PCS31230-EU

PROFESSIONAL CABINET SAW
OWNER'S MANUAL

85-007951-00
Rev B - 11102025



www.SawStop.eu/PCSsupport

EN - Additional translations of this manual are available from the above URL.
IT - Ulteriori traduzioni di questo manuale sono disponibili all'URL sopra indicato.
NL - Bijkomende vertalingen van deze handleiding zijn beschikbaar via de bovenstaande URL.
SV - Ytterligare översättningar av denna bruksanvisning är tillgängliga via ovanstående URL.
FI - Oppaan muita käännöksiä on saatavilla yllä olevasta URL-osoitteesta.
DA - Der kan findes yderligere oversættelser af denne vejledning på ovennævnte webadresse.
NB - Ytterligere oversettelser av denne håndboken er tilgjengelige på ovenstående internettadresse.
PT - Traduções adicionais deste manual estão disponíveis no URL acima.
CS - Další překlady tohoto návodu jsou k dispozici na výše uvedené adrese URL.
PL - Dodatkowe tłumaczenia tej instrukcji dostępne są pod powyższym adresem WWW.

Original Instructions - Professional Cabinet Saw

Updates to this manual and additional related documentation such as exploded views and parts lists are available at SawStop.eu or SawStop.uk

The saw pictured on the manual cover is shown with the optional Floating Dust Collection Guard. Your chosen configuration may look different.

DECLARATION OF CONFORMITY

EUROPE

We declare under our sole responsibility that this product: **Professional Cabinet Saw**

Model: PCS31230-EU

A stationary table saw, complies with all the relevant requirements in the following EU Directives:

- 2006/42/EC–Machinery Directive
- 2014/30/EU–Electromagnetic Compatibility
- 2015/863/EU–RoHS 3

Standards or normative documents:

Health and Safety	EN ISO 19085-1:2021 EN ISO 19085-9:2024
EMC	EN 55014-1:2017/A11:2020 EN 55014-2:1997/A2:2008
Environmental	EN 63000:2018
Number of the notified body: 0197	

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Tualatin, Oregon, USA Date of Declaration: August 27, 2025

UNITED KINGDOM

We declare under our sole responsibility that this product: **Professional Cabinet Saw**

Model: PCS31230-EU

A stationary table saw, complies with all the relevant requirements in the following EU Directives:

- The Supply of Machinery (Safety) Regulations 2008
- Electromagnetic Compatibility (EMC) Regulations 2016
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Standards or normative documents:

Health and Safety	BS EN ISO 19085-1:2021 BS EN ISO 19085-9:2024
EMC	BS EN 55014-1:2017/A11:2020 BS EN 55014-2:1997/A2:2008
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SYMBOLS

The following symbols, acronyms and abbreviations may also be found on the exterior of your tool or in this manual.

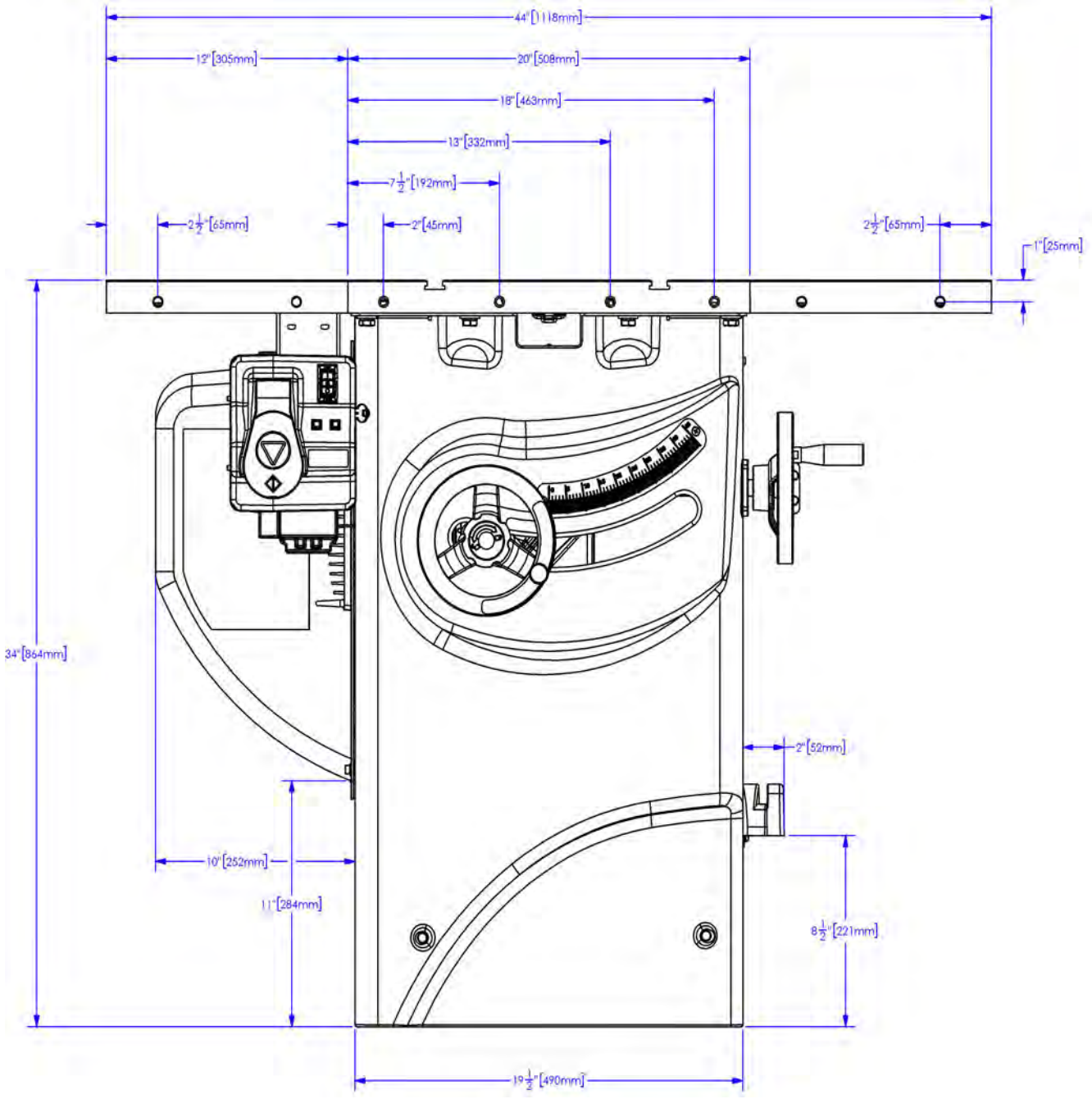
SYMBOL	DEFINITION	SYMBOL	DEFINITION
	Electric shock hazard		Warning of general caution or danger
	Protective earth ground	"	Inch
V	Volts	lb	Pound
W	Watts	kg	Kilogram
Hz ~	Hertz (cycles per second)	°	Angular degree
N_0 /min	Revolutions Per Minute	mm	Millimeter
m3/hr	Cubic Meters per hour	cm	Centimeter
	Read warnings and instructions		Keep all guards and covers in place
	Use hearing protection		Use eye protection
	Use a dust mask		Do not dispose with household waste
	Hand crush/pinch hazard		Hand crush/pinch hazard
	Foot crush hazard		Lift here for transport
	Remove riving knife		Use appropriate guard for groove cuts

SPECIFICATION AND REQUIREMENTS

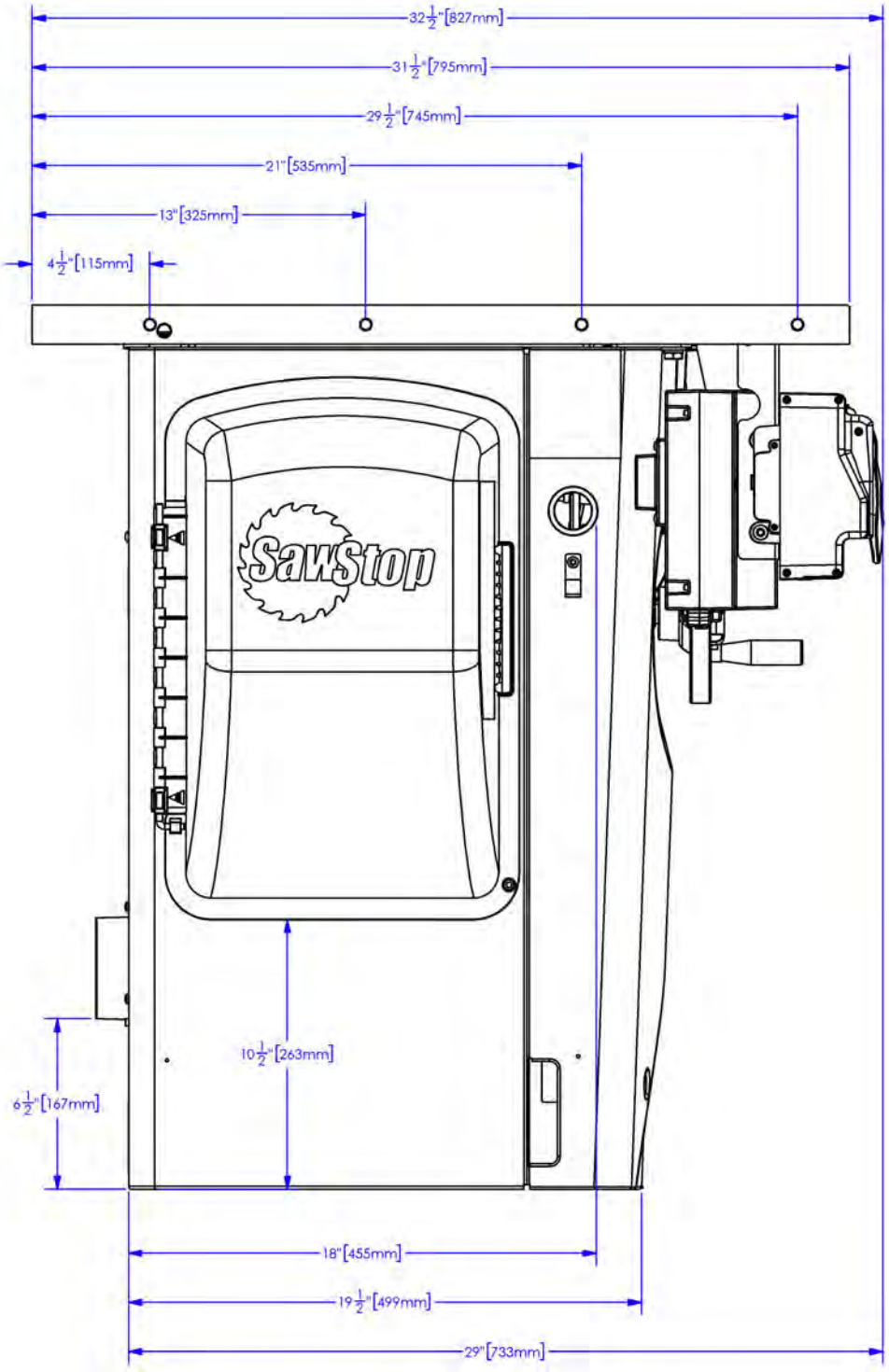
GENERAL SPECIFICATIONS

Overall saw dimensions - Table saw only	20" w x 32 1/2" d x 34" h (508mm x 827mm x 864mm)
Dimensions with 36" T-Glide fence rails	67 3/4" w x 32 1/2" d x 34" h (1720mm x 827mm x 864mm)
Dimensions with 52" T-Glide fence rails	84" w x 32 1/2" d x 34" h (2136mm x 827mm x 864mm)
Cabinet footprint	19 1/2" w x 19 1/2" d (495mm x 495mm)
Cast iron table	32 1/2" d x 44" w (827mm d x 1118mm w) w/ extension wings
Extension wing	32 1/2" d x 12" w (827mm d x 305mm w) [qty 2]
Extension Table (optional)	32 1/2" d x 23 3/4" w (827mm d x 602mm w) [36" rails] 32 1/2" d x 40" w (827mm d x 1018mm w) [52" rails]
Outfeed table	25" w x 16.2" d (635mm w x 410mm d)
Weights (approximate)	357 lb (162kg) - Table saw with extension wings only 427 lb (194kg) - w/ T-Glide Series Fence System, 36" rail kit 451 lb (204kg) - w/ T-Glide Series Fence System, 52" rail kit 43 lb (19kg) - Single cast iron extension wing
Shipping weight (approximate)	474lb (215kg) - Boxed table saw
Included blade	10" (254mm) 40-tooth, professional grade, 30mm arbor
Blade tilt	Left
Max. depth of cut, blade at 0°	3 1/8" (79mm)
Max. depth of cut, blade at 45°	2 1/4" (57mm)
Max. rip, right of blade	36" (914mm) w/ optional 36" fence rails 52" (1321mm) w/ optional 52" fence rails
Max. rip, left of blade	12" (304mm) w/ optional 36" or 52" rails
Blade Guard Options	Spreader mounted blade guard included with Over-Arm Dust Collector Floating guard included with Floating Dust Collector
Main bearing size	62mm OD x 30mm ID
Second bearing size	52mm OD x 25mm ID
Table in front of blade (max. elevation)	10 1/4" (260mm)
Table behind blade (max. elevation)	7 1/2" (190.5mm)
Arbor runout	0.001" (0.025mm) Maximum allowable runout
Table flatness measured diagonally	0.010" (0.25mm) Maximum gap
Overall table and extension wing flatness	0.025" (0.6mm) Maximum gap
Blade alignment with miter slot	0.010" (0.25mm) Maximum displacement
Deviation of miter gauge indexing stops from actual angle	±0.25°
Alignment between spreader and blade	0.010" (0.25mm) Maximum difference
Miter slots	T-shaped, 3/4" at top, 1" at bottom, 3/8" deep
Ambient temperature operating range	0-40° C and RH range of 20-95%
Altitude operating range	0-1000m
Storage conditions	-20-50° C 95% RH non-condensing

