



Dana[®] Spicer[®]

Tandem Axles

Illustrated Parts List

AXIP-0087 January 1994

Dual Range & Planetary
Double Reduction

34 • 38 • 340 • 341 • 380

381 • 400 • 402 • 451

34,000 - 40,000 lbs

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Dana Axle Parts Book

Dana Corporation, Axle & Brake Division presents this Parts Book as an aid in the identification and procurement of replacement parts for Eaton Axles. The information included covers the differential carrier assembly, axle housing, axle shafts, shift system and special-designed parts kits and assemblies.

Exploded views are used to illustrate the parts and show their relationship to other parts on the carrier. Each part is identified by an item number which in turn, leads to a list containing part name and part number.

For convenience, part numbers have been included for all pieces of the carrier assembly. However some of these parts, such as differential 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.

Genuine Dana Parts.

When you buy genuine Eaton replacement parts, you receive the same high quality and exacting tolerances you find in the original axle components.

Only genuine Eaton parts have the latest Eaton engineering improvements and assure equal or better performance than the original parts.

And Eaton backs you up with a responsive and capable service organization located strategically to provide you with emergency parts and service when you need them.

Insist on Eaton quality. Use genuine Eaton replacement parts.

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: ring gear sets.

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.

Dana Parts Kits

Eaton Parts Kits give you an economical, convenient way to stock Eaton replacement parts. They contain all the parts you need to do a complete professional job of overhauling or repairing your Eaton axle. And you have only one part number in one easily stored package to order, stock, identify, and satisfy your customers' needs.

Symbols:

This symbol is used throughout this book to identify parts included in major kits.

- ★ Carrier Basic Overhaul Kit
- Bearing Kit

Ordering Eaton Axle Parts

Place all your parts orders through your truck dealer or manufacturer (OEM). Do not order parts directly from Eaton Corporation, Axle & Brake Division.

How to use this Parts Book

1. Refer to table of contents on opposite page for axle type, model or series, and page number.
2. Turn to the page that applies to the axle in question.
3. Locate the desired part in the exploded illustration and note Item No. This Item No. will lead you to the part name and number.
4. Refer to the related Parts Listing and locate the same Item No. and the name. If more than one part number is listed, refer to the axle model listings at top of list and select the part number that applies to the axle being serviced.

Axel Model Coverage:

This publication covers dual range and planetary double reduction tandems (34,000-45,000 lbs.):

DUAL RANGE		PLANETARY DOUBLE REDUCTION	
Forward Tandem Axle	Rear Tandem Axle	Forward Tandem Axle	Rear Tandem Axle
34DT 38DT	34RT 38RT	340P 38DP	34RP 38RP
D1340 DT380(P) DT400-P	RT340 RT380 RT400	DP340 DP380(P) DP400-P	RP340 RP380 RP400
DT341 DT381(P) DT401-(P)	RT341 RT381 RT401	DP341 DP381(P) DP401-P	RP341 RP381 RP401
DT341 DT402(P) DT451-P	RT341 RT402 RT451	DP341 DP402-P DP451-P	RP341 RP402 RP451

Please note the column heads in each parts list. The current models appear first, followed by earlier models. The information in this publication has been designed to help you upgrade older models with improved parts.

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Forward Tandem Axles Differential Carrier
Dual Range
Planetary Double Reduction

Item No.	Part Name	Qty Per Axle	DT/DP341, DT/DP381 (P)			Remarks
			DT/DP402 (P)	DT/DP340 DT/DP380 (P)	34DT/DP 38DT/DP	
			DT/DP401-P	DT/DP400-P		
			DT/DP451-P			
	BASIC OVERHAUL KIT (Contents identified with ★)	1	115124 ★	110584 ★	110574 ★	
	BEARING KIT (Contents identified with •)	1	115125 •	99045 •	99054 •	
1	Diff. Carrier & Bearing Caps	1	115825	120926	120925	
	Carrier Casting No. (NSS)		110816	110816	110816	
	Includes Items 2-5,7,12-15, 17-18,20-22 & RTV					
2	Bearing Cap Screw	4	32732	32732	32732	
3	Flat Washer	4	32912	32912	32912	
4	Lockwire	4	90538	90538	90538	
5	Dowel Bushing	2	32730	32730	32730	
6	Bearing Adjuster Lock (RH)	1	37745	37745	37745	
	Adjuster Lock Dowel Bushing (RH)	2	37746	37746	37746	
8	Cap Screw (RH)	2	37747	37747	37747	
9	Lockwire (RH)	2	12563	12563	12563	
10	Bearing Adjuster Lock (RH)	1	13377	13377	13377	
11	Cotter Pin (LH)	1	90873	90873	90873	
12	Expansion Plug (Upper)	1	30703 ★	30703 ★	30703 ★	
	Expansion Plug (Lower)	1	9797 ★	9797 ★	9797 ★	
13	Shift Fork Shaft & "O" Ring Assy	1	113801	113801	113801	
14	Filler Plug	1	90325	90325	90325	
15	Carrier Cover Dowel Pin	2	7641	7641	7641	
16	Shift Fork & Roller Assy	1	32613	32613	32613	
17	Shift Fork Seal & Spring Assy	1	119855 ★	119855 ★	119855 ★	DT ONLY
18	Shift Unit Mounting Stud	2	119863	119863	119863	DT ONLY
19	Shift Unit Assy	1	73503	73503	73503	DT ONLY
20	Lockwasher	2	119857	119857	119857	DT ONLY
21	Stud Nut	2	63028	63028	63028	DT ONLY
22	Shift Unit Opening Cover	1	45521	45521	45521	DP ONLY
23	Cap Screw	2	20807	20807	20807	DP ONLY
24	Lockwasher	2	90415	90415	90415	DP ONLY
25	Sliding Clutch Gear	1	113596	113596	113596	DT ONLY
26	Sun Gear	1	113598	113598	113598	DP ONLY
27	Sun Gear Retainer	1	43178	43178	43178	DP ONLY
28	Diff. Bearing Adjuster (RH)	1	56932	56932	56932	
	Diff. Bearing Adjuster (LH)	1	110243	27842	27842	
29	Diff. Bearing Cup (RH)	1	27816 ★•	27816 ★•	27816 ★•	
	Diff. Bearing Cup (LH)	1	9803 ★•	9803 ★•	9803 ★•	
30	Diff. Bearing Cone (RH)	1	27817 ★•	27817 ★•	27817 ★•	
	Diff. Bearing Cone (LH)	1	27813 ★•	27813 ★•	27813 ★•	
31	RING GEAR & DRIVE PINION SET Includes Item 54-55			Matched Parts; see separate listing on page 18-19		
32	RING GEAR BOLT & NUT KIT	1	87955	87955	87955	
	Bolt	8	44358	44358	44358	
	Nut	8	60599	60599	60599	
33	Gear Support Case (RH)	1	27838	27838	27838	
	Includes 27817 Cone					
	Gear Support Case (LH)	1	110148	116568	116568	

