FRONT

BACK

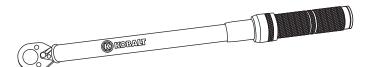


Kobalt® and the K & Design® are registered trademarks of LF, LLC. All Rights Reserved.

ITEM #0337333, 0337334 TORQUE WRENCH

MODEL # 85601 85602 **TORQUE RANGE**

3/8 in. Drive, 20 TO 100 FT-LBS 1/2 in. Drive, 50 TO 250 FT-LBS



ATTACH YOUR RECEIPT HERE

Serial Number_

_ Purchase Date_



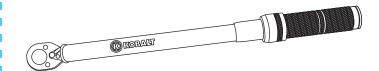
Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-888-3KOBALT, 8 a.m.- 8 p.m., EST, Monday-Friday.

Safety Markings

- Study, understand, and follow all instructions, safety precautions and warnings before operating this device.
- Do not exceed rated torque as over torquing can cause wrench and/or part failure.
- Do not use wrench to break fasteners loose.

PACKAGE CONTENTS

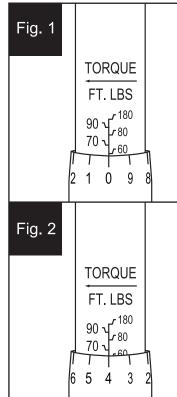
PART	DESCRIPTION	QTY
Α	Torque Wrench	1



PREPARATION BEFORE USE

Before using this product, make sure all parts are present. Compare parts with package contents list. If any part is missing or damaged, do not attempt to use the product. Contact customer service.

- 3. Turn the handle (B) and set the thimble graduation to "4" (four) on the vertical line. The torque wrench is now set at 64 ft-lb (Figure 2).
- 4. Lock the handle (B) by releasing the back pressure on lock ring (A) until you hear or feel the torque wrench "CLICK" and the handle doesn't turn.
- 5. To torque fastener, keep your hand centered on the grip handle, apply a slow steady force in the desired direction until you hear a "CLICK" or feel the impulse. Stop pulling and allow the torque wrench to reset.



NOTE:

A number of variables including the length of the adapter or extension, length of the torque wrench, and variations in hand position on the torque wrench, will affect the accuracy of the above calculation.

CONVERSION TABLE						
FROM UNIT	TO UNIT	MULTIPLY BY	FROM UNIT	TO UNIT	MULTIPLY BY	
in-oz	in-lb	0.0625	dNm	Nm	0.1000	
in-lb	in-oz	16.000	Nm	dNm	10.000	
in-lb	ft-lb	0.0834	Nm	cmkg	10.200	
in-lb	cmkg	1.1519	Nm	mkg	0.1020	
in-lb	mkg	0.0116	Nm	in-lb	8.8500	
in-lb	dNm	0.1130	Nm	ft-lb	0.7376	
in-lb	Nm	1.1300	cmkg	in-lb	0.8681	
ft-lb	in-lb	12.000	cmkg	Nm	0.0981	
ft-lb	mkg	0.1382	mkg	in-lb	86.810	
ft-lb	Nm	1.3560	mkg	ft-lb	7.2360	
dNm	in-lb	0.8850	mkg	Nm	9.8070	

The measured tolerances of these torque wrenches, as calibrated at the factory, are certified to meet the accuracy of the following testing standards: ASME B107.14-2004 and ISO:6789. Additionally, all wrenches are calibrated on a torque standard traceable to the National Institute of Standards and Technology (NIST).

CARE AND MAINTENANCE



WARNING: Ratchet mechanism may slip or break if dirty, mismatched or if worn parts are used. Ratchets that slip or break can cause injury.

SAFETY INFORMATION

Before using this product, read this manual and follow all Safety Rules and Operational Instructions.

Owner and/or Operator Responsibility

The owner and/or operator shall read and comprehend all instructions and warning labels for product and retain them for future reference.

Operation

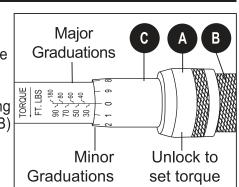
The owner and/or operator shall have an understanding of the product, its operating characteristics, safety precautions and operating instructions before operating the tool. Safety information shall be emphasized and understood. If the operator is not fluent in English, the product instructions and safety recommendations shall be read to and discussed with the operator in the operator's native language by the purchaser/owner or his designee, making sure that the operator comprehends their contents.

OPERATION INSTRUCTIONS

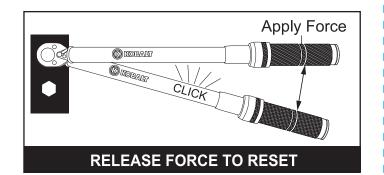


WARNING: Do not use cheater extensions on the handle to apply torque. Broken or slipping tools can cause injury.

A. To unlock
handle, hold
the body tube
and pull the
lock ring (A)
back, allowing
the handle (B)
to turn
clockwise or
counterclockwise.

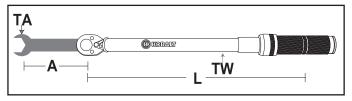


- B. Set the torque wrench to the desired torque setting as follows: **EXAMPLE 64 ft-lb**
- 1. Keep slight rearward pull on lock ring (A) during ALL adjustments.
- 2. Line up the thimble edge (C) with the "60" (sixty) graduation cross line, and the "0" (zero) with the vertical line. The torque wrench is now set at 60 ft-lb (Figure 1).



Use of Extensions and Adapters

When using an extension or adapter (increasing the effective length of the torque wrench), the output torque value will change. To calculate the new torque output of the torque wrench, use the following:



 $TW = \frac{TA \times L}{L + A}$

(TW=Torque wrench scale reading, TA=Torque exerted at the end of adapter, L=Distance between square drive and hand position,

A=Length of adapter or extension)

- 1. The torque wrench's internal mechanism is permanently lubricated during assembly. Do not attempt to lubricate the wrench's internal mechanism.
- 2. Clean wrench by wiping with clean cloth. Do not immerse wrench in liquids when cleaning.
- 3. Store torque wrench in protective case at its lowest torque setting do not force handle below its lowest setting.
- 4. Periodic re-calibration is necessary to maintain accuracy. An out-of-calibration torque wrench can cause damage to the tool.

WARRANTY

1-Year Hassle-Free Guarantee. You should never have a problem with your Kobalt tools. However, if you do, return the item to the place of purchase for a free replacement. No questions asked. For more information, call 1-888-3KOBALT, 8 a.m. - 8 p.m., EST, Monday - Friday.

SERVICE INFORMATION

For technical information or to have the wrench re-calibrated, please call customer service at 1-888-3KOBALT, 8 a.m. - 8 p.m., EST, Monday - Friday.

Printed in Taiwan