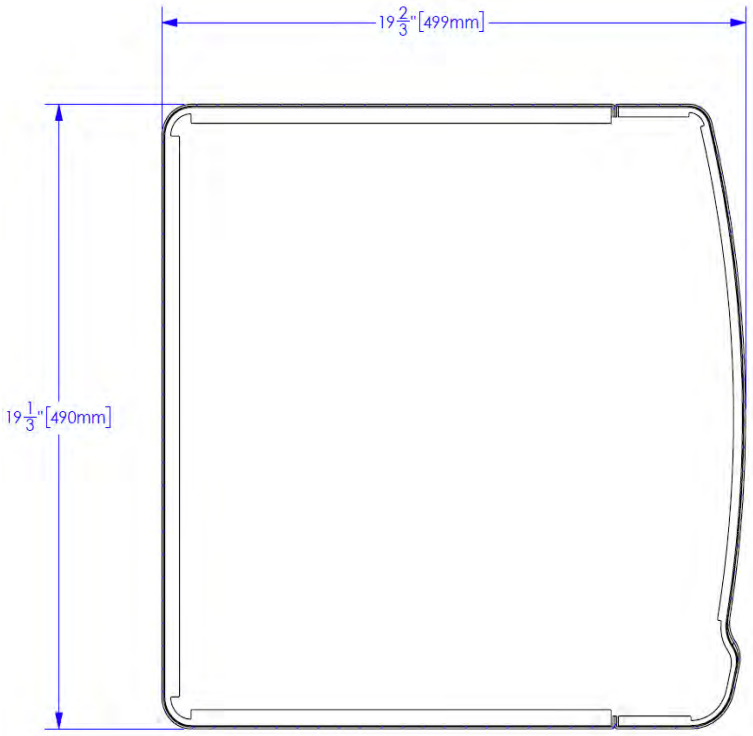
PROFESSIONAL CABINET SAW DIMENSIONS



Front


32½"[827mm]
31½"[795mm]
29½"[745mm]
21"[535mm]
13"[325mm]
4½"[115mm]
SawStop
10½"[263mm]
6½"[167mm]
18"[455mm]
19½"[499mm]
29"[733mm]

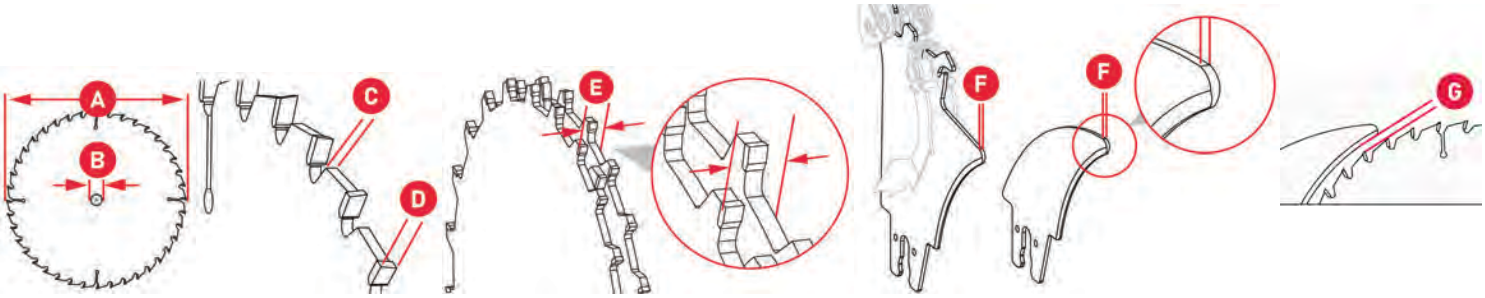
Left Side



Footprint

BLADE REQUIREMENTS

Diameter (A)	10" (250mm, 254mm),
Bore (arbor) diameter (B)	30mm Using arbor washer with shoulder. 5/8" (16mm) Using arbor washer without shoulder.
Blade plate thickness (C)	0.071" = 0.083" (1.8mm - 2.1mm) as marked on Riving Knife
Blade kerf (D)	0.093" = 0.138" (2.35mm - 3.5mm) as marked on Riving Knife
Dado diameter	8" (203mm) Requires separate Brake Cartridge and table insert.
Dado bore (arbor) diameter (B)	5/8" (16mm)
Dado blade thickness (E)	.79" (20mm) maximum
Speed	N_o: 4000/min
Riving Knife* or spreader thickness (F)	0.090" (2.3mm)
Blade and Riving Knife* or spreader gap (G)	0.175"-0.31" (4-8mm)



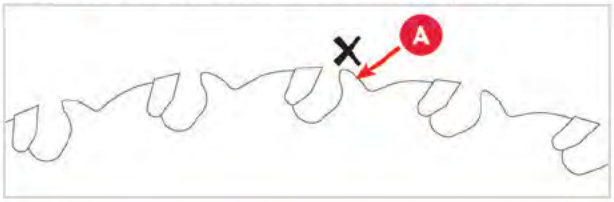
NOTE:

* The riving knife is an optional accessory available for purchase through the online SawStop parts store. If you purchased your saw configured with the Floating Dust Collection Guard (TSG-FDC), a 10" / 254mm blade compatible riving knife is provided.

More about blades:

- Use only saw blades recommended by the manufacturer (see specification on the previous page) that meet EN 847-1.
- Use only blades that conform to the diameter, body thickness and kerf thickness specifications marked on the riving knife included with your saw.
- Use only saw blades that are marked with a speed equal or higher than the speed marked on the tool.
- Use a blade type appropriate for the material being cut.

This illustration shows a blade as equipped with shoulders (A). Do not use blades with shoulders. The shoulders could prevent the brake pawl from effectively engaging the blade in the event of an activation of the safety system.



WARNING:

Do not use undersized blades. Blades smaller than 250mm could increase the chance of a more severe injury in the event of a safety system activation.

NOTE:

Both the riving knife and the spreader are 0.090" (2.3mm) thick. Do NOT use a blade with a kerf less than 0.093" - 0.138" (2.3mm - 3.5mm) with this tool. When the blade and riving knife or spreader are installed in the saw, there should be a gap of 4-8mm between the blade and the riving knife or spreader.

IMPORTANT:

Avoid overheating the tips of the saw blade teeth by keeping the blade clean and sharp. Ensure the dust collection system is clean and free of debris. When cutting plastic, make sure material feed rate does not cause the plastic to heat up or melt.

WARNING:

To avoid risk of injury, wear gloves when handling saw blades. Never wear gloves when operating the saw.

The saw can be used to cut wood, plastic, pliable metal (e.g., aluminum), or other similar materials. Do not use the saw to cut ferrous metals. Conductive materials must be cut using Bypass Mode (see **START THE SAW - BYPASS MODE** on page 45).

NOISE EMISSIONS LEVELS

Declared dual-number noise emission values in accordance with ISO 4871:1996:

A-weighted sound power level	L_{WA} = 98.5 dB
Uncertainty	K_{WA} = 4 dB
A-weighted emission sound pressure level	L_{pA} = 92.2dB
Uncertainty	K_{pA} = 4 dB

Measurement made in accordance with ISO 19085-9:2024, Annex F, using:

- For sound power: ISO 3746:2010 with accuracy grade 3
- For emission sound pressure: ISO 11204:2010 with accuracy grade 3

Operating Conditions During Measurements

Machine Set-up

- Cutting width: 30mm
- Saw blade projection above table: 40mm
- Spindle speed: 4100 r/min
- Work-piece feed rate 6 to 8m/min

Tool

- Saw blade: 254mm

Workpiece

- Material: Particle board
- Board thickness: 19mm
- Board length: 600mm
- Board width: 600mm, processed down to a final width of not less than 150mm

If the declared emission values are to be verified, measurements shall be made using the same method and the same operating and mounting conditions as those declared.

WARNING:

Noise generated when working. Risk of damage to hearing. Use hearing protection.

WARNING: The noise emission values given are only valid if the same operating and mounting conditions are applied. Other operating and mounting conditions, e.g. a different work process, can lead to higher noise emission with the risk of underestimation.

The noise emission values given are not exposure levels. While there is a correlation between the emission and exposure levels, noise emission values cannot be used to reliably determine whether or not further precautions are required. Factors that influence the actual level of exposure include the actual work process, characteristics of the work room and other adjacent sources of noise in operation

ELECTRICAL CONNECTION

This saw is designed to operate on input voltages within +/- 10% of the voltage specified on the product specification label.

WARNING:

SawStop tools must be connected to a grounded wiring system. Failure to connect the saw to an adequate ground may prevent the safety system from detecting human contact and could result in a serious injury. Do not power this saw by a generator or battery inverter that is not itself grounded. Note that when using anything other than a public power source, performance of the saw cannot be guaranteed due to the variable quality and consistency of electrical power from alternative power sources.

IMPORTANT:

See the included **Safety and General Use Instructions for Table Saws** manual for additional general specifications and important safety warnings.

ASSEMBLING YOUR SAW

To assemble your SawStop Professional Cabinet Saw, perform the procedures in sequence listed in this chapter.

UNPACKING YOUR SAW

Remove all packing materials and accessories before removing the saw from the shipping pallet. While unpacking your saw verify that the components shown on this page are included. Use care when unpacking your saw to prevent damage to any of the saw components or accessories. If the saw or the accessories have been damaged during shipping, report the damage to your shipper before proceeding with unpacking. Read and understand this manual fully before assembling and operating your saw.

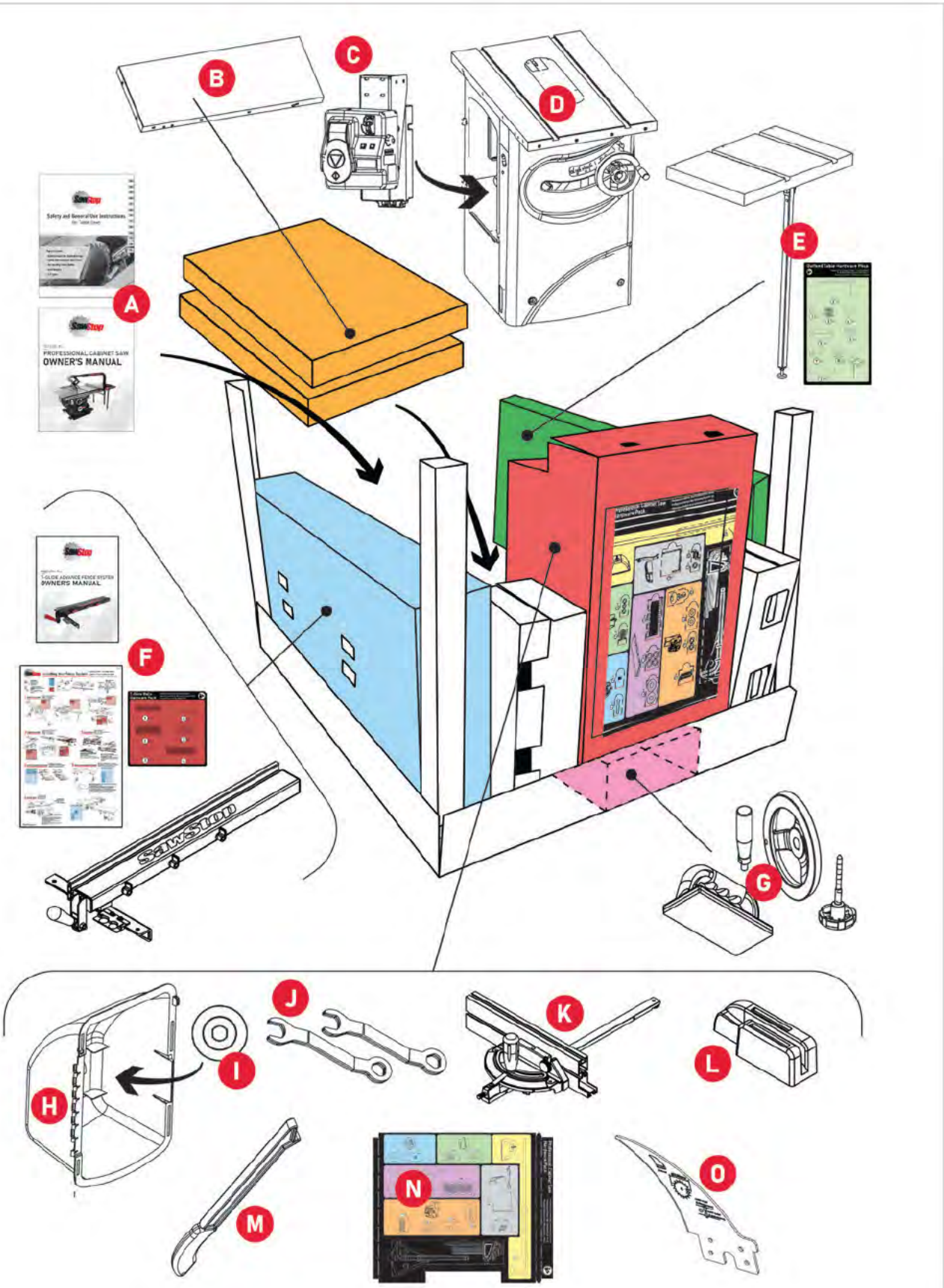
In the crate...

