

## Modification Guide for Stock Spring Perches to adapt to Luxe Steer.

### 240 Offset Spherical Strut Mounts (Luxe Steer for Stock Perches)

- (1) B Side Mount
- (4) 8mm Hex Bolts
- (2) 8mm Flathead Countersunk Bolts
- (2) Split Lock Washers
- (1) Drill
- (2) SKF Bearings

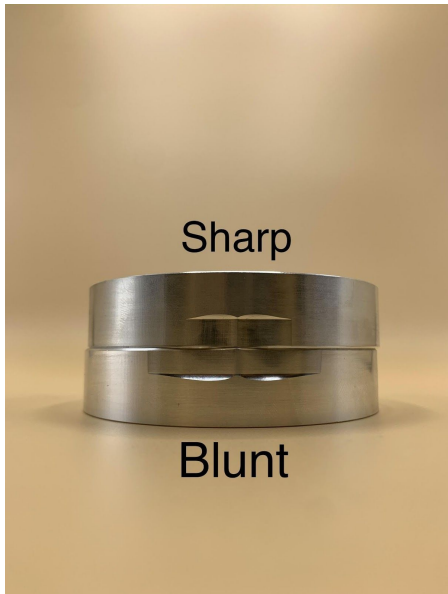
- (1) A Side Mount
- (2) 18mm Bushings
- (8) 6mm Bolts
- (2) Lux Adapter Mounts
- (1) Punch
- (2) BNE Dynamics Retainer





### Perch Modification

- Once separated from the strut, set your stock spring perch on your designated workspace.
- Remove your new Kaplhenke Lux Steer Adapter from the box.
- The Lux Steer Adapter, pictured below, has two indicators for the different mounting positions. (A sharp line and a blunt line.)



### Tools

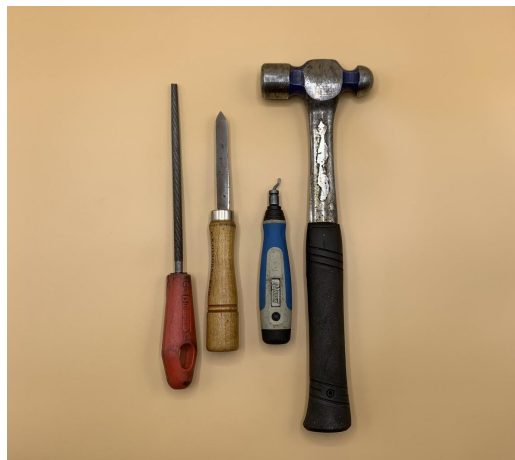
#### Provided tools

- Drill
- Punch



#### Required

- Hammer
- file/s
- Deburring tools
- Drill
- Tools to remove material from the center of the spring perch such as Dremel, hole saw, die grinder, etc.
- Measuring devices such a small ruler
- T30 torques bit
- Marking devices such as a marker, pencil, or scribe.



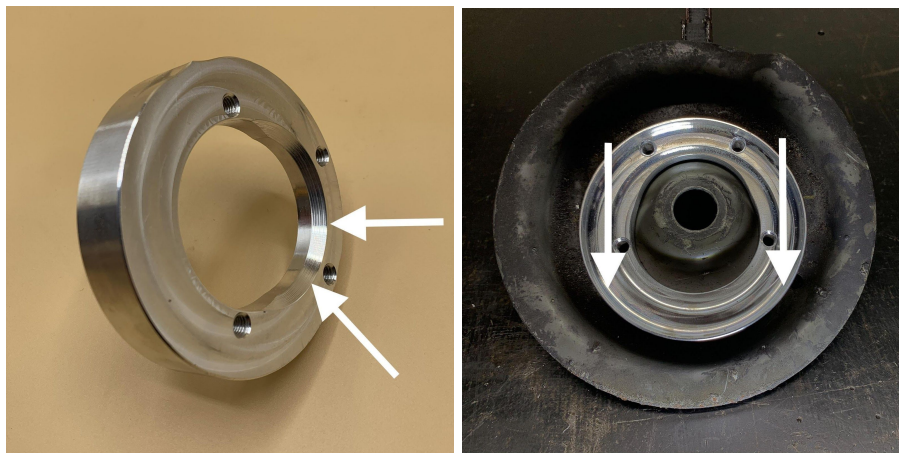
The modification instructions change for the driver and passenger side, use the corresponding guide referenced below.

