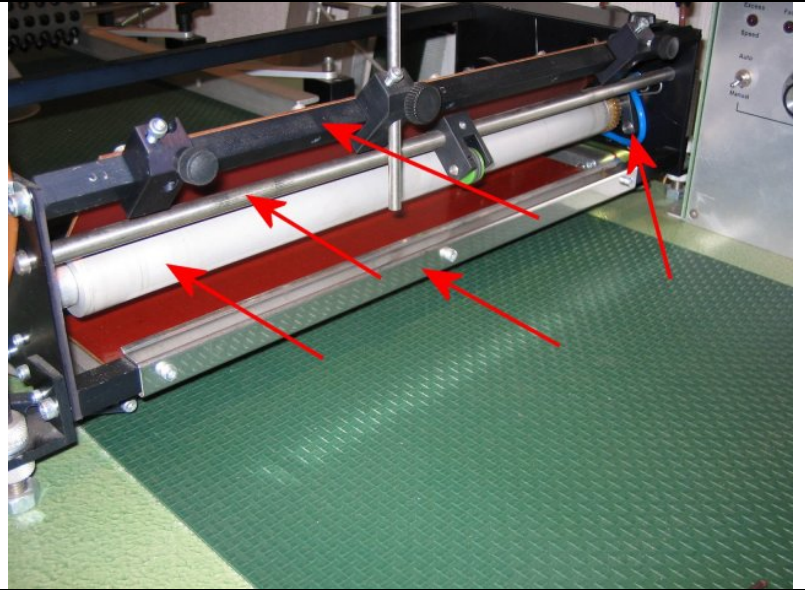


Oscillating Seed Tray Fitting Instructions (v4)

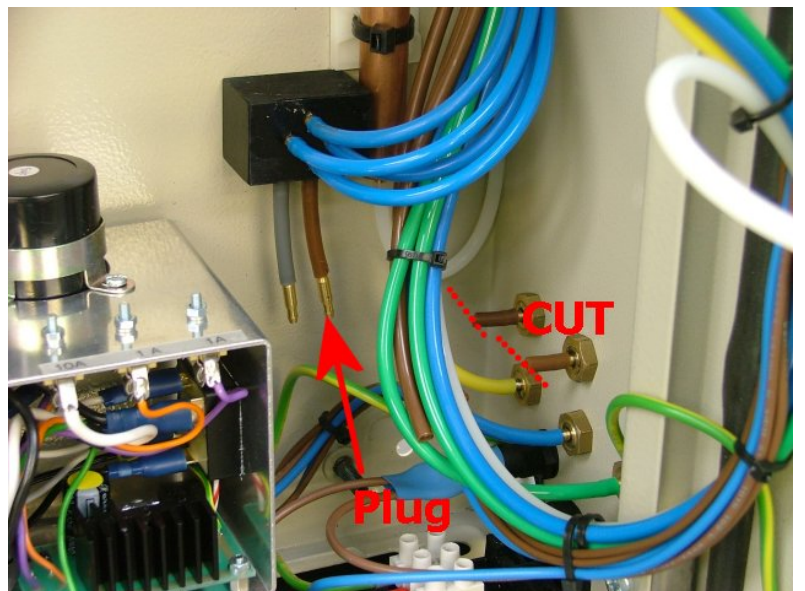
Disconnect the main electrical and air supplies to the machine before commencing work.

1) Remove existing rear roller, swing arms and swing pins, tensioner shaft, lower scraper blade and upper rear frame bar and attachments. Remove the air jet tubes.

