



McGAUGHYS
S U S P E N S I O N P A R T S

559-226-8196
4603 E. VINE AVE.
FRESNO, CA 93725
www.mcgaughys.com

**AISIN TRANSMISSION
DODGE RAM RE-CLOCKING RING INSTRUCTIONS
2014-24 2500 / 2013-24 3500 (for 6", 8", & 10")**



1. Hardware Bag w/ RTV
2. Reclocking Ring
3. Transmssion Output Shaft Seal
4. Output Shaft Billet Adaptor



1. Start by removing the four bolts on the front drive line. Then open the clip to remove the front driveline from vehicle. (pic 1) Next, remove the four bolts on the rear drive line and remove drive line from vehicle.
2. Then, remove all clips and plugs from transfer case and def tank crossmember. (pics 2-10)



2. Disconnect solenoid wire clip on top of transfer case



3. Disconnect solenoid wire clip on top of transfer case (same wire as pic 2, different clip)



4. Remove access cover to get to def sending unit



5. Disconnect the three plugs on the def sending unit (plug 1)



6. Plug 2



7. Plug 3



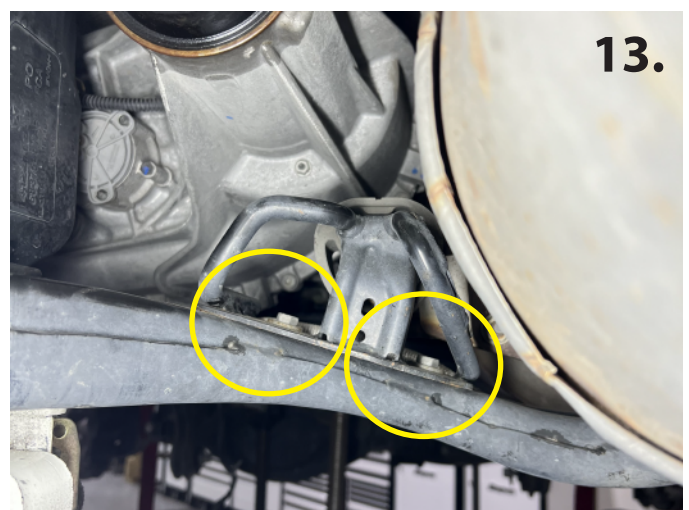
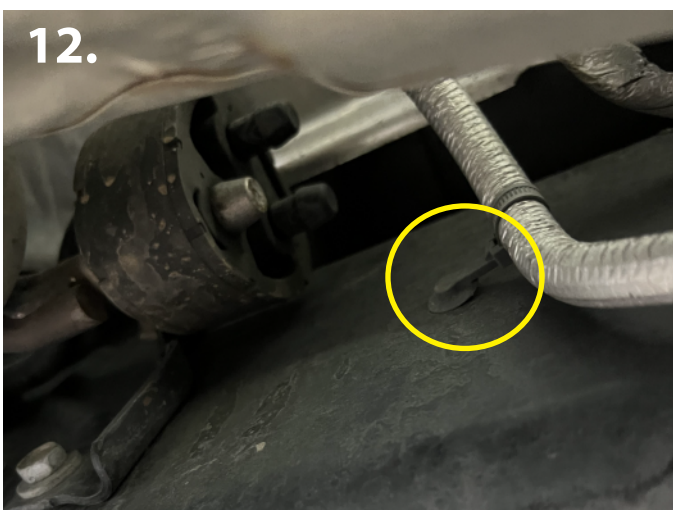
Disconnect fill line from def tank



