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Roadranger®

Dana® Spicer® Drive Axles

All Wheel
4 X 4 Drive System

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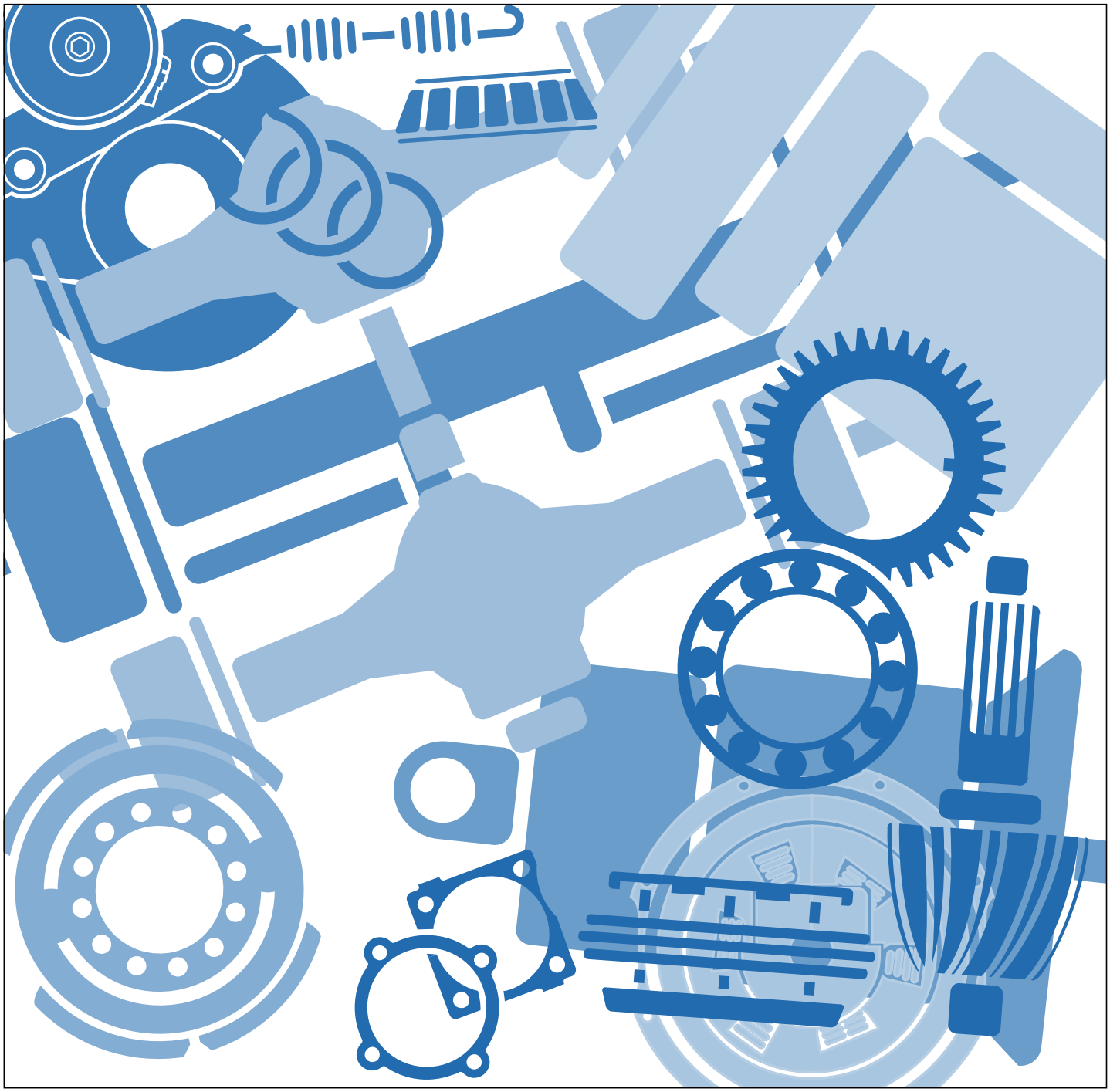
Illustrated Parts List AXIP-0400 November 1999



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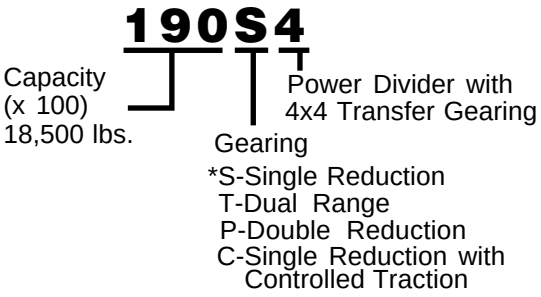
The Eaton® 4x4 Drive System

Axle models and other equipment covered in this publication are listed below.

Eaton® Model No. Identification for 4x4 Rear Axle Systems



Axle Capacity	Axle Gearing Types	
19,000 lbs.	+190S4	Single Reduction*
	+190T4	Dual Range
	+190P4	Double Reduction
22,000 lbs.	220S4	Single Reduction*
	220T4	Dual Range
	220P4	Double Reduction
23,000 lbs.	230S4	Single Reduction*
	230T4	Dual Range
	230P4	Double Reduction
26,000 lbs.	260S4	Single Reduction*
	260T4	Dual Range
	260P4	Double Reduction
30,000 lbs.	300S4	Single Reduction*
	300T4	Dual Range
	300P4	Double Reduction
35,000 lbs.	350S4	Single Reduction*
	350T4	Dual Range
	350P4	Double Reduction

*Available with Controlled Traction Differential

+Supersedes 185S4, 185T4, 185P4

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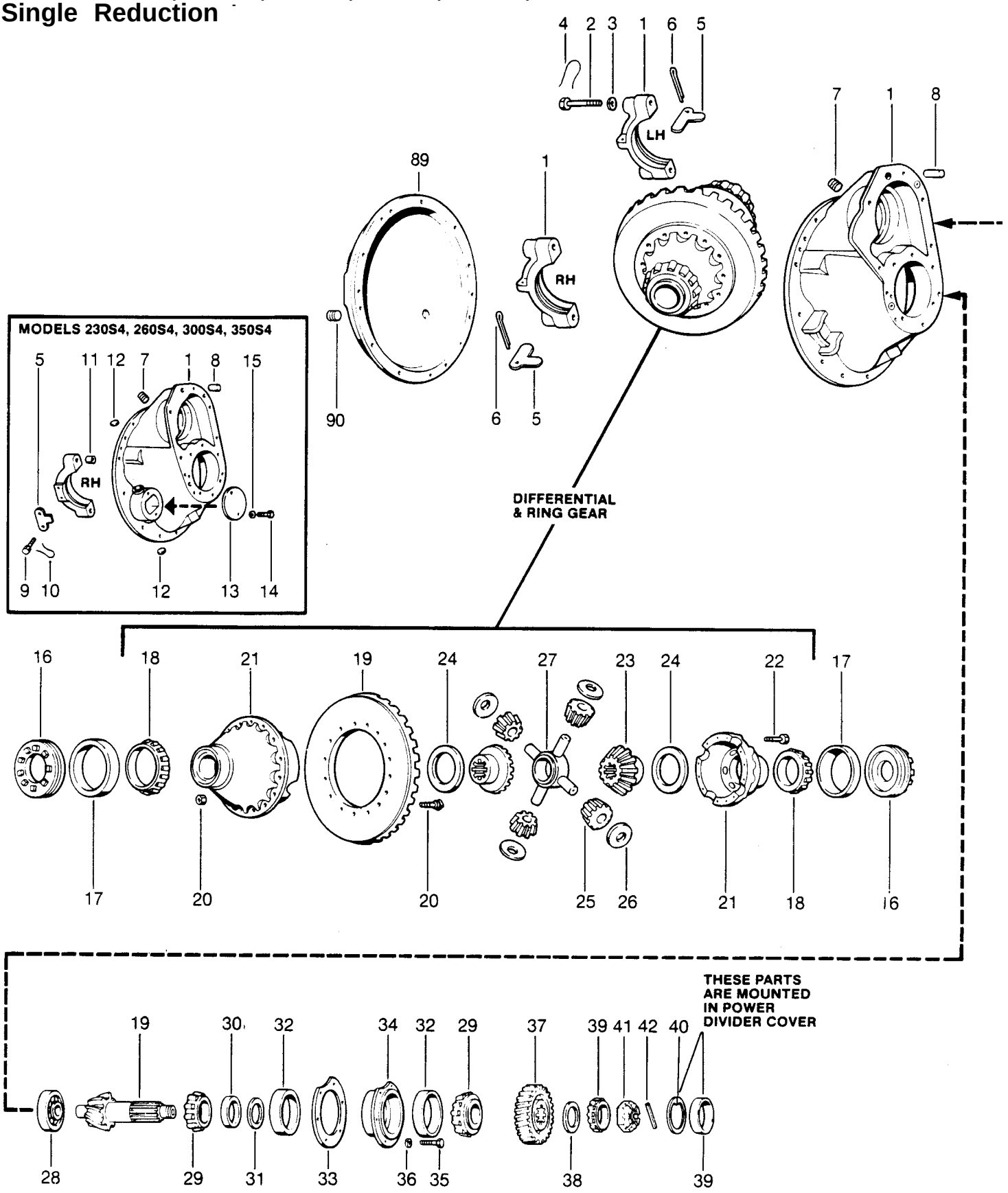
4x4 Rear Axle Differential Carrier
Models 190S4, 220S4, 230S4, 260S4, 300S4, 350S4
Single Reduction



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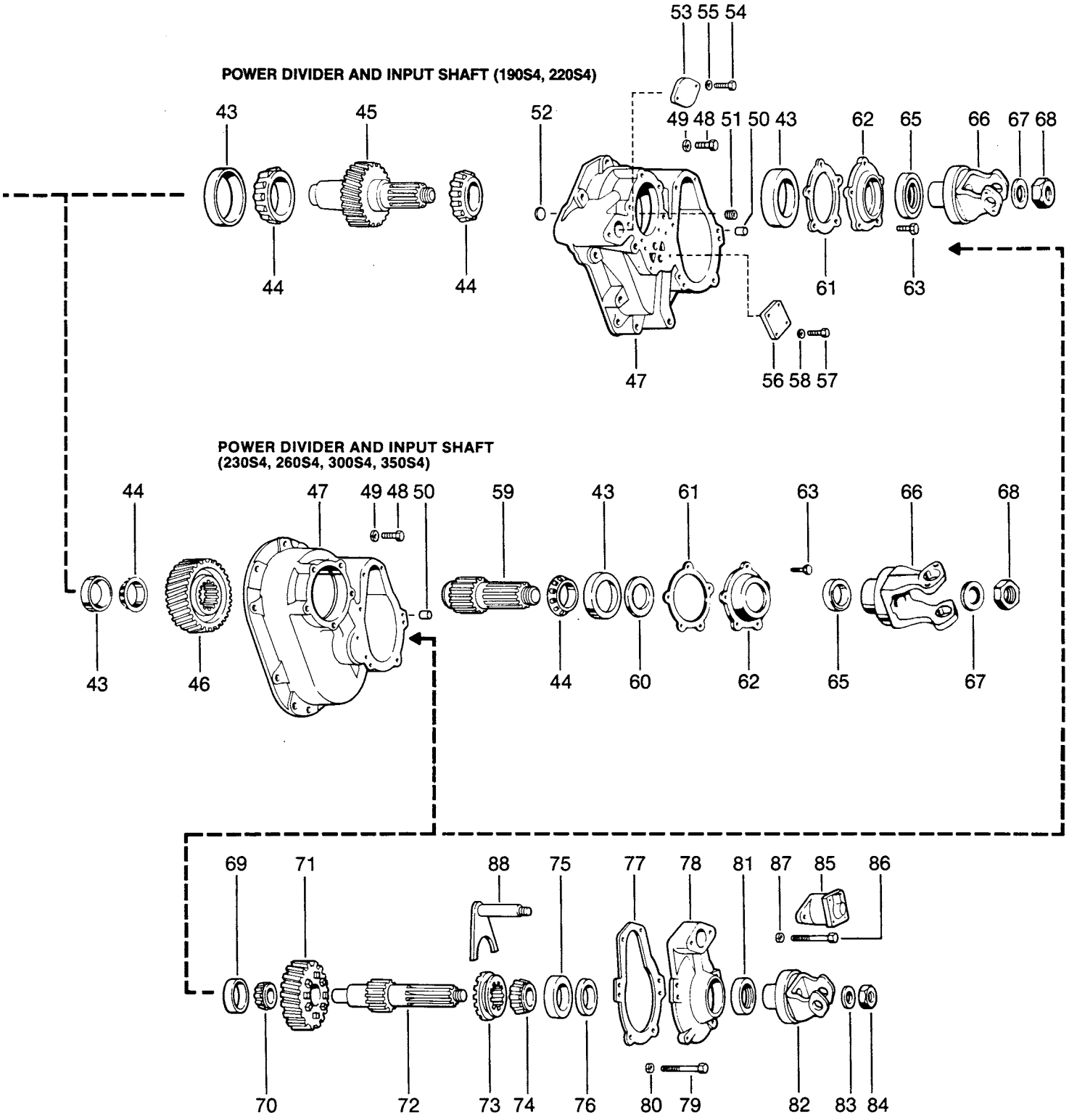

