

TORQ[®] X

Instruction Manual



DEFINITIONS – SAFETY GUIDELINES

⚠ **WARNING:** Indicates a potentially hazardous situation which, if not avoided could result in death or serious injury.

⚠ **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

GENERAL POWER TOOL SAFETY WARNINGS

⚠ **WARNING: READ ALL SAFETY WARNINGS AND INSTRUCTIONS.**

Failure to follow the warnings and instructions may result in electric shock or injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term "power tool" in the warnings refers to your main-operated (corded) 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 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 Ground Fault Circuit Interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

PERSONAL SAFETY

1. 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.

2. Use personal protective 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.

3. Prevent unintentional starting. Ensure the switch is in the OFF-position before connecting to power source and/or bat-

tery 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.

4. 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.

5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

6. 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.

7. 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.

POWER TOOL USE AND CARE

1. 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.

2. 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.

3. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

4. 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.

5. 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.

6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. 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.

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.

2. 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 medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

3. Do not smoke during use. Nicotine may reduce the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

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

SERVICE

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

ADDITIONAL SAFETY WARNINGS COMMON FOR POLISHING OPERATIONS

CORRECT USAGE

1. This tool is designed to be used as a polisher. Read all the warnings, instructions, indications provided on drawings and specifications supplied with this tool. Failure to comply with all the instructions provided below may cause electrical shocks, fire and/or serious injuries.
2. This tool is not intended to be used for smoothing, metal brushing and cutting operations. The use of this tool for unintended applications may cause hazards and injuries to people.
3. The tool must be used with accessories that have been specifically designed or recommended by the manufacturer, (TORQ Tool Company). The fixing of the accessory to the tool does

not guarantee a safe operation.

4. The rated speed of the accessories must be at least equivalent to the maximum speed specified on the tool. Using the accessories at speeds above the rated maximum, may cause them to break or be projected into the air.
5. The external diameter and thickness of the accessories must match the specifications of the tool. Accessories with incorrect dimensions cannot be adequately protected controlled.
6. The configuration of accessories must match the tool. The use of accessories that cannot be perfectly fitted on the tool may result in imbalance, excessive vibrations and in the impossibility of controlling the tool.
7. Do not use damaged accessories. Before use, inspect all the accessories. Inspect the supporting pads and verify there are no cracks, tears or excessive wear. If the tool or accessory has been dropped, verify that it is not damaged or install a new accessory. After inspecting or installing an accessory, test the operation of the tool at maximum speed and without load for one minute, keeping at a safety distance. If the accessories are damaged, they will break during this test.
8. Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or work piece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering out particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

9. Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of work piece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

10. Hold power tool by insulated gripping surfaces only, when performing an operation where the accessory may contact hidden wiring or its own cord. An accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.

11. Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.

12. Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.

13. Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

14. Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

15. Do not operate the power tool near flammable materials. Sparks could ignite these materials.

16. Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

17. 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.

KICKBACK AND RELATED WARNINGS

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the work piece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

1. Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use side handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.

2. Never place your hand near the rotating accessory. Accessory may kickback over your hand.

3. Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.

4. Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory

and cause loss of control or kickback.

5. Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

EXTENSION CORD

An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Minimum Gauge for Cord Sets						
Ampere Rating		Volts	Total Length of Cord Feet (meters)			
			25 (7,6)	50 (15,2)	100 (30,5)	150 (45,7)
More Than	No More Than	AWG				
0	6	18	16	16	14	
6	10	18	16	14	12	
10	12	16	16	14	12	
12	16	14	12	Not Recommended		

⚠ WARNING: Always wear safety glasses. Everyday eyeglasses are not safety glasses. Also use face or dust mask if cutting operation is dusty. Always wear certified safety equipment.

⚠ WARNING: Always wear proper personal hearing protection that conforms to ansi s12.6 (S3.19) During use.

⚠ WARNING: Some dust created by polishing contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

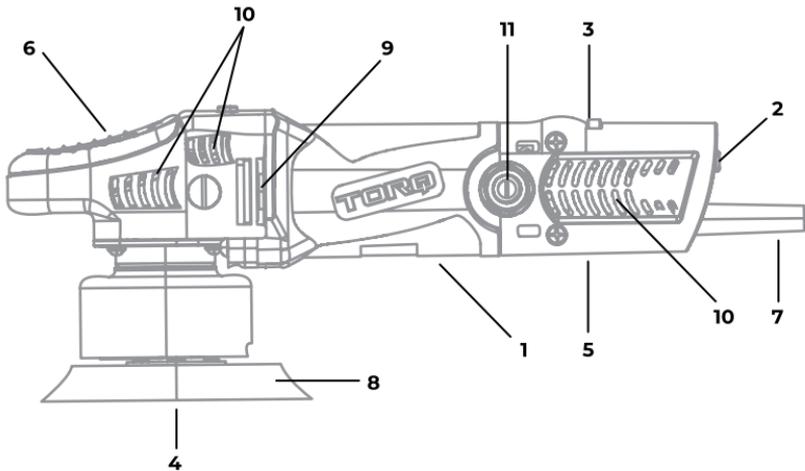
- lead from lead-based paints
- crystalline silica
- arsenic and chromium from chemically-treated lumber

⚠ WARNING: use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use niosh/ osha approved respiratory protection appropriate for the dust exposure.

