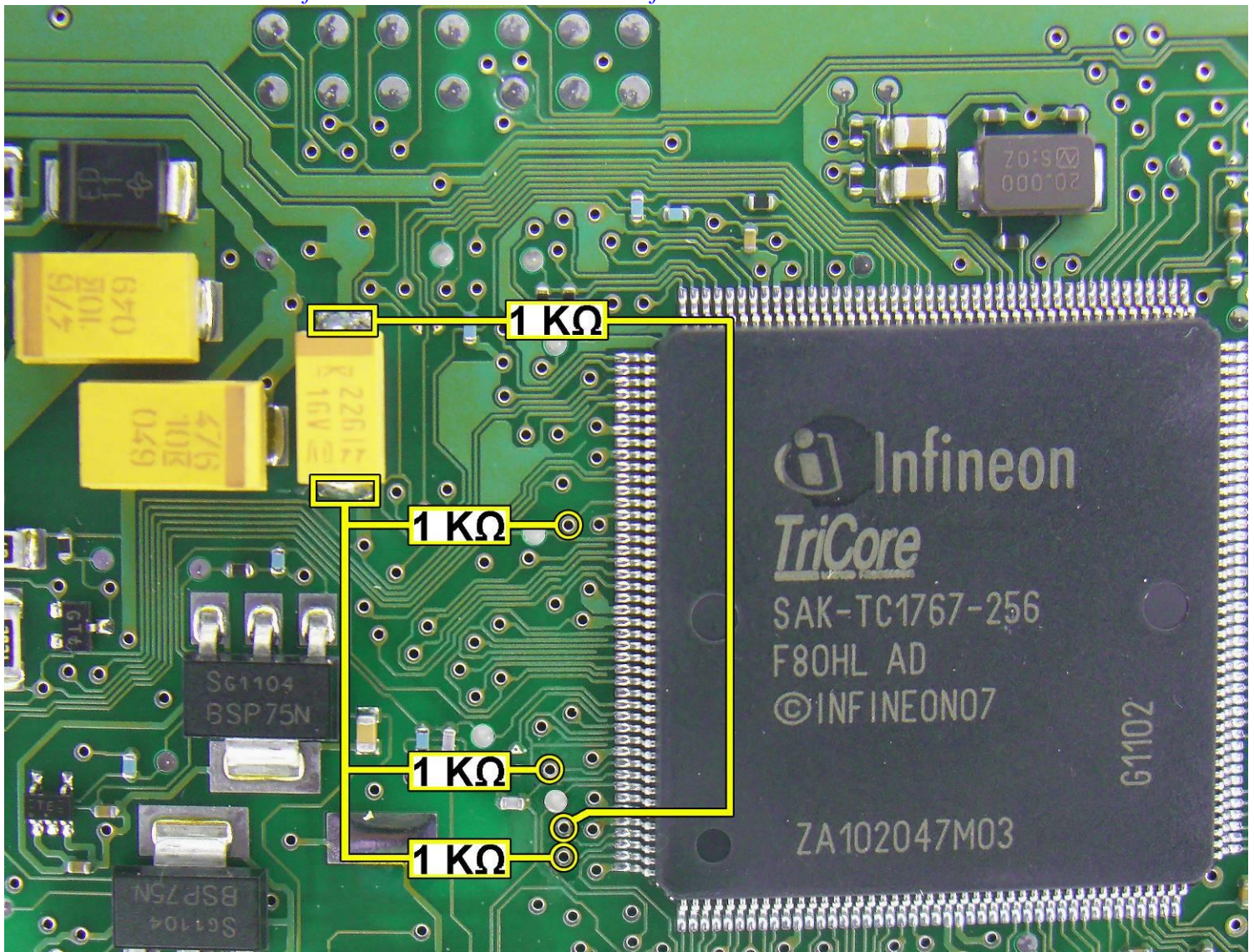


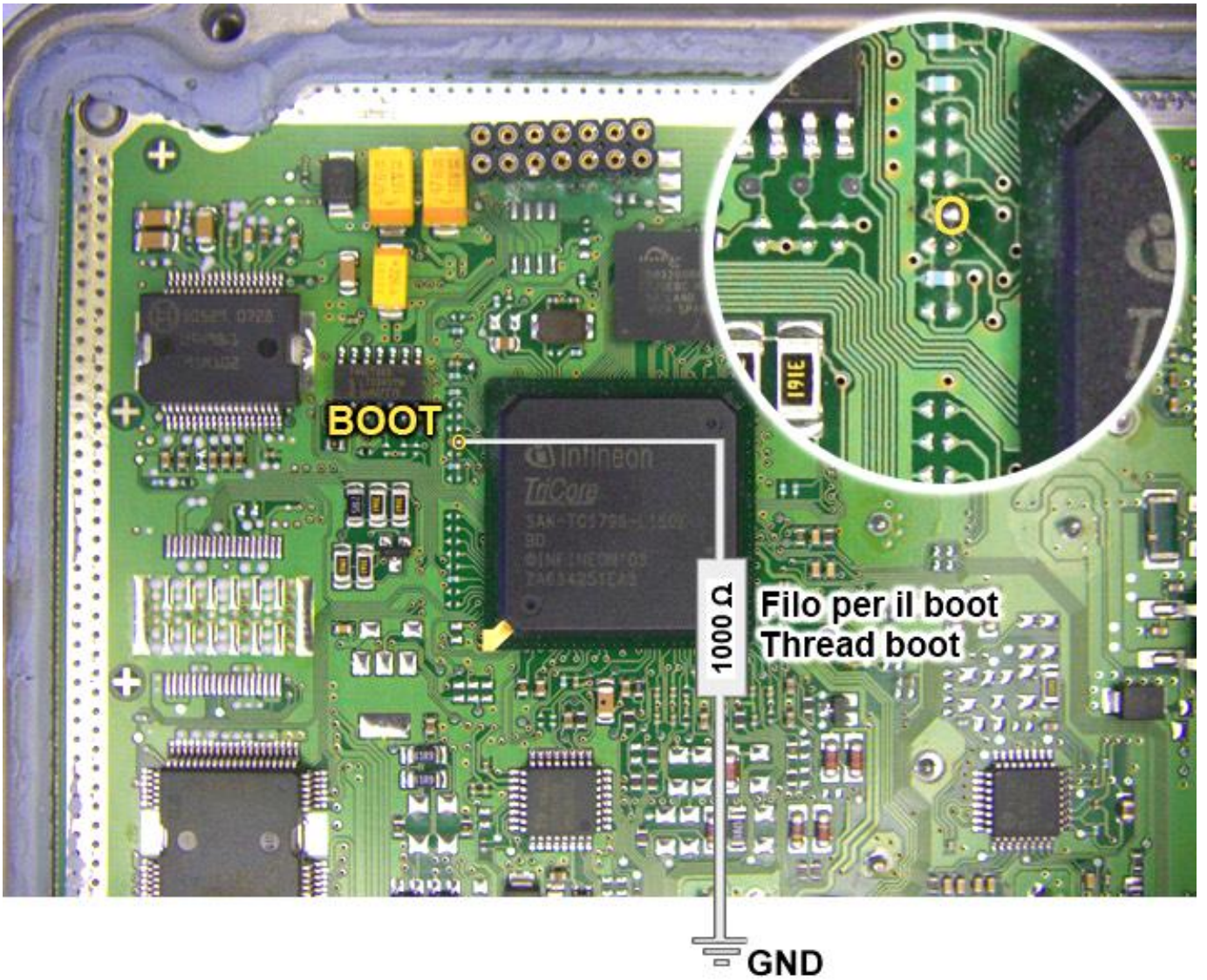
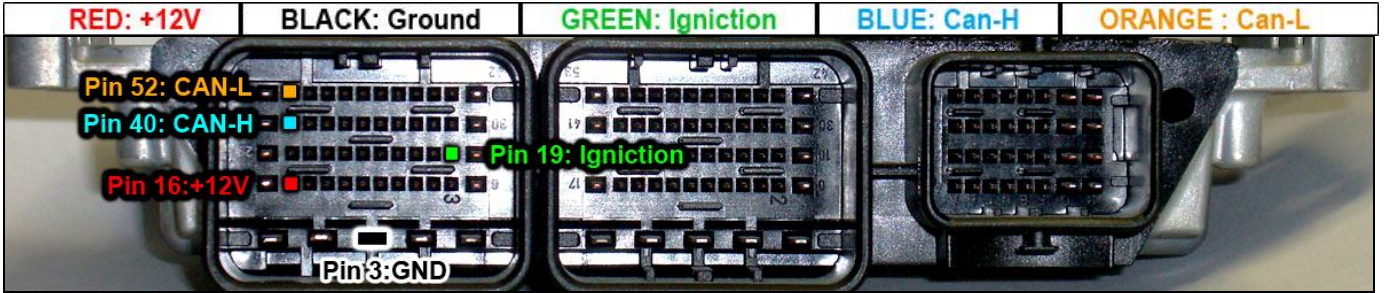
ECU MED17 - TC1766 Internal Flash



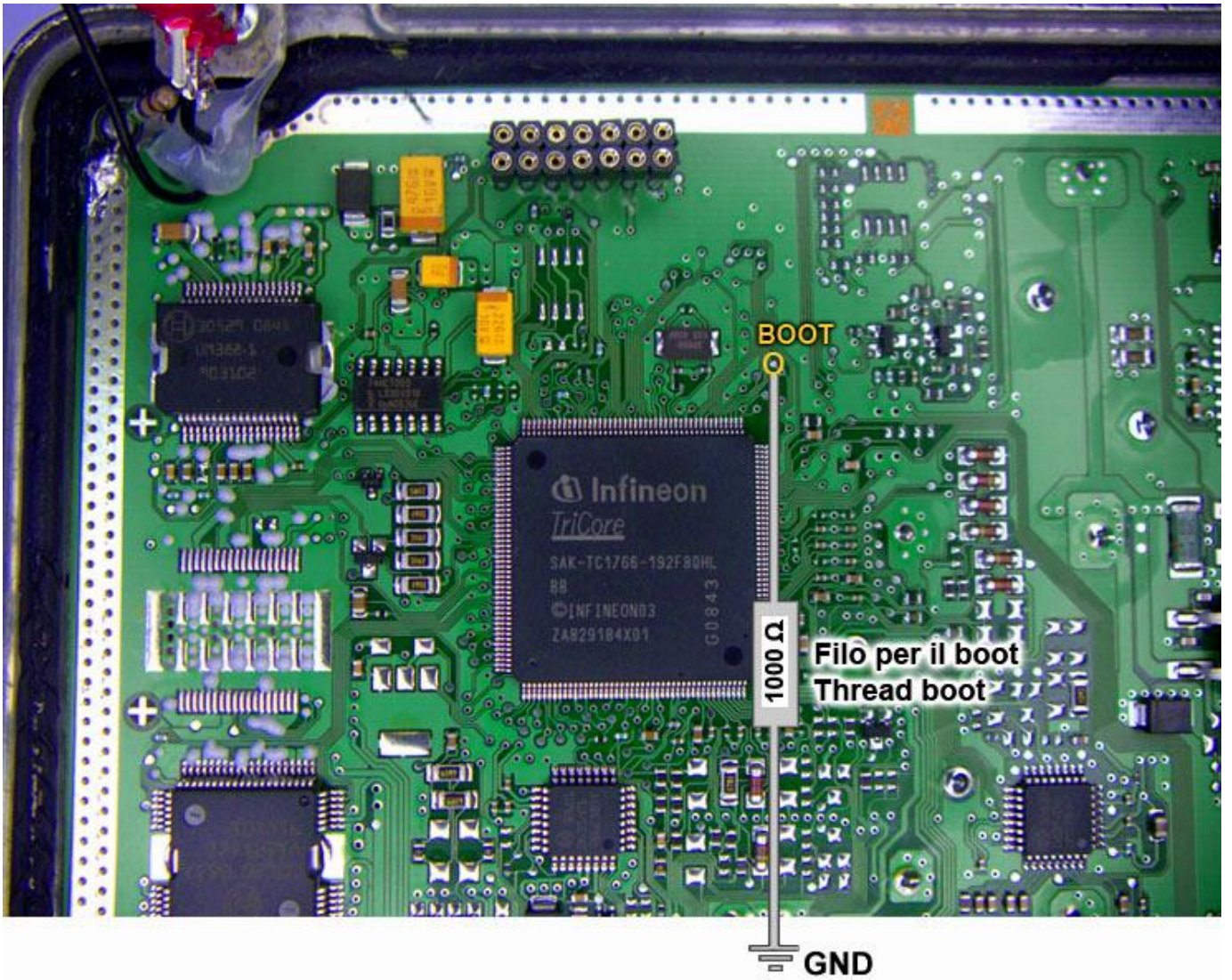
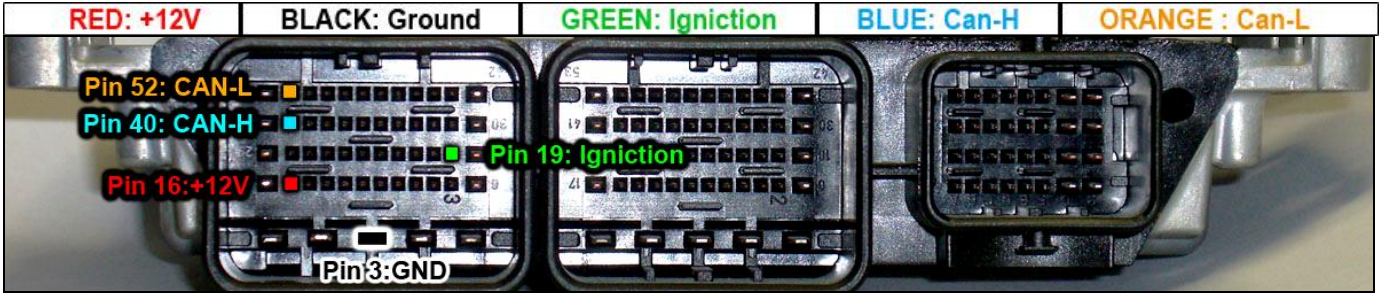