DRIVER (LHD Vehicles)

The driver side perch is pictured below, along with the offset lux steer mount. The driver side perch is typically grey and is distinguishable by its singular drain hole.



1. Push the smaller diameter recess integrated into the mount into the stock cup on the spring perch until it seats. (Ensure that the adapter is flat and not raised on the fillet)



2. Clock the mount so that the blunt line (pictured below) is aligned with the singular drain hole (Ensure that the mount is flat and not raised on the fillet)



3. Align the supplied center punch into one of the four holes



4. While holding the mount position, use a hammer to strike the center punch and create a recess.



5. Remove the mount from the perch  
(recess is shown below)



6. Use the supplied drill bit to create a hole centered on the indentation created with the center punch.



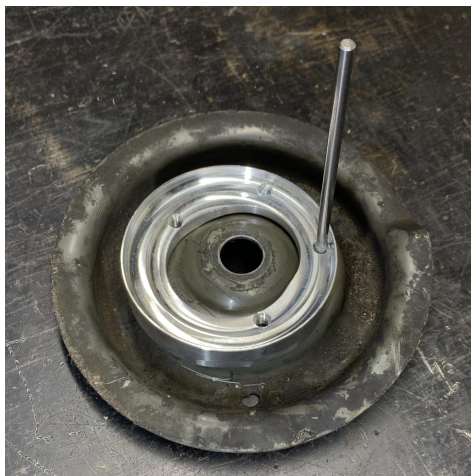
Make sure to remove any burrs created on the perch's back and front side by using a file, deburring tool, or sandpaper. (Optional, Drill with appropriate size countersink)



7. Re-align the mount, repeating step 2.
8. Install one of the supplied 6mm screws to secure the perch in place using the hole created in step 6. Be careful not to Over-tighten, as it will cause the adapter to lift up and be out of alignment.



9. Use the supplied center punch once again to create indentations using the other three holes. (Ensure that the adapter does not move when using the center punch and it stays flat against the stock perch surface.)