Item No.	Part Name	Qty Per Axle	DT/DP341, DT/DP381 (P)			Remarks
			DT/DP402 (P)	DT/DP340 DT/DP380 (P)	DT/DP400-P	
			DT/DP401-P		34DT/DP 38DT/DP	
			DT/DP451-P			
34	Gear Support Thrust Washer (RH)	1	43270 ★	43270 ★	43270 ★	
	Gear Support Thrust Washer (RH)	1	27827 ★	27827 ★	27827 ★	
35	High-Speed Clutch Plate	1	56931	56931	56931	
36	Idler Pinion Pin	4	27861	27861	27861	
37	Idler Pinion	4	27835	27835	27835	
	WHEEL DIFF. CASE KIT	1	101878	101878	101878	
	Includes Items 38-39					
38	Diff. Case w/clutch plate pin (casting 96278)	1	98182	98182	98182	
	Diff. Case (RH) (NSS)	1	96279	96279	96279	
39	Diff. Case Cap Screw	8	96283	96283	96283	
	WHEEL DIFF. SIDE GEAR & PINION KIT	1				
	Includes Items 40-44					
	Models: 34, 340, 341		114469	98850	98850	
	38, 380, 381, 402		114470	85358	85358	
	400, 401		98853	98853	-	
	WHEEL DIFF. KIT LESS SIDE GEARS	1	118748	118748	118748	
	Includes Items 41-44					
40	Diff. Side Gear	2				
	Models: 34, 340, 341		110525	37072	37072	
	38, 380, 381, 402		110527	37069	37069	
	400, 401		85486	85486	-	
41	Side Gear Thrust Washer	2	27827 ★	27827 ★	27827 ★	
42	Side Pinion	4	104139	104139	104139	
	104139 replaces 37071					
43	Side Pinion Thrust Washer	4	27810 ★	27810 ★	27810 ★	
44	Spider	1	38289	38289	38289	
45	Pinion Pilot Bearing	1	15828 ★★	15828 ★★	15828 ★★	
46	Pinion Bearing Cone (Inner)	1	85439 ★★	85439 ★★	45460 ★★	
	Pinion Bearing Cone (Outer)	1	110846 ★★	45460 ★★	45460 ★★	
47	Pinion Bearing Spacer	AR				
	See listing on page 22					
48	Pinion Bearing Cage & Cup Assy	1				
	Includes Item 49					
	Ratio 3.55-3.70	1	110731	107322		
	Other Ratios	1	110733	107324		
	34/38DTB,C, 34/38DPB,C	1	-	-	107322	
	34/38DTD,E, 34/38DPD,E	1	-	-	107324	
49	Pinion Bearing Cup (Inner)	1	14217 ★★	14217 ★★	14217 ★★	
	Pinion Bearing Cup (Outer)	1	35502 ★★	14217 ★★	14217 ★★	
50	Pinion Bearing Cage Shim	AR				
	.003"		45461 ★	45461 ★	45461 ★	
	.005"		62829 ★	62829 ★	62829 ★	
	.010"		45462 ★	45462 ★	45462 ★	
	.020"		62830 ★	62830 ★	62830 ★	
	.030"		45463 ★	45463 ★	45463 ★	
51	Bearing Cage Cap Screw	6	62158	62158	62158	
52	Lockwasher	6	37207	37207	37207	
53	Pinion Helical Gear	1	110845	74991		
	34/38DSB,C		-	-	46977	
	34/38DSD,E		-	-	74991	
54	Slotted Nut	1	118806			
55	Roll Pin	1	118807			
	Pinion Nut	1	NOTE 2	95206	95206	

Item No.	Part Name	Qty Per Axle	DT/DP341, DT/DP381 (P)	DT/DP340	34DT/DP	Remarks
			DT/DP402 (P) DT/DP401-P DT/DP451-P	DT/DP380 (P) DT/DP400-P	38DT/DP	
56	Output Shaft Nut	1	95205	95205	95205	
57	Flat Washer	1	4327 ★	4327 ★	4327 ★	
58	Output Yoke	1				
	See chart on page 18					
59	Axle Housing Cover Assy	1				
	Includes Items 60-63					
	(Cover 77751 NSS)		107320	-	-	
	3/4" (Cover 75335 NSS)		-	75336	75336	
	1" (Cover 77749 NSS)		-	-	77750	
	Rear Bearing Retaining Washer (not illustrated)	1	-	46583 ★	46583 ★	
60	Output Shaft Oil Seal	1	119431 ★•	119431 ★•	119431 ★•	
61	Bearing Snap Ring	1	45516 ★	45516 ★	45516 ★	
62	Output Shaft Bearing & Sleeve Assy	1	46584 ★	46584 ★	46584 ★	
	Matched Parts					
63	Magnetic Filler Plug					
	3/4"	1	75130	75130	75130	
	1"	1	77944	77944	77944	
	Hole Plug	1	90898	90898	90898	
64	OUTPUT SHAFT NUT & BUSHING KIT	1	115123	98603	98603	
	Includes Items 56, 65-66, 71-72			NOTE 3	NOTE3	
	(Shaft NSS)34 splines, 1.750" dia.	1	110818			
	(Shaft NSS)10 splines, 1.750" dia.	1		85441	85441	
65	Output Shaft Bushing	1	48922 ★	48922 ★	48922 ★	
66	Output Shaft "O" Ring	2	46526 ★	46526 ★	46526 ★	
67	Side Gear Snap Ring	2	85994 ★	85994 ★	85994 ★	
					NOTE4	
68	Output Shaft Bearing Cup (Inner)	1	110811 ★•	51232 ★	51232 ★	
69	Output Shaft Bearing Cone (Inner)	1	110812 ★•	51233 ★	51233 ★	
70	Output Shaft Side Gear	1	110810	85436	85909	
71	Output Shaft Spring	1	51238			
72	Output Shaft Spring Thrust Bearing	1	51228			
73	Inter-axle Diff. Assy	1	104509	104509	95213	
	Includes Items 74-80					
74	DIFF. CASE KIT	1	94810	94810	91850	
	Includes Item 75-76					
	Case Halt (NSS)		102621	102621	102621	
75	Bolt	8	85438	85438	85438	
76	Nut	8	57637	57637	57637	
	DIFF. SIDE PINION & SPIDER KIT	1	96381	96381	96380	
	Includes Items 77-80					
77	Side Pinion	4	95214	95214	95210	
78	Side Pinion Bushing	4	95215 ★	95215 ★	95211 ★	
79	Side Pinion Thrust Washer	4	85437 ★	85437 ★	25968 ★	
80	Spider	1	95216	95216	95212	
81	Helical Side Gear Snap Ring	1	85997 ★	85997 ★	85997 ★	
82	Helical Side Gear & Bushing Assy	1	110844	85432	45476	
	Includes Item 83			NOTE 5		
	Side Gear (NSS)		110843	85431	45474	
83	Helical Side Gear Bushing	2	85991 ★	85991 ★	48921 ★	
84	Helical Side Gear Thrust Washer	1	85429 ★	85429 ★	45477 ★	

