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2019 MODEL

GENTLE ROLLER OWNER'S MANUAL

PART 1

SETTING UP

THE GENTLE ROLLER

RELEASED FEB 2019



Setting up your Gentle Roller.

It is recommended you watch the instructional video on the Exclusive page. The video is titled: "2019 Gentle Roller Assembly"

You should have received two cartons if you ordered without a fulling drum or three cartons if you ordered with a fulling drum.

The cartons are identified as:

- 1) Control Housing
- 2) Roller Assembly
- 3) Fulling Drum.

1. Control Housing:

Remove all parts from the Control Housing carton and lay them in a clean space for easy identification.

Check all parts are present:

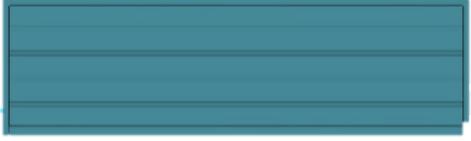
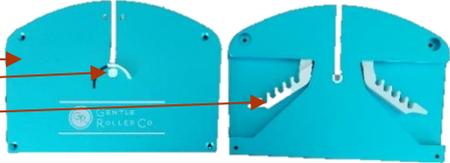
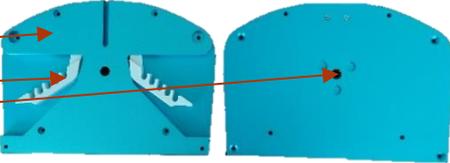
<p>Control Housing:</p> <p>There should be no reason to open the housing and unauthorized opening will void your warranty.</p> <p>The control panel decal has a protective thin plastic cover - please remove and dispose of carefully.</p>	
<p>A power pack/transformer:</p> <p>Complete with a lead suitable for your power point.</p>	

- 1.1. No assembly is required so if all parts are in good condition they can be put aside for now.
- 1.2. Note that the control panel has a clear protective film that can be removed at any time.
- 1.3. Your pack should have a suitable electrical pin for your region. If it does not you can use a traveller's converter for the power pin end that you have. If this is problematic, please contact us at info@gentleroller.com.au

2. Roller Assembly:

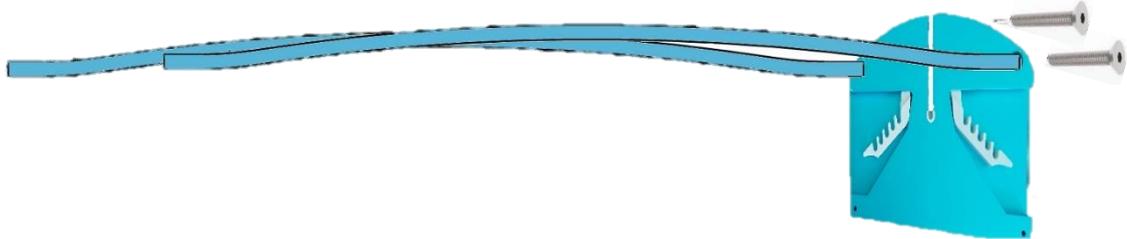
Remove all parts from the Roller Assembly carton and lay them in a clean space for easy identification.

Check all parts are present:

