

# Utica® Torque Limiting Screwdrivers

## Standard Models



- Standard product calibrated right hand only. Left hand calibration on request.
- Choice of adjustable models with precision micrometer scale or factory preset models.
- U.S. Standard or metric scales
- Precision micrometer scale (adjustable models) calibrated in inch-ounces or inch-pounds. Metric models: cm-kg.
- Easy-release bit holders securely retain bits during operation while permitting easy removal.
- Anti-backlash design for repeatability.
- Meets or exceeds ASME B107.14M and ISO 6789 specifications.
- Adjustable model accuracy is  $\pm 6\%$  of setting, starting at 20% of full scale to full scale. Right hand only.

### Adjustable Models

| Model No.     | Range          | Collar Color | Increments | Hex Drive  | Weight<br>lbs.    kg. |     |
|---------------|----------------|--------------|------------|------------|-----------------------|-----|
| U.S. Standard |                |              |            |            |                       |     |
| TS-100        | 20–100 in.-oz. | Black        | 2 in.-oz.  | 1/4 Female | .50                   | .23 |
| TS-30         | 6–30 in.-lb.   | Red          | 1 in.-lb.  | 1/4 Female | .50                   | .23 |
| TS-35         | 6–36 in.-lb.   | Blue         | 1 in.-lb.  | 1/4 Female | .50                   | .23 |

### Metric

|        |           |      |       |            |     |     |
|--------|-----------|------|-------|------------|-----|-----|
| TS-3M* | .7–3.5 Nm | Gold | .1 Nm | 1/4 Female | .50 | .23 |
|--------|-----------|------|-------|------------|-----|-----|

If calibration certification is required, request at time of purchase (extra charge).

### Preset Models (Preset models are designed for highly repetitive assembly line operations.)

| Model No. | Range   |         |         |        | Hex Drive  |
|-----------|---------|---------|---------|--------|------------|
|           | in.-oz. | in.-lb. | Nm      | cm-kg  |            |
| TS-SN-1   | 20–150  | 1.5–10  | .15–1.1 | 1.5–12 | 1/4 Female |
| TS-SN-2   | 128–640 | 8–40    | 1–4.5   | 9–45   | 1/4 Female |

If calibration certification is required, request at time of purchase (extra charge).

**NOTE:** When ordering preset tools, specify desired torque setting.



TS-30

TS-SN-1

# Utica® Torque Limiting Screwdrivers

## Standard Model Accessories & Kits

### Hex Bits

| Part No. | Hex Size | Cap Screw Size | Set Screw Size | Flathead Screw Size |
|----------|----------|----------------|----------------|---------------------|
| 185-000X | 050      | 0              | 3,4            | 1,2                 |
| 185-00X  | 1/16     | 1              | 5,6            | 3,4                 |
| 185-0X   | 5/64     | 2,3            | 8              | 5,6                 |
| 185-1X   | 3/32     | 4,5            | 10             | 8                   |
| 185-9X   | 7/64     | 6              | -              | -                   |
| 185-2X   | 1/8      | -              | 1/4            | 10                  |
| 185-10X  | 9/64     | 8              | -              | -                   |
| 185-3X   | 5/32     | 10             | 5/16           | 1/4                 |
| 185-4X   | 3/16     | 1/4            | 3/8            | -                   |

### Phillips Bits

| Part No. | Point Size | Screw Size |
|----------|------------|------------|
| 446-0X   | 0          | 0,1        |
| 446-1X   | 1          | 2,3,4      |
| 446-2X   | 2          | 5,6,7,8,10 |
| 440-3X   | 3          | 12,14      |

### Screwdriver Bits

| Part No. | Blade Width | Blade Thickness | Screw Size |
|----------|-------------|-----------------|------------|
| 445-00X  | .134        | .028            | 2,3        |
| 445-0X   | .155        | .030            | 3,4        |
| 445-10X  | .185        | .034            | 4,5        |
| 445-20X  | .214        | .036            | 5,6        |
| 445-30X  | .250        | .040            | 6,8        |

