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 Truck Components Operations – North America
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Topic:

Streamlining and modernizing service gear and pinion product offering.

Bulletin Type:

- Service Procedures
- Parts Information
- Warranty Info.

Product Line:

- Axle
- Brake
- Clutch
- Transmission
- AfterMarket
- Speciality

Effective August 1, 1995, Eaton will initiate a program to streamline and modernize the service gear and pinion product offering. This program is intended to replace or eliminate all gearsets with “square” pinion splines and improve compatibility with current production gearing. The benefits of the program are:

- Continued service for Eaton axles. With the addition of the appropriate end yoke, virtually all single and tandem rear axles produced since the late 1970’s as well as tandem axles produced after 1980 will remain serviceable at the component level indefinitely. Eaton Axle products also remain serviceable at the unit level through “hybrid” offerings of the Carrier Exchange Program. These are brand-new Eaton carrier assemblies equipped with side gears that adapt to them to older style axle shaft configurations.
- Improved product performance. The gearing eliminated by the program often reflects design criteria no longer used in production axles. Newer style gearing meets the most current standard for durability and quiet operation. Involute pinion splines offer better performance under impact loads. Pinion nuts reflect the best available clamping technology.
- Simplified inventory management: The new gearset product line is highly standardized, drastically simplifying the task of stocking the product needed to service a wide variety of Eaton products. In some cases, a single new part number replaces as many as three older part numbers.

The following tables provide a crossover from older gear and pinion kit to current replacement. In most cases, the substitute gearsets fit directly into the older carrier and require no additional parts other than a new end yoke to return the unit to service. Where necessary, new kits have been developed containing other parts needed to adapt newer gearing to older axle models. Gear and pinion kits also contain printed instruction sheets outlining the process.

Installation of new-style gearing in some older carriers also affects standout by as much as 1/2-inch. This may require the user to adjust driveline length prior to reinstallation. Minor variations in final drive ratio may also be required in some cases.

Service Set	Model	Ratio	New Part Number
95528	30DS	7.60	None
95536	34DS	3.70	Carrier Exchange
95537	34DS	4.11	674945
95538	34DS	4.33	Carrier Exchange
95539	34DS	4.56	Carrier Exchange
95540	34DS	4.88	675382
95541	34DS	5.29	674512
95542	34DS	5.57	674974
95543	34DS	6.14	674957
95544	34DS	6.50	Carrier Exchange
95545	34DS	7.17	Carrier Exchange
95546	34DS	7.60	None
95547	DT340	3.70	Carrier Exchange
95548	34DT	4.11	Carrier Exchange
95549	34DT	4.33	Carrier Exchange
95550	34DT	4.56	Carrier Exchange
95551	34DT	4.88	Carrier Exchange
95552	34DT	5.29	Carrier Exchange
95553	34DT	5.57	Carrier Exchange
95554	34DT	6.14	674594
95555	34DT	6.50	674595
95556	34DT	7.17	674596
95557	DS340	3.70	Carrier Exchange
95558	DS340	4.11	674945
95559	DS340	4.33	Carrier Exchange
95560	DS340	4.56	Carrier Exchange
95561	DS340	4.88	675382
95562	DS340	5.29	674512
95563	DS340	5.57	674974
95564	DS340	6.14	674957
95565	DS340	6.50	Carrier Exchange
95566	DS340	7.17	Carrier Exchange
95567	DT340	4.11	Carrier Exchange
95568	DT340	4.33	Carrier Exchange
95569	DT340	4.56	Carrier Exchange
95570	DT340	4.88	Carrier Exchange
95571	DT340	5.29	Carrier Exchange
95572	DT340	5.57	Carrier Exchange
95573	DT340	6.14	674594
95574	DT340	6.50	674595
95575	DT340	7.17	674596
95576 ¹	DS480	3.70	674991
95577 ¹	DS480	4.11	674515
95578 ¹	DS480	4.33	674799
95579 ¹	DS480	4.56	674488
95580 ¹	DS480	4.88	675616
95581 ¹	DS480	5.43	674489
95582 ¹	DS480	6.17	675350
95583 ¹	DT480	3.70	674609
95584 ¹	DT480	4.11	674526
95585 ¹	DT480	4.33	675357

