



## Bonnet Security Hinge Fittings Tips

### Please read prior to installation.

We recommend that removal and refitting of the bonnet is carried out with two people to reduce the risk of damage to the vehicle bodywork.

We recommend covering the wing tops with a layer of cardboard to prevent damage to the vehicle paintwork immediately prior to refitting the bonnet.

Because of the variations in hinge wear, corrosion, paint thickness and the simple fact that no two Defenders are built alike it may be necessary to modify the new plastic hinge bushes for them to fit into the hinge curl on the bulkhead. A file or belt sander can be used for this job.

We include a single M6 bolt for aligning the two halves of the hinge bush prior to refitting of the bonnet.

The sachet included within this kit contains assembly grease. Use a smear of the grease on the threads of the bolts prior to installing the nuts. This is to prevent the stainless-steel fasteners prematurely tightening/grabbing.

We include 2 x M6 shear nuts within the kit to add to another layer of protection to the installation. The shear nuts can be fitted to one or both of the hinge bolts or you may wish to install them on the hinge fixings on the underside of the bonnet.



**1a & b.** Push down the car aerial. To remove bonnet from the Defender, lift the bonnet to an almost vertical/upright position. With a person at each corner the bonnet will now lift upwards and out of the plastic slotted bushes within the bulkhead hinges. Set the bonnet aside but do not fit the new security hinges to the bonnet just yet.



**2.** Remove the plastic slotted bushes by pushing them out of the end of the curl hinge.



**3.** Take both halves of the new plastic bushes and try pushing them into the curl hinge on the bulkhead. The flat section of the bush goes flat against the bulkhead.

5. You need to get the two bushes into place so that the bolt will travel fully through the bush. If where the flat meets the bulkhead is binding then adjust/lower the level of the 'flat' on the bush as required to allow you to push the bush fully home within the curl hinge and allow the bolt to pass through it.

**It is vital that you do this now rather than try fitting the bolt with weight of the bonnet in one hand!**

6. The bushes are designed to be a snug fit so it may be necessary to tap home the bushes into the hinge curl with a soft hammer or you could use a G-clamp to pull the two halves together.

7. Insert the long bolt through the bush to check for alignment.



8. Offer up the bonnet hinges to ensure the bush fits within the two hinge bracket tabs.

9. Once you are satisfied the bushes are correctly installed, you can now fit the hinges to the bonnet.

**Note that Land Rover doesn't paint the area underneath the bonnet hinges!**

10. Do not fully tighten the fixings on the bonnet hinges yet.



11. Offer the bonnet hinge tabs up to the plastic inserts and insert the M6 security fasteners all the way through the hinges.



12. Smear some of the grease onto the exposed bolt threads and fit the nuts. Alternatively you could use a Loctite thread-lock solution as an additional security measure.



13. Check alignment of the bonnet and that it closes OK. Adjust hinge positioning as required. Tighten the hinge fixings on the underside of the bonnet.

\*The 2 x shear nuts can be fitted to one or both of the bulkhead hinge bolts or you may wish to install them on the main hinge fixings on the underside of the bonnet. The hexagon section of the shear-nut will shear off at a pre-determined torque/force.