

Maintenance Guide

Square Drive Hydraulic Torque Wrench

TU Series

TU-20



LP
torque


Maintenance Supplies



1. TU-20 Cylinder 2. Marine moly 3. Light grease 4. Breaker bar with 7/8" socket 5. 1" square socket 6. TU-20 gland wrench 7. Brass drift 8. Flat tip screw driver 9. Center punch 10. 5/32" allen wrench 11. 3/8" allen wrench 12. 1/4" allen wrench 13. Ratchet 14. Hammer (32oz) 15. Dead blow hammer 16. Hammer (18oz.)

TU Square Drive
Hydraulic Torque Wrenches

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TU-20 Tool

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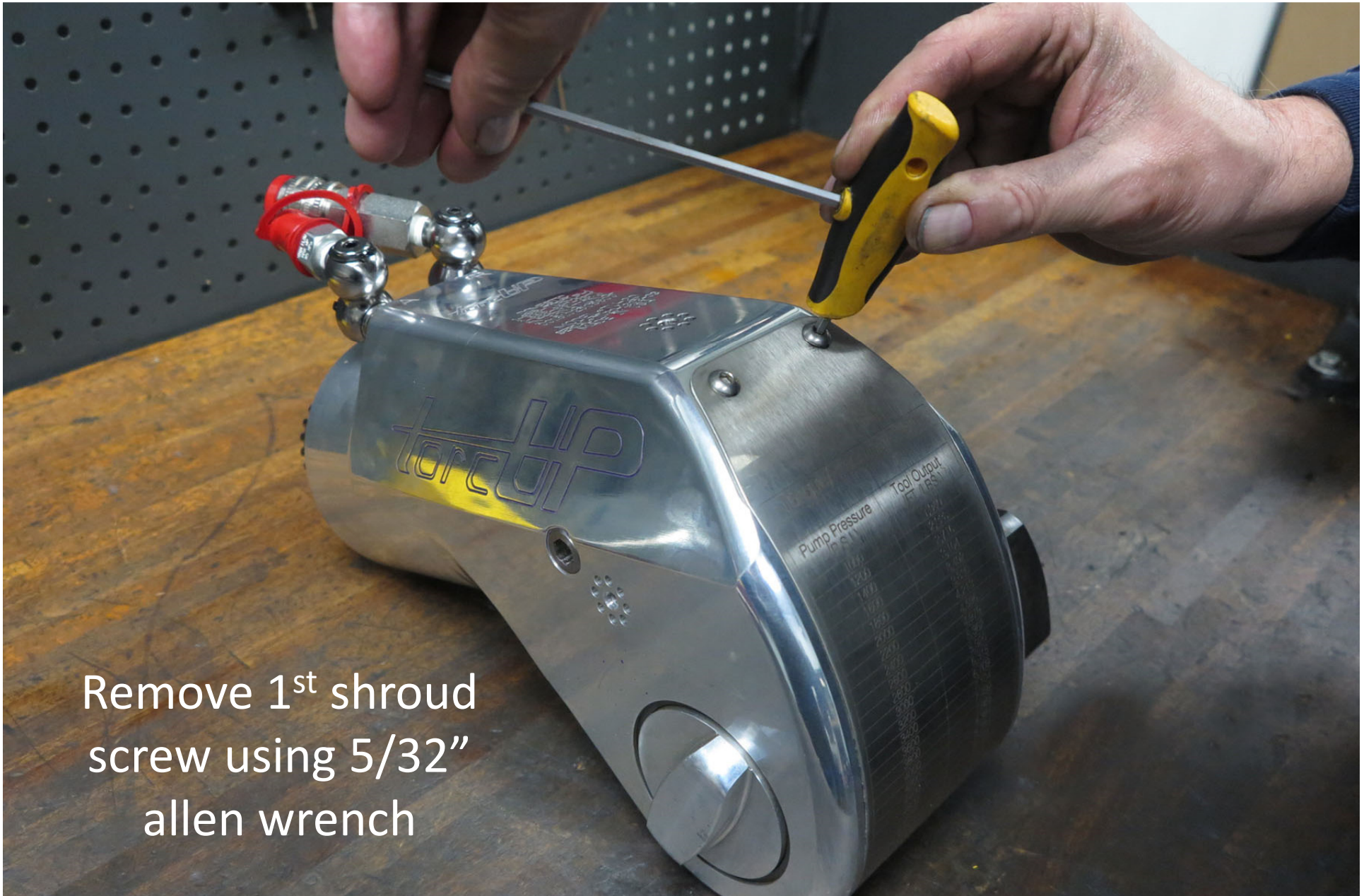
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Remove reaction
arm by depressing
gate lever

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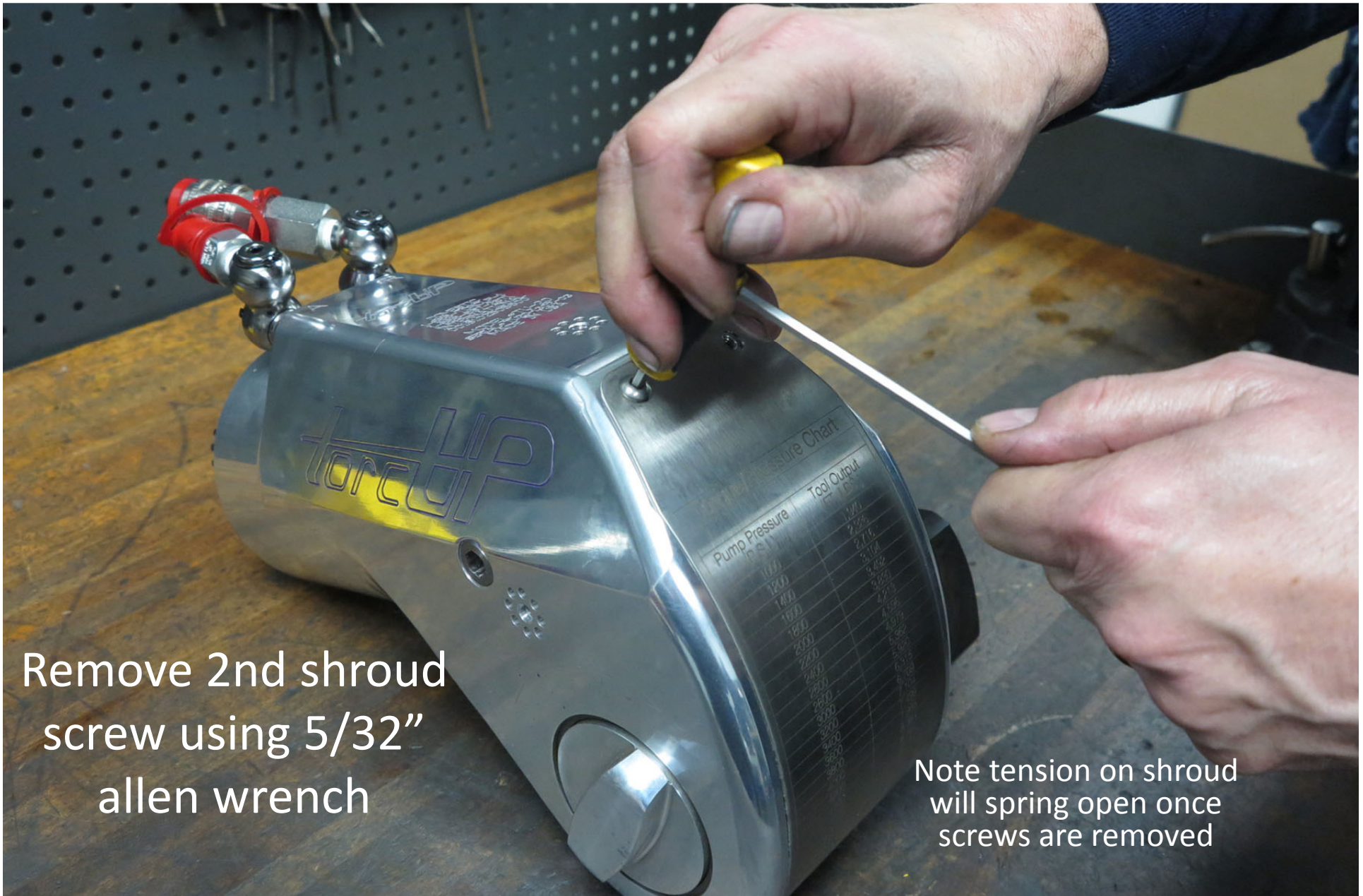
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Remove 1st shroud
screw using 5/32"
allen wrench

