

Kit Summary:

Kit #	N1914, N1915 & N1917
Description	Ford 9" Pinion Supports
Applications	Street cases
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Date Modified	Jun 2, 2014

RaceStrange

- Larger than stock rear tapered pinion bearing
- Oil porting to maximize bearing life
- Ideal for street/strip applications
- Pinion preload is adjusted by shim stack in combination with 2 pre-load spacers

Description

Iron Daytona

Aluminum Daytona

Strange Forged Aluminum

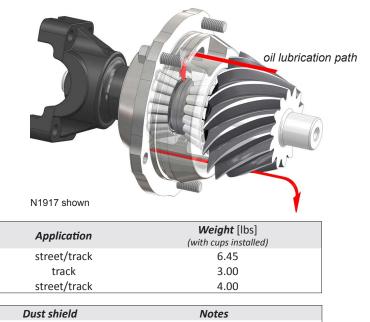
- Significant increase in thrust capacity
- Improved rigidity for pinion shaft

Part #

N1914

N1915

N1917

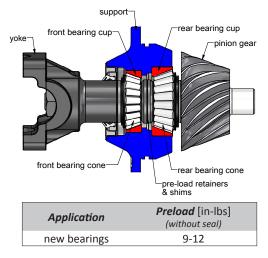


Part #	Description	Dust shield	Notes
U1603	Strange chrome-moly yoke	U1600B	N1918A 0.188" pinion spacer required
U2203	Strange S-series yoke	U2203B	

Pinion Nut Torque

28- spline pinion: 200 ft-lbs

Pinion Bearing Preload



Bearing preload is the measure of torque [in-lbs] required to rotate the pinion after the nut has been torqued to spec.

Preload using shim stacks:

Pinion bearing preload is adjusted by the thickness of the shim combinations inside the pre-load retainers. As shims are added the total width of the retainer assembly is increased pushing the bearing cones away from the bearing cups therefore, decreasing the drag. Add shims to decrease pre-load.

Removing shims decreases the total width of the pre-load retainers. The bearing cones experiences a greater drag against the bearing cups at the same pinion nut torque. Remove shims to increase pre-load.

Pinion Depth

Pinion depth on 9" rear ends is adjusted by shims between the pinion support and center case. Adding shims moves the pinion gear further away from the center-line of the ring gear.

ITEM#	PART#	QTY	DESCRIPTION	
1	N1925J	1	rear bearing cone (HM89443)	
2	N1925A	2	pinion preload retainer	
3a	N1925B	2	0.004 x 1-3% shim	polish area
3b	N1925C	2	0.005 x 1-3⁄8 shim	
3c	N1925D	2	0.006 x 1-3/8 shim	
3d	N1925E	2	0.007 x 1-3/8 shim	
3e	N1925F	2	0.008 x 1-3/8 shim	
4	N1958	1	o-ring #248 (pre-installed)	
5	N1962	1	pinion depth shims	
6		1	pinion support	
7	N1914C	1	rear bearing cup (M88010)	
8	N1914B	1	front bearing cup (HM89410)	2,3
9	S3402N	5	¾ washer	
10	B1757B	5	3⁄8-16 x 1-¼ HHCS	6,7,8
11	N1925H	1	front bearing cone (M88048)	
12	N1960	1	pinion seal	
			_ 1	
			and the second s	
				chamfered edges
				35 ft-lbs for Al. cases
				45 ft-lbs for iron cases

Installation:

- 1. Polish the pinion gear with an emry cloth or sand paper to achieve a slip fit with the front bearing cone(11).
- 2. Press the rear bearing cone (1) over the pinion gear shaft. Ensure correct orientation of bearing.
- 3. Slide the pinion preload retainer (2) and shims (3) over the pinion gear assembly.
- Ensure correct orientation of preload retainers. Start with 0.030" total shim thickness.
- 4. Place the pinion support body (6) onto the pinion shaft.
- 5. Slide the front bearing cone (11) over the pinion shaft and the pinion yoke. Torque the pinion nut. Do not install the seal (12). Refer to the first page for pinion nut torque. Slightly lubricate the pinion gear threads to read the correct torque.
- 6. Apply a small amount of lightweight gear oil to both bearings and check for bearing drag. This indicates an existent preload condition. Refer to the first page for preload specification and instructions.
- 7. Once the correct preload has been established, remove the pinion nut and yoke.
- 8. Press the pinion seal (12) into the pinion support body (6) flush with the outside face of the body. Ensure the front bearing cone is still inside the body before the seal is pressed on.
- 9. Apply a small coating of lightweight gear oil to the inside diameter of the seal (12).
- 10. Clean and dry the threads on the pinion gear and reinstall yoke.
- 11. Clean and dry the threads of the pinion nut before applying red loctite. Install the nut and torque to spec listed on first page.
- 12. Following you gear manufacture's instructions, install the completed assembly into your Strange Engineering 9" Ford case with the o-ring (4) in the groove machined in the support. The proper amount of depth shims (5) must be determined. Lubricate the o-ring (11) and pinion support bore prior to assembly. Secure with five pinion support bolts (9) and torque to 35 ft-lbs for aluminum cases and 45 ft-lbs for iron cases.