Questa centralina si mette in Boot Mode utilizzando 4 resistenze da 1000 Ohm:
This is the Boot Mode for this ECU used 4 resistance of 1000 Ohm:



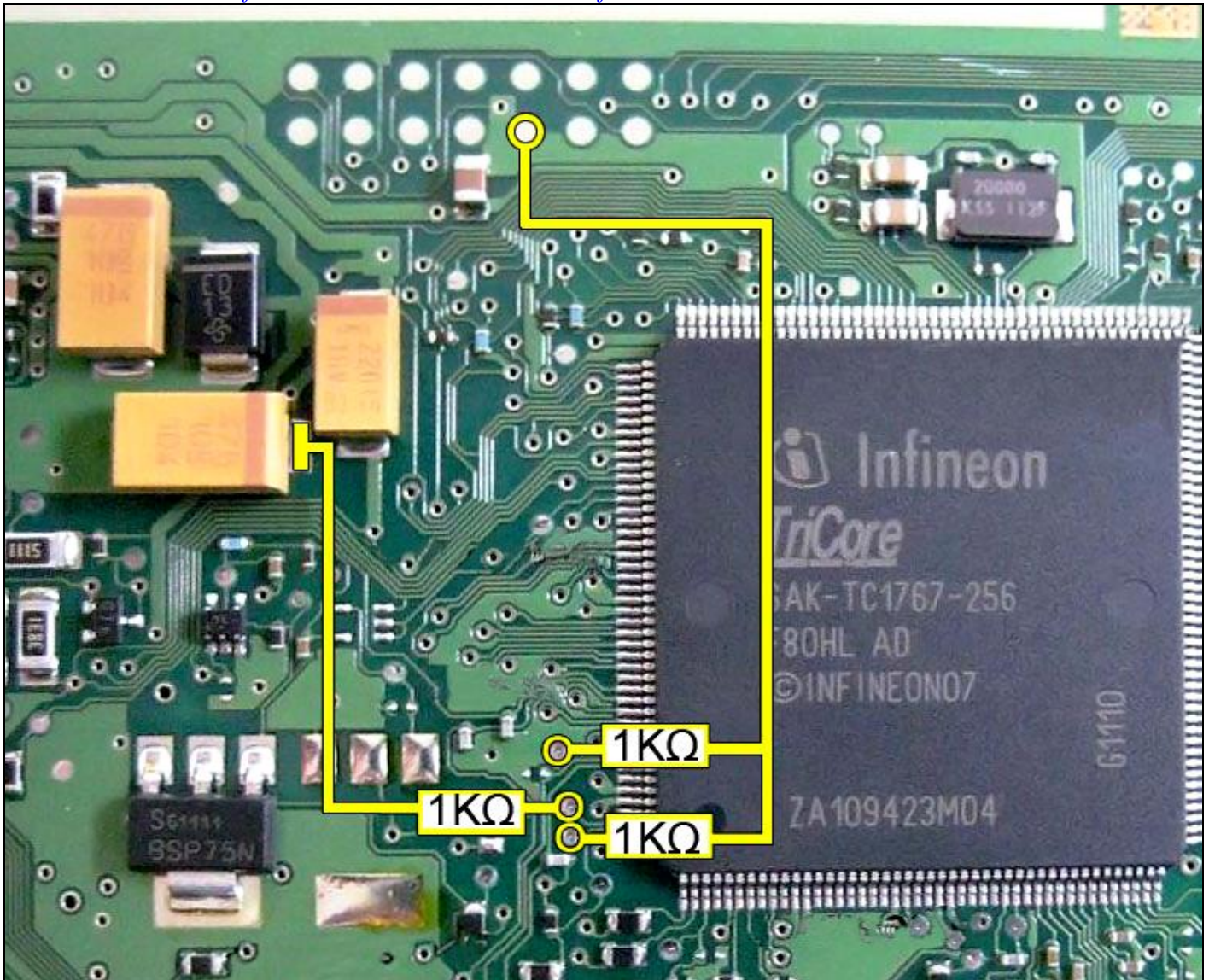


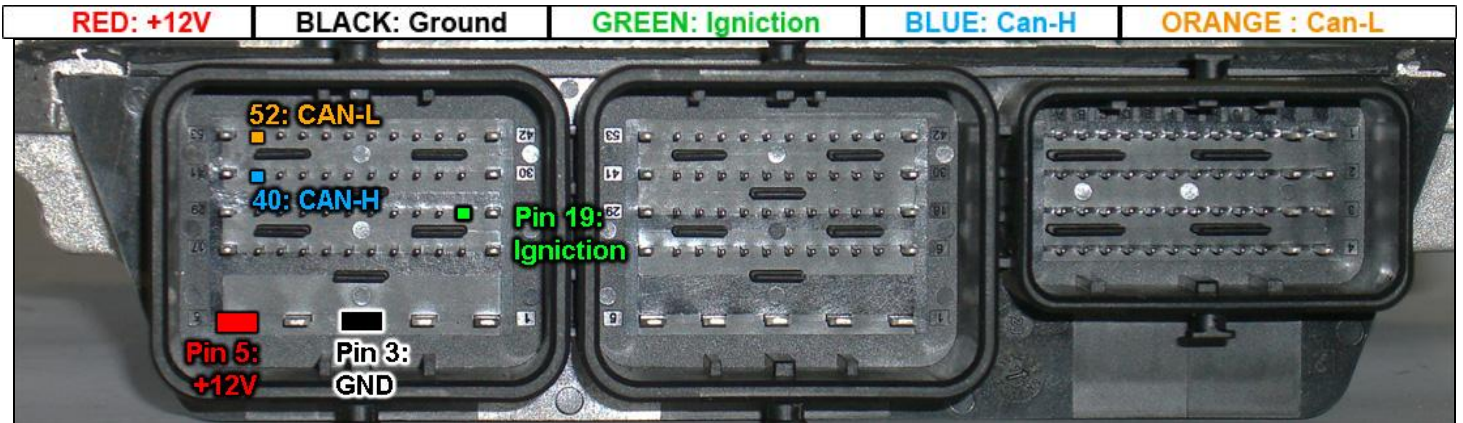
ECU MED17.4 - TC1766 Internal Flash



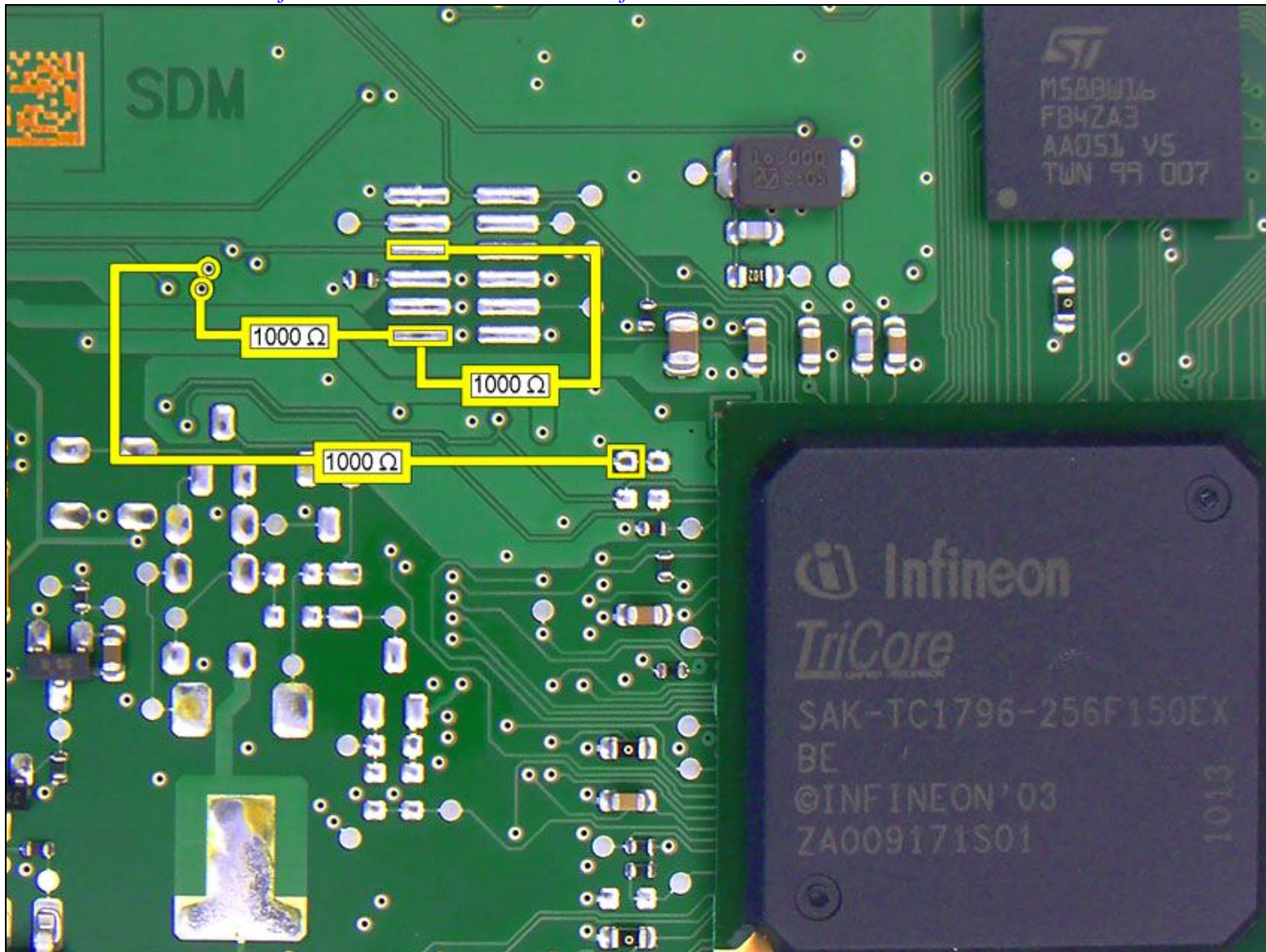


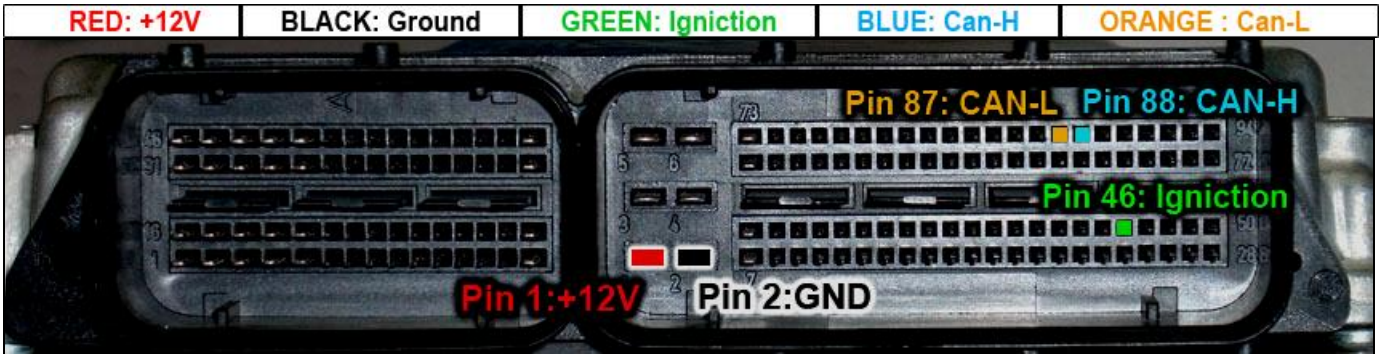
Questa centralina si mette in Boot Mode utilizzando 3 resistenze da 1000 Ohm:
This is the Boot Mode for this ECU used 3 resistance of 1000 Ohm:



