

**CUSTOMER INFORMATION SHEET – NO. 038**

**DO35 MAINTENANCE INSTRUCTIONS**

(DO35 V3 LAUNCHED PRODUCTION JUNE 2017)

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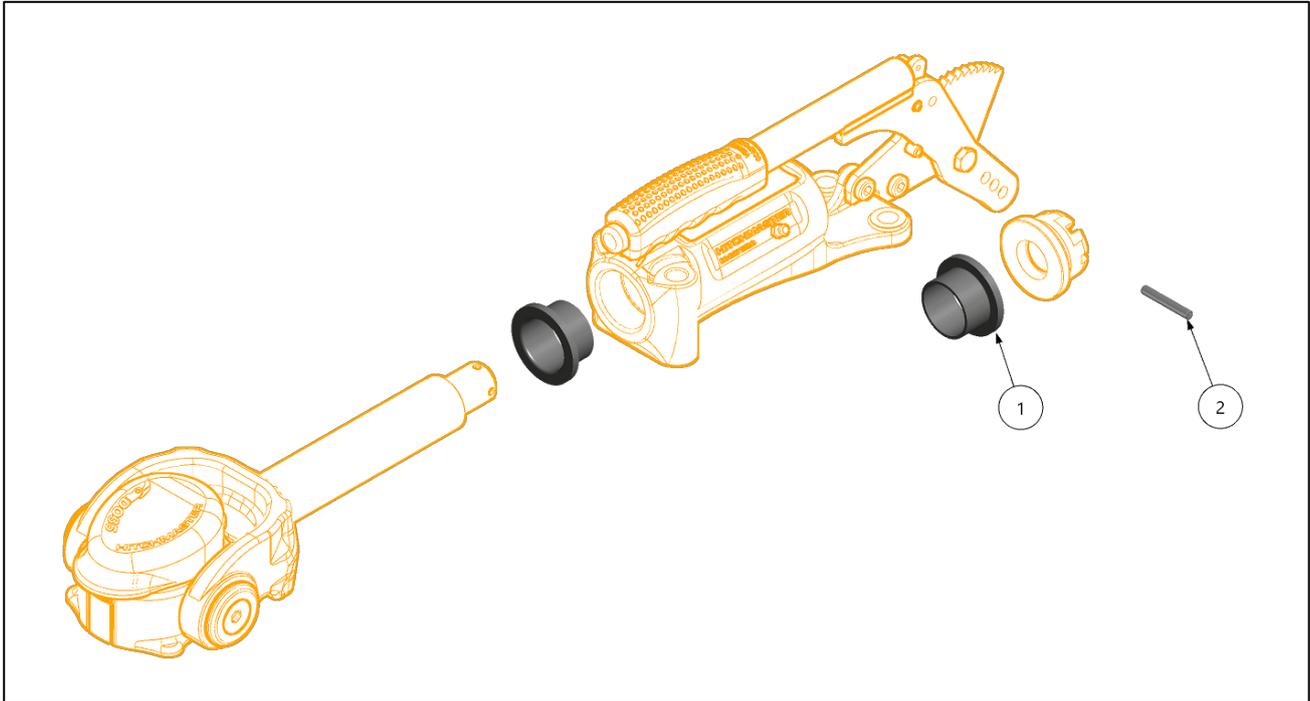


IMAGES ARE FOR REFERENCE ONLY, COLOURS AND PARTS MAY DIFFER

**FAILURE TO FOLLOW ANY OF THESE DIRECTIONS MAY RESULT IN COUPLING FAILURE.**



## 1.0 Replacing Spindle Bushes V3



### Spindle Bush Replacement Kit – 18D-DO35-SPINDLE-BUSH-V3

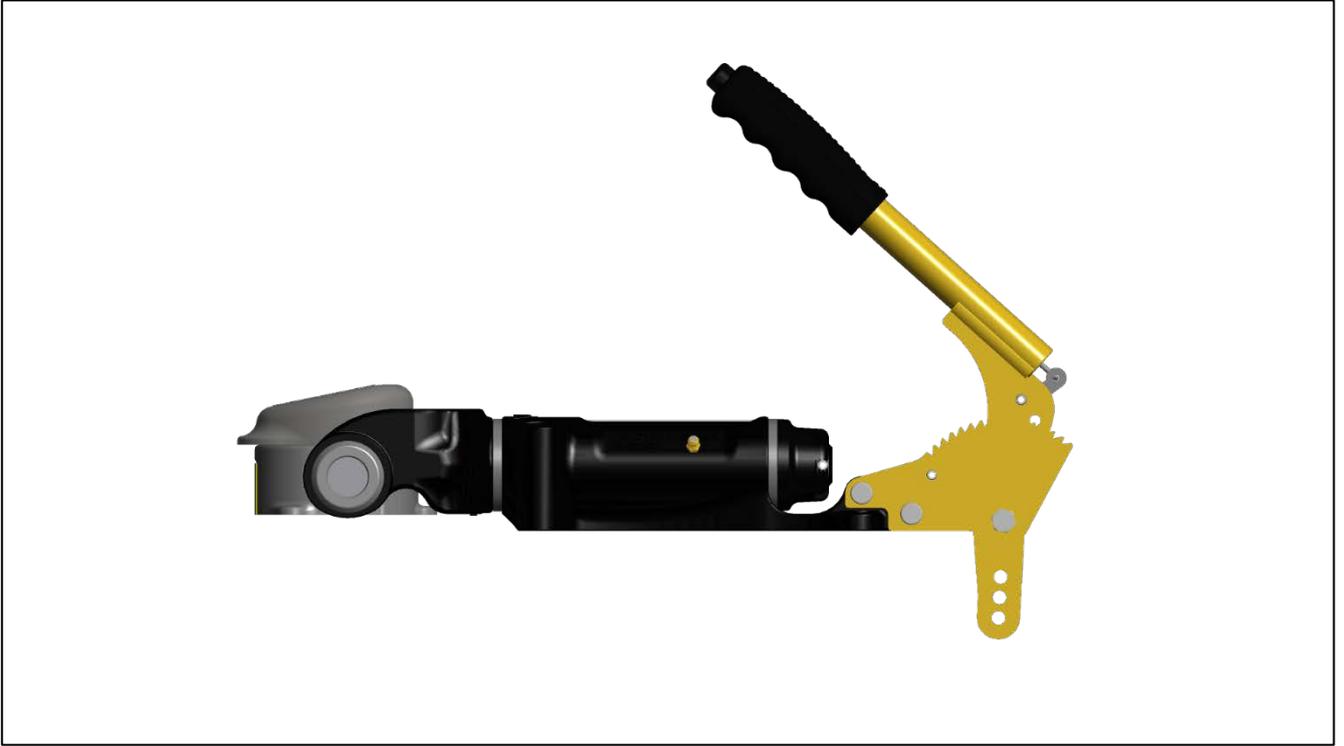
ITEM	ITEM QTY	DESCRIPTION
1	2	SPINDLE BUSH
2	1	SEL-LOC M6x40

### Tools required

- 1 ½” Spanner or Adjustable Wrench
- Hammer
- 6mm punch

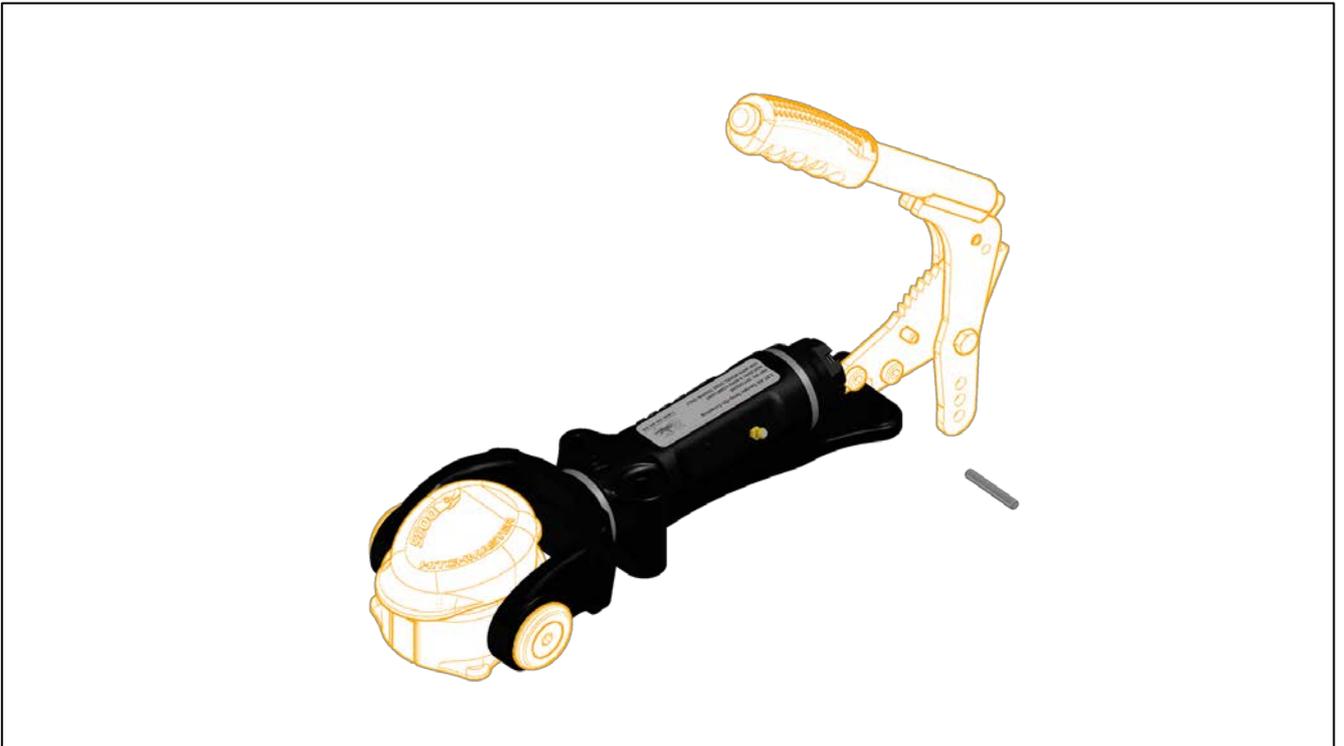
Spindle bushes may be replaced without the need to disassemble the front locking mechanism and universal should this be the only maintenance requirement.

