SERVICE PROCEDURE

PCS Replacing Arbor & Motor Belts

Applicable Model(s)

Professional Cabinet Saw (PCS175 & PCS31230).

Tools Needed

- 19mm combo or socket wrench
- 5mm hex wrench
- Soft blow hammer
- Block of wood

Part(s) or Service Kit(s) Needed

- Arbor Belt
- PCS Motor Belt

Related Links

- SawStop Service Video – PCS Belt Replacement

PROCEDURE SUMMARY

This procedure instructs how to replace the belts for the motor and arbor block. Replacement of the belts might be indicated if the belts make a noise on startup or if the saw lacks power when cutting material.

SawStop typically recommends replacing both belts after 2 to 4 years of use.

SAFETY

WARNING: Disconnect the plug from the power source from the tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

WARNING: Wear gloves when handling the saw blade.

WARNING: When servicing your tool, use only replacement parts from SawStop.

WARNING: Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

SERVICE PROCEDURE

WARNING: Read and understand the instruction manual and all safety warnings that came with your tool before attempting to maintain or operate the tool. Failure to follow instructions or heed warnings may result in electric shock, fire, serious personal injury or property damage. Save these instructions and refer to them whenever necessary.

REMOVING THE MOTOR AND ARBOR BELTS

1. Remove the blade, arbor nut and arbor washer using the arbor wrenches.
2. Loosen both hex bolts on the motor with the 19mm wrench. The nuts on the back are welded so there is no need to hold them. (Image 1)

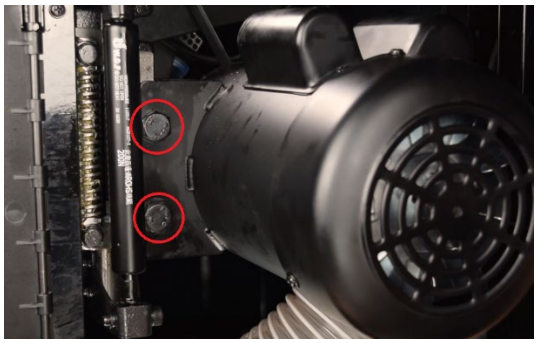

Image 1

3. With both hands, slide the motor upwards to maximum height, then tighten the upper bolt to hold the motor in place.
4. Raise the elevation to its maximum height to relieve tension to the motor belt.
5. Place a block of wood on the arbor shaft and firmly strike it with a soft blow hammer, this will unlock the arbor block and relieve tension to the arbor belt.
6. Turn the elevation wheel counterclockwise 4 or 5 full rotations. Lowering it any more than this will create too much tension on the belt.
7. Working through the motor door, use the 5mm hex wrench to remove the hex cap screw and washer that holds the shaft for the double pulley. (Image 2)

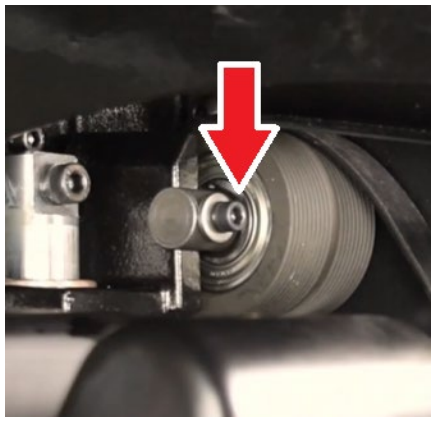

Image 2

8. Remove the double pulley. Make note of how the belts are oriented on the double pulley.

INSTALLING THE ARBOR BELT

9. Wrap the new motor belt around the double pulley, making sure it is on the side that is further from the motor. (Image 3)
10. Wrap the new arbor belt around the double pulley, making sure it is on the side that is closest to the motor. (Image 3)

Image 3

11. Finger-tighten the 5mm hex screw just enough so that the shaft is perpendicular to the elevation bracket. Do not fully tighten.
12. Tap the end of the shaft a few times with a block of wood using a mallet to fully seat the shaft into the mounting hole of the cartridge bracket.
13. Fully tighten the hex cap screw and washer back into the double pulley assembly with the 5mm hex wrench.
14. Use the elevation handwheel to lower the arbor all the way down to reset the arbor block back into the retraction bracket and properly set the tension of the arbor block.

INSTALLING THE MOTOR BELT

15. Use the 19mm socket wrench to loosen the bolt at the top of the motor bracket that was tightened in Step 3 of Removing the Motor and Arbor Belts section .
16. Lower the assembly to create room for the wooden block to fit between the motor bracket and the upper torque tube, then raise the elevation so that the assembly puts tension on the belt. (Image 4)

Image 4

17. Lightly press the middle of the motor belt to check tension. The belt should deflect less than ¼". Plucking both belts should yield the same time.
18. Once the tension of the motor belt is set correctly, tighten both motor bolts.
19. Remove the wooden block.

Final Adjustments

20. Reinstall the blade and arbor nut and ensure proper blade to brake spacing.
21. Restore power to the saw and initialize by turning the switchbox to the on position.
22. Pull out on the switchbox paddle to start the saw.
23. Listen for any squealing sound from the belts on startup. If any squealing occurs on startup with the replacement belt, contact SawStop Technical Service for further troubleshooting.