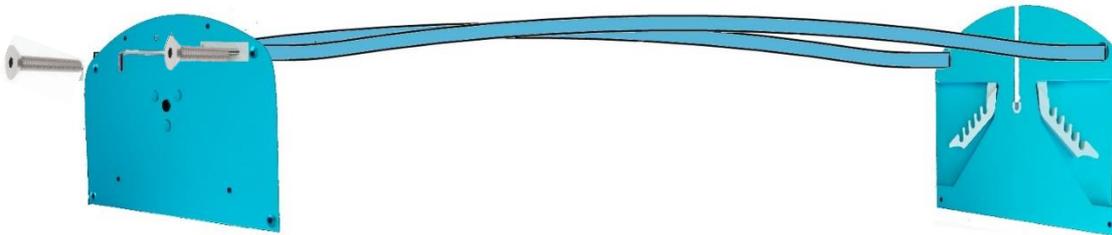
Item	(Diagrams/pictures not to scale)	Qty
Metal Base Frame		1
Spill Tray		1
Metal Cross-Support Bars		2
Aluminium Right End Panel (Sub-Assembly)	(shown front and back in diagram)	
Common names used: End Panel Sliding Lock Pivot Hooks		1
Aluminium Left End Panel (Sub-Assembly)	(shown front and back in diagram)	
Common names used: Left End Panel Pivot Hooks Enclosed Bearing		1
Drive Roller (Grey)		1
Idle Roller (Burgundy)		3
Aluminium Hex Drive Plate		1
Assembly Screws - M6 x 25mm Counter Sunk Head		8
Control Housing Connector Screws - M6 x 20mm Button Head		4
Allen Key		1
Velcro Straps		1 Pack (6 Pieces)

2.1 Quick Guide Assembly Instructions - Roller Assembly:

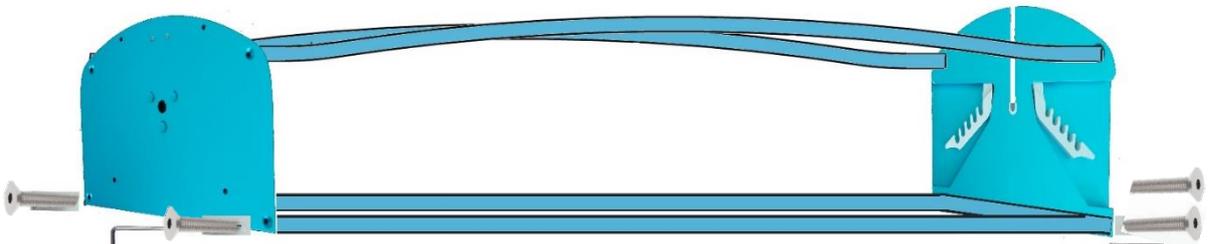
2.1.1 Connect the Right End Panel Sub Assembly) to the Cross-Support Bars using the Assembly Screws (M6 x 25 Countersunk) and the Allen Key provided. Make sure the cross-support bars are fully engaged in the aluminium end panel.



2.1.2 Connect the Left End Panel (Sub Assembly) to the Cross-Support Bars using the Assembly Screws (M6 x 25 Countersunk) and the Allen Key provided. Make sure the cross-support bars are fully engaged in the aluminium end panel.



2.1.3 Slide the Base Frame in between the End Panels and using more Assembly Screws connect the Base Frame to the two End Panels.