Item No.	Part Name	Qty Per Axle	DT/DP341, DT/DP381 (P)	DT/DP340	34DT/DP	Remarks
			DT/DP402 (P) DT/DP401-P DT/DP451-P	DT/DP380 (P) DT/DP400-P	38DT/DP	
85	Helical Side Gear "D" Washer	1	45478 ★	45478 ★	45478 ★	
86	Lockout Sliding Clutch	1	45480	45480	45480	
87	INPUT SHAFT WASHER & NUT KIT Includes Items 85 & 97*					NOTE 6
	Models w/o Lube Pump	1	115122	103289	98693	
	(Shaft NSS)44 splines, 2.250" dia.	1	110823			
	(Shaft NSS)16 splines, 2.125" dia.	1		103283		
	(Shaft NSS)10 splines, 1.969" dia.	1			88285	
	Models w/Lube Pump	1	115126	106709	-	
	(Shaft NSS)44 spines, 2.250" dia.	1	110805			
	(Shaft NSS)16 spines, 2.125" dia.	1		102608	-	
88	Input Shaft Bearing Cone	1	91136 ★•	85425 ★•	83469 ★•	
89	Input Shaft Bearing Cup	1	98388 ★•	85424 ★•	83462 ★•	
90	Input Bearing Cover Shim	AR				
	.003"		45498 ★	45498 ★	45498 ★	
	.005"		70709 ★	70709 ★	70709 ★	
	.010"		45499 ★	45499 ★	45499 ★	
	.020"		85406 ★	85406 ★	85406 ★	
91	Input Bearing Cover, Cup & Oil Assy Includes Items 89 & 94	1				
	Models w/lube Pump		110808	102629	-	
	(Cover NSS)		110807	102614		
	Models w/o lube pump		110826	85423	86813	
	(Cover NSS)		119824	85421	86811	
92	Bearing Cover Cap Screw	5	113324	113324	113324	
93	Lockwasher	5	90414	-	-	
	OIL SEAL & SHIM KIT Includes Items 17,50,60,88, 92 & RTV	1	114395			
	Input Shaft Spacer Washer (not illustrated)	1	-	85427 ★	-	
94	Input Shaft Oil Seal	1	119429 ★•	119429 ★•	119431 ★•	
95	Input Yoke See chart on page 18					
96	Flat Washer	1	85404 ★	85404 ★	56864 ★	
97	Input Shaft Nut Washer	1	95207	95207	95206	
98	Diff. Carrier Cover Assy Includes Items 101-102					
	Models w/o Lube Pump	1	45481	45481	45481	
	Models w/Lube Pump	1	102627	102627	-	
	Cover (NSS)		102606	102606	-	
99	Carrier Cover Cap Screw					
	Models w/o Lube Pump (long)	4	12063	12063	12063	
	(short)	5	90069	90069	90069	
	Models w/Lube Pump (long)	4	12063	12063	-	
	(short)	4	90069	90069	-	
	(12pt)	1	81855	102605	-	
100	Lockwasher	9	90417	90417	90417	
101	Pipe Plug	1	90325	90325	-	
102	Expansion Plug	1	9797	9797	-	
103	Magnetic Filter Screen	1	102611	102611	-	
	Models w/Lube Pump					
104	LUBE PUMP REPLACEMENT KIT Models w/Lube Pump Includes Items 105-110	1	106368	106368	-	

Item No.	Part Name	Qty Per Axle	DT/DP341, DT/DP381 (P) DT/DP402 (P) DT/DP401-P DT/DP451-P	DT/DP340 DT/DP380 (P) DT/DP400-P	34DT/DP 38DT/DP	Remarks
105	Pump Drive Gear	1	111448	102609	-	
106	Drive Gear Locknut	1	111451	63028	-	
	Drive Gear Woodruff Key (not illustrated)	1	-	81471	-	
107	Cover "O" Ring	1	102620 ★	102620 ★	-	
108	Cover Dowel Pin	2	102617	102617	-	
109	Cover Cap Screw	4	102618	102618	-	
110	Lockwasher	4	90419	90419	-	
111	Air-Operated Lockout Assy Models w/Lube Pump	1				
	Models w/o Lube Pump	1				SEE PAGE 14-15
112	Shift Fork & Push Rod Assy Models w/Lube Pump	1	102613	102613	-	
	Models w/o Lube Pump	1	45859	45859	45859	
	Gasket Compound	AR	107276 ★•	107276 ★•	107276 ★•	

NNS—Not Sold Separately

NOTE 1: 120926 is interchangeable with 115825 by also using 110810 Output Shaft Side Gear. This conversion can be applied to 34/38D if power divider is also converted to D340/380/400 or D341/381/401.

NOTE 2: Axles built prior to May 1,1982 use 95207 self-locking nut. Later models use 118806 slotted nut plus 118807 roll pin.

NOTE 3: 98603 is interchangeable with 115123 by also using a new Input Yoke.

NOTE 4: For earlier style Output Shafts 46647 and 98603, use 44178 Snap Ring.

NOTE 5: Helical Gear Conversion Kit 113561. See details on page 20.

NOTE 6: Early model axles use a ball bearing on input shaft. To convert ball bearing to taper bearing, use Kit 86967 which contains items 88, 90 & 91

Rear Tandem Axles Differential Carrier Dual Range Planetary Double Reduction

Item No.	Part Name	Qty Per Axle	DT/DP341, DT/DP381 (P) DT/DP402 (P)		DT/DP340 DT/DP380 (P) DT/DP400-P	34DT/DP 38DT/DP	Remarks
			DT/DP401-P	DT/DP451-P			
	BASIC OVERHAUL KIT (Contents identified with ★)	1	110585 ★		110585 ★	110585 ★	
1	BEARING KIT (Contents identified with ●)	1	99051 ●		99051 ●	99051 ●	
	Diff. Carrier & Bearing Caps	1	67759		67759	67759	
	Carrier Casting No.(NSS) Includes Items 1-5,9,12-13,15-16, 18-19 & RTV	1	119856		119856	119856	
2	Bearing Cap Screw	4	32732		32732	32732	
3	Flat Washer	4	32912		32912	32912	
4	Lockwire	4	90538		90538	90538	
5	Dowel Bushing	2	32730		32730	32730	
6	Bearing Cap Adjuster Lock (RH)	1	13377		13377	13377	
7	Cotter Pin (RH)	1	90873		90873	90873	
8	Bearing Cap Adjuster Lock (LH)	1	37745		37745	37745	
9	Dowel Bushing (LH)	2	37746		37746	37746	
10	Cap Screw (LH)	2	37747		37747	37747	
11	Lockwire (LH)	2	12563		12563	12563	
12	Expansion Plug (Upper)	1	30703 ★		30703 ★	30703 ★	
	Expansion Plug (Lower)	1	9797 ★		9797 ★	9797 ★	
13	Shift Fork Shaft & "O" Ring Assy	1	113801		113801	113800	RT ONLY
14	Shift Fork & Roller Assy	1	32613		32613	32425	RT ONLY
15	Shift Unit Mounting Stud	2	119863		119863	119863	RT ONLY
16	Shift Fork Seal & Spring Assy	1	119855 ★		119855 ★	119855 ★	RT ONLY
17	Shift Unit Assy	1	73507		73507	73507	RT ONLY
18	Lockwasher	2	119857		119857	119857	RTONLY
19	Stud Nut	2	63028		63028	63028	RTONLY
20	Diff. Bearing Adjuster (RH)	1	110243		27842	27842	
	Diff. Bearing Adjuster (LH)	1	56932		56932	56932	
21	Diff. Bearing Cup (RH)	1	9803 ★•		9803 ★•	9803 ★•	
	Diff. Bearing Cup (LH)	1	27816 ★•		27816 ★•	27816 ★•	
22	Diff. Bearing Cone (RH)	1	27813 ★•		27813 ★•	27813 ★•	
	Diff. Bearing Cone (LH)	1	27817 ★•		27817 ★•	27817 ★•	
23	Sliding Clutch	1	113596		113596	113596	RTONLY
24	Sun Gear	1	113598		113598	113598	RP ONLY
25	Sun Gear Retainer	1	43178		43178	43178	RP ONLY
26	Shift Unit Opening Cover	1	45521		45521	45521	RP ONLY
27	Cap Screw	2	20807		20807	20807	RP ONLY
28	Lockwasher	2	90415		90415	90415	RP ONLY
29	Gear Support Case (RH)	1	110148		116568	116568	
	Gear Support Case (LH)	1	27838		27838	27838	
30	RING GEAR & DRIVE PINION SET Includes Item 55	1		Matched Parts; see separate listing on page 18-19			
31	RING GEAR NUT & BOLT KIT	1	87955		87955	87955	
	Bolt	8	44358		44358	44358	
	Nut	8	60599		60599	60599	
32	Gear Support Thrust Washer (RH)	1	27827 ★		27827 ★	27827 ★	
	Gear Support Thrust Washer (LH)	1	43270 ★		43270 ★	43270 ★	
33	Idler Pinion Pin	4	27861		27861	27861	

