00-02 Dodge 2500/3500 CAD Delete Kit & 35 Spline Upgrade Before Starting! Check all parts and tools!

Included in your CAD Delete Kit:

- Axle Shaft (upgrade 2)
- Block off Plate
- Axle Seal (upgrade 2)
- Gasket
- 1. Read all instructions before starting. Do not attempt the install unless you are an equipped and experienced mechanic.
- 2. When working with tools and chemicals, always wear the required safety equipment and glasses.
- 3. If there are any questions during the install, contact EMS Offroad. **Do not modify** any of the parts (UNLESS INSTRUCTED TO DO SO).
- 4. These instructions do not replace the required knowledge of vehicle repair or seal installations.
- 5. Inspect all parts. Check fitment before disassembly. If any parts appears to be damaged or does not fit/function contact EMS Offroad. There are no returns on modified, abused, neglected, altered or improperly installed parts.

***Improper tool use may result in injury or death!

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Installing the EMS Offroad CAD Delete:

- 1. Clean and inspect all parts
- 2. Lift and support front axle with jack stands of vehicle. Block rear tires.
- 3. Remove outer (refer to hub kit instructions or Factory service manual)
- 4. Remove Axle(s)
- 5. Remove OEM stub axle from inner axle (skip this step if upgrading to the hub conversion kit)
- 6. Install the stub axles onto the new inner axle. EMS Offroad stocks Spicer u-joints and 4340 u-joints if required.
- 7. One seal is located next to the carrier, the other is located outboard of the CAD on the long side axle tube.
- 8. Remove CAD
 - 8.1. Remove collar
 - 8.2. **Seal removal is optional**. Seal is located on the outboard side of CAD.
 - 8.2.1. To remove seal, drive the seal in towards the center section.
 - 8.3. Remove Bearing
 - 8.3.1. There is a bearing that supports the OEM inner axle. This needs to be removed it clear the new axle shaft.

- 9. New seal install.
 - 9.1. Remove carrier
 - 9.1.1. Remove cover and drain housing
 - 9.1.2. Mark (if needed) and remove carrier bearing caps
 - 9.1.3. Remove carrier (Don't worry Dana 60s have the shims under the carrier bearings)
 - 9.2. Drill and tap a new 1/8" NPT hole in top of front center section.



- 9.2.1. Remove factory breather from CAD housing. Install in new hole. Re-route breather hose, to new location.
- 9.3. Install the new axle seal.
 - 9.3.1. Prepare the axle tube for seal installation. Clean and de-bur the inside of the axle tube on the right. This is the side that **does not** have a place machined for a seal. (Flap wheel on a die grinder works best, but can be done by hand)



- 9.3.2. Prepare the seal for installation
 - 9.3.2.1. Fill the inside of the seal with a **low melting point drum brake wheel bearing** grease. Use the cheapest grease you can find! If you use disc brake or synthetic grease you will shorten the life of the seal by over 1000 times.

- 9.3.2.2. Run a bead of hardening RTV on the outside diameter, just inside of o-rings.
- 9.3.3. Push the seal housing into the axle tube. The snap ring or groove will stop the seal housing at the right depth. Note you may have to trim the RTV you see sticking out from between the tube and housing.
- 9.3.4. Replace the carrier and carrier bearing caps. Torque to factory spec per vehicle.
- 9.3.5. Replace cover
- 10. Check the axle shaft for any burs or sharp edges, clean and de-bur as needed.
- 11. Apply a liberal amount of grease to the seal area and splines of the inner axle shafts.
- 12. Slide Axles into housing; take care not to knock the seal out, and make sure not to push dirt, mud, and rust into the center section.
- 13. Fill with recommended fluid.
- 14. Options for Vacuum and 4WD light wires.
 - 14.1. Option #1 Wire in new switch
 - 14.1.1. Remove Vacuum lines from Transfer case switch (switch is located directly above the Transfer case shifter, near the front output,)
 - 14.1.2. Remove and plug vacuum line that feeds the switch
 - 14.1.3. Replace the switch with one that is an electrical switch (this must be sourced locally, due to the various differences in transfer case options.) Most likely replacement switch can be found from a 02 Dodge 2500. This switch may not fit your transfer case.
 - 14.1.4. Reroute the wires from the CAD to the new transfer case switch.
 - 14.2. Option #2 Plug the vacuum lines that ran to the CAD, Dead end the wires that ran to the CAD
- 15. Install outers, or continue with hub conversion install.