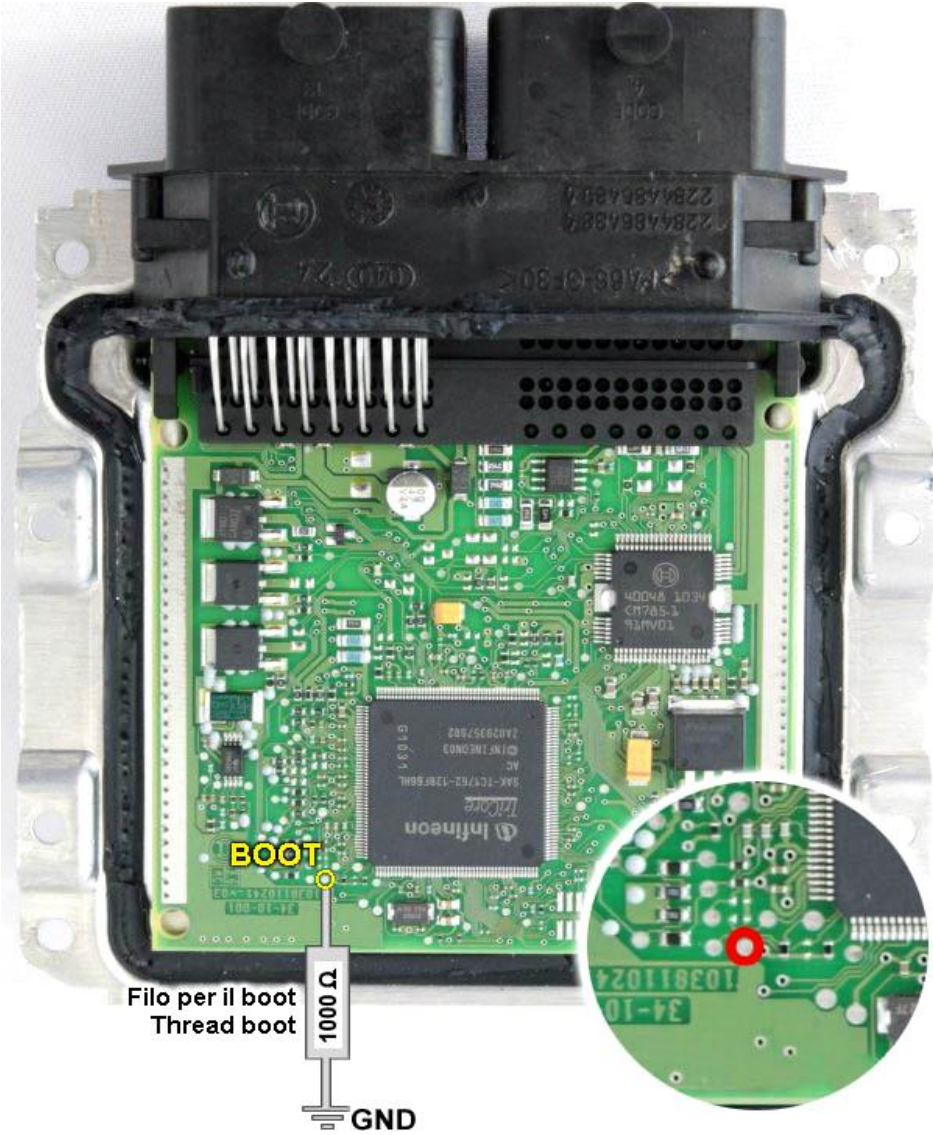
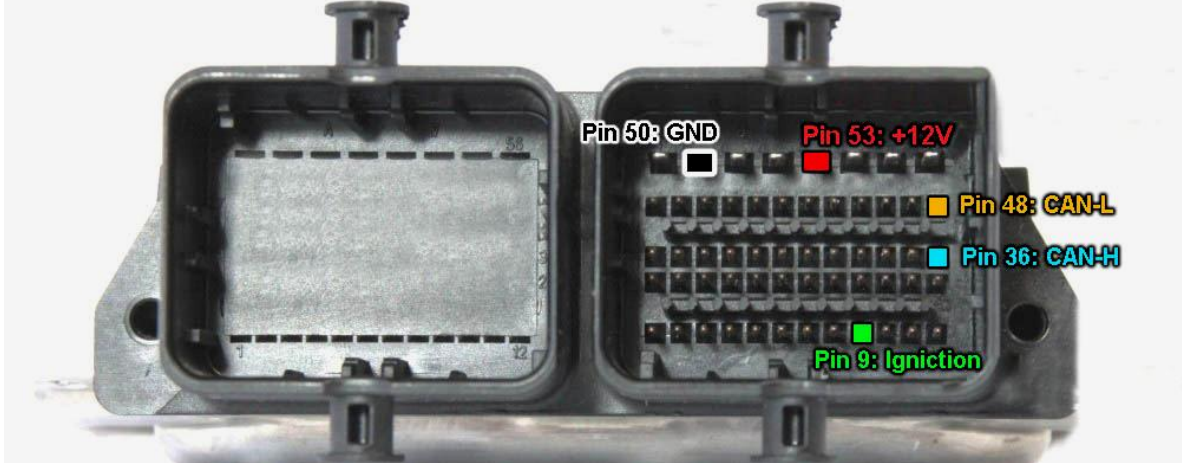


Questa centralina si mette in Boot Mode utilizzando 3 resistenze da 1000 Ohm:
This is the Boot Mode for this ECU used 3 resistance of 1000 Ohm:



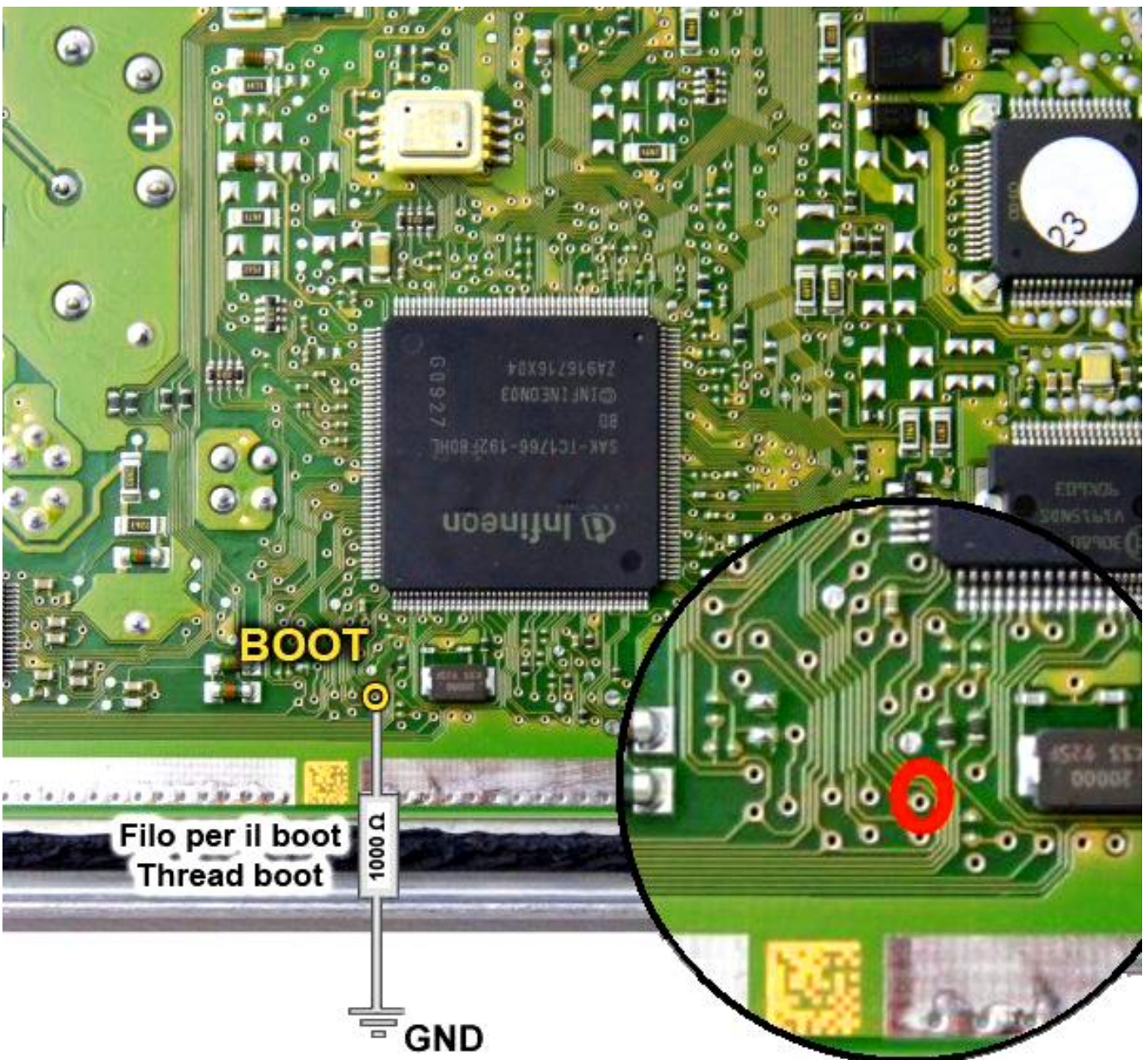
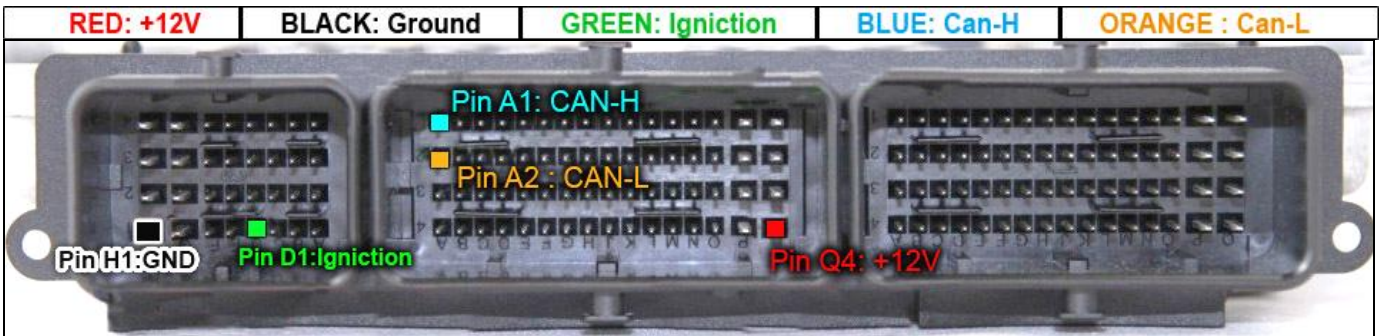


RED: +12V	BLACK: Ground	GREEN: Ignition	BLUE: Can-H	ORANGE : Can-L
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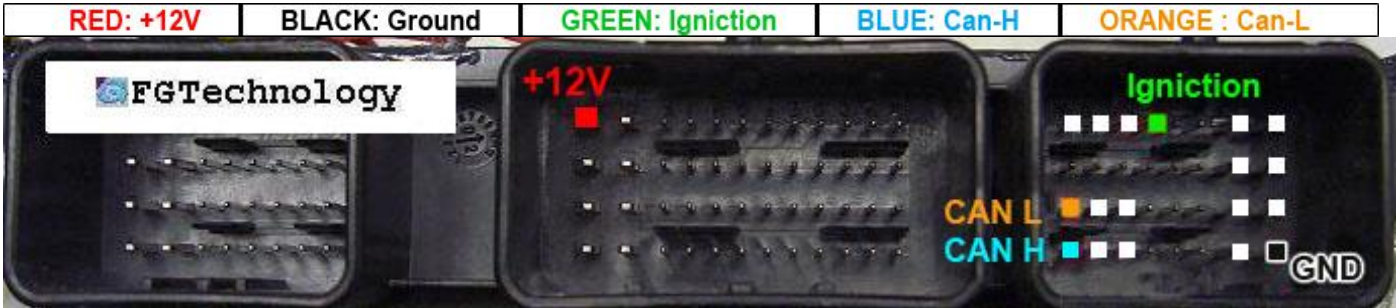