1.1



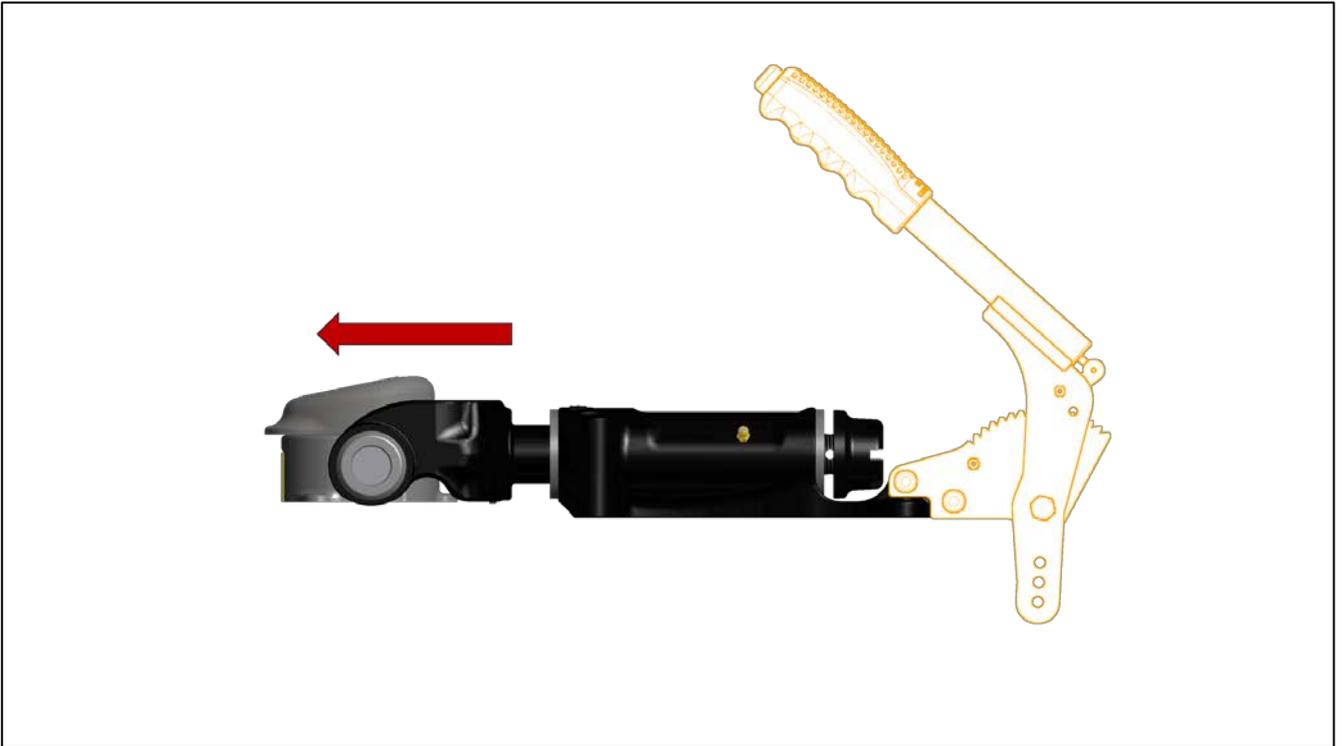
Lift handbrake handle up to give as much clearance as possible.

1.2



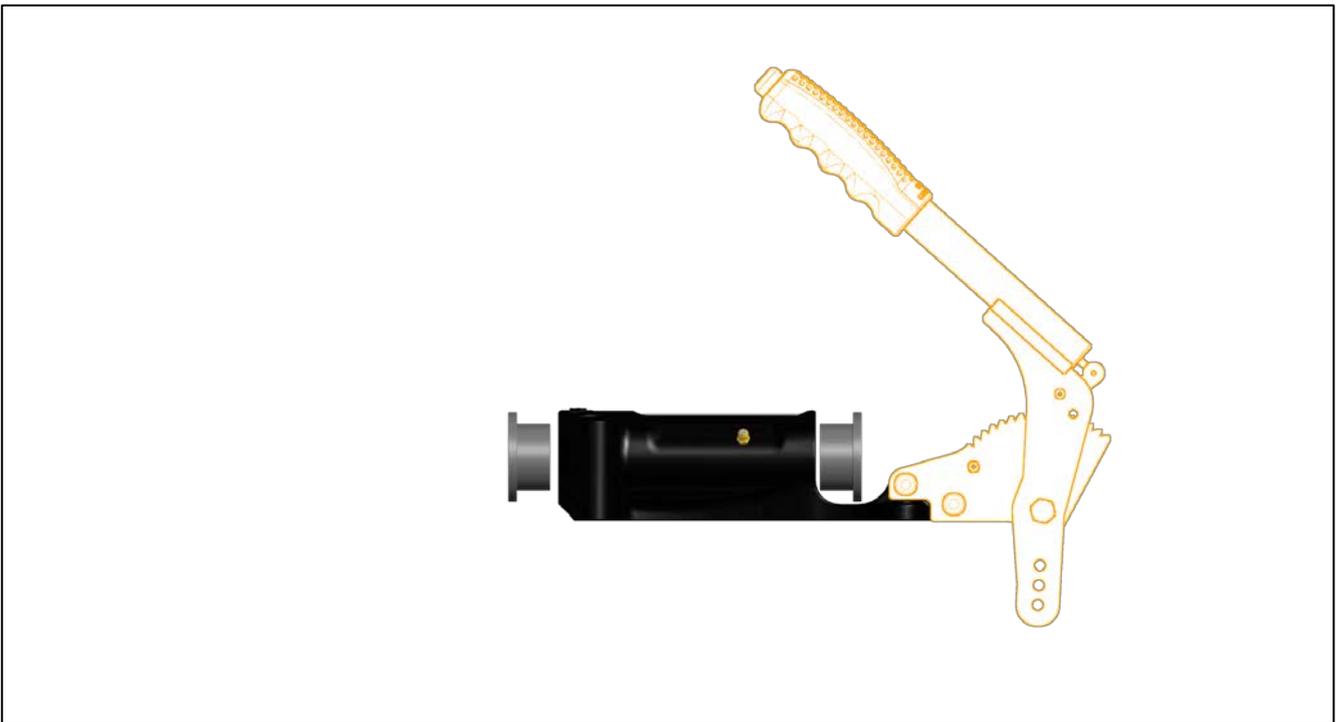
Tap out sel-loc pin using the punch.

**1.3**



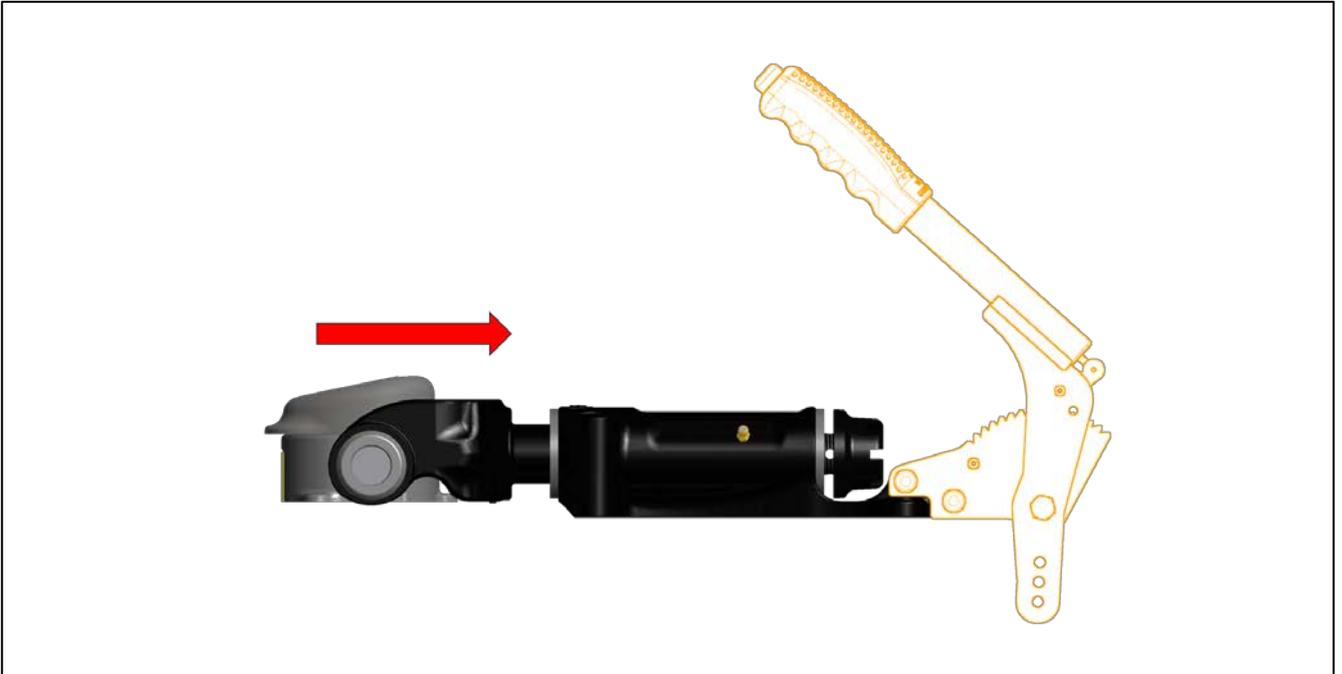
Undo the nut and yoke assembly.