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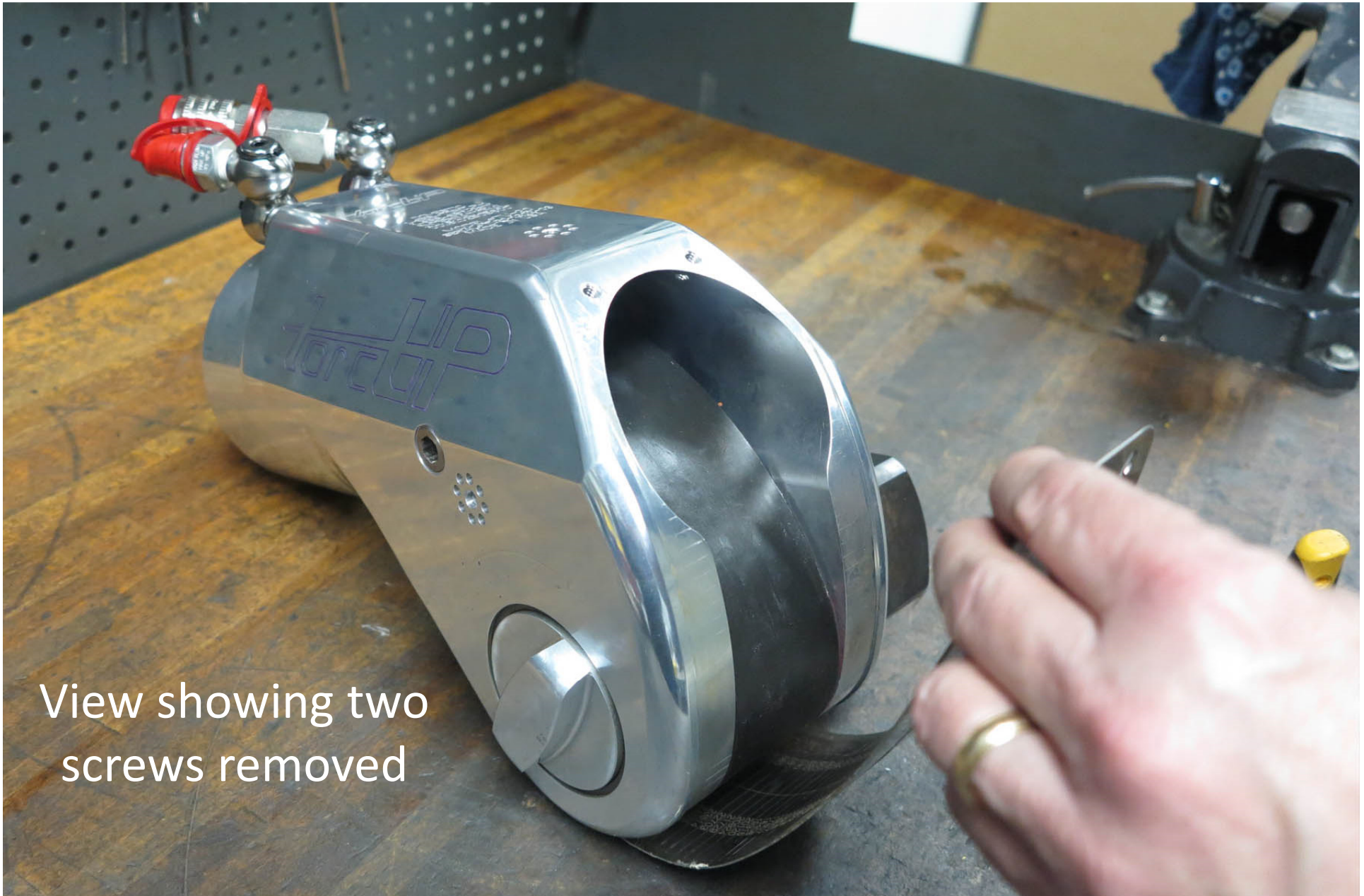


Remove 2nd shroud
screw using 5/32"
allen wrench

Note tension on shroud
will spring open once
screws are removed

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View showing two screws removed

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Remove 3rd shroud
screw using 5/32"
allen wrench



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Remove 4th shroud
screw using 5/32"
allen wrench



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Remove housing
threaded
plug using 3/8"
allen wrench

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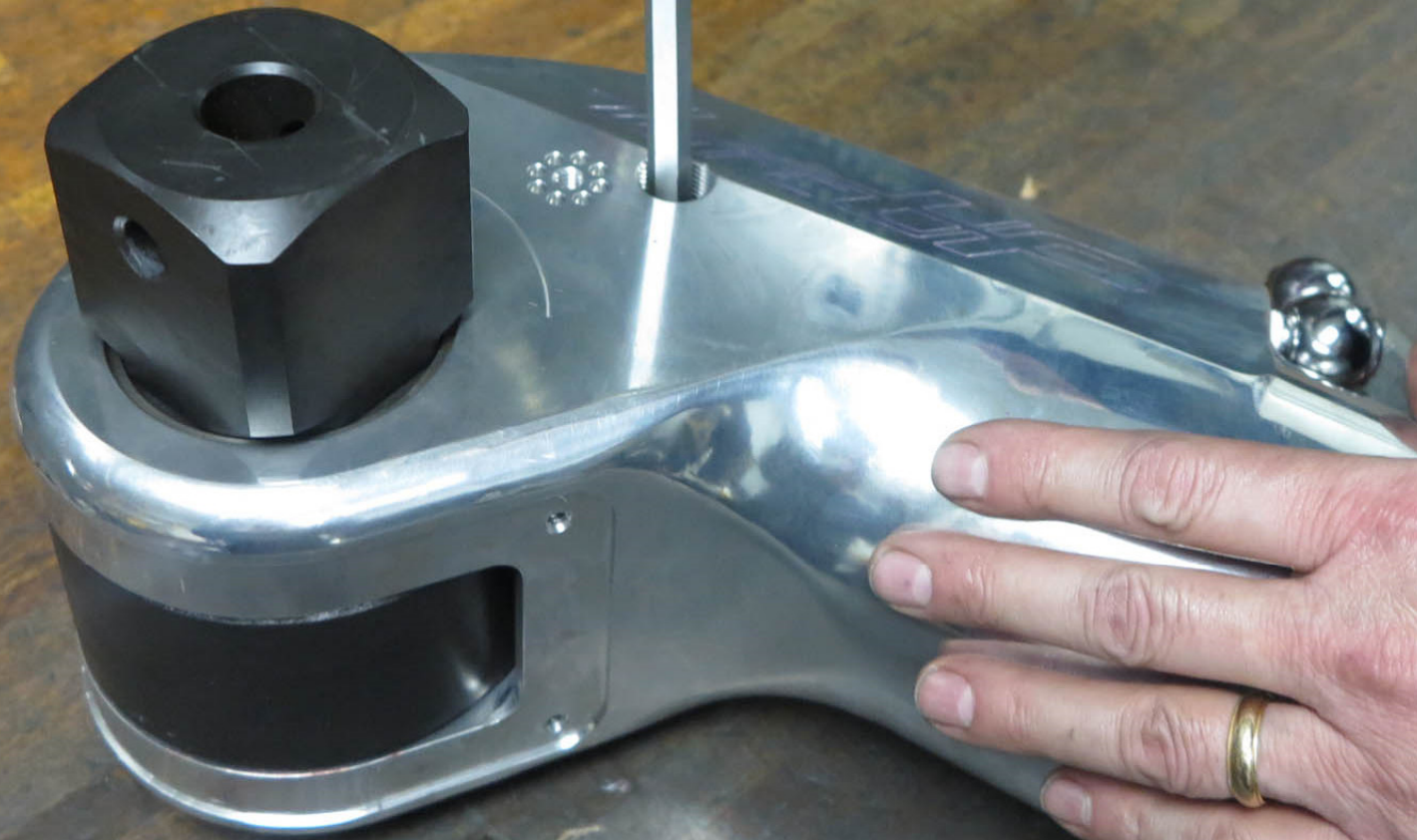
Flip tool over and
remove housing
threaded plug on
opposite side



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Remove 1st retract
screw using 3/8"
allen wrench



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A close-up photograph showing a person's hand holding a bolt over a hydraulic torque wrench. The wrench is silver and has a handle with a curved arrow indicating the direction of rotation. The person is wearing a dark blue long-sleeved shirt. The background is a wooden workbench with a perforated metal plate. The text "View of 1st retract screw after removal" is overlaid on the left side of the image.

