

R8500D-3 Industrial Generator

Product Information

The RATO R8500D-3 open frame generator is the perfect option for portable power.

All RATO products are covered by our 12 month/500 hour warranty.



SPECIFICATIONS

R8500D-3

Engine model	R500V
Engine type	Air cooled, 4 stroke, OHV, single cylinder
Starting system	Recoil / Electric start with battery
Displacement	499.6cc
Bore x stroke	94 x 72mm
Compression ratio	8.7 : 1
Rated frequency	50Hz
Rated voltage	240v
Rated power	8.0kw
Max. power	8.5kw
DC output	12v / 8.3A
Fuel tank capacity	25 litres
Full load continuous running time	5 hours
1/2 load continuous running time	7 hours
Noise (7m)	80db
Dimensions (L x W x H mm)	683 x 540 x 542
Net weight	102kg

Features

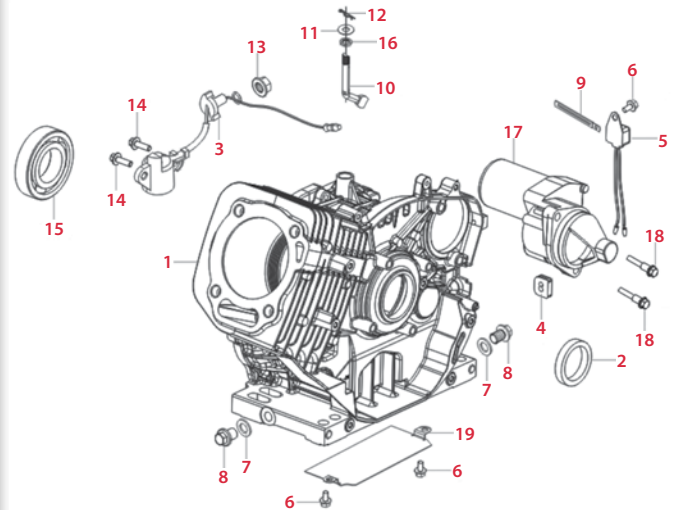
- Strong stable output, reliable long-time performance.
- Low fuel consumption, low carbon exhaustion.
- Convenient recoil and electric start.
- 3-in-1 digital meter.
- Wheels & handle for easy movement.
- Includes RCD switch and 32 amp IP66 plug.



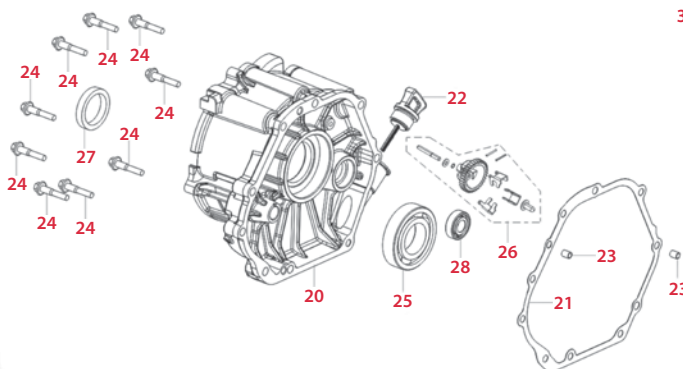
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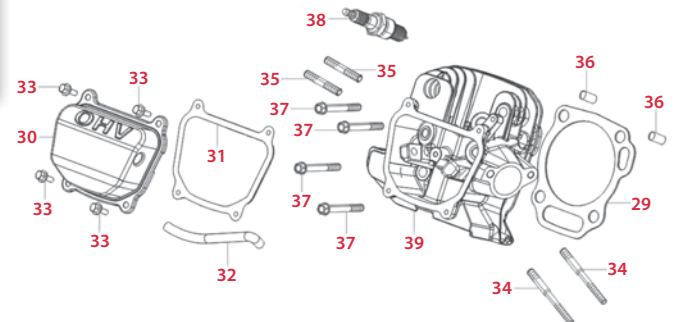
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase & Governor Gear Assembly (right)			
1	NS	11310-Z0D0110-0B00	Crankcase subassembly
2	NS	90682-Z0J0110-0000	Oil seal
3	NS	37060-Z080120-0000	Engine oil sensor
4	NS	28101-Z080110-0000	Rubber plug
5	NS	37050-Z010310-0000	Oil protector
6	NS	90001-0612-01	Bolt
7	NS	90412-Z080110-0000	Flat washer
8	NS	11007-Z080110-0000	Drain plug bolt
9	NS	90684-Z010310-0000	Clip
10	NS	16061-Z0D0110-0000	Governor arm
11	NS	90412-Z080210-0000	Flat washer
12	NS	90501-Z010110-0000	Pin
13	NS	90305-Z010210-01	Nut
14	NS	90001-0616-01	Bolt
15	NS	90548-0202-CL	Deep groove ball bearing
16	NS	90682-Z100210-0000	Oil seal
17	NS	09100-Z170110-00001	Starting motor
18	NS	90001-0835-01	Bolt
19	NS	19306-Z0D0110-0000	Crankcase air deflector



Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly (below left)			
20	NS	11310-Z0D0110-0B00	Crankcase cover
21	NS	90682-Z0J0110-0000	Crankcase gasket
22	NS	37060-Z080120-0000	Oil dipstick subassembly
23	NS	28101-Z080110-0000	Pin
24	NS	37050-Z010310-0000	Bolt
25	NS	90001-0612-01	Deep groove ball bearing
26	NS	90412-Z080110-0000	Governor gear assembly
27	NS	11007-Z080110-0000	Oil seal
28	NS	90684-Z010310-0000	Deep groove ball bearing



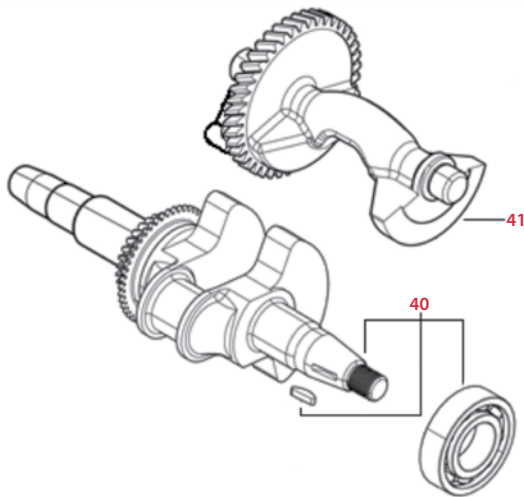
Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below right)			
29	NS	12131-Z0D0110-0000	Cylinder head gasket
30	NS	12410-Z0J0210-0000	Cylinder head cover subassembly
31	NS	12004-Z0J0510-0000	Cylinder head cover gasket
32	NS	17004-Z0D0110-0000	Breather tube
33	NS	90001-0612-01	Bolt
34	NS	90204-Z100410-0000	Bolt
35	NS	90203-Z010110-0000	Bolt
36	NS	90502-1220-00	Pin
37	NS	12003-Z0N0110-0000	Cylinder head bolt
38	NS	30010-Z010110-0000	Spark plug
39	NS	12140-Z0D0110-0B09	Cylinder head subassembly



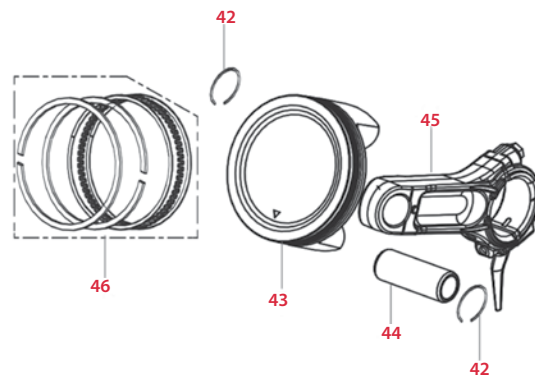
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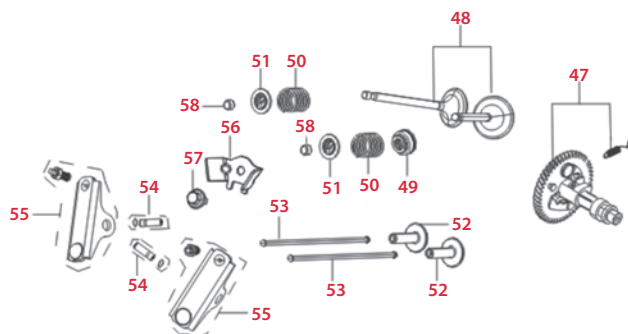
Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below left)			
40	NS	13300-Z0D0110-CLTM	Crankshaft assembly
41	NS	13401-Z0D0110-0000	Balancing shaft



