

# Maintenance Guide

Square Drive Hydraulic Torque Wrench

## TU Series

### TU-27

### TU-60



*torquing*

# Maintenance Supplies



1. TU-27 Cylinder for demonstration purposes 2. Light grease 3. Breaker bar with 7/8" socket 4. Ratchet  
5. 1/4" allen wrench 6. Flat tip screwdriver 7. Brass drift 8. 3/8" punch 9. Center punch 10. 5/16" allen wrench  
11. 5/32" allen wrench 12. Hammer (18 oz.) 13. Dead blow hammer 14. Teflon tape 15. TU-27 gland wrench 16. Marine moly

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Remove factory installed  
reaction arm by pressing down  
on release button

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Remove 1<sup>st</sup>  
shroud screw (using  
5/32" allen wrench)

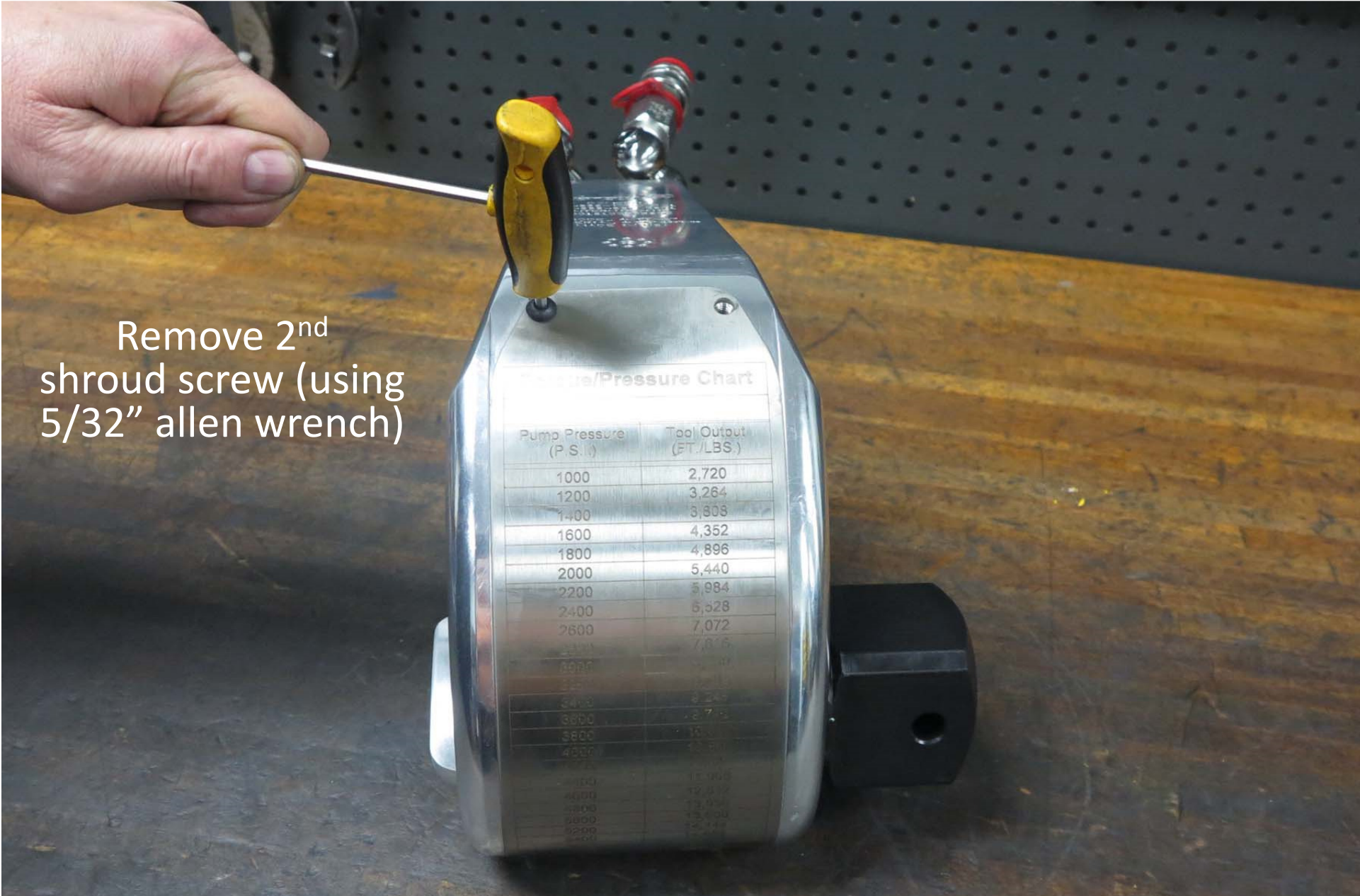


Pressure Chart

Pump Pressure (P.S.I.)	Tool Output (FT./LBS.)
1000	2,720
1200	3,264
1400	3,808
1600	4,352
1800	4,896
2000	5,440
2200	5,984
2400	6,528
2600	7,072
2800	7,616
3000	8,160
3200	8,704
3400	9,248
3600	9,792
3800	10,336
4000	10,880
4200	11,424
4400	11,968
4600	12,512
4800	13,056
5000	13,600

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700




Remove 2<sup>nd</sup>  
shroud screw (using  
5/32" allen wrench)

Pressure/Pressure Chart

Pump Pressure (P.S.I.)	Tool Output (FT./LBS.)
1000	2,720
1200	3,264
1400	3,808
1600	4,352
1800	4,896
2000	5,440
2200	5,984
2400	6,528
2600	7,072
2800	7,616
3000	8,160
3200	8,704
3400	9,248
3600	9,792
3800	10,336
4000	10,880
4200	11,424
4400	11,968
4600	12,512
4800	13,056
5000	13,600

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



View of two shroud  
screws removed

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Remove 3<sup>rd</sup> shroud screw  
(using 5/32" allen wrench)



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700


Remove 4<sup>th</sup>  
shroud screw  
(Using 5/32" allen wrench)



