

MAKRA

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CROSS REFERENCE
REPLACEMENT

"ATLAS COPCO"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 500	1202 8722 00	DC 3038	4930152112	AS 2391
MS 501	1619 5498 00	DC 3005	4900050141 4900050511	AS 2203
MS 502	1614 4373 00	DC 3015	4900252131	AS 2393
MS 503	1616 4656 00	DC 3027	4900352141	AS 2442
MS 504	1612 3869 00	DC 3001	4900152106	AS 2392
MS 505	1202 6414 00	DC 3032	4900252271	AS 2390
MS 506	1202 7419 00	DC 3037	4930352102	AS 2444
MS 507/P	1614 5329 00 1641 5329 00	DA 1084		AS 2443
MS 508	1613 2433 00	DC 3008	4900050141	AS 2200
MS 509	1616 2836 00	DC 3009	4900050151	AS 2201
MS 510/D	1613 6921 00	DC 3066	4930152201	AS 2471
MS 511/D	1613 6880 00	DC 3065	4930152181	AS 2446
MS 512	2252 6313 00	DC 3022	4900050291	AS 2202
MS 512/1	2252 6313 01	DC 3021	4900050301	
MS 513/D	1614 6423 00	DC 3051	4930552121	AS 2456
MS 571/D	1615 6546 00	DC 3074	4930152211	AS 2445
MS 594/D	1613 7502 00	DC 3077	4930152241	AS 2457
MS 595/D	1613 8007 00	DC 3110	4930252251	AS 2455
MS 600/D	1614 9056 00	DC 3186		
MS 601/D	1615 9436 00	DA 1142		
MS 602/D	1615 7694 00	DA 1122		
MS 610/D	1613 7306 00	DC 3085	4930352103	AS 2444
MS 650/D	1513 0058 00	DB 2135	4900054171	
MS 654/D	1615 5485 00	DC 3082	4930352141	
MS 655/D	1615 6038 00 1615 6088 00	DC 3081		AS 2461
MS 656/D	1613 8397 00	DC 3137	4930152311	AS 2468
MS 657/D	1622 0079 00	DE 4033		
MS 658/D	1613 9014 00	DE 4025		
MS 659/D	1614 9054 00	DC 3185		
MS 660/D	1604 0382 00	DA 1181		AS 2477
MS 751/D	1614 9521 00	DC 3218		
MS 752/D	1613 9840 00	DC 3219		
MS 826/D	1622 0516 00			
MS 651	1619 6248 00	DC 3003	4900152100	AS 2394
MS 762	1202 8459 00	DC 3067-DC 3123	4930152111	
MS 652	1613 3211 00 1613 3217 00	DC 3034	4900050721	
MS 661	1616 5151 00	DC 3027	4900352141	AS 2442

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MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
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MS 111/S		DF 5005	LB 962	
MS 504	2901 0003 00	DC 3001	4900152106	AS 2392
MS 510/D	2901 0004 01	DC 3066	4930152201	AS 2471
MS 505	2901 0061 00	DC 3032	4900252271	AS 2390
MS 610/D	2901 0070 00	DC 3085	4930352103	AS 2444
MS 508	2901 0078 00	DC 3008	4900050141	AS 2200
MS 509	2901 0085 00	DC 3009	4900050151	AS 2201
MS 650/D	2901 0099 00	DB 2135	4900054171	
MS 511/D	2901 0213 00	DC 3065	4930152181	AS 2446
MS 594/D	2901 0343 00	DC 3077	4930152241	AS 2457
MS 595/D	2901 0432 00	DC 3110	4930252251	AS 2455
MS 658/D	2901 0523 00	DE 4025		
MS 656/D	2901 0566 00	DC 3137	4930152311	AS 2468
MS 657/D	2901 0779 00	DE 4033		
MS 752/D	2901 0858 00	DC 3219		
MS 512	2906 0020 00	DC 3022	4900050291	AS 2202
MS 513/D	2906 0098 00	DC 3051	4930552121	AS 2456
MS 600/D	2906 0564 00	DC 3186		
MS 508	2911 0013 00	DC 3008	4900050141	AS 2200
MS 500	2911 0014 00	DC 3038	4930152112	AS 2391
MS 502	2911 0015 00	DC 3015	4900252131	AS 2393
MS 503	2911 0016 00	DC 3027	4900352141	AS 2442
MS 512	2911 0017 00	DC 3022	4900050291	AS 2202
MS 654/D	2911 0018 00	DC 3082	4930352141	
MS 655/D	2911 0019 00	DC 3081		AS 2461
MS 571/D	2911 0028 00	DC 3074	4930152211	AS 2445
MS 602/D	2911 0054 00	DA 1122		
MS 601/D	2911 0068 00	DA 1142		
MS 660/D	2911 0075 00	DA 1181		AS 2477
MS 512	2989 0040 00	DC 3022	4900050291	AS 2202
MS 508	2989 0045 00	DC 3008	4900050141	AS 2200
MS 508	2989 0048 00	DC 3008	4900050141	AS 2200
MS 509	2989 0051 00	DC 3009	4900050151	AS 2201

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"AXECO"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 530	1012207	DB 2002	4900050531	AS 2397
MS 515	1012208	DB 2006	4900050201	AS 2348
MS 885	10122942	DC 3025		
MS 807/D	1015281	DB 2132	4930252131-132	
MS 857	1015889	DB 2057	4930152121-4940252101	
MS 767	1016620	DB 2071	9493005004	
MS 769	1016621	DB 2074	4930152131-4930153131	
MS 774	1016622	DB 2075		
MS 885	V23	DC 3025		
MS 807/D	VSS101	DB 2132	4930252131-4930252132	
MS 767	VSS22	DB 2071	9493005004	
MS 857	VSS31	DB 2057	4930152121-4940252101	
MS 769	VSS44	DB 2074	4930152131	
MS 774	VSS55	DB 2075		
MS 515	W38	DB 2006	4900050201	AS 2348

"BAUER"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 542	732	DB 2030	4900050011-4900050221	AS 2415
MS 886	BK2253101	DC 3026	4900050231	
MS 881	BK2295900	DC 3004	4900050311	AS 2396
MS 888	BK3297202	DC 3031	4900152105	
MS 536	BN07088	DB 2020	4900050131	AS 2389
MS 593	BN10434	DB 2018	4900050171	AS 2414
MS 542	BN16533	DB 2030	4900050011-4900050221	AS 2415
MS 536	DV375	DB 2020	4900050131	AS 2389
MS 541	DV750	DB 2027	4900050191	AS 2460
MS 886	K22531	DC 3026	4900050231	
MS 533	KB22531.430	DB 2009	4900050121-4900050281	AS 2395
MS 881	KB22959.430	DC 3004	4900050311	AS 2396
MS 536	N07088	DB 2020	4900050131	AS 2389
MS 542	N07468	DB 2030	4900050221-4900050221	AS 2415
MS 516	N07537	DB 2012	4900050111	AS 2350
MS 541	N09003	DB 2027	4900050191	AS 2460

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"BECKER"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 1113	965402	DA 1020	4900050461	
MS 1115	965403	DA 1030	4900154100	
MS 721	965409	DA 1093	4900154121	
MS 720	965412	DA 1092	4900154131	
MS 651	U21900160	DA 1035		
MS 670	U41000160	DA 1041		
MS 697	U41900160	DA 1066		
MS 1116	U4163350	DA 1049	4900052151-4900152151	

