

Thank you for purchasing a Trimalco product. Manufactured in the UK to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance



**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT WAS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY.

PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

**1. CONTENTS**

CAUTION: THE COUNTERBALANCE WEIGHT AND COUNTERBALANCE CORD CAN BECOME SEPERATED IN TRANSIT, RECONNECT BEFORE STARTING THE ASSEMBLY PROCESS.

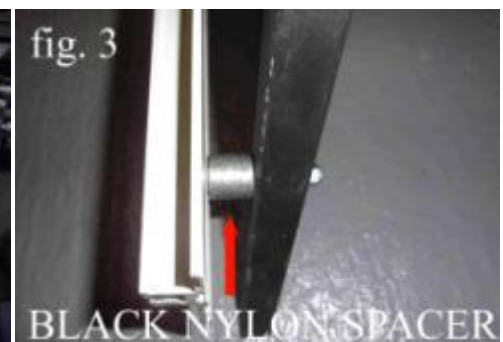
After unpacking the APOLLO 210, check to make sure that you have all the parts and that there is no damage. All fastenings have been loosely fixed in place to aid assembly. These can come loose in transit, do not throw any packaging away until assembly is complete.

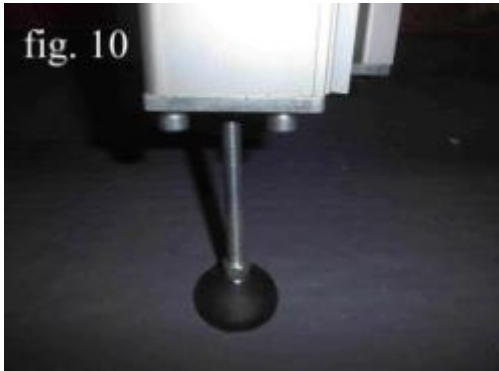
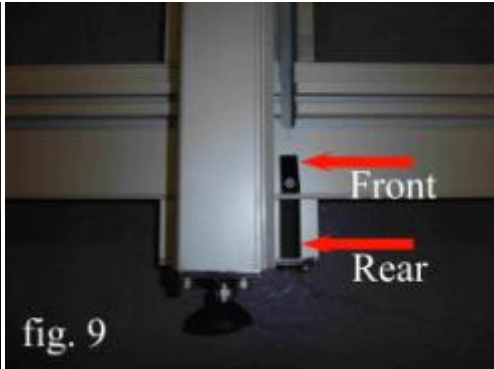
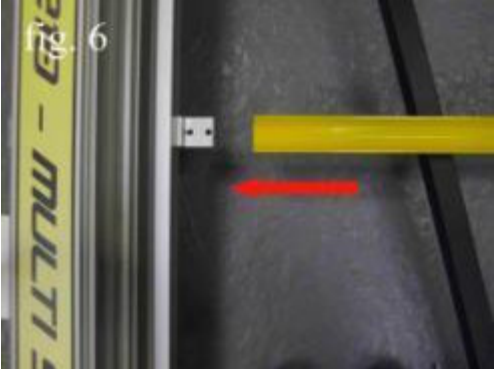
- 1.1 APOLLO 210 components:
  - a) Vertical assembly
  - b) Horizontal assembly
  - c) Legs (1 x Left Hand (LH), 1 x Right Hand (RH), the RH leg includes the squaring adjustment mechanism)
  - d) Material supports x 8
  - e) Scale set (not visible on photograph)
  - f) Tool box (containing Toolholder #1, Toolholder stop, Utility blades x 100, 2mm Allen key, 4mm Allen key, Laser assembly and Wall mount bracket).