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Item No.	Part Name	Qty. per Axle	190S4 220S4	230S4 260S4	300S4 350S4
1	Diff. Carrier& Bearing Cap Assy	1	115690	106710	106710
	Carrier (NSS)		128107R	110500	110500
	Includes 2-4, 7, 8			**Note 2**	**Note 2**
2	Cap Screw	4	127179	32732	32732
3	Flat Washer	4	26772	32912	32912
4	Lockwire	4	90538	12563	12563
5	Adjuster Lock (RH)	1	14275	45448	45448
	Adjuster Lock (LH)	1	13377	14275	14275
6	Cotter Pin (RH)	1	90876	-	-
	Cotter Pin (LH)	1	90873	90876	90876
7	Filler Plug	1	90325	90325	90325
8	Dowel Pin	2	7641	7641	7641
9	Cap Screw (RH)	2	-	12562	12562
10	Lockwire	4	-	12563	12563
11	Dowel Bushing (RH)	2	-	32730	32730
12	Expansion Plug (Upper)	1	-	30703	30703
	Expansion Plug (Lower)	1	-	9797	9797
13	Shift Fork Cover	1	-	45521	45521
14	Cap Screw	2	-	20807	20807
15	Lockwashers	2	-	90415	90415
16	Bearing Adjuster (RH)	1	31562	79898	79898
	Bearing Adjuster (LH)	1	110243	21637	21637
17	Bearing Cup (RH)	1	90943	19529	19529
	Bearing Cup (LH)	1	9803	15092	15092
18	Bearing Cone (RH)	1	6082	27666	27666
	Bearing Cone (LH)	1	27813	27876	27876
19	RING GEAR & DRIVE PINION SET (Matched Parts) See separate listing on page 21				
20	Ring Gear Fasteners (Bolt) - Order Kit 70745	16	67586	67586	67586
	(Nut)	16	60600	60600	60600
	WHEEL DIFF. CASE KIT Includes Items 21-22				
	Ratios 3.55-5.29	1	106397	-	-
	Ratios 5.57-7.17	1	94799	-	-
	Ratios 3.70-4.11		-	98610	98610
	Ratios 4.33-6.67	1	-	98611	98611
21	Diff. Case (Plain Half) (NSS)	1	210017	86777	86777
	Diff. Case (Flanged Half) (NSS)				
	Ratios 3.55-5.29	1	103865	-	-
	Ratios 5.57-7.17	1	88677	-	-
	Ratios 3.70-4.11	1	-	88501	88501
	Ratios 4.33-6.67	1	-	86776	86776
22	Cap Screw	12	96271	88503	88503
	WHEEL DIFF. SIDE GEAR & PINION KIT				
	Includes Items 23-27	1	-	114472	102546
	190S4 - 39 Inv Spline, 230S4 - 36 Inv Spline **(Note 3)**	1	114469	-	-
	220S4 - 41 Inv Spline **(Note 1)**, 300S4 - 39 Inv Spline	1	114470	-	-
	WHEEL DIFF. KIT LESS SIDE GEARS				
	Includes Items 24-27	1	118748	118749	118749
23	Side Gear	2		93401	86779
	190S4 - 39 Inv Spline, 230S4 - 36 Inv Spline	2	110525		
	220S4 - 41 Inv Spline, 300S4 - 39 Inv Spline	2	110527		
24	Side Gear Thrust Washer	2	27827	27274	27274
25	Side Pinion	4	104139	86780	86780

Note 1: Complete No-Spin Unit Available, Part No. 110830 - 41 Inv Spline

Note 2: 106710 Assy Contains Items 2-4, 7-8, 10-13, & 107276 RTV

Note 3: Complete No-Spin Unit Available, P/N 110831 - 36 Inv Spline

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Item No.	Part Name	Qty. per Axle	190S4 220S4	230S4 260S4	300S4 350S4
26	Side Pinion Thrust Washer	4	27810	86781	86781
27	Spider	1	38289	86778	86778
28	Pilot Bearing	1	129175	126187	126187
29	Bearing Cone (Inner)	1	85439	14218	14218
	Bearing Cone (Outer)	1	110846	14218	14218
30	Spacer Washer	1	-	78904	78904
31	Bearing Spacer	AR			
	See separate listing on page 9				
32	Bearing Cup (Inner)	1	14217	14217	14217
	Bearing Cup (Outer)	1	35502	14217	14217
33	Bearing Cage Shim .003"	AR	45461	45461	45461
	.005"		62829	62829	62829
	.010"		45462	45462	45462
	.020"		62830	62830	62830
	.030"		45463	45463	45463
34	Bearing Cage & Cup Assy				
	Includes Item 32 (Cage 78932)	1	-	78914	78914
	Ratios 3.55-3.70 (Cage 110730)	1	110731	-	-
	Ratios all others (Cage 110732)	1	110733	-	-
35	Cap Screw	6	62158	62158	62158
36	Lockwashers	6	37207	37207	37207
37	Helical Gear	1	111310	98390	98390
38	Helical Gear Spacer				
	Ratios 3.55-3.70	1	111316	-	-
	Ratios all others	1	111311	-	-
39	Outer Pinion Support Bearing & Race	1	111314	78916	78916
40	Snap Ring	1	111315	78937	78937
41	Slotted Nut	1	118854	119353	119353
42	Roll Pin	1	118855	118807	118807
43	Input Shaft Bearing Cup (Outer)	1	98388	98385	98385
	Input Shaft Bearing Cup (Inner)	1	90951	98388	98388
44	Input Shaft Bearing Cone (Outer)	1	91136	98384	98384
	Input Shaft Bearing Cone (Inner)	1	91136	98387	98387
45	Input Shaft & Helical Gear	1	111384	-	-
46	Helical Gear	1		98389	98389
47	Power Divider Cover & Plug Assy	1	113602	-	-
	(Cover 111300) Includes Items 51,52				
	Power Divider Cover (Cover 111375-NSS) Includes 39-40, 43	1	-	111368	111368
48	Carrier Cover Cap Screw				
	Medium	4	90069	-	-
	Long	4	12063	-	-
	12Pt		81855	-	-
	Medium	1	-	90069	90069
	Long	1	-	9309	9309
49	Lockwashers	9	90417	90417	90417
50	Dowel Pin	2	7641	7641	7841
51	Pipe Plug	2	90325	-	-
52	Expansion Plug	1	9797	-	-
53	Lockout Cover Plate	1	111673	-	-
54	Cap Screw	2	20807	-	-
55	Lockwashers	2	90415	-	-
56	Pump Cover Plate	1	111674	-	-
57	Cap Screw	4	79363	-	-
58	Lockwashers	4	90419	-	-
59	Input Shaft **(Note 4)**	1	-	98393	98393

Note 4: 98393 Being Replaced By 129315 Input Shaft w/(Metric Thread), 126155 Nut (Metric), 126242 Washer

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Item No.	Part Name	Qty. per Axle	190S4 220S4	230S4 260S4	300S4 350s4
60	Bearing Spacer	1	-	39483	39483
61	Input Bearing Cover Shim .003"	AR	45498	78918	78918
	.005"		70709	78919	78919
	.010"		45499	78920	78920
	.020"		85406		
62	Input Bearing Cover, Cup & Seal Assy	1	110808	98382	98382
	Cover (NSS) Includes Item 43 (Outer)		110807	98380	98380
63	Cap Screw	5	113324	113324	113324
64	Lockwashers		-	-	-
65	Oil Seal	1	119429	119430	119430
66	Input Yoke	1	See OEM Catalog		
67	Flat Washer **(See Note 4 Page 7)**	1	85404	79699	79699
68	Input Shaft Nut - English Threads **(See Note 4 Page 7)**	1	95207	95209	95209
69	Bearing Cup	1	111295	10737	10737
70	Bearing Cone	1	111296	111374	111374
71	Helical Gear	1	119895	111376	111376
72	Front Output Shaft	1	119894	111359	111359
73	Lockup Clutch (45480 Replaced By 128016)	1	128016	128016	128016
74	Bearing Cone	1	111308	91136	91136
75	Bearing Cup	1	14024	90951	90951
76	Bearing Spacer	1	30453	-	-
77	Output Cage Shim .003"	AR	111301	111362	111362
	.005"		111302	111363	111363
	.010"		111303	111364	111384
	.020"		111304	111365	111365
	.030"		111305	111366	111366
78	Front Output Cage Cup & Seal Assy	1	111307	111369	111369
	Includes Items 75,81 - Cage (NSS)		111306	111367	111367
79	Cap Screw	4	90069	90069	90069
80	Lockwashers	4	90417	90417	90417
81	Oil Seal	1	119431	119429	119429
82	Front Output Yoke	1	See OEM Catalog		
83	Washer	1	56864	-	-
84	Nut - English Threads	1	95206	95262	95262
85	Lockup Shift Unit	1	113581	113584	113584
86	Cap Screw	2	21385	111313	111313
87	Lockwashers	2	90415	90415	90415
88	Shift Fork & Push Rod	1	111372	111372	111372
89	Axle Housing Cover Assy (Includes Item 90)	1	120918	-	80269
	Cover (NSS)	1	77751	-	-
	Gasket Compound	AR	107276	107276	107276
90	Temperature Plug	1	90898		
	Magnetic Filler Plug	1	75130	75130	75130

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Pinion Bearing Spacers

Models:
190S4, 220S4 Single Reduction
190C4, 220C4 Single Reduction w/CTD
190T4, 220T4 Dual Range
190P4, 220P4 Planetary Double Reduction

.472"-110736	.481"-110745	.490"-110772	.499"-110794
.473"-110737	.482"-110746	.491"-110776	.500"-110795
.474"-110738	.483"-110748	.492"-110780	.501"-110796
.475"-110739	.484"-110750	.493"-110784	.502"-110798
.476"-110740	.485"-110752	.494"-110786	.503"-110799
.477"-110741	.486"-110756	.495"-110788	.504"-110800
.478"-110742	.487"-110760	.496"-110790	.505"-110801
.479"-110743	.488"-110764	.497"-110792	.506"-110802
.480"-110744	.489"-110768	.498"-110793	.507"-110603

Models :
230S4, 260S4, 300S4, 350S4 Single Reduction and Single Reduction w/CTD
230C4, 260C4, 300C4, 350C4 Single Reduction w/CTD
230T4, 260T4, 300T4, 350T4 Dual Range
230P4, 260P4, 300P4, 350P4 Planetary Double Reduction

.167"-91679	.176"-91688	.185"-91702	.194"-91719
.168"-91680	.177"-91689	.186"-91704	.195"-91720
.169"-91681	.178"-91690	.187"-91706	.196"-91721
.170"-91682	.179"-91691	.188"-91708	.197"-91722
.171"-91683	.180"-91692	.189"-91710	.198"-91723
.172"-91684	.181"-91694	.190"-91712	.199"-91724
.173"-91685	.182"-91696	.191"-91714	.200"-91725
.174"-91686	.183"-91698	.192"-91716	.201"-91726
.175"-91687	.184"-91700	.193"-91718	.202"-91727

Speedometer Adapters

Eaton Part No.	OEM Part No.		Notes
38108	GMC	2307815	
38111	IHC	127280-R91	
38114	Chevrolet	1569161	NLA
49156	Ford	B9TZ17294A	Repl By 83337
50790	Ford	B9TF17294E	
53405	IHC	127279-R92	
64056	GMC	3854530	NLA
69833	GMC	3885433	
74081	GMC	3904678	
87898	Chevrolet	3730434	NLA
83337	Ford	DOHZ17294A	