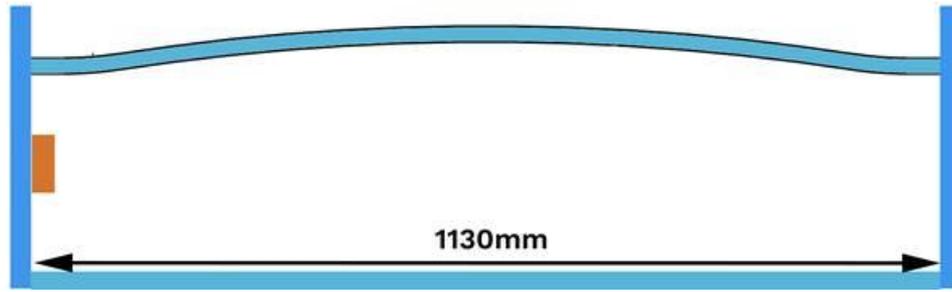


2.1.4 Ensure all screws are tightened.

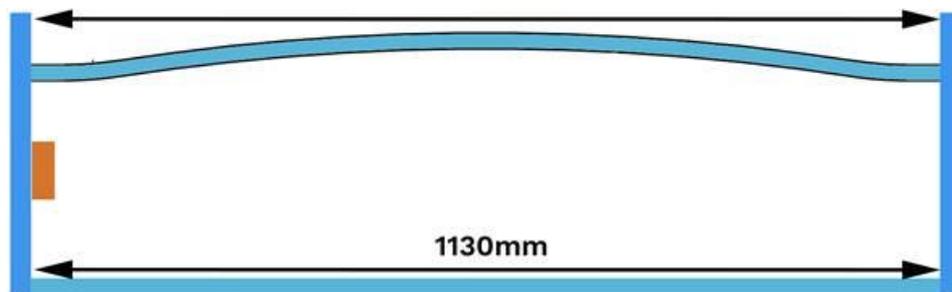
2.1.5 The Cross-Support Bars should be vertical with the highpoint upper-most. (It can be down or outward if preferred but NOT facing inward).

2.1.6 Once more, ensure the cross-support bars are fully engaged in the end plates

2.1.6.1 measure the distance between the aluminium plates at the bottom of the roller assembly (this is the width of the metal frame located under the tray). The distance should be 1130 mm plus or -2 mm for the GR1100FD and 1430mm +_2mm for the GR1400FD.

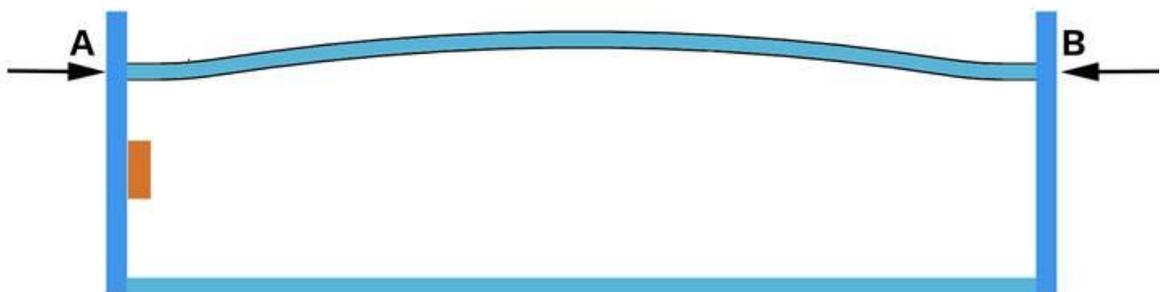


2.1.6.2 now measured the distance between the top of the aluminium plates at the uppermost point as shown in the diagram below.



2.1.6.3 The distance at the top should also be around 1130 mm +/- 5mm/ 1430 mm +/- 5mm

2.1.6.4 If the distance is not as specified it indicates that the cross-support bars are not fully engaged in the endplates.



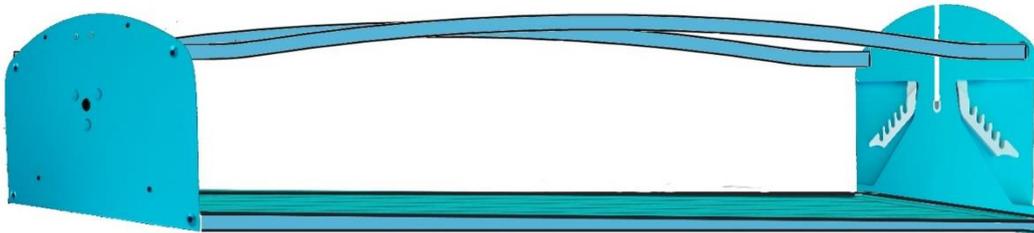
2.1.6.5 place some support behind one of the plates and point A in the diagram below (it could be the palm of your hand if you are strong, or you could place it against a wall or solid surface). Hit the opposing aluminium plate around point B - NEAR THE SCREW BUT NOT ON THE SCREW. You could hit it with the palm of your hand, or use a soft rubber hammer, or a hammer wrapped in a cloth or tea towel ie cushioned to avoid scratching your aluminium and plate. If there is any movement to be had it shouldn't take too much force (you're probably only trying to overcome some thick painting).