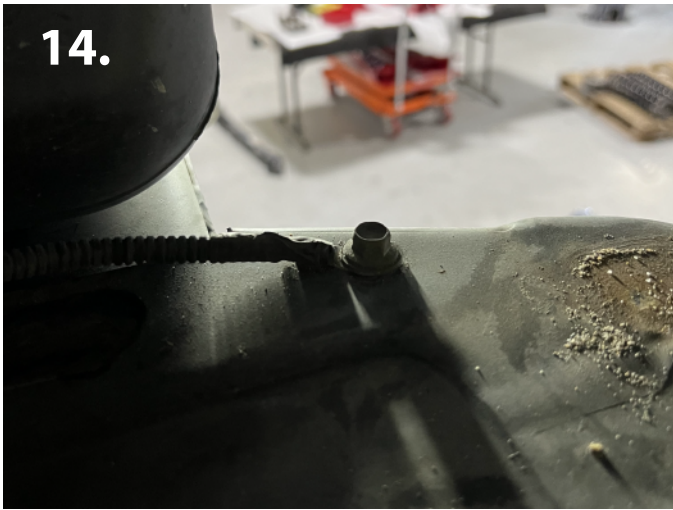
Disconnect vent line from def tank



Remove clip for sensor plug on def tank strap



3. Remove two bolts from def injector. And unplug clip on frame of vehicle. (pics 11-12)
4. Remove two bolts from exhaust hanger on the def crossmember. (pic 13)



5. Remove single ground bolt from def crossmember. (pic14)

6. Remove single bolt to release the def module from the def tank. (pics 15-16)



7. Now drop the def crossmember. Start by properly supporting the def tank and crossmember. Next, remove the six bolts holding the crossmember to the frame. (pic 17)

8. Then remove the single bolt holding the def tank to the crossmember. (pic 18)



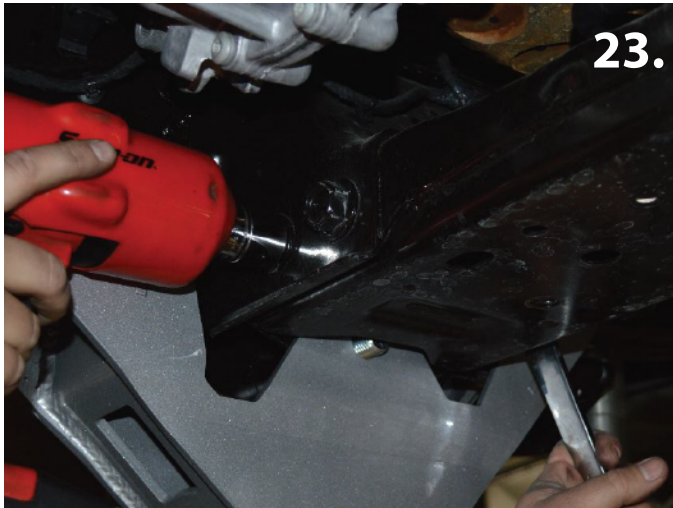
9. Now, unplug the wiring harness on the solenoid located on the transfer case. (pic 19)

10. You can now remove the def tank and crossmember from the vehicle.

11. Now properly secure the transercase. Next, remove the 8 bolts from the transfer case. (pics 20-21)

Remove transfer case from vehicle and set aside.

