Connections and Jumpers:

The demonstration board uses 9 pin D type connectors for both the RS232 connection, and the OBD connection (one is of male type, the other is female). The connections to them should be straight-forward, but to be sure, here is a description of each:

- The 9 pin female connector (labelled RS232) should mate with a standard PC type RS232 cable or USB to RS232 converter. No hardware handshaking is used, LFs are generated after CRs, and the baud rate is per the tag on the connector (generally 38400bps).

- The 9 pin male connector (labelled OBD) is used to connect to the vehicle's OBD connector. The pinout was chosen to match several of the commercially available cables sold for this purpose (for example, the OBD2Cables.com ones). Be careful, as not all cables provide both CAN wires. The pin connections required of the cable are as follows:

J1962 Pin	Description	DB9F Pin
5	Signal Ground	1
6	CAN High	3
7	K Line	4
14	CAN Low	5
10	J1850 Bus -	6
2	J1850 Bus +	7
15	L Line	8
16	Vehicle Battery Positive	9

- The default board options can be changed by performing a little wiring. As shipped, the circuit boards have pins 5, 6, and 7 connected solidly to Vdd by board traces. Pads have been provided to allow the cutting of traces and the installation of jumpers. For example, to change the board for default operation at 9600 baud, perform the following steps: