

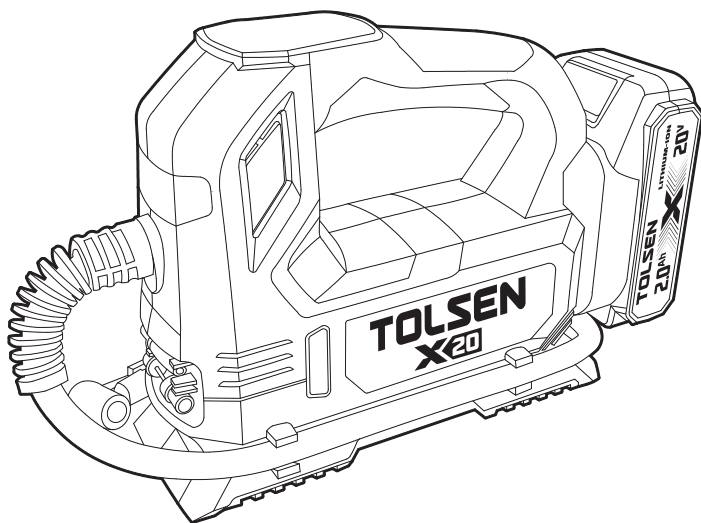
TOLSEN X20

97122 LI-ION CORDLESS INFLATOR

INSTRUCTION MANUAL

20V LITHIUM-ION

CE RoHS



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 all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

WARNING: This appliance is not intended for use by persons (including children) with reduced, physical or mental capabilities or lack of experience or knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children must be supervised to ensure that they do not play with the appliance.

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.

Work area safety

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.

Electrical safety

1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. 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.
5. 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.
6. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) or ground fault circuit interrupter (GFCI) protected supply. Use of an RCD or GFCI reduces the risk of electric shock.
7. Power tools can produce electromagnetic fields [EMF] that are not harmful to the user. However, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

Personal safety

1. When operating the inflator, keep alert, observe what you are doing, and use common sense. Do not use the inflator when you are tired or under the influence of drugs, alcohol or drugs. Inattention when operating the inflator may cause serious personal injury.
2. When operating the inflator, always maintain a proper foothold and balance. The correct foothold and balance can better control the inflator in unexpected situations.
3. Goggles shall be worn during use, and dust-proof masks, anti-skid safety shoes, hard hats or hearing protection devices must be used if necessary.
4. Do not wear loose clothes and keep long hair. Loose clothes, jewelry or long hair may be sucked into the air inlet, causing wind blockage and even damaging the machine.
5. Do not use on ladders or unstable supports. A stable foothold on a solid ground can better control the inflator in case of accidents.
6. Do not disassemble the inflator. Do not operate the inflator near flammable liquid or in gas or explosive environment. Internal sparks may ignite smoke.
7. Do not store the inflator in a humid or high-temperature environment. Do not store at a temperature below 10°C or above 35°C.

Use And Maintenance Of Inflator

1. Before each use, check whether the hose is fragile or worn to ensure that all connections are secure. Do not use if defects are found. Purchase new hoses or notify an authorized service center for inspection or repair.
2. Slowly release all pressure in the system, dust and debris may be harmful. If the switch cannot be opened or closed, do not use the inflator. The inflator that cannot be controlled by the switch is dangerous and must be repaired.
3. Before making any adjustment, replacing accessories or storing the inflator, please put the switch in the off position. Such preventive safety measures can reduce the risk of accidentally starting the inflator.
4. Store idle inflators out of reach of children and other untrained personnel. Inflators are dangerous in the hands of untrained users.
5. Check whether the moving parts are misaligned or stuck, whether the parts are broken and any other conditions that may affect the operation of the inflator. If damaged, please repair the inflator before use. Many accidents are caused by poorly maintained tools.
6. Use only accessories recommended by the manufacturer for your model. Accessories suitable for one inflator may cause injury risk when used on another inflator.
7. Keep the inflator and its handle dry, clean and free of grease. Always use clean cloth when cleaning. Never use brake fluid, gasoline, petroleum products or any strong solvent to clean the inflator. Following this rule will reduce the risk of loss of control and deterioration of the shell plastic.
8. Do not point any inflator at yourself or others.
9. Keep the outside of the inflator dry, clean and free of oil and grease. Always use clean cloth when cleaning. Do not use brake fluid, gasoline, petroleum products or any strong solvent to clean the device. Following this rule will reduce the risk of deterioration of the shell plastic.
10. Do not exceed the pressure rating of any component in the system.
11. Protect material and air lines from damage or puncture. Keep hoses and power cords away from sharp objects, chemical leaks, oil, solvents and wet floors.

Safety Precautions For Inflator

1. Only qualified maintenance personnel can repair the inflator. Repair or maintenance by unqualified personnel may cause injury risk. Only use the same replacement parts when servicing the inflator. Follow the instructions in the maintenance section of this manual. The use of unauthorized parts or non-compliance with maintenance instructions may result in the risk of electric shock or injury.
2. Understand your inflator, carefully read the operation manual, understand its application and limitations, and specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire or serious injury.
3. Explosion risk: do not operate the inflator so that the output pressure is greater than the marked maximum pressure of the object to be inflated. Do not use it under a pressure greater than 6.8 PA.
4. In order to reduce the risk of electric shock, do not get wet and store indoors.
5. Check the device for cracks, pinholes or other defects that may make the inflator unsafe. Do not cut or drill holes on the inflator.
6. Ensure that there is no obstacle or hose winding in the hose. Do not block the inflation or deflation outlet during operation, which may cause the inflator to lose balance and damage the machine.
7. Use the inflator only for its intended use and do not change or modify the original design or function of the device.
8. Be careful that misuse and improper operation of this inflator may cause injury to yourself and others. Do not leave the inflator unattended when the air hose is connected to the inflator.
9. Do not continue to use the inflator or hose with air leakage or abnormal function.
10. When adjusting, repairing or not using the inflator, be sure to disconnect the air source and power supply.

11. Do not attempt to pull or carry the inflator through the hose.
12. In addition to all safety rules of the inflator, all safety regulations recommended by the inflator manufacturer must be observed. Following this rule will reduce the risk of serious personal injury.
13. This product is only for family use, not for industrial production.
14. Do not use the inflator as a breathing device, do not spray compressed air onto people or animals, and do not blow dust and dirt to yourself or others. Following this rule will reduce the risk of serious injury.
15. Protect the lungs. If there is dust during operation, please wear a mask or dust mask. Following this rule will reduce the risk of serious personal injury.
16. Do not use this inflator to spray chemicals. Toxic fumes or chemicals may damage the parts of the inflator.
17. Burst risk: carefully monitor the object during inflation to reduce the risk of over inflation. During inflation, use reliable pressure gauge regularly. The pressure gauge on the inflator is only for reference, so it has no binding force on the accurate value.
18. Keep these instructions: always refer to them and use them to guide others who may use this inflator. If you lend this inflator to others, I will also lend them these instructions.

Battery Safety



WARNING

This battery can only be used in the machines included in the TOLSEN MP20V lithium-ion power platform system. This battery can only be used cooperatively with the designated battery charger. Li-ion batteries, if incorrectly used, stored or charged will cause a fire, burn and explosion hazard. Failure to follow these instructions may cause overheating or fire.

1. Keep the battery out of reach of children.
2. The battery should be charged at ambient temperatures between 5 and 40°C (ideally around 20°C) . After charging, allow 15 minutes for the battery to cool before use.
3. The Battery Charger monitors battery temperature and voltage while charging. DO NOT leave batteries on charge for extended periods and NEVER store batteries on charge. Ensure that the charger is disconnected from the mains supply after use.
4. When not in use batteries should be stored at room temperature. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 40°C (ideally around 20°C) .
5. Ensure that battery contacts cannot accidentally short in storage. Keep batteries clean; foreign objects or dirt may cause a short. Keep away from other metal objects, for example, paperclips, coins, keys, nails and screws.
6. **DO NOT** store lithium-ion battery packs in a discharged state over a long period as this can damage the lithium-ion cells. For long-term storage, store batteries in a high charge state disconnected from the power tool.
7. Batteries can become faulty over time, individual cells in the battery can fail and the battery could short. The charger will not charge faulty batteries. Use another battery, if possible, to check correct functionality of the charger and purchase a replacement battery if a faulty battery is indicated.
8. **DO NOT** open, disassemble, crush, heat or incinerate. Do not dispose of in fire or similar.

Battery Charger Safety



WARNING

This charger can only be used to charge the batteries which has TOLSEN MP20V symbol. If it is used to charge other kinds of batteries, there is a risk of explosion. **DO NOT** attempt to recharge non-rechargeable batteries.

1. This is class 2 power supply. It is suitable for indoor use only.
2. Before use, the input and output technical data must be checked to secure correct use.
3. Do not use the Battery Charger in the circumstances that the output polarity does not match the load polarity.
4. Do not attempt to use the charger with any batteries other than those supplied. Keep your battery charger clean; foreign objects or dirt may cause a short or block air vents. Failure to follow these instructions may cause overheating or fire
5. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

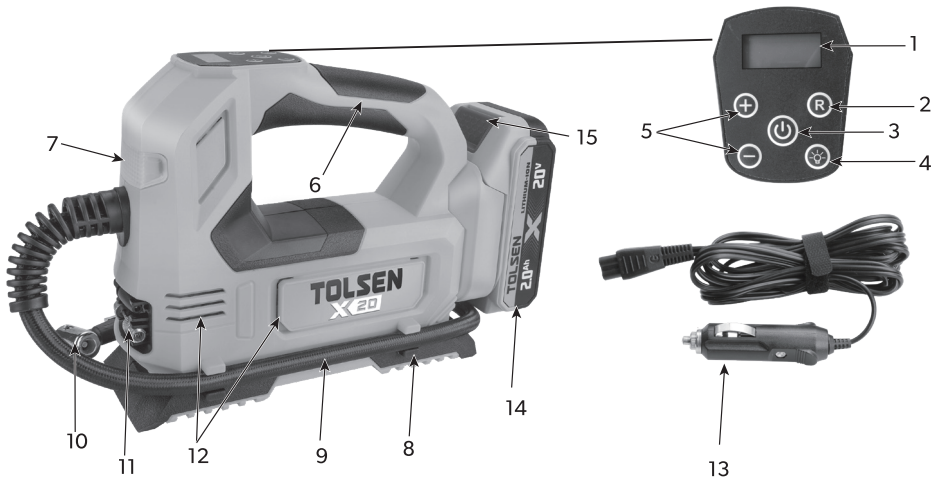
Note: Symbology

	Class II Double insulated for additional protection
	Read the instruction manual before using
	Wear hearing protection while operating the tool
	Wear hand protection
	Always use breathing apparatus when machining materials which generate dust.
	Wear ear protection.
	Operating environmental temperature
	Do not incinerate battery pack
	Do not expose to water
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Batteries and rechargeable batteries are not household waste! As a consumer, you are required by law to dispose of all batteries and accumulators, whether or not they contain harmful substances *, at a collection point in your municipality / neighborhood or in commerce so that they can be disposed of in an environmentally sound manner.
	Battery pack is recyclable and should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice
	Safety alert
	For indoor use only
T2A	Internal time lag fuse with a maximum current of 2A.

FUNCTIONAL DESCRIPTION AND SPECIFICATIONS

**WARNING**

Disconnect battery pack from tool before making any assembly, adjustments or changing accessories. Such preventive safety measures reduce the risk of starting the tool accidentally.



1. Digital display
2. Set button
3. Start switch
4. Light switch
5. Tire pressure increase/decrease button
6. Rubber cover handle
7. LED lighting
8. Air hose buckle
9. Air hose
10. Air chuck
11. Nozzle interface storage area
12. Air inlet
13. Cigarette lighter charging line
14. Battery
15. Lock button

SPECIFICATIONS

Rated Voltage	20VDC
Input	12VDC
Max air pressure	120psi
Air flow	28L/min
Air hose length	60cm, Ø10.5
Cigarette lighter cord with plug	3 meters
Battery pack (96122 not include)	
Battery pack Voltage	20VDC
Battery capacity	2.0Ah
Charger (96122 not include)	
Input Voltage	110-120VAC 60Hz
Output Voltage	21.5VDC
Rated output current	1.5A
Charging Time	85 minutes fast charging(2.0Ah battery)
Protection class	

OPERATING INSTRUCTIONS

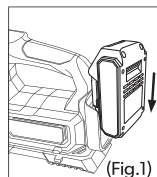
Install battery pack or 12V car power adapter

• Install or remove the battery pack (Fig.1)

To install: Slide the battery pack into the bottom until you hear a click.

Make sure that the latch is in place and battery is secure before operation.

To remove: Pull out the battery pack while pressing the battery release latch.



(Fig.1)

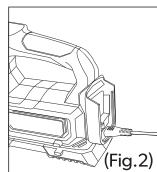
• Install or remove 12V car power adapter (Fig.2)

1. Unravel cord before using. If the battery is installed, remove it from the machine first by pressing battery release button and pulling out..

2. Plug the 12V car power adapter into the machine.

3. Connect the adapter into the car socket.

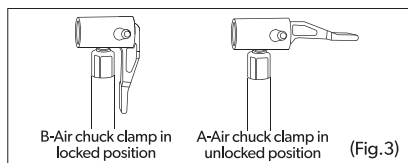
When ready to use, power car on.



(Fig.2)

Connect the Air Chuck to the Valve Stem

1. Push the air chuck clamp up so that it is in the unlock position.
2. Then place the air chuck on the valve stem and make sure the threaded section of the valve stem is inside the air chuck.
3. Pressing air chuck clamp down until it stops or is parallel with the air hose.



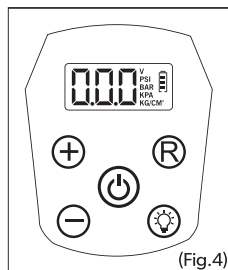
(Fig.3)

Note: Improperly connected hoses or accessories may separate under pressure and pressure and cause serious injury. Possible air leaks can cause incorrect pressure readings. Ensure that all connections are secure.

When using the inflator, make sure that the hose is free of obstacles. If the hose is blocked, it may be overheated.

Set The Pressure Value

1. Press the "⏻" (on/unit) button to read the current tire pressure on the gauge.
2. Press the "R" button again to select the tire pressure measurement unit from PSI, KPA, BAR, KG/CM.
3. Press the "+" or "-" button to adjust the preset tire pressure. (1) Long press the "+" or "-" button to quickly adjust the working pressure. (2) Short press the "+" or "-" button to adjust the preset working pressure. Note: increment by 0.05BAR & KG/CM, 1 PSI, 5KPA.
4. The preset pressure value will be set after three seconds.
5. Press the start switch to inflate. When it reaches the preset pressure value, the inflator will stop working.
6. Press the "⏻" button (on/unit), then press the "💡" button, the LED light is turned on. And press the "💡" button again, the LED light will be flashing.



(Fig.4)

Note: the tolerance of inflator isor-2 psi. If it is used continuously every 10 minutes, a cooling time of 3 minutes is required.

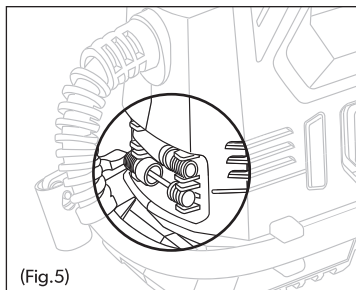
1. To reset the tire pressure measurement unit press "⏻" to reselect after setting preset pressure value.
2. The digital gauge records the preset measurement unit and the value of the last operation
3. After the air pump reaches the preset pressure value, the digital gauge will automatically shutdown after 60 seconds
4. The maximum pressure is 150 psi.

Note:

1. Since the pressure gauge is not calibrated and not binding for exact values, tire pressure must be checked by using a reliable measuring device after inflating tires with this pump. Driving a vehicle with improperly inflated tires could result in serious injury.
2. Do not leave items that being pumped up unattended while using the inflator. These items can burst and could cause serious injury.
3. The inflator is capable of inflating up to 6.8 Bar. To avoid over inflation, carefully follow instructions on items to be inflated. To avoid product damage, never exceed recommended pressures.
4. The inflator is not designed for commercial applications.

Storage Of Air Hoses And Accessories

When the inflator is not used, put the hose into the storage area on both sides of the tool. The adaptors and needles provided with the inflator can also be placed in the storage area.

**Parts**

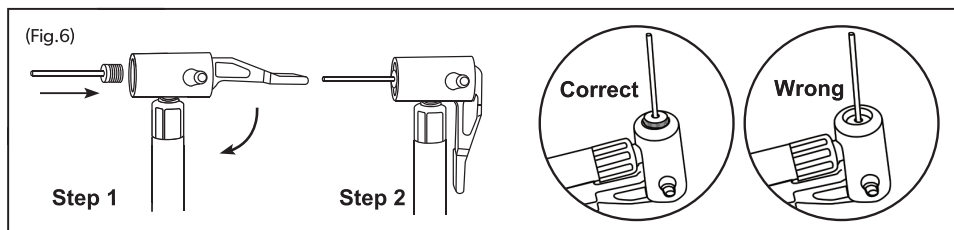
The accessories provided have a variety of functions: the conical adapter can be used on the smaller pinch valve to inflate small items such as children's toys. Usually, the user needs to blow air to inflate them. The sports ball needle can be used to inflate various types of balls or any other items that need to inflate the sports ball needle. **Note:** when inflating items of 10 psi or less, after each burst of short-term continuous inflation, check by feeling or using a calibrated measuring device to determine the accurate pressure.

How To Install The Ball Needle

For inflating sport balls like basketball, football, etc.

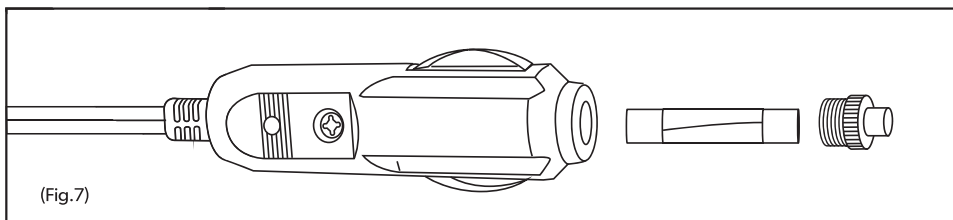
The following pictures show to hoop up the nozzle to air chuck.

Note: do not completely insert the ball needle into the air chuck to prevent the exhaust needle hole from being completely blocked.



Replace The Cigar Lighter Fuse

If the cigar lighter can not provide power for the inflator, check the fuse and see if it is broken. As shown below, unscrew the head of the cigar lighter, take out the broken fuse, replaced by the new fuse, and screw the head.



MAINTENANCE

WARNING: ALWAYS disconnect from the mains power supply, before carrying out any maintenance/ cleaning of the charger. Remove the battery before carrying out any maintenance/ cleaning of the tool.

