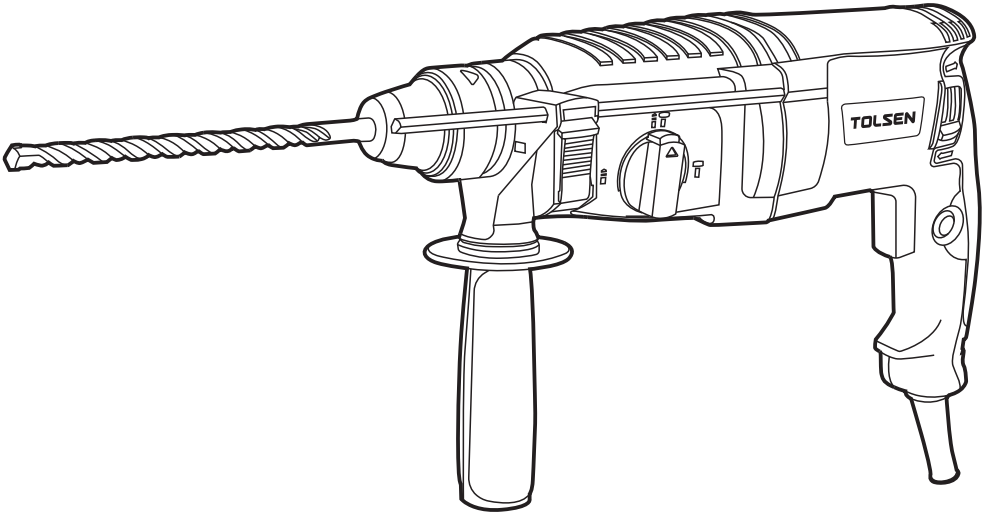
TOLSEN FX FORCE XPRESS

79712
ROTARY HAMMER

INSTRUCTION MANUAL 7A 800W 120V~60Hz



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.

Rotary Hammer Safety

⚠ WARNING

1. Wear ear protectors with rotary hammers. 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 tolsen 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. 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.

DRILL SAFETY

1. **When using electric hammer chisel only use bits that are configured with the correct slots for this chuck.**
2. **BEFORE STARTING** the operation, jog the chisel switch to make sure the chisel bit does not wobble or vibrate.
3. **DO NOT USE** fly cutters or multiple-part hole cutters, as they can come apart or become unbalanced in use.
4. **MAKE SURE** the spindle has come to a complete stop before touching the chuck or attempting to change the chisel bit also beware that the bit will be hot, let it cool down before changing as it could burn and cause injury.
5. **ALWAYS MAKE SURE THE CHISEL OR CHISEL IS FIRMLY SEATED IN THE Hex CHUCK** before starting the job in hand.

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.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice.
5. Include vibration-free periods each day of work.
6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
7. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SPECIFICATIONS

Electrical Rating	120V~60Hz
No Load Speed	0-1100/min
Impact Force	3.0J
Rated current	7A
Input Power	800W
Impact Rate	4900BPM
Max In Steel	13mm
Max In Concrete	26mm
Max In Wood	30mm
Chuck Type	SDS-PLUS

⚠ WARNING

The electric hammer chisel power tool noise output may exceed 85dB(A) at the workplace. In this instance, wear ear protection.

Wear safety-hearing protection

Wear Dust mask

Wear safety goggles

Wear safety shoes

Wear hard hat

Note: Symbology

Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

V	volts
A	amperes
Hz	hertz
W	watt
Kw	kilowatts
F	farads
µF	microfarads
l	litres
Kg	kilograms
bar	bars
Pa	pascals
min	minutes
s	seconds

n_o	No load speed
./min or min^{-1}	revolutions or reciprocations per minute
	alternating current
	three-phase alternating current
	protective earthing at earthing terminal, class i tools
Ø	diameter
0	off position
	arrow
	warning symbol
	splash proof construction
	watertight construction
	class II construction
	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.

