

The
Renovator



Twist-A-Saw



SAFETY AND OPERATING MANUAL

**FOR THE STANDARD
AND DELUXE KIT**



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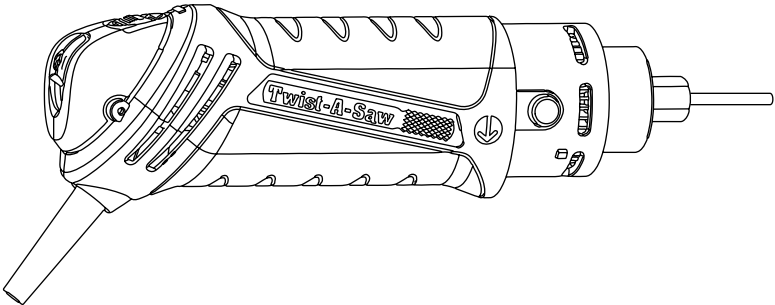
Warranty 47

 Two (2) year limited replacement warranty statement. 47

 Your warranty is subject to the following conditions: 47

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Welcome

About this manual

Congratulations on purchasing your Twist-A-Saw™ rotary tool. Before using it, please read this manual carefully.

This manual covers how to safely use your Twist-A-Saw™ rotary tool, as well as tips for using and maintaining it.

Note: All components and accessories listed in this manual are manufactured using metric measurements. The metric and imperial comparisons in this manual are approximate (1mm = approximately 1/32"). We recommend you use the standard imperial size that is closest to the metric size shown.

Example: 6.35mm = approximately 1/4".

Standard and Deluxe Kits

The Standard Kit includes 6 cutting bits and 174 rotary accessories. The Deluxe Kit includes 11 cutting bits and 276 rotary accessories. See the Twist-A-Bits workshop guide or the rotary accessories case insert for details.

Twist-A-Bits workshop guide

We've also included a handy workshop guide so you can quickly match the right bit and recommended speed to the material you wish to cut.

Pin this on your workshop wall, or keep it somewhere safe.



Support

If you experience problems with the Twist-A-Saw™ rotary tool or its performance, please call our Customer Service Team for assistance:

- ✓ 1800 890 840 in Australia
- ✓ 0800 002 999 in New Zealand
- ✓ 1800 200 3111 in United States

Safety

Safety first!

Your Twist-A-Saw™ is an advanced power tool. Your enjoyment will rely on observing a high level of personal safety as well as protecting the safety of others.

This section sets out important safety guidelines for operating your Twist-A-Saw™.

Work area safety

Follow the guidelines below to ensure your work area is safe to use the Twist-A-Saw™.

Safety guideline

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Safety

Electrical safety

Follow the guidelines below to prevent electric shock when using the Twist-A-Saw™.

Recommendation: Power to the tool should always be supplied via a residual current device with a rated residual current of 30mA or less.

Safety guideline

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with the Twist-A-Saw™.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.
- Do not expose power tools to rain or wet conditions. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.
- Hold the Twist-A-Saw™ by the insulated grip when cutting where hidden wiring may exist or where the power cords may lie. Electric shock may result when metal parts of the Twist-A-Saw™ make contact with 'live' wires.
- Always inspect walls and ceilings to avoid possible hidden power cables and pipes.
- Inspect power cords and plugs before using the Twist-A-Saw™. If any damage is apparent, have it repaired first.
- Always use extension cords that are in good condition. Don't exceed 25 metres or you may cause damage to the tool.

Safety

Personal safety

Follow the guidelines below to ensure your personal safety while operating the Twist-A-Saw™.

Safety guideline

- Stay alert, watch what you are doing and use common sense when operating the Twist-A-Saw™. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
- Use personal protective equipment. Always wear eye protection and ear protection. If operating in a dusty environment, wear a dust mask (see next page).
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source, picking up or carrying the tool.
- Remove any adjusting key or wrench before turning the Twist-A-Saw™ on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times.
- Dress properly. Loose clothes, gloves, jewellery or long hair can be caught in moving parts.
- Keep your hands clear of the work.

Safety

Dust safety

Some dust created by Twist-A-Saw™ from sanding, sawing, grinding, drilling and other construction activities on certain materials may contain chemicals known to cause cancer, birth defects or other harm.

Some examples of these chemicals are:

- ✓ Lead from lead-based paint.
- ✓ Crystalline silica and asbestos from bricks, cement and other masonry products.
- ✓ Arsenic, boron and chromium from chemically treated timber.

Follow the guidelines below to ensure your personal safety from dust while operating the Twist-A-Saw™.

Safety guideline

- Always work in a well-ventilated area.
- Use dust masks specifically designed to filter microscopic particles as well as other approved safety equipment.
- Use Twist-A-Saw™'s vacuum attachment with an approved filtering system to help catch dust from dispersing into the air.
- Avoid long periods of exposure to dust from sanding, sawing, grinding, drilling and other construction activities.
- Wear protective clothing and wash exposed areas with soap and water.
- Do not allow dust to get into your mouth, eyes or on exposed skin. This may promote the absorption of harmful chemicals.
- Direct dust particles away from your face and body.

Safety

Power tool use and care

Follow the guidelines below when operating your Twist-A-Saw™.

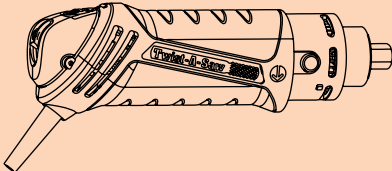
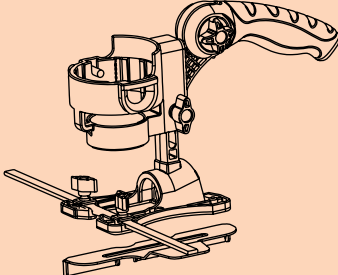
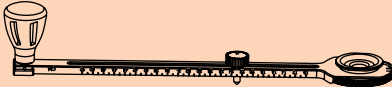
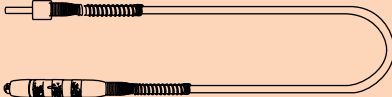
Safety guidelines

- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired by an authorised service technician.
- Disconnect the plug from the power source before making any adjustments, changing accessories or storing power tools. This reduces the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow people unfamiliar with the Twist-A-Saw™ or these instructions to operate the power tool.
- Maintain power tools. If any part is missing or damaged, do not plug Twist-A-Saw™ into the power source until the missing part or damaged part is replaced.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Have your Twist-A-Saw™ serviced only by an authorised service technician.
- Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by your hand or against the body leaves it unstable and may lead to loss of control.
- Only use accessories that are recommended for Twist-A-Saw™.
- Never use the Twist-A-Saw™ around flammable or volatile substances or use any volatile substance to clean the Twist-A-Saw™.

What's included

Twist-A-Saw™ components


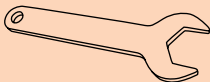
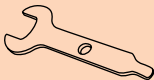
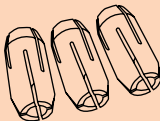
The following components are included with your Twist-A-Saw™.

Part	Description	
A	Twist-A-Saw™ rotary tool	
B	Twist-A-Saw™ Multi-Purpose Handle (includes: Depth Guide and Fence Guide)	
C	Twist-A-Saw™ Circle Cutter	
D	Twist-A-Flex™ rotary tool attachment	

Continued on next page...

What's included

Twist-A-Saw™ components

Part	Description	
E	Twist-A-Saw™ Vacuum Hose	
F	16mm (5/8") Collet Wrench	
G	10mm (3/8") Twist-A-Flex™ Collet Wrench	
H	6.35mm (1/4") Collet	
I	4.76mm (3/16") Collet	
J	3.2mm (1/8") Collet	

Accessories

For a list of the accessories included with Twist-A-Saw™, refer to the separate Twist-A-Bits workshop guide.

Note: All components and accessories listed in this manual are manufactured using metric measurements. The metric and imperial comparisons in this manual are approximate (1mm = approximately 1/32"). We recommend you use the standard imperial size that is closest to the metric size shown.

