TOLSEN FX FORCE XPRESS

79745
JIG SAW

INSTRUCTION MANUAL **120V~60Hz 6.5A**

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Intertek
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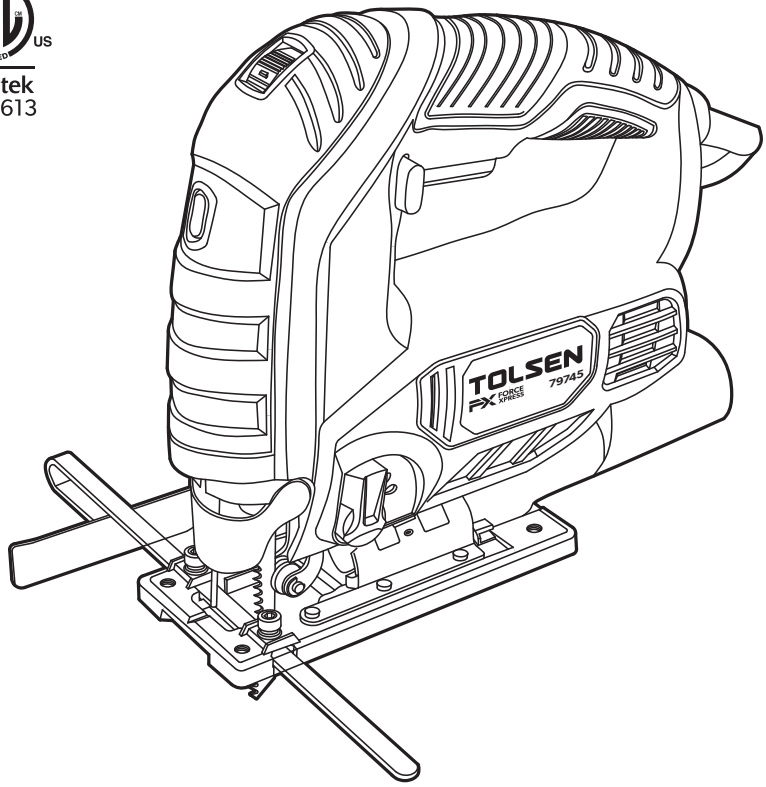

SAVE THIS MANUAL !
You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

IMPORTANT SAFETY INFORMATION

General Power Tool Safety Warnings

⚠ WARNING:

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. 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
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
4. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
5. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
6. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
7. 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. Damaged or entangled cords increase the risk of electric shock.
8. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
9. If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock
10. Grounded tools require a three wire extension cord. Double Insulated tools can use either a two or three wire extension cord.
11. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
12. Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
13. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
14. Remove any adjusting key or wrench before

turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

15. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
16. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
17. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.
18. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
19. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
20. 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.
21. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
22. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
23. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
24. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
25. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation
26. SERVICE AND REPAIRS should be made by qualified repair technicians at an authorized repair center. Improperly repaired tools could cause serious shock or injury.

Jigsaw Safety Warnings

1. Hold power tool by insulated gripping surfaces when performing an operation where cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
2. Use clamps or another practical way to secure and support the work piece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
3. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact TOLSEN Tools for a replacement.
4. Avoid unintentional starting. Prepare to begin work before turning on the tool.
5. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
6. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
7. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
8. This product is not a toy. Keep it out of reach of children.
9. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should: • Avoid operating alone. • Do not use with power switch locked on. • Properly maintain and inspect to avoid electrical shock. • Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
10. WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known to the state of medicine to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are: • Lead from lead-based paints • Crystalline silica from bricks and cement or other masonry products • Arsenic and chromium from chemically treated lumber.
    Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles
11. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use.
Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury. Wear suitable gloves to reduce the vibration effects on the user.
3. Use tools with the lowest vibration when there is a choice.
4. Include vibration-free periods each day of work.
5. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately

SPECIFICATIONS

Electrical Rating	120V~60Hz
Rated current	6.5A
Cutting Power	n_0: 800-3200/min
Stroke Length	3/4"
Max. In Steel	3/8"
Max. In Wood	3"
Footplate Tilt	0-45°, left or right
Blade Type	T-shank

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Note: Symbology

Intertek	Intertek testing services inc.
	Double Insulated
	WARNING mark concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields
	Read the manual before set-up and/or use.
	Faulty and/or discarded electrical or electronic have to be collected all the appropriate recycling locations.

