



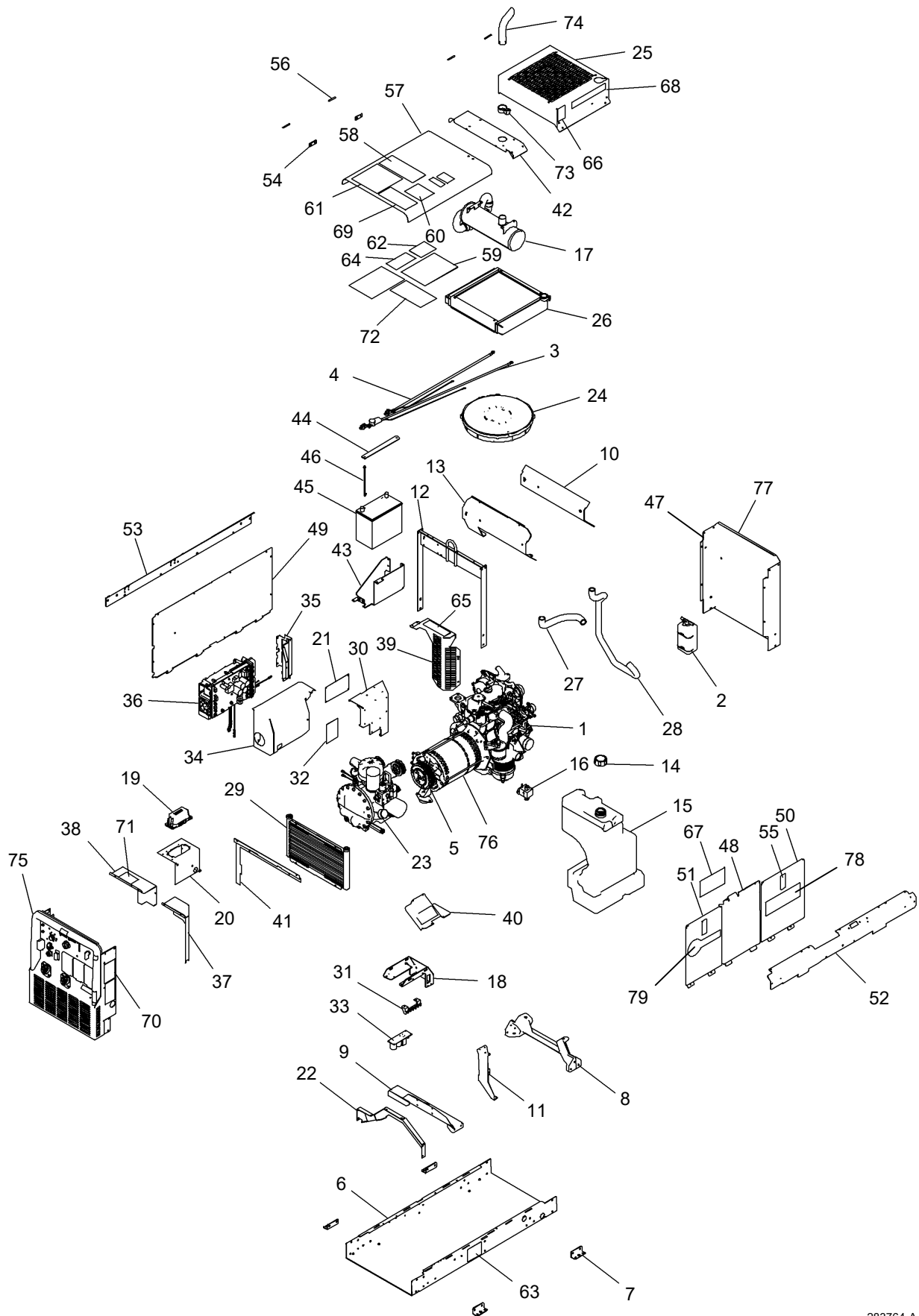
PM- 281710 F

Bobcat 200 Air Pak Diesel

Effective with Serial Number
MK021122R - ZZ222222R



PARTS MANUAL



283764-A

Main Assembly

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		281669	Engine, Kubota Dsl Elec D722 w/Components	1
/		242954	Block Heater, Engine Kubota 05 Series Head Type	1
/		284101	Tune Up & Filter Kit, Kubota (D722)	1
/		281670	Engine, Kubota Dsl Elec D722	1
/		401455	ECU	1
2		283020	Bottle, Coolant Overflow	1
/		281678	Flange, Oil Filler	1
/		242954	Block Heater, Engine Kubota 05 Series Head Type	1
/		258342	Bracket, Mtg Engine	2
/		258490	Hose Assy, Oil Drain	1
/		281686	Assy, Fuel Line w/Clamps (.560 Od x 8.500Lg)	2
/		282897	Assy, Fuel Line w/Clamps (.410 Od x 2.000 Lg)	MK021122R - NA300602R 1
/		282899	Hose, SAE .197 Id x .410 Od x 2.000	NA300602R - ZZ222222R 1
/		287779	Clamp, Oetiker 1 Ear 9.7-11.3mm x 7mm St Cl Zink	NA300602R - ZZ222222R 1
* /		213858	Filter, Fuel In-Line 5/16 x 5/16 Mic 125 -175	1
* /		259934	Filter, Fuel Kubota (D722/D902)	1
* /		283082	Engine Fan Belt	1
* /		187820	Glow Plug,	1
3		281825	Cable, Battery Positive 36 in 4 Awg .312 Ring	1
4		281823	Cable, Battery Negative 32 in 4 Awg .375 Ring	1
/		278416	Clamp, Stl Cush 1.000 Dia x .281 Mtg Hole	1
/		260506	Clamp, Stl Cush .375 Dia x .281 Mtg Hole	2
5		229813	Clutch, Electro Mgntc 12V 6Pk Micro V Pulley	1
6		281859	Base	1
7		213668	Bracket, Mtg Unit	4
8		281683	Bracket, Mtg Base Engine	1
/		282766	Mount, Engine 50 Duro Flange Mtg (White Dot)	2
9		281860	Bracket, Mtg Generator	1
/		213266	Mount, Engine/Generator Flange Mtg	1
/		283612	Clip, Edge w/Cable Tie (10mm-30mm)	2
10		278145	Shield, Heat Reflective (Baffle)	1
11		281672	Bracket, Mtg Fuel Filter	1
12		274657	Upright, Base	1
13		281684	Baffle, Muffler	1
/		278535	Shield, Heat Reflective (Tank)	1
14		220711	Cap, Tank Screw On w/Vent	1
15		281685	Tank, Fuel 70 Gal w/Sender	1
/		283065	Assy, Fuel Line w/Clamps And In-Line Filter	1
/		283095	Assy, Fuel Line w/Clamps/Tubing (.410 Od x 43.750 Lg)	1
/		239319	Ftg, Hose Brs Barbed Elbow M 5/16 Tbg x 1/8 Npt	2
16		239311	Pump, Fuel Electric 12V	1
17		281681	Muffler, Exhaust Engine (Kubota D722)	1