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700





Remove 1<sup>st</sup> housing  
threaded plug screw  
(using 5/16" allen  
wrench)

**TU** Square Drive  
Hydraulic Torque Wrenches

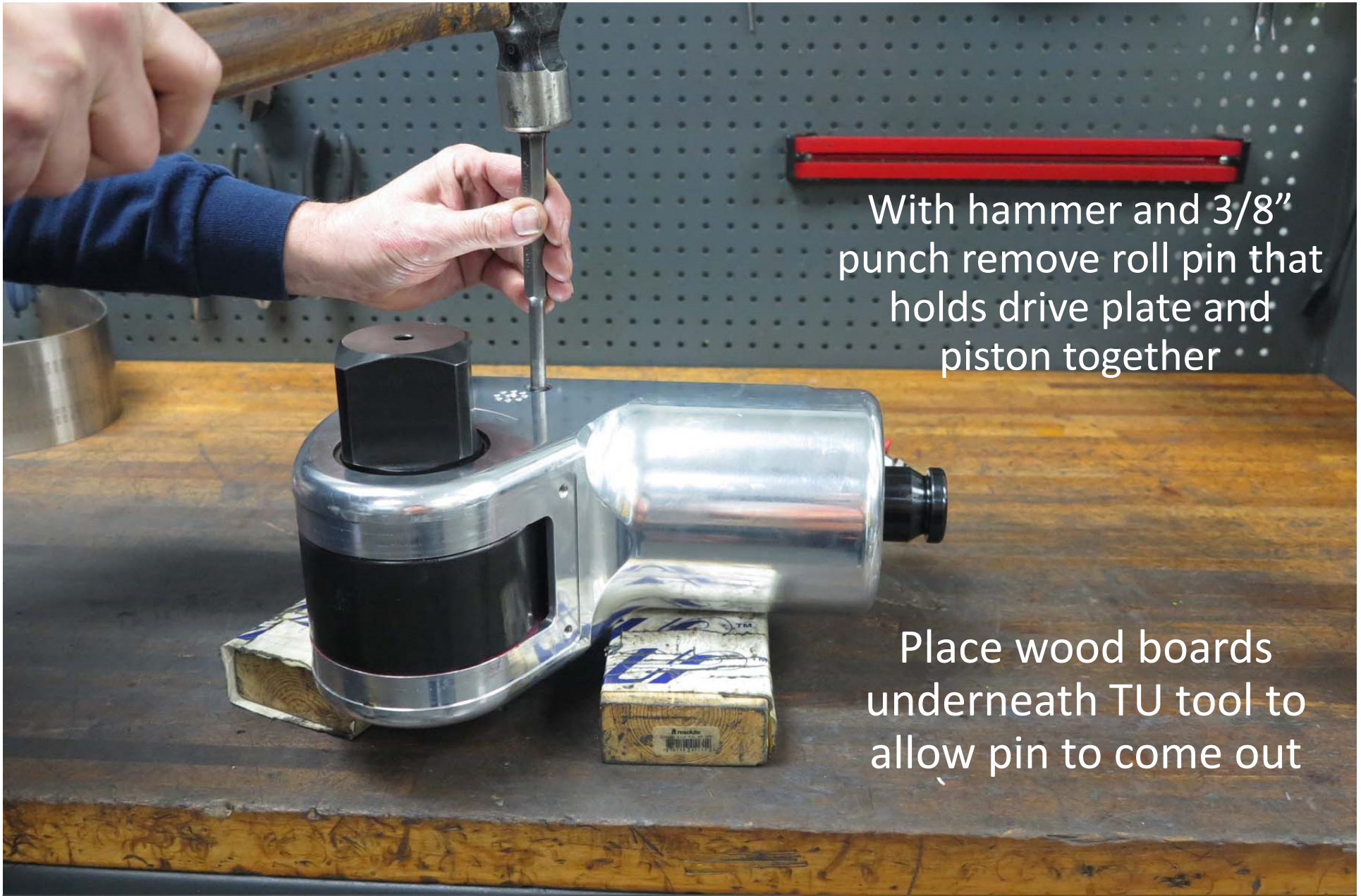
TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Remove 2<sup>nd</sup> housing  
threaded plug screw  
(using 5/16" allen wrench)

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



With hammer and 3/8" punch remove roll pin that holds drive plate and piston together

Place wood boards underneath TU tool to allow pin to come out

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Roll pin after removal



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Loosen square  
drive retaining cap

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Remove square  
drive  
retaining cap

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Remove square drive



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Using small flat tip screw driver  
remove 1<sup>st</sup> retaining ring



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700





Flip tool over,  
remove 2<sup>nd</sup>  
retaining ring with  
flat tip screw driver

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Remove 1<sup>st</sup> sleeve



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Flip tool on other side  
and remove 2<sup>nd</sup> sleeve



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Remove drive plate, ratchet and segment



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Disassemble ratchet and  
segment from drive plate