Item No.	Part Name	Qty Per Axle	DT/DP341, DT/DP381 (P) DT/DP402 (P) DT/DP401-P DT/DP451-P	DT/DP340 DT/DP380 (P) DT/DP400-P	34DT/DP 38DT/DP	Remarks
34	Idler Pinion	4	27835	27835	27835	
35	High-Speed Clutch Plate	1	56931	56931	56931	
	WHEEL DIFF. CASE KIT	1	101878	101878	101878	
	Includes Items 36-37					
36	Diff. Case w/clutch plate pin (Casting 96268)(LH)(NSS)	1	98182	98182	98182	
	Diff. Case (RH)(NSS)	1	96279	96279	96279	
37	Diff. Case Cap Screw	8	96283	96283	96283	
	WHEEL DIFF. SIDE GEAR & PINION KIT					
	Includes Items 38-42					
	Models: 34, 340, 341	1	114469	98850	98850	
	38, 380, 381, 402	1	114470	85358	85358	
	400, 401, 451	1	98853	98853		
	WHEEL DIFF. KIT LESS SIDE GEARS	1	118748	118748	118748	
	Includes Items 39-42					
38	Side Gear	2				
	Models: 34, 340, 341		110525	37072	37072	
	38, 380, 381, 402		110527	37069	37069	
	400, 401, 451		85486	85486	-	
39	Side Gear Thrust Washer (RH)	1	27827 ★	27827 ★	27827 ★	
40	Side Pinion	4	104139	104139	104139	
	104139 replaces 37071					
41	Side Pinion Thrust Washer	4	27810 ★	27810 ★	27810 ★	
42	Spider	1	38289	38289	38289	
43	Pinion Pilot Bearing	1	15828 ★•	15828 ★•	15828 ★•	
44	Pinion Bearing Cone	2	12496 ★•	12496 ★•	12496 ★•	
45	Pinion Bearing Spacer Washer	-	-	-	-	
46	Pinion Bearing Spacer	AR				
	See listing on page 22					
47	Pinion Bearing Cup	2	12495 ★•	12495 ★•	12495 ★•	
48	Pinion Bearing Cage & Cup Assy	1				
	Ratios 3.55/4.83 & 3.70/5.05 (Cage 75107 NSS)		75108	75108	-	
	Other Ratios (Cage 75109 NSS)		75110	75110	-	
	34/38RTB,C, 34/38RPB,C		-	-	75108	
	34/38RTD,E, 34/38RPD,E		-	-	75110	
49	Pinion Bearing Cage Shim	AR				
	.003"		107567 ★	107567 ★	107567 ★	
	.005"		107568 ★	107568 ★	107568 ★	
	.010"		107569 ★	107569 ★	107569 ★	
	.020"		107570 ★	107570 ★	107570 ★	
	.030"		107571 ★	107571 ★	107571 ★	
50	Cap Screw	6	113325	113325	113325	
51	Lockwasher	6	37207	37207	37207	
	OIL SEAL & SHIM KIT	1	114104	114104	114104	
	Includes Items 16, 49, 52 & RTV					
52	Oil Seal	1	119427 ★•	119427 ★•	119427 ★•	
53	Input Yoke	1				
	See change on page 18					
54	Flat Washer	1	56864	56864	4327	

Item No.	Part Name	Qty Per Axle	DT/DP341, DT/DP381 (P) DT/DP402 (P) DT/DP401-P DT/DP451-P	DT/DP340 DT/DP380 (P) DT/DP400-P	34DT/DP 38DT/DP	Remarks
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55	Pinion Nut	1	95206	95206	-	
	Ratios 3.70-4.33 (1-31/32" spline)	-	-		95206	
	Ratios 4.33-7.17 (1-3/4" spline)	-	-		95205	
	Gasket Compound	AR	107276 ★•	107276 ★•	107276 ★•	

NNS—Not Sold Separately

Differential Lockout (Forward Axle) Current Production Model

Item No.	Part Name	Axle	Eaton Part No.	Remarks
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	Air-Operated Lockout Assy.	1	123216	Models w/lube pump
	Includes Items 1-10	1	123217	Models w/o lube pump
	REPAIR KIT			
	Includes Items 6-9	1	211197	Models w/lube pump
			211198	Models w/o lube pump
1	Cap Screw	2	210381	
2	Lockwasher	2	90415	
	PISTON KIT			
	Includes Items 3-8	1	121332	Models w/lube pump
		1	121333	Models w/o lube pump
3	Mounting Bracket	1	118997	
4	Piston Housing	1	119923	
5	Locknut	1	113628	
6	Piston	1	119913	Models w/lube pump
		1	119912	Modelsw/olubepump
7	Piston "O" Ring	1	210180	
8	Shoulder Washer	1	210452	
9	Compression Spring	1	31038	
10	Shift Fork & Push Rod Assy.	1	102613	Models w/lube pump
		1	45859	Models w/o lube pump

Differential Lockout (Forward Axle) Non-Current Production Model

Item No.	Part Name		Qty. per Axle	Standard Part No.	Navistar Reversed-Air Part No.	Remarks
	Air-Operated Lockout Assy	NSS (Note 1)	1	58421	96919	Models w/o lube pump
	Includes Items 1-19 unless noted	NSS (Note1)	1	104600	107621	Models w/lube pump
	DIFFERENTIAL AIR LOCKOUT		1	211200	—	Models w/o lube pump
	RETROFIT KIT (Note 1)		1	211199	—	Models w/lube pump
	LOCKOUT BODY KIT		1	34779	—	Models w/o lube pump
	Includes Items 1-9		1	104599	—	Models w/lube pump
	AIR LOCKOUT SERVICE KIT		1	211201	211202	Models w/o lube pump
	Includes Items 3-8,12,16,18-20					
1	Shift Cylinder Body		1	32828	96913	
2	Shift Cylinder Piston		1	32834	96915	
3	Piston Stop	NSS	1	102616	—	Models w/lube pump
4	Piston Grommet	NSS	1	32832	32832	
5	Piston Felt Oiler	NSS	2	96916	96916	
6	Push-Rod Grommet	NSS	1	32826	—	
7	Push-Rod Flat Washer	NSS	1	111406	111406	
8	Cover Grommet	NSS	1	60817	60817	
9	Body Cover		1	32831	96914	Models w/o lube pump
	Body Cover		1	32831	32831	Models w/lube pump
10	Cover Cap Screw		4	79363	79363	
11	Lockwasher		4	90419	90419	
12	Push-Rod Nut	NSS	1	90206	90206	
13	Body Cap Screw		2	90031	90031	
14	Lockwasher		2	90415	90415	
15	Shift Fork Assy		1	45859	96715	Models w/o lube pump
	Shift Fork Assy		1	102613	107620	Models w/lube pump
16	Compression Spring	NSS	1	31038	126705	
17	Cover Reducer Bushing		1	—	108223	Models w/lube pump
18	Push-Rod to Piston Seal Ring		1	—	96912	
19	Push-Rod to Body "O" Ring		1	—	96911	
20	Gasket Compound		AR	107276	107276	

NOTE 1: Air-Operated Lockout Assembly 58421 and 104600 are no longer available. If it is necessary to repair complete unit, use Differential Air Lockout Retrofit Kits 211200 or 211199.