**2. ASSEMBLY (BEGIN WITH VERTICAL ASSEMBLY LAYING FLAT ON THE FLOOR)**

- 2.1 Fitting the RH leg – Remove the 2 x M8 screws from the top of the RH leg and hold the leg behind the RH joining bracket. Refit the screws from the front, finger tight only. (fig. 1)
- 2.2 Repeat for the LH leg
- 2.3 Fitting the horizontal assembly – Remove the 2 flip stops, the 2 x M8 screws and the 2 x M10 screws after carefully noting their positions. Slide the horizontal assembly through the gap in the vertical assembly. Align the two inner holes in the horizontal assembly with the two corresponding holes in the machined section of the vertical assembly and refit the 2 x M10 screws loosely. The M10 screws are fitted from the rear, you may find it easier to raise the bottom end of the machine to do this. The tool box supplied is ideal for this purpose (fig. 2). Align the two outer holes in the horizontal assembly with the corresponding holes in the legs and refit the 2 x M8 screw assemblies loosely. The M8 screws are fitted from the front with the black nylon spacer between the horizontal assembly and the legs (fig.3).
- 2.4 Fitting the wall mounting bracket – Raise the top end of the machine, remove the 2 x M8 screws from the wall mounting bracket and fit to the top plate as shown (fig. 4). Refit the 2 x M8 screws finger tight only. Tighten the 2 x M8 screws at the top of each leg (fig. 1) and get help to lift the machine into position against the wall in the desired location. The wall mounting bracket should lay flush against the wall, mark the position of the two V's with a pencil (fig. 5). Move the machine away and remove the wall mounting bracket. Attach the bracket to the wall with appropriate fixings then reposition the machine and fasten to the bracket.
- 2.5 Tighten the 2 x M10 screws fixing the horizontal assembly to the vertical assembly (fig. 2) and the 2 M8 screws fixing the horizontal assembly to the legs (fig. 3).
- 2.6 Fitting the material supports – Loosen the 8 x clamps attached to the legs and slide the eight material supports into position as shown (fig. 6). You may need to undo the grub screws fitted to each fixing bracket. Make sure that each support is level before tightening the two grub screws in the fixing bracket (fig. 7) and the M8 screw in the clamp (fig. 8).
- 2.7 Fit the toolholder stop (fig. 9).
- 2.8 Extend the support leg so that it firmly touches the floor. (fig. 10).
- 2.9 Fitting the tool box – Fit the tool box to the rear of the horizontal assembly as shown (fig. 11).

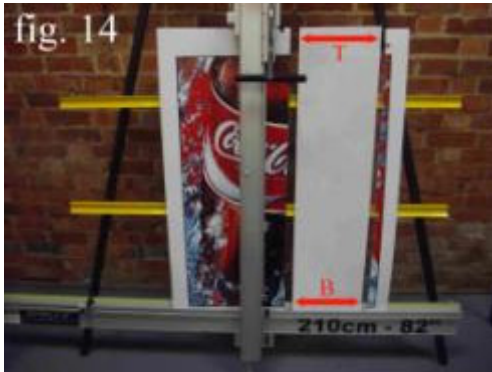




**3. CHECKING THE APOLLO 210 FOR SQUARENESS**

TO PRODUCE ACCURATE RESULTS, THE HORIZONTAL ASSEMBLY NEEDS TO BE FIXED AT EXACTLY 90 DEGREES TO THE VERTICAL ASSEMBLY. TO DO THIS SELECT A PEICE OF FOAMBOARD 3-6MM AT LEAST 60 X 100CM IN SIZE. THE LARGER THE BOARD THE GREATER THE ACCURACY.

- 4.1 Remove the toolholder clamp plate and fit the utility blades (fig. 13), insert the toolholder and move the head to the parked position near the top of the machine.
- 4.2 Place the board vertically on the machine and clamp in position. Make sure that the bottom edge is in firm contact with the horizontal assembly and make a cut by pulling the head downwards.
- 4.3 Unclamp the board and return the head to its parked position near the top of the machine. Turn the board over like the page in a book (NOT top to bottom) and make a second cut.
- 4.4 If the machine is square, the width of the board at the top (T) will equal the width of the board at the bottom (B), if it does not follow the instructions in 4. (fig. 14)



**4. ADJUSTING THE SQUARENESS**

- 4.1 Slacken the 2 x M8 screws joining the legs to the horizontal assembly. (fig. 3)
- 4.2 Slacken the right hand M10 screw joining the horizontal assembly to the vertical assembly make sure that the left hand M10 screw is tight. (fig. 2)
- 4.3 Measure the width of the board at the top (T) and at the bottom (B). If T is greater than B turn the squaring adjuster clockwise. If T is less than B turn the squaring adjuster anti-clockwise and push the horizontal assembly downwards.
- 4.4 Make another cut and measure, repeating this process until T=B
- 4.5 Tighten the screws loosened in 4.1 and 4.2.

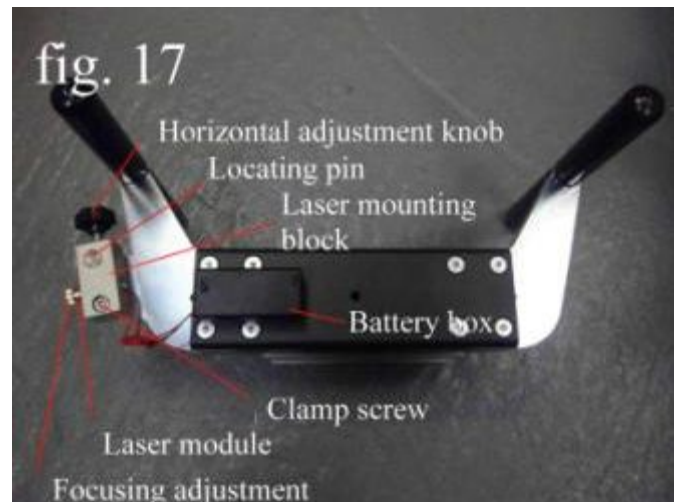
**5. CALIBRATING AND FITTING THE MEASURING SCALES**