View of 1st retract
screw after removal

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A close-up photograph of a person's hands working on a metal component. The person is using a yellow-handled allen wrench with a silver shaft to retract a screw. The metal component is silver and has a hexagonal shape. The background is a wooden workbench with a black perforated metal plate on the left. The text "Remove 2nd retract screw using 3/8 inch allen wrench" is overlaid on the image.

Remove 2nd
retract screw using
3/8" allen wrench

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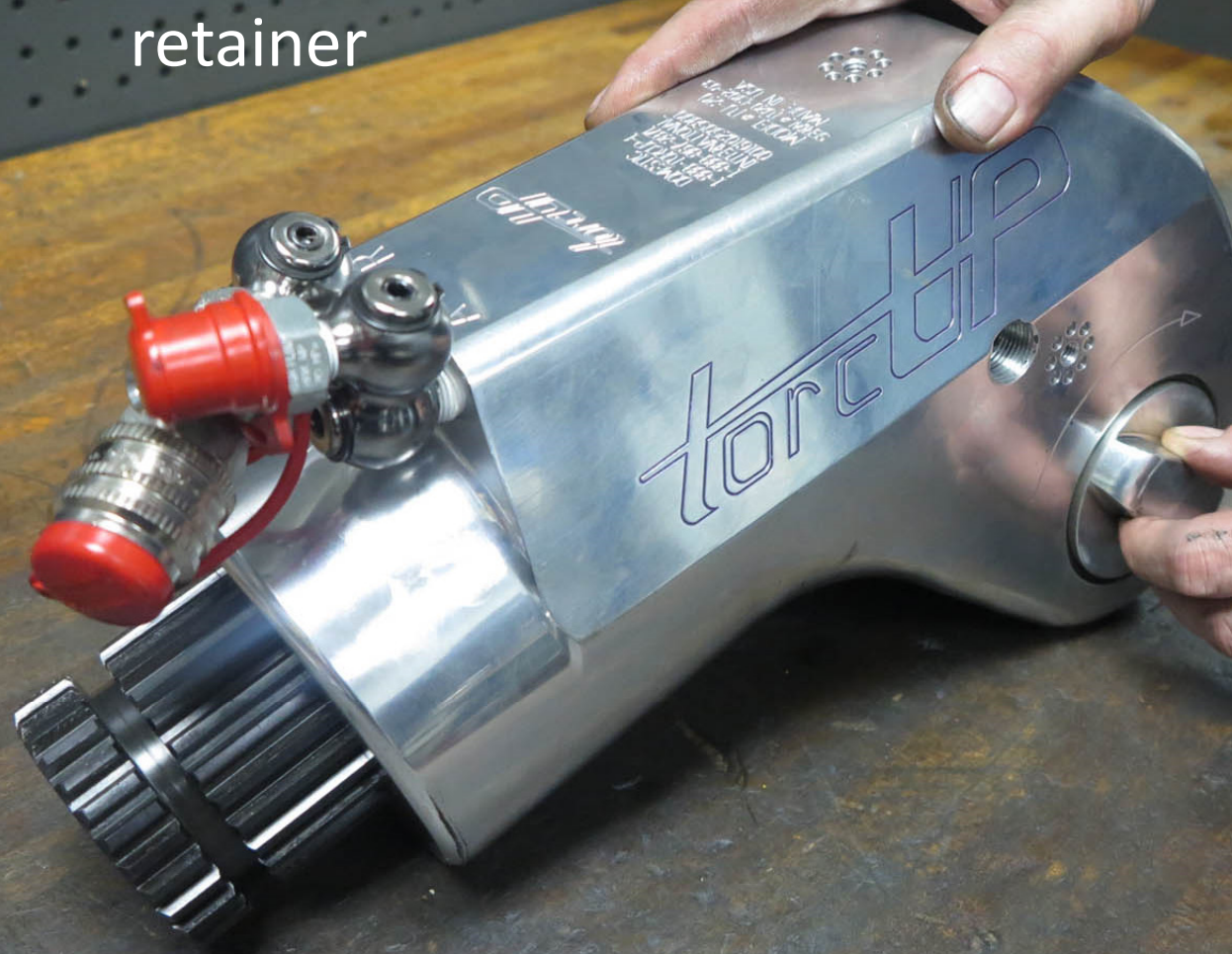


View of 2nd
retract screw
after removal

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Remove threaded
retainer



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View showing threaded
retainer after removal



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Remove
square drive



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Remove 1st
retaining ring
using small flat
tip screw driver

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Remove 2nd
retaining ring
using small
flat tip screw
driver

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View of
retaining
ring after
removal

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Remove
1st sleeve

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Remove 2nd sleeve

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Remove drive
plate,
ratchet and drive
segment

Be aware of tension on segment
spring to prohibit spring ejection

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Remove ratchet
and segment from
drive plate

Be aware of tension on segment
spring to prohibit spring ejection

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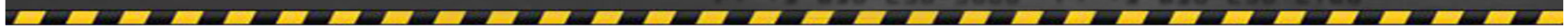
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View showing ratchet,
segment and springs

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Place housing in
vise with
aluminum jaws

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Remove 1st
swivel
and coupler with
1/4" allen wrench

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Remove 2nd
swivel and coupler
with ¼" allen wrench

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Flip tool over
in vise

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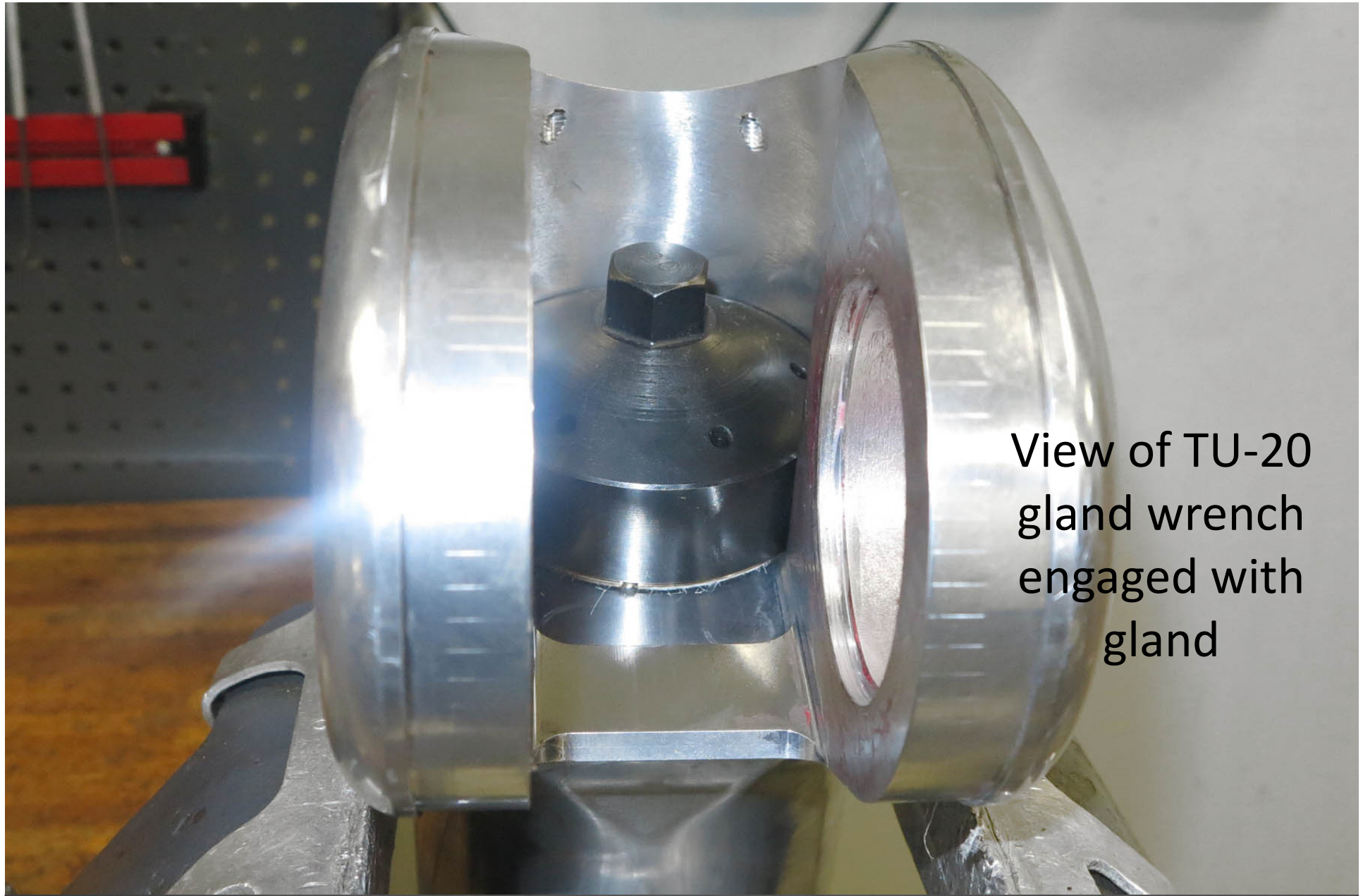
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View of TU-20
gland wrench



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View of TU-20
gland wrench
engaged with
gland

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Place 7/8" socket with
breaker bar on
top of gland wrench.
Loosen and
remove gland

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View of gland with rod seal
after removal



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Flip over tool in
vise. Place a
rag in vise
to catch parts



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Break end plug
loose from splined
sleeve using 1"
square end socket
and breaker bar.
(Turn clock wise as
to tighten)



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As you turn end plug it
will cause splined
sleeve to remove itself
from tool.
View of splined sleeve
after removal



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A close-up photograph showing a person's hands in a blue long-sleeved shirt using a hammer and a brass drift to adjust a plug on a hydraulic torque wrench. The wrench is silver and has a square drive. The background shows a white wall with electrical outlets and a wooden workbench.