ECU EDC17 CP19 - TC1766 Internal Flash



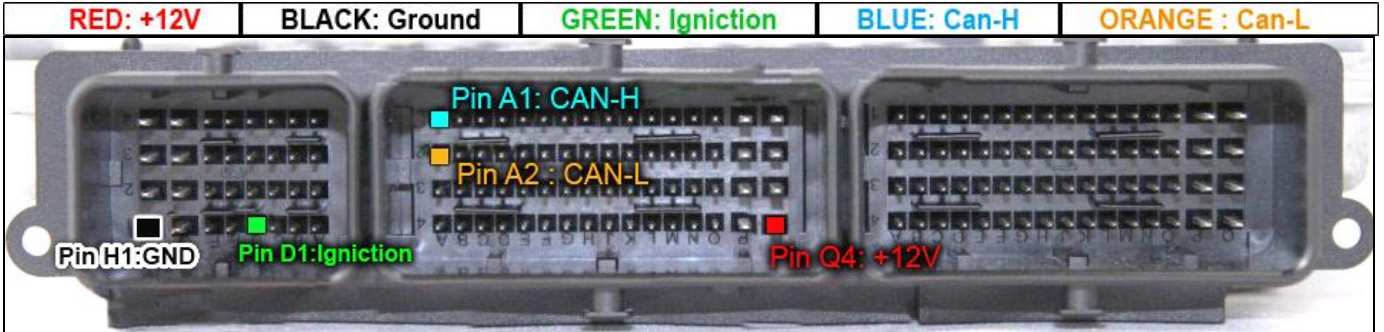


ECU EDC17C11 - TC1766 Int. Flash - Renault Master 2.3 DCI 145 PS



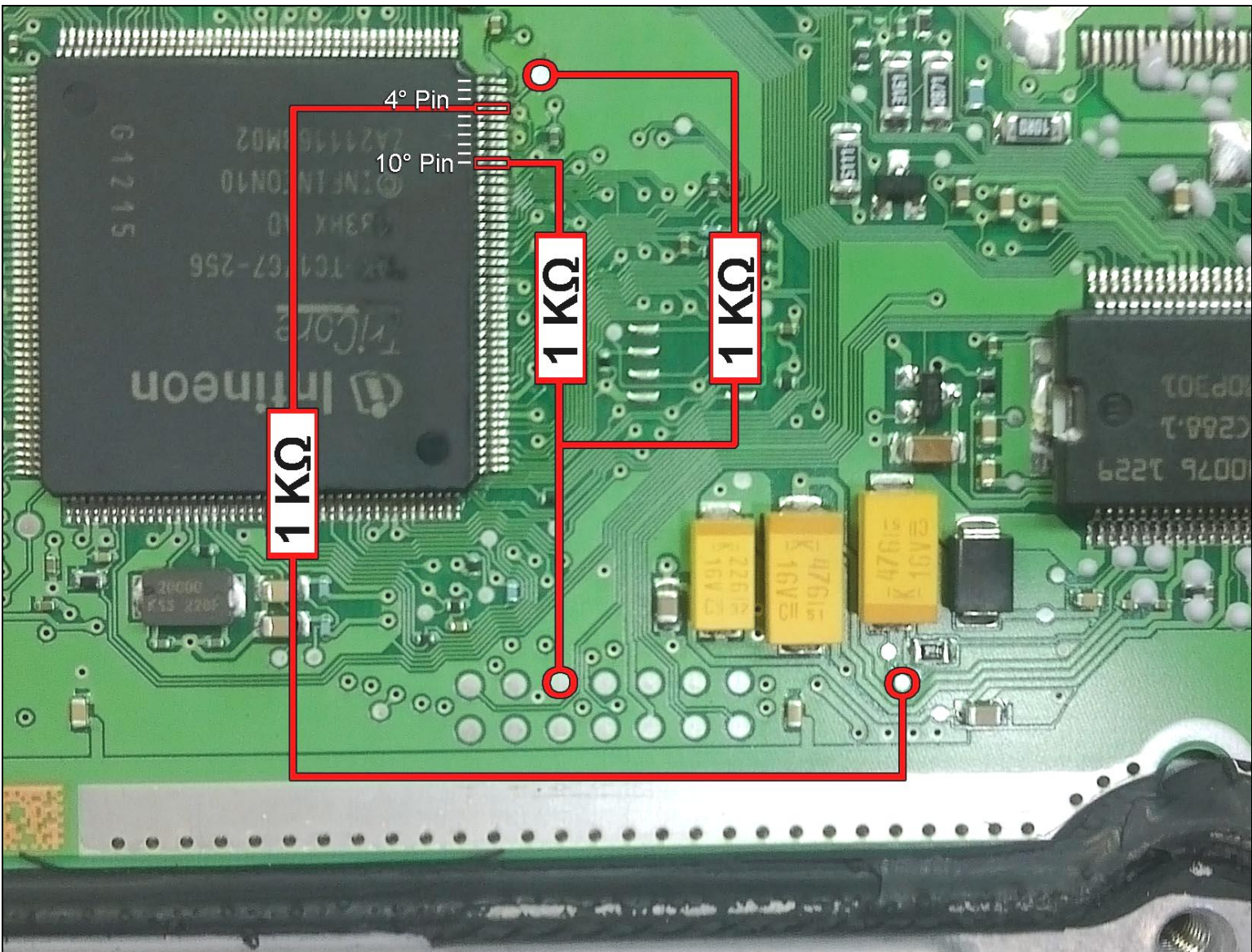
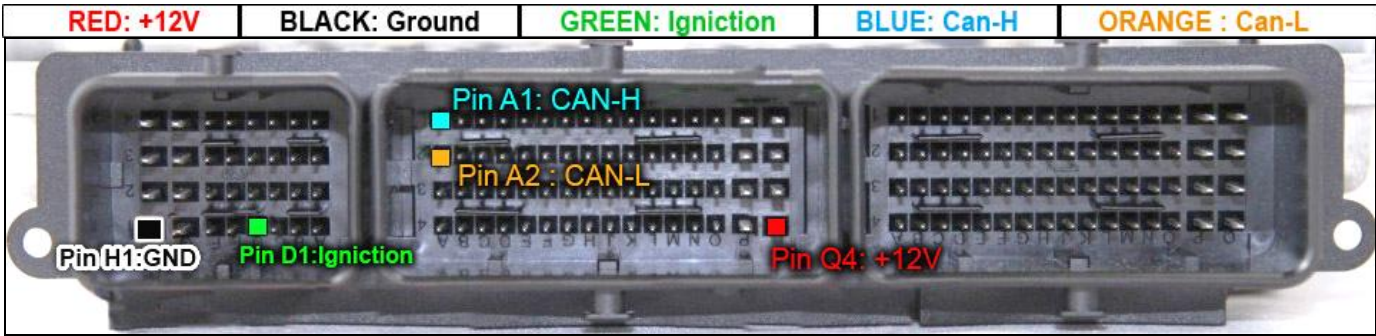


ECU EDC17 C11- TC1766 Internal Flash



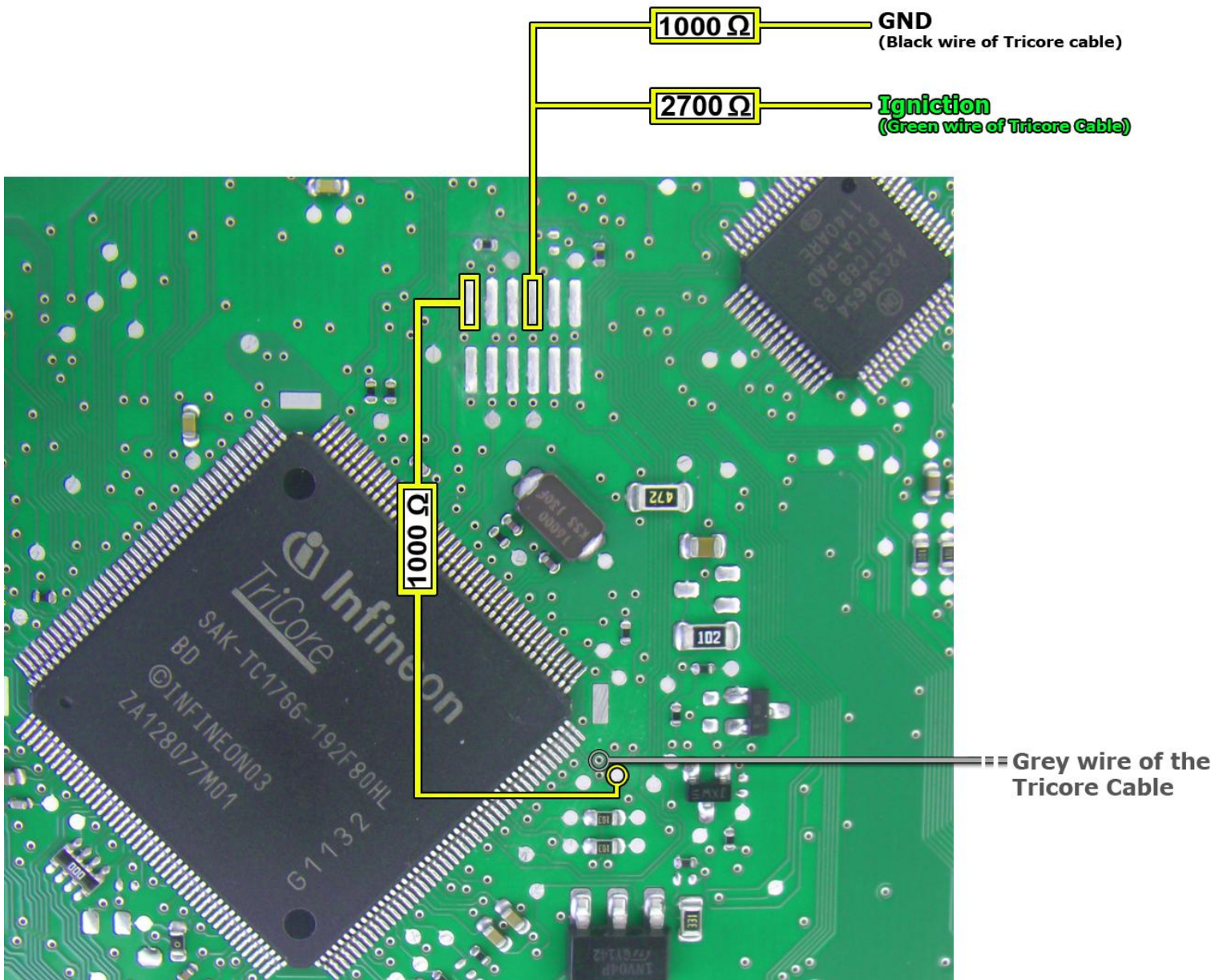
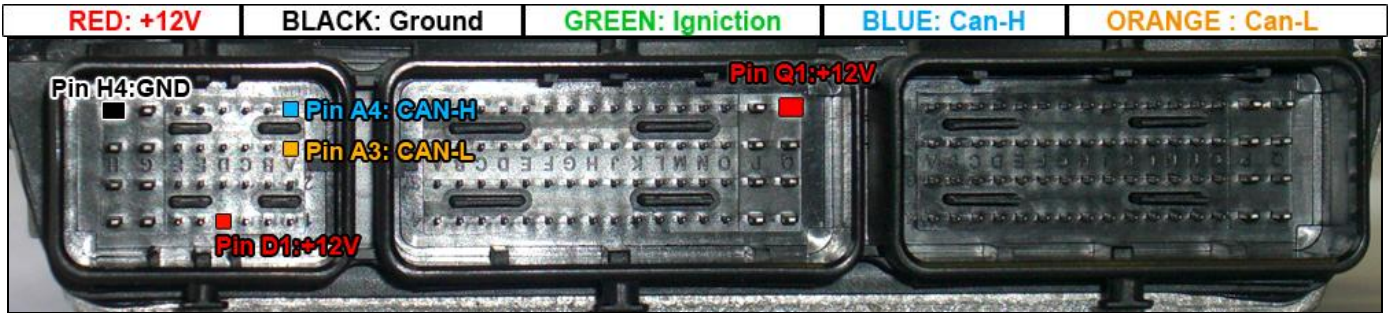


