Blue-Point®

Operator Instructions

Includes – Foreseen Use, Work Stations, Putting Into Service, Operating, Dismantling, Assembly and Safety Rules.

Important

Read these instructions carefully before installing, operating, servicing or repairing this tool. Keep these instructions in a safe accessible place.

Manufacturer/Supplier
Snap-on Tools Company
2801 80th Street
Kenosha
WI 53141-1410
U.S.A.

Product Type
1/2" Air Impact Wrench

Max. RPM
7,000
Cycles Per Min.

CE

Model No/Nos
AT570

Serial No.

Product Net Weight	Recommended Use Of Balancer Or Support	Recommended Hose Bore Size – Minimum	Recommended Max. Hose Length
4.17 lbs 1.89 Kg	**N0**	**3/8** Ins **10** M/M	**30** Ft **10** M

Air Pressure

Recommended Working	**6.2**	bar	**90**	PSI
Maximum	**6.2**	bar	**90**	PSI

Noise Level:
Sound Pressure Level **95 dB(A)**
Uncertainty, K **3 dB(A)**
Sound Power Level **106 dB(A)**
Uncertainty, K **3 dB(A)**
Test Method: **Tested in accordance with Pneurop test code PN8NTC1 and ISO Standard 15744:2008**

SAFETY MESSAGES

Personal Safety Equipment

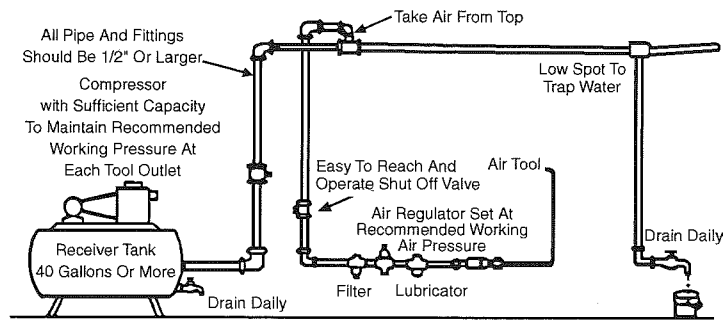
Use – Safety Glasses	**YES**
Use – Safety Gloves	
Use – Safety Boots	
Use – Breathing Masks	
Use – Ear Protectors	**YES**

WARNING
Always Read Instructions Before Using Power Tools
Always Wear Safety Goggles
Wear Hearing Protection
Avoid Prolonged Exposure To Vibration

Vibration Level **6.08** Meters / Sec^2
Uncertainty, K **1.09** Meters / Sec^2
Test Method: **Tested in accordance with ISO standard 28927-2:2009**

Safety rules when using AT570 Impact Wrench

- Use only impact sockets and extensions, universal joints, etc. rated as being suitable for use with impact wrenches.
- Prolonged exposure to vibration may cause injury.
- Read all instructions before using this tool. All operators must be fully trained in its use and aware of these safety rules.
- Do not exceed the maximum working air pressure.
- Use personal protection equipment as recommended.
- Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects and other reproductive harm.
- Use only compressed air at the recommended conditions.
- If the tool appears to malfunction, remove from use immediately and arrange for service and repair. If it is not practical to remove tool from service, then shut off the air supply to the tool and write or have written a warning note and attach it to the tool.
- If tool is to be used with a balancer or other suspension device, ensure that the tool is firmly attached to the suspension/support device.
- When operating the tool, always keep the body and particularly the hands away from the working attachment fixed to the tool.
- The tool is not electrically insulated. Never use the tool if there is any chance of coming into contact with live electricity.
- Always when using the tool, adopt a firm footing and/or position and grip the tool sufficiently only to overcome any reaction forces that may result from the tool doing work. Do not overgrip.
- Use only correct spare parts for maintenance and repair. Do not improvise or make temporary repairs. Major servicing and repairs should only be carried out by persons trained to do so.
- Do not lock, tape, wire, etc. the 'On/Off' valve in 'On' position. The throttle/lever, etc. must always be free to