Hit down on end
plug with brass
drift and hammer

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Piston rod and end
plug will come out of
the housing at the
same time



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View of piston rod and end
plug after removal



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Clean and inspect all parts



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Begin assembly of
tool by greasing end
plug and seal

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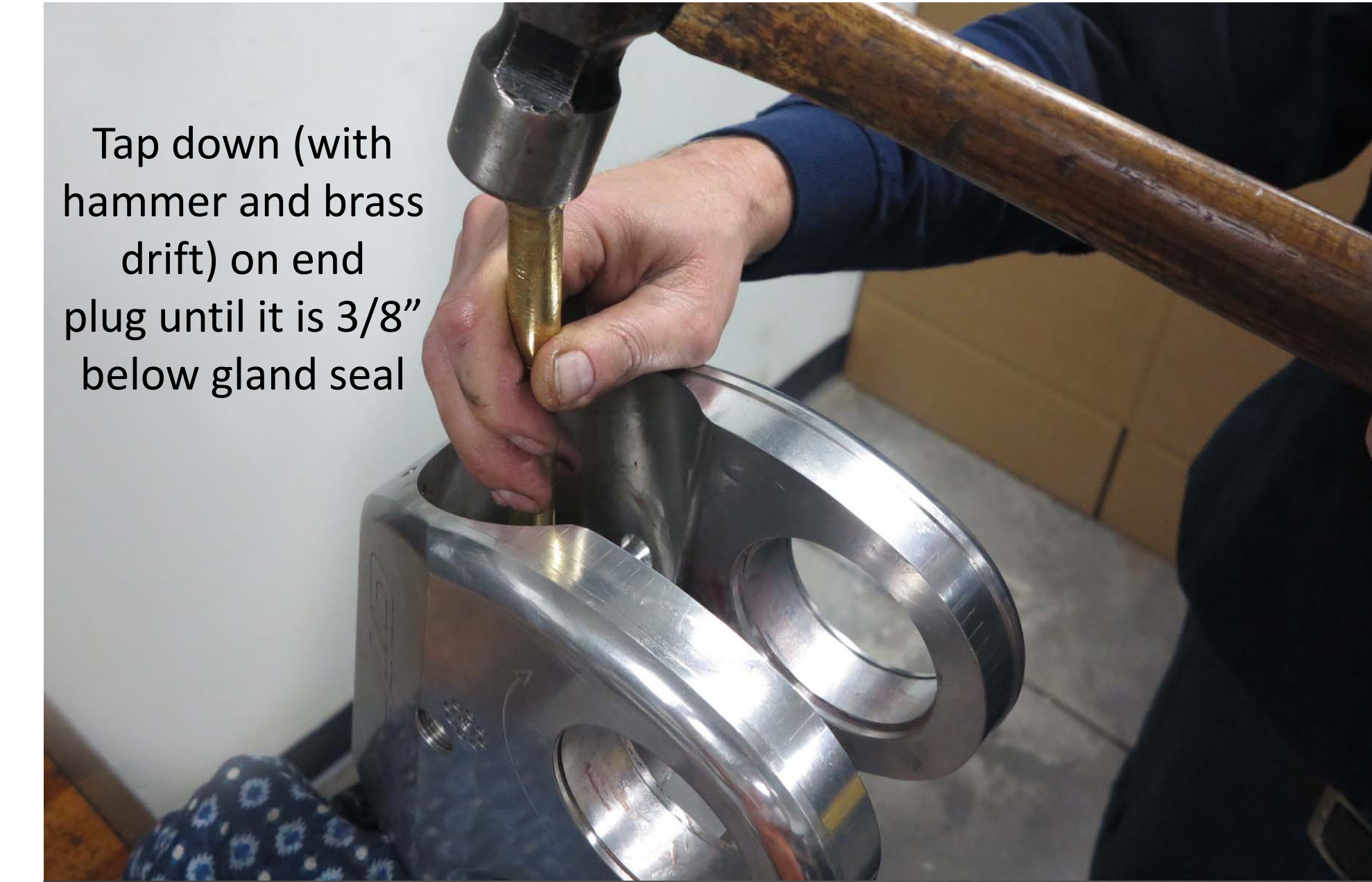
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Place end plug into
housing and press
down until end
plug seats itself

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A close-up photograph showing a person's hands using a hammer and a brass drift to tap down an end plug on a metal component. The person is wearing a blue long-sleeved shirt. The metal component is a large, cylindrical, polished metal part with a flange. The brass drift is a long, thin metal rod with a hexagonal end. The hammer has a wooden handle and a metal head. The background is a plain, light-colored wall.

Tap down (with
hammer and brass
drift) on end
plug until it is 3/8"
below gland seal

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Grease piston rod and seal

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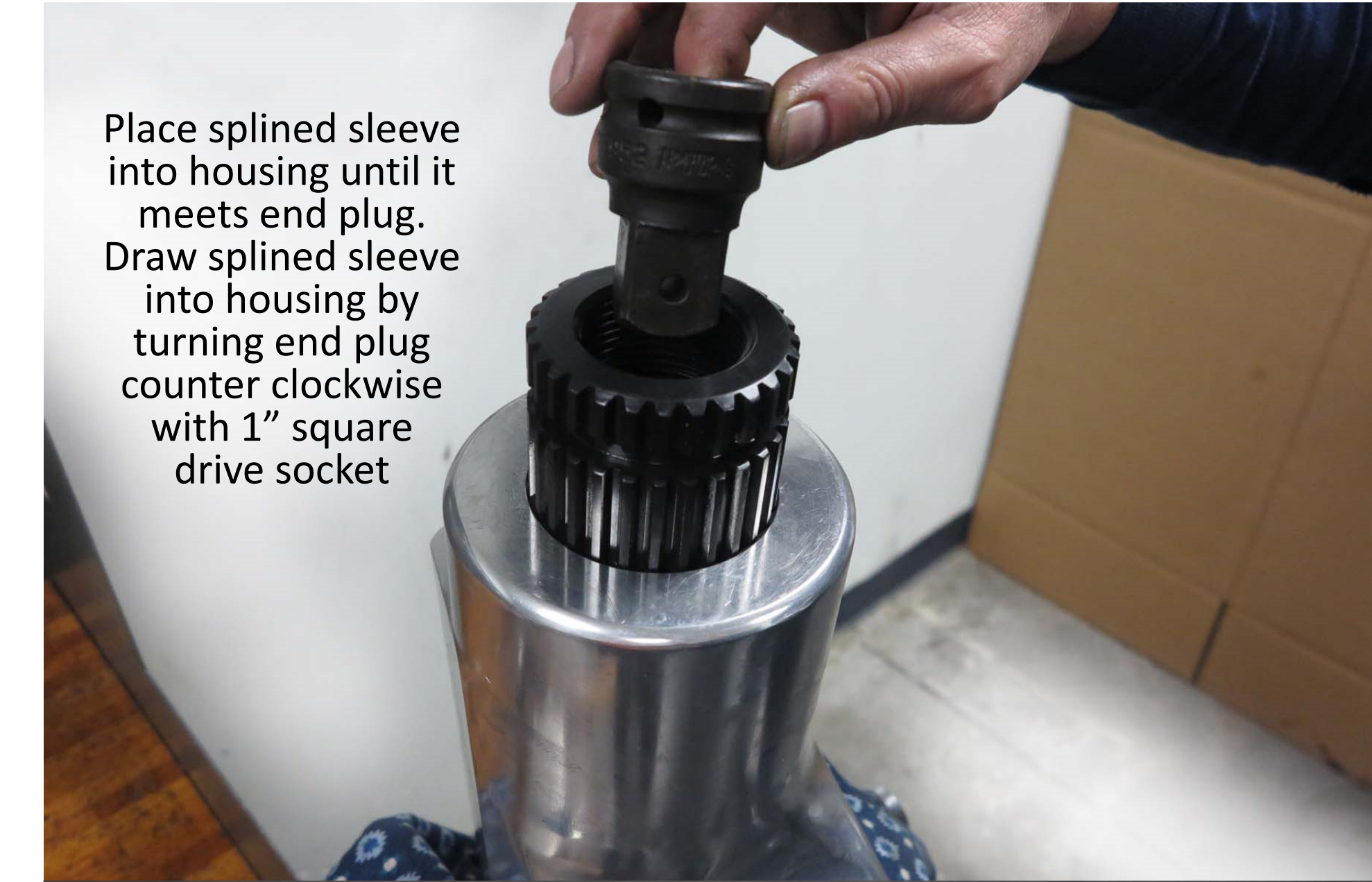
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Place piston rod into position. Hit down on piston rod with dead blow hammer, driving piston rod and end plug to the bottom of housing bore