18		281861	Bracket, Mtg Compressor	1

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Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		187431	Air Cleaner, Intake Dry Straight Outlet Type	1
/		187432	Bracket, Mtg Air Cleaner	1
/		187640	Clamp, Air Cleaner w/Latch	1
19		281689	↓ Bracket, w/Components/Harness	1
19		Fuse Box Assembly (See following for subassembly information)		
20		283061	→ Bracket, Mtg Fuse Block	1
/		271607	Weatherstripping, Adh .125 x .375 x 3.125	1
/		233821	Weatherstripping, Adh .125 x .375 x 5.000	1
21	PC3	280897	Circuit Card Assy, Control w/Program	1
/		283568	Clamp, Cushion J Clip	2
/	W1	278934	Contact, 14 Dc	1
22		282911	Bracket Assy, Mtg Compressor (Front)	1
23		Air Compressor Assembly (See following for subassembly information)		1
* /		274630	Belt, Compressor	1
* /		275644	Kit, Filter/Separator, Compressor w/Oil	1
/		232207	Filter, Oil Air Compressor	1
/		275648	Separator, Oil/Air Rotary Screw Compressor	1
/		232208	Filter, Inlet Air Air Compressor	1
/		276620	Oil, Air Compressor Rotary Screw (Synthetic) (Quart)	2
/		283031	Hose, Sae .281 Id x .460 Od x 6.150	1
24		281673	Fan, Engine Cooling (Electric)	1
/		010861	Clamp, Hose 1.312 - 2.250 Clp Dia	2
/		189674	Clamp, Hose .687 - 1.500 Clp Dia Sae #16	4
25		283775	Housing, Radiator	1
26		281674	Radiator	1
27		281675	Hose, Radiator Upper	1
28		281676	Hose, Radiator Lower	1
/		281677	Hose, Intake	1
29		274548	Radiator, 11.050 x 18.610 x .750-16 Ports	1
/		239094	Ftg, Adapter Stl 1/2Sae(M) x 1/2Jic(M)	2
/		274549	Hose, Oil w/Fittings .375 Id x 22.000 Lg	1
/		027450	Hose, Oil w/Fittings .375 Id x 12.000 Lg	1
30		281854	Bracket, Mtg Control Board & Components	1
31	1T	172661	Block, Stud Connection 6 Position	1
32	PC5	275464	Circuit Card Assy, Battery Charger Clamp Pcb	1
33	PC2	281849	Circuit Card Assy, Excitation	1
/	L2	284141	Inductor, Output	1
/		114923	Boot, Insulator Term Post Red 1/0 Cable .875 Od x 1.00	1
34		281724	Cover, Windtunnel Encloser Front	1
35		282545	Cover, Windtunnel Encloser Rear	1
36		281726	↓ Assy, Windtunnel w/Components	1
/	PC1	282088	→ Circuit Card Assy, Bobcat/Enpak w/Program	1
/		263000	→ Fan, Muffin 24 Vdc 9000 Rpm 134 Cfm 80mm	1