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700




Display of  
ratchet  
segment and  
springs after  
removal from  
drive plate

Be aware of tension on segment  
to prohibit spring ejection

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

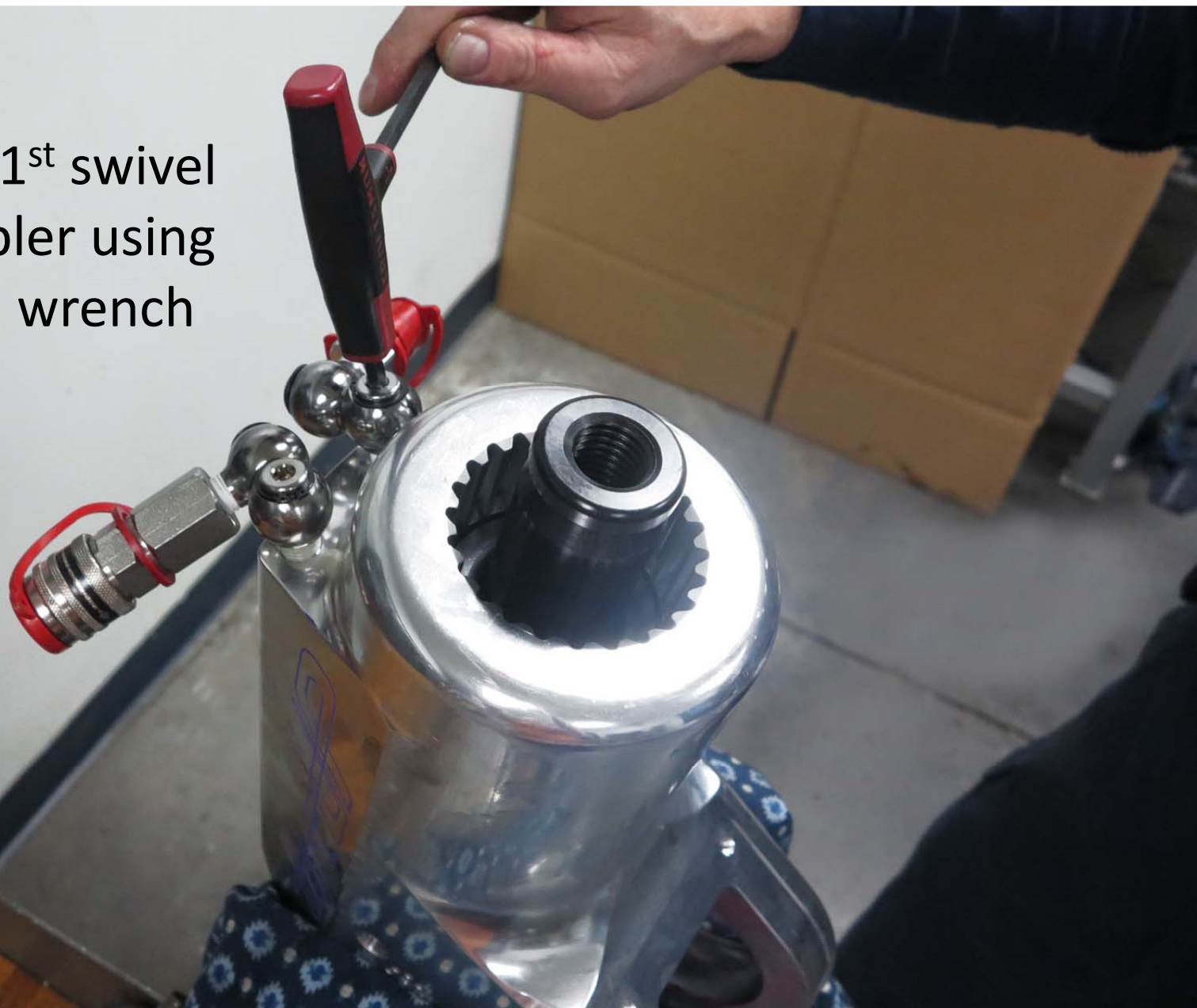


Place tool  
in vise

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700


Remove 1<sup>st</sup> swivel  
and coupler using  
¼" allen wrench



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700






Remove 2<sup>nd</sup>  
swivel and  
coupler using 1/4"  
allen wrench

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

A hydraulic torque wrench is shown being flipped over in a vise. The wrench is made of polished metal and has a blue and white floral patterned cloth draped over its handle. The wrench is held in a metal vise, and the background shows a wooden floor and a cardboard box.

Flip tool  
over in vise

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

A close-up photograph showing a person's hand placing a conical metal gland wrench onto a matching conical metal gland. The gland is part of a larger, complex metal assembly, likely a hydraulic torque wrench. The background is a plain wall and a cardboard box.

Install gland  
wrench onto gland

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Gland wrench installed

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: [sales@torcup.com](mailto:sales@torcup.com) W: [www.torcup.com](http://www.torcup.com)  
P: +1 610-250-5800 F: +1 610-250-2700

A close-up photograph showing a person's hand using a 7/8 inch socket and a breaker bar to loosen a gland on a hydraulic torque wrench. The wrench is mounted on a workbench, and the gland is being turned counter-clockwise. The wrench has a blue and white floral patterned cover. The background is a plain, light-colored wall.

Loosen gland with  
7/8" socket  
and a breaker bar on  
top of gland wrench

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Remove gland and set aside



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Flip tool over  
in vise

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Hit down on end  
plug with brass  
drift and hammer



