Pneumatic tightener 1/2 310Nm HOBBY



Instructions for use

Translation of the original instructions

KEEP THIS MANUAL
This document contains safety and operating instructions and warranty information.
Keep the document together with the proof of purchase in a dry place.



WARNING: Before using the unit, read this manual and follow the instructions for safe operation of the unit.

IMPORTANCE:

After purchasing the appliance, read this manual and follow the instructions for safe operation of the appliance. Keep this document for future reference.

Important safety information

- Keep all instructions

WARNING! Improper operation and maintenance of this product can cause serious injury or property damage. Read this manual and all safety instructions before operating the equipment.

Observe all rules and regulations regarding the use of the equipment in the workshop or workplace with the equipment.

NOTE	Before each use of the unit, check the air hoses, unit and accessories for damage. Do not use a damaged unit due to the risk of serious injury to the user.
WARNING	Do not exceed the rated operating pressure when operating the unit.
WARNING	Do not wear watches, earrings or loose clothing when working with the device.
WARNING	While the unit is connected to the air supply, no accessories may be replaced or maintenance performed.
NOTE	Wear appropriate hearing and eye protection. Wear eye protection conforming to ANSI Z87.1
WARNING	Worn and damaged parts of the appliance must be replaced. Use only original spare parts. The use of other parts can be dangerous.
NOTE	Make sure the pressure supplied to the unit is correct and does not exceed 90 PSI.
WARNING	Keep the air hose away from sources of heat, grease, chemicals and sharp edges. Always check the air hose before starting the machine the hose is not damaged. Make sure the hose is properly

	connected to the appliance. Use accessories that are designed for use with this appliance.
NOTE	Due to the possible presence of asbestos dust from brake linings, appropriate respiratory protection is recommended.
WARNING	Maintain a stable position when working with the device. Wear non-slip footwear.

WARNING	Children and other persons should stay away from the appliance's working area.
NOTE	DO NOT use the device for any purpose other than that for which it is intended. DO NOT use damaged or defective equipment. DO NOT use the instrument unless the user has been trained in the use of the instrument by a qualified person. DO NOT operate the device by holding the air hose.
WARNING	When not in use, the air hose should be disconnected and stored in a safe and dry place, out of the reach of children.
WARNING	Always make sure the machine is switched off before connecting the air hose.
WARNING	The unit must always be clean and lubricated. Daily lubrication is essential to protect against corrosion and possible damage.
WARNING	Do not overload the machine. Use the impact wrench at optimum speed for maximum performance.
WARNING	Do not increase the air pressure above the level specified by the manufacturer. Excessive pressure may cause damage to the equipment. Overloading the unit will cause excessive wear on the moving parts of the unit and damage to the unit.
WARNING	To ensure safety and to protect against possible damage to the appliance or danger to the user, always wait until the appliance has stopped before putting it away.

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Technical data

Speed without load	7 000 RPM	Weight of the tool	4,8 lb
Drive type	1/2" square	Air inlet connection size	1/4" NPT
Maximum torque	230 ft/lb	Recommended hose size	3/8"
Average air consumption	4.0-8.5 CFM	Average noise level	92.6 dB(A)
Maximum operating pressure	90 PSI	Maximum noise level	103.6 dB(A)
Length	8"	Handle vibration	9.2 ft/s2

Service

Descr iption

Impact wrenches are air-powered tools designed for loosening and tightening nuts and bolts. Impact wrenches are equipped with different types of impact mechanisms, for example ROCKING DOG, SINGLE HAMMER, PIN CLUTCH and TWIN HAMMER.

The ROCKING DOG and SINGLE HAMMER mechanisms are used as versatile tools for DIY and hobby users. The wrenches of the TWIN HAMMER and PIN CLUTCH mechanisms are designed for use by professionals in vulcanizing workshops, for mounting belts and removing high-torque screws.

