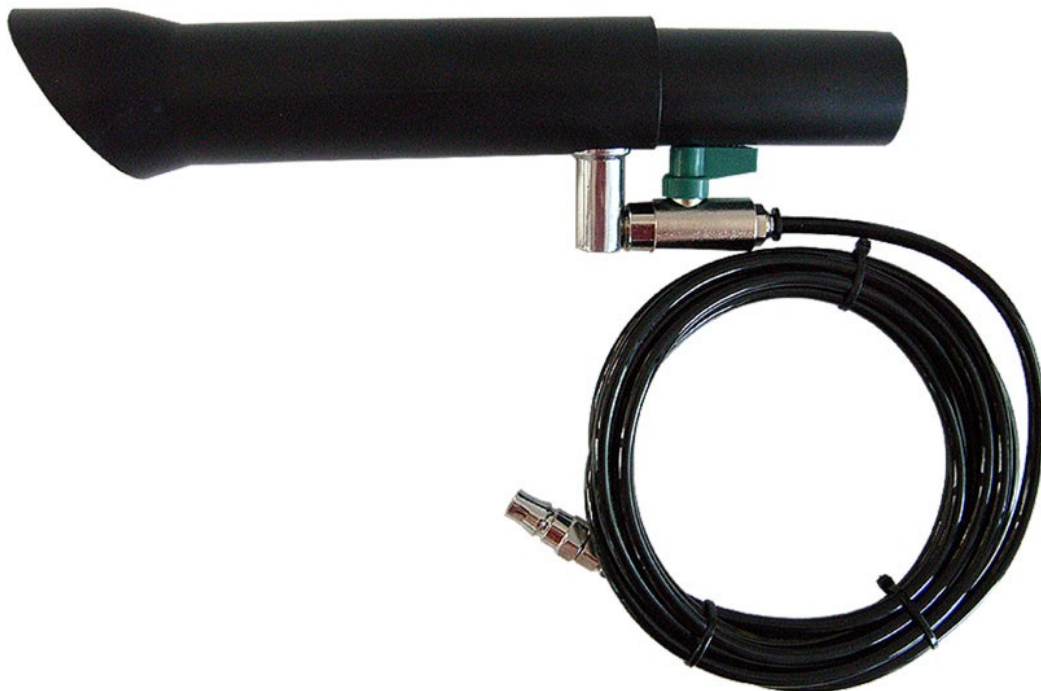


Tornador-Z-017

Vacuum-Attachment

Original-Instruction Manual



Tornador® Clean LLC

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Read and understand these instructions before operating the tool.



General safety instructions and individual safeness

Attention

- You need to read, understand and follow the complete instruction manual and the safety briefing BEFORE USE. Afterwards the instruction needs to be kept at a adequate place, accessible for any user.
- The unit may only be used, cleaned and maintained by persons who understand and follow this instruction. The operator must be in physically condition to utilize the tool.
- Improper use or unauthorized modification will cause serious health damage by yourself, somebody else or animals and other property.
- Individual safety instructions from the related countries needs to be observed additional.
- Make sure that the tool is out of range for children or other persons who are not familiar with the handling of the unit. Switching on the device by such persons is dangerous.

Workplace hazards:

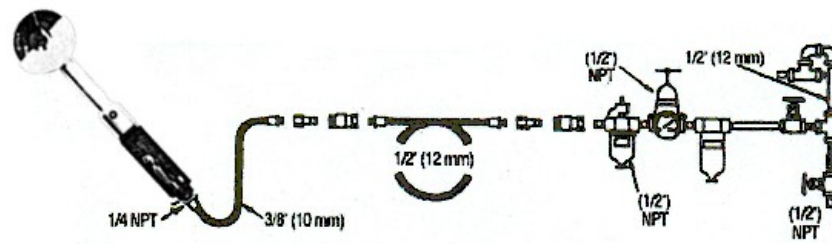
- Slipping, stumbling or collapsing are the main reasons for serious or deadly accidents. Take care for hoses which maybe are in the near operating area.
- Maintain a balanced body position and secure footing.
- Cyclic courses of movements, inappropriate posture and constant vibrations will cause fatigue to arms, hands and body.
- High sound levels can lead to permanent hearing loss. Use hearing protection as recommended.
- Avoid breathing in dust or handling debris from work process which can be harmful to your health.
- This tool may only be used and maintained by qualified people who are in the constitutional position to handle the dimension, weight and force of the device.
- This tool is not intended for use in explosive atmospheres and is not insulated for contact with electrical power sources.
- Please consider that the material your tool is made of always can have material tiredness.

Projectile hazards:

- Even small projectiles, for example swirled by the outlet air of your tool, can injure eyes and lead to blindness.
- Always wear impact-resistant eye and face protection when involved with or near the operation, repair or maintenance of the tool or changing accessories on the tool.
- Also take care that people surrounding you will follow the instruction to wear impact-resistant eye goggles and face masks.
- Only use accessories which is convenient to the tool in dimension and technical requirement.
- In case of a male function switch off the device immediately and provide the tool to a authorized service station to check.
- If you recognize high unusual vibration switch of the unit and look for the reasons. Do not switch on again until before the problem is solved.

Individual safeness

- Only use the tool in well-rested conditions.
- Always take care what you are doing and use your commonsense.
- Do not use the tool when you are tired or under the influence of medicine, alcohol or drugs. Any carelessness will cause serious hurts.
- Always wear adequate protective clothing and eye protection. Further protection like dust masks, helmets, ear protection, work gloves or nonskid safety shoes may be required. Pls. refer to the pictograms in this manual. Even if these clothing's are not especially required we highly recommend to use them as the risk of injury will decrease formidable.
- Always disconnect the device from air supply when not in use, before changing accessories or maintenance to avoid starting the tool by mistake.
- Always check the unit, hoses and fittings for damages or loose before use.
- Make sure that any spanners or other parts you have used with the tool will be removed before operating.
- Do not super extend and take care on a balanced position and secure footing to control the tool also in unexpected situations.
- Long hairs and loose clothing could tangled up in rotating parts of the device and cause serious hurts.