Service Set	Model	Ratio	New Part Number
95586 ¹	DT480	4.56	675279
95587 ¹	DT480	4.88	674529
95588 ¹	DT480	5.43	674530
95589 ¹	DT480	6.17	674912
96620 ²	17100	4.11	674946
96621 ²	17100	4.33	675413
96436	17120	6.50	218807
96619 ²	17100	3.70	Carrier Exchange
96630	17120	7.60	NO REPLACEMENT
96622 ²	17100	4.56	Carrier Exchange
96623 ²	17100	4.88	674980
96624 ²	17100	5.29	674513
96625 ²	17100	5.57	674901
96626	17120	5.57	218805
96627	17120	6.14	218806
96631	17100	3.70	NO REPLACEMENT
96632	17100	4.11	NO REPLACEMENT
96633	17100	4.56	NO REPLACEMENT
96634	17100	4.88	NO REPLACEMENT
96635	17100	5.29	NO REPLACEMENT
96636	17100	5.57	NO REPLACEMENT
96637	17120	6.14	NO REPLACEMENT
96638	17120	6.50	NO REPLACEMENT
96639	17120	7.17	NO REPLACEMENT
96640	17120	7.60	NO REPLACEMENT
96641 ²	RS340	3.70	217998
96642 ²	RS340	4.11	218000
96643 ²	RS340	4.33	218001
96644 ²	RS340	4.56	218002
96645 ²	RS340	4.88	218003
96646 ²	RS340	5.29	218004
96647 ²	RS340	5.57	218005
96648 ²	RS340	6.14	218006
96649 ²	RS340	6.50	218007
96650 ²	RS340	7.17	218008
96750	16244	6.17	NO REPLACEMENT
96751	16244	7.17	NO REPLACEMENT
96792	16244	4.56	NO REPLACEMENT
96797	16244	4.56	121545
96798	16244	4.88	121546
96799	16244	5.57	121548
96802	16244	7.17	121551
96833	17200	3.70	219010
96834	17200	4.11	219847
96835	17200	4.33	219848
96836	17200	4.56	219849
96837	17200	4.88	219850
96838	17200	5.29	219851
96839	17200	5.57	219852
96840	17220	5.57	218984

Note 1: See Carrier Exchange catalog for specific carrier options.

Note 2: 1/4" - 1/2" pinion stand out increase.

Service Set	Model	Ratio	New Part Number
96841	17220	6.14	218985
96843	17220	7.17	218986
96872	19120	3.70	675404
96873	19120	4.11	675396
96874	19120	4.33	674800
96875	19120	4.56	674490
96876	19120	4.88	675320
96877	19120	5.43	674491
96878	19120	6.17	675358
96879	19120	6.67	675410
98099	23420	3.70	123269
98100	23420	4.11	123270
98101	23120	4.33	121889
98102	23120	4.56	121890
98103	23120	4.88	121891
98104	23120	5.43	121892
98105	23120	6.17	121893
98106	23120	6.67	213288
98107	23220	3.70	122362
98108	23221	4.11	122045
98109	23220	4.33	121829
98110	23220	4.56	219892
98111	23220	4.88	121830
98112	23220	5.43	121831
98113	23220	6.17	121832
98114	23220	6.67	121833
98115 ²	RT340	4.11	219012
98116 ²	RT340	4.33	219013
98117 ²	RT340	4.56	219014
98118 ²	RT340	4.88	219015
98119 ²	RT340	5.29	219016
98120 ²	RT340	5.57	219017
98121 ²	RT340	6.14	219018
98122 ²	RT340	6.50	218587
98123 ²	RT340	7.17	219019
98124	16120	4.63	218832
98125	16120	4.88	218833
98126	16120	5.57	218834
98127	16120	6.14	218835
98128	16120	6.50	218836
98129	16120	7.17	218837
98130	16120	7.60	218838
98162 ¹	DS480	3.70	674991
98164 ¹	DS480	4.11	674515
98264	23120	3.70	121887
98265	23120	4.11	121888
98486	23220	4.11	NO REPLACEMENT
98487	23220	4.88	NO REPLACEMENT
98488	23220	5.43	NO REPLACEMENT
98683	23202	4.33	NO REPLACEMENT
98684	23202	4.88	NO REPLACEMENT Total of 25 or less

