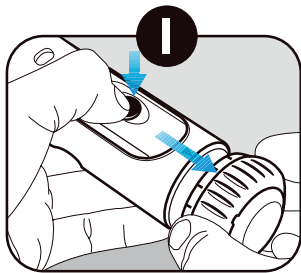


# INSTRUCTION MANUAL

**PRODUCT TYPE**  
TORQUE WRENCH

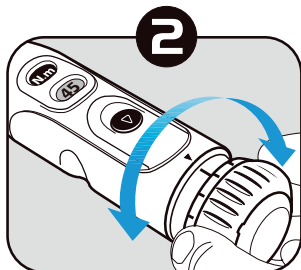
**MODEL**  
7100-1000 SERIES

## INSTRUCTIONS



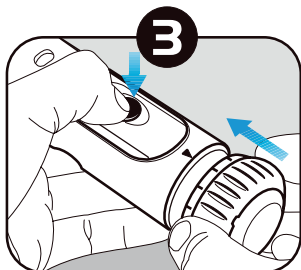
Press the safety button and simultaneously pull out the adjustment ring with scale at the same time.

*Note: Incorrect use may cause damage to the locking function.*

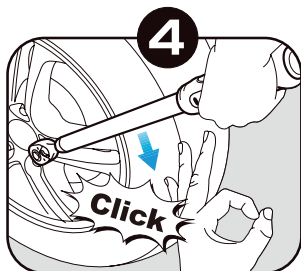


Turn the adjustment ring to adjust the desired value on the scale with convex lens.

*Note: Do not turn the adjustment knob neither below the lowest value ("stop" indicator) nor above the highest value.*

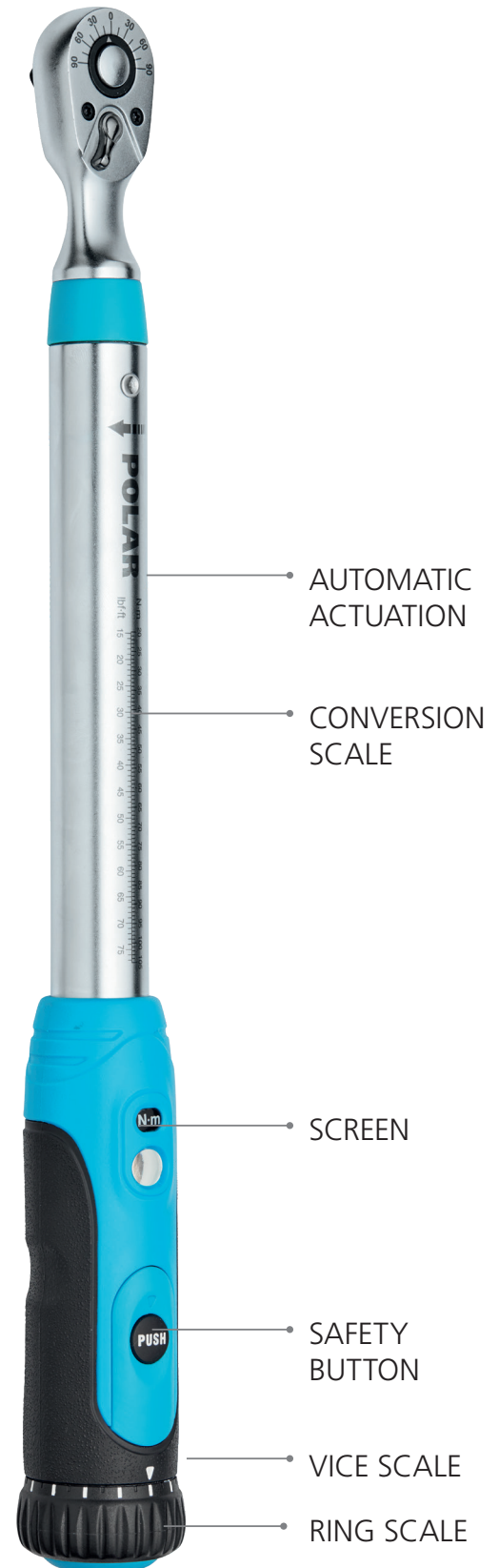


Press the safety button and simultaneously press the adjustment ring.