What's included

Australia & New Zealand Technical data

Rated: Voltage 230-240V

Rated Frequency: 50Hz

Power: 550Watts

Speed: 5,000 – 25,000/min

Protection Class: Double Insulation

Weight: 1kg



United States Technical data

Rated: Voltage 120V

Rated Frequency: 60Hz

Power: 550Watts

Speed: 5,000 – 25,000/min

Protection Class: Double Insulation

Weight: 2.2lb



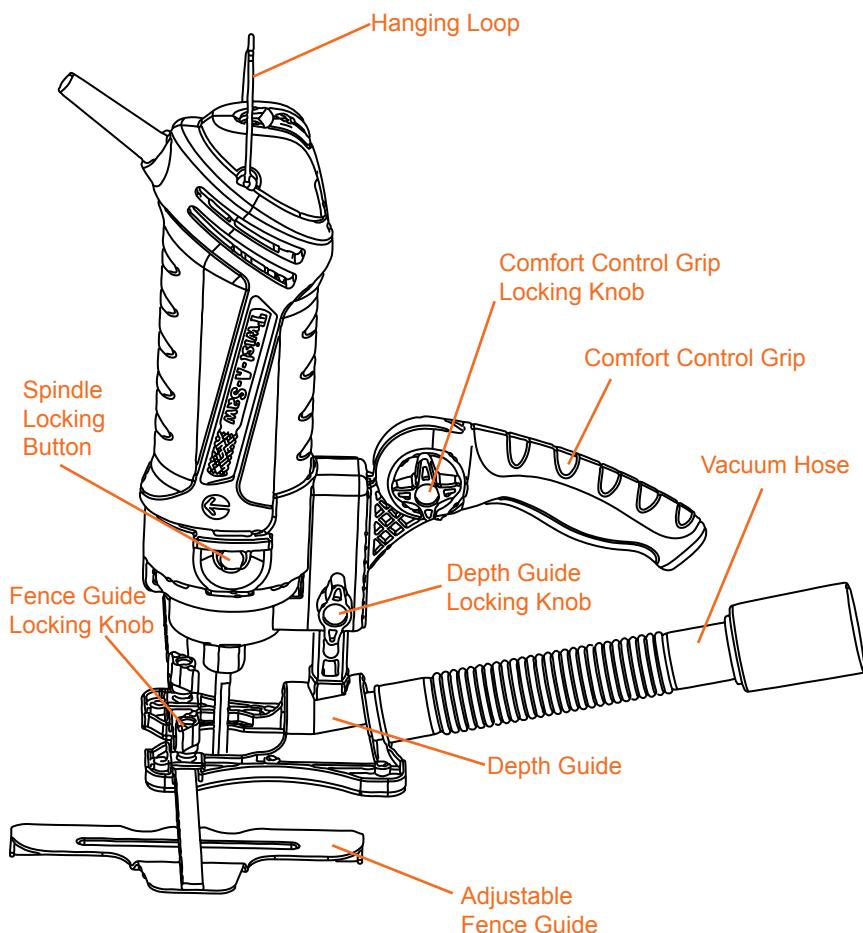
This Device complies with part 15 of the FCC Rules, Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

What's included

Parts of the Twist-A-Saw™

The following diagrams show the labelled parts of the Twist-A-Saw™ rotary tool, Multi-Purpose Handle and Twist-A-Flex™ rotary tool attachment.

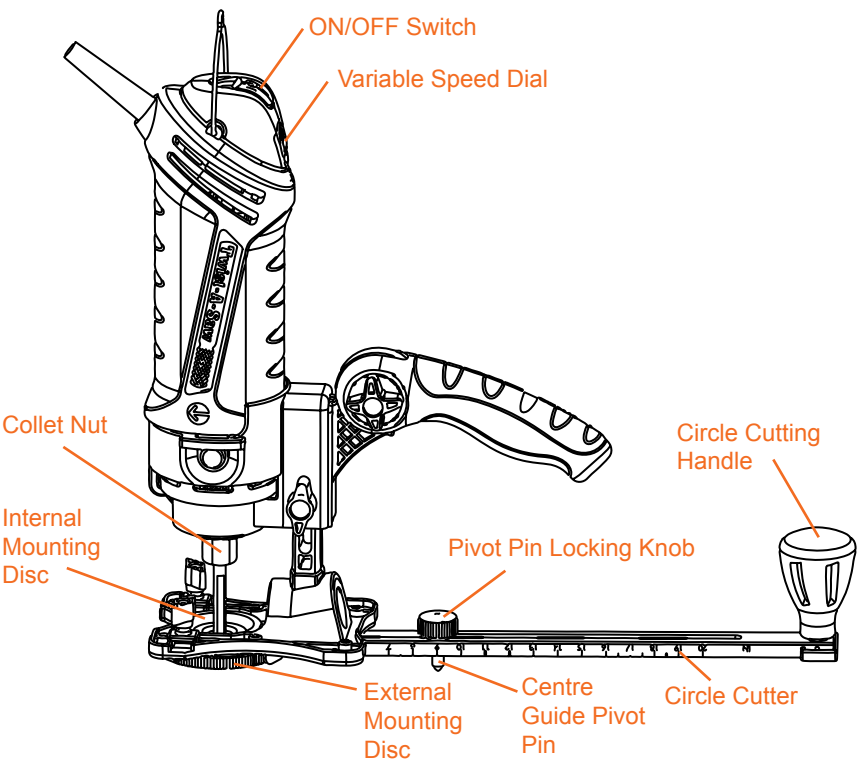
Twist-A-Saw™ rotary tool and Multi-Purpose Handle



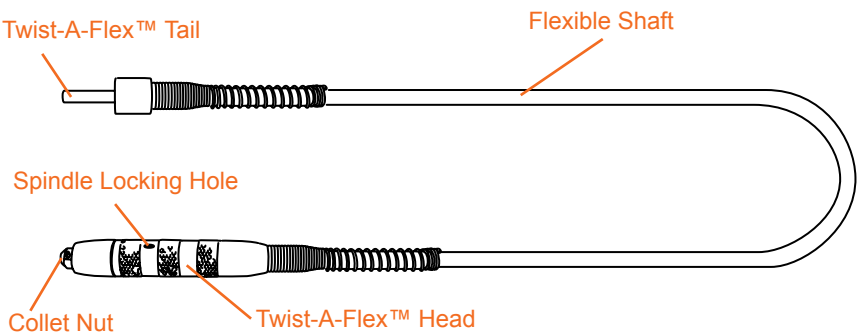
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What's included

Twist-A-Saw™ Circle Cutter



Twist-A-Flex™ rotary tool attachment



Setting up

Which parts do I need?

Before you set up the Twist-A-Saw™, you must first determine which components you need for your task.

Part	Description
Twist-A-Saw™ rotary tool	The Twist-A-Saw™ contains the motor, so this will always be used. The cutting bits are secured to the Twist-A-Saw™ with the collet and the collet nut .
Twist-A-Saw™ Multi-Purpose Handle with Depth Guide and Fence Guide	<p>Use the Multi-Purpose Handle with the Twist-A-Saw™ for a secure grip. Use one hand on the Twist-A-Saw™ Multi-Purpose Handle and the other hand on the Twist-A-Saw™ rotary tool. It keeps the tool square with the work surface.</p> <p>The Depth Guide is used to determine how far the cutting bits protrude from the Twist-A-Saw™.</p> <p>The Fence Guide allows you to cut in straight lines relative to an edge.</p>
Twist-A-Saw™ Circle Cutter	The Circle Cutter allows you to cut precise circles.
Twist-A-Saw™ Vacuum Hose	The Vacuum Hose connects your vacuum cleaner to the Twist-A-Saw™, ensuring dust is sucked directly into the vacuum for your safety.
Twist-A-Flex™ rotary tool attachment	The Twist-A-Flex™ is a long flexible shaft that extends from the Twist-A-Saw™ to the rotary tool head. The cutting bits are attached to the rotary tool head, which you can hold in your hand, allowing you greater control for fine tasks. It should only be used with smaller cutters.

Setting up

Changing the collets

The cutting bits for Twist-A-Saw™ are secured with the collet nut and collet.

