

Spicer® Drive Axles

SPICER®



Illustrated Parts List

AXIP-0049

May 2023

AdvanTEK® 40

D155, D155P, D155D, D155DP

D156, D156P, D156D, D156DP

R155, R155D, R156, R156D

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General Information

How To Use Illustrated Parts List

Ordering Parts

This parts book is organized in sections according to parts servicing requirements. Use the Contents or page headings and colored tabs to find information.

Use this book to order parts for your Dana® Spicer® Axle.

For convenience, part numbers have been included for all pieces of the carrier assembly. Some of these parts, such as the carrier and caps, are serviced only in kits or assemblies. Part numbers are for your reference only. Those parts not serviced separately are identified with NSS.

Kits and Assemblies

Kits and Assemblies contain groups of individual or assembled parts developed for optimal replacement or repair of a service problem.

Kits and Assemblies are shown with applicable parts groupings in the parts listing.

See the Appendix for detailed information concerning kits applicable to this model.

Abbreviations

AR - As Required - Parts that vary in quantity with each axle. Example: shims

NSS - Not Serviced Separately - Items which can only be purchased in sets, kit form or service assemblies. Example: brake shoes.

RH/LH - Right Hand/Left Hand - Determined as viewed from behind the vehicle looking forward.

"RTV" - Gasket Compound - Formed-in-place gasket sealer. It is recommended for use on all surfaces requiring a gasket.

Assy - Assembly

Brg - Bearing

Diff - Differential

Hsg - Housing

Inv - Involute

ABS - Antilock Brake System

N/A - Not Applicable

Str - Straight

Illustrations

Illustrations show parts in assembly groups.

Item numbers on illustrations correspond with parts listings on pages that accompany the drawings.

Notes are included on illustrations where needed.

Parts Listings

Parts listings are defined by parts groupings and are broken down by service assemblies.

Parts Listings identify a part for servicing with the following categories:

Item - corresponds with numbers on illustrations for part identification

Part Name - specifies part name or description

Quantity (Qty) - quantity required for assembly

Current Part - service part numbers are broken down by model, type or other applicable information

Notes - define unique characteristics or replacement notes

Kits / Assy's Where Used - indicates Kits or Assemblies that contain a particular part

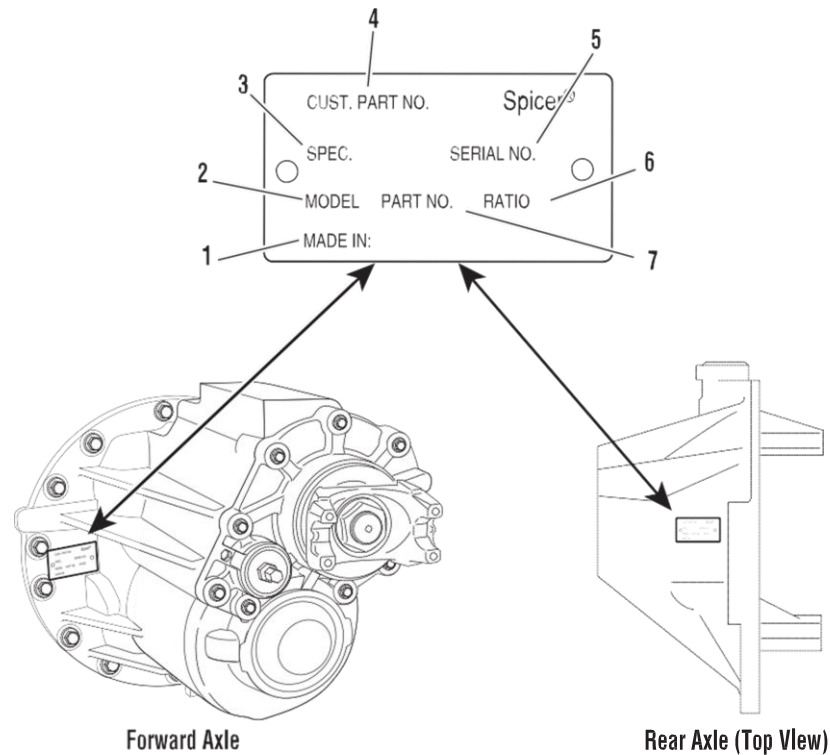
Other pertinent information is listed in tables or parts listings as required.

Model Identification

Locating Model Designation Information

Axle Model Identification, Part Number and Serial Number are located on a tag at the axle centerline. This information will help to locate information in this book and to identify the correct parts for servicing.

Drive Axles



1 - Country or origin

2 - Axle model identification

3 - Specification number assigned to the axle built by Spicer. Identifies all component parts of the axle including special OEM requirements such as yokes or flanges.

4 - OEM part number assigned to the axle build

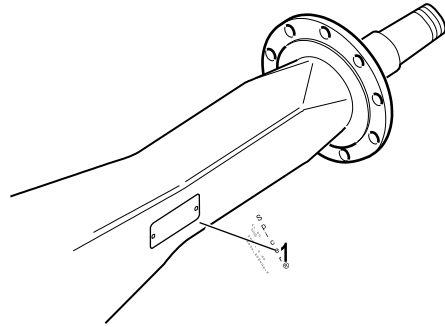
5 - Carrier assembly serial number assigned by the manufacturing plant

6 - Axle gear ratio

7 - Carrier assembly production or service part number

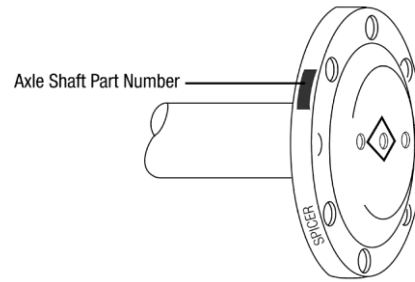
Model Identification

Axle Housing



1 - ID Tag

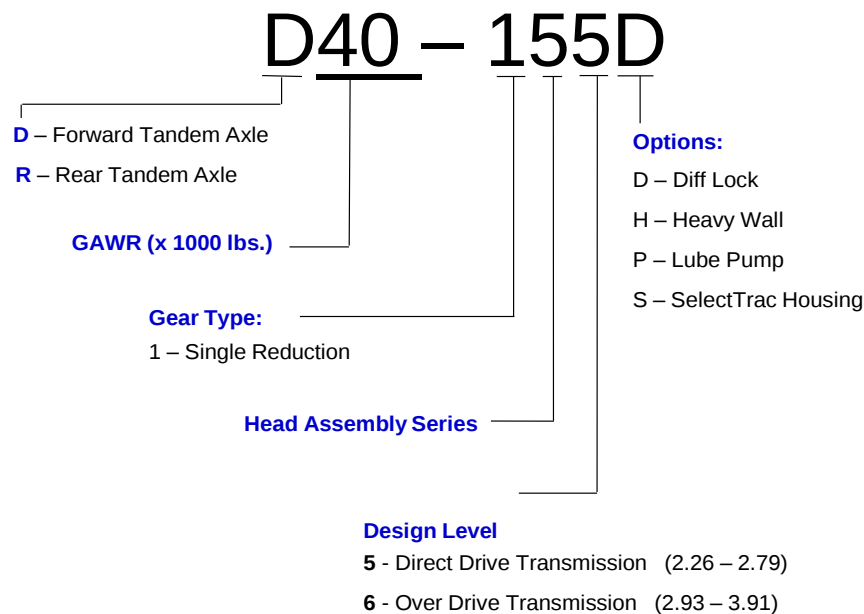
Axle Shaft



2 - Axle shaft part number

Using Model Designation to Identify Axle Components

The Axle Model Identification number contains information that is important to understand when purchasing service parts or new components. The Model Identification number provides important vehicle, capacity and application information and model features. Use this guideline to understand your Axle Model Identification. If you need assistance, contact your Dana Aftermarket representative.



Effectively using a Parts Listing - Example

Follow the example below to locate and order exactly what is required for servicing.

Match to items on illustration	Use to identify Part	Order this quantity for servicing	Order Part Number		Indicated information important to ordering or use
Item	Part Name	Qty	MODEL1	MODEL2	Notes
1	Axle Shaft	2	xxxxxx	xxxxxx	See Axle Shaft Chart
2	Flat Washer	4	xxxxxx	xxxxxx	
Kits and Assemblies					
Item	Part Name	Qty	MODEL1	MODEL2	Notes
Bearing Kits		1	xxxxxx	xxxxxx	Contents Identified with *

Models

The following models are included in this publication:

Single Reduction Models

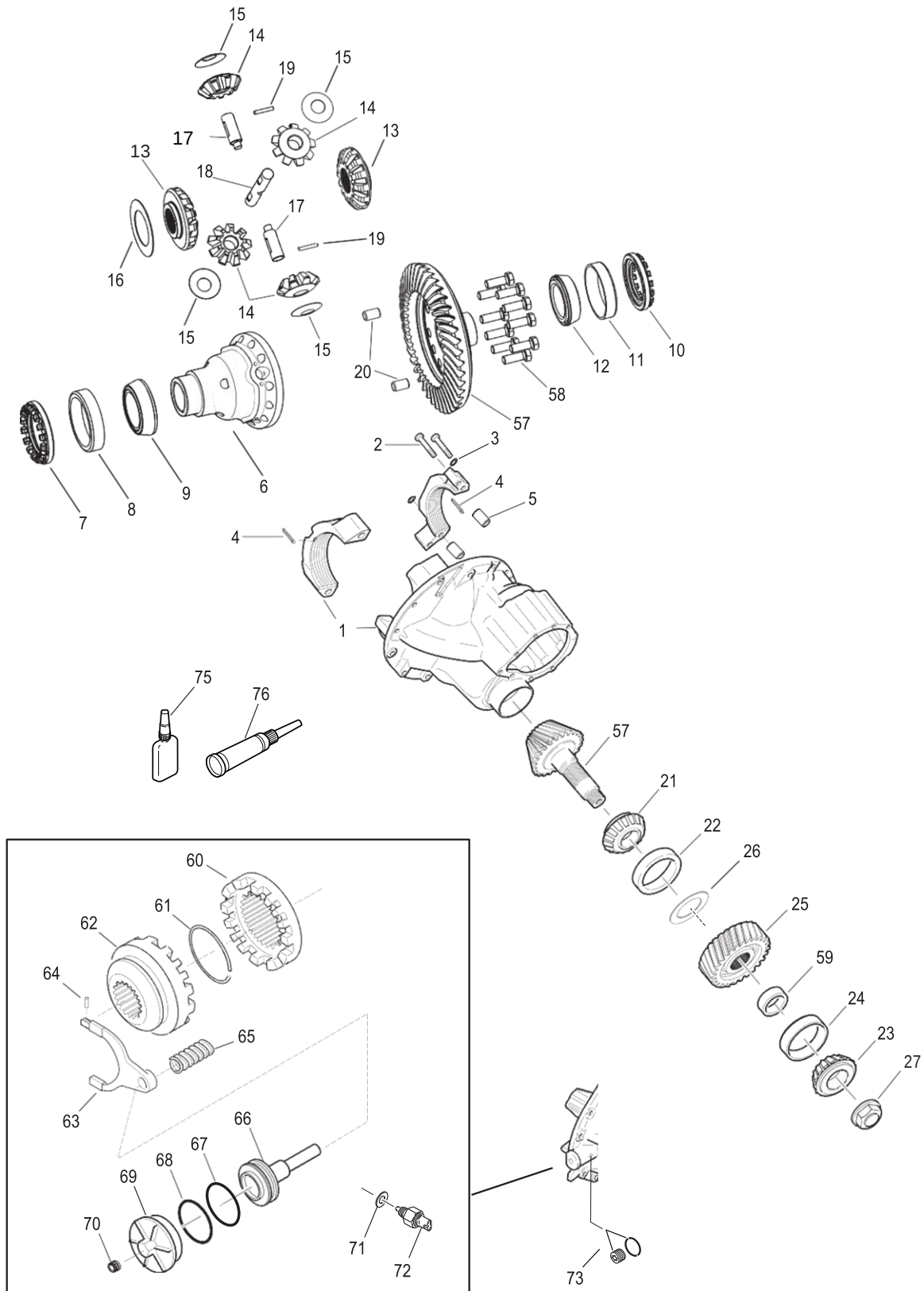
Forward Axle	Rear Axle	Axle Capacity	Gear Size
D40-155	R40-155	40,000 Lbs	15.75" Hypoid Gear
D40-156	R40-156	40,000 Lbs	15.75" Hypoid Gear