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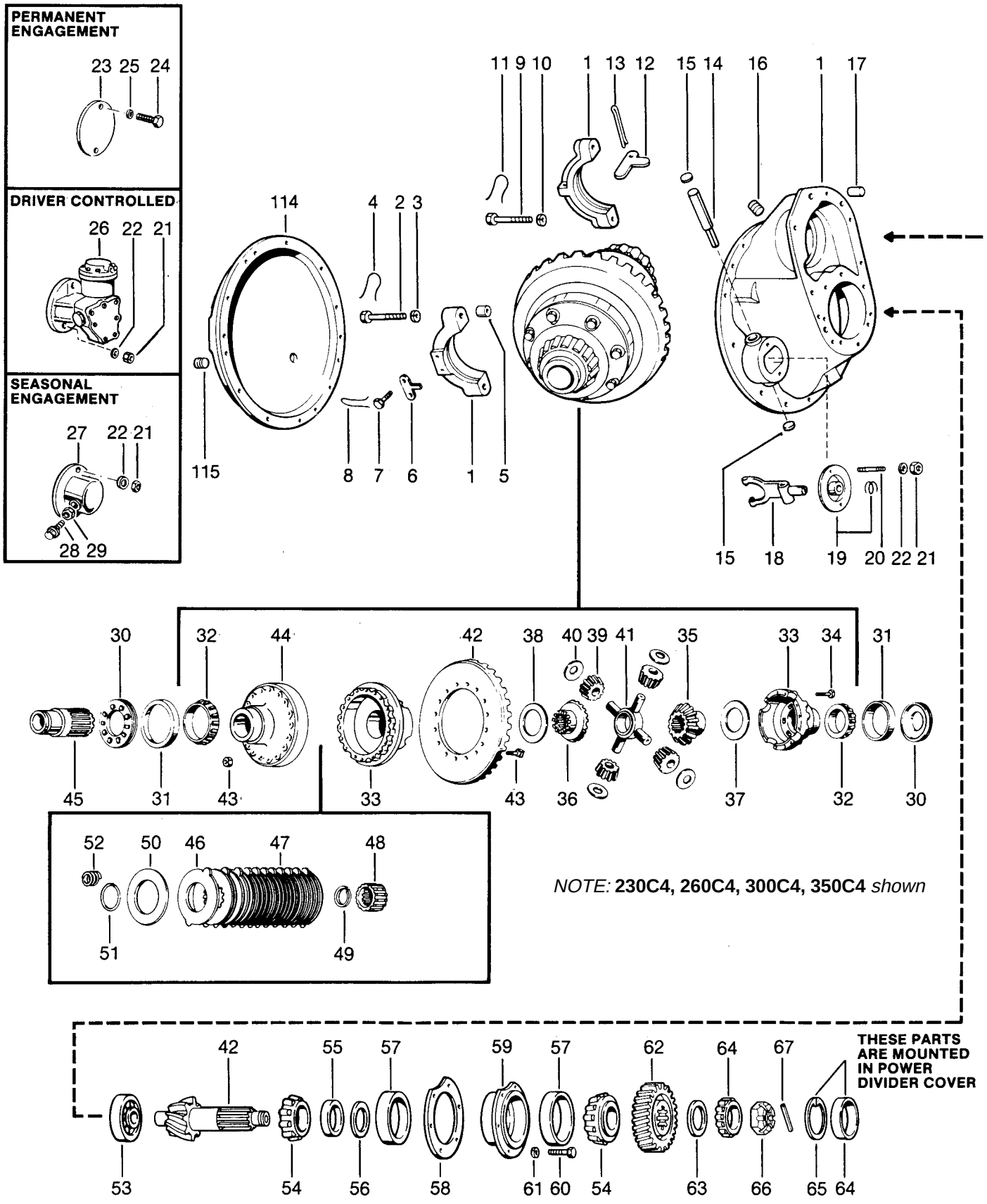
4x4 Rear Axle Differential Carrier
Single Reduction w/Controlled Traction Differential
Models 190C4, 220C4, 230C4, 260C4, 300C4, 350C4



NOTE: **230C4, 260C4, 300C4, 350C4** *shown*

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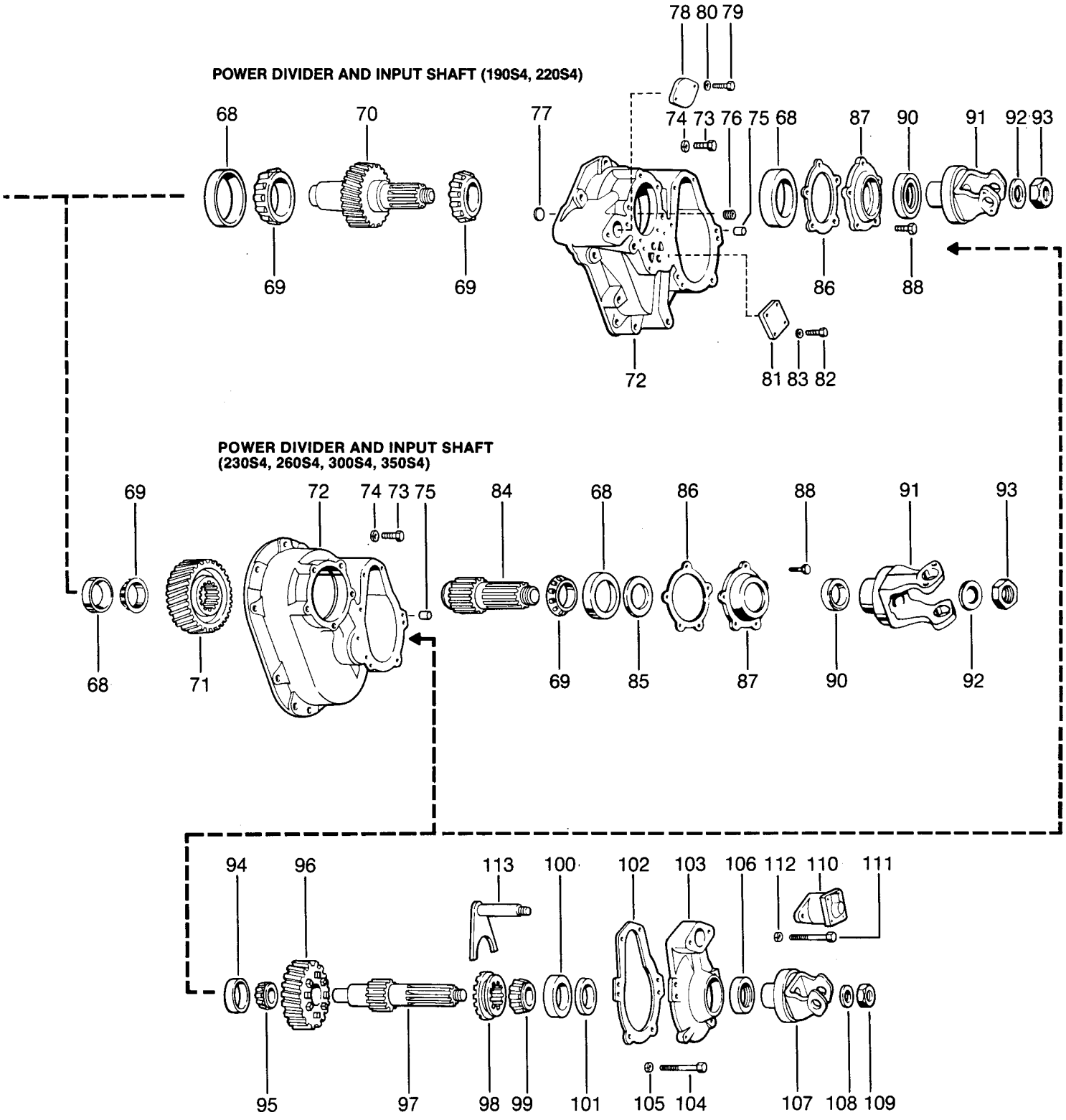

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Item No.	Part Name	Qty. per Axle	190C4 220C4	230C4 260C4	300C4 350C4
1	Diff. Carrier& Bearing Cap Assy Carrier (NSS) 190 & 220 Includes 2-5, 14-17, 19-24, 116 230, 260, 200, 250 Includes 2-5, 14-17, 19-21, 116	1	115825 110816	106710 110500	106710 110500
2	Cap Screw	4	32732	32732	32732
3	Flat Washer	4	32912	32912	32912
4	Lockwire	4	90538	12563	12563
5	Dowel Bushing	2	32730	32730	32730
6	Adjuster Lock (RH) (S.E. & D.C. only) Adjuster Lock (RH) (P.E. only)	1 1	111120 45448	14275 14275	45448 45448
7	Cap Screw	2	12562	12562	12562
8	Lockwire	2	12563	12563	12563
9	Cap Screw - See Item #2				
10	Flat Washer - See Item #3				
11	Lockwire - See Item #4				
12	Adjuster Lock (LH)	1	13377	45448	14275
13	Cotter Pin	1	90873	90876	90876
14	Shift Fork Shaft (S.E. & D.C. only)	1	113801	113801	113801
15	Expansion Plug (Upper) Expansion Plug (Lower)	1 1	30703 9797	30703 9797	30703 9797
16	Filler Plug	1	90325	90325	90325
17	Dowel Pin	1	7641	7841	7641
18	Shift Fork (S.E. & D.C. only)	1	32613	84508	84508
19	Shift Fork Seal (S.E. & D.C. only)	1	119855	119855	119855
20	Shift Unit Stud (S.E. & D.C. only)	7	119863	119863	119863
21	Stud Nut (S.E. & D.C. only)	2	119857	63028	63028
22	Stud Washer (S.E. & D.C. only)	2	81518	119857	119857
23	Shift Unit Opening Cover (P.E. only)	1	45521	45521	45521
24	Cap Screw (P.E. only)	2	20807	20807	20807
25	Lockwashers (P.E. only)	2	90415	90415	90415
26	Shift Unit	1	73503	73503	73503
27	Shift Fork Cover Retainer Assy (S.E. only)	1	83510	83510	83510
28	Adjusting Screw (12 Pt) (S.E. only)	1	83511	83511	83511
29	Adjusting Screw Jam Nut (S.E. only)	1	59600	59600	59600
30	Bearing Adjuster (RH) Bearing Adjuster (LH)	1 1	110243 111022	21637 82451	21637 82451
31	Bearing Cup (RH) Bearing Cup (LH)	1 1	9803 27816	15092 21632	15092 21632
32	Bearing Cone (RH) Bearing Cone (LH)	1 1	27813 27817	27876 102660	27876 102660
	WHEEL DIFF. CASE KIT Includes Items 33.34		118289	98872	98872
33	Diff. Case (Plain Half) NSS Gear Support Case (Flange Half) -NSS	1 1	210017 111029	86777 86786	86777 86786
34	Cap Screw	12	96271	88503	88503
	WHEEL DIFF. SIDE GEAR & PINION KIT Includes Items 35-41 190C4 - 39 Inv Spline — 230C4 - 36 Inv Spline 220C4 - 41 Inv Spline — 300C4 - 39 Inv Spline	1	- 118624 118287	114475	107457
	WHEEL DIFF. KIT LESS SIDE GEAR Includes Item 37-41	1	118748	-	-
35	Side Gear (RH) 190C4 - 39 Inv Spline — 230C4 - 36 Inv Spline 220C4 - 41 Inv Spline — 300C4 - 39 Inv Spline	1	- 110525 110527	93401	86779

D.C. - Driver Controlled
S.E. - Seasonal Engagement
P.E. - Permanent Engagement

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Item No.	Part Name	Qty. per Axle	190C4 220C4	230C4 260C4	300C4 350C4
36	Side Curvic Clutch Gear (LH) 190C4 220C4	1	 111018 111019	110632	94378
37	Side Gear Thrust Washer	1	27827	27274	27274
38	Side Curvic Gear Thrust Washer	1	111030	82442	82442
39	Side Pinion	4	104139	86780	86780
40	Side Pinion Thrust Washer	4	27810	86781	86781
41	Spider	1	38289	86778	86778
42	RING GEAR & DRIVE PINION SET (Matched Set) See separate listing on page 21				
	Nut & Bolt Kit		118290	115583	115583
43	Ring Gear Fasteners (Bolt) (Nut)	8 8	111024 84497	(16) 82454 (16) 60600	(16) 82454 (16) 60600
44	Gear Support Case Cover	1	111026	103190	103190
45	Sliding Clutch (S.E. & D.C. only)	1	111021	86576	86576
	FRICTION PLATE & DRIVE KIT Includes Items 46-52	1	-	82439	82439
	FRICTION PLATE KIT Includes Items 46-47	1	118291	84827	84827
46	Friction Plate (O.D. Splined) Friction Plate (tanged)	 11	111027 -	 82446	 82446
47	Friction Plate (I.D. Splined) Friction Plate (splined)	7 10	111028 -	 82445	 82445
48	Friction Plate Driver (P.E. only) Friction Plate Driver (S.E. & D.C. only)	1 1	111116 -	83565 82449	83565 82449
49	Driver Snap Ring (P/N 111115 is P.E. only)	1	111115	82444	82444
50	Pressure Plate	1	111025	82447	82447
51	Pressure Plate Snap Ring	1	-	82621	82621
52	Compression Spring	10 12	111023 .	- 82448	- 82448
53	Pilot Bearing	1	129175	126187	126187
54	Bearing Cone (Inner) Bearing Cone (Outer)	1 1	85439 110846	14218 14218	14218 14218
55	Spacer Washer	1	-	78904	78904
56	Bearing Spacer See separate listing on page 9	AR			
57	Bearing Cup (Inner) Bearing Cup (Outer)	1 1	14217 35502	14217 14217	14217 14217
58	Bearing Cage Shim .003" .005" .010" .020" .030"	AR	45461 62829 45462 62830 45463	45461 62829 45462 62830 45463	45461 62829 45462 62830 45463
59	Bearing Cage & Cup Assy Includes Item 57 (Cage 78932) Ratios 3.55-3.70 (Cage 110730) Ratios all others (Cage 110732)	 1 1 1	 - 110731 110733	 78914 - -	 78914 - -
60	Cap Screw	6	62158	62158	62158
61	Lockwashers	6	37207	37207	37207
62	Helical Gear	1	111310	98390	98390
63	Helical Gear Spacer Ratios 3.55-3.70 Ratios all others	 1 1	 111316 111311	 - -	 - -
64	Outer Pinion Support Bearing & Race	1	111314	78916	78916
65	Snap Ring	1	111315	78937	78937
66	Slotted Nut	1	118854	119353	119353

