

Motor and Pump Assembly

MASTER DIRECT OIL HEATERS

MODEL 65 CEL 20 kW

PARTS LIST

Key No.	Part Number	Description	Qty.	Key No.	Part Number	Description	Qty.
1	4110.130	Handle	1	16	4108.486	Hex Lock Nut, 1/4-20	2
2	4110.121	Upper Shell	1	17	4110.124	Screw/Lockwasher, 1/2"	4
3	4160.602	Screw	2	18	4150.553	Rubber Bumper	2
4	4109.590	Screw/Lockwasher	6	19	4100.635	Side Cover	1
5	4104.090	Combustion Chamber	1	20	4110.187	Motor Bracket	1
6	4103.529	Screw, #6-32 x 3/8"	2	21	4101.151	Bushing	1
7	4100.658	Photocell Bracket	1	22	4104.170	Clip Nut	6
8	4103.590	Photocell Assembly	1	23	4101.152	Bushing	1
9	**	Burner Strap Assembly	1	24	4110.124	Screw/Lockwasher, 1/2"	6
9-1	4100.647	Nozzle Assembly	1	25	4110.133	Screw	1
9-2	4515.958	Ignitor	1	26	4110.122	Lower Shell	1
9-3	4100.664	Nozzle Adapter	1	27	4104.147	Rubber Airline	1
9-4	4100.653	Nozzle Adapter Bracket	1	28	4109.567	Fuel Line	1
9-5	4100.669	Screw, #6-32 x 7/8"	1	29	4103.875	Fuel Filter	1
9-6	4100.660	Belleville Washer	1	30	4100.541	Rubber Bushing	1
10	4110.124	Screw/Lockwasherr	2	31	4100.656	Nylon Locknut	1
11	4100.662	Fan	1	32	4100.654	PCB Support	5
12	**	Motor and Pump Assembly	1	33	4110.142	PC Board	1
12-1	4110.079	Motor	1	34	4103.891	Fuel Cap (Includes Gasket)	
12-2	4101.317	Pump Body	1	35	4110.140	Fuel Tank	1
12-3	4108.635	Insert	1	36	4100.671	Shell Heat-Shield	1
12-4	4108.627	Rotor	1	37	4110.134	Nut	3
12-5	4109.724	Pump End Cover	1	38	4110.075	Vinyl Foam Gasket	1
12-6	4109.716	Lint Filter	1	39	4160.613	Lockwasher	1
12-7	4109.690	Intake Filter	1	40	4110.036	Wire Assembly (Brown)	1
12-8	4109.674	End Cover	1	41	4100.667	ON/OFF Switch	1
12-9	4108.528	Screw, #10-32 x 1"	3	42	4104.336	Switch Cover	1
12-10	4102.133	Adjusting Screw	1	43	4110.037	Wire Assembly (White)	1
12-11	4102.141	Pressure Relief Spring	1	PARTS AVAILABLE - NOT SHOWN			
12-12	4102.125	Plug	1				
12-13	4108.379	Steel Ball, 1/4" Diameter	1		4105.292	Filler Neck Screen	1
12-14	4109.708	Output Filter	1		4161.829	PC Board Fuse	1
12-15	4108.528	Screw #10-32 x 1"	6				
12-16	4100.661	Nylon Elbow, 90	1				
12-17	4101.200	Blade	4				
12-18	4108.588	Screw, #10-32 x 5/8"	2				
12-19	4100.666	Plastic Cap	1				
13	4103.685	Fan Guard	1				
14	4110.038	Power Cord	1				
15	4150.528	Strain Relief Bushing	1				

