



## PLT-12250 Split Beam Torque Wrench Owner's Manual



### Features:

- Certified DIN ISO accurate to  $\pm 4\%$  CW (specific calibration) results at the time of manufacture will be shown on the included certificate)
- Serialized Certificate of Calibration - each wrench is calibrated according to ASME B107.300-2010 standard; detailed test results are recorded on the included certificate
- Head flexes up to 15 degrees for improved access

### Specifications:

- Drive Type: 1/2", fixed non-ratcheting
- Range: 50-250 ft.-lbs.
- Increments: 5 ft.-lbs.
- Overall Length: 24.2"

# Operating Instructions

## Description

ATD's split beam click torque wrench is a precision instrument designed to accurately measure torque. Other uses should be avoided. It should NEVER be used to break loose stubborn fasteners. The self-contained torque limiting mechanism employs an exclusive, patented design that minimizes friction, and is rugged and dependable. The precision made part is sealed so dirt or liquids cannot easily affect the built-in accuracy of the mechanism. The wrench is not affected by extreme changes of temperature.

## Unpacking

After unpacking unit, make sure all parts are present. If any part is missing or damaged, do not attempt to use the product. Contact customer service. Shipping damage claim must be filed with carrier.

## Specifications

Model	Drive	Head Type	Primary Scale	
			Torque Range	Increment
PLT-12250	1/2"	Flex	50- 250 FT./LBS.	5

## General Safety Information

Always wear safety goggles when using this product. Your torque wrench was calibrated and tested before leaving the factory and is guaranteed to meet or exceed ASME B107.14 standard. Because your torque wrench is a precision measuring instrument, it should be serviced by and authorized repair center such as:

### Angle Repair & Calibration

175 Angle Drive  
Beckley, WV 25801  
304-253-5729



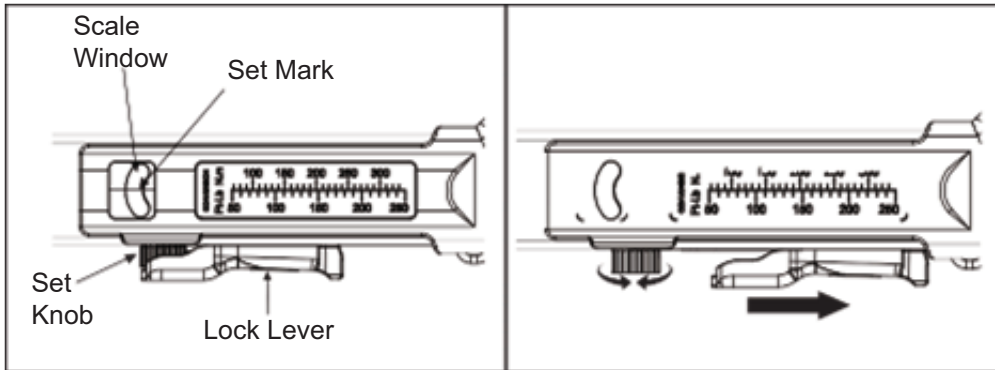
**DO NOT** continue pulling on the wrench after the pre-set torque has been reached. Pressure must be taken off the handle and the wrench must be allowed to automatically reset itself.



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

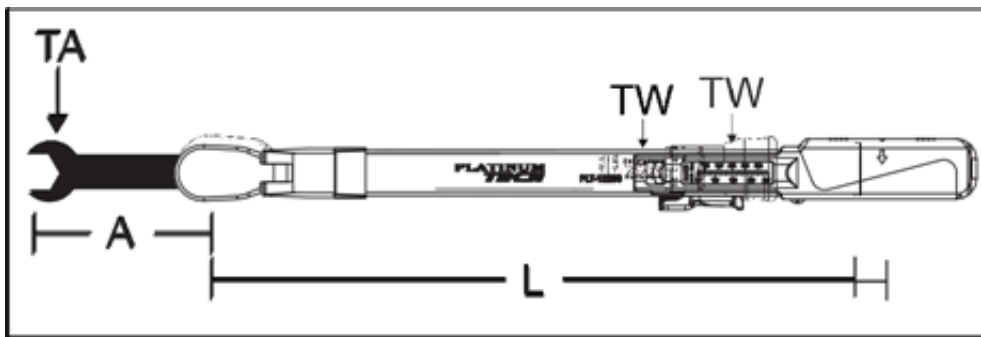
## Operation

1. Pull the lock lever back to the position.
2. Adjust the set knob to desired scale.
3. Push the lock lever forward to the position.
4. Install the proper socket or attachment to the square drive and apply to the object being torqued. Applying a steady pull to the center of handle, and stop pulling until you hear a "click" sound. The release is distinct and unmistakable. It can be felt as well as heard. When pressure is removed from the handle, the torque wrench will automatically reset itself.