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Item No.	Part Name	Qty. per Axle	190C4 220C4	230C4 260C4	300C4 350C4
67	Roll Pin	1	118855	118807	118807
68	Input Shaft Bearing Cup (Outer) Input Shaft Bearing Cup (Inner)	1 1	98388 90951	98385 98388	98385 98388
69	Input Shaft Bearing Cone (Outer) Input Shaft Bearing Cone (Inner)	1 1	91136 91136	98384 98387	98384 98387
70	Input Shaft & Helical Gear	1	111384	—	—
71	Helical Gear	1	—	98389	98389
72	Power Divider Cover & Plug Assy (Cover 111300) Includes Items 76,77 Power Divider Cover Assy (Cover 111375) Includes Items 84, 65, 68, 69, 83, 88, 94)	1 1	113602 —	— 111368	— 111368
73	Carrier Cover Cap Screw Medium Long 12Pt Medium Long	 4 4 1 1	 90069 12063 81855 — —	 — — 90069 9309	 — — 90069 9309
74	Lockwashers	9	90417	90417	90417
75	Dowel Pin	2	7641	7641	7641
76	Pipe Plug	1	90325		
77	Expansion Plug	1	9797	—	—
78	Lockout Cover Plate	1	111673	—	—
79	Cap Screw	2	20807	—	—
80	Lockwashers	2	90415	—	—
81	Pump Cover Plate	1	111674	—	—
82	Cap Screw	4	79363	—	—
83	Lockwashers	4	90419	—	—
84	Input Shaft (English Thread) **(Note 1)**	1	—	98393	98393
85	Bearing Spacer	1	—	39483	39483
86	Input Bearing Cover Shim .003" .005" .010" .020"	AR	45498 70709 45499 85406	78918 78919 78920	78918 78919 78920
87	Input Bearing Cover, Cup & Seal Assy Cover (NSS) Includes Item 68 (Outer)	1	110808 110806	98382 98380	98382 98380
88	Cap Screw	5	113324	113324	113324
89	Lockwashers		—	—	—
90	Oil Seal	1	119429	119430	119430
91	Input Yoke	1	See OEM Catalog		
92	Flat Washer **(Note 1)**	1	85404	79699	79699
93	Input Shaft Nut **(Note 1)**	1	95207	95209	95209
94	Bearing Cup	1	111295	10737	10737
95	Bearing Cone	1	111296	111374	111374
96	Helical Gear	1	119895*	111376	111376
97	Front Output Shaft	1	119894*	111359	111359
98	Lockup Clutch - (45480 Replaced by 128016)	1	128016	128016	128016
99	Bearing Cone	1	111308	91136	91136
100	Bearing Cup	1	14024	90951	90951
101	Bearing Spacer	1	30453	—	—
102	Output Cage Shim .003" .005" .010" .020" .030"	AR	111301 111302 111303 111304 111305	111362 111363 111364 111365 111366	111362 111363 111364 111365 111366

* Identify part numbers on old parts. If part number of helical gear or front output shaft is 111297, 111298 respectively, replace both with new part numbers shown.

Note 1: 98393 is being replaced by 129315 Input Shaft w/(Metric Thread), 126155 Nut (Metric), 126242 Washer.

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Item No.	Part Name	Qty. per Axle	190C4 220C4	230C4 260C4	300C4 350C4
103	Front Output Cage, Cup & Seal Assy Includes Items 100, 106 - Cage (NSS)	1	111307 111306	111369 111367	111369 111367
104	Cap Screw	4	90069	90069	90069
105	Lockwashers	4	90417	90417	90417
106	Oil Seal	1	119431	119429	119429
107	Front Output Yoke	1	See OEM Catalog		
108	Washer	1	56864	-	-
109	Nut	1	95206	95262	95262
110	Lockup Shift Unit (Includes Items 110-113)	1	113581	113584	113584
111	Cap Screw	2	21385	111313	111313
112	Lockwashers	2	90415	90415	90415
113	Shift Fork & Push Rod	1	111372	111372	111372
114	Axle Housing Cover Assy (Includes Item 115) Cover (NSS)	1 1	120918 77751	- -	- -
115	Temperature Plug	1	90898	-	-
116	Gasket Compound	AR	107276	107276	107276

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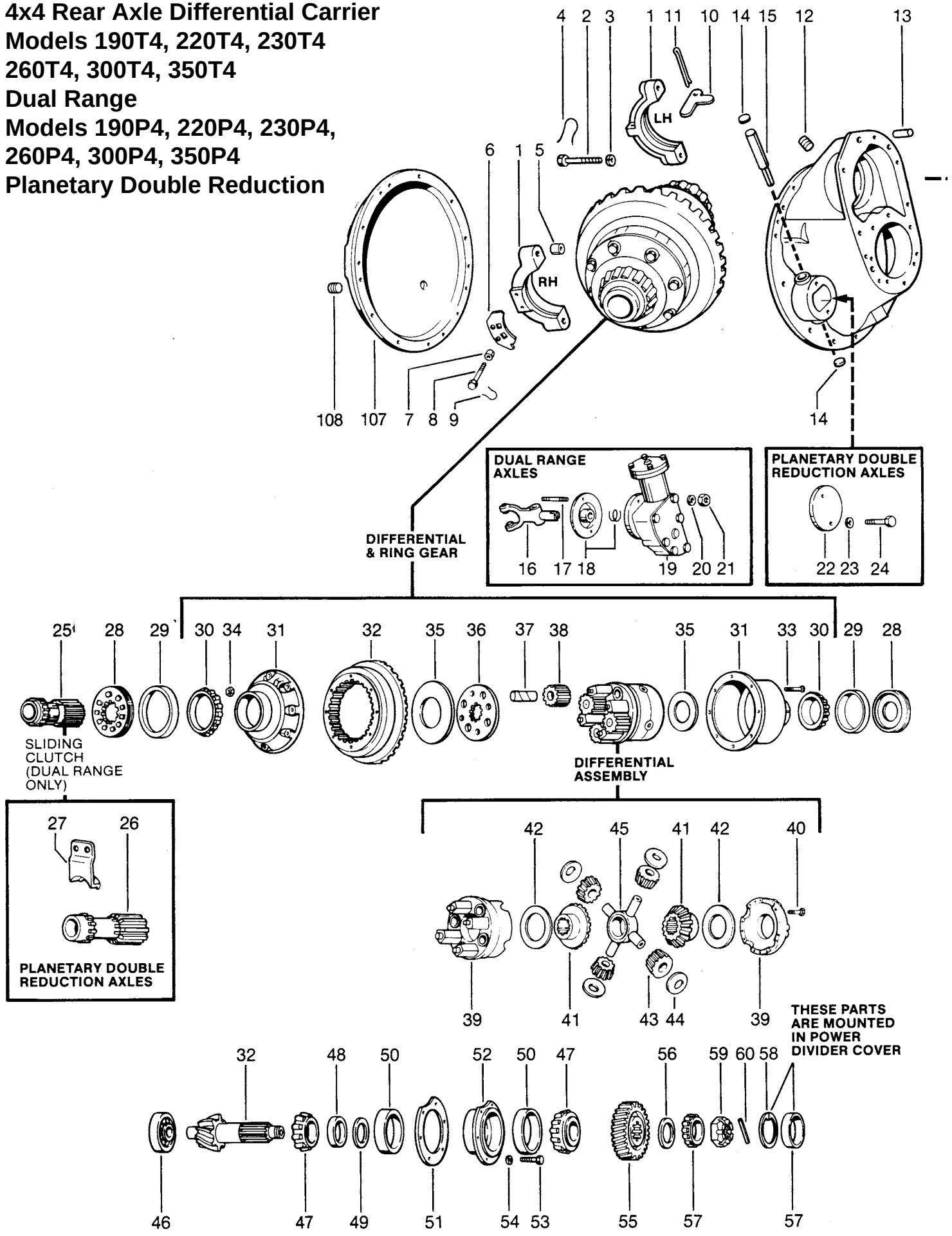
4x4 Rear Axle Differential Carrier
Models 190T4, 220T4, 230T4
260T4, 300T4, 350T4
Dual Range
Models 190P4, 220P4, 230P4,
260P4, 300P4, 350P4
Planetary Double Reduction



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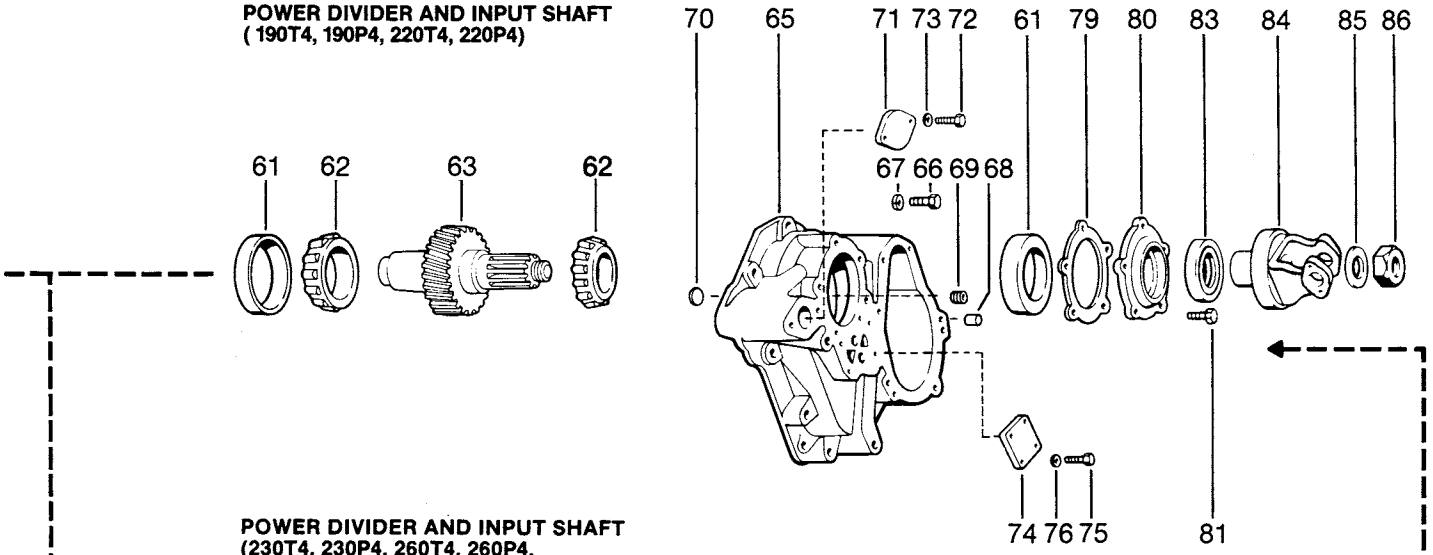
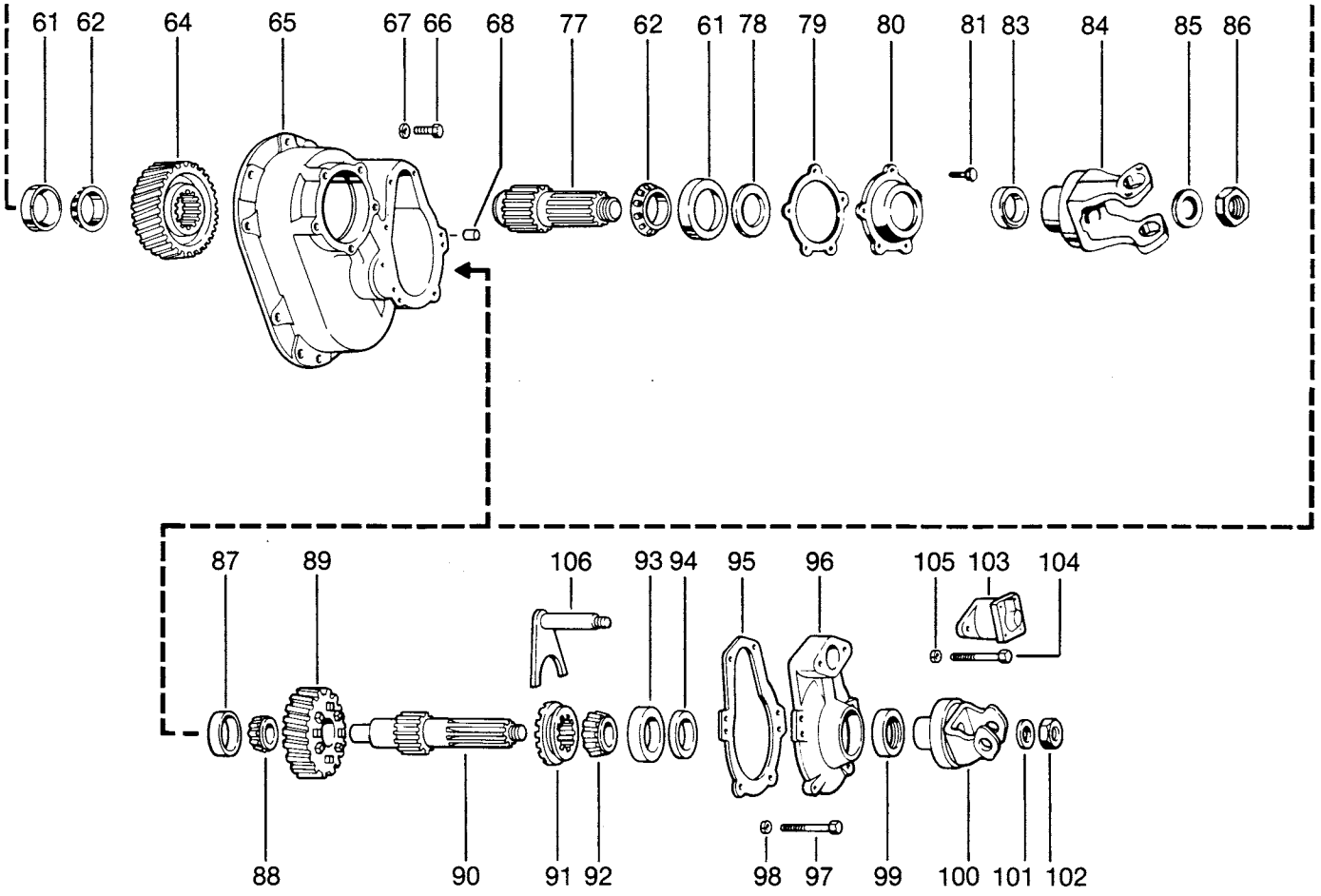
POWER DIVIDER AND INPUT SHAFT
(190T4, 190P4, 220T4, 220P4)