Single Reduction Models with Wheel Differential Lock

Forward Axle	Rear Axle	Axle Capacity	Gear Size
D40-155D	R40-155D	40,000 Lbs	15.75" Hypoid Gear
D40-156D	R40-156D	40,000 Lbs	15.75" Hypoid Gear

Single Reduction-Forward Axle AdvanTEK® 40

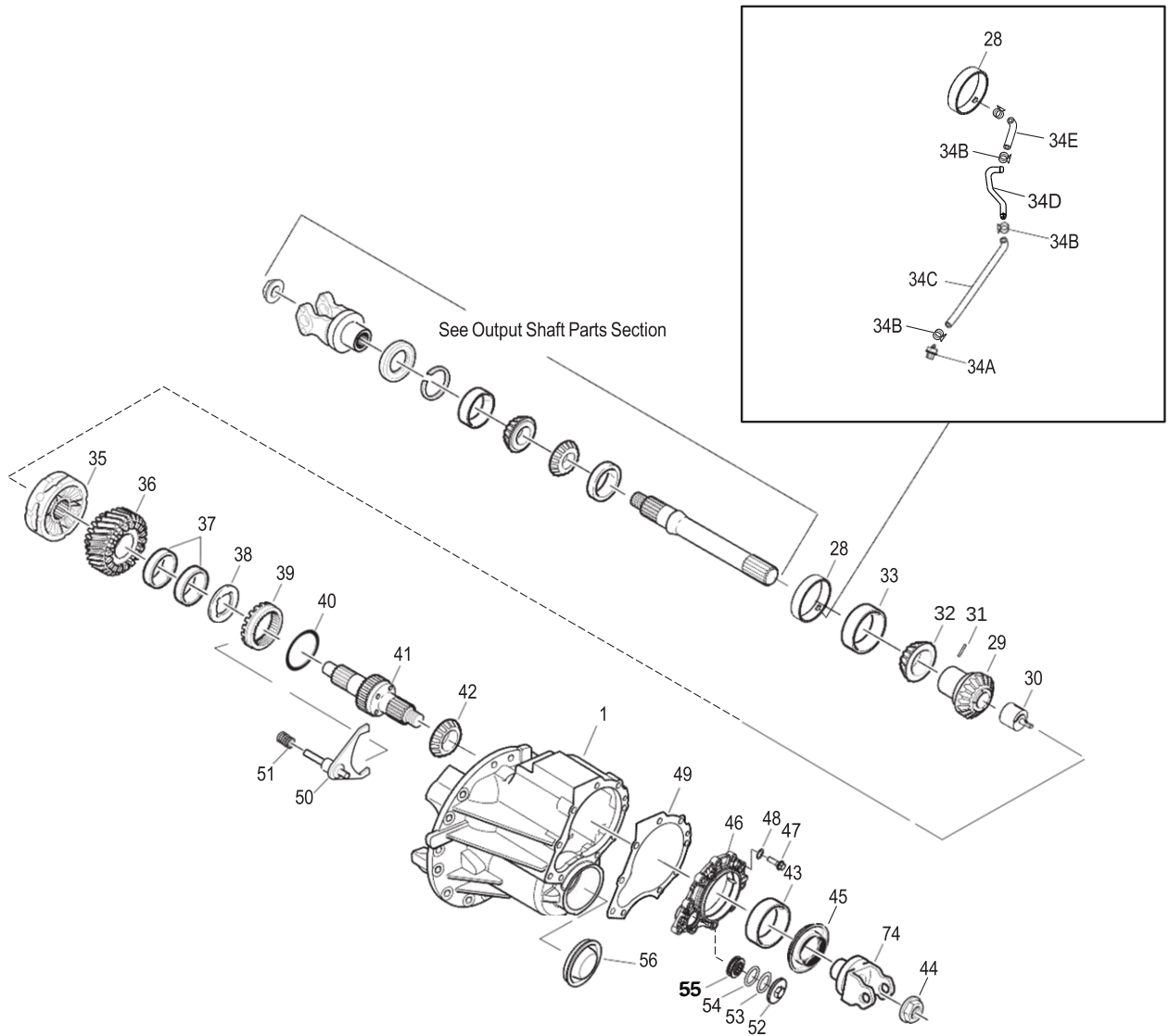
D155 / D155D Forward Axle Exploded View



WHEEL DIFFERENTIAL LOCK
SHIFT PARTS

Single Reduction-Forward Axle
AdvanTEK® 40

D155, D155P, D155D, D155DP Forward Axle Power Divider



Single Reduction-Forward Axle AdvanTEK® 40

D155/D155D - Forward Axle

Item	Description	Qty	D155 D155P	D155D D155DP	Notes
	KIT-BEARING & SEAL	1	504358	504359	Contents Identified with • Also See Page 22
1a	Carrier Sub-Assy - Standard	1	134659	-----	
1b	Carrier Sub-Assy - Diff Lock	1	-----	134653	
2	Capscrew - Carrier	4	134490	134490	
3	Washer	4	134491	134491	
4	Cotter Pin	2	090873•	090873•	
5	Bushing-Dowel	2	134492	134492	
6	Diff Case-Plain Side	1	10016954	134571	10016954 Replaces 134578
7	Brg Adjuster-Plain Side	1	134608	128616	
8	Bearing Cup-Plain Side	1	134301•	134332•	
9	Bearing Cone-Plain Side	1	134300•	134331•	
10	Brg Adjuster-Flange Side	1	133873	133873	
11	Bearing Cup-Flange Side	1	135073•	135073•	
12	Bearing Cone-Flange Side	1	135072•	135072•	
	KIT - WHEEL DIFF SIDE GEAR	1	504312	504312	Includes Items 13-18
13	Side Gear - 41 Inv	2	127368	127368	
14	Side Pinion	4	133784	133784	
15	Thrust Washer - Pinion	4	129305	129305	
16	Thrust Washer - Side Gear	1	127386	127386	
17	Shaft Pin - Differential	2	134152	134152	
18	Shaft Pin - Differential	1	134151	134151	
19	Pin-Dowel	2	130605	130605	
20	Dowel-Gear to Case	2	132821	132821	
21	Bearing Cone - Inner Pinion	1	10011393•	10011393•	
22	Bearing Cup - Inner Pinion	1	10011394•	10011394•	
23	Bearing Cone - Outer Pinion	1	139971•	139971•	
24	Bearing Cup - Outer Pinion	1	139972•	139972•	
25	Pinion Helical Gear	1	10019031	10019031	Replaces 134758
26	KIT - PINION BRG SHIM	1	504362	504362	See complete listing on pg 19-21 Includes 1 each of 26a-26e
26a	Shim - Spacer .065"	AR	135056	135056	
26b	Shim - Spacer .067"	AR	135058	135058	
26c	Shim - Spacer .069"	AR	135060	135060	
26d	Shim - Spacer .075"	AR	135066	135066	
26e	Shim - Spacer .076"	AR	135067	135067	
27	Nut-Pinion	1	131095	131095	
28a	Seal Manifold Assy - Non Pump	1	134663	134663	Non-Pump
29a	Output Side Gear - Non Pump	1	10038655	10038655	Replaces 134768; Non-Pump; Refer to HAXL- PNI-096R2
	KIT-MANIFOLD PARTS-PUMP MODELS	1	504315	504315	Pump Models - Includes 28b, 34a-34e
28b	Seal Manifold Assy - NSS	1	134675 NSS	134675 NSS	Order kit 504315; Pump Models
	KIT - LUBE PUMP w/OUTPUT SIDE GEAR	1	504364-1	504364-1	Replaces 504364; Pump Models - Includes 29b-31
29b	Output Side Gear - Pump Model - NSS	1	10038686	10038686	134770 OBS, now use 10038686 ref HAXL-
30	Lube Pump #131368	1	131368	131368	Pump Models
31	Pump Locking Pin	1	131541	131541	Pump Models Only
32	Bearing Cone - O/P Side Gear	1	134979•	134979•	
33	Bearing Cup - O/P Side Gear	1	134980•	134980•	

Single Reduction-Forward Axle AdvanTEK® 40

Item	Description	Qty	D155 D155P	D155D D155DP	Notes
34a	Filter Screen Assy	1	133964	133964	Pump Models Only
34b	Clamp	4	129338	129338	Pump Models Only
34c	Lube Hose-Long	1	10011131	10011131	Pump Models Only
34d	Inlet Tube	1	10009605	10009605	Pump Models Only
34e	Lube Hose-Short	1	10011130	10011130	Pump Models Only
35	Inter-Axle Diff Assy	1	10094015	10094015	139965 OBS, use 10094015 ref HAXL-0096R2
36	Helical Side Gear & Bushing	1	10019008	10019008	134692 OBS, now use 10019008 ref HAXL-PNI-0096R2
37	Bushing-Helical Gear	2	10016044	10016044	Replaces production# 131344
38	Thrust Washer - Helical Gear	1	132440•	132440•	
39	Lockout Sliding Clutch	1	131332	131332	
40	Oil Seal-V-Ring	1	131333•	131333•	
41a	KIT - INPUT SHAFT - NON PUMP	1	504307	504307	Shaft# 134666 (includes item 44)
41b	KIT - INPUT SHAFT - PUMP MDLS	1	504308	504308	Shaft# 134678 (includes item 44)
42	Input Shaft Bearing Cone	1	139973•	139973•	
43	Input Shaft Bearing Cup	1	139974•	139974•	
	KIT - OIL SEAL & NUT (INPUT)	1	504320	504320	Includes Items 44-45
44	Nut - Input	1	131095	131095	
45	Seal - Input	1	134583•	134583•	
	KIT - INPUT COVER	1	504318	504318	Includes Items 46-48, 49b-49d
46	Input Cover	1	134672	134672	
47	Cover Capscrew	9	10000875	10000875	
48	Washer	9	130877	130877	
	KIT - SHIM (INPUT COVER)	1	504319	504319	Includes 2 each of 49a-49e
49a	Shim - .003"	AR	134712	134712	
49b	Shim - .005"	AR	134711	134711	See kit 504319
49c	Shim - .010"	AR	134710	134710	See kit 504319
49d	Shim - .020"	AR	134709	134709	See kit 504319
49e	Shim - .030"	AR	134708	134708	
	KIT - SHIFT FORK & SPRING	1	504314	504314	Includes Items 50-51
50	Shift Fork Assy - NSS	1	134668 NSS	134668 NSS	Order kit 504314 or 504311
51	Compression Spring	1	129859	129859	
	KIT - AIR LOCKOUT REPAIR-COMP w/FORK	1	504311	504311	Includes Items 50-55
	KIT - AIR LOCKOUT REPAIR	1	512892	512892	Includes Items 52-55
52	Piston Cover	1	131096	131096	
53	O-Ring-Piston Cover	1	131665	131665	
54	O-Ring-Piston	1	210180	210180	
55	Piston	1	131232	131232	
56	Plug-Carrier	1	10039186•	10039186•	Replaces 131544
57	KIT - RING GEAR & DRIVE PINION	1 See ring gear and pinion section page 28-29			
	KIT - RING GEAR BOLTS	1	504305	504305	Includes qty-12 of item 58
58	Ring Gear Bolt	12	10000182	10000182	
59	KIT - PINION BRG SPACER	AR	504041	504041	See complete listing on pg 19-21
60	Fixed Clutch Gear	1	-----	128627	
61	Snap Ring	1	-----	129433	
62	Sliding Clutch	1	-----	126840	

**Single Reduction-Forward Axle
AdvanTEK® 40**

D155, D155P, D155D, D155DP Forward Axle (Continued)