Service Set	Model	Ratio	New Part Number
99493	1315	6.67	NO REPLACEMENT
98685	23202	5.43	NO REPLACEMENT Total 100 or more
98686	23202	6.14	NO REPLACEMENT PN 100 or more
98687	23202	6.67	NO REPLACEMENT
98739	16220	4.62	674406
98740	16220	4.88	674409
98741	16220	5.57	674412
98742	16220	6.14	674415
98743	16220	6.50	674418
98744	16220	7.17	674630
98754	15200	4.56	121011
98755	15200	5.14	121801
98773	16120	4.63	218839
98774	16120	4.88	218840
98776	16120	6.50	218842
99007	23120	4.11	NO REPLACEMENT
99009	23420	6.17	NO REPLACEMENT
99476	23120	3.70	NO REPLACEMENT
99477	23120	5.43	218440
99489	13600	6.33	NO REPLACEMENT
99492	3910	4.11	NO REPLACEMENT
99494	13800	6.33	NO REPLACEMENT
99495	13802	5.83	674401
99496	13802	6.33	674405
99498	19100	4.11	NO REPLACEMENT
99499	19100	4.33	NO REPLACEMENT
99646 ²	17100	6.14	674911
99662	34DT	6.14	674594
99663	34DT	6.50	674595
99664	34DT	7.17	674596
99666	17200	6.14	219895
99667	17200	6.50	219894
99668	17200	7.17	219896
99745	DS340	3.90	674552
99899	23120	3.90	123334
99930 ²	17100	4.33	675413
99974	19120	6.17	675358
102388	23420	3.90	124564
102706	2590S	5.57	NO REPLACEMENT
102710	2590S	5.57	NO REPLACEMENT
102715	3910	3.09	NO REPLACEMENT
102716	3910	3.70	NO REPLACEMENT
102719	3910	3.70	NO REPLACEMENT
102919	1790	7.67	NO REPLACEMENT
120969	15100	4.56	218805
104228	17200	4.88	NO REPLACEMENT
104477	23420	4.56	NO REPLACEMENT
104520	DS460	3.90	674615
104521	DS460	4.11	Carrier Exchange
104522	DS460	4.33	674799

Note 1: Carrier Exchange part no. depends on Side Gear needed.

Note 2: 1/4" - 1/2" pinion standout increase.

Service Set	Model	Ratio	New Part Number
104523 ¹	DS460	4.63	Carrier Exchange
104524 ¹	DS460	5.29	674616
104525 ¹	DS460	6.17	675350
104526 ¹	DT460	3.90	674828
104527 ¹	DT460	4.11	674526
104528 ¹	DT460	4.33	674527
104529 ¹	DT460	4.63	Carrier Exchange
104530 ¹	DT460	5.29	Carrier Exchange
104531 ¹	DT460	6.17	674912
104532 ^{1,2}	RS440	3.90	674612
104533 ^{1,2}	RS440	4.11	674521
104534 ^{1,2}	RS440	4.33	674522
104535 ^{1,2}	RS440	4.63	674523
104536 ^{1,2}	RS440	5.29	674614
104537 ^{1,2}	RS440	6.17	674709
104538 ^{1,2}	RT440	3.90	674829
104539 ^{1,2}	RT440	4.11	674531
104540 ^{1,2}	RT440	4.33	674532
104541 ^{1,2}	RT440	4.63	674533
104542 ^{1,2}	RT440	5.29	Carrier Exchange
104543 ^{1,2}	RT440	6.17	674908
106624	17200	4.56	NO REPLACEMENT
106625	17200	5.57	NO REPLACEMENT
106971	17220	6.14	NO REPLACEMENT
106972	17220	6.50	NO REPLACEMENT
106973	17220	7.17	NO REPLACEMENT
107480	1350	6.33	NO REPLACEMENT
107537	22120	3.90	219031
107538	22120	4.11	219032
107539	22120	4.33	219033
107540	22120	4.63	219034
107541	22120	4.88	219035
107542	22120	5.29	219036
107543	22120	5.57	219037
107544	22120	6.17	219038
107545	22120	6.50	219039
107546	22120	7.17	219040
107557	22220	3.90	121956
107558	22220	4.11	121957
107559	22220	4.33	121810
107560	22220	4.63	122146
107561	22220	4.88	121811
107562	22220	5.29	121812
107563	22220	5.57	121813
107564	22220	6.17	121814
107565	22220	6.50	121815
107566	22220	7.17	121816
107622	23220	6.17	NO REPLACEMENT
107647	23420	4.11	NO REPLACEMENT
107914	23120	6.67	NO REPLACEMENT
107947	16244	4.11	121957