** Parts not available as an assembly, order parts separately.

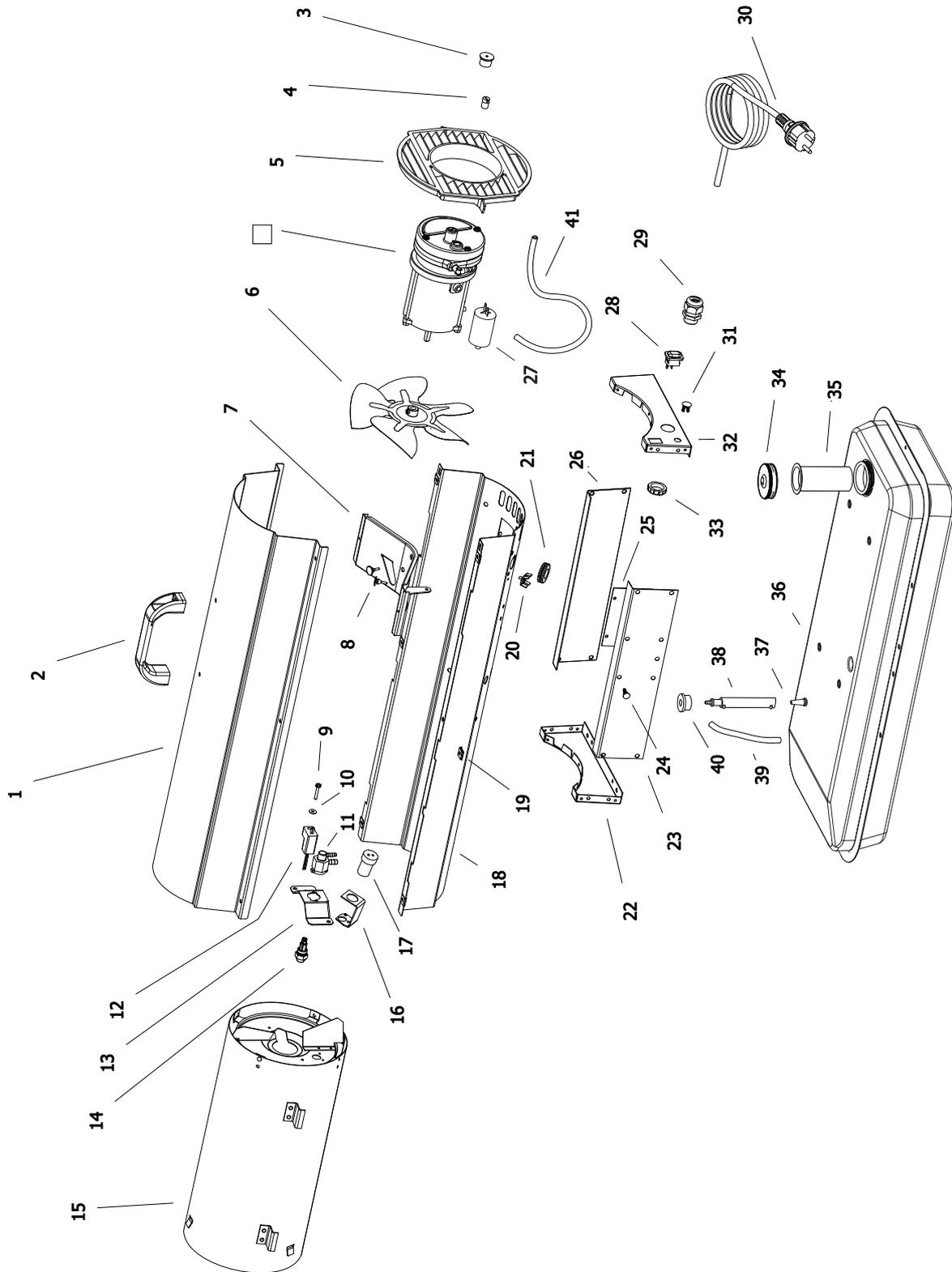
MODEL B65 CEL

UNIT 1

ILLUSTRATED PARTS BREAKDOWN

From Serial Number: 29109244

Edizione 2010
Rev. A



MODEL B65 CEL

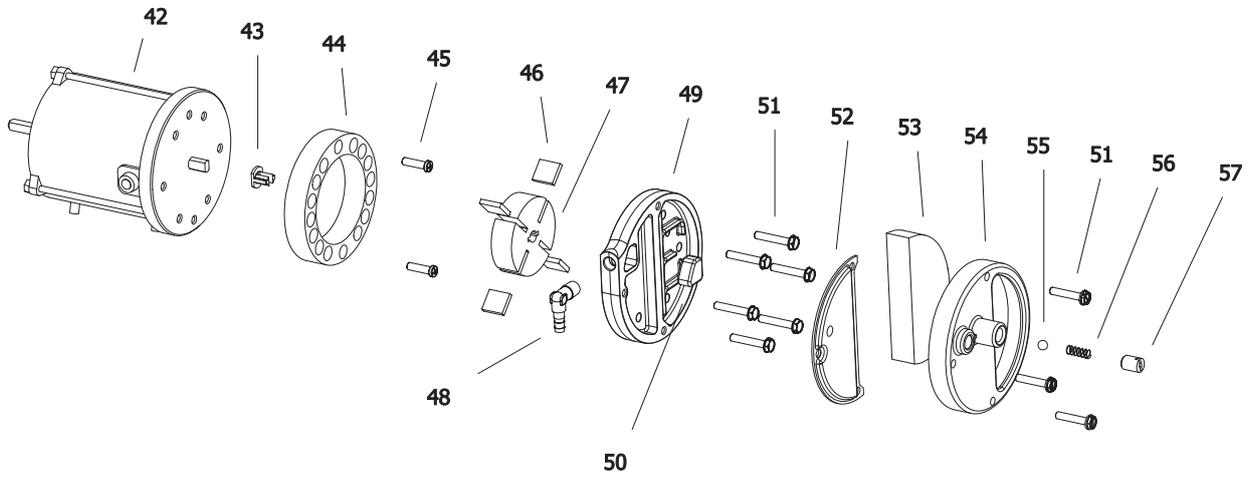
UNIT 2

ILLUSTRATED PARTS BREAKDOWN

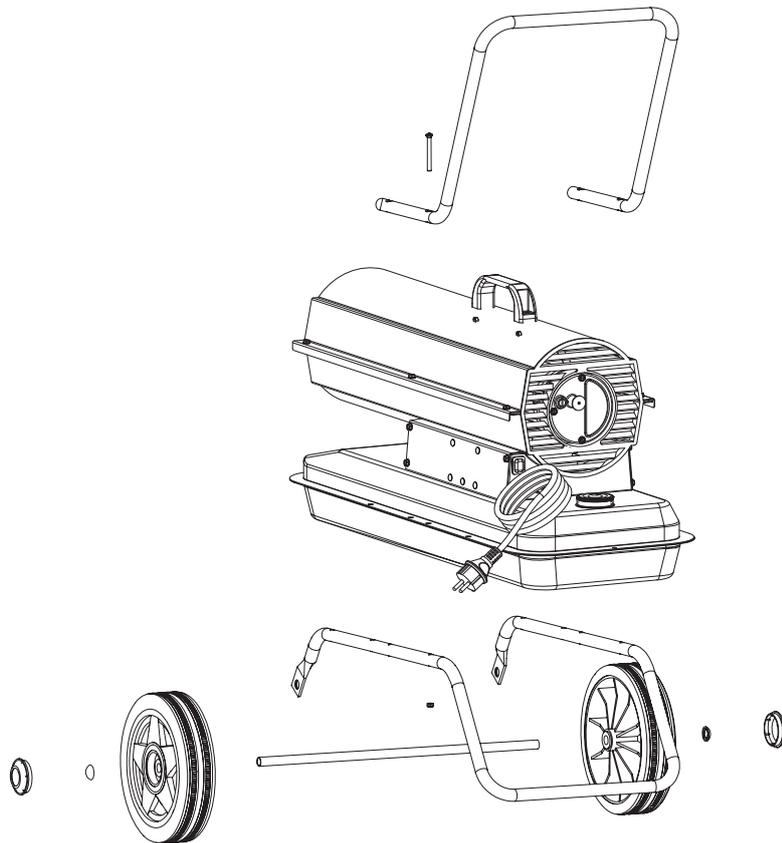
A

From Serial Number: 29109244

Edizione 2010
Rev. A



4103.925 Wheel Kit



MODEL B 65 CEL

Pos.	Code NR	Description
1	S/R	UPPER SHELL
2	4160.715	PLASTIC HANDLE
3	4100.666	COVER CAP
4	4102.125	PRESSURE GAUGE CAP
5	4103.685	FAN GUARD
6	4100.662	FAN
7	4110.187	MOTOR BRACKET
8	4150.553	BUMPER
9	4100.669	SCREW
10	4100.660	WASHER
11	4100.664	NOZZLE ADAPTER
12	4110.132	IGNITOR
13	4100.653	NOZZLE BRACKET
14	4515.958	NOZZLE
15	4110.126	COMBUSTION CHAMBER
16	4100.658	PHOTOCELL BRACKET
17	4103.590	PHOTOCELL ASSEMBLY
18	S/R	LOWER SHELL
19	4104.170	CLIP NUT
20	4160.639	POP RIVET WITH TERMIN. 4 WAY
21	4160.646	CABLE PROTECTION
22	4110.113	FRONT FRAME BRACKET
23	4100.635	CONTROL BOX SIDE PANEL
24	4110.460	PC BOARD SUPPORT
25	4110.142	IGNITION CONTROL ASSEMBLY
26	4110.560	SIDE PANEL
27	4110.293	CAPACITOR
28	4100.667	ON/OFF SWITCH
29	4150.528	STRAIN RELIEF
30	4110.451	POWER CORD
31	4100.649	PLASTIC CAP
32	4110.514	REAR FRAME BRACKET
33	4100.656	LOCKNUT
34	4103.891	FUEL TANK CAP
35	4105.292	FUEL TANK FILTER
36	4110.895	FUEL TANK
37	4110.356	FUEL FILTER
38	4110.391	FUEL LINE
39	4035.816	FUEL LINE

MODEL B 65 CEL

Pos.	Code NR	Description
40	4100.541	RUBBER BUSHING
41	4104.147	AIR LINE
42	4110.480	MOTOR 1/8 HP
43	4108.635	INSERT
44	4101.317	PUMP BODY
45	4108.588	PUMP BODY SCREW
46	4101.200	BLADE
47	4108.627	ROTOR
48	4100.661	BARB ELBOW
49	4109.724	PUMP END COVER
50	4109.716	LINT FILTER
51	4108.528	SCREW/LOCKWASHER 4,8x25
52	4109.708	OUTPUT FILTER
53	4109.690	INTAKE FILTER
54	4109.674	END COVER
55	4108.379	STEEL BALL
56	4102.141	PRESSURE RELIEF SPRING
57	4102.133	ADJUSTING SCREW
...	4103.925	WHEEL KIT HD B35/70