### Kit No. KT-100

Range 20-100 in.-oz. 20 piece

| Qty. | Description                            |
|------|----------------------------------------|
| 1    | Adj. torque screwdriver 1/4" fm. hex   |
| 1    | Torque screwdriver bld. .000           |
| 1    | Torque screwdriver bld. .100           |
| 1    | Hex socket 3/32"                       |
| 1    | Hex socket 7/64"                       |
| 1    | Hex key .028                           |
| 1    | Hex key .035                           |
| 1    | Screwdriver hex bit .050               |
| 1    | Screwdriver hex bit 1/16"              |
| 1    | Screwdriver hex bit 5/64"              |
| 1    | Screwdriver bld. torque screw SZ. 2, 3 |
| 1    | Screwdriver bld. torque screw SZ. 4, 5 |
| 1    | Phillips bld. torque screw SZ. 0, 1    |
| 1    | Phillips bld. torque screw SZ. 2, 3, 4 |
| 1    | Adapter 1/4" drive                     |
| 1    | Bit holder mini. torque                |
| 1    | 1/4" Dr. reg. socket 1/8"              |
| 1    | 1/4" Dr. reg. socket 3/16"             |
| 1    | Plas/case                              |
| 1    | Insert                                 |

### Kit No. KT-30

Range 6 to 30 in.-lb. 24 piece

| Qty. | Description                            |
|------|----------------------------------------|
| 1    | Adj. torque screwdriver 1/4" fm. hex   |
| 1    | Torque screwdriver bld. .100           |
| 1    | Hex socket 7/64"                       |
| 1    | Hex key .035                           |
| 1    | Screwdriver hex bit .050               |
| 1    | Screwdriver hex bit 1/16"              |
| 1    | Screwdriver hex bit 5/64"              |
| 1    | Screwdriver hex bit 3/32"              |
| 1    | Screwdriver hex bit 1/8"               |
| 1    | Screwdriver hex bit 5/32"              |
| 1    | Screwdriver bld. torque screw SZ. 2, 3 |
| 1    | Screwdriver bld. torque screw SZ. 4, 5 |
| 1    | Screwdriver bld. torque screw SZ. 5, 6 |
| 1    | Screwdriver bld. torque screw SZ. 6, 8 |
| 1    | Phillips bld. torque screw SZ. 0, 1    |
| 1    | Phillips bld. torque screw SZ. 2, 3, 4 |
| 1    | Adapter 1/4" drive                     |
| 1    | Bit holder mini. torque                |
| 1    | 1/4" Dr. reg. socket 1/8"              |
| 1    | 1/4" Dr. reg. socket 3/16"             |
| 1    | 1/4" Dr. reg. socket 1/4"              |
| 1    | 1/4" Dr. reg. socket 5/16"             |
| 1    | Plas/case                              |
| 1    | Insert                                 |

### Square Drive Adapter

| Part No. | Description            |
|----------|------------------------|
| 44-71-B  | 1/4 Hex to 1/4 Square. |

### Bit Holders

| Part No. | Square Drive (in.) | Female Hex (in.) |          |
|----------|--------------------|------------------|----------|
| 825      | 1/4                | 1/4              |          |
| M-825    | 1/4                | 1/4              | Magnetic |

### SAE Size Sockets

| Part No. | Square Dr. (in.) | Hex Opening (in.) |
|----------|------------------|-------------------|
| 1108     | 1/4              | 1/4               |
| 1110     | 1/4              | 5/16              |
| 1112     | 1/4              | 3/8               |
| 1114     | 1/4              | 7/16              |

### Metric Size Sockets

| Part No. | Square Dr. (in.) | Hex Opening (mm) |
|----------|------------------|------------------|
| 6mm11    | 1/4              | 6mm              |
| 7mm11    | 1/4              | 7mm              |
| 8mm11    | 1/4              | 8mm              |
| 10mm11   | 1/4              | 10mm             |