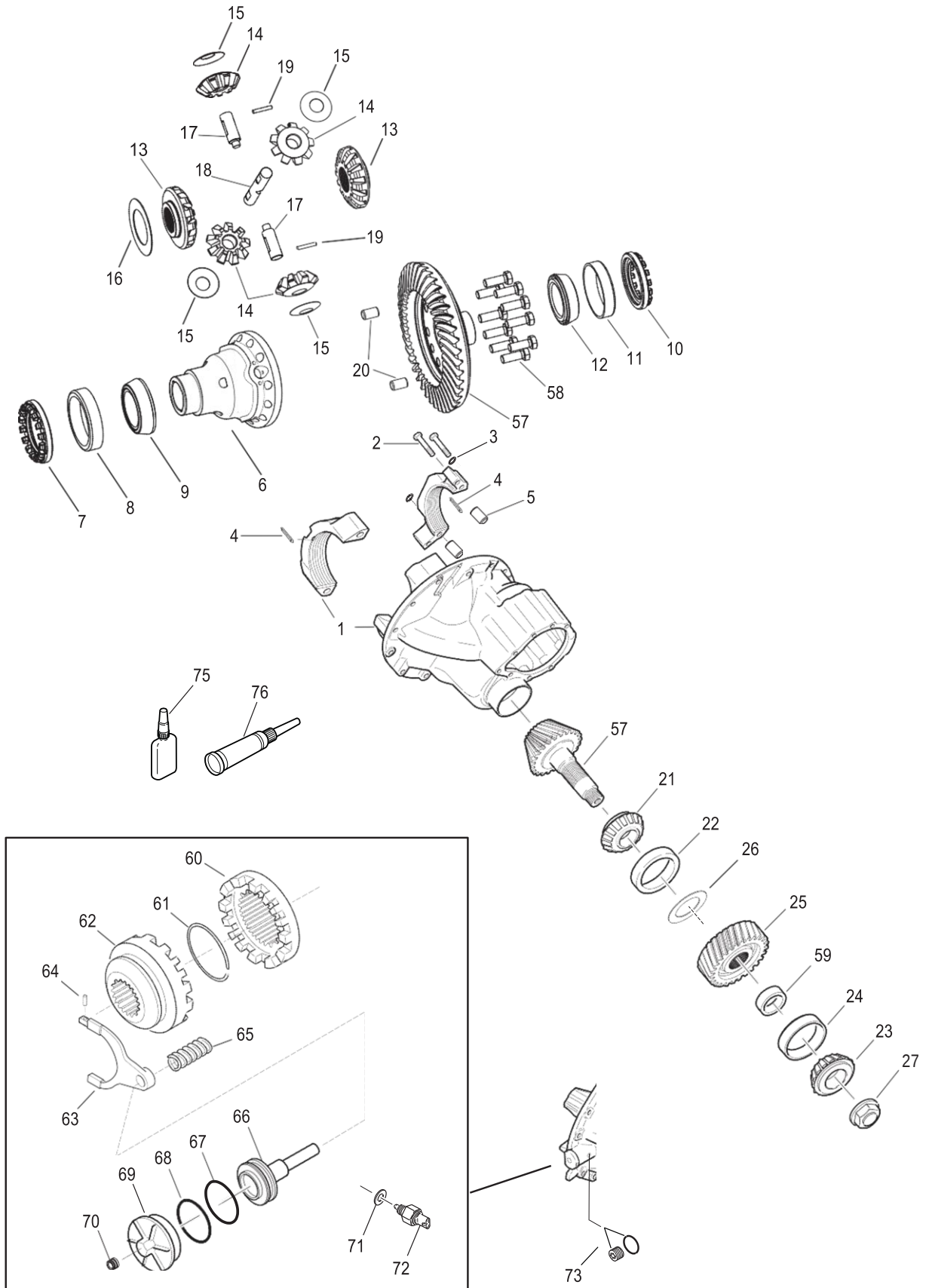
Item	Description	Qty	D155 D155P	D155D D155DP	Notes
	KIT - SHIFT FORK & PIN		-----	504316	Includes 63-64
63	Shift Fork - NSS	1	-----	134585 NSS	Order kit 504316
64	Pin	1	-----	210020	
	KIT - DIFF LOCK SHIFT PARTS		-----	504313	Includes 65-69
65	Spring-Compression	1	-----	131102	
66	Push Rod Assy	1	-----	134587	
67	O-Ring - Piston	1	-----	210180	
68	O-Ring - Cap Cover	1	-----	131665	
69	Piston Cover (Diff Lock Cap)	1	-----	131096	
70	Plug - Cap	1	-----	127195	
71	Washer - Switch	1	-----	129034	
72	Switch - Selector	1	-----	129035	
73	O-Ring & Plug Assy	1	-----	131487	
74	Yoke-Input	1	See yoke section page 32		
75	Thread Adhesive-Loctite 271	1	129293	129293	
76	RTV - Sealant 3oz	1	107276S•	107276S•	

NSS - Not Sold Separately

Summary of Kits and Assemblies

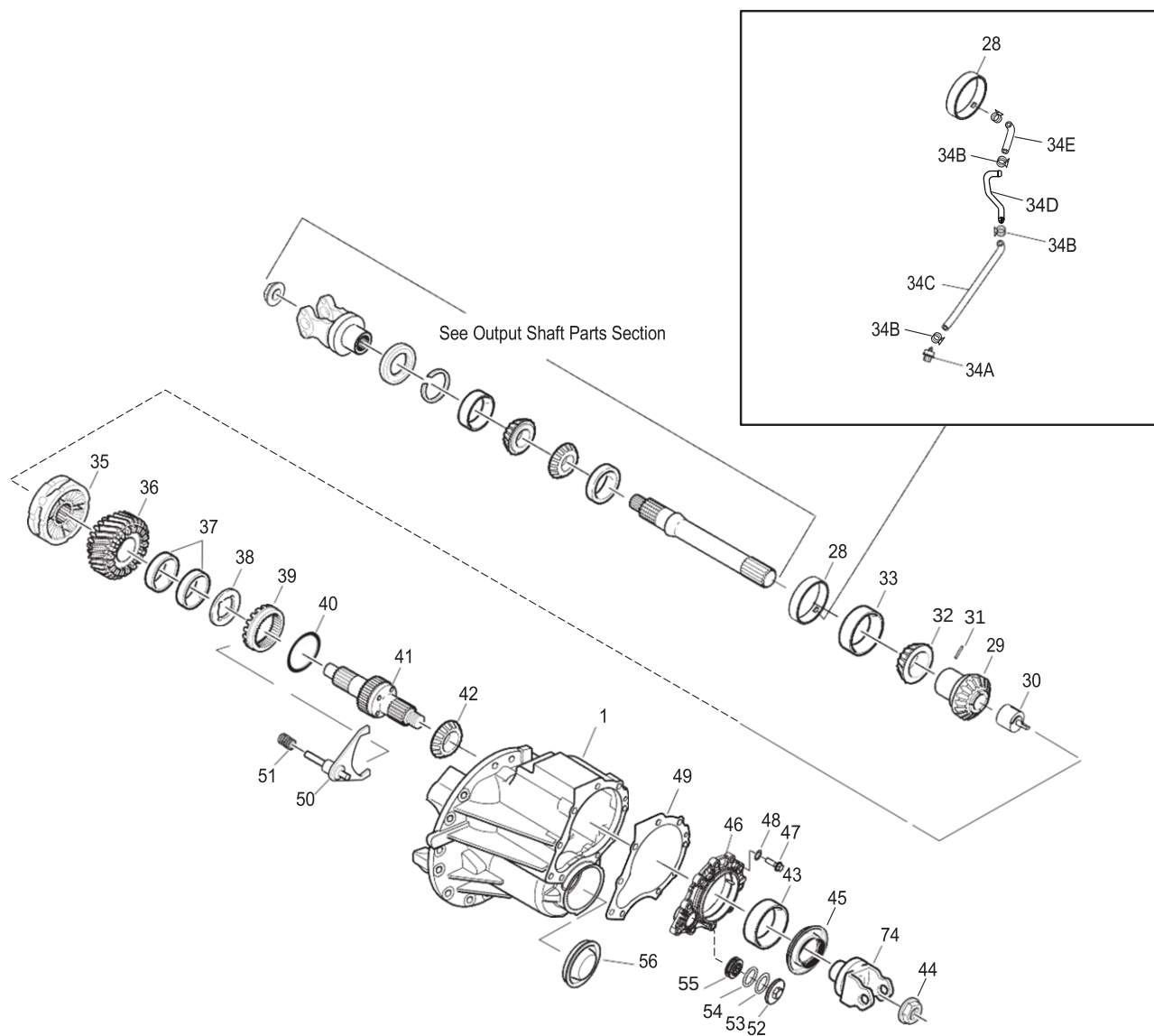
Kit-Air Lockout - Complete w/ Fork	504311	Includes: 50-55
Kit-Air Lockout Repair	512892	Includes: 52-55
Kit-Shift Fork & Compression Spring	504314	Includes: 50-51

D156(P) / D156D(P) Forward Axle Exploded View



WHEEL DIFFERENTIAL LOCK
SHIFT PARTS

Single Reduction-Forward Axle AdvanTEK® 40



Single Reduction-Forward Axle AdvanTEK® 40

D156(P), D156D(P) Forward Axle

Item	Description	Qty	D156 D156P	D156D D156DP	Notes
	KIT-BEARING & SEAL	1	504360	504361	Contents Identified with • Also See Page 22
1a	Carrier Sub-Assy - Standard	1	134659	-----	
1b	Carrier Sub-Assy - Diff Lock	1	-----	134653	
2	Capscrew - Carrier	4	134490	134490	
3	Washer	4	134491	134491	
4	Cotter Pin	2	090873	090873	
5	Bushing-Dowel	2	134492	134492	
6	Diff Case-Plain Side	1	10016954	134571	10016954 Replaces 134578
7	Brg Adjuster-Plain Side	1	134608	128616	
8	Bearing Cup-Plain Side	1	134301•	134332•	
9	Bearing Cone-Plain Side	1	134300•	134331•	
10	Brg Adjuster-Flange Side	1	133873	133873	
11	Bearing Cup-Flange Side	1	135073•	135073•	
12	Bearing Cone-Flange Side	1	135072•	135072•	
	KIT - WHEEL DIFF SIDE GEAR	1	504312	504312	Includes Items 13-18
13	Side Gear - 41 Inv	2	127368	127368	
14	Side Pinion	4	133784	133784	
15	Thrust Washer - Pinion	4	129305	129305	
16	Thrust Washer - Side Gear	1	127386	127386	
17	Shaft Pin - Differential	2	134152	134152	
18	Shaft Pin - Differential	1	134151	134151	
19	Pin-Dowel	2	130605	130605	
20	Dowel-Gear to Case	2	132821	132821	
21	Bearing Cone - Inner Pinion	1	10011393•	10011393•	
22	Bearing Cup - Inner Pinion	1	10011394•	10011394•	
23	Bearing Cone - Outer Pinion	1	139971•	139971•	
24	Bearing Cup - Outer Pinion	1	139972•	139972•	
25	Pinion Helical Gear	1	10019031	10019031	Replaces 134758
26	KIT - PINION BRG SHIM	1	504362	504362	See complete listing on pg 19-21 Includes 1 each of 26a-26e
26a	Shim - Spacer .065"	AR	135056	135056	
26b	Shim - Spacer .067"	AR	135058	135058	
26c	Shim - Spacer .069"	AR	135060	135060	
26d	Shim - Spacer .075"	AR	135066	135066	
26e	Shim - Spacer .076"	AR	135067	135067	
27	Nut-Pinion	1	131095	131095	
28a	Seal Manifold Assy - Non Pump	1	134663	134663	Non-Pump
29a	Output Side Gear - Non Pump	1	132443 OBS	132443 OBS	Non-Pump
	KIT - MANIFOLD PARTS - PUMP MODELS	1	504315	504315	Pump Models - Includes 28b, 34a-34e
28b	Seal Manifold Assy - NSS	1	134675 NSS	134675 NSS	Order kit 504315; Pump Models
	KIT - LUBE PUMP w/OUTPUT SIDE GEAR	1	504365 OBS	504365 OBS	Pump Models - Includes 29b-31
29b	Output Side Gear - Pump Model	1	10026796	10026796	Replaces 132061; Pump Models (HAXL-0096R2)
30	Lube Pump #131368	1	131368	131368	Pump Models
31	Pump Locking Pin	1	131541	131541	Pump Models Only
32	Bearing Cone - O/P Side Gear	1	134979•	134979•	
33	Bearing Cup - O/P Side Gear	1	134980•	134980•	

Single Reduction-Forward Axle AdvanTEK® 40

D156(P), D156D(P) Forward Axle (Continued)