"BLITZ SCHNIDER"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 521	758010	DA 1002	4900052121-4900052211	AS 2425
MS 518	758011	DA 1004	4900252111-4900252112	AS 2427
MS 636	758012	DA 1012		
MS 516	758013	DB 2012	4900050111	
MS 917	758014	DB 2031	4900050711-4900051711	
MS 608	758151	DB 2013	4900050771-4900050772	AS 2406
MS 540	758153	DB 2024	4900050321-4900051321	AS 2424
MS 515	758154	DB 2006	4900050201	AS 2348
MS 518	BS10	DA 1004	4900252111-112	AS 2427
MS 518	BS11	DA 1004	4900252111-112	AS 2427
MS 518	BS15-15	DA 1004	4900252111-112	AS 2427
MS 636	BS15-18.5	DA 1012		
MS 636	BS15-22	DA 1012		
MS 636	BS15-30	DA 1012		
MS 516	BS20	DB 2012	4900050111	AS 2350
MS 516	BS25	DB 2012	4900050111	AS 2350

"BUSCH"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 1111	532127417	DA 1047	4900052103	
MS 1114	532127419	DA 1048	4900052152-4900152152	
MS 1116	532127420	DA 1049	4900052151-4900152151	
MS 713	532157	DA 1085		
MS 1105	532221	DA 1060		
MS 722	532300	DA 1094		
MS 1111	532302	DA 1047	4900052103	

"BOGE"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
113/S	575000101	DF 5004	LB 13145/3	AS 2454
111/S	575000102	DF 5005	LB 962/2	AS 2451
MS 110/S	575000103	DF 5010	LB 719/2	AS 2450
112/S	575000105	DF 5006	LB 1374/2	AS 2452
MS	575000201	DB 2009	4900050121	AS 2395
MS	575000202	DB 2022	4900050101	AS 2419
MS	575000203	DB 2029	4900050181	AS 2467
MS	575000204	DB 2023	4900051441	
MS	575000205	DB 2003	4900050411	AS 2413
MS	575000206	DB 2002	4900050531	AS 2397
MS	575000207	DB 2001	4900052112	
MS	575000208	DB 2027	4900050191	AS 2460
MS 878/D	575000209	DB 2090	4930552101	
MS	5750002661	DB 2009	4900050121	AS 2395
MS	5750002662	DB 2022	4900050101	AS 2419
MS	5750002663	DB 2029	4900050181	AS 2467
MS	5750002665	DB 2003	4900050411	AS 2413
MS	5750002666	DB 2002	4900050531	AS 2397
MS	5750002667	DB 2001	4900052112	
MS	5750002668	DB 2027	4900050191	AS 2460
MS 878/D	5750002669	DB 2090	4930552101	

"BOTTARINI"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 541	221000	DB 2027	4900050191	AS 2460
MS 807/D	221022	DB 2132	4930252131-132	
MS 113/S	221029	DF 5004	LB 13145/3	AS 2454
MS 535	221045	DB 2043	4900050821	
MS 111/S	221046	DF 5005	LB 962/2	AS 2451
MS 540	221048	DB 2024	4900050321	AS 2424
MS 572	221056	DB 2004	4900050491	AS 2398
MS 542	221065	DB 2030	4900050221	AS 2415
MS 515	221090	DB 2006	4900050201	AS 2348
MS 533	221091	DB 2009	4900050121	AS 2395
MS 516	221092	DB 2012	4900050111	AS 2350
MS 593	221093	DB 2018	4900050171	AS 2414
MS 518	221094	DA 1004	4900252111	AS 2427
MS 536	221100	DB 2020	4900050131	AS 2389
MS 790	223457	DB 2103	4930152151	
MS 110/S	221055	DF 5010	LB 719/2	AS 2450

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"BUSCH"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 1114	532303	DA 1048	4900052152-4900152152	
MS 1116	532304	DA 1049	4900052151-4900152151	
MS 1116	532507	DA 1054		
MS 688	532508	DA 1053		
MS 1117	532509	DA 1052		
MS 1105	532510	DA 1061		
MS 719	532512	DA 1091		

"CECCATO"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 881	640040	DC 3004	4900050311	AS 2396
MS 672	640045	DA 1042		
MS 780	640047	DB 2093		
MS 717	640057	DA 1087		
MS 795	640067	DB 2118	4930354121-9493035021	
MS 541	640125	DB 2027	4900050191	AS 2460
MS 807/D	640135	DB 2132	4930252131-4930252131	
MS 533	640180	DB 2008	4900050121	AS 2395
MS 864	640181	DB 2141	4930554121	
MS 840/D	640196	DB 2138	4930352111-4930353111	
MS 842	640197	DB 2126		
MS 672	640510	DA 1042		
MS 807/D	640554	DB 2132	4930252131-4930252132	
MS 541	640559	DB 2027	4900050191	AS 2460
MS 881	640560	DC 3004	4900050311	AS 2396
MS 790	640561	DB 2103	4930152151-4940452111	
MS 864	640565	DB 2141	4930554121	
MS 542	640566	DB 2030	4900050221	AS 2415
MS 840/D	640568	DB 2138	4930352111-4930353111	
MS 842	640573	DB 2126		
MS 790	640581	DB 2103	4930152151	
MS 881	640910	DC 3004	4900050311	AS 2396
MS 807/D	940911	DB 2132	4930252131-493022132	

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"CECCATO"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 873	640912	DB 2161		
MS 795	640918	DB 2118	4930354121	
MS 791	640919	DB 2105	4940654101	
MS 540	641104	DB 2024	4900050321	AS 2424
MS 1110	641105	DA 1015	4900052107	
MS 533	641125	DB 2009	4900050121	AS 2395
MS 717	641151	DA 1087		
MS 593	641403	DB 2018	4900050171	AS 2414
MS 588	930569	DB 2022	4900050101-102	AS 2419
MS 589	930571	DB 2026	4900050331	
MS 573	930578	DB 2007	4900050371	AS 2402
MS 590	640511	DB 2029	4900050181	AS 2467
MS 113/S	641137	DF 5004	LB 13145/3	AS 2454

"COMPAIR"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 597	1311K01411	DB 2091	4900852121	
MS 680	20047-307	DC 3019		
MS 572	98262/102	DB 2004	4900050491	AS 2398
MS 623	98262/108	DC 3006	4900252151	AS 2399
MS 518	98262/110	DA 1004	4900252111	AS 2427
MS 772	98262/111	DA 1003	4900152101	
MS 591	98262/119	DB 2051	4900752101	
MS 592	98262/120	DB 2067	4900052110	AS 2400
MS 515	98262/121 NEW	DB 2160	4900050121-49000252161	AS 2401
MS 515	98262/121-OLD	DB 2033	4900050121	AS 2401
MS 609	98262/162	DB 2062	4930252121	
MS 865	98262/173	DB 2127	4930352151	
MS 809	98262/174	DB 2089	4930552111-4930552131	
MS 671	98262/194	DB 2087	4930252151	
MS 510/S	98262/214	DF 5010		
MS 111/S	98262/215	DF 5005	LB 962/2	AS 2451
MS 112/S	98262/216	DF 5006	LB 1374/2	AS 2452
MS 113/S	98262/223	DF 5004	LB 13145/3	AS 2454
MS 588	98262/23	DB 2022	4900050101	AS 2419