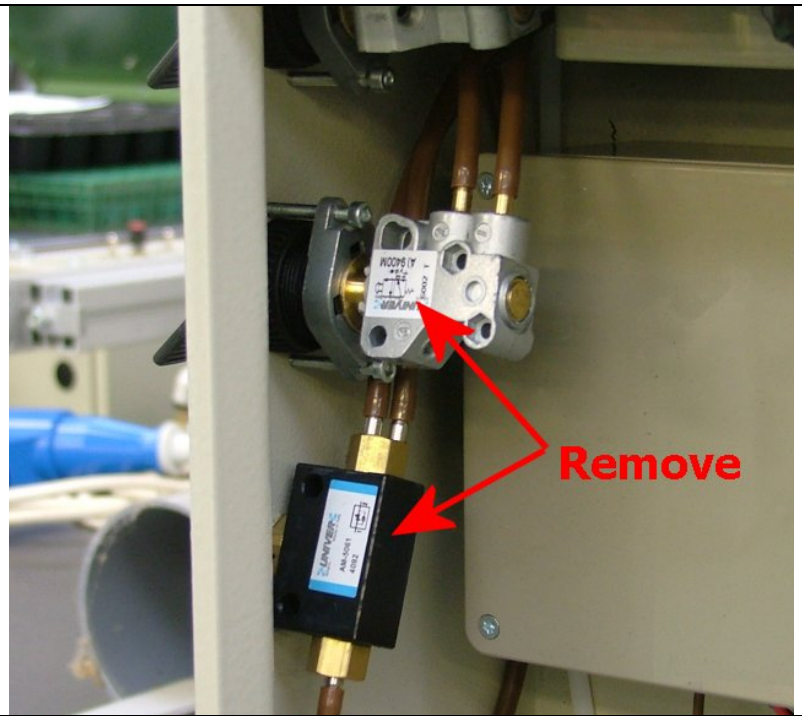


2) Cut the brown 3/16" air jet supply at the air inlet manifold, and plug with the plug barb provided.

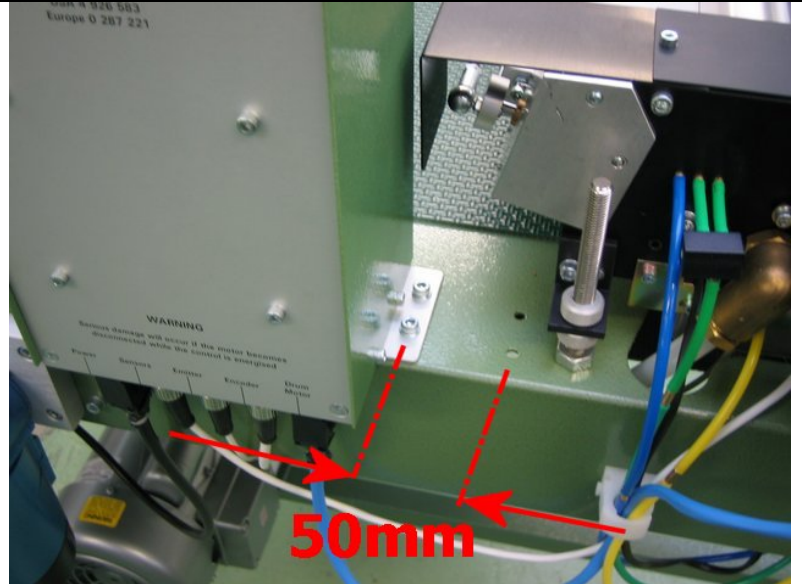
Cut the two brown air jet feed tubes at the bulkhead connectors.



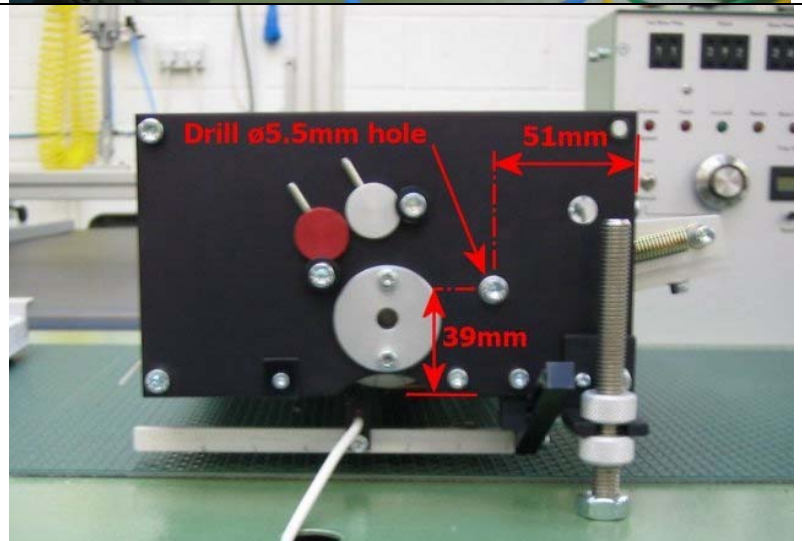
3) Remove the Air Jet on/off switch valve, flow control valve, and associated brown tubing.