There are three sizes of collet depending on which cutting bits you are attaching:

- ✓ The Ø 6.35mm (Ø 1/4") collet secures the Ø 6.35mm (Ø 1/4") drywall/ plasterboard bit and small router bits.
- ✓ The Ø 3.2mm (Ø 1/8") collet secures the Ø 3.2mm (Ø 1/8") cutting bits.
- ✓ The Ø 4.76mm (Ø 3/16") collet secures the Ø 4.76mm (Ø 3/16") cutting bits.

Note: Ø is the symbol for 'diameter'.

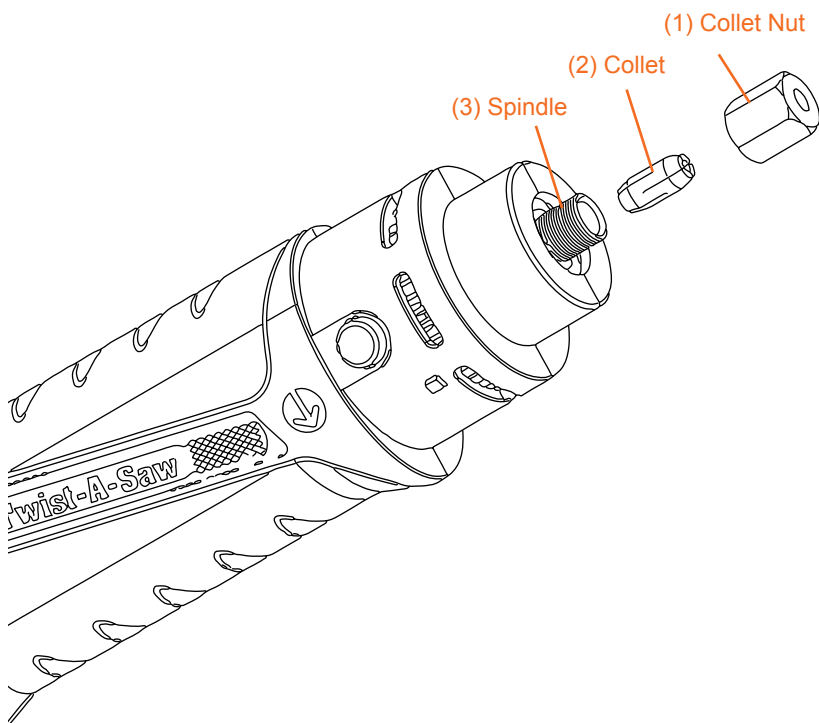
Follow the steps below to change the collets on your Twist-A-Saw™.

Part	Action
1	Remove any bits from the Twist-A-Saw™, if applicable. Refer to Installing cutting bits on page 17.
2	Turn the collet nut (1) counter-clockwise and remove it from the spindle (3).
3	<p>Remove the collet (2) from the spindle and insert the new collet.</p> <p>Note: As each collet is the same on both ends, either end can be inserted into the spindle.</p>
4	<p>Replace the collet nut and lightly tighten by hand.</p> <p>Note: Tightening the collet nut without a bit in the collet will make the collet diameter smaller, which will make installing bits difficult. Leave the collet nut loose when storing Twist-A-Saw™ with no bit installed.</p>

Continued on next page...

Setting up

Changing the collets



Setting up

Installing cutting bits

Follow the steps below to change the cutting bits on your Twist-A-Saw™.

Warning!

Cutting bits and router bits are extremely sharp. Handle with care.

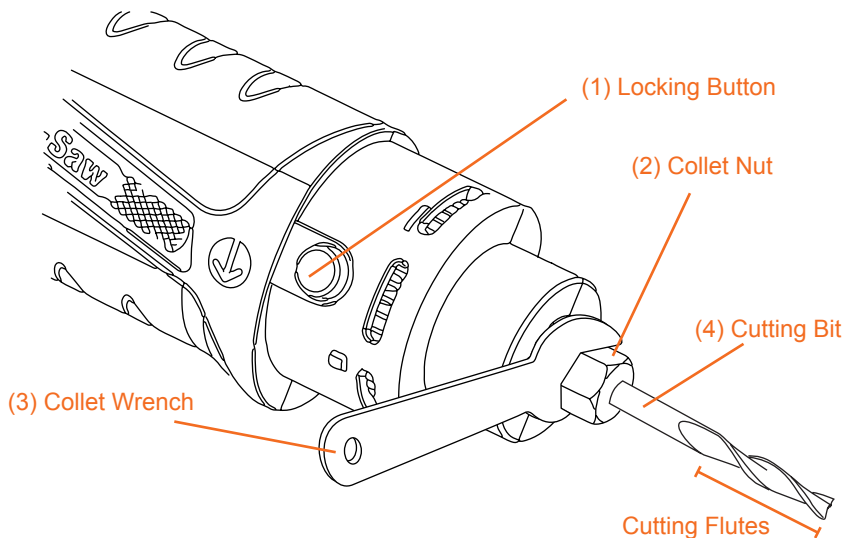
Part	Action
1	Remove plastic coating on cutting bit, if applicable.
2	Press on the spindle locking button (1). Rotate the collet nut (2) until the spindle locking button clicks into place. This prevents the spindle from turning.
3	Press down on the spindle locking button, and use the Ø 16mm (Ø 5/8") collet wrench (3) to turn the collet nut counter-clockwise. Loosen the collet nut several turns.
4	Remove existing bit if one is already in the collet.
5	<p>Insert the new cutting bit (4) fully into the collet, then pull it back between 1mm (1/32") and 3mm (1/8") to create an air space between the motor shaft and the bit. This helps protect the bit from overheating.</p> <p>Note: If the shank of the bit being installed is a different size to the bit being removed, install the correct collet. Refer to Changing the collets on page 15.</p>

Continued on next page...

Setting up

Installing cutting bits

Part	Action
6	Ensure the flutes (spirals) of the bit are fully visible outside the collet. Tightening the collet on the flutes can lead to broken bits and possible injury.
7	Once the bit is correctly placed in the collet, press down on the spindle locking button. Tighten the collet nut clockwise by hand as far as possible.
8	Use the Ø 16mm (Ø 5/8") collet wrench to tighten the collet nut securely.



Setting up

Attaching the Multi-Purpose Handle

Always use the Multi-Purpose Handle when operating your Twist-A-Saw™. Because Twist-A-Saw™ spins as it cuts it can 'pull' or 'drift' to the left. Operating the Twist-A-Saw™ with two hands combats this, giving you greater control and therefore greater accuracy when cutting.

Follow the steps below to attach the Multi-Purpose Handle to the Twist-A-Saw™.

Warning!