Item	Description	Qty	D156 D156P	D156D D156DP	Notes
34a	Filter Screen Assy	1	133964	133964	Pump Models Only
34b	Clamp	4	129338	129338	Pump Models Only
34c	Lube Hose-Long	1	10011131	10011131	Pump Models Only
34d	Inlet Tube	1	10009605	10009605	Pump Models Only
34e	Lube Hose-Short	1	10011130	10011130	Pump Models Only
35	Inter-Axle Diff Assy	1	10085729	10085729	Replaces 134192 (ref HAXL-PNI-0096R2)
36	Helical Side Gear & Bushing	1	134684 OBS	134684 OBS	gear# 134761-nss
37	Bushing-Helical Gear	2	085991	085991	Replaces production# 085990
38	Thrust Washer - Helical Gear	1	132440•	132440•	
39	Lockout Sliding Clutch	1	131332	131332	
40	Oil Seal-V-Ring	1	131333•	131333•	
41c	KIT - INPUT SHAFT - NON PUMP	1	504309	504309	Shaft# 134682 (includes #44)
41d	KIT - INPUT SHAFT - PUMP MDLS	1	504310	504310	Shaft# 134690 (includes #44)
42	Input Shaft Bearing Cone	1	134303•	134303•	
43	Input Shaft Bearing Cup	1	134304•	134304•	
	KIT - OIL SEAL & NUT (INPUT)	1	504321	504321	Includes items 44-45
44	Nut - Input	1	128049	128049	
45	Seal - Input	1	2019185•	2019185•	
	KIT - INPUT COVER	1	504317	504317	Includes Items 46-48, 49b-49d
46	Input Cover	1	134686	134686	
47	Cover Capscrew	9	10000875	10000875	
48	Washer	9	130877	130877	
	KIT - SHIM (INPUT COVER)	1	504319	504319	Includes 2 each of 49a-49e
49a	Shim - .003"	AR	134712	134712	
49b	Shim - .005"	AR	134711	134711	
49c	Shim - .010"	AR	134710	134710	
49d	Shim - .020"	AR	134709	134709	
49e	Shim - .030"	AR	134708	134708	
	KIT - SHIFT FORK & SPRING	1	504314	504314	Includes Items 50-51
50	Shift Fork Assy - NSS	1	134668 NSS	134668 NSS	Order kit 504314 or 504311
51	Compression Spring	1	129859	129859	
	KIT - AIR LOCKOUT REPAIR-COMP w/FORK	1	504311	504311	Includes Items 50-55
	KIT - AIR LOCKOUT REPAIR	1	512892	512892	Includes Items 52-55
52	Piston Cover	1	131096	131096	
53	O-Ring	1	131665	131665	
54	Piston	1	131232	131232	
55	O-Ring	1	210180	210180	
56	Plug-Carrier	1	10039186•	10039186•	Replaces 131544
57	KIT - RING GEAR & DRIVE PINION	1 See ring gear and pinion section page 28-29			
	KIT - RING GEAR BOLTS	1	504305	504305	Includes qty-12 of item 58
58	Ring Gear Bolt	12	10000182	10000182	
59	KIT - PINION BRG SPACER	AR	504041	504041	See complete listing on pg 19-21
60	Fixed Clutch Gear	1	-----	128627	
61	Snap Ring	1	-----	129433	
62	Sliding Clutch	1	-----	126840	

Single Reduction-Forward Axle AdvanTEK® 40

Item	Description	Qty	D156 D156P	D156D D156DP	Notes
	KIT - SHIFT FORK & PIN		-----	504316	Includes 63-64
63	Shift Fork - NSS	1	-----	134585 NSS	Order kit 504316
64	Pin	1	-----	210020	
	KIT - DIFF LOCK SHIFT PARTS		-----	504313	Includes 65-69
65	Spring-Compression	1	-----	131102	
66	Push Rod Assy	1	-----	134587	
67	O-Ring - Piston	1	-----	210180	
68	O-Ring - Cap Cover	1	-----	131665	
69	Piston Cover (Diff Lock Cap)	1	-----	131096	
70	Plug - Cap	1	-----	127195	
71	Washer - Switch	1	-----	129034	
72	Switch - Selector	1	-----	129035	
73	O-Ring & Plug Assy	1	-----	131487	
74	Yoke-Input	1	See yoke section page 32		
75	Thread Adhesive-Loctite 271	AR	129293	129293	
76	RTV - Sealant 3oz	AR	107276S•	107276S•	

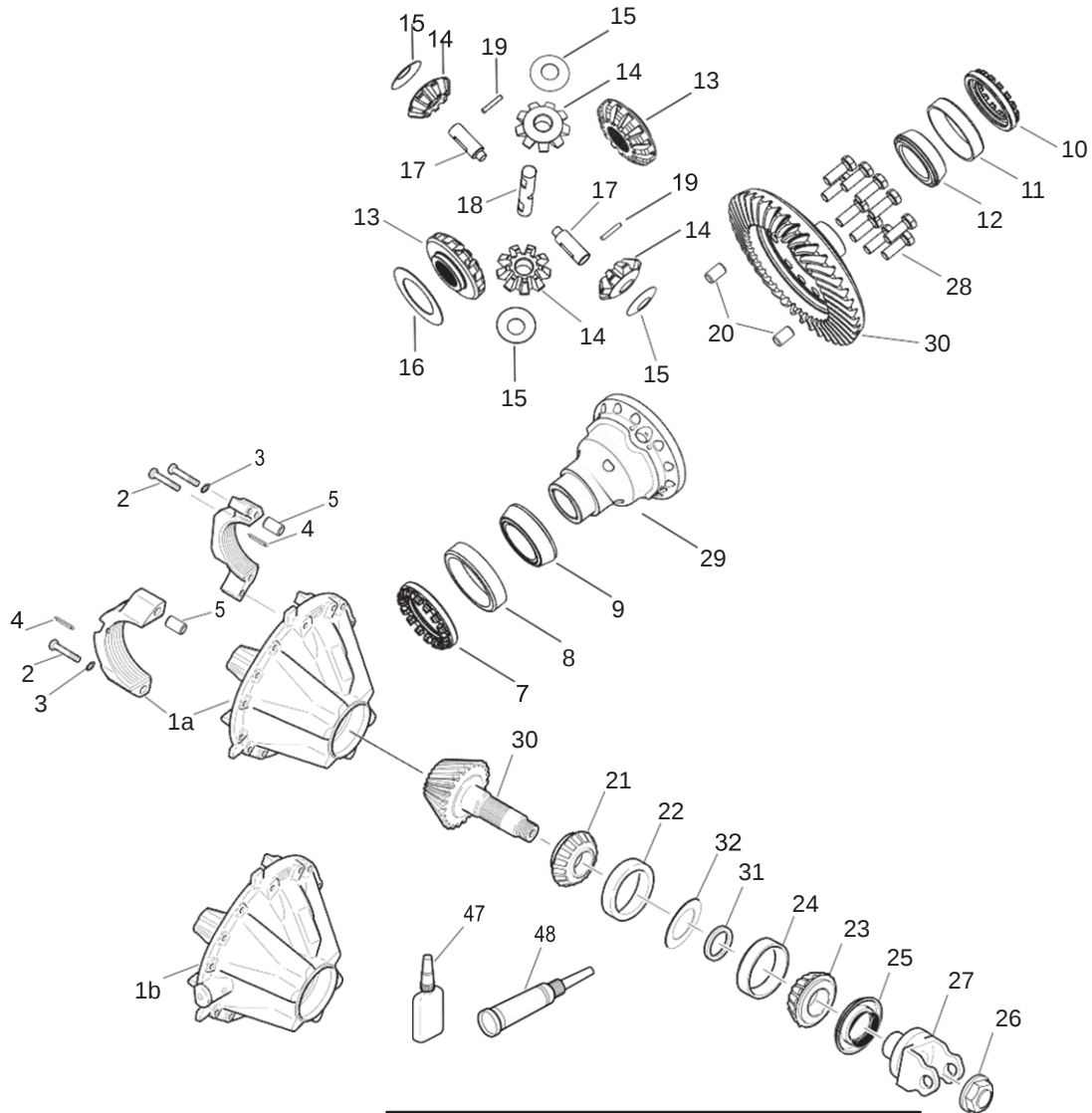
NSS - Not Sold Separately

Summary of Kits and Assemblies

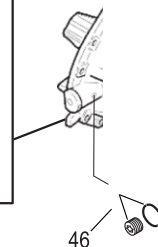
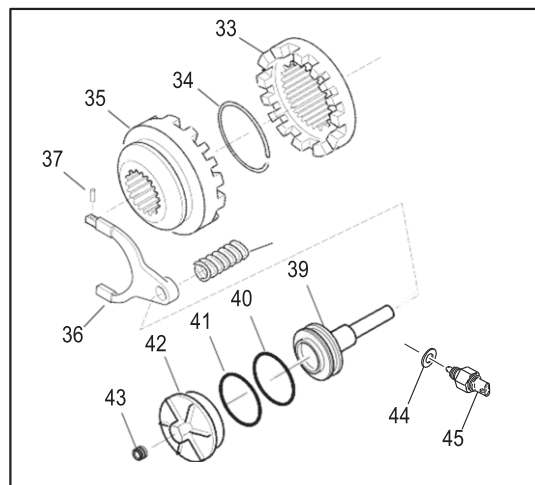
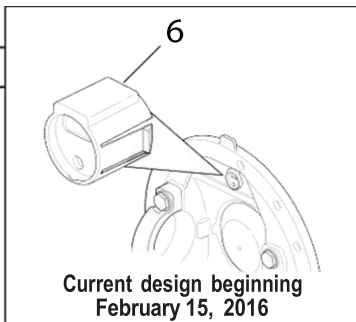
Kit-Air Lockout - Complete w/ Fork	504311	Includes: 50-55
Kit-Air Lockout Repair	512892	Includes: 52-55
Kit-Shift Fork & Compression Spring	504314	Includes: 50-51

Single Reduction - Rear Axle AdvanTEK® 40

Single Reduction - Rear Axle



1A
1B



Single Reduction - Rear Axle AdvanTEK® 40

Single Reduction - Rear Axles

Item	Description	Qty	R155 R156	R155D R156D	Notes
	KIT - BEARING (models before 2.15.16)	1	504299*	n/a	Models made before 2.15.16 Note-1
	KIT - BEARING (models after 2.15.16)	1	504327•	504328•	Models made After 2.15.16 Note-1
Contents Identified with • or * Also See Page 23					
	KIT - BEARING		505329		Includes Items 21-26 & 32a-32d
	KIT - Carrier Sub-Assy	1	504356	504357	Includes Items 1A/1B, 2-6
1A	Diff Carr Sub-Assy – Standard	1	10031215	-----	Mdls Made After 2.15.16 Note-1
1B	Diff Carr Sub-Assy - Diff Lock- NSS	1	-----	10032394 NSS	Order kit 504357. Mdls Made After 2.15.16 Note-1
1AX	Diff Carr Sub-Assy - Standard	1	134588 OBS	-----	X= Early design part-nla - Note-1
1BX	Diff Carr Sub-Assy - Diff Lock	1	-----	134483 OBS	X= Early design part-nla - Note-1
2	Capscrew-Hex	4	134490	134490	
3	Washer-Flat	4	134491	134491	
4	Cotter Pin	2	090873•*	090873•	
5	Bushing-Dowel	2	134492	134492	
6	Plug-Lube	1	10029474•*	10029474•	Used only on Mdls After 2.15.16 Note-1
7	Brg Adjuster-Plain Side	1	134608	128616	
8	Bearing Cup-Plain Side	1	134301•*	134332•	
9	Bearing Cone-Plain Side	1	134300•*	134331•	
10	Brg Adjuster-Flange Side	1	133873	133873	
11	Bearing Cup-Flange Side	1	135073•*	135073•	
12	Bearing Cone-Flange Side	1	135072•*	135072•	
	KIT - WHEEL DIFF SIDE GEAR	1	504312	504312	Includes Items 13-19
13	Side Gear - 41 Inv	2	127368	127368	
14	Side Pinion	4	133784	133784	
15	Thrust Washer - Pinion	4	129305	129305	
16	Thrust Washer - Side Gear	1	127386	127386	
17	Shaft Pin - Differential	2	134152	134152	
18	Shaft Pin - Differential	1	134151	134151	
19	Pin-Dowel	2	130605	130605	
20	Dowel-Gear to Case	2	132821	132821	
21	Pinion Bearing Cone - Inner	1	139968*	139968	Early mdls made before 2.15.16 Note-1
22	Pinion Bearing Cup - Inner	1	139969*	139969	Early mdls made before 2.15.16 Note-1
23	Pinion Bearing Cone - Outer	1	134609*	134609	Early mdls made before 2.15.16 Note-1
24	Pinion Bearing Cup - Outer	1	139974*	139974	Early mdls made before 2.15.16 Note-1
21	Pinion Bearing Cone - Inner	1	10021815•	10021815•	Current mdls made after 2.15.16
22	Pinion Bearing Cup - Inner	1	10021816•	10021816•	Current mdls made after 2.15.16
23	Pinion Bearing Cone - Outer	1	10048107•	10048107•	Replaces 10032378; Current mdls made after 2.15.16
24	Pinion Bearing Cup - Outer	1	10032379•	10032379•	Current mdls made after 2.15.16
	KIT - OIL SEAL & PINION NUT		504320	504320	Includes items 25-26
25	Oil Seal	1	134583•*	134583•	
26	Nut - Pinion	1	131095	131095	
27	Yoke - Pinion	1	See yoke section page 32		
	KIT - RING GEAR BOLTS	1	504305	504305	Includes qty-12 of item 28
28	Ring Gear Bolt (capscrew)	12	10000182	10000182	
29	Diff Case - Plain Side	1	10016953	134572 OBS	Replaces 134577
30	KIT - RING GEAR & DRIVE PINION	1	See ring gear and pinion section page 28-29		
31	KIT - PINION BRG SPACER	AR	504329	504329	Note-1 See complete listing on pg 19-21