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700





Showing end plug and  
piston removed

**TU** Square Drive  
Hydraulic Torque Wrenches

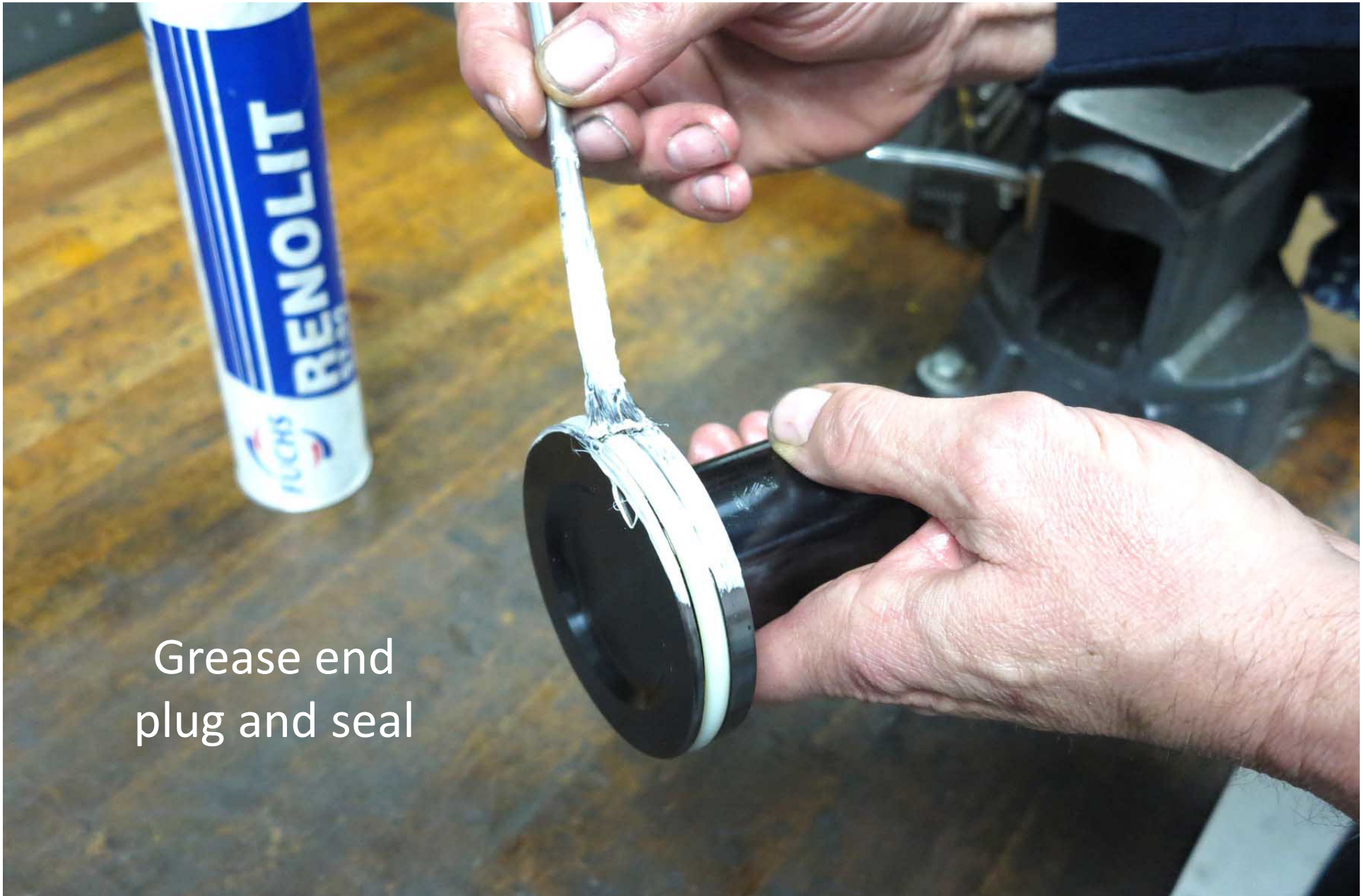
TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: [sales@torcup.com](mailto:sales@torcup.com) W: [www.torcup.com](http://www.torcup.com)  
P: +1 610-250-5800 F: +1 610-250-2700



Clean and inspect  
all pieces of tool

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

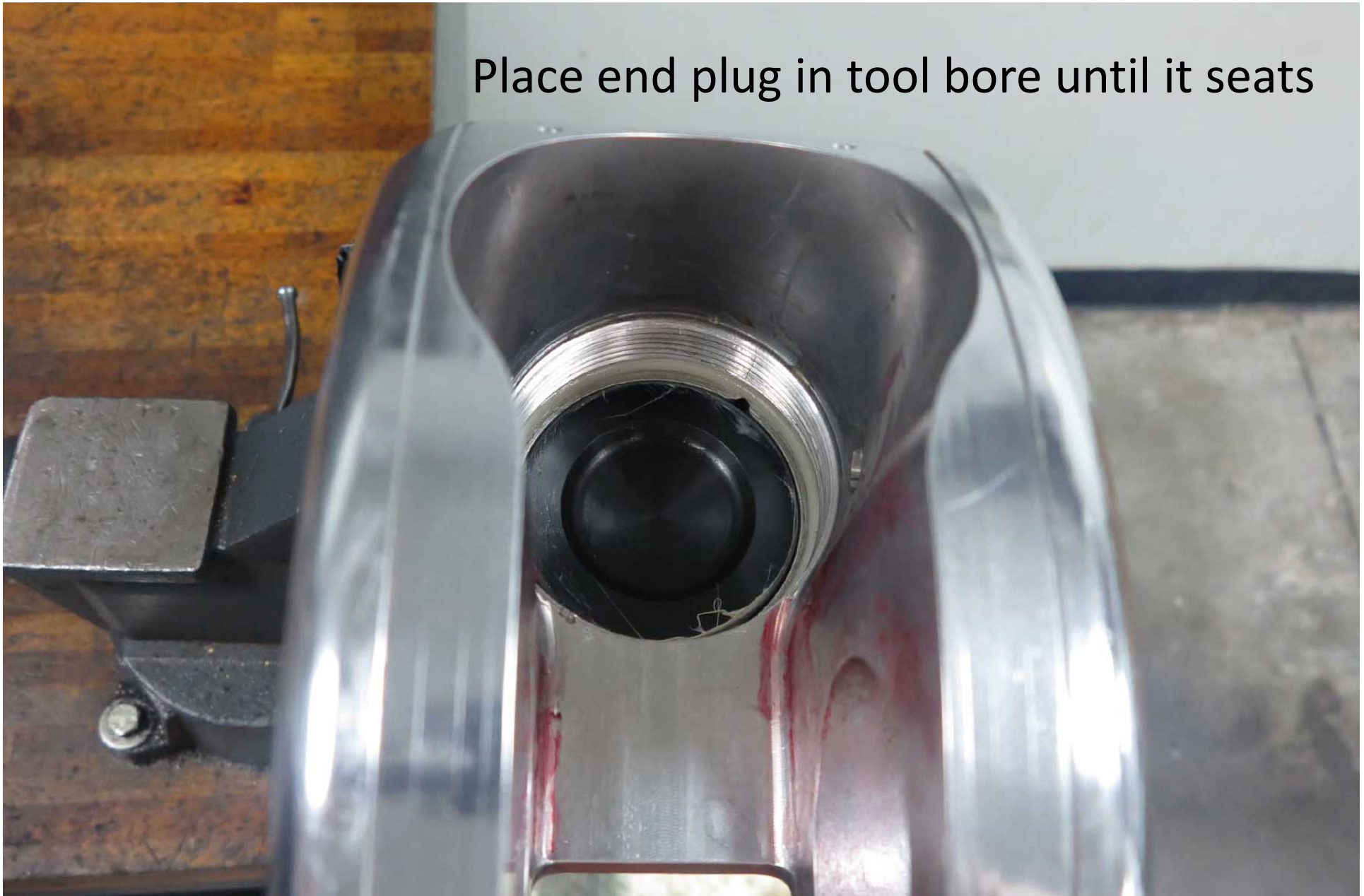


Grease end  
plug and seal

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Place end plug in tool bore until it seats