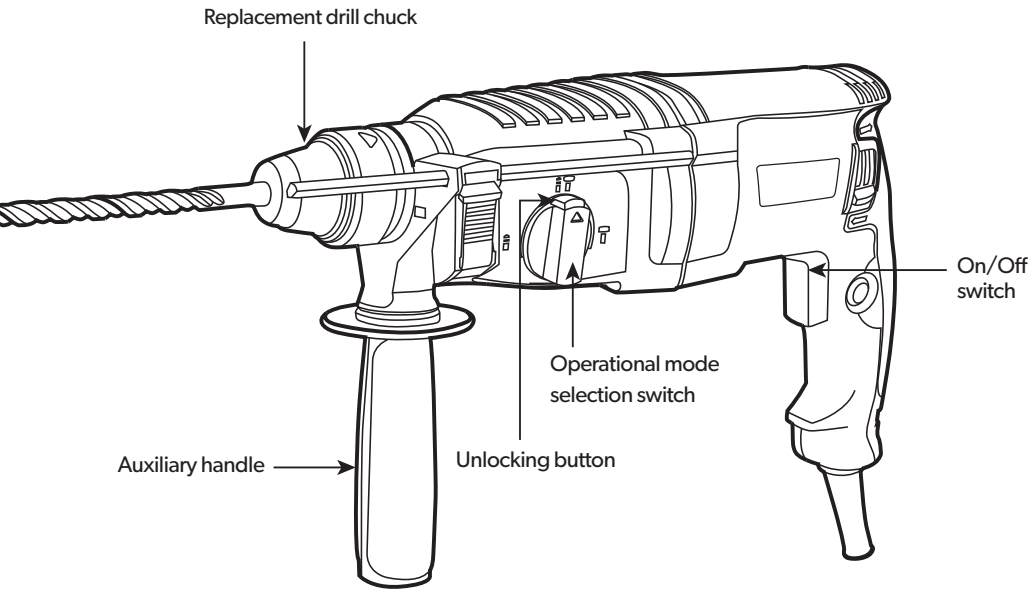
SETUP

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: 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



ACCESSORIES & CARTON CONTENTS

	DESCRIPTION	QTY
1	Rotaryhammer	1
2	Chisels	2
3	Drill Bits	3
4	Auxiliary Handle	1
5	Depth Gauge	1

⚠ WARNING

If any part is missing or damaged, do not plug the chisel into the power source until the missing or damaged part is replaced.
Carefully unpack the tools see "Components chart" at left hand side of this page.

⚠ WARNING

Use only accessories recommended for this electric hammer chisel. Follow instructions that accompany accessories. Use of improper accessories may cause injury to the operator or damage to the cordless drill.
Do not use any accessory unless you have completely read the instructions or Owner's Manual for that accessory.

⚠ WARNING

To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinners or similar highly volatile solvents to clean the tool.

OPERATING INSTRUCTIONS

⚠ WARNING

Always make sure the power tool is isolated from the power supply before fitting any attachment

Handle (Fig1)

Always make sure the fixed handle is secure before any job takes place as a loose handle could invite injuries.

Fig1

Switching the chisel on/off (Fig2)

The chisel has an On/Off switch (Fig 2) built in to the handle. Holding the chisel with both hands simply squeeze the trigger and the motor will start. To switch off release the trigger.

Fig2

WARNING

The electric hammer chisel continues for a few second after the trigger has been release, be careful when putting it down.

Put the bit into the hex housing (Fig3)

Put the bit into the hex housing and clamp the bit by turning the stop lever half a turn anti clockwise. This will lock the bit in place. (See Fig 3)

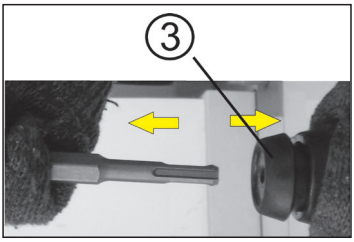


Fig3

Do not use the chisel until you are satisfied the bit is secured.

MAINTENANCE AND SERVICING

⚠ WARNING

This electric hammer chisel does not have reverse direction, so always take care not to force the chisel in case the chisel bit gets stuck. Always make sure you keep the chisel going in and out to remove debris.
This chisel does not have torque facility. It is not recommended to use any other bit other than masonry or chisels do not use metal cutting drills, this could cause serious injury
NOTE: chiseling for an extended period of time may cause the chisel motor to overheat. If the chisel gets hot, stop chiseling and allow it to cool for at least 15 minutes.

Precautions on using electric hammer chisel

1. Before using the electric hammer chisel always make sure the oil supply is to the full level and the screw is tight.
2. This electric hammer chisel has a fixed handle always make sure the screws holding the handle are secure before operation takes place. Always use both hands when using this chisel failure to adhere to this could invite injuries.
3. Safe operation, always make sure you have a stable posture and safe footing before operating the electric hammer chisel.
4. When working at a high level, always make sure that no person or persons are below you, as this could invite injuries to those persons under you.
5. Before starting any job like breaking, chipping a wall, floor or ceiling, thoroughly confirm that no items such as an electric cable, water pipe or conduit are buried inside as this could cause injury or flooding.
6. Properly set the bit holder.
7. The bit can become very hot during operation exercise extreme caution as this could cause injury.
8. Always wear protective safety glasses
9. Always wear ear defenders or earplugs
10. Always wear suitable dust mask
11. Always wear protective footwear.
12. Always wear hardhat

Hammer chisel prior to operation

1. Power source
   Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
2. Grounding
   This tool should be grounded while in use to protect the operator from electric shock.
   The tool is equipped with a three-conductor cord and grounding type receptacle, the green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live or neutral terminal.
3. Power switch
   Ensure that the power switch is in the off position before any work is carried out on the chisel. If the plug is connected to a power receptacle while the power switch is in the on position, the power tool will start operating immediately this could invite serious injury.
4. Extension cord.
   When the work area is away from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable

How to use the electric hammer chisel

Place the bit you are going to use to do the job in hand as in Fig 3 and 4

1. Pull the trigger switch after applying the chisel bit tip to the chiseling position.
2. It may be necessary to punch the bit against the crushing position forcibly in order to begin the striking stroke. This is not due to malfunction of the tool, it means that the safe guard mechanism against no-load striking is working.
3. By utilizing the weight of the machine and by firmly holding the hammer chisel with both hands, one can effectively control the subsequent recoil motion. (See Fig 5)

Proceed at a moderate work rate, the use of too much force will impair efficiency.

