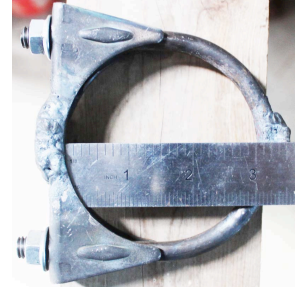


Homemade Prius Gen 2 CV axle puller

Parts I used:

- 1 - 3" U-bolt style exhaust clamp (NAPA 733-5794 or similar)
- 2 - 3/16" x 1" x 3 ft flat steel bars
- *appx 1 ft. - 3/16" x 1-1/4" flat steel bar
- *4 - 1/4" x 3/4" bolts with wing nuts
- *1 - 5/8" wide washer
- *other options may be possible - see instructions

1. Assemble the clamp and adjust its vertical opening to 3". Cut off any excess material from the threaded ends, leaving only about 2 threads past the end of the nuts. In my case, I removed about 1/2". This does not seem like much, but you will appreciate the extra clearance when you are installing the puller. Be sure to leave the nuts on when you cut and file the ends, so that they can chase the threads when you remove them.



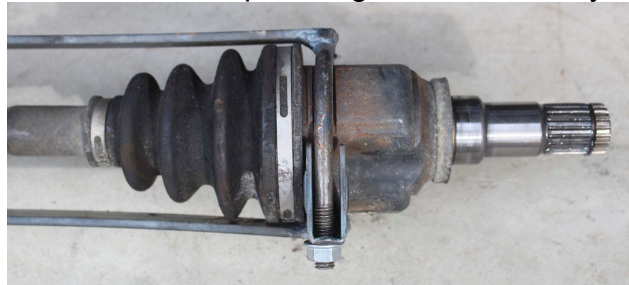
2. Disassemble the clamp. Weld the top of the curve of the U-bolt perpendicular to the end of one of the 1" steel bars, and the center of the saddle perpendicular to the end of the other 1" bar. When they are both tacked in place, make sure that when they are assembled, the two bars are perfectly parallel before making the final welds.



3. Build a bridge between the two bars at the outboard end that has the same width as the clamp. I bent the 1-1/4" bar into a U shape, welded two of the bolts into each of the parallel sides, and drilled a 5/8" hole in the center of the perpendicular section to accommodate a slide hammer. Other options are likely possible. Something as simple as a block of wood might work. Using a large hammer might work as well, but the bars would need to be extended to get a good swing, especially on the passenger side. I have not tested any of these options, so you are on your own.



4. Installing the puller is the only step that needs to be done from under the car. Install the U-bolt onto the inner housing first. The fit is very tight on the driver's side, but it works to start it sideways and then rotate it with the shaft until the threads face downward. There is more clearance on the passenger side. Then, install the saddle, slide the clamp in or out until the U-bolt engages the machined grooves in the inner housing, and bolt the two parts together to securely capture the housing.



5. Install the bridge to connect the two bars at the outboard end and then use the slide hammer or other hammer to pop out the shaft. Both of the shafts on my 2007 Prius came out easily with this strategy.