10. Remove the 6mm bolt, and the adapter then repeat step 6 for the other three indentations.

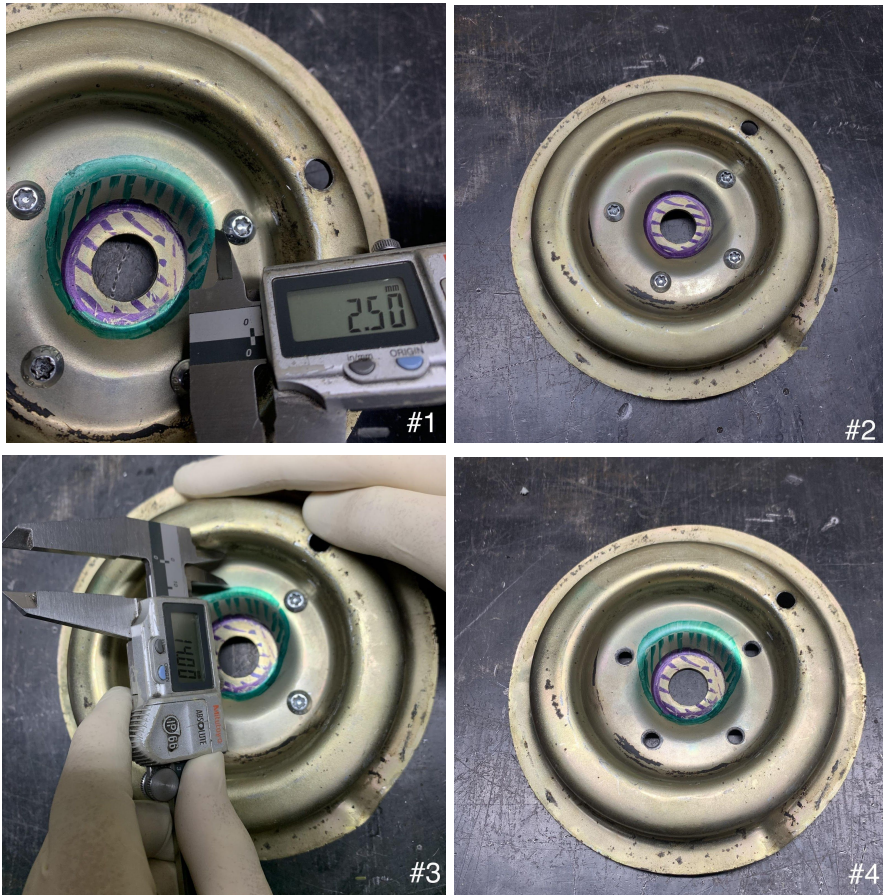




11. Bolt the adapter to the newly created and deburred holes.



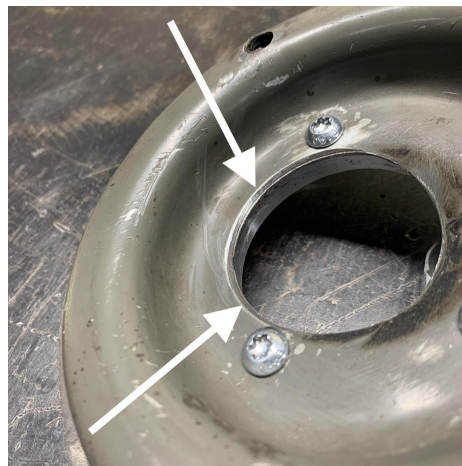
12. Use a sharpie, scribe, or other marking utensil to create a reference line for clearance. This line will follow the mount's contour on the upper side but is bounded by the enlarged (radius) section of the spring perch. You can remove the center of the perch with a 1-inch hole saw using a drill (highlighted with purple, Figure #2.) Using a measuring device, make marks by measuring as described in figures 1 and 3. Connect your points or dots to create the shape similar to what is shown below in Figure 4.



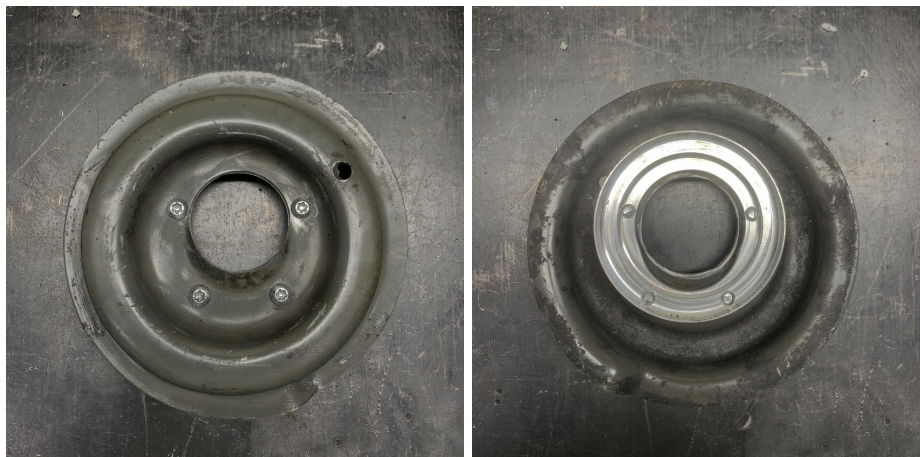
13. Use a die grinder, file or hole saw to enlarge the center opening to the previously drawn scribe line. You can use the Offset Top Mount as a guide to help you fine-tune the amount of material you will need to remove. It is a requirement to have an unimpeded sight of the outer diameter of the boss pointed at in the image below. Verify by spinning the stock perch on the Lux Bearing. However, be extremely cautious as the bearing can come apart if not pulled evenly and carefully. (This will provide you with max clearance necessary.)



14. Lastly, Incorporate an angle roughly 45 degrees in the edge pointed at below. Sharp edges and burrs will decrease the life of your bump stop. (It's critical that all the edges are rounded and deburred.)

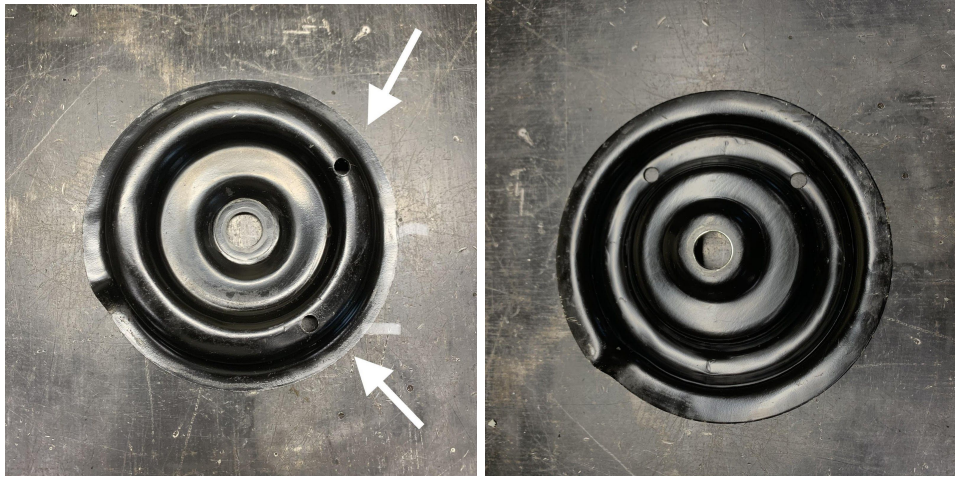


15. The final product should result as the images below.

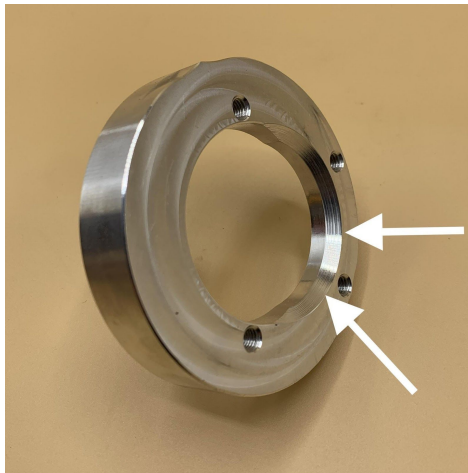


## PASSENGER (LHD Vehicles)

1. The stock perch is pictured below. The stock perch is typically BLACK, and is distinguishable by its two drain holes.



2. Push the smaller diameter recess integrated into the adapter mount into the stock cup on the spring perch until it seats firmly, flat, and without movement.  
(Ensure that the mount is flat and not raised on the fillet)



3. Rotate the Adapter mount so that the sharp line notch (pictured below) is aligned with the front drain hole opposite of the raised lip, which stops the spring. Push the adapter mount until the fillet sits nicely against the stock mount without any lift.  
(Ensure that the mount is flat and not raised on the fillet)

4. Align the supplied center punch into one of the four holes, keeping the adapter mount flush against the stock spring perch.