### Miniature Bit Holders

| Part No. | Description                                                                             |
|----------|-----------------------------------------------------------------------------------------|
| HW-19    | To adapt miniature accessories for use in standard models. See page 11 for accessories. |

### Kit No. KT-130

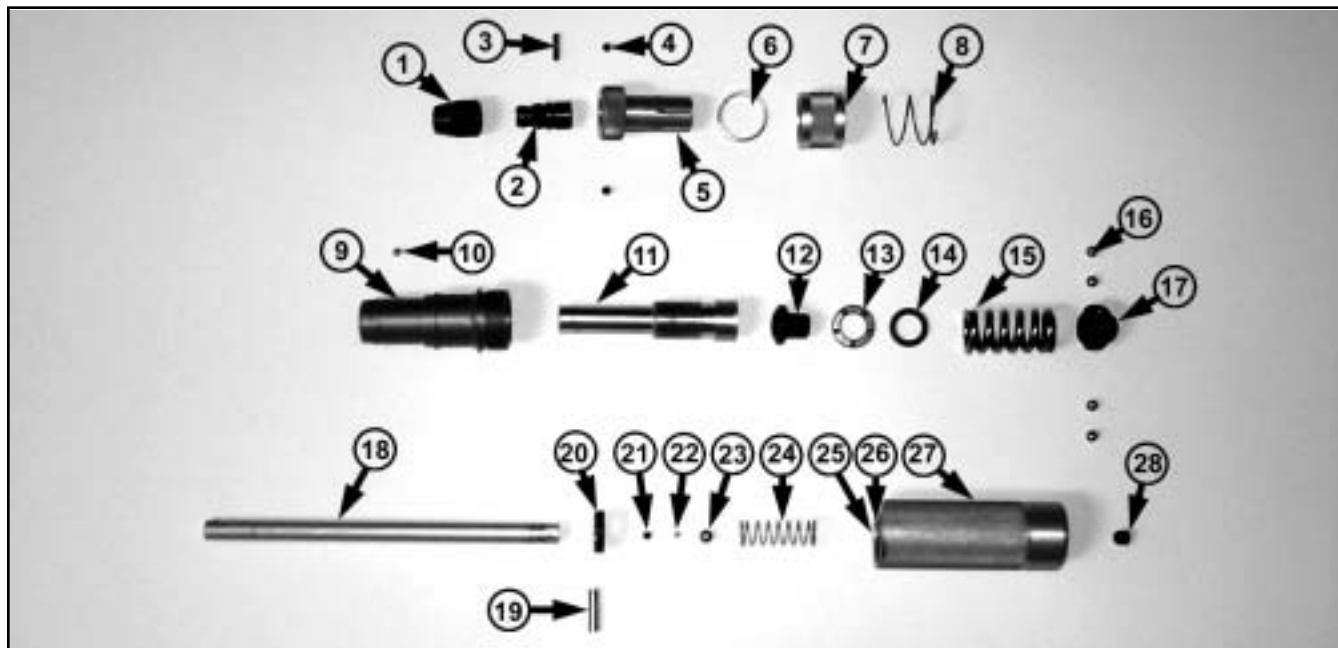
Range 20 in.-oz. to 30 in.-lb. 43 piece

| Qty. | Description                                   |
|------|-----------------------------------------------|
| 1    | Adj. torque screwdriver 1/4" fm. hex          |
| 1    | Adj. torque screwdriver 1/4" fm. hex          |
| 1    | Torque screwdriver bld. .080                  |
| 2    | Torque screwdriver bld. .100                  |
| 1    | Hex socket 3/32"                              |
| 2    | Hex socket 7/64"                              |
| 1    | Hex key .028                                  |
| 2    | Hex key .035                                  |
| 2    | Screwdriver hex bit .050                      |
| 2    | Screwdriver hex bit 1/16"                     |
| 2    | Screwdriver hex bit 5/64"                     |
| 1    | Screwdriver hex bit 3/32"                     |
| 1    | Screwdriver hex bit 1/8"                      |
| 1    | Screwdriver hex bit 5/32"                     |
| 2    | Screwdriver bld. torque screw SZ. 2, 3        |
| 2    | Screwdriver bld. torque screw SZ. 4, 5        |
| 1    | Screwdriver bld. torque screw SZ. 5, 6        |
| 1    | Screwdriver bld. torque screw SZ. 6, 8        |
| 2    | Phillips bld. torque screw SZ. 0, 1           |
| 2    | Phillips bld. torque screw SZ. 2, 3, 4        |
| 1    | Phillips bld. torque screw SZ. 4, 6, 7, 8, 10 |
| 2    | Adapter 1/4" drive                            |
| 2    | Bit holder mini. torque                       |
| 1    | 1/4" Dr. reg. socket 1/8"                     |
| 1    | 1/4" Dr. reg. socket 5/32"                    |
| 2    | 1/4" Dr. reg. socket 3/16"                    |
| 1    | 1/4" Dr. reg. socket 1/4"                     |
| 1    | 1/4" Dr. reg. socket 5/16"                    |
| 1    | Plas/case                                     |
| 1    | Insert                                        |

**CAUTION:** 1. Under normal use, periodic recalibration may be necessary to ensure accurate readings and applied torque.  
2. FOR EXTENDED SPRING LIFE, RETURN TO LOWEST SETTING AFTER EACH USE.



**IMPORTANT: Unauthorized repair of this product may void warranty (all parts may not be servicable).**



### Service Repair Parts for TS-30, TS-30CM, TS-35, and TS-100 Adjustable Torque Screwdrivers

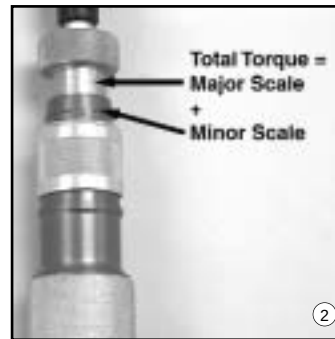