**1.4**



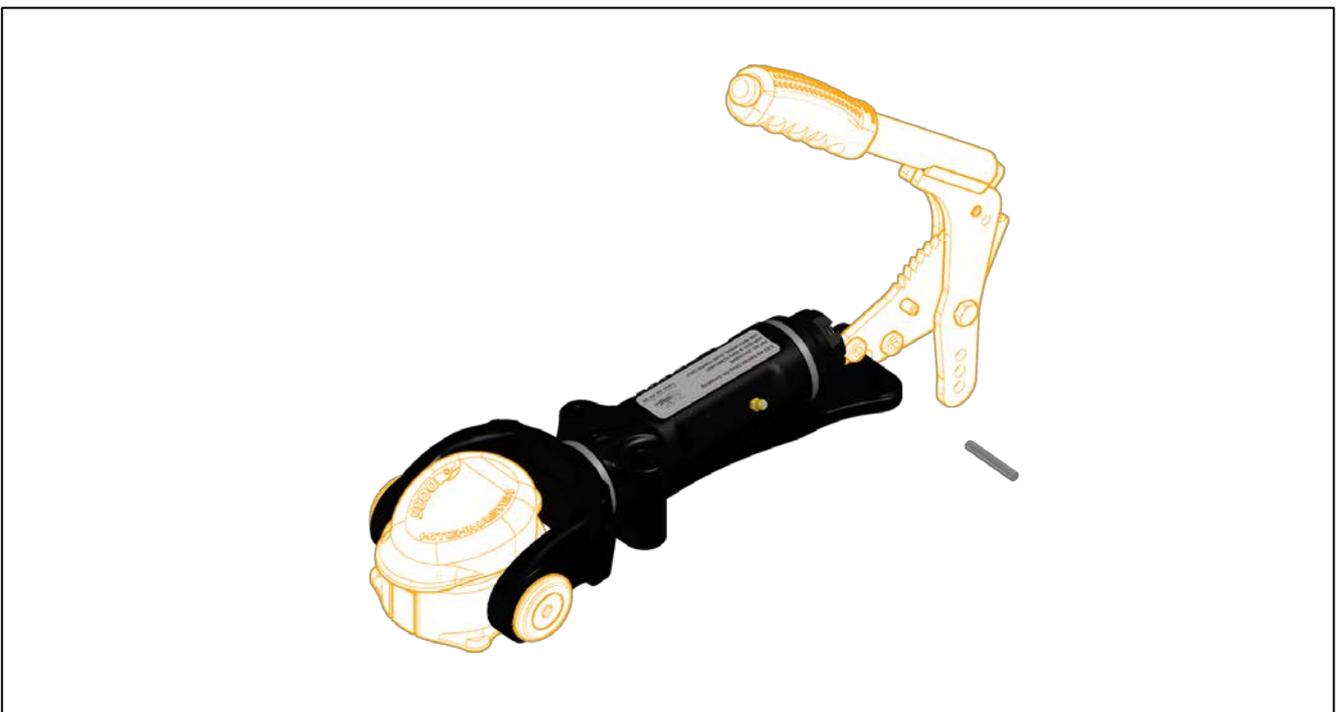
Remove and replace the poly bushes. Apply a layer of grease to the outside of the bush and the internal bore to allow the spindle to slide in with ease.

**1.5**



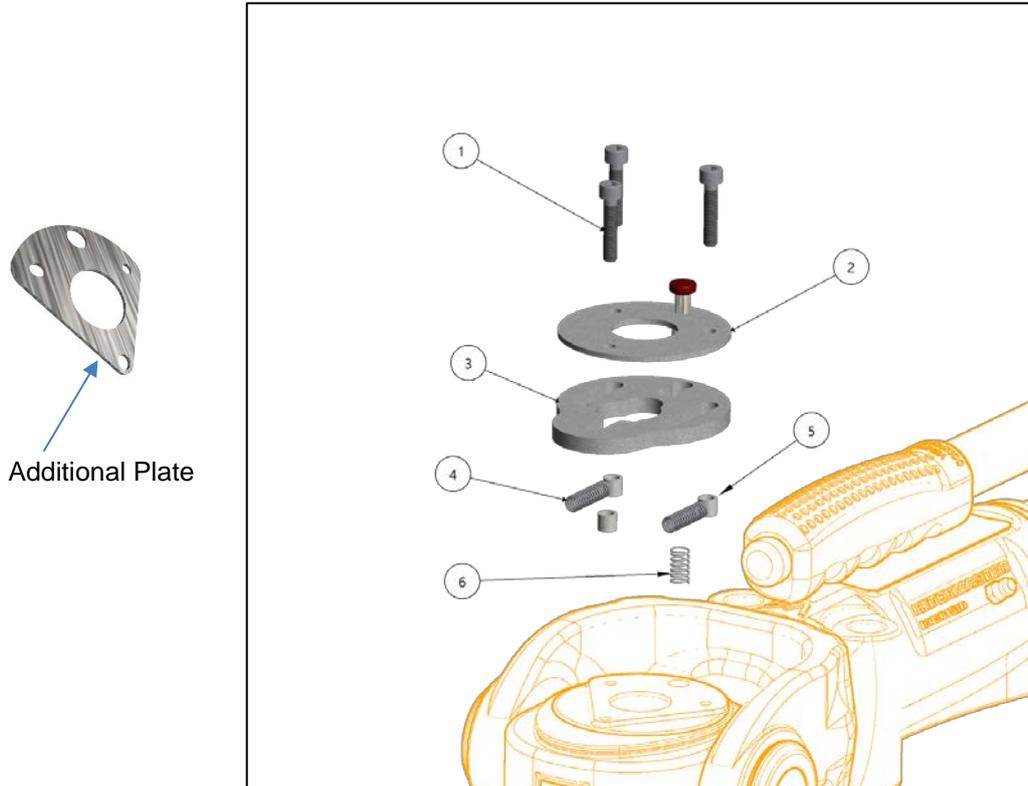
Insert the yoke assembly and tighten the nut until the assembly is firm but still allows rotation of the yoke assembly with some effort.

**1.6**



Align the nut to the nearest cross-hole in the spindle and hammer sel-loc pin into position. Grease coupling until the grease starts squeezing out from the sides of the bushes. Check rotation of yoke.

## 2.0 Replacing Locking Mechanism V3



### DO35 REPAIR LOCK ASSEMBLY – 18D-DO35-REPAIR-V2-V3

ITEM	ITEM QTY	DESCRIPTION
1	3	M5 X 16 SHCS 304SS W LOCTITE
2	1	COVER PLATE BUTTON ASSEMBLY
3	1	SLIDER
4	2	SLIDE SPRING
5	3	SLEEVE
6	1	PLUNGER SPRING

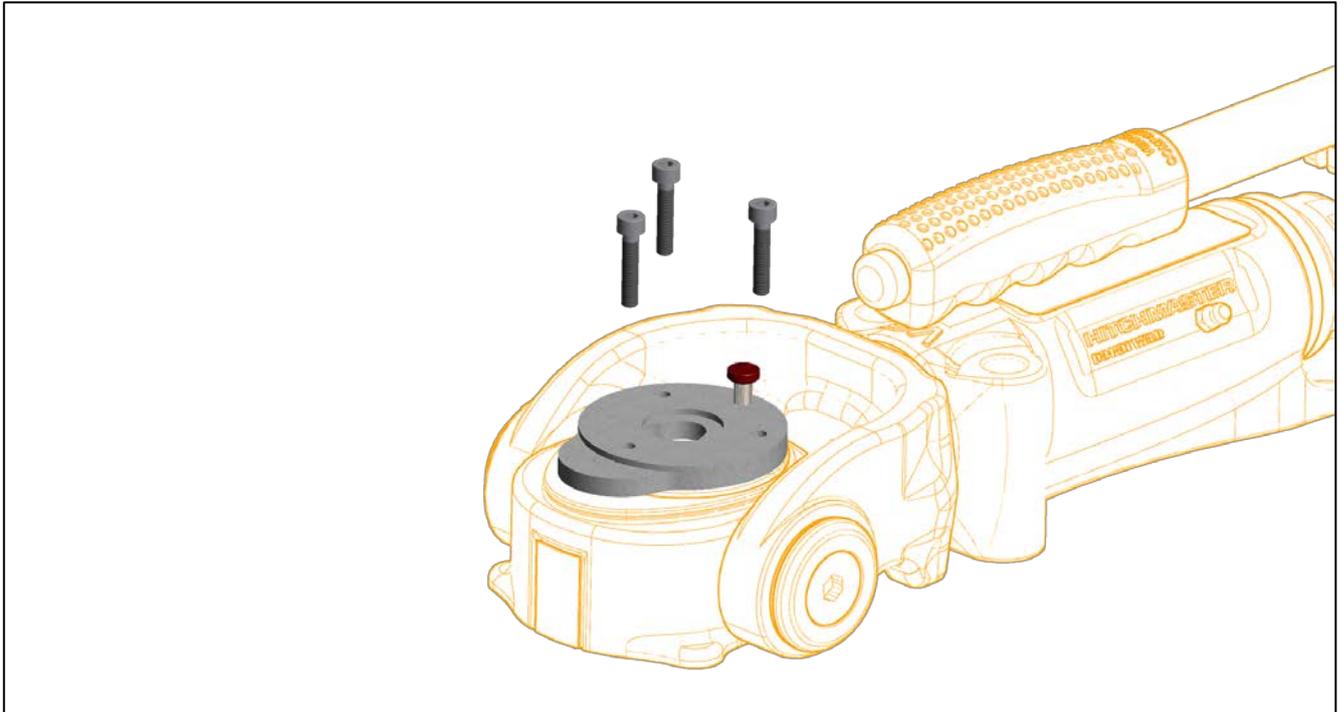
Discard additional plate as it is not used in this build.

