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 <b>291317870</b> 14-VOLT, 55-AMP, IR/EF, DUST PROOF		<b>ATLAS COPCO</b> machinery with <b>DEUTZ</b> Engine Models F2L912, F3L912, F3L913, F4L912, F4L913, F5L912, F6L912, F6L913, BF4L913, BF4L913T, BF6L913, BF6L913T, 3-172D, 3-187D, 4-230D, 4-249D, 6-584, D2011 L4, D2011 L3, BF4M2011, F3L D914-L03, F3M2011, BF3M1011F, TCD2011 L04
<b>ATLAS COPCO</b>		
 <b>3960212</b> 14-VOLT, 80-AMP, CW, IR, DUST PROOF		<b>ATLAS COPCO</b> machinery with <b>DEUTZ</b> Engine Models BF4L2011, F4L2011, BF4L1011FT, BF4L1011, TCD2011 L04, TD2011 L04i, F3L1011, F3L1011F, F4L1011, D2011 L02, D2011 L03i, BF4M2011 L04W, TCD2011 L04W
<b>BOBCAT</b>		
 <b>6681857</b> 12-VOLT, 90-AMP, CW, IR/IF, W/PULLEY	6675292, 6678205	<b>BOBCAT</b> All-Wheel Steer Loader Models A300, A770, Compact Excavator Models 331, 335, 337, 430, 435, X331 ALL, Compact Track Loader Models T140, T180, T190, T250, T300, T320, T550, T590, T630, T650, T750, T770, T870, Skid Steer Loader Models S130, S150, S160, S175, S185, S205, S220, S250, S300, S330, S530, S550, S570, S590, S630, S650, S750, S770, S850, Telehandler Models T2250, Utility Vehicle Models 5600, 5610.
<b>BOBCAT</b>		
 <b>6962168</b> 12-VOLT, 40-AMP, CW, IR/IF, V1 PULLEY		<b>BOBCAT</b> Loader Backhoe Models B200, B250.
<b>BOBCAT</b>		
 <b>6988705</b> 12-VOLT, 95-AMP, CW, IR/EF	6681357, 5411663461	<b>BOBCAT</b> Skid Steer Loader Model TL470 HF. Compact Excavator Model 442.

	Part Number	Replaces	Used On
<b>BOMAG</b>			
	<b>05716758</b> 14-VOLT, 80-AMP, CW, IR, DUST PROOF		<b>BOMAG</b> machinery with <b>DEUTZ</b> Engine Models BF4L2011, F4L2011, BF4L1011FT, BF4L1011, TCD2011 L04, TD2011 L04i, F3L1011, F3L1011F, F4L1011, D2011 L02, D2011 L03i, BF4M2011 L04W, TCD2011 L04W
<b>BOMAG</b>			
	<b>05716778</b> 12-VOLT, 60-AMP, CW, IR/EF		<b>BOMAG</b> machinery with <b>DEUTZ</b> Engine Models F4L2011, F4L1011F, F3L1011F, D2011L02, D2011L03i, TD2011L04i, F4M1011F or BF4M1011F
<b>BOMAG</b>			
	<b>05717201</b> 12-VOLT, 95-AMP, CW, IR/EF	057-172-01, 057 172 01	<b>BOMAG</b> Drum Vibratory Roller Models BW 151 AD-4.
<b>BOMAG</b>			
	<b>5910960</b> 14-VOLT, 55-AMP, IR/EF, DUST PROOF	05710960	<b>BOMAG</b> machinery with <b>DEUTZ</b> Engine Models F2L912, F3L912, F3L913, F4L912, F4L913, F5L912, F6L912, F6L913, BF4L913, BF4L913T, BF6L913, BF6L913T, 3-172D, 3-187D, 4-230D, 4-249D, 6-584, D2011 L4, D2011 L3, BF4M2011, F3L D914-L03, F3M2011, BF3M1011F, TCD2011 L04
<b>BOSCH</b>			
	<b>0-120-469-798</b> 24-VOLT, 60-AMP, CW, IR/EF	0-120-469-014, 0-986-034-370, 0-120- 469-798	<b>VOLVO</b> Engine Models TD12KFE, TD40GA, TD40GFE, TD45B, TD61GB, TD61GD, TD61GL, TD63KDE, TD71G, TD71K, TD73KCE, TD73KDE, TD73KFE, TD102GB, TD102GC, TD102KH, TD103KBE, TD103KCE, TD122GA, TD122KAC, TD122KHE, and TD122KLE
<b>BOSCH</b>			
	<b>0-120-488-293</b> 12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY	0-120-488-208	<b>CUMMINS</b> 4B 3.9L, 6BT, 6T-590, 4-390, 4T-390 Engines.







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	Part Number	Replaces	Used On
<b>BOSCH</b> 	<b>0-124-315-042</b>	AL5057N, AL5057X, 0-124-315-030	<b>JOHN DEERE</b> Engine Models 4024HF297, 4024HLV11, 4024HT011, 4024TLV03, 4024TLV04, 4024TLV06, 4024TLV07, 4024TLV08, 4024TLV09, 4024TLV10, 4024TT001, 4024TT002, 4024TT003, 4024TT012, 4024TLV01, 4024TLV02, 4045DP057, 4045TP079, 5030TT001, 5030TT002, 5030TT003, 5030HF286, 5030HLV11, 5030HT011, 5030HT012 and <b>YANMAR</b> Engine Models 4TNV86CHT, 4TNV94CHT, 4TNV98CT, and 4TNV98T
	12-VOLT, 70-AMP, CW, IR/IF		
<b>BOSCH</b> 	<b>0-986-035-411</b>	0986035411	<b>ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON</b> TRACTORS (1978-1992), <b>ISUZU NISSAN, TAKEUCHI, TCM</b> FORKLIFTS and Equipment, 1982-ON.
	12-VOLT, 35-AMP, CW, IR/EF		
<b>BOSCH</b> 	<b>AL593X</b>		<b>DAEWOO</b> Engine Models DC24, DB33, DB33A, <b>HERCULES</b> 1600 - 2.7 L Engines
	12-VOLT, 65-AMP, IR/EF		
<b>CASE</b> 	<b>133745A1</b>	125564A1	<b>CASE</b> Trencher Models 460 with <b>KUBOTA</b> V1505-B (1994-2001), <b>CASE</b> UNI-Loader 1825B with <b>KUBOTA</b> Engine (1997-1999), <b>CASE</b> Skid Steer Model 1838 (1995-1999)
	12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY		
<b>CASE</b> 	<b>683594C91</b>	104257A1, A49652, L114250, L72955	<b>CASE</b> machinery with <b>CUMMINS</b> Diesel Engine Models V-504, K Series, L Series, V Series, NTC-855, N14, M11, 6-509, 504
	24-VOLT, 65-AMP, 27SI, BI, IR/EF		

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	Part Number	Replaces	Used On
<b>CASE</b> 	<b>84416587</b>	84416587R, 84254289	<b>CASE</b> Loader Backhoe Models 580N, 580SN, 580SN WT, 590SN, 590SN Tier 4A, 580N Tier 4A, 580SN WT Tier 4A, 580SN Tier 4A. Rough Terrain Forklift Models 586H Tier 4A, 588H Tier 4A. Landscaper Loader Model 570NXT Tier 4A.
	12-VOLT, 120-AMP, CW, IR/EF		
<b>CASE</b> 	<b>87042117</b>	87038475, 84230294	<b>CASE</b> Skid Steer Loader Models 420 Tier III, 430, 430 Series III, 435, 435 Tier III, 440, 440 Series III, 445, 445 Tier III, 450, 465, Compact Track Loader Models 420CT Series III, 440CT, 440CT Series III, 445CT, 445CT Tier III, 450CT.
	12-VOLT, 95-AMP, CW, IR/IF		
<b>CASE</b> 	<b>A187873</b>	86537977, 86577814, 87020406, A186125, AR187873	<b>CASE</b> New Holland Models 1150E, 1150H, 1155E, 1550, 1818, 1835C, 1840, 1845C, 360, 40XT, 450C, 455C, 480E, 480E LL, 480F, 480F LL, 550, 550E, 550G, 550H, 560, 570LXT, 570LXT Series II, 570MXT, 580K, 580L, 580L Series II, 580M, 580SE, 580SK, 580SL, 580SL Series II, 580SM, 584E, 585E, 585G, 586E, 586G, 588G, 590 TURBO, 590L, 590SL, 590SL Series II, 590SM, 60XT, 621, 650, 650G, 650H, 650K Series II, 650K Series III, 660, 680L, 686G, 686G Series II, 686GXR Series II, 688G, 70XT, 721, 750H, 750K, 750K Series II, 750K Series III, 75XT, 760, 780D, 821, 850D, 850H, 850K, 850K Series II, 850K Series III, 855D, 85XT, 860, 90XT, 921, 95XT, 960, W11B
	12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY		
<b>CASE</b> 	<b>VA30A6800801</b>		<b>CASE</b> Compact Excavator Model CX17B
	12-VOLT, 40-AMP, CW, IR/IF		
<b>CASE</b> 	<b>VV12942377200</b>		<b>CASE</b> Compact Excavator Model CX27B
	12-VOLT, 40-AMP, CW, IR/IF		









	Part Number	Replaces	Used On
	<b>CATERPILLAR</b>		
	<b>132-2156</b> 24-VOLT, 70-AMP, CW, IR/EF	107-7977	<b>CATERPILLAR (CAT)</b> Compactor Models 815F, 816F, 816F Landfill, 825, 825G Series II Soil, and 825G Soil, Excavator Models 320B, 320B L, 320B LN, 320B N, 320B S, 325B L, 325B LN, 345B, 345B L, 345B LC, Grader Model 16H
	<b>CATERPILLAR</b>		
	<b>149-2061</b> 12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY	3E7285, 3E8295	<b>CATERPILLAR (CAT)</b> Backhoe Loader Models 416, 426B, 428, 436, Forklift Models T40E, T50E, TC60E
	<b>CATERPILLAR</b>		
	<b>225-3141</b> 12-VOLT, 85-AMP, CW, IR/IF	225-3144, 349-1369, 383-2556	<b>CATERPILLAR (CAT)</b> Backhoe Loader Models 414E, 416E, 422E, Skid Steer Models 226B, 232B, 242B, 247B, 257B, Engine Models 3024, 3024C.
	<b>CATERPILLAR</b>		
	<b>6P1395</b> 24-VOLT, 35-AMP, BI, IR/EF	6T1395, OR3653, OR3653, 7T2095	<b>CATERPILLAR (CAT)</b> Generator Model SR4, Engine-Generator Set Models 3114, 3306B, 3304, 3208, G3306, XQG135, 3304B, 3316, 3306, Petroleum Products Models G3306B, Engine-Industrial Models 3306, 3304, 3208, G3306, 3126, D330C, D333C, G3306B, 3116, G3304B, 3114, G3304, G342C.
	<b>CONDOR</b>		
	<b>38719-111</b> 12-VOLT, 60-AMP, CW, IR/EF	C38719-111	<b>CONDOR</b> machinery with <b>DEUTZ</b> Engine Models F4L2011, F4L1011F, F3L1011F, D2011L02, D2011L03i, TD2011L04i, F4M1011F or BF4M1011F
	<b>CONDOR</b>		
	<b>81868-103</b> 12-VOLT, 95-AMP, CW, IR/IF	C81868-103	<b>CONDOR</b> machinery with <b>FORD</b> LRG-423 Engines







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Part Number	Replaces	Used On
<b>CUMMINS</b>		
 <b>3920618</b> 24-VOLT, 65-AMP, 27SI, BI, IR/EF	214169, 3603853RX	<b>CUMMINS</b> Diesel Engine Models V-504, K Series, L Series, V Series, NTC-855, N14, M11, 6-509, 504
<b>CUMMINS</b>		
 <b>3920679</b> 12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY	3604448RX	<b>CUMMINS</b> Engine Models 4B 3.9L Engines, 6BT, 6T-590, 4-390, 4T-390
<b>CUMMINS</b>		
 <b>3935530</b> 24-VOLT, 70-AMP, CW, IR/EF	3675174RX, 3675201RX, 3920617	<b>CUMMINS</b> QSB4.5T, K Series, B3-9C, B5-9C, C8-3C, L10, M11, M11C Engines
<b>CUMMINS</b>		
 <b>3972729</b> 12-VOLT, 70-AMP, CW, IR/IF	4988274, 5293586	<b>CUMMINS</b> B Series Engines
<b>CUMMINS</b>		
 <b>3972730</b> 12-VOLT, 95-AMP, CW, IR/IF		<b>CUMMINS</b> B3.9 TIER 1, <b>CASE</b> 432T/M3 Diesel, 445T/M3 Diesel, 445T/M2 Diesel, 3.4L 3cyl 78HP Diesel, 4.5L 4cyl 80HP Diesel, 334T Diesel, 334M2 3.4L 63HP Diesel, 334TM2 3.4L 78HP Turbo Diesel, 445M2 4.5L 80HP Diesel engines.
<b>CUMMINS</b>		
 <b>C6008611951</b> 12-VOLT, 120-AMP, CW, IR/IF		<b>CUMMINS</b> B3.3 Engine

	Part Number	Replaces	Used On
<b>DAEWOO</b>			
	<b>D167411</b> 12-VOLT, 65-AMP, IR/EF	D1401138	<b>DAEWOO</b> Excavator Models DH50, DH50W, Forklift Models D20-2, D20S, D20S-2, D20S-3, D25-2, D25S, D25S-2 D30S, D30S-2, D30S-3, G15S, G18S, Engine Models DC24, DB33, DB33A, <b>HERCULES</b> 1600 – 2.7 L Engines.
<b>DELCO</b>			
	<b>1101564</b> 12-VOLT, 65-AMP, IR/EF	321-423, 321-426, 321-427, 334-1972, 10463132, 10463135, 10463136, 1101531, 1101563, 1101517	<b>DAEWOO</b> Engine Models DC24, DB33, DB33A, <b>HERCULES</b> 1600 – 2.7 L Engines.
<b>DELCO</b>			
	<b>1105476</b> 24-VOLT, 65-AMP, BI, IR/EF	10459244, 1100077, 1100093, 1100211, 1100274, 1105474, 1105475	<b>CUMMINS</b> Diesel Engine Models V-504, K Series, L Series, V Series, NTC-855, N14, M11, 6-509, 504
<b>DELCO</b>			
	<b>19010199</b> 24-VOLT, 70-AMP, CW, IR/EF	51218, 10459026, 10459461, 10461235, 1117897, 1117900, 19010108, 19010111, 19010182, 19010193, 19010195	<b>CUMMINS</b> QSB4.5T, K Series, B3-9C, B5-9C, C8-3C, L10, M11, M11C Engines
<b>DELCO</b>			
	<b>19020203</b> 12-VOLT, 70-AMP, CW, IR/IF	19020204	<b>CUMMINS</b> B Series Engines
<b>DELCO</b>			
	<b>19020609</b> 12-VOLT, 65-AMP, CW, IR/IF	19020601, 19020600	<b>GM</b> 5.0L 305 ci, 5.7L 350ci, 6.2L 377ci, 7.4L 454ci, 8.2L 502ci Engines






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	Part Number	Replaces	Used On
<b>DELCO</b>			
	<b>8600086</b> 12-VOLT, 95-AMP, CW, IR/IF	8600000, 19020208, 19020207	<b>CUMMINS</b> B3.9 TIER 1, <b>CASE</b> 432T/M3 Diesel, 445T/M3 Diesel, 445T/M2 Diesel, 3.4L 3cyl 78HP Diesel, 4.5L 4cyl 80HP Diesel, 334T Diesel, 334M2 3.4L 63HP Diesel, 334TM2 3.4L 78HP Turbo Diesel, 445M2 4.5L 80HP Diesel engines.
<b>DELCO</b>			
	<b>DRA0409</b> 14-VOLT, 80-AMP, CW, IR, DUST PROOF		<b>DEUTZ</b> Engine Models BF4L2011, F4L2011, BF4L1011FT, BF4L1011, TCD2011 L04, TD2011 L04i, F3L1011, F3L1011F, F4L1011, D2011 L02, D2011 L03i, BF4M2011 L04W, and TCD2011 L04W
<b>DELCO</b>			
	<b>DRB1840</b> 12-VOLT, 95-AMP, CW, IR/EF	DRA1330	<b>DEUTZ</b> Engine Models P3M, D2011 L03i; 3-cyl; 33kW, L2011 L03; 3-cyl; 33kW, BF6M1012, BF6M1012C, BF4M2012C; 73kW, BF4M2012C; 65.5kW, BF4M2012C; 80kW, BF4M2012C, TCD2012 L04; 84kW, 91kW, 99kW, BF4L913; 90HP, 88HP, 100HP, F6L912; 100HP, 90HP, BF6L913; 107HP, 100HP
<b>DENSO</b>			
	<b>100211-4520</b> 12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY	100211-1670, 100211-1671	<b>KUBOTA</b> Engine Models D722E-GX, D782, D905, V1305, V1305B, V1305E, V1505-B, WG590V, WG752
<b>DENSO</b>			
	<b>100211-4730</b> 12-VOLT, 40-AMP, CW, IR/IF, V1 PULLEY	9760218-473	<b>KUBOTA</b> Engine Models D1105, D1105T, V1505, DF972, DF972 EFI.
<b>DENSO</b>			
	<b>101211-1170</b> 12-VOLT, 40-AMP, CW, IR/IF	5-86400-240-0, 5-86400-2400, 586400-2400, 9761219-117	<b>YANMAR</b> Engine Models 3TNM72, 3TNV76, 3TNV82, 3TNV88, 4TNE84, 4TNE88

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	Part Number	Replaces	Used On
<b>DENSO</b> 	<b>101211-1380</b> 12-VOLT, 40-AMP, CW, IR/IF		<b>YANMAR</b> Engine Models 3TNV-70, 3TNE-88-TB, and 4TNE-88-TB
<b>DENSO</b> 	<b>101211-8770</b> 12-VOLT, 55-AMP, CW, IR/IF	101211-8771	<b>KUBOTA</b> Engine Models D902E-UV 21.6HP, D902-E3-UV 21.6HP, <b>D902-E4-UV 21.6HP</b> , <b>D1105-E4-UV 24.8HP</b>
<b>DENSO</b> 	<b>102211-0830</b> 12-VOLT, 120-AMP, CW, IR/IF		<b>CUMMINS</b> B3.3 Engine, <b>KOMATSU</b> 4D95L Engine
<b>DENSO</b> 	<b>102211-1180</b> 12-VOLT, 90-AMP, CW, IR/IF		<b>JOHN DEERE</b> Engine Models 6081afm01 8.1L 496ci 6cyl, 6081afm75 8.1L 496ci 6cyl, 6125afm01 12.5L 766ci 6cyl, 6125afm75 12.5L 763ci 6cyl and 6125sfm75 12.5L 766ci 6cyl.
<b>DENSO</b> 	<b>102211-3291</b> 12-VOLT, 95-AMP, CW, IR/IF		<b>CASE</b> Engine Models 432T/M3 Diesel, 445T/M3 Diesel, 445T/M2 Diesel, <b>CUMMINS</b> B3.9 TIER 1, <b>CASE</b> 432T/M3 Diesel, 445T/M3 Diesel, 445T/M2 Diesel, 3.4L 3cyl 78HP Diesel, 4.5L 4cyl 80HP Diesel, 334T Diesel, 334M2 3.4L 63HP Diesel, 334TM2 3.4L 78HP Turbo Diesel, 445M2 4.5L 80HP Diesel engines.
<b>DENSO</b> 	<b>102211-8180</b> 12-VOLT, 85-AMP, CW, IR/IF	102211-8170, 102211-8121, 102211-8120, 101210-1570	<b>CATERPILLAR (CAT)</b> 3024, 3024C Engine, <b>PERKINS</b> Engine Models 1104D-44TA, 1006 TAG, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44TA, 1104C 44T, 1104D-44T, 1004 40T, 1004 42, 404 D-22

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	Part Number	Replaces	Used On
<b>DENSO</b> 	<b>210-5210</b>	210-5199, 210-5203	<b>FORD</b> LRG-423 Engines
	12-VOLT, 95-AMP, CW, IR/IF		
<b>DENSO</b> 	<b>210-9000</b>	211-9000	<b>ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON</b> TRACTORS (1978-1992), <b>ISUZU NISSAN, TAKEUCHI, TCM</b> FORKLIFTS and Equipment, 1982-ON.
	12-VOLT, 35-AMP, CW, IR/EF		
<b>DEUTZ</b> 	<b>04103905</b>	01180640, 01180648, 01180650, 01180660, 01182105, 01182434, 01183858, 01183905	<b>DEUTZ</b> Engine Models F4L2011, F4L1011F, F3L1011F, D2011L02, D2011L03i, TD2011L04i, F4M1011F and BF4M1011F
	12-VOLT, 60-AMP, CW, IR/EF		
<b>DEUTZ</b> 	<b>04103907</b>	01179896, 01180649, 01180661, 01182107, 01182436, 01183860, 01183907	<b>DEUTZ</b> Engine Models BF4L2011, F4L2011, BF4L1011FT, BF4L1011, TCD2011 L04, TD2011 L04i, F3L1011, F3L1011F, F4L1011, D2011 L02, D2011 L03i, BF4M2011 L04W, and TCD2011 L04W
	14-VOLT, 80-AMP, CW, IR, DUST PROOF		
<b>DEUTZ</b> 	<b>1178521</b>	1183447, 118-3852, 118-3447, 1178299, 1175731, 117-8521, 117-8299, 117-5731, 01183852, 01183447, 01178521, 01178299, 01175731	<b>DEUTZ</b> Engine Models F2L511, F2L912, F3L912, F3L913, F4L912, F4L913, BF4L913T, BF4L913, BF4M1011F, F5L912, F6L912, F6L913.
	12-VOLT, 65-AMP, CW, IR/EF		
<b>DEUTZ</b> 	<b>1183852</b>	1183638, 1183447, 1182151, 118-3852, 118-3638, 118-3447, 118-2151, 1178606, 1178299, 1175731, 117-8606, 117-8521, 117-8299, 117-5731, 01183852, 01183638, 01183447, 01182151, 01178606, 01178521, 01178299, 01175731	<b>DEUTZ</b> Engine Models F2L912, F3L912, F3L913, F4L912, F4L913, F5L912, F6L912, F6L913, BF4L913, BF4L913T, BF6L913, BF6L913T, 3-172D, 3-187D, 4-230D, 4-249D, 6-584, D2011 L4, D2011 L3, BF4M2011, F3L D914-L03, F3M2011, BF3M1011F, TCD2011 L04.
	14-VOLT, 55-AMP, IR/EF, DUST PROOF		

	Part Number	Replaces	Used On
<b>DEUTZ</b> 	<b>4191523</b>	1183844, 1183630, 1182961, 1182436, 1182173, 118 2961, 1178607, 117-8607, 117-7063, 04191523, 0419 1523, 02484001, 01183844, 01183630, 01183455, 01182961, 01182173, 0118 3844, 0118 3630, 0118 2961, 0118 2173, 01178607, 01177063, 0117 7063	<b>DEUTZ</b> Engine Models P3M, D2011 L03i; 3-cyl; 33kW, L2011 L03; 3-cyl; 33kW, BF6M1012, BF6M1012C, BF4M2012C; 73kW, BF4M2012C; 65,5kW, BF4M2012C; 80kW, BF4M2012C, TCD2012 L04; 84kW,91kW,99kW, BF4L913; 90HP, 88HP, 100HP, F6L912;100HP,90HP, BF6L913; 107HP,100HP.
	12-VOLT, 95-AMP, CW, IR/EF		
<b>DOOSAN</b> 	<b>36888170</b>		<b>DOOSAN</b> Portable Power Equipment with <b>KUBOTA</b> Engines
	12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY		
<b>FORD</b> 	<b>E7NN-10B376-BB</b>	E7NN-10B376-AB, E7NN-10B376-AA, E7NN10B376AA, E7NN10B376AB, E7NN10B376BB	<b>CATERPILLAR (CAT)</b> 3024, 3024C Engine, <b>PERKINS</b> Engine Models 1104D-44TA, 1006 TAG, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44TA, 1104C 44T, 1104D-44T, 1004 40T, 1004 42, 404 D-22
	12-VOLT, 85-AMP, CW, IR/IF		
<b>FORD</b> 	<b>F7CU-10300-AB</b>	F17U-10300-AA, F67U10300-BA, F77U-10300-AB, F7CU-10300-AB	<b>FORD</b> LRG-423 Engines
	12-VOLT, 95-AMP, CW, IR/IF		
<b>GEHL</b> 	<b>121960</b>		<b>GEHL</b> Skid Steer Model SL3825 with <b>KUBOTA</b> V1305E
	12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY		
<b>GEHL</b> 	<b>132300</b>		<b>GEHL</b> Skid Steer Models 6635 DXT, 6635 SXT, SL5635, SL5635 DXT, SL5635 SXT, and SL5636 DXT
	12-VOLT, 60-AMP, CW, IR/EF		

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	Part Number	Replaces	Used On
<b>GENIE</b> 	<b>07.0501.0001GT</b>	070501.0001	<b>GENIE</b> Telehandler Models AGRI-625, AGRI-730, GTH-2506, GTH-3007, GTH-5519.
	12-VOLT, 95-AMP, CW, IR/EF		
<b>GENIE</b> 	<b>33960GT</b>	33960, GN33960	<b>GENIE</b> Scissor Lift Models GS-3384, GS-3390, GS-4390, and GS-5390, Boom Lift Models S-40, S-45, S-60, S-65, S-80, S-85, Z-45/22 IC, Z-45/25 IC, Z-45/25J (Jib) IC, Z-60/34, and Z-80/60.
	12-VOLT, 95-AMP, CW, IR/IF		
<b>GENIE</b> 	<b>35586GT</b>	35586, 35586GN	<b>GENIE</b> Rough Terrain Scissor Lifts Models GS-3384, GS-3390, GS-4390, and GS-5390, Boom Lift Models S-40, S-45, S-60, S-65, S-80, S-85, Z-45 XC, Z-45/22 IC, Z-45/25 IC, Z-45/25J IC, Z-51/30J, Z-60/34, Z-62/40
	12-VOLT, 60-AMP, CW, IR/EF		
<b>GENIE</b> 	<b>58249GT</b>	58249, 58249GN	<b>GENIE</b> Boom Lift Models S-100, S-100HD, S-105, S-120, S-120HD, S-125, S-3200, S-3800, S-60, S-65, S-80, S-80 XC, and S-85, Telescopic Boom Lift Models SX-105 XC, SX-125 XC, SX-135 XC, SX-150, and SX-180, Articulating Boom Lift Models Z-135/70, Z-80/60, ZX-135/70
	14-VOLT, 80-AMP, CW, IR, DUST PROOF		
<b>GENIE</b> 	<b>75393GT</b>	75393	<b>GENIE</b> Telehandler Model GTH-5519, GTH-6622, Articulating Boom Lift Models Z-80/60, Telescopic Boom Lift Models S-100, S-105, S-120, S-125, S-80, S-85.
	14-VOLT, 55-AMP, IR/EF, DUST PROOF		
<b>GENIE</b> 	<b>866090GT</b>	866090	<b>GENIE</b> Light Tower Models AL4, AL4000D2, AL4L, AL5, AL5000, AL5HT, AL5L, AL8000HT, RL4, RL4000, RL4000D, and TML-4000, Rough Terrain Scissor Lift Model GS-2668RT, Articulating Boom Lift Models Z-34/22 IC, and Z-45/22 MP
	12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY		






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Part Number	Replaces	Used On
<b>GRADALL (JLG)</b>		
 <b>7029525</b> 12-VOLT, 95-AMP, CW, IR/IF		GRADALL Telehandler Models 534D-10, 534D-9, 544D
<b>HITACHI</b>		
 <b>LR1110-735C</b> 12-VOLT, 110-AMP, IR/IF, CW	LR1110-735, LR1110-735B	ISUZU 3.9L 4HK1 and ISUZU 3.9L - 4BD1 Diesel Engine Applications
<b>HITACHI</b>		
 <b>LR135-115</b> 12-VOLT, 35-AMP, CW, IR/EF	135-116, LR135-124, LR135-127, LR135-58B, LR135-86, LR135-86C, LR135-86F, LR135-95, LR135-95B, LR135-95BN	ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON TRACTORS (1978-1992), ISUZU NISSAN, TAKEUCHI, TCM FORKLIFTS and Equipment, 1982-ON.
<b>INGERSOLL RAND</b>		
 <b>13503966</b> 12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY	13502851, 58908401, 59106435	INGERSOLL RAND Rough Terrain Forklift Models RT-706J, RT-708J, Tow Tractor Model T-708J, Telehandler Models VR-636, VR-642, VR-843 effective with s/n 169631, excluding 168886, VR-1044, VR-1056, Compressor Models 125CFM, 375, P 185 Neptune, P 185 Platinum, P 250 Neptune and Omega, Generator Models 70KVA PRIME, G50, G70, G80, G90, G115 and G375
<b>ISUZU</b>		
 <b>5812003381</b> 12-VOLT, 35-AMP, CW, IR/EF	5812003410, 5812003411, 8944237560	ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON TRACTORS (1978-1992), ISUZU NISSAN, TAKEUCHI, TCM FORKLIFTS and Equipment, 1982-ON.
<b>IVECO</b>		
 <b>1177063</b> 12-VOLT, 95-AMP, CW, IR/EF	42498275, 42522743	IVECO Tractor Models 110, 110-16, 130, 75/80, 80, 80/90, 90.