Air supply

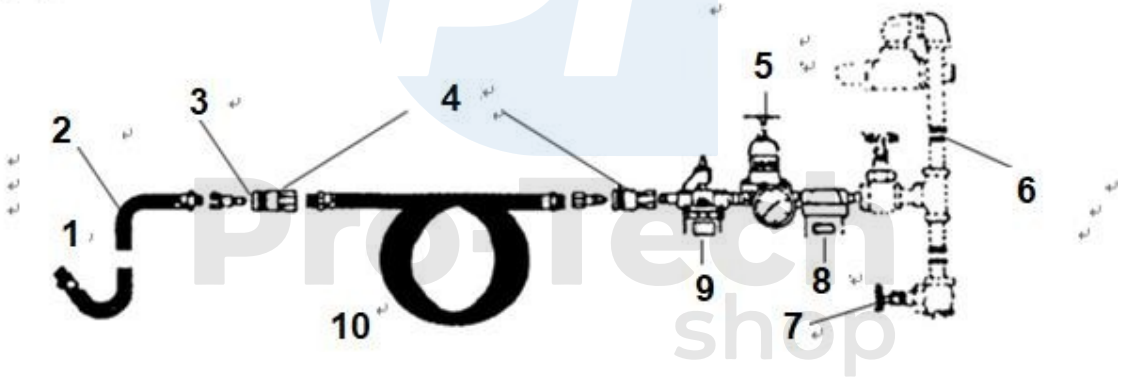
1. Before connecting the unit to the air supply
make sure that the air valve (or trigger) is in the "OFF" position.
2. The impact wrench requires an air pressure of 90 PSI and an air flow of 4.0 CFM.
3. Ensure that the supply air pressure does not exceed 90 PSI during operation. Excessively high air pressure and contaminated air will shorten the life of the product and may cause damage or injury.
4. Empty the air compressor tank daily. Water residue in the air supply hose can cause damage to the wrench.
5. The air inlet filter should be cleaned every week.
6. The pressure in the system should be increased if very long air supply hoses (over 25 metres) are used. The recommended hose diameter is 3/8".
7. Keep the hose away from heat sources, oil, chemicals and sharp edges. Inspect the hose for wear and make sure all connections are properly connected.

Lubrication
It is recommended to use an automatic lubrication system to increase the life of the machine (Fig. 4). The lubrication system should be regularly checked and topped up with oil for pneumatic tools. Proper adjustment of the lubrication system is done by placing a sheet of paper next to the outlet ports and holding the throttle open for approximately 30 seconds. The lubrication system is properly adjusted when a light spot of oil has collected on the paper.

If the impact wrench needs to be stored for an extended period of time (overnight, weekend, etc.), a large amount of lubricant needs to be added. The instrument should be run for approximately 30 seconds to ensure even distribution of oil in the instrument system. Store the appliance in a clean and dry place.
● The most important thing is that the machine is properly lubricated - the lubrication system should have the right amount of lubricant and be set up correctly. Without proper lubrication, the impact wrench will not function properly.
● Use the correct lubricant in the unit's lubrication system. The lubricant should be topped up to the correct level. Use only recommended lubricants that are designed for use in pneumatic equipment. Substitute lubricants may adversely affect the rubber parts of the unit.

IMPORTANT!
If the unit is not equipped with a lubricator, the impact wrench should be lubricated with 2 to 6 drops of oil directly through the fastener in the unit housing. This should be done at least once a day or every 2 hours of operation, depending on the operating environment.

Figure 4



1. Air tool 2 . Hose 3. Oil helper 4. Quick coupler 5. Pressure regulator
6. ½" pipe 7 . Drain 8. Filter 9. Lubrication 10. Air hose

Instructions for use

Lubrication of the impact system
The impact mechanism should be lubricated once a month.

NOTE !

Before lubrication, disconnect the impact wrench from the air supply hose.
1. Disconnect the air supply hose from the impact wrench.
2. Unscrew the oil filler screw located on the right side of the unit above the drain.
3. Pour approximately 28 g of oil through the oil filler screw. Then replace the screw.
4. Connect the air supply and run the unit for 20 - 30 seconds. During this time, move the unit to lubricate the entire lubrication system.