A. Professional Cabinet Saw Manuals (2)
B. Extension wings (2) (under saw cabinet)
C. Switch box assembly (inside saw cabinet)
D. Table saw - Pre-installed items include:
   - 10" (254mm) 40-tooth, professional grade, 30mm arbor
   - 10" (254mm) riving knife
   - Blade adapter washer for 30mm bore
   - Zero-clearance table insert
   - Brake cartridge
E. Outfeed table kit, Hardware Pack
F. T-Glide Advance rip fence, installation poster, hardware pack, manual
G. Elevation handwheel, Push block (magnetic)
H. Motor cover
I. 5/8" (16mm) bore blade washer
J. Blade wrenches (2)
K. Miter gauge with crosscut fence
L. Accessory holder
M. Push stick
N. Hardware pack
O. 250mm Riving Knife

STANDING UP YOUR SAW

To avoid damaging your saw and ensure careful safety practices are observed, please refer to the poster found in the top of the shipping crate. It contains instructions for unboxing and standing up your saw.

WARNING:
The saw weighs approximately 271 pounds (123KG) without the extension wings and 357 pounds (162KG) pounds with the extension wings. Be careful in handling the saw to avoid injury. Get help from a second person when necessary.


A
B
C
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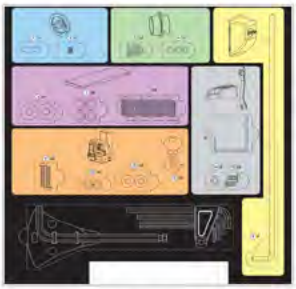
PROFESSIONAL CABINET SAW
OWNER'S MANUAL
T-GLIDE ADVANCE FENCE SYSTEM
OWNERS MANUAL
SawStop

ASSEMBLY PREPARATION



The instructions to assemble your Professional Cabinet Saw are described below. In addition to the tools included with the Table Saw Hardware Pack (shown at left), you will also need the following tools to complete the assembly:

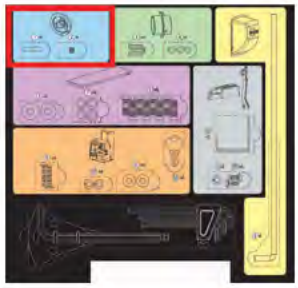
- #2 Phillips screwdriver
- 13mm wrench
- 14mm wrench
- Level or straight edge

Once the saw is in the upright position, remove the plastic covering from the cast iron table top and remove the yellow label from the top of the table insert. The table top and extension wings are shipped with a coating of oil to prevent the cast iron from rusting. Wipe the oil off the table top with a soft, clean cloth. Do the same for the extension wings (located in the bottom of the crate).

NOTE:

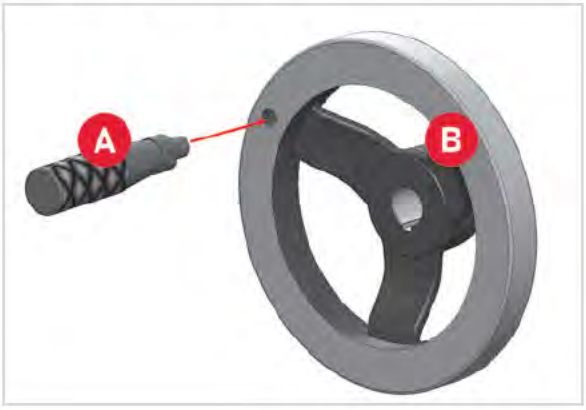
Before assembling the saw, make sure that all packaging has been removed and all parts unpacked. In particular, DO NOT PROCEED with the assembly of the saw until the Switch Box has been moved to the outside of the cabinet. When unpacking the Switch Box assembly, be careful not to damage the power cord or the cords attached to the Switch Box when cutting the cable ties. Be sure to remove all cardboard pieces from the inside of the cabinet.

1. INSTALLING THE TILT HANDWHEEL

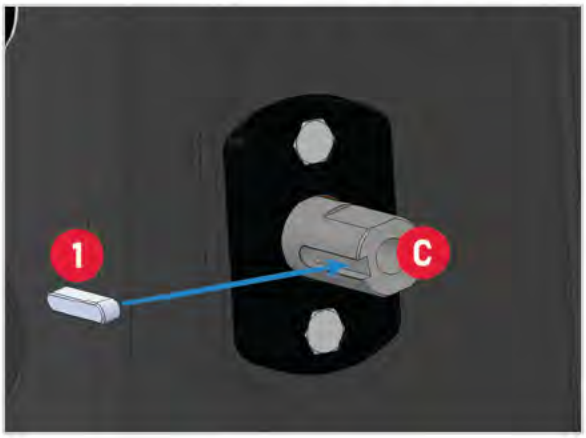


The hardware required to install the tilt adjustment handwheel is located in the area with the blue background on the Table Saw Hardware Pack.

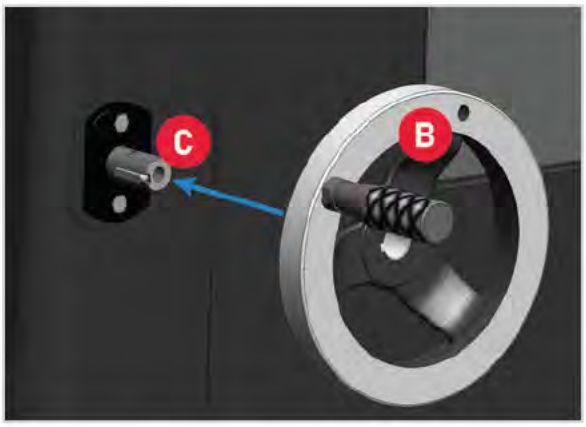
1. Open the handwheel package and screw the handle (A) into the handwheel (B). Tighten the handle with a 14mm wrench.



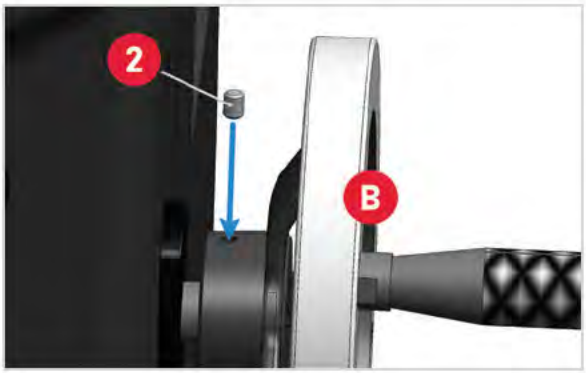
2. Remove a key (1) from the Table Saw Hardware Pack and insert it into the slot at the end of the tilt-angle control shaft (C) on the side of the saw.



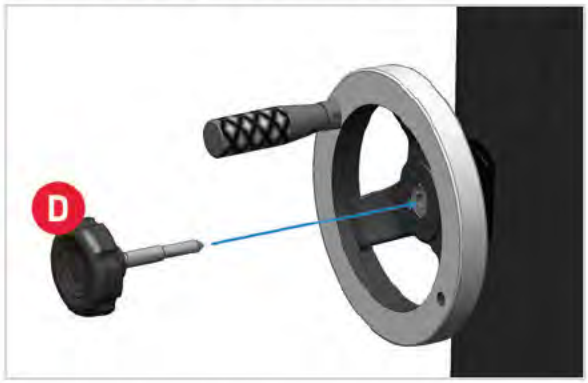
3. Slide the handwheel (B) onto the end of the shaft (C) until the face of the handwheel is flush with the end of the shaft.



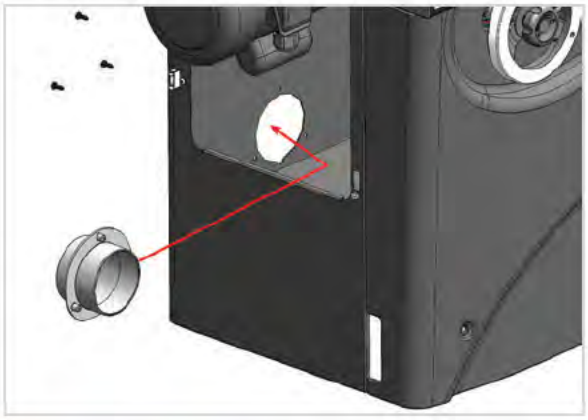
4. Remove a set screw (2) from the Table Saw Hardware Pack and insert it into the small hole located on the side of the handwheel (B). Use the included 3mm hex wrench to fully tighten the set screw.

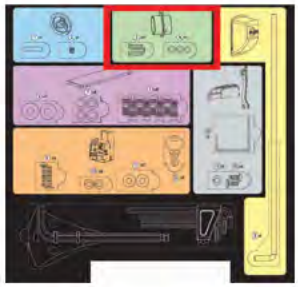


5. Locate the lock knob with the shorter shaft. Screw the lock knob (D) into the end of the control shaft, but don't tighten it completely. The lock knob is used to prevent the handwheel from turning after an adjustment to the handwheel has been set.



2. INSTALLING THE DUST PORT

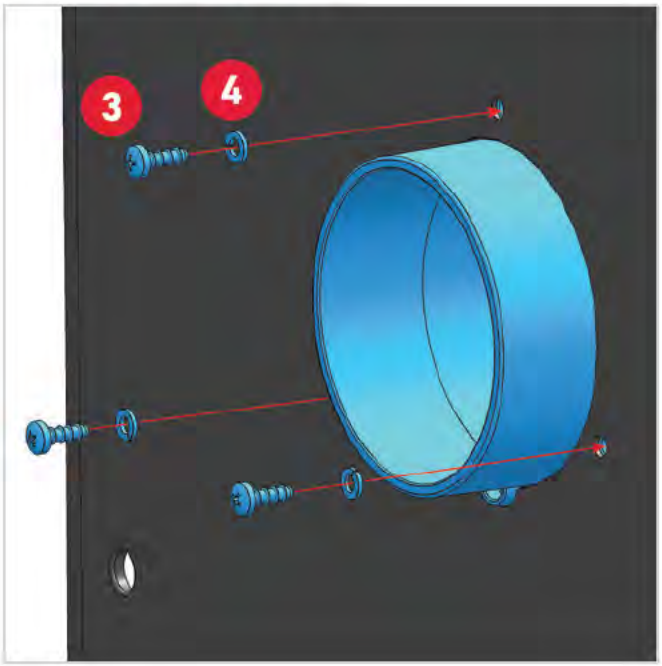




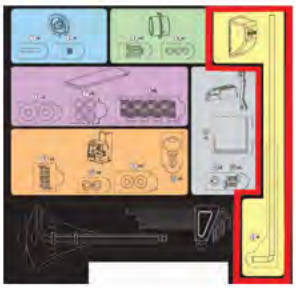
The hardware required to install the Dust Port is located in the area with the green background on the Table Saw Hardware Pack.

The Dust Port comes attached to the end of a flexible hose residing within the cabinet. The Dust Port must be inserted into the four inch diameter hole at the back of the cabinet from the inside of the cabinet as shown in the illustration above. Note that the Dust Port is keyed such that there is only one orientation where it fits correctly and flush to the cabinet. Be mindful of this as you move the Dust Port into place.

1. Remove the three Dust Port screws (3) and lock washers (4) from the Table Saw Hardware Pack and place one lock washer on each screw. Keep the screws nearby.
2. While holding the Dust Port in your hand, reach inside the cabinet through the opening on the side of the cabinet through which the motor protrudes. Fit the Dust Port in the hole so that the semicircle at the bottom of the opening in the cabinet aligns with the same shaped semicircle on the flange. When correctly installed, the flange of the Dust Port is flush to the cabinet and the three holes in the cabinet surrounding the Dust Port will line up with the three bosses in the Dust Port.
3. While holding the Dust Port firmly in place on the inside of the cabinet, insert each of the three screws (3) with washers (4) into the holes surrounding the Dust Port on the outside of the cabinet, as shown. Using a Phillips screwdriver, tighten each screw a little at a time until all three screws are securely in place.

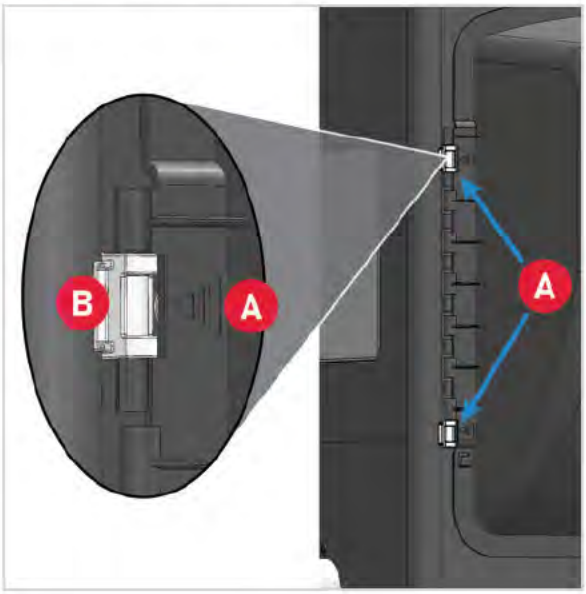


3. INSTALLING THE MOTOR COVER



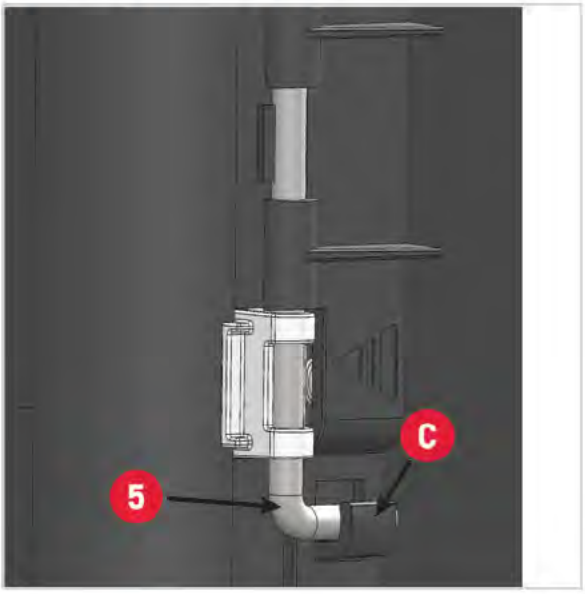
The hardware required to install the Motor Cover is located in the area with the yellow background on the Table Saw Hardware Pack.