POWER DIVIDER AND INPUT SHAFT
(230T4, 230P4, 260T4, 260P4,
300T4, 300P4, 350T4, 350P4)



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Item No.	Part Name	Qty. per Axle	190T4 190P4 220T4 220P4	230T4 230P4 260T4 260P4	300T4 300P4 350T4 350P4
1	Diff. Carrier& Bearing Cap Assy Carrier (NSS) Includes 2-5, 7, 12-15, 17, 18, 20-22, 109	1	115825 110816	106710 110500	106710 110500
2	Cap Screw	4	32732	32732	32732
3	Flat Washer	4	32912	32912	32912
4	Lockwire	4	90538	12563	12563
5	Dowel Bushing	2	32730	32730	32730
6	Adjuster Lock (RH)	1	37745	78926	78926
7	Dowel Bushing (RH)	2	37746	37746	37746
8	Cap Screw (RH) (Dual Range) Cap Screw (RH) (PDR)	2 2	37747 37747	37747 12562	37747 12562
9	Lockwire (RH)	2	12563	12563	12563
10	Adjuster Lock (LH)	1	13377	14275	14275
11	Cotter Pin (LH)	1	90873	90876	90876
12	Filler Plug	1	90325	90325	90325
13	Dowel Pin	2	7841	7641	7641
14	Expansion Plug (Upper) Expansion Plug (Lower)	1 1	30703 9797	30703 9797	30703 9797
15	Shift Fork Shaft	1	113801	113801	113801
16	Shift Fork Assy	1	32613	32679	84508
17	Mounting Stud	2	119863	119863	119863
18	Shift Fork Seal & Spring Assy (Dual Range)	1	119855	119855	119855
19	Shift Unit (Dual Range) See Page 22 & 23	1			
20	Lockwashers (Dual Range)	2	119857	119857	119857
21	Stud Nut (Dual Range)	2	63028	63028	63028
22	Shift Unit Opening Cover (PDR)	1	45521	45521	45521
23	Lockwashers (PDR)	2	90415	90415	90415
24	Cap Screw (PDR)	2	20807	20807	20807
25	Sliding Clutch (Dual Range)	1	113596	113593	83406
26	Sun Gear (PDR)	1	113598	113595	113595
27	Sun Gear Retainer (PDR)	1	43178	43178	43178
28	Bearing Adjuster (RH) Bearing Adjuster (LH)	1 1	56932 110243	21637 126305	21637 126305
29	Bearing Cup (RH) Bearing Cup (LH)	1 1	27816 9803	15092 21632	15092 21632
30	Bearing Cone (RH) Bearing Cone (LH)	1 1	27817 27813	21635 102660	27876 102660
31	Gear Support Case (RH) Gear Support Case (LH)	1 1	27838 110148	21619 126301	108138 126301
32	RING GEAR & DRIVE PINION SET (Matched Parts) See separate listing on page 21	1			
	RING GEAR BOLT & NUT KIT Includes Items 33-34	1	87955	87955	87955
33	Bolt	8	44358	44358	44358
34	Nut	8	60599	60599	60599
35	Support Case Thrust Washer (RH) Support Case Thrust Washer (LH)	1 1	43270 27827	18198 43271	83726 43271
36	High Speed Clutch Plate	1	56931	56928	56928
37	Idler Pinion Pin	4	27861	27953	108144
38	Idler Pinion	4	27835	27952	27952
	WHEEL DIFF. CASE KIT Includes Items 39-40	1	101878	98584	109270
39	Diff. Case (Clutch Plate Side) (NSS) Identify by casting number Diff. Case (Plain Half) (NSS)	1 1	98182 96278 96279	98183 96280 96281	108146 108139 108140

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Item No.	Part Name	Qty. per Axle	190T4 190P4 220T4 220P4	230T4 230P4 260T4 260P4	300T4 300P4 350T4 350P4
40	Cap Screw	8	-	-	-
		4	-	96285	96285
		8	-	96284	96284
	WHEEL DIFF. SIDE GEAR & PINION KIT				
	Includes Items 41-45	1	-	114474	109267
	190T4, P4 - 39 Inv Spline, 230T4, P4 - 36 Inv Spline	1	114469	-	-
	220T4, P4 - 41 Inv Spline **(Note 1),** 300T4, P4 - 39 Inv Spline	1	114470	-	-
41	Side Gear	2	-	110528	108143
	190T4, P4 - 39 Inv Spline, 230T4, P4 - 36 Inv Spline	2	110525	-	-
	220T4, P4 - 41 Inv Spline **(Note 1),** 300T4, P4 - 39 Inv Spline	2	-	-	-
42	Side Gear Thrust Washer	2	27827	18198	83726
43	Side Pinion	4	104139	96900	129420
44	Side Gear Thrust Washer	4	27810	18199	108145
45	Spider	1	38289	107371	108141
46	Pilot Bearing	1	129175	126187	126187
47	Bearing Cone (Inner)	1	85439	14218	14218
	Bearing Cone (Outer)	1	110846	14218	14218
48	Spacer Washer	1	-	78904	78904
49	Bearing Spacer See separate listing on page 9	AR			
50	Bearing Cup (Inner)	1	14217	14217	14217
	Bearing Cup (Outer)	1	35502	14217	14217
51	Bearing Cage Shim .003"	AR	45461	45461	45461
	.005"		62829	62829	62829
	.010"		45462	45462	45462
	.020"		62830	62830	62830
	.030"		45463	45463	45463
52	Bearing Cage & Cup Assy				
	Includes Item 50 (Cage 78932)	1		78914	78914
	Ratios 3.55-3.70 (Cage 110730)	1	110731	-	-
	Ratios all others (Cage 110732)	1	110733	-	-
53	Cap Screw	6	62158	62158	62158
54	Lockwashers	6	37207	37207	37207
55	Helical Gear	1	111310	98390	98390
56	Helical Gear Spacer				
	Ratios 3.55-3.70	1	111316	-	-
	Ratios all others	1	111311	-	-
57	Outer Pinion Support Bearing & Race	1	111314	78916	78916
58	Snap Ring	1	111315	78937	78937
59	Slotted Nut	1	118854	119353	119353
60	Roll Pin	1	118855	118807	118807
61	Input Shaft Bearing Cup (Outer)	1	98388	98385	98385
	Input Shaft Bearing Cup (Inner)	1	90951	98388	98388
62	Input Shaft Bearing Cone (Outer)	1	91136	98384	98384
	Input Shaft Bearing Cone (Inner)	1	91136	98387	98387
63	Input Shaft & Helical Gear	1	111384	-	-
64	Helical Gear	1	-	98389	98389
65	Power Divider Cover & Plug Assy	1	113602	-	-
	(Cover 11300) Includes Items 69, 70				
	Power Divider Cover	1	-	111368	111368
66	Carrier Cover Cap Screw				
	Medium	4	90069	-	-
	Long	4	12063	-	-
	12 Pt	8	81855	-	-
	Medium	8	-	90069	90169
	Long	1	-	9309	9309

Note 1: Complete No-Spin Unit Available Part Number 110830 - 41 Inv Spline

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Item No.	Part Name	Qty. per Axle	190T4 190P4 220T4 220P4	230T4 230P4 260T4 260P4	300T4 300P4 350T4 350P4
67	Lockwashers	9	90417	90417	90417
68	Dowel Pin	2	7641	7641	7641
69	Pipe Plus	2	90325	-	
70	Expansion Plug	1	9797	-	-
71	Lockout Cover Plate	1	111673	-	-
72	Cap Screw	2	20807	-	-
73	Lockwashers	2	90415	-	-
74	Pump Cover Plate	1	111674	-	.
75	Cap Screw	4	79363	-	-
76	Lockwashers	4	90419	-	-
77	Input Shaft - **(See Note 1 Page 14)**	1	-	98393	98393
78	Bearing Spacer	1	-	39483	39483
79	Input Bearing Cover Shim .003" .005" .010" .020"	AR	45498 70709 45499 85406	78918 78919 78920	78918 78919 78920
80	Input Bearing Cover, Cup & Seal Assy Cover (NSS) Includes Item 61 (Outer), 83	1	110808 110806	98382 98380	98382 98380
81	Cap Screw	5	113324	113324	113324
82	Lockwashers		-	-	-
83	Oil Seal	1	119429	119430	119430
84	Input Yoke	1	See OEM Catalog		
85	Flat Washer **(See Note 1 Page 14)**	1	85404	79699	79699
86	Input Shaft Nut - English Threads **(See Note 1 Page 14)**	1	95207	95209	95209
87	Bearing Cup	1	111295	10737	10737
88	Bearing Cone	1	111296	111374	111374
89	Helical Gear	1	119895*	111376	111376
90	Front Output Shaft	1	119894*	111359	111359
91	Lockup Clutch - (45480 Replaced by 128016)	1	128016	128016	128016
92	Bearing Cone	1	111308	91136	91136
93	Bearing Cup	1	14024	90951	90951
94	Bearing Spacer	1	30453	-	-
95	Output Cage Shim .003" .005" .010" .020" .030"	AR	111301 111302 111303 111304 111305	111362 111363 111364 111365 111366	111362 111363 111364 111365 111366
96	Front Output Cage, Cup & Seal Assy Includes Items 93,99- Case (NSS)	1	111307 111306	111369 111367	111369 111367
97	Cap Screw	4	90069	90069	90069
98	Lockwasher	4	90417	90417	90417
99	Oil Seal	1	119431	119429	119429
100	Front Output Yoke	1	See OEM Catalog		
101	Washer	1	56864	-	-
102	Nut - English Threads	1	95206	95262	95262
103	Lockup Shift Unit (includes Items 104-106) Planetary Models Lockup Shift Unit (includes Items 104-106) 2-Speed Models	1 1	113581 113582	113584 113585	113584 113585
104	Cap Screw	2	21385	111313	90031
105	Lockwashers	2	90415	90415	90415
106	Shift Fork & Push Rod	1	111372	111372	111372
107	Axle Housing Cover Assy Includes Item 108 Cover (NSS)	1 1	120918 77751	- -	80269 -
108	Temperature Plug	1	90898	-	-
109	Gasket Compound	AR	107276	107276	107276

*Identify part numbers on old parts. If part number of helical gear or front output shaft is 111297, 111298 respectively, replace both with new part numbers shown.