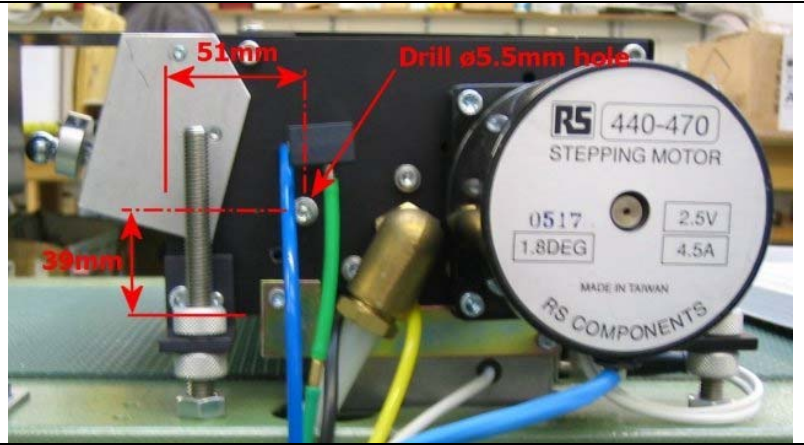
4) Undo the digital control box, and reposition it 50mm further away from the seeder head. Redrill the mounting holes and re-fix to the conveyor body. Use the motor extension lead to reconnect the stepper motor.



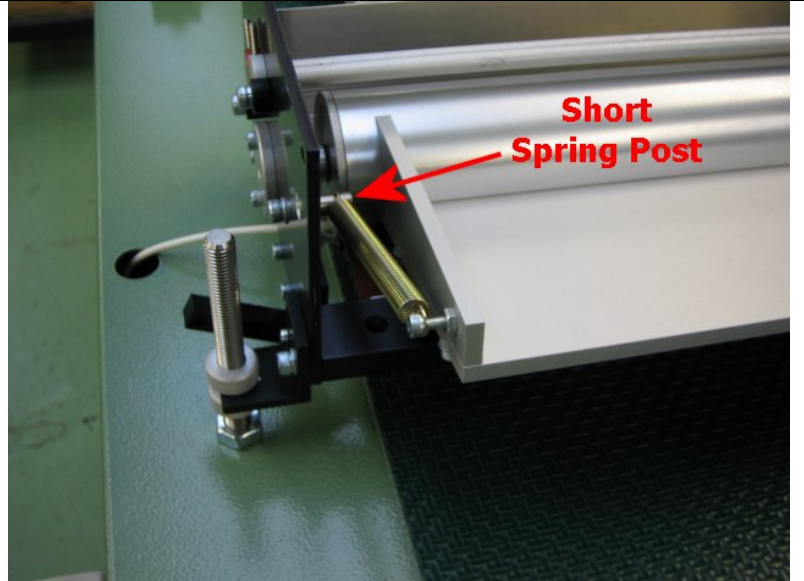
5) Drill a 5.5mm diameter hole in the datum end plate as shown. Dimensions are measured from the edges of the datum end plate. (51mm and 39mm)



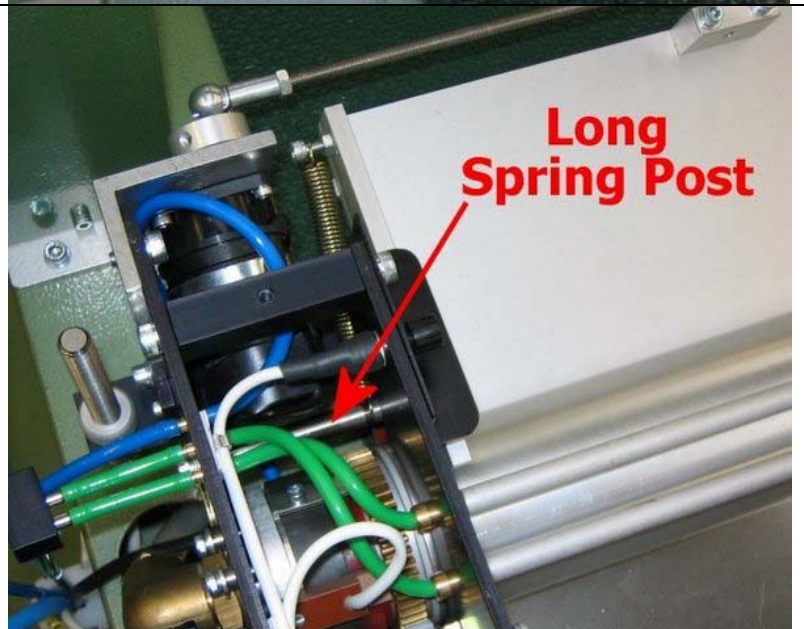
6) Drill a 5.5mm diameter hole in the drive end plate as shown. Dimensions are measured from the edges of the drive end plate. (51mm and 39mm)



7) Fit the short spring post to the datum end plate using the hole drilled in step 5.

