

Using the Cylinder Frame on the PR-620

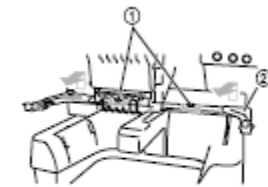
The cylinder frame allows you to embroider items like pants, sleeves, bags and cylindrical items without having to open the seams. Learn how to hoop with cylinder frame, attach the cylinder driver to the machine, attach the cylinder frame to the cylinder driver and screen settings for the cylinder frame.

The cylinder frame is designed to be used with the upgraded PR-600 II or PR-620.

The cylinder frame consists of three pieces: The cylinder driver, the cylinder mounting jig and the cylinder frame.

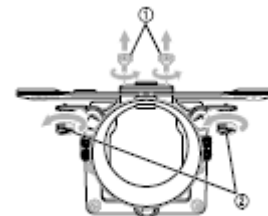
Install the Cylinder Hoop Driver:

1. Turn the machine off. Loosen and then remove the two thumb screws and the embroidery frame holder.



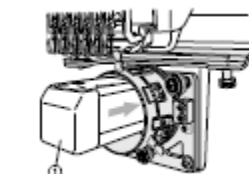
- ① Thumb screws
- ② Embroidery frame holder
- The removed thumb screws remain attached to the embroidery frame holder.

2. Remove the two upper thumb screws of the cylinder frame driver and loosen the two lower thumb screws.



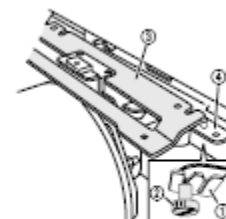
- ① Upper thumb screws (smaller)
- ② Lower thumb screws (larger)

3. Pass the machine bed through the ring of the cylinder frame driver. *Note: Be careful that the driver doesn't hit any parts of the machine, such as the presser foot.*



- ① Machine bed

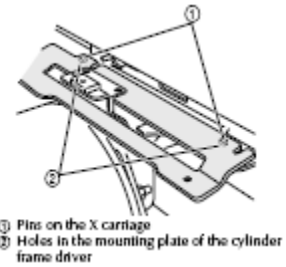
4. Insert the two lower thumb screws at the bottom of the cylinder driver into the v-cuts in the carriage. Then place the mounting plate of the cylinder driver on top of the frame mounting plate on the



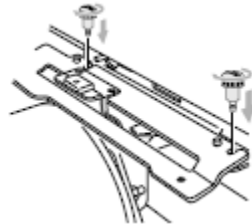
- ① Notch in the carriage
- ② Thumb screw of the cylinder frame driver
- ③ Mounting plate of the cylinder frame driver
- ④ X carriage

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5. Insert the pins on the frame mounting plate of the carriage into the holes on the mounting plate of the cylinder frame driver.



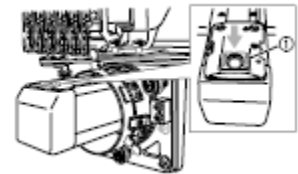
6. Tighten the two upper thumb screws.



7. While pushing in the cylinder frame driver towards the machine so that it is fully inserted, tighten the two lower thumb screws to secure the cylinder frame driver.



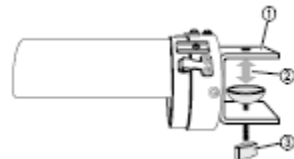
8. Attach the needle plate spacer to the needle plate.



9. Turn the machine back on and the following icon appears in the hoop area of the screen indicating the cylinder frame is to be used.



Attach the cylinder frame to the mounting jig and hoop a project.



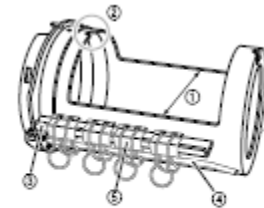
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1. Loosen the thumb screw for the cylinder frame mounting jig, then open the mounting bracket so that it is wider than the thickness of the mounting surface.



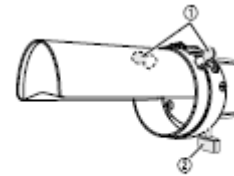
2. Securely clamp the mounting bracket onto the mounting surface, and then tighten the thumb screw.

Cylinder frame

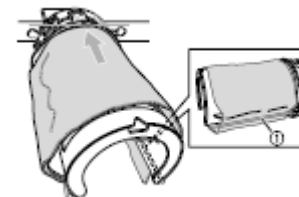


- ① Embroidering area (90 mm (width) × 80 mm (high))
- ② Notch indicating the center of the embroidering area
- ③ Stabilizer material mount
- ④ Fabric mount
- ⑤ Clips (8)

3. Attach the cylinder frame to the cylinder mounting jig. Align the notch in on the cylinder frame with the notch on the cylinder frame mounting jig, and then press the frame until it snaps into place.



- ① Holder
- Secure the cylinder frame with the two holders.



- ① Stabilizer material mount

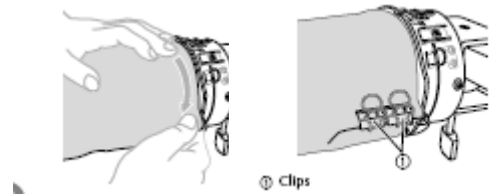
4. Secure the stabilizer material with the stabilizer material mount on the left and right sides of the cylinder frame.