1. Hold the Motor Cover against the side of the saw over the motor such that the two arrows (A) on the side of the cover point to the two metal tubes (B) on the side of the cabinet.

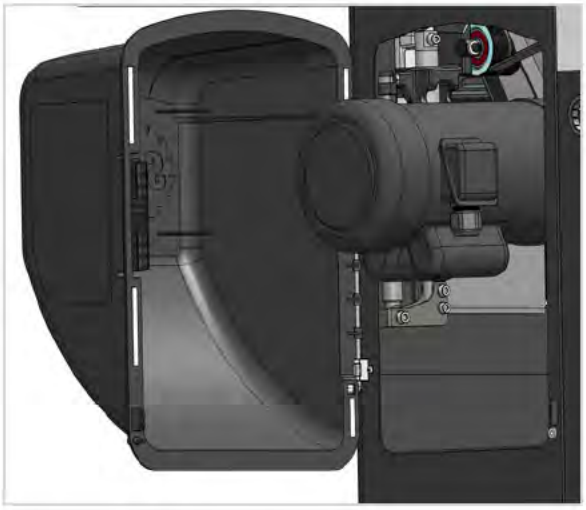


2. Slip the straight end of the motor cover rod (5) up through the bottom tube then through the row of half-cylinders along the edge of the Motor Cover and finally through the upper tube.

3. Rotate the motor cover rod so that the bent end of the rod fits into the hook (C) on the Motor Cover just below the bottom metal tube.

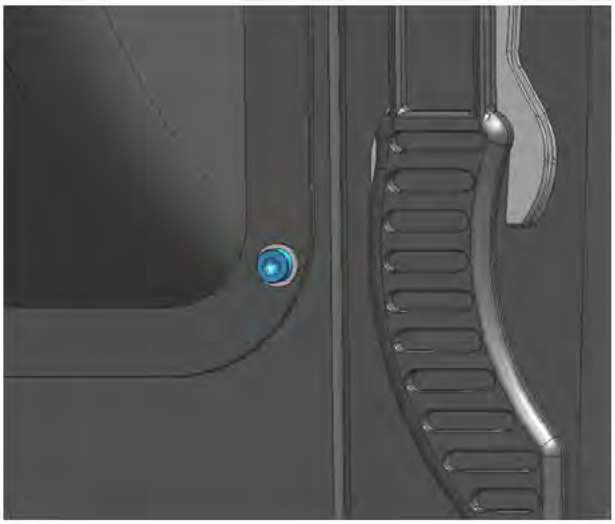


4. To open the Motor Cover, press on the ribbed section on the front of the Motor Cover until it unlatches and swing the cover away from the cabinet. Reverse the process to close the cover.

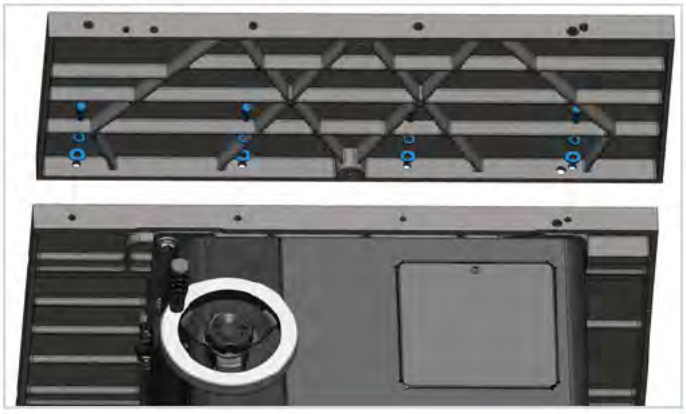


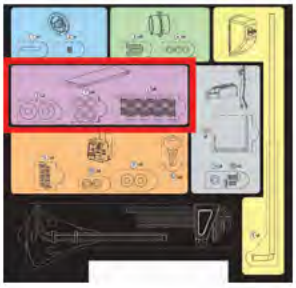
IMPORTANT:

After accessing the motor, firmly close the door then secure it by tightening the socket head screw near the lower-right corner of the door. A 4mm hex wrench is required.



4. MOUNTING THE EXTENSION WINGS

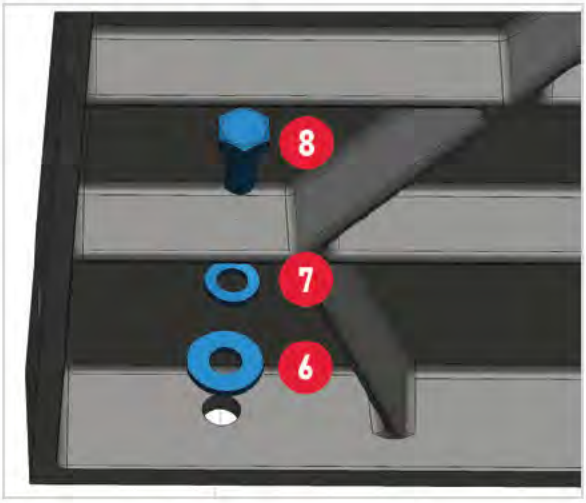




The hardware required to mount the cast iron extension wings to the cast iron table top is located in the area with the purple background on the Table Saw Hardware Pack.

Be mindful of possible sharp endges when handling the extension wings.

1. Position one of the extension wings next to the left side of the cast iron table with the chamfer toward the front and align the holes in the side of the wing with the four threaded holes on the side of the table.
2. Mount the left extension wing with four M8 washers (6), four M8 lock washers (7) and four M8 x 20 hex bolts (8), but do not tighten. Repeat the same procedure to mount the other extension wing to the right side of the table.



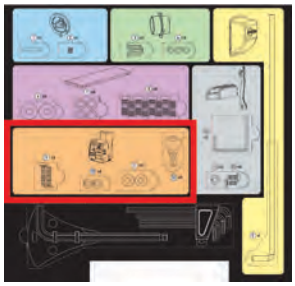
IMPORTANT:

After installing the fence rails (see below), follow the procedure in the manual included with your fence system for leveling the extension wings with the main, cast iron saw table. Remember that when instructed to secure the wings, begin by aligning and tightening the center first, then move to aligning the front and rear of the wing.

5. INSTALLING THE FENCE RAILS

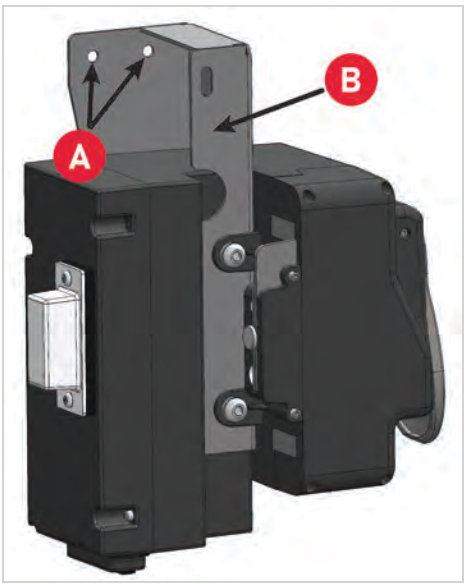
The fence system included with your saw is boxed separately and includes a separate installation manual. Please refer to that manual now and complete the installation of the fence rails and Extension Table before proceeding to the next section of this manual.

6. MOUNTING THE SWITCH BOX

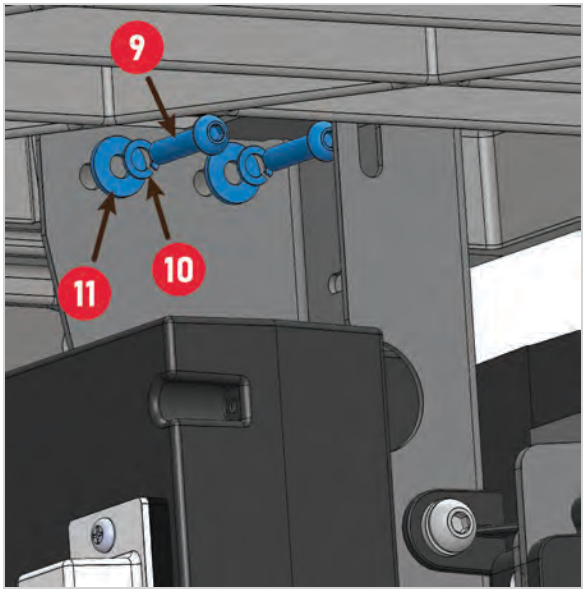


The hardware required to mount the Switch Box is located in the area with the orange background on the Table Saw Hardware Pack.

1. Remove two M6 x 20 button head socket screws (9), two M6 lock washers (10) and two M6 washers (11) from the Table Saw Hardware Pack. Place a lock washer followed by a washer on the end of each screw.
2. Mount the Switch Box under the left extension wing by inserting the screws with washers you assembled in step 1 into the two holes (A) at the upper end of the Switch Box mounting bracket (B).

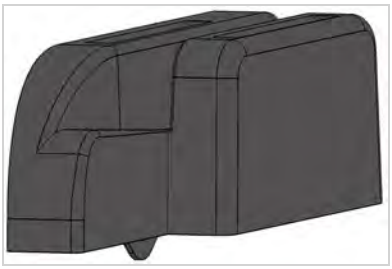


3. Thread the screws into the holes towards the front of the left extension wing shown in the illustration below.



Tighten the screws with a 4mm hex wrench.

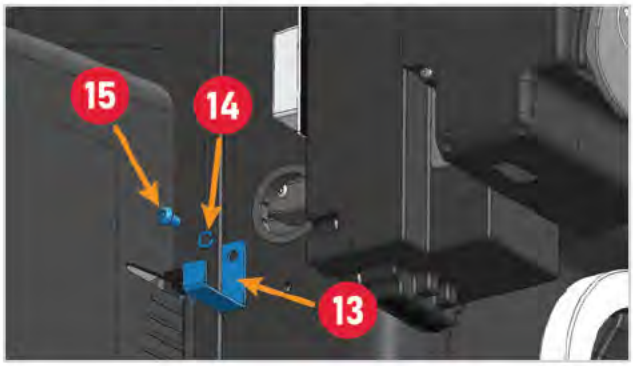
7. MOUNTING THE ACCESSORY HOLDERS



Your saw comes with two tool holders to store saw accessories. The blade wrench and push stick hook provides a place to hang the wrenches that came with your saw. The accessory tool holder (shown above) provides a place to store your Riving Knife, miter gauge, and blade guard.

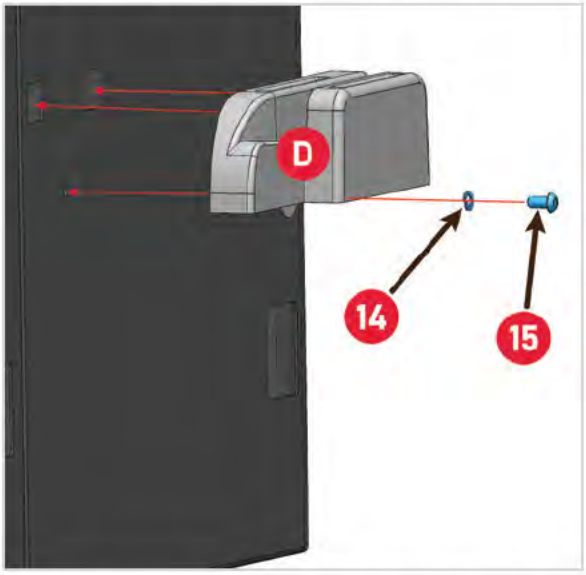
The hardware required to mount the two accessory holders is located in the area with the gray background on the Table Saw Hardware Pack.

1. To mount the blade wrench holder* (13), place the M6 lock washer (14) on the M6 x 12 button head screw (15) then insert the screw through the hole in the blade wrench holder (D).
(* Note: The push stick is also stored here.)



Next thread the screw into the hole on the left side of the cabinet behind the Switch Box. Tighten the screw with a 4mm hex wrench.

2. To install the accessory tool holder (D), place the M6 lock washer (14) on the M6 x 12 button head screw (15) then insert the screw through the hole at the bottom of the accessory tool holder.



Mount the accessory tool holder to the cabinet by slipping the ends of the hooks on the side of the tool holder (D) into the corresponding slots on the front lower corner of the right side of the cabinet and threading the screw into the hole in the cabinet. Tighten the screw with a 4mm hex wrench.

Push Block Storage

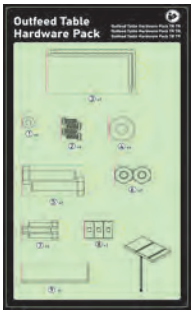
A Push Block is included with your saw and is equipped with magnets for convenient storage of the Push Block on the exterior cabinet of the saw.