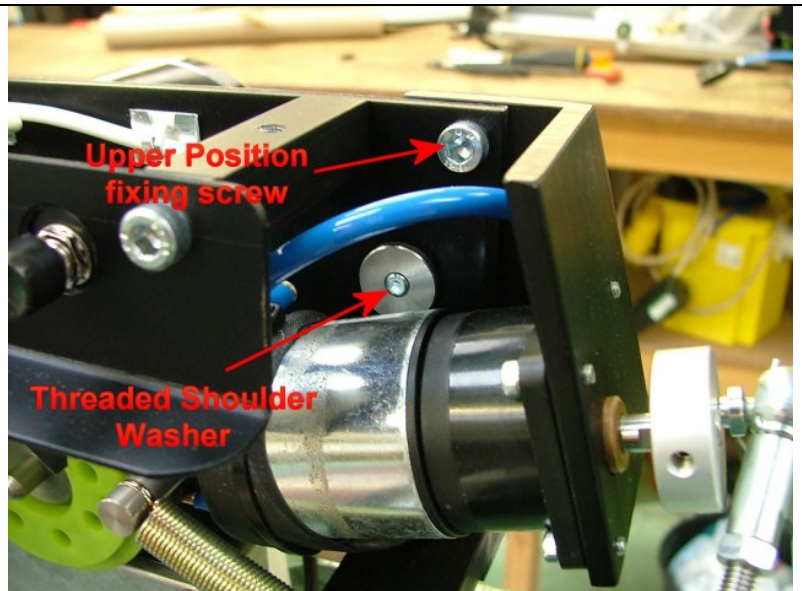


8) Fit the long spring post to the drive end plate using the hole drilled in step 6.



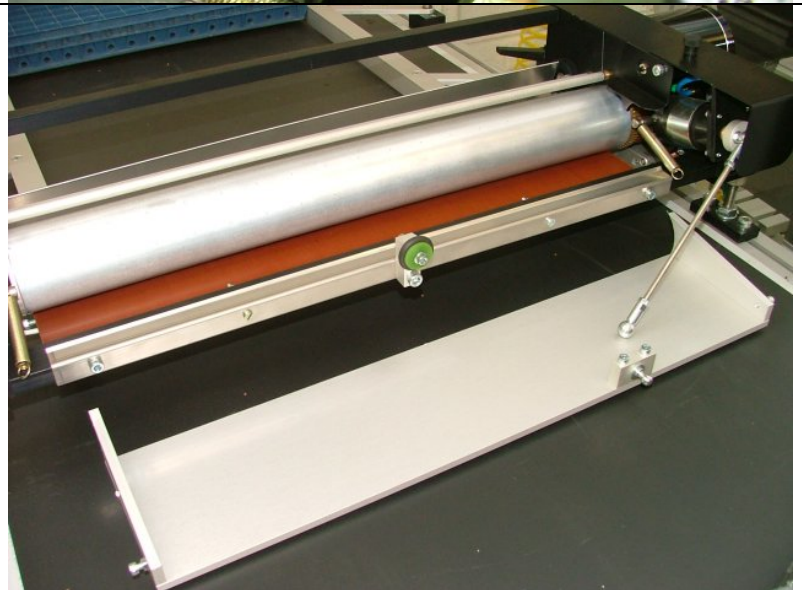
9) Fit the switch guard by removing the 5mm screw, and refix with the plate in the position shown.

Fit the motor assembly, using the threaded shoulder washer to locate the fixing screw in the larger hole. Note: Fit the M5x10 socket head screw from the outside, into the shoulder washer, and another M5x10 socket head cap screw in the upper position as shown.

