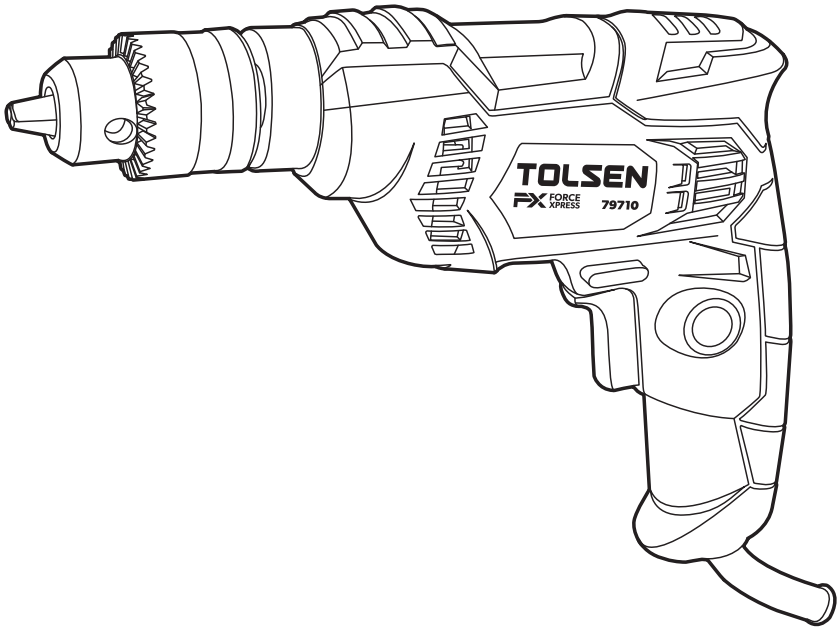
TOLSEN FX FORCE XPRESS

79710
ELECTRIC DRILL

INSTRUCTION MANUAL

120V~60Hz 4.2A



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.

Drill Safety Warnings

1. Wear ear protectors with drill. Exposure to noise can cause hearing loss.
2. Use auxiliary handles supplied with the tool. Loss of control can cause personal injury.
3. Hold power tools by insulated gripping surfaces when performing an operation where the 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.
4. Let bit cool before touching, changing or adjusting it. Bits heat up dramatically while in use, and can burn you.
5. If the drill bit jams, release the trigger immediately; drill torque can cause injury or break bit.
6. Maintain labels and nameplates on the tool. These carry important safety information If unreadable or missing, contact Harbor Freight Tools for a replacement.
7. Avoid unintentional starting. Prepare to begin work before turning on the tool.
8. 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.
9. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
10. 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.
11. This product is not a toy. Keep it out of reach of children.
12. 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.

SPECIFICATIONS

Electrical Rating	120V~60Hz / 4.2A
Rotational Speed	n_0: 0-3800min^{-1}
Chuck Capacity	3/8" (10mm)
Wood Capacity	1" (25mm)
Steel Capacity	3/8" (10mm)