Service Set	Model	Ratio	New Part Number
108153	23420	4.88	NO REPLACEMENT
108157	23420	4.88	NO REPLACEMENT
110180	15200	5.57	121802
110862	DS340	3.55	Carrier Exchange
110978	22120	5.29	219042
111174	DS341	3.55	217981
111175	DS341	3.70	217982
111176	DS341	3.90	217983
111177	DS341	4.11	217984
111178	DS341	4.33	217985
111179	DS341	4.56	217986
111180	DS341	4.88	217987
111181	DS341	5.29	217988
111182	DS341	5.57	217989
111183	DS341	6.14	217990
111184	DS341	6.50	217991
111185	DS341	7.17	217992
111186	DT341	3.55	218998
111187	DT341	3.70	218999
111188	DT341	4.11	219001
111189	DT341	4.33	219002
111190	DT341	4.56	219003
111191	DT341	4.88	219004
111192	DT341	5.29	219005
111193	DT341	5.57	219006
111194	DT341	6.14	219007
111195	DT341	6.50	218511
111196	DT341	7.17	219008
111352	23120	3.55	122668
111395	16244	6.14	121549
111501 ²	RS341	3.55	217997
111502 ²	RS341	3.70	217998
111503 ²	RS341	3.90	217999
111504 ²	RS341	4.11	218000
111505 ²	RS341	4.33	218001
111506 ²	RS341	4.56	218002
111507 ²	RS341	4.88	218003
111508 ²	RS341	5.29	218004
111509 ²	RS341	5.57	218005
111510 ²	RS341	6.14	218006
111511 ²	RS341	6.50	218007
111512 ²	RS341	7.17	218008
111513 ²	RT341	3.55	219009
111514 ²	RT341	3.70	219010
111515 ²	RT341	4.11	219012
111516 ²	RT341	4.33	219013
111517 ²	RT341	4.56	219014
111518 ²	RT341	4.88	219015
111519 ²	RT341	5.29	219016
111520 ²	RT341	5.57	219017
111521 ²	RT341	6.14	219018

Note 1: Carrier Exchange part no. depends on Side Gear needed.

Note 2: 1/4" - 1/2" pinion stand-out increase.

Service Set	Model	Ratio	New Part Number
111522 ²	RT341	6.50	218587
111523 ²	RT341	7.17	219019
113155	DS386	3.55	NO REPLACEMENT
113156	DS386	3.70	NO REPLACEMENT
113157	DS386	3.90	NO REPLACEMENT
113158	DS386	4.11	NO REPLACEMENT
113159	DS386	4.33	NO REPLACEMENT
113160	DS386	4.56	NO REPLACEMENT
113161	DS386	4.88	NO REPLACEMENT
113162	DS386	5.29	NO REPLACEMENT
113163	DS386	5.57	NO REPLACEMENT
113164	DS386	6.14	NO REPLACEMENT
113165	DS386	6.50	NO REPLACEMENT
113166	DS386	7.17	NO REPLACEMENT
113179	DT346	3.55	NO REPLACEMENT
113180	DT346	3.70	NO REPLACEMENT
113181	DT346	3.90	NO REPLACEMENT
113182	DT346	4.11	NO REPLACEMENT
113183	DT346	4.33	NO REPLACEMENT
113184	DT346	4.56	NO REPLACEMENT
113185	DT346	4.88	NO REPLACEMENT
113186	DT346	5.29	NO REPLACEMENT
113187	DT346	5.57	NO REPLACEMENT
113188	DT346	6.14	NO REPLACEMENT
113189	DT346	6.50	NO REPLACEMENT
113190	DT346	7.17	NO REPLACEMENT
113450	15200	5.86	121803
113451	15200	6.29	121804
113455	16244	6.57	121550
113466	17120	6.57	218007
113467	17220	6.57	218638
113526	RT341	3.90	219011
113528	DT341	3.90	219000
113567	23220	6.17	121832
113813	17200	4.11	NO REPLACEMENT
118056 ²	RC341	5.57	218984
118055 ²	RC341	5.29	218983
118054 ²	RC341	4.88	218982
118053 ²	RC341	4.56	218981
118052 ²	RC341	4.33	218980
118051 ²	RC341	4.11	218979
118050 ²	RC341	3.90	218978
118035	DC341	3.55	218964
118036	DC341	3.70	218965
118037	DC341	3.90	218966
118038	DC341	4.11	218967
118039	DC341	4.33	218968
118040	DC341	4.56	218969
118041	DC341	4.88	218970
118042	DC341	5.29	218971
118043	DC341	5.57	218972