Exemplary drawing.

Air supply requirements

- Supply tool with a maximum pressure according to the technical data of this unit of clean, dry air. Higher pressure drastically reduces tool life and/or can cause several injury.
- Connect tool to air line using pipe, hose and fitting sizes shown in the diagram above.
- Do not install a quick coupler directly into the air tool handle.
- In order to have the tool working to full satisfaction the minimum air delivery must be at least 10% higher than the indicated air consumption of the air tool.
- Please consult the technical data in this instruction manual.

Pneumatic tool and safety instructions

- The goal of Bendel Werkzeuge is to offer tools that help your work safely and efficiently.
- The most important safety device for this or any tool is YOURSELF.
- Your care and good judgment are the best protection against injury. All possible hazards cannot be considered here, but we have tried to highlight some of the most important ones.
- This tool may only used by qualified people.
- This tool and its accessories must not be modified.
- Do not lay down the device before all the rotary parts stopped.
- Do not keep the air tool running while carrying it.
- Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary 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.
- Never place your hand near the rotating accessory. Accessory may kickback over your hand.
- Switch off the unit immediately in case of blocking or twist. Disconnect the air supply and do not switch on again until the problem is solved. Understand the reason why the tool has been blocked and make sure that this situation will not occur once more by counteract accordingly.

Air supply and connection hazards:

- Air under pressure can cause several injury !
- Always shut off air supply, drain hose of air pressure and disconnect tool from air supply, when not in use, before changing accessories or maintenance.
- Never put direct air at yourself or anyone else.
- Whipping hoses can cause serious injury. Always check for damaged or loose hoses and fittings.
- Do not exceed maximum air pressure according on the name plate respectively 8 bar.
- Do not use quick disconnect couplings directly at the tool. See instructions for correct set-up !

For additional safety information consult:

- Your employer, union and/or trade association.
- Council of the European communities and/or local codes
- „Safety requirements for hand-held non-electric Power Tools", available from:
European committee for standardization, Rue de Stassart 36. 1050 BRÜSSEL,
BELGIEN.
<http://www.cen.eu/cenorm/homepage.htm>

Maintenance:

- Damaged or worn out parts should be replaced only by licensed original parts. Get in contact with your dealer or a authorized service station for support. Using unlicensed parts male functions could occur followed by possible hurts of health.
- Check the tool regularly to recognize cracks, unusual clearance, mismatch and to check the rotary parts for proper operation..
- Recognizing a abnormality the unit needs to be provided to a authorized service station before using it again. Please consider that many accidents are cause by insufficient maintenance.

Tool applications:

- Pneumatic-Vacuum-Cleaner: To clean carpets in automobiles



You must observe the following points in the interest of your own safety!!!

Safety instructions:

- The Z-017 causes considerable noise pressure.
Please wear hearing protection in order to avoid noise which can be damaging to your health.
- When working with the Z-017, small parts may be whirled into the air: Wear protective goggles to prevent eye injuries.
- Only use the Z-017 in ventilated spaces.
- Never operate the Z-017 with more than 8bar.
- Never point the Z-017 towards the face or body.
- Keep the Z-017 out of the reach of children.

We recommend you never clean any safety-related components, e.g. safety belts, electrical or electronic modules, with the Z-017.

Special instructions:

The written and spoken information and recommendations which we provide to support the purchase/user, are the result of previous experience and the latest findings. Because of the manifold possibilities for use and processing conditions, this information is without obligation and do not constitute a contractual legal relationship or any supplementary obligations of the sales contract.

In any event, the purchaser holds responsibility for checking suitability for the intended use himself. Always read the safety warnings for cleaning liquids and contact the manufacturer in case of doubt.

Our liability and responsibility is based exclusively on our general terms and conditions of business and are not expanded on by either this information or the technical advice of our technical field staff.

Operating instructions:

1. Remove loose soiling from the surface you wish to clean (brush or vacuum clean)
2. Important: Hold the cleaning spout at a distance of only 1-3 cm from the surface you are cleaning.
3. Press the "trigger" all the way; move the Z-017 slowly with circular motions over the surface you are cleaning.

REQUIRED AIR RATE

To perform to its full potential, the Z-017 requires a constant air pressure of 6-8 bar.

CAUTION: Constant air rates vary depending on the size and power of the compressor. Always make sure that the tank and the air hoses are free of impurities of any kind.



Explanation of the pictograms:

Always use hearing protection, face and eye-protection, dust-mask, if necessary a hair-net, protective gloves and read / understand the instruction manual.

Technical Data

Air inlet	1/4"
Air pressure / max. pressure	90 PSI (6,3bar) / 114 PSI (8bar)
Air consumption	270 L/min
Weight	0,4 Kgs.
A weighted emission sound pressure level at the operators position in decibel (LpA)	93.59 dB (EN ISO 15744)
A weighted sound power level in decibel (LwA)	104.58 dB (EN ISO 15744)
Peak C-weighted instantaneous sound pressure level at workstation (LpC)	96.3 dB (EN ISO 15744)
Vibration level	0.99 m/sec ² (EN 8662-1)
Measurement uncertainty (Standard)	0.495 m/sec ² (EN 8662-1)
Serial number	WR017-03701 to WR017-04700

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