TRUPER INDUSTRIAL 16673 Variable Speed Polisher Instruction Manual

Contents

TRUPER INDUSTRIAL 16673 Variable Speed Polisher

Product Information

The Variable Speed Polisher with code PULA-7N has a power of 1.6 Hp and a diameter of 7 inches. It is designed to be used for polishing and has a speed range of 960 RPM – 3,300 RPM. The polisher has a screwed thread size of 5/8-11-UNC-1A and can work for up to 50 minutes with a duty cycle of 20 minutes idle time. It has reinforced insulation, thermal insulation on motor winding Class H, and an IP20 grade insulation. The power requirements for the polisher are 127V voltage and 60Hz frequency, with a current of 10A.

Product Usage Instructions

Before operating the tool, please read the user manual thoroughly. It is essential to gain the best performance of the tool, prolong its duty life, make the warranty valid if necessary, and avoid hazards of fatal injuries.

Parts Assembly

Assemble the parts according to the instructions provided in the user manual.

Start-Up

Before turning on the polisher, ensure that your work area is clean and well-lit. Remove any wrench or vice attached to rotating parts of the tool. Connect the power cable to a grounded extension cable labeled for outdoor use if operating outdoors.

Maintenance

Keep the polisher clean and free from debris. Do not expose it to rain, liquids, or dampness. If the power cable gets damaged, replace it only with a new one from the manufacturer or an authorized service center.

Authorized Service Centers

If you need repairs or replacement parts for your polisher,contact an authorized service center for assistance.

Warranty Policy

Read the warranty policy provided in the user manual to understand the terms and conditions of the warranty.

General Power Tool Safety Warnings

Read all safety warnings and instructions listed in the user manual carefully before operating the tool. Keep your work area clean and well-lit to avoid accidents.

CAUTION
To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.
The illustrations in this manual are for reference only. They might be different from the real tool.

Technical Data

PULA-7N

Code	16673			
Description	Polisher			
Diameter	7″			
Voltage	127 V~			
Frequency	60 Hz			
Current	10 A			
Power	1.6 Hp			
Speed	960 RPM - 3300 RPM		Screwed thread size	5/8-11-UNC-1A
Duty cycle	50 minutes work per 20 minutes idle. Maximum 6 hours per day.			
Conductors	18 AWG x 2C with insulating temperature of 221 °F			
Insulation	Class II		IP Grade	IP20

Power Cord Grips used in this product: Type Y.
Tool Build Quality: Reinforced insulation.
Thermal insulation on motor winding: Class H.

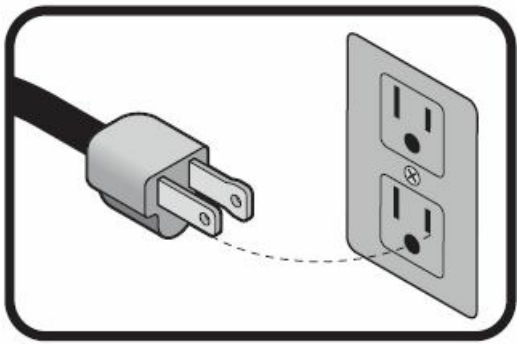
WARNING

- Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a Authorized Service Center.
- The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use.
- Do not expose to rain, liquids and/or dampness.
- Before gaining access to the terminals all power sources should be disconnected.

Power Requirements

WARNING Tools with double insulation and reinforced insulation are equipped with a polarized plug (one prong is wider than the other). This plug will only fit in the right way into a polarized outlet. If the plug cannot be introduced into the outlet, reverse the plug. If it still doesn't fit, call a qualified electrician to install for you a polarized outlet. Do not alter the plug in any way. Both insulation types eliminate the need of both a grounded third power cord with

three prongs or a grounded power connection..



WARNING When using an extension cable, verify the gauge is enough for the power that your product needs. A lower gauge cable will cause voltage drop in the line, resulting in power loss and overheating. The following table shows the right size to use depending on cable's length and the ampere capability shown in the tool's nameplate. When in doubt use the next higher gauge.