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	Part Number	Replaces	Used On
<b>JCB</b> 	<b>714/32200</b>	714/22500, 714/40152, 714/40153, 714/40154, 714/40155, 71440154	<b>JCB</b> Tractor Model 1135, Telehandler Models 525-58, 525-67, 540, 540 FS Plus, Skid Steer Loader Models 135, 155, 185, Crawler Excavator Model 145, Backhoe Loader Models 4CX444 Super, 4CN444 Super, 4CXSM444, 4CX444, 4C, 4CN-4WS PC, 3CX
	12-VOLT, 85-AMP, CW, IR/IF		
<b>JLG</b> 	<b>70004056</b>	7000663, 7016329, 7020410	<b>JLG</b> Articulating Boom Lift Models 450A, 450A Series II, 450AJ, 450AJ Series II, 510AJ, 600A, 600AJ, 740AJ, 800A, 800AJ. Telescopic Boom Lift Models 18RS, 18RSJ, 24RS, 24RJS, 40H, 40H+6, 60H, 60H+6, 70H, 80H, 80HX, 80HX+6, 86HX, 100SX, 110SX, 110SXJ, 120SXJ, 120HX, 400S, 460SJ, 600SC, 601S, 660SJ, 800S, 860SJ. Rough Terrain Scissor Lift Models 3394RT, 4394RT
	12-VOLT, 65-AMP, CW, IR/EF		
<b>JLG</b> 	<b>70005137</b>	7027993	<b>JLG</b> Models with <b>GM</b> 5.0L 305 ci, 5.7L 350ci, 6.2L 377ci, 7.4L 454ci, 8.2L 502ci Engines
	12-VOLT, 65-AMP, CW, IR/IF		
<b>JLG</b> 	<b>7000872</b>	70001867	<b>JLG</b> Telescopic Boom Lift Models 40H, 40H +6, 60H, 60H +6, 70H, 100SX, 110SX, 110SXJ, 100HX, 110HX, 110HXER, 100HX +6, 120HX, 1030S, 1100SJ, 1200SJP, 1250SJP, 1350SJP, 1500SJ.
	12-VOLT, 95-AMP, CW, IR/EF		
<b>JLG</b> 	<b>7000897</b>	70023287	<b>JLG</b> Articulating Boom Lift Models 450A, 450A Series II, 450AJ, 450AJ Series II, 740AJ, 600A, 600AJ, 800A, 800AJ. Telescopic Boom Lift Models 400S, 460SJ, 600S, 600SJ, 601S, 660SJ, 800S, 860SJ.
	12-VOLT, 70-AMP, CW, IR/IF		

	Part Number	Replaces	Used On
<b>JLG</b> 	<b>70021849</b>		JLG Telehandler Models G6-42A, G9-43A, G10-43A
	12-VOLT, 120-AMP, CW, IR/IF		
<b>JLG</b> 	<b>7017955</b>		JLG Rough Terrain Scissor Lift Models 260MRT and 530LRT, JLG Boom Lift Model 340AJ
	12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY		
<b>JLG</b> 	<b>7019977</b>	7012680	JLG Boom Lift Models 100HX, 100HX+6, 100SX, 110HX, 110HXER, 110SX, 110SXJ, 120SXJ, 40H, 40H+6, 70H, 60H, 60H+, 80H, 80HX, 80HX+6, and 86HX, Rough Terrain Scissor Lift Models 3394RT, 400RTS, 500RTS, 4394RT, Articulating Boom Lift Models 450A Series II, 450A, 450AJ Series II, 450AJ, 600A, 600AJ, 800A, 800AJ, and 740AJ, Telescopic Boom Lift Models 400S, 460SJ, 600S, 600SJ, 601S, 660SJ, 800S, and 860SJ
	12-VOLT, 95-AMP, CW, IR/IF		
<b>JLG</b> 	<b>7026922</b>		JLG Telehandler Models G10-55A and G12-55A
	12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY		
<b>JLG</b> 	<b>7029525</b>		JLG Telehandler Models 534D-10, 543D-9, 544D
	12-VOLT, 95-AMP, CW, IR/IF		

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Part Number	Replaces	Used On
<b>JOHN DEERE</b>		
 <b>AL3846201</b> 12-VOLT, 95-AMP, CW, IR/EF	AZ3846201	JOHN DEERE machinery
<b>JOHN DEERE</b>		
 <b>AM879908</b> 12-VOLT, 40-AMP, CW, IR/IF	LVA12357, TY25243	JOHN DEERE Compact Excavator Models 27D, Utility Tractor Models 110TLB, 1023E, 1025R, 3032E, 3038E, 3120, 3320, 3520, 3720, 4105, 4200, 4210, 4300/4310
<b>JOHN DEERE</b>		
 <b>RE500227</b> 12-VOLT, 90-AMP, CW, IR/IF	SE01836	JOHN DEERE Engine Models 6081afm01 8.1L 496ci 6cyl, 6081afm75 8.1L 496ci 6cyl, 6125afm01 12.5L 766ci 6cyl, 6125afm75 12.5L 763ci 6cyl and 6125sfm75 12.5L 766ci 6cyl.
<b>JOHN DEERE</b>		
 <b>RE509106</b> 12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY	AT173624, RE533516, SE501387, SE501835, SE502626	JOHN DEERE Backhoe Loader Models 300D, 310D, 310E, 310G, 310SE, 310SG, 310J, 310SJ, 310K, 310L, 310SL, 315D, 315SE, 315SG, 360D, 410D, 410E, 410G, 410K, 410SK, 450G, 455G, 460D, 485E, 486E, 488E, 510D, 540G, 548G, 550G, 555G, 560D, 640G, 648G, 650G, 710D, 710G, 710K, 740G, 748G, Combine Model 1144, Crawler Models 450G, 450H(4045T), 650H, 650LGP, 650LT(4045).
<b>JOHN DEERE</b>		
 <b>RE529377</b> 12-VOLT, 70-AMP, CW, IR/IF	RE509648, SE501831	JOHN DEERE Skid Steer Models 313, 315, 316GR, 317, 317G, 318D, 318E, 319D, 319E, 320, 320D, 320E, 323D, 323E, 324E, 325, 326D, 326E, 328, 329D, 329E, 332, 332D, 332E, 333D, Tractor Models 4120, 4320, 4520, 4720, 5065M, 5075M, 5085M, 5093E, 5095M, 5105M, 5225, 5325, 5415 NARROW, 5415, 5425, 5425N, 5525, 5525N, 5615, 5625, 5715, and 5725N, Loader Models 244J, 304J, and 324J with JOHN DEERE 4024, 4045, 5030 and YANMAR 4TNV series Engines

	Part Number	Replaces	Used On
<b>KOMATSU</b>			
	<b>1305787H91</b> 24-VOLT, 70-AMP, CW, IR/EF	ALT1022, 1307-203-H1, 1307203H1	<b>CUMMINS</b> QSB4.5T, K Series, B3-9C, B5-9C, C8-3C, L10, M11, M11C Engines
<b>KOMATSU</b>			
	<b>600-861-1951</b> 12-VOLT, 120-AMP, CW, IR/IF	6008611951	<b>CUMMINS</b> B3.3 Engine, <b>KOMATSU</b> 4D95L Engine
<b>KUBOTA</b>			
	<b>16678-64012</b> 12-VOLT, 40-AMP, CW, IR/IF, V1 PULLEY	16678-64011	<b>KUBOTA</b> Engine Models D1105, D1105T, V1505, DF972, DF972 EFI.
<b>KUBOTA</b>			
	<b>66436-64013</b> 12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY	16231-24011, 16231-64012, 16241-64012, 66436-64011, 66436-64012	<b>KUBOTA</b> Engine Models D722E-GX, D782, V1305, V1305B, V1305E, V1505-B, WG590V, WG752
<b>KUBOTA</b>			
	<b>K7561-61913</b> 12-VOLT, 55-AMP, CW, IR/IF	K7561-61912, K7561-61911, K7561-61910	<b>KUBOTA</b> Engine Models D902E-UV 21.6HP, D902-E3-UV 21.6HP, D902-E4-UV 21.6HP, <b>D1105-E4-UV 24.8HP</b>
<b>LUCAS</b>			
	<b>A1840</b> 12-VOLT, 65-AMP, IR/EF		<b>DAEWOO</b> Engine Models DC24, DB33, DB33A, and <b>HERCULES</b> 1600 – 2.7 L Engines.

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## Part Number

## Replaces

## Used On

### LUCAS



**LRA01191**

12-VOLT, 35-AMP, CW, IR/EF

ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON TRACTORS (1978-1992), ISUZU NISSAN, TAKEUCHI, TCM FORKLIFTS and Equipment, 1982-ON.

### LULL



**7026922**

12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY

LULL Telehandler Model 1044C-54 Series II

### LULL



**7029525**

12-VOLT, 95-AMP, CW, IR/IF

LULL Telehandler Models 644B-37, 644B-42, 644E-42, 944E-42, 6K-37, 6K-42, 8K-42, 844C-42, 1044C-42, 1044C-54, 10K-42, 10K-54

### MAGNUM



**16743**

12-VOLT, 40-AMP, CW, IR/IF

MAGNUM Light Tower Models with MITSUBISHI Engine Models L2A L2A-61DM, L2A L2A-61SS, L2A L2A-62SS, L2E L2E-61DM, L2E L2E-61SA, L2E L2E-61SS, L2E L2E-61TM, and L2E L2E-62SS

### MAHLE-LETRIKA



**IA0595**

12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY

IA 0595, MG279, MG 279, AAK1363, 11.201.935

INGERSOLL RAND (IR), JOHN DEERE, CASE, SUPERPAC, LULL, JLG, SKYTRAK, CATERPILLAR (CAT) CUMMINS 4B 3.9L, 6BT, 6T-590, 4-390, 4T-390 Engines.

### MAHLE-LETRIKA




**IA0226**

12-VOLT, 65-AMP, CW, IR/EF

IA 0226, MG 653, MG653, AAK1189, 11.201.226

DEUTZ Engine Models F2L511, F2L912, F3L912, F3L913, F4L912, F4L913, BF4L913T, BF4L913, BF4M1011F, F5L912, F6L912, F6L913

Part Number	Replaces	Used On
<b>MAHLE-LETRIKA</b>  <b>IA0292</b> 12-VOLT, 60-AMP, CW, IR/EF	MG 111, MG111, IA 0292, AAK2301, 11.201.292	DEUTZ Engine Models F4L2011, F4L1011F, F3L1011F, D2011L02, D2011L03i, TD2011L04i, F4M1011F and BF4M1011F
<b>MAHLE-LETRIKA</b>  <b>IA0484</b> 14-VOLT, 80-AMP, CW, IR, DUST PROOF	MG607	DEUTZ Engine Models BF4L2011, F4L2011, BF4L1011FT, BF4L1011, TCD2011 L04, TD2011 L04i, F3L1011, F3L1011F, F4L1011, D2011 L02, D2011 L03i, BF4M2011 L04W, and TCD2011 L04W
<b>MAHLE-LETRIKA</b>  <b>IA1078</b> 14-VOLT, 55-AMP, IR/EF, DUST PROOF	IA 1078, MG209	DEUTZ Engine Models F2L912, F3L912, F3L913, F4L912, F4L913, F5L912, F6L912, F6L913, BF4L913, BF4L913T, BF6L913, BF6L913T, 3-172D, 3-187D, 4-230D, 4-249D, 6-584, D2011 L4, D2011 L3, BF4M2011, F3L D914-L03, F3M2011, BF3M1011F, TCD2011 L04.
<b>MAHLE-LETRIKA</b>  <b>IA1081</b> 12-VOLT, 95-AMP, CW, IR/EF	IA 1081, AAK4320, 11.203.331, 11203331, MG 314, MG314	DEUTZ Engine Models P3M, D2011 L03i; 3-cyl; 33kW, L2011 L03; 3-cyl; 33kW, BF6M1012, BF6M1012C, BF4M2012C; 73kW, BF4M2012C; 65,5kW, BF4M2012C; 80kW, BF4M2012C, TCD2012 L04; 84kW,91kW,99kW, BF4L913; 90HP, 88HP, 100HP, F6L912;100HP;90HP, BF6L913; 107HP;100HP.
<b>MAHLE-LETRIKA</b>  <b>IA1204</b> 12-VOLT, 85-AMP, CW, IR/IF	IA 1204, MG560, MG 560	CATERPILLAR (CAT) 3024, 3024C Engine, PERKINS Engine Models 1104D-44TA, 1006 TAG, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44TA, 1104C 44T, 1104D-44T, 1004 40T, 1004 42, 404 D-22
<b>MAHLE-LETRIKA</b>  <b>IA1452</b> 12-VOLT, 120-AMP, CW, IR/EF	IA 1452, MG274, MG691, 11.204.352, 11.204.060	CASE Loader Backhoe Models 580N, 580SN, 580SN WT, 590SN, 590SN Tier 4A, 580N Tier 4A, 580SN WT Tier 4A, 580SN Tier 4A. Rough Terrain Forklift Models 586H Tier 4A, 588H Tier 4A. Landscaper Loader Model 570NXT Tier 4A.

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## Part Number

## Replaces

## Used On

### MAHLE-LETRIKA



**IA1528**

12-VOLT, 70-AMP, CW, IR/IF

MG 471

**JOHN DEERE** Engine Models 4024HF297, 4024HLV11, 4024HT011, 4024TLV03, 4024TLV04, 4024TLV06, 4024TLV07, 4024TLV08, 4024TLV09, 4024TLV10, 4024TT001, 4024TT002, 4024TT003, 4024TT012, 4024TLV01, 4024TLV02, 4045DP057, 4045TP079, 5030TT001, 5030TT002, 5030TT003, 5030HF286, 5030HLV11, 5030HT011, 5030HT012 and **YANMAR** Engine Models 4TNV86CHT, 4TNV94CHT, 4TNV98CT, and 4TNV98T

### MINNPAR



**47-1210**

12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY

**BOSCH** 0-120-488-293, **CASE** A186125, A187873, AR187873, 86537977, 86577814, 87020406, **CATERPILLAR** 3E7285, 3E7295, 149-2061, **CUMMINS** 3604448RX, 3920679, **INGERSOLL RAND** 13502851, 13503966, 58908401, 59106435, **JLG** 7026922, **JOHN DEERE** AT173624, RE509106, RE533516, SE501387, SE501835, SE502626, **LULL** 7026922, **MAHLE-LETRIKA** IA0595, MG279, **SKYTRAK** 8270221, **SUPERPAC** 203206, SP203206, **WILSON** 90-01-4330, 90-15-6170, 90-23-6524

**CUMMINS** 4B 3.9L, 6BT, 6T-590, 4-390, 4T-390 Engines.

### MINNPAR



**47-1218**

24-VOLT, 70-AMP, CW, IR/EF

**CATERPILLAR** 107-7977, 132-2156, **CUMMINS** 3675174RX, 3675201RX, 3920617, 3935530, **DELCO** 51218, 10459026, 10459461, 10461235, 1117897, 1117900, 19010108, 19010111, 19010182, 19010193, 19010195, 19010199, **KOMATSU** ALT1022, 1307-203-H1, 1307203H1, 1305787H91, **MINNPAR** 47-1968, **NAPA** 68002, 68003, 68003N, **SKYTRAK** 8270214, **WAI** 1-2291-00DR, 1-2291-00DR-1, 1-2292-00DR, 20-1114, 8003N, **WILSON** 90-01-4073, 90-01-4152, 90-01-4185, 90-01-4334, 90-01-4335

**CUMMINS** QSB4.5T, K Series, B3-9C, B5-9C, C8-3C, L10, M11, M11C Engines

### MINNPAR




**47-1246**

12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY

**CASE** 125564A1, 133745A1, **DENSO** 100211-1670, 100211-1671, 100211-4520, **DOOSAN** 36888170, **GEHL** 121960, **GENIE** 866090, 866090GT, **JLG** 7017955, **KUBOTA** 16231-24011, 16231-64012, 16241-64012, 66436-64011, 66436-64012, 66436-64013, **NAPA** RN12179, 12190N, **WAI** 1-2336-01ND, 1-2476-01ND, **WILSON** 90-29-5340

**KUBOTA** Engine Models D722E-GX, D782, D905, V1305, V1305B, V1305E, V1505-B, WG590V, WG752

Part Number	Replaces	Used On
<b>MINNPAR</b>		
 <b>47-1249</b> 12-VOLT, 90-AMP, CW, IR/IF, W/PULLEY	<b>BOBCAT</b> 6675292, 6678205, 6681857, <b>VALEO</b> TA000A48401, TA000A48402, TA000A63701, <b>WILSON</b> 90-31-7021, <b>MINNPAR</b> A48402, <b>WAI</b> 1-2466-01MD	<b>DEUTZ</b> Engine Model BF4M1011F, <b>PERKINS</b> Engine Models 1004-40T, <b>KUBOTA</b> V1903EB, V2003, V2003MDI, V2003TEB, V2203, V2203EB, V2203MDI, V2403, V2403 MDI, V2607DIT, V3300DI, V3307DIT, V3800T, V3800DIT, V3800DTI.
<b>MINNPAR</b>		
 <b>47-1326</b> 12-VOLT, 95-AMP, CW, IR/EF	<b>MINNPAR</b> 282-549, <b>JLG</b> 7000872, 70001867, <b>GENIE</b> 070501.0001GT, 070501.0001, <b>BOMAG</b> 05717201, 057172-01, <b>BOSCH</b> 0-120-484-001, AL9974X, <b>DEUTZ</b> 4191523, 1183844, 1183630, 1182961, 1182436, 1182173, 1178607, 117-7063, 04191523, 02484001, 01183455, 0118 2173, 01178607, 01177063, 0117 7063, <b>MAHLE-LETRIKA</b> IA1081, IA 1081, AAK4320, 11.203.331, 11203331, MG 314, MG314, <b>STEYR</b> 31100090025, <b>WILSON</b> 90-23-6517, 90-15-6224, <b>MORGEN</b> Products 212-465, <b>IVECO</b> 1177063, 42498275, 42522743, <b>BOBCAT</b> 6988705, 6681357, 5411663461, <b>JOHN DEERE</b> AL3846201, AZ3846201, <b>DELCO</b> DRB1840, DRA1330	<b>DEUTZ</b> Engine Models P3M, D2011 L03i; 3-cyl; 33kW, L2011 L03; 3-cyl; 33kW, BF6M1012, BF6M1012C, BF4M2012C; 73kW, BF4M2012C; 65,5kW, BF4M2012C; 80kW, BF4M2012C, TCD2012 L04; 84kW,91kW,99kW, BF4L913; 90HP, 88HP, 100HP, F6L912;100HP,90HP, BF6L913; 107HP,100HP.
<b>MINNPAR</b>		
 <b>47-1327</b> 24-VOLT, 65-AMP, 27SI, BI, IR/EF	<b>CASE</b> 104257A1, A49652, L114250, L72955, 683594C91, <b>CUMMINS</b> 214169, 3603853RX, 3920618, <b>DELCO</b> 10459244, 1100077, 1100093, 1100211, 1100274, 1105474, 1105475, 1105476, <b>NAPA</b> 13-4059, 67197, RN7197, <b>VOLVO</b> M0214169, 214169, <b>WAI</b> 1-1776-00DR, 7197N, 20-127, <b>WILSON</b> 70-01-7197, 90-01-3100	<b>CUMMINS</b> Diesel Engine Models V-504, K Series, L Series, V Series, NTC-855, N14, M11, 6-509, 504
<b>MINNPAR</b>		
 <b>47-1602</b> 12-VOLT, 65-AMP, CW, IR/EF	<b>MINNPAR</b> 47-1602, 47-4298, <b>JLG</b> 70004056, 7000663, 7016329, 7020410, <b>DEUTZ</b> 1178521, 1183447, 118-3852, 118-3447, 1178299, 1175731, 117-8521, 117-8299, 117-5731, 01183852, 01183447, 01178521, 01178299, 01175731, <b>SUPERPAC</b> SP201874, SP2839, 201874, 2839, <b>MAHLE-LETRIKA</b> (ISKRA) IA0226, IA 0226, <b>WILSON</b> 90-23-6551, 90-15-6299, 90-15-6223	<b>DEUTZ</b> Engine Models F2L511, F2L912, F3L912, F3L913, F4L912, F4L913, BF4L913T, BF4L913, BF4M1011F, F5L912, F6L912, F6L913

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Part Number	Replaces	Used On
<b>MINNPAR</b>		
 <b>47-1974</b> 12-VOLT, 65-AMP, CW, IR/IF	<b>MINNPAR</b> 10-8460, <b>JLG</b> 70005137, 7027993, <b>WILSON</b> 90-01-4422, 70-01-8460, <b>DELCO</b> 19020609, 19020601, 19020600, <b>WAI</b> 1-2485-01DR	<b>GM</b> 5.0L 305 ci, 5.7L 350ci, 6.2L 377ci, 7.4L 454ci, 8.2L 502ci Engines
<b>MINNPAR</b>		
 <b>47-2001</b> 12-VOLT, 95-AMP, CW, IR/IF	<b>CONDOR</b> 81868-103, <b>FORD</b> F17U-10300-AA, F67U10300-BA, F77U-10300-AB, F7CU-10300-AB, <b>GENIE</b> 33960, 33960GT, <b>JLG</b> 7012680, 7019977, <b>NAPA</b> 1N3109, 213-3065, <b>WAI</b> 1-1431-12FD, 20-221-12-1, <b>WILSON</b> 90-02-5060, 90-02-5060N	<b>FORD</b> LRG-423 Engines
<b>MINNPAR</b>		
 <b>47-3106</b> 12-VOLT, 40-AMP, CW, IR/IF, V1 PULLEY	<b>MINNPAR</b> 12202N, <b>BOBCAT</b> 6962168, <b>SKYJACK</b> 136101, 137857, <b>KUBOTA</b> 16678-64012, 16678-64011, <b>DENSO</b> 100211-4730, 9760218-473, <b>WILSON</b> 90-29-5295, 70-29-12202	<b>KUBOTA</b> Engine Models D1105, D1105T, V1505, DF972, DF972 EFI.
<b>MINNPAR</b>		
 <b>47-3524</b> 12-VOLT, 65-AMP, IR/EF	<b>DELCO</b> 1101564, 13216, 321-423, 321-426, 321-427, 334-1972, 10463132, 10463135, 10463136, 1101531, 1101563. <b>WILSON</b> 90-01-4059N, 90-01-4071, 90-01-4059, <b>DAEWOO</b> D167411 and <b>WAI</b> 1-1671-02DR, 1-1671-01DR, 1-1670-01DR, 7929R, 7929N, 7929N-1, 20-183-11, 20-183-11-9.	<b>DAEWOO</b> Engine Models DC24, DB33, DB33A, and <b>HERCULES</b> 1600 – 2.7 L Engines.
<b>MINNPAR</b>		
 <b>47-4644</b> 12-VOLT, 60-AMP, CW, IR/EF	<b>BOMAG</b> 05716778, <b>CONDOR</b> 38719-111, <b>DEUTZ</b> 1180640, 1180648, 1180650, 1180660, 1182105, 1182434, 1183858, 1183905, 4103905, <b>GEHL</b> 132300, <b>GENIE</b> 3586, 35586GN, 35586GT, <b>MAHLE-LETRIKA</b> MG 111, 1A0292, <b>MINNPAR</b> 47-5146, <b>SKYJACK</b> 168365, <b>SUPERPAC</b> SP203427, 203427, <b>VALEO</b> 436491, 436491, 439190, 2541133, 2541659, 2541707A, <b>WILSON</b> 90-20-3519, 90-20-3576	<b>DEUTZ</b> Engine Models F4L2011, F4L1011F, F3L1011F, D2011L02, D2011L03i, TD2011L04i, F4M1011F and BF4M1011F, <b>GEHL</b> Skid Steer Models 6635 DXT, 6635 SXT, SL5635, SL5635 DXT, SL5635 SXT, and SL5636 DXT, <b>GENIE</b> Rough Terrain Scissor Lifts Models GS-3384, GS-3390, GS-4390, and GS-5390, <b>GENIE</b> Boom Lift Models S-40, S-45, S-60, S-65, S-80, S-85, Z-45 XC, Z-45/22 IC, Z-45/25 IC, Z-45/25J IC, Z-51/30J, Z-60/34, and Z-62/40, <b>SKYJACK</b> Articulating Boom Models SJ46AJ, and SJ51AJ, <b>SUPERPAC</b> Vibratory Roller Models A421 and A471

Part Number	Replaces	Used On
<b>MINNPAR</b>		
 <b>47-4651</b> 12-VOLT, 35-AMP, CW, IR/EF	<b>WILSON</b> 90-25-1110N, 90-25-1110, 90-25-1102. <b>BOSCH</b> 0-986-035-411, 0986035411. <b>DENSO</b> 210-9000, 211-9000. <b>HITACHI</b> LR135-115, LR135-116, LR135-124, LR135-127, LR135-58B, LR135-86, LR135-86C, LR135-86F, LR135-95, LR135-95B, LR135-95BN. <b>ISEKI</b> 6581-200-338-0, 6581-200-338-0A, 6581-200-349-0. <b>ISUZU</b> 5812003381, 5812003410, 5812003411, 8944237560. <b>LUCAS</b> LRA01191. <b>WAI</b> 112115N, 1-2332-01HI. <b>ROMAINE</b> 12115N, 12115N-OEM, 36-12115. <b>NAPA</b> 12115. <b>YANMAR</b> 121400-77200, 121400-77201. <b>MASSEY FERGUSON</b> 3282-883-M91, 5001-8101-00.	<b>ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON</b> TRACTORS (1978-1992), <b>ISUZU NISSAN, TAKEUCHI, TCM</b> FORKLIFTS and Equipment, 1982-ON.
<b>MINNPAR</b>		
 <b>47-4657</b> 14-VOLT, 55-AMP, IR/EF, DUST PROOF	<b>MINNPAR</b> 0120489901, <b>MAHLE-LETRIKA</b> (ISKRA) IA1078, IA 1078, MG209, <b>GENIE</b> 75393GT, 75393, <b>WILSON</b> 90-23-6520, <b>BOMAG</b> 5910960, 05710960, <b>ATLAS COPCO</b> , <b>WAGNER</b> 291317870, <b>DEUTZ</b> 1183852, 1183638, 1183447, 1182151, 118-3852, 118-3638, 118-3447, 118-2151, 1178606, 1178299, 1175731, 117-8606, 117-8521, 117-8299, 117-5731, 01183852, 01183638, 01183447, 01182151, 01178606, 01178521, 01178299, 01175731.	<b>DEUTZ</b> Engine Models F2L912, F3L912, F3L913, F4L912, F4L913, F5L912, F6L912, F6L913, BF4L913, BF4L913T, BF6L913, BF6L913T, 3-172D, 3-187D, 4-230D, 4-249D, 6-584, D2011 L4, D2011 L3, BF4M2011, F3L D914-L03, F3M2011, BF3M1011F, TCD2011 L04.
<b>MINNPAR</b>		
 <b>47-4680</b> 12-VOLT, 95-AMP, CW, IR/IF	<b>MINNPAR</b> 47-4822, 47-5140, 240-6342, <b>JLG</b> 7029525, <b>WAI</b> 1-3025-01DR, <b>DELCO</b> 8600086, 8600000, 19020208, 19020207, <b>WILSON</b> 90-01-4533, 90-01-4519, <b>CASE</b> 87042117, 87038475, 84230294, <b>DENSO</b> 102211-3291, <b>CUMMINS</b> 3972730, <b>GRADALL (JLG)</b> 7029525, <b>LULL</b> 7029525, <b>SKYTRAK</b> 7029525	<b>CASE</b> Engine Models 432T/M3 Diesel, 445T/M3 Diesel, 445T/M2 Diesel, <b>CUMMINS</b> B3.9 TIER 1, <b>CASE</b> 432T/M3 Diesel, 445T/M3 Diesel, 445T/M2 Diesel, 3.4L 3cyl 78HP Diesel, 4.5L 4cyl 80HP Diesel, 334T Diesel, 334M2 3.4L 63HP Diesel, 334TM2 3.4L 78HP Turbo Diesel, 445M2 4.5L 80HP Diesel engines.
<b>MINNPAR</b>		
 <b>47-4688</b> 12-VOLT, 40-AMP, CW, IR/IF	<b>DENSO</b> 101211-1380, <b>WAI</b> 122772N, <b>YANMAR</b> 129240-77200	<b>YANMAR</b> Engine Models 3TNV-70, 3TNE-88-TB, and 4TNE-88-TB

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## Part Number

## Replaces

## Used On

### MINNPAR



**47-4820**

12-VOLT, 70-AMP, CW, IR/IF

**BOSCH** AL5057N, AL5057X, 0-124-315-030, 0-124-315-042, **JOHN DEERE** RE509648, SE501831, RE529377, **MAHLE-LETRIKA** MG 471, IA1528, **MINNPAR** 47-4698, 47-5103, **WILSON** 90-15-6535

**JOHN DEERE** Engine Models 4024HF297, 4024HLV11, 4024HT011, 4024TLV03, 4024TLV04, 4024TLV06, 4024TLV07, 4024TLV08, 4024TLV09, 4024TLV10, 4024TT001, 4024TT002, 4024TT003, 4024TT012, 4024TLV01, 4024TLV02, 4045DP057, 4045TP079, 5030TT001, 5030TT002, 5030TT003, 5030HF286, 5030HLV11, 5030HT011, 5030HT012 and **YANMAR** Engine Models 4TNV86CHT, 4TNV94CHT, 4TNV98CT, and 4TNV98T

### MINNPAR



**47-4907**

24-VOLT, 60-AMP, CW, IR/EF

**BOSCH** 0-120-469-014, 0-986-034-370, 0-120-469-798, **NAPA** 12417, **VOLVO** 11063163, 1624090, 5003089, 6779261, 8113911, V0E9000873757, V0E9011063163, 873757-9, 873757, **WAI** 12417N, **WILSON** 90-20-3572

**VOLVO** Engine Models TD12KFE, TD40GA, TD40GFE, TD45B, TD61GB, TD61GD, TD61GL, TD63KDE, TD71G, TD71K, TD73KCE, TD73KDE, TD73KFE, TD102GB, TD102GC, TD102KH, TD103KBE, TD103KCE, TD122GA, TD122KAC, TD122KHE, and TD122KLE

### MINNPAR



**47-4963**

12-VOLT, 85-AMP, CW, IR/IF

**MINNPAR** 47-4963, 47-4291, 47-1227, 400-41006, **JCB** 714/32200, 714/22500, 714/40152, 714/40153, 714/40154, 714/40155, 71440154, **PERKINS** 2871A309, 3832556, T412401, 2871A307, 2871A306, 2871A304, 2871A302, 2871A301, 2871A168, **WILSON** 90-19-2514, 90-17-8091, 90-17-8080, 90-17-8064, 90-17-8060, **DENSO** 102211-8180, 102211-8170, 102211-8121, 102211-8120, 101210-1570, **CATERPILLER (CAT)** 225-3141, 225-3144, 349-1369, 383-2556, Ford E7NN-10B376-BB, E7NN-10B376-AB, E7NN-10B376-AA, E7NN10B376AA, E7NN10B376AB, E7NN10B376BB, **MAHLE-LETRIKA** (ISKRA) IA1204, IA 1204, MG560, MG 560

**CATERPILLAR (CAT)** 3024, 3024C Engine, **PERKINS** Engine Models 1104D-44TA, 1006 TAG, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44TA, 1104C 44T, 1104D-44T, 1004 40T, 1004 42, 404 D-22

### MINNPAR



**47-5038**

24-VOLT, 35-AMP, BI, IR/EF

Motorola 8HC3022F, 8HC3022FS, 8HC3025F, 10-285, 110-313, **MINNPAR** AM00055, **CATERPILLER (CAT)** 6P1395, 6T1395, OR3653, OR3653, 7T2095, **WAI** 1-3199-00PL, **WILSON** 90-05-9172

**CATERPILLAR (CAT)** Generator Model SR4, Engine-Generator Set Models 3114, 3306B, 3304, 3208, G3306, XQG135, 3304B, 3316, 3306, Petroleum Products Models G3306B, Engine-Industrial Models 3306, 3304, 3208, G3306, 3126, D330C, D333C, G3306B, 3116, G3304B, 3114, G3304, G342C.

Part Number	Replaces	Used On
<b>MINNPAR</b>		
 <b>47-5147</b> 12-VOLT, 90-AMP, CW, IR/IF	<b>DEERE</b> ENGINES RE500227, SE01836 <b>DENSO</b> 102211-1180 <b>WILSON</b> 70-29-12474 90-29-5413	<b>JOHN DEERE</b> Engine Models 6081afm01 8.1L 496ci 6cyl, 6081afm75 8.1L 496ci 6cyl, 6125afm01 12.5L 766ci 6cyl, 6125afm75 12.5L 763ci 6cyl and 6125sfm75 12.5L 766ci 6cyl.
<b>MINNPAR</b>		
 <b>47-5171</b> 12-VOLT, 40-AMP, CW, IR/IF	<b>MINNPAR</b> 612356, <b>JOHN DEERE</b> AM879908, LVA12357, TY25243, <b>CASE</b> VV12942377200, <b>DENSO</b> 101211-1170, 5-86400-240-0, 5-86400-2400, 586400-2400, 9761219-117, <b>WILSON</b> 90-29-5421.	<b>YANMAR</b> Engine Models 3TNM72, 3TNV76, 3TNV82, 3TNV88, 4TNE84, 4TNE88.
<b>MINNPAR</b>		
 <b>47-5186</b> 12-VOLT, 40-AMP, CW, IR/IF	<b>CASE/NEW HOLLAND</b> VA30A6800801, <b>MAGNUM</b> Light Tower 16743, <b>MITSUBISHI</b> 30A68-0080, 30A68-00801, A007TA0171, A7TA0171, A7TA0171B, <b>WAI</b> 12432N, <b>WILSON</b> 90-27-3278	<b>MITSUBISHI</b> Engine Models L2A L2A-61DM, L2A L2A-61SS, L2A L2A-62SS, L2E L2E-61DM, L2E L2E-61SA, L2E L2E-61SS, L2E L2E-61TM, and L2E L2E-62SS
<b>MINNPAR</b>		
 <b>47-5236</b> 14-VOLT, 80-AMP, CW, IR, DUST PROOF	<b>ATLAS COPCO/DYNAPAC</b> 3960212, <b>BOMAG</b> 05716758, <b>DELCO REMY</b> DRA0409, <b>DEUTZ</b> 01179896, 01180649, 01180661, 01182107, 01182436, 01183860, 01183907, 04103907, <b>GENIE</b> 58249, 58249GT, <b>MAHLE-LETRIKA</b> MG607, IA0484, <b>VALEO</b> 436493, 439192, 2541709A, <b>VOLVO</b> 11716111, 2904893, VOE9002904893	<b>DEUTZ</b> Engine Models BF4L2011, F4L2011, BF4L1011FT, BF4L1011, TCD2011 L04, TD2011 L04i, F3L1011, F3L1011F, F4L1011, D2011 L02, D2011 L03i, BF4M2011 L04W, and TCD2011 L04W
<b>MINNPAR</b>		
 <b>47-5247</b> 12-VOLT, 70-AMP, CW, IR/IF	<b>MINNPAR</b> 240-6341, <b>DELCO</b> 19020203, 19020204, <b>CUMMINS</b> 3972729, 3972730, 4988274, 5293586, <b>WILSON</b> 90-01-4545, <b>JLG</b> 7000897, 70023287	<b>CUMMINS</b> B Series Engines

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## Part Number

## Replaces

## Used On

### MINNPAR



**47-5271**

12-VOLT, 55-AMP, CW, IR/IF

**MINNPAR** AND0350, **KUBOTA** K7561-61913, K7561-61912, K7561-61911, K7561-61910, **WILSON** 90-29-5529, 70-29-12534, **DENSO** 101211-8770, 101211-8771, **WAI** 12534N

**KUBOTA** Engine Models D902E-UV 21.6HP, D902-E3-UV 21.6HP, **D902-E4-UV 21.6HP**, **D1105-E4-UV 24.8HP**

### MINNPAR



**47-5395**

12-VOLT, 120-AMP, CW, IR/IF

**MINNPAR** 47-5395RM, AND0586, **JLG** 70021849, **KOMATSU** 600-861-1951, 6008611951, **SKYTRAK** 70021849, **WILSON** 90-29-5460, 90-29-5460AM, **DENSO** 102211-0830, **CUMMINS** C6008611951

**CUMMINS** B3.3 Engine, **KOMATSU** 4D95L Engine

### MINNPAR



**47-5535**

12-VOLT, 120-AMP, CW, IR/EF

**MINNPAR** A-6620, LRA03698, **CASE** 84416587, 84416587R, 84254289, **MAHLE-LETRIKA** (ISKRA) IA1452, IA 1452, MG274, MG691, 11.204.352, 11.204.060

**CASE** Loader Backhoe Models 580N, 580SN, 580SN WT, 590SN, 590SN Tier 4A, 580N Tier 4A, 580SN WT Tier 4A, 580SN Tier 4A. Rough Terrain Forklift Models 586H Tier 4A, 588H Tier 4A. Landscaper Loader Model 570NXT Tier 4A.