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Ring Gear & Drive Pinion Set

***Axle Models 190S4, 220S4 (Single Reduction)**

Ratio	Part No. Gear Set	Pinion (NSS)	Ring Gear (NSS)
3.55	*113155	111271(11)	109867(39)
3.70	*113156	111272(10)	88000(37)
3.90	*113157	111273(10)	99742(39)
4.11	*113158	111274 (9)	86356(37)
4.33	*113159	111275 (9)	86358(39)
4.56	*113160	111276 (9)	86360(41)
4.88	*113161	111277 (8)	86362(39)
5.29	*113162	111278 (7)	85364(37)
5.57	*113163	111279 (7)	86366(39)
6.14	*113164	111280 (7)	86377(43)
6.50	*113165	111281 (6)	86378(39)
7.17	*113166	111282 (6)	86379(43)

***Axle Models 230S4, 260S4, 300S4, 350S4 (Single Reduction)**

Ratio	Part No. Gear Set	Pinion (NSS)	Ring Gear (NSS)
3.70	*98162	78831(10)	98160(37)
4.11	*98164	78833 (9)	94381(37)
4.33	*95578	78835 (9)	78856(39)
4.56	95579 Note 1	78837 (9)	78858(41)
4.88	*95580	78839 (8)	78860(39)
5.43	*95581	78841 (7)	78862(38)
6.17	*95582	78843 (6)	78864(37)

***Axle Models 190C4, 220C4**
(Single Reduction w/Controlled Traction Differential)

Ratio	Part No. Gear Set	Pinion (NSS)	Ring Gear (NSS)
3.55	*118492	111271(11)	111049(39)
3.70	*118493	111272(10)	111050(37)
3.90	*118494	111273(10)	111051(39)
4.11	*118495	111274 (9)	111052(37)
4.33	*118496	111275 (9)	111053(39)
4.56	*118497	111276 (9)	111054(41)
4.88	*118498	111277 (8)	111055(39)
5.29	*118499	111278 (7)	111056(37)
5.57	*118500	111279 (7)	111057(39)
6.14	*118501	111280 (7)	111058(43)
6.50	*118502	111281 (6)	111059(39)
7.17	*119503	111282 (6)	111060(43)

***Axle Models 230C4, 260C4, 300C4, 350C4**
(Single Reduction w/Controlled Traction Differential)

Ratio	Part No. Gear Set	Pinion (NSS)	Ring Gear (NSS)
3.70	*95576	78831(10)	78852(37)
4.11	*95577	78833 (9)	78854(37)
4.33	*95578	78835 (9)	78856(39)
4.56	95579 **Note 1**	78837 (9)	78858(41)
4.88	*95580	78839 (8)	78860(39)
5.43	*95581	78841 (7)	78862(38)
6.17	*95582	78843 (6)	78864(37)

***Axle Models**
190T4, 220T4 (Dual Range)
190P4, 220P4 (Planetary Double Reduction)

Ratio	Part No. Gear Set	Pinion (NSS)	Ring Gear (NSS)
3.55/4.83	*113179	111271(11)	109865(39)
3.70/5.05	*113180	111272(10)	53864(37)
3.90/5.32	*113181	111273(10)	113154(39)
4.11/5.61	*113182	111274 (9)	85390(37)
4.33/5.91	*113183	111275 (9)	85392(39j
4.56/6.21	*113184	111276 (9)	85394(41)
4.88/6.65	*113185	111277 (8)	85396(39)
5.29/7.21	*113186	111278 (7)	85398(37)
5.57/7.60	*113187	111279 (7)	85400(39)
6.14/8.38	*113188	111280 (7)	75170(43)
6.50/8.86	*113189	111281 (6)	75172(39)
7.17/9.78	*113190	111282 (6)	75174(43)

***Axle Models**
230T4, 260T4, 300T4, 350T4 (Dual Range)
230P4, 260P4, 300P4, 350P4 (Planetary Double Reduction)

Ratio	Part No. Gear Set	Pinion (NSS)	Ring Gear (NSS)
3.70/5.04	*95583	78831(10)	78830(37)
4.11/5.60	*95584	78833 (9)	78832(37)
4.33/5.90	*95585	78835 (9)	78834(39)
4.56/6.20	*95586	78837 (9)	78836(41)
4.88/6.64	95587 **Note 1**	78839 (8)	78838(39)
5.43/7.39	*95588	78841 (7)	78840(38)
6.17/8.40	*95589	78843 (6)	78842(37)

*Ring Gear & Pinion Kits Have Been Obsoleted With No Replacements.
Reference Bulletin AXIB-9507. Contact Your OEM For Model Replacement.

Note 1: Part Available As Of 8-1-96.

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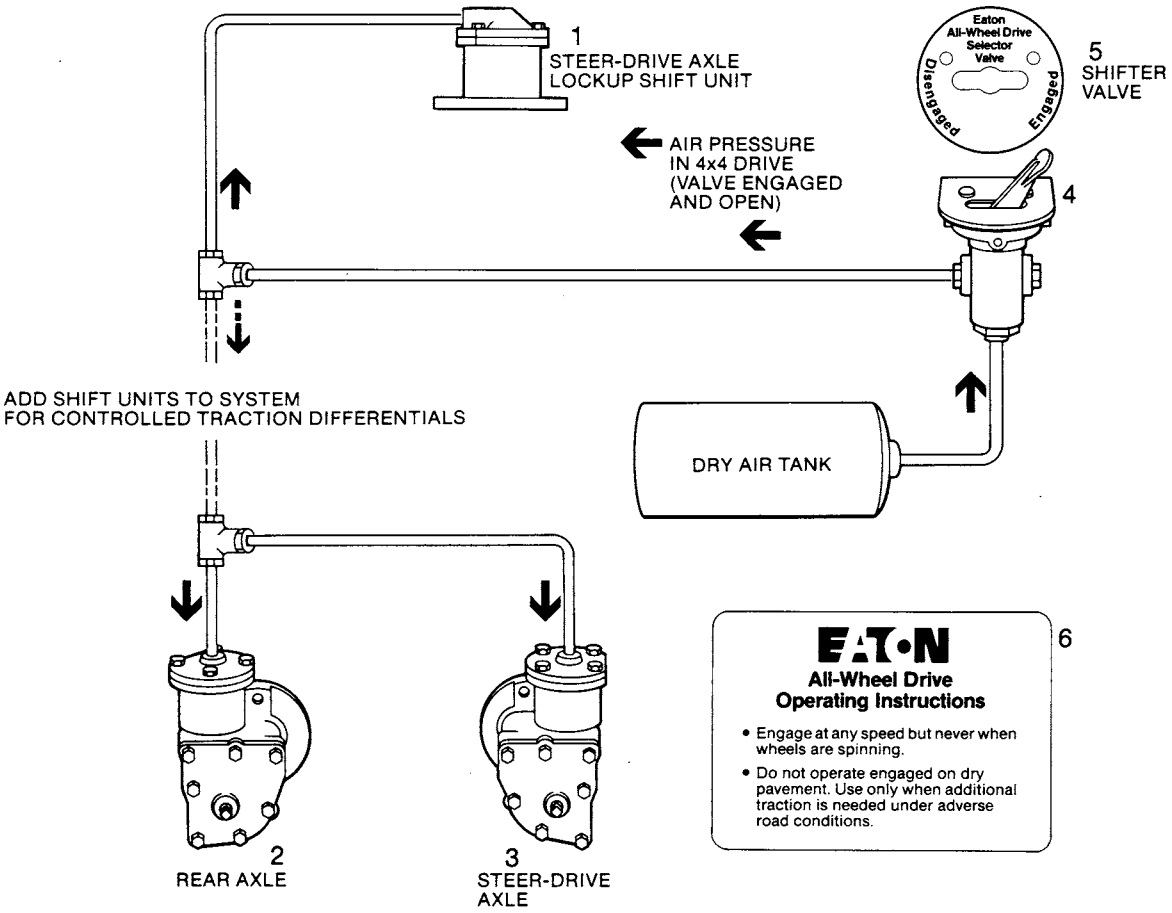
4x4 All Wheel Drive Shift Systems
Single Speed Axles with Standard or Controlled Traction Differential
Double Reduction Axles with Standard Differential



CONTROLLED TRACTION DIFFERENTIAL SHIFT UNITS

Item No.	Part Name	Qty. per Axle	Part Number	Remarks
1	Steer/Drive Lockup Shift Unit			
	Models 190, 220 series	1	113581	See page 26
	Models 230, 260, 300, 350 series	1	113584	See page 26
2	Rear Axle Shift Unit (CTD)	1	73507	See page 24
3	Steer/Drive Axle Shift Unit (CTD)	1	73503	See page 24
4	Shifter Valve	1	84678	
5	Shifter Valve Label	1	113573	
	Shifter Valve Elbow Connector	1	74267	not illustrated
6	Operating Instructions Label	1	113572	

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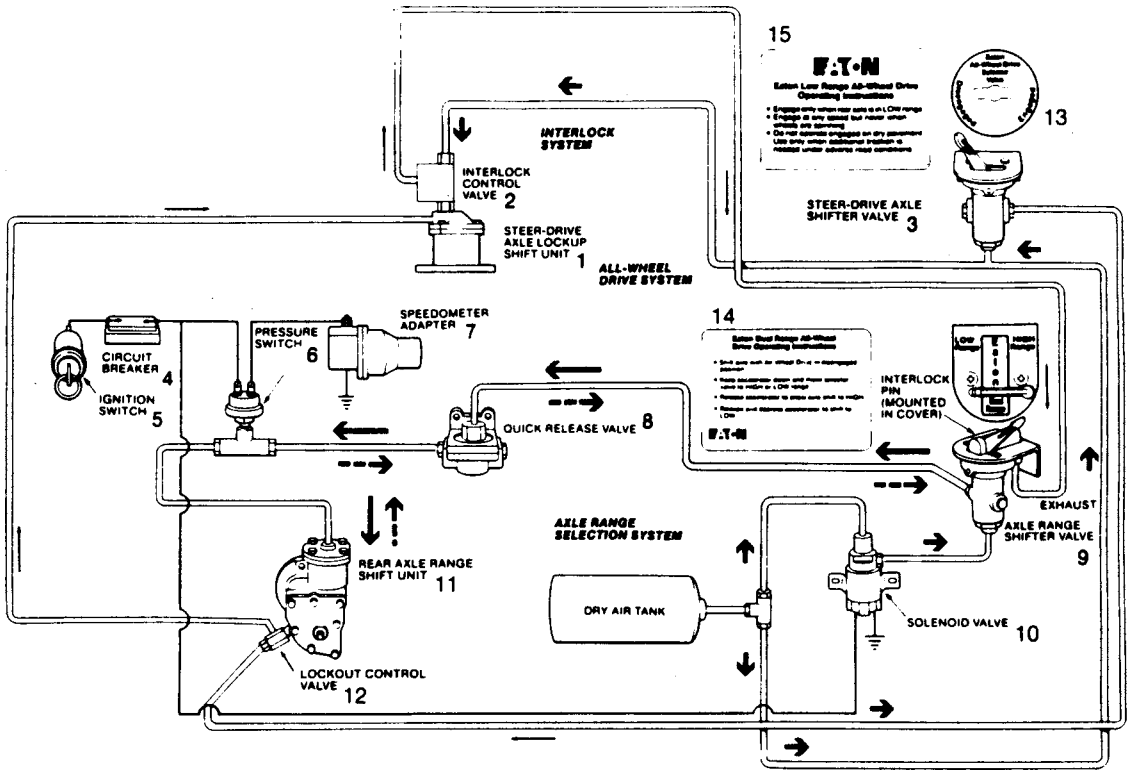
4x4 All Wheel Drive Shift Systems
Single Speed Steer/Drive Axle with Dual Range Rear Axle
(Straight Air with Axle Range Interlock)



Item No.	Part Name	Qty. per Axle	Part Number	Remarks
1	Steer/Drive Lockup Shift Unit			Includes Item 2
	Models 190, 220 series	1	113581	See page 26
	Models 230, 260, 300, 350 series	1	113584	See page 26
2	Interlock Control Valve	1	113534	
3	Steer/Drive Axle Lockup Shifter Valve	1	84678	
4	Circuit Breaker	1	33662	
5	Ignition Switch	1		See OEM Catalog
6	Pressure Switch	1	56071	
7	Speedometer Adapter	1		See page 9
8	Quick Release Valve	1	66468	
9	Axle Range Shifter Valve		113544	Under-dash mount
		1	113662	In-dash mount
		1	119527	Gear shift mount
10	Solenoid Valve	1	46805	
11	Rear Axle Shift Unit	1	73503	See page 24
12	Lockup Control Valve	1	66483	Used In Old Assy 73505
13	Shifter Valve Label	1	113573	
	Shifter Valve Elbow Connector	1	74267	not illustrated
14	Operating Instruction Label	1	113571	
15	Operating Instruction Label	1	113572	