2.1.6.6 If the plate at point B moves at all the two upper screws will become loose and you can tighten them.

2.1.6.7 Repeat the procedure by placing some support behind the right end plate at B, and hitting it at point A (NOT ON THE SCREW BUT NEAR THE SCREW) to see if the plate at A moves that all. Tighten the screws if necessary.

2.1.6.8 once you have successfully closed the gap at the top of the aluminium plates to around the same as the base you are ready to continue. If you cannot get the distances as specified contact us for further advice - info@gentleroller.com.au

2.1.7 Insert the Spill Tray into the Base Frame.



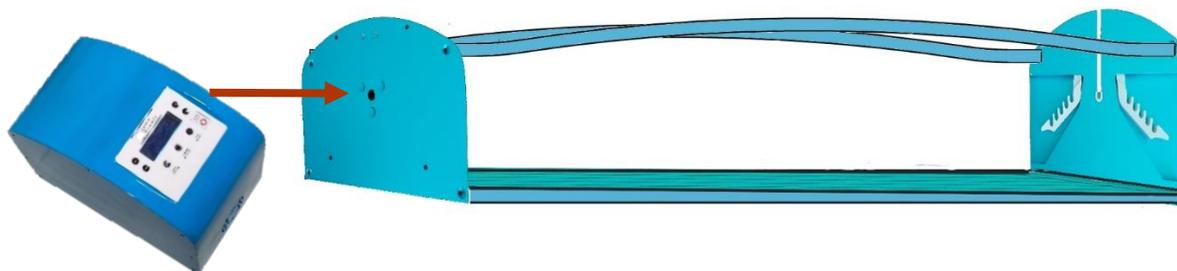
2.1.8 DO NOT insert the Hex Drive Plate, Drive Roller or Idle Rollers just yet.

2.1.9 Your Roller Housing is ready to connect to your Control Assembly.

2.2 Connecting your Control Housing to your Roller Assembly

2.2.1 Place the Roller Assembly on a stable flat surface where you intend to use it. The roller assembly sliding lock should be on your right-hand side as you face the assembly. Ensure there is enough room on the left side to fit the Control Housing.

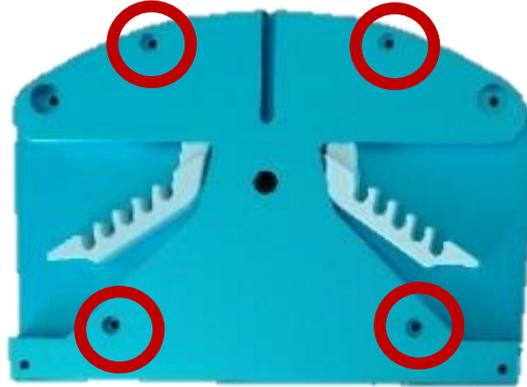
2.2.2 Carefully place the Control Housing on the left side of your Roller Assembly.



2.2.3 Line up the Control Housing with the Roller Assembly and bring them together.

2.2.4 Ensure the drive shaft of the Control locates itself in the central hole of the end panel (diagram above)

2.2.5 Using the 4 x 6M x 20mm button head screws, locate them in the four holes (where shown).



2.2.6 LOOSELY TIGHTEN THE SCREWS with the Allen key. DO NOT over-tighten the screws or you will not be able to locate the hex drive plate.

2.2.7 Ensure the square drive shaft is centrally located in the hole.

2.2.7.1 Note: One way to do this is to use the end of the Allen Key and push it into the hole adjacent to the drive shaft, to locate the square drive shaft.



2.2.8 With the drive shaft centralized, locate the aluminium hex drive plate onto the drive shaft within the central hole. Note: it may take some wriggling to locate the hex drive plate onto the drive shaft.

2.2.9 Once the hex drive plate is located, tighten the button heads screws a little more.

2.2.10 DO NOT OVERTIGHTEN the button headed bolts. The Control Housing DOES NOT need to be bolted tightly to the Roller Assembly to operate.

2.2.11 The hex drive plate should move in and out of the hole with relative ease. If the hex drive plate is tight and does not move freely it indicates that the bearing and motor are under unnecessary loading.

