

SOLO MOTORSPORTS

2WD Dana 44 hub Installation Guide

(Tacoma Spindle)





**1) Install brass grease plug on back of snout. Tap the grease plug in using a hammer and punch. Be sure that the plug is goes in straight and is flush with the snout. (Figure 0)**





**Figure 1**

**2) Install 6-bolt snout to the fabricated spindle. A 3/8th 12 point socket is required (1/2 drive or 3/8th drive). Use green Loctite 290 on the threads of the bolts. Tighten down bolts in star pattern to 37-40 ft. lbs . (Figure 1)**





**3) Pack the bearings with bearing grease and grease the bearing races. Use a bearing packer tool or by hand to ensure that all bearings are well lubricated. (Figure 2)**





**4) Install the bigger bearing on the back side of the hub. Be sure that the taper of the bearing is facing towards the front of the hub. (Figure 3A, 3B)**

**Big Bearing  
(Rear)**



**Small Bearing  
(Front)**



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**Figure 3B, 6C**





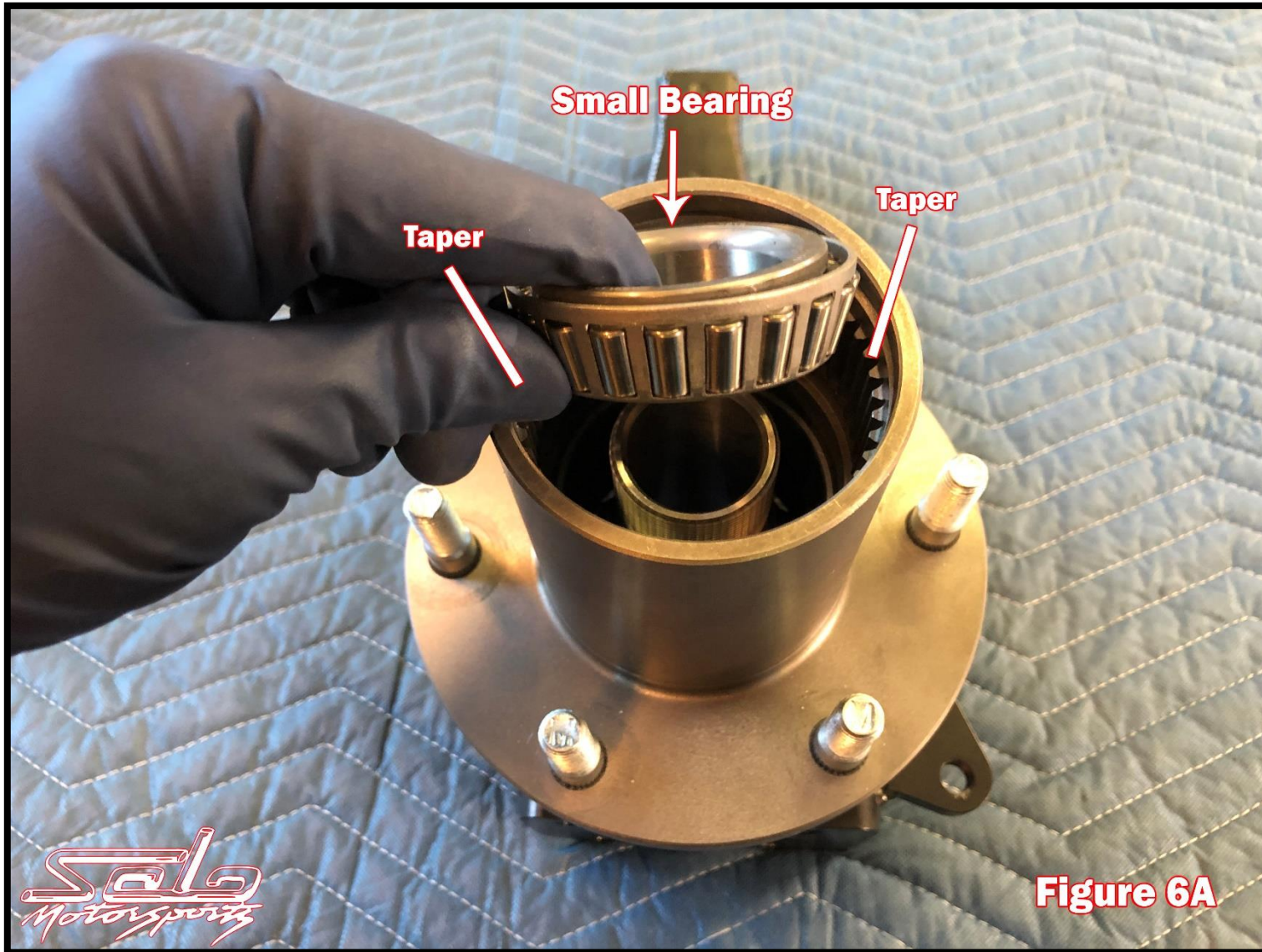
**5) Install the inner grease retaining seal on the back side of the hub. Be sure that seal is seated flush with the hub. (Figure 4)**





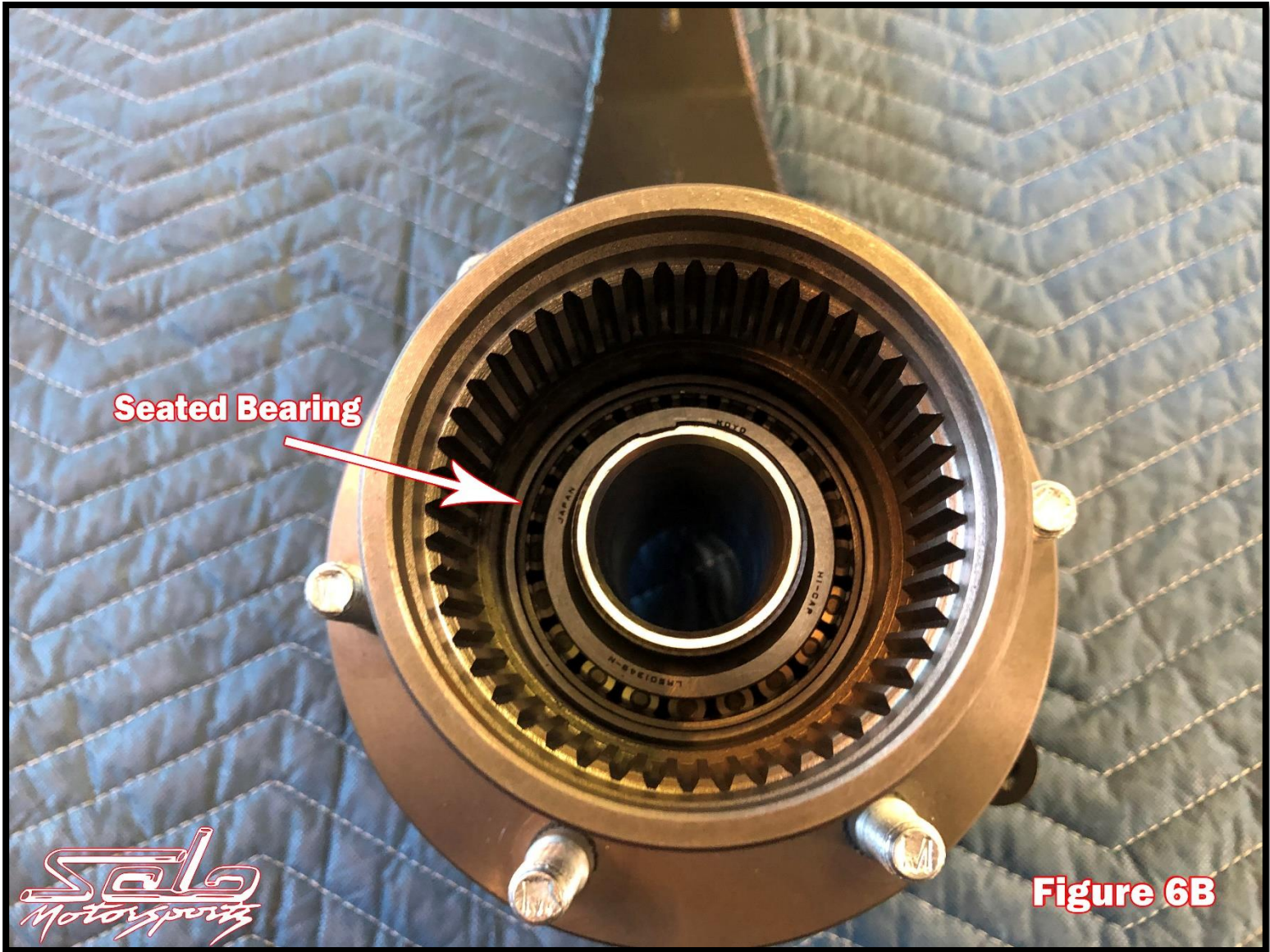
**6) Slide hub over the 6-bolt snout. The wheel studs should be facing you. (Figure 5)**





