Volvo 740/940 Rear Spring Stud Repair

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Volvo Maintenance FAQ for 7xx/9xx/90 Cars

Rear Spring Stud Repair. [Mike] I made a mistake while attempting to loosen the upper spring nut on the driver side... Instead of loosening the nut, I tightened it. I didn't realize I was turning the wrong direction until the nut was turning, but it wasn't coming loose. I could see that the nut and bolt are turning together so the threads on the bolt itself were stripped. The nut/bolt now spin freely in both directions and could not be removed. Below is how to gain access by cutting out the nearby sheet metal from inside the trunk

I tried to get the stud out with some vise grips but was unable to make any progress, so I decided to cut into the are from above. I looked in the trunk and found a plug (in the middle of the picture below) that gave me a good view of the nut. With this view, I was better able to locate where I should cut the hole.

I used a 1 3/4 inch hole saw, the picture shows the newly cut hole and the much better view of the nut it provided.

With access, I began to drill out the stud from the top. The stud had a dimpled end which made centering the drill bit easier. After drilling, I was able to punch out the stud using a screwdriver and hammer. When the stud finally came out it looked pretty bad.

The nut itself was stripped of threads, this picture was taken from within the wheel well and shows the smooth inner surface of the nut.

I tried fitting the replacement stud (M10 diameter) in the nut, but it was way too tight. A 3/8 in bolt fit snugly, so I used that instead. I put the bolt in from the top, and fit the nut from the bottom. After tightening things up I yanked laterally on the spring to ensure that there was no movement.

After cleaning up the area I used a piece of rubber and some flexible adhesive to seal the hole.

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