Pro Torque Wrench Instruction Manual

To Set Torque

1. Locate the locking ring on the torque wrench handle.
2. Unlock adjustable handle by pulling the locking ring to the unlock position towards the end of the wrench.
3. Turn adjustable handle to desired setting. The Pedro's Pro Torque Wrench will apply 53-266 inch-pounds or 61-306 kg-cm. **The handle will become harder to turn as the torque setting is increased. This is part of the normal operation of the wrench.**
4. Push locking ring to locked position to lock desired setting.

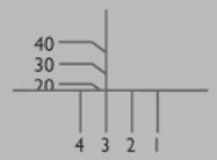
To Apply Torque

1. Set ratchet lever for desired direction of rotation.
2. Install proper socket or attachment to square drive.
3. Place socket or attachment firmly and squarely on fastener to be tightened.
4. Tighten fastener to desired torque by smoothly applying pressure to wrench handle only until a click is felt or heard in the wrench. This is caused by the wrench head pivoting as the desired torque is reached. **Do not continue to apply force after desired torque is reached, as this may damage the fastener or wrench.**
5. Release pressure on wrench to reset for next use.

Wrench Storage

After use, unlock adjustable handle and return wrench to lowest torque setting to remove tension from the internal mechanism. Before first use, or after extended storage, adjust wrench to highest torque setting and operate click mechanism 5-10 times to redistribute the factory applied lubricant oil to the internal mechanism. Wrench may be wiped clean with a cloth. Do not use solvents, or attempt to lubricate the mechanism of the wrench. The wrench is factory lubricated for optimum operation.

How to Read Micrometer Scales



The above example shows a value of 23. This is found by adding the horizontal and vertical readings.

Usage Tips

1. Always follow available manufacturer's specifications for fastener torque settings.
2. Do not use your torque wrench to loosen fasteners that have been tightened using standard tools. Since the torque of the fastener is unknown, you risk damaging the torque wrench through overloading.
3. Torque wrench is accurate within +/- 4 % but, all torque wrenches lose accuracy with use. Recommended calibration interval is 3 months with heavy (daily) usage.
4. Torque specifications are dependent on lubrication of the fastener. Check with component manufacturer if it is unclear if fastener is supposed to be lubricated.

Torque Conversion Chart

N-m	kg-cm	ft-lbs	in-lbs
1	10	0.7	9
2	20	1.5	18
3	31	2.2	27
4	41	3.0	35
5	51	3.7	44
6	61	4.4	53
7	71	5.2	62
8	82	5.9	71
9	92	6.6	80
10	102	7.4	89
11	112	8.1	97
12	122	8.9	106
13	133	9.6	115
14	143	10.3	124
15	153	11.1	133
16	163	11.8	142
17	173	12.5	150
18	184	13.3	159
19	194	14.0	168
20	204	14.8	177
21	214	15.5	186
22	224	16.2	195
23	235	17.0	204
24	245	17.7	212
25	255	18.4	221
26	265	19.2	230
27	276	19.9	239
28	286	20.7	248
29	296	21.4	257
30	306	22.1	266
31	316	22.9	274
32	327	23.6	283
33	337	24.3	292
34	347	25.1	301
35	357	25.8	310
36	367	26.6	319
37	378	27.3	328
38	388	28.0	336
39	398	28.8	345
40	408	29.5	354
41	418	30.2	363
42	429	31.0	372
43	439	31.7	381
44	449	32.5	389
45	459	33.2	398
46	469	33.9	407
47	480	34.7	416
48	490	35.4	425
49	500	36.1	434
50	510	36.9	443
51	520	37.6	451
52	531	38.4	460
53	541	39.1	469
54	551	39.8	478
55	561	40.6	487
56	571	41.3	496
57	582	42.0	505
58	592	42.8	513
59	602	43.5	522
60	612	44.3	531
61	622	45.0	540
62	633	45.7	549
63	643	46.5	558
64	653	47.2	567
65	663	47.9	575
66	673	48.7	584
67	684	49.4	593
68	694	50.2	602
69	704	50.9	611
70	714	51.6	620