Hold the handle firmly in the middle and use the torque wrench clockwise. Stop immediately after "click".

*Note: It is quite easy to release a low torque and there is almost no audible "click" sound. Operator should test how it feels under low torque setting to avoid accidentally over-tightening and damage device.*



# SAFETY INSTRUCTIONS



## WARNING

### RISK OF FLYING PARTICLES

- Do not use the torque wrench to break loose fasteners.
- Do not use torque wrench as a lever bar.
- Use of damaged hand tools, sockets, extensions and accessories may result in injury.
- Do not use the torque wrench as a hammer.
- Torque wrenches not in calibration may cause damage to parts or tools.
- Do not use extensions on handle.
- Over tightening of fasteners may result in breakage.



### ALWAYS USE EYE PROTECTION WHILE USING HAND TOOLS



## WARNING

### INJURY MAY RESULT FROM ELECTRICAL SHOCK

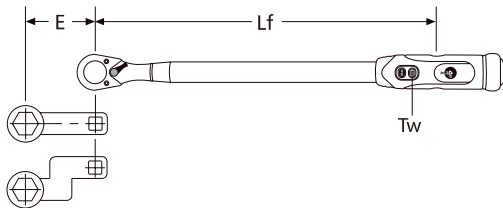
- Handle is not insulated, do not use on live electrical or high voltage circuits.



MODEL	TORQUE RANGE	LENGTH
7114-1025	1/4"	5-25 323 mm
7138-1050	3/8"	10-50 400 mm
7138-1100	3/8"	20-100 400 mm
7112-1200	1/2"	40-200 517 mm
7112-1340	1/2"	60-340 620 mm
7134-1550	3/4"	110-550 918 mm
7134-1750	3/4"	150-750 1210 mm

## FORMULA FOR CALCULATING THE EFFECT FOR TORQUE

In case it is impractical to use regular sockets, (for example tightening threaded connectors) and a special attachment must be utilized, then such attachments change the effect of the torque wrench, and it is necessary to calculate the correct settings with the following formula.



E - Effective length of extension

Lf - Lever length of the wrench: middle of handle to center of square drive

T(W) - Torque setting on the wrench

T(A) - Torque applied by the extension to the fastener

$$T(A) = T(W) \times \frac{L_f + E}{L_f}$$

## CARE AND MAINTENANCE

The torque wrench is a precision instrument, and should be stored with care. Do not throw it around, use hammer with it, or use it as a lever bar.

The torque wrench is lubricated for life and should not be oiled. The only exception is the ratchet head which may be lubricated as needed for smooth operation.

The torque wrench is a precision measuring instrument. Calibration must be done regularly to ensure accuracy and its' the owner's responsibility. Suggested calibration period is at least every 12 months or even shorter dependig on situation.

Always store the torque wrench in the box after use to stay away from dirt and humidity.

Never disassemble the torque wrench by yourself. For any need to disassemble the torque wrench or repair it, please look for assistance from qualified service station. Any incorrect action to disassemble the torque wrench may result in damage of this instrument.

## STANDARD

We calibrate each torque wrench at the factory using torque standards according to DIN ISO 6789 & ASME B107.14M-1994 and certifies it meets the accuraccy requirements of specifications DIN ISO 6789 and ASME B107.14M-1994.

CONVERT FROM	TO	MULTIPLY BY
oz-in	in-lb	0.0625
in-lb	in-oz	16
in-lb	kg-cm	1.1519
in-lb	ft-lb	0.083333
in-lb	kg-m	0.011519
in-lb	Nm	0.1130
in-lb	dNm	1.130

CONVERT FROM	TO	MULTIPLY BY
ft-lb	Nm	1.356
ft-lb	kg-m	0.1382
ft-lb	in-lb	12
Nm	dNm	10
Nm	kg-cm	10.20
Nm	kg-m	0.10197
Nm	in-lb	8.8507

CONVERT FROM	TO	MULTIPLY BY
Nm	ft-lb	0.73756
dNm	in-lb	0.885
dNm	Nm	0.100
kg-cm	in-lb	0.8681
kg-cm	Nm	0.09807
kg-m	ft-lb	7.236
kg-m	Nm	9.807