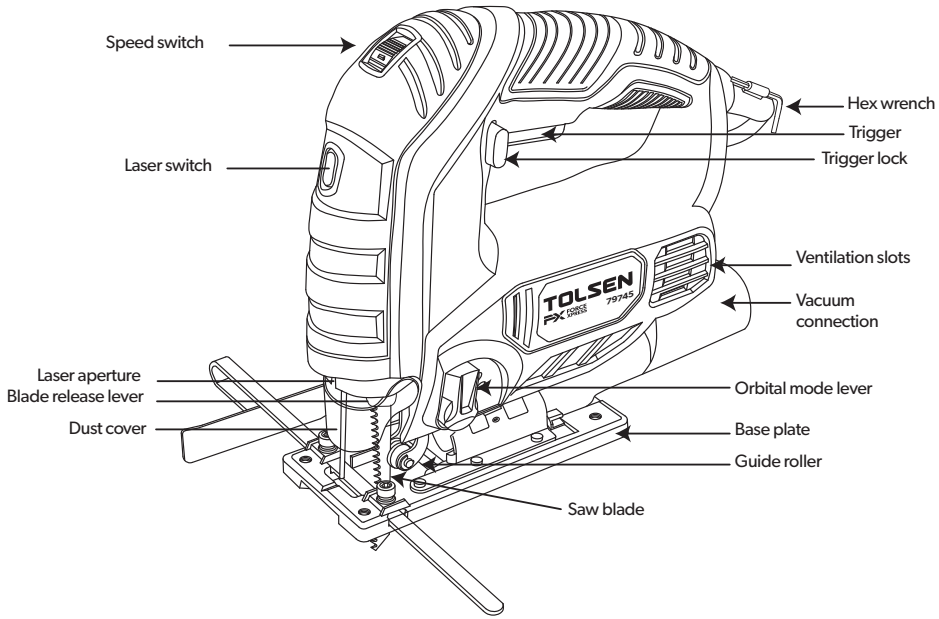
SET UP

Before Use

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

WARNING:
TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.

Functions



Blade Installation

1. Refer to the Chart below to select the proper Saw Blade for the material being cut.

BLADE SELECTION AND SUITABLE SPEED		
Material	**TPI**	**SPEED**
Soft wood	6	6
Hardwood	6	5
Plastic	12	4~6
Aluminum	12	3~6
Steel	24	2~4
Tile	24	1~3
Glass	32	1~3
Leather	(Knife Edge)	4~6
Rubber	(Knife Edge)	4~6

WARNING! Wear ANSI-approved safety goggles and heavy-duty work gloves when changing blade.

2. Once the proper blade (sold separately) is selected, lift the Dust Cover up to access the Blade Release Lever. See Figure 1, right.

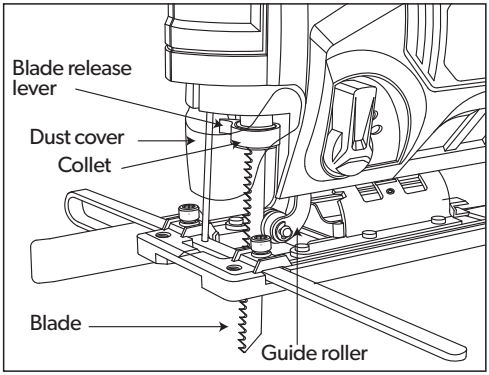


Figure 1

3. Pull Blade Release Lever counterclockwise to open Blade Collet.
4. With the blade teeth facing FORWARD, inset blade into blade holding Collet as far as it will go. WARNING! Make sure blade's back edge is set against the roller guide.
5. Release the blade release lever. Pull on blade until blade Collet snaps blade into place.

⚠ WARNING

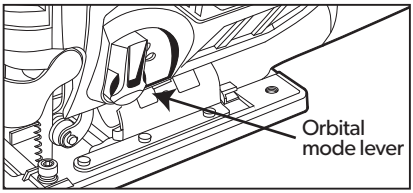
TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before adjusting tool or installing accessories.

Work Piece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
3. Secure loose work pieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be objects, such as utility lines, nearby that will present a hazard while working.

Selecting Cutting Mode

1. The Jigsaw comes with four cutting modes (three cutting settings and 1 straight cutting mode). To change cutting mode, adjust the Orbital Mode Lever (16). See Figure 2, below.