This accessory should be stored toward or on the front of the saw where where it is easily accessible to the user. When the Push Block is not in use, refrain from storing the Push Block on the top side of the saw table where it could interfere with cutting operations and possibly result serious injury.

8. INSTALLING THE OUTFEED TABLE

The included outfeed table provides additional support for a larger workpiece at the back of the saw. The outfeed table and related hardware is contained in one box. Inventory all the parts before you begin. The box contains the following:

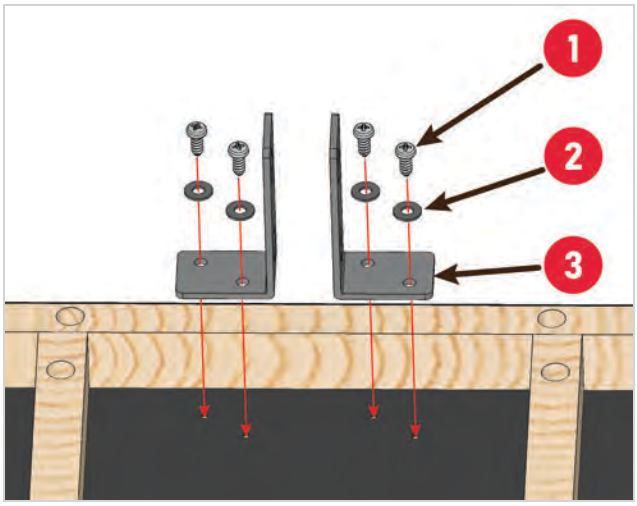
- Outfeed table
- Support leg
- Hardware pack*



*This hardware pack is specific and contains only parts for the outfeed table. It is not to be confused with the larger hardware pack associated with the rest of the table saw.

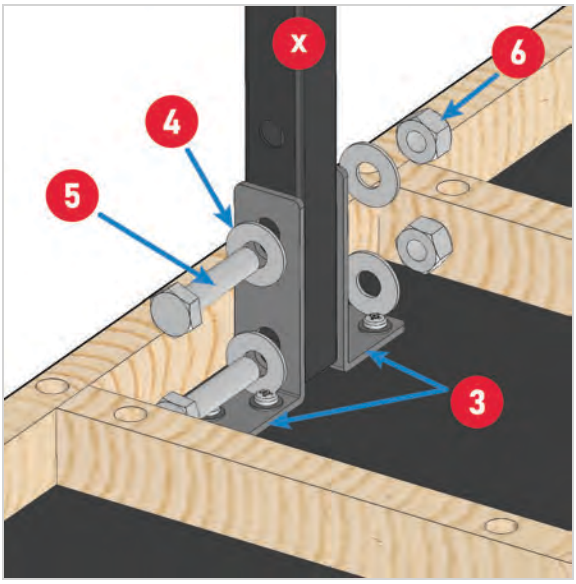
Install the Leg Support Brackets

1. Install one washer (labeled 1 on the hardware pack) onto each of the four screws (labeled 2 on the hardware pack).
2. Locate the pre-drilled holes shown below on the underside of the outfeed table. Attach the L brackets (3) to the outfeed table as shown using the screws and washers you assembled in the previous step.

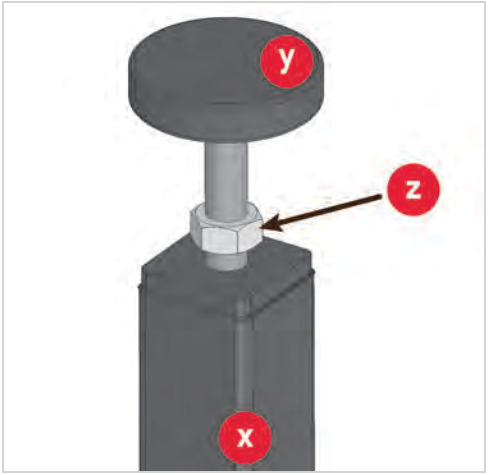


Attach the Support Leg

3. Install one washer (4) onto each of the two bolts (5).
4. Locate the holes in the top of the support leg (opposite from the leveling foot). Align the holes in the support leg (x) with the holes in the L brackets (3) you installed in step 2.

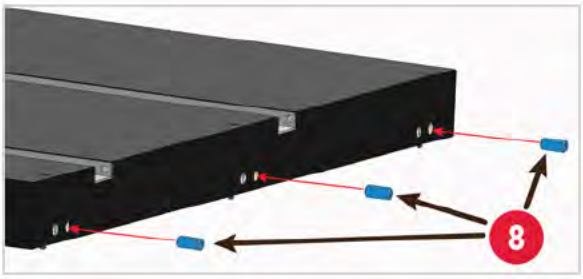


5. Insert the bolts with washers you prepared in step 3 as shown. Add a second washer (4) and nut (6) onto the end of each bolt (5) and tighten using a 17mm wrench.
6. Adjust the leveling foot (y) to approximate the correct height. Do not tighten the jam nut (z) on the leveling foot at this time.

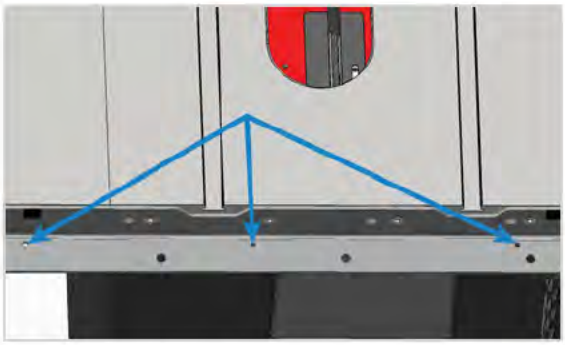


Attach Outfeed Table to Fence Rail

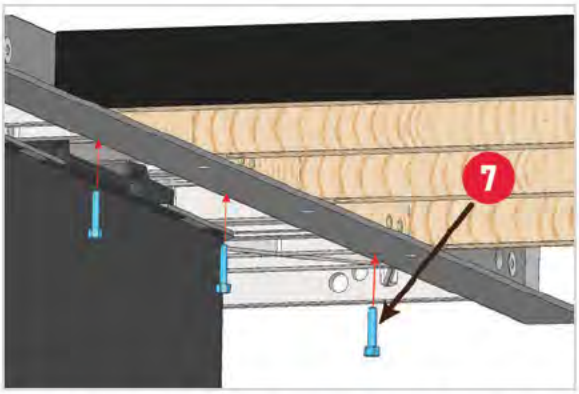
7. Install the three barrel nuts (8) into the horizontal holes at the edge of the outfeed table. Make sure the slots on the barrel nuts are facing outward so the position of the barrel nuts can be adjusted with a flat blade screwdriver.



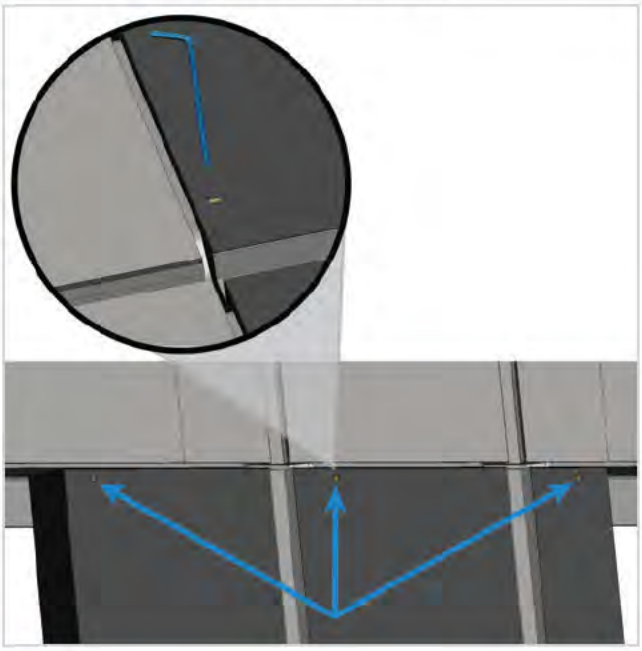
8. Locate the three small outfeed table mounting holes in the rear fence rail indicated below.



9. Align the corresponding holes on the underside of the rim of the outfeed table with the holes in the fence rail. These holes are perpendicular to those containing the barrel nuts you installed in step 7.
10. Install the three M5 hex head bolts (7) from the underside of the fence rail and thread them into the barrel nuts (8) that you installed in step 7. The orientation of the barrel nuts may need to be adjusted so that the threads in the barrel nuts are aligned with the path of the bolts being installed. Do not fully tighten the hex head bolts at this time.



11. From the top side of the outfeed table, adjust the three leveling set screws (v) using a 2.5mm hex wrench. Leveling is complete when the leading edge of the Extension Table sits about 1mm below the height of the cast iron saw table and the outfeed table is level from left to right.



WARNING:

If desired, this height adjustment can put the Extension Table flush with the cast iron table (exact same height). For safety reasons, take special care that the outfeed table surface DOES NOT EXCEED the height of the cast iron table.

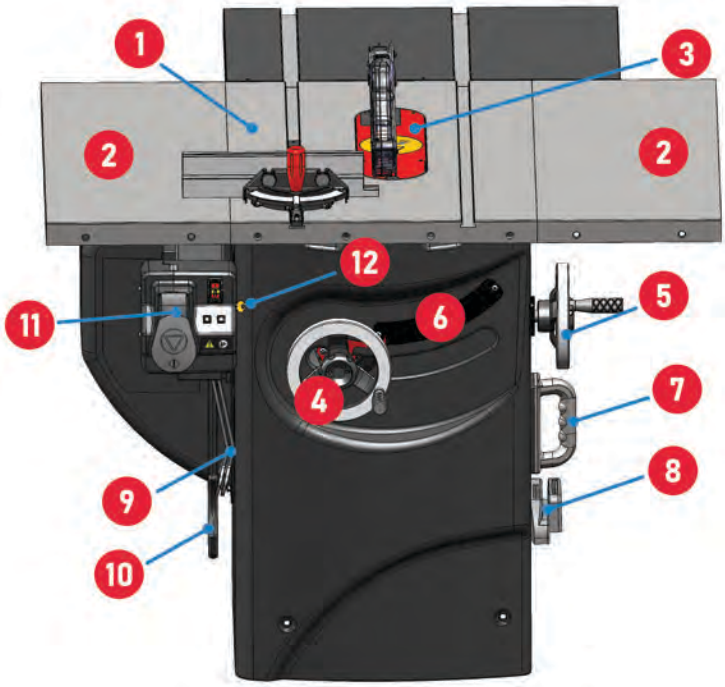
12. Make a final adjustment to the leveling foot at the bottom of the support leg and ensure that the outfeed table is level front-to-back. Secure the jam nut against the bottom of the support leg using a 12mm wrench.
13. Secure the bolts you installed in step 10 using an 8mm wrench. Do not over-tighten.

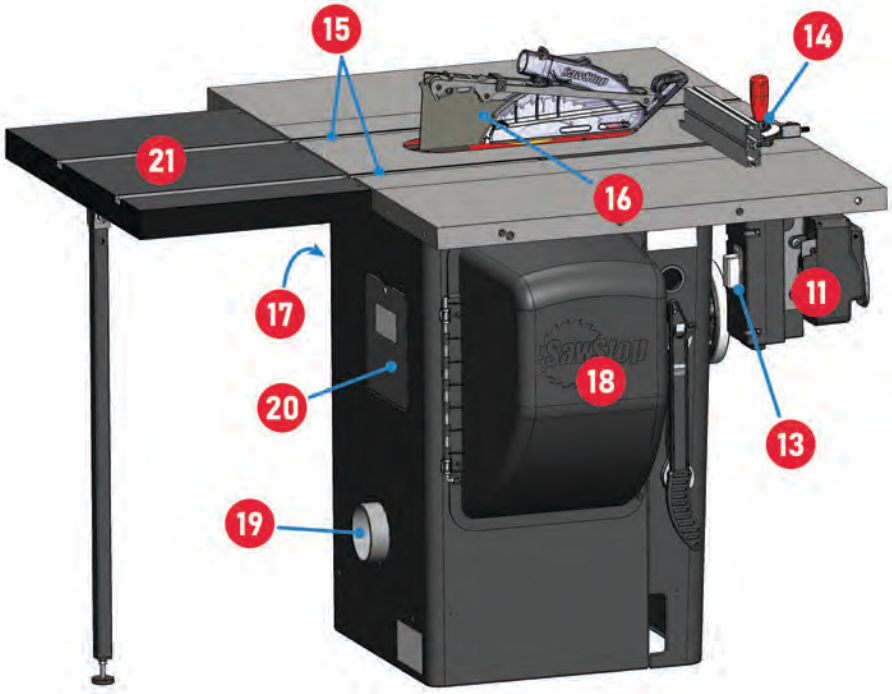
Congratulations! Your SawStop Professional Cabinet Saw is now assembled.

GETTING TO KNOW YOUR SAW

OVERVIEW

The major components of your saw are identified below. Make sure you become familiar with these components in order to follow the instructions in this manual.