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"COMPAIR"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 581	98262/252	DB 2102	4930453101-4930454111	
MS 589	98262/26	DB 2026	4900050331	
MS 573	98262/33	DB 2007	4900050371	AS 2402
MS 630	98262/48	DB 2031	4900050711	
MS 624	98262/5072	DC 5072 - DC 3050	4900252261	AS 2421
MS 679	98262/5073	DC 3049	4900252251	AS 2403
MS 566	98262/5079	DC 5079 - DC 3044	4900352104	AS 2404
MS 675	98262/5085	DC 3057	4900152113	AS 2405
MS 629	98262/5117	DC 3068	4930152221	
MS 608	98262/77	DB 2013	490050771	AS 2406
MS 590	98262/78	DB 2029	4900050181	AS 2467
MS 676	98262/8020	DC 3013	4900050851	AS 2407
MS 678	98262/8026	DC 3016	4900252121	AS 2409
MS 677	98262/8027	DC 3017	4900352100-4900051173	AS 2436
MS 675	98262/8044	DC 3057	4900152281	AS 2405
MS 674	98262/8045	DC 3069	4970152231	
MS 627	98262/8046	DC 3071	490035221	
MS 521	121279	DA 1002	4900052121	AS 2425
MS 628	98262/8002			
MS 673	98262/8023	DC 3002	4900050861	AS 2408
MS 807/D	98262/197	DB 2190		
MS 529	98262/8003	DC 3124		

"DOMNICK HUNTER"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 542	55008	DB 2030	4900050221	AS 2415
MS 536	55009	DB 2020	4900050131	AS 2389
MS 593	55010	DB 2018	4900050171	AS 2414
MS 516	55011	DB 2012	4900050111	AS 2350
MS 533	55012	DB 2009	4900050121	AS 2395
MS 515	55014	DB 2006	4900050201	AS 2348
MS 588	55015	DB 2022	4900050101-102	AS 2419
MS 541	55016	DB 2027	4900050191	AS 2460
MS 590	55017	DB 2029	4900050181	AS 2467
MS 532	55018	DB 2003	4900050411	AS 2413
MS 886	55022	DC 3026	4900050231	
MS 881	55023	DC 3004	4900050311	AS 2396
MS 533	55041	DB 2009	4900050121	AS 2395
MS 881	55042	DC 3004	4900050311	AS 2396

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"DEMAG"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 515	00348774	DB 2006	4900050201	AS 2348
MS 532	00489174	DB 2003	4900050411	AS 2413
MS 516	00542274	DB 2012	4900050111	AS 2350
MS 537	00614874	DB 2027	4900050191	AS 2460
MS 593	00691674	DB 2018	4900050171	AS 2414
MS 591	04001474	DB 2051	4900752101	
MS 542	04115374	DB 2030	4900050221	AS 2415
MS 535	04179274	DB 2043	4900050821	
MS 530	04555974	DB 2002	4900050531	AS 2397
MS 533	05074574	DB 2009	4900050121	AS 2395
MS 543	05178274	DB 2055	4900050481	
MS 530	05482874	DB 2064	4900152104-490005053	
MS 857	10012674	DB 2057	4940252101	
MS 581/D	10173774	DB 2102	4941452102	
MS 686	10494474	DB 2094	4930652111	
MS 113/S	10525274	DF 5004	LB 13145/3	AS 2454
MS 111/S	10533574	DF 5005	LB 962/2	AS 2451
MS 112/S	10596274	DF 5006	LB 1374/2	AS 2452
MS 538/D	10651774	DB 2095		
MS 625	10651874	DB 2101-DB 2348		
MS 683	10882474	DB 2130	4930352131	
MS 581/D	10882574	DB 2102	4930452111	
MS 686	11427374	DB 2094	4930652111	
MS 112/S	13010174	DF 5006	LB 1374/2	AS 2454
MS 785	13010674	DB 2101		
MS 921	13088474	DB 2156		
MS 534	5555999			
MS 536	652674	DB 2020	4900050131	AS 2389
MS 539	10497574			
MS 858/D	48132000			
MS 543	05158274	DB 2055	4900050481	
MS 835/D	13138274	DB 2186	4930152101-102	

"DEMAG WITTIG"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLETTGUARD
MS 113/S	43257100	DF 5004	LB 13145/3	AS 2454
MS 682	43259300	DB 2104	4940854111	
MS 864	43259400	DB 2141	4930554121	
MS 593	43259500	DB 2018	4900050171	AS 2414
MS 782	43259600	DB 2089	493052111-131	
MS 581/D	43259900	DB 2102	4930453101	

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MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 634	551120170	DA 1010		
MS 588	55110300	DB 2022	4900050101-102	AS 2419
MS 589	551150310	DB 2026	4900050331	
MS 590	551150330	DB 2029	4900050181	AS 2467
MS 572	551150350	DB 2004	4900050491	AS 2398

"ECOAIR"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 757	4019.5101.2	DB 2035		
MS 588	4021.5101.2	DB 2022	4900050101-102	AS 2419
MS 918	4023.5101.2	DB 2034	4900152103-114	
MS 919	4033.5101.2	DB 2036	4900252101-311	
MS 920	4040.5106.2	DB 2059	4900152161-162	
MS 778	4071.5103.2	DB 2084	9494145004	
MS 543	4071.5105.2	DB 2055	4900050481	
MS 111/S	4101.5102.2	DF 5005	LB 962/2	AS 2451
MS 112/S	4102.5101.2	DF 5006	LB 1374/2	AS 2452
MS 113/S	4103.5102.2	DF 5004	LB 13145/3	AS 2454
MS 542	516.533	DB 2030	4900050221-4900652100	AS 2415
MS 542	732	DB 2030	4900050221-4900652100	AS 2415
MS 824/D	88200753	DB 2115	4930154111	
MS 541	93501807	DB 2027	4900050191	AS 2460
MS 891	93504231	DC 3039	4940152101	AS 2268
MS 693	93505519	DA 1059	4930052101-102	
MS 542	93514529	DB 2030	4900050221	AS 2415
MS 808/D	93520773	DB 2134	4930352121	
MS 581	93520781	DB 2102	4930453101	
MS 915	93520807	DB 2090	4930552101	
MS 919	93522902	DB 2036	4900252101-311	
MS 920	93523215	DB 2059	4900152161	
MS 112/S	93525657	DF 5006	LB 1374/2	AS 2452
MS 693	93568244	DA 1059	4930052101-102	
MS 541	93568251	DB 2027	4900050191	AS 2460
MS 891	93568277	DC 3039	4940152101	
MS 920	93568293	DB 2059	4900152161-162	
MS 919	93568301	DB 2036	4900252101-311	
MS 886	93600344	DC 3026	4900050231	
MS 881	93600385	DC 3004	4900050311	AS 2396
MS 888	93600740	DC 3031	4900152105	
MS 593	93603496	DB 2018	4900050171	AS 2414