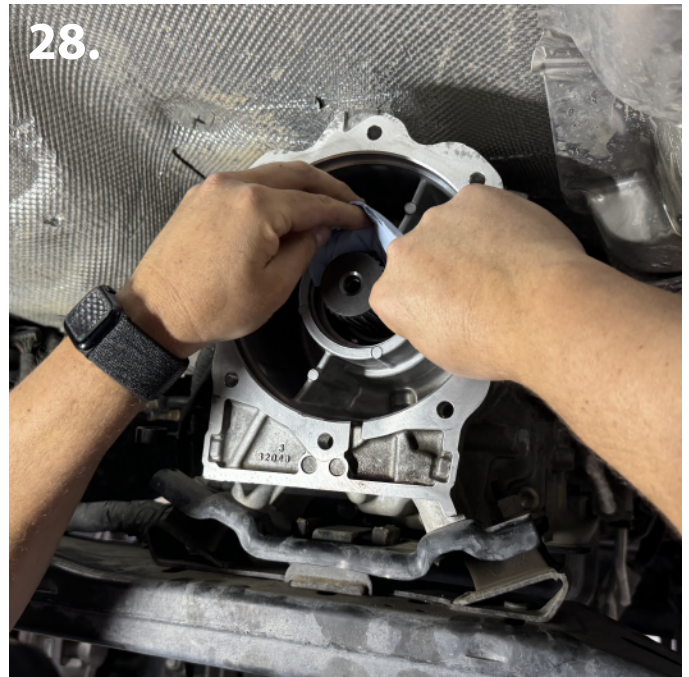
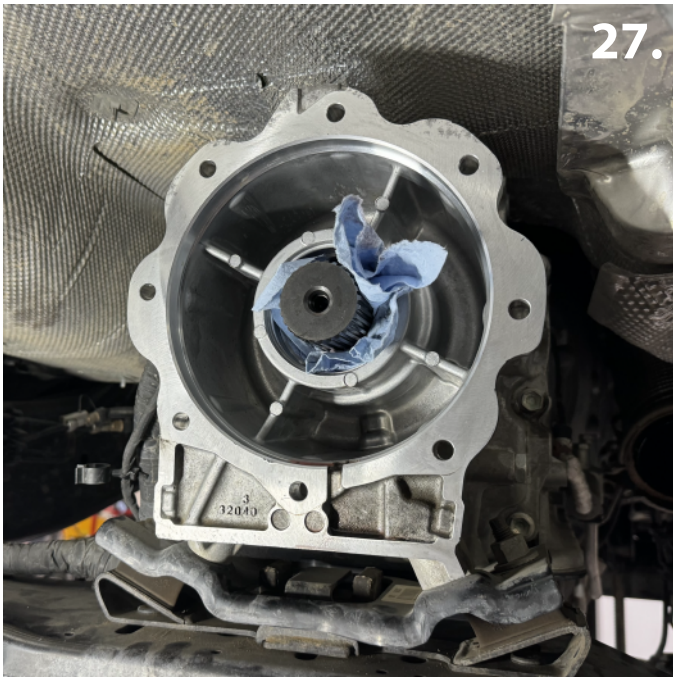




12. Next, properly support the transmission. Remove three bolts from the bottom of the transmission crossmember. (pic 22) Then remove two bolts on each side of crossmember. (pic 23) Now remove the crossmember from the vehicle. (pic 24)



