



HAXL-PNI-017

**GENUINE SPICER® BEARING CUP & CONE
CHANGES IN D170/D190 FAMILY AXLES**

PART NUMBER INFORMATION

DATE: 06/8/2012

TO: All Dana Aftermarket Group Spicer® Heavy Axle Customers

Affected Models: D/R170, D/R190, D/R590, S170, S190, S590

In order to meet more demanding application and performance expectations, Dana is pleased to announce a product design change in the models listed above. Dana began implementing the use of the new design, case hardened carrier's bearings in production axles in February 2012.

The change to new bearings will impact service kits in a variety of ways. The part number changes have been outlined below to minimize any potential mixing of bearing parts from different suppliers.

- Bearings are manufactured and used in sets to maximize full life of the product
- NOT using SPECIFIED bearings in Dana carriers can create potential noise issues or lead to premature bearing failures and affect the warranty of product
- Mixing of bearing cups and cones can create potential noise issues or lead to premature bearing failures
- New and Old bearing cones and cups are manufactured by different suppliers
- Superseding OLD individual part numbers directly to the NEW individual part numbers could lead to mixing of parts that could lead to potential failures. **DO NOT MIX CONES AND CUPS MANUFACTURED BY DIFFERENT SUPPLIERS**
- Spicer® service kit contents will always contain mating cones and cups

SPICER® GENUINE BEARING KITS:

- Service kit bill of material changes will be done on a running basis.
- The bill of materials will begin changing in late May 2012.

| <u>Dana Part-No.</u> | <u>Description</u> | <u>Model</u> | <u>Ratios</u> |
|----------------------|--------------------|--------------------------|------------------|
| 514011 | Bearing Kit | D170D | all ratios |
| 514012 | Bearing Kit | D190, D190D, D590, D590D | all ratios |
| 514238 | Bearing Kit | D170 | all ratios |
| 514013 | Bearing Kit | R170, S170 | ratios 2.69-3.91 |
| 514014 | Bearing Kit | R170, S170 | ratios 4.10-7.17 |
| 514015 | Bearing Kit | R170D, S170D | ratios 2.53-3.91 |
| 514015 | Bearing Kit | R190, R190D, S190, S190D | ratios 2.53-4.78 |
| 514016 | Bearing Kit | R190, R190D, S190, S190D | ratios 5.25-7.83 |
| 514240 | Bearing Kit | R170D, S170D | ratios 4.10-7.17 |

HD AXLE INFO

INDIVIDUAL BEARINGS:

- Individual bearings cones and cups are sold separately thru service.
- Always use and install as matched sets, as noted below.
- When stock of the individual original bearing part numbers are exhausted, the part is **No Longer Available**.
- Customers to reference the content of this bulletin and the chart below to help ensure bearing cones/cups from the same supplier are purchased and used together.

| Dana Part-No. | Description | Replaced By | Bearing Parts Matched by Location |
|---------------|--------------|-------------|-----------------------------------|
| 131050-nla | Bearing Cone | 139968 | Pinion Bearing - Inner |
| 131051-nla | Bearing Cup | 139969 | Pinion Bearing - Inner/Outer |
| 131052-nla | Bearing Cone | 139970 | Pinion Bearing - Outer |
| 131202-nla | Bearing Cone | 139971 | Pinion Bearing - Outer |
| 131203-nla | Bearing Cup | 139972 | Pinion Bearing - Outer |
| 131205-nla | Bearing Cone | 139973 | Input Shaft Cone |
| 131206-nla | Bearing Cup | 139974 | Input Shaft Cup |
| 131208-nla | Bearing Cone | 139975 | Output Side Gear Cone |
| 131209-nla | Bearing Cup | 139976 | Output Side Gear Cup |
| 131211-nla | Bearing Cone | 139977 | Output Shaft Cone |
| 131212-nla | Bearing Cup | 139978 | Output Shaft Cup |

INPUT ADJUSTER & CUP ASSY:

- Kits 514356 and 514357, that contain the Input Adjuster & Cup Assy., will be superseded by new service kit part numbers, 504066 and 504067
- The new replacement kits will now contain the new Input Adjuster & Cup Assy's and the matching Input Bearing Cone.