| Index | Description            | TS-30      | TS-30CM    | TS-35      | TS-100     |   |
|-------|------------------------|------------|------------|------------|------------|---|
| 1     | Outer Bit Holder       | 8502871095 | 8502871095 | 8502871095 | 8502871095 | 1 |
| 2     | Inner Bit Holder       | 8502871094 | 8502871094 | 8502871094 | 8502871094 | 1 |
| 3     | Spirol Pin             | 4502870142 | 4502870142 | 4502870142 | 4502870142 | 1 |
| 4     | #6-32 Set Screw        | 4502870135 | 4502870135 | 4502870135 | 4502870135 | 2 |
| 5     | Sleeve                 | 8502870118 | 8502870187 | 8502870112 | 8502870119 | 1 |
| 6     | Snap Ring              | 4502870137 | 4502870137 | 4502870137 | 4502870137 | 1 |
| 7     | Lock Collar            | 8502870105 | 8502870105 | 8502870105 | 8502870105 | 1 |
| 8     | Lock Collar Spring     | 4502870138 | 4502870138 | 4502870138 | 4502870138 | 1 |
| 9     | Front Barrel           | 8502870116 | 8502870188 | 8502870115 | 8502870117 | 1 |
| 10    | Steel Ball             | 4502840356 | 4502840356 | 4502840356 | 4502840356 | 1 |
| 11    | Adjusting Plug         | 8602870184 | 8602870184 | 8602870184 | 8602870184 | 1 |
| 12    | Spacer                 | 8502870109 | 8502870109 | 8502870109 | 8502870109 | 1 |
| 13    | Thrust Bearing         | 4502870113 | 4502870113 | 4502870113 | 4502870113 | 1 |
| 14    | Thrust Washer          | 8502870108 | 8502870108 | 8502870108 | 8502870108 | 1 |
| 15    | Torque Spring          | 4502870145 | 4502870145 | 4502870145 | 4502870140 | 1 |
| 16    | Steel Ball             | 4502870143 | 4502870143 | 4502870143 | 4502870143 | 4 |
| 17    | Cam                    | 8502870101 | 8502870101 | 8502870101 | 8502870101 | 1 |
| 18    | Adjusting Shaft        | 8502870129 | 8502870129 | 8502870129 | 8502870129 | 1 |
| 19    | Roller Pin             | 4502870103 | 4502870103 | 4502870103 | 4502870103 | 1 |
| 20    | Shaft Retainer         | 8502870127 | 8502870127 | 8502870127 | 8502870127 | 1 |
| 21    | #6-32 X 1/8" Set Screw | 4502840376 | 4502840376 | 4502840376 | 4502840376 | 1 |
| 22    | 3/32" Steel Ball       | 4502840377 | 4502840377 | 4502840377 | 4502840377 | 1 |
| 23    | Steel Ball             | 4502870144 | 4502870144 | 4502870144 | 4502870144 | 1 |
| 24    | Compression Spring     | 4502870141 | 4502870141 | 4502870141 | 4502870141 | 1 |
| 25    | Cam Insert             | 8502870106 | 8502870106 | 8502870106 | 8502870106 | 1 |
| 26    | Spacer                 | 8502870102 | 8502870102 | 8502870102 | 8502870102 | 1 |
| 27    | Handle                 | 8502870107 | 8502870107 | 8502870107 | 8502870107 | 1 |
| 28    | Set Screw              | 4502840359 | 4502840359 | 4502840359 | 4502840359 | 1 |

