

# TA652 TORQUE WRENCH - 3/8" sq dr

MICROMETER ADJUSTMENT - RIGHT HAND CLICK ONLY

OPERATING RANGE 2 - 24 Nm (**0.2 - 2.4 Kg M**)

A precision measuring instrument accurate to  $\pm 4\%$  manufactured to U.S. Federal Specification GGG-W-00686C. The micrometer adjustment allows the torque to be pre-set to the required setting.

## **GUIDANCE INSTRUCTIONS**

**FOR THE CORRECT TORQUE SETTING AND TIGHTENING SEQUENCE ALWAYS REFER TO THE MANUFACTURER'S MAINTENANCE MANUAL FOR THE EQUIPMENT BEING SERVICED.**

If the torque wrench is being used for the first time, or has not been used for a while, it must be operated several times at a low torque setting to re-coat the operating mechanism with the internal lubricant.

1. Turn lock nut anti-clockwise to release the knurled handle.
2. To pre-set torque wrench to 11.6 Nm :
  - a). Turn knurled handle until the zero mark on the bevel edge is in line with both the vertical mark on the case and the 10 Nm graduation on the main scale.
  - b). Turn the knurled handle clockwise until the 1.6 Nm lbs mark on the bevel edge is in line with the vertical mark on the case.
3. Turn lock nut clockwise to lock the handle in place.  
The torque wrench is now pre-set to 11.6 Nm.
4. Fit the correct socket or accessory to the 3/8" drive and fit squarely over the workpiece. Pull the wrench handle until you either feel or hear the wrench "click" when the pre-set torque setting is reached. The wrench will automatically reset for the next operation when the tension is released.

**N.B. DO NOT CONTINUE APPLYING FORCE WHEN THE PRE-SET VALUE HAS BEEN REACHED, AS EXCESSIVE TORQUE WILL BE APPLIED WHICH MAY RESULT IN DAMAGE TO THE WORKPIECE. PARTICULAR CARE IS REQUIRED WHEN WORKING AT VERY LOW TORQUE SETTINGS.**

5. When not in use the wrench should be stored at the lowest torque setting.  
**DO NOT TURN THE HANDLE BELOW THE LOWEST SETTING.**
6. Wipe wrench clean after use. **DO NOT IMMERSE IN ANY LIQUID OR CLEANER AS THIS MAY DAMAGE THE INTERNAL LUBRICANT.**

**DO NOT EXCEED THE STATED CAPACITY RANGE - FOR ANGULAR SETTINGS WHERE NECESSARY A SUITABLE ALTERNATIVE 3/8" SQ DR ACCESSORY MUST BE USED TO COMPLETE THE PRESCRIBED SETTING PROCEDURE.**  
**DO NOT USE A TORQUE WRENCH AS A SUBSTITUTE KNUCKLE BAR**  
**DO NOT ADJUST THE LARGE HEXAGON NUT ON THE HANDLE ASSEMBLY - THIS MAY ALTER THE CALIBRATION AND RENDER ANY FUTURE READINGS UNRELIABLE**  
**RE-CALIBRATION SHOULD ONLY BE PERFORMED BY A QUALIFIED TECHNICIAN.**

**PLEASE NOTE THAT 1 FT LB = 12 IN LB**

In Lb Nm	In Lbs to KgM	In Lbs to Nm	Nm to In Lbs	Nm to Kg M	KgM	Kg M to In Lbs	Kg M to Nm
10	0.1	1.1	88.5	1.0	0.1	8.7	1.0
15	0.2	1.7	132.8	1.5	0.2	17.4	2.0
20	0.2	2.3	177.0	2.0	0.3	26.0	2.9
25	0.3	2.8	221.3	2.5	0.4	34.7	3.9
30	0.3	3.4	265.5	3.1	0.5	43.4	4.9
35	0.4	4.0	309.8	3.6	0.6	52.1	5.9
40	0.5	4.5	354.0	4.1	0.7	60.8	6.9
45	0.5	5.1	398.3	4.6	0.8	69.4	7.8
50	0.6	5.6	442.5	5.1	0.9	78.1	8.8
55	0.6	6.2	486.8	5.6	1.0	86.8	9.8
60	0.7	6.8	531.0	6.1	1.5	130.2	14.7
65	0.7	7.3	575.3	6.6	2.0	173.6	19.6
70	0.8	7.9	619.6	7.1	2.5	217.0	24.5
75	0.9	8.5	663.8	7.6	3.0	260.4	29.4
80	0.9	9.0	708.1	8.2	3.5	303.8	34.3
85	1.0	9.6	752.3	8.7	4.0	347.2	39.2
90	1.0	10.2	796.6	9.2	4.5	390.6	44.1
95	1.1	10.7	840.8	9.7	5.0	434.0	49.0
100	1.2	11.3	885.1	10.2	5.5	477.4	53.9
150	1.7	16.9	1327.6	15.3	6.0	520.8	58.8
200	2.3	22.6	1770.1	20.4	6.5	564.2	63.7
250	2.9	28.2	2212.7	25.5	7.0	607.6	68.6
300	3.5	33.9	2655.2	30.6	7.5	651.0	73.5
350	4.0	39.5	3097.8	35.7	8.0	694.4	78.5
400	4.6	45.2	3540.3	40.8	8.5	737.8	83.4
450	5.2	50.8	3982.8	45.9	9.0	781.2	88.3
500	5.8	56.5	4425.4	51.0	9.5	824.6	93.2
550	6.3	62.1	4867.9	56.1	10.0	868.0	98.1
600	6.9	67.8	5310.4	61.2	15.0	1301.9	147.1
650	7.5	73.4	5753.0	66.3	20.0	1735.9	196.1
700	8.1	79.1	6195.5	71.4	25.0	2169.9	245.2