

# MICHAELPRO

OWNER'S MANUAL

MP001002

## X-TORQUE WRENCH



**SHINN FU CORPORATION**

7F., No.408 Ruei Gaung Rd Nei Hu District  
Taipei City 114 Taiwan R.O.C

[www.michael-pro.com](http://www.michael-pro.com)

## PRODUCT DESCRIPTION

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This specific torque wrench is a great innovative design approach to tire changing, intended exclusively for the controlled tightening of wheel nuts on cars, fast and safe changing tires to prevent over tightening and under tightening.

Allows to use on both tightening nuts as a torque wrench at right direction driving with set torque value and loosening nuts as a cross wrench at left direction driving free of torque.

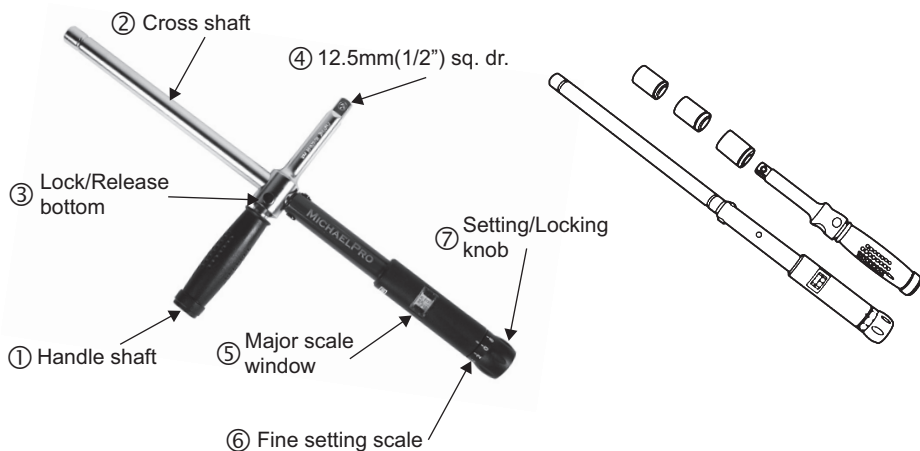
The spinning mode allows to insert and nip nut up speedily and/or quick undo nut effortlessly.

And, its shafts is detachable for a compact packaging that to store and portable.

This torque wrench is not intended for commercial or industrial applications. It is meant for private use only.

## TOOL ELEMENTS

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## SPECIFICATIONS

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Square drive	: 12.5mm (1/2")
Type	: Acoustic "click" sound and light retroaction
Range of work	: 70 – 170 Nm ( 50 – 130 FTLB )
Actuation accuracy	: +/- 4%
Length of handle bar	: 235 mm
Length of Cross bar	: 490 mm
Weight	: approx. 1500g
Accessory	: 17-19-21 mm sockets ( 11/16"-3/4"-13/16" )

## GENERAL OPERATING SAFTY NOTES

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**Please note the following safety notes and instructions for use in this manual to avoid malfunctions, damage or physical injure:**

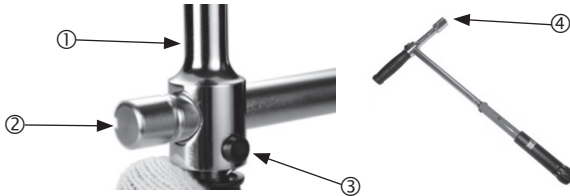
- This tool is not intended for use by individuals (including children) with limited physical, sensorial or mental abilities or deficiencies in experience and/or persons unfamiliar with the torque wrench unless they are supervised by a person responsible for their safety or receive from this instruction in how the torque wrench is to be used.
- Children should be supervised to ensure that they do not play with the torque wrench.
- When using torque tools it is possible that fasteners may break or slip. Always stand with both feet on the floor and avoid applying torque in awkward positions.
- Note! The torque wrench function is only available for right direction at longest cross bar ② leverage mode shown on below.  
Set torque to lowest level (70 Nm) if you are using the torque wrench as a general-purpose driving wrench at left direction for loosening nuts.
- Warning! Do not use any improvised extension rods or universal ball joints, as these could result in incorrect torque settings.
- Warning! Do not step down on the scale window and the handle of the cross shaft ②, it may be break and risk of injury.
- The drive part of the tool and any accessories should always be in line with the fastener. Misalignment and uncontrolled movement will affect accuracy.
- Do not exert any pressure on the torque wrench beyond the set torque. This might lead to damage to the wrench or the nut.
- Do not turn adjustment below lowest torque setting.
- The torque wrench was checked and calibrated with an accuracy +/- 4% at the factory. Recommend that your torque tool be calibrated after about 5,000 cycles or after 12 months by educated people.
- Ensure that the torque is set at the lowest level (70 Nm) if you are not using or are storing the torque wrench.