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Item No.	Dia. Mkgs.	Part No.	Description	Qty
37		275476	Guard, Electrical Receptacle	1
38		283060	Guard, Electrical Left Upper	1
39		274681	Guard, Belt	1
/		020279	Clamp, Stl Cush .687 Dia x .281 Mtg Hole	3
40		282070	Guard, Electrical Lower	1
41		275711	Baffle, Cooler	1
/		006086	Blank, Snap-In Nyl 1.500 Mtg Hole Black	1
/		283120	Seal, Weather Stripping .125 x .375 x 8.500	1
/		283121	Seal, Weather Stripping .125 x .375 x 11.500	1
/		270736	Insulator, Mylar .014 x 5.000 x 3.500	3
/		202209	Spacer, Nylon .805 Od x .510 Id x .220 Lg	2
/		238802	Clip, Retaining Supplementary Protector	1
/		282093	↓ Plug, w/Leads	1
/		283732	→ Cover, Protective Cap 10 Pin Rcpt	1
42		283791	Shield, Muffler	1
43		283030	Bracket, Battery Tray	1
44		274686	Bracket, Battery Holddown	1
* 45			Battery, Stor 12v 450 Crk 70 Rsv Gp 51r Maint Fre	1
46		494604	Bolt, J Stl .250-20 x 8.000 Pld w/Nut&Washer	1
/		256531	Clamp, Stl Cush 2.000 Dia x .531 Mtg Hole	1
47		282110	Panel, Rear Miller Black/Zinc	1
48		275527	Panel, Side (Service Side)	1
49		282866	Panel, Side (Non-Service Side)	1
50		280248	Door, Side (Service Side) Service	
51		280249	Door, Access (Service Side) Service	
52		281866	Rail, Side Door	1
53		282051	Rail, Side Hinge	1
54		282837	Spacer, Hinge	2
55		194320	Latch, Lever Flush Trigger	3
56		189975	Hinge, Door Access 180 Deg	4
/		217395	Bumper, Door .500 Od x .250 High Nprn 70 Duro	17
/		251862	Catch, Cover Telescoping Push Button	1
57		281716	Cover, Top Service Assy	
/		277339	Blank, Snap-In Nyl 1.250 Mtg Hole Black	1
/		278356	Blank, Snap-In Nyl 1.000 Mtg Hole Black	1
58		227734	Label, Warning Battery Charging Precautions	1
59		281700	Label, Maintenance Enpak A30/Bobcat 200 Ap (Diesel)	1
60		233088	Label, Danger Using A Generator Indoors Can Kill	1
61		233639	Label, Warning General Precautionary Csa (En/Fr/Sp)	1
62		227728	Label, Warning Use Diesel Fuel Only (Trilingual)	1
63		275820	Label, Warning Do Not Weld On Base (Tri)	2
64		227913	Label, Warning Battery Explosion Can Blind	1
65		276283	Label, Warning Moving Parts Can Cause Serious Etc	1

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Main Assembly

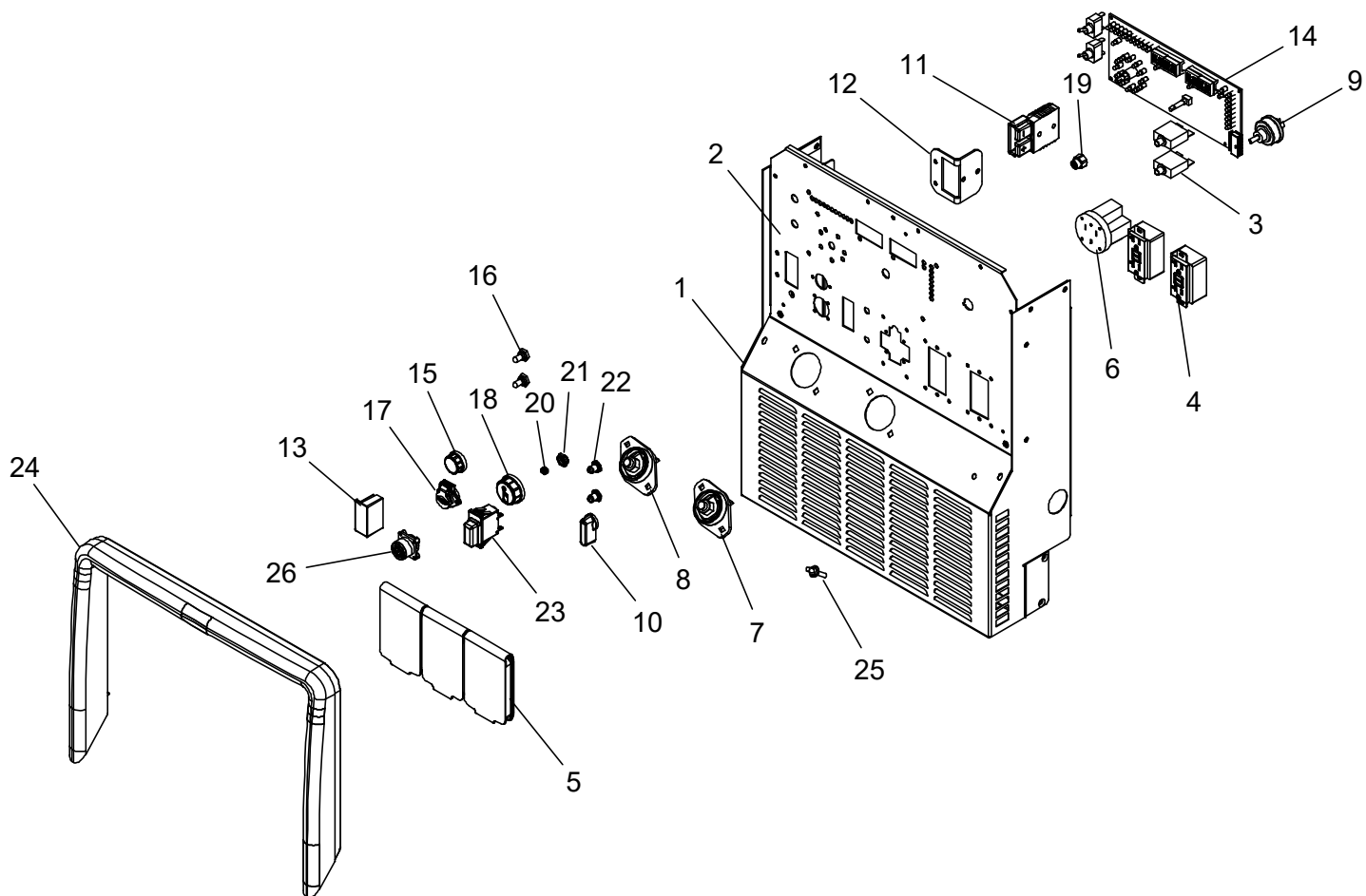
Item No.	Dia. Mkgs.	Part No.	Description	Qty
66		272333	Label, Warning Hot Parts (En/Fr/Sp-Sym)	2
67		283021	Label, Notice Radiator Fill	1
68		243022	Label, Warning Steam And Hot Coolant Can Burn 6in X	1
69		282178	Label, Warning Breathing Diesel Engine Exhaust	1
70		280750	Label, Warning Compressed Air	1
71		282410	Label, Fuse Identification (Diesel)	1
72		278439	Label, Fuel/Hour/Engine Shutdown	1
* /		281730	Kit, Label	
* /		284101	↓ Tune Up & Filter Kit, Kubota (D722)	
/		187443	→ Filter, Oil Kubota (D722FB-25)	1
/		187441	→ Air Filter, Kubota (D722FB-25)	1
/		280960	Ftg, Elbow 90 Deg 8(F) Jic 3/4 16 w/Swivel-8 Hose (Compressor)	1
73		262681	Clamp, Band (Muffler)	1
74		262680	Pipe, Exhaust Elbow	1
/		278467	Grommet, Rbr 1.250 Id x 1.500 Mtg Hole .063 Groove	1
75		Front Panel Assembly (See following for subassembly information)		
76		Generator Assembly (See following for subassembly information)		
* /		276418	USB Flash Drive	1
77		281699	Label, Rating Card Bobcat 200 Air Pak	1
78		277378	Label, Bobcat Air Pak	1
79		119503	Label, Miller 9.925 x 4.125 Horizontal (Not Shown)	1

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Front Panel Assembly

Front Panel Assembly

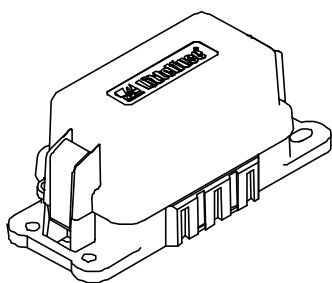
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/	CT1	277281	Xfmr, Current Sensing	1
1		281608	Panel, Front (Prior to ND480949R)	1
2		281606	Label, Nameplate Bobcat 200 D (Prior to ND480949R)	1
1		295223	Panel, Front (Eff/w ND480949R)	1
2		295226	Label, Nameplate Bobcat 200 D (Eff/w ND480949R)	1
/		282474	↓ Receptacles/Circuit Breakers, w/Leads	1
3	CB2-CB3	093996	→ Supplementary Pro, Man Reset 1P 20A 250 Vac Frict	2
4	RC2-RC3	222093	Rcpt, Str Dx Grd GFCI w/Capacitor	2
5		209056	Cover, Receptacle w/Gasket	3
/		282477	↓ Receptacles, w/Leads	1
6	RC1	182954	→ Rcpt, Str 3p4w 50A 125/250V Flush Mtg *14-50	1
7		241433	Terminal, Pwr Output Black	1
8		241432	Terminal, Pwr Output Red	1
9		217680	Switch, Ignition 4 Position w/Out Handle	1
10		207073	Lever, Ignition Switch	1
11		231162	Housing, Rcpt Battery Charger 175 Amp Black	1
12		231447	Bracket, Mtg Battery Charger Rcpt	1
13		231927	Dust Cover, 2 Pole Housing	1
14	PC4	280889	Circuit Card Assy, User Interface w/Program	1
/		282524	Foam, Led Process Select (12 Position)	1
/		278563	Foam, LED Dig	1
/		278564	Foam, LED Fuel And Service	1
15		245663	Knob, Encoder 1.250 Dia x .250 Id Push On w/Spring	1
16		252039	Boot, Half Toggle Switch Lever (Black)	2
17		276484	Harness, Front Panel USB	1
18		276230	Knob, Encod 1.67 D x 6mm Id Push On w/Spring/Print	1
19		278485	Assy, Encoder Nut w/O-Ring	1
20		280214	Spring, Wave (Stainless Steel)	1
21		231469	Nut, .500-28 .69 Hex .28h Brs Conical Knurl	1
22		190323	Boot, Circuit Breaker Clear Hex Nut	2
23	CB1	267194	Supplementary Protector, Man Reset 2p 30A 250V (Prior to ND480949R)	1
23	CB1	294837	Supplementary Protector, Man Reset 2P 30A 250Vac (Eff/w ND480949R)	1
24		237615	Bezel	1
25		197203	Grounding Stud Assy, Brass	1
/		282093	↓ Plug, w/Leads	1
26	RC40	189238	→ Conn, Circ Ms/Cpc 10skt Size 18 Rcpt Panel Pushin	1