Recommended Air Supply System — Figure 1

return to the 'Off' position when released.
- Always shut off the air supply to the tool and press the 'On/Off' valve to exhaust the air from the feed hose before fitting, removing or adjusting the working attachment fitted to the tool.
- Before using the tool, make sure that a shut off device has been fitted to the air supply line and the position is known and easily accessible so that the air supply to the tool can be shut off in an emergency.
- Check hose and fittings regularly for wear.
- Take care against entanglement of the moving parts of the tool with clothing, hair, ties, cleaning rags, rings, jewelry, watches, bracelets, etc. This could cause the body or parts of the body to be drawn towards and in contact with the moving parts of the tool and could be very dangerous.
- It is expected that users will adopt safe working practices and observe all local, regional and country legal requirements when installing, using or maintaining the tool.
- Take care that the exhaust air does not point towards any other person or material or substance that could be contaminated by oil droplets. When first lubricating a tool or if the tool exhaust has a high oil content, do not allow the exhaust air to come near very hot surfaces or flames.
- Never lay the tool down until the working attachment has stopped moving.
- When the tool is not in use, shut off the air supply and press trigger/lever to drain the supply line. If the tool is not to be used for a period of time, first lubricate, disconnect from air supply and store in a dry average room temperature environment.
- If the tool is passed from one user to a new or inexperienced user, make sure these instructions are passed with the tool.
- Do not remove any manufacturer fitted safety devices where fitted, i.e., wheel guards, safety trigger, speed governors, etc.
- Wherever possible, secure workpiece with clamps, a vise, etc. to make it rigid so it does not move during the work operation. Keep good balance at all times. Do not stretch or overreach.
- Try to match the tool to the work operation. Do not use a tool that is too light or heavy for the work operation. If in doubt, seek advice.
- In general terms, this tool is not suitable for underwater use or use in explosive environments — seek advice from manufacturer.
- Try to make sure that the work area is clear to enable the work task to be performed safely. If practical and possible, try to clear unnecessary obstructions before starting work.
- Always use air hose and couplings with minimum working pressure ratings at least 1 1/2 times the maximum working pressure rating of the tool.

Foreseen Use Of The Tool – AT570

The impact wrench is designed for the tightening and loosening of threaded fasteners within the range as specified by the manufacturer. It should only be used in conjunction with suitable impact type 3/8" square female drive nut running sockets. Only use sockets which are of the impact type.

It is allowed to use suitable extension bars, universal joints and socket adaptors between the square output drive of the impact wrench and the square female drive of the socket.

Do not use the tool for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier. To do so may be dangerous.

Never use an impact wrench as a hammer to dislodge or straighten cross threaded fasteners. Never attempt to modify the tool for other uses and never modify the tool for even its recommended use as a nutrunner.

Work Stations

The tool should only be used as a handheld, hand operated tool. It is always recommended that the tool is used when standing on the solid floor. It can be used in other positions, but before any such use, the operator must be in a secure position having a firm grip and footing and be aware that when loosening fasteners the tool can move quickly away from the fastener being undone. An allowance must always be made for this rearward movement so as to avoid the possibility of hand/arm/body entrapment.

