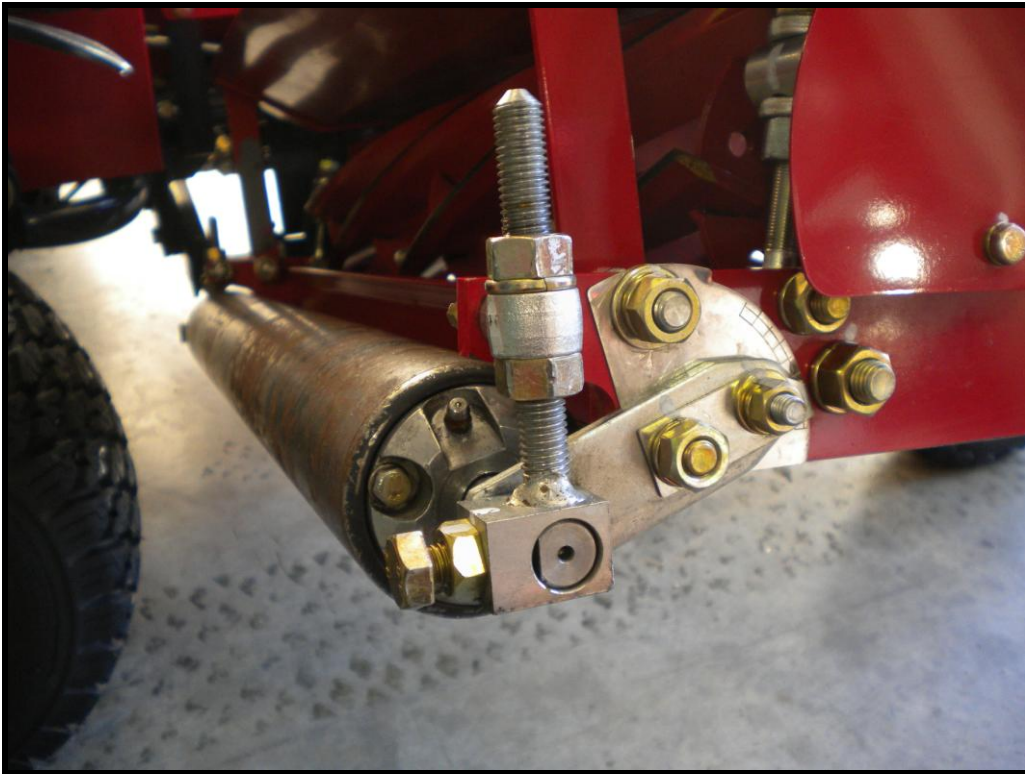




## Technical Information Leaflet

**TIL: 023**

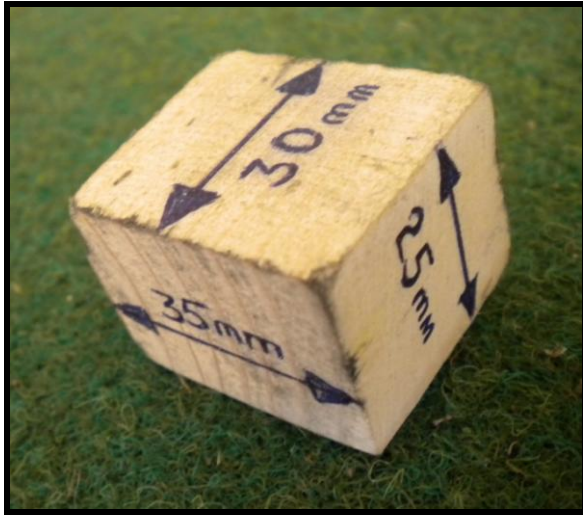


**LM180 Height of Cut Adjustment**

## BARONESS LM180 TRIPLE MOWER – HEIGHT OF CUT ADJUSTMENT

The Baroness LM180 range of mowers are fitted with fixed head cutting units, therefore you cannot use a setting bar to adjust the height of cut.

To adjust the height of cut correctly you need to measure the distance between the cutting edge of the bottom blade and the surface of a flat and level base.