## INSTRUCTIONS FOR USE

### A. Work with torque wrench

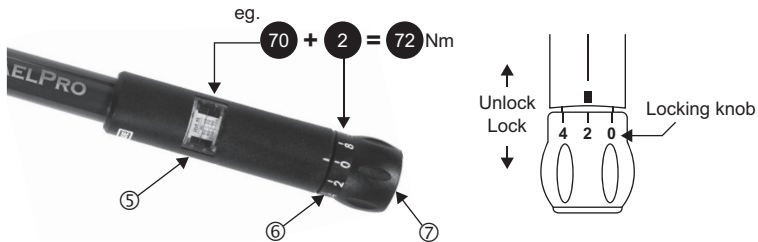
#### 1. Torque wrench mode.

- 1) Press lock/release bottom ③, slide handle shaft ① to the end of cross shaft ② and lock.
- 2) Note: The torque wrench function is only available in this mode.
- 3) Install proper socket onto square head ④ of handle shaft ①.



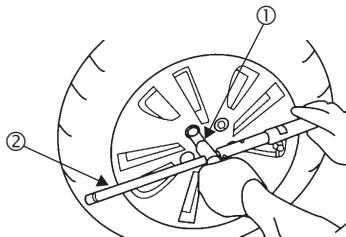
#### 2. Setting the torque easily.

- 1) Push setting/ locking knob ⑦ to "unlock".
- 2) Dial setting/locking knob ⑦ until desired torque setting is displayed by cursor (red line) in scale window ⑤, graduations on the major scale are in 10 Newton Meter increments and fine setting knob ⑥ is 1 Newton Meter, odd number is in the middle between two even numbers.
- 3) Pull slightly then release the setting/locking knob ⑦ will lock by a spring-load automatically.



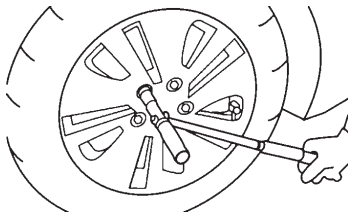
#### 3. Speed spinning mode

- 1) Place handle shaft ① in the middle of cross shaft ② to insert and nip nuts up speedily.



## 4. Final torque setting

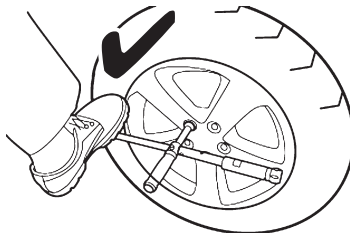
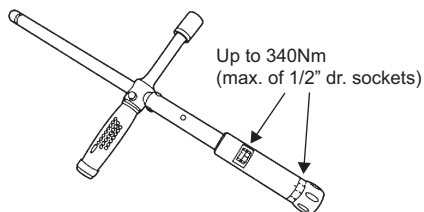
- 1) Grasp handle of torque wrench and drive with steady force until a "click" is heard and/or a light retroaction felt, the set torque has been achieved. Do not continue to drive when wrench clicks.
- 2) Please note that the "click" becomes weaker with the lower torque settings.



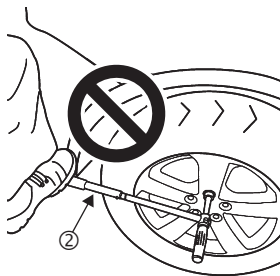
## B. Work as a cross wrench for loosening nut

### 1. Leverage power mode.

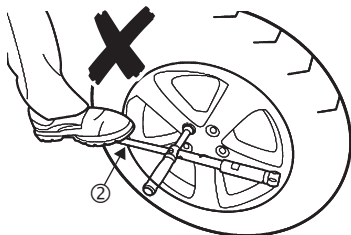
- 1) For a power mode as cross wrench which loosens nuts up to 340Nm (max. of 1/2" dr. sockets).



- 2) **Warning! DO NOT** place foot alignment onto the end of cross shaft ②, the back bound may cause injury of knee.

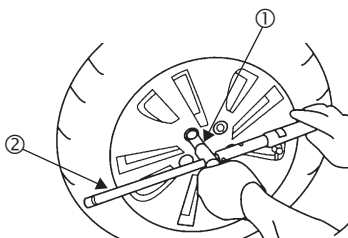


- 3) **Warning! DO NOT** step down on the scale of window and handle of cross shaft ②, it may break and risk of injury.



## 2. Speed spinning mode.

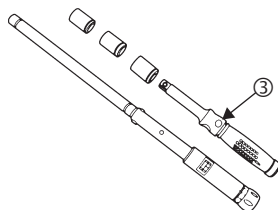
- 1) Place the handle shaft ① in the middle of cross shaft ②, quick spinning for unscrew the bolt effortlessly.
- 2) This mode is free of torque, doesn't effect of torque setting.



## STORAGE

### Storage mode

- 1) This torque wrench is detachable by press lock/release bottom ③.
- 2) Store the torque wrench in the protective packaging. It should be stored at the lowest torque setting.



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