CAUTION

Sometimes the tool does not begin the striking stroke even when the motor rotates this may be because the oil has become thick

Due to low temperature or has been standing idle for long period. Run the chisel for approx 5 minutes to bring the oil temperature up.

Fig5

MAINTENANCE

Maintenance and inspection

1. Inspecting the tool
   When using dull tool bits this can cause motor malfunction and degraded efficiency. Always replace dull bits with new ones without delay when abrasion is noted.
2. Inspecting the mounting screws
   Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious injury.
3. Maintenance of the motor.
   The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.
4. Inspecting the carbon brushes.
   The motor employs carbon brushes that are consumable parts; since an excessively worn carbon brush could result in motor trouble, replace the carbon brush. Wear limiter (6) No of carbon brush (7). (See Fig 7)

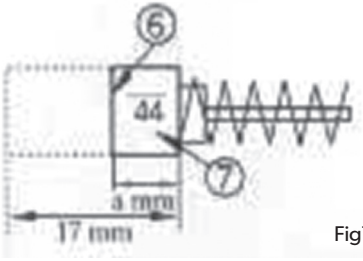


Fig7

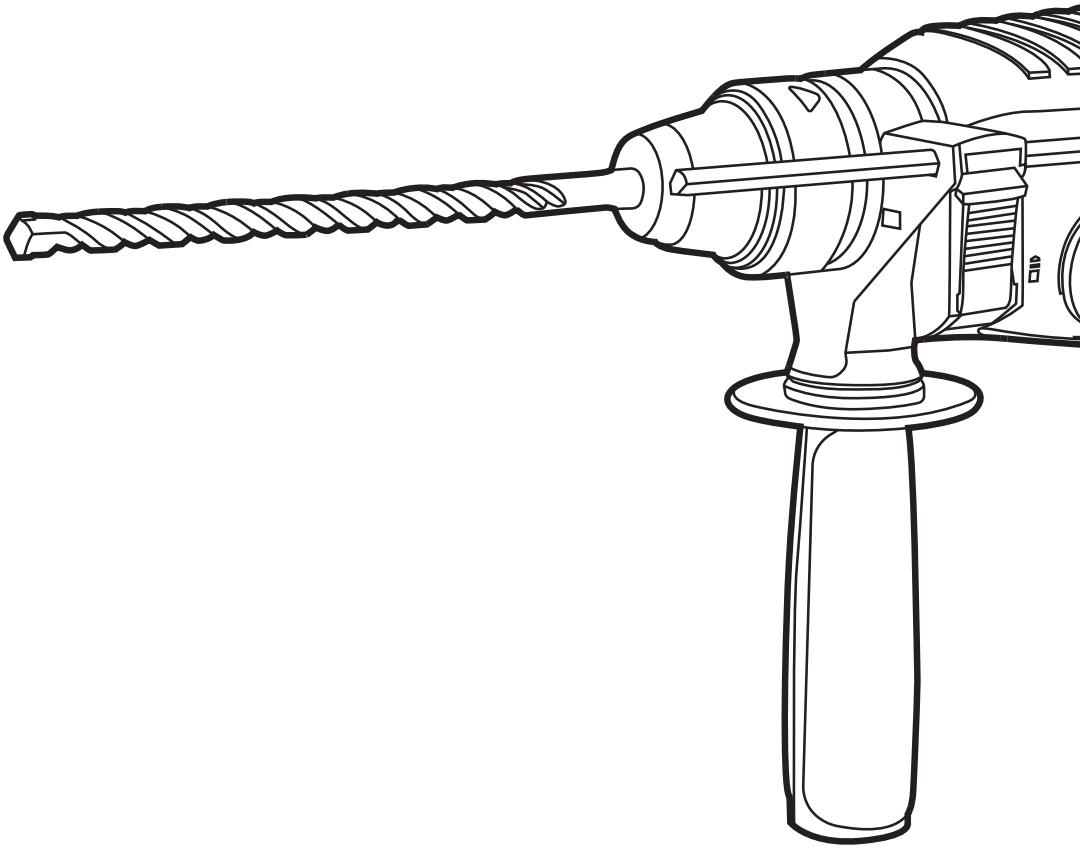
rubber and brush cap in that order at the interior (See Fig 8)

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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