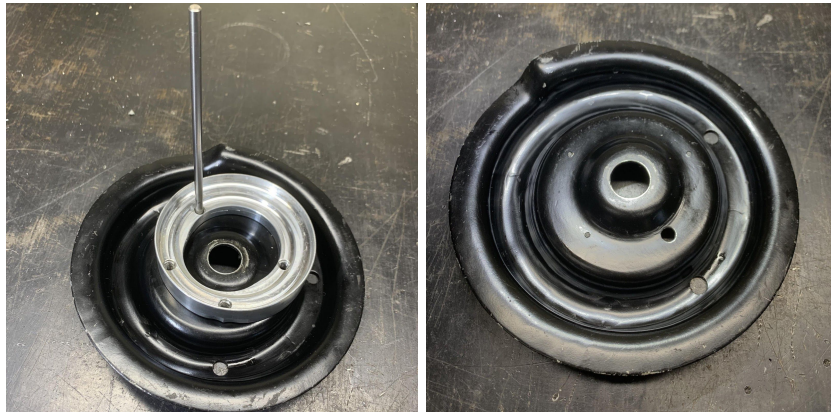
5. While holding the adapter mount position, use a hammer to strike the center punch and create a recess.
6. Use the supplied drill bit to create a hole centered on the indentation created with the center punch



Make sure to remove any burrs created on both sides of the perch by using a file, deburring tool, or sand paper. (Optional, Drill with appropriate size countersink)



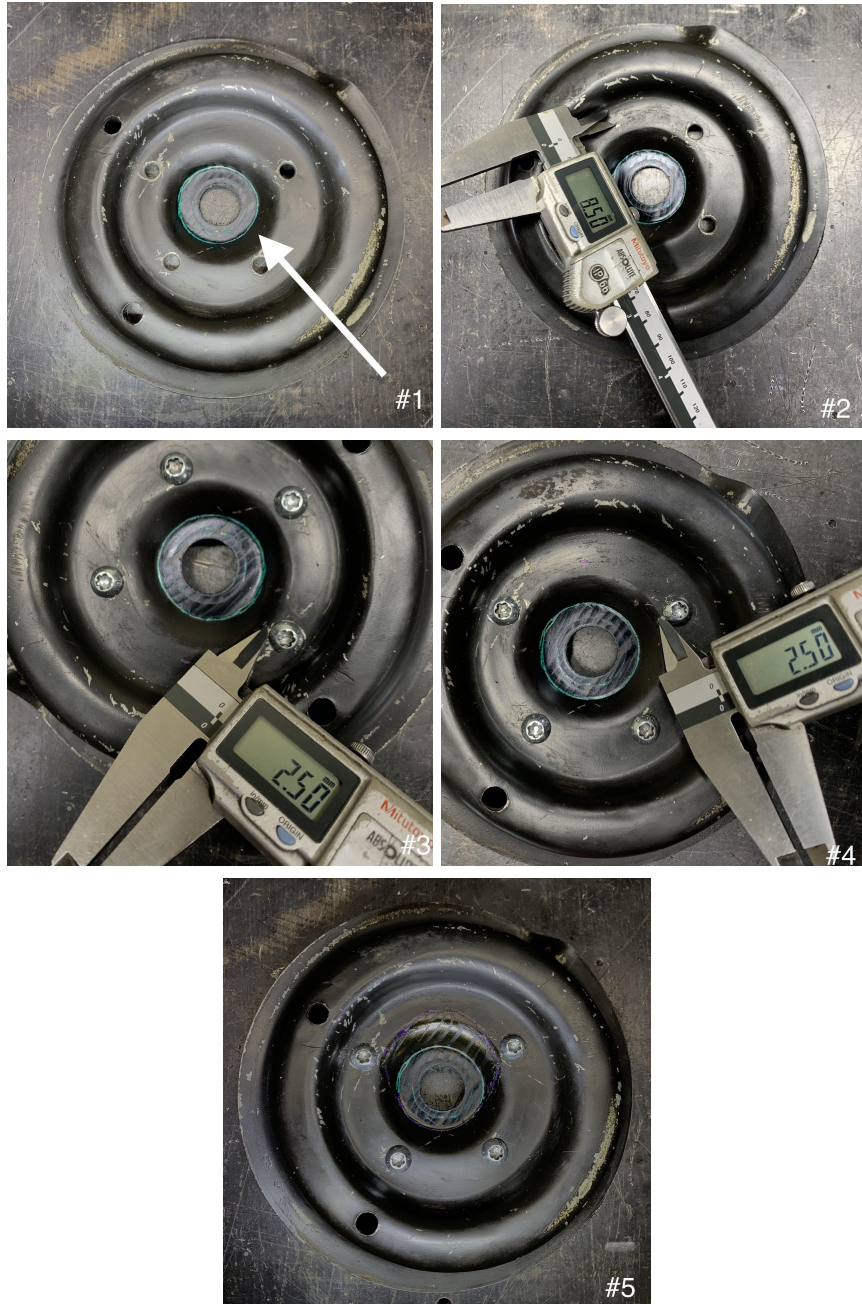
7. Re-align the mount, repeating steps 2 and 3
8. Screw in one of the supplied sheet metal screws into the hole created in step 6  
Do not Over-tighten!!!
9. Use the supplied center punch to create indentations in the other three holes  
(Ensure that the adapter mount orientation is correct as described in step 3 and it remains flat when hit.)



