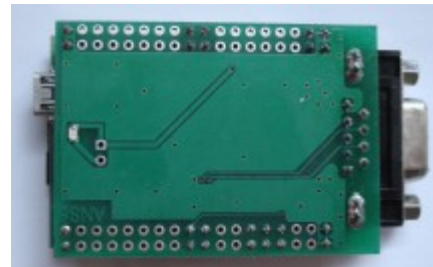
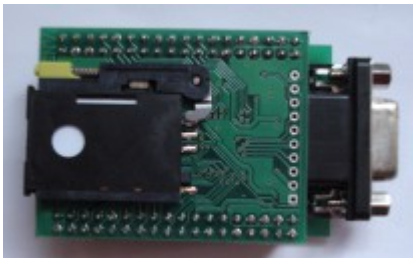
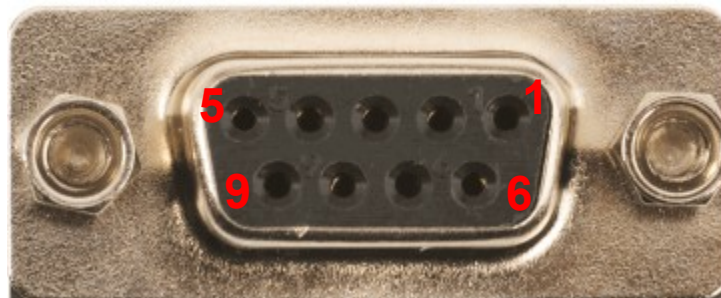


I/O TERMINAL HARDWARE and SOFTWARE INFORMATION MANUAL V2

Top and bottom views of I/O TERMINAL hardware interface



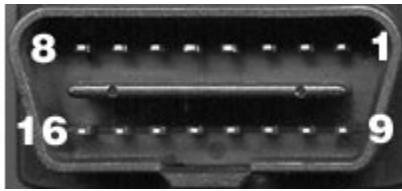
DB9 Female Connector Pinout



1 - CAN1H	3 - NC	5 - GND	7 - CAN2H	9 - +12V
2 - CAN1L	4 - KLINE	6 - LLINE	8 - CAN2L	

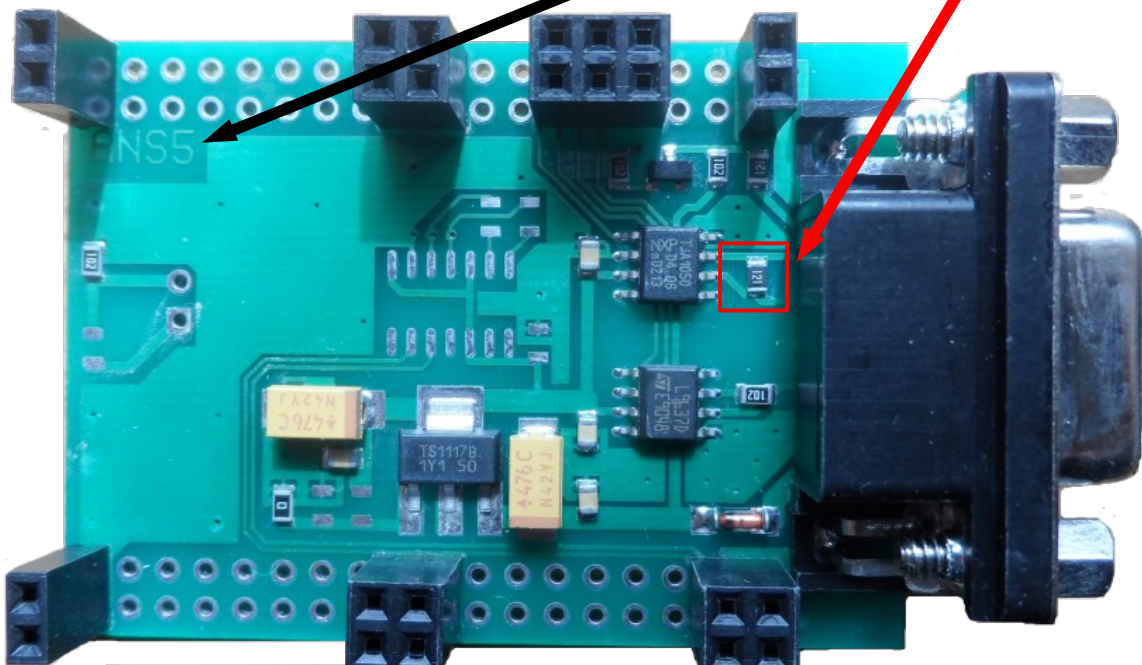
TYPICAL OBD CABLES

To make OBD cable you will need **DB9** male and **OBD2** male connectors.