S/R = Parts available on special request only

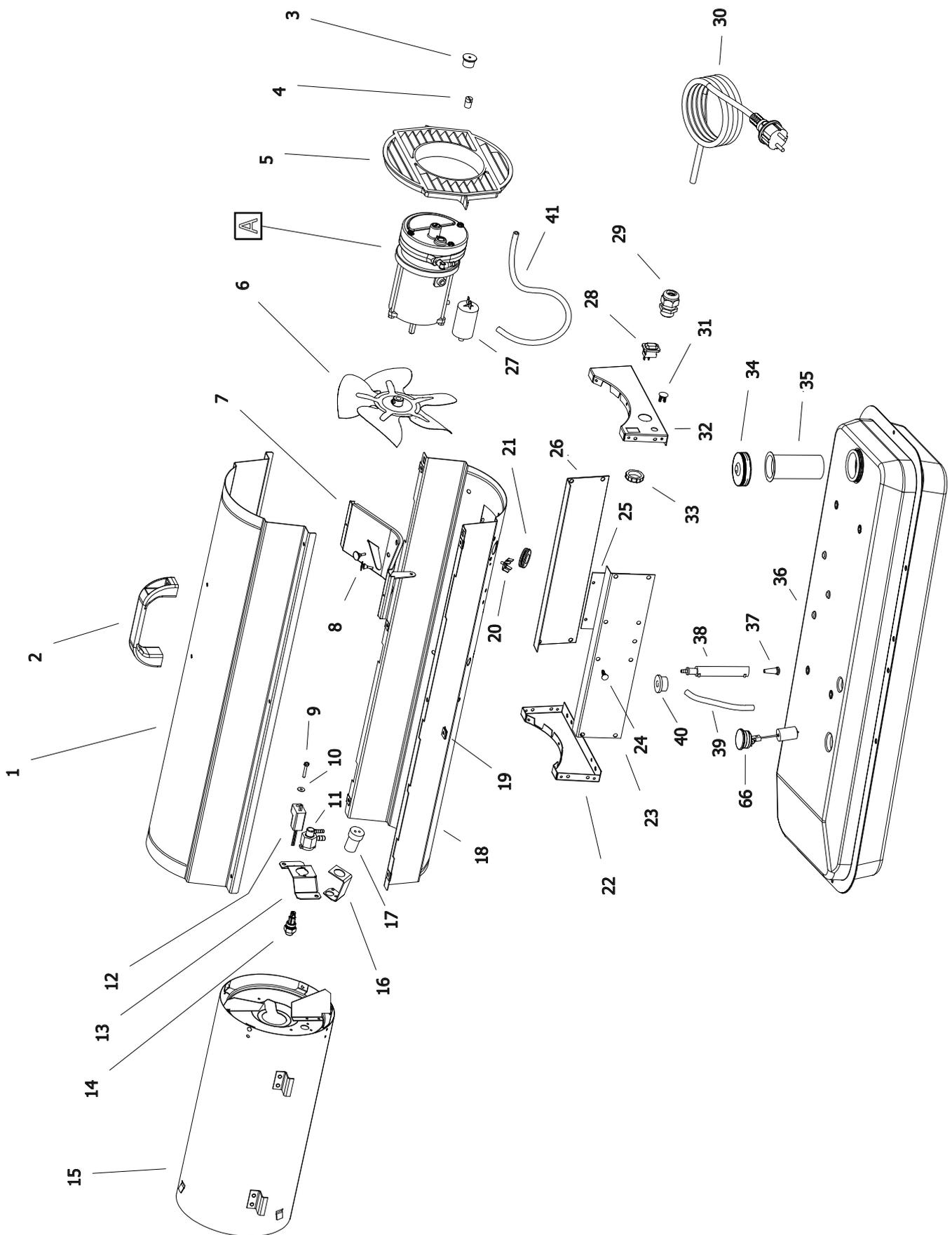
B 65 CEL MODEL 2012

UNIT 1

ILLUSTRATED PARTS BREAKDOWN

From Serial Number: 32104294

Edizione 2012
Rev. A



B 65 CEL MODEL 2012

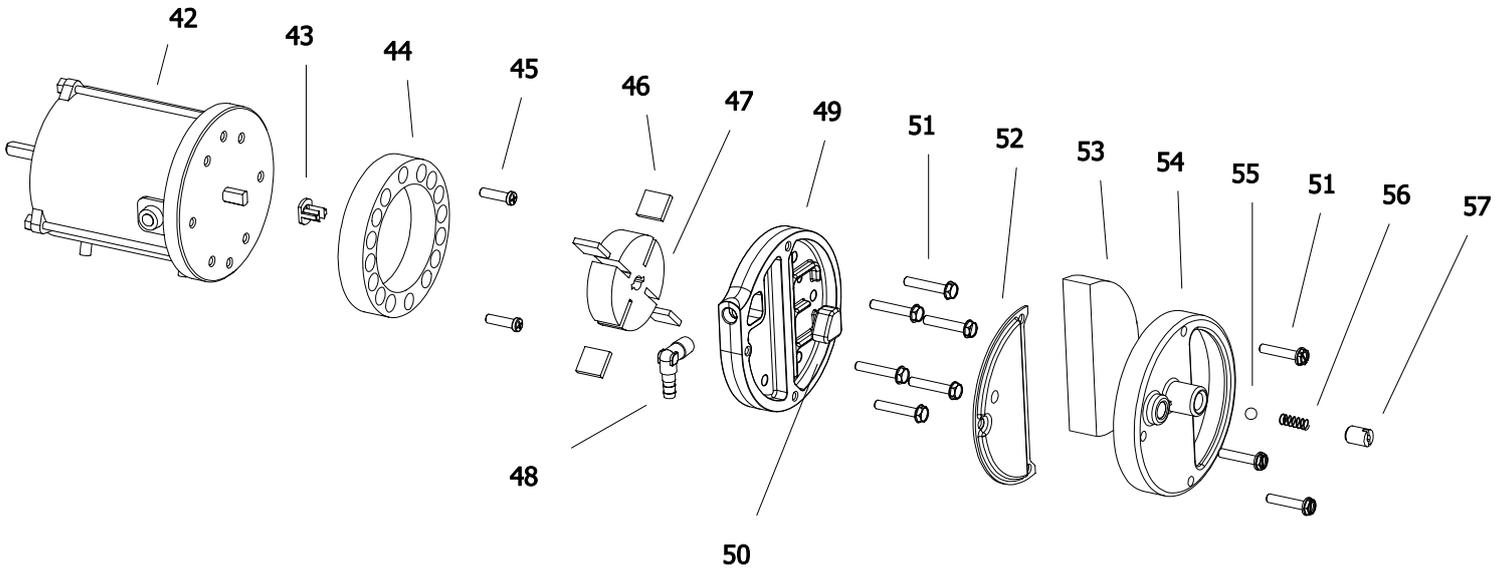
UNIT 2

ILLUSTRATED PARTS BREAKDOWN

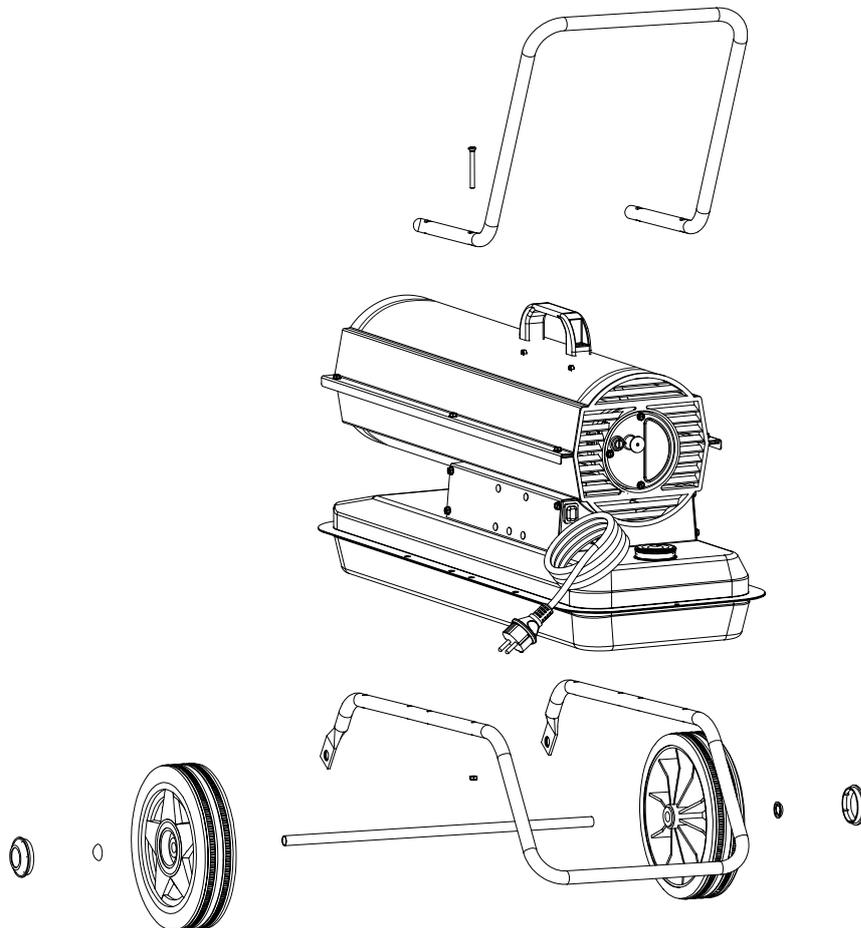
A

From Serial Number: 32104294

Rev A - May 2012



4103.925 WHEEL KIT



Pos.	Code NR	Description
1	4110.121	UPPER SHELL
2	4162.893	PLASTIC HANDLE
3	4100.666	COVER CAP
4	4102.125	PRESSURE GAUGE CAP
5	4103.685	FAN GUARD
6	4100.662	FAN
7	4110.187	MOTOR BRACKET
8	4150.553	BUMPER
9	4100.669	SCREW
10	4100.660	WASHER
11	4100.664	NOZZLE ADAPTER
12	4515.958	IGNITOR
13	4100.653	NOZZLE BRACKET
14	4100.647	NOZZLE
15	4110.126	COMBUSTION CHAMBER
16	4100.658	PHOTOCELL BRACKET
17	4103.590	PHOTOCELL ASSEMBLY
18	4110.122	LOWER SHELL
19	4104.170	CLIP NUT
20	4160.639	POP RIVET WITH TERMIN. 4 WAY
21	4160.646	CABLE PROTECTION
22	4110.113	FRONT FRAME BRACKET
23	4100.635	CONTROL BOX SIDE PANEL
24	4110.460	PC BOARD SUPPORT
25	4110.142	IGNITION CONTROL ASSEMBLY
26	4110.560	SIDE PANEL
27	4110.293	CAPACITOR
28	4100.667	ON/OFF SWITCH
29	4150.528	STRAIN RELIEF
30	4110.451	POWER CORD
31	4100.649	PLASTIC CAP
32	4110.514	REAR FRAME BRACKET
33	4100.656	LOCKNUT