2.2.12 When fully engaged, there should be approximately a 2mm gap between the hex drive plate and the aluminium end panel.

2.2.13 NEVER PICK UP THE CONTROL HOUSING AND ROLLER ASSEMBLY AT THE SAME TIME WHEN CONNECTED. Remove the screws and move your Control Housing and Roller Assembly separately if required.

OPTIONAL

3. Fulling Drum Carton

Remove all parts from the Fulling Drum carton and lay them in a clean space for easy identification.

Check all parts are present:

Item	(Diagrams/pictures not to scale)	Qty
<p>Fulling Drum Assembly (complete) Common names used: Handle Finger Grips</p>  <p>Common names used: Sliding Lock Door Panels</p>  <p>Drum Sliding lock closed and open</p>		1
<p>Fulling Bags (S/M for GR1100 - S/M/L for GR1400)</p>		2 or 3
<p>Pin End Cap</p>		1
<p>Hex End Cap</p>		1

3.1 Connecting your Control Housing to your Roller Assembly

Place the Roller Assembly on a stable flat surface where you intend to use it. The roller assembly sliding lock should be on your right-hand side as you face the assembly. Ensure there is enough room on the left side to fit the Control Housing.

3.2 Quick Assembly Guide

- 3.2.1 Place the Hex Drive Cap in one end, ensuring the keyed molding on the Hex End Cap align with the key holes in the plastic end cap moldings.
- 3.2.2 Place the Pin End Cap in the other end ensuring one of the nubs aligns with the key holes.
- 3.2.3 Press the ends firmly into the plastic end cap moldings. If it is a tight fit, hit lightly with the palm of your hand or a soft covered hammer to ensure the pins are fully engaged.



Shown with ends fully engaged.

- 3.2.4 Your drum is ready to use.
- 3.2.5 Ensure the sliding locks are fully engaged when either open or closed. You should hear and feel a noticeable 'click' when they engage. (Note: Locks may be quite firm at first but will loosen over time)



Lock Closed



Lock Open



Drum Door Open

3.3 Care of your Fulling Drum

- 3.3.1 Do not drop or throw the drum. Place gently on flat surface when not in use.
- 3.3.2 Wipe with soft cloth or towel.
- 3.3.3 Take care when closing drum lids.
- 3.3.4 Keep hands and fingers away when drum is operating.

4. Test your Gentle Roller is working as expected.

4.1 Before placing your rollers in the Roller Assembly

- 4.1.1 Plug in the power pack into the location on the back of the Control Housing. Plug the power cord into a nearby wall socket and turn the power on.
- 4.1.2 Turn on your Gentle Roller with the power on/off switch located on the back of your Control Housing. There is no light in the power on/off switch.
- 4.1.3 After a few seconds your display screen will light up and go to the start menu.
- 4.1.4 There are several videos covering the control panel operation in the Exclusive Content page of the Gentle Roller website.

4.2 Test your Control (without rollers)

- 4.2.1 Press the button to the left of "Felting".
Press the button to the right of "New Item".
Press the "Start/Stop" button.
- 4.2.2 Your Gentle Roller hex drive plate should oscillate forward and backward. There will be the sound of the Control working but you should not hear any grinding or grating noise. If all seems well, increase the speed to 100% by;

Pressing the button to the left of speed
Repeatedly press the button to the right of +5%.

The speed will adjust until it reaches 100%.

If all is well press "Start/Stop" to stop your Control.

Press "Menu" twice to return to the start menu.

4.3 Test with your rollers

- 4.3.1 Load the Drive Roller first. Make sure the locking slider is open. Place the hex end of the Drive Roller into the hex drive plate and simultaneously lower the pin into the slot at the right-hand end of the machine.

If the Drive Roller is too tight to fit into the locking piece at the right hand side, ensure that the end panels of the roller are fully engaged.

Ensure the gap between the hex drive plate and the end panel is no more than 2-3mm. If larger than 3mm, make sure your hex drive plate is fully engaged. If the hex drive plate is fully engaged you may need to loosen the control assembly slightly to help reduce the gap if necessary.

