MOSER ENGINEERING™

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Moser Engineering #9100 10 & 12 Bolt C-Clip Eliminator Instructions for large bearing Impala, Blazer & Truck rears

- ✔ Confirm that you have the correct kit before beginning assembly. Make sure the four hole pattern on the c-clip eliminators you received matches the pattern on your housing end. If it does not, please contact Moser Engineering.
- ✔ Check your kit against the parts list to ensure you have received all of the components.
- ✔ The #9100 eliminators will only fit rears that originally had axles with a 1.618″ bearing seat. There are some Late 80's and Early 90's trucks with larger housing ends and axles and these eliminators do not fit.

Parts List

- 2- #9100 C-Clip Eliminators
- 2- Shrink Rings (Installed in seals)
- 8- 3/8″x16 Grade 8 Bolts
- 8- 3/8″ Lock Washers
- 1- Tube Moser Engineering Silicone

Axle Preparation

Note: If your C-Clip Eliminators are already installed on your axles, skip this section and proceed to Housing Preparation.

1. Remove axles from housing.
2. You must have *at least* a 10 ton press to install this kit.
3. When using stock axles, the bearing journal must be machined to accept the bearing in the eliminator (See Figure A).
4. Check the eliminator to be ensure the shrink ring is completely in the seal.
5. Slide the eliminator on. The side without the threaded holes goes toward the axle flange.
6. Place the eliminator with the shrink ring in the seal on a set of V-plates on your press (See Figure B).
7. Press the eliminators on the axle until you meet resistance indicating the bearing has hit the radius shoulder of the axle. **DO NOT** use excessive tonnage after it is apparent the eliminator is all the way on or you may break the bearing race.
8. Remove the axle from the press.
9. After completing the same process for the other axle, proceed to Housing Preparation.

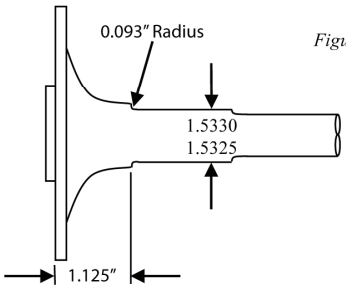

Figure A

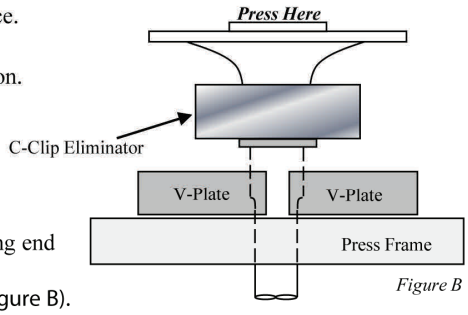

Figure B

Housing Preparation

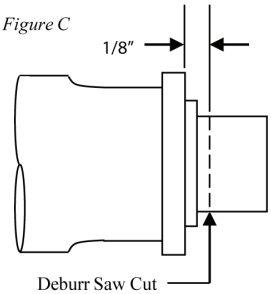

Figure C

1. Remove brake backing plates and bolts from the housing end snouts.
2. Remove the stock bearings and seals from the housing end snouts.
3. Using a hacksaw, shorten the snouts to 1/8″ (See Figure B). Then, using a file, deburr the rough edges of the hacksawed snouts.
4. On some brake assemblies, the brake spreader bar may hit the top of the eliminator. If it does, simply tap the spreader bar so it has a slight arch in it.
5. Re-install (Slide on) the brake backing plates.

Final Assembly and Re-Installation

1. Slide the axle into the rearend and up to the brake backing plate and the housing end. If you are using a stock type differential, make sure the axle does not come into contact with the center pin. Some OEM axles may need to have the c-clip buttons removed from the tip of the axles. (Use an abrasive saw to cut them off.)
2. Make sure the eliminator fits flush with the backing plate and the housing end is not contacting the seal. If it does, you will need to remove more material from the housing end snout.
3. Once you are sure the axle fits properly, put a bead of silicone (supplied with kit) around the outside diameter of the housing end snout.
4. Re-install the axle into the rearend and up to the brake backing plate and housing end.
5. Slide the lock washers on the supplied bolts. Then, insert the bolts through the housing end and screw them into the eliminator block.
6. Tighten the bolts to 40 ft/lbs, then repeat process for the other axle.

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