



## EC DECLARATION OF CONFORMITY

### WE:

POLAR TOOLS A/S  
Soldalen 9, DK-7100 Vejle, Denmark

Declare in sole responsibility that the equipment

**EQUIPMENT:** AIR IMPACT WRENCH

**MODEL/SERIAL NO.:** 6100-2012

to which this declaration applies, complies with these normative documents:

**MACHINERY DIRECTIVE:** 2006/42/EC

and conforms to the following EN standards,

EN ISO 12100:2012  
EN ISO 11148-6:2012

Authorized representative established within the EU (if applicable):

Company Name: Polar Tools A/S

Company Address: Soldalen 9, DK-7100 Vejle, Denmark

Person responsible for compiling the technical file established within the EU:

Name, Surname: Mikael Linde

Address: Jens Grøns Vej 1, DK-7100 Vejle, Denmark

Note: This declaration becomes invalid, if technical or operational modifications are introduced without the manufacturers consent.

Name and Signature/Position Title

Date and place

Mikael Linde, Owner

Denmark, January 10, 2013



Read the operator's instructions before operating the tool.



Wear eye protection device.



Wear ear protection device.

## OPERATING INSTRUCTIONS



### IMPORTANT

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

### MANUFACTURER/SUPPLIER

Polar Tools A/S  
Soldalen 9 · DK-7100 Vejle · Denmark  
Tel: +45 7584 1122  
E-mail: info@polartools.com · www.polartools.com

### PRODUCT TYPE

1/2" PROFESSIONAL IMPACT WRENCH

### MODEL

6100-2012



Actual product may be slightly different from the product described here in.

## SAFETY RULES

Read, understand and keep these instructions!



### WARNING

Failure to follow all instructions listed below may result in serious injury.

### WORK AREA HAZARD & PERSONAL SAFETY

1. Keep your work area clean and well lit.
2. Do not operate power tools in explosive atmospheres, such as in the presence of combustible liquid, gases or dust. Power tools create sparks which may ignite the dust or fumes.
3. Disconnect tool before performing service or when not in use.
4. High sound levels can cause permanent hearing loss. Use hearing protection during operation.
5. Maintain a balanced body position and secure footing.
6. Slips/Trips/Falls are a major cause of serious injury or death. Be aware of excess hose left on the working floor.
7. Repetitive work motions, awkward positions and exposure to vibration can be harmful to hands and arms. If numbness, tingling, pain or whitening of the skin occurs, stop using the tool and consult a physician.

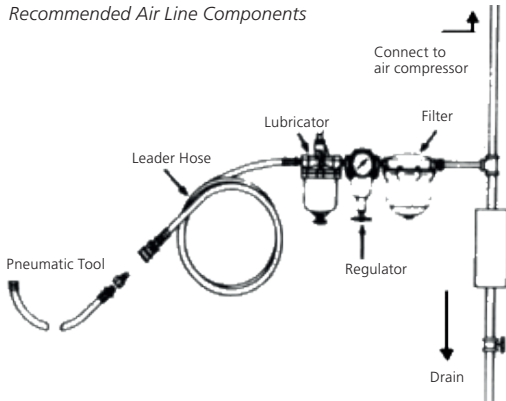
8. Always wear impact-resistant eye and face protection when operating, repairing or performing maintenance of the tool or while changing tool accessories.

### TOOL USE AND CARE

1. Use support handle or other method to secure and support the work piece to a stable platform.
2. Do not force the tool. Use the correct tool for your application. Using the correct tool which is specifically designed for a select job will provide better tool performance and make the job easier.
3. Disconnect the air supply before making any adjustments, changing accessories, or storing the tool. Always disconnect the air supply before performing any inspection, maintenance or tool cleaning.
4. Use only accessories recommended by the manufacturer for your model.
5. When using a tool that is designed to have a guard, the guard should be in place to provide protection from flying debris, grinding residue or sparks.
6. Do not leave the tool unattended when it is connected to an air supply.
7. Use compressed air only.

## AIR SUPPLY SETUP AND CONNECTION

### Recommended Air Line Components



1. For optimal results you should incorporate a regulator, oiler and an inline filter.
2. If you are not using an automatic lubricating system, before operating the tool, add a few drops of Pneumatic Tool Oil to the air-line connection. Add more after each hour of constant using.
3. Do not exceed maximum air pressure of 90 PSI/ 6,2 bar or as stated on tool nameplate.

## OPERATING INSTRUCTIONS

ONLY use accessories recommended by Polar Tools. Check the position of the reversing mechanism before operating the tool so as to be aware of the direction of rotation when operating. Use only impact sockets and accessories. Do not use the tool sockets or accessories. Check the drive end of the tool to make sure that the socket retainer functions correctly and that sockets and drive ends are not excessively worn which may allow the socket to come off when rotating. Connections requiring specific torque must be checked with a torque meter after fitting with an impact wrench.

