Pro-Tech TOOLS

Hydraulic compressor, spring puller 1t



Instructions for use

Translation of the original instructions

GENERAL SAFETY RULES

Attention:

Read the following instructions carefully and understand all the rules for safe use. Failure to follow this information may result in damage to the equipment and personal injury. After reading, keep the manual in an easily accessible place so that you can always refer to it when using the tool. Working with the puller may not be safe - the tool is intended for use by trained service personnel only.

The device is designed to compress car struts (springs with shock absorbers) that have been previously removed from the vehicle.

THE MEANING OF SYMBOLS



Attention!

This symbol indicates information on hazardous working conditions and dangers as well safety instructions.

Wear eye protection

Always wear goggles or a mask to protect your eyes from flying elements. Wear work gloves

Avoid loose clothing, ties, jewelry, etc. Wear full slip-resistant footwear.

Read and understand the operating instructions

The user is obliged to observe the operating instructions and instruct all users of the tool on the principles of its use in accordance with these operating instructions.

WORKPLACE

- Keep the workplace tidy. A blocked workplace can cause an accident.
- Pay attention to workplace conditions. Do not use the puller in damp or wet areas. Do not expose to precipitation.
- The workstation should be dry, well lit and ventilated.
- Do not use the tool in the presence of children and do not allow them access to the equipment.
- Before any work, perform a visual inspection to detect cracks or bends in the material. If cracks in the paint are found, a detailed inspection of the element should be carried out, most often the paint is peeling and this means
  Hiding.

SAFE USE

- Use the puller only for the purpose for which it was designed.
- Do not overload the device. Observe the permissible diameters of the springs to be compressed. The puller is designed for use with passenger car springs and shock absorbers.
- Do not compress the struts that are mounted in the vehicle.
- Do not use the hoist as a lift and do not move people or animals with it.

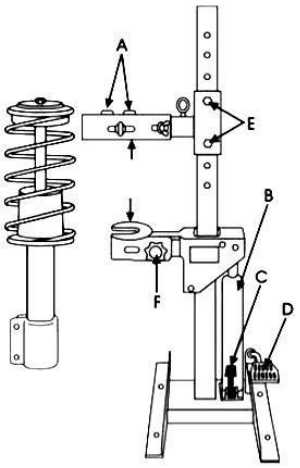
- Do not work when you are tired, under the influence of alcohol, drugs, or other substances that reduce concentration, including some painkillers.
- Wear loose clothing, no ties, watches or jewellery. Keep your hair long.
- Always wear eye protection. There is a risk of chipping when working with the load.
- Keep your balance and do not reach over the tools. Do not place any body parts under the compressed springs - bruising can occur!
- When working with the load, be vigilant at all times, watch and check the equipment.
- Do not leave the puller unattended.
- Protect tools from heat and fire. This can damage the seals.
- Do not modify the equipment or use accessories that are not for it.

SERVICE

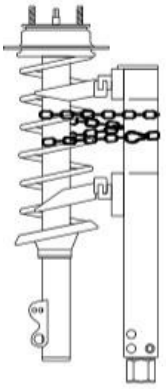
Check the tools before each use. If it is cracked, bent, leaking, or otherwise damaged, do not start work. Defects must be corrected immediately.

Disassembly of the strut:

- Loosen the damper screw, but do not unscrew it completely. The compressed spring has stored energy that will cause it to shoot out when the bolt is unscrewed. This can cause damage to the equipment and personal injury.
- The compressed strut should be clean and free of grease. Dirt can cause the strut to fall out of the brackets (A).
- Adjust the handles to the size of the strut, secure them in the arms.
- Press the release lever (C) to lower the actuator to the lower position.
- Adjust the height of the upper arm to the height of the strut. Tighten the screws
- Position the strut vertically between the handles so that it is parallel to the guide. The shock absorber bolt should be up as shown in the illustration.
- Secure the strut with chains to ensure maximum safety.
- Slowly start pumping the foot lever until both flanges of the spring touch the handle.



- If the strut is mounted straight and secure, begin compressing by pumping the foot lever (D).
- After pressing, unscrew the damper screw completely.
- To remove pressure from the strut, slowly press the release lever (C). Monitor this process at all times, releasing it too quickly can cause the spring to shoot out.
- When the actuator moves to the lower position, you can remove the extended strut from the equipment brackets.



Assembly of the strut:

- Assemble the strut with all components in mind.
- Press the strut until the shock absorber bolt can be fitted.
- Install and tighten the shock absorber bolt sufficiently to safely release the spring pressure.
- Slowly remove the load from the strut until it can be removed from the brackets.
- Tighten the damper nut to the torque specified by the manufacturer.

MAINTENANCE AND STORAGE

- Keep the machine clean. Pay particular attention to the handles and arms. They should be free of grease and dirt.
- Use light oils to lubricate pins, guides and other moving parts.
- Check the piston periodically for signs of corrosion. Clean it with a clean cloth dipped in oil. Never use sandpaper or other rough materials for this purpose.
- When not in use, store the tool in a place away from moisture and precipitation.
- The puller piston should remain in the retracted position. This will protect it from corrosion.
- The storage area of the device should be inaccessible to children and unauthorised persons.
- Store the puller in a dry place with a temperature as constant as possible.
- Check the oil level. Remove the oil filler cap and top up the oil level to the lower edge of the oil filler hole.
- Do not mix different types of hydraulic oils.
- If you notice a reduction in the efficiency of the equipment, it may mean that the hydraulic system is clogged with air or the oil is worn and needs to be replaced.
- In case of storage, protect the unlubricated elements of the puller with a special agent or technical petroleum jelly.