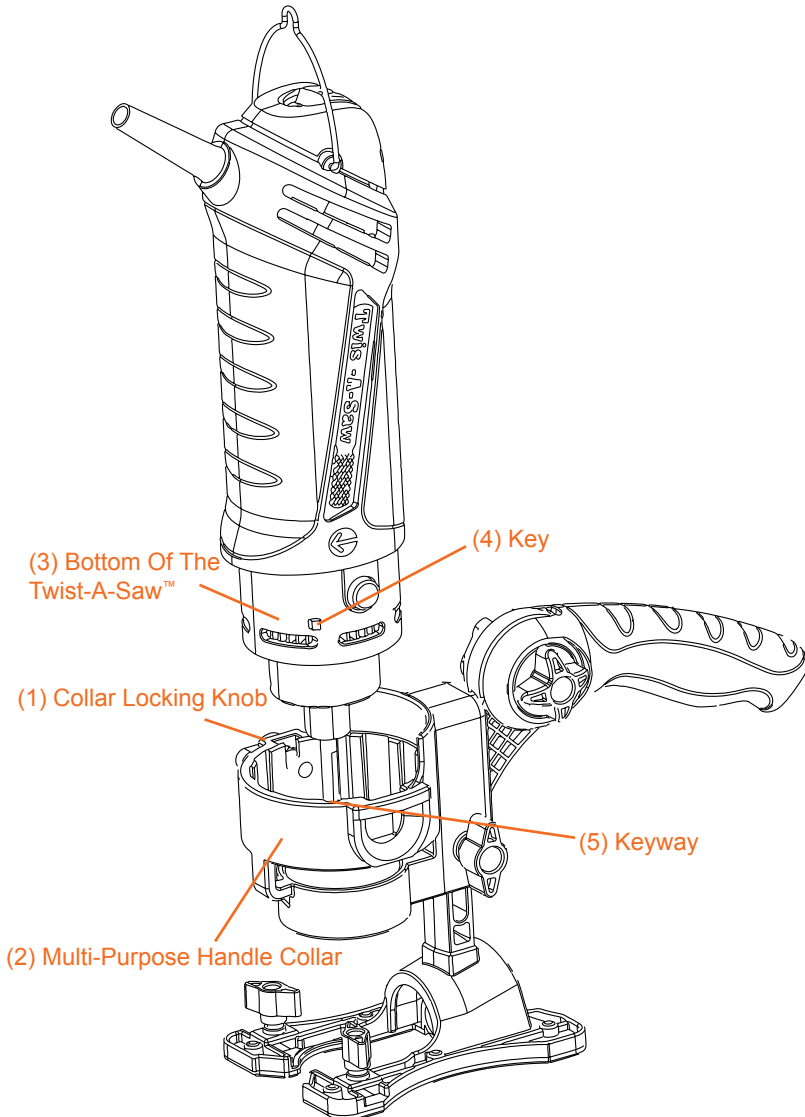
It is extremely dangerous to use the Twist-A-Saw™ without the Multi-Purpose Handle.

Part	Action
1	Loosen the collar locking knob (1).
2	Slide the Multi-Purpose Handle collar (2) onto the bottom of the Twist-A-Saw™ (3).
3	Align the key (4) on the motor housing with the keyway in the collar (5).
4	When the key and keyway are aligned, slide the collar completely onto the Twist-A-Saw™. Note: Push the Multi-Purpose Handle collar onto the Twist-A-Saw™ as far as it will go.
5	Lock the Multi-Purpose Handle collar onto the Twist-A-Saw™ by tightening the collar locking knob.
6	To remove the Multi-Purpose Handle , reverse this process.

Continued on next page...

Setting up

Attaching the Multi-Purpose Handle



Setting up

Adjusting the Comfort Control Grip

The Comfort Control Grip is adjustable so you can position it to where it is best suited for the job at hand.

Position the Comfort Control Grip:

- ✓ horizontally to use Twist-A-Saw™ as a regular jigsaw
- ✓ vertically or on an angle to use Twist-A-Saw™ for freehand cutting, or
- ✓ upside down to provide a more comfortable, practical grip, depending on the job.

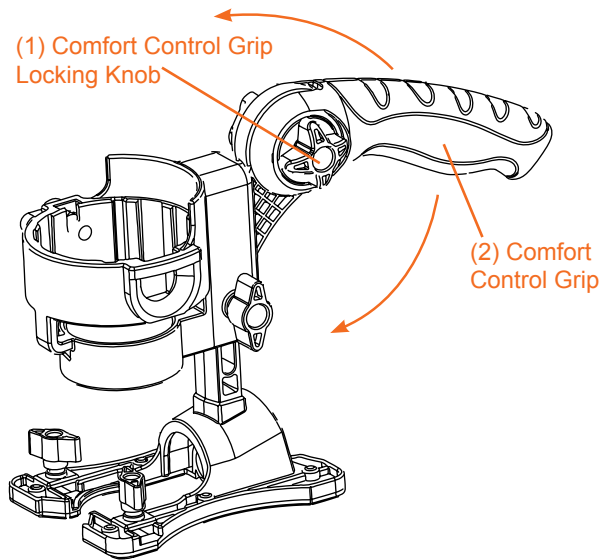
Follow the steps below to adjust the Comfort Control Grip.

Part	Action
1	Loosen the Comfort Control Grip locking knob (1) until you can move the Comfort Control Grip up or down (2).
2	Adjust the Comfort Control Grip to the desired position.
3	Tighten the Comfort Control Grip locking knob.

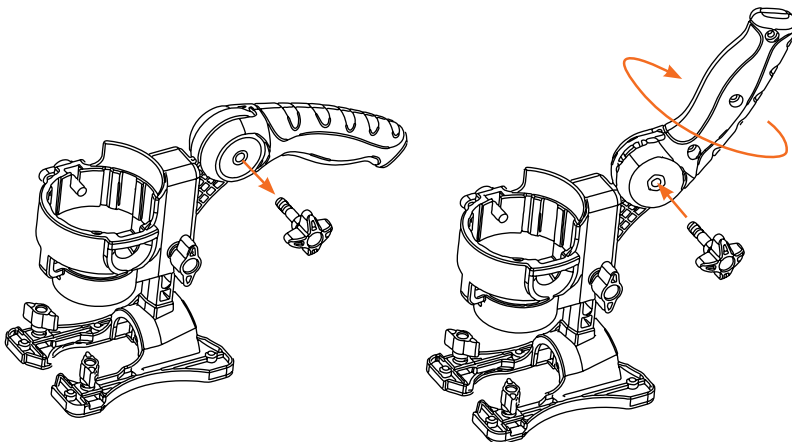
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Setting up

Adjusting the Comfort Control Grip



Adjusting the Comfort Control Grip angle



Setting up

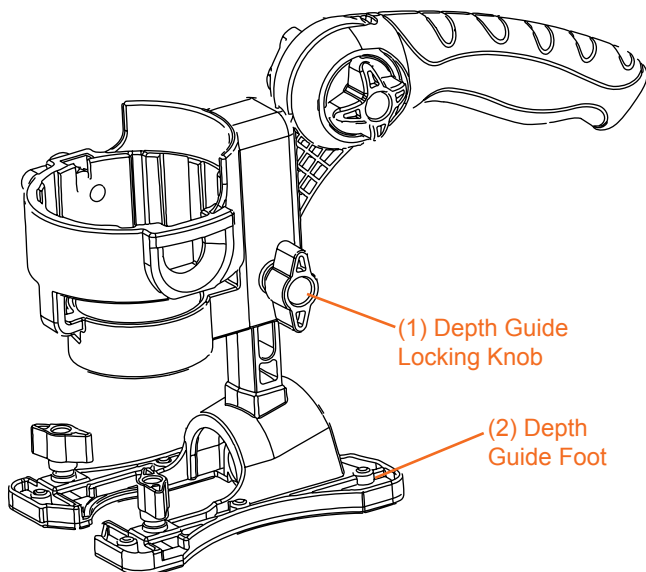
Adjusting the Depth Guide

The cutting bit should always extend past the depth guide foot by 4mm (3/16") more than the thickness of the material being cut.

Example: If you were to cut 10mm (3/8") plasterboard, the cutting bit should extend 14mm (9/16") past the bottom of the depth guide foot, and therefore 4mm (3/16") through the 10mm (3/8") plasterboard.

Follow the steps below to adjust the depth guide.

Part	Action
1	Loosen the Depth Guide locking knob (1). Slide the Depth Guide foot (2) up or down to set the desired depth.
2	Tighten the Depth Guide locking knob securely.
3	Re-check the bit depth before cutting. Ensure both the bit and the collet are securely fastened.



Setting up

Attaching the Circle Cutter

Follow the steps below to attach the Circle Cutter.