Single Reduction - Rear Axles AdvanTEK® 40

Item	Description	Qty	R155 R156	R155D R156D	Notes
32	KIT - PINION BRG SHIM		504363	504363	Note-1 See complete listing on pg 19-21 Includes 1 each of 32a-32d
32a	Shim - Spacer .066"/1.677 mm	AR	10023040	10023040	
32b	Shim - Spacer .067"/1.702 mm	AR	10023041	10023041	
32c	Shim - Spacer .068"/ 1.728 mm	AR	10023042	10023042	
32d	Shim - Spacer .069"/1.753 mm	AR	10023043	10023043	
33	Fixed Clutch Gear	1	-----	128627	
34	Snap Ring	1	-----	129433	
35	Sliding Clutch	1	-----	126840	
	KIT - SHIFT FORK & PIN		-----	504316	Includes 36-37
36	Shift Fork - NSS	1	-----	134585 NSS	Order kit 504316
37	Pin	1	-----	210020	
	KIT - DIFF LOCK SHIFT PARTS		-----	504313	Includes 38-42
38	Spring-Compression	1	-----	131102	
39	Push Rod Assy	1	-----	134587	
40	O-Ring - Piston	1	-----	210180	
41	O-Ring - Cap Cover	1	-----	131665	
42	Piston Cover (Diff Lock Cap)	1	-----	131096	
43	Plug - Cap	1	-----	127195	
44	Washer - Switch	1	-----	129034	
45	Switch - Selector	1	-----	129035	
46	O-Ring & Plug Assy	1	-----	131487	
47	Thread Adhesive-Loctite 271	AR	129293	129293	
48	RTV - Sealant 3oz	AR	107276S*	107276S*	

NSS - Not Sold Separately

Note-1 - A pinion bearing design change to Rear-Rear models began on 2.15.16. The "early model" design carrier sub-assy part is not available for service. A replacement service carrier must be purchased if the carrier sub-assy requires replacement. Additionally other related parts unique to "EARLY MODELS" such as certain bearing cups & cones, pinion bearing spacers and shims are available for repairs. Customers should be sure to check the carrier serial number or part numbers off the individual parts before ordering any replacement part.

Bearing Spacers

Variable pinion bearing spacers and shims are shown below. Select the proper kits or individual parts to attain the correct settings for the carrier you are working on. Follow all spacer and shim procedures for according to the Dana Service Manual AXSM-0049. The Spicer kits shown offer the best value for these type parts.

PINION BRG SPACER KIT: 504041

(includes items w/*)

Models: All D155 & D156 Models

Dana P/N	Spacer Thickness (mm)
131376	21.760
132838	21.775
131377	21.790
132839	21.805
131378*	21.820
132840	21.835
131379	21.850
132841	21.865
131380	21.880
132842	21.895
131381	21.910
132843	21.925
131382	21.940
132844*	21.955
131383	21.970
132845	21.985
131384	22.000
131385	22.015
131386	22.030
131387	22.045
131388	22.060
131389	22.075
131390	22.090
131391*	22.105
131392 OBS	22.120
131393*	22.135
131394	22.150
131395	22.165
131396	22.180
131397	22.195
131398 OBS	22.210
131399*	22.225
131400*	22.240

131401	22.255
131402	22.270
131403	22.285
131404	22.300
131405	22.315
131406	22.330
131407	22.345
131408*	22.360
131409*	22.375
131410	22.390
131411	22.405
131412	22.420
131413*	22.435
131414	22.450
131415	22.465
132846	22.470
131416	22.495
132847	22.510
131417	22.525
132848	22.540
131418	22.555
132849	22.570
131419	22.585
132850	22.600
131420	22.615
132851	22.630
131421*	22.645
132852	22.660
131422 OBS	22.675
132853	22.680
131423	22.705

PINION BEARING SPACERS - R155 & R156

Models PRODUCED BEFORE 2.15.16

Note: Pinion Bearing Spacers for early models only available as individual item

Dana P/N	Spacer Thickness (mm)
134503 OBS	14.570
134506 OBS	14.620
134507 OBS	14.640
134513 OBS	14.700
134514 OBS	14.710
134515 OBS	14.730
134516 OBS	14.740
134517 OBS	14.760
134520 OBS	14.800
134521 OBS	14.820
134522 OBS	14.830
134523 OBS	14.850
134524 OBS	14.860
134538 OBS	15.070

Bearing Spacers (Continued)

Variable pinion bearing spacers and shims are shown below. Select the proper kits or individual parts to attain the correct settings for the carrier you are working on. Follow all spacer and shim procedures for according to the Dana Service Manual AXSM-0049. The Spicer kits shown offer the best value for these type parts. PINION BEARING SPACERS - R155 & R156 Models PRODUCED on or AFTER 2.15.16

PINION BRG SPACER KIT: 504329

(includes items w/*)

Dana P/N	Spacer Thickness (mm)
10032070	17.689
10032071	17.719
10032080	17.869
10032081	17.884
10032085	17.944
10032086*	17.959
10032090	18.019
10032091	18.034
10032092*	18.049
10032096*	18.109
10032097	18.124
10032098	18.139
10032099*	18.154
10032100	18.169
10032101*	18.184
10032102	18.199
10032103	18.214
10032104*	18.229
10032105*	18.244
10032110	18.339
10032112*	18.399

PINION BEARING SHIMS - All D155 & D156 Models

PINION BRG SHIM KIT: 504362

(includes items w/*)

Dana P/N	Spacer Thickness (mm)
135046	.055/1.396
135047	.056/1.421
135048	.057/1.447
135049	.058/1.472
135050	.059/1.498
135051	.060/1.524
135052	.061/1.549
135053	.062/1.575
135054	.063/1.600
135055	.064/1.626
135056*	.065/1.651
135057	.066/1.677
135058*	.067/1.702
135059	.068/1.728
135060*	.069/1.753
135061	.070/1.779
135062	.071/1.804
135063	.072/1.830
135064	.073/1.855
135065HX	.074/1.881
135066*	.075/1.906
135067*	.076/1.932
135068	.077/1.957
135069	.078/1.983
135070	.079/2.008

PINION BEARING SHIMS - R155 & R156 Models PRODUCED BEFORE 2.15.16

Note: Pinion shims for early models only available as individual item

Dana P/N	Spacer Thickness (mm)
135025 OBS	.060/1.524
135026 OBS	.061/1.549
135027 OBS	.062/1.575
135028 OBS	.063/1.600
135029 OBS	.064/1.626
135030 OBS	.065/1.651
135031 OBS	.066/1.677
135032 OBS	.067/1.702
135033 OBS	.068/1.728
135034 OBS	.069/1.753
135035 OBS	.070/1.779
135036 OBS	.071/1.804
135037 OBS	.072/1.830
135038 OBS	.073/1.855
135039 OBS	.074/1.881
135040 OBS	.075/1.906
135041 OBS	.076/1.932
135042 OBS	.077/1.957
135043 OBS	.078/1.983
135044 OBS	.079/2.008
135045 OBS	.080/2.033

PINION BEARING SHIMS - R155 & R156 Models PRODUCED on or AFTER 2.15.16

PINION BRG SHIM KIT: 504363

(includes items w/*)

Dana P/N	Spacer Thickness (mm)
10023040*	.066/1.677
10023041*	.067/1.702
10023042*	.068/1.728
10023043*	.069/1.753

Bearing Kits

Bearing Kits

Forward Carrier Models

Part Description	Qty	504358	504359	504360	504361
		D155 D155P	D155D D155DP	D156 D156P	D156D D156DP
Cotter Pin	2	090873	090873	090873	090873
Bearing Cone - Diff Plain Half	1	134300	134331	134300	134331
Bearing Cup - Diff Plain Half	1	134301	134332	134301	134332
Bearing Cone - Diff Flange Half	1	135072	135072	135072	135072
Bearing Cup - Diff Flange Half	1	135073	135073	135073	135073
Bearing Cone - Inner Pinion	1	10011393	10011393	10011393	10011393
Bearing Cup - Inner Pinion	1	10011394	10011394	10011394	10011394
Bearing Cone - Outer Pinion	1	139971	139971	139971	139971
Bearing Cup - Outer Pinion	1	139972	139972	139972	139972
Bearing Cone - O/P Side Gear	1	134979	134979	134979	134979
Bearing Cup - O/P Side Gear	1	134980	134980	134980	134980
Bearing Cone - Input Shaft	1	139973	139973	134303	134303
Bearing Cup - Input Shaft	1	139974	139974	134304	134304
Thrust Washer - Helical Gear	1	132440	132440	132440	132440
Plug - Carrier	1	10039186	10039186	10039186	10039186
V-Ring Oil Seal	1	131333	131333	131333	131333
Oil Seal - Input	1	134583	134583	2019185	2019185
GasketCompound - RTV	1	107276S	107276S	107276S	107276S

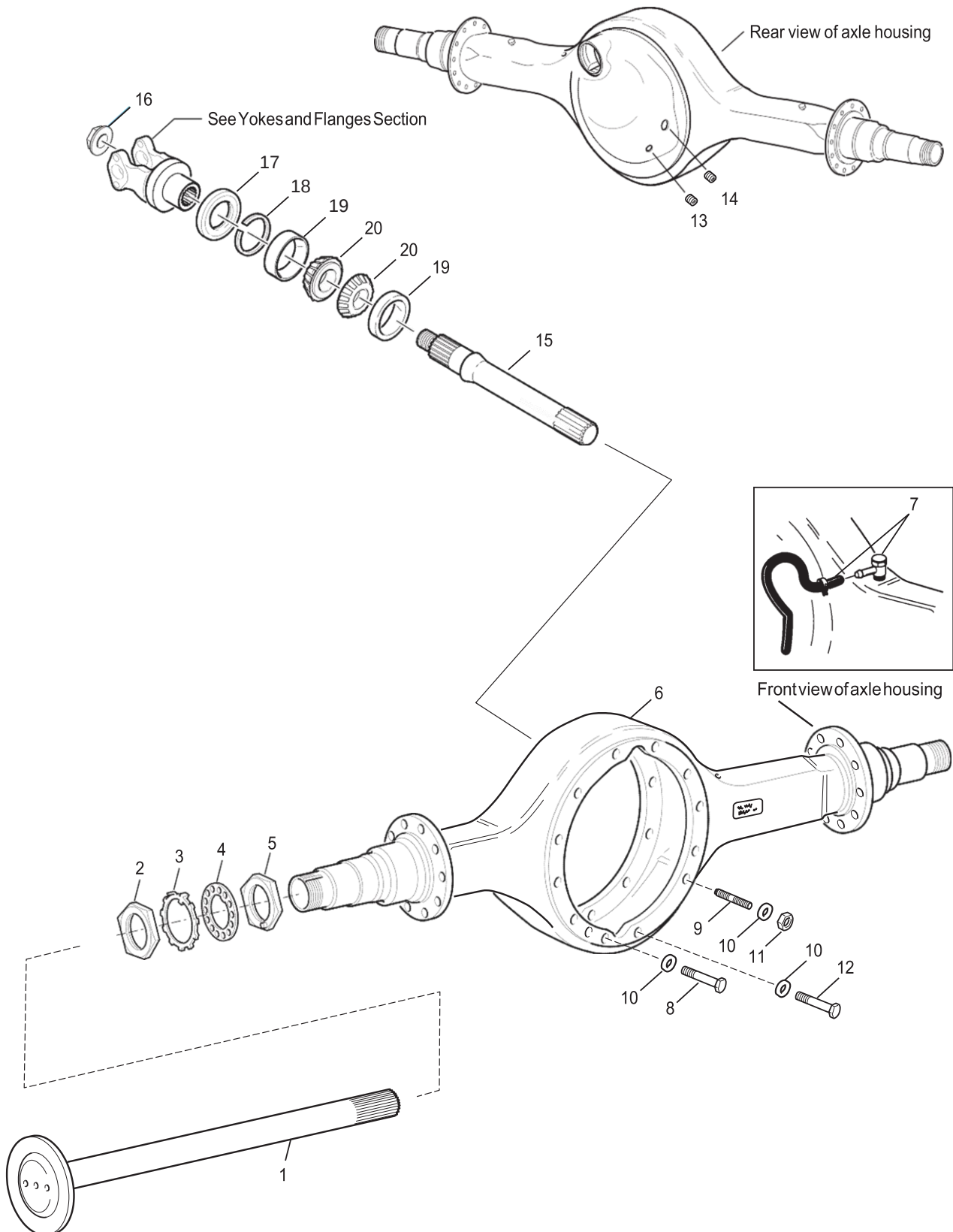
Bearing Kits

Single & Rear-Rear Carrier Models

Part Description	Qty	504299	504327	504328	505329
		R155 R156	NOTE-1 R155 R156	R155D R156D	R155 R156
		Before 2.15.16	After 2.15.16	After 2.15.16	
Cotter Pin	2	090873	090873	090873	
Bearing Cone - Diff Plain Half	1	134300	134300	134331	
Bearing Cup - Diff Plain Half	1	134301	134301	134332	
Bearing Cone - Diff Flange Half	1	135072	135072	135072	
Bearing Cup - Diff Flange Half	1	135073	135073	135073	
Bearing Cone - Inner Pinion	1	139968	10021815	10021815	10021815
Bearing Cup - Inner Pinion	1	139969	10021816	10021816	10021816
Bearing Cone - Outer Pinion	1	134609	10048107	10048107	10048107
Bearing Cup - Outer Pinion	1	139974	10032379	10032379	10032379
Plug-Lube	1	-----	10029474	10029474	
Oil Seal - Input	1	134583	134583	134583	134583
Gasket Compound - RTV	1	107276S	107276S	107276S	