Service Set	Model	Ratio	New Part Number
118044	DC341	6.14	218973
118045	DC341	6.50	218637
118046	DC341	7.17	218974
118049 ²	RC341	3.70	218977
118057 ²	RC341	6.14	218985
118058 ²	RC341	6.50	218638
118059 ²	RC341	7.17	218986
118148 ²	RC341	3.55	218976
118151	22420	3.90	219020
118152	22420	4.11	219021
118153	22420	4.33	219022
118154	22420	4.63	219023
118155	22420	4.88	219024
118156	22420	5.29	219025
118157	22420	5.57	219026
118158	22420	6.17	219027
118159	22420	6.50	219028
118160	22420	7.17	219029
118492	DC386	3.55	NO REPLACEMENT
118493	DC386	3.70	NO REPLACEMENT
118494	DC386	3.90	NO REPLACEMENT
118495	DC386	4.11	NO REPLACEMENT
118496	DC386	4.33	NO REPLACEMENT
118497	DC386	4.56	NO REPLACEMENT
118498	DC386	4.88	NO REPLACEMENT
118499	DC386	5.29	NO REPLACEMENT
118500	DC386	5.57	NO REPLACEMENT
118501	DC386	6.14	NO REPLACEMENT
118502	DC386	6.50	NO REPLACEMENT
118503	DC386	7.17	NO REPLACEMENT
118704 ²	17400	3.70	218977
118705 ²	17400	4.11	219853
118706 ²	17400	4.33	219854
118707 ²	17400	4.56	219855
118708 ²	17400	4.88	219856
118709 ²	17400	5.29	219857
118710 ²	17400	5.57	219858
118711	17420	5.57	218984
118712	17420	6.14	218985
118713	17420	6.57	218638
118900	17420	7.17	NO REPLACEMENT
118907	22420	7.17	NO REPLACEMENT
118927	16244	5.29	121547
118975	DS341	5.57	NO REPLACEMENT
118978	RC341	5.57	NO REPLACEMENT
118988	22420	4.88	219030
119239	17120	7.17	218808
119242	17420	7.17	218986
119352	DS480	5.43	674489
119357	23420	5.43	121892
120615	DS341	5.43	NO REPLACEMENT

Note 2: 1/4" - 1/2" pinion standout increase.

Service Set	Model	Ratio	New Part Number
120621	23420	5.43	NO REPLACEMENT
120622	DS480	5.43	NO REPLACEMENT
120648 ¹	DS480	5.43	674489
120761	DS341	3.36	217980
120763	RS341	3.36	217996
120815	RT341	5.29	219016
120955 ²	13100	4.56	219845
120957 ¹	13100	5.83	219859
120958 ¹	13100	6.33	219860
120971	15100	5.83	218806
120973	15100	6.33	218830
120975	15100	6.17	218831
121399	SS381	6.14	NO REPLACEMENT
121961	15200	6.33	211426
121968	22423	6.50	NO REPLACEMENT
122021	23120	3.70	NO REPLACEMENT
122103	DC402	3.36	218963
123229	22120	4.88	219041
123341	16244	6.57	NO REPLACEMENT
127252 ²	RS402	3.36	217996
127253 ²	RS402	3.55	217997
127254 ²	RS402	3.70	217998
127255 ²	RS402	3.90	217999
127256 ²	RS402	4.11	218000
127257 ²	RS402	4.33	218001
127258 ²	RS402	4.56	218002
127259 ²	RS402	4.88	218003
127260 ²	RS402	5.29	218004
127261 ²	RS402	5.57	218005
127262 ²	RS402	6.14	218006
127263 ²	RS402	6.50	218007
127264 ²	RS402	7.17	218008
127265	DS402	3.36	217980
127266	DS402	3.55	217981
127267	DS402	3.70	217982
127268	DS402	3.90	217983
127269	DS402	4.11	217984
127270	DS402	4.33	217985
127271	DS402	4.56	217986
127272	DS402	4.88	217987
127273	DS402	5.29	217988
127274	DS402	5.57	217989
127275	DS402	6.14	217990
127276	DS402	6.50	217991
127277	DS402	7.17	217992
212145	DS402	3.25	217979
212146 ²	RS402	3.25	217995
212879 ²	RC402	6.57	218638
212901	DS402	3.08	217978

Service Set	Model	Ratio	New Part Number
212902 ²	RS402	3.08	217994
213432	DS402	5.29	NO REPLACEMENT
213433	RS402	5.29	NO REPLACEMENT
213704	23120	4.88	NO REPLACEMENT
214889	DT402	4.88	NO REPLACEMENT

Note 1: Carrier Exchange part no. depends on Side Gear needed.

Note 2: 1/4" - 1/2" pinion stand-out increase.

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