

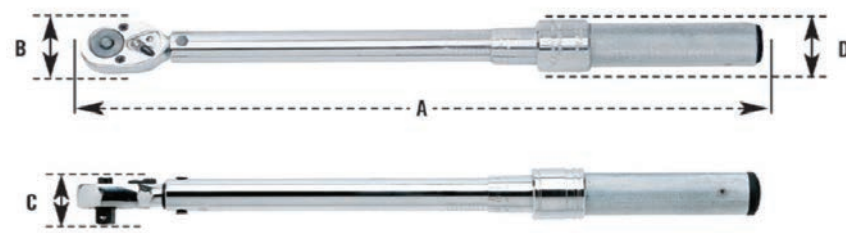
TORQUE WRENCHES



MICRO-ADJUSTABLE "CLICK TYPE" METAL HANDLE TORQUE WRENCHES

Precision instrument for precise tightening on installation applications. Accurate, ± 4% clockwise, ± 6% counterclockwise direction @ 20% to 100% of scale range. All parts made from alloy tool steel for long life accuracy and durability during industrial use. Pull down lock ring, rotate grip to desired torque setting and release lock ring for positive locking position. During use, a distinct "breaking" action and clicking noise occurs when the set torque has been realized. Dual scale – English and metric. Easy to read, laser marked scales. Handles are lightly knurled for a positive, non-slip grip. Ratchet head models are 24 tooth industrial grade ratchets. Each torque wrench has its own serial number and "Certificate of Calibration" traceable to N.I.S.T. Meets or exceeds ASME B107.300 Torque Instrument standard. Torque wrenches stored in a black blow molded plastic box except 8447, 8448 are in a red metal box and 8449 is in a cardboard box. 8447 and 8448 each have 1 extension and 8449 has 2 extensions. Extensions must be used for correct torquing.

| PART NUMBER | DRIVE SIZE (INCH) | ACCURATE TORQUE RANGE | | UOM | INCR. | HEAD STYLE | A LENGTH (INCH) | B WORKING END WIDTH (INCH) | C WORKING END THICKNESS (INCH) | D WIDTH ACROSS KNOB (INCH) | PART WT. (LBS.) | SHIP WT. (LBS.) |
|-------------|-------------------|-----------------------|--------|--------|-------|------------|-----------------|----------------------------|--------------------------------|----------------------------|-----------------|-----------------|
| | | ENGLISH | METRIC | | | | | | | | | |
| INCH POUNDS | | | | | | | | | | | | |
| 2477 | 1/4 | 30-150 | | in-lbs | 1 | Ratchet | 10 | 1.06 | 0.93 | 1.06 | 0.87 | 1.50 |
| 3478 | 3/8 | 40-200 | | in-lbs | 1 | Ratchet | 10 | 1.06 | 0.93 | 1.06 | 0.89 | 1.50 |
| 3479 | 3/8 | 200-1,000 | | in-lbs | 5 | Ratchet | 15.5 | 1.43 | 1.20 | 1.40 | 2.50 | 3.40 |
| 4476 | 1/2 | 700-1,600 | | in-lbs | 10 | Ratchet | 19 | 1.70 | 1.40 | 1.40 | 3.15 | 4.50 |
| 4479 | 1/2 | 500-2,500 | | in-lbs | 10 | Ratchet | 19.25 | 1.70 | 1.40 | 1.40 | 3.15 | 4.50 |
| FOOT POUNDS | | | | | | | | | | | | |
| 3447 | 3/8 | 15-75 | | ft-lbs | 0.5 | Ratchet | 15.5 | 1.43 | 1.20 | 1.40 | 2.50 | 3.40 |
| 3477 | 3/8 | 20-100 | | ft-lbs | 0.5 | Ratchet | 15.5 | 1.43 | 1.20 | 1.40 | 2.50 | 3.40 |
| 4477 | 1/2 | 30-150 | | ft-lbs | 1 | Ratchet | 19 | 1.70 | 1.40 | 1.40 | 3.15 | 4.50 |
| 4478 | 1/2 | 50-250 | | ft-lbs | 1 | Ratchet | 24 | 1.70 | 1.40 | 1.40 | 3.75 | 5.14 |
| 6448 | 3/4 | 120-600 | | ft-lbs | 5 | Ratchet | 41 | 2.50 | 2 | 1.40 | 11.75 | 17.60 |
| 8447 | 1 | 200-1,000 | | ft-lbs | 5 | Ratchet | 70 | 3 | 3 | 1.50 | 26.25 | 42.50 |
| 8448 | 1 | 200-1,000 | | ft-lbs | 5 | Fixed Head | 70 | 3 | 3 | 1.50 | 23.10 | 39.40 |
| 8449 | 1 | 400-2,000 | | ft-lbs | 10 | Fixed Head | 108 | 4 | 4.25 | 2.20 | 52.50 | 56.60 |