Axle Housing & Axle Shafts

Item No.	Part Name	Qty. per Axle	Eaton Part No.	Remarks
1	Axle Shaft	2		
	34D, D340		56980	Length 40-29/32" Flange Holes 12 (.783") taper holes OEMs*
	16 splines, 1.980 O.D.		62165	41-5/16" 12 (.750") taper holes
	D341		110882	40-29/32" 12 (.783") taper holes 1
	39 splines, 2.000" O.D.		110866	41-5/16" 12 (.745") taper holes 3
	38D, D380 (P)		56981	40-1/8" 8 (.760") thru holes
	16 splines, 2.125" O.D.		80929	40-5/8" 6 (.843") taper holes
			62166	41-5/16" 6 (.948") taper holes
			76917	41-5/16" 6 (.635") thru holes
			81216	41-19/32" 8 (.948") taper holes
	D381 (P), D402 (P)		110887	40-1/8" 8 (.760") thru holes
	41 splines, 2.100" O.D.		110883	41-5/16" 8 (.640") taper holes 3,7
			110888	41-5/16" 6 (.635") thru holes 2,5,6
			110884	41-19/32" 8 (.948") taper holes 1
	D400-P, D401-P		88192	41-3/8" 8 (.640") taper holes 1
	33 splines, 2.125" O.D.		91133	41-3/8" 8 (.635") thru holes 6
			94224	40-13/32" 8 (.750") thru holes
			99407	41-7/32" 8 (.635") thru holes 2,5,6
2	Hub Bearing Adjuster Nut (see Note 1) (Forward and Rear Axles) (varies by OEM)	4	19188**	(0.47" thick) D341, 34D
			78944	(3/8" thick) D381, 381-P, 402, 402-P, 38D
			95372	(0.562" thick) D381, 381-P, 402, 402-P, 38D
			11249**	(17/32" thick) all except D341
2			119881	(outer) all except D341
2			119882	(inner) all except D341
3	Bearing Adjuster Lockwasher (see Note 1) (Forward and Rear Axles) (*varies by OEM)	2	30714	
			11245	
			119883	all except D341
4	Axle Housing Assy (forward & rear)	1		See OEM Catalog
5	Axle Housing Cover (forward axle only)	1		See OEM Catalog
6	Axle Housing Cover Locating Dowel	2	7641	
7	Axle Housing Cover Cap Screw	1	119784	
8	Axle Housing Cover Stud	11	47500	
9	Nut	11	42364	
10	Lockwasher	11	90415	
11	Magnetic Drain Plug		54264	
12	Magnetic Filler Plug (rear axle) (not illustrated)		54254	3/4"
			75130	1"

Item No.	Part Name	Qty. per Axle	Eaton Part No.	Remarks
	DIFF. CARRIER ATTACHING PARTS			
	FORWARD AXLE			
13	Stud	11	36435	
14	Nut	11	90208	
15	Lockwasher	11	90422	
16	Cap Screw	1	38589	
17	Lockwasher	1	90422	*OEMs— 1-Ford, 2-Freightliner, 3-GMC, 4-Navistar, 5-Kenworth, 6-Peterbilt, 7-White.
	REAR AXLE			
13	Stud	12	36435	**Hub Bearing Adjuster Nut Wrench is available, nut 19186, use wrench 15751; nut 11249, use wrench 24042.
14	Nut	12	90208	
15	Lockwasher	12	90422	

Note 1: Wheel Nut & Lock Kit #121343 contains 2 each 119881 outer nut, 119882 inner nut, 1.1988 nut lock and instruction sheet. This kit is recommended when servicing all D381 thru D451 axes. However, the individual parts are not interchangeable with existing parts.

Axle Housings (forward and rear)

All drive axles are mounted in Eaton® fabricated steel axle housings. These housings are developed to meet specific OEM requirements for dimensions, suspension mounting and brakes. If housing replacement is necessary, provide the truck dealer with the following information:

- Year, make and model of the truck.
- Axle model and ground loading capacity.
- Axle specification number.
- Type of brakes used.

Axle Shafts (forward and rear)

These axles will be found with a number of different axle shafts, on the basis of OEM specification. When ordering replacement axle shafts, note the part number stamped into the flange.

Ring Gear and Pinion Identification

Ring Gear and Drive Pinion are matched parts and must be replaced in sets.

Complete identification is stamped on both parts shown in the adjacent drawing.

Order by Eaton "Set No." which includes drive pinion nut.

Drive Pinion and Ring Gear Set

Dual Range or Planetary Double Reduction

Ratios	Gear Set	Gear (NSS)	Pinion (NSS)	Ratios	Gear Set	Gear (I'S\$)	Pinion (NSS)
Forward Axles				Rear Axles			
DT341, 381, 381-P, 401-P, 402, 402-P, 451-P				RT341, 381,401,402,451			
DP341, 381, 381-P, 401-P, 402, 402-P, 451-P				RP341, 381,401,402,451			
			Pinion Spline;				Pinion Spline;
			41,2.100" dia.				39,2.000" dia.
3.55/4.83*	111186	105865(39T)	111139(11T)	3.55/4.83*	111513	105864(39T)	111466(11T)
3.70/5.05*	111187	53864(37T)	111140(10T)	3.70/5.05*	111514	53867(37T)	111467(10T)
3.90/5.32	113528	113154(39T)	111141(10T)	3.90/5.32	113526	113519(39T)	111468(10T)
4.11/5.61	111188	85390(37T)	111142(9T)	4.11/5.61	111515	85110(37T)	111465(9T)
4.33/5.51	111189	85352(39T)	111143(9T)	4.33/5.91	111516	85112(39T)	111470(9T)
4.56/6.21	111150	85354(41T)	111144(9T)	4.56/6.21	111517	85114(41T)	111471(9T)
4.88/6.65	111191	85356(39T)	111145(8T)	4.88/6.65	111518	85116(39T)	111472(8T)
5.29/7.21	111192	85358(37T)	111146(7T)	5.25/7.21	111515	85118(37T)	111473(7T)
5.57/7.60	111153	85400(39T)	111147(7T)	5.57/7.60	111520	75156(39T)	111474(7T)
6.14/6.38	111154	75170(43T)	111148(7T)	6.14/8.38	111521	66850(43T)	111475(7T)
6.50/8.86	111155	75172(39T)	111145(6T)	6.50/8.86	111522	66852(39T)	111476(6T)
7.17/9.77	111156	75174(43T)	111150(6T)	7.17/5.77	111523	65854(43T)	111477(6T)

*Uses 16" gear. All others use 16-1/2" gear.