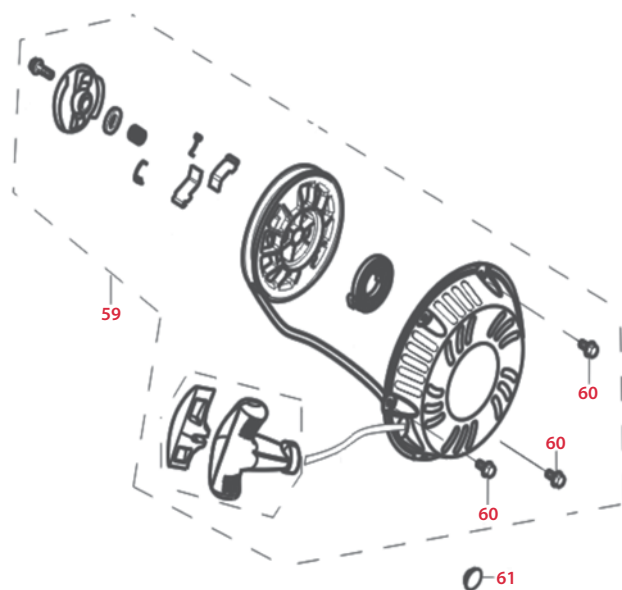
Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (below right)			
42	NS	13122-Z100110-0000	Piston pin clip
43	NS	13111-Z0D0110-0009	Piston
44	NS	13121-Z0D0110-0000	Piston pin
45	NS	13010-Z0D0110-0000	Connecting rod
46	NS	13200-Z0D0110-0009	Piston ring assembly



Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (below left)			
47	NS	14200-Z0D0110-0009	Camshaft assembly
48	NS	12110-Z0D0110-0009	Valve set
49	NS	12101-Z020110-0000	Seal guide
50	NS	12103-Z990110-0000	Valve spring
51	NS	12107-Z010110-0000	Exhaust valve retainer
52	NS	14081-Z080110-0000	Valve tappet
53	NS	14070-Z0D0110-0000	Valve lifter subassembly
54	NS	14318-Z990110-0000	Valve rocker shaft
55	NS	14310-Z0D0110-0000	Valve rocker
56	NS	12419-Z950210-0000	
57	NS	90001-0612-01	Bolt
58	NS	12104-Z010110-0000	Valve rotator



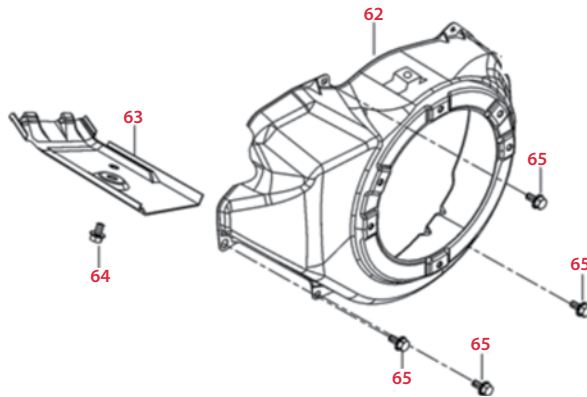
Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (below right)			
59	NS	28200-Z101210-H700	Starter Recoil assembly
60	NS	90001-0610-01	Bolt
61	NS	28261-Z980110-0000	