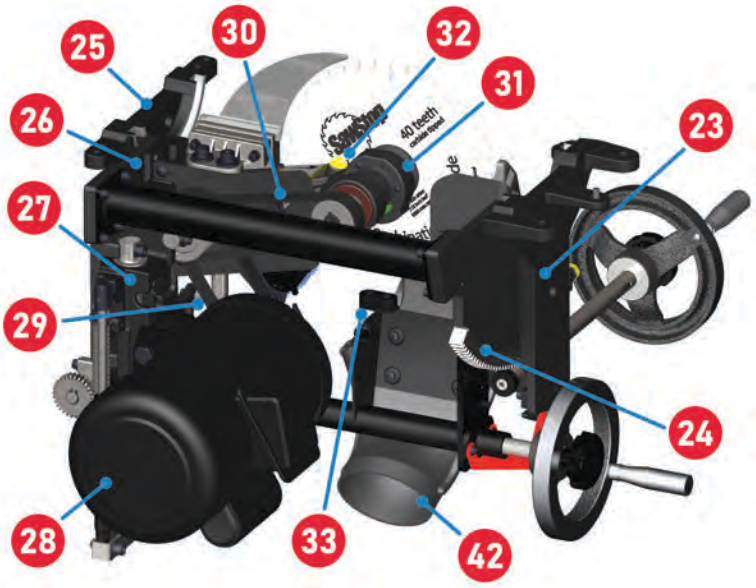


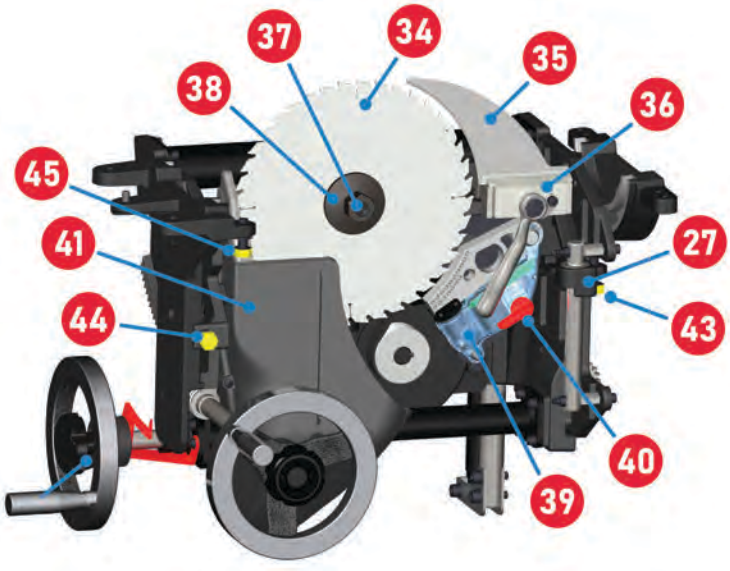


External Components

1. Table Top
2. Extension Wings
3. Standard Table Insert
4. Elevation Handwheel
5. Tilt Handwheel
6. Tilt Angle Scale
7. Push Block (magnetic)
8. Accessory Tool Holder
9. Blade Wrenches (2)
10. Push Stick
11. Switch Box
12. Bypass Key
13. Thermal Overload Switch
14. Miter Gauge
15. Miter Gauge Slots
16. Blade Guard Assembly
17. Side Access Panel
18. Motor Cover
19. Dust Port
20. Rear Access Panel
21. Extension Table
22. Riving Knife*

* Not pictured. Optional accessory included with the Floating Dust Collection Guard.





Internal Components

23. Front Trunnion Bracket
24. Front Trunnion
25. Rear Trunnion Bracket
26. Rear Trunnion
27. Elevation Plate
28. Motor
29. Motor Belt
30. Arbor Belt
31. Arbor Block
32. Brake Positioning Bolt
33. Arbor Bumper
34. Saw Blade
35. Riving Knife*
36. Quick-Release Clamp Handle
37. Arbor Nut
38. Arbor Washer
39. Brake Cartridge
40. Cartridge Key
41. Dust Shroud
42. Dust Port
43. Upper Elevation Limit Stop
44. 0° Tilt Limit Stop
45. 45° Tilt Limit Stop

* Optional accessory included with the Floating Dust Collection Guard.

POWER CONTROLS

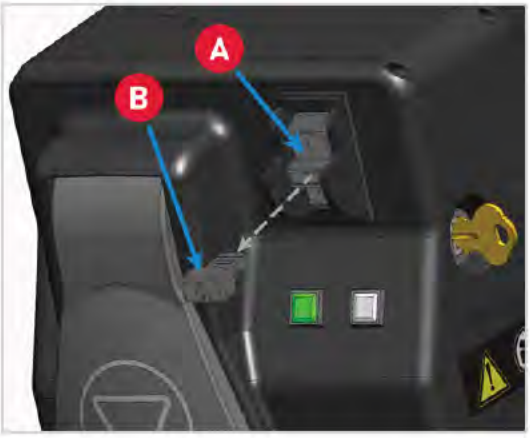
Use the power controls to run the saw and monitor the saw's status (see **USING THE MITER GAUGE** on page 43).

A. Power Switch
B. Status Lights
C. Start/Stop Paddle for Blade

Status lights can flash slow or fast (see **STATUS LIGHTS & CODES** on page 39).

LOCKOUT

The main power switch has a lockout key (B) that can be removed to prevent children or other non-authorized users from turning the saw on. To remove the key, pull it out, away from the switch (A). To replace the key, press it back into the socket until it snaps into place. When the key is removed, the main power switch can be turned OFF, but it cannot be turned ON.



NORMAL MODE AND STANDBY MODE

Normal Mode is the regular operating mode when the saw is running, the mode you use to cut non-conductive materials. Standby Mode is when the saw is not running but ON. The safety system is active in both modes.

It is not necessary to turn the main power switch off after pushing in the Start/Stop paddle to turn off the motor. If you plan to make several cuts with the saw, you can leave the main power switch in the ON position between cuts to eliminate the delay due to the initialization routine. Once you have finished using the saw, turn the main power switch to OFF to reduce the likelihood of unintentional start-up.

BYPASS MODE

Use Bypass Mode to 1) determine if a material is conductive 2) disable the safety system so you can cut conductive materials. (see page 45)

IMPORTANT:
There is no protection in Bypass Mode; the brake will not activate if your skin touches the spinning blade. Use Bypass Mode only to test a material for conductivity and to cut conductive materials. To learn how to activate bypass mode, see page 45.

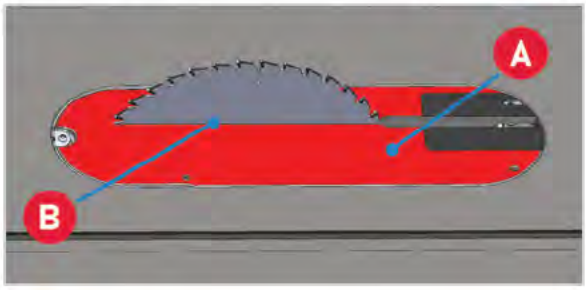
STATUS LIGHT CODES

The green and white lights under the power controls indicate the status of the saw. The lights can display individually or in combination, depending on the status. Either light can flash slowly or quickly. Either light can display as solid.

(See **STATUS LIGHTS & CODES** on page 39)

TABLE INSERT

Your Professional Cabinet Saw uses a 'zero-clearance' insert (A). The zero clearance slot (B) is pre-cut at the factory. The zero-clearance slot maximizes support under narrow cuts and reduces risk of kickback. You will need to cut the slot in replacement inserts (see page 62).



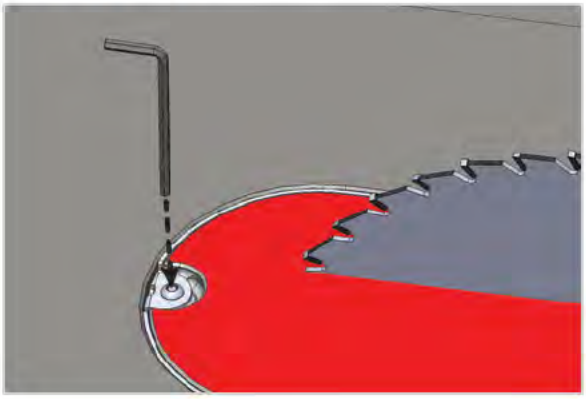
How to Remove the Insert

WARNING:
Always turn off the main power switch and unplug the power cord before removing or installing the table insert on your saw.

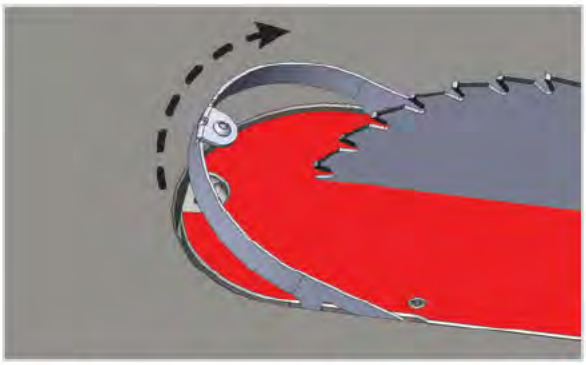
The rear of the table insert is held in place by two lock-down screws in the bottom rear of the insert and two lock-down screws in the table opening. It is held down in the front by latches formed at the ends of a rotating lock-down lever.

Removal steps:

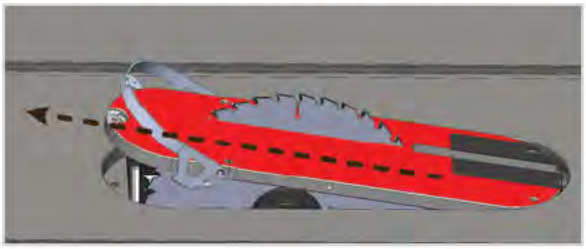
1. Use a 3mm hex wrench as shown below to loosen the small screw that secures the silver, metal lock-down lever.



2. Lift the silver metal tab to rotate the lock-down lever upward.



3. Lift slightly on the end of the table insert that is closest to the operator so that it is just above the cast iron table.
4. Pull the table insert toward the operator.



How to Install the Insert

To install the insert, perform the above steps in the reverse order. Be sure that the metal lock-down lever is lifted to the upward position, then seat the insert into place using the same motion and angle with which it was removed. Once the insert is seated and flush with the table, press the metal lock-down lever fully downward and secure it in place using a 3mm hex wrench.

IMPORTANT:
Confirm that the small cap screw on the metal tab is fully tightened and flush. Failure to do so can cause the workpiece to catch or tip on the screw which can lead to binding of the workpiece and kickback.

If you wish to perform additional adjustment on the insert, see page 62.

BLADE GUARD

Using the blade guard is one of the most important steps you can take to prevent injury. Many table saw injuries occur when the blade guard is either not being used or not being used properly.

> **NOTE:**
> As the subject of blade guards is also closely integrated with the matters of dust collection, be sure to also read and understand the dust collection accessory options available for your saw. See **TOPSIDE DUST COLLECTION** on page 37.

Your blade guard type will depend on your chosen over-arm dust collection accessory. The blade guards included with each look different and are adjusted differently depending on whether you chose to accessorize your saw with the Floating Dust Collection Blade Guard (TSG-FDC), or the Overarm Dust Collection (TSA-ODC). For complete details, refer to the owner's manual included with your chosen top-side dust collection system.

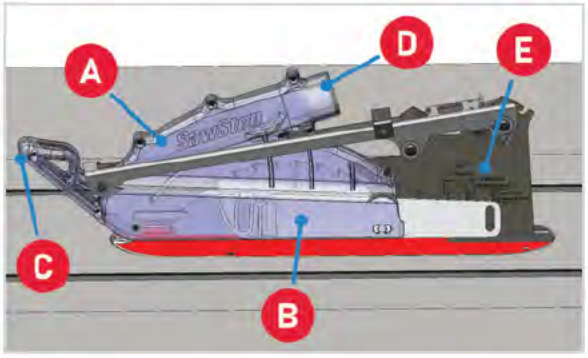
The following information is relevant to the spreader-mounted blade guard included with the Overarm Dust Collection (TSA-ODC):

The blade guard on your SawStop Professional Cabinet Saw was designed to have a narrow profile that allows you to use the guard even when making narrow rip cuts. As a result, there are only a few situations where the blade guard cannot be used (e.g., dado cuts, rabbet cuts, and extremely narrow cuts).

> **WARNING:**
> Always use the spreader mounted blade guard or the floating blade guard, depending on your application and the configuration that was provided with the saw. For more information about safely setting up various cut types see the **Safety and General Use Instructions for Table Saws** manual included with your saw.

Always use the blade guard when making through-cuts. Use the low fence (see page 46) for thin cuts and narrow cuts.

Install the blade guard as describe on page 32. The blade guard consists of a top guard (A), side guards (B), wood stop (C), dust port (D) and spreader (E) and anti-kickback pawls (not shown)*.



- The side guards (B) are mounted to the top guard (A) so that they can pivot freely to automatically adjust to the height of the workpiece (up to 3 1⁄8" (79.3mm) high).
- The front of the top guard is formed into a wood stop (C) that prevents wood that is too thick to move through the blade guard from entering the guard.
- The spreader (E) helps minimize kickback by preventing a workpiece from pinching or shifting into the back of the blade. The spreader also supports a set of anti-kickback pawls* to further minimize kickback.
- The anti-kickback pawls* (not shown) help reduce the likelihood of kickback.

* Anti-kickback pawls are an optional accessory included with the Floating Dust Collection Guard.

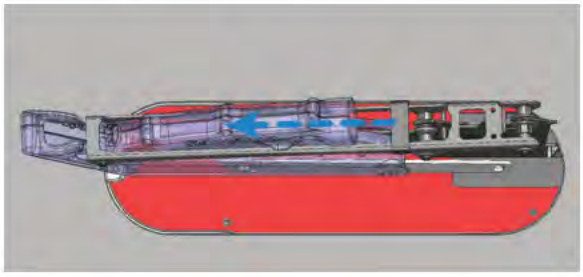
To use the blade guard, set the blade elevation and tilt angle to the desired settings and, if necessary, install or swing down the top guard so that the side guards rest on the table or insert. Make sure the top guard is securely in place in the spreader before use.