**CooperTools**

P.O. Box 1410

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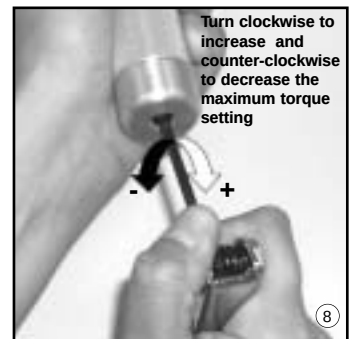
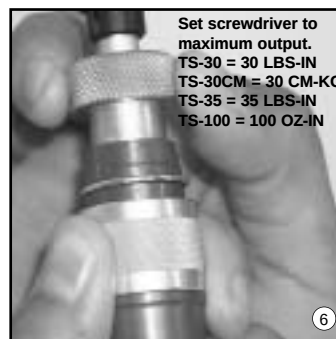
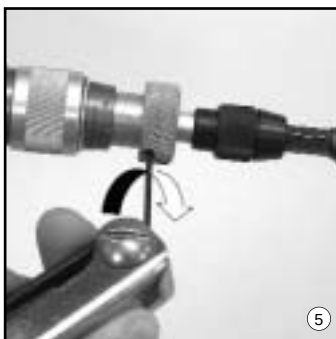
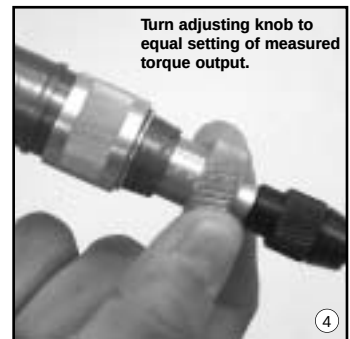
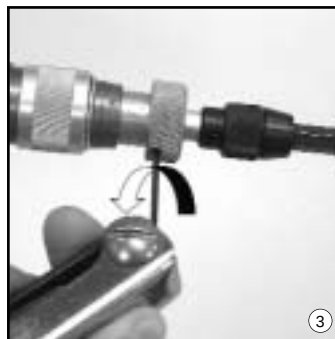
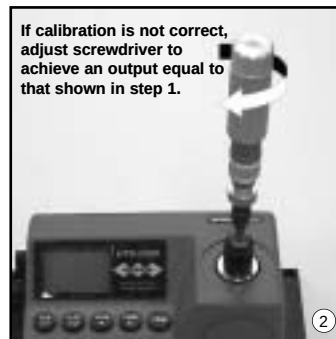
## Inserting and Removing Bits



## Recalibration of the Utica



**Proper Calibration equipment is required to ensure accuracy!**



For torque certification return to your nearest sales and service center