Input and Output Yokes

Models

Forward Axles

Models

Rear Axles

Input (Yokes & Mudslinger Assy.)

1810(30°)	111525
1710(27.5°)	111527
1760(30°)	111529

Output (Yoke)

1710(45°)	126630
1610(45°)	119645
1710(25.5°)	126298
1610(29-1/2°)	126633

Input (Yoke & Mudslinger Assy.)

1710(45°)	111531
1610(45°)	111533
1710(33.5°)	111535
1610(35-1/2°)	111537
1610(23°)	111541

Input (Flange & Mudslinger Assy.)

7C	111539
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Gear Sets

The charts below indicate how many axle models can be serviced using the new high-torque gear sets when slight modifications are made. In all cases, the "replace with" column is upgraded gear sets.

**Forward Axle Models: DT340, DT380, DT380-P, DT400-P (Dual Range)
DP340, DP380, DP380-P, DP400-P (Double Reduction)**

Ratio	Old Part No.	Replace with	Pinion Splines: 41, 2.100" die.
3.55/4.85	—	111186	Plus items listed below and 110731 cage & cup
3.70/5.05	95547	111187	
4.11/5.61	95567	111188	
4.33/5.91	95568	111189	
4.56/6.21	95569	111190	
4.88/6.65	95570	111191	Plus items listed below and 110733 cage & cup
5.29/7.21	95571	111192	
5.57/7.60	95572	111193	
6.14/8.38	95573	111194	
6.50/8.86	95574	111195	
7.17/9.77	95575	111196	

Plus 110844 Helical & Bushing, 110845 Pinion Helical, 110736 thru 110803 Pinion Bearing Spacer (as req'd), 110846 Outer Pinion Bearing Cone (118806 slotted nut and 118807 roll pin are included w/gear set).

Note: These changes can be applied to 34DT, 38DT, 42DT, 34DP, 38DP, 42DP, it power divider conversion is also used.

**Rear Tandem Axles: 34RT, 38RT, RT340, RT380, RT400 (Dual Range)
34RP, 38RP, RP340, RP380, RP400 (Double Reduction)**
**Single Drive Axles: 17200-1,17220-1,18200-1,18220-1 (Dual Range)
17300-1,17320-1,18300-1,18320-1 (Double Reduction)**

Gear Dia. Models	16"		16-1/2"		Replace with	Pinion Splines: 39, 2.000" die.
	17-18200-1 34/38RTB,C 17/18300-1 34/38RPB,C	17-18220-1 34/38RTD,E	RT340, 380,400	RP340, 380,400		
Ratio:	Old Part Numbers					
3.55/4.85	—	—	—	—	111513	Plus new Input Yoke
3.70/5.05	96833	—	96833	—	111514	
4.11/5.61	96834	—	98115	—	111515	
4.33/5.91	96835	—	98116	—	111516	
4.56/6.21	96836	—	98117	—	111517	
4.88/6.65	96837	—	98118	—	111518	
5.29/7.21	96838	—	98119	—	111519	
5.57/7.60	96839	96840	98120	—	111520	
6.14/8.38	—	96841	98121	—	111521	
6.50/8.86	—	96842	98122	—	111522	
7.17/9.77	—	96843	98123	—	111523	

When changing ratios:
3.55-3.70 use 75108 Cage & Cup Assembly
4.11-7.17 use 75110 Cage & Cup Assembly

For yoke information, refer to page 23.

Power Divider Conversion Kit

Axle Models:
34D, 38D, 42D, D340,D380
 (all gearing - models w/o pump)
 (use Swing Unit for pump conversion)

Axle Models:
D380-P, D400-P to High Torque
 w/Lube Pump

Old Part No.	Replace with		Old Part No.	Replace with
87103	118764	Power Divider Conversion Kit	106709	115126 Input Shaft Kit, and
45478	45478	"D" Washer, and	85432	110808 Cover, Cup & Seal Assembly, and
45498	45498	0.003" shim, and	46977	113556 Pinion Helical Gear(10 splines), and
45499	45499	0.005" shim, and	74991	
70709	70709	0.005" shim, and		110844 Cover, Cup & Seal Assembly, and
85404	85404	Flat Washer, and		91136 Bearing Cone, and
85406	85406	0.020" shim, and		Input Yoke A
85423	110826	Cover, Cup & Seal Assembly, and		
85425	91136	Bearing Cone, and		
85427	Not Used			
85429	85429	Thrust Washer		
85432	110844	Helical Side Gear & Bushing, and		
85436	85436	Output Shaft Side Gear, and		
85994	85994	Output Shaft Snap Ring, and		
85997	85997	Helical Gear Snap Ring, and		
87104	See chart	(available yoke tag)		
95207	95207	Nut, and		
103283	110823	Input Shaft, and		
104509	104509	Inter-axle Differential, and		
107276	107276	RTV Sealant, and		
109069	109069	Torque Tag, and		
	113556	Pinion Helical Gear (10 Spline)		

Available Yoke Tag

Eaton Yoke Part No.	Yoke Series
111525	1810(30°)
111527	1710(26°)
111529	1760(26-1/2°)

Helical Gear Conversion Kit #113561

This kit was designed to upgrade D340/D380 helical gears with the same product improvements that were incorporated into the high-torque tandems. The helical gears in this kit are a 5-pitch design, versus the original 7-pitch design, which makes them approximately 39 percent stronger. This improvement is particularly desirable for axles used with high-torque engines and fast ratios.

The pinion helical gear in this kit has 10 splines to accommodate all D340/D380 pinions, regardless of ratio. The helical side gear and bushing assembly is identical to the D341/D381 helical gear and is compatible with the sliding clutch, inter-axle differential, input shaft and output shaft side gears. Because the pitch is different, these gears will have to be replaced as a set, but once installed can later be serviced with individual parts.

For Axle Models D340, D380, D380-P, D400-P, when using original pinion and ring gear set. All ratios. All gearing types.

If new pinion and ring gear set is used during rebuild, use instructions for helical gears in gear set section (pg. 19).

113561 Kit includes:

- 110844 Helical Side Gear & Bushing
- 113556 Pinion Helical Gear (10 splines)

Note: Kit must be used if changing either current helical gear.

Replaces Current Part No.

- 85432
- 46977 or 74991

Differential Carrier Assembly

These carrier assemblies are complete, less input yoke and shift units.