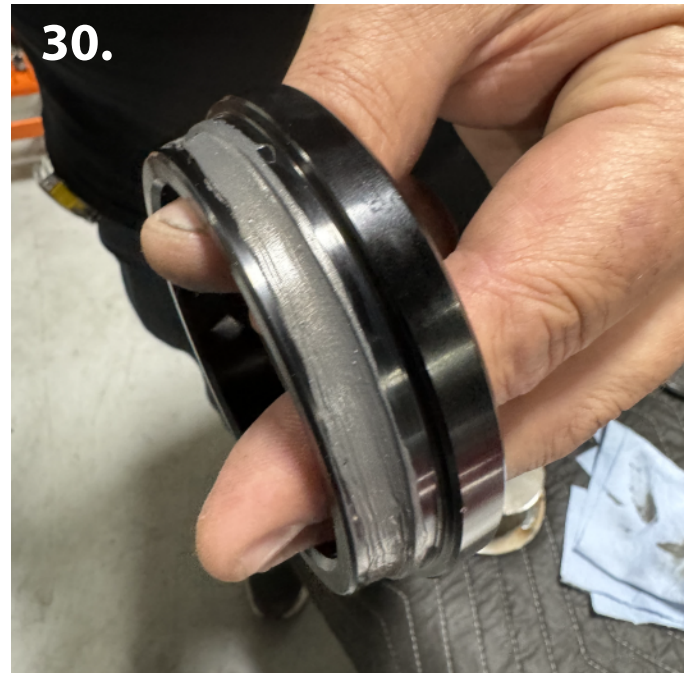
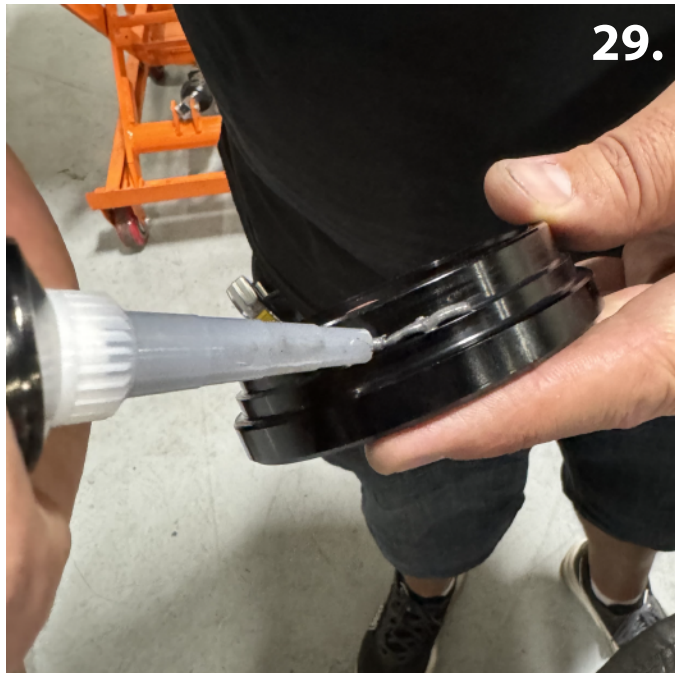
13. You can now install the new provide transmission crossmember along with the provided transmission shim. Use three factory bolts and the one new provided bolt to install. Be sure to install the provided wire loom relocation bracket as well. (pics 25-26)



14. We recommend installing the seal and adaptor first. This will give the RTV silicon additional time to dry.

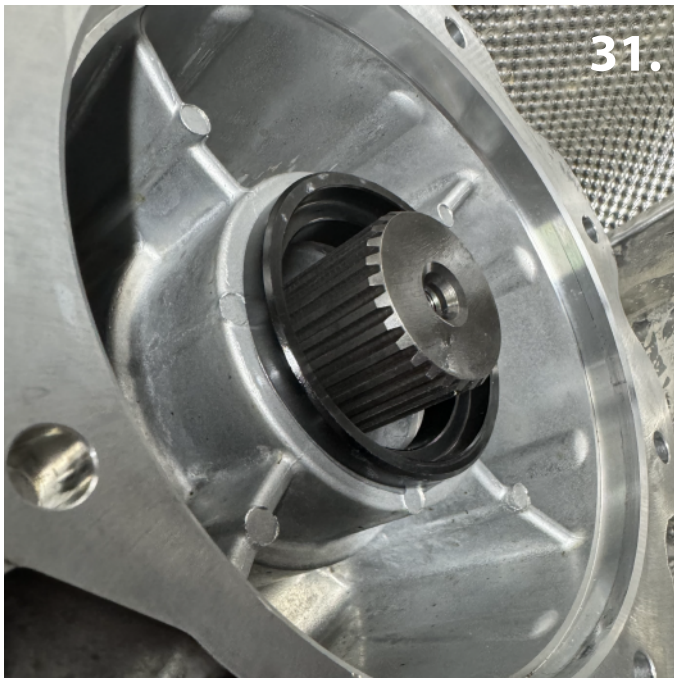
15. Remove the factory output shaft seal and discard.

16. Next, make sure all oil has been cleaned from transmission output shaft area. Must be clean and dry. You can use brake cleaner on a rag to get inside. (pics 27-28) Again, must be 100% clean and dry.