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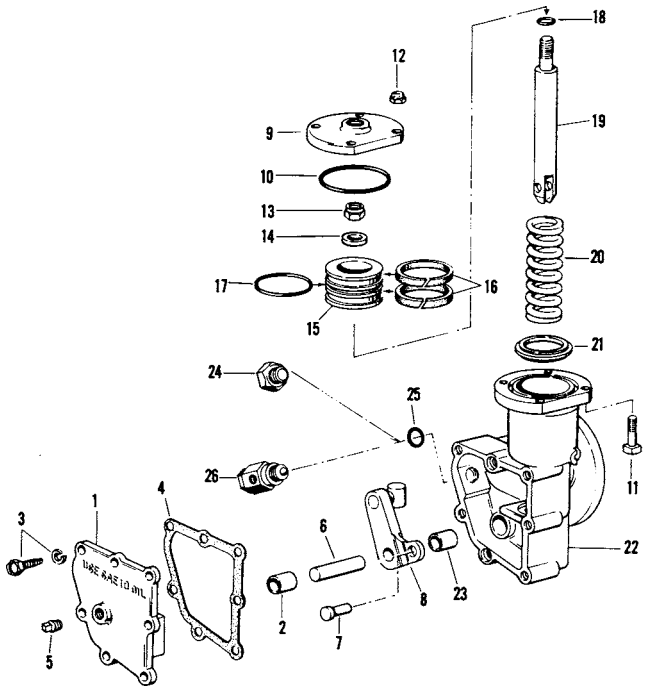
Shift Unit



Item No.	Part Name	Qty. per Axle	Unit 73503	Unit 73507
	Piston Air Shift Assy Electric Over Air or Straight Air) Includes Items 1-25	1	73503	73507
1	Cover Assy (Includes Item 2)	1	73486	73487
2	Cover Bearing	1	73481	73481
3	Self-tapping Screw & Washer Assy	7	88053	88053
4	Cover Gasket	1	73488	73488
5	Cover Plug	1	28325	28325
6	Actuating Lever Pin	1	73456	73456
7	Clevis Pin	1	73498	73498
8	Actuating Lever, Pin & Block Assy	1	129025	129029
9	Shift Housing Cover	1	73490	73490
10	Seal Ring	1	73492	73492
11	Cover Bolt	4	73491	73491
12	Locknut	4	47641	47641
13	Locknut	1	73496	73496
14	Washer	1	111406	111406
15	Piston	1	73493	73493
16	Felt Piston Oiler (Strip)	2	96916	96916
17	Piston “O” Ring	1	32832	32832
18	Grommet	1	32826	32826
19	Push Rod	1	73497	73497
20	Compression Spring	1	73494	73494
21	Piston Stop	1	73495	73495
22	Housing Assy (Includes Items 3 & 23)	1	82428	82429
23	Housing Bearing	1	73481	73481
24	Cap Screw	1	58309	—
25	“O” Ring	1	56659	56659
26	Lockout Control Valve (Used On Old 73505 Units) p/n 66483	1	—	—

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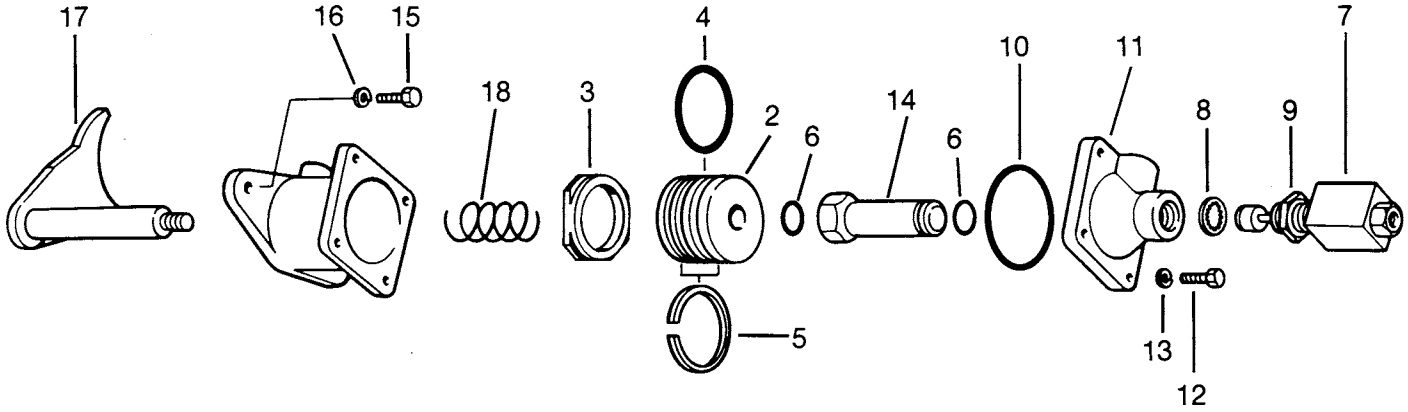
Lockup Shift Unit



Item No.	Part Name	Qty. per Axle	190T4 220T4	230T4 260T4 300T4 350T4
	Air-Operated Lockup Shift Unit Assy Includes Items 1-20	1	113582	113585
	LOCKUP BODY KIT Includes Items 1-11	1	118357*	118409
1	Shift Cylinder Body	1	32828	32828
2	Shift Cylinder Piston	1	32834	32834
3	Piston Stop	1	102616	·
4	Piston Grommet	1	32832	32832
5	Piston Felt Oiler	2	96916	96916
6	Push-Rod Grommet	2	32826	32826
7	Valve Assembly (Includes 8-9)	1	113534	113534
8	Star Washer - NSS	1		
9	Nut - NSS	1		
10	Cover Grommet	1	60817	60817
11	Body Cover	1	113529	113529
12	Cover Cap Screw	4	79363	79363
13	Lockwashers	4	90419	90419
14	Hex Nut Piston	1	113530	113530
15	Body Cap Screw	2	21385	111313
16	Lockwashers	2	90415	90415
17	Shift Fork Assy	1	111372	111372
18	Compression Spring		31038	31038
19	Gasket Compound	AR	107276	107276
20	Control Valve Protector (Not Illustrated)	1	119878	119878

*Includes 113578 Check Valve

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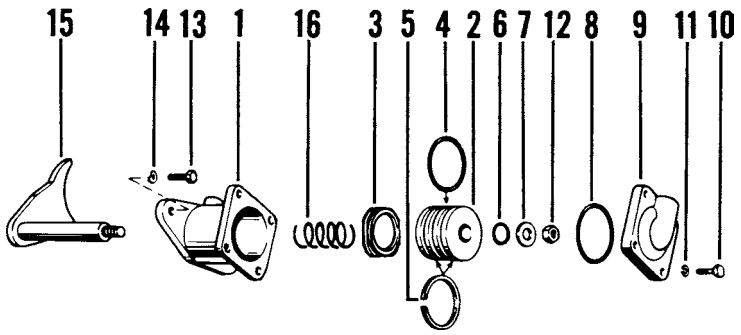
Lockup Shift Unit



Item No.	Part Name	Qty. per Axle	190S4 190P4 220S4 220P4	230S4 230P4 260S4 260P4 300S4 300P4 350S4 350P4
	Air-Operated Lockup Shift Unit Assy Includes Items 1-16	1	*113581	113584
	LOCKUP BODY KIT (Includes Items 1-9)	1	104599	34779
1	Shift Cylinder Body	1	32828	32828
2	Shift Cylinder Piston	1	32834	32834
3	Piston Stop	1	102616	-
4	Piston Grommet	1	32832	32832
5	Piston Felt Oiler	2	96916	96916
6	Push-Rod Grommet	1	32826	32826
7	Push-Rod Flat Washer	1	111406	111406
8	Cover Grommet	1	60817	60817
9	Body Cover	1	32831	32831
10	Cover Cap Screw	4	79363	79363
11	Lockwashers	4	90419	90419
12	Push Rod Nut	1	1006779	1006779
13	Body Cap Screw	2	21385	111313
14	Lockwashers	2	90415	90415
15	Shift Fork Assy	1	111372	111372
16	Compression Spring	1	31038	31038
	Gasket Compound	AR	107276	107276

*NLA as of 7/24/95.

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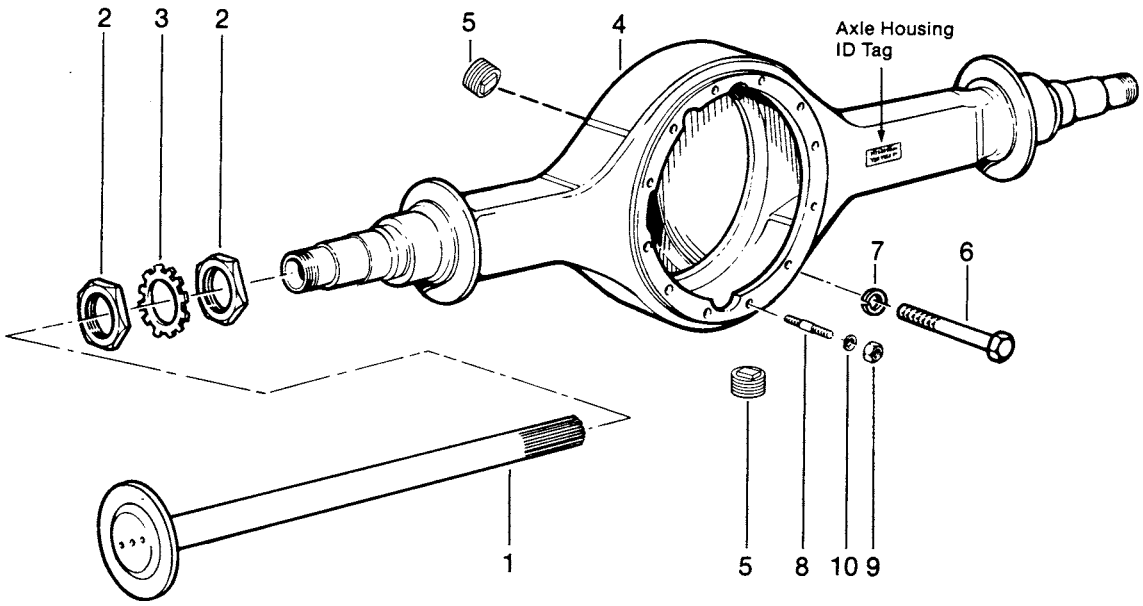
Axle Housing and Axle Shafts
Models 190C4, 190S4, 190T4, 190P4



Item No.	Part Name	Qty. per Axle	Eaton Part No.
1	Axle Shaft (39 spline, 1-13/16" shaft dia.)	2	See OEM Catalog
2	Hub Bearing Adjusting Nut (Inner) (Outer)	2 2	19186 19186
3	Bearing Adjuster Lockwashers	2	30714
4	Axle Housing Assy	1	See OEM Catalog
5	Magnetic Drain Plug Magnetic Filler Plug	 1	54254 75130
6	Diff. Carrier Cap Screw	1	38589
7	Lockwashers	1	90422
8	Stud	11	36435
9	Nut	11	90208
10	Lockwashers	11	90422