Cut the workpiece as described in the **Cut Types** chapter of the **Safety and General Use Instructions for Table Saws** that was included with your saw. The side guards will "float" on the top of the workpiece as the workpiece passes under the guard. The wood stop will prevent material that is taller than the height of the blade from entering the blade guard. The top guard and side guards are constructed of clear polycarbonate to allow you to clearly see the blade and the workpiece as it passes under the guard. After making the cut, the cut-off portion of the workpiece may be held beneath one of the anti-kickback pawls. In this case, turn

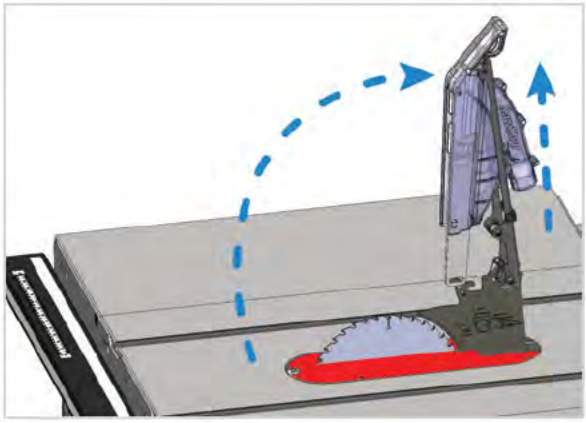
off the motor and wait until the blade stops before pushing the cut-off portion past the anti-kickback pawl.

Keep the guard clean and free of dust to allow unobstructed viewing of the blade and workpiece. For successful operation, the spreader must remain flat, and the side guards and anti-kickback pawls must pivot freely. If any portion of the blade guard ceases to function properly, replace or repair it before continuing to use the saw. When not in use, the blade guard can be stored by inserting the bottom of the spreader in the outer slot of the accessory tool holder mounted to the side of the saw.

The top guard can be placed in an upright position so that you can change the blade without removing the guard. Pull the top guard forward slightly and then up to release it from the front of the spreader.

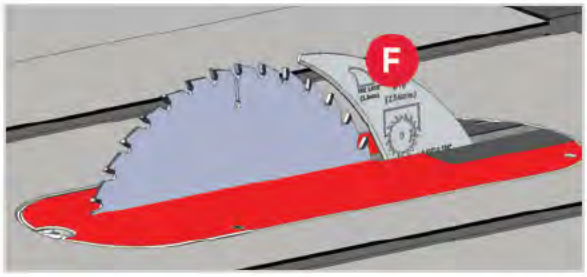


The top guard may then be placed in an upright position, balanced against the spreader. Once upright, the top guard may be removed from the spreader by lifting it up vertically. To reinstall the top guard in the spreader, reverse the process.



RIVING KNIFE

Like the spreader, the Riving Knife* (F) helps prevent pinching and binding, which reduces the likelihood of kickback.



Use the Riving Knife instead of the blade guard when 1) a rip cut is too narrow for clearance between the blade guard and the rip fence or 2) you are making a non-through cut (the blade does not pass all the way through the thickness of the material), as shown in the illustration, above. For more information about safely setting up various cut types, see the **Safety and General Use Instructions for Table Saws** manual included with your saw.

NOTE:

* The riving knife is an optional accessory available for purchase through the online SawStop parts store. If you purchased your saw configured with the Floating Dust Collection Guard (TSG-FDC), a 10" / 254mm blade compatible riving knife is provided.

PREPARE YOUR SAW FOR USE

SOLID, LEVEL & CLEARANCE

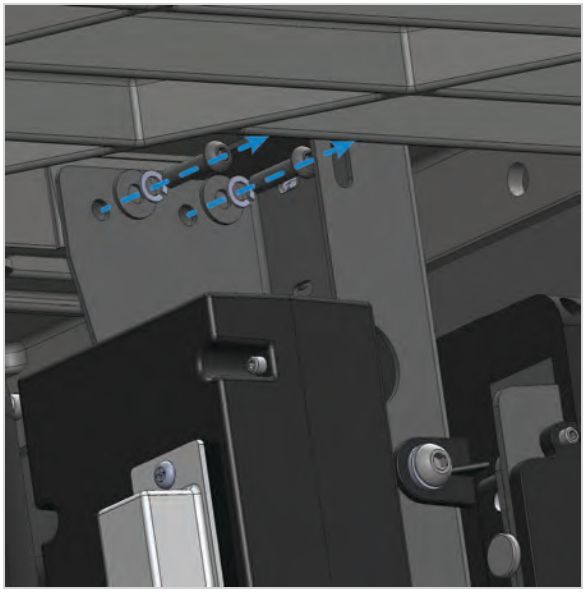
Place the saw on a solid and level working surface. Make sure there is enough space around the saw so that you can cut the workpiece without interference.

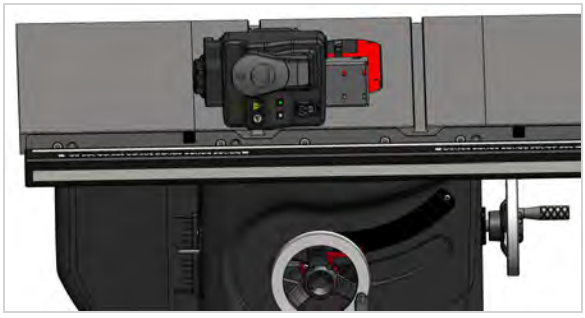
Also, make sure the workpiece is not too large to safely control as you make the cut. Make sure that you are able to prevent the workpiece from overbalancing as you pass the workpiece across the table and complete the cut.

HOW TO TRANSPORT THE SAW

Follow these steps to transport or store the saw:

1. Turn off the saw, disconnect the power supply and properly secure the power cable.
2. Dismantle the Extension Table and over arm dust collection accessories (if present). Transport these items separately.
3. Remove the rip fence, miter gauge and blade guard. Transport these accessories separately.
4. Remove the switchbox and set it on top of the table.

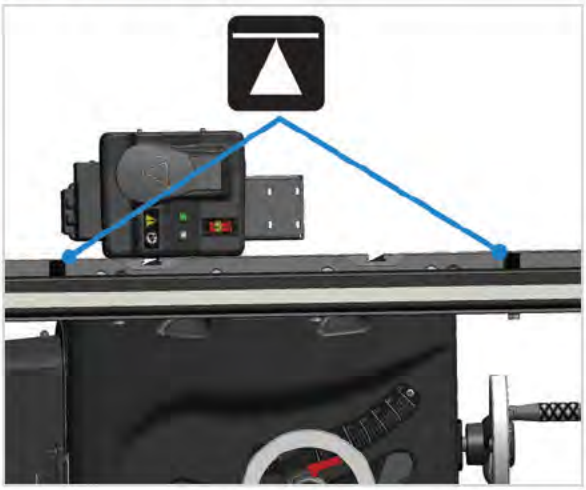




5. Wind and secure the power cord.
6. Fully lower the blade using the adjustment handwheel on the front of the saw.

7. Set the bevel adjustment to 24.5° using the handwheel on the right side of the saw. This step positions the motor to optimize the center of gravity of the saw to the center of the table.

8. Position the lift straps under the table and placed close to the cabinet.



Look for the lift points marked on the saw with the symbol shown at right. This placement avoids excess strain on the extension wing fasteners.

WARNING:
Lift straps rated for 500lbs (227kg) or greater are required.

9. Using your lifting device attach the lift straps with an even length distribution an you can securely lift your Professional Cabinet Saw.

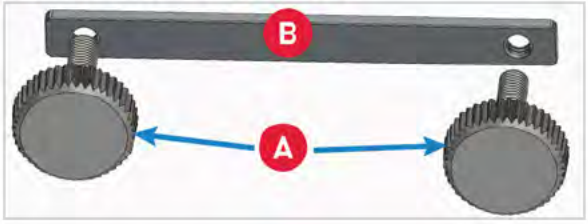
IMPORTANT:
If transporting over distance by truck, be advised there are additional steps for bolting the trunnions to the trunnion brackets to minimize flexing of the trunnions during shipping/bouncing. Contact SawStop Support for further information.

ASSEMBLE THE MITER GAUGE

A crosscut fence is included with your miter gauge. The fence consists of an aluminum extrusion that attaches to the face of the included Miter Gauge. When attached, the fence offers additional support for a larger workpiece when passing it through the saw.

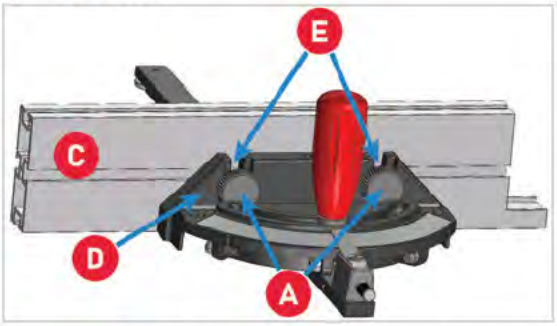
WARNING:
The included auxiliary fence is constructed of metal and is therefore conductive. If the crosscut fence comes into contact with the blade during operation, the SawStop safety system will activate. Take precautions to ensure the fence is properly positioned to avoid this by following the assembly steps below.

1. Thread the two included thumbscrews (A) into the threaded holes of the metal clamp bar (B). Just a few turns is sufficient for now.



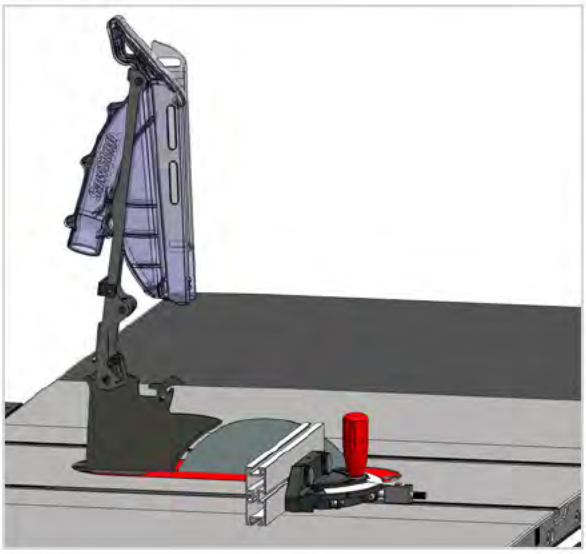
2. Slide the metal clamp bar assembled with the thumbscrews into the T-slot on the fence (C) as shown. Position the guide bar toward the middle of the fence for now.

3. Place the miter gauge into the miter slot located to the left of the blade.
4. Place the assembled metal clamp bar (B), thumbscrews (A), and fence (C) onto the miter gauge as shown.

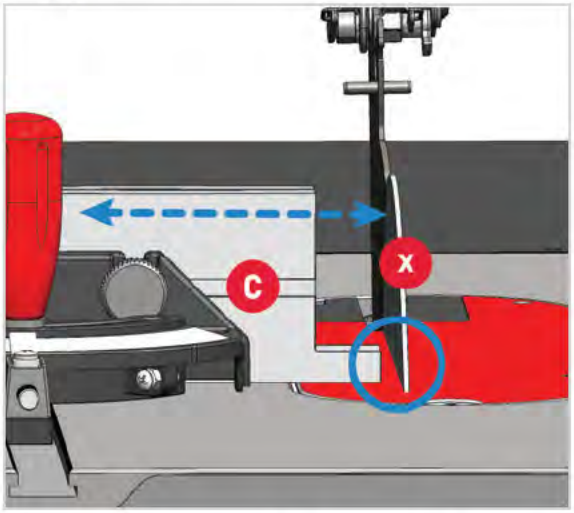


The crosscut fence (C) is positioned in front of the head of the Miter Gauge (D), and the shafts of both thumbscrews (A) are aligned with the upward-facing slots (E) on the miter gauge head.

5. Raise the saw blade and raise the blade guard as shown.



6. Slide the auxilary fence (C) in relation to the miter gauge body so that there is not less than 1/8" (3mm) clearance between the fence (C) and the blade (x).

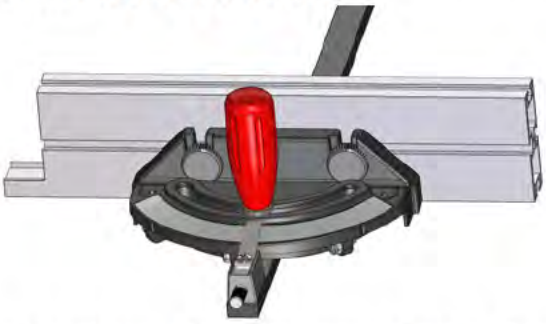


7. Secure the thumbscrews to ensure that the fence does not move during cutting operations.
8. With the saw still powered off, move the miter gauge forward and back along the full length of the miter slot and confirm that the fence does not contact the saw blade.

Reversing The Crosscut Fence

The profile of the fence is designed to pass under the blade guard when moving the workpiece through the saw. When using the miter gauge in the miter slot located to the left of the blade, the crosscut fence should be oriented as shown above, ensuring that the short portion of the fence extrusion is facing the blade.

If you choose to use the miter gauge in the miter slot located to the right of the blade, the orientation of the fence must be reversed as shown below.



As with the previous procedure, ensure that the short portion of the fence is nearest to the blade with a clearance of 1/8" (3mm) between the fence and the blade.