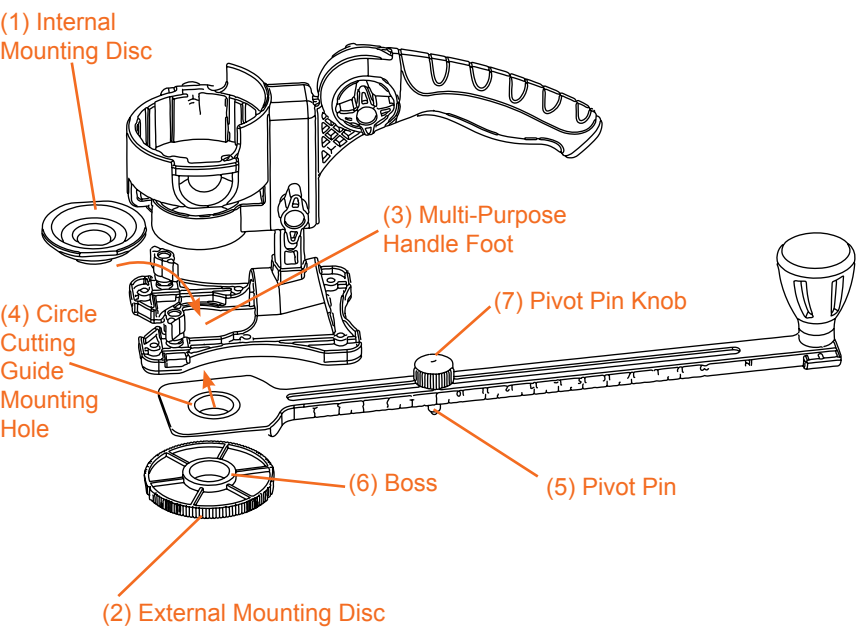
Part	Action
1	Fit the Multi-Purpose Handle. Refer to Attaching the Multi-Purpose Handle on page 19.
2	Adjust the Depth Guide depth. Refer to Adjusting the Depth Guide on page 23.
3	Unscrew the internal mounting disc (1) from the external mounting disc (2).
4	Place the internal mounting disc into the Multi-Purpose Handle foot (3). Note: Make sure the scallops of the internal mounting disc are seated correctly in the scallops of the Multi-Purpose Handle foot.
5	Place the circle cutting guide mounting hole (4) over the treaded portion of the internal mounting disc insert. Note: Make sure the pivot pin (5) is pointing downwards.
6	Attach the external mounting disc to the internal mounting disc. Hand-tighten. Note: Make sure the boss (6) of the external mounting disc goes through and sits firmly in the mounting hole. Hand-tighten only. Do not over-tighten.

Continued on next page...

Setting up

Attaching the Circle Cutter

Part	Action
7	Loosen the pivot pin knob (7). Slide the knob to set the circle radius and re-tighten.
8	Insert appropriate cutting bit in the collet and tighten. Refer to Installing cutting bits on page 17. Note: To check the circle radius setting, measure from the pivot pin to the outside of the bit.

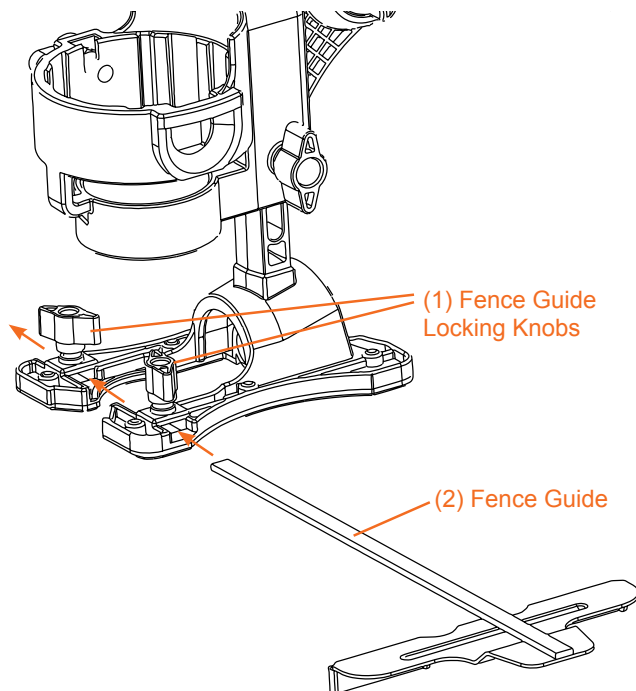


Setting up

Attaching the Fence Guide

Follow the steps below to attach the Fence Guide.

Part	Action
1	Loosen the adjustable Fence Guide locking knobs (1). There are two: one on each side of the Multi-Purpose Handle foot.
2	Slide the adjustable Fence Guide (2) into the Multi-Purpose Handle foot.
3	Set the adjustable Fence Guide depth and tighten the locking knobs.

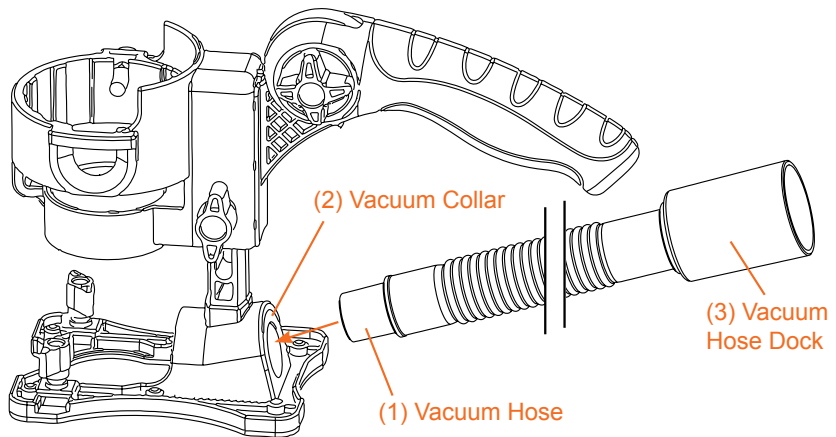


Setting up

Installing the Vacuum Hose

Follow the steps below to install the Vacuum Hose attachment.

Part	Action
1	Insert the Vacuum Hose (1) into the vacuum collar (2).
2	<p>Insert the nozzle of your vacuum cleaner into the Twist-A-Saw™ vacuum hose dock (3).</p> <p>Note: If your vacuum cleaner nozzle does not match the Twist-A-Saw™ vacuum hose dock, use a piece of irrigation hose as an adapter.</p>

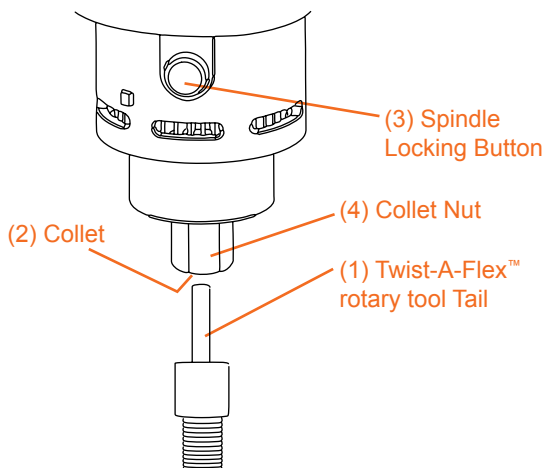


Setting up

Attaching the Twist-A-Flex™

Follow the steps below to attach the Twist-A-Flex™ rotary tool attachment.

Part	Action
1	Switch Twist-A-Saw™ OFF and unplug it from the power source. Refer to Turning the Twist-A-Saw™ on and off on page 30.
2	Remove existing bit if one is already in Twist-A-Saw™ on page 17.
3	Ensure the Ø 6.35mm (Ø 1/4") collet is in the spindle. Refer to Changing the collets on page 15.
4	Insert the Twist-A-Flex™ rotary tool tail (1) into the collet (2).
5	When the Twist-A-Flex™ rotary tool tail is correctly placed in the collet, press in the spindle locking button (3). Tighten the collet nut (4) clockwise by hand as far as possible.
6	Using the Ø 16mm (Ø 5/8") collet wrench, securely tighten the collet nut. DO NOT use excessive force when tightening.

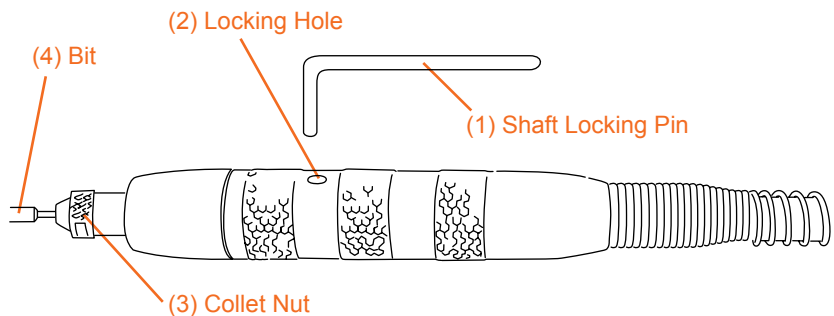


Setting up

Installing a bit in the Twist-A-Flex™

Follow the steps below to install a bit in the Twist-A-Flex™ rotary tool attachment.