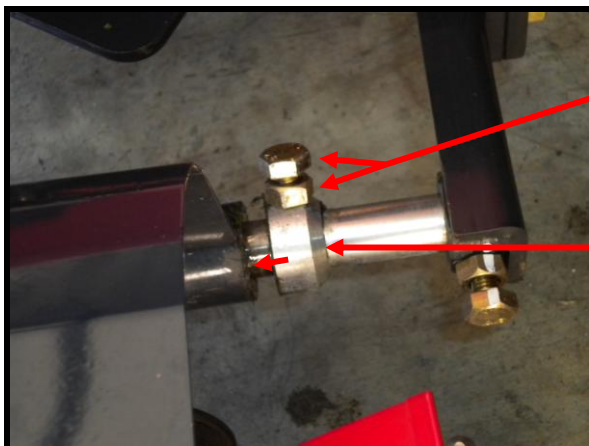


The easiest way to measure the height of cut is to make a measuring block from a piece of wood. One block can be used to measure three different heights of cut.

Shown is a block which has been made to cover the 3 most common heights of cut used with the Baroness LM180.

Before you can adjust the height of cut on an LM180 triple mower it is best to slacken the tension of the wing unit drive belts because this can restrict the adjustment of the height of cut.

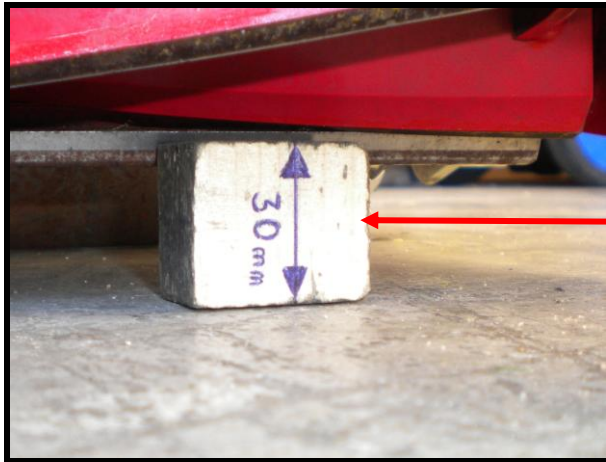
To slacken this belt, first of all grab it and squeeze the two sides together as shown. This will have the effect of moving the cutting unit forwards along its slider pin.



With the belt being squeezed slacken off this locking nut and this pinch bolt which you will find at the back of the units slider pin.

This will allow this collar to slide forwards against the units arm.

Then re-tighten the bolt which will hold the collar in its new position. Therefore when you let go of the belt it will no longer be under tension.



Next, lower the cutting unit onto a flat and level surface. If you do not have a flat and level surface, lower it onto a piece of flat board or the bed of a trailer.

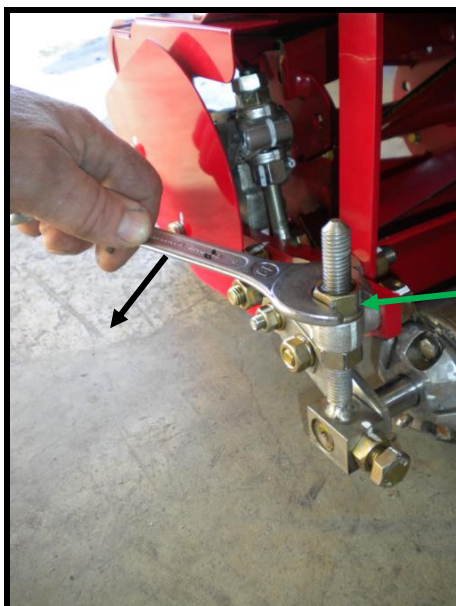
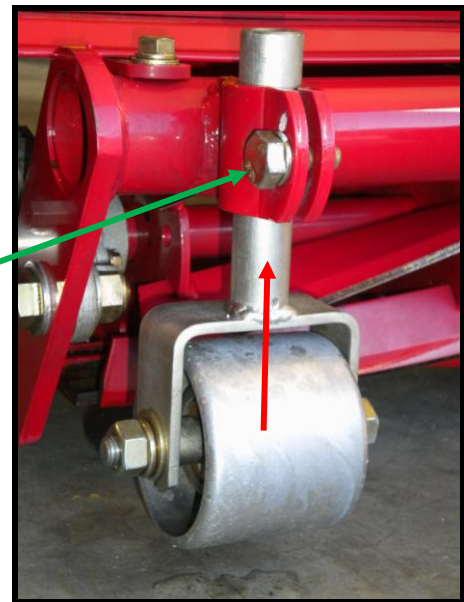
Then place your measuring block on the level surface, up against the bottom blade.