ECU EDC17 C42 - TC1767 Internal Flash





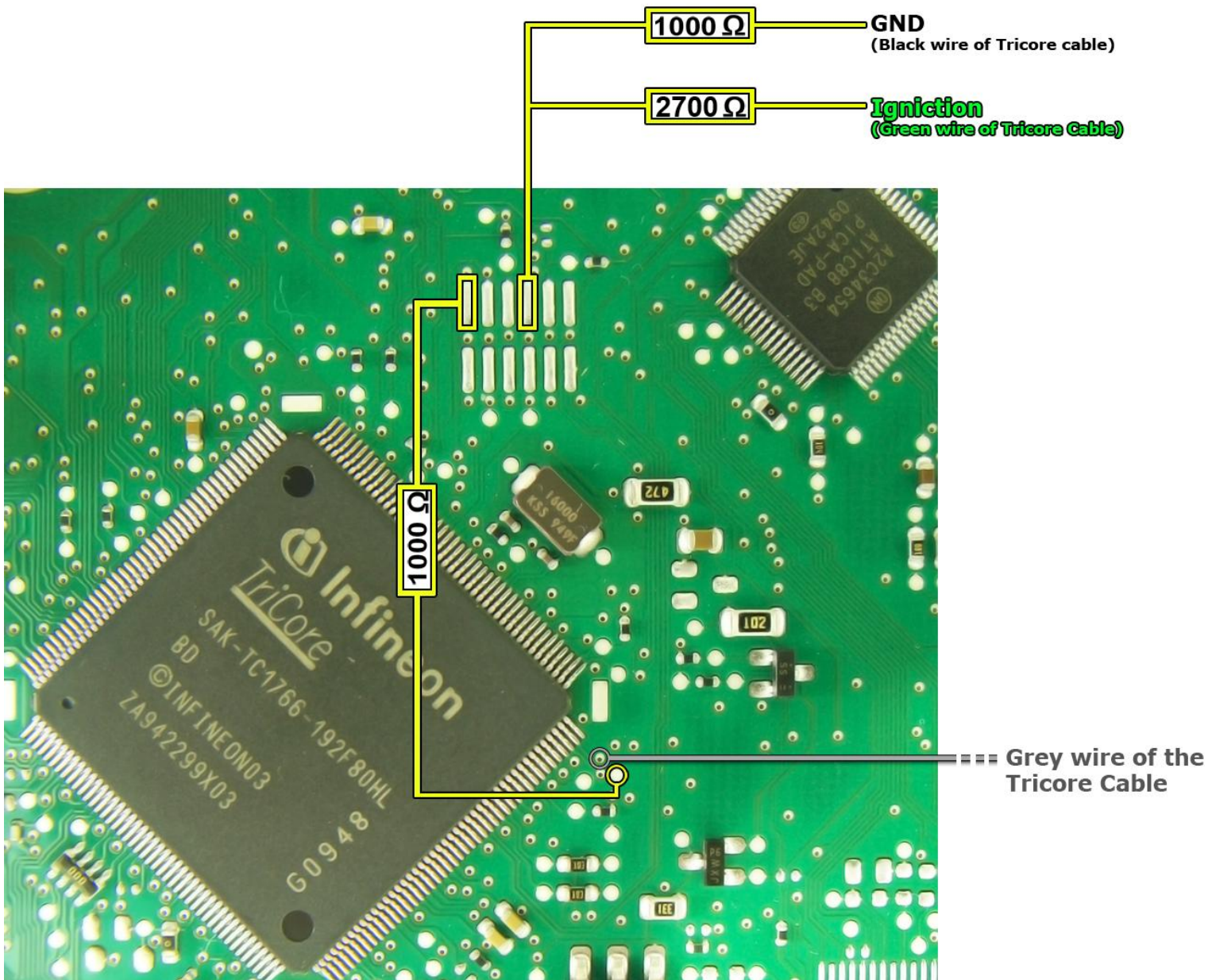
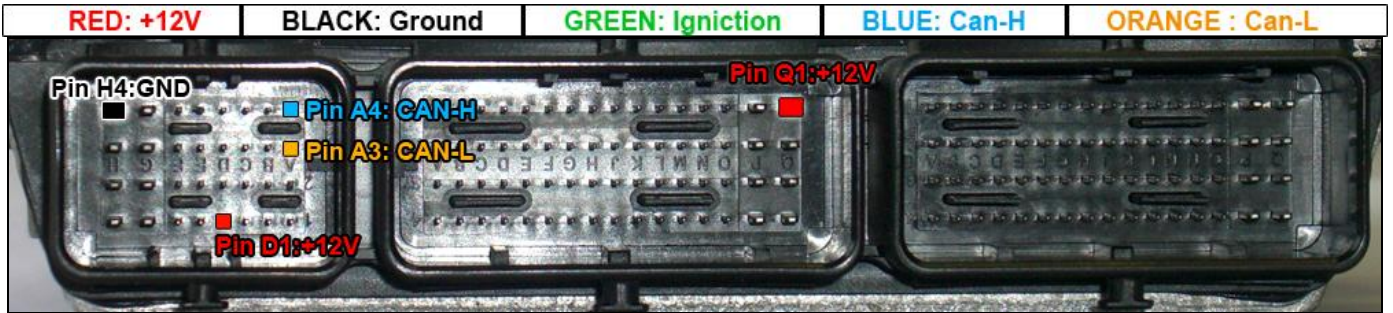
ECU Siemens Continental SID305 HW01 - TC1766 Internal Flash



↑

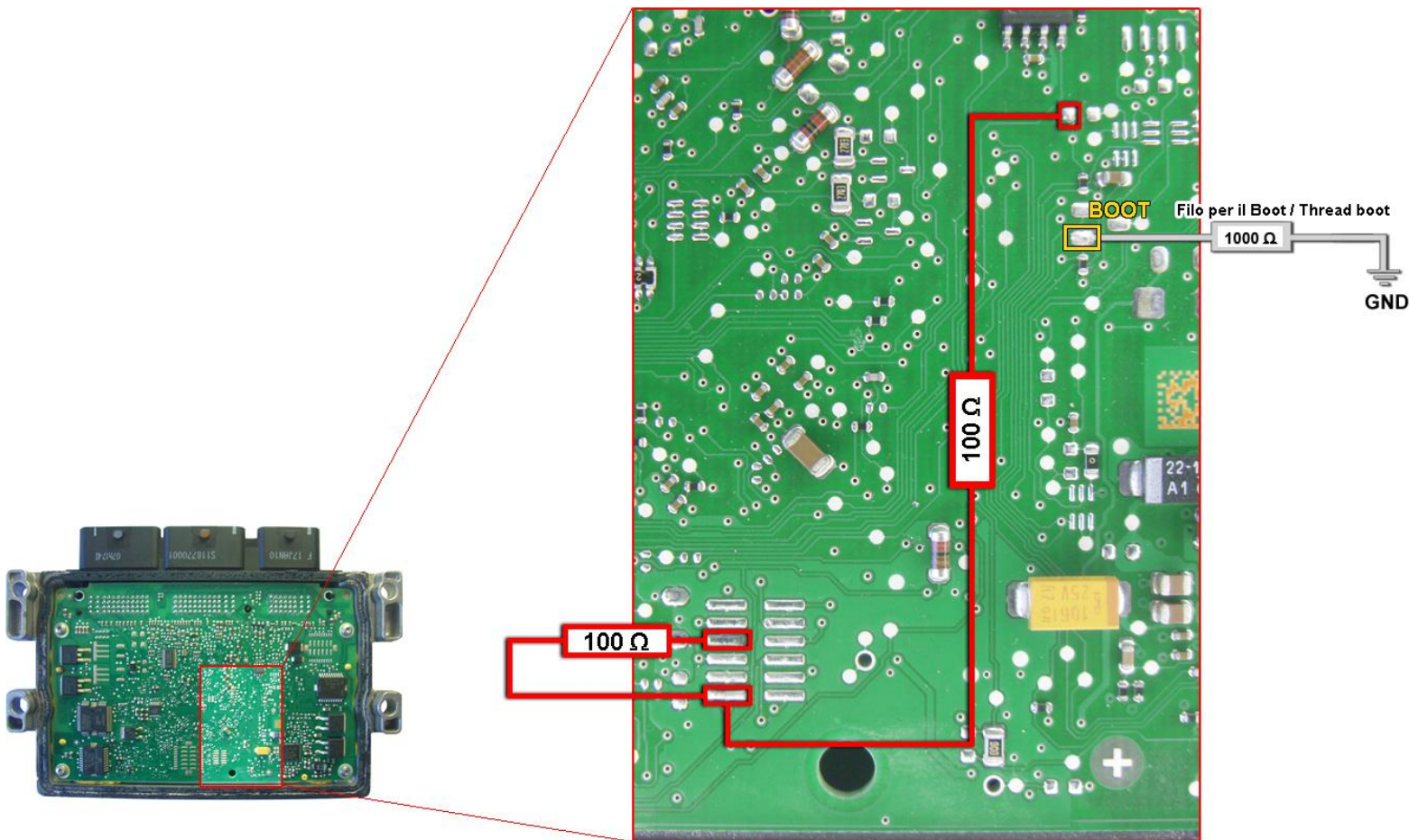
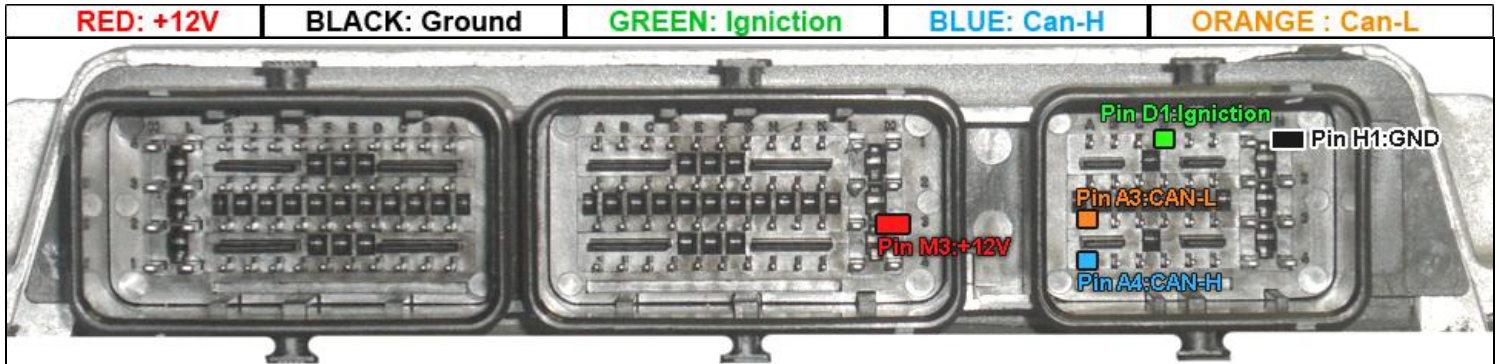


