

Power Divider Gear Changes – New Spicer® Service Kit Release

Date: **August 7, 2019**

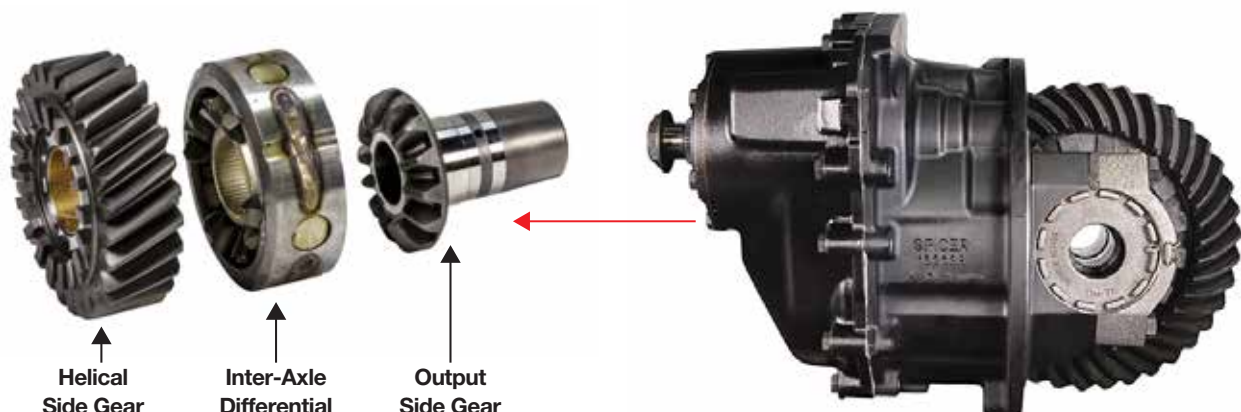
To: **All Dana Aftermarket Group Spicer® Heavy Axle Customers**

Affected Models: Tandems - DS404, DSP40, DSH44, DST40, D155, D170 & D190, D590*, D156**

****Please note, the D156 model was released into production on July 1st, 2019. Spicer carriers with serial numbers numerically higher than HN07768236 OR MY01984837 were built with the new design. Use the charts on pages 3 and 4 to identify the proper service parts to complete your repair for the D156 model.**

*The D590 model was released into production on November 13, 2018. Spicer carriers with serial numbers numerically higher than HN07642231 were built after November 13, 2018. Use the charts on pages 3 and 4 to identify the proper service parts to complete your repair for the D590 model.

In March 2018 for the models listed above excluding D590 and D156, Dana changed the design of our power divider gearing in all current production tandem drive axles. Changes were made to the beveled teeth of the helical side gear, inter-axle differential and output side gear to increase durability.



Because of this gear design change, Spicer® power divider gears made before March 13, 2018 will **NOT** be interchangeable with the newly designed gears. When performing a service repair, it's important to identify when the drive axle was manufactured to insure you don't mismatch the two different gearing designs. The carrier serial number can be used to determine which gearing is installed. Spicer carriers with serial numbers numerically higher than HN05303133 were built after March 13, 2018. Use the chart on the following page to identify the proper service parts to complete your repair.

Important Note: If you need to replace one of the three power divider gears on carrier assemblies manufactured before the dates specified for each model, you must replace all three gears with the new design. Mismatching gear designs will cause premature failures that will not be covered under Dana warranty. Because of this, new Spicer® service kits of the 3 parts are released and presented on page 4 of this bulletin.

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The information below will help to determine which generation of PDU gearing you are servicing.

