

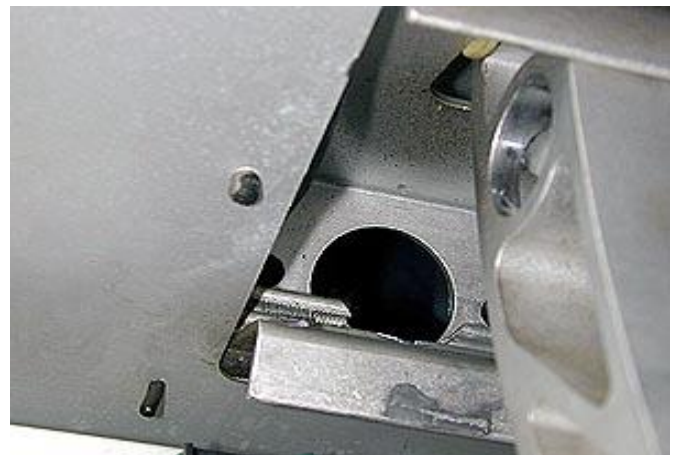
CLUTCH TRUNION FITTING INSTRUCTIONS

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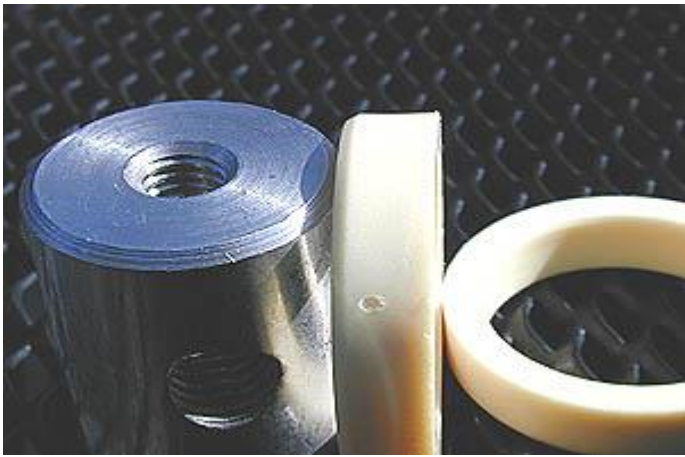
The left picture above shows the old black trunion. The problem with this part is wear which will occur after a while. If you feel the pedal vibrating when you gently release your foot, it's due for replacement... The system is quite simple; the trunion is in the pedal, which holds a pushrod which in turn operates the clutch master cylinder.

To remove the old trunion, you will have to release the grub screw which is in the centre of the trunion (below left picture). You will now be able to freely move the pushrod in the trunion. Then release the two bolts (inside) that are holding the clutch cylinder in place. When released, you can put the cylinder aside to create some room to take out the pushrod (above right picture.)



The right picture above shows the empty clutch pedal and hole where the clutch cylinder used to reside...

Now what's the difference between the old kit and the new one? Will the same problem return? Probably not! Below pictures show the new (left) and the old (black) and new kit including the pushrod. As you can see, the old trunion is one solid piece of Zylan coated aluminium. The new one uses synthetic bushes to move which will not wear as the old material did.



The two synthetic bushes have to be pressed into the pedal bore. Easier said than done!
Please notice that the bushes have two sides (the chamfered side needs to be pushed in the pedal!)

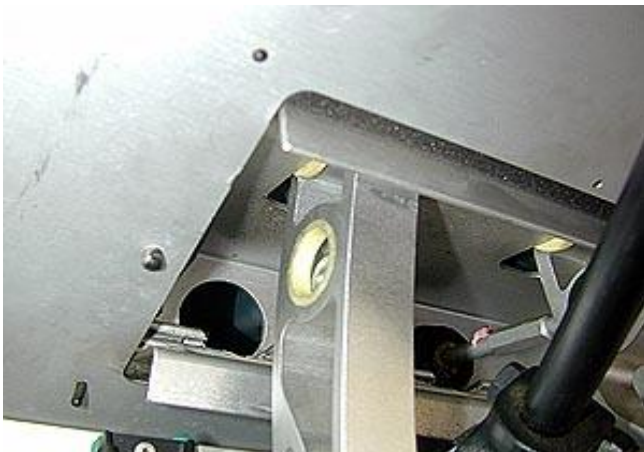
First trials by hand were pretty unsuccessful. Too much force needed to push the bushes in the holes... So, be creative and make some sort of press fit construction as you can see in below pictures. As soon as you start turning the bolts, you will press the bushes in place. Needs a bit practice, but they'll eventually pop in place!



The picture below at the left hand side displays the pedal with the installed bushes..

At the right hand side, the pushrod as well as the clutch cylinder has been refitted. The adjustment procedure to be followed is:

- 1) Put some PermaBond or Loctite on the grub screw and refit it loosely.
- 2) Screw the pushrod into or out of the trunion until the pedal just contacts the pedal box flange (stop).
- 3) Apply 1/2 turn or preload to the pushrod, and tighten the trunion lock screw to 5 lb ft (wrist tight).



When it all fitted together and the tools are away... the

'new' clutch pedal should look as the one at the right..

Personally, I think this is one of the best upgrades I've ever done to the Elise.

An easy moving clutch pedal does feel good!