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Place splined sleeve
into housing until it
meets end plug.
Draw splined sleeve
into housing by
turning end plug
counter clockwise
with 1" square
drive socket

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Flip tool over in
vise and place
gland
with rod seal
into position

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Place TU-20
gland wrench
on top
of gland



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Tighten gland into position by placing 7/8" socket with breaker bar, on top of gland wrench



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Gland in
position
after
tightening

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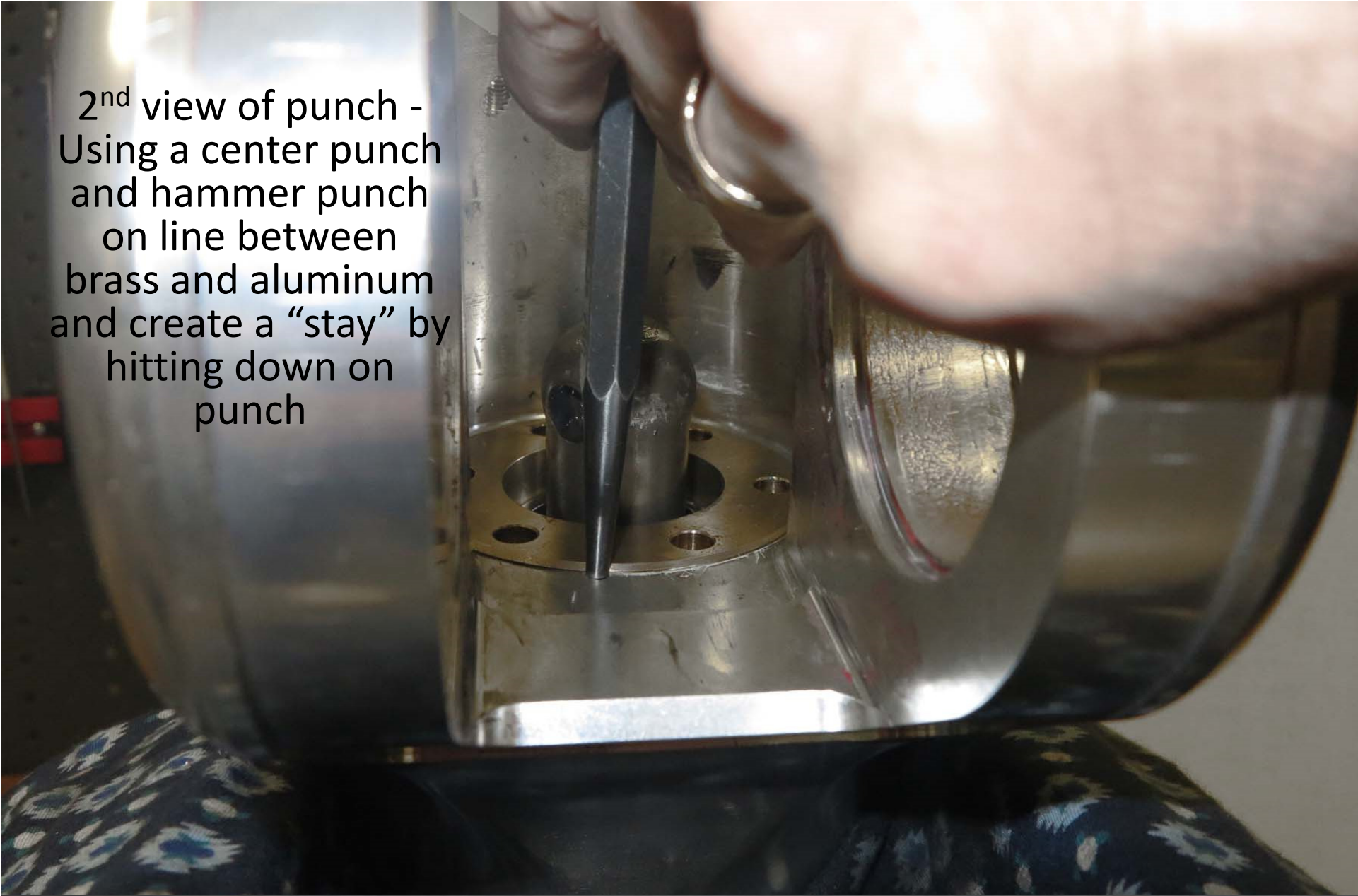
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Using a center punch and hammer, punch on line between brass and aluminum and create a “stay” by hitting down on punch

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2nd view of punch -
Using a center punch
and hammer punch
on line between
brass and aluminum
and create a “stay” by
hitting down on
punch

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Correct way



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Wrong way



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Place drive
segment onto ratchet



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With Marine
moly, lightly
grease inside
drive plate

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View of drive segment
engaged with ratchet



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Place ratchet and drive segment into drive plate



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Place 1st spring into segment, depress and slide into drive plate

Be aware of tension on segment spring to prohibit spring ejection

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Place 2nd spring
into segment,
depress and slide
into drive plate

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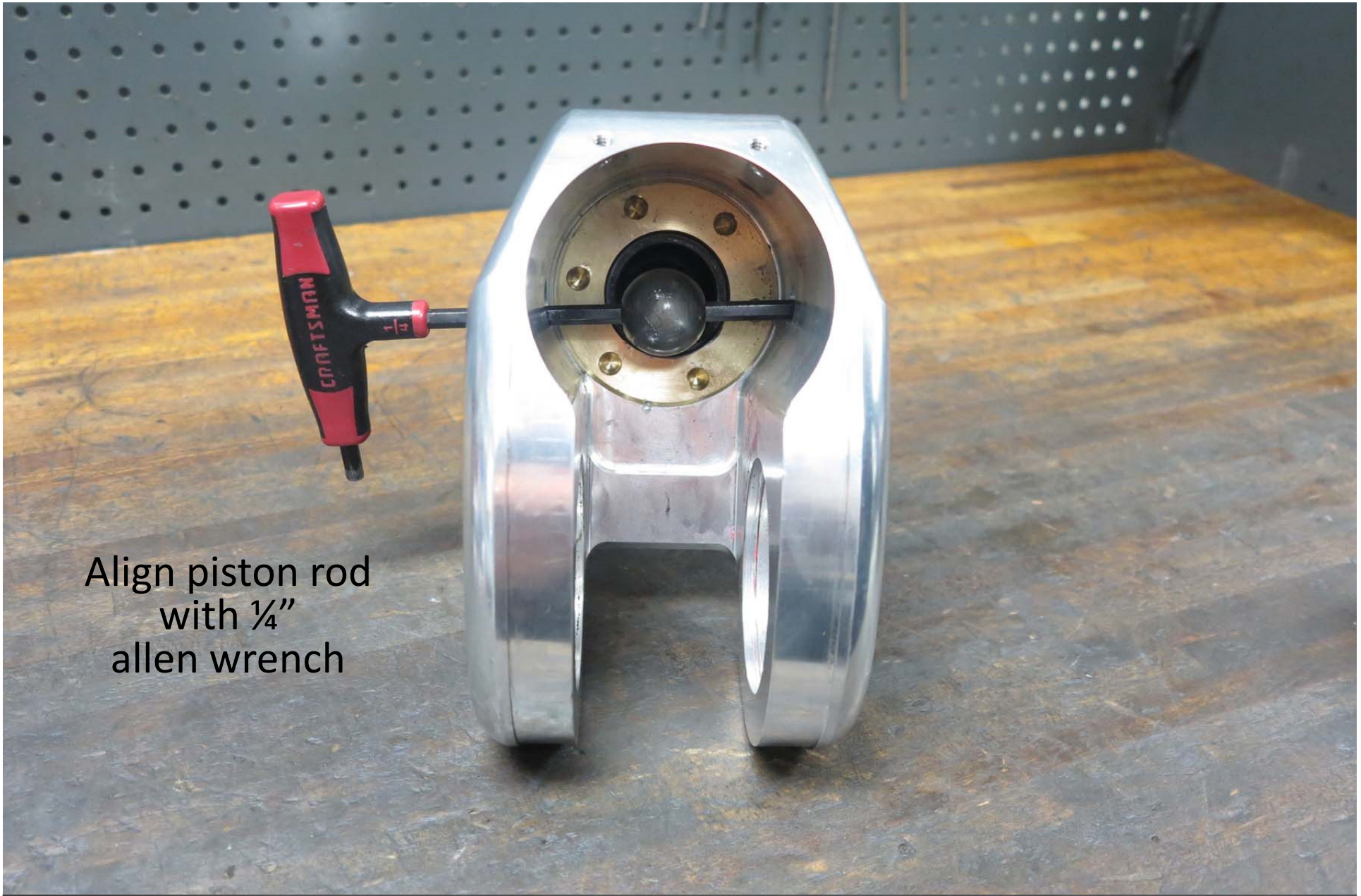
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Place grease into spot where
piston rod meets
the drive plate



