Infineon

# Low Voltage Board

## Getting Started

November 2003

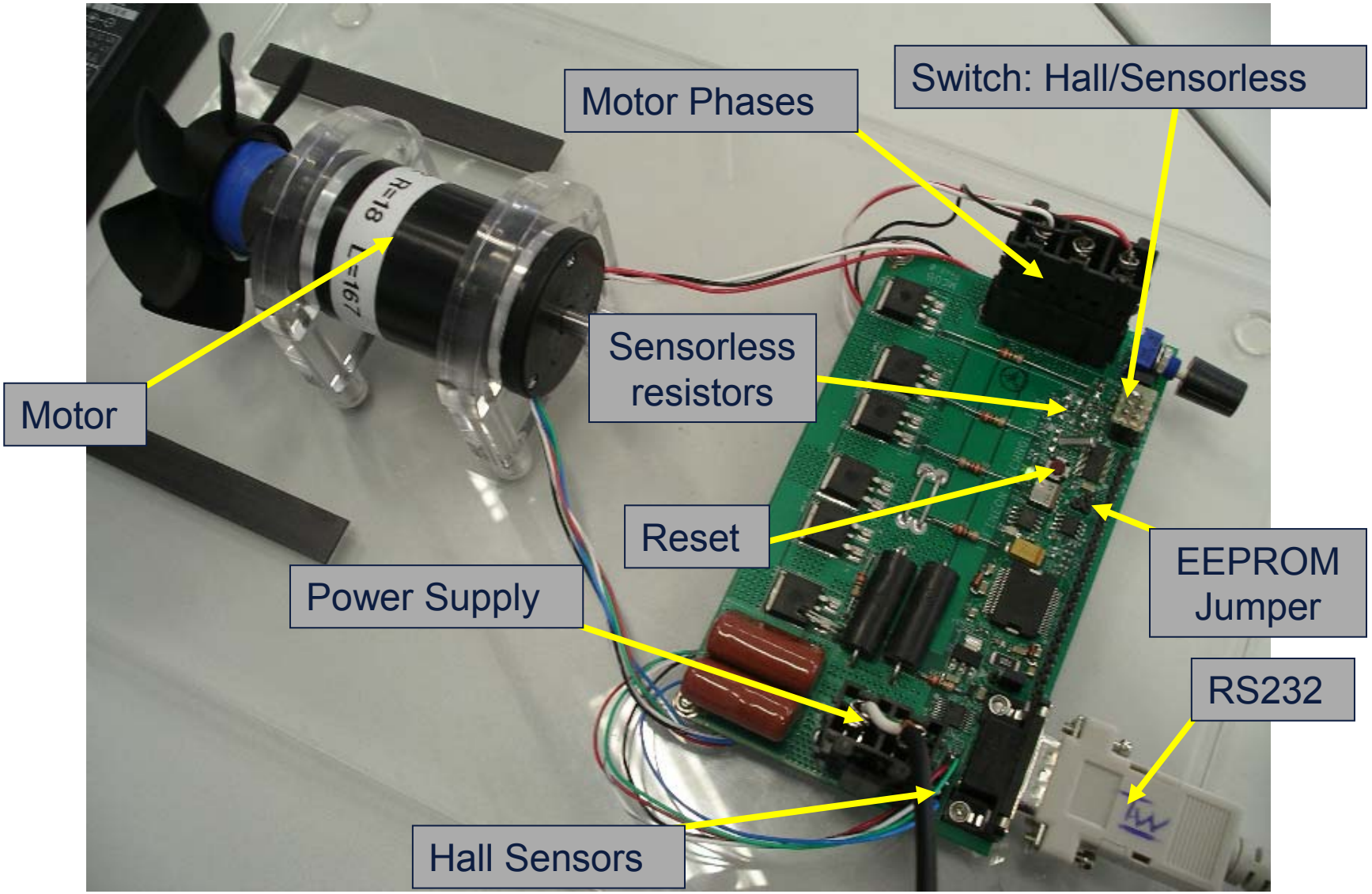
Never stop thinking.

# Low Voltage Board, Getting Started: Tips & Tricks

There are several things on the board which need particular attention:

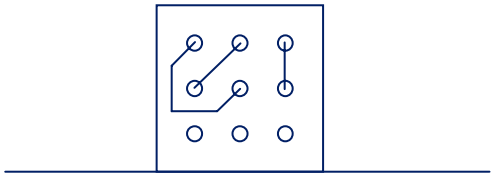
- The board must be connected to a host PC using a **NULL Modem** cable
- When operating from a host system (debug), the **EEPROM jumper** should be **removed**
- The hall sensors connector **uses 3.3V** for the hall sensors, you should use either 3.3V hall sensors or supply an **external voltage** to it
- The connection for hall sensor/sensorless is **not correct** (JP4,JP5,JP6), **POS1 is connected to JP5 and POS0 to JP4**. You should either use **extra hardware** to bring it back to normal configuration or take it into account in your **software**
- The resistors for the sensorless logic are not **mounted**. You must **solder** your **own** resistors: R7,R8,R9,R10,R11,R12,R13,R14,R15
- To **program** the EEPROM, **remove** the EEPROM **jumper** and reset. Program it and then put back the jumper