NOTE 1: Early models made before 2.15.16 have different bearings than current production models made AFTER 2.15.16

Output Shaft and Axle Housing Parts



Output Shaft and Axle Housing Parts

Output Shaft and Axle Housing Parts

Item	Description	Qty	D155 D155P D155D D155DP	D156 D156P D156D D156DP	R155 R155D R156 R156D	Notes
1	Axle Shaft	2	see listing	see listing	see listing	See Axle Shafts page 27
	KIT - SPINDLE NUT	1	504158	504158	504158	Kit does one side. Includes 1 each of Items 2-5
2	Outer Bearing Adjuster Nut	2	119881	119881	119881	
3	Lockwasher - w/Tab	2	129132	129132	129132	
4	Dowel-Type Lockwasher	2	119883	119883	119883	
5	Inner Bearing Adjuster Nut	2	119882	119882	119882	
6	Axle Housing Assy	1	see listing	see listing	see listing	See Axle Housings page 26
7	KIT - U-TUBE BREATHER	1	507162	507162	507162	Includes Items 7a-7b
7a	Breather Assy-NSS	1	302706 NSS	302706 NSS	302706 NSS	Must buy kit
7b	Hose & Clamp Assy-NSS	1	129340 NSS	129340 NSS	129340 NSS	Must buy kit
	KIT - AXLE HSG FASTENER	1	504301	504301	-----	Includes Items 8-12a
	KIT - AXLE HSG FASTENER	1	-----	-----	504302	Includes Items 8-12c
	KIT - DRAIN BOLT	1	504324	504324	504326	Includes 2 each of Items 8 & 10 and item 22
8	Capscrew - Drain Hole	2	135017	135017	135016	Note 1
9	Stud	2	10008812	10008812	10008812	
10	Washer	14	130877	130877	130877	
11	Nut	2	127567	127567	127567	
12a	Capscrew 55mm	10	135017	135017	-----	
12b	Capscrew 55mm	8	-----	-----	135017	
12c	Capscrew 75mm	2	-----	-----	135016	
13	Sensor Plug - 1/2"	1	tbd	tbd	tbd	Only used in select models
14	Magnetic Filler Plug - 3/4"	1	129491	129491	129491	
	KIT - OUTPUT SHAFT	1	504303	504304	-----	Includes Items 15-16
15	Output Shaft		134680	134688	-----	
16	Locknut - Hex	1	128049	127588	-----	M39 x 1.5
	KIT - OP SEAL & NUT	1	504322	504323	-----	Includes Items 17-18
17	Oil Seal-Output	1	2023063	2022740	-----	
	KIT - O/P BEARINGS	1	504060	504306	-----	Includes Items 19-21
18	Snap Ring	1	134322	129594	-----	
19	Bearing Cup	2	139978	134992	-----	
20	Bearing Cone	2	139977	134991	-----	
21	Loctite 271 Adhesive .5ml	1	129293	129293	129293	Not Illustrated
22	RTV Sealant 3oz	1	107276S	107276S	107276S	Not Illustrated

NSS - Not Sold Separately

Note 1: While there is only one hole identified as the "Lube Drain Hole" the service kits also include an additional capscrew, which is from the next hole location.

Axle Housing

Axle Housing

Shown below is the Dana axle housing part number cross reference listing. This is for reference only as various OEM's use multiple part numbers. If the part number on your housing tag is not listed below, consult your OEM or local OEM dealer.

Axle Series	Production Part Number	Service Part Number	OEM	Design Features
D155	324498	324498	Kenworth	
D155	324566	324566	Kenworth	
D155	324568	324568	Kenworth	
D155	10000887	10000887*	Peterbilt/Kenworth	2078mm - 9.5mm Wall - Torque Rod Bkt#302166
D155	10000888	10000888	Peterbilt	
D155	10000891	10000891	Peterbilt/Kenworth	2078mm - 11mm Wall - Torque Rod Bkt#302166
D155	10000892	10000892	Peterbilt	
D155	10000899	10000899	Kenworth	2154mm - 9.5mm Wall - Torque Rod Bkt#302166; Replaces 10000895
D155	10000899	10000899	Peterbilt/Kenworth	
D155	10005341	10005341*	Navistar	2078mm - 9.5mm Wall - Torque Rod Bkt#302208
D155	10020584	10020584	Navistar	2078mm - 9.5mm Wall - Torque Rod Bkt#302208 - ABS Blocks
R155/R155D	324494 OBS	324494 OBS	Kenworth	
R155D	324495 OBS	324495 OBS	Kenworth	
R155	10014745	10014745*	Peterbilt/Kenworth	2078mm - 9.5mm Wall - Torque Rod Bkt#303058; Replaces 10000927
R155	10000928 OBS	10000928 OBS	Peterbilt/Kenworth	
R155	10014749	10014749	Peterbilt/Kenworth	2078mm - 11mm Wall - Torque Rod Bkt#303058; Replaces 10000933
R155	10000934	10000934	Peterbilt	
R155	10000937	10000937	Peterbilt/Kenworth	2154mm - 9.5mm Wall - Torque Rod Bkt#303058
R155/R156	10014745	10014745	Peterbilt/Kenworth	2078mm - 9.5mm Wall - Torque Rod Bkt#303058
R155	10044360	10044360*	Navistar	2078mm - 9.5mm Wall - Torque Rod Bkt#302209 - ABS Blocks. Replaces 10020586
D156	10000903	10000903	Peterbilt/Kenworth	2078mm - 9.5mm Wall - Torque Rod Bkt#302166
D156	10000907	10000907	Peterbilt	
D156	10006267	10006267	Navistar	2078mm - 9.5mm Wall - Torque Rod Bkt#302208
D156	10020588	10020588	Navistar	2078mm - 11mm Wall - Torque Rod Bkt#302208 - ABS Blocks
R156	10044360	10044360	Navistar	2078mm - 9.5mm Wall - Torque Rod Bkt#302209 - ABS Blocks. Replaces 10020600

*Most Popular Item for each OEM

Axle Shafts

Axle Shafts

Various Dana model axle shafts are used in "sets", have unequal shaft lengths and may be "location specific" or "Wheel Equipment specific". When replacing the axle shafts, locate the axle shaft part number (see model Identification section) or select the correct axle shaft from the chart below, before placing your order.

DO NOT MISPLACE AXLE SHAFTS FROM THEIR INTENDED LOCATION.

NOTE STR - Straight, TPR - Tapered

Axle Shafts - Single Reduction Models - D155, D155P, D156, D156P, R155, R156

Standard Axle Shafts PartNo.	Qty	Body Spline	Shaft O.D.	Spline Length	Flange Length	Flange O.D.	Holes	OEM
134595	1	41	1.87	38.98	4"	8.50	8(.635) STR	KW/Pete
134596	1	41	1.87	43.31	4"	8.50	8(.635) STR	KW/Pete
134601	1	41	1.87	39.47	4"	8.50	8(.635) STR	KW/Pete/Nav/Volvo
134602	1	41	1.87	45.05	4"	8.50	8(.635) STR	KW/Pete/Nav/Volvo
134693	1	41	1.87	38.13	4"	8.50	8(.773) STR	KW/Pete
134694	1	41	1.87	42.46	4"	8.50	8(.773) STR	KW/Pete
134696	1	41	1.87	38.98	4"	8.50	8(.948) TPR	KW/Pete/Volvo
134697	1	41	1.87	42.46	4"	8.50	8(.948) TPR	KW/Pete/Volvo
10020687	1	41	1.87	37.98	4"	8.50	8(.948) TPR	Nav/Volvo
10020688	1	41	1.87	43.55	4"	8.50	8(.948) TPR	Nav/Volvo
10020693	1	41	1.87	37.06	4"	8.50	8(.948) TPR	Nav/Volvo
10020694	1	41	1.87	44.47	4"	8.50	8(.948) TPR	Nav/Volvo

Axle Shafts - Single Reduction Models w/ Diff Lock - D155D, D155DP, D156D, D156DP, R155D, R156D

Diff Lock Axle Shafts PartNo.	Qty	Body Spline	Shaft O.D.	Spline Length	Flange Length	Flange O.D.	Holes	OEM
134595	1	41	1.87	38.98	4"	8.50	8(.635) STR	KW/Pete
134600	1	41	1.87		11"	8.50	8(.635) STR	KW/Pete
134693	1	41	1.87	38.13	4"	8.50	8(.773) STR	KW/Pete
134695	1	41	1.87		11"	8.50	8(.773) STR	KW/Pete
134696	1	41	1.87	38.98	4"	8.50	8(.948) TPR	KW/Pete/Volvo
134698	1	41	1.87		11"	8.50	8(.948) TPR	KW/Pete/Volvo

Axle Shaft Hardware

Part Number	Description	Qty Used (per side)	Dim. A	Dim. B	Dim. C	Notes
132993	Tapered Dowel	8	1.00"	.630"	.469"	For 5/8" studs
013886	Gasket	1				8 holes
029804	Washer	8				brake flange washer
060600	Axle Shaft Nut	8				5/8", 18 thread
127794	Stud - Wheel	8				5/8", 18 thread

Gear & Pinion Kits - D155, D155P, D155D, D155DP, D156, D156P, D156D, D156DP, R155, R155D, R156, R156D

Dana has highly developed primary axle gearing which is only used in matched sets. These sets are identified by the mating parts listed below. Within any Dana production drive axle or genuine Spicer® Gear & Pinion service kits, these mated part numbers will appear. Because they are developed as a set with precision machining, never mix gears and pinions from different mated sets within an axle. Shortened gearing life, noise and failure may occur. Always use genuine Spicer® products.

- Ring Gear and Drive Pinion are matched parts and must be replaced in sets.
- Identification of mated parts are shown on the drawing below.
- The Service Gear & Pinion kits below include the latest designs provided in current production.

