This manual is being updated.

THE BIG ORCHARD · PRODUCT MANUAL

Ackworth Drawing Board

Floor-standing drawing board on a collapsible white A-frame stand with height and angle adjustment. Available for A0 and A1 paper with a counter-weight or cross-wire parallel motion. This manual covers every size.

Covers models: DU01, DU02, DU03, DU04

ADJUSTABILITY

Height and angle (A-frame stand)

The A-frame stand sets the board anywhere from horizontal to almost vertical, with plenty of adjustment on the overall table height.

Angle: the large hand-wheels on the quadrants set the angle. Release them, rotate the board surface to the angle you want (the quadrant rotates with the board), then retighten them.

Height: the smaller hand-wheels set the height. Release them, raise or lower the board, then retighten them.

> For the exact height and angle range of your stand, please contact The Big Orchard on +44 (0)1924 291333 or info@thebigorchard.com.

Counter-weight parallel motion: setting the straight edge parallel

If the straight edge is no longer parallel with the board:

1. Slacken the knob at each end of the straight edge.
2. Move the black counter-weights to the bottom of the board and keep them there.
3. Line the straight edge up with the top of the board face.
4. Retighten both knobs.

Counter-weight parallel motion: re-attaching the straight edge to the wires

1. Slacken the knob at each end of the straight edge.
2. Tilt the drawing board until it is horizontal.
3. Move the black counter-weights to the bottom of the board.
4. Lay the straight edge on the board near the top edge, on the opposite side from the counter-weights.
5. At each end, thread the knob **one turn only** onto the bolt.
6. Use the knob to push the bolt in, then tilt it upwards so the wire fits behind the bolt head.
7. Tighten the knob so the bolt head grips the wire, then repeat at the other end.
8. Set the straight edge parallel as described above.

Download the illustrated sheets: Straight edge setup (PDF) and Connecting the counter-weight wires (PDF). The wire runs from the threaded wheel on the top bracket, down to the pulley wheel on the bottom bracket; the weight sits in the inner and outer cups on the wire.

Counter-weight parallel motion: stiff straight edge after delivery

For transport the wires are tightened to prevent damage, which makes the straight edge stiff to move. To slacken them, unscrew the weight cups a little on both sides, taking care not to completely undo the two halves.

Counter-weight parallel motion: straight-edge end-play

The left/right movement (end-play) of the straight edge is adjusted with the slider adjustment screws on the back of the straight-edge ends. Slacken the screws, move the sliders in or out to increase or decrease the movement, then retighten the screws, taking care not to over-tighten them.

If the straight edge slips on the wire, slacken the knobs at each end (the weights will fall to the bottom of the board), align the blade with the top of the board, then firmly tighten the knobs again.

Counter-weight balance

> For adjustment of the counter-weight balance, please contact The Big Orchard on +44 (0)1924 291333 or info@thebigorchard.com.

Counter-weight parallel motion: replacement wires

You can fit a replacement counter-weight wire yourself. Replacement wires are supplied ready-made by The Big Orchard, made up with the ferrules already crimped on (the ferrules have to be crimped, so wires cannot be made up at home). To order a replacement wire, contact us on +44 (0)1924 291333 or info@thebigorchard.com.

Cross-wire parallel motion: wire tension and straight-edge resistance

- The wire tension is set by adjusting the bottle screw (wire adjuster) where the wire ends join on the back of the board. Fasten it firmly enough to hold the wire. **Do not overtighten.**
- The straight edge is held to the wire by the spring tab assembly. Adjust how much the spring tab flexes to give the resistance you prefer when moving the straight edge.

Cross-wire parallel motion: fitting a replacement wire

You can fit a replacement wire yourself. Replacement wires are supplied ready-made by The Big Orchard, made up with the ferrules already crimped on. To order one, contact us on +44 (0)1924 291333 or info@thebigorchard.com. Then fit it as follows:

1. Screw the 4 corner brackets to the back of the board, using 2 short screws in each.
2. Put the corner wheels on the brackets and screw them in place with the long screws.
3. Thread the wire around the bottom-left wheel, then round the corner wheels so it crosses behind the board in an "X" pattern.

4. Fix the wire clip near the middle of the board with a short screw.
5. Fasten the wire adjuster (bottle screw) firmly enough to hold. Do not overtighten.
6. With the wire adjuster in the centre, attach the straight edge in the middle of the board, using the spring tab assembly to secure it to the wire.

Download the illustrated sheet: Cross-wire parallel motion (PDF).