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"ECOAIR"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 532	93604031	DB 2003	4900050411	AS 2413
MS 543	93604965	DB 2055	4900050481	
MS 581	93605558	DB 2102	4930453101	
MS 918	93611028	DB 2034	4900152103	
MS 641	93612497	DA 1021	4900257101	
MS 778	93612844	DB 2084	9494145004	
MS 113/S	93613107	DF 5004	LB 13145/3	AS 2454
MS 533	93618171	DB 2009	4900050121	AS 2395
MS 516	93618270	DB 2012	4900050111	AS 2350
MS 593	93618569	DB 2018	4900050171	AS 2414
MS 542	93618718	DB 2030	4900050221	AS 2415
MS 541	93618759	DB 2027	4900050191	AS 2460
MS 515	93618858	DB 2006	4900050201	AS 2348
MS 852	93619898	DB 2131	4940852101-102	
MS 572	93620037	DB 2004	4900050491	AS 2398
MS 622	93621514	DA 1001	4900050831	
MS 647	93623759	DA 1028	4940452101	
MS 852	93627941	DB 2131	4940852101-102	
MS 641	93682516	DA 1021	4900257101	
MS 886	BK 2253101	DC 3026	4900050231	
MS 881	BK 2295900	DC 3004	4900050311	AS 2396
MS 881	BK 22959430	DC 3004	4900050311	AS 2396
MS 888	BK 3297202	DC 3031	4900152105	
MS 891	BK 3712300	DC 3039	4940152101	
MS 693	BK 3842400	DA 1059	4930052101-102	
MS 536	BN 07088	DB 2020	4900050131	AS 2389
MS 516	BN 07537	DB 2012	4900050111	AS 2350
MS 541	BN 09003	DB 2027	4900050191	AS 2460
MS 593	BN 10434	DB 2018	4900050171	AS 2414
MS 532	BN 14565	DB 2003	4900050411	AS 2413
MS 541	BN 16273	DB 2027	4900050191	AS 2460
MS 542	BN 16533	DB 2030	4900050221	AS 2415
MS 543	BN 17756	DB 2055	4900050481	
MS 543	BN 18480	DB 2055	4900050481	
MS 915/D	BN 19767	DB 2090	4930552101	
MS 581	BN 20660	DB 2102	4930453101	
MS 809/D	BN 20661	DB 2089	4930552111	
MS 877	BN 20662	DB 2167	4930652102	
MS 920	BN 23573	DB 2059	4900152161	
MS 808/D	BN 24857	DB 2134	4930352121	

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"ECOAIR"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 581	BN 24858	DB 2102	4930453101	
MS 809/D	BN 24859	DB 2089	4930552111-131	
MS 915/D	BN 24860	DB 2090	4930552101	
MS 888	CK 432972	DC 3031	4900152105	
MS 891	CK 437123	DC 3039	4940152101	
MS 536	DV 750	DB 2020	4900050131	AS 2389
MS 541	DV 750	DB 2027	4900050191	AS 2460
MS 886	K 22531	DC 3026	4900050231	
MS 881	K 22959	DC 3004	4900050311	AS 2396
MS 888	K 32972	DC 3031	4900152105	
MS 533	KB 22531.430	DB 2009	4900050121	AS 2395
MS 881	KB 22959.430	DC 3004	4900050311	AS 2396
MS 536	N 07088	DB 2020	4900050131	AS 2389
MS 542	N 07468	DB 2030	4900050221	AS 2415
MS 516	N 07537	DB 2012	4900050111	AS 2350
MS 541	N 09003	DB 2027	4900050191	AS 2460
MS 593	N 10434	DB 2018	4900050171	AS 2414
MS 532	N 14565	DB 2003	4900050411	AS 2413
MS 542	93623759	DB 2030	4900050221	AS 2415
MS 809/D	N 20661	DB 2089	4930552111-131	
MS 113/S	N 2769500	DF 5004	LB 13145/3	AS 2454

"FINI"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 518	048032000	DA 1004	4900252111	AS 2427
MS 532	048037000	DB 2003	4900050411	AS 2413
MS 521	048041000	DA 1002	4900052121	AS 2425
MS 772	048043000	DA 1003	4900152101	
MS 530	048044000	DB 2002	4900050531	AS 2397
MS 588	048046000	DB 2022	4900050101	AS 2419
MS 754	048048000	DB 2023	4900051441	
MS 637	048132000	DA 1016		
MS 639	048135000	DA 1018		
MS 640	048138000	DA 1019		
MS 684	048150000	DA 1043		
MS 689	048273000	DA 1055		
MS 110/S	048275000	DF 5010	LB 719/2	AS 2450
MS 111/S	048287000	DF 5005	LB 962/2	AS 2451
MS 540	048311000	DB 2024	4900050321	AS 2424

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"PUROLATOR"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLETTGUARD
MS 516	7687452	DB 2012	4900050111	AS 2350
MS 797	7821119	DB 2120		
MS 906	7821275	DB 2085	4940352121	
MS 785	7825342	DB 2101		
MS 873	7825656	DB 2161		
MS 925	7835168	DB 2121		
MS 780	7835986	DB 2093		
MS 796	7839484	DB 2119		
MS 865/D	7853179	DB 2127		
MS 798	7865090	DB 2128		
MS 903	7891617	DC 3064		
MS 636	7951635	DA 1012		
MS 538/D	7952070	DB 2095		
MS 542	852468	DB 2030	4900050221	AS 2415
MS 516	852469	DB 2012	4900050111	AS 2350
MS 541	852470	DB 2027	4900050191	AS 2460
MS 536	852471	DB 2020	4900050131	AS 2389
MS 593	852472	DB 2018	4900050171	AS 2414
MS 533	852473	DB 2009	4900050121	AS 2395
MS 515	852474	DB 2006	4900050201	AS 2348
MS 623	852537	DC 3006		AS 2399
MS 755	852540	DB 2025	4900050521	AS 2429
MS 532	852582	DB 2003	4900050411	AS 2413
MS 588	852590	DB 2022	4900050101-102	AS 2419
MS 540	852606	DB 2024	4900050321	AS 2424
MS 792	852619	DB 2106		
MS 756	852631	DB 2032		
MS 886	852637	DC 3026	4900050331	
MS 881	852645	DC 3004	4900050311	AS 2396
MS 530	852655	DB 2002	4900050531	AS 2397
MS 518	852774340	DA 1004	4900252111-112	AS 2427
MS 636	852774450	DA 1012	4900050111	
MS 572	852870	DB 2004	4900050491	AS 2398
MS 796	853170098	DB 2119		
MS 797	853170156	DB 2120		
MS 906	853170180	DB 2085	4940352121	
MS 925	853170242	DB 2121		
MS 783	853170314	DB 2096		
MS 798	853170350	DB 2128		
MS 798	853170445	DB 2122		
MS 780	853223180	DB 2093		
MS 873	853223242	DB 2161		
MS 865/D	853300350	DB 2127		
MS 785	853300445	DB 2101		
MS 686	853400480	DB 2094	4930652111	

"HYDROVANE"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 1108	11131	DA 1014		
MS 1110	12857	DA 1015	4900052107	
MS 1107	13815	DA 1013		
MS 649	20113	DA 1032		
MS 1107	2563	DA 1013		
MS 1108	30571	DA 1014		
MS 1107	30724	DA 1013		
MS 694	30725/0	DA 1063		
MS 706	30732	DA 1077		
MS 808/D	32486	DB 2134	4930352121	
MS 1110	3407	DA 1015	4900052107	
MS 1108	3415	DA 1014		
MS 707	52001058	DA 1079		
MS 711	52022	DA 1083		
MS 1107	52471	DA 1013		
MS 708	52841	DA 1080		
MS 707	56274	DA 1079		
MS 707	57029	DA 1079		
MS 708	58034	DA 1080		
MS 1108	58336	DA 1014		
MS 708	59177	DA 1080		
MS 710	59180	DA 1082		
MS 1110	59874	DA 1015	4900052107	
MS 708	59891	DA 1080		
MS 113/S	70291	DF 5004	LB 13145/3	AS 2454
MS 709	70539	DA 1081		
MS 695	30733	DA 1064		