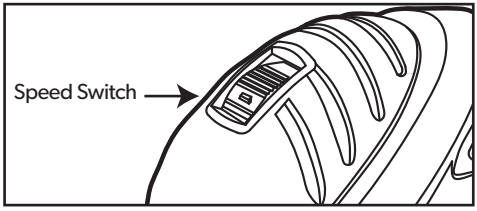


Figue 2

2. The settings are:
   a. o= Straight line cutting (for plastics and mild steel)
   b. I = Small orbit (for aluminum and hard wood)
   c. II = Medium orbit (for wood, plywood and fast cutting of aluminum)
   d. III = Large orbit (for fast cutting wood and plywood)

Adjusting Jigsaw Speed

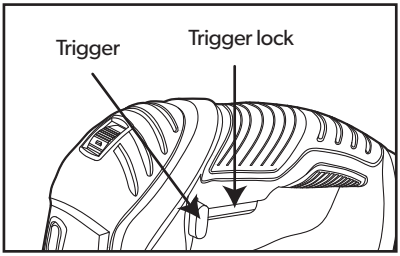
1. The Jigsaw's speed can be adjusted between 800 and 3,200 strokes per minutes.
2. To adjust speed, turn the Speed Switch from 1 (the slowest speed) to 6 (the fastest speed). See Figure 3, below.
3. Use higher speeds to cut work pieces faster.



Figue 3

General Operating Instructions

1. Plug the Power Cord into the nearest 120 volt, grounded, electrical outlet.
2. Position the saw blade of the Jigsaw about 12mm from the beginning cut line on the work piece. Do not allow the saw blade to come in contact with the work piece.
3. Squeeze the Trigger (17) to turn on the Jigsaw. If operating the Jigsaw for an extended period of time, press the Trigger Lock to lock the Trigger in its "ON" position. See Figure 4, right.
4. Allow the Saw Blade to stroke at full speed before slowly feeding it into the work piece.

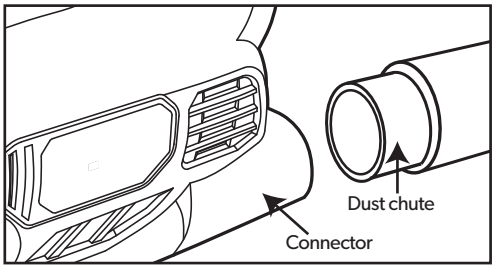


Figue 4

5. Make sure to hold the Jigsaw firmly with both hands to avoid kickback. Then, finish making the cut.

Selecting Cutting Mode

1. The Jigsaw is supplied with a Dust Chute adapter for a vacuum. It is attached to the Dust Chute Connector located at the back end of the housing.
2. To fasten the Dust Chute (sold separately) in place, align the pins on Dust Chute with slots in Connector. Push Dust Chute in and turn clockwise to lock. See Figure 5, below



Figue 5

Bevel and Metal Cutting

1. Use the included Hex Key to loosen the Cap Screw on the bottom of the Base Plate . Tilt the base, allowing for bevel cuts between 0 and 45°.
2. Retighten the Cap Screw once the desired angle is reached.
3. For metal cutting, be sure to use a coolant such as cutting oil during use. Failure to add coolant will lead to greater blade wear.If desired, grease the underside of the work piece in place of adding coolant.
4. When finished with the Jigsaw, unlock and release the Trigger to stop the Jigsaw. Wait until the Saw Blade stops completely. Then, remove the Jigsaw from the work piece.
5. To prevent accidents disconnect the power cord after use. Clean, then store the tool indoors out of children's reach

MAINTENANCE AND SERVICING

⚠ WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE: Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. BEFORE EACH USE, inspect the general condition of the tool. Check for loose hardware, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
2. AFTER USE, wipe external surfaces of the tool with clean cloth.
3. Periodically blow dust and grit out of the motor vents using dry compressed air. Wear ANSI-approved safety goggles and NIOSH-approved breathing protection while doing this.
4. CARBON BRUSH MAINTENANCE. The carbon brushes may require maintenance when the motor performance of the tool decreases or stops working completely. Carbon brushes are internal to the Motor Housing, and should only be checked by a qualified service technician.