# Low Voltage Board, Getting Started: Overview



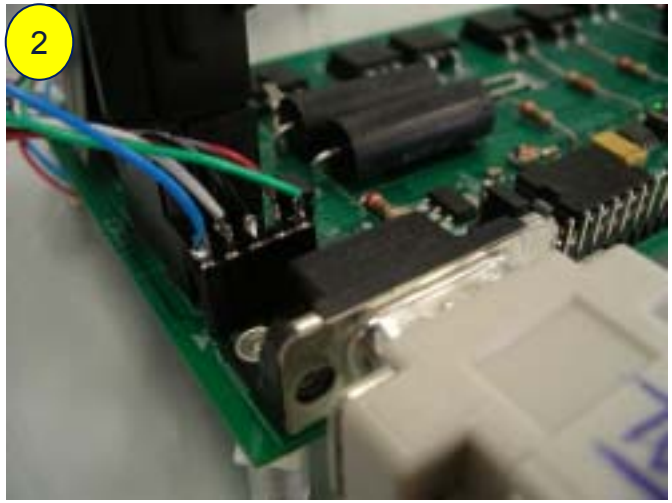
# Low Voltage Board, Getting Started: Hall Sensors

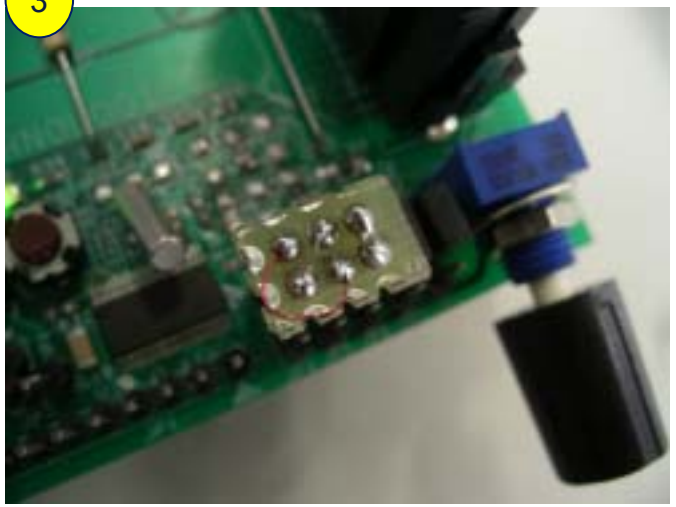
- Configuration for Hall Sensors:
  - 1: Connect the board to a host PC with a NULL Modem cable
  - 2: Connect the Hall Sensors
  - 3: Put the switch to Hall position





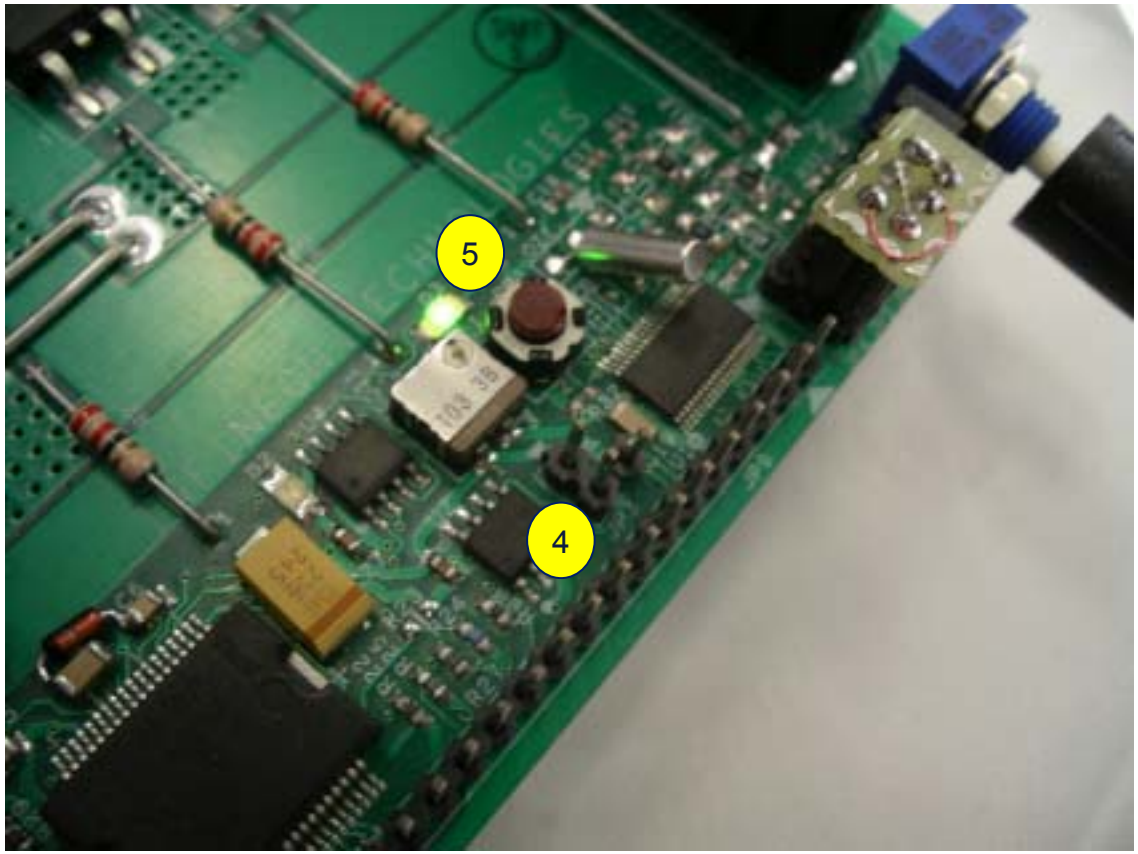


# Low Voltage Board, Getting Started: Hall Sensors

- Configuration for Hall Sensors:
  - 4: Remove the EEPROM Jumper and reset
  - 5: You can use either Keil, MiniDebugger or BLDC Trainer



# Low Voltage Board, Getting Started: Sensorless

- **Configuration for Sensorless:**
  - 1: Put the switch to Sensorless position
  - 2: Don't forget the sensorless resistors