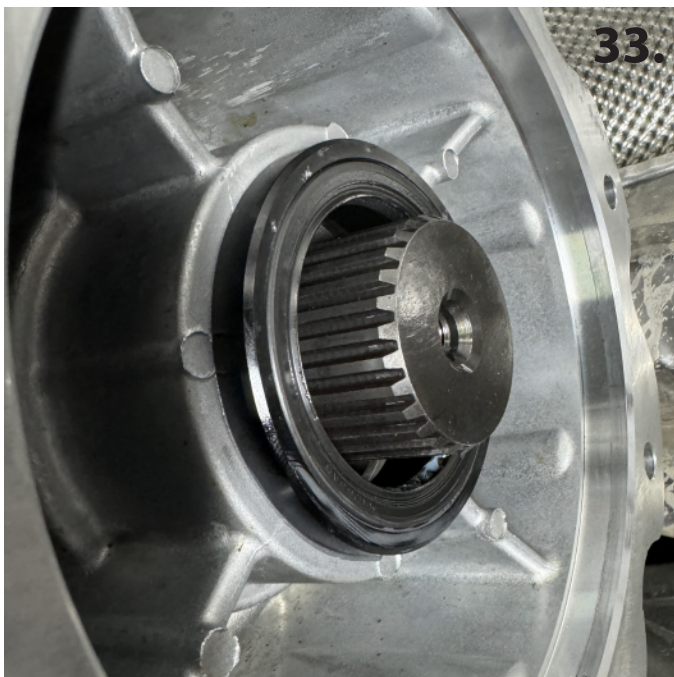


17. Apply a very thin layer of the supplied RTV silicon on the supplied billet seal adaptor. (pic 29)

18. Use your fingers to spread the RTV on the entire surface of billet adaptor. (pic 30)

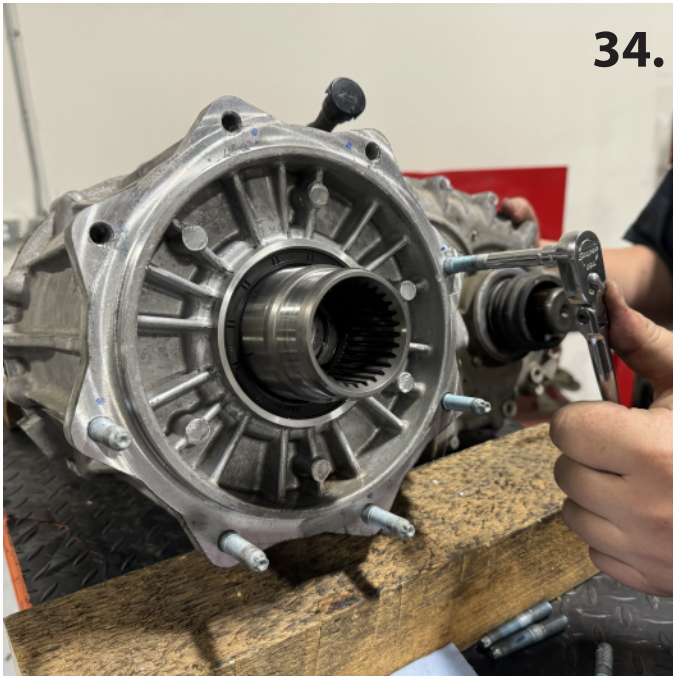


19. Using the proper tools, install billet adaptor into transmission. (pics31-32)



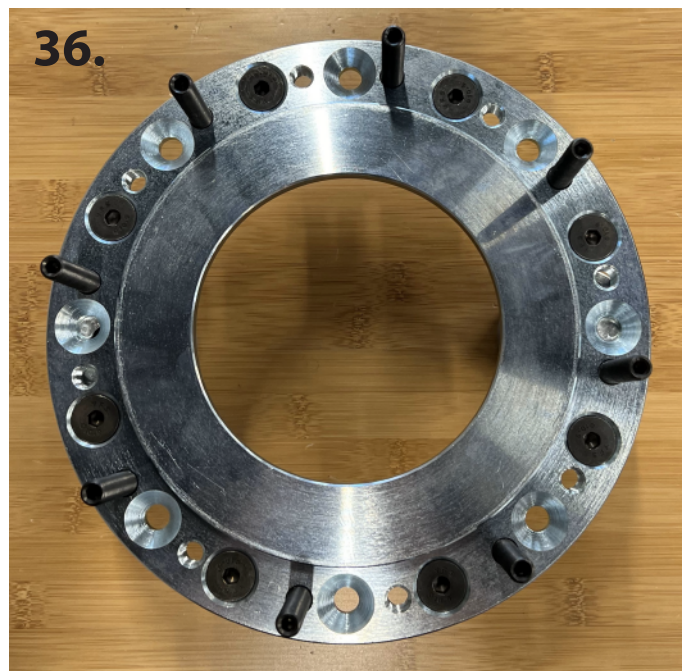