Gear Ratio (Involute Spines)	Forward Axle Part No.					Gear Ratio	Rear Axle Part No.		
	DT341	*DT341-P	DT402 DT381	DT402-P DT381-P	DT451-P DT401-P		RT341	RT402 RT381	RT451 RT401
	39	39	41	41	33		39	41	33
3.55/4.83	951210	951232	951221	951243	951254	3.55/4.83	951356	951367	951378
3.70/5.05	951211	951233	951222	951244	951255	3.70/5.05	951357	951368	951379
3.90/5.31	951917	951919	951919	951920	951921	3.90/5.31	951922	951915	951923
4.11/5.61	951212	951223	951223	951245	951256	4.11/5.61	951358	951369	951380
4.33/5.91	951213	951224	951224	951246	951257	4.33/5.91	951359	951370	951381
4.56/6.21	951214	951225	951225	951247	951258	4.56/6.21	951360	951371	951382
4.88/6.65	951215	951226	951226	951248	951259	4.88/6.65	951361	951372	951383
5.29/7.21	951216	951238	951227	951249	951260	5.29/7.21	951362	951373	951384
5.57/7.60	951217	951239	951228	951250	951261	5.57/7.60	951363	951374	951385
6.14/8.38	951218	951240	951229	951251	951262	6.14/8.38	951364	951375	951386
6.50/8.86	951219	951241	951230	951252	951263	6.50/8.86	951365	951376	951387
7.17/9.77	951220	951242	951231	951253	951264	7.17/9.77	951366	951377	951386

Gear Ratio (Involute Spines)	Forward Axle Part No.					Gear Ratio	Rear Axle Part No.		
	DP341	DP341 -P	DP402 DP381	DP402-P DP381-P	DP451-P DP401 -P		RP341	RP402 RP381	RP451 RP401
	39	39	41	41	33		39	41	33
4.83	951265	951287	951276	951298	951309	4.83	951389	951400	951411
5.05	951266	951288	951277	951299	951310	5.05	951390	951401	951412
5.31	—	—	—	—	—	5.31	—	951916	—
5.61	951267	951289	951278	951300	951311	5.61	951391	951402	951413
5.91	951268	951290	951279	951301	951312	5.91	951392	951403	951414
6.21	951269	951291	951280	951302	951313	6.21	951393	951404	951415
6.65	951270	951292	951281	951303	951314	6.65	951394	951405	951416
7.21	951271	951293	951282	951304	951315	7.21	951395	951406	951417
7.60	951272	951294	951283	951305	951316	7.60	951396	951407	951418
8.38	951273	951295	951284	951306	951317	8.38	951397	951408	951419
8.86	951274	951296	951285	951307	951318	8.86	951398	951409	951420
9.77	951275	951297	951286	951308	951319	9.77	951399	951410	951421

Available with inter-axle differential lube pump only on a service basis.

Hybrid Differential Carrier Assemblies

These hybrid diff. carrier assemblies were introduced in 1985. Because of Eaton's unique interchangeability, one hybrid tandem replaces both first and second generation tandems in the same ratio and gearing type. These new carriers contain old straight spline side gears (except 400 and 401 series which use the same side gears). New yokes are required to use the new carrier (see instructions on page 23)

	Hybrid DT341	Hybrid DT341-P	Hybrid DT402	Hybrid DT402-P	DT401-P	Hybrid RT341	Hybrid RT402	RT401
Replaces:	340T DT340	DT340-P	36DT DT380 DT361	DT380-P DT361-P	DT400-P	34RT RT340	38RT RTI RT381	RT400
Gear Ratio (Straight Splines)	16	16	16	16	16	16	16	16
3.55/4.83	951729	951740	951831	951842	951254	951751	951853	951378
3.70/5.05	951730	951741	951832	951843	951255	951752	951854	951379
4.11/5.61	951731	951742	951833	951844	951256	951753	951855	951380
4.33/5.91	951732	951743	951834	951845	951257	951754	951856	951381
4.56/6.21	951733	951744	951835	951846	951258	951755	951857	951382
4.88/6.65	951734	951745	951836	951847	951259	951756	951858	951383
5.29/7.21	951735	951746	951837	951848	951260	951757	951859	951384
5.57/7.60	951736	951747	951838	951849	951261	951758	951860	951385
6.14/8.38	951737	951748	951839	951850	951262	951759	951861	951386
5.50/8.86	951738	951749	951840	951851	951263	951760	951862	951387
7.17/9.77	951739	951750	951841	951852	951264	951761	951863	951388
	Hybrid DP341	Hybrid DP341-P	Hybrid DP402	Hybrid DP402-P	DP401-P	Hybrid RP341	Hybrid RP402	RP401
Replaces:	340P DP340	DP340-P	38DP DP380 DP381	DP380-P DP381-P	DP400-P	34RP RP340	38RP RP380 RP381	RP400
Gear Ratio								
4.83	951762	951773	951864	951875	951309	951784	951886	951411
5.05	951763	951774	951865	951876	951310	951785	951887	951412
5.61	951764	951775	951866	951877	951311	951786	951888	951413
5.91	951765	951776	951867	951878	951312	951787	951889	951414
6.21	951766	951777	951868	951879	951313	951788	951890	951415
6.65	951767	951778	951869	951880	951314	951789	951891	951416
7.21	951768	951779	951870	951881	951315	951790	951892	951417
7.60	951769	951780	951871	951882	951316	951791	951893	951418
8.38	951770	951781	951872	951883	951317	951792	951894	951419
8.86	951771	951782	951873	951884	951318	951793	951895	951420
9.77	951772	951783	951874	951885	951319	951794	951896	951421

Pinion Bearing Spacers

**34D, 38D, D340, D380(P), 0400-P
34R, 38R, R340, R380, R400**

.623"-91552	.634"-91564	.645"-91602
.624"-91553	.635"-91566	.646"-91604
.625"-91554	.636"-91568	.647"-91606
.626"-91555	.637"-91572	.648"-91608
.627"-91556	.638"-91576	.649"-91610
.628"-91557	.639"-91580	.650"-91611
.629"-91558	.640"-91584	.651"-91612
.630"-91559	.641"-91588	.652"-91613
.631"-91560	.642"-91592	.653"-91614
.632"-91561	.643"-91596	.654"-91615
.633"-91562	.644"-91600	

**D341, D381(P), D401-P, 0402(P)
R341, R381, R401, R402**

.472"-110736	.484"-110748	.496"-110784
.473"-110737	.485"-110749	.497"-110788
.474"-110738	.486"-110750	.498"-110790
.475"-110739	.487"-110752	.499"-110792
.476"-110740	.488"-110754	.500"-110794
.477"-110741	.489"-110756	.501"-110796
.478"-110742	.490"-110760	.502"-110798
.479"-110743	.491"-110764	.503"-110799
.480"-110744	.492"-110768	.504"-110800
.481"-110745	.493"-110772	.505"-110801
.482"-110746	.494"-110776	.506"-110802
.483"-110747	.495"-110780	.507"-110803

Yoke Selection Guide (when using Hybrid Diff. Carrier)

34D/D380 and D340/380/400 carrier assemblies can be replaced by *new* D341/1381/401/402 carrier assemblies. These *new* carriers contain old straight spline side gears (except 400 and 401 series which use the same side gears).

New yokes (shown below) are required to use the *new* carrier. With your old yokes removed, measure the dimensions shown and choose new yokes to match your old yoke dimensions.

FORWARD AXLE

	Old A Dim.	A Dim.	B Dim.	C Dim.	Part Number
Input w/mudslinger - 44 involute splines					
1710		5.190"	1.939"	6.093"	111527
1760		5.250"	1.939"	7.001"	111529
1810		5.250"	1.939"	7.551"	111525
Output w/mudslinger - 34 involute splines					
1610	4.748"	4.938"	1.876"	5.312"	126633
1610	6.000"	6.190"	1.876"	5.312"	119645
1710	5.250"	5.440"	1.939"	6.093"	126298
1710	6.123"	6.313"	1.939"	6.093"	126630

REAR AXLE

	A Dim.	B Dim.	C Dim.	Part Number
Input w/mudslinger - 39 involute splines				
1610	4.718"	1.876"	5.312"	111541
1610	5.310"	1.876"	5.312"	111537
1610	6.000"	1.876"	5.312"	111533
1710	5.250"	1.939"	6.093"	111535
1710	6.125"	1.939"	6.093"	111531
72N/7C	4.375"	N/A	6.219"	111539

NOTE: The "A" Dimension on old-style output yokes will be .190" shorter because of the elimination of the rear bearing retaining washer on the new family of axles.

