

OPERATING INSTRUCTIONS

CERTIFICATE INSIDE



EGA *Master*
ART IN INNOVATION

COD. 62982

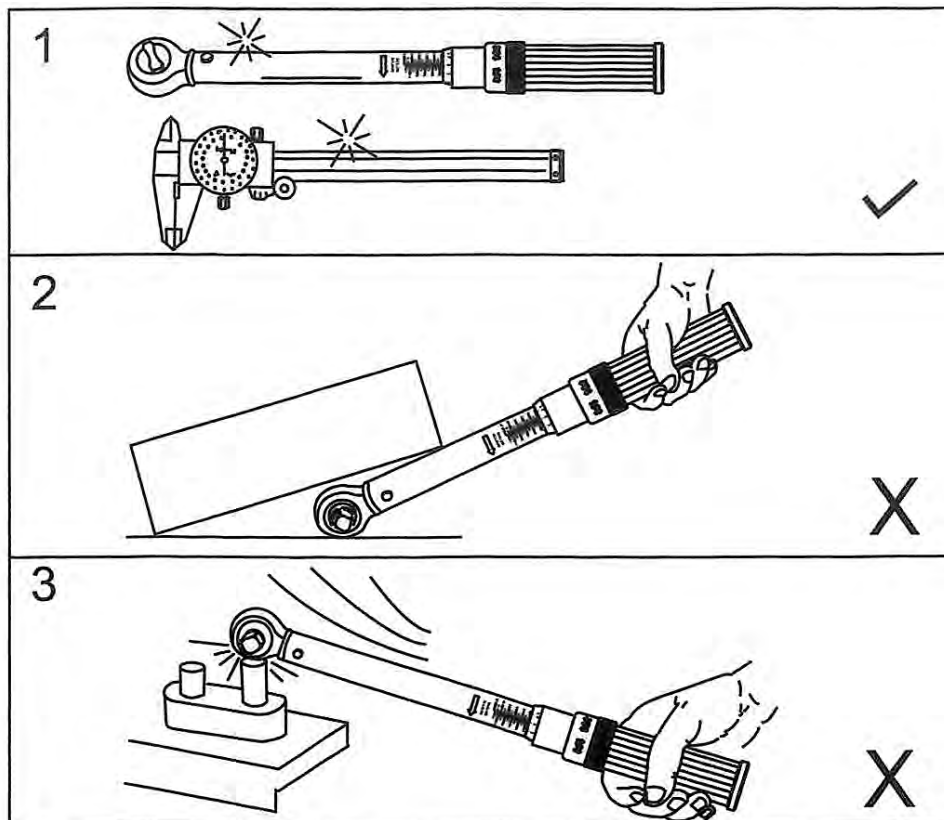
ANALOGIC REVERSIBLE MINI TORQUE WRENCH



ENGLISH
GUARANTEE..... 7



READ BEFORE YOU USE



1. This torque wrench is a precision instrument intended to be used only to tighten screws, bolts and nuts to a desired torque.

2. Do not use it as a “nut breaker”, pry bar, hammer, or in lieu of a regular ratchet wrench.

3. Do not apply torque in excess of the maximum capacity of the wrench. Apply load on the grip only, and do not use any handle extension bars (a piece of pipe put over the grip).

4. Head Holder torque wrench should be used with heads. If using special heads, please set torque as formula on page 5.

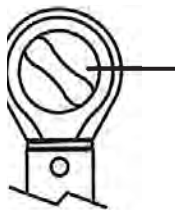
5. Make sure that you adjust the wrench to the exact torque units your specifications call for, or you will severely under-torque or over-torque, causing severe damage to the equipment you are working on.

6. Do not disassemble the wrench for any reason. Highly stressed internal components may cause severe injury when released in an unintended manner.

7. The wrench should be re-calibrated periodically. The calibration of the wrench should be checked at least once a year, after any abnormal handling or overloading, or after 5,000 cycles (“clicks”).



1. Fixed Ratchet head



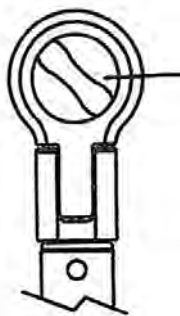
45-tooth reversible ratchet: wrench operates in both clockwise and counterclockwise direction. However, unless stated otherwise, the wrench is calibrated in clockwise direction only.



Twist shifter cap clockwise for counterclockwise direction.

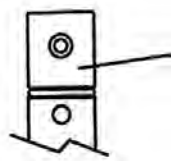
Twist shifter cap counterclockwise for clockwise direction.