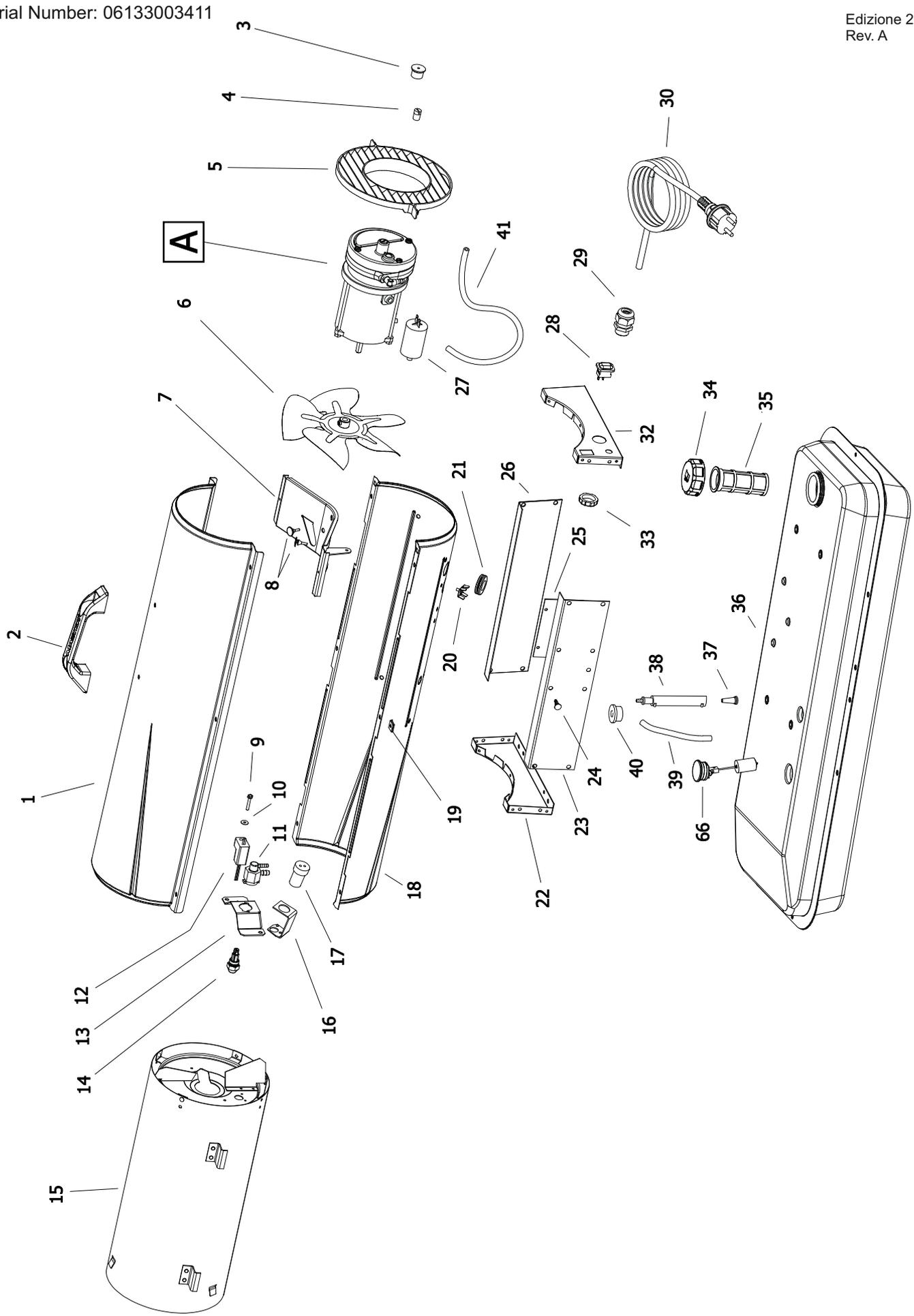
Pos.	Code NR	Description
34	4103.891	FUEL TANK CAP
35	4105.292	FUEL TANK FILTER
36	4110.384	FUEL TANK
37	4110.356	FUEL FILTER
38	4110.391	FUEL LINE
39	4035.816	FUEL LINE
40	4100.541	RUBBER BUSHING
41	4104.147	AIR LINE
42	4110.480	MOTOR 1/8 HP
43	4108.635	INSERT
44	4101.317	PUMP BODY
45	4108.588	PUMP BODY SCREW
46	4101.200	BLADE
47	4108.627	ROTOR
48	4100.661	BARB ELBOW
49	4109.724	PUMP END COVER
50	4109.716	LINT FILTER
51	4108.528	SCREW/LOCKWASHER 4,8x25
52	4109.708	OUTPUT FILTER
53	4109.690	INTAKE FILTER
54	4109.674	END COVER
55	4108.379	STEEL BALL
56	4102.141	PRESSURE RELIEF SPRING
57	4102.133	ADJUSTING SCREW
66	4260.006	FUEL GAUGE
...	4103.925	WHEEL KIT HD B35/70