In this example you will see that the unit is set too high as the cutting edge of the bottom blade is above the surface of the measuring block

If you are lowering the height of cut by a considerable amount you might need to raise the front anti-scalp rollers up before commencing the height of cut adjustment. If you are raising the height of cut then you can ignore this section.

To raise the anti-scalp rollers first of all slacken this 17mm pinch bolt but twisting it anti-clockwise.

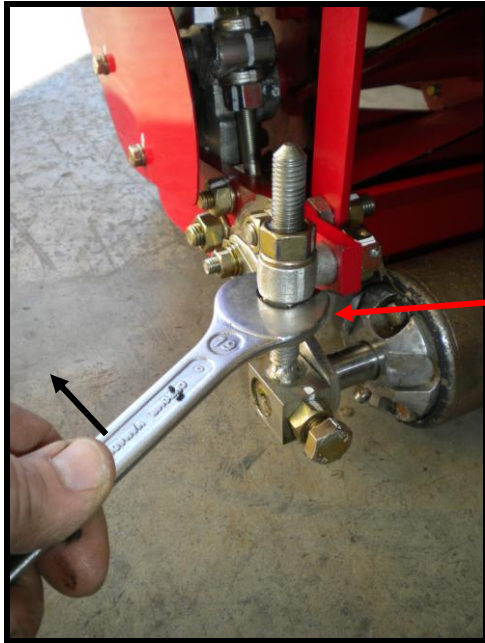
The physically raise the anti-scalp roller up before re tightening the pinch bolt to hold it into its new position. (At this stage the height that you set the anti-scalp roller to does not have to be accurate as this will be re-set after the height of cut adjustment is complete)



Next, loosen the top nut of the rear roller adjusting assembly as shown.

Repeat this for both ends of the rear roller.



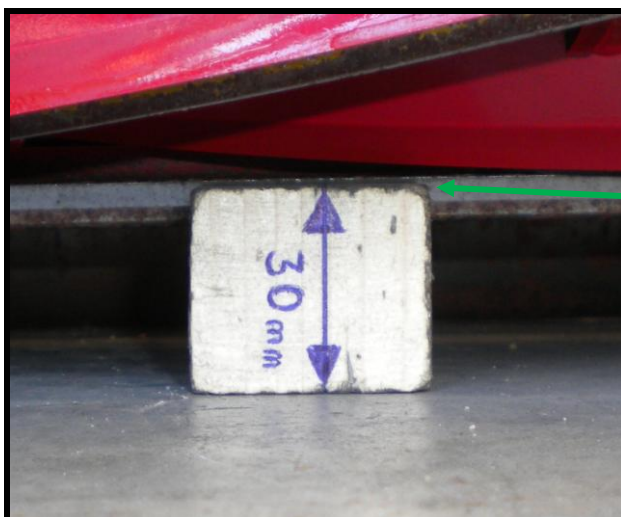
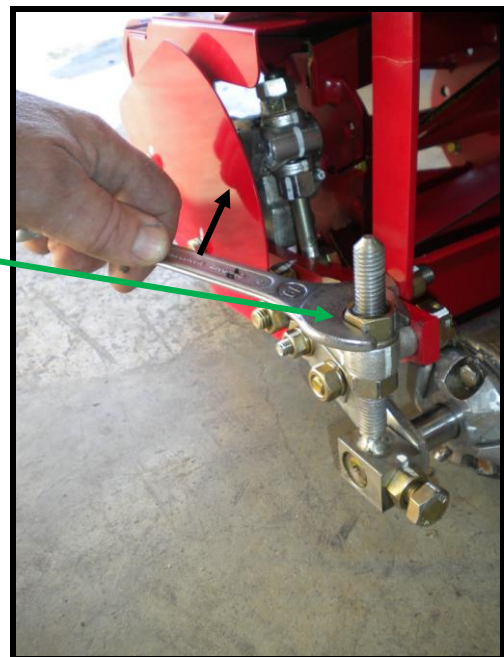


Then, in order to lower the height of cut, undo the lower adjuster nut of the rear roller assembly by rotating it clockwise. The more you undo it the more you will lower the height of cut.

Repeat this for both ends of the roller.