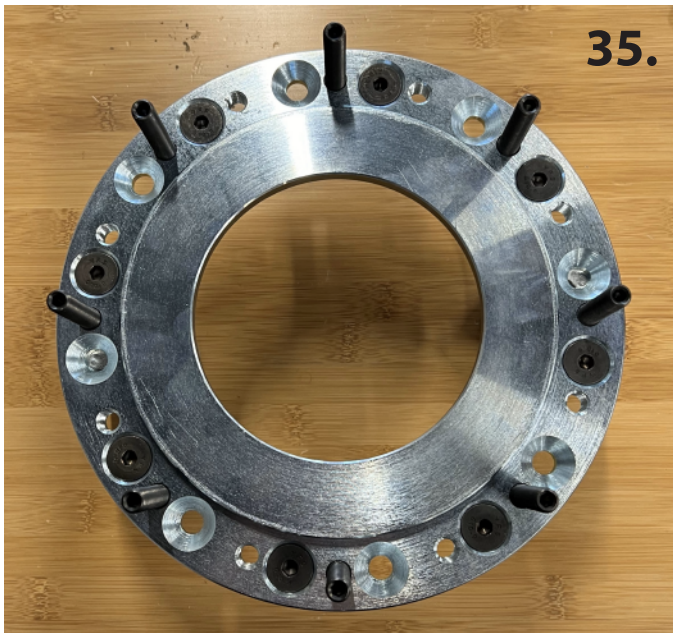
20. Now install the provided seal into the installed billet seal adaptor. Be sure to apply a small amount of RTV on the seal and install using the proper tools. Clean off any excess RTV around seal and adaptor. (pic 33)

We recommend you let the RTV set for 24 hours before driving the vehicle. This is so the silicon can dry and seal completely.