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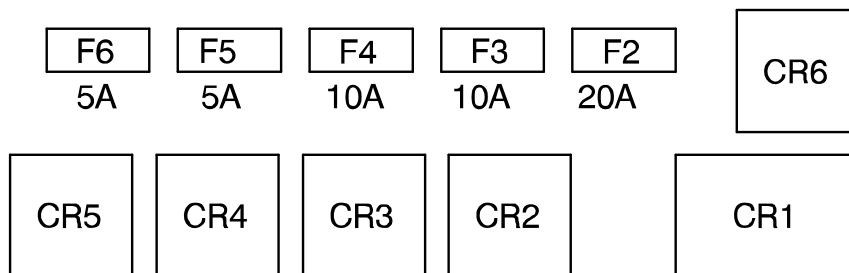
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CR1-Glow Plug Relay	F2-Battery Supply
CR2-Start Sequence Relay	F3-Engine ECU
CR3-Engine Starter Relay	F4-Fuel Pump
CR4-Comp Clutch Relay	F5-Start/Glow
CR5-Comp Blow Down Valve Relay	F6-Can Bus Power
CR6-Auto Start/Stop Relay	



282410-B

Fuse Box Assembly

Fuse Box Assembly

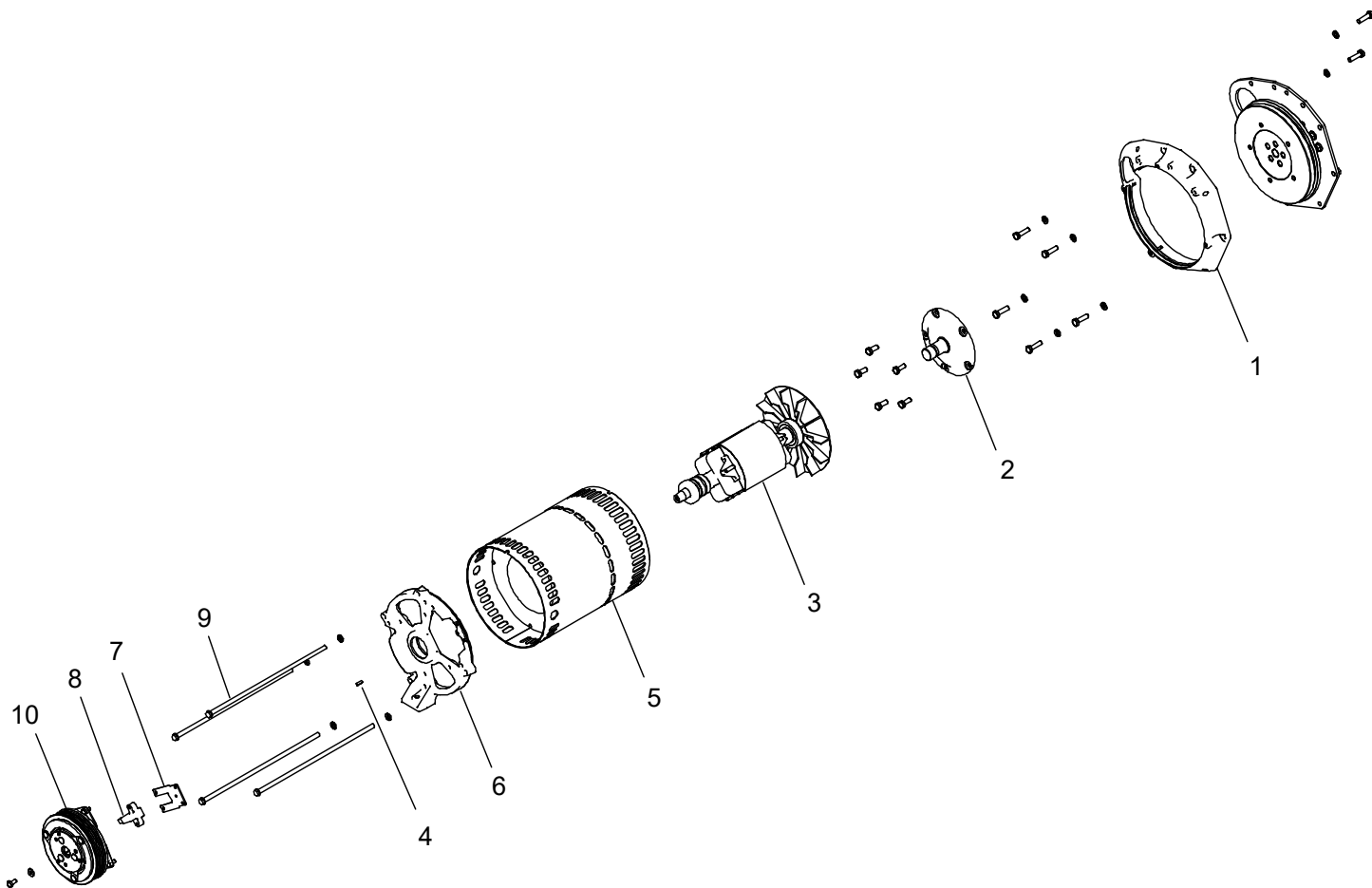
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		283061	Bracket, Mtg Fuse Block	1
/	CB4	190374	Circuit Breaker, Auto Reset 12 Vdc 40 Amp	1
/	CR1	281756	Relay, Encl 12Vdc Spst 35A Skt Mtg	1
/	CR2 CR6	281755	Relay, Encl 12 Vdc Spst 20A Skt Mtg	5
/	2T	172661	Block, Stud Connection 6 Position	1
* /	F2	281760	Fuse, Mini Blade Atm 20. Amp 32 Volt	1
/	F3 F4	281759	Fuse, Mini Blade Atm 10 Amp 32 Volt	2
* /	F5 F6	281758	Fuse, Mini Blade Atm 5. Amp 32 Volt	2
/		173734	Link, Jumper	1
/		283832	Jumper, Bus Mini Fuse	2