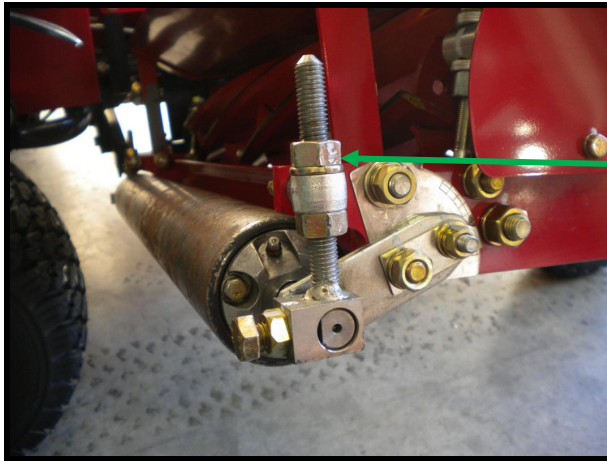
Lower the upper nut at the same time that you lower the bottom nut. This will have the effect of raising the rear roller and therefore lowering the height of cut. Repeat this for both ends of the rear roller.

If you wanted to raise the height of cut then you should raise both nuts at the same time in order to lower the rear roller.



Repeat this process until the measuring block is level with the height of the cutting edge of the bottom blade as shown.

Make sure that this setting is achieved at both ends of the blades and not just in the middle.



Once you have reached your desired height of cut setting, tighten this top nut making sure that you do not change the height of cut.

Just to be sure, re-check that the height of cut is still correct and adjust again if necessary.

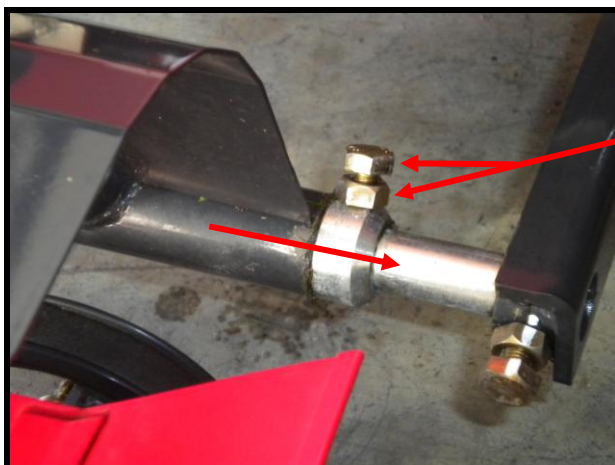
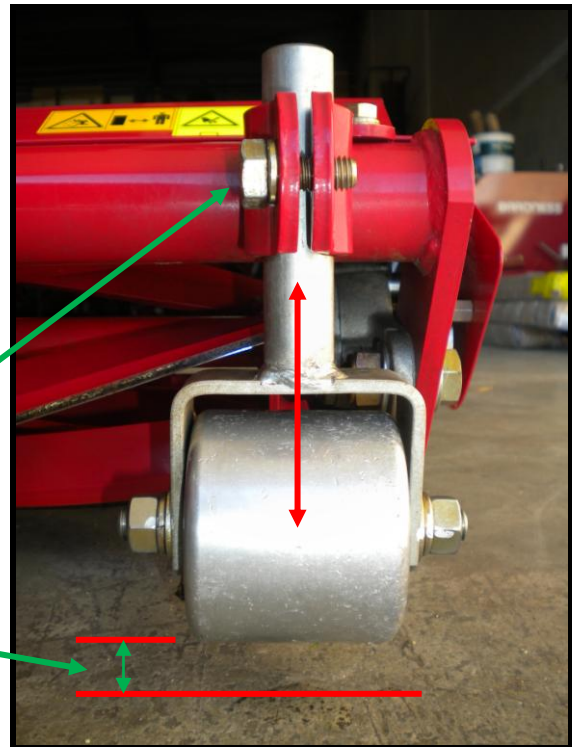
Once you have successfully adjusted the height of cut you will then need to adjust the height of the anti-scalp rollers.

The anti-scalp roller should be adjusted so that there is a clearance of about 10mm between the bottom edge of the roller and the base of the level surface.

To adjust the height of the anti-scalp roller, firstly loosen this pinch bolt.

With this pinch bolt loose, slide the roller assembly either up or down until a height of 10mm is obtained between the base of the roller and the surface.

Repeat this for both anti-scalp rollers.



Finally, re-tension the wing unit drive belts.

To do this, slacken this nut and pinch bolt.

The cutting unit should then slide back under spring pressure along the slider pin tensioning the belt.

Once the belt is tension, re-tighten the pinch bolt and then lock it into position by tightening the lock nut.