

VOLVO S60/V70

(2000-2004)

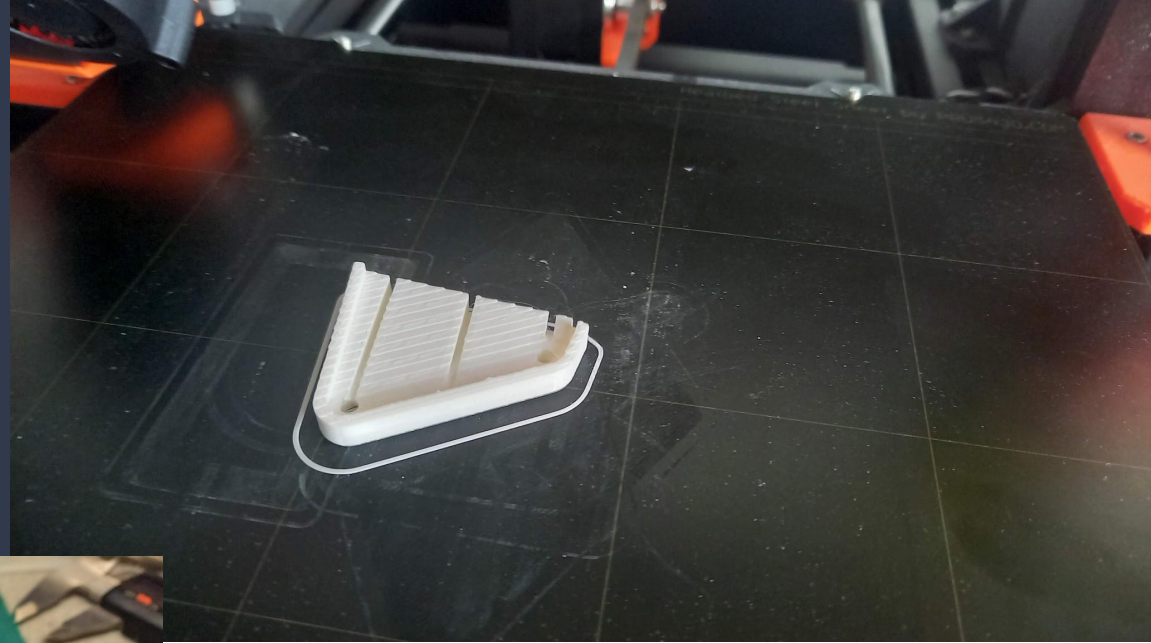
center console cup-holder lid hinge fixing process

Design: Endre Kostyál, Hungary

Remove the center console from the car.
Take it apart.
The original plastic hinges were broke off.
The longer one (left on the picture) has
been glued back with superglue.
The other one is drilled thru D=3mm



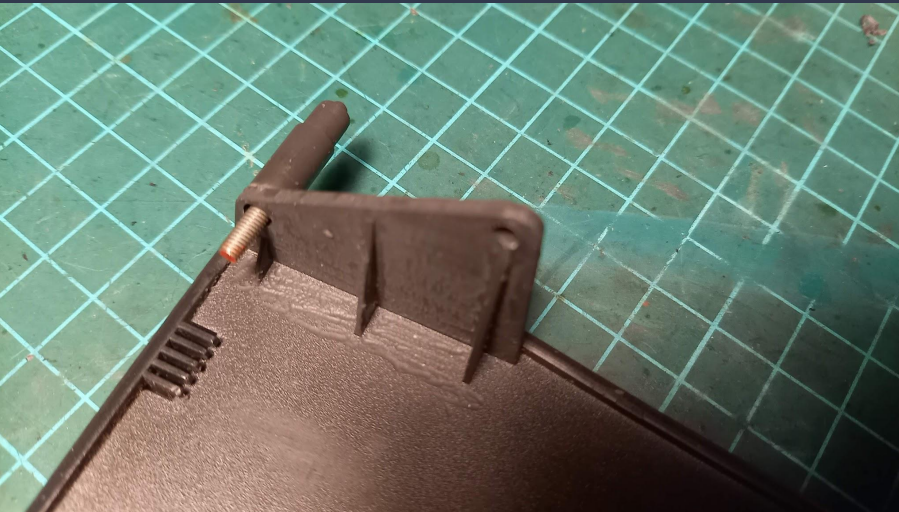
I designed and printed out the two pieces of hinge reinforcement. Left and right are different by size (and mirrored). The white part on the picture is initial test version. For the final I printed it black. The test fit is OK.



Cut a reinforcement piece for the hinge from M3 bolt. 13mm and 19mm is sufficient. Left and right is different.
Finally it will be glued into hole.



Then I made the surface rough for efficient sticking of glue.
The glue I suggest is a two compound epoxy resin based glue.



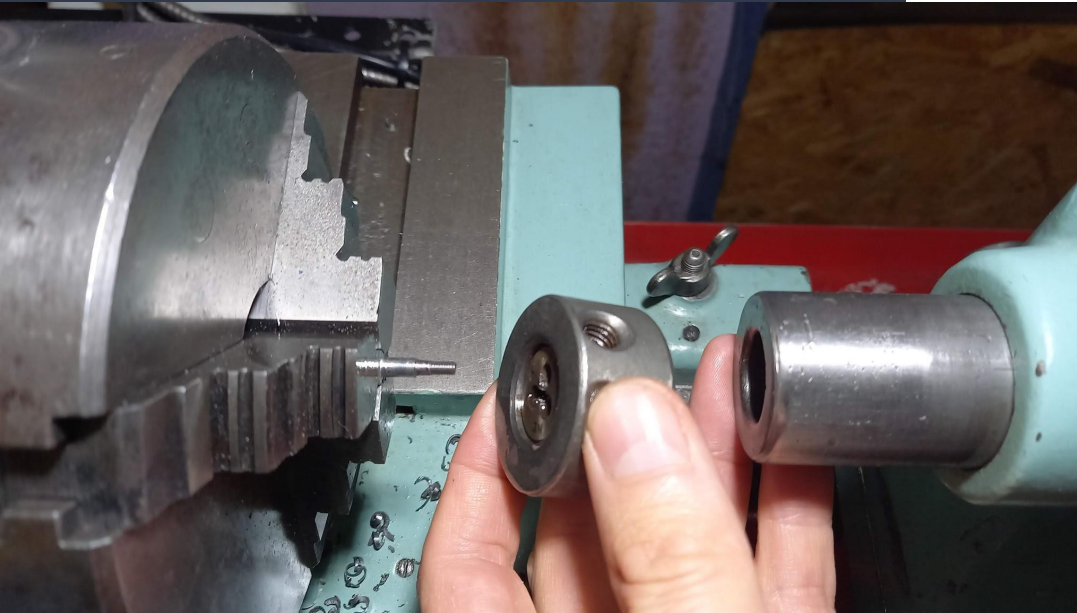
Add glue to the contact surfaces. Both side.
As well as to the stud bolt. Insert the
prepared M3 stud into printed part.
Position the hinge extension to final state.
An M3 nut will be inserted into hex slot.
(sorry missing from the picture)



Two new shafts need to be manufactured.
Raw material is an M4 hex socket screw
partially threaded.
Final total length is 14mm. The d3 step is
6,5-7mm long.



Follow the pictures and use Your imagination how to make the mini shaft, depending on Your machining possibilities.
The final result is a pin bolt with 4mm neck and M3 thread on tip.



Once the glue has cured, it is time to mount the lid back to it's place.
The new shaft bolt is installed from outside, as shown. I used thread locker to make sure it stays.

The refurbished lid is back in service.



Design made by Endre Kostyal, Hungary
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