Wheel Differential Kits

NEW!

Wheel Diff. Side Pinion Kit which contains spider, side pinions, side gear thrust washers, and side pinion thrust washers.

With this one kit — 118748 — and loose side gears, you can service all three generations of highway tandems.

Wheel Diff. Side Pinion Kit

NEW! Kit No.	Axle Model	Side Gear	Spline Info.
118748	34, 340 Series	37072	16 Str.
(contains: side pinion 104139, spider 38289, and thrust washers 27810 and 27827)	341 Series	110525	39 Inv.
	38, 380 Series	37069	16 Str.
	381 Series	110527	41 Inv.
	400, 401 Series	85486	33 Inv.

Wheel Diff. Kits (Includes Side Gear, Side Pinions, Thrust Washers & Spider)

98850
114469
85358
14470
98853

Axle Shift System

Item No.	Part Name	Qty. per Axle	Eaton Part No.	Remarks
1	Shifter Valve			(See page 25)
2	Rear Axle Shift Unit	4	73507	(See page 26)
3	Forward Axle Shift Unit	1	73503	(See page 26)
4	Plug	1	58309	(Forward axle only)
5	"O" Ring	1	56659	(Forward axle only)
6	Lockout Cylinder	1		(See page 14)
7	Quick Release Valve	2	66468	
8	Elbow Tube Connector	2	66476	(In Quick Release Valve)
9	Speedometer Adapter Pressure Switch	1	56071	(Normally Closed Type)
10	Speedometer Adapter	1		(Refer to OEM Catalog)
11	Lockout Valve (toggle-type)	1	74265	(In cab)
	Lockout Instruction Tag	1	104608	(In cab)
12	Tubing & Related Parts	AR		
	Green		66472	(Supply)
	Red		66473	(To Quick Release Valve)
	White		66475	(Exhaust)
	Loom		66479	
	Loom Clip		66478	
13	Connector	4	66471	

Air Shifter Valve

Item No.	Part Name	Qty. per Axle	Eaton Part No.	Remarks
	Air Shifter Valve Assy. (Varies with Lever Size)	1	74876 74877 74878 74879	Lever Size... (5/8"-11) (1/2"-20) (1/2"-13) (3/8"-24)
1	Cover Screw	1	66459	
2	Cover	1	70740	
	AIR VALVE REPAIR KIT	1	78439	Includes Items 3-7
3	"O" Ring	1	66455	
4	"O" Ring Guide	1	66454	
5	Shifter Plate	1	74860	
6	Spring	1	74861	
7	Shifter Knob (Valve Lock)	1	74863	
8	Housing (Varies with Lever Size)	1	74868 74869 74870 74871	Lever Size... (5/8"-11) (1/2"-20) (1/2"-13) (3/8"-24)
9	Jam Nut Varies with lever size.	1	56286 59600 56278 56526	(5/8"-11) (1/2"-20) (1/2"-13) (3/8"-24)

Piston Air Shift System

Item No.	Part Name	Qty. per Axle	Eaton Part No.	Remarks
	Piston Air Shift Unit Assy. (Electric Over Air or Straight Air) (Includes Items 1-23)	1	73503	(DT only)
		1	73507	(RT only)
1	Cover Assy. (includes Item 2)	1	73486	(DT only)
		1	73487	(RT only)
2	Cover Bearing	1	73481	
3	Self-Tapping Screw & Washer Assy.	7	88053	
4	Cover Gasket	1	73488	
5	Cover Plug	1	28325	
6	Actuating Lever Pin	1	73456	
7	Clevis Pin	1	73498	
8	Actuating Lever, Pin & Block Assy.	1	84803	(DT only)
		1	84804	(RT only)
9	Shift Housing Cover	1	73490	
10	Seal Ring	1	73492	
11	Cover Bolt	4	73491	
12	Lock Nut	4	47641	
13	Lock Nut	1	73496	
14	Washer	1	111406	
15	Piston	1	73493	
16	Felt Piston Oiler (strip)	2	96916	
17	Piston O'Ring	1	32832	
18	Grommet	1	32826	
19	Push Rod	1	73497	
20	Compression Spring	1	73494	
21	Piston Stop	1	73495	
22	Housing Assy. (includes Items 3 & 23)	1	82428	(DT only)
		1	82429	(RT only)
23	Housing Bearing	1	73481	
24	Cap Screw	1	58309	(DT only)
25	"O"Ring	1	56659	

Service Parts Kits

	Forward Axles			Rear Axles		
	341	341				
	381(P)	381				
	401-P	340		401	340	
	402(P)	380(P)	34	402	380	34
	451-P	400-P	38	451	400	38
DIFFERENTIAL CARRIER KITS						
★ Basic Overhaul Kit	115124	110584	110574	110585	110585	110585
• Bearing Kit	115125	99045	99054	99051	99051	99051
WHEEL DIFFERENTIAL KITS						
Complete						
34,340,341	114469	98850	98850	114469	98850	98850
38,380,381,402	114470	85358	85358	114470	85358	85358
400,401	98853	98853	-	98853	98853	-
Less Side Gears	118747	118748	118748	118748	118748	118748
CASE KIT	101878	101878	101878	101878	101878	101878
INTER-AXLE DIFFERENTIAL						
Assembly	104509	104509	95213	-	-	-
Case Kit	94810	94810	91850	-	-	-
RING GEAR BOLT & NUT KIT						
	87955	87955	87955	87955	87955	87955
OUTPUT SHAFT, NUT & BUSHING KIT						
	115123	98603	98603	-	-	-
INPUT SHAFT, WASHER & NUT KIT						
Models w/o LubePump	115122	103289	98693	-	-	-
Models w/Lube Pump	115126	106709	-	-	-	-
OIL SEAL & SHIM KIT						
	114395	-	-	114104	114104	114104
LUBE PUMP REPLACEMENT KIT						
	106368	106368	-	-	-	-
DUAL RANGE MODELS:						
Clutch Plate Kit	60608	60608	60608	60608	60608	60608
Air Shifter Kit	78439	78439	78439	78439	78439	78439
LOCKOUT REPAIR KIT						
Models w/o Lube Pump	211198	SEE PAGE 14-15				
Models w/Lube Pump	211197					

Location of Model Identification

Differential carrier identification is either stamped on the carrier itself or on a metal tag affixed to the carrier. Location on the carrier is the same.

Carrier Assembly Serial Numbers

Starting in May of 1987, Eaton began assigning serial numbers to carrier assemblies, instead of just a date code. These serial numbers will be stamped into the carrier casting.

The carrier assembly serial number will consist of ten characters; a letter followed by nine numerals. A sample carrier assembly serial number is shown below.

The letter designation indicates the producing plant; either an "H" for our Henderson, Kentucky plant, or "G" for our Glasgow, Kentucky plant. A five digit Julian date code follows, the first two digits indicating the year and the last three indicating the day of the year. The last four digits are a number unique to each axle.



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