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" INGERSOLL-RAND"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 548	35579184	DB 2039		AS 2268
MS 547	35813187	DB 2040	4900154101-4900155101	
MS 547	36502862	DB 2040	4900154101	
MS 775	39705728	DB 2076		
MS 621	39726286	DB 2041	4900254121	AS 2262
MS 555/D	39734892	DB 2098	4930255102	AS 2274
MS 553	39751391	DB 2046	4900154102	AS 2273
MS 560	88181755	DB 2088	4930554101	
MS 824/D	88200753	DB 2115	4930154111	
MS 547	92042506	DB 2040	4900154101- 4900155101	
MS 546	92077601	DB 2038	4900254100	AS 2437
MS 588	92087881	DB 2022	4900050101-102	AS 2419
MS 662	92101153	DB 2083	4940854101	
MS 552	92128883	DB 2037	4900050781-4900055181	AS 2417
MS 545	92522135	DB 2058	4900152111- 4900513113	AS 2435
MS 922	92699198	DB 2083	4940855101	
MS 549	92702224	DB 2045-DB 9016	4900354101	
MS 663	92719434	DB 2060	4940654102	
MS 615	92725514	DB 2082		
MS 552	92735547	DB 2037	4900050781-4900055181	
MS 620	92754688	DB 2072	4930154121-4930154101	AS 2421
MS 555/D	92754696	DB 2098	4930255102	AS 2274
MS 556	92871326			
MS 558/D	39738265	DB 2092		AS 2276-AS 2420
MS 560	92765783	DB 2088	4930554101	
MS 662	92808286	DB 2137		
MS 823	92824473	DB 2136	4900054161-4900055161	
MS 664	92866508	DB 2144		
MS 824/D	92890334	DB 2115	4930154111	
MS 541	93501807	DB 2027	4900050191	AS 2460
MS 891	93504231	DC 3039	4940152101	
MS 693	93505519	DA 1059		
MS 542	93514529	DB 2030	4900050221	AS 2415
MS 808/D	93520773	DB 2134	4930352121	
MS 581	93520781	DB 2102	4930453101	
MS 915/D	93520807	DB 2090	4930552101	
MS 919	93522902	DB 2036	4900252101-311	
MS 920	93523215	DB 2059	4900152161-162	

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" INGERSOLL-RAND"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 112/S	93525657	DF 5006	LB 1374/2	AS 2452
MS 541	93568251	DB 2027	4900050191	AS 2460
MS 541	93568269	DB 2027	4900050191	AS 2460
MS 920	93568293	DB 2059	490015261-162	
MS 919	93568301	DB 2036	4900252101-311	
MS 886	93600344	DC 3026	4900050231	
MS 881	93600385	DC 3004	4900050311	AS 2396
MS 888	93600740	DC 3031	4900152105	
MS 593	93603496	DB 2018	490005017	AS 2414
MS 532	93604031	DB 2003	4900050411	AS 2413
MS 543	93604965	DB 2055	4900050481	
MS 581	93605558	DB 2102	4930453101	
MS 918	93611028	DB 2034	4900152103-114	
MS 641	93612497	DA 1021	4900257101	
MS 113/S	93613107	DF 5004	LB 13145/3	AS 2454
MS 533	93618171	DB 2009	4900050121	AS 2395
MS 516	93618270	DB 2012	4900050111	AS 2350
MS 593	93618569	DB 2018	4900050171	AS 2414
MS 542	93618718	DB 2030	4900050221	AS 2415
MS 541	93618759	DB 2027	4900050191	AS 2460
MS 515	93618858	DB 2006	4900050201	AS 2348
MS 852	93619898	DB 2131	4940852101-102	
MS 572	93620037	DB 2004	4900050491	AS 2398
MS 622	93621514	DA 1001	4900050831	
MS 647	93623759	DA 1028	4940452101	
MS 852	93627941	DB 2131	4940852101-102	
MS 641	93682516	DA 1021	4900257101	
MS 551	92062132	DB 2061-DB 9005		
MS 556	92871326	DB 2077		AS 2418
MS 557/D	39737473	DB 2077		AS 2418
MS 557	92871326	DB 2077		AS 2418
MS 558/D	39831904	DB 2207-DB 2092		AS 2276-AS 2420
MS 833/D	93489607	DB 2351		
MS 559/D	92722750	DB 2086-DB 9006	4930254101	AS 2420
MS 869	36723666	DB 2233		AS 2267
MS 870	39722897	DB 2116		AS 2270
MS 870	39705736	DB 2116		AS 2270
MS 871	39742861	DB 2199		AS 2277
MS 872	39727490	DB 2347		AS 2278
MS 668	35580661	DB 9014		AS 2258
MS 770	39760962	DA 1157		AS 2280
MS 771	39760970	DA 1158		AS 2281

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"KAESER"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 863	6.1968.0	DB 2064	4900152131	
MS 863	6.1968.1	DB 2064	4900152131	
MS 863	6.2010.0	DB 2064	4900152131	
MS 863	6.2110.1	DB 2064	4900152131	
MS 536	6.1962.0	DB 2020	4900050131	AS 2389
MS 536	6.2029.0	DB 2020	4900050131	AS 2389
MS 825	6.3568.0			
MS 825	6.3569.0			
MS 828	6.3567.0			
MS 828	6.3571.0			
MS 829	6.3566.0	DE 4034		
MS 829	6.3669.0	DE 4034		
MS 856	6.3567.0	DB 2465		
MS 856	6.3671.0	DB 2465		
MS 855	6.1963.1			
MS 845	6.1960.0	DB 2012	4900050111	AS 2350
MS 845	6.2012.1	DB 2012	4900050111	AS 2350
MS 859	5.2659.0	DE 4004		
MS 859	6.1947.0	DE 4004		
MS 859	6.2031.1	DE 4004		
MS 860	6.1963.0	DC 3164	4900252241	
MS 860	6.2011.1	DC 3164	4900252241	
MS 861	6.1964.0	DB 2025	4900050521	AS 2429
MS 861	6.2015.0	DB 2025	4900050521	AS 2429
MS 540	6.1965.0	DB 2180-DB 2024	4900050321	AS 2424
MS 540	6.2013.0	DB 2180-DB 2024	4900050321	AS 2424
MS 588	6.1961.0	DB 2022	4900050101-102	AS 2419
MS 588	6.2032.0	DB 2022	4900050101-102	AS 2419
MS 923	6.2035.0			
MS 926	6.3525.0			

"MARK"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 790	630284	DB 2103	4930152151	
MS 881	640040	DC 3004	4900050311	AS 2396
MS 672	640045	DA 1042		
MS 790	640047	DB 2103	4930152151	
MS 717	640057 NEW	DA 1087		
MS 685	640057 OLD	DA 1044		
MS 795	640067	DB 2118	4930354121	
MS 541	640125	DB 2027	4900050191	AS 2460

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"MANN & HUMMEL"