Part	Action
1	Insert the shaft locking pin (1) into the locking hole (2) in the Twist-A-Flex™ rotary tool head. This is to prevent the spindle from turning. Note: Repeat when unfastening.
2	Rotate the collet nut (3) with your fingers until the locking pin slips fully in place.
3	Loosen the collet nut.
4	Insert the bit (4) into the collet and tighten the collet nut with the Ø 10mm (Ø 3/8") collet wrench. Note: The Twist-A-Flex™ rotary tool has a Ø 4.76mm (Ø 3/16") collet that will take all accessories with a Ø 4.76mm (Ø 3/16") shank.
5	Rotate the collet by hand to make sure the installed bit does not wobble.

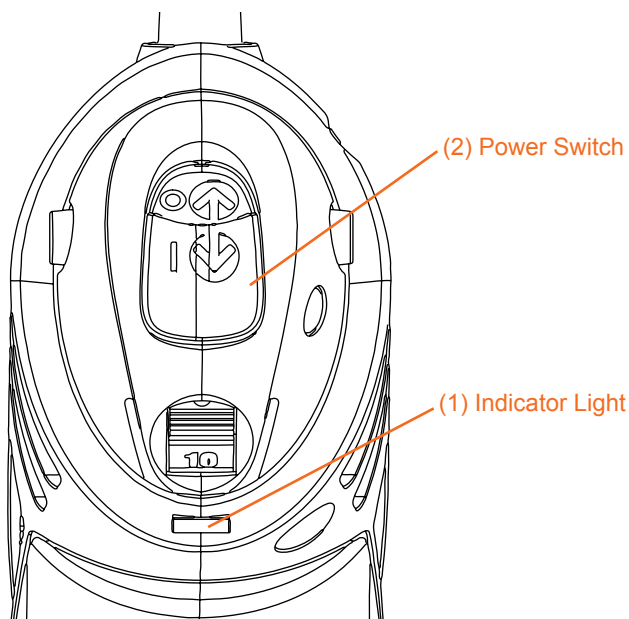


Using the Twist-A-Saw™

Turning the Twist-A-Saw™ on and off

Follow the steps below to turn your Twist-A-Saw™ on and off.

Part	Action
1	When Twist-A-Saw™ is connected to mains power the power indicator light (1) glows GREEN.
2	<p>The ON/OFF power switch (2) is located on the top of Twist-A-Saw™. To turn Twist-A-Saw™:</p> <p>ON, push the switch out.</p> <p>OFF, push the switch in.</p> <p>Note: Twist-A-Saw™ has a soft start power switch for safety and control.</p>



Continued on next page...

Using the Twist-A-Saw™

Turning the Twist-A-Saw™ on and off

If Twist-A-Saw™ won't turn on

If the power indicator light turns red or starts flashing, or if the Twist-A-Saw™ will not start, refer to **Tips and troubleshooting** on page 43.

Using the Twist-A-Saw™

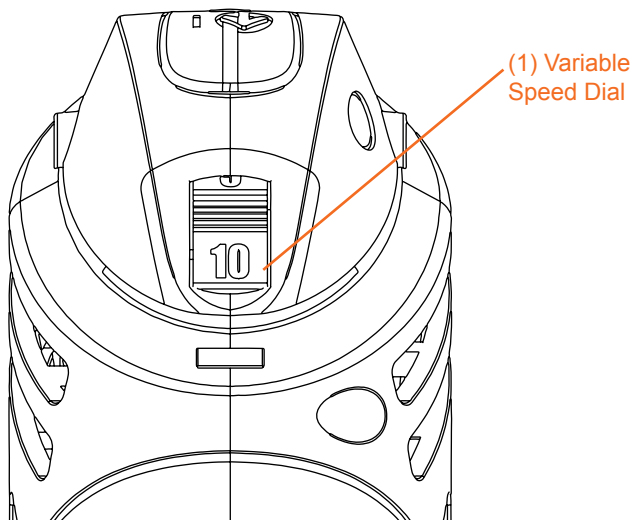
Changing the Variable Speed Dial

The Variable Speed Dial lets you change the speed that the bit turns in increments of 5,000 revolutions per minute (/min). The lowest setting is 5 (5,000/min) and the highest setting is 25 (25,000/min).

Follow the steps below to change the Variable Speed Dial.

Part	Action
1	To operate Twist-A-Saw™ at its lowest speed, turn the Variable Speed Dial (1) to 5.
2	To increase Twist-A-Saw™ speed, turn the Variable Speed Dial toward the ON/OFF switch. Maximum speed will be achieved at 25.

Tip: The harder the material, the slower the speed. Use slow speed for hardwood and hard materials. Use high speed for metal drill bits and grinding accessories.



Using the Twist-A-Saw™

Making practice cuts

Practice cuts can help avoid costly and disappointing mistakes. Before undertaking your first Twist-A-Saw™ project, practice cut on scrap material that is the same as the material you will use for that project. This will help you select the speed that will produce the smoothest cut.

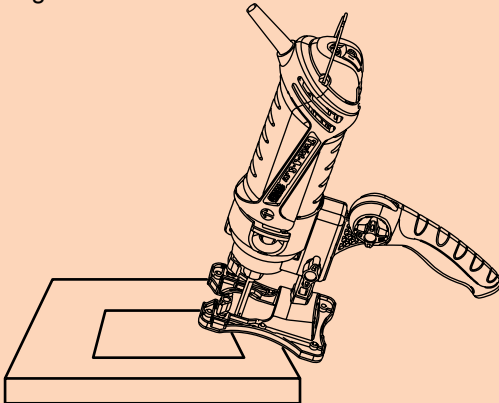
Follow the steps below to make a practice cut with your Twist-A-Saw™.

Part	Action
1	On scrap material, draw a guide or pattern similar to your intended project.
2	Fit the Multi-Purpose Handle. Refer to Attaching the Multi-Purpose Handle on page 19.
3	Fit the cutting bit into the collet. Refer to Installing cutting bits on page 17.
4	Adjust the Depth Guide depth. Refer to Adjusting the Depth Guide on page 23.
5	Set the Variable Speed Dial to the appropriate speed. Refer to Changing the Variable Speed Dial on page 32.

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Using the Twist-A-Saw™

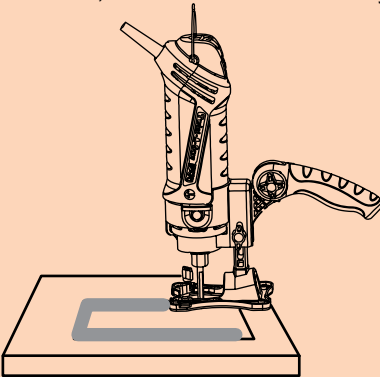
Making practice cuts

Part	Action
6	<p>Hold Twist-A-Saw™ firmly with both hands. Place the edge of the Multi-Purpose Handle foot on the workpiece at a 45° angle.</p>  <p>Note: DO NOT let the bit touch the workpiece until the power switch is ON and Twist-A-Saw™ is up to full speed.</p>
7	<p>Turn Twist-A-Saw™ ON.</p> <div><p>Warning!</p><p>Make sure you are holding Twist-A-Saw™ firmly with two hands before turning the power switch ON. The starting torque will cause Twist-A-Saw™ to twist or jump to the left.</p></div>
8	<p>When the motor is running at full speed slowly tip Twist-A-Saw™ into an upright position, and let the bit plunge cut into the workpiece.</p>

Continued on next page...