The assembly method using the metal clamp bar and thumbscrews with the fence extrusion is identical to the procedure described in the previous section.

HOW TO INSTALL THE BLADE GUARD OR RIVING KNIFE

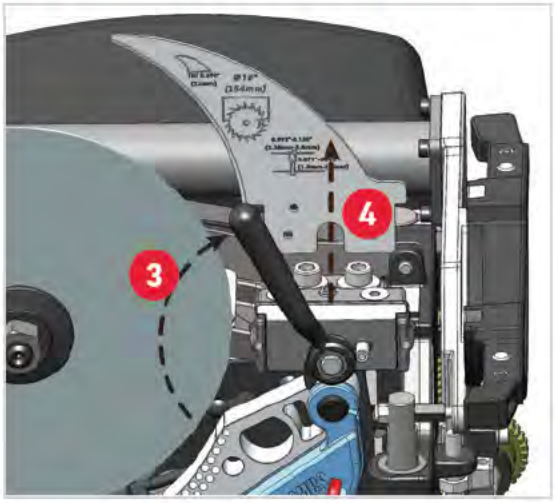
Your SawStop Professional Cabinet Saw includes a unique, quick-release blade guard mounting system. This mounting system was developed to allow you to quickly remove and install a blade guard or riving knife* without the use of tools and without the need for realignment. The mounting system is factory-aligned to the arbor flange and should not require adjustment. If you wish to change the alignment, see**ALIGNING THE RIVING KNIFE/SPREADER TO THE BLADE** on page 58 for instructions.

NOTE:

* The riving knife is an optional accessory available for purchase through the online SawStop parts store. If you purchased your saw configured with the Floating Dust Collection Guard (TSG-FDC), a 10" / 254mm blade compatible riving knife is provided.

For the majority of sawing operations, including all through-sawing (where the blade cuts through the top of the wood), either the riving knife or spreader-mounted blade guard should be used. To install the blade guard, follow the steps below.

1. Remove the table insert.
2. Turn the elevation wheel clockwise to fully raise the blade.
3. Pivot the handle (3) up to open the clamp.



4. If present, remove the riving knife (4) by moving it slightly toward the right to clear the positioning pins, then lift it out of the clamp.
5. To install the spreader-mounted blade guard in its place, position the spreader in the clamp and flat against the base plate. The positioning pins will align the spreader in the correct position without effort.
6. Lower the clamping handle (3) completely to lock the spreader in place. If the clamping handle is difficult to lower, make sure the spreader is positioned flat against the base plate.

NOTE:

To remove the spreader-mounted blade guard, use the same procedure as removing the riving knife described above. Similarly, to install the riving knife, use the same procedure as installing the spreader-mounted blade guard.

The clamping force used to hold the spreader or riving knife in place can be increased if the spreader and riving knife are not held securely, or decreased if too much force is required to lower the clamping handle. For clamping force adjustment instructions, see page 61.

IMPORTANT:

When using a dado set, neither the spreader-mounted blade guard nor the riving knife may be used. Instead, use other protective devices such as push sticks, push blocks, and feather boards.

After completion of grooving cuts, before returning to normal sawing operations, be sure to mount and adjust the riving knife or spreader.

NOTE:

Both spreader and the riving knife accessories are 2.3mm (0.090 inch) thick. Do not use a saw blade with a kerf less than 2.35mm with these tools. The kerf of a saw blade is the width of the cut produced by the blade.

WARNING:

Use the blade guard and spreader for every operation for which it can be used, including all through-sawing.

Related topics:

- **ALIGNING THE RIVING KNIFE/SPREADER TO THE BLADE** on page 58
- **SETTING THE HEIGHT OF THE RIVING KNIFE/SPREADER** on page 60
- **ADJUSTING THE CLAMPING FORCE FOR THE RIVING KNIFE/SPREADER** on page 61

HOW TO DISABLE THE ANTI-KICKBACK PAWLS

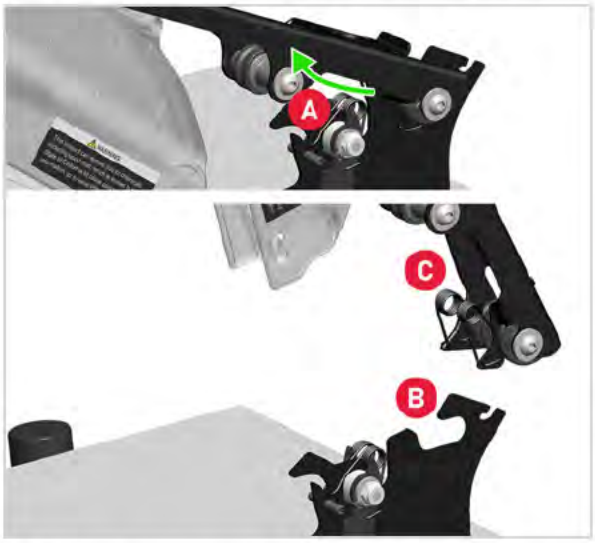
> **NOTE:**
> Anti-Kickback Pawls are an optional accessory available for purchase through the online parts store.

The anti-kickback pawls help reduce the chance of kickback and potential injury or property damage. The pawls are spring-loaded and designed to engage the workpiece if the workpiece moves towards the front of the saw. The pawls ride against the top of the workpiece as you make the cut. As you finish the cut, push the workpiece entirely past the back of the blade and the pawls, disengaging the workpiece from the pawls. The pawls are used for any cutting situation where the blade guard is used. It's also possible to disable the pawls for exceptions as needed.

Rotate both pawls up until they over-center and remain in the up and disabled position. You must rotate both pawls simultaneously. To enable the pawls, rotate the pawls back down into the working position.

If you prefer to remove the pawls completely, perform the following steps.

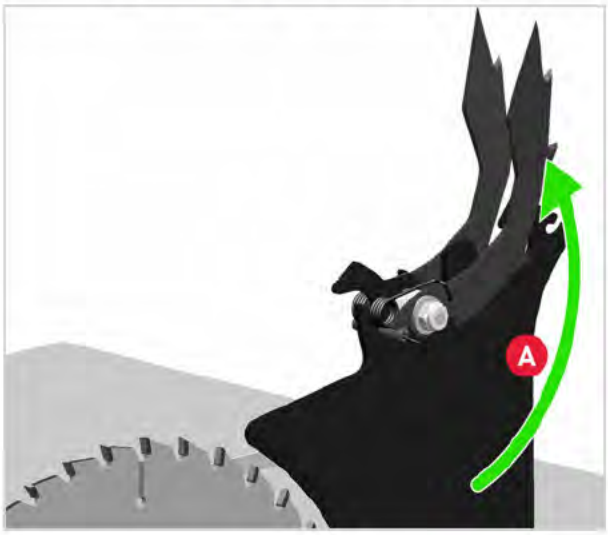
1. To separate the blade guard from the spreader, rotate up and pull forward (A) until the guide and height adjustment wheels are clear of the spreader (B). Continue to lift and rotate until the top guard spring (C) releases from the spreader.



For clarity, the anti-kickback pawls are not shown in the above illustration.

(Reverse these steps when you need to reinstall guard.)

2. To remove pawls, pull pawls back, up (A) ...



and forward to remove (B).

HOW TO ATTACH A DUST COLLECTOR

Your SawStop Professional Cabinet Saw employs a below-table dust shroud around the blade to provide superior dust collection to ordinary saws. A flexible hose connects the dust shroud to a Dust Port that mounts to the back of the cabinet. Connect a suitable dust collection system to the Dust Port and always use the dust collection system when making a cut.

While the Dust Port on the back of your saw requires a 4" (101mm) diameter flex hose, employing adapters and running larger diameter hose or duct for the greater length of the run between your dust collector and saw will result in more efficient dust collection.

MINIMUM DUST COLLECTOR SPECIFICATIONS	
Airflow	850 m^3/hour
Inlet diameter	4" (10cm)
Pressure drop	0.22 psi (1,5 kPa)
Recommended conveying air velocity in the duct	65.6 ft/s (20 m/s)

External chips and dust extraction systems should be designed according to EN 12779:2015 or EN 16770:2018.

If you power your dust collector and SawStop saw from the same electrical circuit, ensure the circuit and breaker has sufficient capacity for both machines.

IMPORTANT:
Always use a dust collection system when making cuts. Turn on the dust collection system before turning on the saw to make the cut. Keep the system free of accumulated dust and debris.
Your Professional Cabinet Saw MUST be configured with one of the options described below.

TOPSIDE DUST COLLECTION

As this subject is closely integrated with available blade guard options, be sure to also read and understand the **BLADE GUARD** section beginning on page 30.

Two solutions are available from SawStop for top side dust collection. Your Professional Cabinet saw purchase includes one of these dust collection accessories described below. For complete installation and setup instructions, please refer to the separate manual included with your over arm dust collection accessory.

FLOATING OVERARM DUST COLLECTION (TSG-FDC)

This heavy-duty 4" (101mm) overarm is designed to provide operator protection while removing table-top dust in both standard and non-through cuts. The transparent blade cover is engineered to lift easily for quick blade access, and the rigid steel overarm swings smoothly away and back into operating position. The wide pipe allows for high air volume collection.

NOTE:

This floating guard provides optimal safety for grooving cuts as a spreader-mounted blade guard must be removed for grooving.

OVERARM DUST COLLECTION (TSA-ODC)

The Overarm Dust Collection system ships with the SawStop Dust Collection Blade guard for easy, reliable dust management that captures 99% of dust. The rubberized collar easily fits your DC Guard, and routes dust past the end of your Extension Table before joining your saw's 4" (101mm) collection port for extraction.

- Custom Y-Port unites 2.5" (63.5mm) duct above the table with one 4" (101mm) port below the table.

USING YOUR SAW

STATUS LIGHTS & CODES

The green and white lights under the power switch indicate the status of the saw. The lights function independently or in combination, depending on the status. Either light can flash slow or fast, or be on continuously. The white light can flash once indicating the saw is in Bypass Mode (see page 45).

Error codes not listed may also appear. If you are not able to identify the code or resolve an error situation, contact the SawStop Service department. Visit SawStop.eu/support for contact information.

See the descriptions of the status conditions in the table below.

GREEN	WHITE	STATUS	DESCRIPTION
Solid on	Slow blink	Starting up Initializing	The system is performing self-checks and energizing the brake system. This code should clear within 15 seconds after you turn on the power switch. If the ambient temperature is very low (below about 0° F (-17.8C)), this code may take longer to clear.
Solid on	Off	Ready or running	All self-checks have been completed, the safety system is operating properly, and the saw is in Standby Mode and ready to run.
Fast blink	Off	Coasting down	The blade is coasting down and that the safety system is ready to activate the brake if contact is detected. The safety system monitors the rotation of the blade while it is coasting down. If you touch the blade while this code is flashing, the brake will activate.
Solid on	Off	Bypass Mode ON*	The saw is running in Bypass Mode and will NOT activate the Brake Cartridge if you contact the spinning blade. Bypass Mode allows you to cut electrically conductive materials without activating the brake. When the saw is in Bypass Mode, the safety system is disabled.
Fast blink	Fast blink	Paddle OUT	The Start/Stop paddle is in the ON position (pulled out) before you turn on the power switch. Push the paddle in to the OFF position to clear this code. This is a safety feature to prevent the saw from restarting after a power loss or after the safety system has turned the saw off due to an error detected during use.
Solid on	Fast blink	Blade contact while stopped	There was contact with the blade (or a portion of the arbor) when the blade was not spinning in Standby Mode. Contact in this mode does not activate the brake. The code will automatically clear within 5 seconds after contact has ended. The system will not allow the motor to start while this code is displayed.

GREEN	WHITE	STATUS	DESCRIPTION
Slow blink	Fast blink	Blade contact during bypass	Contact was detected while the saw was running in Bypass Mode. The code indicates that the brake would have activated if the system had not been in Bypass Mode. The brake will not activate but the safety system will continue to monitor for contact. This error will automatically clear once the blade has finished coasting down.
Off	Slow blink	Brake Cartridge Key error	The cartridge locking key is not installed correctly. To clear this error, first turn the power switch to OFF, and then make sure the Cartridge Key is fully locked. See **INSTALLING A REPLACEMENT BRAKE CARTRIDGE** on page 74.
Off	Fast blink	Overload due to moisture	The material is too wet or green. Cycle the Start/Stop paddle and the power switch to clear. Allow material to dry or cut in Bypass Mode.
Slow blink	Solid on	Small or missing blade	1. There is no blade currently installed or the blade is too small and thus incompatible with your saw. Switch power off, unplug the power cord and install a 10" (254mm) blade (or 8" Dado set and brake). 2. The blade is either too far from or too close to the Brake Cartridge. To clear this error first turn the main power switch to OFF, and then adjust the position of the Brake Cartridge as described on page 75.
Fast blink	Solid on	No blade rotation	The blade is stalled. Cycle power and cut material more slowly. Contact SawStop Technical Support if issue persists (see SawStop.eu/support).
Off	Solid on	Replace Brake Cartridge	The Brake Cartridge has already activated or there is some other permanent defect that cannot be corrected. If the cartridge has not activated, cycle the power off and on. If the error continues, install a new cartridge (ee **INSTALLING A REPLACEMENT BRAKE CARTRIDGE** on page 74).

WARNING:

* THERE IS NO PROTECTION IN BYPASS MODE; the brake will not activate if you touch the spinning blade. Use Bypass Mode only to test a material for conductivity and to cut conductive materials. Use extra caution in Bypass Mode.