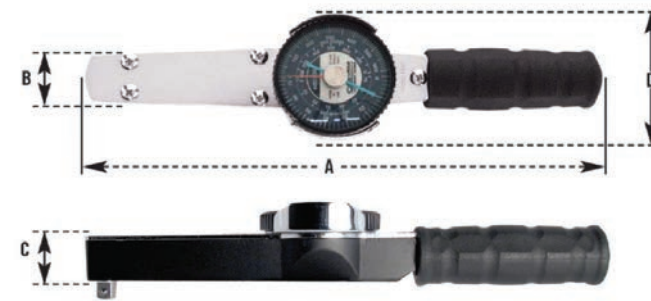


| REPAIR KITS | |
|-----------------|--|
| 61-100-8RKTONY | Ratchet head repair kit for 2477 |
| 46-500-12RKTONY | Ratchet head repair kit for 3447, 3477, 3479 |
| 61-100-10RKTONY | Ratchet head repair kit for 3478 |
| 96-500-8RKTONY | Ratchet head repair kit for 4476, 4477, 4478, 4479 |
| 9610-0112RK | Ratchet head repair kit for 6448 |
| 9610-0111RK | Ratchet head repair kit for 8447 |

DIAL TORQUE WRENCHES

Precision instrument for precise tightening on installation applications. Accurate, ± 4% clockwise and counterclockwise directions @ 20% to 100% of scale range. Sturdy torsion beam design for long life and accuracy. Large easy to read dial is shock resistant and protected by a tough metal guard. Dual scale – English and metric. Memory needle retains highest torque value applied. 6472, 8471 and 8472 are electric and include a light with audible buzzer. Each torque wrench has its own serial number and storage box. Certificate of Calibration traceable to N.I.S.T. Meets or exceeds ASME B107.300 Torque Instrument standard. All dial torque wrenches are fixed head, non ratcheting squares. Torque wrenches stored in a black blow molded plastic box except 8470, 8471 are in a red metal box and 8472 is in a cardboard box. 6470, 6472, 8470 and 8471 each include one extension which must be used for correct torquing. 8472 is a T type wrench with 1" drive internal and external heads and 5 extensions. Requires two person operation.

| PART NUMBER | DRIVE SIZE (INCH) | ACCURATE TORQUE RANGE | | UOM | INCR. | HEAD STYLE | A LENGTH (INCH) | B WORKING END WIDTH (INCH) | C WORKING END THICKNESS (INCH) | D WIDTH ACROSS DIAL (INCH) | PART WT. (LBS.) | SHIP WT. (LBS.) |
|-------------|-------------------|-----------------------|--------|--------|-------|------------|-----------------|----------------------------|--------------------------------|----------------------------|-----------------|-----------------|
| | | ENGLISH | METRIC | | | | | | | | | |
| INCH POUNDS | | | | | | | | | | | | |
| 2470 | 1/4 | 6-30 | | in-lbs | 0.50 | Ratchet | 11.25 | 1.10 | 1.20 | 2.75 | 1.08 | 2.50 |
| 2471 | 1/4 | 15-75 | | in-lbs | 1 | Ratchet | 11.25 | 1.10 | 1.20 | 2.75 | 1.08 | 2.50 |
| 3470 | 3/8 | 30-150 | | in-lbs | 2 | Ratchet | 11.25 | 1.10 | 1.20 | 2.75 | 1.08 | 2.50 |
| 3471 | 3/8 | 50-250 | | in-lbs | 5 | Ratchet | 11.25 | 1.10 | 1.20 | 2.75 | 1.08 | 2.50 |
| 3472 | 3/8 | 120-600 | | in-lbs | 10 | Ratchet | 14.88 | 1.50 | 1.20 | 2.75 | 1.61 | 3 |
| FOOT POUNDS | | | | | | | | | | | | |
| 3473 | 3/8 | 10-50 | | ft-lbs | 1 | Ratchet | 14.88 | 1.50 | 1.20 | 2.75 | 1.61 | 3 |
| 4470 | 1/2 | 35-175 | | ft-lbs | 5 | Ratchet | 21.75 | 2.25 | 1.50 | 2.75 | 4 | 6.20 |
| 4471 | 1/2 | 50-250 | | ft-lbs | 5 | Ratchet | 21.75 | 2.25 | 1.50 | 2.75 | 4 | 6.30 |
| 6471 | 3/4 | 70-350 | | ft-lbs | 10 | Ratchet | 28 | 2.25 | 1.50 | 2.75 | 7.50 | 13.90 |
| 6470 | 3/4 | 120-600 | | ft-lbs | 10 | Ratchet | 46.75 | 2.50 | 1.50 | 2.75 | 10 | 16.30 |
| 6472 | 3/4 | 120-600 | | ft-lbs | 10 | Ratchet | 46.75 | 2.50 | 2.50 | 3.25 | 9.60 | 16.40 |
| 8470 | 1 | 200-1,000 | | ft-lbs | 20 | Ratchet | 74 | 2.50 | 3.50 | 3 | 16.90 | 33.20 |
| 8471 | 1 | 200-1,000 | | ft-lbs | 20 | Ratchet | 74 | 2.50 | 3.25 | 3 | 17 | 32.80 |
| 8472 | 1 | 400-2,000 | | ft-lbs | 40 | Ratchet | 122 | 3.50 | 6.50 | 3.50 | 42 | 44.10 |



8472