- 5.1 VERTICAL SCALE – This measures the height of the board and is only used for reference. Take a small piece of board and accurately measure its height. Place the board in the machine so that it covers the scale recess and, with a pencil, mark a line level with the top of the board adjacent to the scale recess. Remove the vertical scale from its backing and stick in place so that the measured dimension is in line with the pencil mark.
- 5.2 RIGHT HAND SCALE (reads left to right) – Set the RH flip stop at approximately 20cms. Slide a piece of board up to this stop and make a cut. Accurately measure the size of this board. Remove the RH scale from its backing and stick in the recess with the measured dimension in line with the edge of the production stop.
- 5.3 LEFT HAND SCALE (reads right to left) – Repeat 5.2 using the LH flip stop.
- 5.4 Trim any excess .

**6. FITTING AND CALIBRATING THE LASER (fig. 17)**

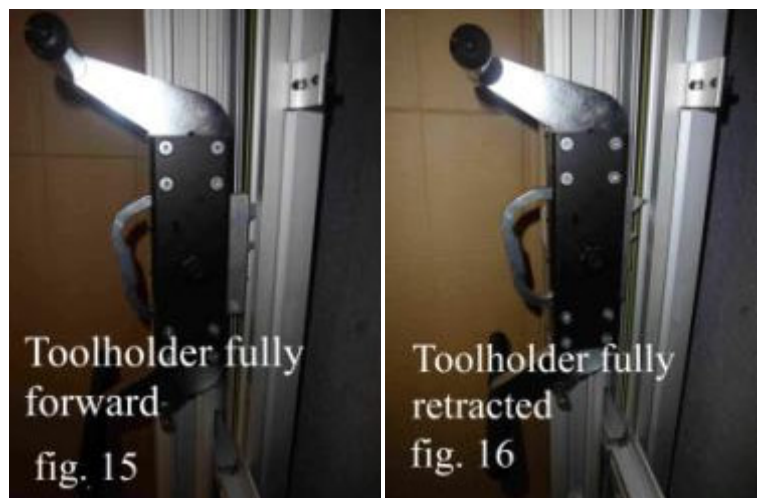
CAUTION: NEVER LOOK DIRECTLY AT THE LASER SOURCE

- 6.1 Slide the laser mounting block onto the locating pin and fix the battery box to the side of the cutting head. (fig. 17)
- 6.2 With the cutting head in its parked position near the top of the machine, clamp a piece of foam board or something similar in place. Set the toolholder to cut only the surface of the board and not all the way through and move the head downwards to the bottom of the machine.
- 6.3 Remove the toolholder and move the head so that it is just above the clamped material.
- 6.4 Switch on the laser and focus the line by turning the grooved ring on the end.
- 6.5 Loosen the horizontal adjustment knob and slide the laser left or right so that the laser line is centred on the start of the cut line.
- 6.6 If the laser needs to be adjusted so that it is parallel with the cut line this is done by loosening the clamp screw and rotating the laser module within the mounting block.

**7. USING THE APOLLO 210**

There are some general principles which apply to the proper use of the Apollo 210

- 7.1 All cutting and scoring is done on the downward stroke.
- 7.2 Material to be cut can be fed from the left or right and moved to the desired dimension against the production stops. You can also sight your cut using the laser.
- 7.3 Fit the utility blades into the toolholder by removing the clamp plate (fig. 13), CAUTION: THE BLADES ARE SHARP, HANDLE CAREFULLY.
- 7.4 Insert the toolholder into the cutting head and push as far forward as the stops will allow , tighten the clamp knob and then slacken by one turn. This will allow the toolholder to move between the fully forward position for thin materials (fig.15) and the fully retracted position for thick materials (fig 16.) Remember to tighten the clamp knob before use.

**8. GENERAL MAINTENANCE**

- 8.1 Regularly clean the APOLLO 210 Cutter rail using a dry cloth, stubborn stains can be removed with a cloth dampened with a little water/detergent.
- 8.2 Silicon spray can be used to lubricate the cutting head slideway. NEVER USE OIL OR SPIRITS TO LUBRICATE OR CLEAN THE SLIDEWAY AS THE BEARINGS MAY BE DAMAGED.

**9. SPARE PARTS**

- 9.1 Spare parts can be obtained by visiting our website at [www.trimalco.com](http://www.trimalco.com)