Using the Twist-A-Saw™

Making practice cuts

Part	Action
9	<p>When the bit has cut through the workpiece, slowly move Twist-A-Saw™ in a clockwise direction. Let Twist-A-Saw™ do the work, and use slow and steady pressure as you cut.</p>  <p>Note: Always cut in a clockwise direction, except when cutting drywall/plasterboard.</p>
10	<p>When you have finished the cut, switch the Twist-A-Saw™ off. Wait until Twist-A-Saw™ has come to a complete stop and then remove it from the workpiece.</p>

Using the Twist-A-Saw™

Cutting outlet openings in drywall/plasterboard

Follow the steps below to cut outlet openings in drywall/plasterboard with your Twist-A-Saw™.

Warning!

DO NOT make cut-outs around any opening or fixture that has live electrical wires, or any wall that may have electrical wiring behind it.

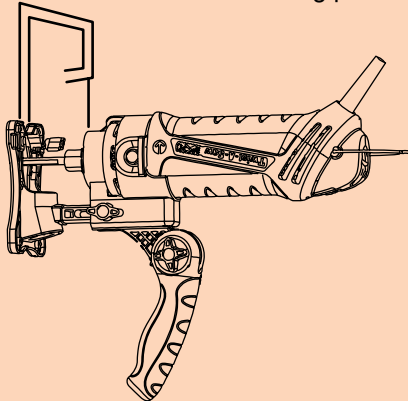
Make sure circuit breakers have been turned off or fuses removed to disconnect the electrical circuit in the area of work.

Part	Action
1	<p>Before installing drywall/plasterboard:</p> <p>Push any wires back into outlet boxes as far as possible to avoid cutting them when cutting the opening with Twist-A-Saw™.</p> <p>On the side facing you, mark the centre of the outlet on the sheet.</p>
2	<p>Fit the Multi-Purpose Handle and cutting bit.</p> <p>Refer to Attaching the Multi-Purpose Handle on page 19 and Installing cutting bits on page 17.</p>
3	<p>Set the cutting bit depth so that it will extend 4mm past the thickness of the drywall/plasterboard.</p> <p>Refer to Adjusting the Depth Guide on page 23.</p>
4	<p>Hold Twist-A-Saw™ firmly with both hands and switch it ON.</p> <p>Refer to Turning the Twist-A-Saw™ on and off on page 30.</p>

Continued on next page...

Using the Twist-A-Saw™

Cutting outlet openings in drywall/plasterboard

Part	Action
5	<p>When running at full speed, plunge the bit through the drywall/plasterboard on the mark showing the centre of the outlet box. Follow the cutting pattern shown below.</p> 
6	<p>Slowly move the bit to the right until you feel and hear the bit touch the inside edge of the outlet box.</p>
7	<p>Tracing the inside edge of the box, move Twist-A-Saw™ upward. Maintain light pressure on the box edge. As you feel the bit reach the top right corner, move Twist-A-Saw™ to the left.</p>
8	<p>Maintain light pressure on the box edge, and continue to trace counter-clockwise around the box until the shape is cut.</p>
9	<p>When you have finished the cut, switch Twist-A-Saw™ off. Wait until Twist-A-Saw™ has come to a complete stop and then remove it from the workpiece.</p>

Using the Twist-A-Saw™

Using the Circle Cutter

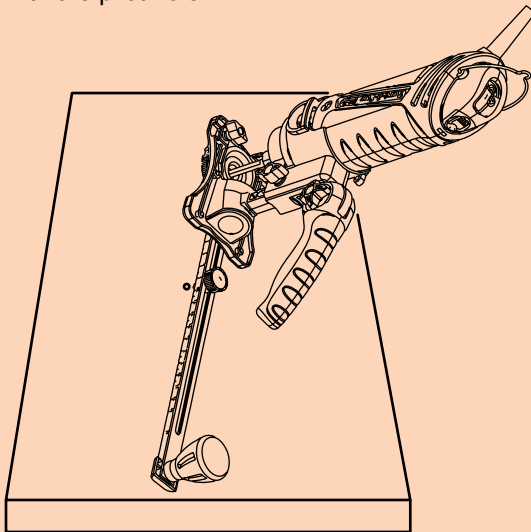
Follow the steps below to use the Circle Cutter to cut circles with your Twist-A-Saw™.

Part	Action
1	Mark the centre of the circle to be cut. Drill a Ø 4.76mm (Ø 3/16") pilot hole for the centre guide pivot pin.
2	Adjust the cutting bit so that it will extend 4mm (3/16") past the thickness of the workpiece. Refer to Adjusting the Depth Guide on page 23.
3	Loosen the pivot pin locking knob. Slide the locking knob to set the circle radius and re-tighten. Note: Re-check the circle radius setting by measuring from the centre guide pivot pin to the outside of the bit. Refer to Attaching the Circle Cutter on page 24.

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Using the Twist-A-Saw™

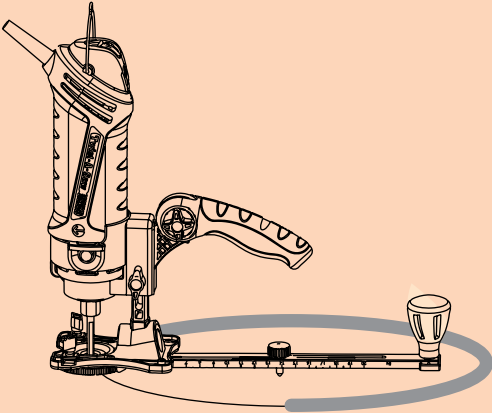
Using the Circle Cutter

Part	Action
4	<p>Place the edge of the Multi-Purpose Handle foot on the workpiece at a 45° angle. Align the centre guide pivot pin with the pilot hole.</p> 
5	<p>Switch Twist-A-Saw™ ON on page 30.</p> <p>Note: DO NOT let the bit touch the workpiece until Twist-A-Saw™ is up to full speed.</p>
6	<p>When the motor is running at full speed slowly tip Twist-A-Saw™ into an upright position and let the bit cut into the workpiece.</p> <p>Make sure the pivot pin enters and remains in the pilot hole.</p>

Continued on next page...

Using the Twist-A-Saw™

Using the Circle Cutter

Part	Action
7	<p>When the bit has cut through the workpiece, slowly move Twist-A-Saw™ in a clockwise direction. Let Twist-A-Saw™ do the work, and use slow and steady pressure as you cut.</p>  A line drawing of the Twist-A-Saw tool in its circle-cutting configuration. The tool is positioned vertically, with its handle and base resting on a horizontal workpiece. A circular path is indicated by a blue line around the tool's base, showing the direction of rotation. A small circular guide pin is visible on the workpiece, serving as the pivot point for the circle cut.
8	<p>Cut the circle, keeping Twist-A-Saw™ upright and the Multi-Purpose Handle foot flat on the material. Carefully rotate the Circle Cutter handle and Twist-A-Saw™ around the centre guide pivot pin.</p>
9	<p>When you have finished the cut, switch Twist-A-Saw™ off. Wait until Twist-A-Saw™ has come to a complete stop and then remove it from the workpiece.</p>

Using the Twist-A-Saw™

Using the Twist-A-Flex™ rotary tool attachment

Follow the steps below to use the Twist-A-Flex™ rotary tool attachment on your Twist-A-Saw™.

Warning!

Always hold on to the Twist-A-Flex™ rotary tool head when it is turned on. Failure to do so means the Twist-A-Flex™ can thrash about and may cause serious injury.

Part	Action
1	Fit the correct cutting bit for your task into the collet. Refer to Installing cutting bits on page 17.
2	Hold on to the rotary tool head, being careful not to touch the bit, and turn the Twist-A-Saw™ on. Refer to Turning the Twist-A-Saw™ on and off on page 30.
3	Hold the Twist-A-Flex™ like a pencil to etch, grind or polish the workpiece. Note: When etching and engraving, etch with the side of the bit, not the tip. Note: If you can, avoid laying Twist-A-Saw™ on the workbench while working with the Twist-A-Flex™. Use the hanging loop on the top of Twist-A-Saw™ to hang Twist-A-Saw™ higher than your workpiece. This enables a straighter Twist-A-Flex™ rotary tool shaft, which means it will operate more efficiently. You also lessen the chance of the shaft overheating.