5. Unscrew the screw and open the oil filler screw and pour out the excess lubricant.
6. If the oil is dirty, repeat the procedure until the oil is clean. Tighten the screw.

Operator

ATTENTION!

Read this information before use and observe all safety precautions.

ATTENTION!

Disconnect the air supply hose from the unit before replacing any parts of the unit - otherwise serious injury may result.

Speed control

The impact wrench must not be used to adjust the torque. Use a torque wrench to set the torque. When loosening the bolts, set the torque wrench to the maximum setting. Always use a torque wrench when tightening screws to achieve the correct screw torque.

WARNING!

When retightening, be careful not to overtighten the screw. Set the adjuster to the minimum setting and then tighten them with a torque wrench.

Setting up the unit

To unscrew the screw, push the forward/rearward button (on the top of the handle) to the rear position. To tighten the screw, slide the button forward. If the screws are screwed to the left, proceed in reverse order. Do not tighten the screw.
1 Only use handles that are designed for use with impact wrenches. Place the handle on the appropriate screw.
2. Connect the wrench to the air supply hose.
3. Pull the trigger.
4. To change the direction of rotation, press the button on the top of the handle. "R" - backwards, "F" - forwards.
5. Adjust the air flow using the flow control valve.
6. Make sure the air supply is clean and does not exceed 90 PSI. Excessively high air pressure and dirty air will shorten the life of the product and may cause damage or injury.
7. Children should stay away from the equipment and the work area of the facility. DO NOT use increased force to unscrew the nut.
The appliance MUST NOT be left running for long periods of time as this will shorten its life.

OPERATION OF THE EQUIPMENT

NOTE: It is not recommended to install a quick coupler between the unit and the flexible hose.

WARNING !

The use of a flexible hose prevents accidental start-up when connecting compressed air to the system.
In addition, vibrations during operation cause premature wear of the quick couplings.

Using too small air supply couplings or hoses can cause a pressure drop and reduce the performance of the unit. It is recommended to use 3/8" couplings with 1/4" NPT threads. Most compressors are equipped with a short 1/4" hose. It is recommended to use a 3/8" hose for proper operation and convenience. Hoses longer than 1.5 m should be 1/2" in diameter.

WARNING! Never move the appliance with a hose. Keep hoses away from heat sources, oil and sharp edges. Replace a damaged, weak or worn hose immediately.

Maintenance

ATTENT
ION!
Disconnect the impact wrench from the air inlet hose before changing attachments, servicing or maintenance. Replace or repair damaged parts. Use only genuine parts. Use of other parts may be dangerous!

1. Re-lubricate the impact wrench daily by adding a few drops of oil to the air inlet of the machine.
2. Clean the unit after use. DO NOT use worn or damaged accessories.
3. Loss of power or malfunction of the unit may result:
(a) excessive condensation in the air system, moisture or blockage in the air system, use of the wrong size or type of hose coupling. Check the air supply to resolve the problem.
b) Debris (rubber or otherwise) can also affect the performance of the unit. If your appliance model is equipped with an air filter, remove and clean it.

When the unit is not in use, disconnect the air supply and disconnect the hose. Then clean the appliance and store it in a safe and dry place out of the reach of children.

Storage

The appliance must be lubricated before being put away for a long time. Do not lubricate the appliance motor too often. NOTE !

Before lubrication, disconnect the air supply hose from the unit.