B 65 CEL MODEL 2013

UNIT 1

ILLUSTRATED PARTS BREAKDOWN

Edizione 2013
Rev. A

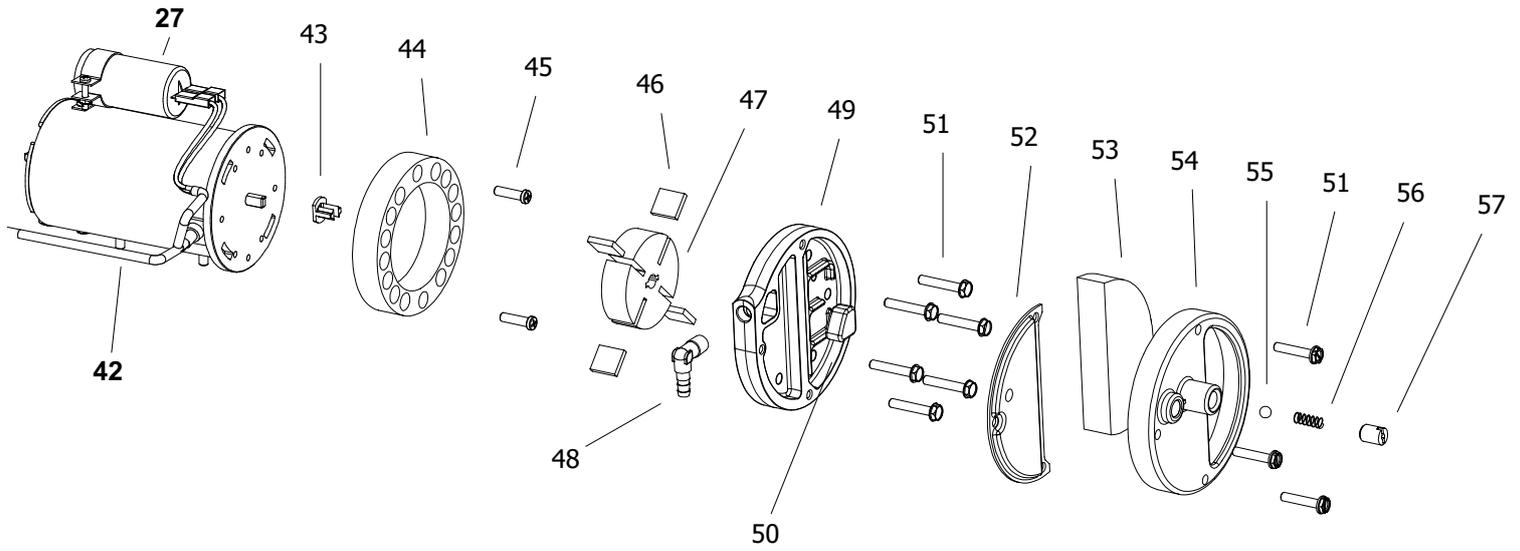


B 65 CEL MODEL 2013

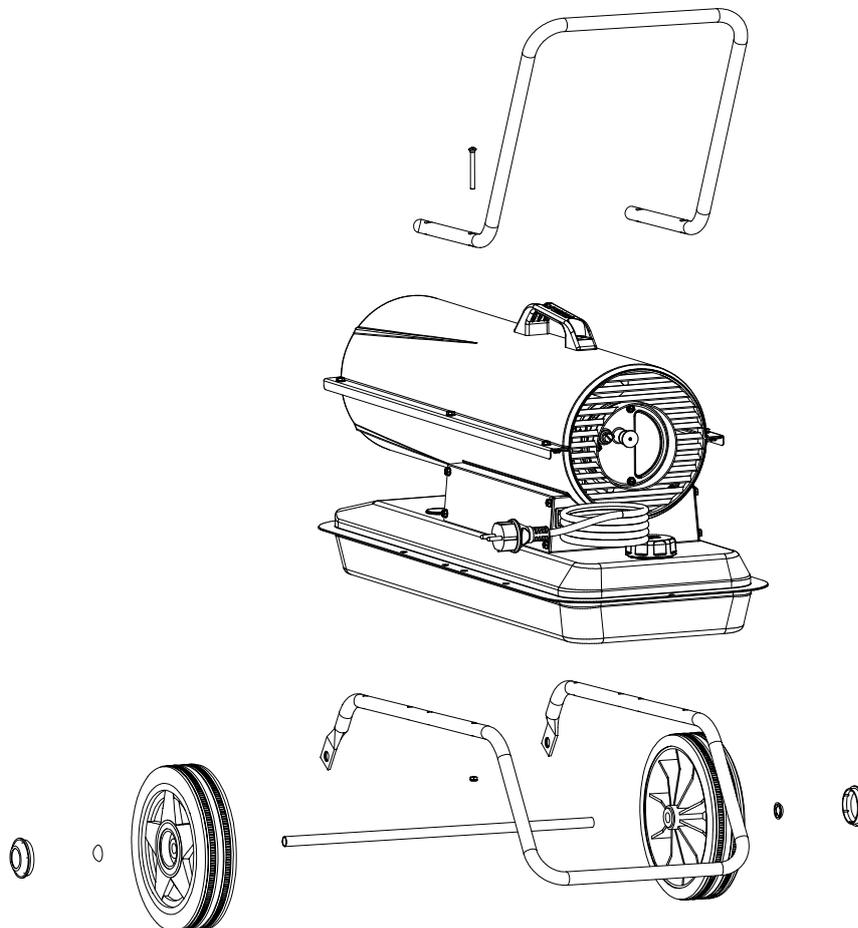
UNIT 2

ILLUSTRATED PARTS BREAKDOWN

A



4103.925 Wheel Kit



Pos.	Code NR	Description
1	4109.808	UPPER SHELL
2	4162.934	PLASTIC HANDLE
3	4100.666	COVER CAP
4	4102.125	PRESSURE GAUGE CAP
5	4109.812	FAN GUARD
6	4100.662	FAN
7	4110.187	MOTOR BRACKET
8	4150.553	BUMPER
9	4100.669	SCREW
10	4100.660	WASHER
11	4100.663	NOZZLE ADAPTER
12	4515.958	IGNITOR
13	4100.653	NOZZLE BRACKET
14	4100.647	NOZZLE
15	4110.126	COMBUSTION CHAMBER
16	4100.658	PHOTOCELL BRACKET
17	4103.590	PHOTOCELL ASSEMBLY
18	4109.809	LOWER SHELL
19	4104.170	CLIP NUT
20	4160.639	POP RIVET WITH TERMIN. 4 WAY
21	4160.646	CABLE PROTECTION
22	4110.113	FRONT FRAME BRACKET
23	4106.211	CONTROL BOX SIDE PANEL
24	4110.460	PC BOARD SUPPORT
25	4110.142	IGNITION CONTROL ASSEMBLY
26	4106.210	SIDE PANEL
27	4111.854	CAPACITOR 7,5UF
27	4110.293	CAPACITOR 5UF
28	4100.667	ON/OFF SWITCH
29	4150.528	STRAIN RELIEF
30	4110.451	POWER CORD
30-A	4111.811	POWER CORD NEW ZEALAND
30-B	4110.464	POWER CORD UK