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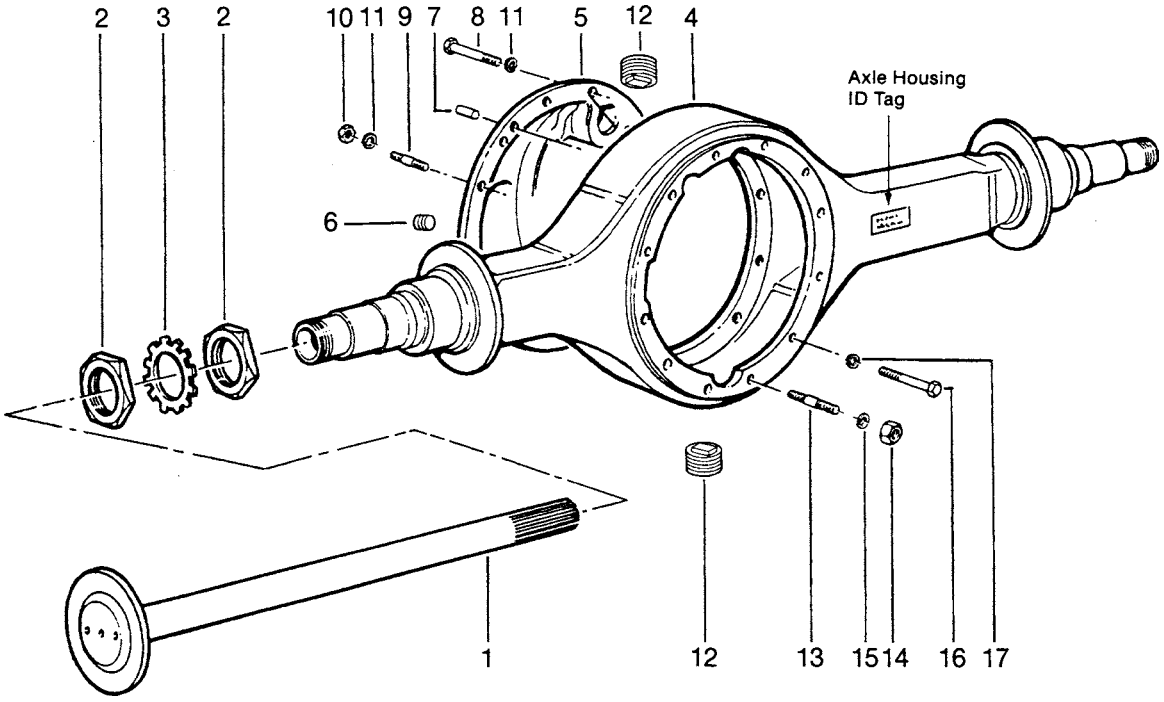
Axle Housing and Axle Shafts
Models 220C4, 220S4, 220T4, 220P4



Item No.	Part Name	Qty. per Axle	Eaton Part No.
1	Axle Shaft (41 spline, 1-57/64" shaft dia.)	2	See OEM Catalog
2	Hub Bearing Adjusting Nut (Inner) (Outer)	2 2	119882 119881
3	Bearing Adjuster Lockwashers	2	119883
4	Axle Housing Assy	1	See OEM Catalog
5	Housing Cover Assembly (Includes Item 6)	1	120918
6	Temperature Plug	1	90898
7	Cover Locating Dowel	1	7641
8	Cover Cap Screw	1	21385
9	Cover Stud	1	47500
10	Nut	11	42364
11	Lockwashers	12	90415
12	Magnetic Drain Plug Magnetic Filler Plug	1 1	54254 75130
	DIFF CARRIER ATTACHING PARTS		
13	Stud	11	36435
14	Nut	11	90208
15	Lockwashers	11	90422
16	Diff. Carrier Cap Screw	1	38589
17	Lockwashers	1	90422

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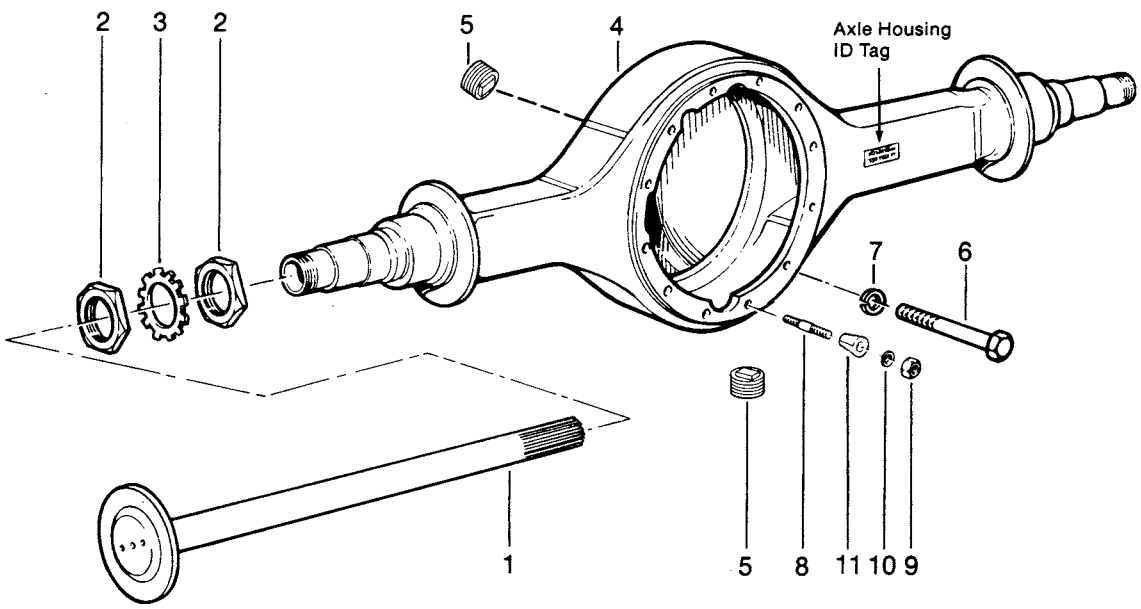
Axle Housing and Axle Shafts
Models 230C4, 230S4, 230T4, 230P4
Models 260C4, 260S4, 260T4, 260P4



Item No.	Part Name	Qty. per Axle	Eaton Part No.
1	Axle Shaft (36 spline, 2-1/16" shaft dia.) Length: 40-7/8"	2	See OEM Catalog
2	Hub Bearing Adjuster Nut Inner Outer	2 2	119882 119881
3	Bearing Adjuster Lockwashers	2	119883
4	Axle Housing Assy	1	See OEM Catalog
5	Magnetic Drain Plug Magnetic Filler Plug	1 1	54254 75130
6	Cap Screw	2	99708
7	Lockwashers	2	11167
8	Diff. Carrier Stud	10	36435
9	Diff. Carrier Nut	10	90208
10	Lockwashers	10	90422
11	Tapered Dowel	4	83481

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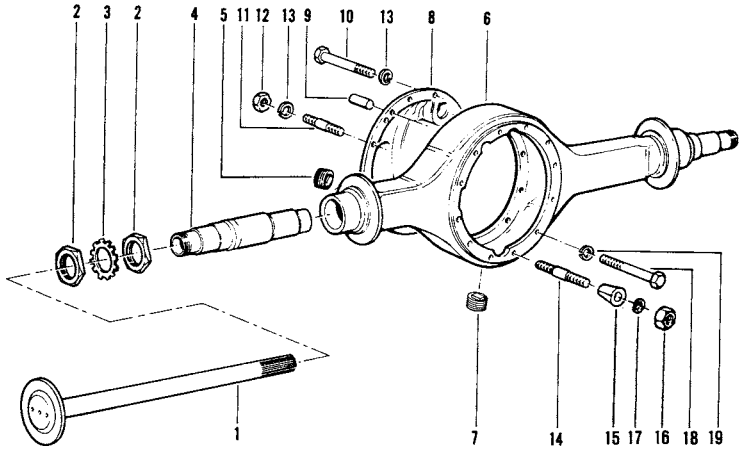
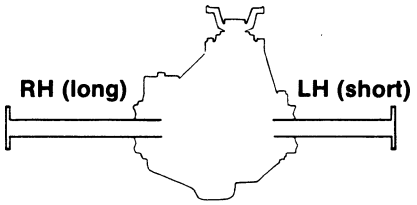
Axle Housing and Axle Shafts
Models 300C4, 300S4, 300T4, 300P4
Models 350C4, 350S4, 350T4, 350P4



Item No.	Part Name	Qty. per Axle	Eaton Part No.
1	Axle Shaft (39 spline, 2-1/4" shaft dia.)	2	See chart below
2	Hub Bearing Adjuster Nut	4	11249
3	Bearing Adjuster Lockwashers	2	11245
4	Axle Housing Spindle Tube	2	82620
5	Filler Plug	1	75130
6	Axle Housing	1	See OEM Catalog
7	Magnetic Drain Plug	1	54254
8	Housing Cover	1	80269
9	Locating Dowel	1	7641
10	Cover Cap Screw	1	85454
11	Cover Stud	11	85453
12	Nut	11	25348
13	Lockwashers	12	90414
14	DIFF CARRIER ATTACHING PARTS Stud	10	36435
15	Tapered Dowel	4	83481
16	Nut	10	90208
17	Lockwashers	10	90422
18	Cap Screw (12 pt.)	2	99708
19	Lockwashers	2	11167

The 35327 axle uses unequal length axle shafts. Differential offset in the housing requires that the long axle shaft be used in the short-arm side of the housing. The short axle shaft is used in the *long-arm* side of the housing.



Track Width	Flange-to-Flange Measurement
72"	52.125"
75"	55.125"
80"	60.125"
85"	65.125"

Track width can be determined by measuring the distance between the brake flanges.

Track	RH (long)	LH (Short)
72	108549 (40-1/4”)	108553 (41-1/4”) 108550 (41-1/4”)
75	108551 (41-3/4”)	108554 (42-3/4”) 108552 (43-3/4”)
80	108555 (44-11/32”)	108556 (45-11/32”)
85	108557 (46-3/4”)	108558 (47-3/4”)

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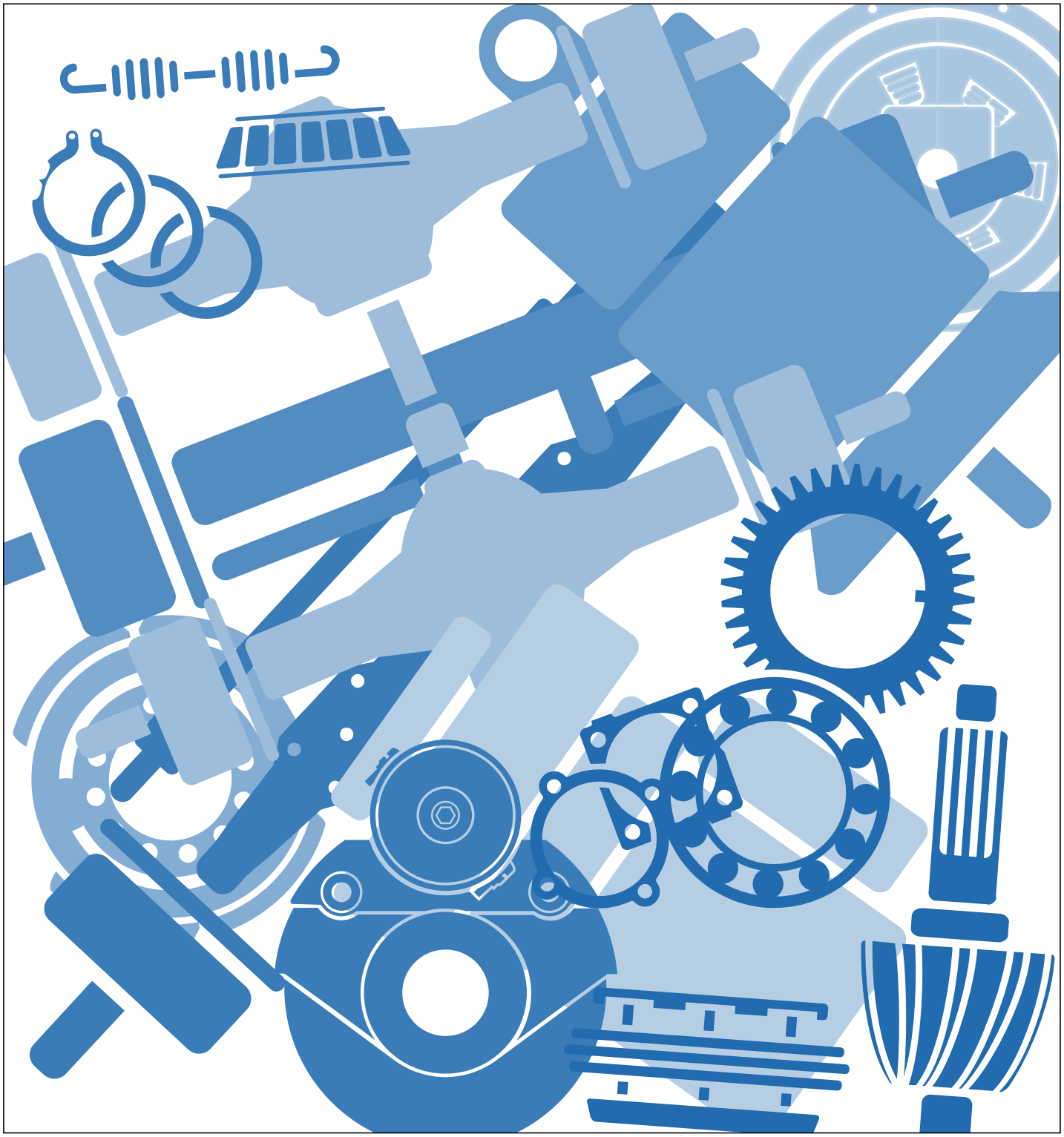

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