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Using the Twist-A-Saw™

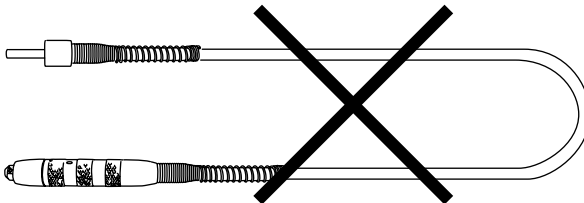
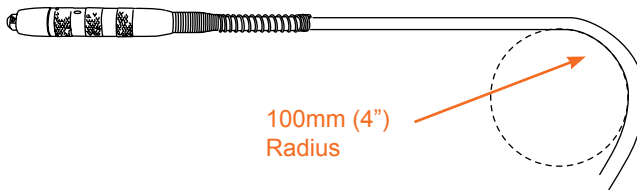
Using the Twist-A-Flex™ rotary tool attachment

Warning!

Never bend the Twist-A-Flex™ rotary tool shaft to a radius of less than Ø 100mm (Ø 4") when operating, otherwise overheating can occur.

Whenever possible, store the Twist-A-Flex™ without bends.

Never bend the head of the Twist-A-Flex™ rotary tool excessively. If overheating occurs, stop immediately.



Tips and troubleshooting

Choosing the right speed

- ✓ Remember, speed is relevant to what you are cutting.
- ✓ It's easy to increase speed, so if in doubt, start slow.
- ✓ Using the right speed will protect and prolong the life of Twist-A-Saw™ bits. Applying too much pressure or speed will raise the temperature of the bit and shorten its life.
- ✓ Listen to Twist-A-Saw™ and how it is coping with the load when deciding to change speed.
- ✓ The Twist-A-Bits workshop guide lists the recommended speeds for each bit. These are guides only and must be adjusted according to the characteristics of the material being cut.

Cutting tips

- ✓ Always use two hands on Twist-A-Saw™ for greater control and to prevent the bit 'popping out' of the workpiece.
- ✓ The depth of the cut must never exceed the length of the cutting flutes. Refer to **Cutting Flute** diagram on page 18.
- ✓ When cutting a hole in vertical material, always start and end the cut at the top of the hole, not at the bottom. This ensures that the cut-out will fall away from the rotating bit.
- ✓ Always cut in a clockwise direction, except when cutting drywall/ plasterboard. If you cut in a counter-clockwise direction, Twist-A-Saw™ can 'run away' from you.
- ✓ Because the bit rotates, there is a slight pull to the left when cutting. Natural differences in wood structure can cause the bit to 'drift'. If too much pressure is applied, this effect will be increased.
- ✓ When glass etching with the Twist-A-Flex™, consider resting the item on a wheat bag to provide a steady work platform.

Tips and troubleshooting

Power indicator light

If the power indicator light turns red or starts flashing, use the table below to determine what to do next.

Power indicator light	Reason	How to fix
Power indicator light flashes red and green	Spindle has become locked or overloaded	Turn the power switch off, unplug the power cord from the power outlet, remove the Twist-A-Saw™ from the work piece and let the Twist-A-Saw™ cool down before turning back on.
Power indicator light turns red	Vents are blocked or motor has become overheated	Turn the power switch off, unplug the power cord from the power outlet and remove the Twist-A-Saw™ from the workpiece. Ensure vents are clear and let the Twist-A-Saw™ cool down for half an hour before turning back on.
Power indicator light flashes green	Switch was accidentally left ON when Twist-A-Saw™ was plugged into electrical socket	Turn the power switch off and remove Twist-A-Saw™ from the workpiece, then turn the switch back on.

Looking after your Twist-A-Saw™

Cleaning

- ✓ Remove accumulated dust and debris regularly using a soft DRY brush.
- ✓ Do Not use any liquids or flammable substances to clean your Twist-A-Saw™. These substances may damage the Twist-A-Saw™. Use a clean cloth to remove dirt, dust, oil, grease, etc.
- ✓ Use safety goggles when using an air jet to blow dust out of Twist-A-Saw™. Keep air vents clean and unobstructed to allow maximum airflow through the tool.

Storage

- ✓ Always store Twist-A-Saw™ in a safe, dry place. Keep the motor ventilation slots and controls clear of dust and other debris.

Servicing and repairs

- ✓ When servicing, use only identical replacement parts. The use of any other part may create a hazard or cause damage to the product.
- ✓ DO NOT attempt to modify Twist-A-Saw™ or create accessories. Any such alteration, modification or unintended use is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.
- ✓ All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

Continued on next page...

Looking after your Twist-A-Saw™

Servicing and repairs

- ✓ Remove the power cord from the power socket before carrying out any servicing, adjustments or maintenance to Twist-A-Saw™ or attached accessories.
- ✓ There are no user-serviceable parts in Twist-A-Saw™.
- ✓ If the power supply cord is damaged, you must have it replaced immediately by the manufacturer or an approved service agent.
- ✓ Sparks may occasionally be seen through the ventilation slots. This is normal and will not damage your power tool or cause injury to you.

Warranty

Two (2) year limited replacement warranty statement

If your product (the “Product”) becomes defective due to faulty material or workmanship within a period of 2 years from the date of purchase, we warrant to do the following:

We will replace the Product with a new product, free of charge, or repair the product at our cost, at our discretion.

Your warranty is subject to the following conditions:

- **DO NOT** operate the Product with a damaged plug or cord, or if the unit has been dropped, damaged or dropped in water. To avoid the risk of electric shock, do not disassemble or attempt to repair the appliance on your own. If the supply cord is damaged, **it must be replaced by a qualified electrician in order to avoid a hazard.** Incorrect re-assembly or repair can cause a risk of electric shock or injury to persons when the appliance is used.
- The item has not been misused, abused, neglected, altered, modified or repaired by anyone.
- The item has been subjected to normal wear and tear.
- The item has not been used for trade, professional or hire purposes.
- The item has not sustained damage.

Your warranty does not cover;

Your warranty is subject to the following conditions:

- Components that are subject to natural wear and tear caused by normal use in accordance with operating instructions.
- Unauthorized or improper maintenance or handling or overload.
- Accessories that are supplied with this item.

This warranty applies only to the original purchaser and may not be transferred.

Replacement items will be covered by the limited warranty for the balance of the warranty period from the date of the original purchase.

Continued on next page...

Warranty

For guarantee claims, you will need to submit a proof of purchase in the form of a valid receipt that displays date and place of purchase.

Please note: Only the defective product or parts returned to place of purchase will be replaced under this warranty.

Dispute Resolution:

In the unlikely event that you have a dispute with us regarding the Product or this Limited Warranty, you agree that any claim or dispute in connection with the Product or this Limited Warranty shall be resolved in a cost effective manner through binding arbitration. The arbitration shall be instated through an established alternative dispute resolution provider mutually agreed upon by the parties.

If the foregoing arbitration clause does not apply for any reason, you agree to submit to the personal jurisdiction of the state courts located within San Diego County, California and the federal courts in the Southern District of California for the purpose of litigating all such claims or disputes, which courts shall have exclusive jurisdiction of such claims or disputes. Notwithstanding the foregoing, we may seek injunctive or other equitable relief to protect its intellectual property rights in any court of competent jurisdiction.

Contact: To receive this warranty, please contact customer care on the phone number on next page.

How State Law Applies: This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

This Limited Warranty shall be governed by the laws of the State of California without giving effect to any conflict of laws principles that may provide the application of the law of another jurisdiction.

Continued on next page...

Warranty

Australia Contact

Brand Developers Aust Pty Ltd
461 Plummer Street,
Port Melbourne, VIC 3207
Fax: +61 3 9681 7825
AUST Customer Care: 1800 890 840

New Zealand Contact

Brand Developers Limited
Unit H, 686 Rosebank Road,
Avondale 1026,
Auckland, New Zealand
Private Bag 93204,
Parnell, Auckland 1151
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NZ Customer Care: 0800 002 999

United States Contact

Brand Developers USA, LLC
2440 Clements Ferry Road,
Charleston, South Carolina 29492, USA
USA Customer Care: 1800 200 3111



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