



## NEW GEAR BREAK-IN PROCEDURES

New gear sets **MUST** be broken in correctly to prevent damage. Not following proper break-in procedures will lead to overloading and overheating the ring and pinion as well as breaking down and ruining the gear oil. Not following proper break-in procedures can be determined during inspection and will void the warranty.

Please follow the below guidelines to ensure a proper break-in and long life of your gears.

- Only use high quality gear oils. ECGS recommends Lucas non-synthetic 85-140. We recommend this for the life of all of our differentials even after the initial break-in, regardless of the manufacturers preferred oil.
- On initial run, drive lightly for 15 to 20 minutes then stop to allow differential to cool completely for 20 to 25 minutes.
- Avoid towing and heavy acceleration, as well as vary speeds every 5 to 10 minutes while driving on highways.
- Drive conservatively and do not drive more than 50 miles at a time without allowing a cool cycle during the first 500 miles following installation.
- After completing initial break-in, change gear oil at 500 miles. Small metal particles are normal and gear oil will typically be black. Excessive metal in gear oil should be reviewed by a competent differential mechanic to ensure safety of internal parts.

Post gear oil change and initial break-in: Towing.

- First time towing should be limited to light load for no more than 15 miles, then allow differential to cool completely for 20 to 25 minutes.
- Repeat this procedure for first 45 miles of towing for full break-in of gears for towing vehicles.

Please see our tech article online found [here](#) for more info on our gear oil recommendation.

**PREMATURE OVERLOADING AND IMPROPER BREAK-IN WILL CAUSE  
GEAR OIL BREAKDOWN AND MAY RESULT IN RING AND PINION  
FAILURE VOIDING THE GEAR WARRANTY!**