Secure the stabilizer so that it doesn't extend past the dotted line in the illustration.

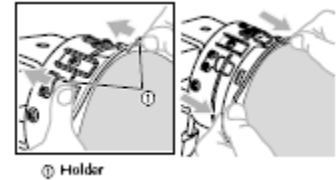
Depending on the fabric used, stack up to 3 layers of 5.12" high by 9.85" wide stabilizer.

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5. Align the center of the fabric with the notch in the cylinder mounting jig. It is recommended that you first mark the center of the fabric with a chalk pencil.



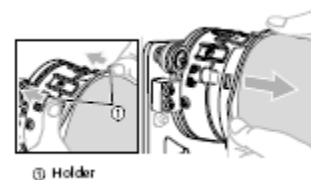
6. Pull the ends of the fabric out from the center to remove any slack. Use the clips to secure the fabric and stabilizer.



7. Remove the cylinder frame from the mounting jig. Press down on the two holders on the cylinder mounting jig with both thumbs, and then pull off the cylinder frame in the direction shown.



8. Attach the cylinder frame to the embroidery machine and snap in place. Position the embroidery surface so that it faces upward. Align the ring of the cylinder frame driver with the ring of the cylinder frame. Align the notch in the cylinder frame with the guiding plate on the cylinder frame driver. Push in the cylinder frame. The cylinder frame is secured with the three holders.

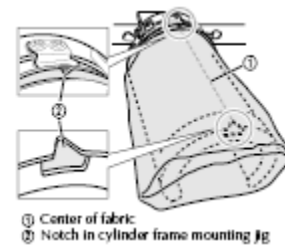


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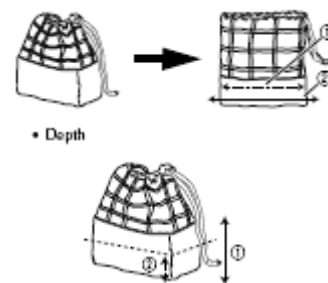
To remove the cylinder frame.

1. To remove the cylinder frame, press down on the two holders at the base of the cylinder frame with both thumbs, and then pull off the cylinder frame.

Note: Be careful that the cylinder frame doesn't hit any nearby parts such as the presser foot or the gap in the mounting plate.



2. Remove the clips, and then pull the fabric towards you.



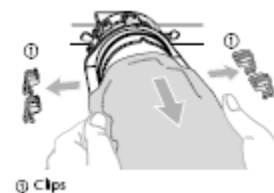
Diameter and depth of items that can be embroidered on the cylinder frame.

Note: The diameter refers to the width of the item and the depth refers to the height of the item.

The sewing field of the cylinder frame is: 3.14" high by 3.54" wide.

Bags (purses or cases)

Diameter: Must have a width of 6" or more when folded



Depth: Must have a height of 2.75" or more from the bottom.

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Note: The embroidery position differs depending on the width of the bag.

- With a width of 6" or less: The embroidery can be sewn at a height of 2.75" from the bottom.
- With a width of 6" or more: The height of the embroidery position depends on the width of the bag.

Stretch material such as golf club covers

Item must have a width of 6" or more when folded.

Only the bottom portion may be embroidered.



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Cylindrical items

1. 6" or more in width
2. .89" from the bottom (hem)
3. 6.75" or more



Fabrics:

The following types of fabrics are recommended for embroidering.

- 100% cotton
- 35% cotton/65% polyester
- 80% wool/20% nylon
- 15% wool/85% acrylic

Fabric that is difficult to hoop in the cylinder frame or fabric that easily wrinkles or shrinks or whose pattern is easily misaligned should not be embroidered using the cylinder frame.

- Polyester foam
- Stretch fabrics
- Melton wool
- 100% nylon
- Suede

Note: Only one-point embroidery patterns, such as letters, can be sewn on stretch fabrics (such as golf club covers and legwarmers). When embroidering golf club covers, check that the fabric is elastic and is a size that fits in the cylinder frame.



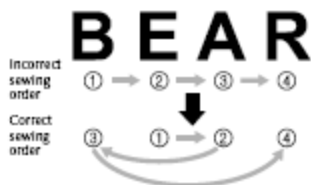
Only this area can be embroidered.

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Digitizing information:

In order to prevent pattern misalignment, observe the following tips when creating embroidery patterns for the cylinder frame.

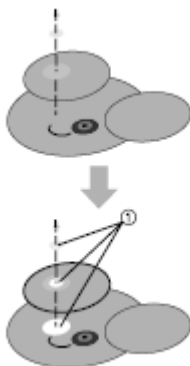
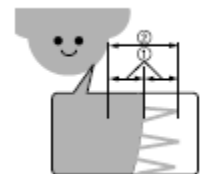
1. Create underlay stitches.



2. Specify the sewing order and sewing direction to start at the center of the pattern and sew towards the left and right. Do not sew from one side to the other, otherwise wrinkling may occur.

On the PR-600/620 the order in which the patterns are selected when they are combined is the order that they will sew.

3. When sewing outlines on patterns, make sure that the stitch width of the satin stitching is at least 3 mm, and that the stitching overlaps the fabric by at least 1.5 mm.



4. Do not sew more than 4 overlapping layers.