Note: Both the tool and the charger contain no user-serviceable parts. If the device does not perform as outlined in this manual, return it to an authorised service centre for repair

General inspection

- Regularly check that all the fixing screws are tight
- Inspect the supply cord of the tool, prior to each use, for damage or wear. Repairs should be carried out by an authorised service centre. This advice also applies to extension cords used with this tool.

Cleaning

- Keep your tool clean at all times. Dirt and dust will cause internal parts to wear quickly, and shorten the machine's service life. Clean the body of your machine with a soft brush, or dry cloth. If available, use clean, dry, compressed air to blow through the ventilation holes
- Clean the tool casing with a soft damp cloth using a mild detergent. Do not use alcohol, petrol or strong cleaning agents
- Never use caustic agents to clean plastic parts

Lubrication

- Slightly lubricate all moving parts at regular intervals with a suitable spray lubricant



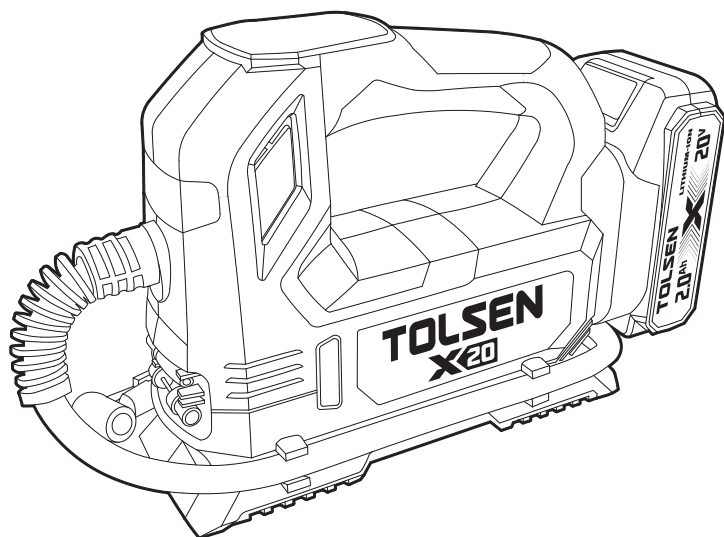
Disposal

Always adhere to national regulations when disposing of power tools that are no longer functional and are not viable for repair.

- Do not dispose of power tools, or other waste electrical and electronic equipment (WEEE), with household waste.
- Contact your local waste disposal authority for information on the correct way to dispose of power tools

TROUBLESHOOTING

problem	possible causes	Likely Solutions
Tool will not start.	1. Battery Pack not properly connected. 2. Battery Pack not properly charged. 3. Battery Pack worn out. 4. Internal damage or wear. (Carbon brushes or Trigger, for example.) 5. Contact chips of switch or battery pack deformed. 6. Battery is not suitable for TOLSEN MP20V lithium-ion power platform system 7. Overload operation	1. Remove Battery Pack, make sure there are no obstructions, clean battery contacts on tool, reinsert the Battery Pack according to its shape (it should only fit one way), and press firmly until the Battery Pack locks in place. 2. Make sure Charger is connected and operating properly. Give enough time for Battery Pack to recharge properly. 3. Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 4. Have technician service tool. 5. Replace switch or Battery Pack 6. Replace the battery of TOLSEN MP20V 7. Stop to use and restart the machine after cooling.
Tool operates slowly.	1. Excess pressure applied to workpiece. 2. Battery Pack wearing out. 3. Low battery	1. Decrease pressure, allow tool to do the work. 2. Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 3. Recharge or replace a fully charged battery
Performance decreases over time.	1. Battery Pack worn out. 2. Wheel or blade dull	1. Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 2. Replace wheel or blade
Excessive noise or rattling.	Internal damage or wear. (Gear or Bearings, for example.)	Have technician service tool.
Overheating.	1. Forcing tool to work too fast. 2. Blocked motor housing vents.	1. Allow tool to work at its own rate. 2. Clean the Blocked motor housing vents
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.



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