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Hit down on end plug with  
drift and hammer

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: [sales@torcup.com](mailto:sales@torcup.com) W: [www.torcup.com](http://www.torcup.com)  
P: +1 610-250-5800 F: +1 610-250-2700



Grease piston rod  
assembly and seal

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Install piston  
rod into tool

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: [sales@torcup.com](mailto:sales@torcup.com) W: [www.torcup.com](http://www.torcup.com)  
P: +1 610-250-5800 F: +1 610-250-2700



Hit down on piston rod  
with dead blow hammer  
until end plug reaches  
bottom of bore

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700





Displaying  
piston in place

**TU** Square Drive  
Hydraulic Torque Wrenches

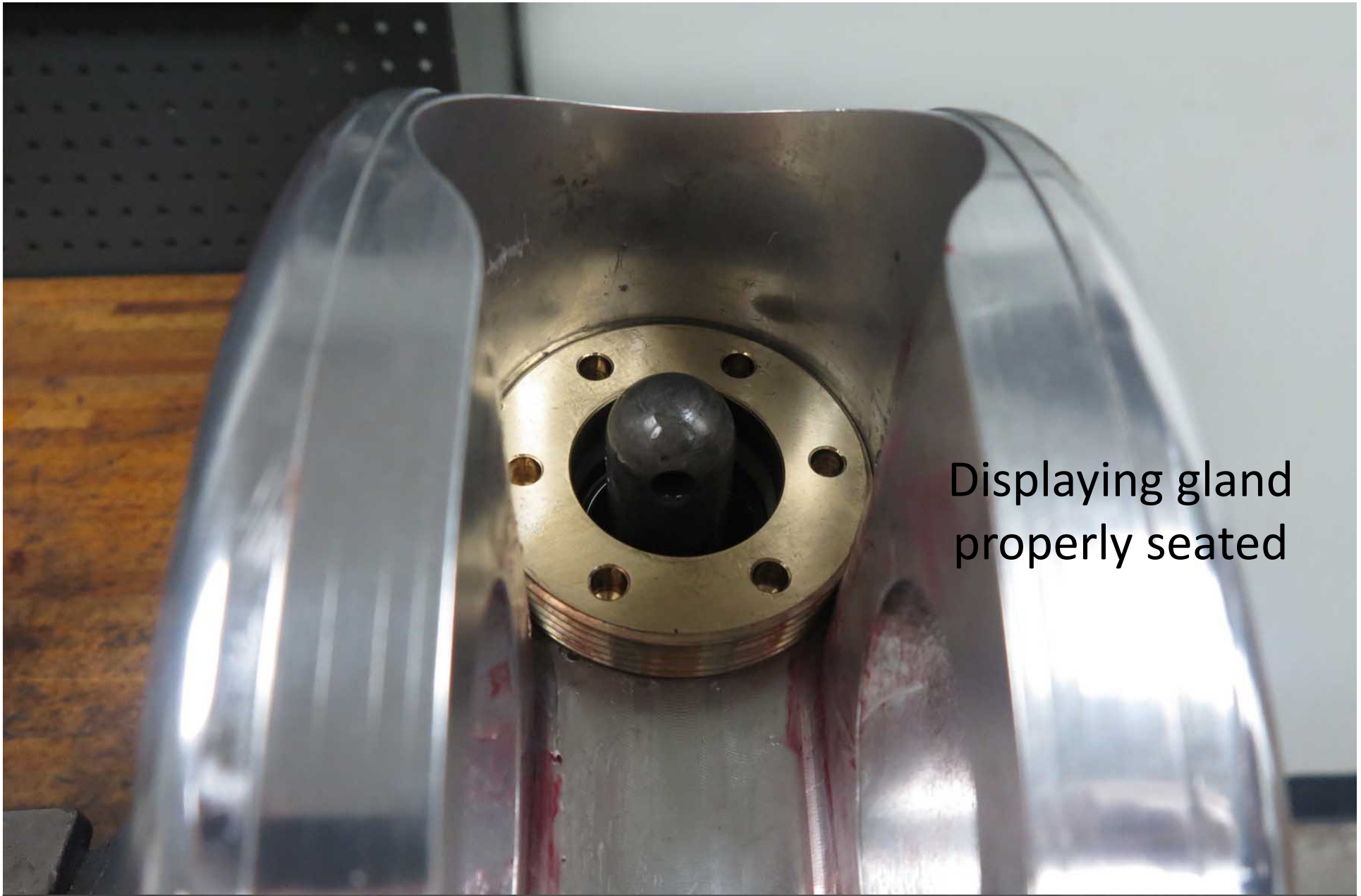
TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: [sales@torcup.com](mailto:sales@torcup.com) W: [www.torcup.com](http://www.torcup.com)  
P: +1 610-250-5800 F: +1 610-250-2700

Reinstall gland



**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Displaying gland properly seated

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Place gland  
wrench on  
top of gland

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: [sales@torcup.com](mailto:sales@torcup.com) W: [www.torcup.com](http://www.torcup.com)  
P: +1 610-250-5800 F: +1 610-250-2700

Tighten gland  
wrench with  
breaker bar and  
7/8" socket



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Using center punch, hit down with hammer on  
line between brass and aluminum



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: [sales@torcup.com](mailto:sales@torcup.com) W: [www.torcup.com](http://www.torcup.com)  
P: +1 610-250-5800 F: +1 610-250-2700

Lightly grease inside of drive plate



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Correct Way



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Wrong way



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Assemble segment and  
ratchet and place  
into drive plate



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Install 1<sup>st</sup> spring into segment

Be aware of tension on  
segment to prohibit  
spring ejection

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Install 2nd spring into segment

Be aware of tension on  
segment to prohibit  
spring ejection

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Grease where piston  
meets drive plate

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Align piston rod  
using allen wrench

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Install drive plate into front end of housing



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700




Grease 1<sup>st</sup> sleeve

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



A close-up photograph showing a person's hand placing a cylindrical metal sleeve into a larger metal housing. The sleeve has a rough, textured surface, possibly from a previous use or manufacturing process. The housing is polished and has a white arrow pointing to the right. The background is a wooden workbench.