Ampere Capacity	Number of Conductors	Extension gauge	
		from 6′ to 49′	higher than 49′
from 0 A and up to 10 A	3 (one grounded)	18 AWG(*)	16 AWG
from 10 A and up to 13 A		16 AWG	14 AWG
from 13 A and up to 15 A		14 AWG	12 AWG
from 15 A and up to 20 A		8 AWG	6 AWG

It is safe to use only if the extensions have a built-in artifact for over current protection.
AWG = American Wire Gauge. Reference: NMX-J-195-ANCE

WARNING When operating power tools outdoors, use a grounded extension cable labeled "For Outdoors Use". These extensions are especially designed for operating outdoors and reduce the risk of electric shock.

General power tool safety warnings

WARNING! Read carefully all safety warnings and instructions listed below. Failure to comply with any of these warnings may result in electric shock, fire and/or severe damage. Save all warnings and instructions for future references.

Work area

- Keep your work area clean, and well lit.
- Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Sparks generated by power tools may ignite the flammable material.
- Keep children and bystanders at a safe distance while operating the tool.
- Distractions may cause loosing control.

Electrical Safety

- The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.
  Modified plugs and different power outlets increase the risk of electric shock.

- Avoid body contact with grounded surfaces, such as pipes, radiators, electric ranges and refrigerators.
  The risk of electric shock increases if your body is grounded.
- Do not expose the tool to rain or wet conditions.
  Water entering into the tool increases the risk of electric shock.
- Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts.
  Damaged or entangled cords increase the risk of electric shock.
- When operating a tool outdoors, use an extension cord suitable for outdoor use.
  Using an adequate outdoor extension cord reduces the risk of electric shock.
- If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply.
  Using a GFCI reduces the risk of electric shock.

Personal safety

- Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
  A moment of distraction while operating the tool may result in personal injury.
- Use personal protective equipment. Always wear eye protection.
  Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.
- Prevent unintentional starting up. Ensure the switch is in the “OFF” position before connecting into the power source and / or battery as well as when carrying the tool.
  Transporting power tools with the finger on the switch or connecting power tools with the switch in the “ON” position may cause accidents.
- Remove any wrench or vice before turning the power tool on.
  Wrenches or vices left attached to rotating parts of the tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times.
  This enables a better control on the tool during unexpected situations.
- Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts.
  Loose clothes or long hair may get caught in moving parts.
- If you have dust extraction and recollection devices connected onto the tool, inspect their connections and use them correctly.
  Using these devices reduce dust-related risks.

Power Tools Use and Care

- Do not force the tool. Use the adequate tool for your application.
  The correct tool delivers a better and safer job at the rate for which it was designed.
- Do not use the tool if the switch is not working properly.
  Any power tool that cannot be turned ON or OFF is dangerous and should be repaired before operating.
- Disconnect the tool from the power source and / or battery before making any adjustments, changing accessories or storing.

These measures reduce the risk of accidentally starting the tool.

- Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool.
  Power tools are dangerous in the hands of untrained users.
- Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool.
  Most accidents are caused due to poor maintenance to the tools.
- Keep the cutting accessories sharp and clean.
  Cutting accessories in good working conditions are less likely to bind and are easier to control.
- Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions.
  Using the tool for applications different from those it was designed for, could result in a hazardous situation.

Service
Repair the tool in a Authorized Service Center using only identical spare parts.
This will ensure that the safety of the power tool is maintained.

This tool is in compliance with the Official Mexican Standard (NOM – Norma Oficial Mexicana).

Safety warnings for polishers

- This power tool is intended to function as a polishing tool. Read all safety warnings, instructions, illustrations, and specifications provided with this tool.
  Failure to follow the instructions below may result in electric shock, fire and/or serious injury.
- Never have the car running when using the polisher in an enclosed place.
- Before starting the polishing job, make a test. In the event the tool makes strange sounds or vibrates in an unusual way, please turn it off. Disconnect it and take it to a Authorized Service Center.
- It is not recommended to perform the operations such as grinding, sanding, brushing or cutting to be done with this tool. Operations for which this power tool was not designed may result in an accident and cause personal injury.
- When not in service the tool shall be turned off and disconnected.
- Prevent unexpected starting. Keep your fingers away from the On /Off switch when connecting the tool into the power outlet.
- To prevent electric shock, keep the tool dry and clean, free of any oil or grease residue.

