HT-5501, MINI TORNO 32000RPM 40 ACCESORIOS
Variable Speed Rotary Tool Kit

User's Manual

1st Edition, 2015

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Thank you for buying PT-5501 Variable Speed Rotary Tool Kit. Please read this instruction carefully before using the product.

Technical Specification

Model number	PT-5501A	PT-5501I	PT-5501G
Available Voltages	120V, 60Hz	230V, 50Hz	230V, 50Hz
Plug Type			
Maximum Output	135 W		
No Load Speed	10,000 - 32,000 rpm		
Collet Chuck Capacity	3.2mm and 2.5mm		
Carbon Brush Model No.	5PT-5501P3		

Important! – Safety instructions for all tools

Warning: When using electric power tools, important safety precautions must always be adhered to in order to reduce the risk of fire, electric shock and personal injury.

Please read the following carefully:

1. Keep work area clean. Untidy benches and work areas cause injuries.
2. Consider work area environment. Do not use power tools in damp or wet locations. Do not expose power tools to rain. Keep work areas well lit.
3. Guard against electric shock. Prevent body contact with grounded surfaces. E.g. radiators, pipes, refrigerator enclosures.
4. Keep children away. All visitors must be kept away from the work area. Do not let visitors come into contact with the tool or extension cord.
5. Store idle tools. When not in use, tools must be stored in a dry place, out of reach of children.
6. Do not force the tool. It will do the job at hand better and safer at the rate for which it was intended.
7. Use the right tool. Do not force a small tool to do the job of a heavy duty power tool. Do not use the tool for the purpose it is not intended for.
8. Dress properly. Do not wear loose clothing or jewellery, as these can be caught in moving parts. Gloves and non-skid footwear are recommended when working outdoors. Wear protective head cover to contain long hair.
9. Use safety glasses. Also use face and dust mask to guard against dust.
10. Do not abuse the cord. Never carry the tool by the cord or pull the cord to disconnect the tool. Keep the cord away from heat, oil or sharp objects.
11. Secure your work. Use clamps or a vice to hold your work in position. It is much safer than using your hand and it frees both hands to operate the tool.
12. Do not overreach. Keep proper footing and balance at all times.
13. Maintain tools with care. Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Keep hands dry, clean and free from oil and grease.
14. Disconnect tools. When not in use, before servicing and when changing any accessories.
15. Remove adjusting keys and wrenches. Have the habit to check and see that keys and adjusting wrenches are removed from the tool before turning on.

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16. Avoid unintentional starting. Do not carry plugged-in tool with finger on switch. Be sure that the switch is off when plugging in.
17. Outdoor extension cords. When the tool is used outdoors, only use extension cords intended for use outdoors and so marked.
18. Stay alert. Watch what you are doing. Use common sense. Do not operate the tool when you are tired.
19. Check damaged parts. Before using the tool, a guard or other part that is damaged, these must be carefully checked to ensure that the tool will perform properly the intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other condition that may affect the tool's operation.
20. DO NOT OPERATE portable electric tools near flammable liquids or in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks may ignite fumes.

Multifunction power tool use

This rotary tool can be used for drilling, grinding, sanding and polishing, as well as engraving, cutting and removing rust in tight spaces or inaccessible places. The tool can be used on most metals, glass, wood and ceramics. For best performance and results, please keep the speed as even as possible without exercising too much pressure. As a guideline, use the tool at low speed for all large accessories, such as polishing for example, and at high speed for smaller accessories such as those used for engraving. For grinding and engraving, hold the tool as if it were a pen.

Multifunction power tool start-up

Never start up or stop the tool when the accessory is in contact with the piece to be worked on. Hold it firmly and press the ON/OFF switch. The tool will run continuously until the switch is turned to OFF position. The speed can be adjusted while the tool is running.

Speed adjustment

The multifunction power tool is equipped with speed control. Do not change the speed while the tool is working. The speed switch is located on the rear of the tool. Turn it to increase or reduce speed. Use the tool at low speed for polishing and similar operations, but use higher speed for drilling or cutting action.

Important general safety tips!

1. The tool should be unplugged when changing accessories.
2. If the tool stalled, switch the power off immediately.
3. Periodically check the tightness of your collet chuck, especially during prolonged use of the same accessory
4. After use, always disconnect your power tool.
5. Do not undertake to repair the power tool by yourself.
6. Do not leave your tool unattended while switched on.
7. Do not use or store your tool in damp or wet conditions.

Useful hints & tips

1. Your rotary tool will become warm after prolonged use, please switch off and allow to cool down after long term use
2. To ensure smooth running, the spindle should be oiled periodically.

3. Do not apply too much radial pressure to the accessory bits while polishing, cleaning, sanding or grinding. By doing this you will put a strain on the spindle and adversely affect the precision of the tool.
4. Always work with a sensitive touch so as not to impede the efficiency of your mini tool.
5. When drilling metal, always mark the drilling point with a center punch first, so that your rotary tool does not slip.
6. Always ensure that you have maximum contact between the accessory shaft and the collet chuck.

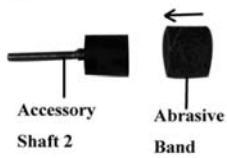
Placing accessories into the tool

Always switch the tool off first. Hold the locking button at the front of the tool and undo the collet chuck (anti-clockwise). Insert the collet that matches the shaft size of the accessory to be used. Place the collet nut over the collet and then insert the accessory shaft into the collet chuck ensuring maximum shaft contact. Then tighten up the collet nut. (DO NOT USE PLIERS).