Install 1<sup>st</sup> sleeve  
into housing

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Grease 2<sup>nd</sup> sleeve

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

A close-up photograph showing a person's hand inserting a cylindrical metal sleeve into the top opening of a polished aluminum hydraulic torque wrench housing. The housing is resting on a wooden workbench. The sleeve has a slightly rough, machined appearance. The background is a dark, perforated metal surface.

Install sleeve into housing

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: [sales@torcup.com](mailto:sales@torcup.com) W: [www.torcup.com](http://www.torcup.com)  
P: +1 610-250-5800 F: +1 610-250-2700

Align holes in drive  
plate and piston  
rod 3/8" punch



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Install roll pin



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Hit down on roll  
pin with 3/8"  
punch and  
hammer



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Roll pin shown not completely in position



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

Roll pin engaged in correct position. Flush on both sides of drive plate



**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700






Install 1<sup>st</sup> retaining ring

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Flip tool  
over and  
install 2<sup>nd</sup>  
retaining ring

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Line up slines

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Install square drive  
and make sure  
splines are lined up

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Install square  
drive and  
threaded retainer

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Install 1<sup>st</sup> housing  
threaded plug with  
5/16" allen wrench

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Install 2nd housing  
threaded plug with  
5/16" allen wrench

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700




Install 1<sup>st</sup> shroud screw  
with 5/32" allen wrench

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700





Install 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> shroud screws with a 5/32" allen wrench

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Place tool in vise

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Remove old teflon  
tape and wrap  
1<sup>st</sup> and 2<sup>nd</sup> swivels  
with new tape

**TU** Square Drive  
Hydraulic Torque Wrenches


TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: [sales@torcup.com](mailto:sales@torcup.com) W: [www.torcup.com](http://www.torcup.com)  
P: +1 610-250-5800 F: +1 610-250-2700



Install 1<sup>st</sup> swivel and coupler  
with ¼" allen wrench  
into advance port

**TU** Square Drive  
Hydraulic Torque Wrenches

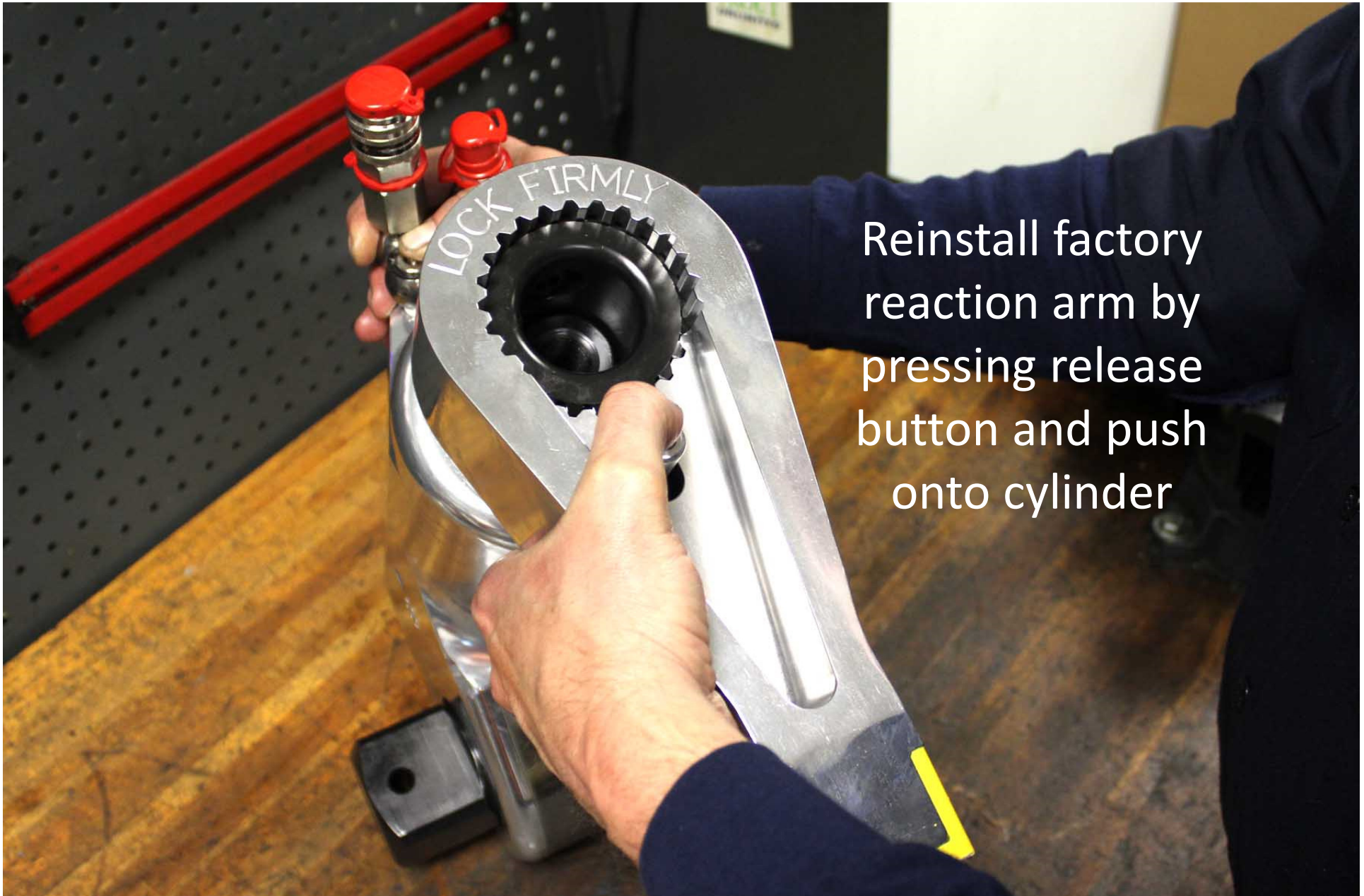
TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Install 2<sup>nd</sup> swivel  
and coupler with  
1/4" allen wrench  
into retract port

