9" Center Section Guidelines & Torque Specifications

**Gear Oil Type & Amount**
- SAE 85W-140 nonsynthetic gear oil is recommended.
- Heavy Duty 9" housings require 2.5 quarts of gear oil.
- Ultra Fab 9" housings require 4.0 quarts of gear oil.
- Top loader housings require enough gear oil to reach the valley of the spool.
- H1180 housings require 3 quarts of gear oil.

**Differential Friction Modifier**
- Required for clutch-type limited slip differentials.
- One entire bottle (3.8 fl. oz.) is required in addition to the 2.5 quarts of gear oil.
- Ford Racing brand additive part # CM-19546-A1 is recommended.
- Additive is required even if gear oil manufacturer states oil is compatible with limited slip differentials.

**Break-in Procedure for Street Gears**
1. No harsh acceleration!
2. Drive vehicle 50 miles
3. Allow 1/2 hour for cool down
4. Repeat for total of 250 miles
5. At 500 miles remove the center section, fully clean, use a fresh gasket & reinstall.

### Storage of Center Sections
Differential bearings, pinion bearings, and ring and pinion should be liberally oiled with gear oil and then sealed from the atmosphere in a plastic bag.

### Load Bolt Set-up & Adjustment
1. Tighten load bolt while turning assembly by hand until drag is felt.
2. Loosen load bolt approx. .001” from contacting the ring gear.
3. Rotate assembly again. If drag is felt, loosen load bolt an additional 0.001”.
4. Load bolt may need readjustment after every 4-8 passes depending on frequency of runs.

### Tail Bearing Retainer Plate (shown below)
- Only Ultra & PRO HD Cases

### Center Section Removal
- Use provided jackscrews (18) to aid in removal of the center from the rear end.
  (only Ultra & Pro HD)
- Do not leave the jackscrew installed during operation.

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**Item #** | **Part #** | **Description** | **Torque Spec.** | **Notes**  
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1 | N1912K | 10-24 X 1/2 FHSCS | Hand-tight | Blue Loctite  
2 | F1282 | 3/8-24 Nut | 35 ft-lbs | none  
3 | L7010AB | 9/16-18 12 Point Nut | 80 ft-lbs | Anti-seize  
4 | N1950C | 3/8-24 x 1.25 ARP 12 Pt. Screw | 35 ft-lbs | none  
5a | N1922A | 28 Spline Pinion Nut | 200 ft-lbs | Red Loctite  
5b | N1922B | 35 Spline Pinion Nut | 250 ft-lbs | Red Loctite  
6 | N1912U | 7/8-14 Plug | 40 ft-lbs | none  
7 | N1910 | Load Bolt Assembly (optional) | see notes below | none  
8a | N1975A | 7/16-20 ARP 12 Pt. Screw | 85 ft-lbs | Red Loctite  
8b | N1976A | 1/2-20 ARP 12 Pt. Screw | 120 ft-lbs | Red Loctite  
9a | N1905B | 5/16-18 x 0.375 BHSCS | 10 ft-lbs | none  
9b | N1902D | 5/16-18 x 0.625 BHSCS | 10 ft-lbs | none  
10 | N2300E | 7/16-14 x 1.50 ARP 12 Pt. Screw | 50 ft-lbs | Anti-seize  
11a | N1965 | 7/16-20 x 7/8” HHCS | 85 ft-lbs | Red Loctite  
11b | N1964 | 1/2-20 x 7/8” HHCS | 105 ft-lbs | Red Loctite  
11c | N1967 | 7/16-20 x 1” HHCS | 70 ft-lbs | Red Loctite  
11d | N1968 | 7/16-20 x 1-1/4” HHCS | 70 ft-lbs | Red Loctite  
12 | B1757B | 3/8-16 x 1.25” HHCS | 35 ft-lbs | none  
13 | L4000J | 3/8 NPT Socket Pipe Plug | 40 ft-lbs | Thread Sealer  
14 | H1122D | 1/2-20 x 3” SHCS | 80 ft-lbs | Anti-seize  
15 | B1320R | 3/8-16 x 1.50” HHCS | 35 ft-lbs | none  
16 | N1908E | 1/2 NPT Socket Pipe Plug | 40 ft-lbs | Thread Sealer  
17 | N1908F | 1/2-13 x 2.50” SHCS | 80 ft-lbs | Anti-seize  
18 | N1912R | 1/4-20 x 1-1/2 HHSCS | n/a | n/a
Note: Wavetrac® Differentials do not fit the Strange 9” Pro-HD Aluminium Case. Do not grind the walls to fit the differential, it will result in thin walls that will reduce the integrity of the case.