> For squaring up a straight edge that is out of parallel on a cross-wire board, please contact The Big Orchard on +44 (0)1924 291333 or info@thebigorchard.com.

Which parallel motion do I have?

Counter-weight boards have black counter-weights on the wires, which stop the straight edge sliding down the board when it is at an angle. Cross-wire (continuous wire) boards rely on friction instead. More: www.thebigorchard.com/drawing-board-parallel-motion/.

CARE AND CLEANING

Do not cut against the acrylic edge of the straight edge. If it does get damaged, contact us: we can re-machine it for you. If a new straight edge has a protective plastic sheet on its underside, remove it before use.

If you use a compass or cut on the board, we recommend a cutting mat to protect the board surface. Papyroboard is a hard-wearing vinyl board cover that protects the board surface, but compass points may still find their way through if used regularly.

The stand is finished in a high-gloss, durable white.

Cleaning

- **Board surface:** wipe with a soft, slightly damp cloth and dry it off.
- **Acrylic straight-edge blade:** clean with a soft, clean cloth. Avoid abrasive cleaners and pads, which scratch acrylic.
- **Frame and stand:** wipe with a damp cloth, dry, and keep moving parts free of dust.

Maintenance services: we can provide a tailored annual service plan. See www.thebigorchard.com/service-plan/ or call +44 (0)1924 291333.

PARTS OVERVIEW

- Drawing board with full-width aluminium straight edge (15 mm acrylic blade)
- Collapsible white A-frame stand with hand-wheels and quadrant
- Counter-weight parallel motion: top bracket with threaded wheel, wire, counter-weights in inner and outer cups, pulley wheel on the bottom bracket (counter-weight models DU01, DU02)
- Cross-wire parallel motion: corner brackets, corner wheels, continuous wire, wire clip, wire adjuster and spring tab assembly (cross-wire models DU03, DU04)

Spare parts for drawing boards: www.thebigorchard.com/parts-for-drawing-boards/.

ASSEMBLY AND SETUP

The Ackworth is supplied fully assembled. The A-frame stand collapses and can be removed from the drawing board for storage or transport.

Fitting the stand to the board

1. Place the board face down on a flat, clean surface.
2. Slacken the large knob on the top section of the stand (fixed to the back of the board).
3. Move the two sliders to a vertical position and tighten the large knob (not too tight) to hold them upright.
4. Remove the two small knobs on the stand.
5. With the stand folded, slide it on to the sliders. The diagonals, not the foot rail, should be closest to the top rail.
6. Tighten the large knob.
7. Replace the small knobs.
8. Open the stand and place the unit upright.

To remove the stand for transport, reverse these steps.

SAFETY

- The A0 Ackworth weighs around 27 kg and the A1 around 17 kg.
- Retighten the hand-wheels after every adjustment.

> For any safety question about your product, please contact The Big Orchard on +44 (0)1924 291333 or info@thebigorchard.com.

SIZES AND SPECIFICATIONS

Code	Model	Paper	Board size	Parallel motion	Stand footprint	Weight
DU01	A0 Ackworth Drawing Board Counter-weight	A0 (1189mm x 841mm)	1270 x 920mm	Counter-balanced	800W x 700D	27kg
DU02	A1 Ackworth Drawing Board Counter-weight	A1 (841mm x 594mm)	920 x 650mm	Counter-balanced	800W x 700D	17kg
DU03	A0 Ackworth Drawing Board Cross-wire	A0 (1189mm x 841mm)	1270 x 920mm	Cross-wire	800W x 700D	27kg
DU04	A1 Ackworth Drawing Board Cross-wire	A1 (841mm x 594mm)	920 x 650mm	Cross-wire	800W x 700D	17kg

WARRANTY

Lifetime warranty, from the date of delivery. The warranty is limited to the original purchaser and is non-transferable. It covers any manufacturing defect which shows as a functional or cosmetic issue within the warranty term. It does not cover accidental or malicious damage, or normal wear and tear. If something goes wrong due to materials or workmanship, we will arrange a free-of-charge like-for-like replacement or on-site repair (if suitable). Full terms: www.thebigorchard.com/warranty/.

CONTACT

Manufacturer	The Big Orchard Ltd, Wakefield, West Yorkshire WF11 1TT, United Kingdom
Email	info@thebigorchard.com
Phone	+44 (0)1924 291333
Web	www.thebigorchard.com

Paper copy of this manual free on request. If you have any issue with your product, get in touch and we will help get you up and running.