WARNING:

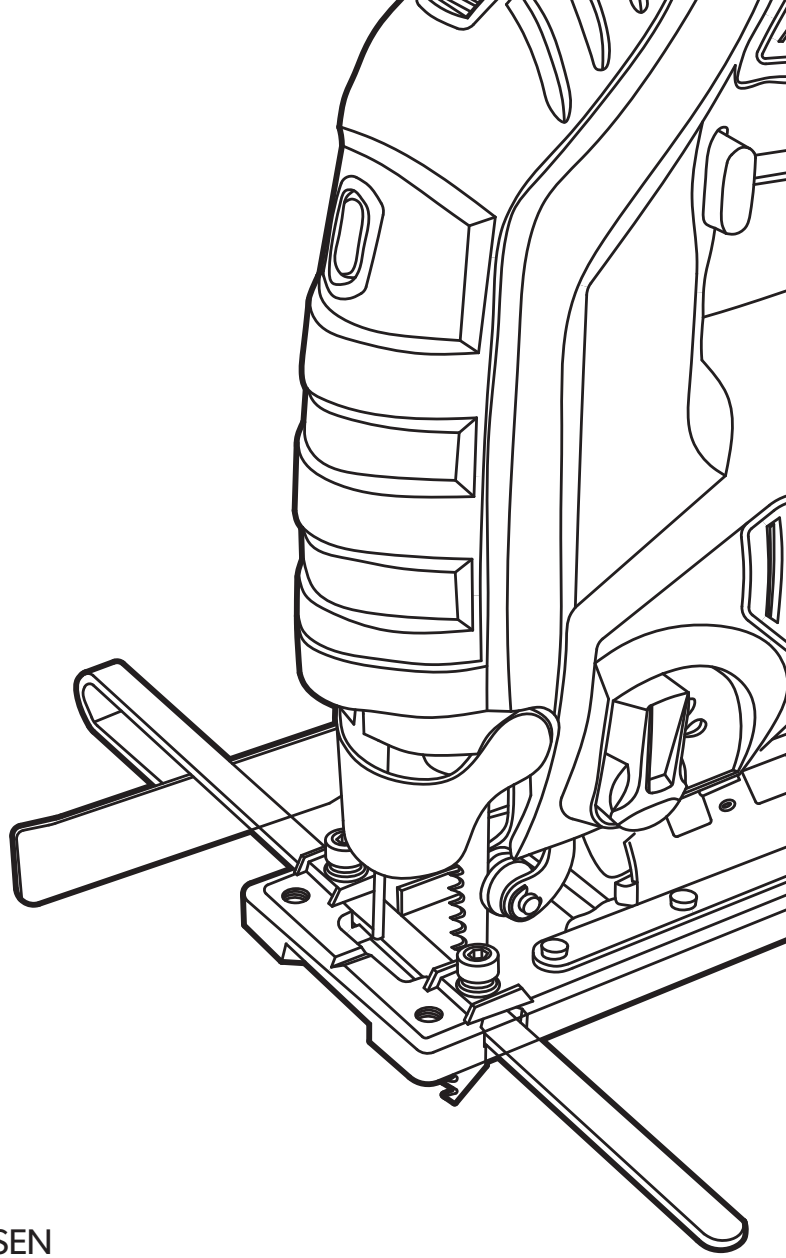
If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start.	1. Cord not connected. 2. No power at outlet. 3. Tool's thermal reset breaker tripped (if equipped). 4. Internal damage or wear. (Carbon brushes or switch, for example.)	1. Check that cord is plugged in. 2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads. 3. Turn off tool and allow to cool. Press reset button on tool. 4. Have technician service tool.
Tool operates slowly.	1. Excess pressure applied to workpiece. 2. Power being reduced by long or small diameter extension cord.	1. Decrease pressure, allow tool to do the work. 2. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See Extension Cords in GROUNDING section.
Performance decreases over time	Carbon brushes worn or damaged.	Have qualified technician replace brushes.
Excessive noise or rattling.	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating. GROUNDING section.	1. Forcing tool to work too fast. 2. Blocked motor housing vents. 3. Motor being strained by long or small diameter extension cord.	1. Allow tool to work at its own rate. 2. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air. 3. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See Extension Cords in GROUNDING section.
Tool does not grind, sand or brush effectively.	1. Disc accessory may be loose on Spindle. 2. Disc accessory may be damaged, worn or wrong type for the material.	1. Be sure disc accessory arbor is correct and Outer Flange/Arbor Nut is tight. 2. Check condition and type of disc accessory. Use only proper type of disc accessory in good condition.

WARNING:

Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.



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