### MINNPAR



**47-5592**

12-VOLT, 110-AMP, CW, IR/IF

**HITACHI** LR1110-735, LR1110-735B, LR1110-735C, **ISUZU** 8980762600, 8-98076-260-0, 8980762602, 8-98076-260-2, **MINNPAR** 47-5525

**ISUZU** 3.9L 4HK1 and **ISUZU** 3.9L - 4BD1 Diesel Engine Applications

### MITSUBISHI









**A7TA0171B**

12-VOLT, 40-AMP, CW, IR/IF


30A68-0080, 30A68-00801, A007TA0171, A7TA0171, A7TA0171B

**MITSUBISHI** Engine Models L2A L2A-61DM, L2A L2A-61SS, L2A L2A-62SS, L2E L2E-61DM, L2E L2E-61SA, L2E L2E-61SS, L2E L2E-61TM, and L2E L2E-62SS









	Part Number	Replaces	Used On
<b>MORGEN</b>			
	<b>212-465</b> 12-VOLT, 95-AMP, CW, IR/EF		<b>MORGEN</b> Concrete pump
<b>NAPA</b>			
	<b>12115</b> 12-VOLT, 35-AMP, CW, IR/EF		<b>ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON</b> TRACTORS (1978-1992), <b>ISUZU NISSAN, TAKEUCHI, TCM</b> FORKLIFTS and Equipment, 1982-ON.
<b>NAPA</b>			
	<b>12190N</b> 12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY	RN12179, 12190	<b>KUBOTA</b> Engine Models D722E-GX, D782, D905, V1305, V1305B, V1305E, V1505-B, WG590V, WG752
<b>NAPA</b>			
	<b>12417</b> 24-VOLT, 60-AMP, CW, IR/EF		<b>VOLVO</b> Engine Models TD12KFE, TD40GA, TD40GFE, TD45B, TD61GB, TD61GD, TD61GL, TD63KDE, TD71G, TD71K, TD73KCE, TD73KDE, TD73KFE, TD102GB, TD102GC, TD102KH, TD103KBE, TD103KCE, TD122GA, TD122KAC, TD122KHE, and TD122KLE
<b>NAPA</b>			
	<b>13-4059</b> 24-VOLT, 65-AMP, 27SI, BI, IR/EF	67197	<b>CUMMINS</b> Diesel Engine Models V-504, K Series, L Series, V Series, NTC-855, N14, M11, 6-509, 504
<b>NAPA</b>			
	<b>13-4410G</b> 12-VOLT, 65-AMP, IR/EF	13-4411G, 13-4412G, 213-4410G, 213-4411G, 213-4412G	<b>DAEWOO</b> Engine Models DC24, DB33, DB33A, and <b>HERCULES</b> 1600 – 2.7 L Engines.






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	Part Number	Replaces	Used On
<b>NAPA</b>			
	<b>213-3065</b> 12-VOLT, 95-AMP, CW, IR/IF	1N3109, 213-3065,	<b>FORD</b> LRG-423 Engines
<b>NAPA</b>			
	<b>68003N</b> 24-VOLT, 70-AMP, CW, IR/EF	68002, 68003	<b>CUMMINS</b> QSB4.5T, K Series, B3-9C, B5-9C, C8-3C, L10, M11, M11C Engines
<b>NEW HOLLAND</b>			
	<b>VA30A6800801</b> 12-VOLT, 40-AMP, CW, IR/IF		<b>NEW HOLLAND</b> Compact Excavator Model E18B
<b>PERKINS</b>			
	<b>2871A309</b> 12-VOLT, 85-AMP, CW, IR/IF	3832556, T412401, 2871A307, 2871A306, 2871A304, 2871A302, 2871A301, 2871A168	<b>PERKINS</b> Engine Models 1104D-44TA, 1006 TAG, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44TA, 1104C 44T, 1104D-44T, 1004 40T, 1004 42, 404 D-22
<b>ROMAINE</b>			
	<b>12115N</b> 12-VOLT, 35-AMP, CW, IR/EF	12115N-OEM, 36-12115	<b>ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON</b> TRACTORS (1978-1992), <b>ISUZU NISSAN, TAKEUCHI, TCM</b> FORKLIFTS and Equipment, 1982-ON.
<b>SKYJACK</b>			
	<b>136101</b> 12-VOLT, 40-AMP, CW, IR/IF, V1 PULLEY	137857	<b>SKYJACK</b> Rough Terrain Scissor Lift Models SJ600, SJ6826 RT, SJ6832 RT, SJ7127 RT, SJ7135 RT, SJ8243 RT, SJ8831 RT, SJ8841 RT, SJ8850 RT, SJ9250 RT.

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Part Number	Replaces	Used On
<b>SKYJACK</b>		
 <b>168365</b> 12-VOLT, 60-AMP, CW, IR/EF		<b>SKYJACK</b> Articulating Boom Models SJ46AJ, and SJ51AJ
<b>SKYTRAK</b>		
 <b>70021849</b> 12-VOLT, 120-AMP, CW, IR/IF		<b>SKYTRAK</b> Telehandler Models 6036, 6042, 8042, 10042, 10054
<b>SKYTRAK</b>		
 <b>7029525</b> 12-VOLT, 95-AMP, CW, IR/IF		<b>SKYTRAK</b> Telehandler Models 6036, 6042, 8042 10042, 10054
<b>SKYTRAK</b>		
 <b>8270214</b> 24-VOLT, 70-AMP, CW, IR/EF		<b>SKYTRAK</b> Telehandler Models EIRV and MMV
<b>SKYTRAK</b>		
 <b>8270221</b> 12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY		<b>SKYTRAK</b> Telehandler Models 10042, 10054, 3606, 4266, 4270, 4290, 5028, 5028HF, 5028HT, 6036, 6042, and 8042
<b>SUPERPAC</b>		
 <b>203427</b> 12-VOLT, 60-AMP, CW, IR/EF	SP203427	<b>SUPERPAC</b> Vibratory Roller Models A421 and A471

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Part Number	Replaces	Used On
<b>SUPERPAC</b>		
 <b>SP201874</b> 12-VOLT, 65-AMP, CW, IR/EF	SP2839, 201874, 2839	<b>SUPERPAC</b> Machinery with <b>DEUTZ</b> Engine Models F2L511, F2L912, F3L912, F3L913, F4L912, F4L913, BF4L913T, BF4L913, BF4M1011F, F5L912, F6L912, F6L913
<b>VALEO</b>		
 <b>2541707A</b> 12-VOLT, 60-AMP, CW, IR/EF	436491, 436491, 439190, 2541133, 2541659, 2541707A	<b>DEUTZ</b> Engine Models F4L2011, F4L1011F, F3L1011F, D2011L02, D2011L03i, TD2011L04i, F4M1011F and BF4M1011F, <b>GEHL</b> Skid Steer Models 6635 DXT, 6635 SXT, SL5635, SL5635 DXT, SL5635 SXT, and SL5636 DXT, <b>GENIE</b> Rough Terrain Scissor Lifts Models GS-3384, GS-3390, GS-4390, and GS-5390, Boom Lift Models S-40, S-45, S-60, S-65, S-80, S-85, Z-45 XC, Z-45/22 IC, Z-45/25 IC, Z-45/25J IC, Z-51/30J, Z-60/34, and Z-62/40, <b>SKYJACK</b> Articulating Boom Models SJ46AJ, and SJ51AJ, <b>SUPERPAC</b> Vibratory Roller Models A421 and A471
<b>VALEO</b>		
 <b>A13N273</b> 14-VOLT, 80-AMP, CW, IR, DUST PROOF	436493, 439192, 2541709A	<b>DEUTZ</b> Engine Models BF4L2011, F4L2011, BF4L1011FT, BF4L1011, TCD2011 L04, TD2011 L04i, F3L1011, F3L1011F, F4L1011, D2011 L02, D2011 L03i, BF4M2011 L04W, and TCD2011 L04W
<b>VOLVO</b>		
 <b>214169</b> 24-VOLT, 65-AMP, 27SI, BI, IR/EF	M0214169	<b>VOLVO</b> Machinery with <b>CUMMINS</b> Diesel Engine Models V-504, K Series, L Series, V Series, NTC-855, N14, M11, 6-509, 504
<b>VOLVO</b>		
 <b>2904893</b> 14-VOLT, 80-AMP, CW, IR, DUST PROOF	11716111, VOE9002904893	<b>VOLVO</b> Compact Wheel Loader Models L20 B, L25 B, and L25B-175, Wheel Loader Models L20 F, L30 B, and L35 B

	Part Number	Replaces	Used On
<b>VOLVO</b>			
	<b>873757</b> 24-VOLT, 60-AMP, CW, IR/EF	11063163, 1624090, 5003089, 6779261, 8113911, V0E9000873757, V0E9011063163, 873757-9	<b>VOLVO</b> Models A20C, A25, A25B, A25C, A30, A30C, A35, A35C, A40, L120, L120B, L120C, L150, L150C, L160, L180, L180C, L220D, L50, L50B, L50C, L70, L70B, L70C, L90, L90B, and L90C, Engine Models TD12KFE, TD40GA, TD40GFE, TD45B, TD61GB, TD61GD, TD61GL, TD63KDE, TD71G, TD71K, TD73KCE, TD73KDE, TD73KFE, TD102GB, TD102GC, TD102KH, TD103KBE, TD103KCE, TD122GA, TD122KAC, TD122KHE, and TD122KLE
<b>WAI</b>			
	<b>1-1671-02DR</b> 12-VOLT, 65-AMP, IR/EF	1-1671-01DR, 1-1670-01DR, 7929R, 7929N, 7929N-1, 20-183-11, 20-183-11-9	<b>DAEWOO</b> Engine Models DC24, DB33, DB33A, and <b>HERCULES</b> 1600 – 2.7 L Engines.
<b>WAI</b>			
	<b>1-2466-01MD</b> 12-VOLT, 90-AMP, CW, IR/IF, W/PULLEY		<b>DEUTZ</b> Engine Model BF4M1011F, <b>PERKINS</b> Engine Models 1004-40T, <b>KUBOTA</b> V1903EB, V2003, V2003MDI, V2003TEB, V2203, V2203EB, V2203MDI, V2403, V2403 MDI, V2607DIT, V3300DI, V3307DIT, V3800T, V3800DIT, V3800DTI.
<b>WAI</b>			
	<b>1-2476-01ND</b> 12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY	1-2336-01ND	<b>KUBOTA</b> Engine Models D722E-GX, D782, D905, V1305, V1305B, V1305E, V1505-B, WG590V, WG752
<b>WAI</b>			
	<b>1-2485-01DR</b> 12-VOLT, 65-AMP, CW, IR/IF		<b>GM</b> 5.0L 305 ci, 5.7L 350ci, 6.2L 377ci, 7.4L 454ci, 8.2L 502ci Engines

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	Part Number	Replaces	Used On
<b>WAI</b> 	<b>1-3025-01DR</b>		<b>CUMMINS</b> B3.9 TIER 1, <b>CASE</b> 432T/M3 Diesel, 445T/M3 Diesel, 445T/M2 Diesel, 3.4L 3cyl 78HP Diesel, 4.5L 4cyl 80HP Diesel, 334T Diesel, 334M2 3.4L 63HP Diesel, 334TM2 3.4L 78HP Turbo Diesel, 445M2 4.5L 80HP Diesel engines.
	12-VOLT, 95-AMP, CW, IR/IF		
<b>WAI</b> 	<b>1-3199-00PL</b>		<b>CATERPILLAR (CAT)</b> Engine-Industrial Models 3306, 3304, 3208, G3306, 3126, D330C, D333C, G3306B, 3116, G3304B, 3114, G3304, G342C.
	24-VOLT, 35-AMP, BI, IR/EF		
<b>WAI</b> 	<b>112115N</b>	1-2332-01HI	<b>ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON</b> TRACTORS (1978-1992), <b>ISUZU NISSAN, TAKEUCHI, TCM</b> FORKLIFTS and Equipment, 1982-ON.
	12-VOLT, 35-AMP, CW, IR/EF		
<b>WAI</b> 	<b>122772N</b>		<b>YANMAR</b> Engine Models 3TNV-70, 3TNE-88-TB, and 4TNE-88-TB
	12-VOLT, 40-AMP, CW, IR/IF		
<b>WAI</b> 	<b>12417N</b>		<b>VOLVO</b> Engine Models TD12KFE, TD40GA, TD40GFE, TD45B, TD61GB, TD61GD, TD61GL, TD63KDE, TD71G, TD71K, TD73KCE, TD73KDE, TD73KFE, TD102GB, TD102GC, TD102KH, TD103KBE, TD103KCE, TD122GA, TD122KAC, TD122KHE, and TD122KLE
	24-VOLT, 60-AMP, CW, IR/EF		
<b>WAI</b> 	<b>12432N</b>	12432N	<b>MITSUBISHI</b> Engine Models L2A L2A-61DM, L2A L2A-61SS, L2A L2A-62SS, L2E L2E-61DM, L2E L2E-61SA, L2E L2E-61SS, L2E L2E-61TM, and L2E L2E-62SS,
	12-VOLT, 40-AMP, CW, IR/IF		

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	Part Number	Replaces	Used On
<b>WAI</b> 	<b>12534N</b>		<b>KUBOTA</b> Engine Models D902E-UV 21.6HP, D902-E3-UV 21.6HP, <b>D902-E4-UV 21.6HP</b> , <b>D1105-E4-UV 24.8HP</b>
	12-VOLT, 55-AMP, CW, IR/IF		
<b>WAI</b> 	<b>20-127</b>	1-1776-00DR, 7197N	<b>CUMMINS</b> Diesel Engine Models V-504, K Series, L Series, V Series, NTC-855, N14, M11, 6-509, 504
	24-VOLT, 65-AMP, 27SI, BI, IR/EF		
<b>WAI</b> 	<b>20-221-12-1</b>	WAI 1-1431-12FD, 20-221-12-1	<b>FORD</b> LRG-423 Engines
	12-VOLT, 95-AMP, CW, IR/IF		
<b>WAI</b> 	<b>8003N</b>	1-2291-00DR, 1-2291-00DR-1, 1-2292-00DR, 20-1114	<b>CUMMINS</b> QSB4.5T, K Series, B3-9C, B5-9C, C8-3C, L10, M11, M11C Engines
	24-VOLT, 70-AMP, CW, IR/EF		
<b>WILSON</b> 	<b>70-29-12474</b>	90-29-5413	<b>JOHN DEERE</b> Engine Models 6081afm01 8.1L 496ci 6cyl, 6081afm75 8.1L 496ci 6cyl, 6125afm01 12.5L 766ci 6cyl, 6125afm75 12.5L 763ci 6cyl and 6125sfm75 12.5L 766ci 6cyl.
	12-VOLT, 90-AMP, CW, IR/IF		
<b>WILSON</b> 	<b>90-01-3100</b>	70-01-7197	<b>CUMMINS</b> Diesel Engine Models V-504, K Series, L Series, V Series, NTC-855, N14, M11, 6-509, 504
	24-VOLT, 65-AMP, 27SI, BI, IR/EF		



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	Part Number	Replaces	Used On
<b>WILSON</b> 	<b>90-01-4059N</b>	90-01-4071, 90-01-4059	<b>DAEWOO</b> Engine Models DC24, DB33, DB33A, and <b>HERCULES</b> 1600 – 2.7 L Engines.
	12-VOLT, 65-AMP, IR/EF		
<b>WILSON</b> 	<b>90-01-4335</b>	90-01-4073, 90-01-4152, 90-01-4185, 90-01-4334	<b>CUMMINS</b> QSB4.5T, K Series, B3-9C, B5-9C, C8-3C, L10, M11, M11C Engines
	24-VOLT, 70-AMP, CW, IR/EF		
<b>WILSON</b> 	<b>90-01-4422</b>	70-01-8460	<b>GM</b> 5.0L 305 ci, 5.7L 350ci, 6.2L 377ci, 7.4L 454ci, 8.2L 502ci Engines
	12-VOLT, 65-AMP, CW, IR/IF		
<b>WILSON</b> 	<b>90-01-4533</b>	90-01-4519	<b>CUMMINS</b> B3.9 TIER 1, <b>CASE</b> 432T/M3 Diesel, 445T/M3 Diesel, 445T/M2 Diesel, 3.4L 3cyl 78HP Diesel, 4.5L 4cyl 80HP Diesel, 334T Diesel, 334M2 3.4L 63HP Diesel, 334TM2 3.4L 78HP Turbo Diesel, 445M2 4.5L 80HP Diesel engines.
	12-VOLT, 95-AMP, CW, IR/IF		
<b>WILSON</b> 	<b>90-01-4545</b>		<b>CUMMINS</b> B Series Engines
	12-VOLT, 70-AMP, CW, IR/IF		
<b>WILSON</b> 	<b>90-02-5060</b>	<b>WILSON</b> 90-02-5060, 90-02-5060N.	<b>FORD</b> LRG-423 Engines
	12-VOLT, 95-AMP, CW, IR/IF		





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Part Number	Replaces	Used On
<b>WILSON</b>		
 <b>90-05-9172</b> 24-VOLT, 35-AMP, BI, IR/EF		<b>CATERPILLAR (CAT)</b> Engine-Industrial Models 3306, 3304, 3208, G3306, 3126, D330C, D333C, G3306B, 3116, G3304B, 3114, G3304, G342C.
<b>WILSON</b>		
 <b>90-15-6535</b> 12-VOLT, 70-AMP, CW, IR/IF		<b>JOHN DEERE</b> Engine Models 4024HF297, 4024HLV11, 4024HT011, 4024TLV03, 4024TLV04, 4024TLV06, 4024TLV07, 4024TLV08, 4024TLV09, 4024TLV10, 4024TT001, 4024TT002, 4024TT003, 4024TT012, 4024TLV01, 4024TLV02, 4045DP057, 4045TP079, 5030TT001, 5030TT002, 5030TT003, 5030HF286, 5030HLV11, 5030HT011, 5030HT012 and <b>YANMAR</b> Engine Models 4TNV86CHT, 4TNV94CHT, 4TNV98CT, and 4TNV98T
<b>WILSON</b>		
 <b>90-19-2514</b> 12-VOLT, 85-AMP, CW, IR/IF	90-17-8091, 90-17-8080, 90-17-8064, 90-17-8060	<b>CATERPILLAR (CAT)</b> 3024, 3024C Engine, <b>PERKINS</b> Engine Models 1104D-44TA, 1006 TAG, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44TA, 1104C 44T, 1104D-44T, 1004 40T, 1004 42, 404 D-22
<b>WILSON</b>		
 <b>90-20-3572</b> 24-VOLT, 60-AMP, CW, IR/EF		<b>VOLVO</b> Engine Models TD12KFE, TD40GA, TD40GFE, TD45B, TD61GB, TD61GD, TD61GL, TD63KDE, TD71G, TD71K, TD73KCE, TD73KDE, TD73KFE, TD102GB, TD102GC, TD102KH, TD103KBE, TD103KCE, TD122GA, TD122KAC, TD122KHE, and TD122KLE

Part Number	Replaces	Used On
<b>WILSON</b>		
 <b>90-20-3576</b> 12-VOLT, 60-AMP, CW, IR/EF	<b>BOMAG</b> 05716778, <b>CONDOR</b> 38719-111, <b>DEUTZ</b> 1180640, 1180648, 1180650, 1180660, 1182105, 1182434, 1183858, 1183905, 4103905, <b>GEHL</b> 132300, <b>GENIE</b> 3586, 35586GN, 35586GT, <b>MAHLE-LETRIKA</b> MG 111, IA0292, <b>MINNPAR</b> 47-5146, <b>SKYJACK</b> 168365, <b>SUPERPAC</b> SP203427, 203427, <b>VALEO</b> 436491, 436491, 439190, 2541133, 2541659, 2541707A, <b>WILSON</b> 90-20-3519, 90-20-3576	<b>DEUTZ</b> Engine Models F4L2011, F4L1011F, F3L1011F, D2011L02, D2011L03i, TD2011L04i, F4M1011F and BF4M1011F
<b>WILSON</b>		
 <b>90-23-6517</b> 12-VOLT, 95-AMP, CW, IR/EF	90-15-6224	<b>DEUTZ</b> Engine Models P3M, D2011 L03i; 3-cyl; 33kW, L2011 L03; 3-cyl; 33kW, BF6M1012, BF6M1012C, BF4M2012C; 73kW, BF4M2012C; 65,5kW, BF4M2012C; 80kW, BF4M2012C, TCD2012 L04; 84kW, 91kW, 99kW, BF4L913; 90HP, 88HP, 100HP, F6L912; 100HP, 90HP, BF6L913; 107HP, 100HP.
<b>WILSON</b>		
 <b>90-23-6520</b> 14-VOLT, 55-AMP, IR/EF, DUST PROOF		<b>DEUTZ</b> Engine Models F2L912, F3L912, F3L913, F4L912, F4L913, F5L912, F6L912, F6L913, BF4L913, BF4L913T, BF6L913, BF6L913T, 3-172D, 3-187D, 4-230D, 4-249D, 6-584, D2011 L4, D2011 L3, BF4M2011, F3L D914-L03, F3M2011, BF3M1011F, TCD2011 L04.
<b>WILSON</b>		
 <b>90-23-6524</b> 12-VOLT, 65-AMP, 2.5kW, CW, IR/EF, W/PULLEY	90-01-4330, 90-15-6170	<b>CUMMINS</b> 4B 3.9L, 6BT, 6T-590, 4-390, 4T-390 Engines.
<b>WILSON</b>		
 <b>90-23-6551</b> 12-VOLT, 65-AMP, CW, IR/EF	90-15-6299, 90-15-6223	<b>DEUTZ</b> Engine Models F2L511, F2L912, F3L912, F3L913, F4L912, F4L913, BF4L913T, BF4L913, BF4M1011F, F5L912, F6L912, F6L913.






	Part Number	Replaces	Used On
<b>WILSON</b>			
	<b>90-27-3278</b> 12-VOLT, 40-AMP, CW, IR/IF	90-27-3278	<b>mitsubishi</b> Engine Models L2A L2A-61DM, L2A L2A-61SS, L2A L2A-62SS, L2E L2E-61DM, L2E L2E-61SA, L2E L2E-61SS, L2E L2E-61TM, and L2E L2E-62SS
<b>WILSON</b>			
	<b>90-29-5295</b> 12-VOLT, 40-AMP, CW, IR/IF, V1 PULLEY	70-29-12202	<b>KUBOTA</b> Engine Models D1105, D1105T, V1505, DF972, DF972 EFI.
<b>WILSON</b>			
	<b>90-29-5340</b> 12-VOLT, 40-AMP, CW, IR/IF, W/PULLEY	90-29-5180	<b>KUBOTA</b> Engine Models D722E-GX, D782, D905, V1305, V1305B, V1305E, V1505-B, WG590V, WG752
<b>WILSON</b>			
	<b>90-29-5421</b> 12-VOLT, 40-AMP, CW, IR/IF		<b>YANMAR</b> Engine Models 3TNM72, 3TNV76, 3TNV82, 3TNV88, 4TNE84, 4TNE88
<b>WILSON</b>			
	<b>90-29-5460</b> 12-VOLT, 120-AMP, CW, IR/IF	90-29-5460AM	<b>CUMMINS</b> B3.3 Engine, <b>KOMATSU</b> 4D95L Engine
<b>WILSON</b>			
	<b>90-29-5529</b> 12-VOLT, 55-AMP, CW, IR/IF	70-29-12534	<b>KUBOTA</b> Engine Models D902E-UV 21.6HP, D902-E3-UV 21.6HP, <b>D902-E4-UV 21.6HP</b> , <b>D1105-E4-UV 24.8HP</b>

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Part Number	Replaces	Used On
<b>WILSON</b>		
 <b>90-31-7021</b> 12-VOLT, 90-AMP, CW, IR/IF, W/PULLEY		<b>DEUTZ</b> Engine Model BF4M1011F, <b>PERKINS</b> Engine Models 1004-40T, <b>KUBOTA</b> V1903EB, V2003, V2003MDI, V2003TEB, V2203, V2203EB, V2203MDI, V2403, V2403 MDI, V2607DIT, V3300DI, V3307DIT, V3800T, V3800DIT, V3800DTI.
<b>YANMAR</b>		
 <b>121400-77200</b> 12-VOLT, 35-AMP, CW, IR/EF	121400-77201	<b>ALLIS CHALMERS, DEUTZ-ALLIS, ISEKI, MASSEY FERGUSON</b> TRACTORS (1978-1992), <b>ISUZU NISSAN, TAKEUCHI, TCM</b> FORKLIFTS and Equipment, 1982-ON.
<b>YANMAR</b>		
 <b>129240-77200</b> 12-VOLT, 40-AMP, CW, IR/IF		<b>YANMAR</b> Engine Models 3TNV-70, 3TNE-88-TB, and 4TNE-88-TB
<b>YANMAR</b>		
 <b>8-98076-260-2</b> 12-VOLT, 110-AMP, CW, IR/IF	8980762600, 8-98076-260-0, 8980762602	<b>ISUZU</b> 3.9L 4HK1 and <b>ISUZU</b> 3.9L - 4BD1 Diesel Engine Applications

Part Number	Replaces	Used On
<b>ATLAS COPCO</b>		
 <b>2913146100</b> 12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		<b>ATLAS COPCO</b> Portable Air Compressor Models XAHS37DD, XAS47DD/G, XAS57DD, XAS67DD/G, XAS97G/G, XATS67DD, XATS77DD and <b>ATLAS COPCO</b> Portable Generator Models QAX12 400V-3PH, QAX20 400V-3PH, QAX24 240V-3PH, QAX30 400V-3PH, QAX35 240V-3PH, QAX45 240V-3PH, and QAX70 240V-3PH
<b>ATLAS COPCO</b>		
 <b>2913175500</b> 12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR	2913173200	<b>ATLAS COPCO</b> machinery with <b>DEUTZ</b> Engine Models F4L2011, F4L1011, F3L2011, F3L1011, F3L1011F, BF4L1011FT, BF4L1011, F2L1011, and F4L1011F
<b>ATLAS COPCO</b>		
 <b>2913179000</b> 12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR	2913146100	<b>ATLAS COPCO</b> machinery with <b>DEUTZ</b> Engines BF4M2100, F3L1011F, F3L1011
<b>ATLAS COPCO</b>		
 <b>2913198900</b> 12-VOLT, 9-TOOTH, 3.0 kW, CW, PLGR	2913175400, 2913108700	<b>ATLAS COPCO</b> machinery with <b>DEUTZ</b> Engine Models 3-172, 3-187, 4-230, 4-249, 6-374, F3L912, F3L913 F3L914, F4L912, F4L913, F4L914, F5L912, F5L914, F6L912, F6L913, F6L914, BF6L913/C, BF4M2012/C, TCD2012 L04, TCD2012 L06, BF4M1011/F, BF4M1012E/EC, BF4M1013E/ EC, BF6M1013 FC, BF5M1011, BF3L914, BF6M1012/E, BF6M2012C, BF4L913/T
<b>BOBCAT</b>		
 <b>6632415</b> 12-VOLT, 11-TOOTH, 2.5 kW, CW, OSGR	6631597	<b>BOBCAT</b> Skid Steer Model 975 Model years 81-90, Wood Loader Models 1075, 1080, 1080B Model years 75-85

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Part Number	Replaces	Used On
<b>BOBCAT</b>		
 <b>6651636</b> 12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR	6633058	<b>BOBCAT</b> Skid Steer Loader Model 980
<b>BOBCAT</b>		
 <b>6667987</b> 12-VOLT, 10-TOOTH, 1.4 kW, CW, OSGR	6667987EF, 6667987REM	<b>BOBCAT</b> Compact Track Loader Models MT50 (Model years 2002-2003), MT52 (Model years 2004-2009), MT55 (Model years 2005-2013), Skid Steer Loader Models 453F (Model years 1997-2001), (463 Model years 2000-2008), 553 (Model years 1995-2000), 553F (Model years 1995-2007), 653 (all Model years), S70 (Model years 2008-2013)
<b>BOBCAT</b>		
 <b>6670727</b> 12-VOLT, 10-TOOTH, 2.0 kW, CW, OSGR	7253205, 661858	<b>BOBCAT</b> Compact Excavators Models 325,328, 329,331,334,335,337,341,E25,E26,E32,E35,E42,E45,E50,E55, Skid Steer Loaders S100 with <b>KUBOTA</b> Engine Models D1703B,D1703E2B,V2203EB,V2403,V2003TEB,D1105E2B,D-1803MD1,V2403MD1,V2403M and V1505.
<b>BOBCAT</b>		
 <b>6685190</b> 12-VOLT, 11-TOOTH, 2.7 kW, CW, PLGR	6676957, 6685190REM, DSL6676957	<b>BOBCAT</b> Skid Wheel Steer Loader Models A300, A770, T110, T140, T180, T190, T250, T300, T320, T550, T590, T630, T650, T750, T770, T870, 751G, 753, 763, 773, S100, S130, S150, S160, S175, S185, S205, S220, S250, S300, S330, S510, S530, S550, S570, S590, S630, S650, S750, S770, and S850, Telehandler Models T2250 and V417, Toolcat UTV 5600 and 5610
<b>BOBCAT</b>		
 <b>6688189</b> 12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		<b>BOBCAT</b> Compact Excavator Model 442



	Part Number	Replaces	Used On
<b>BOBCAT</b>			
	<b>6962169</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, OSGR	3390105, 6680542, 6681742	<b>BOBCAT</b> Loader Backhoe Models B200 and B250
<b>BOBCAT</b>			
	<b>6988700</b> 12-VOLT, 9-TOOTH, 1.4kW, CW, OSGR	6653920, 6655896, 6662323	<b>BOBCAT</b> machinery with <b>KUBOTA</b> Engine Models D1301A, D1302, D1302DI, D1402, D1402BH, D1702, D1703-B, D1902, D1902BH, V1402, V1500A, V1702DIA, V1902B, V2203, V2203E, S2800B, F2803, F2803E.
<b>BOBCAT</b>			
	<b>7018593</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, PMGR		<b>BOBCAT</b> 3400, 3400XL, 3450, 3600, and 3650 UTV all Model years
<b>BOBCAT</b>			
	<b>7018855</b> 12-VOLT, 9-TOOTH, BOBCAT 3400 SERIES ATV		<b>BOBCAT</b> 3200, 3400, 3400XL UTV's ALL Model years
<b>BOBCAT</b>			
	<b>7169477</b> 12-VOLT, 10-TOOTH, 3.0 kW, PLGR		<b>BOBCAT</b> Skid Steer Models TL360. Telehandler Models T2256, T2566, T35100, T35100L, T35100SL, T35120, T35120L, T35120SL, T35120 SL MP, T3571, T3571L, T40140, T40170, TL360, TL470, TL470HG, TL470HP, TR40250, TR45190, TR50210.
<b>BOBCAT</b>			
	<b>7258859</b> 12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR		<b>BOBCAT</b> Skid Steer Loader Models 643, 743, 751F, 751G, 763, 773, 823, Trencher Model T190





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Part Number	Replaces	Used On
<b>BOMAG</b>		
 <b>05712909</b> 12-VOLT, 9-TOOTH, 3.0 kW, CW, PLGR	5712909	<b>BOMAG</b> Articulated Tandem Roller Models 211, 211B, BW 141AC, BW 190 AD-4, BW 203 AD-4 AM, BW 24 RH, BW 25 RH, BW 27 RH, BW 211 PD-40, BW 212 D-40, BW 216 D-40.
<b>BOMAG</b>		
 <b>05718062</b> 12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR	05710969R, 05718062	<b>BOMAG</b> Vibratory Roller Model 138AC
<b>BOMAG</b>		
 <b>05718064</b> 12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		<b>BOMAG</b> Vibratory & Single Drum Rollers BW 124HD-S, 135AD, 138AC, 138AD, 141AD-4, 151AC-4AM, 151AD-4, 154AD-4/AM, 161AC/AD-4/40, 124DH, 124PDB(T), 124PHD, 145D/DH/PDH, 177 DH-4/BVC/PDH-4, and 179DH-4/PDH-4
<b>BOMAG</b>		
 <b>05718090</b> 12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR	18951, 0514657R	<b>BOMAG</b> Vibratory & Single Drum Rollers BW 124HD-S, 135AD, 138AC, 138AD, 141AD-4, 151AC-4AM, 151AD-4, 154AD-4/AM, 161AC/AD-4/40, 124DH, 124PDB(T), 124PHD, 145D/DH/PDH, 177 DH-4/BVC/PDH-4, and 179DH-4/PDH-4
<b>BOMAG</b>		
 <b>05726092</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR	05728551, 5726001, 05726003R, 05726003, 05726001, 05710924	<b>BOMAG</b> Reversible Vibrating Plate Models BPR 50/52 D-3, BPH 80/65S, BPR 100/80D, BPR 70/70D
<b>BOSCH</b>		
 <b>0-001-109-330</b> 12-VOLT, 9-TOOTH, 2.2 kW, CW, PMGR	0001109330	<b>JOHN DEERE</b> Engine Models 4024TT003, 4024HF297, 4024TT012, 5030HF286, 5030TT003, 4024TT001, 4024TT002, 4024HT011, 4024HT015, 5030HF286, 5030HT014, 5030HT011, 5030HT012, 4024TLV04, 4024TLV05, and 4024TLV10