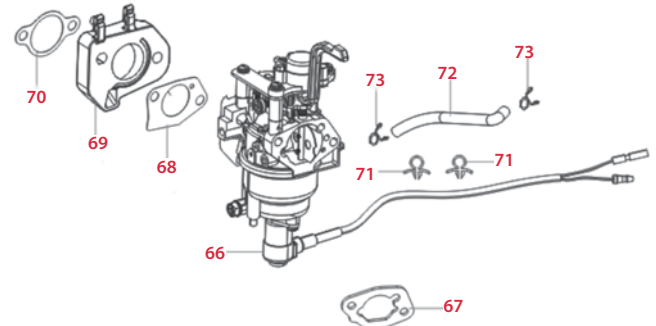
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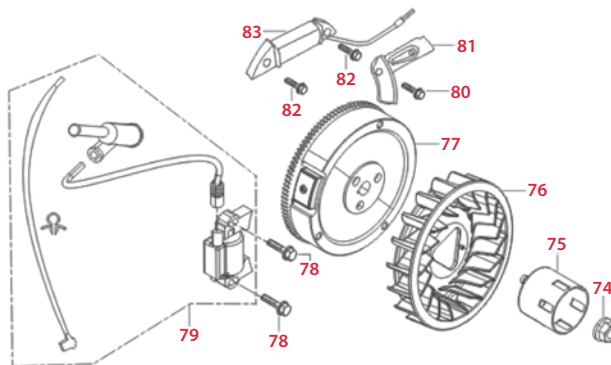
Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (below left)			
62	NS	28110-Z710210-Y100	Shroud
63	NS	19304-Z100210-0000	Cylinder body shroud
64	NS	90001-0612-01	Bolt
65	NS	90001-0612-01	Bolt



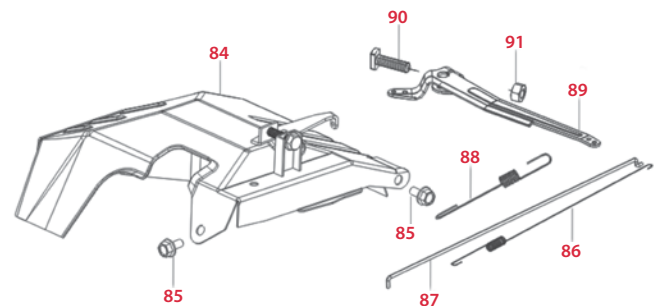
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below right)			
66	NS	16100-Z0D0110-0009	Carburettor assembly
67	NS	17001-Z0D0110-0000	Air cleaner gasket
68	NS	16001-Z100110-0000	Carburettor gasket
69	NS	16003-Z0D0110-0000	Carburettor insulator plate
70	NS	17002-Z0D0110-0000	Inlet gasket
71	NS	90684-Z030210-0000	Clip
72	NS	90686-Z080610-0000	Fuel tube
73	NS	90740-Z010210-0000	Collar



Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (below)			
74	NS	13501-Z080110-0000	Flywheel nut
75	NS	28002-Z0D0110-0000	Starter pulley
76	NS	19352-Z100210-0000	Impeller
77	NS	13510-Z0D0110-0000	Flywheel subassembly
78	NS	90001-0628-01	Bolt
79	NS	30400-Z190210-0000	Ignition coil
80	NS	90001-0610-01	Bolt
81	NS	30001-Z170110-0000	Charge coil clamp
82	NS	90001-0628-01	Bolt
83	NS	30140-Z160230-0000	Charge coil subassembly



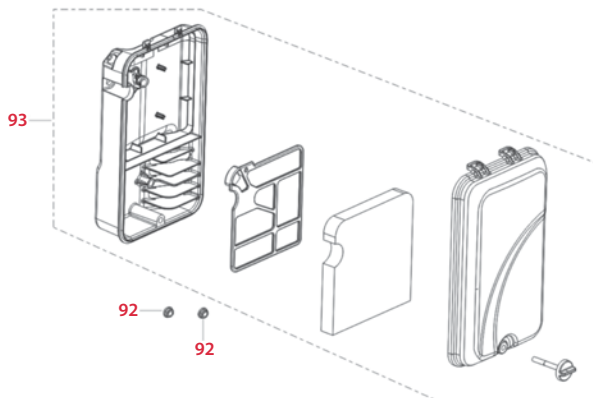
Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (below right)			
84	NS	16520-Z0D0110-0000	Throttle control assembly
85	NS	90001-0612-01	Bolt
86	NS	16012-Z080110-0000	Throttle valve returning spring
87	NS	16062-Z100110-0000	Governor rod
88	NS	16063-Z0D0110-0000	Governor spring
89	NS	16070-Z100120-0000	Governor support subassembly
90	NS	16072-Z010110-0000	Governor support bolt
91	NS	90305-0600-31	Nut