Assembling abrasive bands to accessory shaft 2 (figs. 1)

1 Slide the abrasive band over the rubber section of the accessory shaft 2.
2 Ensure the abrasive band fits straight and evenly over the rubber portion of the shaft.

Figure 1



Assembling polishing felts to accessory shaft 3 (figs. 2)

1 Screw the polishing felt onto the tip of the accessory shaft 3.
2 The tip of the shaft should not protrude through the felt. Do not cover-screw the felt.

Figure 2

Assembling the flexible shaft assembly (figs. 3)

1. Switch off the tool and disconnect from the main power supply.
2. Unscrew and remove the securing ring.
3. Push the spindle lock and hold. Rotate the spring chuck so that it locks into place.
4. While the spindle lock is engaged, use the wrench (supplied) to loosen the spring chuck.(Do not remove the spring chuck).
5. Fit the inner cable of the flexible shaft firmly through the spring chuck and into the collet, ensuring that it is a firm fit.
6. Push the spindle lock and hold. Rotate the spring chuck so that it locks into place.
7. While the spindle lock is engaged, use the wrench (supplied) to tighten the spring chuck.
8. Slide the outer cable of the flexible shaft over the spring chuck and tighten the securing ring onto the flexible shaft.

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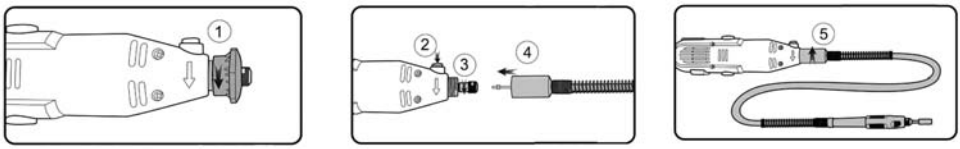


Figure3

Fitting the accessories to the flexible shaft (figs. 4)

1 Switch off the tool and disconnect from the main power supply.
2 Pull back the protective sleeve and loosen the spring chuck.
3 Insert the required accessory and tighten the spring chuck.

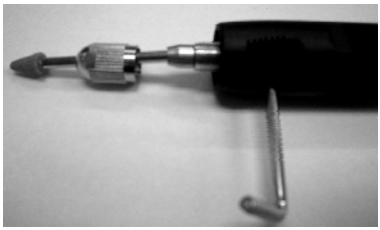
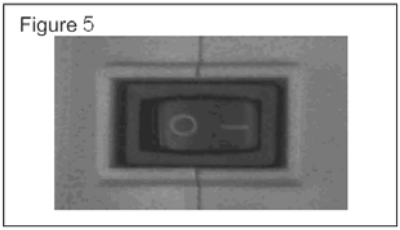


Figure4

Switching On/Off (figs. 5)

1 Hold the tool firmly and ensure your fingers are well away from moving parts.
2 Switch on by pressing the on/off switch to the " I " position.
3 Switch off by pressing the on/off switch to the " O" position.



Variable speed control (figs. 6)

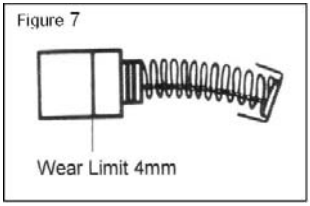
1 To adjust the speed, move the speed dial forwards or backwards.
2 The greater the number displayed, the faster the speed.

Note: The speeds quoted are for guidance purposes only.

Important! Working on a high load whilst at low speed can cause motor burnout.
Overload The motor of this tool may be damaged if overloaded. Manual pressure on this tool **will not** result in faster operation. Forcing the tool will only result in reduced efficiency and could cause motor burnout, substandard work, shorter tool life and possible injury.

Avoiding Motor Damage: If you are running the tool continuously at low speed, it's important to occasionally take the tool off load. Running the tool off load at full speed for approximately one minute creates a cooling air flow for the motor.

Carbon Brushes (fig. 7)



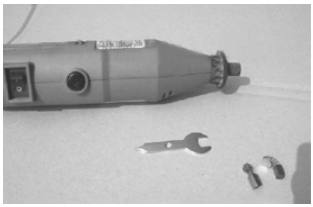
The carbon brushes are an integral component in the efficient running of the motor. These are consumable spare parts that must be replaced when they are worn to 4mm.

NOTE: Worn carbon brushes should only be installed by an authorized power tool repair agent.

NOTE: After replacing the carbon brushes there may be increased sparking. This is normal and should pass after a short period of time.

NOTE: After new carbon brushes have been installed, run the Mini-Grinder off load for several minutes to allow the new brushes to bed in before use.

How to replace motor carbon brush



1. Prepare a wrench and a pair of new carbon brushes.

2. Loosen the cap of carbon brush by the bottom side of wrench.

3. After taking out the cap, you can see the carbon brush inside of the hole, pull out the carbon brush.

4. Put the new carbon brush into the at same location

5. Put the cap back on the hole and tighten the cap. Please replace carbon brushes for both side at the same time.

General maintenance & care

1 Always clean the tool after each use.
2 Exercise due care to ensure the motor does not become damaged by oil or water.
3 Regularly inspect the tool for damage which may be caused from normal use. Ensure that all parts are connected correctly and do not use this product should parts be damaged or missing.
4 Keep the air vents clear of any obstructions.
5 Consult an authorized power tool repair agent in the event of damage or failure.

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