Note: Symbology

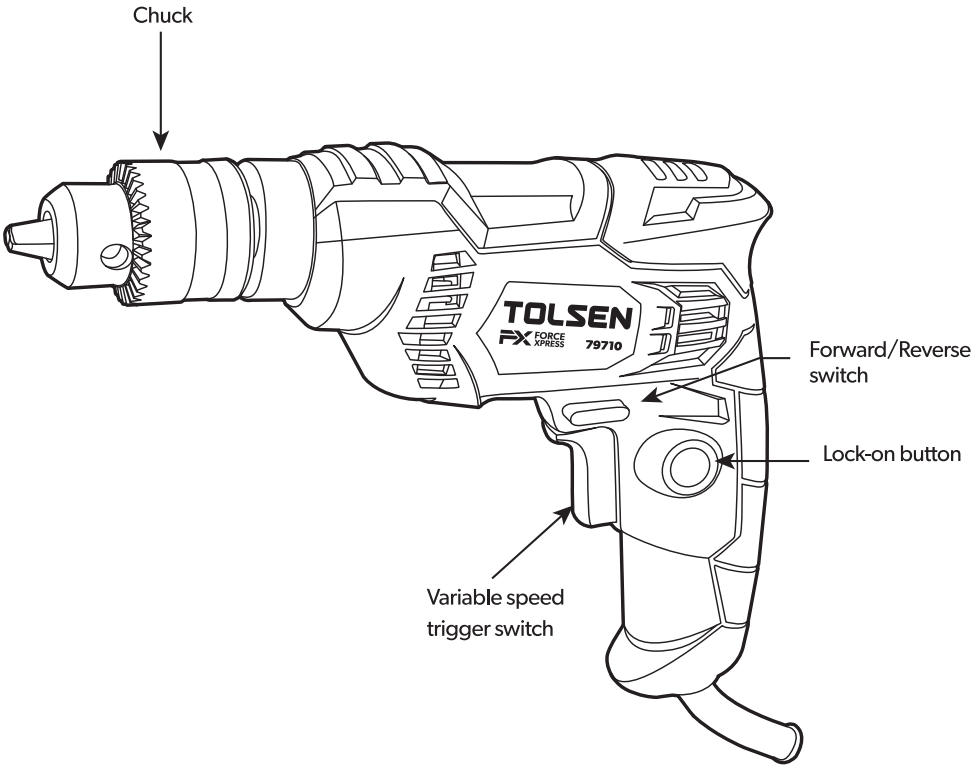
	Double Insulated
	WARNING mark concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields
	Read the manual before set-up and/or use.

SETUP

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: Release the Trigger, make sure the Trigger lock is not engaged and unplug the tool from its electrical outlet before adjusting the tool or installing accessories.



GENERAL OPERATING INSTRUCTIONS

This tool is designed for drilling into almost any material（wood, metal and plastics）.

Operating the chuck

1. Be sure the drill is disconnected from power source.
2. Open the chuck, using the chuck key, until it accepts the drill bit or accessory shaft, up to 10mm (3/8") in diameter.
3. Close the chuck and tighten it using the chuck key
4. Remove the chuck key before using the drill.

Forward-Reverse

To change the chuck rotation direction, move the lever above the trigger to the other side.

1. Setting the direction switch to the right causes the drill to turn clockwise, for normal drilling.
2. The direction switch moved to the left will cause the drill to run in reverse (counterclockwise) direction, backing drill bits and screws out of their holes.

WARNING:
Turn off your drill at once, unplug and inspect it for serious problems if:
1. Moving parts get stuck
2. Speed drops to an abnormally low level
3. The motor housing gets hot
4. Sparks or odors emit from the casing

Metal Drilling Tips

1. Use high speed steel, carbide or specialty bits for metal drilling.
2. Secure work piece to keep it from moving during the drilling operation.
3. Use a punch (not included) to create a dimple for the bit to start.
4. Start by drilling slowly to keep bit from wandering away from your starting point.
5. As hole is established, increase speed. Do not use so much pressure that bit heats up. This can damage bit and create irregular hole. For hard metal, use cutting oil to keep bit cool.
6. When drilling large holes in metal, start by drilling a smaller pilot hole, then using a larger bit for the final size hole.

Wood Drilling Tips

1. Use high speed bits or bits specially designed for wood drilling, such as brad point, spade bits, forstner bits, etc.
2. Secure work piece to keep it from moving during the drilling operation.
3. Start by drilling slowly to keep bit from wandering away from starting point. Increase speed as hole is established.
4. To prevent or reduce "break out" when bit penetrates work piece, clamp a piece of scrap material to back of work piece.
5. Do not lock Trigger in the ON position, as the bit can easily jam in wood and motor must be stopped quickly.

MAINTENANCE AND SERVICING

WARNING:
TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn off the switch 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.