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	Part Number	Replaces	Used On
<b>BOSCH</b> 	<b>0-001-109-331</b>	0001109331, 6004AA3014, F000AL0115, SR5010X	<b>JOHN DEERE</b> Engine Models 4024HF285, 4024HF295, 4024HF297, 4024TF220, 4024TF270, 4024TF280, 4024TF281, 4024TLV01, 4024TLV02, 4024TLV06, 4024TLV07, 4024TLV08, 4024TLV10, 4024TT001, 5030HF220, 5030HF270, 5030HF285, 5030HF286, 5030HF014, 5030TF220, and 5030TF270
	12-VOLT, 10-TOOTH, 2.6 kW, CW, PLGR		
<b>BOSCH</b> 	<b>0-001-109-460</b>	0-001-109-369	<b>DEUTZ</b> 2011L04i Engines, <b>SKYJACK</b> Telehandler Models SJ40T, SJ45T, SJ61T and SJ66T
	12-VOLT, 9-TOOTH, 2.3 kW, CW, PMGR		
<b>BOSCH</b> 	<b>0-001-223-002</b>	0-001-218-172, 0-001-218-772	<b>DEUTZ</b> Engine Models F4L2011, F4L1011, F3L2011, F3L1011, F3L1011F, BF4L1011FT, BF4L1011, F2L1011, and F4L1011F
	12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR		
<b>BOSCH</b> 	<b>0-001-223-021</b>	0001223016, 0-001-223-016, 0001223021	<b>DEUTZ</b> 1011 and 2011 Engines, <b>INGERSOLL RAND</b> Mini Excavator ZX75, <b>VERMEER</b> Ride on Trencher RT450, <b>WACKER NEUSON</b> Compact Track Loader 1101P, Skid Steer Loader 901S/SP, Wheel Dumpers 1001, 6001, 9001 and Wheel Loader WL48
	12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		
<b>BRIGGS &amp; STRATTON</b> 	<b>844717</b>	691564, 693469, 808106	16-21 HP OHV V-TWIN Gas Motors
	12-VOLT, 15-TOOTH, 0.7 kW, CCW, PMDD		
<b>CASE</b> 	<b>126895A1</b>		<b>CASE</b> Trencher Model 560, Skid Steer Loader Model 1838
	12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR		






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Part Number	Replaces	Used On
<b>CASE</b>		
 <b>1959380C</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, OSGR		<b>CASE</b> Skid Steer Model 1825B, Trencher Model 460 DIESEL
<b>CASE</b>		
 <b>307822R92</b> 24-VOLT, 11-TOOTH, CW, DD	307822C92, 313979C92, 313979R92, 317941R92, 439677R91, 61694062, 627589C91, 690400C91, 755496C91, 989969C91, 989969R91, 9968591	<b>CASE</b> Loader Crawler Models 250, 250C, TD20B, TD20C, TD20E, TD25, TD25B, TD25C, TD25E, TD30, TD40.
<b>CASE</b>		
 <b>503470</b> 12-VOLT, 9-TOOTH, 1.4kW, CW, OSGR	503470	<b>KUBOTA</b> Engine Models D1301A, D1302, D1302DI, D1402, D1402BH, D1702, D1703-B, D1902, D1902BH, V1402, V1500A, V1702DIA, V1902B, V2203, V2203E, S2800B, F2803, F2803E.
<b>CASE</b>		
 <b>86982709</b> 12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR	104452A1, 1044552A2, 1987559C1, A170746, 87350916	<b>CASE</b> Loader Backhoe Models 480F LL, 480F, 580SK, 580L, 580L Series II, 580SL, 580SL Series II, 590 Turbo, 590L, 590SL, 590SL Series II, Loader Landscaper Models 570LXT, 570LXT Series II, Loader Forklift Models 584E, 585E, 586E, 585G, 586G, 588G, Trencher Models 660, 860, 960, Track Crawler Models 550E, 550G, 550H, 650G, 650H, 750H, Skid Steer Models 1840, 1845C, 85XT, 75XT, 90XT, 95XT, 75XT
<b>CASE</b>		
 <b>86992395</b> 12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR	86992395R	<b>CASE</b> Loader Backhoe Models B110B, B115B, B90B, B95B LR/TC, LB115B, LB75B, LB90B, U80B, D75, D85/B, D95/B, DC75, DC85, DC95, 580M Series II, 580M Series III, 580N Tier 4A, 580N Tier III, 580N, 590SN Tier 4A, 580SN WT Tier 4A, 580SN WT Tier III, 580SN Tier III, 590SN Tier III, 580SN Tier 4A, 590SM Series III, 580SM+ Series II, 580SM+ Series III, 590SM+ Series III, 580SM Series II, 580SM Series III, and 590SM Series II, Landscaper Model 570MXT Series III, Forklift Models 586G SERIES III, and 588G Series III, 850K Series II, 850K Series III, 650K Series III, 650K Series II, 750K Series II, 750K Series III, 750L, 850L, and 650L

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	Part Number	Replaces	Used On
<b>CASE</b> 	<b>87337538</b>	84208903, 5801577138, 5801577137, 50436476, 504357109, 504357110, 504036476, 504031929, 47137538, 47137534, 47132888, 2859528R, 2859528, 2859527, 2856064, 2852178, 285217	<b>CASE</b> and <b>NEW HOLLAND</b> AG Tractors with <b>NEF</b> Tier 3, Tier 4 and <b>IVECO</b> Engines. <b>CASE/IH</b> Tractor Models Farmall 65A/105U/85C/85U/90/95/95N/95U, JX 1080U/1085C/1090U/1095C/1100U, JXU 105/85/95, Maxxum 100/110/115/120/130, MXU 100/110/115, Puma 130/145/160/170/185/200/215/230 CVX, Quantum 105 F,N and V/85C/95C, Wheel Loader Model 221F, Backhoe Loader Model 580ST. <b>NEW HOLLAND</b> Backhoe Loader Models B110, B115, B95, B95B LR, B95B TC 2006-ON, Telehandler Models LM415A, LM435A, LM445A 2003-ON.
	12-VOLT, 10-TOOTH, 3.0 kW, PLGR		
<b>CASE</b> 	<b>A1016373</b>		<b>CASE</b> machinery
	12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR		
<b>CASE</b> 	<b>VA30L6610500</b>		<b>CASE</b> Compact Excavator Model CX17B, New Holland Compact Excavator Model E18SR, <b>KOBELCO</b> Hydraulic Excavator Model SK17SR-3
	12-VOLT, 14-TOOTH, 1.7 kW, CW, PMGR		
<b>CASE</b> 	<b>VV12913677011</b>		<b>CASE</b> Compact Excavator Models CX50B, CX55B, CX55BMSR, CX33C, and CX37C
	12-VOLT, 15-TOOTH, 1.4 kW, CW, OSGR		
<b>CASE</b> 	<b>VV12924277010</b>	72280431	<b>CASE</b> Compact Excavator Models CX20B, CX22B, CX27B, CX31B, CX36B, E27, E27B, E27BSR, E27SR, E30, E30B, E30BSR, E30SR, E35, E35B, E35BSR, E35SR, EH27B, EH30.B, EH35.B.
	12-VOLT, 11-TOOTH, 1.2 kW, CW, PMGR		

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Part Number	Replaces	Used On
<b>CATERPILLAR</b>		
 <b>0R-4315</b> 12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR	9G-6941	<b>CATERPILLAR (CAT)</b> Telehandler Models RTC60 RT50SA, RT50, and RT60
<b>CATERPILLAR</b>		
 <b>225-3149</b> 12-VOLT, 10-TOOTH, 3.0 kW, PLGR		<b>CATERPILLAR (CAT)</b> Engine Models 3054C.
<b>CATERPILLAR</b>		
 <b>272-0457</b> 12-VOLT, 14-TOOTH, 1.7 kW, CW, PMGR		<b>CATERPILLAR (CAT)</b> Mini Hydraulic Excavator Models 301.8C and 301.6C
<b>CATERPILLAR</b>		
 <b>333-5930</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR	3335930, 163-3361, 1633361	<b>CATERPILLAR (CAT)</b> Asphalt Paver Model BB-621C, Paving Compactor Models CB-224D, CB-24, CB-24B, CB-214E, CB-334D, CB-335E, CB-34 XW, CB-335D, CB-32B, CB-224E, CB-334E, CB-225D, CB-34, CB-22B, CC-34, CB-22, CB-32, CB-225E, CC-24B, CC-24, CB-214D, CB-334E XW, Engine Models C2.2, 3024C, C1.5, 3013, 3013C, 3024, 3024C, 3014, Skid Steer Loader Models 247B, 226B, 232B, 216B, 257B, 242B, 242, 216, 226B, 226, 228, 232.
<b>CATERPILLAR</b>		
 <b>8T9685</b> 12-VOLT, 10-TOOTH, 2.5 kW, CW, DD	7C4622, 676372, 143-0537, 106-8553	<b>CATERPILLAR (CAT)</b> Wheel Tractor-Scraper Models 62 3E, 627G, 621E, 621F, 623F, 627E, 627F, 621G, Telehandler Models RT60, RTC60 RT50SA, RT50, Cold Planer Model PR-75, Paving Compactor Models CS-323, CP-323, CS-433B, CP-433B.

Part Number	Replaces	Used On
<b>CATERPILLAR</b>		
 <b>9G6097</b> 24-VOLT, 11-TOOTH, 9.0 kW, CW, DD	207-1556, 0R2187, 0R2190, 0R2697, 0R4259, 0R5209, 104-7041, 104-7042, 106-8551, 10R0400, 1M6132, 1N9412, 3T2651, 3T2653, 3T5831, 3T8952, 4N0957, 4N1062, 4N5471, 5L4171, 5L4431, 5L4513, 6N1889, 6T0643, 6V0513, 6V5539, 6V5540, 7T0796, 7T9162, 8C3645, 8L8207, 9G6096	<b>CATERPILLAR (CAT)</b> machinery with <b>CUMMINS</b> L Series, 855, NTC, NTA, NH Engines
<b>CATERPILLAR</b>		
 <b>9L6484</b> 24-VOLT, 11-TOOTH, CW, DD	9L6474, 8L8205, 6V0890, 6T0640, 6N9677, 5N2685, 5L648, 4N3343, N0959, 3T8949, 3L8205, 269-2757, 237-1962, 10R1852, 10R-9815, 0R5213, 104-3745, 3T2646, 3T3153, 4N8118, 4N957, 5L2537, 5L2637, 5L537, 5L637, 6N3122, 7L8797, 7T0794, 7T0800, 7T0801, 7T0806, 8C3644, 8C3649, 8H1813, 9G5584, 9G5585, 9G8854, 9L6691, 9N0435, 9N0453	<b>FIAT-ALLIS</b> 8205, 25000 MKII Engine. <b>CATERPILLAR (CAT)</b> Engine Models 3406, 3408, 3412, 3508, 3512, 3516, D342, D343, D346, D353
<b>CLUB CAR</b>		
 <b>103345501</b> 12-VOLT, 9-TOOTH, 0.6 kW, CCW, DENSO		<b>CLUB CAR</b> UTV XRT1550, CARRYALL 294
<b>CLUB CAR</b>		
 <b>103553901</b> 12-VOLT, 15-TOOTH, 0.7 kW, CCW, PMDD		<b>CLUB CAR</b> 16-21 HP OHV V-TWIN Gas Motors
<b>CONDOR</b>		
 <b>81868-102</b> 12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR	36252-012	<b>CONDOR</b> machinery with <b>FORD</b> LSG423 and LRG423 Engines

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Part Number	Replaces	Used On
<b>CUMMINS</b>		
 <b>3603868RX</b> 24-VOLT, 11-TOOTH, CW, DD	135162, 3021036, 3603862, 706620	<b>FIAT-ALLIS</b> 8205, 25000 MKII Engine. <b>CATERPILLAR (CAT)</b> Engine Models 3406, 3408, 3412, 3508, 3512, 3516, D342, D343, D346, D353
<b>CUMMINS</b>		
 <b>3632274</b> 24-VOLT, 11-TOOTH, 9.0 kW, CW, DD	3021036, 3201036, 3328552, 3603862, 3604321RX, 3604658RX	<b>CUMMINS</b> Engine Models L Series, 855, NTC, NTA, NH
<b>CUMMINS</b>		
 <b>3916854</b> 12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR	360481RX, 3604482RX, 3901365, 3901386, 3904445, 3905480, 3909913	<b>CUMMINS</b> Engine Models B Series 3.9L and 5.9L 94-ON, 4-239, 4.236M 3860CC, QSB 6.7 TIER I and II, 6-359, 6BT 5.9L 6 CYL 359 ci, 6BTA5.9-M 6 CYL 359 ci, 4BT3.9L
<b>CUMMINS</b>		
 <b>3964432</b> 12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR	36044660RX, 3604485NW, 3604460NW, 3675154NW, 3904466, 3920403, 3920643, 3926960, 3957586, 3957586, 3957594, 3964427, 3964428	<b>CUMMINS</b> Engine Models 4-390, 4T-390, 390, 5.9L ISB, B SERIES 3.9L, B SERIES 5.9L, QSB 6.7 Tier I, and QSB 6.7 Tier II
<b>CUMMINS</b>		
 <b>3971615</b> 12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR	3971613, 397161500	<b>CUMMINS</b> Engine Models QSB 4.5 and 6.7 Tier III.
<b>CUMMINS</b>		
 <b>4982589</b> 12-VOLT, 9-TOOTH, 2.2 kW, CW, OSGR		<b>CUMMINS</b> Engine Models B3.3L, B303T & QSB 4.5T Engines from 2003 on

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Part Number	Replaces	Used On
<b>CUMMINS</b>		
 <b>5256155</b> 12-VOLT, 11-TOOTH, 2.7 kW, CW, PLGR		CUMMINS 3.3L Engines
<b>DELCO</b>		
 <b>10455513</b> 12-VOLT, 10-TOOTH, 0.8 kW, CCW, PMDD	10455516, 8000335, 8000870	KOHLER Engine Models 20 to 27 HP
<b>DELCO</b>		
 <b>10465042</b> 12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR	323-436, 9000762, 9000768, 9000789, 9000819, 9000821, 9000840, 9000885, 9000886	GM (GENERAL MOTORS) 4.3L - 262ci - 6cyl, 5.0L - 305ci - 8cyl, 5.7L - 350ci - 8cyl, 7.4L - 454ci - 8cyl, 8.9L - 540ci - 8cyl Engine
<b>DELCO</b>		
 <b>10465043</b> 12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR	10465149, 10496882, 10496883, 1113593, 19136124, 1998408, 1998423, 1998456, 1998457, 1998490	CUMMINS B Series 3.9L and 5.9L 94-ON CUMMINS 4-239, 4.236M 3860CC, QSB 6.7 TIER I and II, 6-359, 6BT 5.9L 6 CYL 359 ci, 6BTA5.9-M 6 CYL 359 ci, 4BT3.9L
<b>DELCO</b>		
 <b>10465055</b> 12-VOLT, 9-TOOTH, 3.0 kW, CW, PLGR	10465319, 11132286, 323-448, DRS9020	DEUTZ Engine Models 3-172, 3-187, 4-230, 4-249, 6-374, F3L912, F3L913 F3L914, F4L912, F4L913, F4L914, F5L912, F5L914, F6L912, F6L913, F6L914, BF6L913/C, BF4M2012/C, TCD2012 L04, TCD2012 L06, BF4M1011/F, BF4M1012E/EC, BF4M1013E/EC, BF6M1013 FC, BF5M1011, BF3L914, BF6M1012/E, BF6M2012C, BF4L913/T
<b>DELCO</b>		
 <b>10465540</b> 12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR	69001, 93545	CUMMINS Engine Models 4-390, 4T-390, 390, 5.9L ISB, B SERIES 3.9L, B SERIES 5.9L, QSB 6.7 Tier I, and QSB 6.7 Tier II

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Part Number	Replaces	Used On
<b>DELCO</b>  <b>1107868</b> 12-VOLT, 10-TOOTH, 2.5 kW, CW, DD	1107540, 1108644, 1108697, 1109189, 1109258, 1109269, 12301346, 1998331, 1998350, 1998357, 1998446, 1998484, 323-689	<b>PERKINS</b> Engine Models 3-152, 6-354, 4-203, 4-236, 1004, 1104C-44, 1104, <b>INTERNATIONAL</b> GERMAN Diesel Engine D-310
<b>DELCO</b>  <b>19024232</b> 24-VOLT, 9-TOOTH, 4.0 kW, CW, DD	19024256, DRS1330	<b>FIAT-ALLIS (CNH) 8065 engines</b>
<b>DELCO</b>  <b>1993978</b> 24-VOLT, 11-TOOTH, 9.0 kW, CW, DD	10461024, 10461030, 100461043, 10461054, 10461068, 10461128, 10461184, 10461259, 10478937, 10478938, 10478943, 10478952, 10478980, 1113818, 1113931, 1113966, 1990344, 1990368, 1990383, 1990390, 1990410, 1990418	<b>CATERPILLAR (CAT)</b> 3402, 3406, <b>CUMMINS</b> L Series, 855, NTC, NTA, NH, and <b>DETROIT DIESEL</b> DD4-71/DD4-71D Engines
<b>DELCO</b>  <b>323-511</b> 12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR	10465341	<b>FORD</b> LSG/LRG423 Engines
<b>DELCO</b>  <b>69203</b> 12-VOLT, 9-TOOTH, 0.8 kW, CW, DD	RS41172	<b>KUBOTA</b> Engine Models WG750, D600B, D640B, WG600B, Z430-K1, WG750-G, Z400, Z430, D601
<b>DELCO</b>  <b>69311</b> 12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR	DRS7430	<b>DEUTZ</b> Engine Models F4L2011, F4L1011, F3L2011, F3L1011, F3L1011F, BF4L1011FT, BF4L1011, F2L1011, and F4L1011F

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Part Number	Replaces	Used On
<b>DELCO</b>  <b>8000282</b> 12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR	9000884	<b>GM (GENERAL MOTORS)</b> 3.0L - 181ci - <b>4cyl</b> , 4.3L - 262ci - 6cyl, 5.0L - 305ci - 8cyl, 5.7L - 350ci - 8cyl, <b>6.2L - 377ci - 8cyl, 7.4L - 454ci - 8cyl, 8.1L - 496ci - 8cyl</b> Engines
<b>DELCO</b>  <b>8000531</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR	8000532, 8000417, 8000277	<b>PERKINS</b> Engines 103-13 3 CYL-21 KW, 103-15 3 CYL-23.5KW, 104-19 4 CYL 32KW, 104-22 4 CYL-37KW, 403C-07 3R-13.4KW, 403C-10 3R-13.6KW, 403C-10 3R-16.6KW, 403C-11 3R-19.5KW, 403C-11G, 403C-15 3R-25.1KW, 403C-15G, 404C-20 4R-38KW, 404C-22G 4R-38KW, 404C-22T 4R-44.7KW, 403D-11, 403D-11G, 403D-15, 404D-22, 403G-15G, 404D-22G, 403D-II-TIER 3, 404-22D TIER 3, 404DT-22. <b>CATERPILLAR (CAT)</b> Engine Models C2.2, 3024C, C1.5, 3013, 3013C, 3024, 3024C, 3014.
<b>DELCO</b>  <b>DRS1310</b> 24-VOLT, 9-TOOTH, 4.0 kW, CW, DD	DRS1160	<b>FIAT-ALLIS</b> Crawler Loader Models FL-5, FL-5B. Motor Grader Model 65B. Wheel Loader Model FR70
<b>DELCO</b>  <b>DRZ5119</b> 24-VOLT, 11-TOOTH, CW, DD	1993852, 1990263, 1109979, 1109798, 1109791, 1109780, 1109777, 1109776, 1109775, 1109774, 1109772, 1109771, 1109768, 1109759, 1109755, 1109649, 1109647, 1109643, 1109642, 1109638, 1109631, 1109553, 1109494, 1109298, 1109296, 1109292, 1109291, 1109290, 1109289, 1109288, 1109287, 1109286, 1109285, 1109222, 10479126, 10479125, 10461125, 10461057	<b>FIAT-ALLIS</b> 8205 Engine, 25000 MKII Engine. <b>CATERPILLAR (CAT)</b> Engine Models 3406, 3408, 3412, 3508, 3512, 3516, D342, D343, D346, D353. <b>JOHN DEERE</b> Engine Models 8955T, 8955A. <b>CUMMINS</b> NTA855C, <b>CUMMINS</b> VT-555.
<b>DELCO</b>  <b>RS41286</b> 12-VOLT, 14-TOOTH, 0.5 kW, CCW, PMOSGR		<b>HONDA</b> Engine Models GX340 (11HP), GX390 (13 HP) and GX390K1 (13 HP).

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Part Number	Replaces	Used On
<b>DENSO</b>		
 <b>028000-5060</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR	028000-5060, 028000-6440, 028000-6441, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7790, 028000-7791, 128000-0020, 128000-0021, 128000-0022, 128000-0960, 128000-2880, 128000-2880	<b>JOHN DEERE</b> Skid Steer Loaders, ELGIN Sweepers, <b>HYS-TER</b> Forklifts, THERMO KING Refrigeration, CHEVROLET Luv Pickup, <b>ISUZU</b> Pick-up, <b>ISUZU</b> Trooper,
<b>DENSO</b>		
 <b>128000-3400</b> 12-VOLT, 14-TOOTH, 0.5 kW, CCW, PMOSGR	128000-2750, 128000-3400, 9712809-275	<b>HONDA</b> GX340 (11HP), GX390 (13 HP) and GX390K1 (13 HP).
<b>DENSO</b>		
 <b>128000-7042</b> 12-VOLT, 10-TOOTH, 2.5 kW, CW, DD	128000-7041, 128000-7040, 128000-4093, 128000-4092, 128000-4091, 128000-4090	<b>PERKINS</b> Engine Models 3-152, 6-354, 4-203, 4-236, 1004, 1104C-44, 1104, <b>INTERNATIONAL GERMAN</b> Diesel Engine D-310
<b>DENSO</b>		
 <b>228000-1531</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, OSGR	228000-0960, 228000-0980, 228000-0981, 228000-1530, 228000-6771, 9722809-098, 9722809-153	<b>KUBOTA</b> Engine Models D1005, V1505-B, V1305B, D1105T, D905B
<b>DENSO</b>		
 <b>228000-4752</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR	9722809-457, 9722809-459, 9722809-475, 228000-4750, 228000-4593, 228000-4592, 228000-4591, 228000-4590, 228000-4572, 228000-4571, 228000-4570, 028000-9032, 028000-9031, 028000-9030	<b>KUBOTA</b> Engine Models V2403MT, V2203, V2203E


	Part Number	Replaces	Used On
<b>DENSO</b> 	<b>228000-4920</b>	9712809-017, 9722809-102, 028000-4200, 028000-4201, 028000-4990, 028000-4991, 028000-6240, 028000-6260, 028000-6261, 128000-0170, 128000-0171, 128000-0180, 128000-0181, 128000-6640, 228000-1020, 228000-1021, 228000-1022	<b>KUBOTA</b> Engine Models D1301A, D1302, D1302DI, D1402, D1402BH, D1702, D1703-B, D1902, D1902BH, V1402, V1500A, V1702DIA, V1902B, V2203, V2203E, S2800B, F2803, F2803E.
	12-VOLT, 9-TOOTH, 1.4kW, CW, OSGR		
<b>DENSO</b> 	<b>228000-5742</b>	228000-5740, 228000-5741	<b>DEUTZ</b> Engine Models P3M, D2011 L03i; 3-cyl; 33kW, L2011 L03; 3-cyl; 33kW, BF6M1012, BF6M1012C, BF4M2012C; 73kW, BF4M2012C; 65,5kW, BF4M2012C; 80kW, BF4M2012C, TCD2012 L04; 84kW,91kW,99kW, BF4L913; 90HP, 88HP, 100HP, F6L912;100HP,90HP, BF6L913; 107HP,100HP
	12-VOLT, 10-TOOTH, 1.4 kW, CW, OSGR		
<b>DENSO</b> 	<b>228000-5911</b>		<b>KUBOTA</b> D722 & D782 Dual Fuel Engines.
	12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR		
<b>DENSO</b> 	<b>228000-6470</b>	9702809-840, 028000-8400, 028000-8401, 028000-8403	<b>JOHN DEERE</b> Engine Models 4039DFM 4 CYL, 239ci, 3.9L 2000-2007, 4045DFM50, 4045, 4.5L 2004-2007, 4045DFM70 4 CYL, 276ci, 4.5L 2004-2207, 4045TFM 4 CYL, 276ci, 4.5L, 4045TFM50 4 CYL, 276ci, 4.5L, 4045TFM75 4 CYL, 276 ci, and 4.5L 2004-2007
	12-VOLT, 11-TOOTH, 2.5 kW, CW, OSGR		
<b>DENSO</b> 	<b>228000-6552</b>	228000-6550, 228000-6551	<b>JLG, LULL, and JOHN DEERE</b> <b>JOHN DEERE</b> Engine Models 4045D, 4039DFM, 4039DFM, 4045DFM50, 4045TFM, and 4045TFM
	12-VOLT, 11-TOOTH, 4.8 kW, OSGR		

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Part Number	Replaces	Used On
<b>DENSO</b>  <b>228000-6921</b> 12-VOLT, 10-TOOTH, 2.0 kW, CW, OSGR	228000-6920, AS228000-6921, 428000-2070, 9742809-207	<b>BOBCAT</b> , Compact Excavators Models 325,328, 329,331,334,335,337,341,E25,E26,E32,E35,E42,E45,E50,E55, Skid Steer Loaders S100 with <b>KUBOTA</b> Engine Models D1703B,D1703E2B,V2203EB,V2403,V2003TEB,D1105E2B,D-1803MD1,V2403MD1,V2403M and V1505.
<b>DENSO</b>  <b>228000-7480</b> 12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR	9722809-540, 228000-5400, 228000-7090, 228000-7091, 228000-7480	<b>KUBOTA</b> Engine Models D722, D782, and WG-973
<b>DENSO</b>  <b>228000-7873</b> 12-VOLT, 11-TOOTH, 4.0 kW, OSGR	9722809-787, 228000-7872, 228000-7871, 228000-7870, 228000-5281, 228000-5280	<b>JOHN DEERE</b> Engine Model series 4045 and 6068
<b>DENSO</b>  <b>228080-0844</b> 12-VOLT, 10-TOOTH, 2.5 kW, OSGR	228000-0844, 228000-0843, 228000-0842, 228000-0841, 228000-0840	<b>JOHN DEERE</b> Engine Models 4039 and 4045
<b>DENSO</b>  <b>428000-0600</b> 12-VOLT, 9-TOOTH, 1.1 kW, CW, PLGR	228000-7470, 228000-7471, 9722809-747	<b>YANMAR</b> Engine Models 3T72, 3T75, 3TN75, 3TNA72, 3TNA75
<b>DENSO</b>  <b>428000-1290</b> 12-VOLT, 10-TOOTH, 3.0 kW, PLGR		<b>PERKINS</b> Engine Models 1104D-44TA, 1104D-E44TA, 1104A-44, 1104D-44T, 1103D-33, 1103D-33TA, 854E-34TA, 1103C33T, 854E-E34TA, 3-165 64.4HP. <b>CATERPILLAR (CAT)</b> Engine Models 3054C.

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	Part Number	Replaces	Used On
<b>DENSO</b>			
	<b>428000-1691</b> 12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR	428000-1690	<b>CASE</b> Engine Models <b>CASE</b> 445TA/E3, FPT 445TA/E3 110HP, FPT 445TA/M3 95HP, FPT 445TA/E3 97HP, FPT 445T/MMG 85HP, 4.5L 4cyl 80HP Diesel, 4.5L 4cyl 89HP Diesel, 4.5L 4cyl 90HP Diesel, 4.5L 4cyl 99HP Diesel, 6.7L 6cyl 99HP Diesel, and 445T/M3
<b>DENSO</b>			
	<b>428000-1860</b> 12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR	128000-0216, 128000-0545, 128000-2270, 128000-9501, 128000-9504, 228000-0620, 228000-1953, 9712809-021, 9712809-950	<b>CUMMINS</b> Engine Models 4-390, 4T-390, 390, 5.9L ISB, B SERIES 3.9L, B SERIES 5.9L, QSB 6.7 Tier I, and QSB 6.7 Tier II
<b>DENSO</b>			
	<b>428000-2920</b> 12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR		<b>CUMMINS</b> Engine Models QSB 4.5 and 6.7 Tier III. <b>JLG</b> Telehandler Models G10-55A, G12-55A.
<b>DENSO</b>			
	<b>428000-5060</b> 12-VOLT, 9-TOOTH, 0.6 kW, CCW, DENSO	228000-9260, 228000-9261	<b>KAWASAKI</b> 15.5HP, 21HP, 23HP, 25HP Small Engines
<b>DENSO</b>			
	<b>428000-6410</b> 12-VOLT, 10-TOOTH, CCW, DD		<b>HONDA</b> Small Engine Models GX630, GX630H, GX630R, GH630RH, GX660, GX660R, GX660RH, GX690, GX690H, GX690R, GX690RH
<b>DENSO</b>			
	<b>428000-6800</b> 12-VOLT, 11-TOOTH, 2.7 kW, CW, PLGR		<b>CUMMINS</b> 3.3 L Engines

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	Part Number	Replaces	Used On
<b>DENSO</b> 	<b>428080-2650</b>	03111-4250, 228000-9010, 428000-2650	<b>CUMMINS</b> B3.3L, B303T & QSB 4.5T Engines from 2003 on
	12-VOLT, 9-TOOTH, 2.2 kW, CW, OSGR		
<b>DEUTZ</b> 	<b>03045250</b>	01180180, 01180995, 02934505, 02934631	<b>DEUTZ</b> Engine Models F4L2011, F4L1011, F3L2011, F3L1011, F3L1011F, BF4L1011FT, BF4L1011, F2L1011, and F4L1011F
	12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR		
<b>DEUTZ</b> 	<b>04125029</b>	412-5029, 4125029	<b>DEUTZ</b> Engine Models TCD 3.6 L4 4 Cylinder Tier 4B III, 67-120HP
	12-VOLT, 10-TOOTH, 4.0 kW, CW, PLGR		
<b>DEUTZ</b> 	<b>04300007</b>	01181751, 01182124, 01182382, 01182384, 01183404, 01183599, 04300006	<b>DEUTZ</b> Engine Models BF4L2011, D2011 L2i, BM2011F, BF4M2011, F3M, D2011 L02, D2011 L03i, L2011 L03, F2M2011, F3M2011F, BF3M2011F, F3M2011, F3L2011, F3L1011F, TD2011 L04w, BF2011, TD2011 L04i, BF3L2011, BF3M2011, BF4L1011, BF4L1011FT, F2L2011, F4L2011, F4M2011, TCD2011 L4, F4M
	12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		
<b>DEUTZ</b> 	<b>4238256</b>	01178026, 01180928, 01180928KZ, 01181976, 01182233, 01182925, 01183120, 01183235, 01183677, 01183712, 03045396, 117-8026, 1178026, 118-0928, 118-1976, 118-2233, 118-2925, 118-3120, 118-3235, 118-3677, 118-3712, 1180928, 1181976, 1182233, 1182925, 1183120, 1183235, 1183677, 1183712, 304-5396, 3045396, 423-8256, 4238256	<b>DEUTZ</b> Engine Models 3-172, 3-187, 4-230, 4-249, 6-374, F3L912, F3L913 F3L914, F4L912, F4L913, F4L914, F5L912, F5L914, F6L912, F6L913, F6L914, BF6L913/C, BF4M2012/C, TCD2012 L04, TCD2012 L06, BF4M1011/F, BF4M1012/E, BF4M1013E/EC, BF6M1013 FC, BF5M1011, BF3L914, BF6M1012/E, BF6M2012C, BF4L913/T.
	12-VOLT, 9-TOOTH, 3.0 kW, CW, PLGR		

Part Number	Replaces	Used On
<b>DOOSAN</b>		
 <b>5864002200</b> 12-VOLT, 11-TOOTH, 1.2 kW, CW, PMGR		<b>DOOSAN</b> machinery with <b>ISUZU</b> Engine Models 3CA1, 3CB1, 3CD1, 3CE1
<b>DOOSAN</b>		
 <b>K1022428</b> 12-VOLT, 9-TOOTH, 2.2 kW, CW, OSGR		<b>DOOSAN</b> Skid Steer Model 470 Plus
<b>FIAT-ALLIS (CNH)</b>		
 <b>4706008</b> 24-VOLT, 9-TOOTH, 4.0 kW, CW, DD	4716026, 4716062, 4737756, 4755111, 4807379, 77050262, 77050562, 04755111	<b>FIAT-ALLIS (CNH) 8065 engines</b>
<b>FIAT-ALLIS (CNH)</b>		
 <b>70620350</b> 24-VOLT, 11-TOOTH, CW, DD	70675686, 70697811, 73114229, 73130196, 73130197, 73130198, 73130198, 70620382, 70622235, 73061273, 73069398, 73116947, 73117237, 73130194, 73130195, 73130625, 74322524, 74387529, 74396759	<b>FIAT-ALLIS</b> 8205 Engine, 14CTA with 8205, 25000 MKII Engine
<b>FIAT-ALLIS (CNH)</b>		
 <b>77445430</b> 24-VOLT, 9-TOOTH, 4.0 kW, CW, DD	77444430, 77414430, 7740560, 77080560, 77040561, 500326185, 4807378, 4755108, 4737754, 4723281, 4701920, 4699704, 4692477, 4682999	<b>FIAT-ALLIS</b> Crawler Loader Models FL-5, FL-5B. Motor Grader Model 65B. Wheel Loader Model FR70
<b>FORD</b>		
 <b>6L5Z-11002-AA</b> 12-VOLT, 11-TOOTH, 1.5kW, CW, PMGR	1L5T-11000-AA, 1L5Z-11002-AA, 6L5T-11000-AA	<b>FORD</b> 2.3L Engines