#### Tools required

- 4mm Hex Key
- Torque Wrench with 4mm Hex Key attachment (5Nm capable)
- M5 Thread Tap

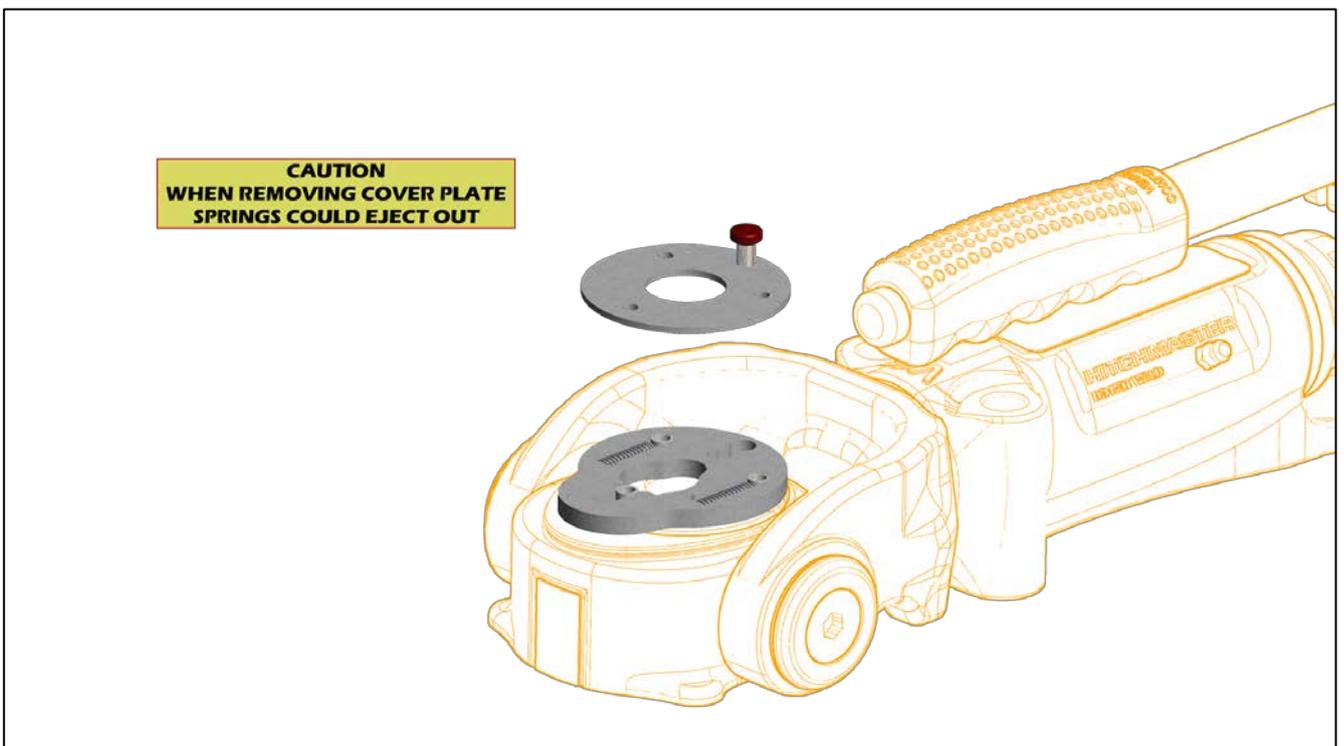
The locking mechanism may be disassembled with the remainder of the coupling intact.

## 2.1



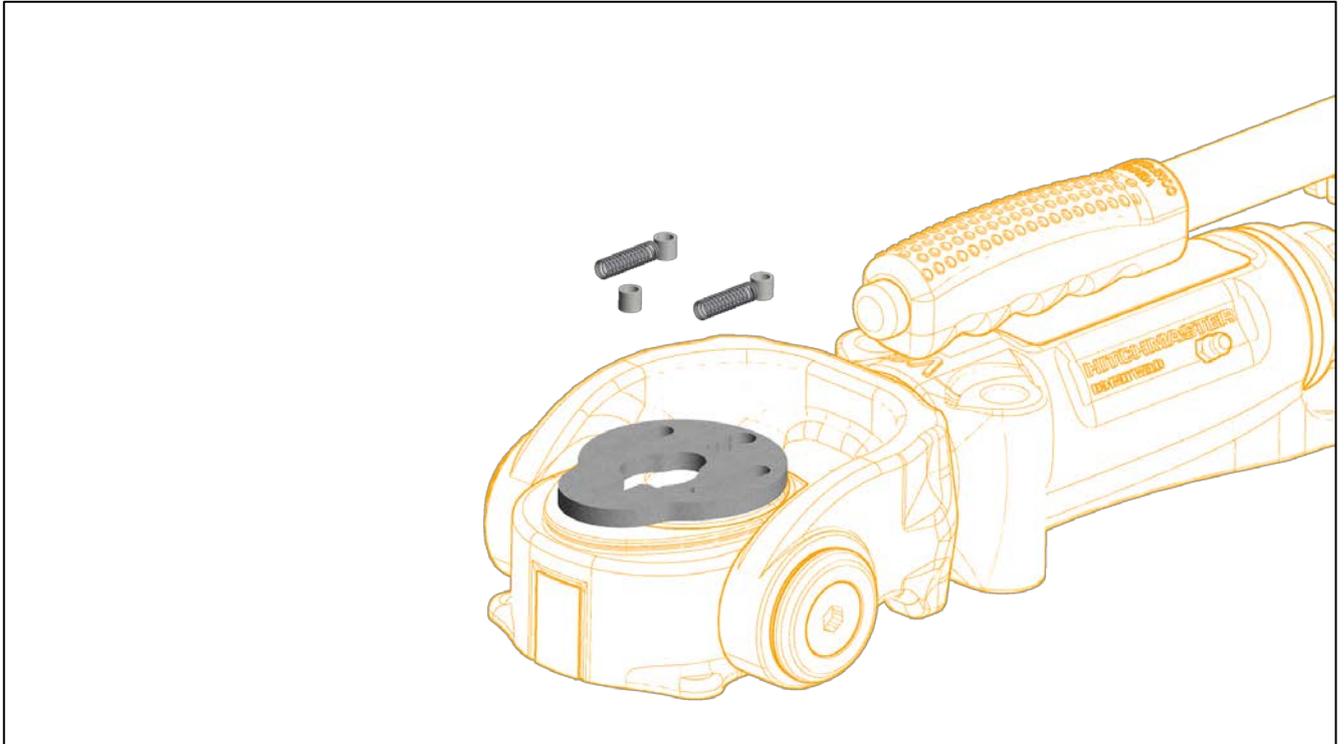
Remove the three socket head cap screws and discard.

## 2.2



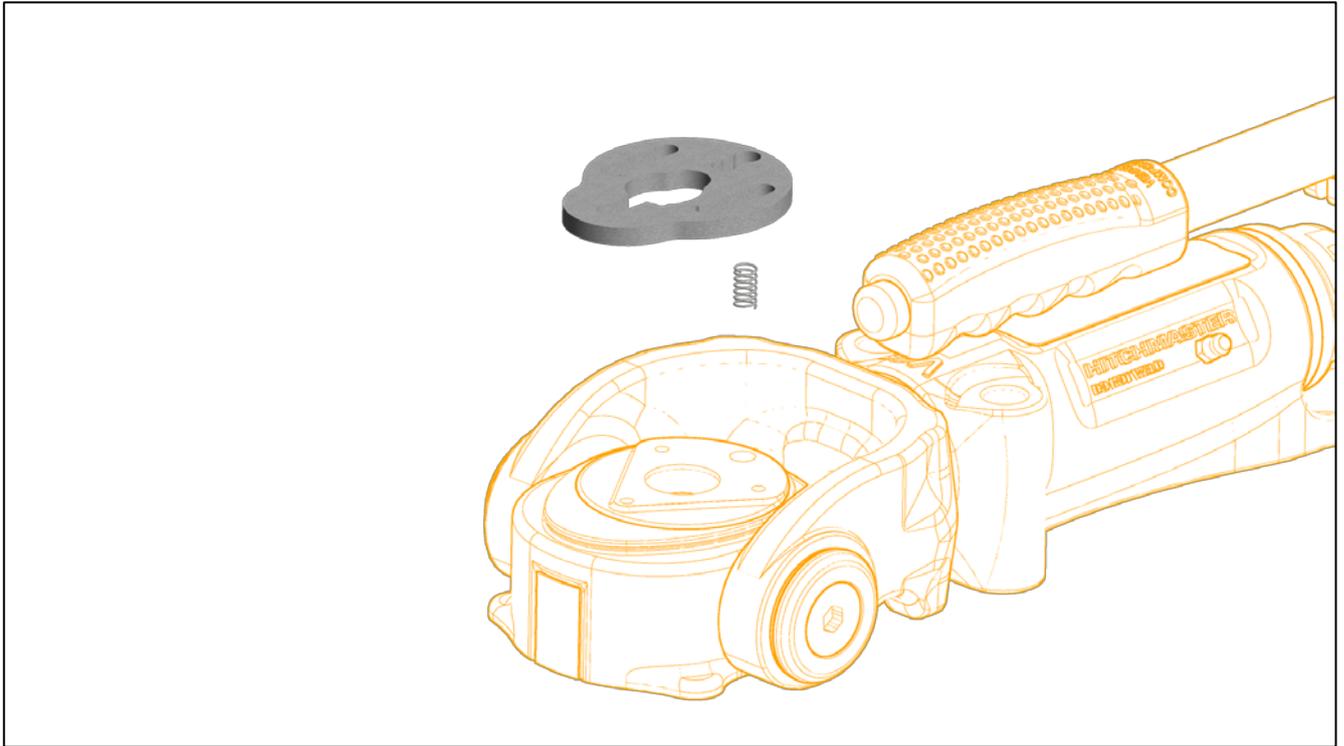
The disassembly of the rest of the locking mechanism can be done in one go or separately. Carefully remove cover plate and discard.

### 2.3



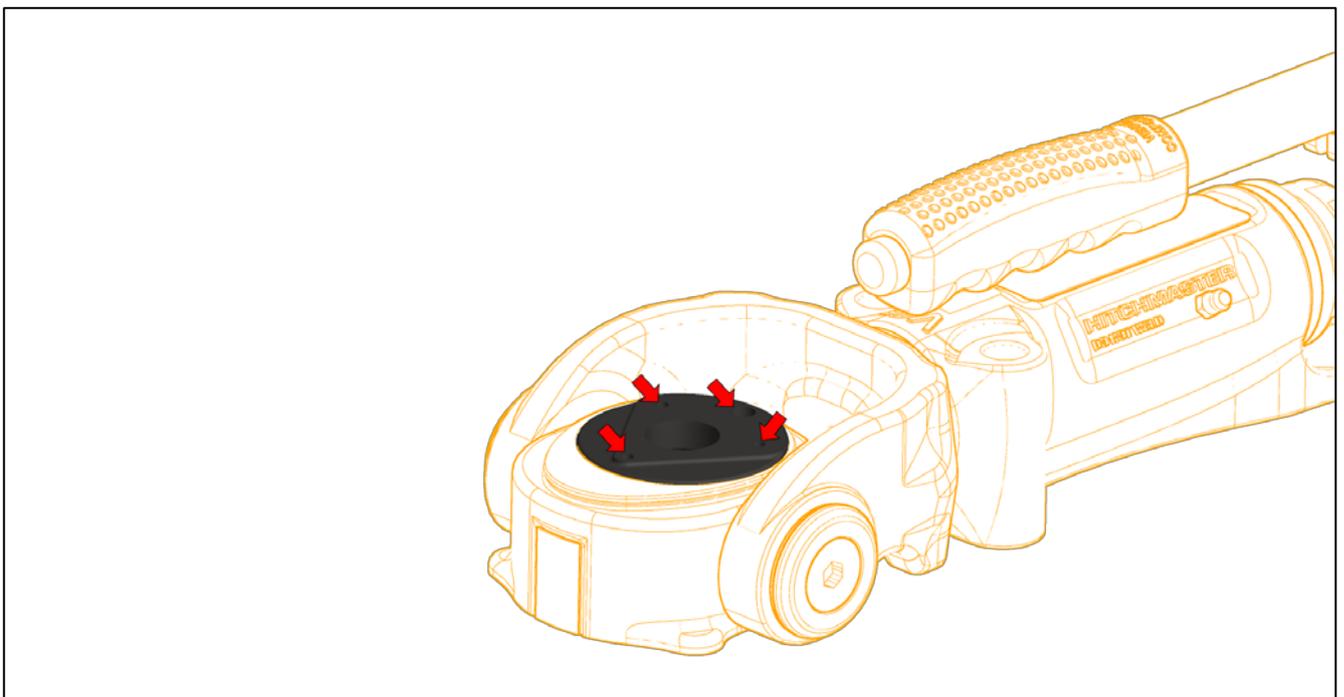
Carefully remove the slide springs and spacers and discard.