TORQ Tool Company Random Orbital Polisher

Model	TORQX
Protection Class	II
Power W	680 W
Speed Control	Yes
Rotation OPM	2800 / 7800
Backing Plate Fixing Thread	M8 (5 / 16,8 mm)
Plate Diameter (inch)	5"
Pad Type	Velcro Faced
Orbit	8 mm
Weight (lb)	4,85 lbs

The Values shown are based on nominal voltage of 120 V / 60 Hz. In the case of volt-ages and frequencies of different power, values may vary. Refer to the label techni-cal specifications to the nominal values of the tool.



PARTS OF THE TOOL

1. Identification Plate
2. ON/OFF Switch
3. Total Control Speed Adjust Dial
4. Back-Up Pad Fixing Screw
5. Handle
6. Ergonomic Comfort Grip Handle
7. Power cord with plug
8. Velcro faced back-up pad
9. Motor ventilation slots
10. Integrated Cooling
11. Speed Exchange Port

INTENDED USE

The TORQX Random Orbital Polisher is designed for auto, marine, RV, motorcycle detailing and finishing correction. Do not use in the presence of flammable liquids or gasses.

Do not let children come into contact with the tool. Supervision is required when inexperienced operators use this tool.

SAFETY WARNING APPLICABLE TO POLISHING OPERATIONS

Verify that no loosened part of the polishing tool shroud or the locking ties can rotate freely. Safely position or cut all the loosened fixing wires. Loosened or revolving fixing wires may twist around the operator's fingers or get caught by the work piece being machined.

STARTING UP

Before starting up the TORQX ensure that:

- The TORQX is complete. Check that the number and type of components comply with that reported in this instruction booklet;
- The power supply conforms with the characteristics of the tool;
- The power supply cable and plug are in perfect condition;
- The ON/OFF switch works properly though with the power supply disconnected;
- All the parts of the tool have been assembled in the proper manner and that there are no signs of damage;
- The ventilation slots are not obstructed.

STARTING AND STOPPING

1. Starting: turn ON/OFF switch to "ON" by switching lever in the ON direction.
2. Stopping: To stop machine, turn power lever to the "OFF" position.

TEST RUN

Start the tool and check that there are no unusual vibrations, or no mismatching of the buffing pad. Otherwise switch-OFF the tool immediately and eliminate the fault.

ELECTRONIC RPM REGULATION

The rpm can be adjusted by adjusting the speed dial to the desired speed setting. When TORQX is in "ON" position it will engage at the speed setting that the Total Control Speed Adjust Dial is set at. The choice of speed depends on the characteristics of the buffers and the material to be worked.

REPLACING AND ASSEMBLING THE BUFFING PAD

Press the polishing pad to attach it to the backing plate. When ready, pull the used polishing pad OFF and apply the new one, or freshly clean polishing pad by pressing it onto the backing plate

⚠ CAUTION: Accessories must be rated for at least the speed recommended on the tool warning label. Accessories running over rated speed can fly apart and cause injury.

MAINTENANCE AND CLEANING

- Maintenance and cleaning of any of the inner parts of the TORQX, like brushes, ball bearings, gears, etc. Must be carried out only by an authorized repair dealer.
- Blow dirt and dust out of all air vents with clean, dry air at least once a week.

⚠ CAUTION: Never use solvents or harsh chemicals for cleaning non-metallic parts of the TORQX.

WARRANTY

TORQ Tool Company makes every effort to assure that its products meet high quality and durability standards.

Complying with current applicable regulations and subject to more favorable conditions that could apply in different countries, TORQ Tool Company supplies a 12 month warranty against manufacturing defects from date of purchase to the original purchaser. Only TORQ Tool Company original parts must be employed with TORQ tools. TORQ Tool Company is not responsible for any damages or accidents caused by not abiding to this rule and the warranty shall terminate if non-original parts are employed.

Damages caused by natural wear and tear, overloading, faulty maintenance, and tool usage differing from the one specified in the user guide, are not covered by this warranty. This warranty will not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation. TORQ Tool Company shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you.

A tool that which has been proven faulty must be delivered to a TORQ Tool Company authorized dealer with transportation charges prepaid, with original box and accessories, along with document of purchase. Warranty shall be void if tool should be delivered disassembled or tampered. The polisher's serial number must also be intact. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly

provide you with a replacement. We will return repaired products at our expense. If we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product. This warranty does not in any way imply tool's replacement. We suggest you complete the online product registration form on www.Torq-ToolCompany.com promptly to facilitate verification of the date of original purchase. However, submitting the online form for product registration does not eliminate the need for the consumer to maintain the original proof of purchase in order to obtain the warranty benefits. In the event that you do not have proof of purchase date, the purchase date for purposes of this warranty will be the date of manufacture.

TORQ Tool Company reserves the right to make specifications or design changes to its products without further notice. TORQ Tool Company does not accept any responsibility for any possible printing mistake.

Problem	Possible Causes	Likely Solutions
Tool will not start	<ol style="list-style-type: none"> 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.) 	<ol style="list-style-type: none"> 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 the 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	<ol style="list-style-type: none"> 1. Excess pressure applied to work piece. 2. Power being reduced by long or small diameter extension cord. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Forcing tool to work too fast. 2. Blocked motor housing vents. 3. Motor being strained by long or small diameter extension cord. 	<ol style="list-style-type: none"> 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 sand or polish effectively	<ol style="list-style-type: none"> 1. Accessory loose. 2. Accessory damaged, worn or wrong type for the material. 	<ol style="list-style-type: none"> 1. Confirm 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.
<p>Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.</p>		

TORQ X



Retain for your records. Do not throw this booklet away.



For your personal safety, read and understand the instruction manual before using.