Putting Into Service

Air Supply

Use a clean lubricated air supply that will give a measured air pressure at the tool of 90 p.s.i./6.2 bar when the tool is running with the trigger fully depressed and the air regulator in its maximum opening flow position. Use recommended hose size and length. It is recommended that the tool is connected to the air supply as shown in figure 1. Do not connect a quick connect coupling directly to the tool, but use a whip or leader hose of approximately 12 inches length. Do not connect the tool to the air line system without incorporating an easy to reach and operate air shut off valve. The air supply should be lubricated. It is strongly recommended that an air filter, regulator, lubricator (FRL) is used, as shown in Figure 1, as this will supply clean, lubricated air at the correct pressure to the tool. Details of such equipment can be obtained from your supplier. If such equipment is not used, then the tool should be lubricated by shutting off the air supply to the tool, depressurizing the line by pressing the throttle lever on the tool. Disconnect the air line and pour into the air inlet bushing (48) a teaspoonful (5ml) of a suitable pneumatic motor lubricating oil preferably incorporating a rust inhibitor. Reconnect tool to air supply and run tool slowly for a few seconds to allow air to circulate the oil. If tool is used frequently, lubricate on daily basis and if tool starts to slow or lose power. When lubricating, also ensure that the air inlet bushing (48) is clean.

It is recommended that joint tightness of the threaded fastener assembly be checked with suitable measuring equipment.

It is recommended that the air pressure at the tool while the tool is running is 90 p.s.i./6.2 bar.

Operating

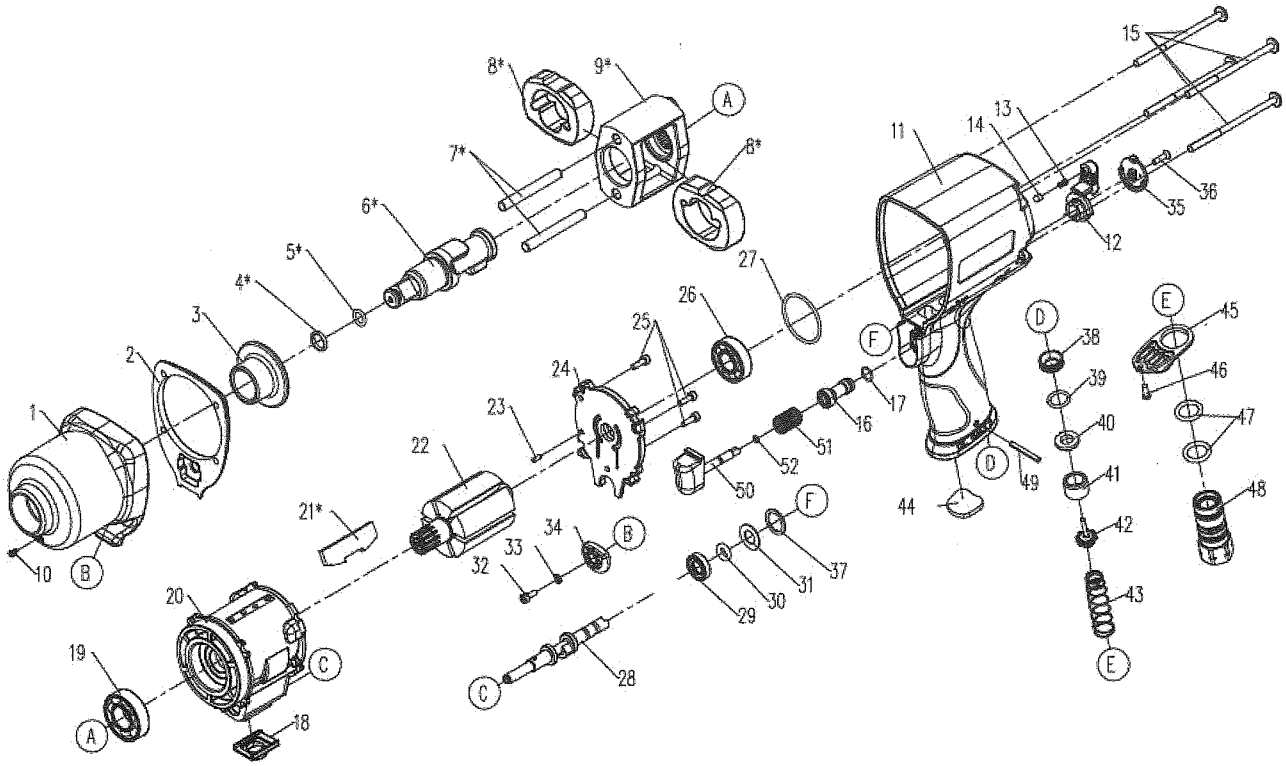
The output of the impact wrench in prime working condition is governed by mainly three factors:

a) the input air pressure;
b) the time the impact wrench is operated on the joint. Normal time for joints of average tension requirement 3 to 5 seconds;
c) the setting of the air regulator for a given joint at a given pressure operated for a given time.