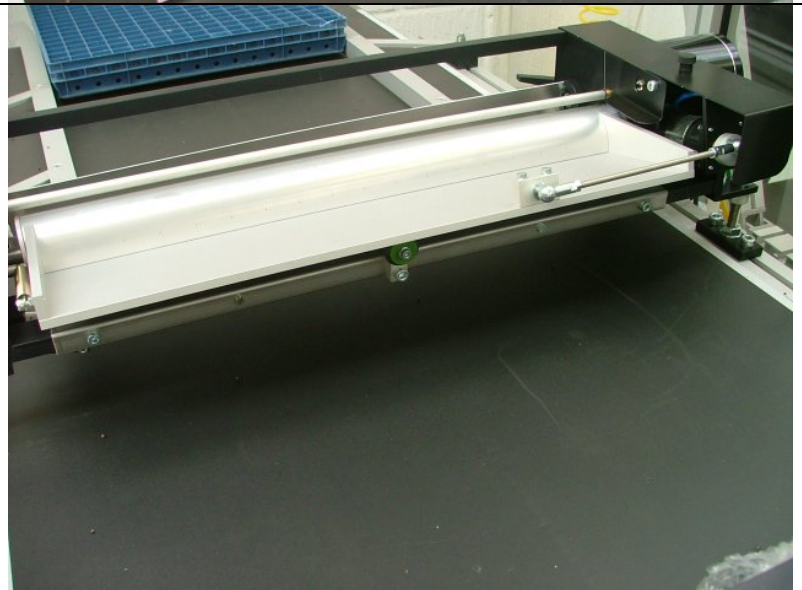


10) Remove the existing lower frame bar, and fit the new wider lower frame bar, scraper blade, and rear mounting post and roller as shown.

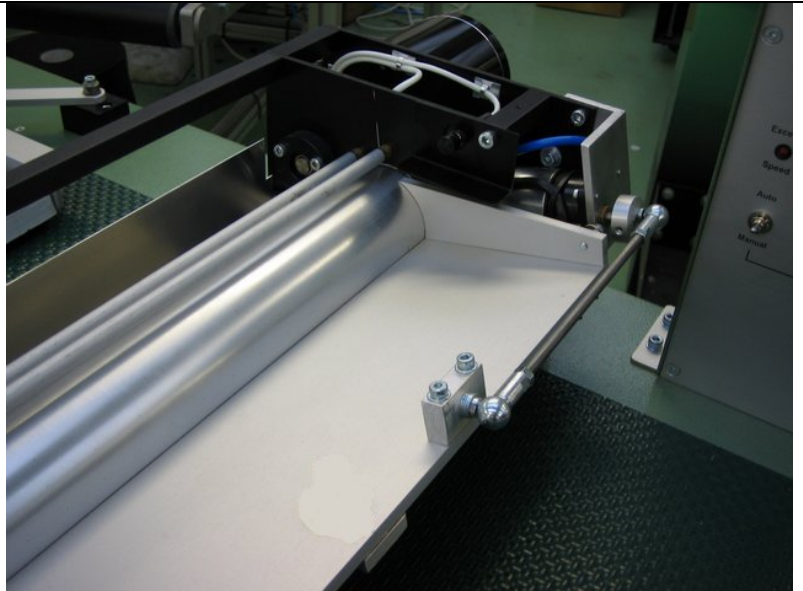
Before tightening the screws in the end of the frame bar, check that the scraper blade is in contact with the drum along its complete length.



11) Fit the springs to the grooves in the mounting posts, hold the tray in position, and hook the springs onto the mounting posts on the tray.



12) Clip the ball joints of the tie rod to the motor wheel and tray. Rotate the motor wheel, and check that the movement of the tray is equal in the slot of the tray. Adjust the length of the tie rod if necessary.



13) Fit the gear cover and motor cover.



14) Fit the switch to the control box – we suggest the position shown – from where the air jet flow control was removed.



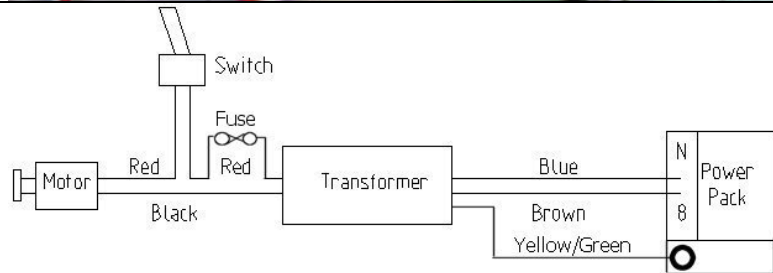
15) Fix the transformer to the control box with double-sided tape.



16) Connect the supply for the transformer to the power pack terminals N (Neutral – Blue wire) and 8 (Line – Brown wire). Connect the Yellow/green wire to the earth screw.



17) Wire the output from the transformer to the motor, connecting the positive wire via the switch.



IMPORTANT NOTE: At the datum end of each drum is a single centre-pop mark used to align the drum end. The high points of this mark should be carefully removed with the abrasive paper supplied. Failure to do this will cause damage to the impregnated fabric edges of the seed tray, which could permanently damage the drum. Smooth these marks on all your drums.