## 2.4



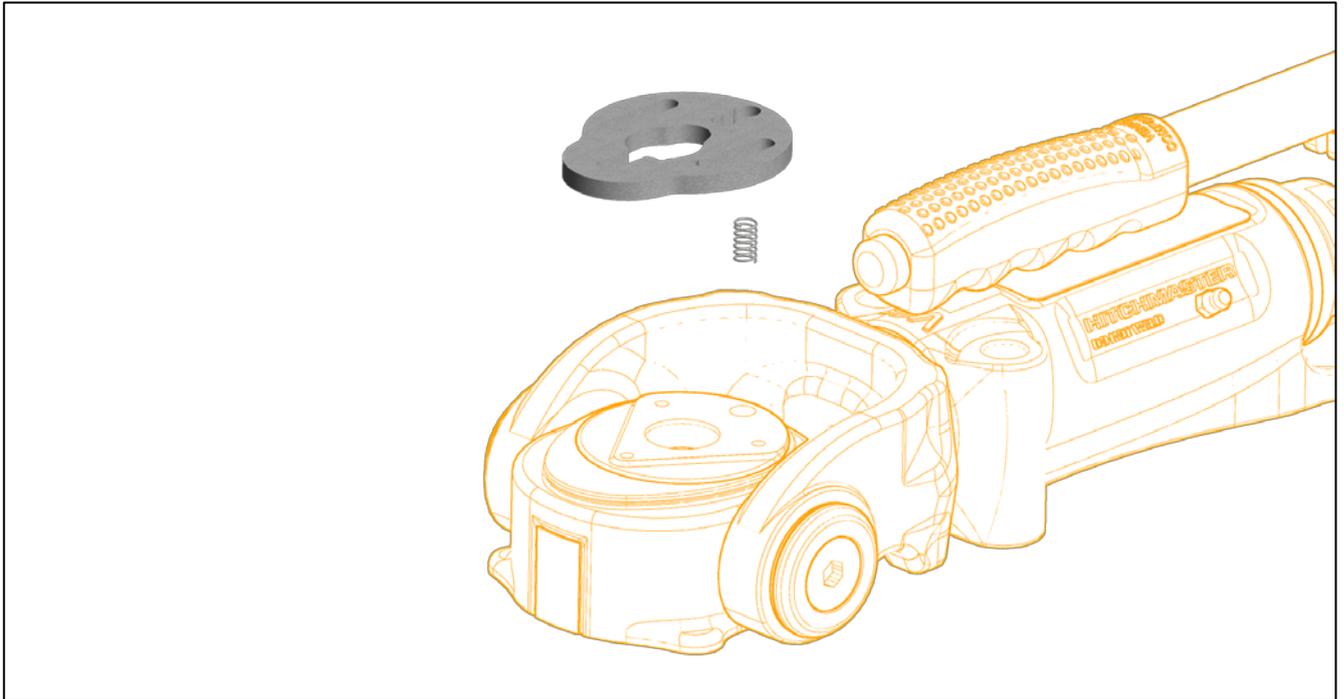
Remove the slide and washer plate and the plunger spring and discard.

## 2.5



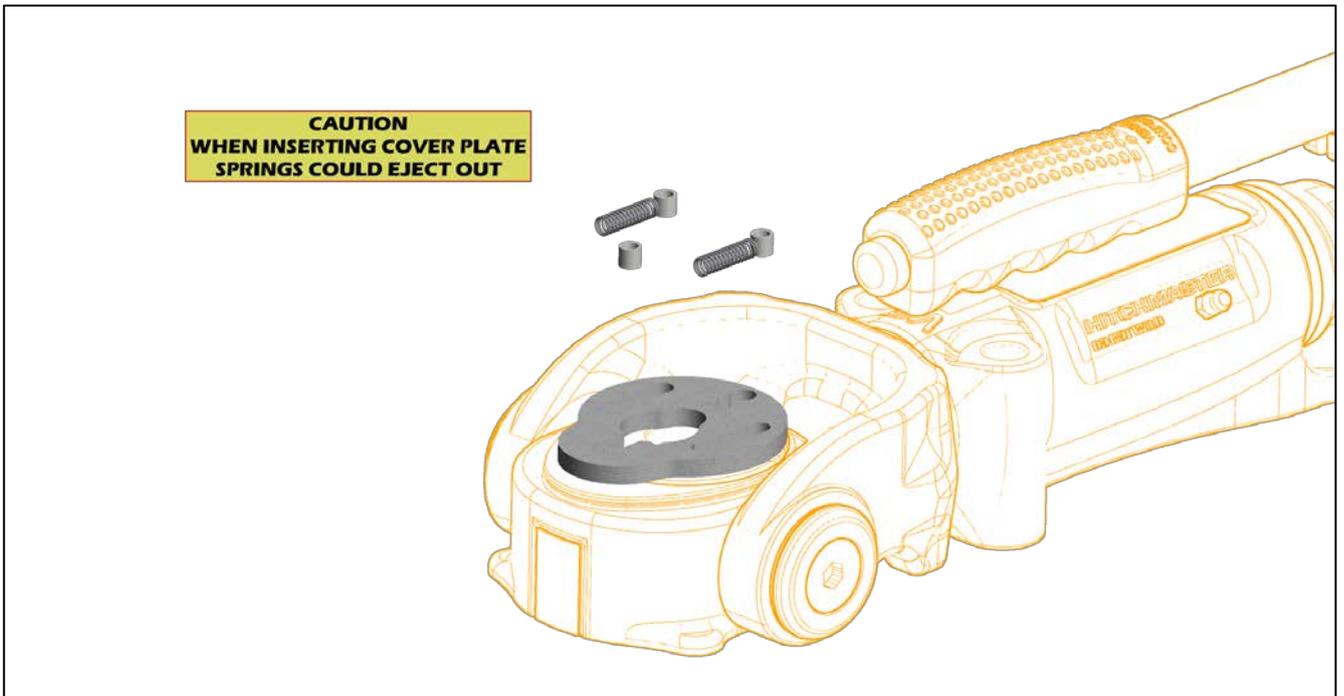
Using the 5mm thread tap clean out the three threaded holes making sure that all the debris is out and clean out spring hole. **MUST BE CLEAN AND DRY**

2.6



Reassemble with the new parts that are given, place the plunger spring in the plunger spring hole and the slider plate.

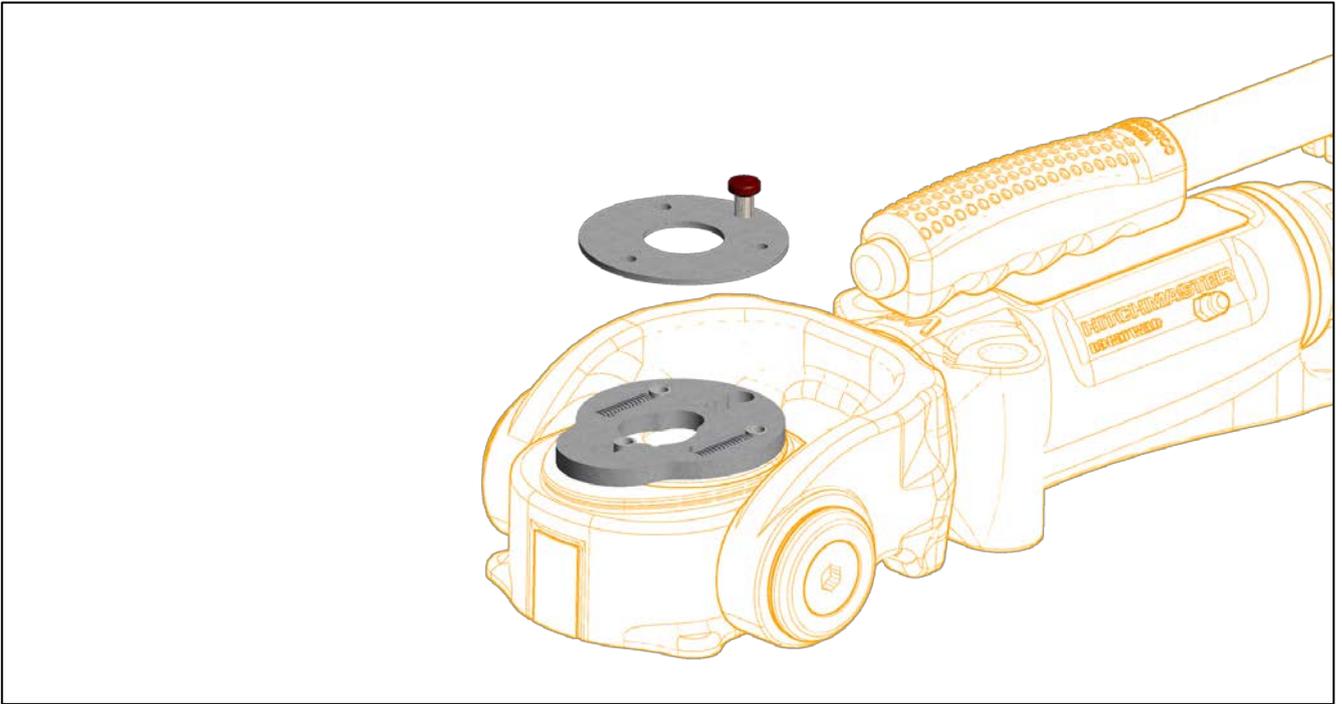
2.7



Carefully place the new spacers and the slide springs in the slider plate making sure that the spacers don't eject out.