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700



Reinstall factory  
reaction arm by  
pressing release  
button and push  
onto cylinder

**TU** Square Drive  
Hydraulic Torque Wrenches

TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E:sales@torcup.com W:www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

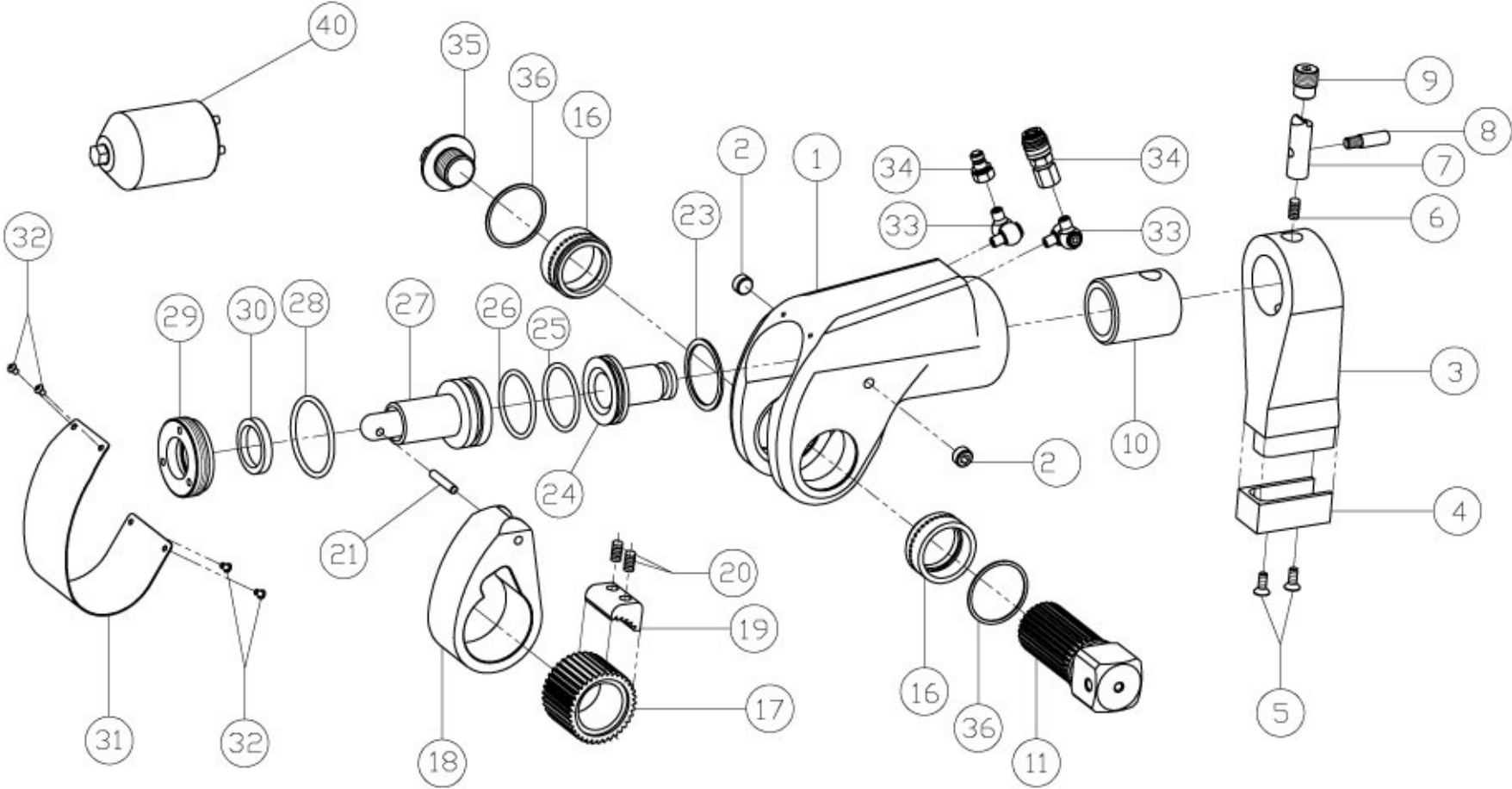
Maintenance and  
assembly complete



**TU** Square Drive  
Hydraulic Torque Wrenches

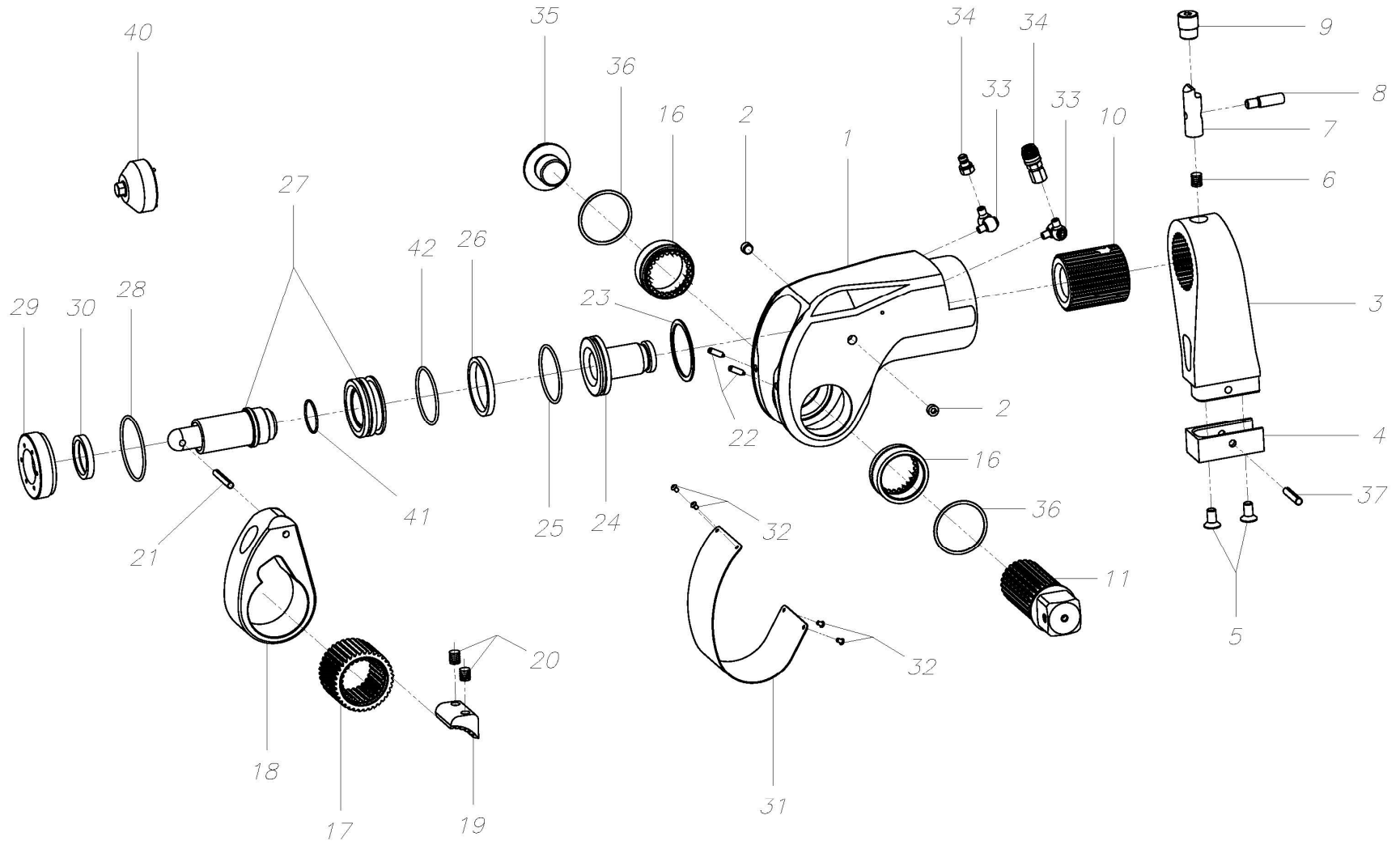
TorcUP Industrial Bolting Tools  
1025 Conroy Place Easton, PA 18040 USA  
E: sales@torcup.com W: www.torcup.com  
P: +1 610-250-5800 F: +1 610-250-2700

TU-27 Series Wrench





# TU-60 Series Wrench



## TU-27 and TU-60 Part Numbers

	Part	TU-27	TU-60
1	Housing	TU-27-01	TU-60-01
2	Housing Threaded Plug	TU-27-39	TU-60-39
3	Reaction Arm	TU-27-39	TU-60-03-1
4	Reaction Arm Cover	TU-27-03-7	TU-60-03-7
5	Cover Screws	TU-27-03-8	TU-60-03-8
6	Reaction Arm Spring	TU-27-03-6	TU-60-03-6
7	Locking Pin	TU-27-03-3	TU-60-03-3
8	Retract Button	TU-27-03-4	TU-60-03-4
9	Reaction Arm Screw	TU-27-03-5	TU-60-03-5
10	Spline sleeve	TU-27-03-2	TU-60-03-2
11	Square Drive	TU-27-11-1	TU-60-11-1
12	Ball Plunger	N/A	N/A
14	Locking Pin	N/A	N/A
16	Sleeve	TU-27-13	TU-60-13
17	Ratchet	TU-27-05	TU-60-05
18	Drive Plate	TU-27-09	TU-60-09