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Generator Assembly

Generator Assembly

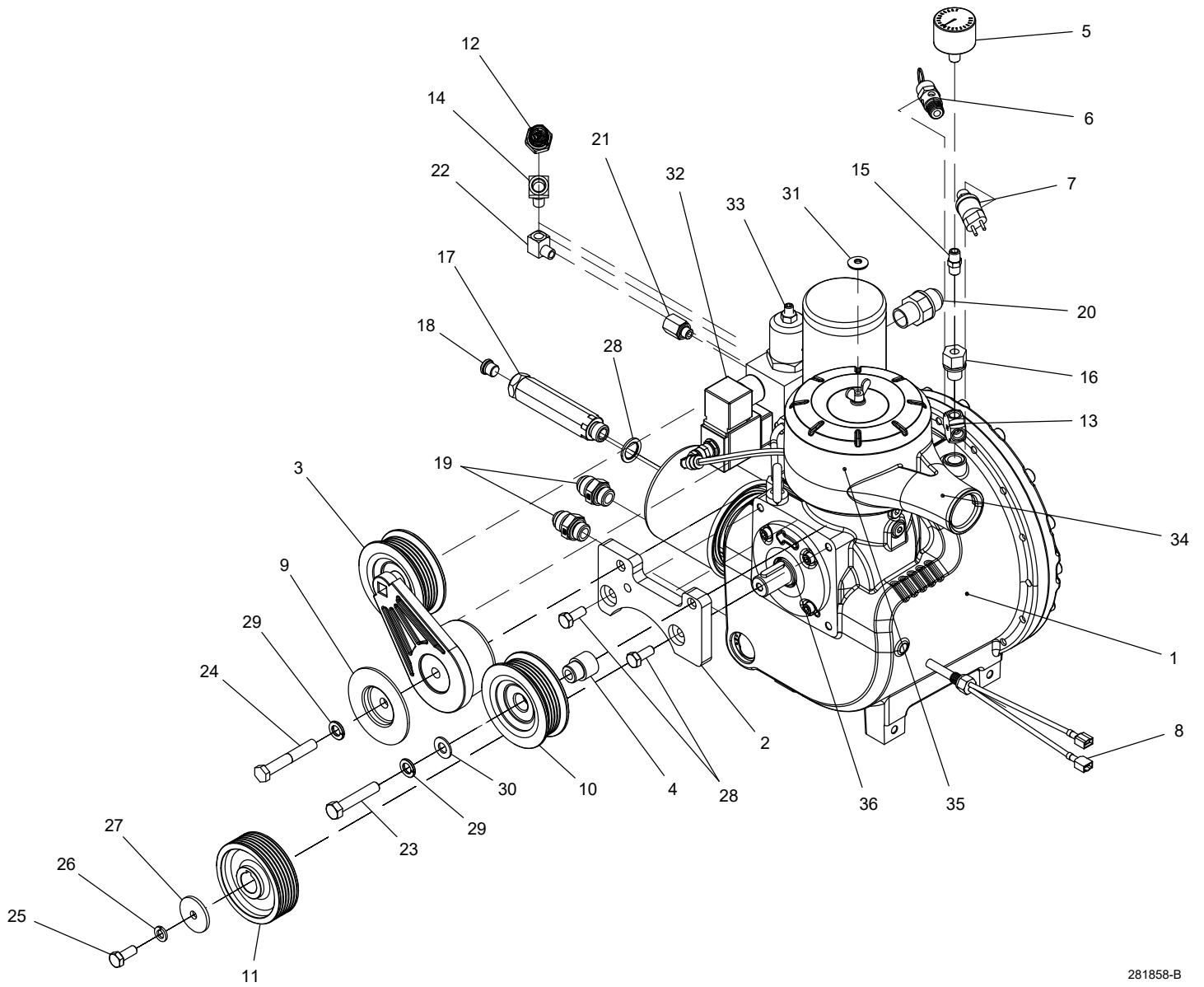
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		281671	Adapter, Engine	1
2		281680	Adapter, Rotor/Engine	1
3		282523	↓ Rotor, Generator	1
/		209004	→ Fan, Rotor Gen	1
/		273964	→ Bearing, Ball Rdl Sgl Row Long Life w/5k Grease	1
4		250655	Key, Woodruff .156 x .625	1
5		281808	Stator, Generator	1
6		281682	Endbell, w/Tolerance Ring	1
/		274002	Ring, Tolerance	1
/		260506	Clamp, Stl Cush .375 Dia x .281 Mtg Hole	1
7		274624	Bracket, Mtg Brush Holder	1
* 8		493509	Brushholder Assy, Generator	1
9		282561	Screw, 312-18 x 12.75 Hexwhd Stl Gr5 Pld	4
10		229813	Clutch, Electro Mgntc 12V 6Pk Micro V Pulley	1