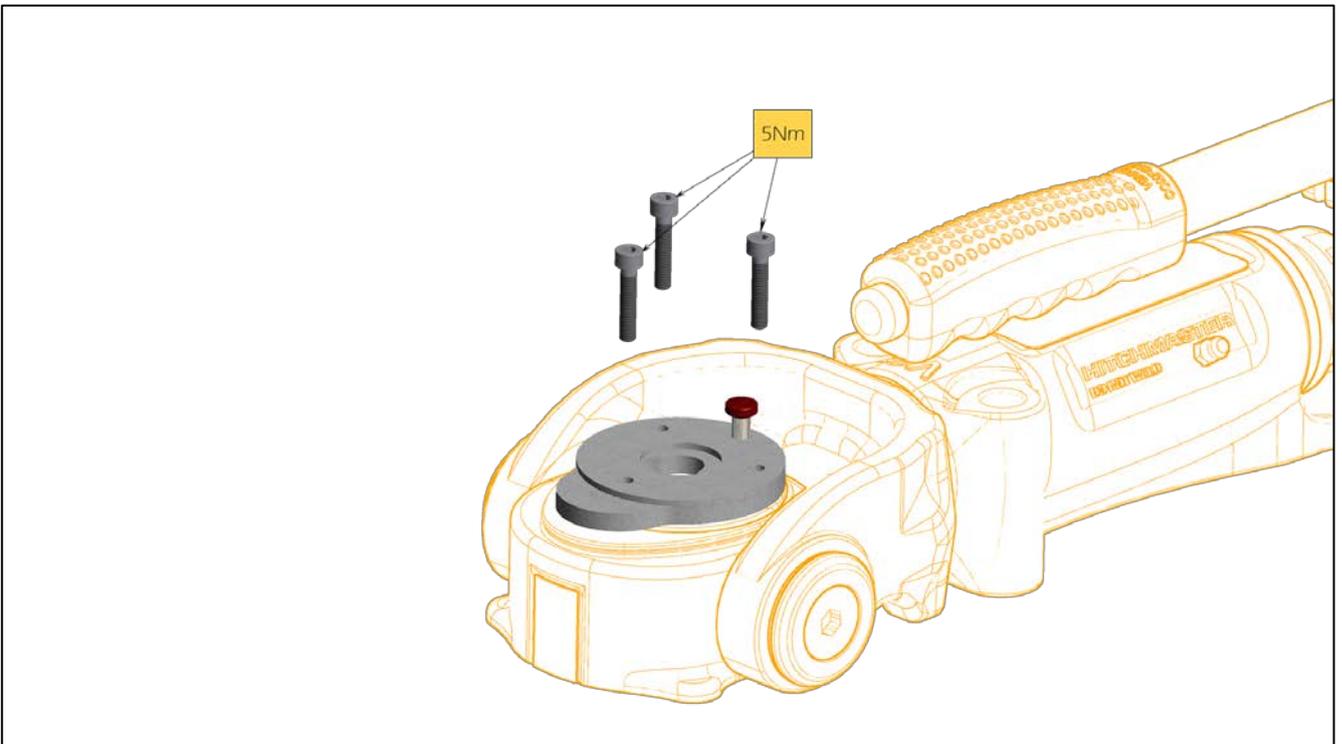


## 2.8



Insert the new cover plate and button mechanism onto of the plunger spring lining up the bolt holes with the spacers.

## 2.9

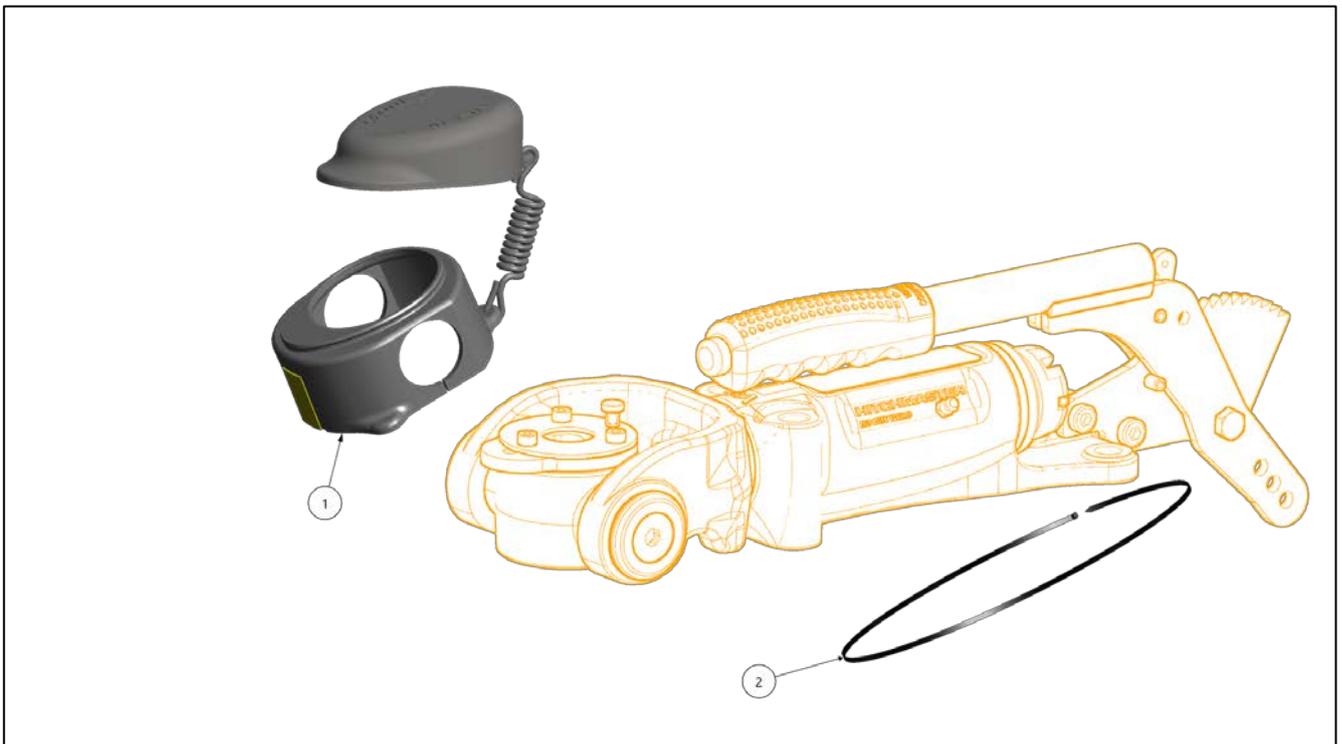


Insert the new pre-locitted socket head cap screws making sure that they go through the spacers and tighten them up with the 4mm Hex Key and Torque to 5Nm. It is recommended to put a small indicator mark after torquing on the bolt heads, making it easier for a visual inspection to spot any non-torqued bolts.