21. Remove the 8 factory studs from the transfer case and discard. (pic 34)

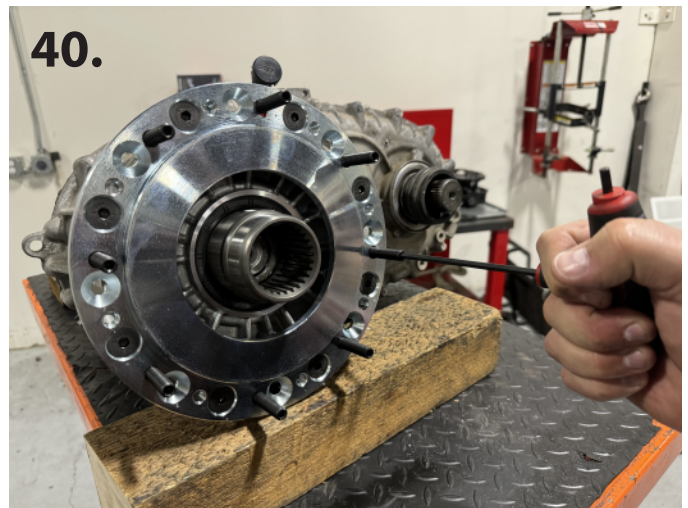
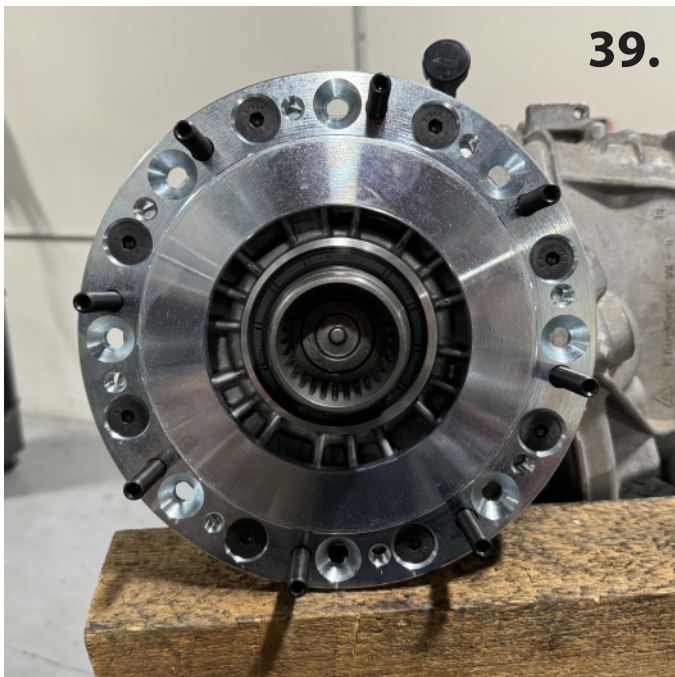
Once all studs have been removed. Blow out the threads to make sure no debris is inside. Then, thoroughly clean the surface of the transfer case.



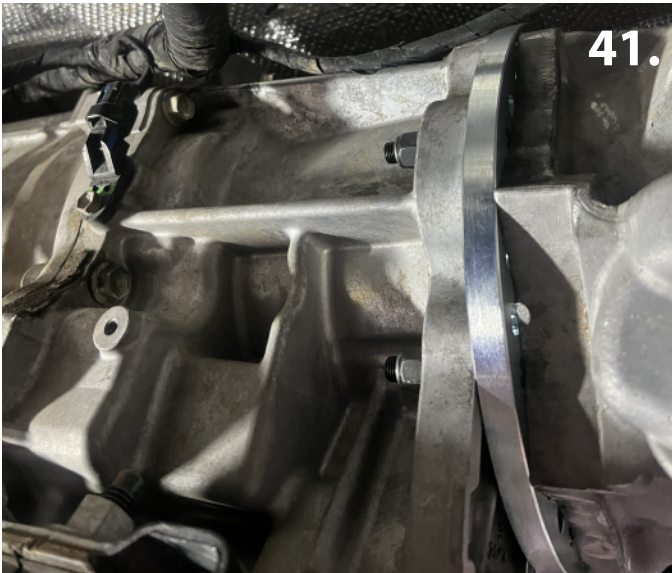
22. Reclocking ring can be installed in two positions, depending on your application. 11 degrees (pic 35) or 15 degrees (pic 36)



23. Be sure to apply red loctite on both the flat socket bolts and socket set studs for reclocking ring. (pic 37-38)



24. M10 x 30mm Flat socket bolts (pic 37) torque to 50 ft lbs.
25. 3/8" -24 x 2" socket set screw studs (pic 38) torque to 5 ft lbs.
26. Make sure to wipe off any excess loctite that may be on the bolts, studs, and surface of reclocking ring. (pic 39-40)



27. Reinstall transfer case using the new provided washers and nuts onto the threaded studs.
(pic 41)

28. Reconnect all electrical plugs and clips that were removed during install.

29. Reinstall the def tank and crossmember in the original location using all the factory hardware.

Along with any plugs and clips for the def tank.

30. Now reinstall the factory front and rear drivelines using all the factory hardware .