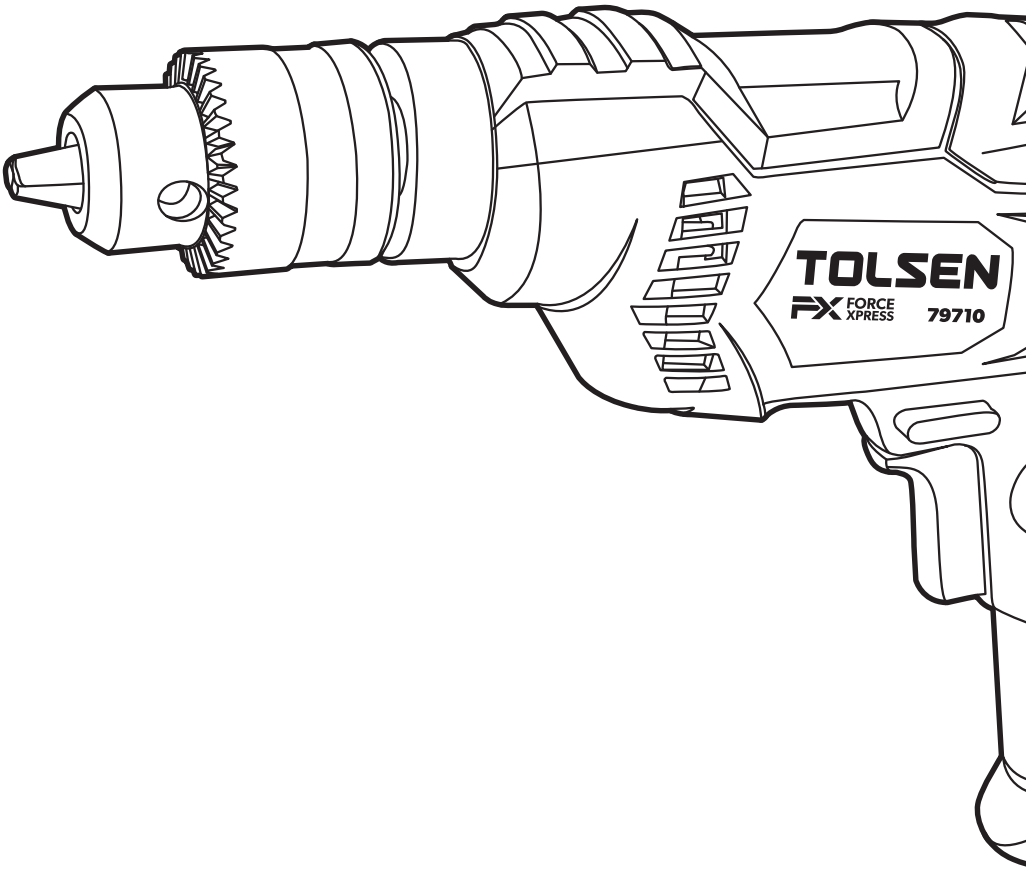
Cleaning, Maintenance, and Lubrication

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,
   • any other condition that may affect its safe operation.
   WARNING:
   If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.
2. AFTER USE, wipe external surfaces of the tool with clean cloth.
3. TO CLEAN: The ventilation openings should be kept clean and free of dirt and debris. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator before cleaning ducts. The most effective way to clean the ventilation openings is with compressed air.
4. CARBON BRUSH MAINTENANCE. The carbon brushes may require maintenance when the motor performance of the tool decreases or stops working completely.
   CAUTION:
   The carbon brushes must be replaced by a pair similar carbon brush available through the after-sales service organization or qualified professional person.
   The brushes must always be replaced in pairs.
5. If you discover any damage, consult the exploded drawing and parts list to determine exactly which replacement part you need to order from our customer service department.

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 General Power Tool Safety Warnings section.
Performance decreases over time.	1. Accessory dull or damaged. 2. Carbon brushes worn or damaged.	1. Keep cutting accessories sharp. Replace as needed. 2. Have qualified technician replace brushes.
Excessive noise or rattling.	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating.	1. Forcing tool to work too fast. 2. Accessory misaligned. 3. Accessory dull or damaged. 4. Blocked motor housing vents. 5. Motor being strained by long or small diameter extension cord.	1. Allow tool to work at its own rate. 2. Check and correct accessory to fence and/or table alignment. 3. Keep cutting accessories sharp. Replace as needed. 4. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air. 5. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See General Power Tool Safety Warnings section.

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



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