MAKRA REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 542	DB 2030	4900050011	AS 2415
MS 588	DB 2022	4900050101-102	AS 2419
MS 516	DB 2012	4900050111	AS 2350
MS 533	DB 2009	4900050121	AS 2395
MS 536	DB 2020	4900050131	AS 2389
MS 508	DC 3008	4900050141	AS 2200
MS 509	DC 3009	4900050151	AS 2201
MS 593	DB 2018	4900050171	AS 2414
MS 590	DB 2029	4900050181	AS 2467
MS 590	DB 2029	4900050182	AS 2467
MS 541	DB 2027	4900050191	AS 2460
MS 515	DB 2006	4900050201	AS 2348
MS 542	DB 2030	4900050221	AS 2415
MS 886	DC 3026	4900050231	
MS 533	DB 2009	4900050281	AS 2395
MS 512	DC 3022	4900050291	AS 2202
MS 512/1	DC 3021	4900050301	
MS 881	DC 3004	4900050311	AS 2396
MS 540	DB 2024	4900050321	AS 2424
MS 589	DB 2026	4900050331	
MS 573	DB 2007	4900050371	AS 2402
MS 532	DB 2003	4900050411	AS 2413
MS 633	DA 1009	4900050431	
MS 532	DB 2003	4900050441	AS 2413
MS 1113	DA 1020	4900050461	
MS 543	DB 2055	4900050481	
MS 572	DB 2004	4900050491	AS 2398
MS 501	DC 3005	4900050511	AS 2203
MS 755	DB 2025	4900050521	AS 2423
MS 530	DB 2002	4900050531	AS 2397
MS 753	DB 2021	4900050591	
MS 753	DB 2021	4900050641	
MS 764	DB 2056	4900050681	
MS 917	DB 2031	4900050711	
MS 608	DB 2013	4900050771	AS 2406
MS 608	DB 2013	4900050772	AS 2406
MS 608	DB 2013	4900050773	AS 2406

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"MANN"

MAKRA REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 552	DB 2037	4900050781	AS 2417
MS 753	DB 2021	4900050801	
MS 535	DB 2043	4900050821	
MS 622	DA 1001	4900050831	
MS 676	DC 3013	4900050851	AS 2407
MS 673	DC 3002	4900050861	AS 2408
MS 588	DB 2022	4900051101	AS 2419
MS 516	DB 2012	4900051111	AS 2350
MS 533	DB 2009	4900051121	AS 2408
MS 536	DB 2020	4900051131	AS 2389
MS 593	DB 2018	4900051171	AS 2414
MS 677	DC 3017	4900051173	AS 2436
MS 590	DB 2029	4900051181	AS 2467
MS 676	DC 3013	4900051189	AS 2407
MS 541	DB 2027	4900051191	AS 2460
MS 515	DB 2006	4900051201	AS 2348
MS 608	DB 2013	4900051206	AS 2406
MS 542	DB 2030	4900051221	AS 2415
MS 678	DB 3016	4900051248	AS 2409
MS 678	DC 3016	4900051249	AS 2409
MS 592	DB 2067	4900051282	AS 2400
MS 545	DB 2058	4900051313	AS 2435
MS 540	DB 2024	4900051321	AS 2424
MS 532	DB 2003	4900051411	AS 2413
MS 754	DB 2023	4900051441	
MS 543	DB 2055	4900051481	
MS 755	DB 2025	4900051521	AS 2423
MS 530	DB 2002	4900051531	AS 2397
MS 530	DB 2002	4900051531	AS 2397
MS 917	DB 2031	4900051711	
MS 608	DB 2013	4900051773	AS 2406
MS 917	DA 1031	4900052100	
MS 1111	DA 1047	4900052103	
MS 1110	DA 1015	4900052107	
MS 592	DB 2067	4900052110	AS 2400
MS 611	DB 2001	4900052112	
MS 611	DB 2001	4900052113	
MS 521	DA 1002	4900052121	AS 2425
MS 530	DB 2002	4900052132	AS 2397

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"MANN"

MAKRA REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 1116	DA 1049	4900052151	
MS 1114	DA 1048	4900052152	
MS 1102	DA 1050	4900052161	
MS 1103	DA 1051	4900052162	
MS 1104	DA 1022	4900052163	
MS 530	DB 2002	4900052191	AS 2397
MS 521	DA 1002	4900052211	AS 2425
MS 627	DC 3071	4900052221	
MS 698	DA 1067	4900052271	
MS 853	DB 2139	4900052341	
MS 1102	DA 1050	4900052351	
MS 1103	DA 1051	4900052352	
MS 1104	DA 1022	4900052353	
MS 532	DB 2003	4900052361	AS 2413
MS 611	DB 2001	4900053113	
MS 832	DB 2136	4900054161	
MS 650/D	DB 2135	4900054171	
MS 552	DB 2037	4900054181	AS 2417
MS 832	DB 2136	4900055161	
MS 552	DB 2037	4900055181	AS 2417
MS 530	DB 2002	4900103113	AS 2397
MS 772	DA 1003	4900152101	
MS 918	DB 2034	4900152103	
MS 530	DB 2064	4900152104	
MS 888	DC 3031	4900152105	
MS 572	DB 2004	4900152107	AS 2398
MS 545	DB 2058	4900152111	AS 2435
MS 675	DC 3057	4900152113	AS 2405
MS 918	DB 2034	4900152114	
MS 530	DB 2002	4900152121	AS 2397
MS 530	DB 2002	4900152132	AS 2397
MS 1116	DA 1049	4900152151	
MS 1114	DA 1048	4900152152	
MS 920	DB 2059	4900152161	
MS 920	DB 2059	4900152162	
MS 1114	DA 1048	4900152171	
MS 1116	DA 1049	4900152172	
MS 532	DB 2002	4900152181	AS 2397
MS 675	DC 3057	4900152281	AS 2405
MS 572	DB 2004	4900152331	AS 2398

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"MANN"

MAKRA REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 545	DB 2058	4900153111	
MS 530	DB 2002	4900153132	AS 2397
MS 1115	DA 1030	4900154100	
MS 547	DB 2040	4900154101	
MS 553	DB 2046	4900154102	AS 2273
MS 721	DA 1093	4900154121	
MS 720	DA 1092	4900154131	
MS 547	DB 2040	4900155101	
MS 919	DB 2036	4900252101	
MS 772	DA 1003	4900252109	
MS 518	DA 1004	4900252111	AS 2427
MS 518	DA 1004	4900252112	AS 2427
MS 518	DA 1004	4900252113	AS 2427
MS 678	DC 3016	4900252121	AS 2409
MS 502	DC 3015	4900252131	AS 2393
MS 515	DB 2033	4900252161	AS 2401
MS 516	DB 2012	4900252201	AS 2350
MS 515	DB 2006	4900252211	AS 2348
MS 533	DB 2009	4900252221	AS 2395
MS 532	DB 2003	4900252231	AS 2413
MS 505	DC 3032	4900252271	AS 2390
MS 533	DB 2009	4900252291	AS 2395
MS 515	DB 2006	4900252292	AS 2348
MS 919	DB 2036	4900252311	
MS 854	DB 2140	4900252351	
MS 533	DB 2009	4900252431	AS 2395
MS 515	DB 2006	4900252441	AS 2348
MS 546	DB 2038	4900254100	AS 2437
MS 621	DB 2041	4900254121	AS 2262
MS 641	DA 1021	4900257101	
MS 677	DC 3017	4900352100	AS 2436
MS 622	DA 1001	4900352102	
MS 622	DA 1001	4900352103	
MS 509	DC 3009	4900352121	AS 2201
MS 535	DB 2043	4900352122	
MS 588	DB 2022	4900352132	AS 2419
MS 503	DC 3027	4900352141	AS 2442
MS 593	DB 2018	4900352161	AS 2414
MS 517	DB 2099	4900352201	
MS 627	DC 3071	4900352221	
MS 516	DB 2012	4900352301	AS 2350

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CROSS REFERENCE
REPLACEMENT

"MANN"