Pos.	Code NR	Description
32	4110.114	REAR FRAME BRACKET
33	4100.656	LOCKNUT
34	4260.007	FUEL TANK CAP
35	4290.026	FUEL TANK FILTER
36	4110.895	FUEL TANK
37	4110.356	FUEL FILTER
38	4110.391	FUEL LINE
39	4035.816	FUEL LINE
40	4100.541	RUBBER BUSHING
41	4104.147	AIR LINE
42	4110.480	MOTOR 1/8 HP
43	4108.635	INSERT
44	4101.317	PUMP BODY
45	4108.588	PUMP BODY SCREW
46	4101.200	BLADE
47	4108.627	ROTOR
48	4100.661	BARB ELBOW
49	4109.724	PUMP END COVER
50	4109.716	LINT FILTER
51	4108.528	SCREW/LOCKWASHER 4,8x25
52	4109.708	OUTPUT FILTER
53	4109.690	INTAKE FILTER
54	4109.674	END COVER
55	4108.379	STEEL BALL
56	4102.141	PRESSURE RELIEF SPRING
57	4102.133	ADJUSTING SCREW
66	4260.006	FUEL GAUGE
...	4103.925	WHEEL KIT HD B35/70

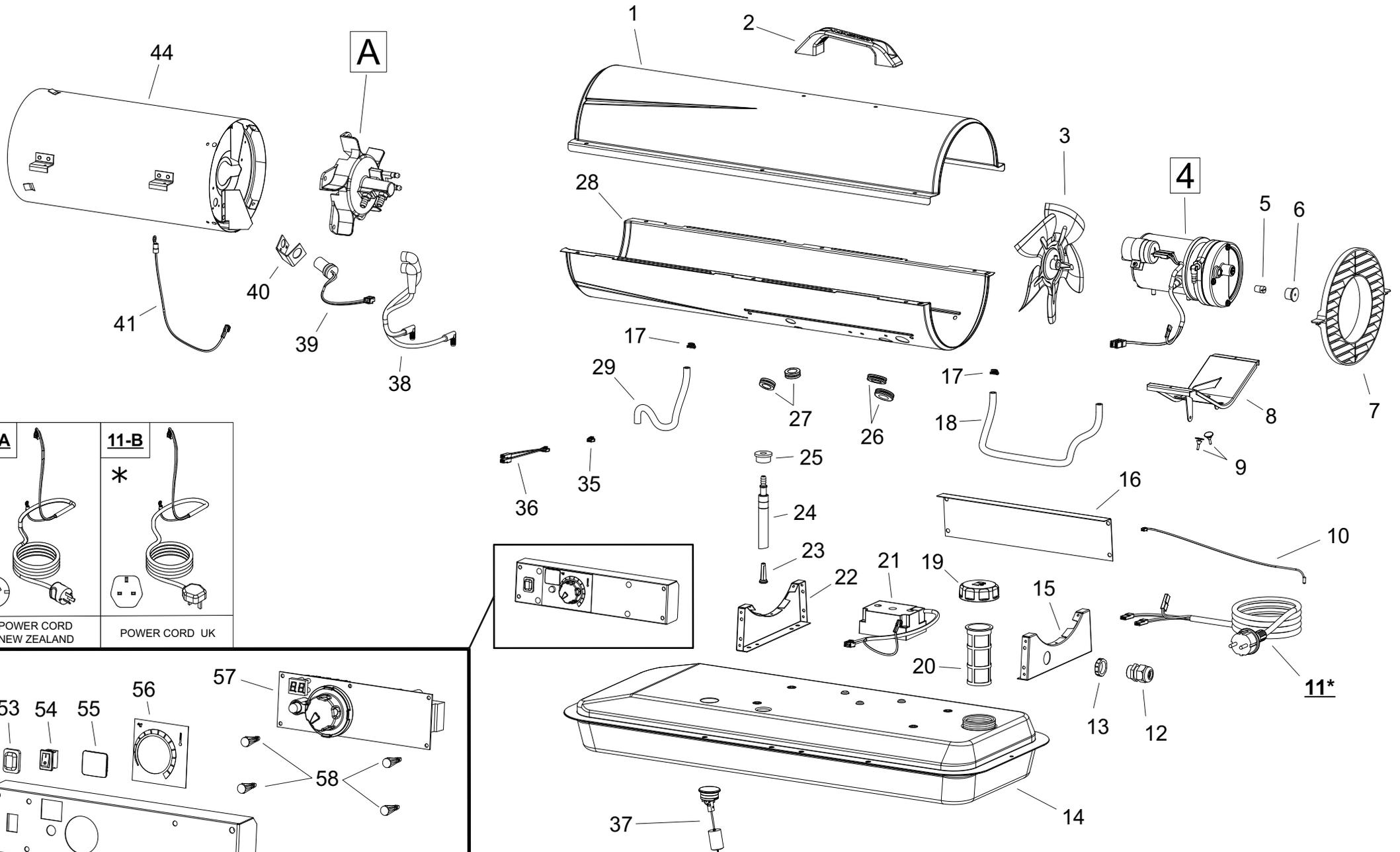
MODEL B 65CEL

UNIT 1

ILLUSTRATED PARTS BREAKDOWN

From Serial Number: 134009372

Rev.F - Nov. 2014



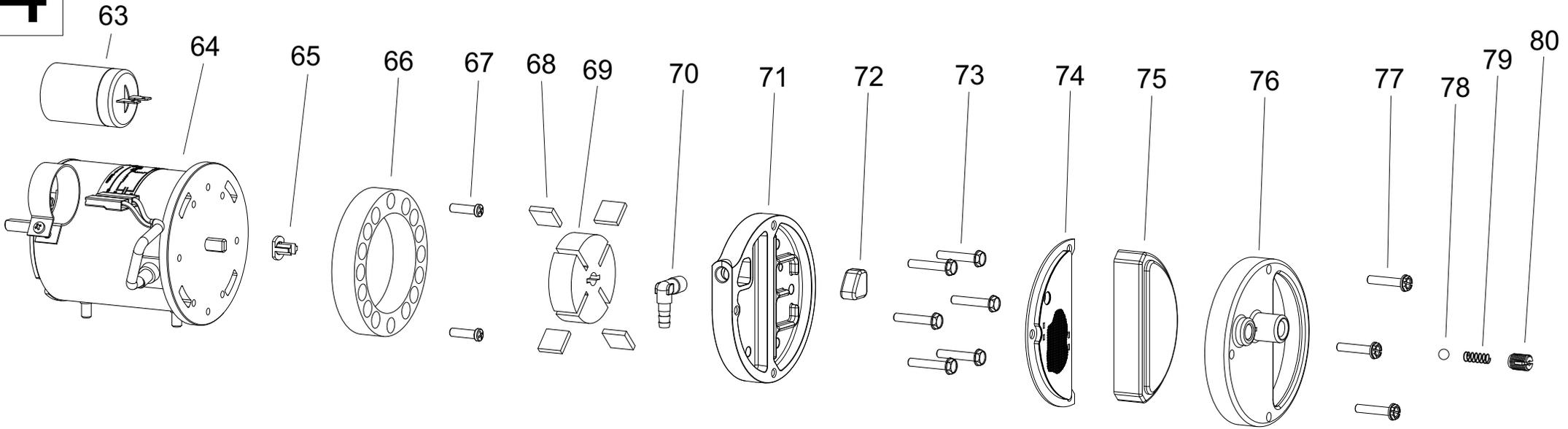
MODEL B 65CEL

UNIT 2

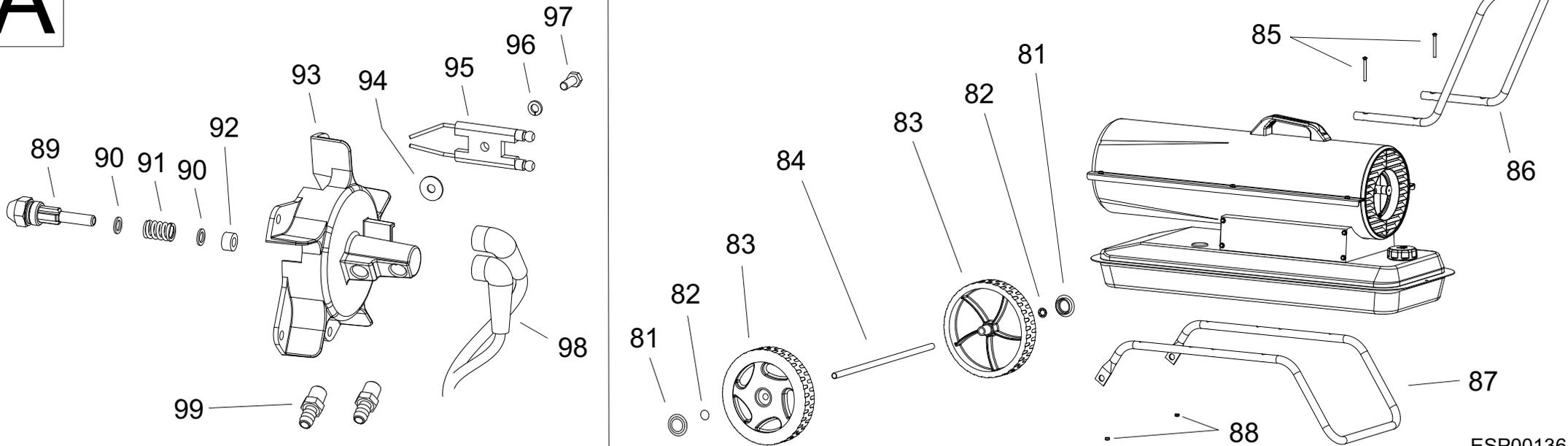
ILLUSTRATED PARTS BREAKDOWN

4

MOTOR-PUMP COMPLETE - COD. 4110.429



A



ESP00136

Pos.	Code NR	Description
1	4109.808	UPPER SHELL
2	4162.934	HANDLE
3	4100.662	FAN
4	4110.429	MOTOR-PUMP COMPLETE
5	4102.125	PRESSURE SCREW
6	4100.666	PRESSURE CAP
7	4109.812	INLET GRID
8	4110.187	MOTOR BRACKET
9	4150.553	BUMPER
10	4220.119	TEMPERATURE SONDE WIRE
11	4160.539	POWER CORD SCHUKO
11-A	4111.748	POWER CORD NEW ZEALAND
11-B	4160.540	POWER CORD UK
12	4150.528	STRAIN RELIEF
13	4100.656	NUT
14	4111.844	TANK
15	4101.024	REAR SUPPORT