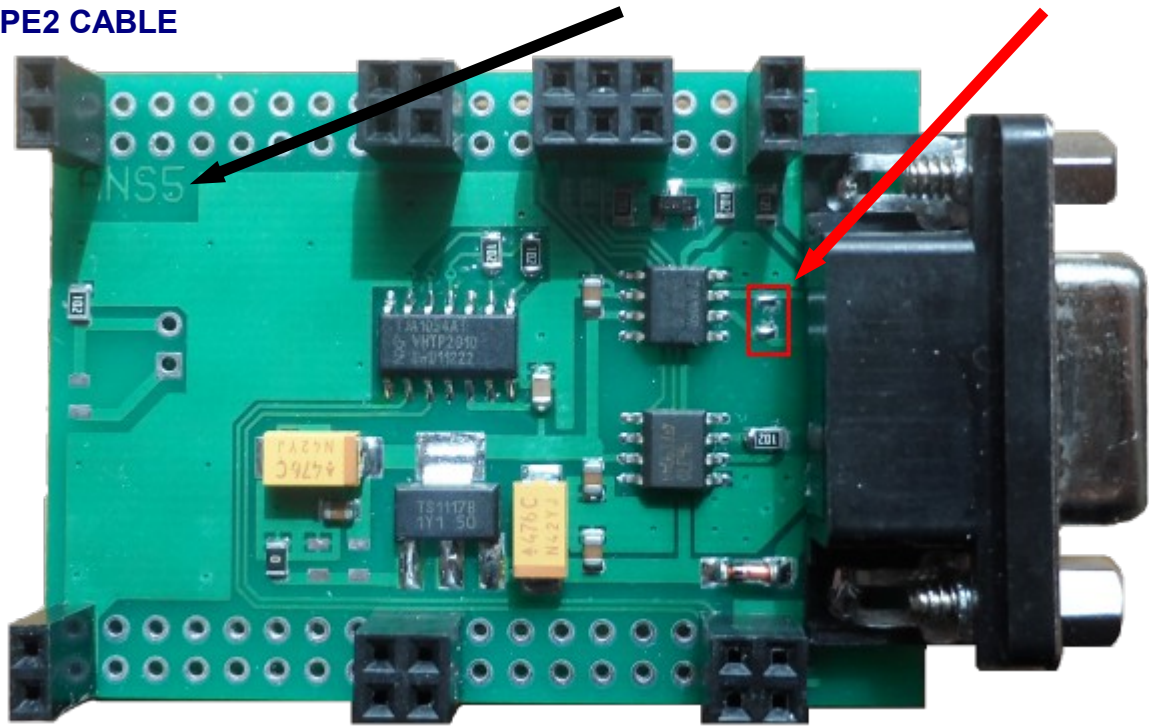


At the moment there are 2 types of second I/O TERMINAL boards. They have names **ANS5** and **ANS6**. These names you can find on this second PCB. **ANS5** board haven't second can trasceiver ic **TJA1050** which is needed for second CAN. Second CAN you need in cases when you use I/O TERMINAL on Volvo ECUs by OBD and in some cases on bench. How to add second CAN transceiver to **ANS5** PCB read **HARDWAREMODMANUAL2** which can be downloaded from website www.ioterminal.com Downloads section. **ANS6** PCB already has second CAN transceiver IC TJA1050.