Models: D155, D155P, D155D, D155DP

Ring Gear Size: 15.75"

Pinion Nut Part-No 131095

Ratios	Spicer Kit	Original Gear (NSS)	Original Pinion (NSS)	Tooth Combo	Ref Set#
2.26	504330	134866	134867	43-19	134865
2.39	504331	134911	134912	43-18	134910
2.53	504332	134914	134915	38-15	134913
2.64	504333	134917	134918	37-14	134916
2.79	504334	134920	134921	39-14	134919

Models: D156, D156P, D156D, D156DP

Ring Gear Size: 15.75"

Pinion Nut Part-No 131095

Ratios	Spicer Kit	Original Gear (NSS)	Original Pinion (NSS)	Tooth Combo	Ref Set#
2.79	504334	134920	134921	39-14	134919
2.93	504335	134923	134924	41-14	134922
3.08	504336	134869	134870	37-12	134868
3.23	504337	134926	134927	42-13	134925
3.36	504338	134929	134930	37-11	134928
3.42	504339	134932	134933	41-12	134931
3.55	504340	134935	134936	39-11	134934
3.70	504341	134938	134939	37-10	134937
3.91	504342	134941	134942	43-11	134940

Gear & Pinion Kits

Models: R155, R155D, R156, R156D

Ring Gear Size: 15.75"

Pinion Nut Part-No 131095

Ratios	Spicer Kit	Original Gear (NSS)	Original Pinion (NSS)	Tooth Combo	Ref Set#
2.26	504343	134872	134873	43-19	134871
2.39	504344	134878	134879	43-18	134877
2.53	504345	134881	134882	38-15	134880
2.64	504346	134884	134885	37-14	134883
2.79	504347	134887	134888	39-14	134886
2.93	504348	134890	134891	41-14	134889
3.08	504349	134875	134876	37-12	134874
3.23	504350	134893	134894	42-13	134892
3.36	504351	134896	134897	37-11	134895
3.42	504352	134899	134900	41-12	134898
3.55	504353	134902	134903	39-11	134901
3.70	504354	134905	134906	37-10	134904
3.91	504355	134908	134909	43-11	134907

D155, D155P - Standard Models (pump and non pump)

41 Involute Spline

Side Gear # 127368

15.5" Hypoid Gearing

These new carrier units will directly replace models D40-155, D40-155P with no modifications.

Ratio	Non-Pump Carrier	Pump Carrier
2.26	D155226EX	D155P226EX
2.39	D155239EX	D155P239EX
2.47	D155247EX	D155P247EX
2.53	D155253EX	D155P253EX
2.64	D155264EX	D155P264EX
2.79	D155279EX	D155P279EX
2.93	D155293EX	D155P293EX
3.08	D155308EX	D155P308EX
3.23	D155323EX	D155P323EX
3.36	D155336EX	D155P336EX
3.42	D155342EX	D155P342EX
3.55	D155355EX	D155P355EX
3.70	D155370EX	D155P370EX
3.91	D155391EX	D155P391EX

D156, D156P - Standard Models (pump and non pump)

41 Involute Spline

Side Gear # 127368

15.5" Hypoid Gearing

These new carrier units will directly replace models D40-156, D40-156P with no modifications.

Ratio	Non-Pump Carrier	Pump Carrier
2.79	D156279EX	D156P279EX
2.93	D156293EX	D156P293EX
3.08	D156308EX	D156P308EX
3.23	D156323EX	D156P323EX
3.36	D156336EX	D156P336EX
3.42	D156342EX	D156P342EX
3.55	D156355EX	D156P355EX
3.70	D156370EX	D156P370EX
3.91	D156391EX	D156P391EX

R155, R156 - Standard Models

41 Involute Spline Side

Gear # 127368 15.5"

Hypoid Gearing

These new carrier units will directly replace all R40-155, R40-156 models with no modifications.

Ratio	New Carrier
2.26	R155226EX
2.39	R155239EX
2.53	R155253EX
2.64	R155264EX
2.79	R155279EX
2.93	R155293EX
3.08	R155308EX
3.23	R155323EX
3.36	R155336EX
3.42	R155342EX
3.55	R155355EX
3.70	R155370EX
3.91	R155391EX
2.47	R155247EX

D155D, D155DP - Diff Lock Models (pump and non-pump)

41 Involute Spline

Side Gear # 127368

15.5" Hypoid Gearing

These new carrier units will directly replace models D40-155D, D40-155DP with no modifications.

Ratio	Non-Pump Carrier	Pump Carrier
2.26	D155D226EX	D155DP226EX
2.39	D155D239EX	D155DP239EX
2.53	D155D253EX	D155DP253EX
2.64	D155D264EX	D155DP264EX
2.79	D155D279EX	D155DP279EX
2.47	D155D247EX	D155DP247EX
2.93	D155D293EX	D155DP293EX
3.08	D155D308EX	D155DP308EX
3.23	D155D323EX	D155DP323EX
3.36	D155D336EX	D155DP336EX
3.42	D155D342EX	D155DP342EX
3.55	D155D355EX	D155DP355EX
3.70	D155D370EX	D155DP370EX
3.91	D155D391EX	D155DP391EX

D156D, D156DP - Diff Lock Models (pump and non-pump)

41 Involute Spline

Side Gear # 127368

15.5" Hypoid

Gearing

These new carrier units will directly replace models D40-156D, D40- 156DP with no modifications.

Ratio	Non-Pump Carrier	Pump Carrier
2.79	D156D279EX	D156DP279EX
2.93	D156D293EX	D156DP293EX
3.08	D156D308EX	D156DP308EX
3.23	D156D323EX	D156DP323EX
3.36	D156D336EX	D156DP336EX
3.42	D156D342EX	D156DP342EX
3.55	D156D355EX	D156DP355EX
3.70	D156D370EX	D156DP370EX
3.91	D156D391EX	D156DP391EX

R155D, R156D - Diff Lock Models

41 Involute Spline

Side Gear # 127368

15.5" Hypoid

Gearing

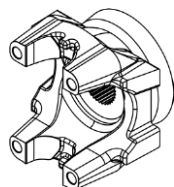
These new carrier units will directly replace all R40-155D, R40-156D models with no modifications.

Ratio	New Carrier
2.26	R155D226EX
2.39	R155D239EX
2.47	R155D247EX
2.53	R155D253EX
2.64	R155D264EX
2.79	R155D279EX
2.93	R155D293EX
3.08	R155D308EX
3.23	R155D323EX
3.36	R155D336EX
3.42	R155D342EX
3.55	R155D355EX
3.70	R155D370EX
3.91	R155D391EX

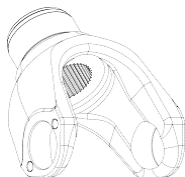
Yokes and Flanges

The following yoke reference information can be used for ordering replacement yoke assemblies for new service carriers. Shown below are SERVICE PART NUMBERS and at the far right side are original production part numbers used in various applications. Always double check part supersession and options before ordering any replacement product.

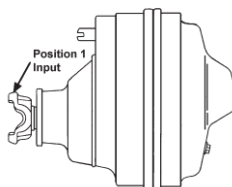
Half Round Style



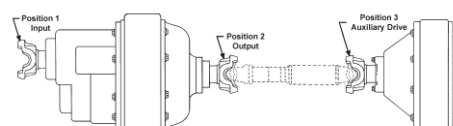
Bearing Plate Style



Dana Single Axle



Dana Tandem Axle



Dana Models: D155, D155D, D156, D156D, R155, R155D, R156, R156D

Forward Axle - Input / 49 - 2.544 Involute Spline

Service Part Number	Series	Joint Angle	Style	Dimensions (in inches):			Reference Production Yoke & Yoke Assy Part-no's
				A	B	C	
350-4-201-1X	SPL350	15	X	6.620	2.560	6.763	350-4-201-1X
350-4-201-1X	SPL350	15	X	6.620	2.560	6.763	350-4-21-1
250-4-1291-1X	SPL250	25	X	6.200	2.362	6.412	134705
250-4-1291-1X	SPL250	25	X	6.200	2.362	6.412	250-4-1031-1

Forward Axle - Output / 41 - 2.143 Involute Spline

Service Part Number	Series	Joint Angle	Style	Dimensions (in inches):			Reference Production Yoke & Yoke Assy Part-no's
				A	B	C	
250-4-10002596-1X	SPL250	25.5	X	6.252	2.362	6.412	10002596
250-4-10002596-1X	SPL250	25.5	X	6.252	2.362	6.412	5009699
170-4-10002595-1X	SPL170	45	X	7.190	2.166	6.456	10002595
170-4-10002595-1X	SPL170	45	X	7.190	2.166	6.456	170-4-1901-1

Rear Axle - Input / 49 - 2.544 Involute Spline

Service Part Number	Series	Joint Angle	Style	Dimensions (in inches):			Reference Production Yoke & Yoke Assy Part-no's
				A	B	C	
170-4-2021-1X	SPL170	25	X	5.530	2.166	6.456	134581
170-4-2021-1X	SPL170	25	X	5.530	2.166	6.456	170-4-1891-1
250-4-1301-1X	SPL250	25	X	5.830	2.362	6.412	134579
250-4-1301-1X	SPL250	25	X	5.830	2.362	6.412	250-4-1021-1

Pinion Seal and Nut Reference Chart

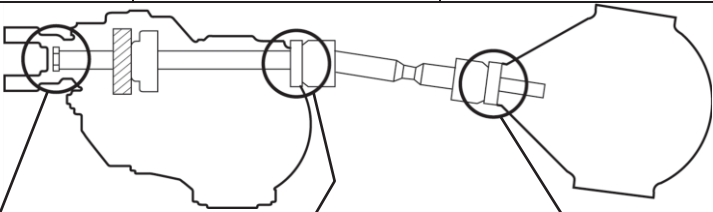
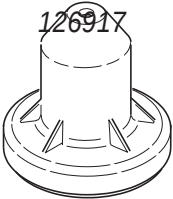
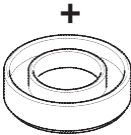
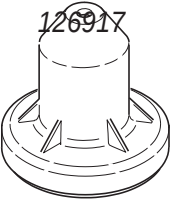
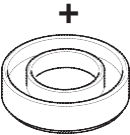
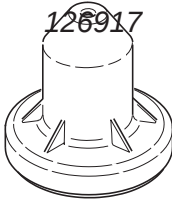
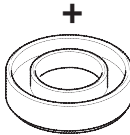
Shown below is a quick reference chart showing the pinion seals, pinion nuts and a Seal & Nut kit that contain both items.

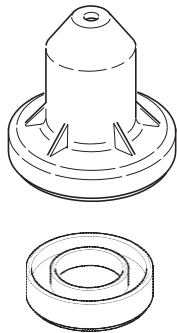
Pinion Seal & Nut Chart				
	Location	D155, D155D	D156, D156D	R155, R155D R156, R156D
Input Seal	Input	134583	2019185	
Input Nut		131095	128049	
Kit-Seal & Nut		504320	504321	
Output Seal	Output	2023063	2022740	
Output Nut		128049	127588	
Kit-OP Seal & Nut		504322	504323	
R-Pinion Seal	R-Pinion			134583
R-Pinion Nut				131095
Kit-Seal & Nut				504320

Oil Seal Installation Tools

These kits contain installation tools used for installing driveline oil seals. Using these tools ensures proper installation of the seal. Failure to use these tools may result in an improperly installed or damaged seal.

Oil Seal Driver Installation Tool Kits: 504300 and 504325

	D-INPUT	D-INPUT	D-INPUT
LOCATION			
TOOL	 + 	 + 	 + 
	D155 - 10021492 D156 - 10021493 INSERTS	D155 - 10021495 D156 - 10021494 INSERTS	R155 - 10021492 R156 - 10021492 INSERTS
<u>Note: Insert graphics are for illustration purposes only, actual inserts may vary</u>			



OIL SEAL DRIVER INSTALLATION KITS			
504300		504325	
Models: D155 / R155		Models: D156 / R156	
Part No.	Description	Part No.	Description
126917	DRIVER	126917	DRIVER
10021492	INSERT	10021492	INSERT
10021495	INSERT	10021493	INSERT
		10021494	INSERT

Service Kits - Quick Reference List

Service Kits - Quick Reference List

Air Lockout Kit with Shift Fork-Complete	504311
Air Lockout Repair Kit	512892
Air Lockout Shift Fork & Spring Kit (fork# 134668)	504314
Axle Housing Drain Bolt Kit - D155, D156	504324
Axle Housing Drain Bolt Kit - R155, R156	504326
Axle Housing Hardware Kit - D155, D156	504301
Axle Housing Hardware Kit - R155, R156	504302
Bearing & Seal Kit - D155, D155P	504358
Bearing & Seal Kit - D155D, D155DP	504359
Bearing & Seal Kit - D156, D156P	504360
Bearing & Seal Kit - D156D, D156DP	504361
Bearing & Seal Kit - R155, R156	504299
Produced BEFORE 2.15.16	
Bearing & Seal Kit - R155D, R156D	N/A
Produced BEFORE 2.15.16	
Bearing & Seal Kit - R155, R156	504327
Produced AFTER 2.15.16	
Bearing & Seal Kit - R155D, R156D	504328
Produced AFTER 2.15.16	
Diff lock Parts Kit (all diff lock mdls)	504313
Diff lock Shift Fork & Pin Kit (all diff lock mdls) (fork# 134585)	504316
Diff Case - Plain Half - D155D, D156D	134571
Diff Case - Plain Half - R155D, R156D	134572 OBS
Diff Case - Plain Half - R155, R156	10016953
Replaces 134577	
Diff Case - Plain Half - D155, D156	Replaces 134578 10016954
Helical Pinion Gear - D155, D155D, D156, D156D	10019031
Replaces 134758	
Helical Gear & Bushing Assy - D155, D155D	134684 OBS
Helical Gear & Bushing Assy - D156, D156D	134692 OBS
Input Cover Kit - D155, D155D (cover# 134686)	504317
Input Cover Kit - D156, D156D (cover# 134672)	504318
Input Cover Shim Kit - D155, D155D, D156, D156D	504319
Input Shaft Kit - D155 no pump (shaft# 134666)	504307
Input Shaft Kit - D155 pump models (shaft# 134678)	504308
Input Shaft Kit - D156 no pump (shaft# 134682)	504309
Input Shaft Kit - D156 pump models (shaft# 134690)	504310
Inter-Axle Diff Assy - D155, D155D	10085729
Replaces 134192	
Inter-Axle Diff Assy - D156, D156D	139965 OBS