**7) Install the smaller bearing on the snout. The taper should be facing towards the spindle. (Figure 6A, 6B, 6C)**



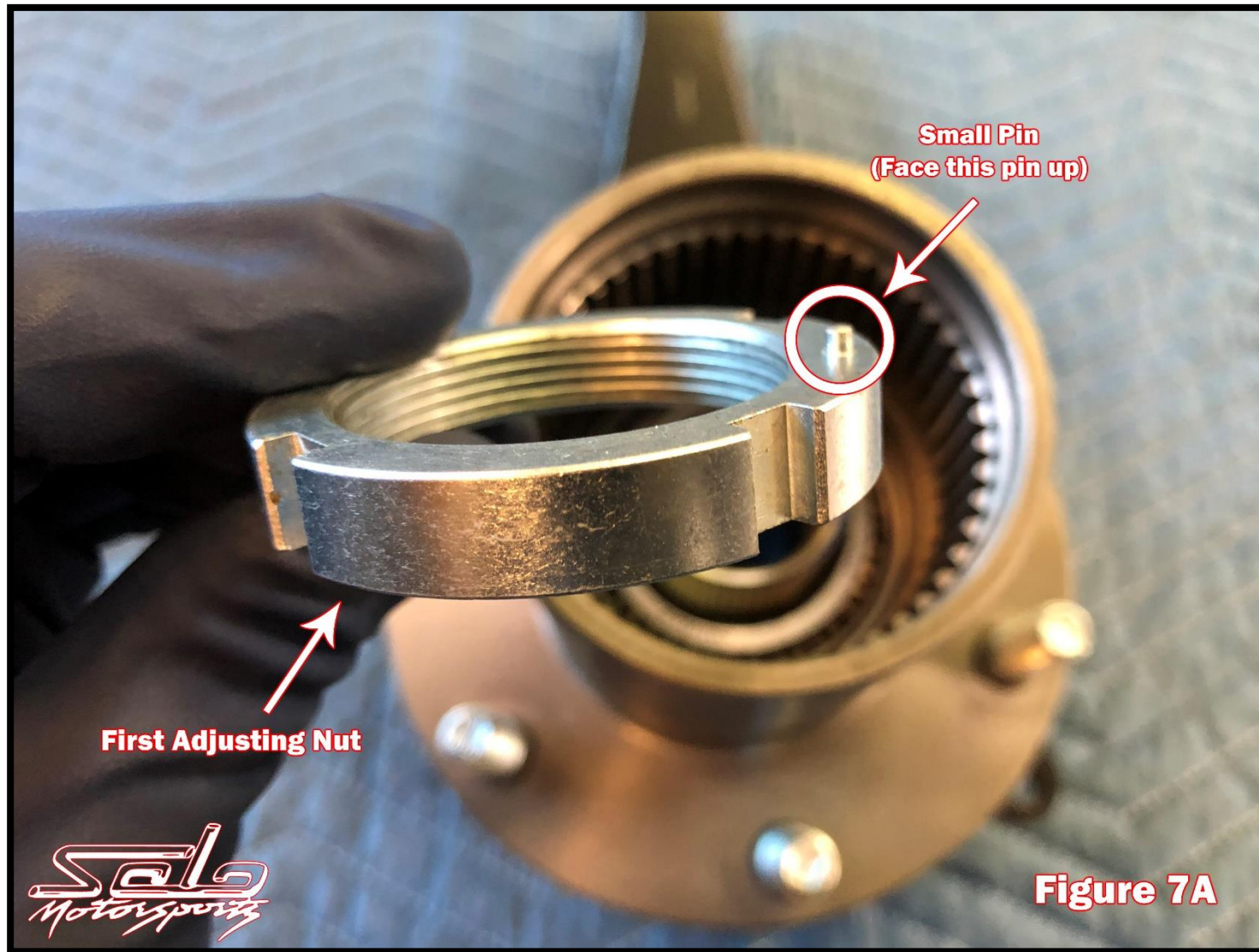


**Seated Bearing**

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**Figure 6B**





**8) Thread the adjusting nut with the small pin onto the snout. Be sure that the small pin on the nut is facing towards you. (Figure 7A, 7B)**