ECU Siemens Continental SID305 HW02 - TC1766 Internal Flash



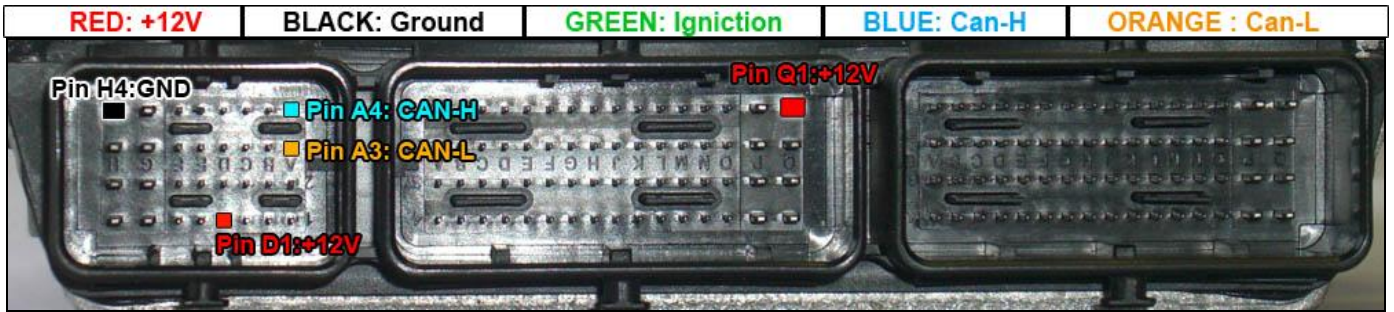


ECU Siemens Continental EMS 3110 - TC1766 Internal Flash

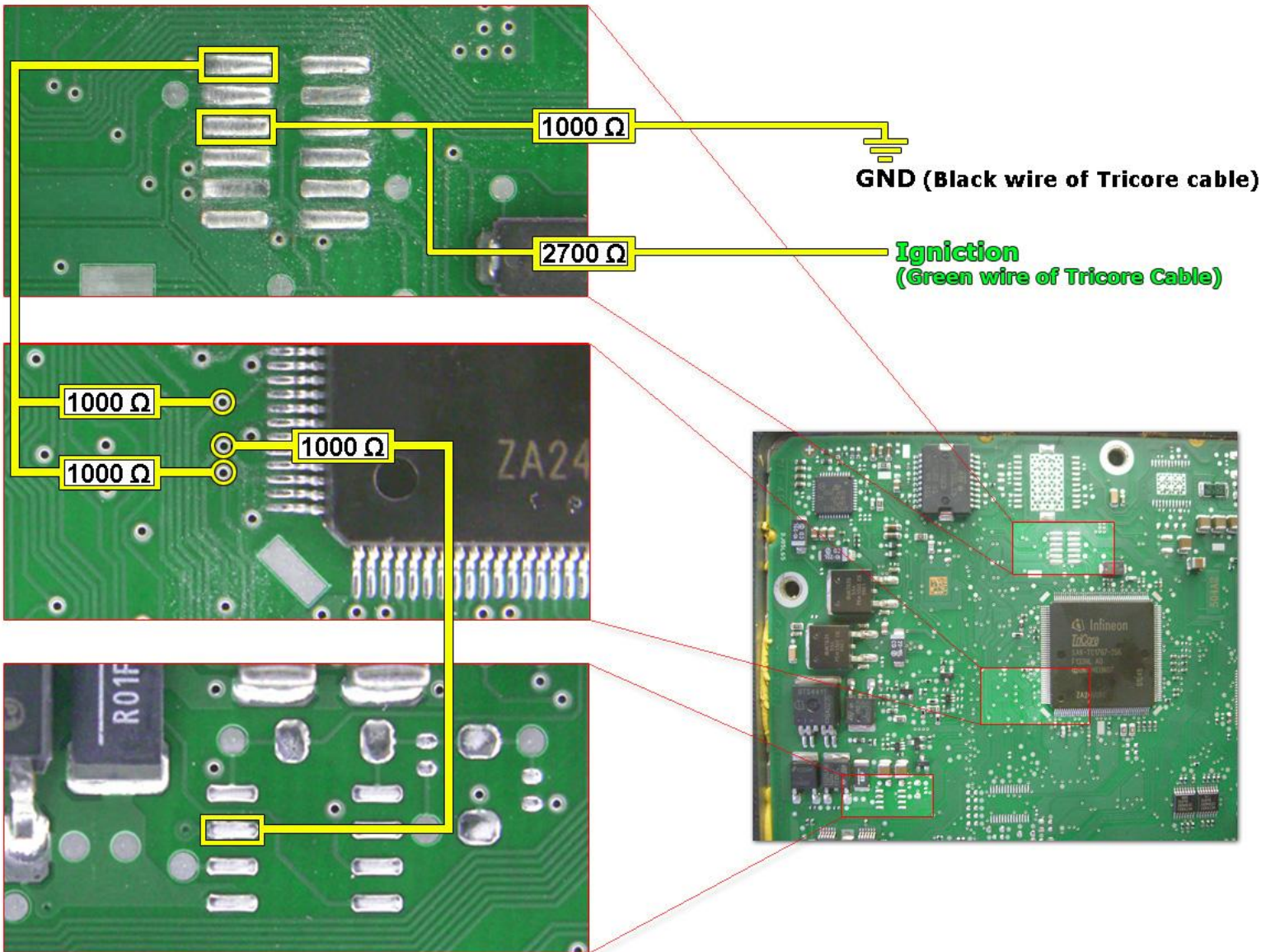


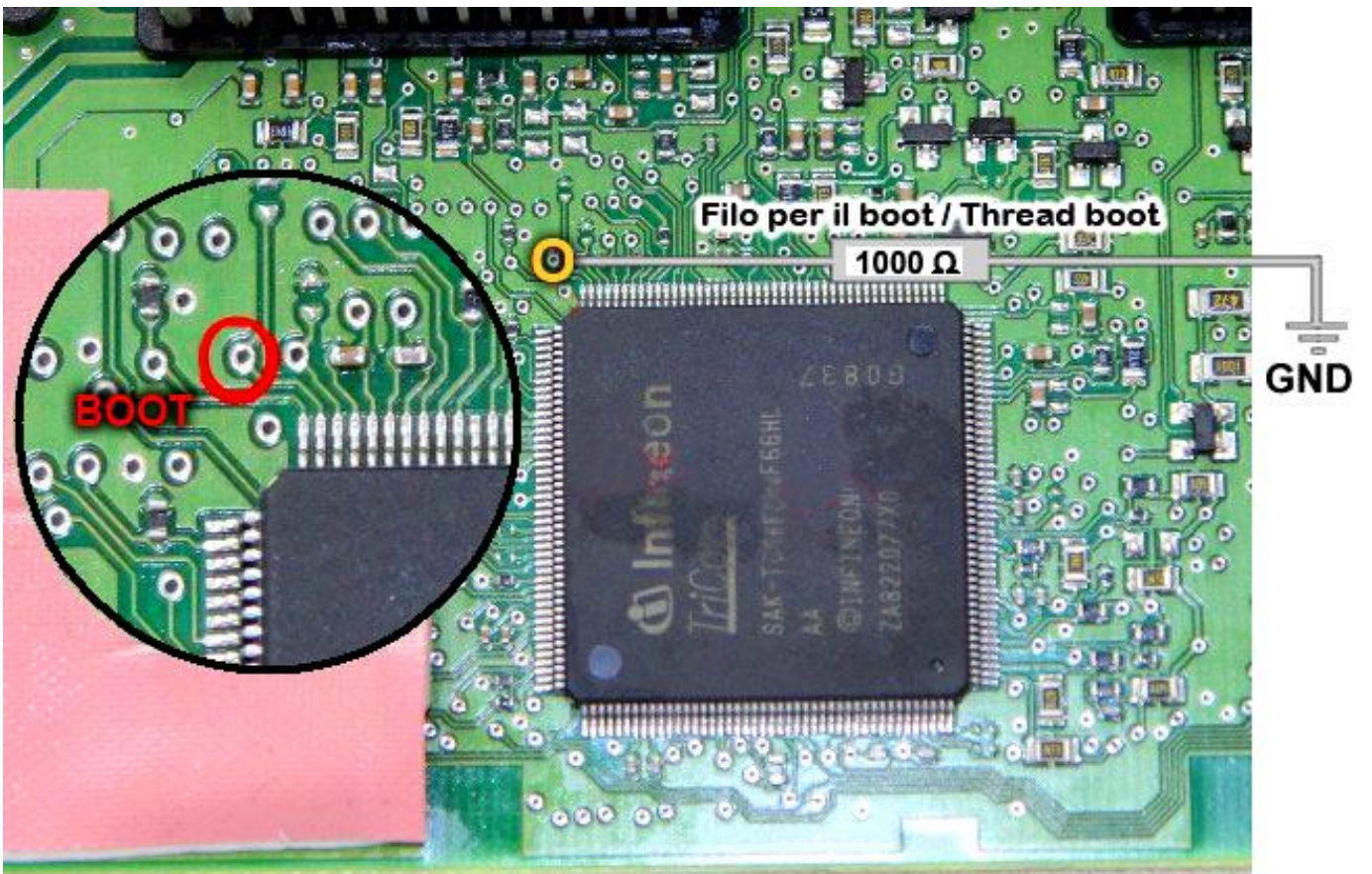


ECU Siemens Continental EMS 3150 - TC1767 Internal Flash *

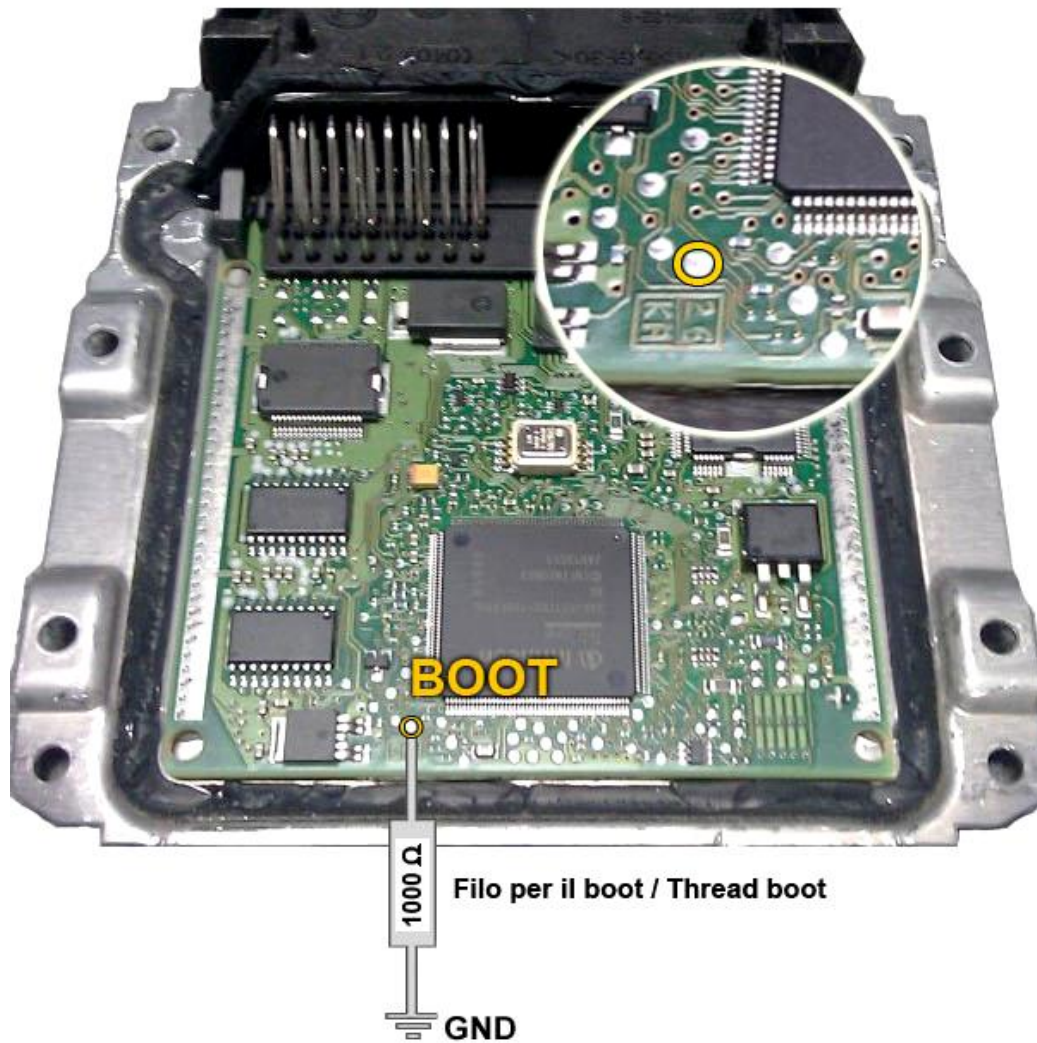
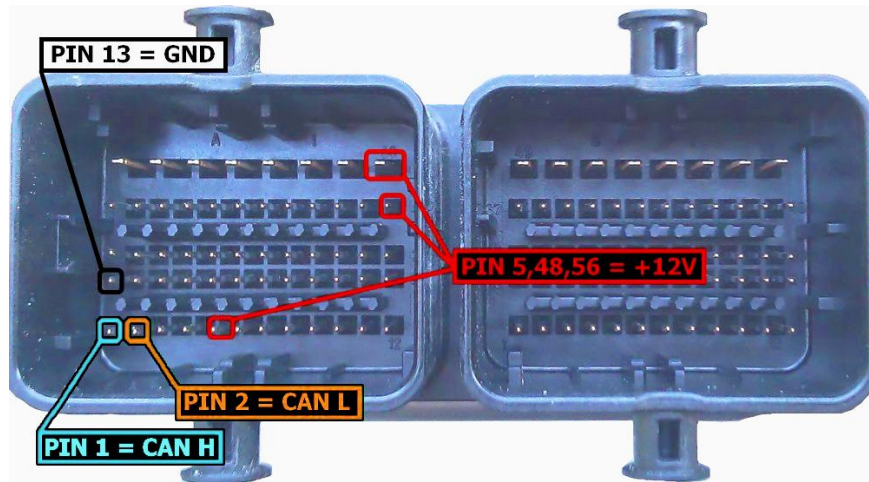


Questa centralina si mette in boot mode utilizzando 4 resistenze da 1000 Ohm e 1 resistenza da 2700 Ohm.
For boot mode of this ECU use 4 resistance of 1000 Ohm and 1 resistance of 2700 Ohm.