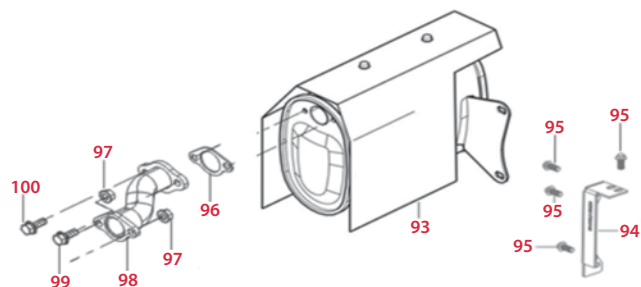
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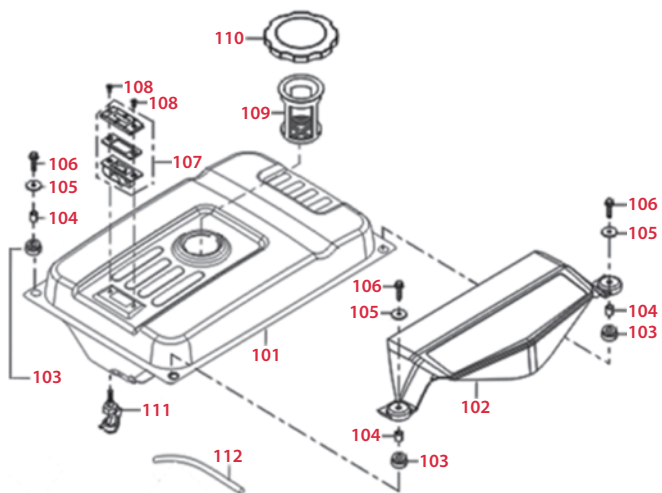
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below left)			
92	NS	90305-0600-31	Nut
93	NS	17100-Z0D0110-0009	Air cleaner



Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below right)			
94	NS	18100-YE70110-0000	Muffler assembly
95	NS	18030-Y730110-0000	Muffler bracket
96	NS	90001-0816-03	Bolt
97	NS	18101-Z0D0110-0000	Muffler gasket
98	NS	90303-0800-31	Nut
99	NS	18150-Z0D0110-0000	Exhaust pipe
100	NS	90001-0830-03	Bolt



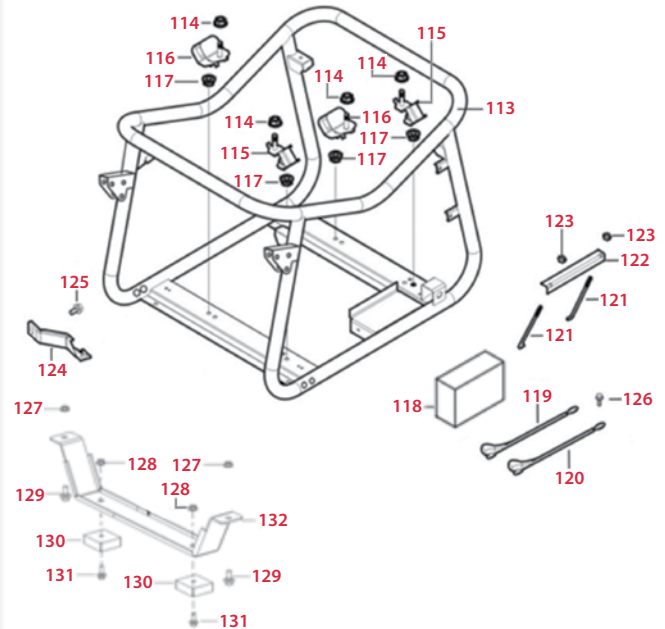
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (right)			
101	NS	16620-Y470220-Y100	Fuel tank
102	NS	51025-Y470110-Q200	Decorative frame
103	NS	16601-Y020120-0000	Fuel tank rubber sleeve
104	NS	90683-Y020110-0000	Bush
105	NS	90408-Y020110-0000	Flat washer
106	NS	90007-0625-A3	Bolt
107	NS	37200-Y020210-H300	Oil level assembly
108	NS	90104-0512-53	Bolt
109	NS	16652-Y020120-0000	Fuel strainer
110	NS	16730-Y020610-H700	Fuel tank cover
111	NS	16750-Y020210-0000	Fuel cock assembly
112	NS	30431-Y030110-0000	Rubber jacket