**Dana 44 Spindle Nut Socket**



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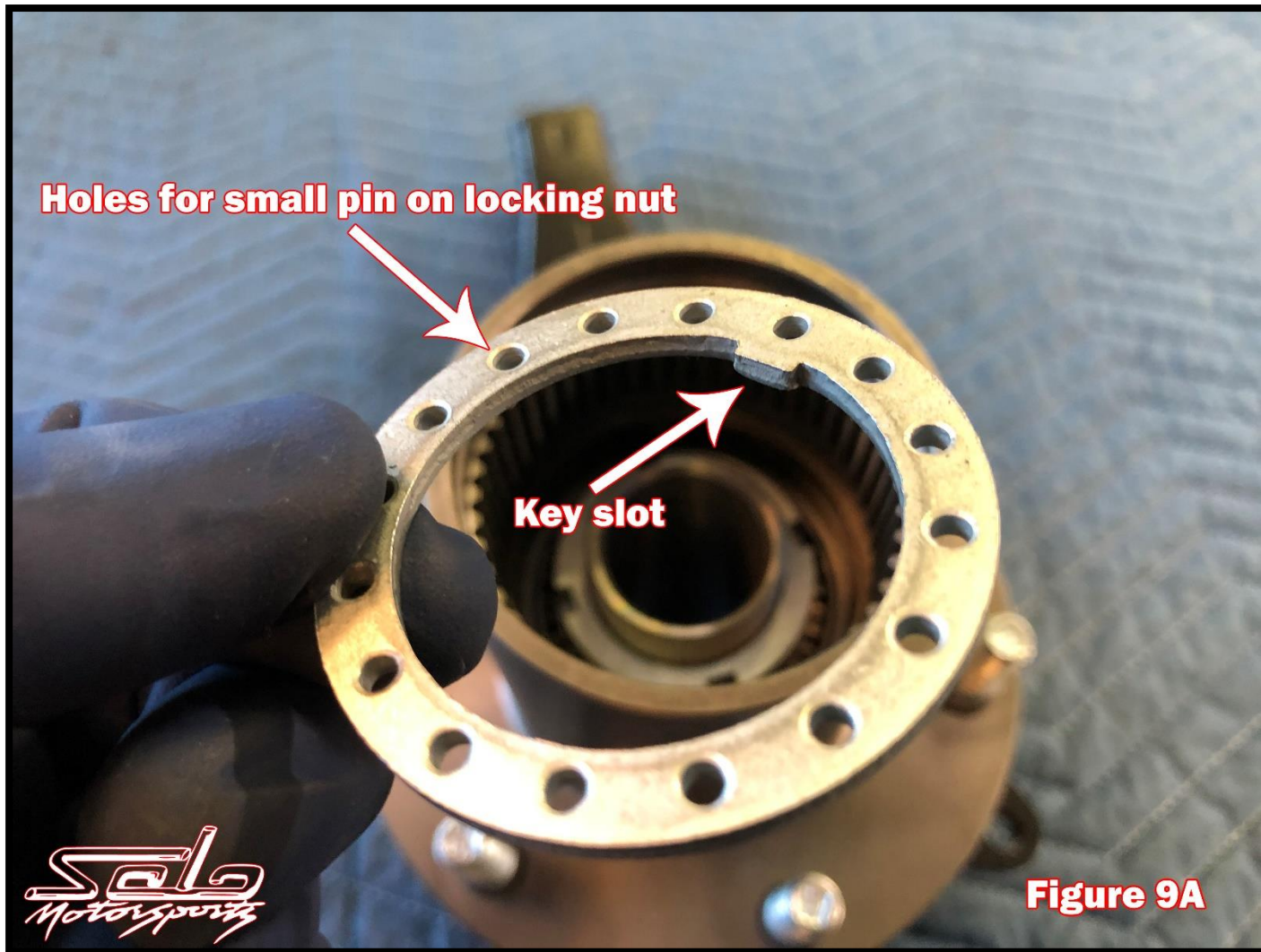
**Figure 8**

**9) Using the Dana 44 spindle nut socket (can be purchased at most auto parts stores). Apply inward pressure on the hub nut wrench and tighten the adjusting nut to 70 ft. lbs. (95Nm) while rotating the hub back and forth to seat the bearings. (Figure 8)**