### 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 formula:



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

TW = Torque wrench scale reading  
 TA = Torque exerted at end of adapter  
 L = Distance between square drive and hand position  
 A = Length of adapter or extension

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

## Conversion Table

FROM UNIT TO UNIT		MULTIPLY BY	FROM UNIT TO UNIT		
in.-oz.	in.-lb.	0.0625	dNm	Nm	
in.-lb.	in.-oz.	16.0000	Nm	cNm	100.0000
in.-lb.	ft.-lb.	0.0834	Nm	Kgf.cm	10.2000
in.-lb.	Kgf.cm	1.1519	Nm	Kgf.m	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	Kgf.cm	in.-lb.	0.8681
ft.-lb.	in.-lb.	12.0000	Kgf.cm	ft.-lb.	0.0981
ft.-lb.	Kgf.m	0.1382	Kgf.m	in.-lb.	86.8100
ft.-lb.	Nm	1.3560	Kgf.m	ft.-lb.	7.2360
dNm	in.-lb.	0.8850	Kgf.m	Nm	9.8070

### Maintenance

Safety precautions should be followed. The following information will keep the product operating properly.

#### MINOR AND ROUTINE MAINTENANCE

1. The internal mechanism of split beam torque wrench is 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 recalibration is necessary to maintain accuracy, once a year or after 5,000 times usage. An out-of-calibration torque wrench can cause damage to the tool.

#### MAJOR MAINTENANCE, SERVICE AND PART REPLACEMENT

1. Disassembly of the torque wrench is not suggested. Please contact your local service center if you have any questions.
2. Head kits are available as spare parts. The part number is PRT12250-HK. Order from your ATD Tools supplier.



# PLATINUM TECH<sup>®</sup> WARRANTY

**1 YEAR LIMITED WARRANTY**

**THIS WARRANTY AND CONFIRMED RECEIPT(S) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES**

Your PLT-12250 is warranted for a period of 12 months from the original purchase date.

For a period of one (1) year from your purchase date, ATD Tools, Inc. will repair any defect in material or workmanship free of charge. Improper use of these products, including but not limited to the application of excessive force will affect performance and may result in injury. The warranty does not apply to wrenches which do not function properly or within specified accuracy because of wear, improper or unreasonable use, damage not resulting from defect or malfunction, or which have been altered. Calibration is warranted for 90 days.

If this ATD product is altered, abused, misused, modified, or undergoes service by an unauthorized technician, your warranty will be void. We are not responsible for damage to ornamental designs you place on this ATD product and such ornamentation should not cover any warnings or instructions or they may void the warranty. This warranty does not cover scratches, superficial dents, and other abrasions to the finish that occur under normal use. It also does not cover normal wear items unless they are deemed to be factory defective.

For warranty consideration, or for paid repair or calibration send wrench prepaid to:

Angle Repair Services, Inc.  
175 Angle Drive  
Beckley, West Virginia 25801  
304-253-5729

Include a copy of your proof of purchase for any warranty request.

Subject to the law in your state:

- (1) Your sole and exclusive remedy is repair or replacement of the defective product as described above.
- (2) ATD is not liable for any incidental damages, including but not limited to, lost profits and unforeseeable consequences.
- (3) The repair and replacement of this product under the express limited warranty described above is your exclusive remedy and is provided in lieu of all other warranties, express or implied. All other warranties, including implied warranties and warranties of merchantability or fitness for a particular purpose are disclaimed and, if disclaimer is prohibited, these warranties are limited to one year from your date of purchase of this product.

Some states' laws do not allow limited durations on certain implied warranties and some states' laws do not allow limitations on incidental or consequential damages. You should consult the law in your state to determine how your rights may vary.

[Affix receipt or invoice here for safe keeping]