Part Number Change – Helical Side Gear



Before March 2018 –
6 Digit Part Number
D590 Before November 2018
D156 Before July 2019



After March 2018 –
10 Million Part Number
D590 After November 13, 2018
D590 After November 13, 2018

Part Number Change – Output Side Gear



Before March 2018 –
6 Digit Part Number
D590 Before November 2018
D156 Before July 2019



After March 2018 –
10 Million Part Number
D590 After November 13, 2018
D156 After July 1, 2019

Tooth Profile Change – Inter-Axle Differential Side Pinion Gears



Before March 2018 – Square Tooth
D590 Before November 2018
D156 Before July 2019



After March 2018 – Round Tooth
D590 After November 13, 2018
D156 After July 1, 2019

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Individual Parts

Spicer® Models	Old Gear Design Part #	New Gear Design Part #	Part Description
DSP40/DS404	130907	10000528	Helical Side Gear & Bushing Assy
DSP40/DS404	134192	10085729	IAD Assy
DSP40/DS404	127645	10026797	Output Side Gear - Before 2008
DSP40/DS404	132443	10049643	Output Side Gear - After 2008 - Non-Pump
DSP40P/ DS404P	132061	10026796	Output Side Gear - After 2008 – Pump
D170/D190	131345	10011380	Helical Side Gear Assy
D170/D190	139965	10094015	IAD Assy
D170/D190	131467	10026795	Output Side Gear - Non-Pump
D170P/D190P	131466	10005175	Output Side Gear - Pump
D170DP/D190DP	135015	10094013	IAD Assy – (Severe Duty)
D155	134692	10019008	Helical Side Gear Assy
D155	139965	10094015	IAD Assy
D155P	134770	10038686	Output Side Gear - Pump
D155	134768	10038655	Output Side Gear - Non-Pump
D590	131346	10051032	Helical Side Gear & Bushing Assy
D590	135015	10094013	IAD Assy
D590	131466	10005175	Output Side Gear
D156	134684	10093663	Helical Side Gear & Bushing Assy
D156	134192	10085729	IAD Assy
D156	132061	10026796	Output Side Gear - Pump
D156	132443	10049643	Output Side Gear - Non-Pump

Service Kits

Spicer® Models	Old Gear Design Kit Part #	New Gear Design Kit Part #
DSP40/DS404 - Non Pump	504404-5	504388
DSP40P/DS404P - Pump	N/A	504389
DSP40/DS404 - (Before June 2008)	504404-1	504394
D170/D190 - Non Pump	N/A	504395
D170P - Pump	N/A	504396
D170DP/D190/D190D - (Severe Duty)	N/A	504397
D155	N/A	504511
D155P	N/A	504512

All kits ONLY contain a helical side gear & bushings, inter-axle differential and output side gear
The detailed contents of the kits are provided in the charts on the next page.

New Kit Chart - D404 Family

Spicer® Kit Part #		504388	504389	504394
Part Description	Qty	All D40K (After 6/08) NON-PUMP	All D40KP (After 6/08) PUMP MODEL	D40K (Before 6/08)
Inter-Axle Diff Assembly	1	10085729	10085729	10085729
Helical Gear & Bushing Assembly	1	10000528	10000528	10000528
Output Side Gear	1	10049643	10026796	10026797

New Kit Chart - D170, 190 Family

Spicer® Kit Part #		504395	504396	504397
Part Description	Qty	D170 D170D NON-PUMP	D170P PUMP MODEL	D170P, D190, D190D (SEVERE DUTY)
Inter-Axle Diff Assembly	1	10094015	10094015	10094013
Helical Gear & Bushing Assembly	1	10011380	10011380	10011380
Output Side Gear	1	10026795	10005175	10005175

New Kit Chart - D155 Family

Spicer® Kit Part #		504511	504512
Part Description	Qty	All D155 NON-PUMP	All D155P PUMP MODEL
Inter-Axle Diff Assy	1	10094015	10094015
Helical Gear & Bushing Assy	1	10019008	10019008
Output Side Gear	1	10038655	10038686

New Kit Chart - D590 Family

Spicer® Kit Part #		505052
Part Description	Qty	
Inter-Axle Diff Assy	1	10094013
Helical Gear & Bushing Assy	1	10051032
Output Side Gear	1	10005175

New Kit Chart - D156 Family

Spicer® Kit Part #		505070	505071
Part Description	Qty	NON-PUMP	PUMP
Inter-Axle Diff Assy	1	10085729	10085729
Helical Gear & Bushing Assy	1	10093663	10093663
Output Side Gear	1	10049643	10026796

If you need additional information, please contact your Dana Aftermarket representative. Thank you for your continued support of Dana Aftermarket products!



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