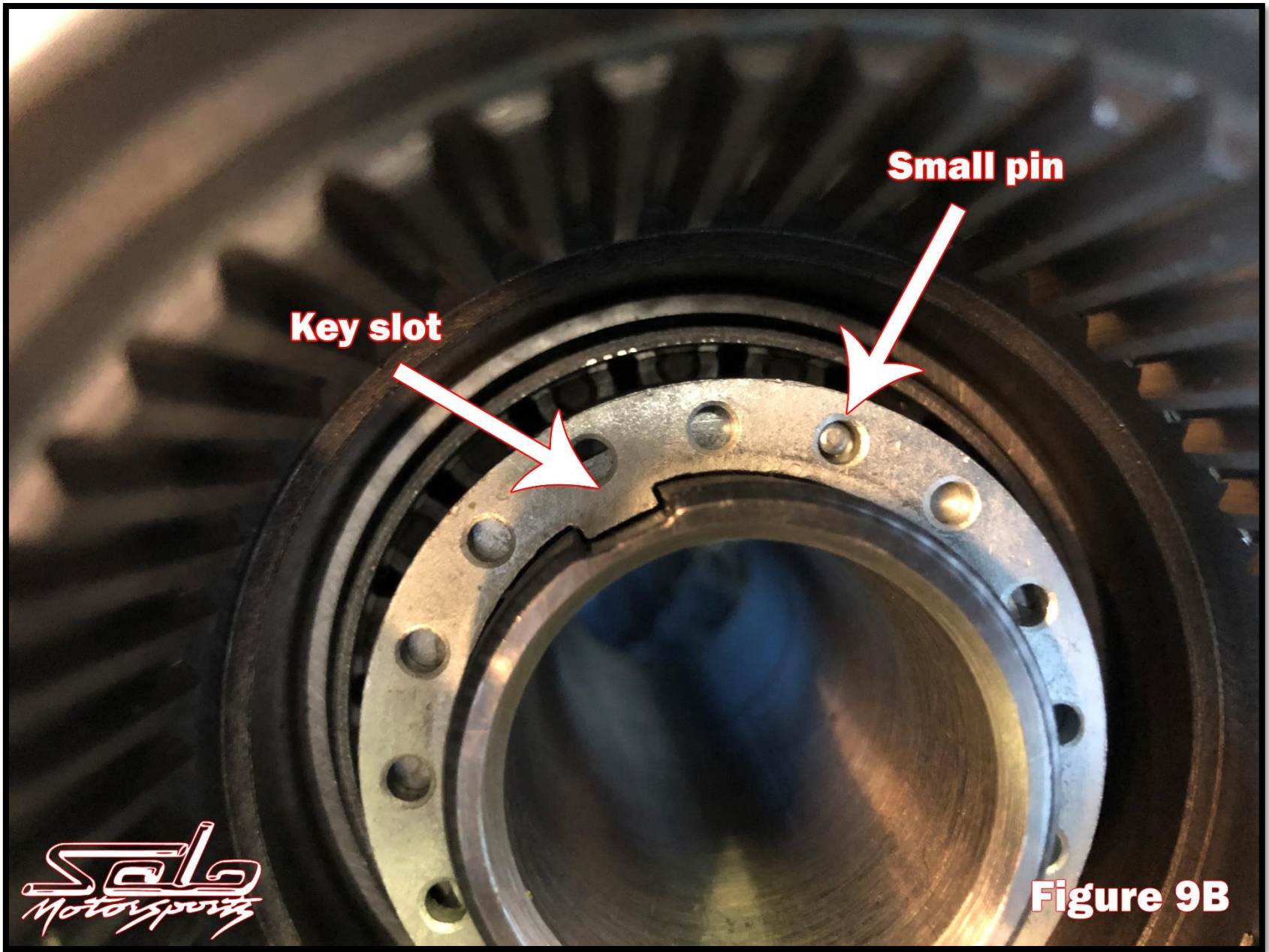
**10) Apply inward pressure on the wrench and back off the nut about 90° then, re-tighten the nut to 15-20 ft. lbs. (20-27Nm).**

**11) Remove the wrench. End-play of the hub/ rotor assembly should be 0 (zero) and the torque required to rotate the hub assembly should not exceed 20 inch lbs. (2.26 Nm).**



**12) Install locking ring over the snout. The locking ring needs to fit in the key slot on the snout and the holes on the locking ring need to align over the small pin on the adjusting nut. (If needed flip the locking ring over if the holes do not align onto the small pin) (Figure 9A, 9B, 9C)**





