PTU, RDU, and Transmission Drain Plug Kit

These instructions can be found online at: https://www.fortheworkshop.com/?product=ptu-rdu-and-transmission-drain-plug-kit

If you've already drilled and tapped your RDU and PTU for 1/8 NPT, these can be installed on your next fluid exchange. If not, drilling and tapping will be required, see below. Transmission already has a drain plug that is 1/8 NPT, so you simply need to swap this one out.

Heat shrink is 4:1 adhesive-backed 0.95″ I.D. and shrinks down to 0.24″ I.D. Supplied length is enough for 4 pieces of equal length, but only 3 are needed. Cut to whatever length works best for you, but 3/4″ as a minimum length will serve the purpose and will provide for an additional piece.

Fittings are pre-treated with PTFE sealant tape (anti-seize PTFE tape for the SS fittings and standard PTFE tape for the galvanized version) so it comes ready to install.

316 Stainless Steel Kit: Ideal for corrosive environments such as coastal regions or places that use road salts in the winter.

Galvanized Kit: Has mild corrosion resistance and used in environments where the above conditions aren't typically present. A cost-effective kit.

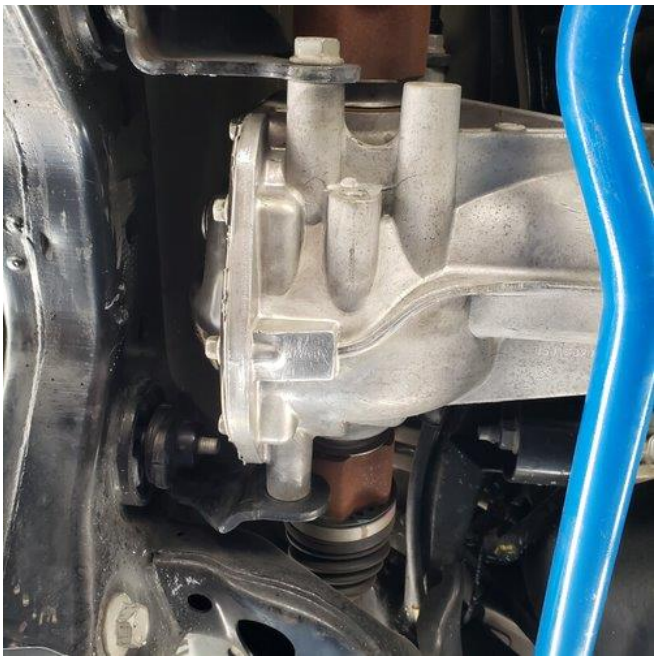
General Instructions for drilling and tapping:
Use a center punch (or nail) to mark the location of where you want the hole drilled. This will aid in keeping the drill bit from "walking" as you start the hole. "Measure twice, cut once" is the motto here. You will be tapping a 1/8-27 NPT fitting. The drill bit used is technically called a size "Q", but those are hard to find outside of a machine shop store. The closest fractional drill bit size is a 21/64″, which can be found in many hardware stores and work great. If you are so inclined, you can drill small holes incrementally larger until you get to that size if you want to be extra careful, but you should be fine if you went straight to it.

Transmission:
The transmission already has a 1/8 NPT fitting, so simply remove and replace at your next fluid change.

RDU:
Smooth the location of the plug. Using an angle grinder with flap-wheel works best here.

Before:

After:



Then tap for 1/8-27 NPT:

Install NPT-to-Flare fitting adapter:

Install the cap, finger tight required only:

Cap is very tight with an o-ring seal, but for extra protection, the adhesive heat shrink is used to keep it from spinning off over time. Place trimmed piece of provided heat shrink over the fitting. Ensure it is covering the knurled part of the cap and extends onto the hex-face of the fitting. Using something like a long screwdriver may aid in holding it in place while using a heat gun to avoid burning your hand while the tubing shrinks. Simply cut with a razor and peel off when time to do the service:

PTU:
No need to smooth any portion of the case, however, the location of the drain is crucial.

Here is a photo of an open PTU to illustrate where you want to drill the hole and why. The area is circled and is placed there to avoid the gears inside the case. It is also a very thick portion of the case:

Finished installation. Just install heatshrink.