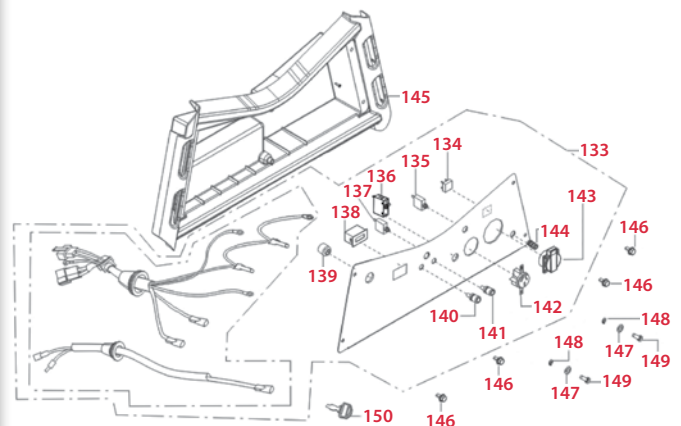
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Item	JAK Max Part No.	RATO Part No.	Description
Engine Frame (right)			
113	NS	51100-YE70110-0000	Engine frame assembly
114	NS	90306-1000-31	Nut
115	NS	51012HY030120-0000	Engine frame rear cushion
116	NS	51012HY030120-0000	Engine frame rear cushion
117	NS	90305-0800-31	Nut
118	NS	31110-Y230110-0000	Battery
119	NS	31112HY130310-0000	Anode wire
120	NS	31114HY130310-0000	Cathode wire
121	NS	31151-Y030120-0000	Battery bolt
122	NS	31142-Y030120-H700	Battery clamp
123	NS	90305-0600-33	Nut
124	NS	17003-YC20110-0000	Air cleaner support
125	NS	90001-0612-01	Bolt
126	NS	90007-0612-A1	Bolt
127	NS	90305-0800-33	Nut
128	NS	90305-0600-33	Nut
129	NS	90001-0816-03	Bolt
130	NS	51014HY940110-0000	Engine frame shock absorption seat
131	NS	90001-0620-03	Bolt
132	NS	51016-Y9X0110-H700	Engine frame shock absorption support