CAUTION

- The assigned speed of the attachment must be at least equal to the speed marked on the power tool.
  Accessories that operate faster than their assigned speed may break or come off.
  The outside diameter and thickness of the fittings must be within the rated capacity of the tool.
  Incorrectly sized fittings cannot be properly protected or controlled.
- Keep the power cable away from the tool trajectory while polishing. Otherwise the disc can trap and cut the cable exposing the user to electric shock.
- Do not force the tool. Hold it firmly by both handles. Do not use force downwards, otherwise the tool movement

will slow down, reducing quality in the job and severely damaging the tool.

- Take good care of the tool. The job is easier if it is in good conditions.
- Never release the tool until the attachment comes to a complete stop.
  The rotary attachment may catch on a surface and knock the power tool out of control.
  Do not operate the power tool while carrying it beside you. Accidental contact with the rotary attachment may catch on clothing, pulling the attachment toward your body.
  Clean the power tool's vents regularly.
  The motor fan directs dust into the housing, and excessive accumulation of metal dust can result in an electrical hazard.
- Do not use accessories which are not specifically designed and recommended by the tool manufacturer. The fact that an accessory item may fit the power tool is not an assurance of safe operation.
- Do not attach a woodworking saw blade or serrated blade. Such blades create frequent kickback and loss of control.
- Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.
- Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings. Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

WARNING

- Wear safety glasses.
- Use personal protective equipment. Depending on the application, use face shield, safety glasses. As appropriate, use a dust mask, hearing protection, gloves and workshop apron capable of stopping small abrasive fragments or pieces of work.
  Eye protection must stop the waste generated by the various operations. Dust masks or respirators must filter out the particles produced by the operation. Prolonged exposure to high intensity noise can cause hearing loss.
  Keep people present at a safe distance from the work area Anyone entering the work area should wear personal protective equipment.
  Work piece fragments or a broken attachment can become detached and cause damage beyond the immediate area of operation.

Kickback and related warnings

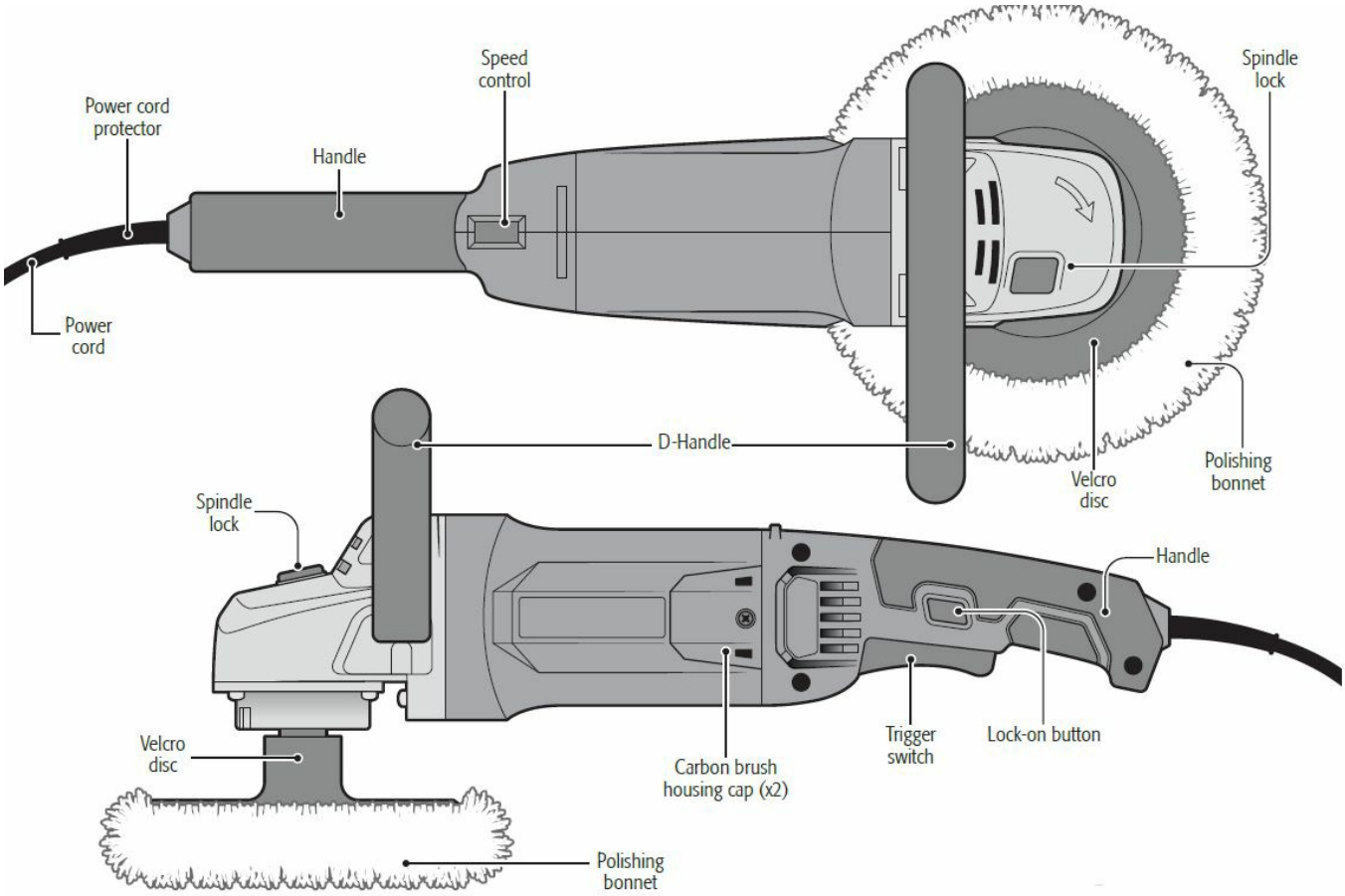
Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use D-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.
- Put the power cord away from the rotating accessory. If control of the power tool is lost, the cord may be cut or entangled and the operator's arm or hand may be pulled into the rotating accessory.
- Do not use the power tool near flammable materials. Sparks can ignite these materials
- 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.

- Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges and bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- Never place your hand near the rotating attachment.
  The accessories may kick back in your hand.

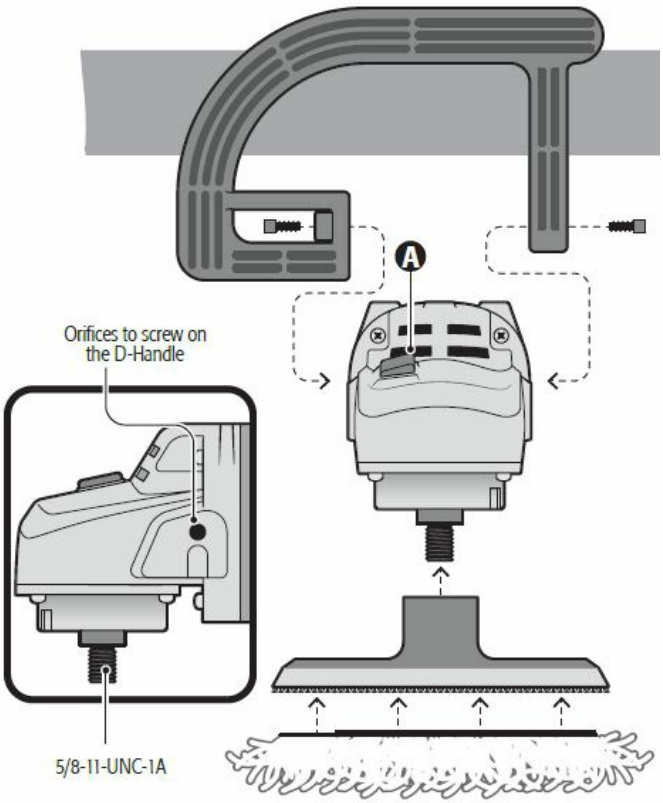
Parts



Assembly

D-Handle assembly

- Align the D-Handle with the polisher head and match the screw orifices.
- Screw firmly the D-Handle to the polisher head using the included screws.



Disc Assembly

- Adhere the bonnet to the Velcro disc.
- Press the spindle lock (A) and mount the disc into the polisher head. Screw it tight.
- To remove the disc, press the spindle lock and unscrew the disc.