| Dana Part-No. | Description | Replacement Information |
|---------------|-----------------------------------|-------------------------|
| 131205-nla | Bearing Cone | Replaced by new 139973 |
| 131685-nla | Input Adjuster & Cup Assy | Replaced by new 134354 |
| 514356-nla | Kit – Input Adjuster & Cover D190 | Replaced by new 504066 |
| 514357-nla | Kit – Input Adjuster & Cover D170 | Replaced by new 504067 |

| Part-No | 514356 | |
|----------|------------------------------|-----|
| Desc | Kit - D190 Piloted I/P Cover | |
| Part-No. | Description | Qty |
| 131687 | cover - diff carrier | 1 |
| 131692 | stud | 1 |
| 131374 | capscrew - hex | 12 |
| 131693 | nut - hex | 1 |
| 131685 | input adjuster & cup assy | 1 |

| Part-No | 504067 | |
|----------|-----------------------------------|-----|
| Desc | Kit - Cvr and Input Adjuster D170 | |
| Part-No. | Description | Qty |
| 131686 | cover - diff carrier | 1 |
| 131692 | stud | 1 |
| 131374 | capscrew - hex | 10 |
| 131693 | nut - hex | 1 |
| 134354 | input adjuster & cup assy | 1 |
| 139973 | brg cone | 1 |

| Part-No | 514357 | |
|----------|------------------------------|-----|
| Desc | Kit - D170 Piloted I/P Cover | |
| Part-No. | Description | Qty |
| 131686 | cover - diff carrier | 1 |
| 131692 | stud | 1 |
| 131374 | capscrew - hex | 10 |
| 131693 | nut - hex | 1 |
| 131685 | input adjuster & cup assy | 1 |

| Part-No | 504066 | |
|----------|-----------------------------------|-----|
| Desc | Kit - Cvr and Input Adjuster D190 | |
| Part-No. | Description | Qty |
| 131687 | cover - diff carrier | 1 |
| 131692 | stud | 1 |
| 131374 | capscrew - hex | 12 |
| 131693 | nut - hex | 1 |
| 134354 | input adjuster & cup assy | 1 |
| 139973 | brg cone | 1 |

OUTPUT SIDE GEAR AND LUBE PUMP PARTS:

- 513876 Lube Pump Parts Kit contains the patented On Demand Lube Pump, the output side gear, spring pin, and the output side gear bearing cone.
- Bearing cone 131208 and the mating cup 131209 are being discontinued and are replaced by 139975 bearing cone and matching 139976 cup.
- 513876 will be superseded by 504065 Lube Pump and O/P Side Gear kit. The new kit will not include a "bearing cone".
- When a replacement output shaft side gear bearing cone and its matching cup is required, customers to purchase individually, as needed, to assure they are using matching parts.

| Dana Part-No. | Description | Replacement Information |
|---------------|---------------------|-------------------------|
| 513876-nla | Kit-Lube Pump Parts | Replaced by new 504065* |
| 131208-nla | Bearing Cone | Replaced by new 139975 |
| 131209-nla | Bearing Cup | Replaced by new 139976 |

| Part-No 513876 | | |
|----------------------------|------------------|-----|
| Desc Kit - Lube Pump Parts | | |
| Part-No. | Description | Qty |
| 131208 | bearing cone | 1 |
| 131368 | lube pump | 1 |
| 131466 | output side gear | 1 |
| 131541 | spring pin | 1 |

| Part-No 504065 | | |
|----------------------------------|------------------|-----|
| Desc Kit - OP Gear and Lube Pump | | |
| Part-No. | Description | Qty |
| 131368 | lube pump | 1 |
| 131466 | output side gear | 1 |
| 131541 | spring pin | 1 |

*The New 504065 kit does not come with output shaft side gear bearing cone. Purchase separately.

OUTPUT SHAFT SECTION:

- Individual output shaft bearing cones and cups are being replaced, see below for details
- Service kit bill of material changes will be done on a running basis.

| Dana Part-No. | Description | Replacement Information |
|---------------|-------------------------------|-----------------------------------|
| 131211 | Bearing Cone | Replaced by new 139977 |
| 131212 | Bearing Cup | Replaced by new 139978 |
| 504054 | Kit – D Hsg Repair | D170 models |
| 504060 | Kit – Output Shaft Bearing | D170, D190 models AFTER Nov 2011 |
| 504061 | Kit – Hsg Cover and Brg Parts | D190 models |
| 513877 | Kit – Output Shaft Bearing | D170, D190 models BEFORE Nov 2011 |
| 514352 | Kit – Hsg Repair D170 | D170 |

Note: Important Axle housing and output shaft bearing part changes were made in November 2011. Refer to Dana bulletin HAXL-TEC-11.1 for details regarding those parts and kits.

As always, your continued business and support of Genuine Spicer® products is appreciated!



Bernie Powers
Product Manager

Spicer® Heavy Axle Products