Lube Pump w/ Output Side Gear Kit - D155P, D155DP	504364-1
Lube Pump w/ Output Side Gear Kit - D156P, D156DP	504365 OBS
Lube Manifold Parts Kit - All Pump Mdls	504315
Oil Seal Driver Tool Kit - ALL D/R155	504300
Oil Seal Driver Tool Kit - ALL D/R156	504325
Output Shaft Kit D155, D155D (shaft# 134688)	504303
Output Shaft Kit D156, D156D (shaft# 134680)	504304
Output Shaft Bearing Kit - D155, D155D	504060
Output Shaft Bearing Kit - D156, D156D	504306
Output Shaft Nut - D155, D155D	128049
Output Shaft Nut - D156, D156D	131095
Output Shaft Seal - D155, D155D	2023063
Output Shaft Seal - D156, D156D	2022740
Pinion Brg Spacer Kit - D155, D155D, D156, D156D	504041
Pinion Brg Spacer Kit - R155, R155D, R156, R156D	504329
Produced AFTER 2.15.16	
Pinion Brg Shim Kit - D155, D155D, D156, D156D	504362
Pinion Brg Shim Kit - R155, R155D, R156, R156D	504363
Produced AFTER 2.15.16	
Ring Gear Bolt Kit (Qty 12 of bolt# 10000182)	504305
Seal & Nut Kit - Input Shaft - D155, D155D	504320
Seal & Nut Kit - Input Shaft - D156, D156D	504321
Seal & Nut Kit - Output Shaft - D155, D155D mdls	504322
Seal & Nut Kit - Output Shaft - D156, D156D mdls	504323
Seal & Nut Kit - R-Pinion - R155, R155D, R156, R156D	504320
Shim Kit - Pinion Bearing - D155, D156	504362
Shim Kit - Pinion Bearing - R155, R156	504363
Produced AFTER 2.15.16	
Spacer Kit - Pinion Bearing - D155, D156	504041
Spacer Kit - Pinion Bearing - R155, R156	504329
Produced AFTER 2.15.16	
Spindle Nut Kit (does one side of vehicle)	504158
Wheel Diff Side Gear Kit - 41Inv	504312

Spicer Service Kit Bill of Materials

Service Kits

504041

Kit-Pinion Bearing Spacer D155/D156

Dana P/N	Description	Qty
131378	SPACER-PIN BRG 21.820	1
132844	SPACER-PIN BRG 21.955	1
131391	SPACER-PIN BRG 22.105	1
131393	SPACER-PIN BRG 22.135	1
131399	SPACER-PIN BRG 22.225	1
131400	SPACER-PIN BRG 22.240	1
131408	SPACER-PIN BRG 22.360	1
131409	SPACER-PIN BRG 22.375	1
131413	SPACER-PIN BRG 22.435	1
131421	SPACER-PIN BRG 22.645	1

504060

Kit-Output Shaft Brgs - ALL D155 MODELS

Dana P/N	Description	Qty
134322	SNAP RING	1
139977	BEARING CONE	2
139978	BEARING CUP	2

504158

Kit-Spindle Nut (4 piece design)

Dana P/N	Description	Qty
119881	SPINDLE NUT	1
119882	SPINDLE NUT	1
119883	LOCK NUT WASHER-DOWEL TYPE	1
129132	LOCK NUT WASHER w/TAB	1

504300

Kit-Oil Seal Driver D/R155

Dana P/N	Description	Qty
126917	DRIVER	1
10021492	ADAPTER INSERT	1
10021495	ADAPTER INSERT	1

504301

Kit-Axle Housing Hardware D155/156

Dana P/N	Description	Qty
127567	NUT	2
10008812	STUD	2
129491	PLUG-MAGNETIC	1
130877	WASHER-PLAIN	14
135017	CAPSCREW-HEX 55mm	12

504302

Kit-Axle Housing Hardware R155/156

Dana P/N	Description	Qty
127567	NUT	2
10008812	STUD	2
129491	PLUG-MAGNETIC	1
130877	WASHER-PLAIN	14
135016	CAPSCREW-HEX 75mm	4
135017	CAPSCREW-HEX 55mm	8

504303

Kit-Output Shaft - ALL D155 MODELS

Dana P/N	Description	Qty
128049	NUT-OUTPUT SHAFT	1
134680	OUTPUT SHAFT-D155	1

504304

Kit-Output Shaft - ALL D156 MODELS

Dana P/N	Description	Qty
134688	OUTPUT SHAFT-D156	1
127588	NUT-OUTPUT SHAFT	1

504305

Kit-Ring Gear Bolts

Dana P/N	Description	Qty
10000182	RING GEAR BOLT	12

504306

Kit-Output Shaft Brgs - All D156 MODELS

Dana P/N	Description	Qty
129594	SNAP RING	1
134991	BEARING CONE	1
134992	BEARING CUP	2

504307

Kit-Input Shaft D155, D155D

Dana P/N	Description	Qty
131095	NUT-INPUT SHAFT	1
134666	INPUT SHAFT D155 - NSS	1

504308

Kit-Input Shaft D155P/D155DP - Pump Model

Dana P/N	Description	Qty
131095	NUT-INPUT SHAFT	1
134678	INPUT SHAFT D155P-PUMP	1

504309

Kit-Input Shaft D156/D156D

Dana P/N	Description	Qty
128049	NUT-INPUT SHAFT	1
134682	INPUT SHAFT D156 - NSS	1

Spicer Service Kit Bill of Materials

Service Kits Continued

504310

Kit-Input Shaft D156P/D156DP - Pump Model

Dana P/N	Description	Qty
128049	NUT-INPUT SHAFT	1
134690	INPUT SHAFT D156P-PUMP	1

504311

Kit-Air L/O-Complete w/Fork

Dana P/N	Description	Qty
129859	COMPRESSION SPRING	1
131096	CAP-PISTON COVER	1
131232	PISTON	1
131665	O-RING - COVER	1
134668	SHIFT FORK ASSY- NSS	1
210180	O-RING - PISTON	1

504312

Kit-Wheel Diff Side Gear 41 Inv

Dana P/N	Description	Qty
127368	SIDE GEAR - 41 INV	2
133784	SIDE PINION	4
127386	THRUST WASHER-SIDE PINION	4
129305	THRUST WASHER-SIDE GEAR	2
134151	SHAFT-DIFFERENTIAL	1
134152	SHAFT-DIFFERENTIAL	2

504313

Kit-Diff Lock Shift Parts

Dana P/N	Description	Qty
131096	CAP-PISTON COVER	1
131102	COMPRESSION SPRING	1
131665	O-RING - COVER	1
134587	PUSH ROD	1
210180	O-RING - PISTON	1

504314

Kit-Shift Fork & Spring

Dana P/N	Description	Qty
129859	COMPRESSION SPRING	1
134668	SHIFT FORK ASSY- NSS	1

504315

Kit-Manifold Parts - Pump Models

Dana P/N	Description	Qty
129338	CLAMP	4
133964	FILTER SCREEN ASSY	1
134675	SEAL MANIFOLD ASSY-NSS	1
10009605	INLET TUBE	1
10011130	LUBE HOSE-SHORT	1
10011131	LUBE HOSE-LONG	1

504316

Kit-Shift Fork & Pin

Dana P/N	Description	Qty
134585	SHIFT FORK - NSS	1
210020	PIN	1

504317

Kit-Input Cover D156

Dana P/N	Description	Qty
134686	INPUT COVER-D156	1
130877	WASHER	9
134709	SHIM .020" INPUT CVR	2
134710	SHIM .010" INPUT CVR	2
134711	SHIM .005" INPUT CVR	2
10000875	CAPSCREW	9

504318

Kit-Input Cover D155

Dana P/N	Description	Qty
134672	INPUT COVER-D155	1
130877	WASHER	9
134709	SHIM .020" INPUT CVR	2
134710	SHIM .010" INPUT CVR	2
134711	SHIM .005" INPUT CVR	2
10000875	CAPSCREW	9

504319

Kit-Input Cover Shims D155/D156

Dana P/N	Description	Qty
134708	SHIM .030" INPUT CVR	2
134709	SHIM .020" INPUT CVR	2
134710	SHIM .010" INPUT CVR	2
134711	SHIM .005" INPUT CVR	2
134712	SHIM .003" INPUT CVR	2

Spicer Service Kit Bill of Materials

504320

Kit-Seal & Nut - D155, R155, R156

Dana P/N	Description	Qty
131095	SEAL-PINION	1
134583	NUT-PINION	1

504321

Kit-Input Seal & Nut D156

Dana P/N	Description	Qty
128049	NUT-INPUT	1
2019185	SEAL-INPUT	1

504322

Kit-Output Seal & Nut D155

Dana P/N	Description	Qty
128049	NUT-OUTPUT	1
2023063	SEAL-OUTPUT D155	1

504323

Kit-Output Seal & Nut D156

Dana P/N	Description	Qty
127588	NUT-OUTPUT	1
2022740	SEAL-OUTPUT D156	1

504324

Kit-Drain Bolt D155/156

Dana P/N	Description	Qty
135017	CAPSCREW-55mm	2
130877	WASHER	2
129293	LOCTITE 271	1

504325

Kit-Oil Seal Driver D/R156

Dana P/N	Description	Qty
126917	DRIVER	1
10021492	ADAPTER INSERT	1
10021493	ADAPTER INSERT	1
10021494	ADAPTER INSERT	1

504326

Kit-Drain Bolt R155/R156

Dana P/N	Description	Qty
135016	CAPSCREW-75mm	2
130877	WASHER	2
129293	LOCTITE 271	1

504329

Kit-Pinion Brg Spacer R155/R156

Produced on or AFTER 2.15.16

Dana P/N	Description	Qty
10032086	SPACER-PIN BRG 17.959	1
10032092	SPACER-PIN BRG 18.049	1
10032096	SPACER-PIN BRG 18.109	1
10032099	SPACER-PIN BRG 18.154	1
10032101	SPACER-PIN BRG 18.184	1
10032104	SPACER-PIN BRG 18.229	1
10032105	SPACER-PIN BRG 18.244	1
10032112	SPACER-PIN BRG 18.399	1

504362

Kit-Pinion Brg Shim D155/D156

Dana P/N	Description	Qty
135056	SHIM .065"	1
135058	SHIM .067"	1
135060	SHIM .069"	1
135066	SHIM .075"	1
135067	SHIM .076"	1

504363

Kit-Pinion Brg Shim R155/R156 Made after 2.15.16

Dana P/N	Description	Qty
10023040	SHIM .066"	1
10023041	SHIM .067"	1
10023042	SHIM .068"	1
10023043	SHIM .069"	1

504364- n/a now; replaced by 504364-1

Kit-Lube Pump w/Output Side Gear D155P

Dana P/N	Description	Qty
131368	LUBE PUMP	1
134770	OUTPUT SIDE GEAR-NSS	1
131541	PIN	1

504365-n/a now

Kit-Lube Pump w/Output Side Gear D156P

Dana P/N	Description	Qty
131368	LUBE PUMP	1
10026796	OUTPUT SIDE GEAR	1
131541	PIN	1

Service Kits Continued

507162

Kit-U-Tube Breather

Dana P/N	Description	Qty
129340	HOSE & CLAMP ASSY- NSS	1
302706	BREATHER ASSY - NSS	1

512892

Kit-Air Lockout Repair

Dana P/N	Description	Qty
129859	COMPRESSION SPRING	1
131096	CAP-PISTON COVER	1
131232	PISTON	1
131665	O-RING - COVER	1
210180	O-RING - PISTON	1

132061 is replaced by 10026796.



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