CAUTION

- The spindle lock can only be tightened when mounting or dismounting the disc. It shall never be pressed to stop the disc while polishing. Otherwise the tool may get damaged and exposes you to personal injury.
- The mounting (installation) threads of the fittings must match the threads of the shaft (spindle). For fittings that are installed with flanges, the shaft entry hole to the fitting must match the flange diameter.
- Fittings that do not match the power tool installation devices cause imbalance, excessive vibration, and may cause loss of control.
- Do not use a damaged accessory. Inspect accessories, for example, before each use:
    1. Check for damage and cracks.
    2. Check the backrests for cracks, tears or excessive wear.
    3. Check base for cracks.
- If power tool or attachment is dropped, inspect for damage or install a attachment with no damaged. After inspecting and installing an attachment, stay clear and keep people away from the plane of the rotating attachment, run the power tool at maximum speed without load for one minute.
- Damaged attachments usually break during this time.

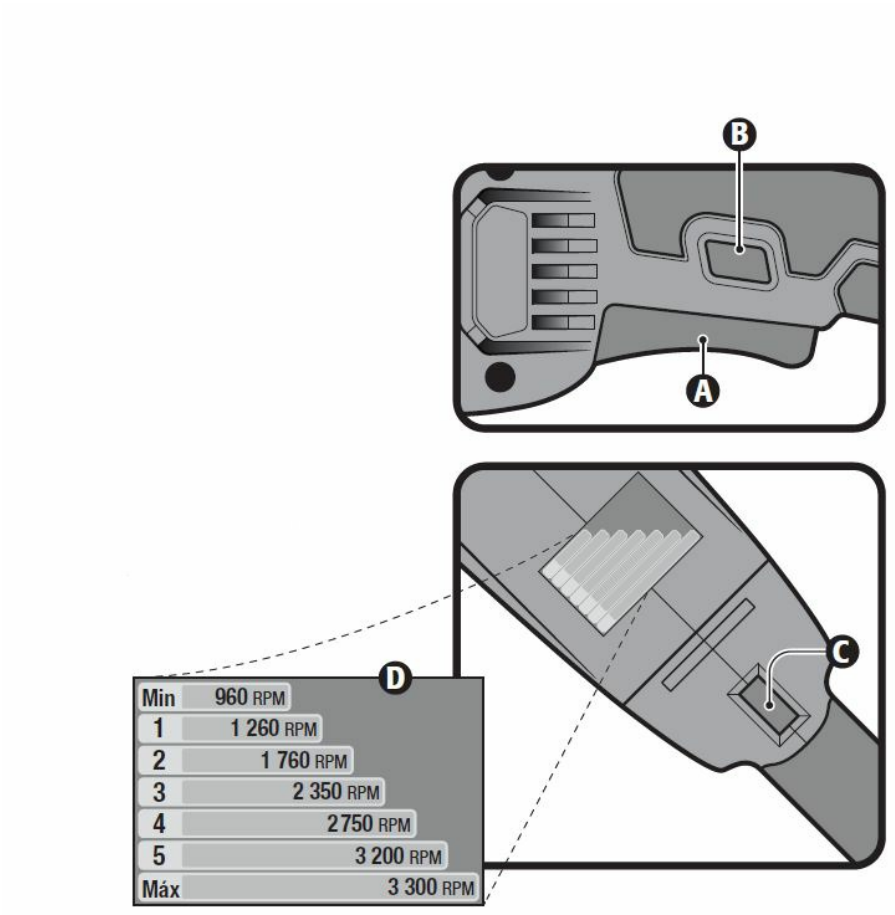
Start-Up

Start up and operation control

- Intermittent operation:
  Connect the plug into the power outlet.
  Press switch (A) to start the tool. To stop, release the switch.
- Continuous operation:
  Connect the plug into the power outlet.
  Press switc (A) and block it pressing the continuous use button (B). To stop, press and release the switch.

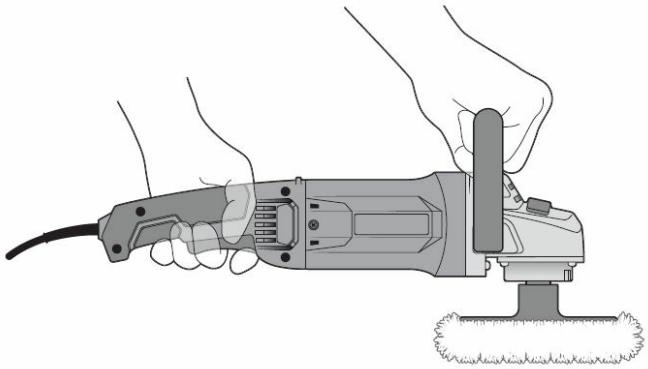
Speed control

- The tool operates with different speeds. Select the speed adjusting the speed control (C). Refer to the speed control table (D) to adjust the speed control.
- As a general recommendation, use slow speeds for reduced work areas; high speeds for large surfaces. Select the speed more suitable for the job.