The air regulator on housing (11)can be used to regulate the output of the impact wrench if no other means of control is available. It is strongly recommended that an external pressure regulator, ideally as part of a filter/regulator/lubricator (FRL), is used to control air inlet pressure so that the pressure can be set to help control the tension required to be applied to the threaded fastener joint. There is no consistent, reliable torque adjustment on an impact wrench of this type. However, the air regulator can be used to adjust torque to the approximate tightness of a known threaded joint. To set the tool to the desired torque, select a nut or screw of known tightness of the same size, thread pitch and thread condition as those on the job. Turn air regulator to low position, apply wrench to nut and gradually increase power (turn regulator to admit more air) until nut moves slightly in the direction it was originally set. The tool is now set to duplicate that tightness, note regulator setting for future use. When tightening nuts not requiring critical torque values, run nut up flush and then tighten an additional one-quarter to one-half turn (slight additional turning is necessary if gaskets are being clamped). For additional power needed on disassembly work, turn regulator to its fully open position. This impact wrench is rated a 3/8" bolt size. Rating must be downgraded for spring U bolts, tie bolts, long cap screws, double depth nuts, badly rusted conditions and spring fasteners as they absorb much of the impact power. When possible, clamp or wedge the bolt to prevent springback.

Soak rusted nuts in penetrating oil and break rust seal before removing with impact wrench. If nut does not start to move in three to five seconds use a larger size impact wrench. Do not use impact

AT570 - 1/2" Air Impact Wrench



Ref. No.	Parts No.	Description	Ref. No.	Parts No.	Description
1	AT570-1	HAMMER CASE with bushing	28	AT570-29	REVERSE VALVE
2	AT570-2	PACKING	29	AT570-30	LATCH SPRING BUSHING
3	AT570-3	HAMMER CASE BUSHING	30	AT570-31	O - RING
4	AT570-4	SOCKET RETAINER	31	AT570-32	FLAT WASHER
5	AT570-5	O - RING	32	AT570-33	HEX.SOC.HD.BOLT
4-6	AT570-6-100	ANVIL assembly w/retainer ring	33	AT570-34	FLAT WASHER
7	AT570-7	(2pk)HAMMER FRAME PIN	34	AT570-35	REVERSE VALVE A
8	AT570-8	(2pk) HAMMER	35	AT570-36	REVERSE VALVE B
9	AT570-9	HAMMER FRAME	36	AT570-37	FLAT HD.SCREW
10	AT570-10	HAMMER CASE GREASE FITTING	37	AT570-39	SEAL
11	AT570-11	HOUSING	38	AT570-40	INSERT BUSHING
12	AT570-12	REGULATOR	39	AT570-41	O - RING
13	AT570-13	SPRING	40	AT570-42	SEAL
14	AT570-14A	PIN	41	AT570-43	BUSHING
15	AT570-15	(4pk) HALF ROUND HD.HEX.BOLT	42	AT570-44	TIP VALVE
16	AT570-16	TRIGGER BUSHING B	43	AT570-45	SPRING
17	AT570-17	O - RING	44	AT570-46	MUFFLER
18	AT570-19	SEAL	45	AT570-47	EXHAUST DEFLECTOR
19	AT570-20	BEARING	46	AT570-48	TAP BOLT
20	AT570-21	CYLINDER UNIT	47	AT570-49	(2pk) O - RING
21	AT570-22MP6	(6pk) BLADES	48	AT570-50	AIR INLET
22	AT570-23	ROTOR	49	AT570-51	SPRING PIN
23	AT570-24	PIN	50	AT570-52	TRIGGER UNIT
24	AT570-25	REAR BEARING PLATE	51	AT570-53	SPRING
25	AT570-26	(3pk) HEX.SOC.HD.BOLT	52	AT570-54	O - RING
26	AT570-27	BEARING	NOT SHOWN	AT570-55	LABEL SET
27	AT570-28	O - RING			

