

Technical Service Information



TSI-04-14-06

Date: November, 2004

Subject File: REAR AXLE

Subject: New Service Parts Released for Dana Heavy Single Drive Axles S21-170, S23-170, S25-170, S23-190, S26-190, and S30-190

Model: 7300

Model: 7400

Model: 7500

Model: 7600

Model: 8500

Model: 8600

Unit Code: 14AHA

Unit Code: 14AHB

Unit Code: 14AHC

Unit Code: 14AHH

Unit Code: 14AHJ

Unit Code: 14AHK

Unit Code: 14AHL

DESCRIPTION

NOTICE

The information supplied herein has been furnished by the manufacturer and/or the supplier for use with its product. International Truck and Engine Corporation reprints this information based on representations made to the Company. While users are urged to carefully follow the instructions accompanying the product, International cannot accept any responsibility for user errors, or mishaps resulting from such errors, or from any misuse of the product. Refer to Dana Bulletin ABIB-0306R1 below for more information.



Dana® Spicer® Axles & Brakes

ABIB-0306R1

Information Bulletin

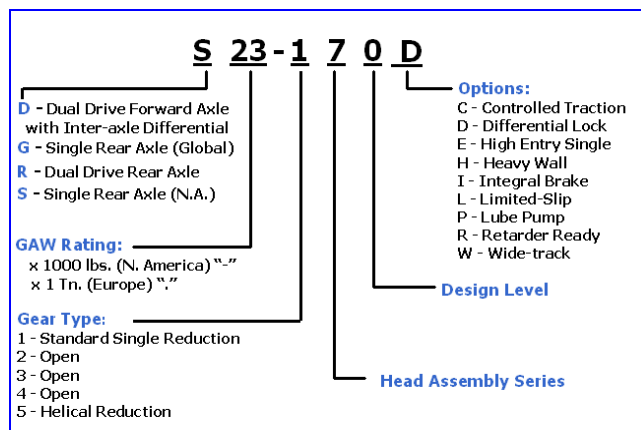
Revised Edition!

Bulletin Type: Parts/Service Information

Topic: Service Approach and New Service Parts Released for New Heavy Single Drive Axles

Affected Models: S21-170, S23-170, S25-170, S23-190, S26-190, S30-190

Dana Corporation has released two new series of Heavy Single Speed, Single Drive Axles into production. Shown below are the individual service parts, which have been released for specific repairs such as Driveline Yokes, Pinion Seals and Axle Shaft replacements. In the unlikely event of an "internal" axle failure, the axle will be serviced as a complete carrier assembly until further notice.



Model Nomenclature for Dana's newest series of Drive Axles.

Ordering Replacement Carrier Assemblies for Service

If the differential carrier requires replacing, record the information from the tag of the carrier and call your local Roadranger representative or Roadranger Call Center. Replacement differential carriers should be ordered through normal OEM channels. At this time Dana has not released specific service carrier part numbers.

Service Parts Listing – S170 and S190 Single Speed, Single Drive Axles

On Dana's new S170 & S190 Heavy Single Axles, the pinion nut is staked in place by design. Customers should follow specific instructions as outlined in service literature and instructions sheets when replacing these type pinion nuts. For service Dana will service the pinion nut and oil seal as kits, which include Loctite and specific instructions for installation, refer to the parts chart below for kit details.



CAUTION: If reinstalling any driveline yoke and the associated pinion nut after it has been removed, it is imperative that exact replacement instructions are followed. Failure to follow complete instructions may cause component damage or malfunction. Refer to Dana's installation instruction sheet SHAIS154, which is included in every Pinion Nut, Oil Seal and Yoke kit.

Pinion Nut & Oil Seal Kit

Dana P/N	Description	Notes	Qty Used
131008K	Pinion Seal & Nut Kit	Includes 131008, 131095, 129293 & shais154	1
131095K	Pinion Nut Kit - Staked	Includes 131095, 129293 & shais154	1
129293	Loctite .5ml Tube		1
shais154	Installation Sheet	Has torque requirements and special installation instructions	1

If the need to replace the driveline yoke on any of the Dana S170 or S190 series axles described in this bulletin, simply order a Spicer Yoke/Slinger & Nut Kit from the chart below. Each Yoke Replacement kit maintains the original part number of the yoke itself for identity purposes, but also includes a new replacement nut along with very important installation instructions and torque figures.

Spicer Yoke/Slinger & Nut Kits - Service

All Spicer Yoke kits listed below includes a new replacement nut and important installation information!

Dana P/N	Nut P/N	Series	Joint Angle	Type	Vendor P/N
R-Pinion Yoke Kits - 49 Inv Spline - 2.50"					
131442K	131095	1710	30 Deg	Full Rd	6-4-10291
131439K		1710	45 Deg	Full Rd	6-4-10311
131437K		1710	30 Deg	Half Rd	6-4-10291-1
131438K		1710	45 Deg	Half Rd	6-4-10311-1
131441K		1760	30 Deg	Full Rd	6-3-4-1861
131440K		1760	30 Deg	Half Rd	6-3-4-1861-1
131444K		1810	30 Deg	Full Rd	6-5-4-5091
131443K		1810	30 Deg	Half Rd	6-5-4-5091-1
131436K		Companion Flange	-----	Comp Flg	6-1-6281
131433K		SPL170	25 Deg	Half Rd	170-4-1891-1
131434K		SPL170	45 Deg	Half Rd	170-4-1911-1
131435K		SPL250	25 Deg	Half Rd	250-4-1021-1

Installation Information Sheet - Dana P/N: SHAIS154

- R-Pinion Seal Driver Dana P/N: 210749

Carrier to Housing Fasteners / Kit

Dana P/N	Description	Notes	Qty Used
512897	AXLE HSG HARDWARE KIT - REAR AXLE		
131105	Carrier to Hsg Capscrew - Long		10
131106	Carrier to Hsg Capscrew - Short		4
129293	Loctite Tube .5ml		1
SHAIS155	Instruction Sheet		1

Axle Shafts - Single Reduction Models

Model	Dana P/N	Qty	Spline	Body O.D.	Shaft Length	Spline Length	Flange O.D.	Flange Holes
21-30K	131246	1	46	2.25	37.00	3.70	8.500	948-TPR
	131247	1	46	2.25	46.00	3.70	8.500	948-TPR
	131428	1	46	2.06	37.00	3.70	8.500	948-TPR
	131429	1	46	2.06	46.00	3.70	8.500	948-TPR

Axle Shafts - Diff Lock Models

Model	Dana P/N	Qty	Spline	Body O.D.	Shaft Length	Spline Length	Flange O.D.	Flange Holes
21-30K	131245	1	46	2.25	46.00	11.70	8.500	948-TPR
	131246	1	46	2.25	37.00	3.70	8.500	948-TPR

NOTE: For wide-track or other axle shaft options call Dana for availability.



For spec'ing or service assistance, call 1-800-826-HELP (4357) 24 hours a day, 7 days a week, (Mexico: 8-332-1515). Or visit our web site at: <http://www.roadranger.com>