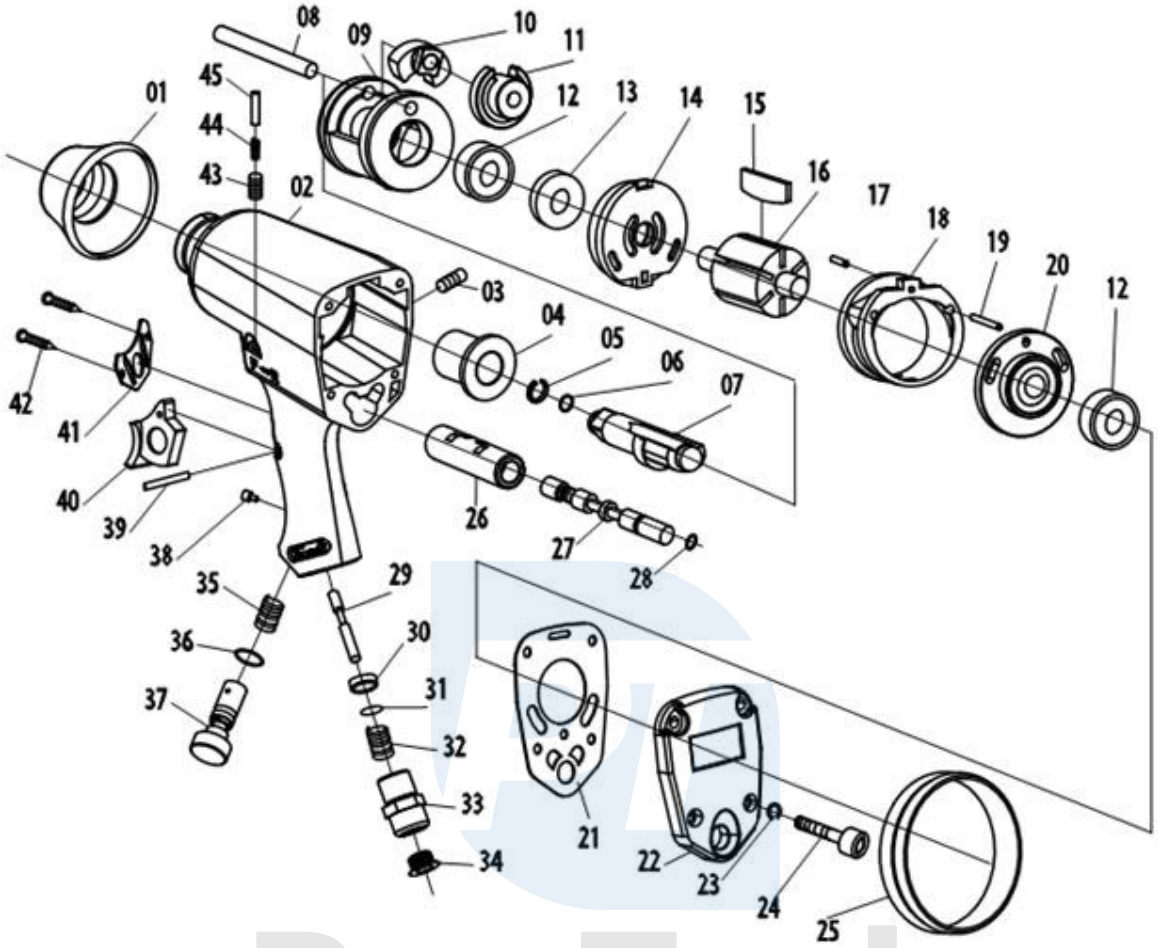
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Environmental protection



Electrical products must not be disposed of with household waste. They must be disposed of in designated recycling facilities. Contact your local authority for information on storing electrical appliances.

Unit design and spare parts list



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NR	DESCRIPTION	NR	DESCRIPTION	NR	DESCRIPTION
01	Protective rubber	16	Rotor	31	Component facilities
02	Body	17	Component facilities	32	Cover
03	Screw	18	Roller	33	Inlet plug air
04	Case	19	Screw	34	Cover
05	Ring	20	Motherboard	35	Cover
06	o-ring	21	Seal	36	o-ring
07	Component facilities	22	Back cover	37	Air regulator
08	Component facilities	23	Pad	38	Screw

09	Component facilities	24	Screw	39	Component facilities
10	Component facilities	25	Protective rubber	40	Drainage
11	Component facilities	26	Case	41	Cover
12	Bearing	27	Valve	42	Screw
13	Seal	28	o-ring	43	Screw
14	Motherboard	29	Component facilities	44	Cover
15	Rotor blade	30	Pad	45	Component facilities

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