# 2. Assembly

#### 1. What's in the box

- 1 x ATmega2560 Mega Development board
- 1 x 2.8 inch touch screen for Arduino® Uno/Mega with a stylus
- 1 x sensor shield for Arduino® ATmega
- 1 x air quality sensor combo board
- 1 x lightning sensor
- 1 x 40 pins, 30 cm male to female jumper wire (flat cable)
- 1 x USB 2.0 A plug to USB 2.0 B plug
- 1 x enclosure set (Birch triplex 3mm)
- bolt and nuts set:
  - 4 x metal distance bolt 35mm M3 (female / female)
  - 4 x metal distance bolt 15mm M3 (female / female)
  - 4 x EVZ nut KVP M3 2,3mm
  - 16 x bolt EVZ CK-SCHR BZK M3 x 6mm
  - 4 x bolt EVZ CK-SCHR BZK M3 x 10mm
  - 4 x plastic rings for TO

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#### Options, coming soon!

- Arduino compatible 3 colour RGB SMD LED module (2pcs)
- UV light sensor Guva-S12SD module
- DS1302 real-time clock module / with battery CR2032 (2 pcs)

### 2. Backplate with sensors

**Step 1:** start off with the back plate of the case and place it in front of you. Notice the orientation!

Then place the 4 x M3x10 bolts in the four holes as shown in the picture.

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Step 2: then place the a plastic ring over each bolt (4 in total). Make sure that the inner ring is faced upward.

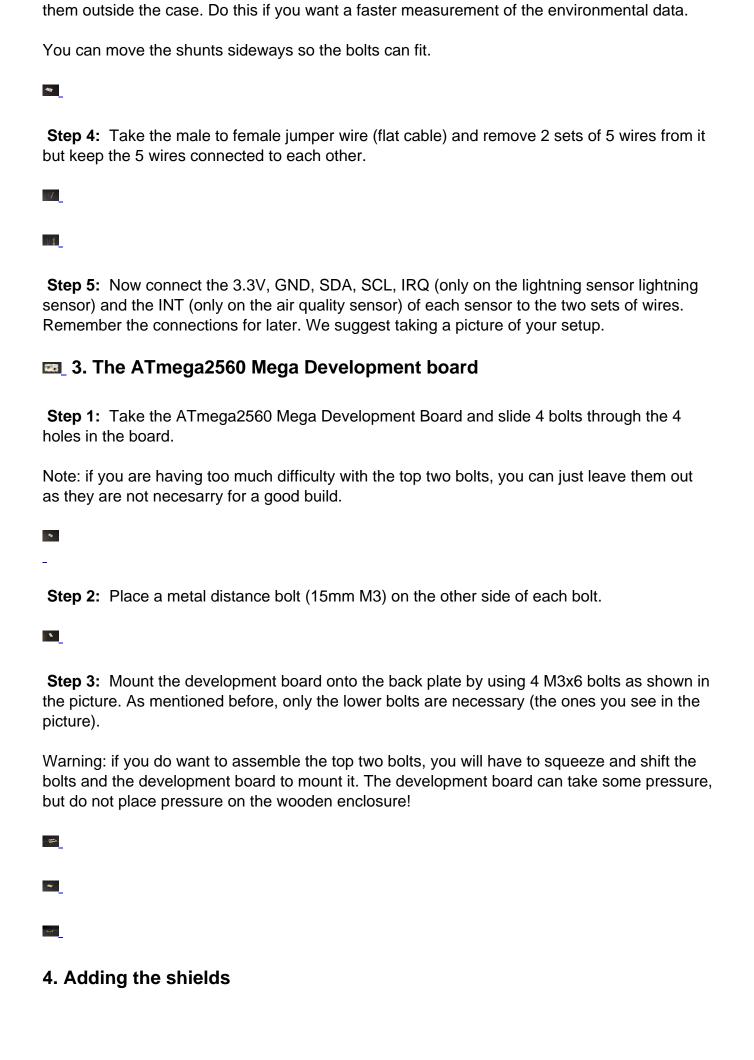
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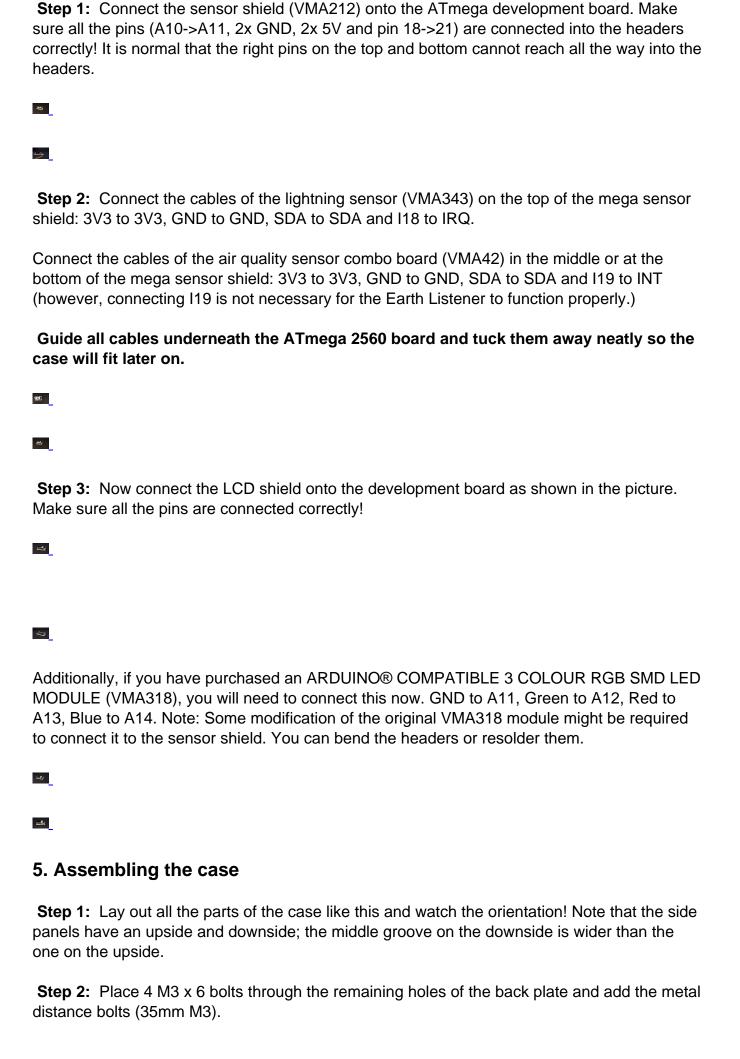
**Step 3:** Next, place the lightning sensor (VMA343) on the left and the air quality sensor combo board (VMA42) on the right, over the bolts. Fix the sensor boards with 4 nuts but do not overtighten the nuts!

You can move the shunts sideways so the bolts can fit.

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**Note:** it is possible to place the sensors at the other side of the back plate, hence positioning





**Step 3:** Slide the side panels in the back plate. Tip: use a rubber band to keep them in place.

**Step 3:** Put the top plate in place and add the 4 remaining M3 x 6 bolts. Make sure they connect into the metal distance bolts. Do not overtighten the bolts.

Head over to the operations instructions!

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