**Key slot**

**Small pin**

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**Figure 9B**



**Locking Ring**



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**Figure 9C**





**13) Install secondary locking nut onto snout. Tighten the secondary locking nut to 160-205 ft.lbs. (217-278 Nm) (Figure 10A, 10B)**

**Secondary Adjusting Nut**



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**Figure 10B**

**14) Final end-play of the wheel on the spindle should be 0-0.004 in.**





**15) Place metal ring with the three holes in the hub. (Figure 11A, 11B)**

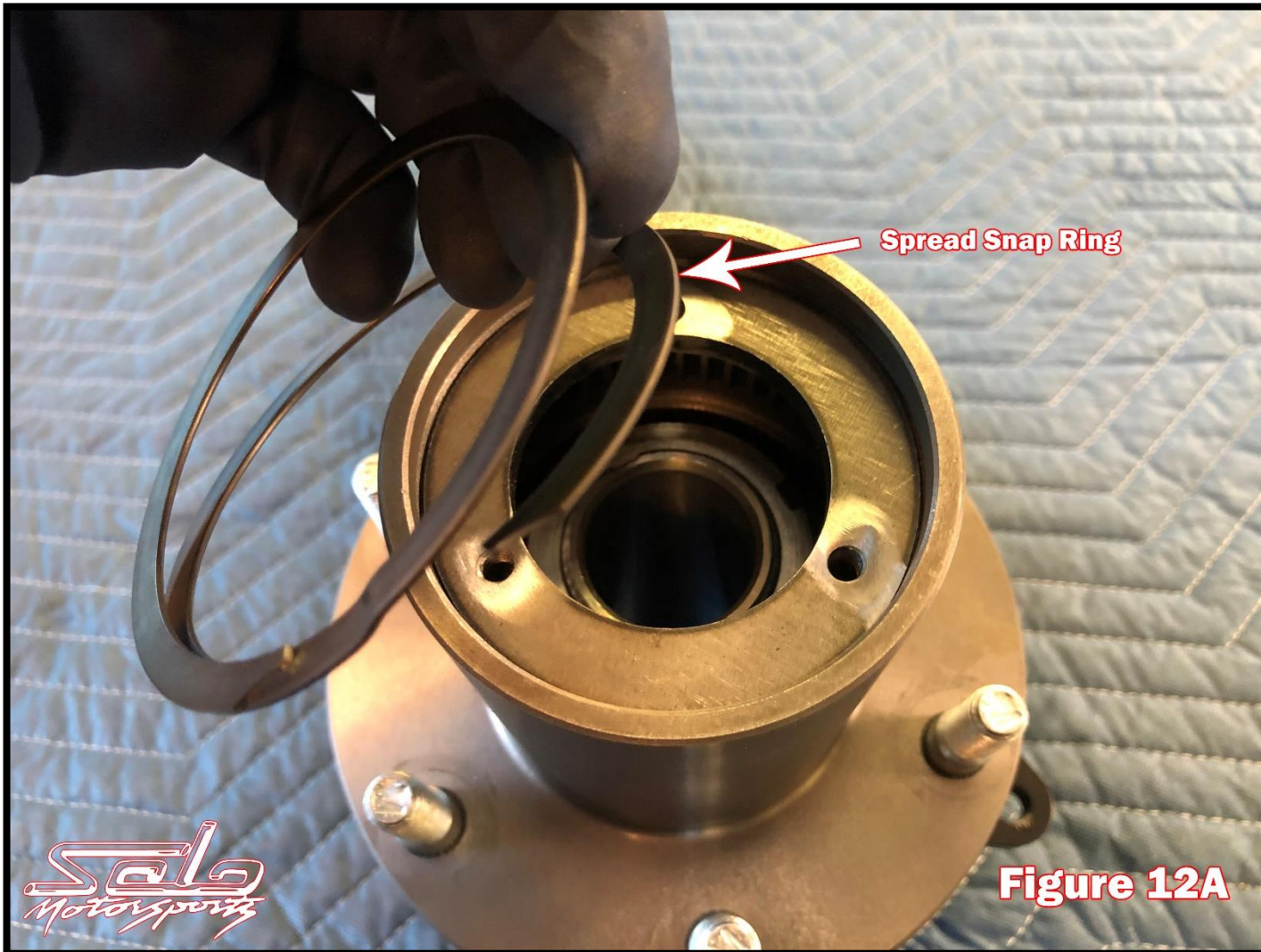
**Hub Cap Retaining Ring**



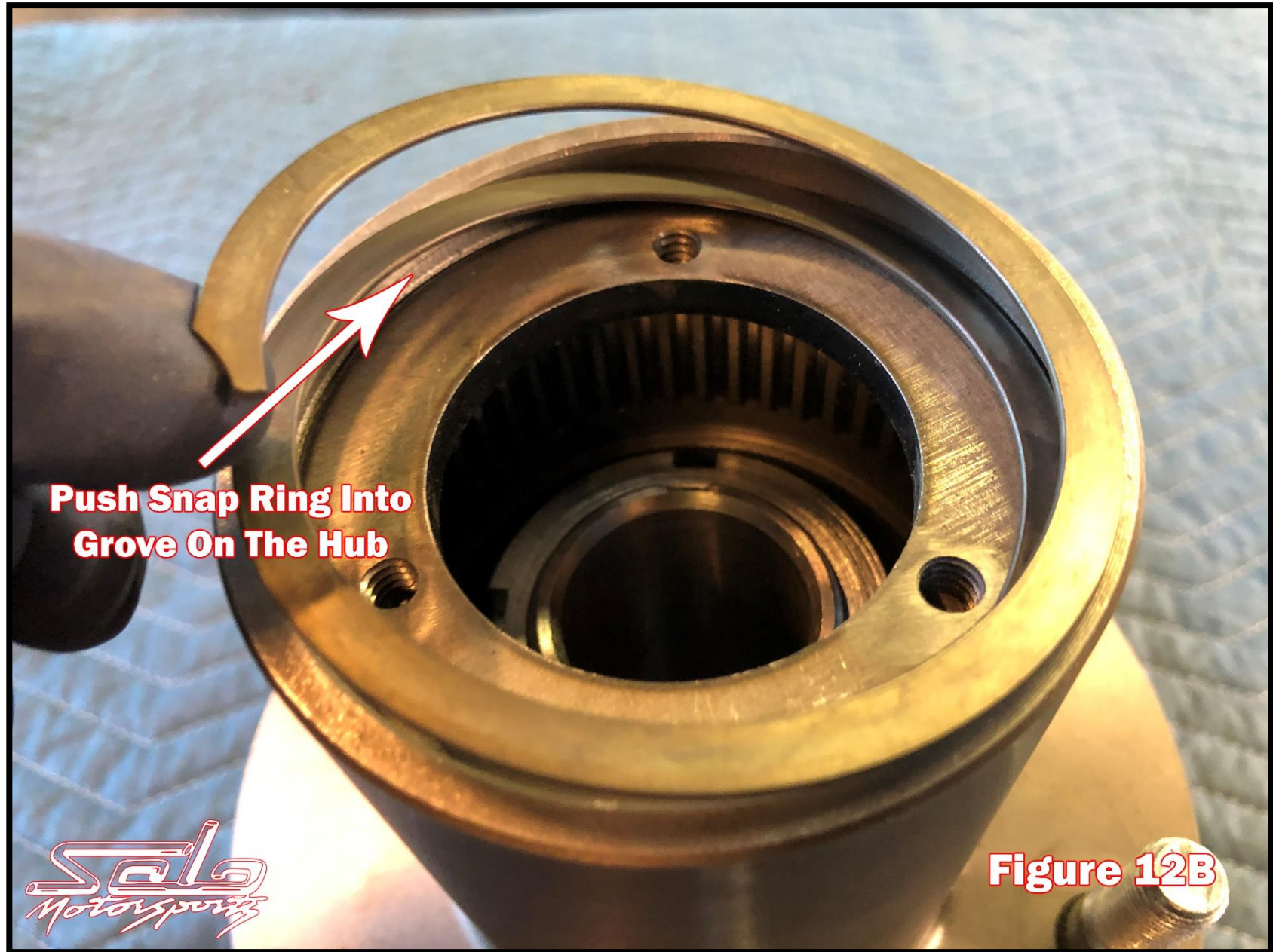
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**Figure 11B**





**16) Install snap ring. Spread the snap ring with fingers and push the snap ring into the hub. (Figure 12A, 12B, 12C, 12D)**