10. Repeat step 6 for the other three indentations.



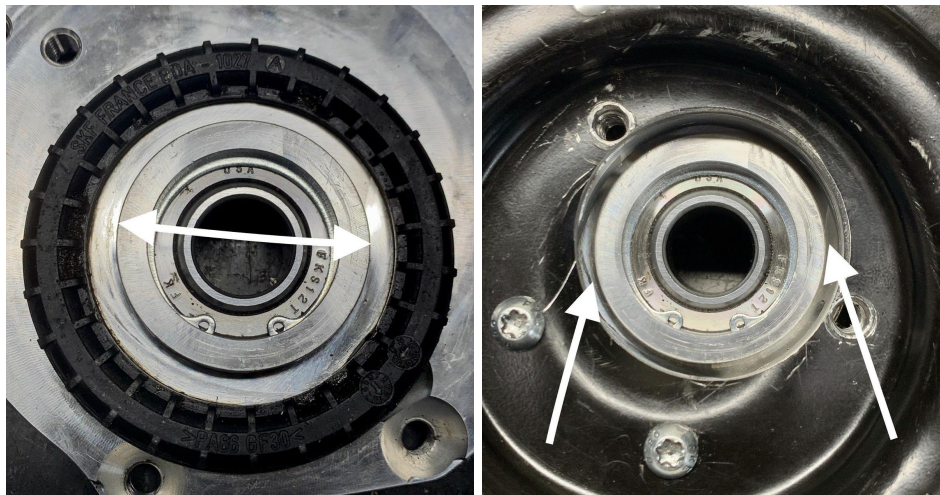
11. Use a sharpie, scribe, or another marking tool to create a reference line for clearance. This line will follow the contour of the mount on the upper side, but is bounded by the enlarged (radius) section of the spring perch. The center of the perch can be removed with a 1 inch hole saw using a drill. (Figure #1) Using a ruler or any measuring device, measure 8.50mm (as shown in Figure #2) and make a mark. Measure about 2-3mm from the head of the bolts that are furthest apart and mark two extra points. (Figures #3&4) Then, you can then connect your marks to create the shape shown. (Figure #5)



After cutting, grinding, or sanding, your stock perch should resemble the images shown below.



12. Using a die grinder, file, or hole saw to enlarge the center opening you can use the 240 Top Mount as a guide. Enlarge the opening until you are able to see the lines pointed at below.



13. After verifying the stock perch clears, it's critical that you chamfer round the following edge shown in the following pictures. This will extend the life of your bump stop.





Final Product should resemble the images shown below.



COMPLETE!