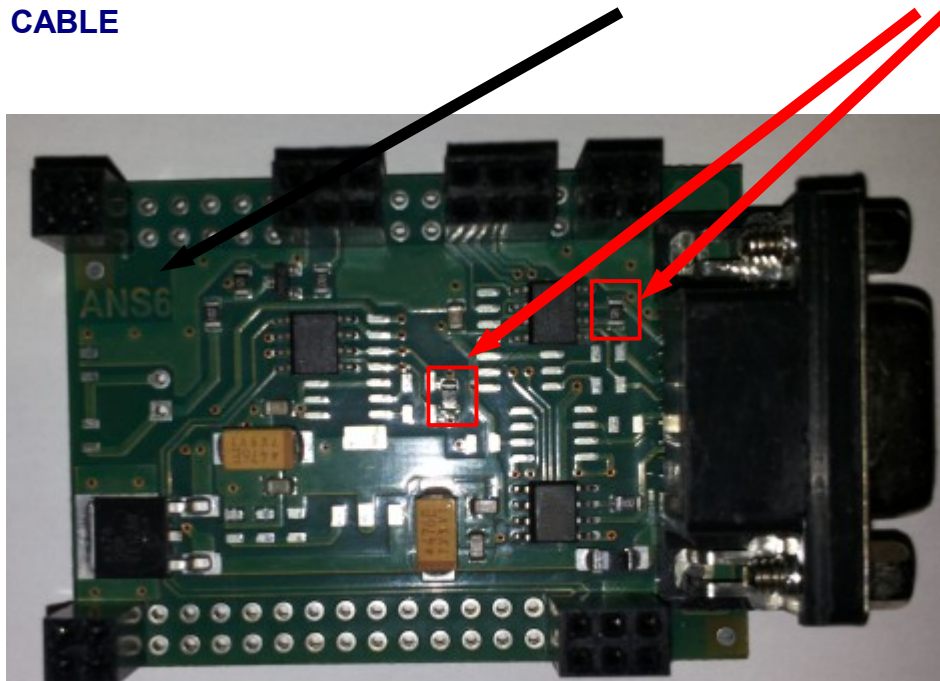
Not modified I/O TERMINAL hardware second PCB **ANS5** with CAN1 120 ohm resistor. Works with **TYPE1 CABLE**



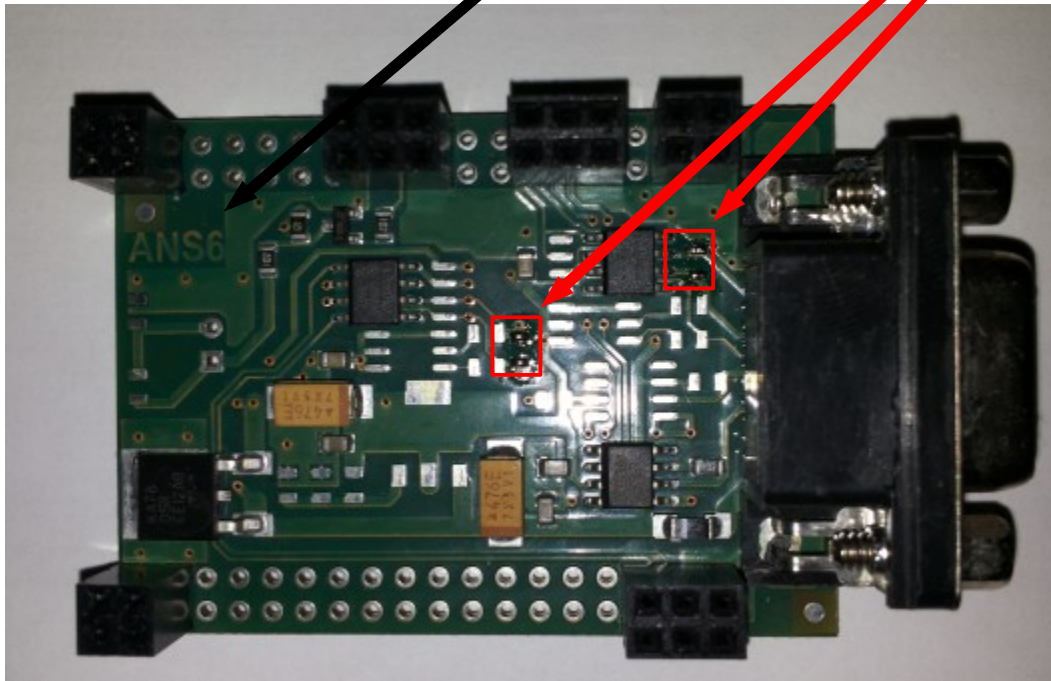
Modified I/O TERMINAL hardware second PCB **ANS5** without CAN1 120 ohm resistor. Works with **TYPE2 CABLE**



Not modified I/O TERMINAL hardware second PCB **ANS6** with CAN1 120 ohm resistors. Works with **TYPE1 CABLE**

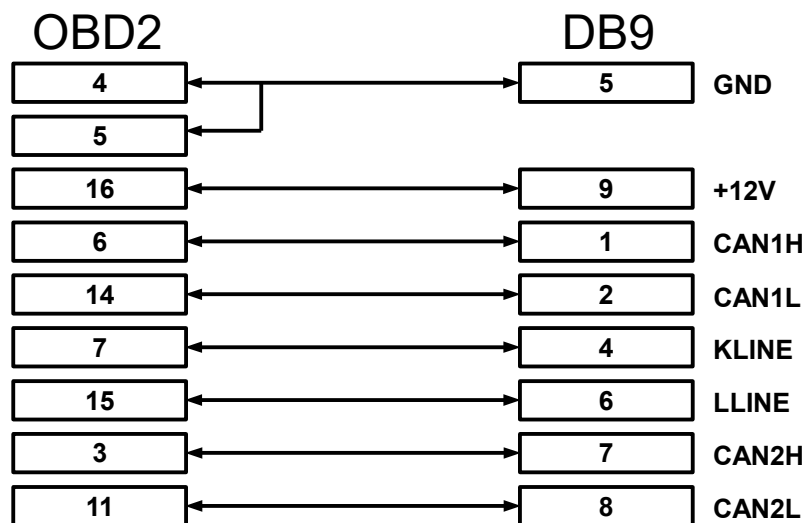


Modified I/O TERMINAL hardware second PCB **ANS6** without CAN1 120 ohm resitors. Works with **TYPE2 CABLE**



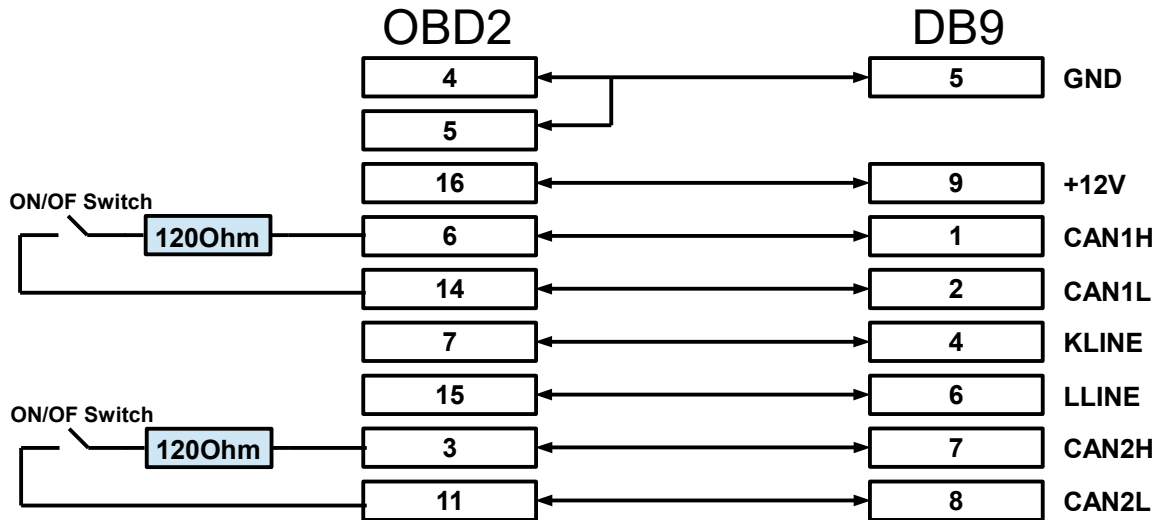
CABLE TYPE1

Standart OBD Cable when no modifications to hardware done.



CABLE TYPE2

OBD Cable with CAN resistors ON/OFF switch when modifications to hardware done.



This **TYPE2** cable is usefull when you are working with FIAT BSIs. Switch OFF – FIATBSIs . Switch ON - ECUs and other modules.