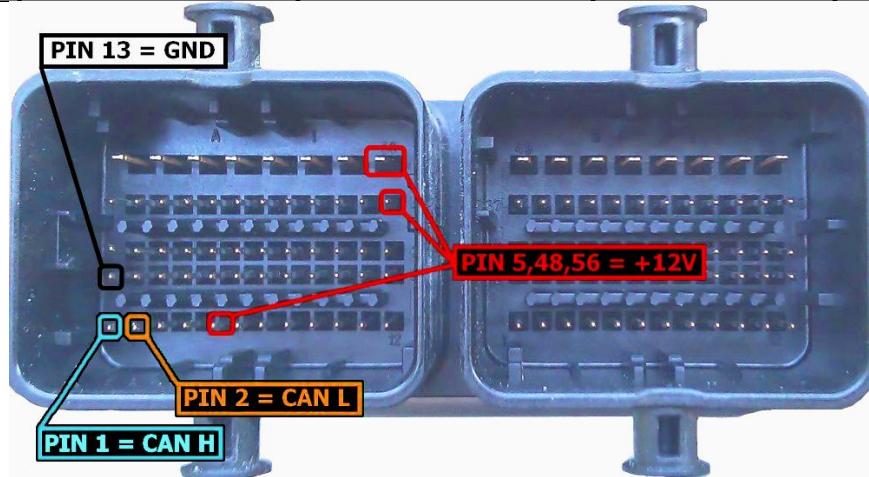




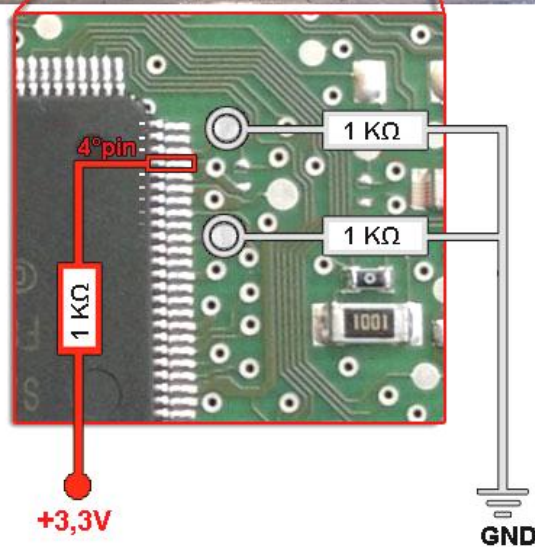
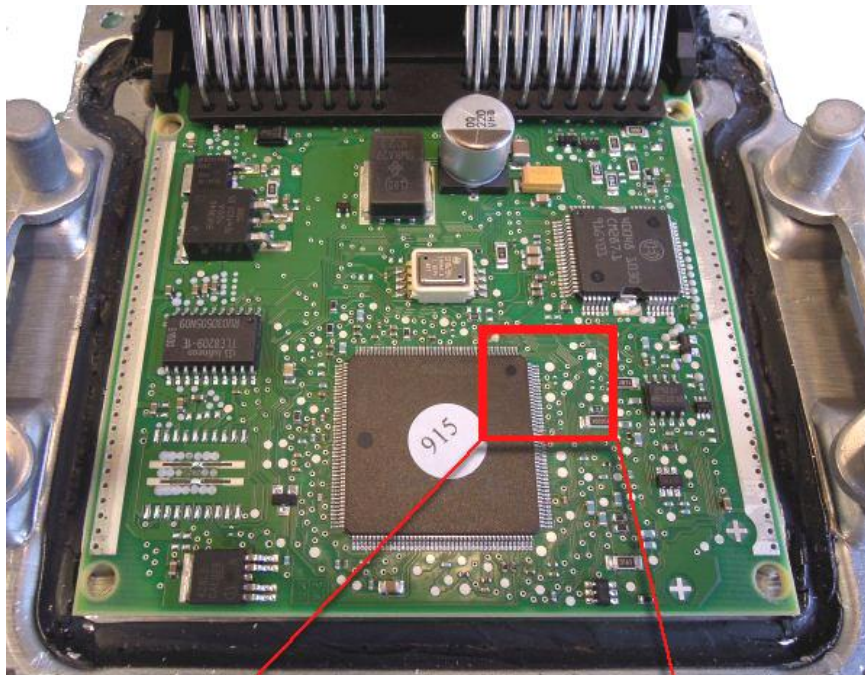
RED: +12V	BLACK: Ground	BLUE: Can-H	ORANGE : Can-L
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RED: +12V	BLACK: Ground	BLUE: Can-H	ORANGE : Can-L
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Questa ECU si mette in boot usando 3 resistenze da 1K Ω :
This ECU set to boot using 3 resistance of 1K Ω :



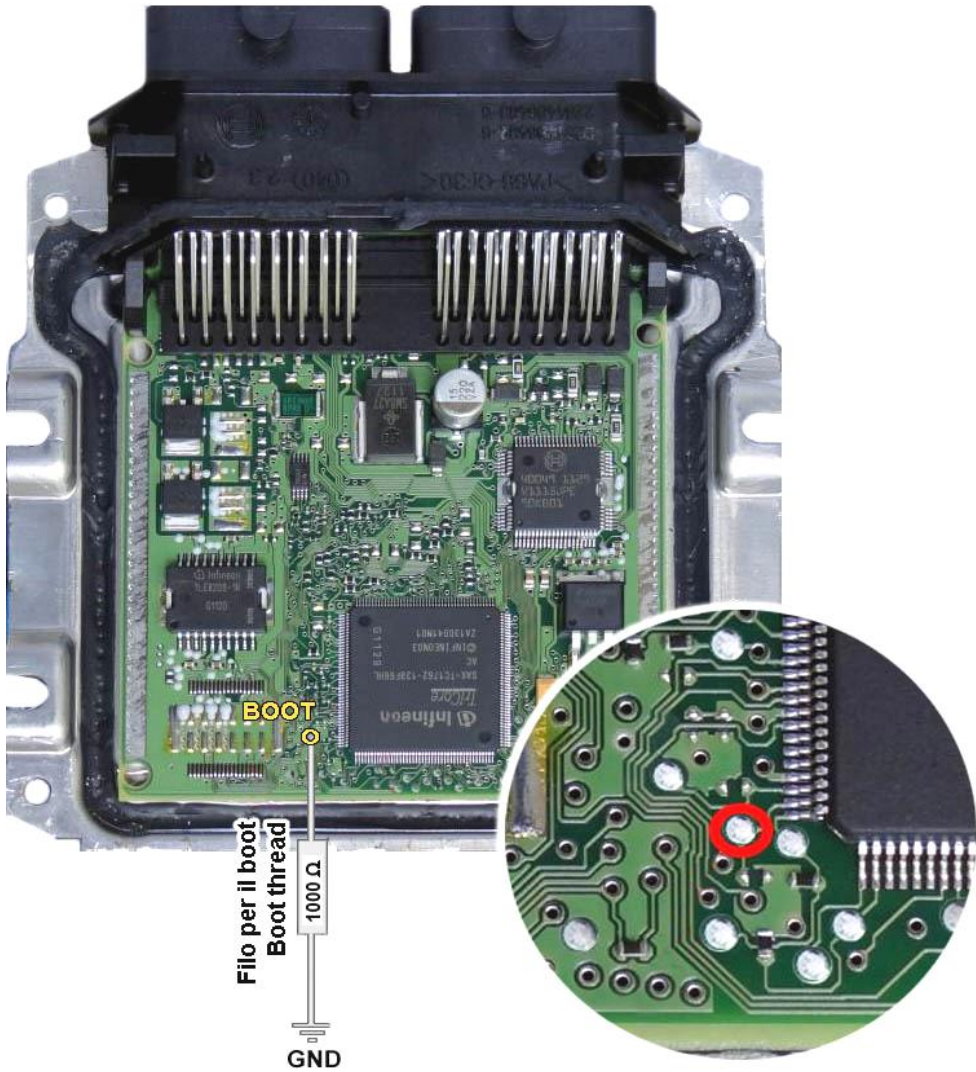
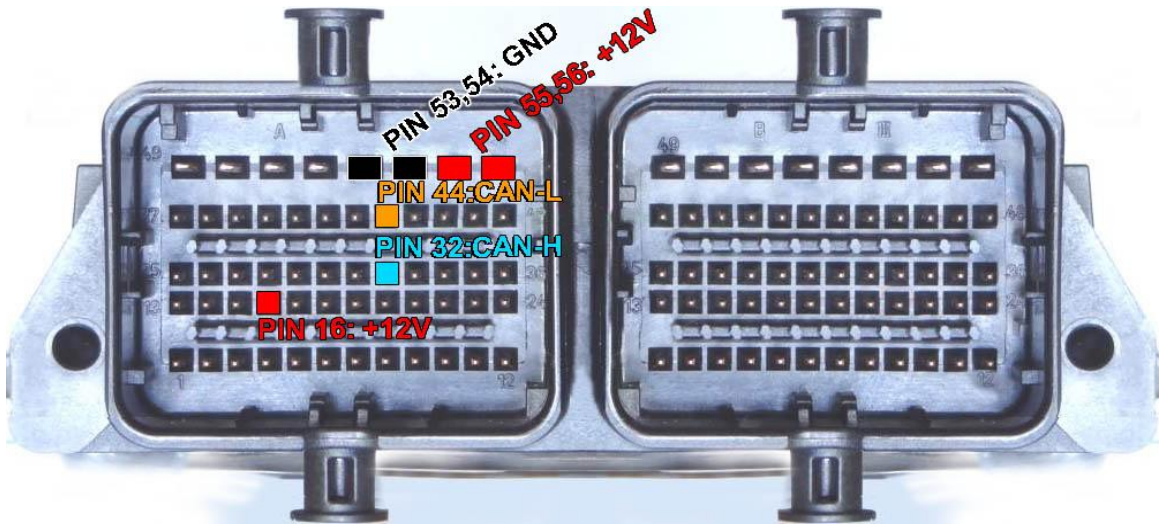