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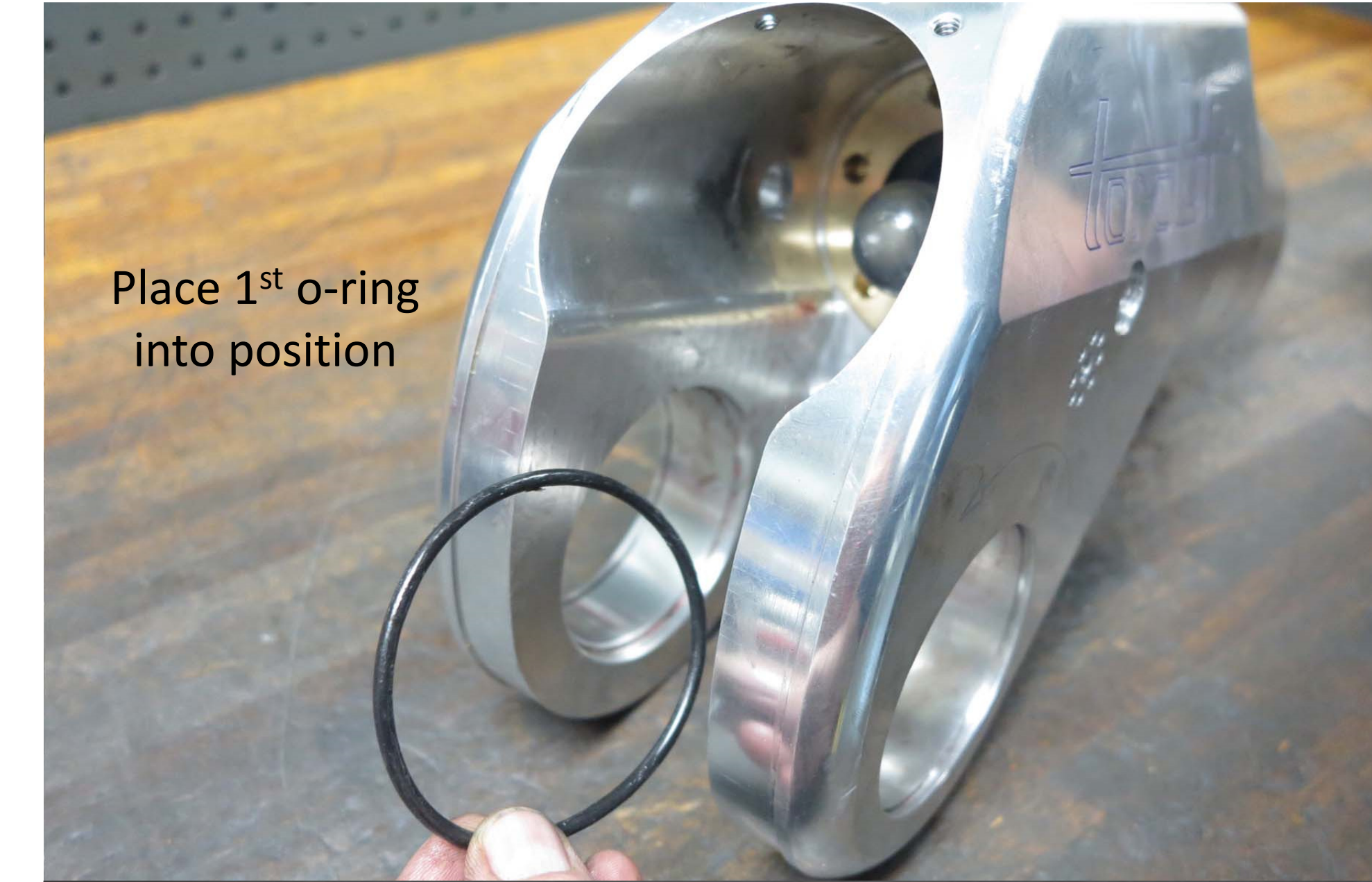
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Align piston rod
with ¼”
allen wrench

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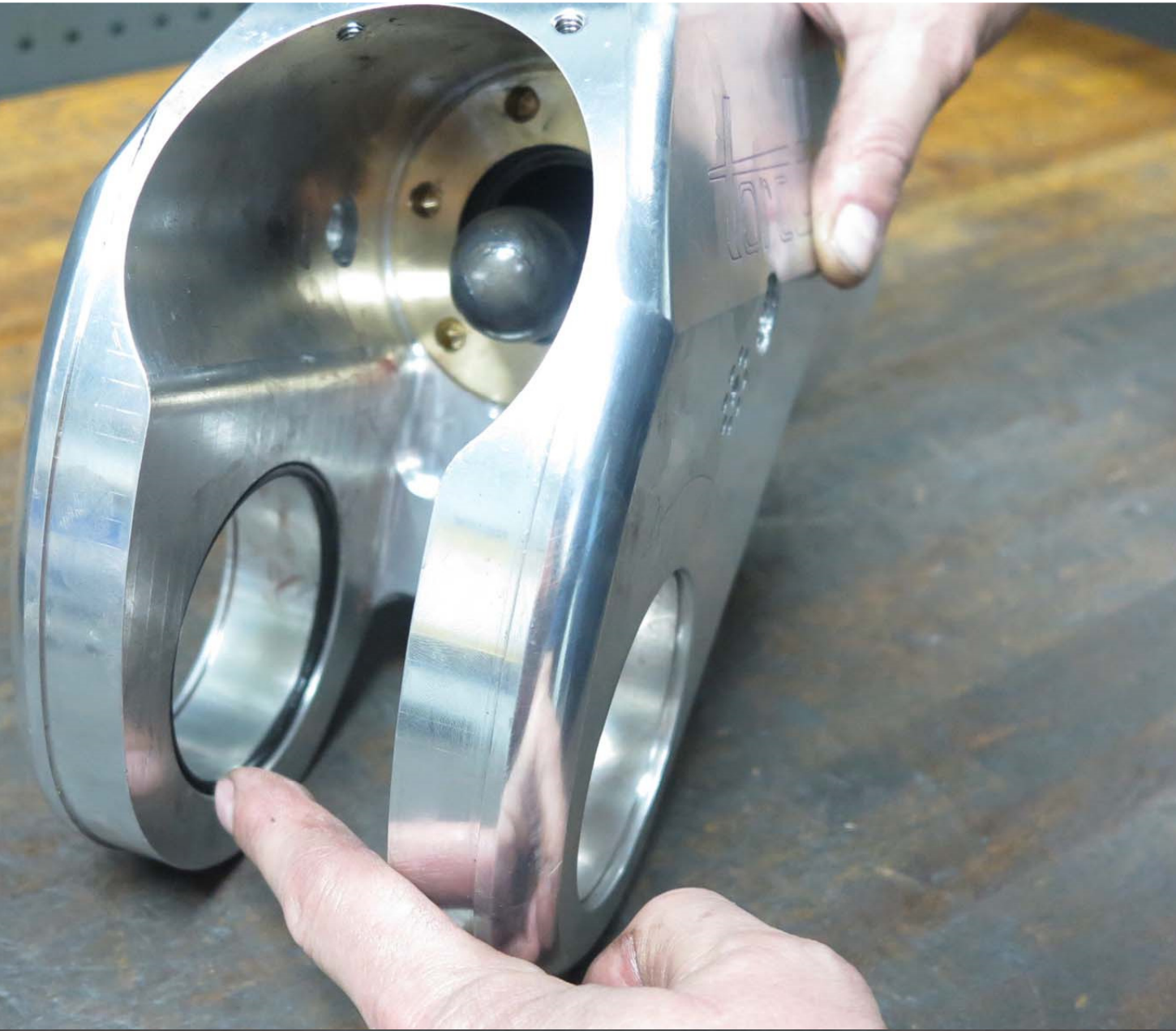