Detail of visual inspection

### 3.0 Replacing Bumper and Dust cover V3



**DUST COVER REMOVED IN IMAGES TO ALLOW BETTER VIEWING.**

**Bumper Replacement Kit – 18D-DO35-CAP-BUMPER-V3**

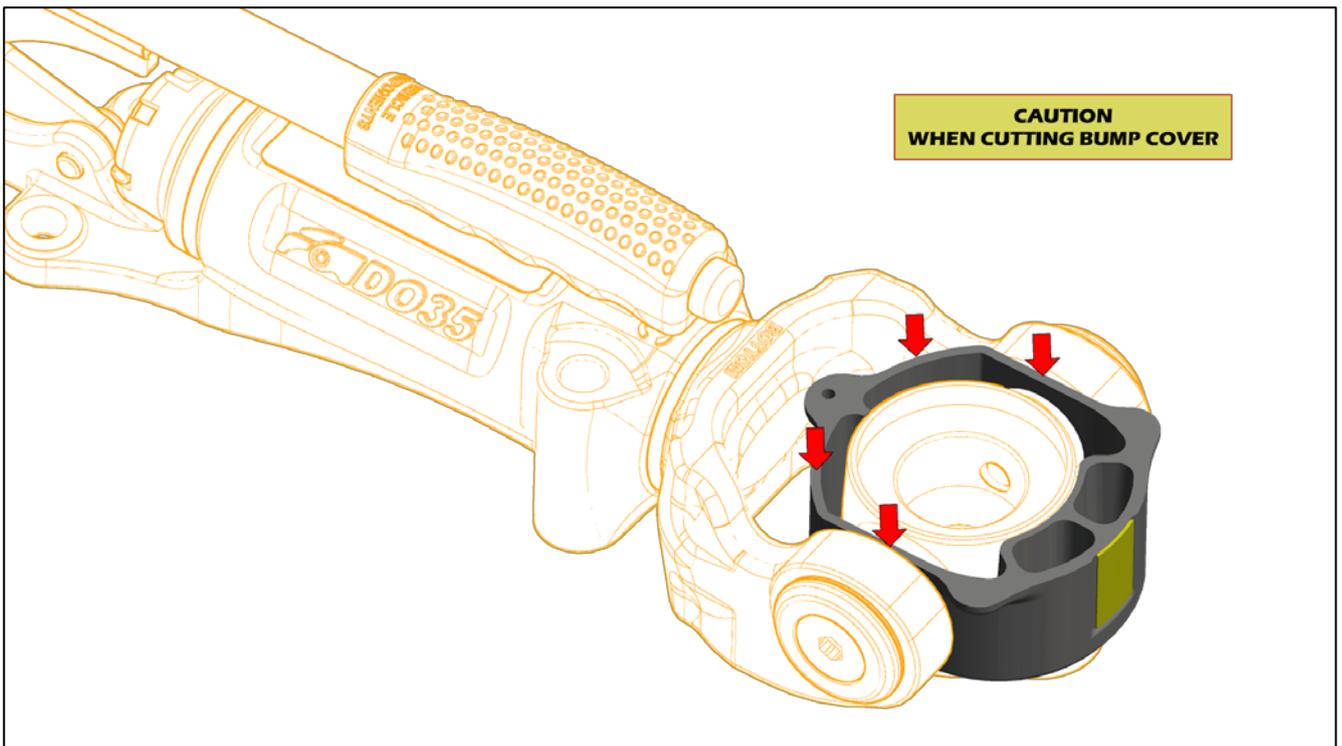
ITEM	ITEM QTY	DESCRIPTION
1	1	BUMP COVER AND DUST COVER ASSEMBLY
2	1	ZIP TIE

**Tools required**

- Sharp Blade
- Plier Diagonal Cutters

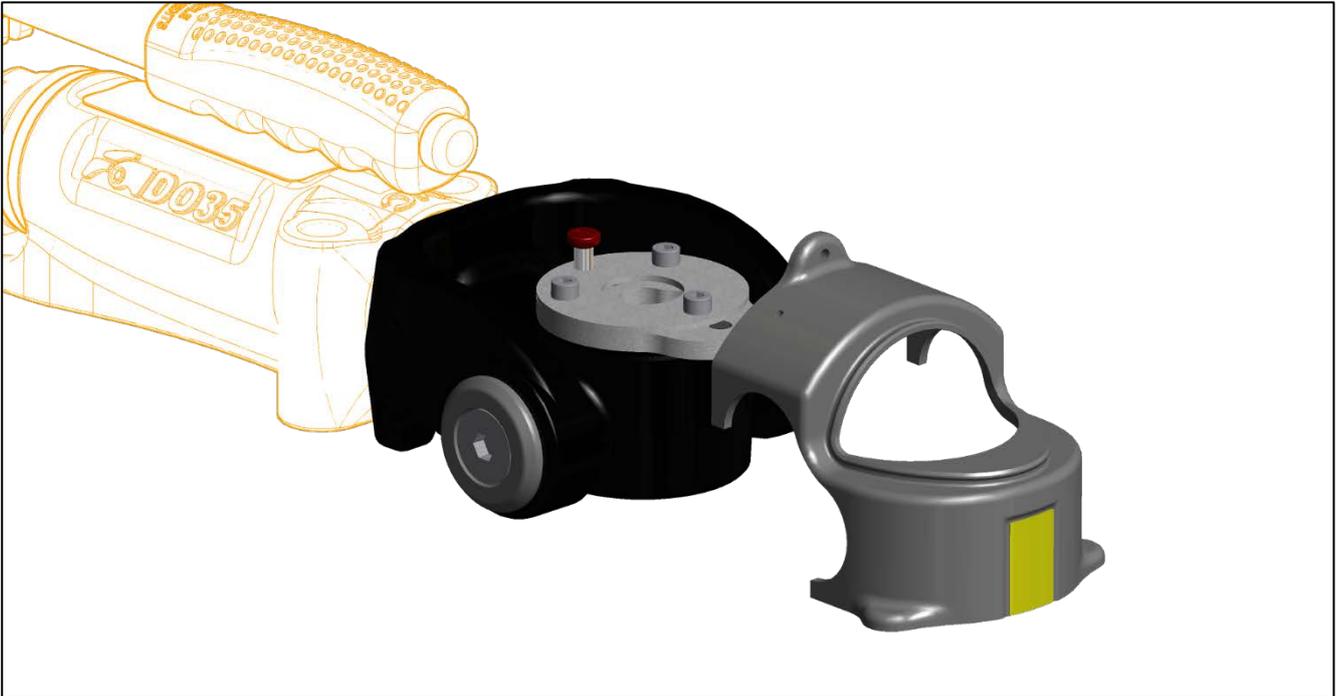
The bumper may be replaced independent of any other process if this is all that is necessary. If the bumper currently on the coupling is damaged it can simply be cut with a sharp blade and removed from the coupling. This will allow the locking mechanism and universal to remain intact.

**3.1**



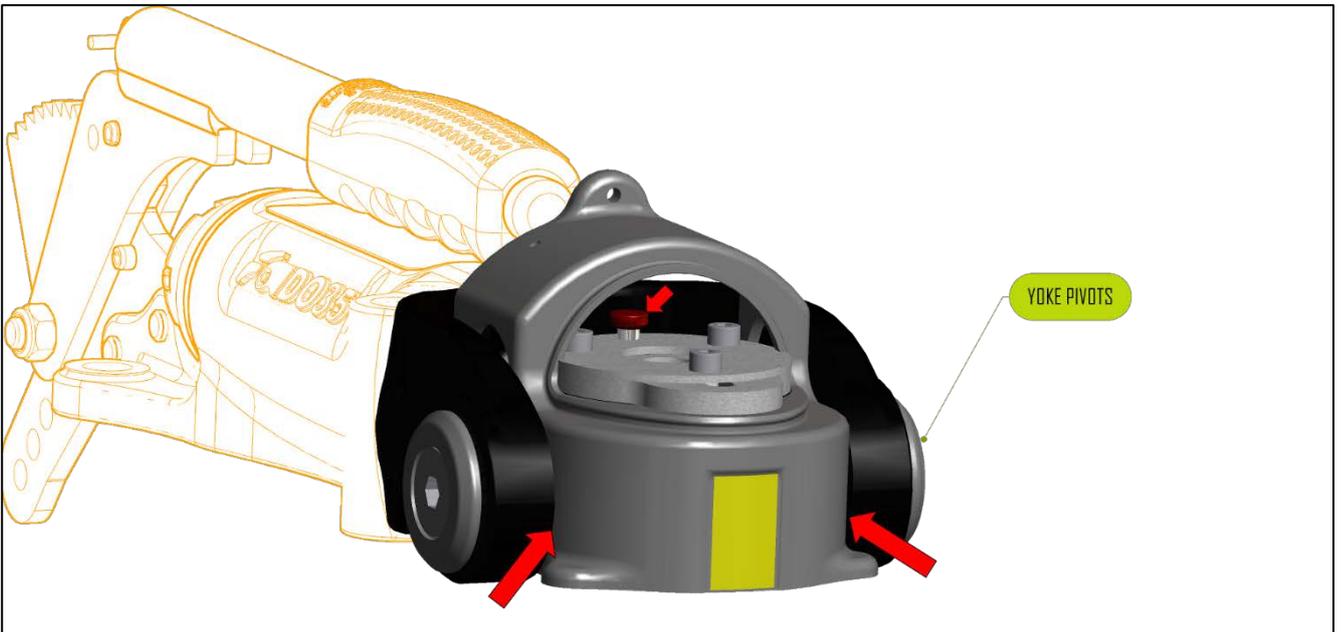
Cutting through the bumper at the recommended points shown above will allow easy removal without affecting the rest of the assembly.

**3.2**



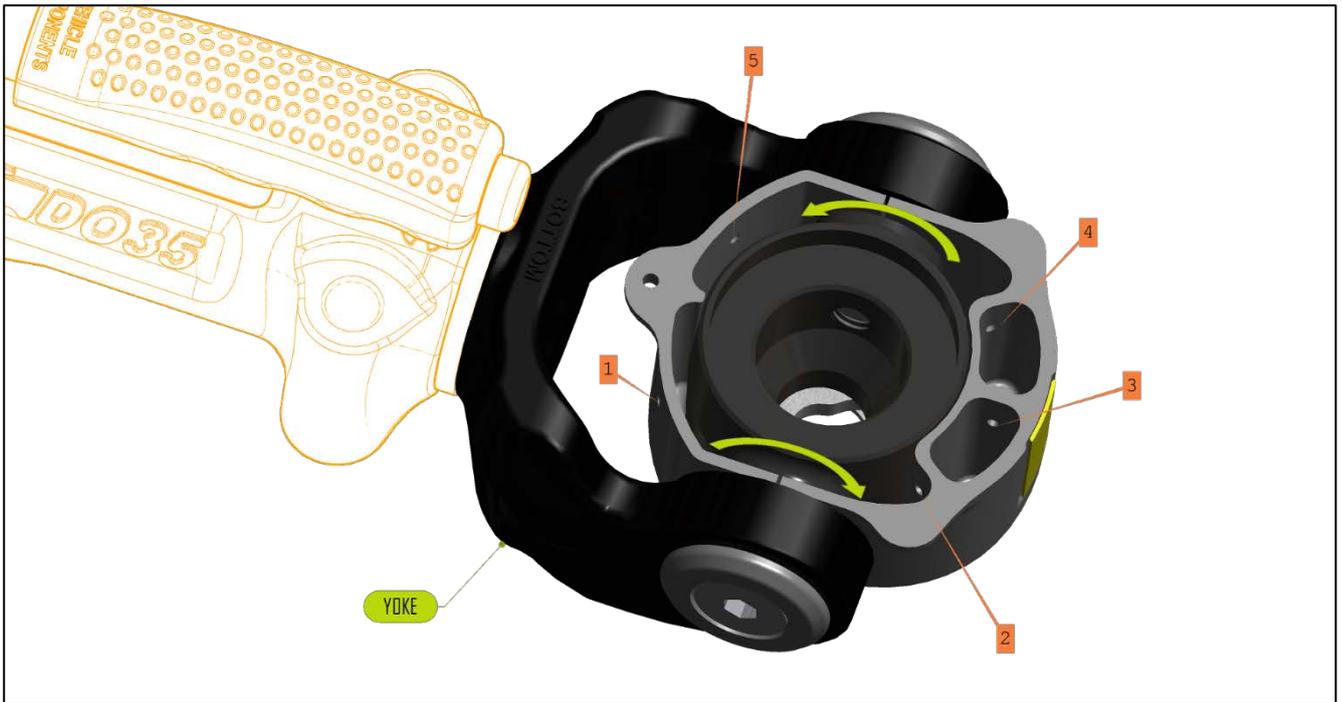
Bend the replacement bump cover as shown.