## LUBRICATION & MAINTENANCE

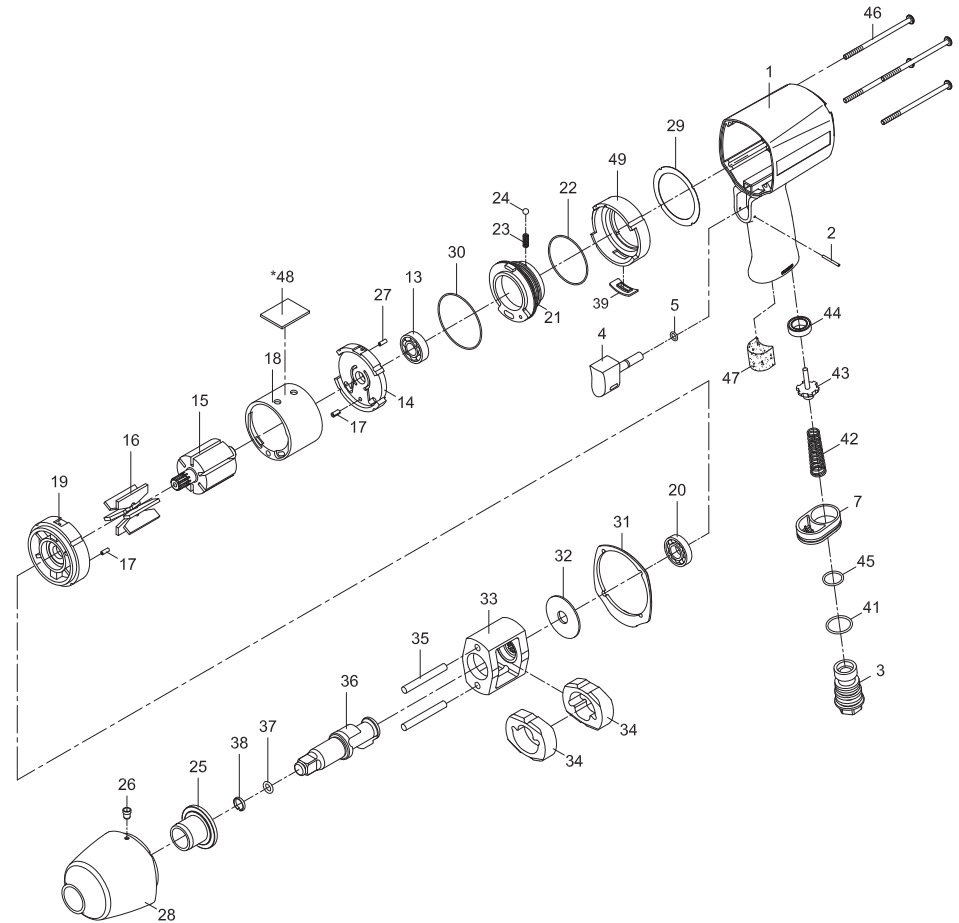
Lubricate the tool daily with a high grade of air tool oil. If no air line oiler is used, run a teaspoon of oil through the tool. The oil can be squirted into the tool air inlet, or into the hose at the nearest connection to the air supply, prior to operating the tool. A rust inhibitive oil is acceptable for air tools.

## PARTS NO.

PARTS NO.	DESCRIPTION
P6100-2012-01	Motor Housing
P6100-2012-02	Spring Pin (2 x 20)
P6100-2012-03	Air Inlet
P6100-2012-04	Trigger
P6100-2012-05	O-Ring (4 x 1) ●
P6100-2012-07	Exhaust Diffuser
P6100-2012-13	Ball Bearing (6001)
P6100-2012-14	Rear End Plate
P6100-2012-15	Rotor
P6100-2012-16	Rotor Blade (6) ●
P6100-2012-17	Spring Pin (3,5 x 4)
P6100-2012-18	Cylinder
P6100-2012-19	Front End Plate
P6100-2012-20	Ball Bearing (EE4)
P6100-2012-21	Air Regulator
P6100-2012-22	O-Ring (38,5 x 2) ●
P6100-2012-23	Spring
P6100-2012-24	Steel Ball (9/64") ●
P6100-2012-25	Anvil Bushing
P6100-2012-26	Oil Cap (1/8")
P6100-2012-27	Spring Pin (2 x 5)
P6100-2012-28	Hammer Case
P6100-2012-29	Gasket ○
P6100-2012-30	O-Ring (48 x 1) ○
P6100-2012-31	Gasket ○
P6100-2012-32	Washer
P6100-2012-33	Hammer Cage ○
P6100-2012-34	Hammer (2)
P6100-2012-35	Hammer Pin (2)
P6100-2012-36	Anvil (RH-Type 1/2")
P6100-2012-37	O-Ring (6,5 x 2) ●
P6100-2012-38	Retaining Ring ●
P6100-2012-39	Gasket
P6100-2012-41	O-Ring (20,35 x 1,78) ●
P6100-2012-42	Valve Spring ●
P6100-2012-43	Valve Stem
P6100-2012-44	Rubber Spacer
P6100-2012-45	O-Ring (15,7 x 1,7) ○
P6100-2012-46	Screw (4) - (M4 x 90)
P6100-2012-47	Muffler Material
P6100-2012-48*	Muffler Material
P6100-2012-49	Inlet Guide
P6100-2012-50	● Service Kit
P6100-2012-51	○ Rebuilt Kit

\* Optional Parts

## 1/2" PROFESSIONAL IMPACT WRENCH



## TECHNICAL SPECIFICATION

PRODUCT TYPE		MODEL: 6100-2012
1/2" professional impact wrench		
SQUARE DRIVE: 1/2"	WORKING TORQUE RANGE: 68-746 Nm (50-550 ft-lbs)	AIR PRESSURE: 6,2 Bar (90 P.S.I.)
FREE SPEED : 9.000 RPM	AIR INLET: 1/4" NPT	AVERAGE AIR CONSUMPTION: 158 L/Min (5,6 CFM)
MAX. TORQUE: 1.054 Nm (780 ft-lbs)	HOSE SIZE: 3/8" (10 mm)	WEIGHT: 2,1 Kg