System venting:

- set the actuator to the maximum retracted position

- remove the oil filler cap

- press the release lever

- while still holding the release lever, pump the foot lever firmly several times - this pushes out the air bubbles and deflates the system

- release the lever and fit the oil filler cap

- check the functioning of the system

- All hydraulic oil should be changed every two years.

Oil change:

- set the actuator to the maximum retracted position

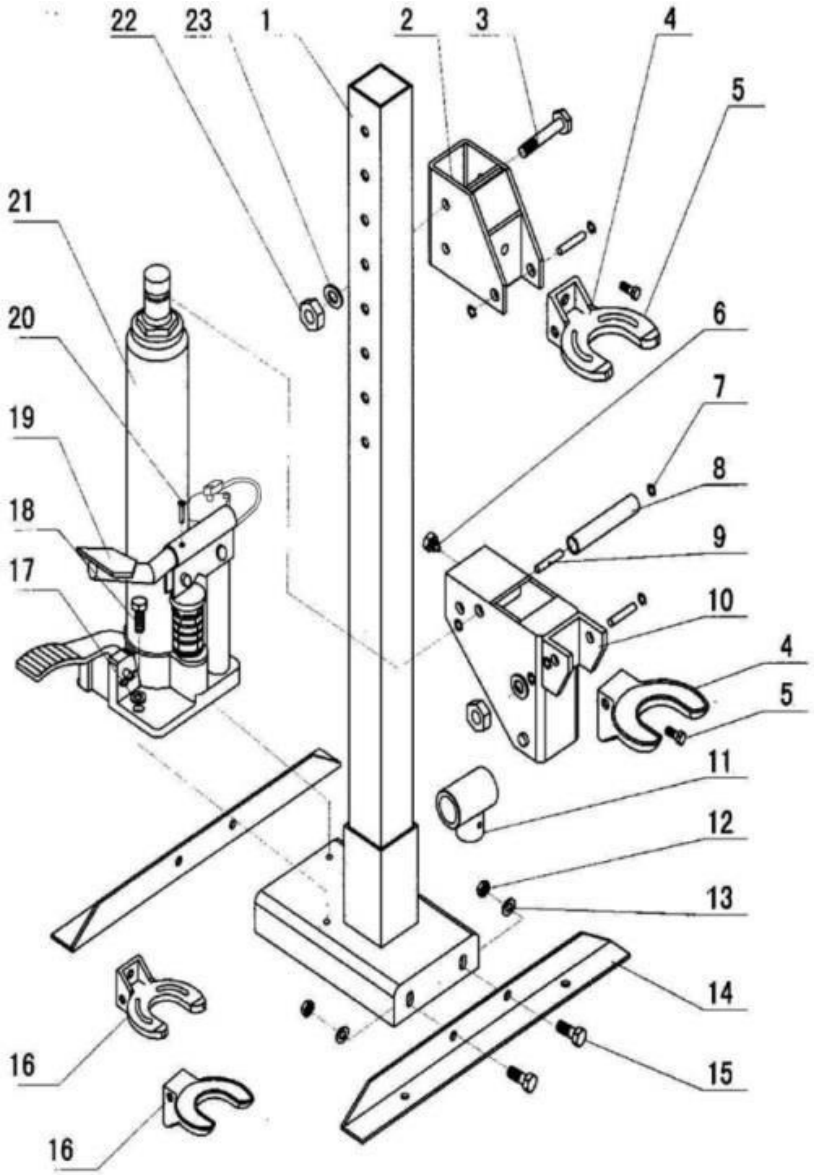
- remove the oil filler cap

- remove all oil from the system through the filler plug.

- top up the level with new hydraulic oil up to the bottom edge of the hole

- vent the system

Use good quality hydraulic oil. Do not use brake fluid or other unsuitable products.



No.	Description	Quantity	No.	Description	Quantity
1	Column	1	13	Washer ø10	4
2	Upper arm	1	14	Angle of inclination of the base	2
3	Screw M12x90	2	15	Screw M10x25	4
4	Large handle	2	16	Small handle	2
5	Screw M12x25	2	17	Washer ø8	2
6	Locking screw	1	18	Screw M8x20	2
7	Ring	1	19	Foot lever	1
8	Case	2	20	Spring	1
9	Pin	5	21	Actuator	1
10	Lower arm	1	22	Nut M12	2
11	Connector	1	23	Washer ø12	2
12	Nut M10	4			

Technical data

Load capacity: 1 t
Spring diameter : 80 mm - 145 mm, 100 mm - 205 mm Working
range : 225 mm - 565 mm
Stroke : 320 mm
Weight : 30 kg

ENVIRONMENTAL PROTECTION



ENVIRONMENTAL PROTECTION
Do not dispose of the appliance in household waste. Dispose of the appliance and hydraulic oil in a designated facility.