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	Part Number	Replaces	Used On
<b>FORD</b> 	<b>6S4Z-11002-AA</b>	3S4T-11002-AB, 4S4Z-11002-AA, 5S4T-11002-A	<b>FORD</b> MSG-425 Engine
	12-VOLT, 11-TOOTH, CW, PMGR		
<b>FORD</b> 	<b>D8HZ-11002-C</b>	E2HT-11001-DA, E3HZ-11002-A, E3HZ-11002-B, E3HZ-11002-C, SA-721, SA-744, SA-745, SA-747, C4TF-11000-A, C4TF11000A, C4TFA, C4TZ-11002-A, C4TZ11002A	<b>FIAT-ALLIS</b> 8205, 25000 MKII Engine. <b>CATERPILLAR (CAT)</b> Engine Models 3406, 3408, 3412, 3508, 3512, 3516, D342, D343, D346, D353
	24-VOLT, 11-TOOTH, CW, DD		
<b>FORD</b> 	<b>E4TF-11000-AA</b>	E3TF-11000-AA, E3TZ-11002-B	<b>FORD</b> Diesel Trucks w/6.9L Engines
	12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR		
<b>FORD</b> 	<b>F87Z-11002-AA</b>	F17U-11000-AB, F1TZ-11002-A, F87U-11000-A1A, F87U-11000-A1B, F87U11000-A1A	<b>FORD</b> MSG-425 Engines
	12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR		
<b>FORD</b> 	<b>SA-854</b>	SA-797, <b>FORD</b> PMGR, F7PU-11000-DA, F2HZ-11002-A, F2HT-AA, F2HT-11000-AA, F2HT-11000-11	<b>FORD</b> 7.0L (429) V8 Gas Engines
	12-VOLT, 10-TOOTH, CW, 1.5 kW, PMGR		
<b>GEHL</b> 	<b>127592</b>		<b>KUBOTA</b> Engine Models V2403MT, V2203, V2203E
	12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR		

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	Part Number	Replaces	Used On
<b>GEHL</b> 	<b>133557</b>	132299	<b>GEHL</b> Skid Steer Models 5635SX and 6635DXT
	12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR		
<b>GEHL</b> 	<b>138859</b>		<b>GEHL</b> Skid Steer Loader Models 4640, 4840, 5640, 6635DXT/SXT, 6640, SL5635/DXT/SXT, and SL5636DXT
	12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		
<b>GENERAC</b> 	<b>C2881-A</b>	0C2881, 72881, C2881	<b>GENERAC</b> machinery with <b>BRIGGS &amp; STRATTON</b> 16-21 HP OHV V-TWIN Gas Motors
	12-VOLT, 15-TOOTH, 0.7 kW, CCW, PMDD		
<b>GENIE</b> 	<b>115336GT</b>	115336GN, 115336	<b>GENIE</b> Telehandler Models GTH-1048, GTH-1056.
	12-VOLT, 10-TOOTH, 2.5 kW, OSGR		
<b>GENIE</b> 	<b>119137GT</b>	119137	<b>GENIE</b> Scissor Lift Models GS-3384, GS-3390, GS-4390, and GS-5390, Boom Lift Models S-40, S-45, S-60, and S-65, Articulating Boom Lift Models Z-45/25IC, Z-45/25J (JIB) IC, and Z-60/34
	12-VOLT, 11-TOOTH, 1.5kW, CW, PMGR		
<b>GENIE</b> 	<b>1264894GT</b>	215293GT, 1258103GT	<b>GENIE</b> Rough Terrain Scissor Lift Models GS-3384, GS-3390, GS-4390, GS-5390, Boom Lift Models S-40, S-60, S-65, Articulating Boom Lift Models Z-45/25 IC, Z-45/25J IC, Z-60/34, and Z-62/40
	12-VOLT, 11-TOOTH, CW, PMGR		







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	Part Number	Replaces	Used On
<b>GENIE</b> 	<b>139191GT</b>	139191	<b>GENIE</b> Rough Terrain Scissor Lift Models GS-2669 RT, GS-3369 RT, GS-4069 RT, Articulating Boom Lift Model Z-34/22 IC
	12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR		
<b>GENIE</b> 	<b>139709GT</b>	70376, 70376GT, 1223016, 1223016GT, 139709	<b>GENIE</b> Telehandler Models AGRI-625, AGRI-730, GTH-3384, GTH-3390, GTH-4390, GTH-5390, GTH-5390 SPECIAL, GTH-2506, GTH-2506 AU.2, GTH-3007, GTH-3007 AU.2, GTH-3007 FMS, GTH-5519, Telescopic Boom Lift Models S-100, S-100HD, S-105, S-120, S-120HD, S-125, S-3200, S-3800, S-40, S-45, S-60, S-65, S-80, S-85, SX-105 XC, SX-125 XC and SX-135 XC, Articulating Boom Lift Models Z-135/70, Z-45 XC, Z-45/22 IC, Z-45/25 IC, Z-45/25J IC, Z-51/30J, Z-60/34, Z-62/40, Z-80/60 and ZX-135/70
	12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		
<b>GENIE</b> 	<b>226627GT</b>	226627	<b>GENIE</b> Telehandler Models GTH-1048, GTH-1056, GTH-636, GTH-644, GTH-842, GTH-844, Telescopic Boom Lift Models S-100, S-105, S-120, S-125, SX-105 XC, SX-125 XC, SX-135 XC, SX-150, SX-180, Articulating Boom Lift Models Z-135/70, ZX-135/70
	12-VOLT, 10-TOOTH, 3.0 kW, CW, PLGR		
<b>GENIE</b> 	<b>228457GT</b>	228457, GN228547, 72335GT, 72335, 77479GT, 77479	<b>GENIE</b> Telehandler Model GTH-1056, Telescopic Boom Lift Models S-40, S-45, S-60, S-60 XC, S-60 TRAX, S-60X, S-65, S-65 XC, S-65 TRAX, Articulating Boom Lift Models Z-45/25 IC, Z-45/25J (JIB) IC, Z-60/34, Z-62/40.
	12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR		
<b>GENIE</b> 	<b>23456GT</b>	52810, 52810GT, 32193, 32193GT, 23456	<b>GENIE</b> Rough Terrain Scissor Lift Models GS-2668 RT and GS-3268 RT, <b>GENIE</b> Boom Lift Models Z-34/22 IC, Z-45/22 MP
	12-VOLT, 9-TOOTH, 0.8 kW, CW, DD		







	Part Number	Replaces	Used On
<b>GENIE</b> 	<b>236247GT</b>	236247	<b>GENIE</b> Telehandler Models GTH-844 S/N GTH0813-16606 to GTH0816-21546, GTH0816H-21547 to GTH0816H-21572, SN GTH0816-21535 except 21425, 21457, 21516, GTH0816E-10000 to GTH0816E-10699 and from GTH08E-10700 and GTH-1056 SN GTH1010-14001 to GTH1014-19340, GTH1014-19341 to GTH1014-20404, GTH1014E-10001 to GTH1016E-11303, GTH1016E-11304 to 11799, includes 16E-11281, 16E-11282, 16E-11286 from GTH10E-11800.
	12-VOLT, 10-TOOTH, 4.0 kW, CW, PLGR		
<b>GENIE</b> 	<b>29616GT</b>	29616	<b>GENIE</b> Scissor Lift Models GS-3384, GS-3390, GS-4390 and GS-5390, <b>GENIE</b> Boom Lift Models S-40, S-45, S-60, S-65 and S-85, <b>GENIE</b> Boom Lift Models Z45/22 IC, Z45/25 IC, Z45/25J, Z60/34 and Z80/60
	12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR		
<b>GENIE</b> 	<b>37950GT</b>	29551GT, 37950GT	<b>GENIE</b> Boom Lift Models S-40, S-45, S-60, S-65, S-80, S-85, Z-45-22 IC, Z-45/25J IC, Z-45/25 IC, Z-51/30J, and Z-60/34, <b>GENIE</b> Scissor Lift Models GS-3384, GS-3390, GS-4390, and GS-5390
	12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR		
<b>GENIE</b> 	<b>866101GT</b>	866101	<b>GENIE</b> Light Tower Models AL4, AL4000D2, AL4L, AL5, AL5000, AL5HT, AL5L, AL8000HT, RL4, RL4000, RL4000D2, and TML-4000.
	12-VOLT, 9-TOOTH, 1.2 kW, CW, OSGR		
<b>GRADALL (JLG)</b> 	<b>91033323</b>	9103-3323	<b>GRADALL (JLG)</b> Telehandler Models 534B-9, 534B-8, 534B-6, 544
	12-VOLT, 10-TOOTH, 2.5 kW, CW, DD		

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Part Number	Replaces	Used On
<b>GRADALL (JLG)</b>		
 <b>91534010</b> 12-VOLT, 11-TOOTH, 2.5 kW, CW, OSGR	9153-4010	<b>GRADALL</b> Telehandler Models 534D-10, 534D-9, and 544D
<b>GROVE</b>		
 <b>9414101545</b> 12-VOLT, 9-TOOTH, 2.2 kW, CW, OSGR	9-414-101545	<b>GROVE</b> Boom Lift Models A60J, A60J EURO, A60J D440, A60J D44R, T80, T86J, and T86J EURO
<b>GROVE</b>		
 <b>9414101735</b> 12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR	9-414-101735	<b>GROVE</b> Articulating Boom Lift Model A125J D44R
<b>GROVE</b>		
 <b>F87U11000A1B</b> 12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR	87U11000A1B	<b>GROVE</b> Telescopic Boom Lift Models MZ46C and MZ46CXT
<b>HANOMAG/MASSEY</b>		
 <b>29194800</b> 12-VOLT, 10-TOOTH, 3.0 kW, PLGR	291 948 00, 26194600, 261 946 00	<b>HANOMAG/MASSEY-Ferguson</b> Models MF 290, MF 3425, MF 3445, MF 3455.
<b>HATZ ENGINE</b>		
 <b>50496201</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR	50495901, 504959000733, 50495900, 50353510, 50353420, 000050495901	<b>HATZ</b> Engine Models 1D42/1D42C/1D42S, 1D50, 1D81/1D81C, 1D81Z, 1D90 V/W, 1D90/1D90Z, 1D90V

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	Part Number	Replaces	Used On
<b>HITACHI</b>			
	<b>S114-483A</b> 12-VOLT, 15-TOOTH, 1.4 kW, CW, OSGR	S114-257, S114-257G, S114-483	<b>HITACHI</b> Compact Excavator Models ZX30U-3F, ZX33U-3F, ZX35U-3F, ZX38U-3F, ZX48U-3F, and ZX50U-3F
<b>HITACHI</b>			
	<b>S114-883</b> 12-VOLT, 11-TOOTH, 1.2 kW, CW, PMGR	S114-817A, S114-817, S114-815A, S114-815	<b>HITACHI</b> machinery with <b>ISUZU</b> Engine Models 3CA1, 3CB1, 3CD1, 3CE1
<b>HITACHI</b>			
	<b>S114-940</b> 12-VOLTS, 9-TOOTH, 1.2 kW, CW, PMGR		<b>BOBCAT</b> 3400, 3400XL, 3450, 3600, and 3650 UTV all Model years. <b>POLARIS</b> Brutus and Ranger 900 DIESEL UTV 2011-2014 Model years
<b>HONDA</b>			
	<b>31210-ZB8-0130</b> 12-VOLT, 14-TOOTH, 0.5 kW, CCW, PMOSGR	31210-ZE3-013, 31210-ZE3-023, DB5B6, DB5B8	<b>HONDA</b> GX340 (11HP), GX390 (13 HP) and GX390K1 (13 HP).
<b>HYSTER</b>			
	<b>1374083</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR	1374083, 323812	<b>HYSTER</b> H-25-35XL, H-25-60XL, H-40-60XL, A-30XL, A-30XM, S-40-60XL S-40XLM S-50XL, S-60XL. With <b>ISUZU</b> C240, A187, B187, C187, 4.2L, C280 Engines,
<b>HYSTER</b>			
	<b>3010514</b> 12-VOLT, 10-TOOTH, 2.5 kW, CW, DD	3042508, 306727, 3136124	<b>PERKINS</b> Engine Models 3-152, 6-354, 4-203, 4-236, 1004, 1104C-44, 1104, INTERNATIONAL GERMAN Diesel Engine D-310

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## Part Number

## Replaces

## Used On

### HYSTER



**33001228**

12-VOLT, 11-TOOTH, 1.4 kW, CW,  
PMGR

GM (GENERAL MOTORS) 4.3L - 262ci - 6cyl, 5.0L - 305ci  
- 8cyl, 5.7L - 350ci - 8cyl, 7.4L - 454ci - 8cyl, 8.9L -  
540ci - 8cyl Engine

### INGERSOLL RAND



**13360516**

12-VOLT, 13-TOOTH, 2.5 kW,  
CW, OSGR

13284724

INGERSOLL RAND machinery with CUMMINS Engines  
Engine Models 4-390, 4T-390, 390, 5.9L ISB, B Series  
3.9L, B Series 5.9L, QSB 6.7 Tier I, and QSB 6.7 Tier II

### INGERSOLL RAND



**13502844**

12-VOLT, 10-TOOTH, 2.5 kW,  
OSGR

INGERSOLL RAND Rough Terrain Forklift Models RT-  
706J, RT-708J, T-708J.

### ISUZU



**5811001550**

12-VOLT, 9-TOOTH, 2.0 kW, CW,  
OSGR

5811001550, 5811001660, 5811001661,  
5811001662, 5811001663, 5811001664,  
5811001830, 5811001831, 8941233870,  
8941492490, 8941492490, 8944127301,  
8944489591

ISUZU Pick-up, ISUZU Trooper, ISUZU Engines C-190,  
C-240, 24A, A187, D187, C-201, D-201, C-223, 2.2L, KDB,  
2AB1, 3AB1, 4FA1

### JCB



**320/09454**

12-VOLT, 11-TOOTH, 4.2 kW,  
PLGR

320/09022, 320/09023, 320/09026,  
320/09032, 320/09035, 320/09144,  
320/09346, 320/09409, 320/09452







JCB Backhoe Loader Models 2CX, 3CX, 3CX PLUS, 3CX  
CLL, 4CX. JCB Telescopic Telehandler Models 535-95,  
54-140, 540-200. JCB Ag Loadall Models 524-50, 526-56,  
527-55, 531-70, 535-95, 536-60, 536-70, 541-70. JCB  
Engine Models JCB444, DIESELMAX Models NA, TC, TCA,  
ECOMAX Models TCAE. JCB GENSET Model G66 QX. JCB  
Compact Track Loader Model 225T

	Part Number	Replaces	Used On
<b>JCB</b>		<b>714/35600</b>	714-35600R, 714/40014, 714/40482
			<b>JCB</b> Backhoe Loader Models 1CX HI Flow, 1CX, MIDI CX, Compact Excavator Models 8008 CTS, 8010 CTS, 8014 CTS, 8016 CTS, 8018 CTS, 8020 CTS, 8025 ZTS, 8025 ZTS, 8030 CTS/ZTS, 8035 ZTS, 8045 ZTS, 8050 ZTS, Telehandler Model 524-50, 515-40, 520-40, Compact Track Loader Models 180 T/HF, 190 T/HF, Skid Steer Loader Models 135E, 135I, 135R, 150, 150TR, 155, 155E, 155I, 160 HI Flow, 160, 165 HI Flow, 165, 170 HI Flow, 170, 175, 180 HI Flow, 180 Tracked HI Flow, 180 Tracked, 180, 190, 190T, 205, 205T.
<b>JCB</b>		<b>714/40005</b>	714/40150, 714/29500R, 714/29500, 714/14300, 714/09000, 714/03100
			<b>JCB</b> Rough Terrain Forklift Models 926, 930, 940, Compact Excavator Models 805, 805B, 805BT, 806, 806B, 806C, 807, 807B, 807C, 808, 811, 812, 814, Loader Backhoe Models 5C, 6C, 7B, 7C, 8, 8C, 8D, 214, 215, 217, 2CX, 3C 1400, 3C 1550, 3D 1700, 3CX Sitemaster, 4CN, 1400, 1400B, 1000, 1200, 1250, 1500, 1500B, 1600B, 1700, 1700B. Crawler Loader Models 110, 110B, 110C. Wheel Loader Models 407, 408, 409, 410, 411, 412, 413, 415, 416, 418, 420, 430, 702, 704, 900, 902. Telehandler Model 520 Cherry Picker, 505, 506, 508, 510, 515, 520, 525B, 530, 530B, 540, 540B.
<b>JCB</b>		<b>714/40369</b>	JCB Forklift Models TLT35 and TLT35-WM
<b>JCB</b>		<b>714/40536</b>	71440231, 714/40531, 714/40231, 714/40159R, 714/40159
			<b>JCB</b> Backhoe Loader Models 2CX, 2CXS, 2CXSL, 2CXL, 2CX-Airmaster, 540 FS PLUS, 527-55S, 540, 528 AG, 2CX-SM.
<b>JLG</b>		<b>70005567</b>	70001149, 7027969
			<b>JLG</b> Articulating Boom Lift Models 450AJ Series II (SN 0300160835 TO 0300201990), 450A Series II (SN 0300160835 to present). Telescopic Boom Lift Models 600S (SN 0300087000 to 0300171768), 660SJ (SN 0300087000 to present with <b>GM</b> Engine)






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	Part Number	Replaces	Used On
<b>JLG</b> 	<b>70020352</b>		<b>JLG</b> Telehandler Models G10-55A, G12-55A
	12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR		
<b>JLG</b> 	<b>70021850</b>	70021850EX	<b>JLG</b> Telehandler Models G6-42A, G9-43A, and G10-43A (3.3L, 99HP Tier III <b>CUMMINS</b> Engines)
	12-VOLT, 9-TOOTH, 2.2 kW, CW, OSGR		
<b>JLG</b> 	<b>70024277</b>		<b>JLG</b> G6-42A prior to S/N 0160069037 & S/N 0160069037 to present G9-43A prior to S/N 0160069037 & S/N 0160069037 to present G10-43A prior to S/N 0160069037 & S/N 0160069037 to present (If equipped for ULS)
	12-VOLT, 11-TOOTH, 2.7 kW, CW, PLGR		
<b>JLG</b> 	<b>7016332</b>		<b>JLG</b> Boom Lift Models 40H, 400S, 45HA, 450A, 450AJ, 460SJ, 60HA, 600A, 600AJ, 600SJ, 601S, 660SJ, 600SJC, 800A, and 800AJ, <b>JLG</b> Scissor Lift Models 25RTS and 33RTS
	12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR		
<b>JLG</b> 	<b>7019986</b>	7012679	<b>JLG</b> Boom Lifts Models 800A, 800AJ, 800S, 860SJ, 740AJ, 450A, 450AJ, 600A, 600AJ, 600S, 600SJ, 100HX, 110HX, 100HXER, 100HX+6, 80H, 80HX, 80HX+66, 86HX, 60H, 60H+6, 70H, 60HA, 450A Series II, 450AJ Series II, 601S, <b>JLG</b> Scissor Lifts Models 400RTS, 500RTS, 3394RT, and 4394RT
	12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR		
<b>JLG</b> 	<b>7020413</b>	7000661	<b>JLG</b> Telescopic Boom Lift Models 40H, 40H+6, 60H, 60H+6, 70H, 80H, 80HX, 80HX+6, 86HX, 100HX, 100SX, 100HX+6, 100HX+10, 110HX, 110HXER, 110SX, 110SXJ, 120HX, 120SXJ.
	12-VOLT, 9-TOOTH, 3.0 kW, CW, PLGR		



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	Part Number	Replaces	Used On
<b>JLG</b> 	<b>7020479</b>	7020479EX	<b>JLG</b> Boom Lift Models 400S, 460SJ, 600A, 600AJ, 600S, 600SC, 600SJ, 601S, 660SJ, 660SJC, 800A, 800AJ, 800S, 860SJ, and 1250AJP, <b>JLG</b> Rough Terrain Scissor Lift Models 3394RT, 400RTS, 4394RT and 500RTS
	12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		
<b>JLG</b> 	<b>7023111</b>		<b>JLG</b> Rough Terrain Scissor Lift Models 260MRT, 330CRT, and 400CRT
	12-VOLT, 9-TOOTH, 0.8 kW, CW, DD		
<b>JLG</b> 	<b>7026921</b>		<b>JLG</b> Telehandler Models TF6-42, G6-42A, G6-42P, G9-43A, G10-43A, G10-55A, and G12-55A
	12-VOLT, 11-TOOTH, 4.8 kW, OSGR		
<b>JLG</b> 	<b>7029782</b>	7029782EX	<b>JLG</b> Telehandler Models 2505, G5-18A, G6-42A, G9-43A, G10-43A, G10-55A, G10-55A Accuplace, G12-55A, G12-55A Accuplace.
	12-VOLT, 10-TOOTH, 3.0 kW, PLGR		
<b>JLG</b> 	<b>91083456</b>	9108-3456	<b>JLG</b> Telehandler Models 534D-9, 534D-10, and 544D
	12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR		
<b>JOHN DEERE</b> 	<b>AM132702</b>	MIA11473, AM107322, AM131296	KOHLER Engine Models 20 to 27 HP
	12-VOLT, 10-TOOTH, 0.8 kW, CCW, PMDD		

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Part Number	Replaces	Used On
<b>JOHN DEERE</b>		
 <b>AM133646</b> 12-VOLT, 9-TOOTH, 0.6 kW, CCW, DENSO	MIA11409, SE501879	<b>JOHN DEERE</b> GATOR TH 6x4 675cc UTV and 732 and 757 Commercial Mowers
<b>JOHN DEERE</b>		
 <b>AM880978</b> 12-VOLT, 9-TOOTH, 1.1 kW, CW, PLGR	AM809215, AM879204, M809215, Y25238	<b>JOHN DEERE</b> Tractor Models 4010, 4100, 4110, <b>JOHN DEERE</b> GATOR UTV Models 2020, 2020A, 2030, 2030A, 4X2 HPX, TH6X4, MILITARY 4X4 & 6X4, XUV 850D, 855D, 865E, 865M, 865R, 855M, HPX 815E
<b>JOHN DEERE</b>		
 <b>M143512</b> 12-VOLT, 15-TOOTH, 0.7 kW, CCW, PMDD		<b>JOHN DEERE</b> Lawn Tractor Models LT166, LT170, LTR166, SST16 Spin Steer, SST18 Spin Steer all Model years, Bunker & Field Rake 1200 Hydro all Model Years
<b>JOHN DEERE</b>		
 <b>RE10464</b> 24-VOLT, 11-TOOTH, CW, DD		<b>JOHN DEERE</b> Wheel Loader Model 844, Crawler Excavator Model 990, Engine Models 8955T, 8955A.
<b>JOHN DEERE</b>		
 <b>RE540300</b> 12-VOLT, 11-TOOTH, 2.5 kW, CW, OSGR	TY6719, TY6688, TY25971, SE501402, SE501425, RE19275, RE51694, RE68470	<b>JOHN DEERE</b> Engine Models 4039DFM 4 CYL, 239ci, 3.9L 2000-2007, 4045DFM50, 4045, 4.5L 2004-2007, 4045DFM70 4 CYL, 276ci, 4.5L 2004-2207, 4045TFM 4 CYL, 276ci, 4.5L, 4045TFM50 4 CYL, 276ci, 4.5L, 4045TFM75 4 CYL, 276 ci, and 4.5L 2004-2007



Part Number	Replaces	Used On
<b>JOHN DEERE</b>		
 <b>RE540303</b> 12-VOLT, 10-TOOTH, 2.6 kW, CW, PLGR	RE531243, SE801844	<b>JOHN DEERE</b> Loader Models 244J, 304J and 324J, <b>JOHN DEERE</b> Skid Steer Loader Models 317, 320, 323D, 326D, 328D, 329D, 332, and 332D, <b>JOHN DEERE</b> Compact Utility Tractor Models 4120, 4320, 4520, and 4720, <b>JOHN DEERE</b> Compact Track Loader Model CT322, <b>JOHN DEERE</b> Engine Models 4024HF285, 4024HF295, 4024HF297, 4024TF220, 4024TF270, 4024TF280, 4024TF281, 4024TLV01, 4024TLV02, 4024TLV06, 4024TLV07, 4024TLV08, 4024TLV10, 4024TT001, 5030HF220, 5030HF270, 5030HF285, 5030HF286, 5030HF014, 5030TF220, and 5030TF270
<b>JOHN DEERE</b>		
 <b>RE540304</b> 12-VOLT, 9-TOOTH, 2.2 kW, CW, PMGR	RE40303, RE501844, RE508922, RM10034	<b>JOHN DEERE</b> Engine Models 4024TT003, 4024HF297, 4024TT012, 5030HF286, 5030TT003, 4024TT001, 4024TT002, 4024HT011, 4024HT015, 5030HF286, 5030HT014, 5030HT011, 5030HT012, 4024TLV04, 4024TLV05, and 4024TLV11
<b>JOHN DEERE</b>		
 <b>RE59588</b> 12-VOLT, 10-TOOTH, 2.5 kW, OSGR	SE501401, TY24436, RE50165, RE540301, RE54091	<b>JOHN DEERE</b> Engine Models 4039 and 4045. Utility Tractor Models 6100D, 6110D, 6115D, 6125D, 6130D, 6140D. Windrower Models 4890 and 4895.
<b>JOHN DEERE</b>		
 <b>RE70957</b> 12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		<b>JOHN DEERE</b> Tractor Models 7610, 7710, 7720, 7810, 7820, 7920, 8100, 8200, 8300, and 8400, Loader Model 1850, Engine Models 4045, 6059, 6068, 6076, 6081, 6125, and 6135

## Part Number

## Replaces

## Used On

### JOHN DEERE



**SE501403**

12-VOLT, 11-TOOTH, 4.0 kW,  
OSGR

RE501294, RE501298, RE61406

**JOHN DEERE** Backhoe Loader Models 310E, 310G, 310J, 310SE, 310SJ, 310SJ TMC, 315SE, 315SG, 315SJ, 325J, 410E, 410G, 410J, 410J TMC, 710D, 710G, 710J, Crawler Dozer Models 450H, 550H, 650H, Landscape Loader Models 210LE, 210LJ, Combine Models CTSII, S540, S550, T550, T560, T660, T670, W540, W550, W650, 2054, 2056, 2058, 2064, 2066, 2254, 2256, 2258, 2264, 2266, 9410, 9510, SH9510, 9550, 9550SH, 9570 STS, 9540WTS, 9560WTS, 9580WTS, 9650 CTS, 9650STS, 9750STS, 9780CTS, 9780i CTS, Wheel Loader Models L514, L524, L528. Fits **JOHN DEERE** Rough Terrain Forklift Models 485E, 486E, 488E.

### KAWASAKI



**21163-2133**

12-VOLT, 9-TOOTH, 0.7 kW,  
CCW, DD

21163-2114, 21163-2118

**KAWASAKI** KAF620 MULE 2500, 2510 4X4, 2520 TURF and other equipment with **KAWASAKI** 23HP, 617cc Engines.

### KAWASAKI



**21163-7015**

12 VOLT, 9-TOOTH, 0.6 kW,  
CCW, DENSO

21163-7004

**KAWASAKI** 15.5HP, 21HP, 23HP, and 25HP Engines

### KOBELCO



**VV12913677011**

12-VOLT, 15-TOOTH, 1.4 kW, CW,  
OSGR

**KOBELCO** Compact Excavator Models 50SR, 50SR-3, 50SR-5, and SK55SRX

### KOMATSU



**129698-77010**







12-VOLT, 11-TOOTH, 1.2 kW, CW,  
PMGR

129242-77010, 121370-77010

**KOMATSU** machinery with **ISUZU** Engine Models 3CA1, 3CB1, 3CD1, 3CE1

Part Number	Replaces	Used On
<b>KOMATSU</b>		
 <b>600-863-1410</b> 12-VOLT, 9-TOOTH, 2.2 kW, CW, OSGR	600-863-1310	<b>KOMATSU</b> machinery with <b>CUMMINS</b> B3.3L, B303T & QSB 4.5T Engines from 2003 on
<b>KOMATSU</b>		
 <b>YM171008-77010</b> 12-VOLT, 15-TOOTH, 1.4 kW, CW, OSGR		<b>KOMATSU</b> machinery with <b>YANMAR</b> Engine Models 4T95, 3T84C, 4TNE84, 4JH3-TE-YEU, 4JH3-TE, 4JH3ZA, 4JH3-THE, 4JH3-TCE, 4JH3, 4JH3-CE, 4JH2-UTE, 4JH2L-HTNE
<b>KUBOTA</b>		
 <b>17341-63011</b> 12-VOLT, 9-TOOTH, 1.4kW, CW, OSGR	15401-63010, 15401-63011, 15401-63012, 15461-63010, 15461-63011, 15461-63012, 15461-63013, 15461-63014, 15461-63015, 15511-63010, 15511-63011, 15521-63012, 17298-63011, 17341-63010	<b>KUBOTA</b> Engine Models D1301A, D1302, D1302DI, D1402, D1402BH, D1702, D1703-B, D1902, D1902BH, V1402, V1500A, V1702DIA, V1902B, V2203, V2203E, S2800B, F2803, F2803E
<b>KUBOTA</b>		
 <b>17490-63014</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR	17123-63016, 17123-63013, 16652-63013, 15425-63016, 15425-63014, 15425-63013, 15425-63012, 15425-63011, 15425-63010	<b>KUBOTA</b> Engine Models V2403MT, V2203, V2203E
<b>KUBOTA</b>		
 <b>19837-63012</b> 12-VOLT, 9-TOOTH, 0.8 kW, CW, DD	15852-63010, 15852-63011, 15852-63012, 15852-63013, 15852-63014, 19827-63013, 19837-63010, 19837-63011	<b>KUBOTA</b> Engine Models WG750, D600B, D640B, WG600B, Z430-KI, WG750-G, Z400, Z430, D600

Part Number	Replaces	Used On
<b>KUBOTA</b>		
 <b>1K012-63013</b> 12-VOLT, 9-TOOTH, 3.0 kW, CW	1k012-63012, 1K012-63011, 1K012-63010, K1G777-63010, K1G777-63011, K1G777-63012, K1G77763010, K1G77763011, K1G77763012, K1K012-63012, K1K01263012	<b>KUBOTA</b> Engine Models V3307-TE, V6108-CR-TIER4, V6108EC3QB, V61CTIE4BQ, V6108EB3QB, V3800DI-T. Utility Tractor Models M126GXDT, M126XDTC, M126XDT-PC, M135GXDT, M135XDTC. Skid Steer Models SSV75, SSV75C, SSV75P, SSV75PC. Compact Track Loader Models SVL75, SVL75-2, SVL75-2C, SVL75C. Manitou Telescopic Handler Model MLT625-75H. Tug Belt Loader Model 660-36. Tug Tow Tractor Model MA-36.
<b>KUBOTA</b>		
 <b>67955-59211</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, OSGR	16611-63010, 16611-63011, 16611-63012, 16611-63013, 37560-63010, 37560-63011, 37560-63012	<b>KUBOTA</b> Engine Models D1005, V1505-B, V1305B, D1105T, and D905B.
<b>KUBOTA</b>		
 <b>67980-31152</b> 12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR		<b>KUBOTA</b> D722 & D782 Dual Fuel Engines.
<b>KUBOTA</b>		
 <b>E7194-63010</b> 12-VOLT, 10-TOOTH, 0.8 kW, CCW, PMDD	E7194-63012, E7185-30330	<b>KUBOTA</b> machinery with KOHLER Engine Models 20 to 27 HP
<b>KUBOTA</b>		
 <b>EG371-63011</b> 12-VOLT, 9-TOOTH, 0.6 kW, CCW, DENSO	EG371-63010	<b>KUBOTA</b> ZG327P Zero-Turn Mower 2008

	Part Number	Replaces	Used On
<b>KUBOTA</b>			
	<b>K3511-81411</b> 12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR	16225-63010, 16225-63012, 19007-63011, 19837-63010, 19837-63011, 19837-63013, 1G023-63010, 1G023-63011, 6A320-59210, 6A320-59212, K3511-81410, K3511-81411	<b>KUBOTA</b> Engine Models D722, D782, and WG-973
<b>LEECE NEVILLE</b>			
	<b>66925090S</b> 12-VOLT, 10-TOOTH, 2.8 kW, CW, DD		<b>PERKINS</b> Engine Models 4-236, 4-248, 4-318, 6-354
<b>LUCAS</b>			
	<b>LRS01353</b> 12-VOLT, 14-TOOTH, 0.5 kW, CCW, PMOSGR		<b>HONDA</b> GX340 (11HP), GX390 (13 HP) and GX390K1 (13 HP).
<b>LULL</b>			
	<b>10732572</b> 12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR	P32572	<b>LULL</b> Telehandler Models 644B-37, 644B-42, 6K-37, 6K-42, 1044C-42, 1044C-54, 10K-42, 10K-54, 844C-42, and 8K-42
<b>LULL</b>			
	<b>70020352</b> 12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR		<b>LULL</b> Telehandler Models 644E-42, 944E-42
<b>LULL</b>			
	<b>7026666</b> 12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR		<b>LULL</b> Telehandler Models 644E-42 and 944E-42

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## Part Number

## Replaces

## Used On

### MAK TRUCK

#### 8MJ176



24-VOLT, 11-TOOTH, CW, DD

**MAK TRUCK** with **FIAT-ALLIS 8205, 25000 MKII** Engine or **CATERPILLAR (CAT) Engine Models 3406, 3408, 3412, 3508, 3512, 3516, D342, D343, D346, D353**

### MAHLE-LETRIKA

#### IS 0841



12-VOLT, 9-TOOTH, 3.0 kW, CW, PLGR

IS 1254, IS0841, ISK-IS0841, MS 446, MS446

**JLG** Telescopic Boom Lift Models 40H, 40H+6, 60H, 60H+6, 70H, 80H, 80HX, 80HX+6, 86HX, 100HX, 100SX, 100HX+6, 100HX+10, 110HX, 110HXER, 110SX, 110SXJ, 120HX, 120SXJ. **DEUTZ** Engine Models 3-172, 3-187, 4-230, 4-249, 6-374, F3L912, F3L913 F3L914, F4L912, F4L913, F4L914, F5L912, F5L914, F6L912, F6L913, F6L914, BF6L913/C, BF4M2012/C, TCD2012 L04, TCD2012 L06, BF4M1011/F, BF4M1012E/EC, BF4M1013E/EC, BF6M1013 FC, BF5M1011, BF3L914, BF6M1012/E, BF6M2012C, BF4L913/T. **BOMAG** Articulated Tandem Roller Models 211, 211B, BW 141AC, BW 190 AD-4, BW 203 AD-4 AM, BW 24 RH, BW 25 RH, BW 27 RH, BW 211 PD-40, BW 212 D-40, BW 216 D-40.