If each of the above does not ensure an easy fit of the drive roller into the locking piece, it is ok to file down the plastic pin on the drive roller to ensure a comfortable fit. Ensure the pin is smooth after filing with no burrs or sharp points.

Close the curved locking slider. The Drive Roller should be horizontal.

4.3.2. Place the near side Idle Roller in the pivot hooks. Note you must approach from UNDER the cross-support bar.

4.3.3 You will need to lift the pivot hook slightly to get the Idle Roller in the first pin location.

4.3.4 Locate the far side pivot hook in a similar manner. Both Idle Rollers should be parallel to the Drive Roller and close to, if not touching, the drive roller.

If the Idle Rollers do not fully touch the Drive Roller it is not a problem as the gap will be occupied when you roll material onto the Drive Roller.

If there are apparent high spots in areas of the PU roller cover, these can be wriggled out. If the roller seams bowed, they are pvc internal tubing which you can try and flex straight.

If there are gaps between sections of your drive or idle rollers, these are acceptable and can be up to 2mm wide without concern (the pattern allows for 2-5mm gaps between high spots)

4.3.5 Place the third top roller in the slots at both ends of the Roller Housing. It should lie on top of the Drive Roller.

4.3.6 Press the button to the left of "Felting".
Press the button to the right of "New Item".
Press the "Start/Stop" button.

4.3.7 Your Gentle Roller rollers should all oscillate forward and backward. There will be the sound of the Control working but you should not hear any grinding or grating noise. If all seems well, increase the speed to 100% by;

Pressing the button to the left of speed
Repeatedly press the button to the right of +5%.

The speed will adjust until it reaches 100%.

If all is well press "Start/Stop" to stop your Control.

Press "Menu" twice to return to the start menu.

If the rollers all moved in unison the Roller Housing is operating correctly.

4.4 Test with your Fulling Drum (optional)

4.4.1 Remove the Idle Rollers. Make sure the sliding lock is open and remove the Drive Roller.

4.4.2 Lift your fulling drum using the finger grip locations shown.



- 4.4.3 Place the hex end of the Fulling Drum into the hex drive plate and simultaneously lower the pin into the slot at the right-hand end of the machine. Close the sliding lock. The Fulling Drum should be horizontal.
- 4.4.4 If using the GR1400 Fulling Drum you may need assistance to load your Fulling Drum (empty weight is approximately 8kg but it is awkward to handle).
- 4.4.5 Load with the two latches white sliding locks and the handles toward the top.
- 4.4.6 Open the latches (they will be firm and you should hear an audible click when they engage/disengage).
- 4.4.7 Open and close the Fulling Drum lids a few times to ensure they have free movement.
- 4.4.8 Close the two lids (there is a correct sequence which should be obvious)
- 4.4.9 Close the two drum sliding locks.
- 4.4.10 Press the button to the right of "Fulling". (WARNING: if you are on felting cycle you will overload the Control and the auto cut-off will shut down the control panel momentarily. It will re-boot automatically)
Press the button to the right of "Continue".
Press the button to the right of "New Item".
Press the "Start/Stop" button.

Your Fulling Drum should oscillate forward 10-13 rotations and backward 10-13 rotations.

If all seems well, increase the speed to 70%. There is usually no reason to full faster than 70-75% but the Control will operate safely at up to 100%.

If all is well, press "Start/Stop" to stop your Control.

Press "Menu" twice to return to the start menu.

Remove your Fulling Drum.

Assembly and set-up is complete.

If you are familiar with the instructional videos on the control panel now is the time to play around with the controls and become familiar with them.

Once you're ready, you can begin your first project.

Good felting,

Gentle Roller Company



Note: We are always looking to provide the clearest possible explanation for Gentle Roller users to get the best out of their machine. If you find spelling or grammar errors, or if you find any section in this document confusing please contact me, philip@gentleroller.com.au, and I will address your comment and update the booklet accordingly.

Make your own notes here: