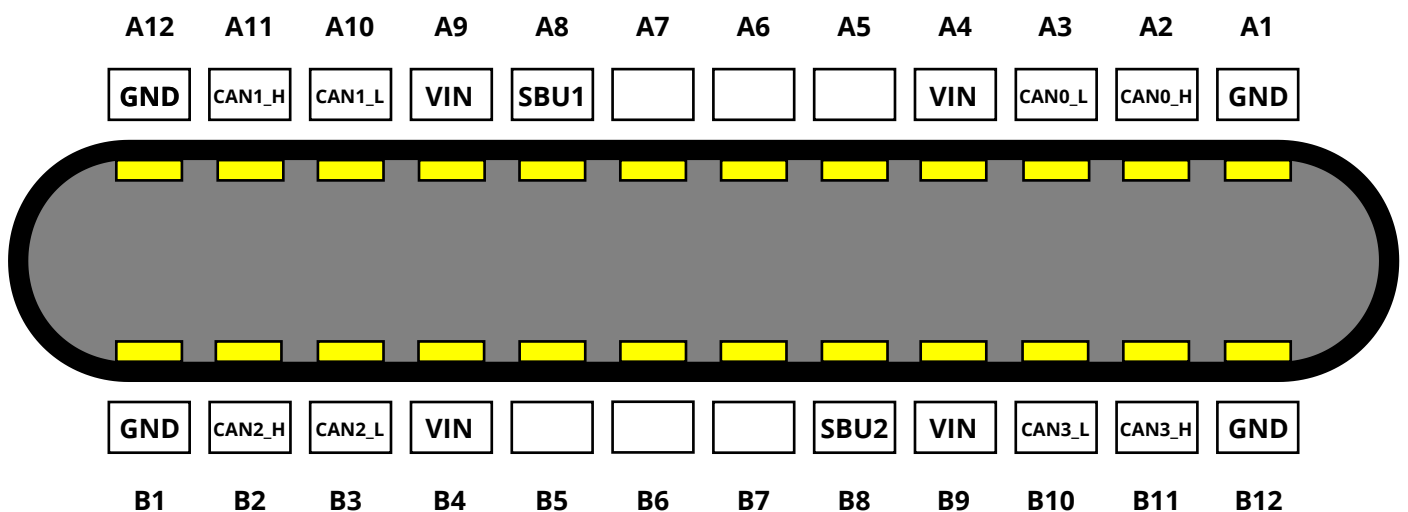


# Harness Side OBD2-C (Female)



The SBU lines are used for three functions:

- Orientation detection: Since the OBD-C cables are reversible, we need to know the orientation of the connection. To do this, the circuitry checks the resistance between the SBU lines and GND. SBU1 should have around 100 Ohm, while SBU2 needs around 1k Ohm.
- Relay driving: SBU1 is used for driving the relay between CAN0 and CAN2. To disconnect these two buses, SBU1 is driven high to 5V.
- Ignition detection: SBU2 is used for ignition detection.  
No ignition: leave SBU2 floating.  
Ignition: connect SBU2 to GND with 1k Ohm.