MAKRA REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 588	DB 2022	4900353132	AS 2419
MS 663	DB 2060	4900354101	
MS 540	DB 2024	4900452101	AS 2414
MS 540	DB 2024	4900452102	AS 2424
MS 536	DB 2020	4900452121	AS 2389
MS 536	DB 2020	4900452131	AS 2389
MS 589	DB 2026	4900452141	
MS 515	DB 2006	4900502010	AS 2348
MS 541	DB 2027	4900552141	AS 2460
MS 541	DB 2027	4900552151	AS 2460
MS 542	DB 2030	4900652100	AS 2415
MS 542	DB 2030	4900652131	AS 2415
MS 755	DB 2025	4900652141	AS 2429
MS 591	DB 2051	4900752101	
MS 779	DB 2091	4900852121	
MS 693	DA 1059	4930052101	
MS 693	DA 1059	4930052102	
MS 762	DC 3067	4930152111	
MS 500	DC 3038	4930152112	AS 2391
MS 857	DB 2057	4930152121	
MS 769	DB 2074	4930152131	
MS 790	DB 2103	4930152151	
MS 511/D	DC 3065	4930152181	AS 2446
MS 571/D	DC 3074	4930152211	AS 2445
MS 629	DC 3068	4930152221	
MS 674	DC 3069	4930152231	
MS 594/D	DC 3077	4930152241	AS 2457
MS 769	DB 2074	4930153131	AS 2445
MS 620	DB 2072	4930154101	AS 2421
MS 824/D	DB 2115	4930154111	
MS 620	DB 2072	4930154121	AS 2421
MS 620	DB 2072	4930155101	AS 2421
MS 824/D	DB 2115	4930155111	
MS 620	DB 2072	4930155191	AS 2421
MS 609	DB 2062	4930252121	
MS 807/D	DB 2132	4930252131	
MS 807/D	DB 2132	4930252132	
MS 515	DB 2160	4930252141	
MS 671	DB 2087	4930252151	
MS 807/D	DB 2132	4930253131	

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"MANN"

MAKRA REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
	DC 3075	4930253171	
MS 555/D	DB 2098	4930254102	AS 2274
MS 555/D	DB 2098	4930255102	AS 2274
MS 610/D	DC 3085	4930352102	AS 2444
MS 610/D	DC 3085	4930352103	AS 2444
MS 840/D	DB 2138	4930352111	
MS 808/D	DB 2134	4930352121	
MS 846	DB 2130	4930352131	
MS 654/D	DC 3082	4930352141	
MS 846	DB 2130	4930352161	
MS 840/D	DB 2138	4930353111	
MS 808/D	DB 2134	4930353121	
MS 795	DB 2118	4930354121	
MS 655/D	DC 3081	4930452131	AS 2461
MS 581	DB 2102	4930453101	
MS 581	DB 2102	4930454111	
MS 581	DB 2102	4930454151	
MS 915/D	DB 2090	4930552101	
MS 809/D	DB 2089	4930552111	
MS 809/D	DB 2089	4930552131	
MS 915/D	DB 2090	4930553101	
MS 809/D	DB 2089	4930553111	
MS 560	DB 2088	4930554101	
MS 864	DB 2141	4930554121	
MS 560	DB 2088	4930555101	
MS 877	DB 2167	4930652102	
MS 686	DB 2094	4930652111	
MS 877	DB 2167	4930653102	
MS 857	DB 2057	4940252101	
MS 906	DB 2085	4940352121	
MS 647	DA 1028	4940452101	
MS 790	DB 2103	4940452111	
MS 807/D	DB 2132	4940651001	
MS 807/D	DB 2132	4940651002	
MS 791	DB 2105	4940654101	
MS 663	DB 2060	4940654102	
MS 791	DB 2105	4940654103	
MS 852	DB 2131	4940852101	
MS 852	DB 2131	4940852102	
MS 852	DB 2131	4940853102	
MS 922	DB 2083	4940854101	

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"MANN"

MAKRA REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 682	DB 2104	4940854111	
MS 922	DB 2083	4940855101	
MS 808/D	DB 2133	4941252101	
MS 793	DB 2108	4941252111	
MS 840/D	DB 2138	4941252131	
MS 581	DB 2102	4941254101	
MS 827	DB 2124	4941352101	
MS 581	DB 2102	4941450101	
MS 581	DB 2102	4941452101	
MS 581	DB 2102	4941452102	
MS 809/D	DB 2089	4941654101	
MS 809/D	DB 2089	4941852101	
MS 915/D	DB 2090	4941854111	
MS 915/D	DB 2090	4942552101	
MS 675	DC 3057	9490015026	AS 2405
MS 720	DA 1092	9490015027	
MS 767	DB 2071	9493005004	
MS 693	DA 1059	9493005009	
MS 769	DB 2074	9493015021	
MS 790	DB 2103	9493015023	
MS 515	DB 2160	9493015031	
MS 629	DC 3068	9493015050	
MS 674	DC 3069	9493015407	
MS 807/D	DB 2132	9493025005	
MS 671	DB 2087	9493025024	
MS 795	DB 2118	9493035021	
MS 693	DA 1059	9494015003	
MS 778	DB 2084	9494145004	
MS 784	DB 2097	9494185001	
MS 510/D	DC 3066	4930152141	AS 2471
MS 891	DC 3039	4940152101	

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REPLACEMENT

"MARK"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLETTGUARD
MS 807/D	640135	DB 2132	4930252131-132	
MS 533	640180	DB 2008	4900050121	AS 2395
MS 864	640181	DB 2141	4930554121	
MS 542	640189	DB 2030	4900050221	AS 2415
MS 840/D	640196	DB 2138	4930352111	
MS 842	640197	DB 2126		
MS 672	640510	DA 1042		
MS 541	640559	DB 2027	4900050191	AS 2460
MS 881	640560	DC 3004	4900050311	AS 2396
MS 864	640565	DB 2141	4930554121	
MS 840/D	640568	DB 2138	4930352111	
MS 842	640573	DB 2126		
MS 807/D	640911	DB 2132	4930252131-132	
MS 873	640912	DB 2161		
MS 795	640918	DB 2118	4930354121	
MS 791	640919	DB 2105	4940654101	
MS 540	641104	DB 2024	4900050321	AS 2424
MS 533	641125	DB 2009	4900050121	AS 2395
MS 717	641151	DA 1087		
MS 593	641403	DB 2018	4900050171	AS 2414

"MAHLE"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLETTGUARD
MS 593	5073440	DB 2018	4900050171	AS 2414
MS 541	5073457	DB 2027	4900050191	AS 2460
MS 542	5073465	DB 2030	4900050221	AS 2415
MS 533	5073481	DB 2009	4900050121	AS 2395
MS 783	5073689	DB 2096		
MS 906	5150190	DB 2085	4940352121	
MS 906	5154190	DB 2085	4940352121	
MS 906	5737427	DB 2085	4940352121	
MS 111/S	S75.107	DF 5004	LB 962/2	AS 2452
MS 515	SK 10.15	DB 2006	4900050201	AS 2348
MS 530		DB 2002	4900050531	AS 2397

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REPLACEMENT

"MAT TEI"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 1108	11131	DA 1014		
MS 1110	12857	DA 1015	4900052107	
MS 649	20113	DA 1032		
MS 772	2563	DA 1003		
MS 1108	30571	DA 1014		
MS 1107	30724	DA 1013		
MS 695	30733	DA 1064		
MS 846	32486	DB 2130	4930352131-161	
MS 1110	3407	DA 1015	4900052107	
MS 1108	3415	DA 1014		
MS 846	4055	DB 2130	4930352131-161	
MS 846	4075	DB 2130	4930352131	
MS 846	4090	DB 2130	4930352131	
MS 707	52001058	DA 1079		
MS 1107	52471	DA 1013		
MS 708	52841	DA 1080		
MS 707	56274	DA 1079		
MS 707	57029	DA 1079		
MS 708	58034	DA 1080		
MS 1108	58336	DA 1014		
MS 708	59177	DA 1080		
MS 710	59180	DA 1082		
MS 1110	59874	DA 1015	4900052107	
MS 708	59891	DA 1080		
MS 113/S	70291	DF 5004	LB 13145/3	AS 2454
MS 709	70539	DA 1081		