**Push Snap Ring Into  
Groove On The Hub**

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**Figure 12B**





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**Figure 12C**



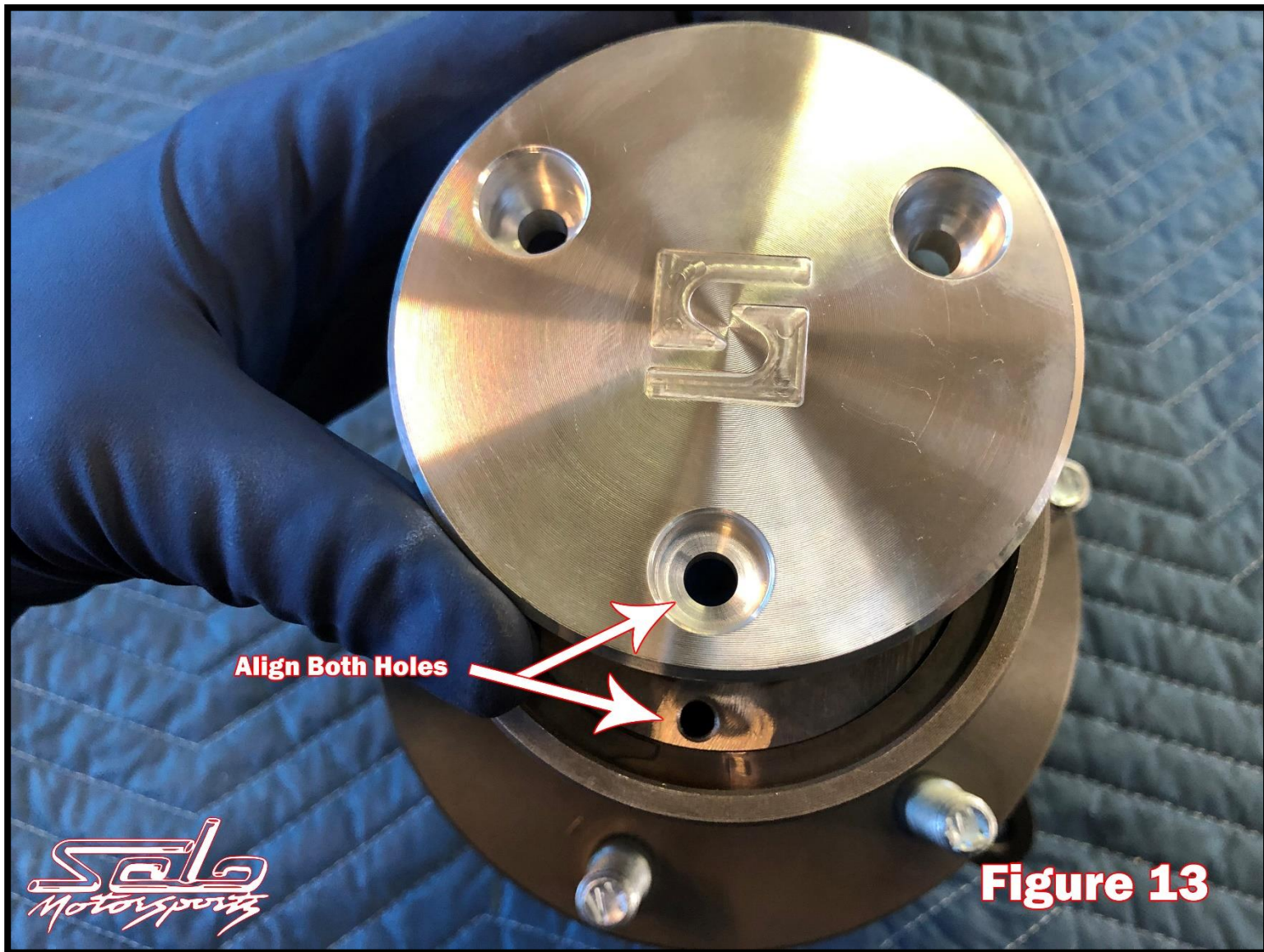
**Snap Ring**



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**Figure 12D**





**17) Install the aluminum hub cap on the hub. Align the hub cap holes to the holes on the metal ring. (Figure 13)**



**Figure 14**

**18) Install one stainless steel and one plastic washer on each bolt. Place plastic washer below the metal washer. Insert and tighten one bolt into each hole of the aluminum hub cap. ( 3/16th Allen key is required) (Figure 14)**





**Figure 15**

**19) The spindle hub is now complete (Figure 15)**