### MAHLE-LETRIKA

#### IS 1090



12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR

MS 148

**CUMMINS** B Series 3.9L and 5.9L 94-ON **CUMMINS** 4-239, 4.236M 3860CC, QSB 6.7 TIER I and II, 6-359, 6BT 5.9L 6 CYL 359 ci, 6BTA5.9-M 6 CYL 359 ci, 4BT3.9L

### MAHLE-LETRIKA

#### IS 1105



12-VOLT, 11-TOOTH, 4.2 kW, PLGR

MS 84

**JCB** Backhoe Loader Models 2CX, 3CX, 3CX PLUS, 3CX CLL, 4CX. Telescopic Telehandler Models 535-95, 54-140, 540-200. Ag Loadall Models 524-50, 526-56, 527-55, 531-70, 535-95, 536-60, 536-70, 541-70. Engine Models **JCB444**, **DIESELMAX** Models NA, TC, TCA, **ECOMAX** Models TCAE. **GENSET** Model G66 QX. Compact Track Loader Model 225T

### MAHLE-LETRIKA

#### IS 1150



12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR

IS 1150, MS 432, MS432, 11.130.923

**BOMAG** Reversible Vibrating Plate Models BPR 50/52 D-3, BPH 80/65S, BPR 100/80D, BPR 70/70D. **HATZ** Engine Models 1D42/1D42C/1D42S, 1D50, 1D81/1D81C, 1D81Z, 1D90 V/W, 1D90/1D90Z, 1D90V.






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Part Number	Replaces	Used On
<b>MAHLE-LETRIKA</b>  <b>IS 1217</b> 12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR	IS 1073, IS 1454, MS 27, MS 28	<b>DEUTZ</b> Engine Models BF4L2011, D2011 L2i, BM2011F, BF4M2011, F3M, D2011 L02, D2011 L03i, L2011 L03, F2M2011, F3M2011F, BF3M2011F, F3M2011, F3L2011, F3L1011, F3L1011F, TD2011 L04w, BF2011, TD2011 L04i, BF3L2011, BF3M2011, BF4M2100, BF4L1011, BF4L1011FT, F2L2011, F4L2011, F4M2011, TCD2011 L4, F4M. <b>INGERSOLL RAND</b> Mini Excavator ZX75. <b>VERMEER</b> Ride on Trencher RT450. <b>BOBCAT</b> Compact Excavator 442. <b>WACKER NEUSON</b> Compact Track Loader 1101P, Skid Steer Loader 901S/SP, Wheel Dumpers 1001, 6001, 9001 and Wheel Loader WL48
<b>MAHLE-LETRIKA</b>  <b>IS0490</b> 24-VOLT, 9-TOOTH, 4.0 kW, CW, DD	IS 0490, MS186, MS 186	<b>FIAT-ALLIS (CNH) 8065 engines</b>
<b>MAHLE-LETRIKA</b>  <b>IS0492</b> 24-VOLT, 9-TOOTH, 4.0 kW, CW, DD	IS 0492, MS387, MS 387, 11.130.492, 11.130.225	<b>FIAT-ALLIS</b> Crawler Loader Models FL-5, FL-5B. Motor Grader Model 65B. Wheel Loader Model FR70
<b>MAHLE-LETRIKA</b>  <b>IS1071</b> 12-VOLT, 10-TOOTH, 3.0 kW, CW, PLGR	IS 1071, IS1195, IS 1195, MS111, MS 111, MS289, MS 289	<b>PERKINS</b> Engine Models 1004C-44TA G2, 1104C-44T G3, 1104C-44T AG1, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44T, 1006-60T.
<b>MAHLE-LETRIKA</b>  <b>IS1072</b> 12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR	MS619, MS30	<b>DEUTZ</b> Engine Models F4L2011, F4L1011, F3L2011, F3L1011, F3L1011F, BF4L1011FT, BF4L1011, F2L1011, and F4L1011F

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Part Number	Replaces	Used On
<b>MAHLE-LETRIKA</b>  <b>IS1101</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR	IS 1101, MS86, MS 86, 11.131.267, AZE2155	<b>PERKINS</b> Engines 103-13 3 CYL-21 KW, 103-15 3 CYL-23.5KW, 104-19 4 CYL 32KW, 104-22 4 CYL-37KW, 403C-07 3R-13.4KW, 403C-10 3R-13.6KW, 403C-10 3R-16.6KW, 403C-11 3R-19.5KW, 403C-11G, 403C-15 3R-25.1KW, 403C-15G, 404C-20 4R-38KW, 404C-22G 4R-38KW, 404C-22T 4R-44.7KW, 403D-11, 403D-11G, 403D-15, 404D-22, 403G-15G, 404D-22G, 403D-II-TIER 3, 404-22D TIER 3, 404DT-22. <b>CATERPILLAR (CAT)</b> Engine Models C2.2, 3024C, C1.5, 3013, 3013C, 3024, 3024C, 3014
<b>MAHLE-LETRIKA</b>  <b>IS1109</b> 12-VOLT, 10-TOOTH, 3.0 kW, PLGR	IS 1109, MS168, MS 168, MS677, MS 677	<b>NEF</b> Tier 3, Tier 4 and <b>IVECO</b> Engines.
<b>MAHLE-LETRIKA</b>  <b>IS1154</b> 12-VOLT, 10-TOOTH, 2.6 kW, CW, PLGR	MS 221	<b>JOHN DEERE</b> Engine Models 4024HF285, 4024HF295, 4024HF297, 4024TF220, 4024TF270, 4024TF280, 4024TF281, 4024TLV01, 4024TLV02, 4024TLV06, 4024TLV07, 4024TLV08, 4024TLV10, 4024TT001, 5030HF220, 5030HF270, 5030HF285, 5030HF286, 5030HF014, 5030TF220, and 5030TF270
<b>MAHLE-LETRIKA</b>  <b>IS1183</b> 24-VOLT, 11-TOOTH, CW, DD	IS 1183, MS77	<b>FIAT-ALLIS</b> 8205, 25000 MKII Engine. <b>CATERPILLAR (CAT)</b> Engine Models 3406, 3408, 3412, 3508, 3512, 3516, D342, D343, D346, D353
<b>MAHLE-LETRIKA</b>  <b>IS1378</b> 12-VOLT, 10-TOOTH, 2.8 kW, CW, DD	IS 0509, MS 345, MS345, IS0629, IS 0629, MS385, MS 385	<b>PERKINS</b> Engine Models 4-236, 4-248, 4-318, 6-354.

Part Number	Replaces	Used On
<b>MAHLE-LETRIKA</b>  <b>IS1454</b> 12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR	MS 27, MS 641, IS1073	<b>DEUTZ</b> 1011 and 2011 Engines, <b>INGERSOLL RAND</b> Mini Excavator ZX75, <b>VERMEER</b> Ride on Trencher RT450, <b>WACKER NEUSON</b> Compact Track Loader 1101P, Skid Steer Loader 901S/SP, Wheel Dumpers 1001, 6001, 9001 and Wheel Loader WL48
<b>MAHLE-LETRIKA</b>  <b>MS399</b> 12-VOLT, 10-TOOTH, 3.0 kW, PLGR	IS1201, IS 1201	<b>PERKINS</b> Engine Models 1104D-44TA, 1104D-E44TA, 1104A-44, 1104D-44T, 1103D-33, 1103D-33TA, 854E-34TA, 1103C33T, 854E-E34TA, 3-165 64.4HP. <b>CATERPILLAR(CAT)</b> Engine Models 3054C.
<b>MARELLI</b>  <b>63216725</b> 24-VOLT, 9-TOOTH, 4.0 kW, CW, DD	63216726, 63216727, 63216731	<b>FIAT-ALLIS</b> Engine models 8045, 8051, 8061 <b>IVECO</b> Engine model 8041
<b>MAZDA</b>  <b>ZZC1-18-400</b> 12-VOLT, 11-TOOTH, CW, PMGR	L3H5-18-400	<b>FORD</b> MSG-425 Engine
<b>MAZDA</b>  <b>ZZP1-18-400</b> 12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR	ZZM0-18-400	<b>FORD</b> LSG/LRG423 Engines

## Part Number

## Replaces

## Used On

### MERCURY MARINE



**50-863007A1**

12-VOLT, 11-TOOTH, 1.4 kW, CW,  
PMGR

50-807904A1, 50-806964A3

**GM (GENERAL MOTORS)** 4.3L - 262ci - 6cyl, 5.0L - 305ci - 8cyl, 5.7L - 350ci - 8cyl, 7.4L - 454ci - 8cyl, 8.9L - 540ci - 8cyl Engine

### MINNPAR



**57-1255**

24-VOLT, 9-TOOTH, 4.0 kW,  
CW, DD

**MINNPAR** 110521, **BOSCH** 0-001-360-043, 0-001-368-019, **FIAT-ALLIS (CNH)** 77445430, 77444430, 77414430, 7740560, 77080560, 77040561, 500326185, 4807378, 4755108, 4737754, 4723281, 4701920, 4699704, 4692477, 4682999, **WILSON** 91-19-2510, 91-15-6952, **MAHLE-LETRIKA (ISKRA)** IS0492, IS 0492, MS387, MS 387, 11.130.492, 11.130.225, Marelli 63216725, 63216726, 63216727, 63216731, **DELCO** DRS1310, DRS1160, **WAI** 2-2283-B0, **IVECO** 4807378

**FIAT-ALLIS** Crawler Loader Models FL-5, FL-5B. Motor Grader Model 65B. Wheel Loader Model FR70

### MINNPAR



**57-1256**

24-VOLT, 9-TOOTH, 4.0 kW,  
CW, DD

**MINNPAR** SB00072, **FIAT-ALLIS (CNH)** 4706008, 4716026, 4716062, 4737756, 4755111, 4807379, 77050262, 77050562, 04755111, **WILSON** 91-15-7153, 91-19-2509, **DELCO** 19024232, 19024256, DRS1330, **WAI** 50-9122, 50-9122-1, **MAHLE-LETRIKA (ISKRA)** IS0490, IS 0490, MS186, MS 186

**FIAT-ALLIS (CNH)** 8065 engines

### MINNPAR



**57-1258**

12-VOLT, 11-TOOTH, 2.2 kW, CW,  
PLGR

**ATLAS COPCO** 2913173200, 2913175500, **BOMAG** 057 180 62, **BOSCH** 0-001-218-172, 0-001-218-772, **DELCO** DRS7430, 69311, **GEHL** 132299, 133557, **GENIE** 29551, 29551GT, 37950, 37950GT, **JLG** 7016332, **MAHLE-LETRIKA** MS619, MS30, IS 1072, **MINNPAR** 57-4230, 57-4762, **WAI** 2-1946-B0, **WILSON** 91-15-7066, 91-15-7142

**DEUTZ** Engine Models F4L2011, F4L1011, F3L2011, F3L1011, F3L1011F, BF4L1011FT, BF4L1011, F2L1011, and F4L1011F

## Part Number

## Replaces

## Used On

### MINNPAR



**57-1263**

24-VOLT, 11-TOOTH, 9.0 kW,  
CW, DD

**CAT** 207-1556, 0R2187, 0R2190, 0R2697, 0R4259, 0R5209, 104-7041, 104-7042, 106-8551, 10R0400, 1M6132, 1N9412, 3T2651, 3T2653, 3T5831, 3T8952, 4N0957, 4N1062, 4N5471, 5L4171, 5L4431, 5L4513, 6N1889, 6T0643, 6V0513, 6V5539, 6V5540, 7T0796, 7T9162, 8C3645, 8L8207, 9G6096, 9G6097, **NEW HOLLAND** 1990463, 4780974, **CUMMINS** 3021036, 3201036, 3328552, 3603862, 3604321RX, 3604658RX, 3632274, **DELCO** 10461024, 10461030, 100461043, 10461054, 10461068, 10461128, 10461184, 10461259, 10478937, 10478938, 10478943, 10478952, 10478980, 1113818, 1113931, 1113966, 1990344, 1990368, 1990383, 1990390, 1990410, 1990418, 1993978, **WILSON** 91-01-3782, 91-01-4159

**CATERPILLAR (CAT)** 3402, 3406, **CUMMINS** L Series, 855, NTC, NTA, NH, and DETROIT DIESEL DD4-71/DD4-71D Engines

### MINNPAR



**57-1267**

24-VOLT, 11-TOOTH, CW, DD

**MINNPAR** 57-1365, 57-1264, 104-4930, Fastenal Rotating Core 5100866, **FIAT-ALLIS** (CNH) 70675686, 70697811, 73114229, 73130196, 73130197, 73130198, 73130198, 70620382, 70622235, 73061273, 73069398, 73116947, 73117237, 73130194, 73130195, 73130625, 74322524, 74387529, 74396759, **DELCO** 1993852, 1109979, 10461057, **CUMMINS** 135162, 3021036, 3603862, 706620, **CATERPILLAR** 9L6474, 8L8205, 6V0890, 6T0640, 6N9677, 5N2685, 5L648, 4N3343, N0959, 3T8949, 3L8205, 269-2757, 237-1962, 10R1852, 10R-9815, 0R5213, 104-3745, 3T2646, 3T3153, 4N8118, 4N957, 5L2537, 5L2637, 6N3122, 7L8797, 7T0794, 8C3644, 8H1813, 9G5584, 9G5585, 9G8854, 9L6691, 9N0435, 9N0453, FordE2HT-11001-DA, E3HZ-11002-A, E3HZ-11002-B, E3HZ-11002-C, SA-721, SA-744, SA-745, SA-747, C4TF-11000-A, C4TF11000A, C4TFA, C4TZ-11002-A, C4TZ11002A, **MAHLE-LETRIKA** IS 1183, MS77, **JOHN DEERE** RE10464, **WILSON** 91-01-3948, **VOLVO-MICHIGAN** M0964485, M0946052, E4087262, 964485, 946052, 4087262, **CASE** 307822R92, 307822C92, 313979C92, 313979R92, 317941R92, 439677R91, 61694062, 627589C91, 690400C91, 755496C91, 989969C91, 989969R91, 9968591, **MOTOROLA** MS1-401A, MACK TRUCK 8MJ176

**FIAT-ALLIS** 8205, 25000 MKII Engine. **CATERPILLAR (CAT)** Engine Models 3406, 3408, 3412, 3508, 3512, 3516, D342, D343, D346, D353.

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## Part Number

## Replaces

## Used On

### MINNPAR



**57-1278**

12-VOLT, 10-TOOTH, 2.8 kW,  
CW, DD

**PERKINS** 2873006T, 2873A029,  
2873B055, 2873B072, 2873B073,  
**MINNPAR** 2873A029, Volvo-Michigan  
M3551918, 3551918, **JCB** 714/40005,  
714/40150, 714/29500R, 714/29500,  
714/14300, 714/09000, 714/03100,  
**WILSON** 91-17-8880, Leece Neville  
66925090S, **MAHLE-LETRIKA** (ISKRA)  
IS1378, IS 1378

**PERKINS** Engine Models 4-236, 4-248, 4-318, 6-354.

### MINNPAR



**57-1280**

12-VOLT, 9-TOOTH, 1.2 kW, CW,  
PMGR

**MITSUBISHI** M1T60081, M1T60381, **NAPA**  
17437, 17437N, **NISSAN** 23300-K9160,  
23300-W9810, **WAI** 17437N, 2-1444-MI,  
**WILSON** 91-27-3150

**NISSAN** A15, H20, H25, Z24 Engines

### MINNPAR



**57-1288**

12-VOLT, 9-TOOTH, 0.8 kW,  
CW, DD

**DELCO** RS41172, 69203, **GENIE** 52810,  
52810GT, 32193, 32193GT, 23456,  
23456GT, **JLG** 7023111, **KUBOTA** 15852-  
63010, 15852-63011, 15852-63012,  
15852-63013, 15852-63014, 19827-63013,  
19837-63010, 19837-63011, 19837-63012,  
**MITSUBISHI** M003T33481, 02T30481,  
M2T42381, M2T42382, M3T33481,  
M3T49981, M3T49982, **NAPA** 16791,  
RN18162, 16791N, SNORKEL 8110060, **WAI**  
2-1445-MI, **WILSON** 71-27-16791, 91-27-  
3154, 91-27-3154N

**KUBOTA** Engine Models WG750, D600B, D640B,  
WG600B, Z430-K1, WG750-G, Z400, Z430, D600

### MINNPAR



**57-1293**

12-VOLT, 11-TOOTH, 2.5 kW, CW,  
OSGR

**BOBCAT** 6631597, 6632415, **DENSO**  
9702809-840, 028000-8400, 028000-  
8401, 028000-8403, 228000-6470,  
**GRADALL (JLG)** 9153-4010, 91534010,  
**JOHN DEERE** TY6719, TY6688, TY25971,  
SE501402, SE501425, RE19275, RE51694,  
RE68470, RE540300, **WAI** 2-1750-ND,  
50-8422, 2-1803-B0-2, and **WILSON**  
91-29-5106, 91-29-5372

**JOHN DEERE** Engine Models 4039DFM 4 CYL, 239ci,  
3.9L 2000-2007, 4045DFM50, 4045, 4.5L 2004-2007,  
4045DFM70 4 CYL, 276ci, 4.5L 2004-2207, 4045TFM  
4 CYL, 276ci, 4.5L, 4045TFM50 4 CYL, 276ci, 4.5L,  
4045TFM75 4 CYL, 276 ci, and 4.5L 2004-2007

## Part Number

## Replaces

## Used On

### MINNPAR



#### 57-1295

12-VOLT, 10-TOOTH, 2.5 kW,  
CW, DD

**MINNPAR** 126-17388, **DELCO** 1107868, 1107540, 1108644, 1108697, 1109189, 1109258, 1109269, 12301346, 1998331, 1998350, 1998357, 1998446, 1998484, 323-689, **DENSO** 128000-7042, 128000-7041, 128000-7040, 128000-4093, 128000-4092, 128000-4091, 128000-4090, **WILSON** 91-29-5130, 91-01-4282, 91-01-4208, **CATERPILLAR** (CAT) 8T9685, 7C4622, 676372, 143-0537, 106-8553, **GRADALL** (JLG) 91033323, 9103-3323, **HYSTER** 3010514, 3042508, 306727, 3136124.

**PERKINS** Engine Models 3-152, 6-354, 4-203, 4-236, 1004, 1104C-44, 1104, International German DIESEL Engine D-310, **NEW HOLLAND** Skid Steer Loader Models L783 (1989-1995), L785 (1989-1994), **CATERPILLAR** (CAT) Wheel Tractor-Scraper Models 623E, 627G, 621E, 621F, 623F, 627E, 627F, 621G, Telehandler Models RT60, RTC60, RT50SA, RT50, Cold Planer Model PR-75, Paving Compactor Models CS-323, CP-323, CS-433B, CP-433B, **GRADALL** (JLG) Telehandler Models 534B-9, 534B-8, 534B-6, 544.

### MINNPAR



#### 57-1300

12-VOLT, 9-TOOTH, 1.4kW, CW,  
OSGR

**BOBCAT** 6653920, 6655896, 6662323, 6988700, **CASE** 503470, **DENSO** 9712809-017, 9722809-102, 028000-4200, 028000-4991, 028000-6261, 128000-0171, 128000-0181, 128000-6640, 228000-1022, 228000-4920, **KUBOTA** 15401-63012, 15461-63015, 15511-63011, 15521-63012, 17298-63011, 17341-63011, **WAI** 2-2107-ND, **WILSON** 91-29-5120, 91-29-5212, 91-29-5214

**KUBOTA** Engine Models D1301A, D1302, D1302DI, D1402, D1402BH, D1702, D1703-B, D1902, D1902BH, V1402, V1500A, V1702DIA, V1902B, V2203, V2203E, S2800B, F2803, F2803E.

### MINNPAR



#### 57-1303

12-VOLT, 9-TOOTH, 2.0 kW, CW,  
OSGR

**CUMMINS** 3675152RX, **DENSO** 028000-5060, 028000-6440, 028000-6441, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7790, 028000-7791, 128000-0020, 128000-0021, 128000-0022, 128000-0960, 128000-2880, 128000-2881, **HYSTER** 1374083, 323812, **ISUZU** 2912559140, 5811000860, 5811001550, 5811001660, 5811001661, 5811001662, 5811001663, 5811001664, 5811001830, 5811001831, 8941233870, 8941492490, 8944127300, 8944127301, 8944489591, **JOHN DEERE** AM108722, GV11567, **NAPA** 16739, 16739N, 244-6031, 244-6090, 244-6379, 44-6031, 44-6090, 44-6379, **WILSON** 91-29-5030, 91-29-5074, 9-29-5074N

**JOHN DEERE** Skid Steer Loaders, ELGIN Sweepers, **HYSTER** Forklifts, THERMO KING Refrigeration, CHEVROLET Luv Pickup, **ISUZU** Pickup, **ISUZU** Trooper,

**Part Number**
**Replaces**
**Used On**

## MINNPAR



### 57-1316

12-VOLT, 10-TOOTH, 2.9 kW,  
CW, OSGR

**BOBCAT** 6633058, 6651636, **CATERPIL-LAR(CAT)** 9G-6941, 0R-4315, **CUMMINS** 360481RX, 3604482RX, 3901365, 3901386, 3904445, 3905480, 3909913, 3916854  
**DELCO** 10465149, 10496882, 10496883, 1113593, 19136124, 1998408, 1998423, 1998456, 1998457, 1998490, 10465043  
**FORD** E3TF-11000-AA, E3TZ-11002-B, E4TF-11000-AA, **LULL** P32572, 10732572,  
**MAHLE-LETRIKA**(ISKRA) IS 1090, MS 148,  
**NAPA** 76126, 46-5032, **SKYTRAK** 8270417, 8270420, 8033340, SUPER PAC SP203207, 203207, **WAI** 2-1631-DR, 2-1749-DR, **WIL-SON** 91-01-3894

**GROVE MANLIFT, CATERPILLAR (CAT), BOBCAT, SKY-TRAK, LULL, and SUPERPAC** Machinery with **CUMMINS** or **FORD** Engines

## MINNPAR



### 57-1399

12-VOLT, 11-TOOTH, 2.7 kW, CW,  
PLGR

**BOBCAT** 6676957, 6685190REM, DSL6676957, 6685190, **VALEO** TM000A28901, and **WILSON** 91-31-9008

**KUBOTA** Engine Models V1505, V1903EB, V2203EB V2003/V2403, V2607, V2607DIT, V3300, V3300DI, V3307DIT, and V3800DI-T

## MINNPAR



### 57-1410

12-VOLT, 13-TOOTH, 2.5 kW,  
CW, OSGR

**CASE** 104452A1, 1044552A2, 1987559C1, A170746, 87350916, 86982709,  
**CUMMINS** 36044660RX, 3604485NW, 3604460NW, 3675154NW, 3904466, 3920403, 3920643, 3926960, 3957586, 3957586, 3957594, 3964427, 3964428, 3964432, **DELCO** 69001, 93545, 10465540, **DENSO** 128000-0216, 128000-0545, 128000-2270, 128000-9501, 128000-9504, 228000-0620, 228000-1953, 9712809-021, 9712809-950, 428000-1860, **INGERSOLL RAND** 13284724, 13360516, **JLG** 9108-3456, 91083456, **LULL** 7026666, MANLIFT 9-414-101735, 9414101735, **MINNPAR** 57-1497, 57-4853, 57-5073, **NAPA** 44-0233, 16990, 16990N, 717390, 717390N, **SKY-TRAK** 8270428, TEREX 69288, TOYOTA 28100-36E03, **WAI** 2-1526-ND, **WILSON** 91-29-5138, 91-29-5581, 91-29-5616

**CUMMINS** Engine Models 4-390, 4T-390, 390, 5.9L ISB, B SERIES 3.9L, B SERIES 5.9L, QSB 6.7 Tier I, and QSB 6.7 Tier II



## Part Number

## Replaces

## Used On

### MINNPAR



**57-1431**

12-VOLT, 11-TOOTH, 4.0 kW,  
OSGR

**MINNPAR** 57-3248, 57-4229, 126-18457,  
**JOHN DEERE** SE501403, RE501294,  
RE501298, RE61406, **DENSO** 228000-  
7873, 9722809-787, 228000-7872,  
228000-7871, 228000-7870, 228000-  
5281, 228000-5280, **WILSON** 91-29-  
5458, **WAI** 2-2726-ND, 2-2726-ND-2

**JOHN DEERE** Backhoe Loader Models 310E, 310G, 310J,  
310SE, 310SJ, 310SJ TMC, 315SE, 315SG, 315SJ, 325J, 410E,  
410G, 410J, 410J TMC, 710D, 710G, 710J, Crawler Dozer  
Models 450H, 550H, 650H, Landscape Loader Models  
210LE, 210LJ, Combine Models CTSII, S540, S550, T550,  
T560, T660, T670, W540, W550, W650, 2054, 2056, 2058,  
2064, 2066, 2254, 2256, 2258, 2264, 2266, 9410, 9510,  
SH9510, 9550, 9550SH, 9570 STS, 9540WTS, 9560WTS,  
9580WTS, 9650 CTS, 9650STS, 9750STS, 9780CTS, 9780i  
CTS, Wheel Loader Models L514, L524, L528. Fits **JOHN**  
**DEERE** Rough Terrain Forklift Models 485E, 486E, 488E.

### MINNPAR



**57-1465**

12-VOLT, 11-TOOTH, 4.8 kW,  
OSGR

**DENSO** 228000-6550, 228000-6551,  
228000-6552, **JOHN DEERE** RE70474,  
RE70960, RE79474, SE501405, TY24441,  
**JLG** 7026921, **NAPA** 18455, **WILSON** 91-  
29-5433, 91-29-5457

**JOHN DEERE** Engine Models 4045D, 4039DFM,  
4039DFM, 4045DFM50, 4045TFM, and 4045TFM

### MINNPAR



**57-1660**

12-VOLT, 15-TOOTH, 1.4 kW, CW,  
OSGR

**CASE** VV12913677011, **HITACHI** S114-  
257, S114-257G, S114-483, S114-483A,  
**KOMATSU** YM171008-77010, **NAPA** 18205,  
**WAI** 18205N-ND, 2-1916-HI, **TAKEUCHI**  
T17100877010, **WAI** 18205N-ND, 2-1916-  
HI, **WILSON** 71-25-18205, 91-25-1102,  
**YANMAR** 129136-77011, S114-257, 171008-  
77010

**YANMAR** 4 Cylinder Diesel Engine Models 4T95, 3T84C,  
4TNE84, 4JH3-TE-YEU, 4JH3-TE, 4JH3ZA, 4JH3-THE, 4JH3-  
TCE, 4JH3, 4JH3-CE, 4JH2-UTE, 4JH2L-HTNE

### MINNPAR



**57-1672**

12-VOLT, 10-TOOTH, 0.8 kW,  
CCW, PMDD

**MINNPAR** 25-098-20, **KUBOTA** E7194-  
63010, E7194-63012, E7185-30330,  
**MINNPAR** 57-1672, 25-098-20, **KUBOTA**  
E7194-63010, E7194-63012, E7185-30330,  
**JOHN DEERE** AM132702, MIA11473,  
AM107322, AM131296, **WILSON** 91-01-  
4547, 71-01-6744, **WAI** 2-2022-DR, **DELCO**  
10455513, 10455516, 8000335, 8000870

**KOHLER** Engine Models 20 to 27 HP

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## Part Number

## Replaces

## Used On

### MINNPAR



**57-1711**

12-VOLT, 9-TOOTH, 1.1 kW, CW,  
PLGR

**DENSO** 228000-7470, 228000-7471,  
9722809-747, 428000-0600, **JOHN**  
**DEERE** AM809215, AM879204, M809215,  
Y25238, AM880978, **YANMAR** 119626-  
77010, 119626-77011, **WILSON** 91-29-5524

**YANMAR** Engine Models 3T72, 3T75, 3TN75, 3TNA72,  
3TNA75

### MINNPAR



**57-2370**

12-VOLT, 15-TOOTH, 0.7 kW,  
CCW, PMDD

**BRIGGS & STRATTON** 691564, 693469,  
808106, 844717, **CLUB CAR** 103553901, GEN-  
ERAC 0C2881, 72881, C2881, C2881-A, **JOHN**  
**DEERE** M143512, **NAPA** RN5776, REMY-  
(DELCO) RS41081, **TUCKER ROCKY** 495781,  
49-5781, **WAI** 2-2407, **WILSON** 91-35-1028

**BRIGGS & STRATTON** 16-21 HP OHV V-TWIN Gas Motors

### MINNPAR



**57-2390**

12-VOLT, 10-TOOTH, CW, 1.5 kW,  
PMGR

**MINNPAR** 57-2445, 150-324, **WILSON**  
91-02-5864, Ford SA-854, SA-797, **FORD**  
PMGR, F7PU-11000-DA, F2HZ-11002-A,  
F2HT-AA, F2HT-11000-AA, F2HT-11000-11,  
**WAI** 2-1953-FD-1, 2-1953-FD, 2-1568-FD

**FORD** 7.0L (429) V8 Gas Engines

### MINNPAR



**57-2402**

12-VOLT, 11-TOOTH, 1.4 kW, CW,  
PMGR

**MINNPAR** 111040, **MERCURY MARINE**  
50-863007A1, 50-807904A1, 50-806964A3,  
**JLG** 70005567, 70001149, 7027969,  
**HYSTER** 33001228, **DELCO** 10465042,  
323-436, 9000762, 9000768, 9000789,  
9000819, 9000821, 9000840, 9000885,  
9000886, **WILSON** 91-01-4556, 91-01-  
4481, 91-01-4388, 91-01-4386, 91-01-4320,  
71-01-6409, **WAI** 2-2323-DR-2, 2-2323-DR,  
2-1789-DR, 2-1758-DR, 2-1691-DR-2, 2-1691-  
DR, 2-1476-DR, **MAHLE-LETRIKA** (ISKRA)  
IS9314, IS 9314, IS9313, IS 9313

**GM (GENERAL MOTORS)** 4.3L - 262ci - 6cyl, 5.0L - 305ci  
- 8cyl, 5.7L - 350ci - 8cyl, 7.4L - 454ci - 8cyl, 8.9L - 540ci  
- 8cyl Engine

### MINNPAR






**57-2519**

12-VOLT, 11-TOOTH, 1.4 kW, CW,  
PMGR

**MINNPAR** 3660566, **DELCO** 8000282,  
9000884, **WILSON** 91-01-4515, 71-01-  
6792, **WAI** 2-1999-DR, 2-1999-DR-2

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Part Number	Replaces	Used On
<b>MINNPAR</b>		
 <b>57-2538</b> 12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR	<b>CONDOR</b> 36252-012, 81868-102, <b>DELCO</b> 10465341, 323-511, <b>FORD</b> F17U-11000-AB, F1TZ-11002-A, F87U-11000-A1A, F87U-11000-A1B, F87U11000-A1A, F87Z-11002-AA, <b>GENIE</b> 29616, 29616GT, <b>GROVE</b> 87U11000A1B, F87U11000A1B, <b>JLG</b> 7012679, 7019986, <b>MAZDA</b> ZZM0-18-400, ZZP1-18-400, <b>MINNPAR</b> 57-2432, <b>MOTORCRAFT</b> SA-785, SA-857, <b>NAPA</b> 244-9251-R, 244-9251, 44-9251, 4N-9251, 4N9251, <b>WAI</b> 50-222, 2-1914-FD, 2-1894-FD, 2-1894-FD-1, <b>WILSON</b> 91-02-5863, 91-02-5863N	<b>FORD</b> LSG/LRG423 Engines
<b>MINNPAR</b>		
 <b>57-2575</b> 12-VOLT, 11-TOOTH, 1.5kW, CW, PMGR	<b>FORD</b> 1L5T-11000-AA, 1L5Z-11002-AA, 6L5T-11000-AA, 6L5Z-11002-AA, <b>GENIE</b> 119137, 119137GT, <b>NAPA</b> 244-9298, 44-9298, 4N-9298, <b>WAI</b> 2-2218-FD, <b>WILSON</b> 91-02-5907, 91-02-5907N	<b>FORD</b> 2.3L Engines
<b>MINNPAR</b>		
 <b>57-2667</b> 12-VOLT, 9-TOOTH, 0.6 kW, CCW, DENSO	<b>CLUB CAR</b> 103345501, <b>DENSO</b> 228000-9260, 228000-9261, 428000-5060, <b>JOHN DEERE</b> AM133646, M1A11409, SE501879, <b>KAWASAKI</b> 21163-7004, 21163-7015, <b>KUBOTA</b> EG371-63010, EG371-63011, <b>TUCKER ROCKY</b> 49-5800, <b>WILSON</b> 71-29-18549	<b>KAWASAKI</b> 15.5HP, 21HP, 23HP, 25HP Small Engines

## Part Number

## Replaces

## Used On

### MINNPAR



**57-2678**

12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR

**MINNPAR** 57-3201, 57-3224, SND0406, **DENSO** 228000-4752, 9722809-457, 9722809-459, 9722809-475, 228000-4750, 228000-4593, 228000-4592, 228000-4591, 228000-4590, 228000-4572, 228000-4571, 228000-4570, 028000-9032, 028000-9031, 028000-9030, **KUBOTA** 17490-63014, 17123-63016, 17123-63013, 16652-63013, 15425-63016, 15425-63014, 15425-63013, 15425-63012, 15425-63011, 15425-63010, **CASE** 126895A1, **WILSON** 91-29-5323, 91-29-5183, **WAI** 2-2209-ND, Gehl 127592

**KUBOTA** Engine Models V2403MT, V2203, V2203E

### MINNPAR



**57-2688**

12-VOLT, 9-TOOTH, BOBCAT 3400 SERIES ATV

**BOBCAT** 7018855, **POLARIS** 3084981, 3090188, **TUCKER ROCKY** 495713, 49-5713, **WILSON** 91-26-2059, **WILSON** Small Engine 71-26-18645, **NAPA** Small Motor RN18645

**BOBCAT** 3400 Series UTV'S and **POLARIS** UTV and ATV Model years 1998-2013

### MINNPAR



**57-2808**

12-VOLT, 9-TOOTH, 1.2 kW, CW, OSGR

**BOBCAT** 3390105, 6680542, 6681742, 6962169, **CASE** 1959380C, **DENSO** 228000-0981, 228000-1531, **GENIE** 866101, 866101GT, **KUBOTA** 37560-63012, 37560-63012, **SKYJACK** 115457, 137137, 147125, **VERMEER** 296-271-101, 296271-101, 296271101, **WACKER** 0169167, 5000169167.

**KUBOTA** Engine Models D1005, V1505-B, V1305B, D1105T, D905B

### MINNPAR



**57-2823**

12-VOLT, 14-TOOTH, 0.5 kW, CCW, PMOSGR

**HONDA** 31210-ZB8-0130, 31210-ZE3-013, 31210-ZE3-023, DB5B6, DB5B8, 31210ZB8-0130, 31210ZE3-0130, 31210-ZE3-013RM. **WILSON** 91-29-5396, 91-29-5396N, 71-29-18513. **DENSO** 128000-2750, 128000-3400, 9712809-275. **DELCO** RS41286. **LUCAS** LRS01353. **WAI** 18513N, 2-2688-ND.

**HONDA** GX340 (11HP), GX390 (13 HP) and GX390K1 (13 HP).

Part Number	Replaces	Used On
<b>MINNPAR</b>		
 <b>57-3225</b> 12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR	<b>DENSO</b> 9722809-540, 228000-5400, 228000-7090, 228000-7091, 228000-7480, <b>GENIE</b> 139191, 139191GT, <b>KUBOTA</b> 16225-63010, 16225-63012, 19007-63011, 19837-63010, 19837-63011, 19837-63013, 1G023-63010, 1G023-63011, 6A320-59210, 6A320-59212, K3511-81410, K3511-81411, <b>MINNPAR</b> 57-1530, 57-2735, 57-3722, <b>SKYJACK</b> 115309, 216536, 136100, <b>WILSON</b> 91-29-5563, 91-29-5662	<b>KUBOTA</b> Engine Models D722, D782, and WG-972
<b>MINNPAR</b>		
 <b>57-3247</b> 12-VOLT, 10-TOOTH, 2.5 kW, OSGR	<b>MINNPAR</b> SND0366, <b>JOHN DEERE</b> RE59588, SE501401, TY24436, RE50165, RE540301, RE54091, <b>DENSO</b> 228080-0844, 228000-0844, 228000-0843, 228000-0842, 228000-0841, 228000-0840, <b>WILSON</b> 91-29-5322, <b>GENIE</b> 115336GT, 115336GN, 115336, Ingersoll Rand 13502844.	<b>JOHN DEERE</b> Engine Models 4039 and 4045
<b>MINNPAR</b>		
 <b>57-3276</b> 12-VOLT, 10-TOOTH, 2.0 kW, CW, OSGR	<b>BOBCAT</b> 6670727, 7253205, 6681858. <b>DENSO</b> 228000-6920, 228000-6921, AS228000-6921, 428000-2070, 9742809-207. <b>WAI</b> 18447N and <b>WILSON</b> 91-29-5470N, 91-29-5470.	<b>KUBOTA</b> Engine Models D1703B, D1703E2B, V2203E-B, V2403, V2003TEB, D1105E2B, D1803MD1, V2403M-D1, V2403M and V1505.
<b>MINNPAR</b>		
 <b>57-3562</b> 12-VOLT, 9-TOOTH, 3.0 kW, CW, PLGR		<b>DEUTZ</b> Engine Models 3-172, 3-187, 4-230, 4-249, 6-374, F3L912, F3L913 F3L914, F4L912, F4L913, F4L914, F5L912, F5L914, F6L912, F6L913, F6L914, BF6L913/C, BF4M2012/C, TCD2012 L04, TCD2012 L06, BF4M1011/F, BF4M1012E/EC, BF4M1013E/EC, BF6M1013 FC, BF5M1011, BF3L914, BF6M1012/E, BF6M2012C, BF4L913/T

## Part Number

## Replaces

## Used On

### MINNPAR



**57-4183**

12-VOLT, 10-TOOTH, 3.0 kW,  
CW, PLGR

**MINNPAR** 57-4215, 410-41001, **GENIE** 226627GT, 226627, **WILSON** 91-19-2512, 91-23-6542, **WAI** 2-2809-MM, **PERKINS** 2873K404, 2873K621, 2873K632, **MAHLE-LETRIKA** (ISKRA) IS1071, IS 1071, IS1195, IS 1195, MS111, MS 111, MS289, MS 289, Marelli 63280040, MSN8040

**PERKINS** Engine Models 1004C-44TA G2, 1104C-44T G3, 1104C-44T AG1, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44T, 1006-60T.

### MINNPAR



**57-4295**

12-VOLT, 10-TOOTH, 2.6 kW,  
CW, PLGR

**BOSCH** 0001109331, 6004AA3014, F000AL0115, SR5010X, 0-001-109-331, **JOHN DEERE** RE531243, SE801844, RE540303, **MAHLE-LETRIKA** MS 221, IS1154, **WAI** 2-3005-BO

**JOHN DEERE** Engine Models 4024HF285, 4024HF295, 4024HF297, 4024TF220, 4024TF270, 4024TF280, 4024TF281, 4024TLV01, 4024TLV02, 4024TLV06, 4024TLV07, 4024TLV08, 4024TLV10, 4024TT001, 5030HF220, 5030HF270, 5030HF285, 5030HF286, 5030HF014, 5030TF220, and 5030TF270

### MINNPAR



**57-4296**

12-VOLT, 9-TOOTH, 2.0 kW, CW,  
PMGR

**BOSCH** 0-001-109-035, **MINNPAR** SDR0436, **JCB** 714/35600, 714-35600R, 714/40014, 714/40482, **PERKINS** U85086770, U85086771, U85086800, U85056790, U5MK8260, P30DC03A, 185086600, **CATERPILLER** (CAT) 333-5930, 3335930, 163-3361, 1633361, **GENIE** 228457GT, 228457, GN228547, 72335GT, 72335, 77479GT, 77479, **WILSON** 91-23-6544, 91-15-7143, 71-15-18949, **DELCO** 8000531, 8000532, 8000417, 8000277, **MAHLE-LETRIKA** (ISKRA) IS1101, IS 1101, MS86, MS 86, 11.131.267, AZE2155, **WAI** 2-2553-BO, Yale 19960489, 19960488, 50027532

**PERKINS** Engines 103-13 3 CYL-21 KW, 103-15 3 CYL-23.5KW, 104-19 4 CYL 32KW, 104-22 4 CYL-37KW, 403C-07 3R-13.4KW, 403C-10 3R-13.6KW, 403C-10 3R-16.6KW, 403C-11 3R-19.5KW, 403C-11G, 403C-15 3R-25.1KW, 403C-15G, 404C-20 4R-38KW, 404C-22G 4R-38KW, 404C-22T 4R-44.7KW, 403D-11, 403D-11G, 403D-15, 404D-22, 403G-15G, 404D-22G, 403D-II-TIER 3, 404-22D TIER 3, 404DT-22. **CATERPILLAR** (CAT) Engine Models C2.2, 3024C, C1.5, 3013, 3013C, 3024, 3024C, 3014

## Part Number

## Replaces

## Used On

### MINNPAR



**57-4299**

12-VOLT, 9-TOOTH, 2.3 kW, CW,  
PLGR

**ATLAS COPCO** 2913146100, 2913179000,  
**BOBCAT** 6688189, **BOMAG** 18951,  
0514657R, 05718090, **BOSCH**  
0001223016, 0-001-223-016, 0001223021,  
0-001-223-021, **DEUTZ** 01181751, 01182124,  
01182382, 01182384, 01183404, 01183599,  
04300006, 04300007, **GEHL** 138859, **GE-**  
**NIE** 1223016GT, 70376GT, 139709GT, **JCB**  
714/40369, **JLG** 7020479EX, 7020479,  
**MAHLE-LETRIKA** IS 1073, IS 1454, MS  
27, MS 28, IS 1217, **MINNPAR** 57-5513,  
**WILSON** 91-15-7159

**DEUTZ** 1011 and 2011 Engines

### MINNPAR



**57-4423**

12-VOLT, 11-TOOTH, 4.2 kW,  
PLGR

**JCB** 320/09022, 320/09023, 320/09026,  
320/09032, 320/09035, 320/09144,  
320/09346, 320/09409, 320/09452,  
320/09454, **MAHLE-LETRIKA**(ISKRA) IS  
1105, MS 84

**JCB** Engine Models **JCB444**, **DIESELMAX** Models NA, TC,  
TCA, **ECOMAX** Models TCAE.

### MINNPAR



**57-4795**

12-VOLT, 11-TOOTH, 1.4 kW, CW,  
PMGR

**MINNPAR** 111-18365, **BOSCH** 0-001-  
314-001, 0-001-115-035, 0-001-110-042,  
0-001-109-009, 0-001-108-210, SR5055X,  
**BOBCAT** 7258859, **WAI** 2-3163-B0,  
**WILSON** 91-15-7077, 91-15-7076, **CASE**  
A1016373

**BOBCAT** Skid Steer Loader Models 643, 743, 751F, 751G,  
763, 773, 823, Trencher Model T190

### MINNPAR



**57-4805**

12-VOLT, 9-TOOTH, 2.2 kW, CW,  
PMGR

**BOSCH** 0001109330, 0-001-109-330,  
**JOHN DEERE** RE40303, RE501844,  
RE508922, RM10034, RE540304

**JOHN DEERE** Engine Models 4024TT003, 4024HF297,  
4024TT012, 5030HF286, 5030TT003, 4024TT001,  
4024TT002, 4024HT011, 4024HT015, 5030HF286,  
5030HT014, 5030HT011, 5030HT012, 4024TLV04,  
4024TLV05, and 4024TLV09



## Part Number

## Replaces

## Used On

### MINNPAR



**57-4837**

12-VOLT, 9-TOOTH, 2.0 kW, CW,  
PMGR

**MINNPAR** 57-4837, 57-5472, AZE2606,  
Hatz Engine 50496201, 50495901,  
504959000733, 50495900, 50353510,  
50353420, 000050495901, **BOMAG**  
05726092, 05728551, 5726001,  
05726003R, 05726003, 05726001,  
05710924, **MAHLE-LETRIKA** IS1150, IS  
1150, MS 432, MS432, 11.130.923, **WILSON**  
91-23-6526, 91-15-7144

**HATZ** Engine Models 1D42/1D42C/1D42S, 1D50,  
1D81/1D81C, 1D81Z, 1D90 V/W, 1D90/1D90Z, 1D90V.

### MINNPAR



**57-4838**

12-VOLT, 9-TOOTH, 2.2 kW, CW,  
OSGR

**CUMMINS** 4982589, **DENSO** 228000-  
9010, 428000-2650, 428080-2650,  
**DOOSAN** K1022428, **GROVE** 9-414-  
101545, 9414101545, **JLG** 70021850EX,  
70021850, **KOMATSU** 600-863-1310, 600-  
863-1410, **MINNPAR** 57-4862, **SKYTRAK**  
70021850EX, 70021850, **WAI** 18981N,  
**WILSON** 91-29-5564, 91-29-5603

**CUMMINS** B3.3L, B303T & QSB 4.5T Engines from 2003  
on

### MINNPAR



**57-4905**

12-VOLT, 10-TOOTH, 2.7 kW,  
CW, OSGR

**MINNPAR** 190-6225, **JLG** 70020352,  
**LULL** 70020352, **SKYTRAK** 8035278,  
**CUMMINS** 3971615, 3971613, 397161500,  
**DENSO** 428000-2920, **WILSON** 91-29-  
5683

**CUMMINS** Engine Models QSB 4.5 and 6.7 Tier III

### MINNPAR



**57-4935**

12-VOLT, 14-TOOTH, 1.7 kW,  
CW, PMGR

**CASE** VA30L6610500, **CATERPILLAR**  
(**CAT**) 272-0457, **MITSUBISHI** 30L66-  
10500, 30L66-10600, M1T68381, **WILSON**  
91-27-3332

**MITSUBISHI** Engine Models L3E-W262KL, L3E-W231KBS,  
and L3E 15.2HP Diesel

## Part Number

## Replaces

## Used On

### MINNPAR



#### 57-5165

12-VOLT, 10-TOOTH, 3.0 kW,  
PLGR

**DENSO** 428000-1290, **MAHLE-LETRIKA** MS399, IS1201, IS 1201, **MINNPAR** 57-5248, 57-4761, 57-3727, **JCB** 714/40536, 71440231, 714/40531, 714/40231, 714/40159R, 714/40159, **JLG** 7029782, 7029782EX, Hanomag/Massey 29194800, 291 948 00, 26194600, 261 946 00, **BOBCAT** 7169477, **PERKINS** 3873K627, 3586849, 2873K634, 2873K626, 2873K625, 2873K624, 2873K605, 2873K604, 2873K405, Caterpillar 225-3149.

**PERKINS** Engine Models 1104D-44TA, 1104D-E44TA, 1104A-44, 1104D-44T, 1103D-33, 1103D-33TA, 854E-34TA, 1103C33T, 854E-E34TA, 3-165 64.4HP. **CATERPILLAR** (CAT) Engine Models 3054C.

### MINNPAR



#### 57-5170

12-VOLT, 9-TOOTH, 2.3 kW, CW,  
PLGR

**ATLAS COPCO** 2913146100, 2913179000, **BOBCAT** 6688189, **BOMAG** 18951, 0514657R, 05718090, **BOSCH** 0001223016, 0-001-223-016, 0001223021, 0-001-223-021, **DEUTZ** 01181751, 01182124, 01182382, 01182384, 01183404, 01183599, 04300006, 04300007, **GEHL** 138859, **GENIE** 1223016GT, 70376GT, 139709GT, **JCB** 714/40369, **JLG** 7020479EX, 7020479, **MAHLE-LETRIKA** IS 1073, IS 1454, MS 27, MS 28, IS 1217, **MINNPAR** 57-5513, **WILSON** 91-15-7159

**DEUTZ** Engine Models BF4L2011, D2011 L2i, BM2011F, BF4M2011, F3M, D2011 L02, D2011 L03i, L2011 L03, F2M2011, F3M2011F, BF3M2011F, F3M2011, F3L2011, F3L1011, F3L1011F, TD2011 L04w, BF2011, TD2011 L04i, BF3L2011, BF3M2011, BF4M2100, BF4L1011, BF4L1011FT, F2L2011, F4L2011, F4M2011, TCD2011 L4, F4M.

### MINNPAR



#### 57-5259

12-VOLT, 10-TOOTH, 2.7 kW,  
CW, OSGR

**CASE** 86992395, 86992395R, **DENSO** 428000-1690, 428000-1691, **WAI** 19614N, **WILSON** 91-29-5068

**CASE** Engine Models **CASE** 445TA/E3, FPT 445TA/E3 110HP, FPT 445TA/M3 95HP, FPT 445TA/E3 97HP, FPT 445T/MMG 85HP, 4.5L 4cyl 80HP Diesel, 4.5L 4cyl 89HP Diesel, 4.5L 4cyl 90HP Diesel, 4.5L 4cyl 99HP Diesel, 6.7L 6cyl 99HP Diesel, and 445T/M3

### MINNPAR



#### 57-5328

12-VOLT, 10-TOOTH, 3.0 kW,  
PLGR

**MINNPAR** SB00275, **CASE** 87337538, 84208903, 5801577138, 5801577137, 50436476, 504357109, 504357110, 504036476, 504031929, 47137538, 47137534, 47132888, 2859528R, 2859528, 2859527, 2856064, 2852178, 285217, **MAHLE-LETRIKA** (ISKRA) IS1109, IS 1109, MS168, MS 168, MS677, MS 677

**NEF** Tier 3, Tier 4 and **IVECO** Engines.

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## Part Number

## Replaces

## Used On

### MINNPAR



**57-5450**

12-VOLT, 11-TOOTH, 1.2 kW, CW,  
PMGR

**MINNPAR** 57-2510, 014815, **CASE**  
VV12924277010, 72280431, **KOMATSU**  
129698-77010, 129242-77010, 121370-  
77010, **WILSON** 91-25-1134, 91-25-1123, 71-  
25-18210, **HITACHI** S114-883, S114-817A,  
S114-817, S114-815A, S114-815, Doosan  
5864002200, **WAI** 2-2009-HI, Napa  
RN18210, Unipoint STR-3309

**ISUZU** Engine Models 3CA1, 3CB1, 3CD1, 3CE1.

### MINNPAR



**57-5509**

12-VOLT, 9-TOOTH, 3.0 kW, CW

**MINNPAR** 103-462, **KUBOTA** 1K012-  
63013, 1K012-63012, 1K012-63011,  
1K012-63010, K1G777-63010, K1G777-  
63011, K1G777-63012, K1G77763010,  
K1G77763011, K1G77763012, K1K012-  
63012, K1K01263012, **MITSUBISHI**  
M8T50473, M8T50471, M008T50471,  
M8T50670, M8T50671, M8T50672

**KUBOTA** Engine Models V3307-TE, V6108-CR-TIER4,  
V6108EC3QB, V61CTIE4BQ, V6108EB3QB, V3800DI-T.

### MINNPAR



**57-5536**

12-VOLT, 9-TOOTH, 2.3 kW, CW,  
PMGR

**BOSCH** 0-001-109-369, 0-001-109-460,  
**SKYJACK** 127187

**DEUTZ** 2011L04i Engines

### MINNPAR



**57-5537**

12-VOLT, 10-TOOTH, CCW, DD

**MINNPAR** SND0728, **DENSO** 428000-  
6410, **WILSON** 71-29-19250

**HONDA** Small Engine Models GX630, GX630H, GX630R,  
GH630RH, GX660, GX660R, GX660RH, GX690, GX690H,  
GX690R, GX690RH

### MINNPAR






**57-5539**

12-VOLT, 11-TOOTH, 2.7 kW, CW,  
PLGR

**CUMMINS** 5256155, **DENSO** 428000-  
6800, **JLG/SKYTRAK** 70024277







**CUMMINS** 3.3 L Engines

Part Number	Replaces	Used On
<b>MINNPAR</b>		
 <b>57-5544</b> 12-VOLT, 11-TOOTH, CW, PMGR	<b>FORD</b> 3S4T-11002-AB, 4S4Z-11002-AA, 5S4T-11002-A, 6S4Z-11002-AA, <b>GENIE</b> 215293GT, 1258103GT, 1264894GT, MAZDA L3H5-18-400, ZZC1-18-400, <b>MINNPAR</b> 57-5521, <b>MOTORCRAFT</b> SA-923, SA-926, SA-934, SA-963, <b>NAPA</b> 44-9302, 244-9302, REMY( <b>DELCO</b> ) 28730, <b>WAI</b> 2-2400-FD, <b>WILSON</b> 91-02-5910	<b>FORD</b> MSG-425 Engine
<b>MINNPAR</b>		
 <b>57-5561</b> 12-VOLT, 10-TOOTH, 4.0 kW, CW, PLGR	<b>GENIE</b> 236247, 236247GT, <b>DEUTZ</b> 412-5029, 04125029, 4125029	<b>DEUTZ</b> TCD 3.6 L4 4 Cylinder Tier 4B III, 67-120HP Engines
<b>MINNPAR</b>		
 <b>57-5569</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, PMGR	<b>BOBCAT</b> 7018593, <b>HITACHI</b> S114-940, <b>POLARIS</b> 3070309, and <b>YANMAR</b> 119125-77010	<b>BOBCAT</b> 3400, 3400XL, 3450, 3600, and 3650 UTV all Model years. <b>POLARIS</b> Brutus and Ranger 900 DIESEL UTV 2011-2014 Model years
<b>MINNPAR</b>		
 <b>57-5622</b> 12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR	<b>DENSO</b> 228000-5911, <b>KUBOTA</b> 67980-31152, <b>SKYJACK</b> 159216	<b>KUBOTA</b> D722 & D782 Dual Fuel Engines.
<b>MITSUBISHI</b>		
 <b>M1T60381</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, PMGR	M1T60081	<b>NISSAN</b> A15, H20, H25, Z24 Engines

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Part Number	Replaces	Used On
<b>MITSUBISHI</b>		
 <b>M1T68381</b> 12-VOLT, 14-TOOTH, 1.7 kW, CW, PMGR	30L66-10500, 30L66-10600	<b>MITSUBISHI</b> Engine Models L3E-W262KL, L3E-W231KBS, and L3E 15.2HP Diesel
<b>MITSUBISHI</b>		
 <b>M3T49982</b> 12-VOLT, 9-TOOTH, 0.8 kW, CW, DD	M003T33481, 02T30481, M2T42381, M2T42382, M3T33481, M3T49981	<b>KUBOTA</b> Engine Models WG750, D600B, D640B, WG600B, Z430-K1, WG750-G, Z400, Z430, D601
<b>MITSUBISHI</b>		
 <b>M8T50473</b> 12-VOLT, 9-TOOTH, 3.0 kW, CW	M8T50471, M008T50471, M8T50670, M8T50671, M8T50672	<b>KUBOTA</b> Engine models V3307-TE, V6108-CR-TIER4, V6108EC3QB, V61CTIE4BQ, V6108EB3QB, V3800DI-T.
<b>MOTORCRAFT</b>		
 <b>SA-857</b> 12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR	SA-785	<b>FORD</b> LSG/LRG423 Engines
<b>MOTORCRAFT</b>		
 <b>SA-963</b> 12-VOLT, 11-TOOTH, CW, PMGR	SA-923, SA-926, SA-934	<b>FORD</b> MSG-425 Engine
<b>MOTOROLA</b>		
 <b>MS1-401A</b> 24-VOLT, 11-TOOTH, CW, DD		<b>CUMMINS</b> Engine Models <b>NTA855C</b> , VT-555, L Series <b>14L</b> , L Series 10.0L, V Series 9.1L, V903 NTC350.

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	Part Number	Replaces	Used On
<b>NAPA</b>			
	<b>16791N</b> 12-VOLT, 9-TOOTH, 0.8 kW, CW, DD	16791, RN18162	<b>KUBOTA</b> Engine Models WG750, D600B, D640B, WG600B, Z430-K1, WG750-G, Z400, Z430, D601
<b>NAPA</b>			
	<b>17437N</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, PMGR	17437	<b>NISSAN</b> A15, H20, H25, Z24 Engines
<b>NAPA</b>			
	<b>18051</b> 12-VOLT, 15-TOOTH, 2.3 kW, CW, OSGR	<b>GEHL</b> 188586, 425-36290, <b>JOHN DEERE</b> AT318141, AM878189, <b>KOMATSU</b> YM129400-77011, YM129400-77010, MUS-TANG 425-34685, <b>WILSON</b> 91-25-1072, <b>WAI</b> 18051N, 2-2728-HI, 2-2728-HI-2.	<b>YANMAR</b> 3TNV88C, 3TNV88F, 4TN78, 4TN82, 4TNV86CT and 4TNV86CHT Engines.
<b>NAPA</b>			
	<b>18205</b> 12-VOLT, 15-TOOTH, 1.4 kW, CW, OSGR		<b>YANMAR</b> 4 Cylinder Diesel Engine Models 4T95, 3T84C, 4TNE84, 4JH3-TE-YEU, 4JH3-TE, 4JH3ZA, 4JH3-THE, 4JH3-TCE, 4JH3, 4JH3-CE, 4JH2-UTE, 4JH2L-HTNE
<b>NAPA</b>			
	<b>18455</b> 12-VOLT, 11-TOOTH, 4.8 kW, OSGR		<b>JOHN DEERE</b> Engine Models 4045D, 4039DFM, 4039DFM, 4045DFM50, 4045TFM, and 4045TFM
<b>NAPA</b>			
	<b>46-5032</b> 12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR	76126	<b>CUMMINS</b> B Series 3.9L and 5.9L 94-ON <b>CUMMINS</b> 4-239, 4.236M 3860CC, QSB 6.7 TIER I and II, 6-359, 6BT 5.9L 6 CYL 359 ci, 6BTA5.9-M 6 CYL 359 ci, 4BT3.9L

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	Part Number	Replaces	Used On
<b>NAPA</b> 	<b>4N-9298</b>	244-9298, 44-9298	<b>FORD</b> 2.3L Engines
	12-VOLT, 11-TOOTH, 1.5kW, CW, PMGR		
<b>NAPA</b> 	<b>4N9251</b>	244-9251-R, 244-9251, 44-9251, 44-9285, 4N-9251	<b>FORD</b> LSG/LRG423 Engines
	12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR		
<b>NAPA</b> 	<b>717390N</b>	44-0233, 16990, 16990N, 717390	<b>CUMMINS</b> Engine Models 4-390, 4T-390, 390, 5.9L ISB, B SERIES 3.9L, B SERIES 5.9L, QSB 6.7 Tier I, and QSB 6.7 Tier II
	12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR		
<b>NAPA</b> 	<b>RN5776</b>		<b>BRIGGS &amp; STRATTON</b> 16-21 HP OHV V-TWIN Gas Motors
	12-VOLT, 15-TOOTH, 0.7 kW, CCW, PMDD		
<b>NAPA</b> 	<b>RPS 18512</b>	<b>DENSO</b> 228000-2210, 228000-2211, 228000-2212, <b>JOHN DEERE</b> MIA12278, MIA11059 MIA10971, <b>KAWASAKI</b> 21163-2133, 21163-2114, 21163-2118, <b>WAI</b> 2-2035-ND, <b>WILSON</b> 91-29-5378.	<b>KAWASAKI</b> 23HP, 617cc Engines.
	12-VOLT, 9-TOOTH, 0.7 kW, CCW, DD		
<b>NEW HOLLAND</b> 	<b>4780974</b>	1990463	<b>ALLIS CHALMERS</b> 945, <b>FIAT ALLIS</b> 260B, 261B Wheel Loaders
	24-VOLT, 11-TOOTH, 9.0 kW, CW, DD		

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Part Number	Replaces	Used On
<b>NEW HOLLAND</b>		
 <b>VV12913677011</b> 12-VOLT, 15-TOOTH, 1.4 kW, CW, OSGR		<b>NEW HOLLAND</b> Compact Excavator Models E50, E50B, E50BSR, E50SR, E55BX, and EH50B
<b>NISSAN</b>		
 <b>23300-W9810</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, PMGR	23300-K9160	<b>NISSAN</b> A15, H20, H25, Z24 Engines
<b>PERKINS</b>		
 <b>2873K404</b> 12-VOLT, 10-TOOTH, 3.0 kW, CW, PLGR	2873K621, 2873K632	<b>PERKINS</b> Engine Models 1004C-44TA G2, 1104C-44T G3, 1104C-44T AG1, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44T, 1006-60T
<b>PERKINS</b>		
 <b>3873K627</b> 12-VOLT, 10-TOOTH, 3.0 kW, PLGR	3586849, 2873K634, 2873K626, 2873K625, 2873K624, 2873K605, 2873K604, 2873K405	<b>PERKINS</b> Engine Models 1104D-44TA, 1104D-E44TA, 1104A-44, 1104D-44T, 1103D-33, 1103D-33TA, 854E-34TA, 1103C33T, 854E-E34TA, 3-165 64.4HP.
<b>PERKINS</b>		
 <b>U85086770</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR	U85086771, U85086800, U85056790, U5MK8260, P30DC03A, 185086600	<b>PERKINS</b> Engines 103-13 3 CYL-21 KW, 103-15 3 CYL-23.5KW, 104-19 4 CYL 32KW, 104-22 4 CYL-37KW, 403C-07 3R-13.4KW, 403C-10 3R-13.6KW, 403C-10 3R-16.6KW, 403C-11 3R-19.5KW, 403C-11G, 403C-15 3R-25.1KW, 403C-15G, 404C-20 4R-38KW, 404C-22G 4R-38KW, 404C-22T 4R-44.7KW, 403D-11, 403D-11G, 403D-15, 404D-22, 403G-15G, 404D-22G, 403D-II-TIER 3, 404-22D TIER 3, 404DT-22.