"POWER SYSTEM"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 530	49001	DB 2002	4900050531	AS 2397
MS 532	49002	DB 2003	4900050411	AS 2413
MS 799	49003	DB 2123		
MS 807/D	49004	DB 2132	4930252131-132	
MS 827	49005	DB 2124	4941352101	
MS 915	49006	DB 2090	4930552101	
MS 842	49007	DB 2126		
MS 110/S	49008	DF 5010	LB 719/2	AS 2450
MS 111/S	49009	DF 5005	LB 962/2	AS 2451
MS 842	CS 16139000	DB 2126		
MS 807/D	CS 37759000	DB 2132	4930252131-132	

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REPLACEMENT

"POWER SYSTEM"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLETTGUARD
MS 827	CS 90079000	DB 2124	4941352101	
MS 915	CS 90209000	DB 2090	4930552101	
MS 530	SP 04150001	DB 2002	4900050531	AS 2397
MS 532	SP 18220001	DB 2003	4900050411	AS 2413
MS 799	SP 30370001	DB 2123		

"SULLAIR"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLETTGUARD
MS 516	1073	DB 2012	4900050111	AS 2350
MS 536	1075	DB 2020	4900050131	AS 2351
MS 541	1085	DB 2027	4900050191	AS 2460
MS 572	1086	DB 2004	4900050491	AS 2398
MS 542	1087	DB 2030	4900050221	AS 2415
MS 542	1098	DB 2030	4900050221	AS 2415
MS 516	11001	DB 2012	4900050111	AS 2350
MS 516	11018	DB 2012	4900050111	AS 2350
MS 542	11088	DB 2030	4900050221	AS 2352
MS 515	11101	DB 2006	4900050201-4900252211	AS 2348
MS 542	11145	DB 2030	4900050221	AS 2415
MS 536	11200	DB 2020	4900050131-4900452121	AS 2389
MS 516	11320	DB 2012	4900050111	AS 2350
MS 542	11399	DB 2030	4900050221	AS 2415
MS 515	1191	DB 2006	4900050201	AS 2344
MS 515	1799	DB 2006	4900050201	AS 2344
MS 533	183	DB 2009	4900050121	AS 2395
MS 515	241503	DB 2006	4900050201	AS 2344
MS 516	249492	DB 2012	4900050111	AS 2350
MS 542	250005-974	DB 2030	4900050221	AS 2415
MS 515	250034-114	DB 2006	4900050201	AS 2348
MS 536	250034-118	DB 2020	4900050131	AS 2389
MS 542	250034-122	DB 2030	4900050221	AS 2415
MS 753	3124	DB 2021	4900050641	
MS 516	314	DB 2012	4900050111	AS 2350
MS 572	3196	DB 2004	4900050491	AS 2398
MS 647	3359	DA 1028	4940452101	
MS 515	40192	DB 2006	4900050201	AS 2348
MS 542	40259	DB 2030	4900050221	AS 2415
MS 516	40635	DB 2012	4900050111	AS 2350
MS 536	40670	DB 2020	4900050131	AS 2389
MS 542	408167-001	DB 2030	4900050221	AS 2415

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"ROTAIR"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 643	157002 S	DA 1024		
MS 642	157003 S	DA 1023		
MS 777	157004 S	DB 2081		
MS 777	157005 S	DB 2080	4940252101	
MS 864	157007 S	DB 2142	4930554121	
MS 530	157010 S	DB 2002	4900050531	AS2397
MS 532	157020 S	DB 2003	4900050411	AS 2413
MS 516	157030 S	DB 2012	4900050111	AS 2350
MS 535	157040 S	DB 2043	4900050821	
MS 588	157070 S	DB 2022	4900050101-102	AS 2419
MS 893	157095 S	DC 3041		
MS 651	157100 S	DC 3003		AS 2394
MS 908	157110 S	DC 3080		
MS 899	157120 S	DC 3052		
MS 905	157130 S	DC 3072		
MS 843	157140 S	DC 3078		
MS 906	157141 S	DC 3076		
MS 774	157142 S	DB 2075		
MS 876	157145 S	DB 2165		
MS 924	157147 S	DB 2166		
MS 904	157901 S	DC 3070		
MS 892	157090 S	DC 3040		
MS 875	9056573	DB 2163		
MS 874	9056574	DB 2162		
MS 880	9056595	DB 2169		
MS 843	8234074	DC 3028		

"GARDNER DENVER"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 562	2009601	DB 2155		
MS 562	2014830	DB 2155		
MS 763	2109430	DB 2154		
MS 543	55b27	DB 2155		
MS 868	55b5	DB 2154		
MS 562	55b6	DB 2155		
MS 761	55b7	DB 2050		
MS 562	5826902	DB 2155		
MS 562	eq 73986	DB 2155-DC 3090		
MS 562	eq 80105	DB 2155		
MS 868	esg 66025	DB 2154		
MS 562	esn 65981	DB 2155		

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REPLACEMENT

"SULLAIR"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 536	408167-006	DB 2020	4900050131	AS 2389
MS 515	408167-010	DB 2006	4900050201	AS 2348
MS 542	440647	DB 2030	4900050221	AS 2415
MS 572	47043	DB 2004	4900050491	AS 2398
MS 516	47044	DB 2012	4900050111	AS 2350
MS 542	47284	DB 2030	4900050221	AS 2415
MS 572	49907	DB 2004	4900050491	AS 2398
MS 542	5221	DB 2030	4900050221	AS 2415
MS 622	5722	DA 1001	4900050831	
MS 593	667	DB 2018	4900050171	AS 2414
MS 536	743	DB 2020	4900050131	AS 2389
MS 542	954	DB 2030	4900050221	AS 2415
MS 787	250001-213			AS 2362
MS 788	408167-009	DB 2200		AS 2365
MS 789	49805-001			AS 2361

"ROTORCOMP"

MAKRA REF.	ORIGINAL REF.	SOTRAS	MANN&HUMMEL	FLEETGUARD
MS 541	r 12268	DB 2027	4900050191	AS 2460
MS 111/S	r 12476	DF 5005	LB 962/2	AS 2451
MS 541	r 12708	DB 2027	4900050191	AS 2460
MS 521	r 1279	DA 1002	4900052121-211	AS 2425
MS 590	r 14035	DB 2029	4900050181	AS 2467
MS 521	r 21279	DA 1002	4900052121-211	AS 2425
MS 772	r 227	DA 1003	4900152101	
MS 518	r 228	DA 1004	4900252111-112	AS 2427
MS 111/S	r 27432	DF 5005	LB 962/2	AS 2451
MS 113/S	r 28294	DF 5004	LB 13145/3	AS 2454
MS 112/S	r 28875	DF 5006	LB 1374/2	AS 2452
MS 111/S	r 7432	DF 5005	LB 962/2	AS 2451
MS 113/S	r 8294	DF 5004	LB 13145/3	AS 2454
MS 112/S	r 8875	DF 5006	LB 1374/2	AS 2452