2. Flex Ratchet head

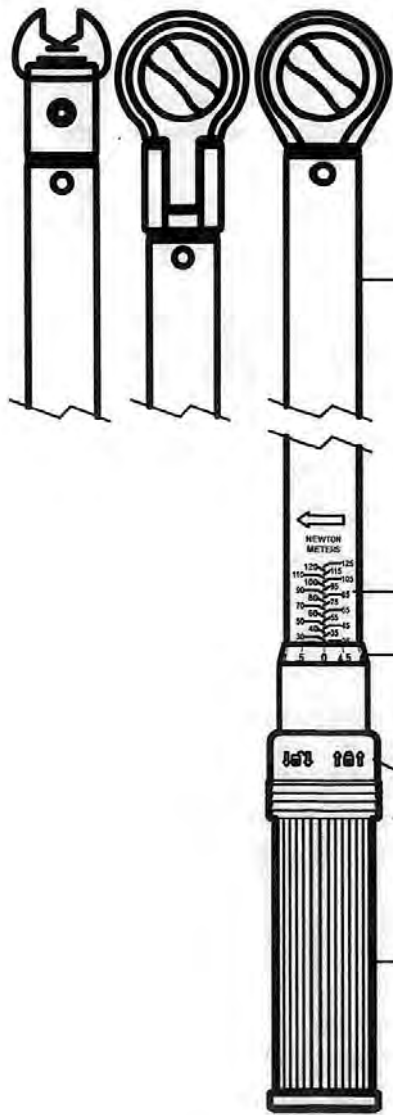


Operates the same as the Fixed Ratchet, but can be turned $\pm 15^\circ$ up or down.

3. Head holder



Holds different size Ratchet Heads, Open End, Box End or Open Box End heads.



Torque wrench indicates when the preset torque has been reached by releasing for a few degree of free travel, which is usually accompanied by an audible “clac” signal.

Hardened alloy steel housin

EASY TO READ SCALES:

Major Torque Scale

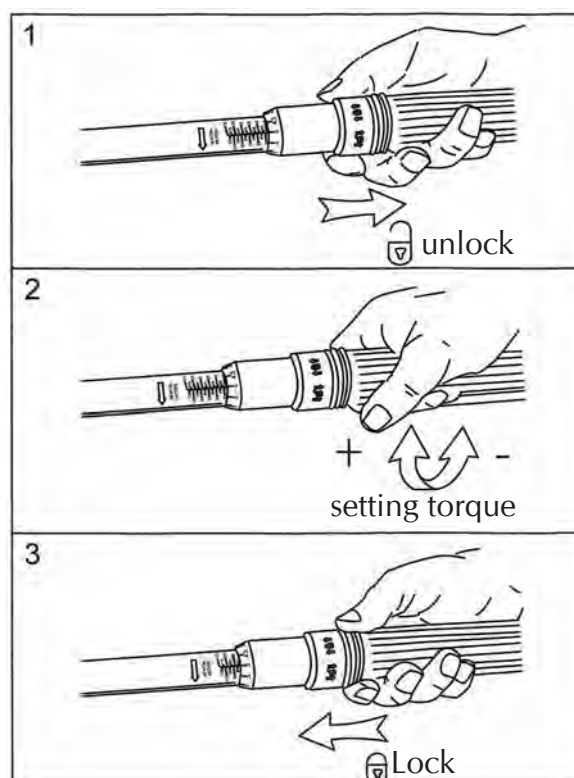
Minor Torque Scale

Pull/push style lock knob secures select torque from accidental change, easy to lock and unlock.

All-metal durable knurles grip.



SETTING TORQUE

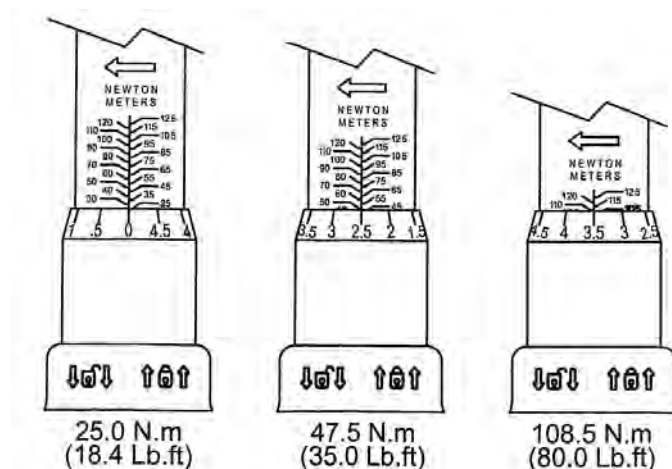




SETTING TORQUE

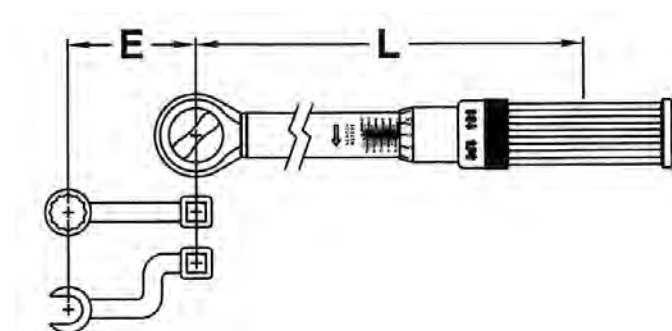
1. Pull the lock knob out downside. The locking and unlocking directions are indicated by appropriate icons on the lock knob.
2. Turn the grip in the clockwise to decrease the torque, and in the counterclockwise to increase it.
3. The major scales show the amount of torque in both primary and secondary units. The minor scale shows fine increments in primary units. See examples on the next page.
4. Push the lock knob back to lock the grip. The minor scale may move a small amount to either side of the centerline mark without affecting the accuracy of your setting.

