



SERVICE PROCEDURE

Steps to Replace Industrial Series Motor (CB,ICS)

Applicable Model(s)

Industrial Cabinet Saw (ICS,CB)

Tools Needed

- 19mm combination or socket wrench x2
- #2 Phillips screwdriver
- SawStop blade wrench or short pry bar

Part(s) or Service Kit(s) Needed

- [Replacement Motors purchased online through SawStop Parts Store](#)

Related Links

- [Industrial Cabinet Saw Owner's Manual for Industrial Cabinet Saws \(ICS\)](#)
- [Replace Belts for the Industrial Cabinet Saw](#)

PROCEDURE SUMMARY

This procedure shows how to install a replacement motor for Industrial SawStop saws.

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.

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.

SERVICE PROCEDURE

Motor Disassembly

1. Open the belt access door on the left side of the saw cabinet and break the motor bolt loose just barely using a 19mm combination wrench. This will release enough slack to remove motor belt from motor pulley and double pulley. (Image 1)



Image 1

2. Raise the motor to maximum height using the elevation crank handle.
3. Move tilt to a full 45° using the tilt crank handle which will expose the electrical junction box for easy access.
4. Remove the junction cover using a #2 Phillips screwdriver to remove the screw. (Image2)
5. Remove both Wire Nuts from motor power cable wire leads and then break both motor cable couplings loose. Pull motor cable out from motor junction hole. (Image 3)



Image 2

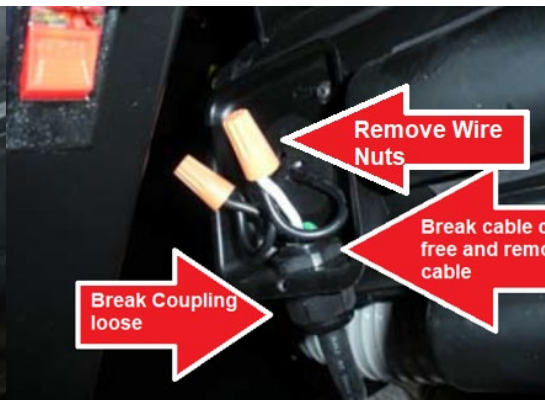


Image 3

6. After the motor cable has been removed, use the tilt crank wheel handle to return the tilt back to 0°.
7. Working through the motor cover door, place wooden blocks or box in the bottom of the cabinet for supporting the weight of the motor 65-85lbs then lower the motor onto them.

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8. Loosen and remove the two bolts holding the motor to the bracket. The adjustment bolt has a shoulder that fits into the curved slot to prevent it from turning while loosen or tighten the nut to allow adjustment of belt tension. (Image 4 & 5)



Image 4



Image 5

9. Raise the elevation mechanism so the motor bracket will clear the motor mounting flanges.
10. Pull the motor out sideways and set it aside.
11. Slide replacement motor into the cabinet, positioning it so that the elevation mechanism can pick up the bolt holes.
12. Reversing the bolts so that the nuts come out on the belt access side of the assembly; this will make the belt tension adjustment easier. Tighten the nuts snug and then loosen a quarter turn to allow movement to adjust the belt tension. (Image 6)



Image 6

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REINSTALLATION MOTOR POWER CABLE AND MOTOR BELTS

13. Reverse steps 1-4 of the procedure connecting motor power cable through rear junction and install motor belt back onto motor and double pulleys.



Image 4



Image 5

FINAL ADJUSTMENT

14. Insert a pry bar (one of the blade wrenches works well for this) between the motor body and the bracket on the elevation mechanism, on the left side of the motor. (Image 6)
15. Push down on the pry bar to increase belt tension. Tighten the nut on the adjustment slot. The belt is properly tensioned if squeezing both sides between thumb and fore fingers produces no more than ½" belt deflection, and when plucked, the belt produces a note instead of a "thud" noise. (Image 7 & 8)
16. When satisfied with belt tension, tighten both nuts and remove wrench/pry bar from the motor bracket.



Image 6



Image 7



Image 8