ECU EDC17CP07 - TC1766 Internal Flash



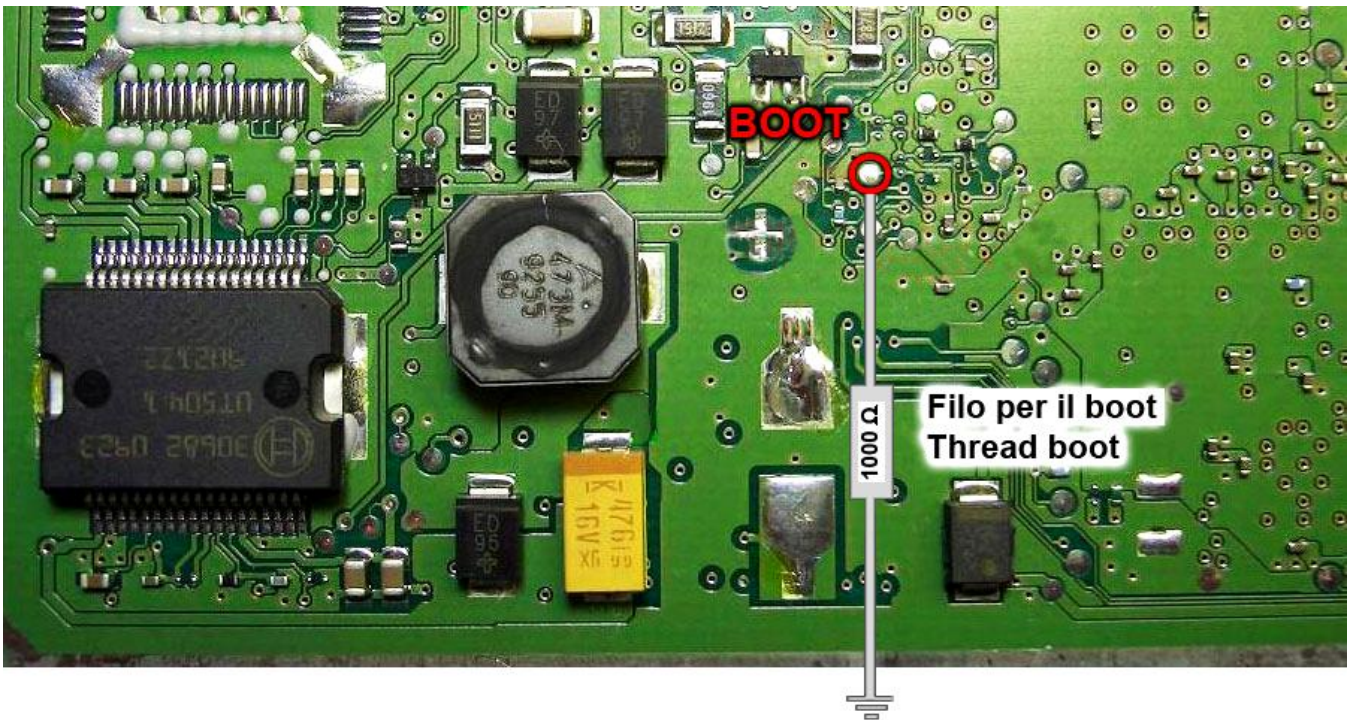
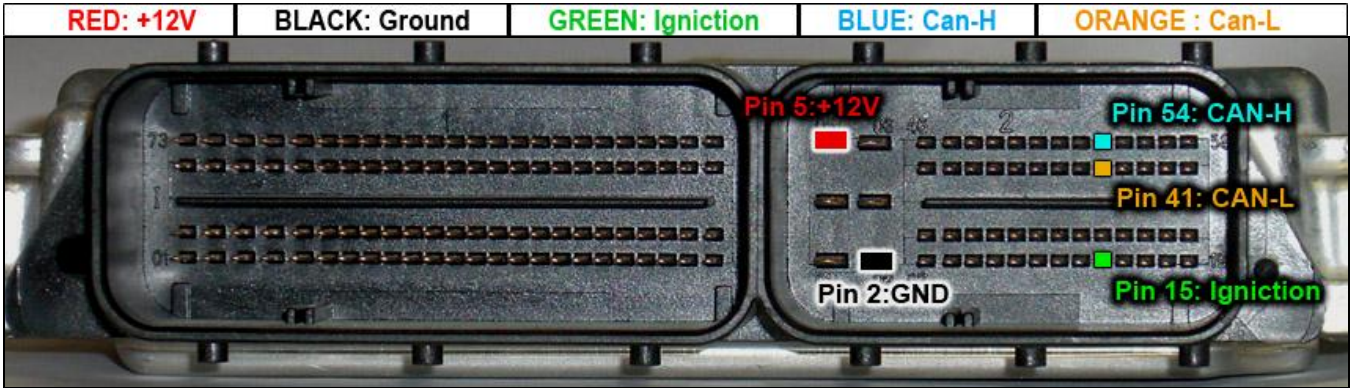
ECU ME17.9.7 - TC1762 Internal Flash

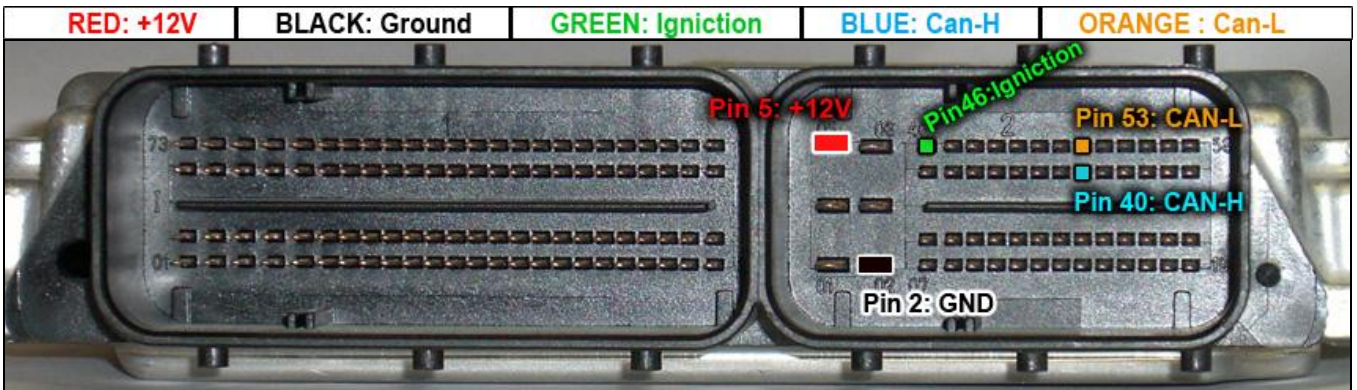
RED: +12V	BLACK: Ground	BLUE: Can-H	ORANGE : Can-L
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ECU EDC17 CP22 - TC1796 Internal Flash

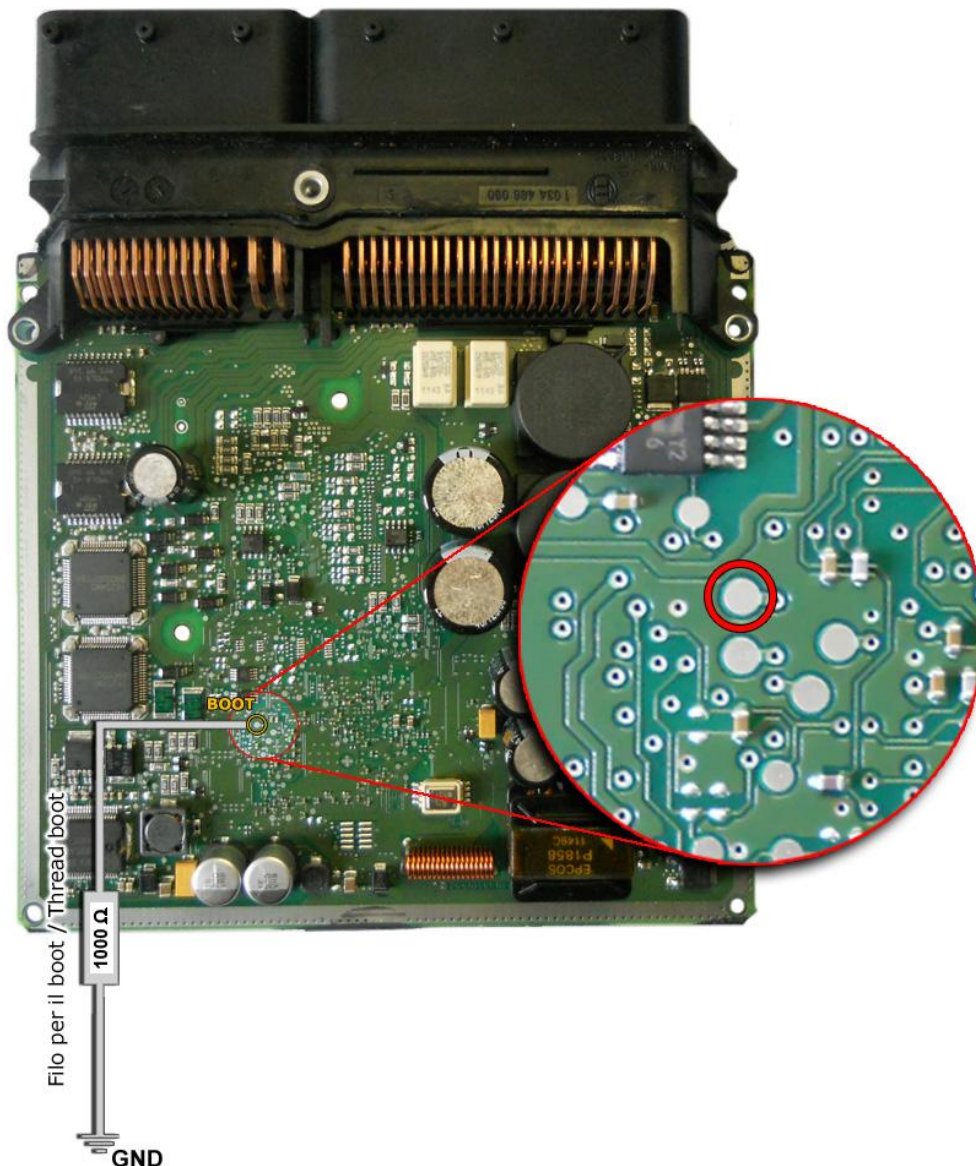




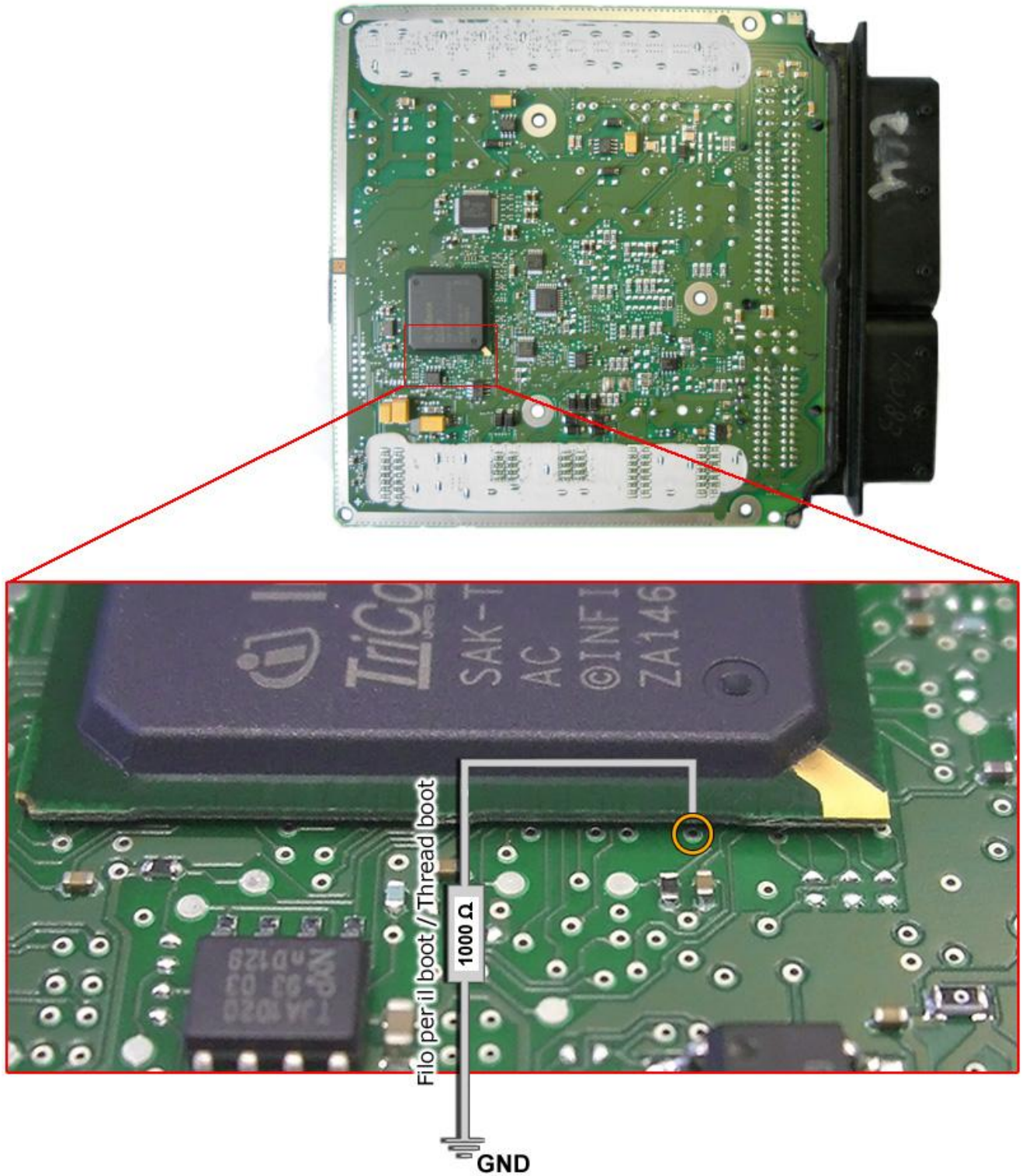
Questa centralina ha 2 pin di boot, uno sulla parte superiore e l'altro sulla parte inferiore della scheda; è possibile scegliere quale dei due pin utilizzare per porre la centralina in Boot mode.

This Ecu has 2 pin of boot, one on the superior part and another on the inferior part of the card; you can choose which pin use for set the Ecu in Boot mode.

1 - Parte superiore della Ecu / Above the Ecu:



2 - Parte inferiore della Ecu / *Under the Ecu:*



Manuale BOOT TRICORE

Versione
Version

Novembre 2013
November 2013