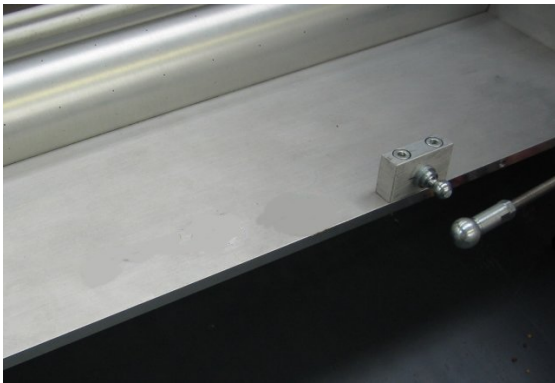


Oscillating Seed Tray Instructions

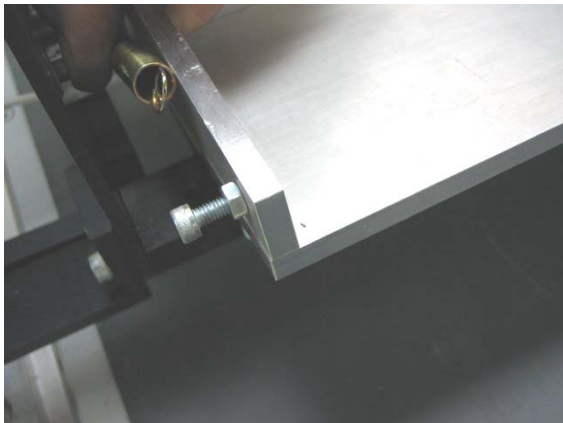


The oscillating seed tray is powered by a small 12 volt geared motor mounted at the drive end of the seeder. An offset crank connects it to the tray via a rod linkage with ball joints. The tray is held against the surface of the tray with springs, and is supported at the back end by a roller. The side-to-side motion created will agitate the seeds in the tray, making them pick up more easily. The mating faces of the tray and drum are covered with a PTFE impregnated fabric material to prevent wear to the surfaces.

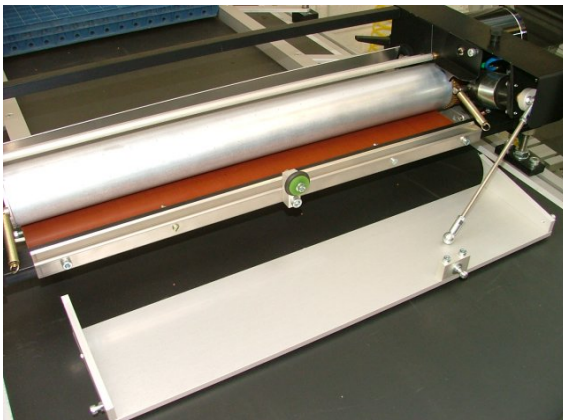
Tray Removal



Remove the ball joint where it connects to the tray..

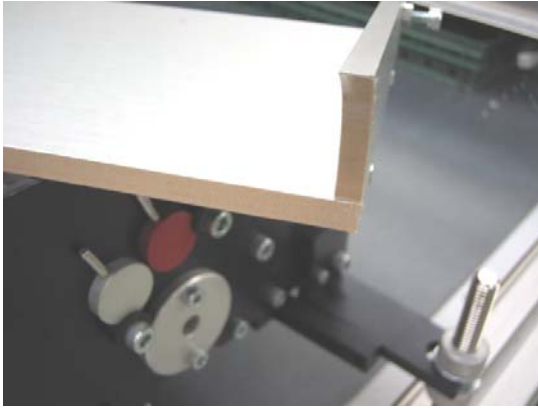


Remove the springs from each end by unhooking them from the screws. The springs will remain in place on the inner mounting posts.



Lift off the seed tray.

Maintenance



Carefully inspect the fabric covered edges of the seed tray for signs of damage. Under no circumstances use the tray if the fabric is missing or damaged, as it may cause irreparable damage to the drum. Wash the seed tray using warm, soapy water and a soft cloth. Do not use solvents of any kind, as they can remove the adhesive backing of the fabric.

Operation



Turn on the seeder power switch on the top of the main control box. Switch the seed tray switch on the end of the control box to the down position. The tray will run until the switch is lifted, or the main power is turned off. Avoid running the tray for long periods without sowing, to preserve the life of the anti-wear impregnated fabric material.



The normal running position for the rear roller is shown here.



The seed tray can be tilted upwards as shown when sowing smaller seeds or smaller quantities. Loosen the fixing screw and adjust the roller arm to suit.