wrench beyond rated capacity as this will drastically reduce tool life. NOTE: Actual torque on a fastener is directly related to joint hardness, tool speed, condition of socket and the time the tool is allowed to impact.

Use the simplest possible tool-to-socket hook up. Every connection absorbs energy and reduces power.

Forward/reverse operator is controlled by reverse switch (34, 35) located on top of trigger and back of housing. Press reverse switch (35). The tool is now in reverse mode. Press reverse switch (34) and the tool is now in forward mode. Ensure that the reverse switch is in the proper position befire starting tool.

The air regulator controls the speed of the tool and is located on the back of housing (11). For Forward Operation, it is a 3-position regulator with "3" being the highest setting and "1" the lowest setting. For Reverse Operation, no regulator being applied and fixed to the highest torque setting.

The tool incorporates an air inlet bushing (48). Check periodically to see if this is becoming blocked as blockage will reduce the speed and power of the tool. To clean the air inlet bushing it is necessary to Remove the air inlet bushing (48) from motor housing (11).

or best results:

1) Always use the correct size impact type socket.
2) Use extra deep sockets in place of extension bars where possible.
3) Do not use oversized, worn or cracked sockets.
4) Hold the wrench so the socket fits squarely on the fastener. Hold the wrench firmly, but not too tightly, pressing forward slightly.

Dismantling & Assembly Instructions

Disconnect tool from air supply.

Remove Hex. Bolt (32) then Screw (36) by using a screw driver. Loosen screws (15) by using a Screw driver. Remove hammer case (1), o-ring (30), spring bushing (29) and pull out trigger (50). Loosen Hex. Bolts (25) and remove rear bearing plate (24), rotor (22) and blades (21).

Remove spring pin by using a hammer with a small pin. Use a wrench to loosen air inlet (48). Remove exhaust deflector (45), spring (43). Remove hammer frame (9) from hammer case (1), remove gasket (2), pull out hammer pins (7), turn around anvil (6) and remove hammers (8).

Reassembly

Clean and examine all parts for wear and replace any parts with parts obtained from manufacturer or authorized distributor. All parts must be dry. Check that all bearings run smoothly and reassemble all tool parts in reverse order. Pump grease by using a mini grease gun into the grease fitting (10). Connect tool to a suitable air supply (90 psi preferred) and run tool slowly for 5 seconds to allow the grease to circulate.

Operation Specification	
Air Consumption	5.3 cfm (37.8 scfm)
Max. Torque	570 ft.lbs. (773 Nm)
Working Torque	50-450 ft-lbs. (68-611 Nm)
Air Inlet Thread	1/4"-18NPT
Overall Length	7.24" (184 mm)
at 90 PSIG/6.2 bar	

DECLARATION OF CONFORMITY

Manufacturer:
Snap-on Tools Company
Snap-on, 2801 80th Street
Kenosha, WI 53141-1410, U.S.A.

Product: **1/2" Air Impact Wrench**
Model No.: **AT570**
Production date: 1108xxxx-xxxxxxxx

The undersigned hereby declares, on behalf of the above-referenced manufacturer and product(s), to which this declaration relates, is in conformity with the provisions of:
Machinery Directive: 2006/42/EC
Safety: EN 792-6+A1:2008
Vibration: ISO 28927-2:2009
Noise: ISO 15744:2008
Safety: EN ISO 12100:2010

The Technical Construction File is maintained at:
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