How to correctly hold the tool

- Always hold the tool with both hands. One hand holds the handle and the other hand holds the D-Handle . Use care not to obstruct the ventilation slots.



Polishing

- Move the polisher forwards and backwards onto the work surface. Use long strokes.
- Keep in mind that an excessive pressure, a wrong angle or inadequate movements may cause whirl marcs or burns in the finish. To prevent these, do not use high speeds when polishing small areas. Lightly press the bonnet onto the surface and keep the polisher in constant movement. Do not leave it static in one place, close to edges or when there are changes in the work surface.
- Follow the polishing products instructions to get a high quality job.

CAUTION

- Use care when polishing rough surfaces; with joints or twists and turns. The bonnet can get stuck. A stuck bonnet may cause loosing control over the tool and / or burning the finish. To reduce these risks use low speeds in rough surfaces. For complicated surfaces like mirrors or mouldings avoid using the tool and polish manually.
- The most common error is applying too much wax. If pad adsorbs too much wax, it will not last as long, and polishing will be more difficult and will take longer.

Maintenance

- Always disconnect the tool before cleaning it.
- Never use water or other liquids. Use a brush only.
- To prevent motor overheating clean regularly the ventilation slots.
- Double-check the entire tool components are perfectly tight.
- The tool housing shall not be cracked or damaged.
- Always verify the power cord is not cut or peeled.
- After a prolonged time of use, the grease in the head shall need to be changed. Go to a Authorized Service Center to service it.

Repairs
Use only spare parts and accessories recommended by the manufacturer. In the event the tool is not working take it to repairs in a Authorized Service Center.

Carbon brush replacement

- Carbon brushes need to be replaced. Replace with new carbons when worn, burnt, broken or smaller than 0.19” long.
- When replacing always replace both carbon brushes.
- Use a screwdriver to remove the cover of the coals
- Remove worn carbon brushes off the carbon housing. Remove accumulated dust with compressed air.

- Set the new carbon brushes reversing the order. Carbons shall drop easily in the carbon housing.
- After setting the new carbons run the car polisher a few minutes with no load to get better fit.
- Use only original replacement carbon brushes specifically designed with the hardness and electric resistance for each type of motor. Carbon brushes that are out of specification may damage the motor.

Storage
Neatly store the tool in a dry place and protected from dust and water .

Authorized Service Centers
In the event of any problem contacting a Truper Authorized Service Center, please see our webpage www.truper.com to get an updated list, or call our toll-free numbers 800 690-6990 or 800 018-7873 to get information about the nearest Service Center.

Warranty policy

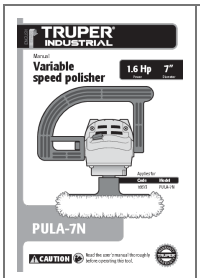
Code	Model	Brand
16673	PULA-7N	

Warranty. Duration: 5 year. Coverage: parts, components and workmanship against manufacturing or operating defects, except if used under conditions other than normal; when it was not operated in accordance with the instructive; was altered or repaired by personnel not authorized by Truper®. To make the warranty valid, only present the product in the establishment where you bought it or in Corregidora 22, Centro, Cuauhtémoc, CDMX, 06060, where you can also purchase parts, components, consumables and accessories. The costs of transportation of the product that derive from its fulfillment of its service network are included. Truper will not require any proof of purchase to make the warranty effective. Phone number 800-018-7873. Made in China. Imported by Truper, S.A. de C.V. Parque Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Méx. C.P. 54257, Phone number 761 782 9100.

Stamp of the business. Delivery date:

www.truper.com

Documents / Resources

	**TRUPER INDUSTRIAL 16673 Variable Speed Polisher** [pdf] Instruction Manual 16673 Variable Speed Polisher, 16673, Variable Speed Polisher, Speed Polisher, Polisher

References

- **Truper® - Es mucha herramienta**