16	4106.210	LATERAL PANEL
17	4110.159	BIFILAR CLAMP
18	4104.147	AIR PIPE
19	4100.052	TANK CAP
20	4290.026	TANK FILTER
21	4101.019	HIGH TENSION TRANSFORMER
22	4110.113	FRONT SUPPORT
23	4110.356	FUEL FILTER
24	4110.391	FUEL PIPE
25	4100.541	RUBBER BUSHING
26	4160.646	STRAIN RELIEF
27	4101.151	STRAIN RELIEF
28	4111.924	LOWER SHELL
29	4035.816	FUEL PIPE VALVE-NOZZLE
35	4220.120	BRIDGE WIRE
36	4220.167	SWITCH WIRE
37	4260.006	FUEL GAUGE
38	4111.831	HT CABLE
39	4220.115	PHOTOCELL
40	4100.658	PHOTOCELL BRACKET
41	4109.894	GROUND COMBUSTION CHAMBER WIRE
44	4104.090	COMBUSTION CHAMBER

Pos.	Code NR	Description
53	4104.336	SWITCH COVER
54	4106.179	SWITCH
55	4201.068	DISPLAY COVER
56	4106.032	CONTROL PANEL LABEL
57	4220.170	PC-BOARD
58	4101.021	PC-BOARD SPACER
62	4101.032	CONTROL PANEL
63	4111.854	CAPACITOR
64	4111.851	MOTOR
65	4108.635	MOTOR COUPLING
66	4101.317	PUMP BODY
67	4108.588	PUMP BODY SCREW
68	4101.200	ROTOR BLADE
69	4108.627	ROTOR
70	4100.661	90° CONNECTION
71	4109.724	OIL PUMP ALUMINIUM PLATE
72	4109.716	INTERNAL AIR FILTER
73	4108.536	SCREW
74	4109.708	OUTLET AIR FILTER
75	4109.690	INLET AIR FILTER
76	4109.674	CLOSING PLATE
77	4108.528	SCREW/LOCKWASHER 4,8x25
78	4108.379	STEEL BALL
79	4102.141	SPRING
80	4102.133	REGULATION SCREW
89	4103.486	NOZZLE
90	4100.525	WASHER
91	4100.533	SPRING
92	4101.622	SLEEVE
93	4110.399	BURNER HEAD
94	4110.394	FIBER WASHER
95	4110.337	BIFILAR ELECTRODE
96	4110.393	ELASTIC WASHER
97	4110.363	SCREW
98	4111.831	HT CABLE
99	4104.118	CONNECTION STRAIGHT