EXAMPLES OF SETTING 125 N.m. wrench



USE OF EXTENSIONS

Attachments and non-standard heads will cause the applied torque to be different from the set torque. Consequently when using them, the set torque must be adjusted in accordance with the formula shown on below.



T(E) - Torque applied by extension (desired torque)

T(W) - Torque set on the wrench

$$T(W) = T(E) \frac{L}{L + E}$$



APPLYING TORQUE

1. Insert an appropriate socket or drive attachment onto the square drive of the ratchet and onto the fastener you want to tighten.
2. Apply hand pressure to the grip, and **ONLY TO THE GRIP**. You may support the wrench at the ratchet head with the other hand to steady it, especially when using long socket extensions, without appreciably affecting the accuracy of the wrench.
3. If, due to the required effort, you need to use both hands, put the other hand on the top of the first hand, never on any other part of the wrench.
4. Apply slow and steady pull or push until the wrench momentarily releases, with or without a distinct "click" sound. Release the pressure right at this point. **DO NOT OVERTORQUE!**



SAFETY WARNING

Overtorqued or defective fasteners, sockets, as well as the wrench itself, may suddenly break causing you to lose balance, fall, or to suffer other trauma. Be sure that you have firm footing, are properly balanced, and if necessary are using appropriate harness, back support, or other safety device.



MAINTENANCE

1. When not in use, adjust the wrench to its lowest reading, and store it in the provided case.
2. With the exception of the ratchet mechanism, do not lubricate the wrench. The ratchet mechanism may be lubricated as needed with a few drops of light machine oil.
3. Do not use acetone or the other solvents to clean the wrench, use window cleaner or denatured alcohol applied with a clean cloth instead.
4. With the exception of the ratchet mechanism, there are no user-serviceable parts. Do not disassemble the torque wrench for any reason. When service is needed, send the wrench to the nearest factory-authorized service center.



CERTIFICATION

This torque wrench is certified to have been calibrated prior to shipment to the accuracy of $\pm 4\%$ in the clockwise direction.



CERTIFICADO DE GARANTIA
GUARANTEE CERTIFICATE
CERTIFICAT DE GARANTIE

ARTICULO / ITEM / ARTICLE:

Nº DE SERIE / SERIE Nº / Nº SERIE:

DISTRIBUIDOR / DISTRIBUTOR / DISTRIBUTEUR:

PAIS / COUNTRY / PAYS: TEL.:

FECHA DE VENTA / SALE DATE / DATE VENTE:

NOMBRE DEL COMPRADOR / BUYER NAME / NOM DE L'ACHETEUR:

TEL. COMPRADOR / BUYER TEL. / TEL. DE L'ACHETEUR:

EGA MASTER GARANTIZA AL COMPRADOR DE ESTA MAQUINA LA GARANTIA TOTAL (DURANTE 12 MESES), DE LAS PIEZAS CON DEFECTOS DE FABRICACION. ESTA GARANTIA NO CUBRE AQUELLAS PIEZAS QUE POR SU USO NORMAL TIENEN UN DESGASTE. PARA OBTENER LA VALIDEZ DE LA GARANTIA, ES ABSOLUTAMENTE IMPRESCINDIBLE QUE COMPLETE Y REMITA ESTE DOCUMENTO A EGA MASTER, DENTRO DE LOS SIETE DIAS A PARTIR DE LA FECHA DE COMPRA.

EGA MASTER GUARANTEES TO THE BUYER OF THIS MACHINE THE TOTAL WARRANTY (DURING 12 MONTHS), OF THE PIECES WITH MANUFACTURING FAULTS. THIS GUARANTEE DOES NOT COVER THOSE PIECES WORN OUT DUE TO A NORMAL USE. IN ORDER TO OBTAIN THE VALIDITY OF THIS WARRANTY, IT IS ABSOLUTELY NECESSARY TO FULFILL THIS DOCUMENT AND RESEND IT TO EGA MASTER WITHIN 7 DAYS FROM SALE DATE.

EGA MASTER GARANTIE A L'ACHETEUR DE CETTE MACHINE LA GARANTIE TOTALE (PENDANT 12 MOIS) DES PIECES AVEC DEFAUTS DE FABRICATION. CETTE GARANTIE NE COUVRE PAS LES PIECES QUE PAR UN USAGE NORMAL, SOIENT DETERIOREES. POUR OBTENIR LA VALIDITE DE LA GARANTIE, IL EST ABSOLUMENT IMPERATIF COMPLETER ET ENVOYER CE DOCUMENT EGA MASTER, DANS UN DELAI DE 7 JOURS A PARTIR DE LA DATE D'ACHAT.

SELLO / STAMP / CACHET

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CERTIFICADO DE GARANTIA
GUARANTEE CERTIFICATE
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