Place 1st o-ring
into position

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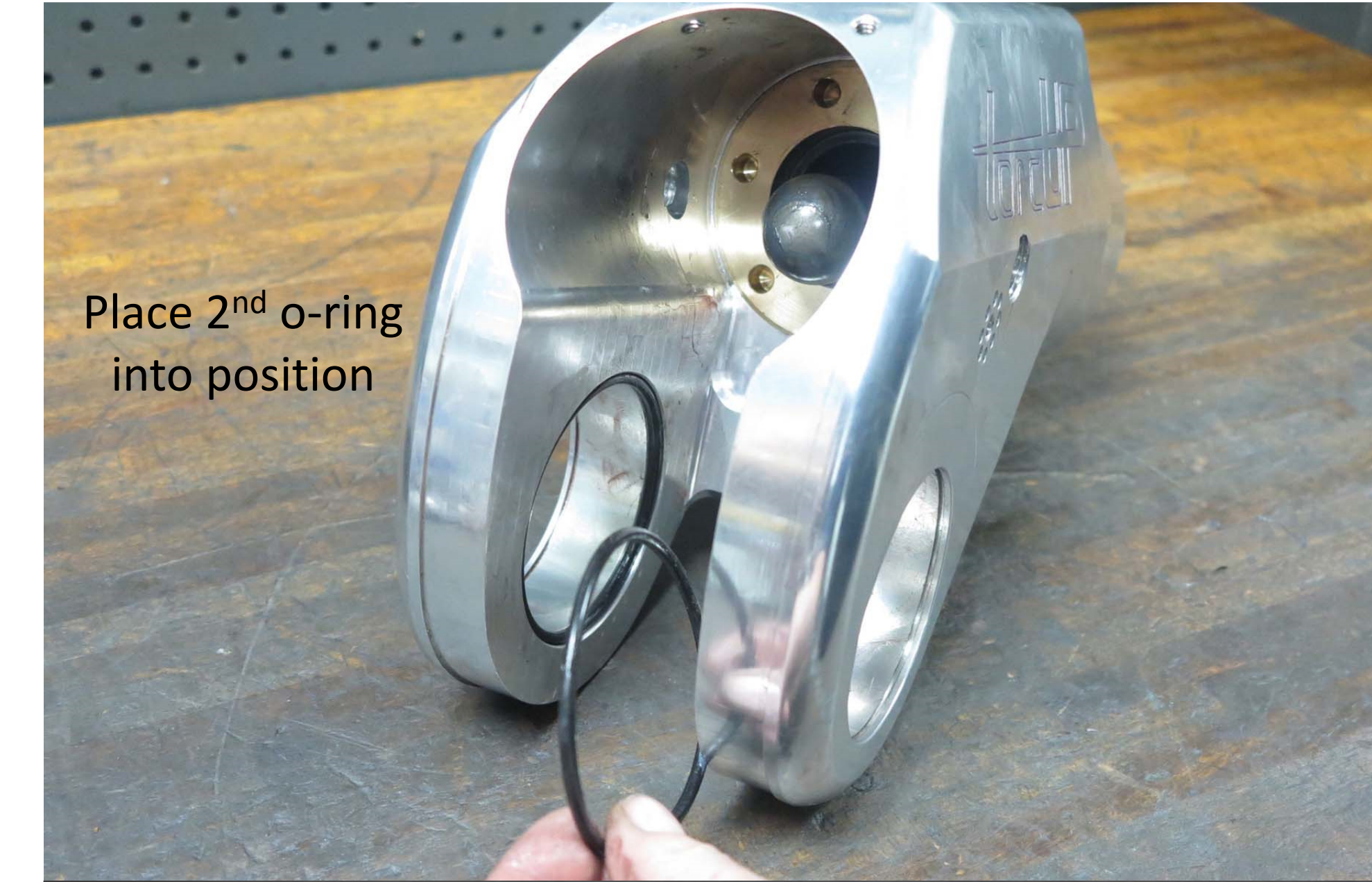
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O-ring
installed



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Place 2nd o-ring
into position

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2nd o-ring
installed

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Place drive plate with ratchet
and segment into position

TU Square Drive
Hydraulic Torque Wrenches

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Drive plate
in position

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Grease ratchet splines
(Marine moly)

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Grease 1st sleeve
(Marine moly)

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A close-up photograph showing a person's hand placing a cylindrical metal sleeve into the top opening of a hydraulic torque wrench housing. The sleeve has a textured, greyish surface. The housing is silver and black. The background is a dark grey perforated metal wall.

Place sleeve
into housing

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Install retaining ring



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A close-up photograph of a hand applying a thick, dark grey grease to the ratchet splines of a hydraulic torque wrench. The wrench is silver and black, and is lying on a dark, worn metal surface. The hand is using a small metal tool to spread the grease. The background is a wooden workbench.

Grease other side
of ratchet splines

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Grease 2nd sleeve
(Marine moly)

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Place sleeve
into housing

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Install 2nd
retaining ring

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Install retract screws
on both sides
(3/8" allen wrench)

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Ensure splines are aligned

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Install square drive
into tool

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Install threaded retainer

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Install 1st housing threaded
plug (3/8" allen wrench)

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Install 2nd housing
threaded plug (3/8" allen wrench)

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Set shroud
into place

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Hydraulic Torque Wrenches

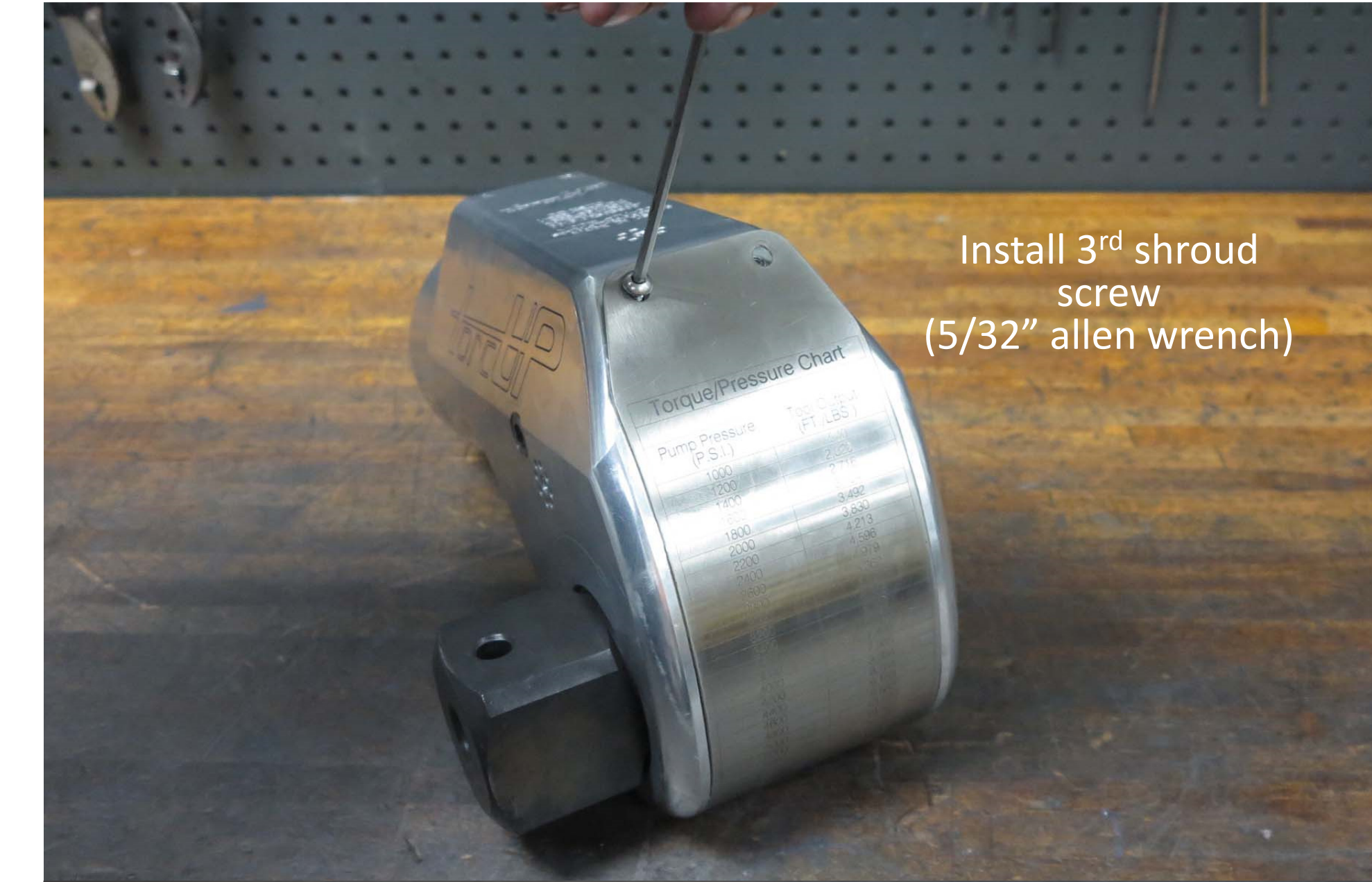
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Install 1st and
2nd shroud screws
(5/32" allen wrench)