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281858-B

Air Compressor Assembly

Air Compressor Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		279286	Compressor, Air Rotary Screw Evo1-Nk	1
2		274628	Plate, Mtg Tensioner	1
3		274629	Tensioner,	1
4		274626	Bushing, Idler	1
5		261094	Gauge, Pressure 1-1/2 0-300 Psi 1/8 Npt Rear Mt	1
6		274545	Valve, Pressure Relief 1/8 In Inlet 225 Psi	1
7		274546	Switch, Over Pressure	1
8		281875	Thermistor, Temp Wire Lead 1/4 Fast-On M10 x 1.0	1
9		277566	Spacer, Tensioner	1
10		274631	Pulley, Idler 6 Rib 76mm Dia, 17mm Id	1
11		282560	Pulley, Compressor 3.194 Dia	1
12		281876	Transducer, Pressure 200 Psi	1
13		274547	Ftg, Pipe Brs Cross 1/8 Npt	1
14		015732	Ftg, Pipe Brs Elbow St 45 1/8 Npt	1
15		073655	Ftg, Pipe Brs Nipple Hex 1/8 Npt	1
16		249370	Ftg, Adapter Stl 1/4 Bspp (M) x 1/8 Npt (F) w/Seal	1
17		274507	Ftg, Stl Drain 3/8 Bspp(M) Sae-4(F)	1
18		239106	Ftg, Stl Plug Sae 4(M)	1
19		229830	Ftg, Adapter Stl 3/8 Bspp (M) x 1/2 Jic 37 Deg	2
20		277525	Ftg, Adapter 8(M) Jic 3/4-16 To-8(M) Bspp G1/2-14	1
21		239560	Ftg, Stl Adapter 1/8 Bspp(M) x 1/8 Npt(F) w/Seal	1
22		020185	Ftg, Pipe Brs Elbow St 1/8 Npt	1
23		005943	Screw, .375-16 x .200 Hex Hd-Pln Gr5 Pld	1
24		127595	Screw, .375-16 x .250 Hex Hd-Pln Gr5 Pld	1
25		605579	Screw, M8 12 x 20 Hex Hd-Pln 88 Pld	3
26		602211	Washer, Lock .318 Id x 0.586 Od x .078T Stl Pld Split .312	1
27		273388	Washer, Flat .312 Id x 1.375 Od x .125t Stl F/W Zinc	1
28		249703	Seal, Bonded 3/8 Bspp	1
29		083883	Washer, Lock .402 Id x 0.709 Od x .087T Stl Pln Split 10mm	2
30		010910	Washer, Flat .406 Id x 0.812 Od x .065T Stl Pld Ansi .375	1
31		299183	Washer, Flat Bonded Seal SS .275 Id / .75 Od	1
32		278378	Valve, Solenoid (Service)	1
* 33		275402	Valve, Minimum Pressure Check	1
34		278382	Housing, Intake Filter	1
35		278383	Control, KD Air Inlet Valve	1
* /		275401	O-Ring, Intake Valve	1
36		278379	Kit, Shaft Seal	1

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Wiring Harnesses

Item No.	Dia. Mkgs.	Part No.	Description	Qty
		281691	↓ Harness, Wrg Unit	
		282319	→ Lead Assy, Twisted Pair	1
		282321	→ Lead Assy, Twisted Pair	1
		282480	→ Lead Assy, Twisted Pair	1
		282855	→ Lead Assy, Elect	1
	PLG34	281452	→ Conn, Rect Mini Tpa2 10skt 2Row Plug Blk Cable Lkg	1
	PLG36,PLG41	114426	→ Conn, Rect Mini 045 16skt 2Row Plug Cable Lkg	2
	PLG30	281453	→ Conn, Rect Mini Tpa2 12skt 2Row Plug Blk Cable Lkg	1
		261260	→ Plug, Cavity Cmc .635mm	23
	PLG1	281634	→ Conn, Amp Superseal 44pos 2row Plug	1
	PLG2	237895	→ Conn, Pack 3p 1row Plg Yazaki	1
		237896	→ Conn, Skt Female Yazaki	3
		240511	→ Conn, Rear Clip Yazaki	1
	PLG3	237897	→ Conn, Amp Econoseal 2Pin 1Row Plug	1
		237898	→ Conn, Skt Amp Econoseal	2
		240383	→ Seal, Conn 20Ga-16Ga	2
	PLG4	237901	→ Conn, Body 2 Pin Sealed Sumitomo	1
		237903	→ Conn, Skt Female .5 -1.25mm 1.6-2.6mmmod Tin/Brass	2
		237904	→ Seal, Conn Sumitomo Dark Green	2
	PLG5	192170	→ Conn, Rect 250 2skt 2Row Plug Cable Lkg	1
	PLG50	240032	→ Conn, Body 150 Series 3 Pos M/P Female Terms Sealed	1
		240033	→ Conn, Skt 150 Series M/P 18-20Ga .08-.10 Od	3
	PLG9	239682	→ Conn, Body 2 Pos Rcpt Weather Pack	1
		239683	→ Conn, Term Male 14Ga-16Ga Weather Pack	2
	PLG38	281448	→ Conn, Rect Mini Tpa2 2skt 2Row Plug Blk Cable Lkg	1
	PLG22	176121	→ Conn, Rect Univ 084 2P/S 1row Plug Cable Lkg	1
	PLG6	282225	→ Conn, Male	1
		282226	→ Term, Female Fast-On	2
		282227	→ Gasket, Seal 4-5 (mm)	2
		282230	→ Term, Female Fast-On	1
		282228	→ Gasket, Seal 16-22 (mm)	1
	S4	128808	→ Switch, Tgl Sptt 15A 125 Vac On-On-On Spd Term Chrom	1
	S3	011611	→ Switch, Tgl Dpdt 15A 125 Vac On-None-On Spd Term Chr	1
	PLG8	177859	→ Conn, Body 5 Terminal	1
	RC7	201507	→ Conn, Deutsch 6P 2row Rcpt	1
		239115	→ Conn, Deutsch Wedge Lock 6 Position	1
		238028	→ Conn, Deutsch 6P 2Row Female Plug	1
		238029	→ Conn, Deutsch Wedge Lock 6 Position	1
	RC51	281475	→ Conn, Rect Mini Tpa2 6Pin 2Row Rcpt Blk Cable Lkg	1
		279170	→ Plug, Cable (Comes On 274509 & 279286)	1
		250930	→ Alarm, Piezo Slow Pulse 4-16 Vdc 105/100 Db	1
		281757	→ Module, Fuse/Relay Holder	1
		215418	→ Term, Skt 3.0 M/P Feml Sealed	2

*Recommended Spare Parts ~ Optional ↓ Item includes other parts. → Item is part of a subassembly.

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Wiring Harnesses

Item No.	Dia. Mkgs.	Part No.	Description	Qty
		237893	→ Conn, Skt Female 1-5mm W/P 311mm Od Tin/Brass	50
		215432	→ Seal, Cable Plug Packard	2
		237888	→ Seal, Conn Weather Pack Green	53
		253060	→ Seal, Cavity Plug Weather Pack Green	8
		215343	→ Seal, Plug Deutsch 12-16 Size	7
		280875	→ Conn, Lever 5 Wire 12-28 Gauge 600V 20A	1
		282525	→ Conn, Lever 3 Wire 12-28 Gauge 600V 20A	1
		281488	→ Clip, Retainer Mini Tpa2 Nat 5 Ckt Housing	2
		281489	→ Clip, Retainer Mini Tpa2 Nat 6 Ckt Housing	2
		281485	→ Clip, Retainer Mini Tpa2 Nat 2 Ckt Housing	1
		281486	→ Clip, Retainer Mini Tpa2 Nat 3 Ckt Housing	2
		234625	→ Conn, Wt 1-Way Male	1
		234626	→ Conn, Pushin Skt 14-16 Ga	1
		282365	↓ Harness, Weld Module	
		282367	→ Lead Assy, Twisted Pair	1
		282369	→ Lead Assy, Twisted Pair	3
	PLG12	281469	→ Conn, Rect Mini Tpa2 3skt 1Row Plug Blk Cable Lkg	1
	PLG18	281470	→ Conn, Rect Mini Tpa2 4skt 1Row Plug Blk Cable Lkg	1
	PLG31	281449	→ Conn, Rect Mini Tpa2 4skt 2Row Plug Blk Cable Lkg	1
		281486	→ Clip, Retainer Mini Tpa2 Nat 3 Ckt Housing	1
		281487	→ Clip, Retainer Mini Tpa2 Nat 4 Ckt Housing	1
		281485	→ Clip, Retainer Mini Tpa2 Nat 2 Ckt Housing	2

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