19	Drive Segment	TU-27-07	TU-60-07
20	Drive Segment Spring	TU-27-27	TU-60-27
21	Roll Pin	TU-27-19	TU-60-19
22	Flat Spring	N/A	N/A
22	Sleeve Ring	N/A	N/A
22	Ball Plunger	TU-27-29	TU-60-29
23	Smalley Ring	TU-27-43	TU-60-43
24	End Plug	TU-27-15	TU-60-15
25	End Plug Seal	TU-27-37	TU-60-37
26	Piston Seal	TU-27-33	TU-60-33
27	Piston Rod Assembly	TU-27-17	TU-60-17-1
28	Gland Seal	TU-27-35	TU-60-35
29	Cylinder Gland	TU-27-21	TU-60-21
30	Rod Seal	TU-27-31	TU-60-31
31	Shroud	TU-27-23	TU-60-23
32	Shroud Screws	TU-27-25	TU-60-25
33	Swivel (2 req)	STU-4M-4M	STU-4M-4M
34	Coupler Set	HC-S-100	HC-S-100
35	Threaded Retainer	TU-27-11-6	TU-60-11-6
36	Sleeve Retainer Clips	TU-27-41	TU-60-41
37	Cover Roll Pin	N/A	TU-60-03-9
40	Gland Wrench	ATU-27-GW	ATU-60-GW
41	Piston Inner Seal	N/A	TU-60-33
42	Piston Outer Seal	N/A	TU-60-34
~	Reaction Arm Assembly	N/A	N/A
~	Square Drive Assembly	N/A	N/A



You have just completed the  
Maintenance Guide.  
For additional questions please contact:

TorcUP Inc.

1025 Conroy Place

Easton, PA 18040

[sales@torcup.com](mailto:sales@torcup.com)

[www.torcup.com](http://www.torcup.com)

TorcUP Inc. is not responsible for customer modification of tools for applications on which TorcUP Inc was not consulted.  
Refer to the tool manual for safety and regulations.