## Part Number

## Replaces

## Used On

### POLARIS



**3070309**

12-VOLT, 9-TOOTH, 1.2 kW, CW,  
PMGR

**POLARIS** Brutus and Ranger 900 DIESEL UTV 2011-2014  
Model years

### POLARIS



**3090188**

12-VOLT, 9-TOOTH, BOBCAT  
3400 SERIES ATV

3084981

**POLARIS** UTV and ATV Model years 1998-2013

### REMY (DELCO)



**28730**

12-VOLT, 11-TOOTH, CW, PMGR

**FORD** MSG-425 Engine

### REMY (DELCO)



**RS41081**

12-VOLT, 15-TOOTH, 0.7 kW,  
CCW, PMDD

**BRIGGS & STRATTON** 16-21 HP OHV V-TWIN Gas Motors

### SKYJACK



**115457**

12-VOLT, 9-TOOTH, 1.2 kW, CW,  
OSGR

137137, 147125

**SKYJACK** Rough Terrain Scissor Lift Models SJ600,  
SJ7027 RT, SJ7127 RT, SJ7135 RT, SJ800, SJ1000, SJ8243 RT,  
SJ8831 RT, SJ8841 RT, SJ8850 RT, SJ9241 RT, SJ9250 RT  
with **KUBOTA** Engines






### SKYJACK



**127187**

12-VOLT, 9-TOOTH, 2.3 kW, CW,  
PMGR

**SKYJACK** Telehandler Models SJ40T, SJ45T, SJ61T and  
SJ66T

	Part Number	Replaces	Used On
<b>SKYJACK</b>			
	<b>136100</b> 12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR	115309, 216536	<b>SKYJACK</b> Rough Terrain Scissor Lift Models SJ6832 RT, SJ8841 RT, and SJ9250 RT
<b>SKYJACK</b>			
	<b>159216</b> 12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR		<b>SKYJACK</b> Rough Terrain Scissor Lift Model 9250 RT
<b>SKYTRAK</b>			
	<b>70021850</b> 12-VOLT, 9-TOOTH, 2.2 kW, CW, OSGR	70021850EX	<b>SKYTRAK</b> Telehandler Models 6036, 6042, 8042, 10042 and 10054 with QSB 4.5T (SN 0160040220 and up) <b>CUMMINS</b> Engines
<b>SKYTRAK</b>			
	<b>70024277</b> 12-VOLT, 11-TOOTH, 2.7 kW, CW, PLGR		<b>SKYTRAK</b> Telehandler Models 6036, 6042, 8042, 10042, 10054 (If Equipped for ULS)
<b>SKYTRAK</b>			
	<b>8033340</b> 12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR	8270417, 8270420	<b>SKYTRAK</b> Telehandler Models 6036, 6042, 8042, 10042, 10054
<b>SKYTRAK</b>			
	<b>8035278</b> 12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR		<b>SKYTRAK</b> Telehandler Models 3606, 4266, 4270, 4290, 8042, 10042, 10054

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## Part Number

## Replaces

## Used On

### SKYTRAK



**8270428**

12-VOLT, 13-TOOTH, 2.5 kW,  
CW, OSGR

SKYTRAK Telehandler Models 6036, 10042, 10054, 8042,  
and 6042

### SNORKEL



**8110060**

12-VOLT, 9-TOOTH, 0.8 kW,  
CW, DD

SNORKEL machinery with **KUBOTA** Engine Models  
WG750, D600B, D640B, WG600B, Z430-K1, WG750-G,  
Z400, Z430, D601

### SUPERPAC



**203207**

12-VOLT, 10-TOOTH, 2.9 kW,  
CW, OSGR

SP203207

SUPERPAC Compaction Roller Models 6620 serial num-  
ber 101521 & up, 840 and 840P serial number 100275  
and 100306 & up, 8410 serial number 101552 & up

### SUPERPAC



**203425**

12-VOLT, 11-TOOTH, 2.2 kW, CW,  
PLGR

SP203425

SUPERPAC Vibratory Roller Models A421 & A471

### TAKEUCHI



**T17100877010**

12-VOLT, 15-TOOTH, 1.4 kW, CW,  
OSGR

TAKEUCHI machinery with **YANMAR** Engine Models  
4T95, 3T84C, 4TNE84, 4JH3-TE-YEU, 4JH3-TE, 4JH3ZA,  
4JH3-THE, 4JH3-TCE, 4JH3, 4JH3-CE, 4JH2-UTE, 4JH2L-  
HTNE




### TEREX









**69288**

12-VOLT, 13-TOOTH, 2.5 kW,  
CW, OSGR

TEREX machinery with **CUMMINS** Engine Models 4-390,  
4T-390, 390, 5.9L ISB, B SERIES 3.9L, B SERIES 5.9L, QSB  
6.7 Tier I, and QSB 6.7 Tier II

	Part Number	Replaces	Used On
<b>TOYOTA</b>			
	<b>28100-36E03</b> 12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR		TOYOTA machinery with <b>CUMMINS</b> Engine Models 4-390, 4T-390, 390, 5.9L ISB, B SERIES 3.9L, B SERIES 5.9L, QSB 6.7 Tier I, and QSB 6.7 Tier II
<b>TUCKER ROCKY</b>			
	<b>49-5781</b> 12-VOLT, 15-TOOTH, 0.7 kW, CCW, PMDD	495781	<b>BRIGGS &amp; STRATTON</b> 16-21 HP OHV V-TWIN Gas Motors
<b>VALEO</b>			
	<b>TM000A28901</b> 12-VOLT, 11-TOOTH, 2.7 kW, CW, PLGR		<b>KUBOTA</b> Engine Models V1505, V1903EB, V2203EB V2003/V2403, V2607, V2607DIT, V3300, V3300DI, V3307DIT, and V3800DI-T
<b>VOLVO-MICHIGAN</b>			
	<b>M0964485</b> 24-VOLT, 11-TOOTH, CW, DD	M0946052, E4087262, 964485, 946052, 4087262	<b>VOLVO - MICHIGAN</b> Wheel Loader Models 75C, 125C, 175B, 275B, Scraper 110 III, 110 III H, 210 I, 210 III, 210 III H, Wheeled Dozers Models 280, 280B With Detroit Diesels, <b>CUMMINS</b> NTA855C, <b>CUMMINS</b> VT-555.
<b>VOLVO-MICHIGAN</b>			
	<b>M3551918</b> 12-VOLT, 10-TOOTH, 2.8 kW, CW, DD	3551918	<b>VOLVO-MICHIGAN</b> machinery with <b>PERKINS</b> Engine Models 4-236, 4-248, 4-318, 6-354
<b>WACKER</b>			
	<b>5000169167</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, OSGR	0169167	<b>WACKER NEUSON</b> machinery with Onan 5.5 QCMD or <b>KUBOTA</b> Engines

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	Part Number	Replaces	Used On
<b>WAI</b> 	<b>18447N</b>		<b>KUBOTA</b> Engine Models D1703B,D1703E2B,V2203E-B,V2403,V2003TEB,D1105E2B,D1803MD1,V2403M-D1,V2403M and V1505.
	12-VOLT, 10-TOOTH, 2.0 kW, CW, OSGR		
<b>WAI</b> 	<b>18981N</b>		<b>CUMMINS</b> B3.3L, B303T & QSB 4.5T Engines from 2003 on
	12-VOLT, 9-TOOTH, 2.2 kW, CW, OSGR		
<b>WAI</b> 	<b>19614N</b>		<b>CASE</b> Engine Models 445TA/E3, FPT 445TA/E3 110HP, FPT 445TA/M3 95HP, FPT 445TA/E3 97HP, FPT 445T/MMG 85HP, 4.5L 4cyl 80HP Diesel, 4.5L 4cyl 89HP Diesel, 4.5L 4cyl 90HP Diesel, 4.5L 4cyl 99HP Diesel, 6.7L 6cyl 99HP Diesel, and 445T/M3
	12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR		
<b>WAI</b> 	<b>2-1444-MI</b>	17437N	<b>NISSAN</b> Engine Models A15, H20, H25, Z24
	12-VOLT, 9-TOOTH, 1.2 kW, CW, PMGR		
<b>WAI</b> 	<b>2-1445-MI</b>		<b>KUBOTA</b> Engine Models WG750, D600B, D640B, WG600B, Z430-K1, WG750-G, Z400, Z430, D601
	12-VOLT, 9-TOOTH, 0.8 kW, CW, DD		
<b>WAI</b> 	<b>2-1526-ND</b>		<b>CUMMINS</b> Engine Models 4-390, 4T-390, 390, 5.9L ISB, B SERIES 3.9L, B SERIES 5.9L, QSB 6.7 Tier I, and QSB 6.7 Tier II
	12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR		

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	Part Number	Replaces	Used On
<b>WAI</b> 	<b>2-1749-DR</b>	2-1631-DR	<b>CUMMINS</b> B Series 3.9L and 5.9L 94-ON <b>CUMMINS</b> 4-239, 4.236M 3860CC, QSB 6.7 TIER I and II, 6-359, 6BT 5.9L 6 CYL 359 ci, 6BTA5.9-M 6 CYL 359 ci, 4BT3.9L
	12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR		
<b>WAI</b> 	<b>2-1803-BO-2</b>	2-1750-ND, 50-8422	<b>JOHN DEERE</b> Engine Models 4039DFM 4 CYL, 239ci, 3.9L 2000-2007, 4045DFM50, 4045, 4.5L 2004-2007, 4045DFM70 4 CYL, 276ci, 4.5L 2004-2207, 4045TFM 4 CYL, 276ci, 4.5L, 4045TFM50 4 CYL, 276ci, 4.5L, 4045TFM75 4 CYL, 276 ci, and 4.5L 2004-2007
	12-VOLT, 11-TOOTH, 2.5 kW, CW, OSGR		
<b>WAI</b> 	<b>2-1894-FD-1</b>	50-222, 2-1914-FD, 2-1894-FD	<b>FORD</b> LSG/LRG423 Engines
	12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR		
<b>WAI</b> 	<b>2-1916-HI</b>	18205N-ND	<b>YANMAR</b> 4 Cylinder Diesel Engine Models 4T95, 3T84C, 4TNE84, 4JH3-TE-YEU, 4JH3-TE, 4JH3ZA, 4JH3-THE, 4JH3-TCE, 4JH3, 4JH3-CE, 4JH2-UTE, 4JH2L-HTNE
	12-VOLT, 15-TOOTH, 1.4 kW, CW, OSGR		
<b>WAI</b> 	<b>2-1946-BO</b>		<b>DEUTZ</b> Engine Models F4L2011, F4L1011, F3L2011, F3L1011, F3L1011F, BF4L1011FT, BF4L1011, F2L1011, and F4L1011F
	12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR		
<b>WAI</b> 	<b>2-1953-FD-1</b>	2-1953-FD, 2-1568-FD	<b>FORD</b> 7.0L (429) V8 Gas Engines
	12-VOLT, 10-TOOTH, CW, 1.5 kW, PMGR		

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Part Number	Replaces	Used On
<b>WAI</b>  <b>2-1999-DR</b> 12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR	2-1999-DR-2	<b>GM (GENERAL MOTORS)</b> 3.0L - 181ci - <b>4cyl</b> , 4.3L - 262ci - 6cyl, 5.0L - 305ci - 8cyl, 5.7L - 350ci - 8cyl, <b>6.2L - 377ci - 8cyl, 7.4L - 454ci - 8cyl, 8.1L - 496ci - 8cyl Engines</b>
<b>WAI</b>  <b>2-2009-HI</b> 12-VOLT, 11-TOOTH, 1.2 kW, CW, PMGR		<b>ISUZU</b> Engine Models 3CA1, 3CB1, 3CD1, 3CE1.
<b>WAI</b>  <b>2-2022-DR</b> 12-VOLT, 10-TOOTH, 0.8 kW, CCW, PMDD		<b>KOHLER</b> Engine Models 20 to 27 HP
<b>WAI</b>  <b>2-2107-ND</b> 12-VOLT, 9-TOOTH, 1.4kW, CW, OSGR	2-2107-ND	<b>KUBOTA</b> Engine Models D1301A, D1302, D1302DI, D1402, D1402BH, D1702, D1703-B, D1902, D1902BH, V1402, V1500A, V1702DIA, V1902B, V2203, V2203E, S2800B, F2803, F2803E.
<b>WAI</b>  <b>2-2209-ND</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR		<b>KUBOTA</b> Engine Models V2403MT, V2203, V2203E
<b>WAI</b>  <b>2-2218-FD</b> 12-VOLT, 11-TOOTH, 1.5kW, CW, PMGR		<b>FORD</b> 2.3L Engines

	Part Number	Replaces	Used On
<b>WAI</b> 	<b>2-2283-B0</b>		<b>FIAT-ALLIS</b> Crawler Loader Models FL-5, FL-5B. Motor Grader Model 65B. Wheel Loader Model FR70
	24-VOLT, 9-TOOTH, 4.0 kW, CW, DD		
<b>WAI</b> 	<b>2-2323-DR-2</b>	2-2323-DR, 2-1789-DR, 2-1758-DR, 2-1691-DR-2, 2-1691-DR, 2-1476-DR	<b>GM (GENERAL MOTORS)</b> 4.3L - 262ci - 6cyl, 5.0L - 305ci - 8cyl, 5.7L - 350ci - 8cyl, 7.4L - 454ci - 8cyl, 8.9L - 540ci - 8cyl Engine
	12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR		
<b>WAI</b> 	<b>2-2400-FD</b>		<b>FORD</b> MSG-425 Engines
	12-VOLT, 11-TOOTH, CW, PMGR		
<b>WAI</b> 	<b>2-2407</b>		<b>BRIGGS &amp; STRATTON</b> 16-21 HP OHV V-TWIN Gas Motors
	12-VOLT, 15-TOOTH, 0.7 kW, CCW, PMDD		
<b>WAI</b> 	<b>2-2553-B0</b>		<b>PERKINS</b> Engines 103-13 3 CYL-21 KW, 103-15 3 CYL-23.5KW, 104-19 4 CYL 32KW, 104-22 4 CYL-37KW, 403C-07 3R-13.4KW, 403C-10 3R-13.6KW, 403C-10 3R-16.6KW, 403C-11 3R-19.5KW, 403C-11G, 403C-15 3R-25.1KW, 403C-15G, 404C-20 4R-38KW, 404C-22G 4R-38KW, 404C-22T 4R-44.7KW, 403D-11, 403D-11G, 403D-15, 404D-22, 403G-15G, 404D-22G, 403D-II-TIER 3, 404-22D TIER 3, 404DT-22. <b>CATERPILLAR (CAT)</b> Engine Models C2.2, 3024C, C1.5, 3013, 3013C, 3024, 3024C, 3014
	12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR		







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	Part Number	Replaces	Used On
<b>WAI</b> 	<b>2-2658-ND</b>		<b>KUBOTA</b> Engine Models D1005, V1505-B, V1305B, D1105T, D905B.
	12-VOLT, 9-TOOTH, 1.2 kW, CW, OSGR		
<b>WAI</b> 	<b>2-2726-ND</b>	2-2726-ND-2	<b>JOHN DEERE</b> 4045 and 6068 engines
	12-VOLT, 11-TOOTH, 4.0 kW, OSGR		
<b>WAI</b> 	<b>2-2809-MM</b>		<b>PERKINS</b> Engine Models 1004C-44TA G2, 1104C-44T G3, 1104C-44T AG1, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44T, 1006-60T.
	12-VOLT, 10-TOOTH, 3.0 kW, CW, PLGR		
<b>WAI</b> 	<b>2-2973-ND</b>		<b>JOHN DEERE</b> Engine Models 4045D, 4039DFM, 4039DFM, 4045DFM50, 4045TFM, and 4045TFM
	12-VOLT, 11-TOOTH, 4.8 kW, OSGR		
<b>WAI</b> 	<b>2-3005-B0</b>		<b>JOHN DEERE</b> Engine Models 4024HF285, 4024HF295, 4024HF297, 4024TF220, 4024TF270, 4024TF280, 4024TF281, 4024TLV01, 4024TLV02, 4024TLV06, 4024TLV07, 4024TLV08, 4024TLV10, 4024TT001, 5030HF220, 5030HF270, 5030HF285, 5030HF286, 5030HF014, 5030TF220, and 5030TF270
	12-VOLT, 10-TOOTH, 2.6 kW, CW, PLGR		
<b>WAI</b> 	<b>2-3007-B0</b>		<b>DEUTZ</b> 1011 and 2011 Engines
	12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR		

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	Part Number	Replaces	Used On
<b>WAI</b> 	<b>2-3163-B0</b>		<b>BOBCAT</b> Skid Steer Loader Models 643, 743, 751F, 751G, 763, 773, 823, Trencher Model T190
	12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR		
<b>WAI</b> 	<b>50-111</b>	4930N	<b>FIAT-ALLIS</b> 8205, 25000 MKII Engine. <b>CATERPILLAR (CAT)</b> Engine Models 3406, 3408, 3412, 3508, 3512, 3516, D342, D343, D346, D353.
	24-VOLT, 11-TOOTH, CW, DD		
<b>WAI</b> 	<b>50-9122</b>	50-9122-1	<b>FIAT-ALLIS (CNH) 8065 engines</b>
	24-VOLT, 9-TOOTH, 4.0 kW, CW, DD		
<b>WAI</b> 	<b>91-29-5396</b>	91-29-53967N, 71-29-18513	<b>HONDA</b> GX340 (11HP), GX390 (13 HP) and GX390K1 (13 HP).
	12-VOLT, 14-TOOTH, 0.5 kW, CCW, PMOSGR		
<b>WILSON</b> 	<b>71-29-19250</b>		<b>HONDA</b> Small Engine Models GX630, GX630H, GX630R, GH630RH, GX660, GX660R, GX660RH, GX690, GX690H, GX690R, GX690RH
	12-VOLT, 10-TOOTH, CCW, DD		
<b>WILSON</b> 	<b>91-01-3948</b>		<b>FIAT-ALLIS</b> 8205, 25000 MKII Engine. <b>CATERPILLAR (CAT)</b> Engine Models 3406, 3408, 3412, 3508, 3512, 3516, D342, D343, D346, D353.
	24-VOLT, 11-TOOTH, CW, DD		

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Part Number	Replaces	Used On
<b>WILSON</b>		
 <b>91-01-4159</b> 24-VOLT, 11-TOOTH, 9.0 kW, CW, DD	91-01-3782	<b>CATERPILLAR (CAT)</b> 3402, 3406, <b>CUMMINS</b> L Series, 855, NTC, NTA, NH, and DETROIT DIESEL DD4-71/DD4-71D Engines
<b>WILSON</b>		
 <b>91-01-4366</b> 12-VOLT, 10-TOOTH, 2.9 kW, CW, OSGR	91-01-4313	<b>CUMMINS</b> B Series 3.9L and 5.9L 94-ON <b>CUMMINS</b> 4-239, 4.236M 3860CC, QSB 6.7 TIER I and II, 6-359, 6BT 5.9L 6 CYL 359 ci, 6BTA5.9-M 6 CYL 359 ci, 4BT3.9L
<b>WILSON</b>		
 <b>91-01-4515</b> 12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR	71-01-6792	<b>GM (GENERAL MOTORS)</b> 3.0L - 181ci - <b>4cyl</b> , 4.3L - 262ci - 6cyl, 5.0L - 305ci - 8cyl, 5.7L - 350ci - 8cyl, <b>6.2L - 377ci - 8cyl, 7.4L - 454ci - 8cyl, 8.1L - 496ci - 8cyl Engines</b>
<b>WILSON</b>		
 <b>91-01-4547</b> 12-VOLT, 10-TOOTH, 0.8 kW, CCW, PMDD	71-01-6744	<b>KOHLER</b> Engine Models 20 to 27 HP
<b>WILSON</b>		
 <b>91-01-4556</b> 12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR	91-01-4481, 91-01-4388, 91-01-4386, 91-01-4320, 71-01-6409	<b>GM (GENERAL MOTORS)</b> 4.3L - 262ci - 6cyl, 5.0L - 305ci - 8cyl, <b>5.7L</b> - 350ci - 8cyl, 7.4L - 454ci - 8cyl, 8.9L - 540ci - 8cyl Engine
<b>WILSON</b>		
 <b>91-02-5863N</b> 12-VOLT, 10-TOOTH, 1.4 kW, CW, PMGR	91-02-5863	<b>FORD</b> LSG/LRG423 Engines

Part Number	Replaces	Used On
<b>WILSON</b>		
 <b>91-02-5864</b> 12-VOLT, 10-TOOTH, CW, 1.5 kW, PMGR		<b>FORD</b> 7.0L (429) V8 Gas Engines
<b>WILSON</b>		
 <b>91-02-5907N</b> 12-VOLT, 11-TOOTH, 1.5kW, CW, PMGR	91-02-5907	<b>FORD</b> 2.3L Engines
<b>WILSON</b>		
 <b>91-02-5910N</b> 12-VOLT, 11-TOOTH, CW, PMGR	91-02-5910	<b>FORD</b> MSG-425 Engines
<b>WILSON</b>		
 <b>91-15-7077</b> 12-VOLT, 11-TOOTH, 1.4 kW, CW, PMGR	91-15-7076	<b>BOBCAT</b> Skid Steer Loader Models 643, 743, 751F, 751G, 763, 773, 823, Trencher Model T190
<b>WILSON</b>		
 <b>91-15-7142</b> 12-VOLT, 11-TOOTH, 2.2 kW, CW, PLGR	91-15-7066	<b>DEUTZ</b> Engine Models F4L2011, F4L1011, F3L2011, F3L1011, F3L1011F, BF4L1011FT, BF4L1011, F2L1011, and F4L1011F
<b>WILSON</b>		
 <b>91-15-7153</b> 24-VOLT, 9-TOOTH, 4.0 kW, CW, DD	91-19-2509	<b>FIAT-ALLIS (CNH) 8065 engines</b>







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Part Number	Replaces	Used On
<b>WILSON</b>		
 <b>91-15-7159</b> 12-VOLT, 9-TOOTH, CW, 2.3 kW, PLGR, DEUTZ		<b>DEUTZ</b> Engine Models BF4L2011, D2011 L2i, BM2011F, BF4M2011, F3M, D2011 L02, D2011 L03i, L2011 L03, F2M2011, F3M2011F, BF3M2011F, F3M2011, F3L2011, F3L1011, F3L1011F, TD2011 L04w, BF2011, TD2011 L04i, BF3L2011, BF3M2011, BF4M2100, BF4L1011, BF4L1011FT, F2L2011, F4L2011, F4M2011, TCD2011 L4, F4M. <b>INGERSOLL RAND</b> Mini Excavator ZX75. <b>VERMEER</b> Ride on Trencher RT450. <b>BOBCAT</b> Compact Excavator 442. <b>WACKER NEUSON</b> Compact Track Loader 1101P, Skid Steer Loader 901S/SP, Wheel Dumpers 1001, 6001, 9001 and Wheel Loader WL48
<b>WILSON</b>		
 <b>91-17-8880</b> 12-VOLT, 10-TOOTH, 2.8 kW, CW, DD	91-17-8869, 91-23-6550	<b>PERKINS</b> Engine Models 4-236, 4-248, 4-318, 6-354.
<b>WILSON</b>		
 <b>91-19-2510</b> 24-VOLT, 9-TOOTH, 4.0 kW, CW, DD	91-15-6952	<b>FIAT-ALLIS</b> Crawler Loader Models FL-5, FL-5B. Motor Grader Model 65B. Wheel Loader Model FR70
<b>WILSON</b>		
 <b>91-19-2512</b> 12-VOLT, 10-TOOTH, 3.0 kW, CW, PLGR	91-23-6542	<b>PERKINS</b> Engine Models 1004C-44TA G2, 1104C-44T G3, 1104C-44T AG1, 1006C-E66TAG2, 1006C-E66TAG3, 1006C-E66TAG4, 1104D-44T, 1006-60T.
<b>WILSON</b>		
 <b>91-23-6526</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR	91-15-7144	<b>HATZ</b> Engine Models 1D42/1D42C/1D42S, 1D50, 1D81/1D81C, 1D81Z, 1D90 V/W, 1D90/1D90Z, 1D90V.









Part Number	Replaces	Used On
<b>WILSON</b>		
 <b>91-23-6534</b> 12-VOLT, 9-TOOTH, 2.3 kW, CW, PLGR	91-15-7159	DEUTZ 1011 and 2011 Engines
<b>WILSON</b>		
 <b>91-23-6544</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR	91-15-7143, 71-15-18949	PERKINS Engines 103-13 3 CYL-21 KW, 103-15 3 CYL-23.5KW, 104-19 4 CYL 32KW, 104-22 4 CYL-37KW, 403C-07 3R-13.4KW, 403C-10 3R-13.6KW, 403C-10 3R-16.6KW, 403C-11 3R-19.5KW, 403C-11G, 403C-15 3R-25.1KW, 403C-15G, 404C-20 4R-38KW, 404C-22G 4R-38KW, 404C-22T 4R-44.7KW, 403D-11, 403D-11G, 403D-15, 404D-22, 403G-15G, 404D-22G, 403D-II-TIER 3, 404-22D TIER 3, 404DT-22. CATERPILLAR (CAT) Engine Models C2.2, 3024C, C1.5, 3013, 3013C, 3024, 3024C, 3014
<b>WILSON</b>		
 <b>91-23-6552</b> 12-VOLT, 9-TOOTH, 3.0 kW, CW, PLGR	91-15-7139	DEUTZ Engine Models 3-172, 3-187, 4-230, 4-249, 6-374, F3L912, F3L913 F3L914, F4L912, F4L913, F4L914, F5L912, F5L914, F6L912, F6L913, F6L914, BF6L913/C, BF4M2012/C, TCD2012 L04, TCD2012 L06, BF4M1011/F, BF4M1012E/EC, BF4M1013E/EC, BF6M1013 FC, BF5M1011, BF3L914, BF6M1012/E, BF6M2012C, BF4L913/T
<b>WILSON</b>		
 <b>91-25-1102</b> 12-VOLT, 15-TOOTH, 1.4 kW, CW, OSGR	71-25-18205	YANMAR 4 Cylinder Diesel Engine Models 4T95, 3T84C, 4TNE84, 4JH3-TE-YEU, 4JH3-TE, 4JH3ZA, 4JH3-THE, 4JH3-TCE, 4JH3, 4JH3-CE, 4JH2-UTE, 4JH2L-HTNE
<b>WILSON</b>		
 <b>91-25-1134</b> 12-VOLT, 11-TOOTH, 1.2 kW, CW, PMGR	91-25-1123, 71-25-18210	ISUZU Engine Models 3CA1, 3CB1, 3CD1, 3CE1.






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Part Number	Replaces	Used On
<b>WILSON</b>		
 <b>91-26-2059</b> 12-VOLT, 9-TOOTH, BOBCAT 3400 SERIES ATV	71-26-18645	<b>BOBCAT</b> 3400 Series UTV'S and <b>POLARIS</b> UTV and ATV Model years 1998-2013
<b>WILSON</b>		
 <b>91-27-3150</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, PMGR		<b>NISSAN</b> A15, H20, H25, and Z24 Engines
<b>WILSON</b>		
 <b>91-27-3154N</b> 12-VOLT, 9-TOOTH, 0.8 kW, CW, DD	71-27-16791, 91-27-3154	<b>KUBOTA</b> Engine Models WG750, D600B, D640B, WG600B, Z430-K1, WG750-G, Z400, Z430, D601
<b>WILSON</b>		
 <b>91-27-3332</b> 12-VOLT, 14-TOOTH, 1.7 kW, CW, PMGR		<b>MITSUBISHI</b> Engine Models L3E-W262KL, L3E-W231KBS, and L3E 15.2HP Diesel
<b>WILSON</b>		
 <b>91-29-5030</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR	91-29-5030, 91-29-5074	<b>JOHN DEERE</b> Skid Steer Loaders, ELGIN Sweepers, <b>HYS-</b> <b>TER</b> Forklifts, THERMO KING Refrigeration, CHEVROLET Iuv Pickup, <b>ISUZU</b> Pick-up, <b>ISUZU</b> Trooper,
<b>WILSON</b>		
 <b>91-29-5068</b> 12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR		<b>CASE</b> Engine Models <b>CASE</b> 445TA/E3, FPT 445TA/E3 110HP, FPT 445TA/M3 95HP, FPT 445TA/E3 97HP, FPT 445T/MMG 85HP, 4.5L 4cyl 80HP Diesel, 4.5L 4cyl 89HP Diesel, 4.5L 4cyl 90HP Diesel, 4.5L 4cyl 99HP Diesel, 6.7L 6cyl 99HP Diesel, and 445T/M3

	Part Number	Replaces	Used On
<b>WILSON</b>			
			
	<b>91-29-5120</b> 12-VOLT, 9-TOOTH, 1.4kW, CW, OSGR	91-29-5212, 91-29-5214	<b>KUBOTA</b> Engine Models D1301A, D1302, D1302DI, D1402, D1402BH, D1702, D1703-B, D1902, D1902BH, V1402, V1500A, V1702DIA, V1902B, V2203, V2203E, S2800B, F2803, F2803E.
<b>WILSON</b>			
			
	<b>91-29-5130</b> 12-VOLT, 10-TOOTH, 2.5 kW, CW, DD	91-01-4282, 91-01-4208	<b>PERKINS</b> Engine Models 3-152, 6-354, 4-203, 4-236, 1004, 1104C-44, 1104, <b>INTERNATIONAL GERMAN</b> Diesel Engine D-310
<b>WILSON</b>			
			
	<b>91-29-5322</b> 12-VOLT, 10-TOOTH, 2.5 kW, OSGR		<b>JOHN DEERE</b> Engine Models 4039 and 4045.
<b>WILSON</b>			
			
	<b>91-29-5323</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, OSGR	91-29-5183	<b>KUBOTA</b> Engine Models V2403MT, V2203, V2203E
<b>WILSON</b>			
			
	<b>91-29-5372</b> 12-VOLT, 11-TOOTH, 2.5 kW, CW, OSGR	91-29-5106	<b>JOHN DEERE</b> Engine Models 4039DFM 4 CYL, 239ci, 3.9L 2000-2007, 4045DFM50, 4045, 4.5L 2004-2007, 4045DFM70 4 CYL, 276ci, 4.5L 2004-2207, 4045TFM 4 CYL, 276ci, 4.5L, 4045TFM50 4 CYL, 276ci, 4.5L, 4045TFM75 4 CYL, 276 ci, and 4.5L 2004-2007
<b>WILSON</b>			
			
	<b>91-29-5381</b> 12-VOLT, 10-TOOTH, 1.4 kW, CW, OSGR		<b>BOBCAT</b> Compact Track Loaders and Skid Steers, CLARK Skid Steer Loaders.

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Part Number	Replaces	Used On
<b>WILSON</b>		
 <b>91-29-5396</b> 12-VOLT, 14-TOOTH, 0.5 kW, CCW, PMOSGR	71-29-18513	<b>HONDA</b> Engine models GX340 (11HP), GX390 (13 HP) and GX390K1 (13 HP).
<b>WILSON</b>		
 <b>91-29-5450</b> 12-VOLT, 9-TOOTH, 1.2 kW, CW, OSGR	71-29-18400, 91-29-5307	<b>KUBOTA</b> Engine Models D1005, V1505-B, V1305B, D1105T, D905B.
<b>WILSON</b>		
 <b>91-29-5457</b> 12-VOLT, 11-TOOTH, 4.8 kW, OSGR	91-29-5433	<b>JOHN DEERE</b> Engine Models 4045D, 4039DFM, 4039DFM, 4045DFM50, 4045TFM, and 4045TFM
<b>WILSON</b>		
 <b>91-29-5470</b> 12-VOLT, 10-TOOTH, 2.0 kW, CW, OSGR		<b>KUBOTA</b> Engine Models D1703B, D1703E2B, V2203E-B, V2403, V2003TEB, D1105E2B, D1803MD1, V2403M-D1, V2403M and V1505.
<b>WILSON</b>		
 <b>91-29-5524</b> 12-VOLT, 9-TOOTH, 1.1 kW, CW, PLGR		<b>YANMAR</b> Engine Models 3T72, 3T75, 3TN75, 3TNA72, 3TNA75
<b>WILSON</b>		
 <b>91-29-5603</b> 12-VOLT, 9-TOOTH, 2.2 kW, CW, OSGR	91-29-5564	<b>CUMMINS</b> B3.3L, B303T & QSB 4.5T Engines from 2003 on

	Part Number	Replaces	Used On
<b>WILSON</b> 	<b>91-29-5616</b>	91-29-5138, 91-29-5581	<b>CUMMINS</b> Engine Models 4-390, 4T-390, 390, 5.9L ISB, B SERIES 3.9L, B SERIES 5.9L, QSB 6.7 Tier I, and QSB 6.7 Tier II
	12-VOLT, 13-TOOTH, 2.5 kW, CW, OSGR		
<b>WILSON</b> 	<b>91-29-5662</b>	91-29-5563, 91-29-5662	<b>KUBOTA</b> Engine Models D722, D782, and WG-973
	12-VOLT, 9-TOOTH, 0.9 kW, CW, PLGR		
<b>WILSON</b> 	<b>91-29-5683</b>		<b>CUMMINS</b> Engine Models QSB 4.5 and 6.7 Tier III
	12-VOLT, 10-TOOTH, 2.7 kW, CW, OSGR		
<b>WILSON</b> 	<b>91-31-9008</b>		<b>KUBOTA</b> Engine Models V1505, V1903EB, V2203EB V2003/V2403, V2607, V2607DIT, V3300, V3300DI, V3307DIT, and V3800DI-T
	12-VOLT, 11-TOOTH, 2.7 kW, CW, PLGR		
<b>WILSON</b> 	<b>91-35-1028</b>	71-35-5776	<b>BRIGGS &amp; STRATTON</b> 16-21 HP OHV V-TWIN Gas Motors
	12-VOLT, 15-TOOTH, 0.7 kW, CCW, PMDD		

Part Number	Replaces	Used On
<b>YALE</b>		
 <b>19960489</b> 12-VOLT, 9-TOOTH, 2.0 kW, CW, PMGR	19960488, 50027532	<b>PERKINS</b> Engine Models 103-13 3 CYL-21 KW, 103-15 3 CYL-23.5KW, 104-19 4 CYL 32KW, 104-22 4 CYL-37KW, 403C-07 3R-13.4KW, 403C-10 3R-13.6KW, 403C-10 3R-16.6KW, 403C-11 3R-19.5KW, 403C-11G, <b>403C-15 3R-25.1KW, 403C-15G, 404C-20 4R-38KW, 404C-22G 4R-38KW, 404C-22T 4R-44.7KW, 403D-11, 403D-11G, 403D-15, 404D-22, 403G-15G, 404D-22G, 403D-II-TIER 3, 404-22D TIER 3, 404DT-22</b>
<b>YANMAR</b>		
 <b>119125-77010</b> 12-VOLTS, 9-TOOTH, 1.2 kW, CW, PMGR		<b>BOBCAT</b> 3400, 3400XL, 3450, 3600, and 3650 UTV all Model years. <b>POLARIS</b> Brutus and Ranger 900 DIESEL UTV 2011-2014 Model years
<b>YANMAR</b>		
 <b>119626-77011</b> 12-VOLT, 9-TOOTH, 1.1 kW, CW, PLGR	119626-77010	<b>YANMAR</b> Engine Models 3T72, 3T75, 3TN75, 3TNA72, and 3TNA75
<b>YANMAR</b>		
 <b>171008-77011</b> 12-VOLT, 15-TOOTH, 1.4 kW, CW, OSGR	129136-77011, 129573-77010, 171008-77010	<b>YANMAR</b> 4 Cylinder Diesel Engine Models 4T95, 3T84C, 4TNE84, 4JH3-TE-YEU, 4JH3-TE, 4JH3ZA, 4JH3-THE, 4JH3-TCE, 4JH3, 4JH3-CE, 4JH2-UTE, 4JH2L-HTNE

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