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Install 3rd shroud
screw
(5/32" allen wrench)

TorcUP
Torque/Pressure Chart

Pump Pressure (P.S.I.)	Total Output (FT./LBS.)
1000	2,092
1200	2,716
1400	3,340
1600	3,964
1800	4,588
2000	5,212
2200	5,836
2400	6,460
2600	7,084
2800	7,708

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Install 4th shroud
screw (5/32" allen
wrench)

Torque/Pressure Chart

Pump Pressure (P.S.I.)	Tool Output (FT./LBS.)
1000	2,325
1200	2,716
1400	3,104
1600	3,492
1800	3,880
2000	4,213
2200	4,596
2400	5,019
2600	5,442
2800	5,865
3000	6,288
3200	6,711
3400	7,134
3600	7,557
3800	7,980
4000	8,403
4200	8,826
4400	9,249
4600	9,672
4800	10,095
5000	10,518

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Remove old tape
and place new
teflon tape on
both swivels

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Install 1st swivel
and coupler with
1/4" allen wrench

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Install 2nd swivel
and coupler with
1/4" allen wrench

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Install factory reaction
arm onto tool pushing
gate lever

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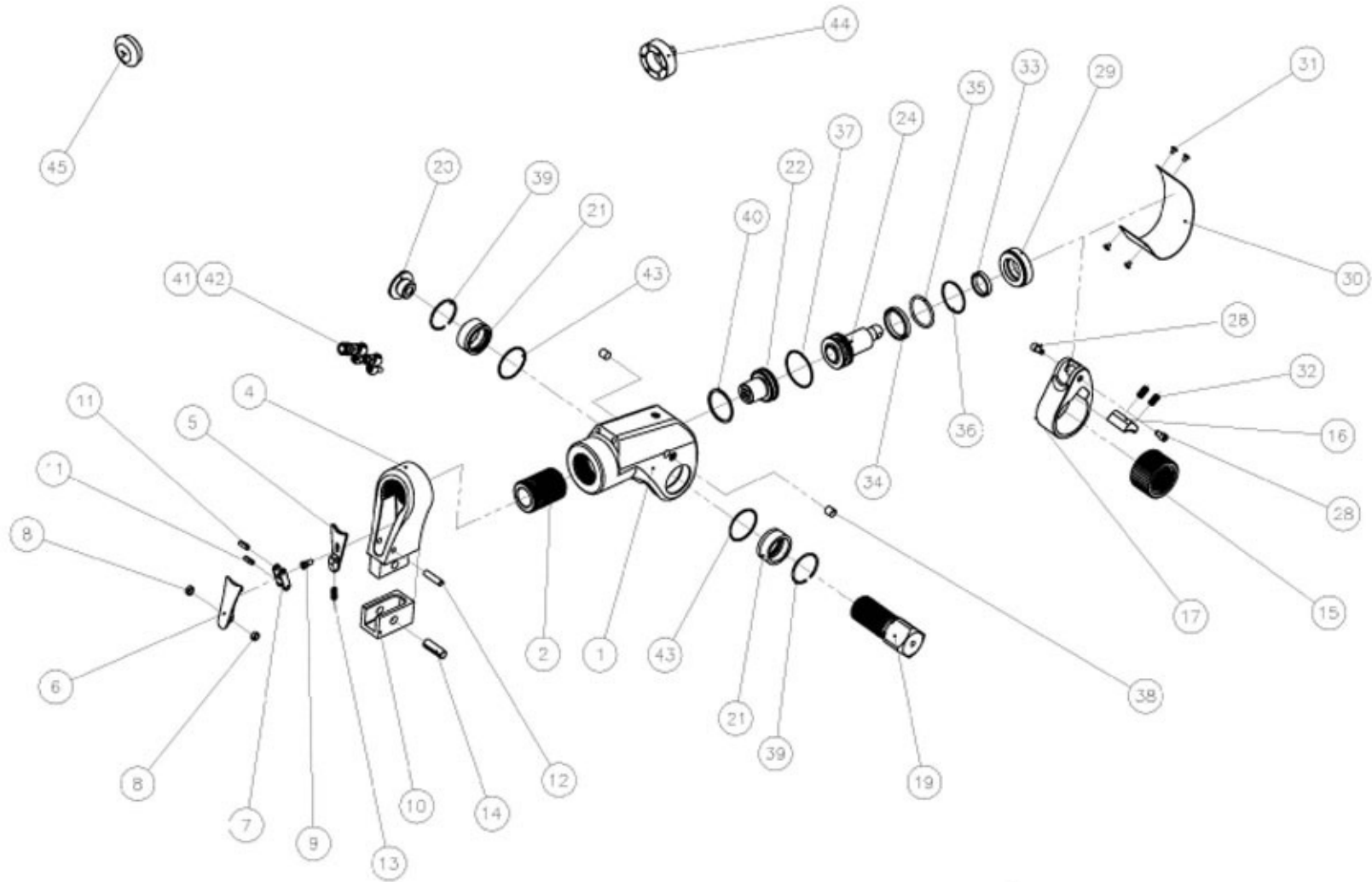
TU-20 tool
assembly complete



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TU-20 Series Wrench



Part Numbers For Ordering TU Series TU-20

	Part	TU-20	QTY.
1	HOUSING	TU-20-01	1
2	SPLINED SLEEVE	TU-20-02	1
4	REACTION ARM	TU-20-03-01	1
5	GATE	TU-20-03-02	1
6	GATE LEVER LINK	TU-20-03-03	1
7	GATE LEVER	TU-20-03-04	1
8	GATE LEVER SPACER	TU-20-03-05	2
9	GATE BOLT	TU-20-03-06	1
10	REACTION ARM BOOT	TU-20-03-07	1
11	GATE LINK PIN	TU-20-03-08	2
12	GATE LEVER PIN	TU-20-03-09	1
13	GATE SPRING	TU-20-03-10	1
14	BOOT PIN	TU-20-03-11	1
15	RATCHET	TU-20-05	1
16	DRIVE SEGMENT	TU-20-07	1
17	DRIVE PLATE	TU-20-09	1
19	SQUARE DRIVE	TU-20-11-1	1
20	THREADED RETAINER	TU-20-11-8	1
21	SQUARE DRIVE SLEEVE	TU-20-13	2
22	END PLUG	TU-20-15	1
24	PISTON	TU-20-17-1	1
25	PISTON ROD	TU-20-17-2	1
26	ROD WIRE RING	TU-20-17-3	1
27	ROD RETAINING RING	TU-20-17-4	1
28	RETRACT SCREW	TU-20-19	2
29	CYLINDER GLAND	TU-20-21	1
30	SHROUD	TU-20-23	1
31	SHROUD SCREWS	TU-20-25	4
32	DRIVE SEGMENT SPRING	TU-20-27	2
33	ROD SEAL	TU-20-31	1
34	PISTON U-CUP SEAL	TU-20-33	1
35	PISTON O-RING SEAL	TU-20-34	1
36	GLAND SEAL	TU-20-35	1
37	END PLUG SEAL	TU-20-37	1
38	HOUSING SIDE PLUG	TU-20-39	2
39	SLEEVE RETAINING RING	TU-20-41	2
40	CYLINDER RING	TU-20-43	1
41	SWIVEL SET	TU-20-45	1
42	COUPLER SET	TU-20-47	1
43	SLEEVE O-RING	TU-20-51	2



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

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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.