**3.3**



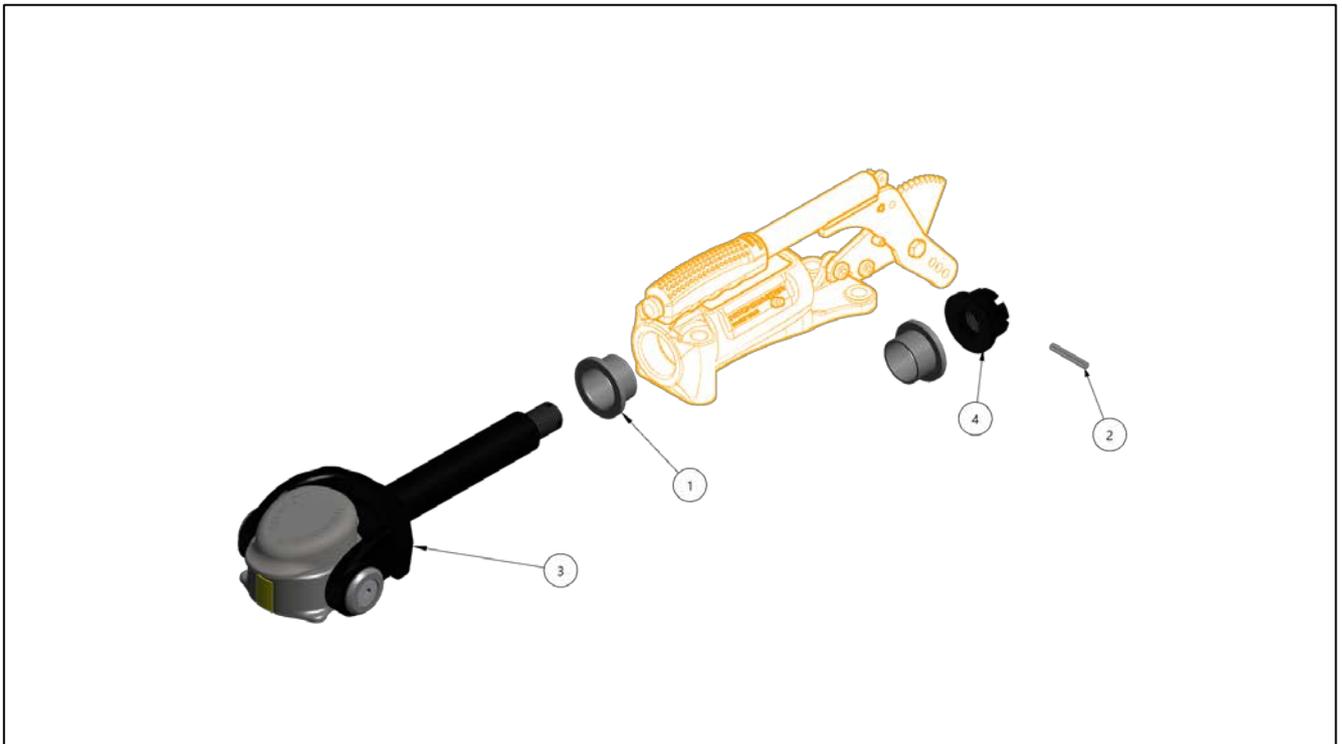
Push down the button assembly and slide over the Bump cover making sure the yoke pivots holes are over the yoke pivots.

**3.4**



Flip over the yoke and feed the zip tie through the numbered holes in numerical order making sure that it goes over the visible side of the yoke pivot in order to hold down the bump cover as shown in the diagram. Pull tight and cut off excess. Test fit dust cover and locking mechanism for any interference.

**4.0 Replacing Yoke and Universal Assembly V3**



**DO35 YOKE and UNIVERSAL ASSEMBLY – 18D-DO35.3-YOKE/UNI-V2-V3**

ITEM	ITEM QTY	DESCRIPTION
1	2	SPINDLE BUSH
2	1	SEL-LOC M6x40
3	1	YOKE AND UNIVERSAL ASSEMBLY
4	1	NUT

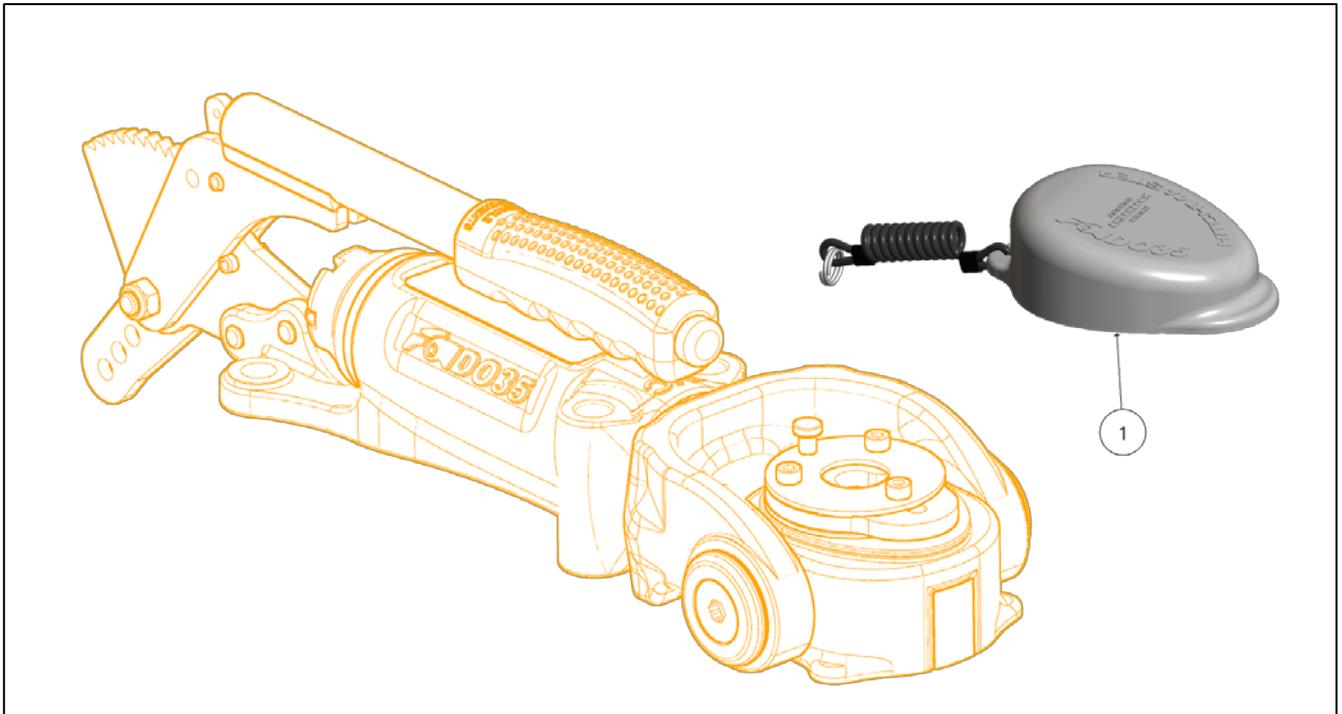
**Tools required**

- 1 ½" Spanner or Adjustable Wrench
- Hammer
- 6mm punch

**Process**

- Refer to section 1.0 Replacing Spindle Bushes for procedure, instead of reusing Yoke and Universal Assembly replace with new one.

**5.0 Replacing Dust Cover V3**



**Dust Cap Complete with Lanyard – 18D-DO35-CAP-V3**

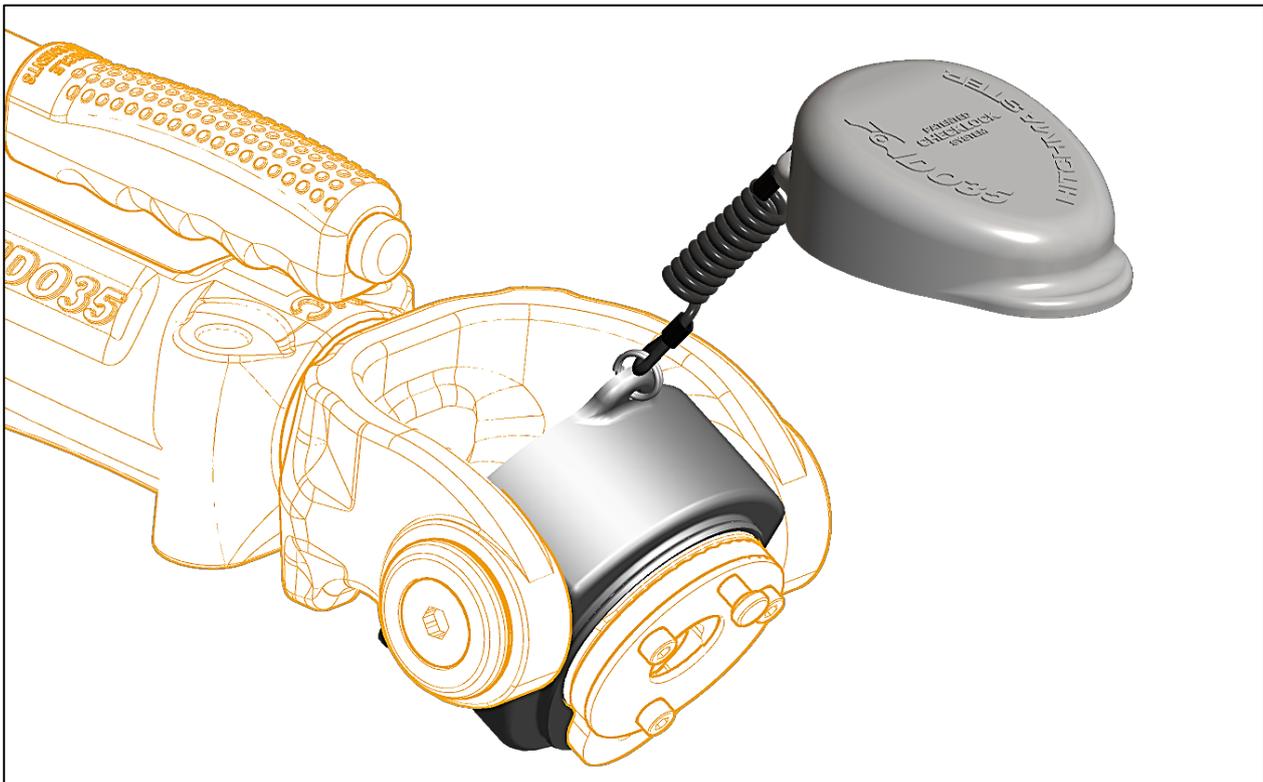
ITEM	ITEM QTY	DESCRIPTION
1	1	DUST COVER AND LANYARD ASSEMBLY

**Tools required**

- Plier Diagonal Cutters or cutting instrument

The dust cover may be replaced independent of any other process if this is all that is necessary.

**10.1**



Remove any of the old dust cap and lanyard from the bumper cover, assemble split ring onto bumper through the lanyard hole.