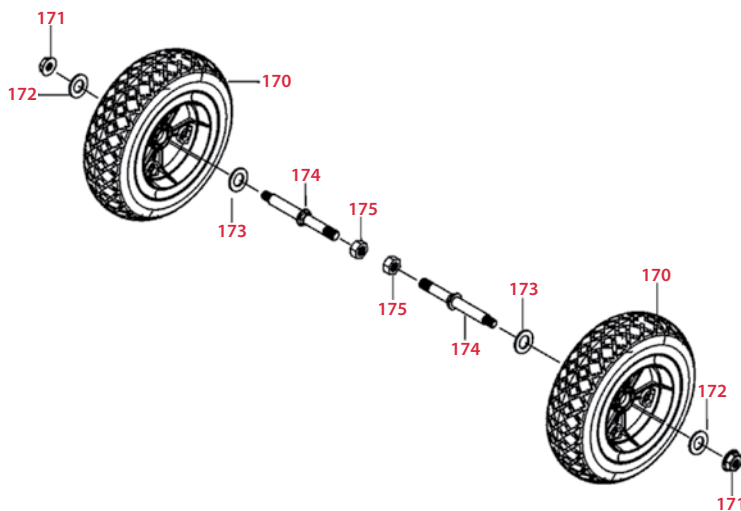
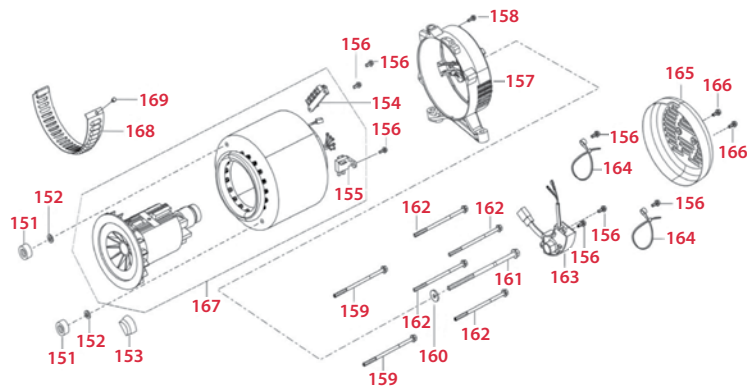
Item	JAK Max Part No.	RATO Part No.	Description
Control Panel Subassembly (right)			
133	NS	35610-YE70110-H300	Control panel subassembly
134	NS	35621-Y020110-0000	Rectification bridge
135	NS	31234-YB30110-0000	Overcurrent protector
136	NS	35645-Y5W0110-0000	Single pole circuit breaker
137	NS	31234-Y9H0110-0000	Overcurrent protector
138	NS	35632-Y130110-0000	Timer
139	NS	35160-Y030710-0000	Switch subassembly
140	NS	35633-Y020110-0000	Positive electrode terminal
141	NS	35634-Y020110-0000	Negative electrode terminal
142	NS	35614-Y020510-0000	Power supply socket subassembly
143	NS	35614-YE70110-0000	Power supply socket subassembly
144	NS	35629-Y090110-0000	Grounding terminal subassembly
145	NS	35601-Y470120-Y100	Panel rear case
146	NS	90007-0625-A3	Bolt
147	NS	90408-0400-E1	Flat washer
148	NS	90403-0400-01	Flat washer
149	NS	90106-0410-51	Bolt
150	NS	35552-Y030110-0000	Stop engine switch key



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Stator / Rotor Assembly (right)			
151	NS	31317-Y030110-0000	Stator nut
152	NS	90403-0500-03	Flat washer
153	NS	30023-YC20110-0000	Motor right cover stopper
154	NS	31303HY090110-0000	Terminal block
155	NS	31320-Y030120-0000	Carbon brush subassembly
156	NS	90001-0516-01	Bolt
157	NS	30021-Y030310-0000	Alternator bracket
158	NS	90001-0512-01	Bolt
159	NS	31316-Y950110-0000	Stator bolt
160	NS	90408-Y030110-0000	Flat washer
161	NS	30049-Y950110-0000	Rotor bolt
162	NS	30048-Y950110-0000	Stator bolt
163	NS	30060-YBC0110-0000	Voltage regulator
164	NS	90727-Y020110-0000	Band
165	NS	30022-Y030110-Y100	Alternator end cap
166	NS	90001-0512-03	Bolt
167	NS	31300-YCK0210-0000	Alternator assembly
168	NS	30024-Y030110-0000	Motor shroud
169	NS	90001-0510-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Front Wheel Assembly (left)			
170	NS	44110-Y020220-0000	Front wheel
171	NS	90303-1200-33	Nut
172	NS	90408-Y990310-0000	Flat washer
173	NS	90408-Y110210-0000	Flat washer
174	NS	44020-Y0K0110-0600	Front wheel shaft
175	NS	90303-1200-33	Nut

Item	JAK Max Part No.	RATO Part No.	Description
Handle Assembly (right)			
176	NS	90001-0850-03	Bolt
177	NS	90332-Y110110-0000	Nut
178	NS	90793-Y910110-0000	Sling
179	NS	54101-Y2C0110-Q200	Handle rubber sleeve
180	NS	54111-YE70110-H700	Handle tube
181	NS	97003-YA50110-0000	Lock pin assembly

