



**GENUINE RATO
PUMPS & GENERATORS**

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R2000iS Inverter Generator

Product Information



The RATC R2000iS inverter generator is ideal for generating high quality pure sine wave electricity to power your laptop or other small electrical devices.

With a rated output of 2,000 watts, this quiet and lightweight generator can run for up to 6 hours on continuous 1/2 load operation.

All RATC inverter generators, no matter the output, can be joined with the RATC parallel cable to increase your power.

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

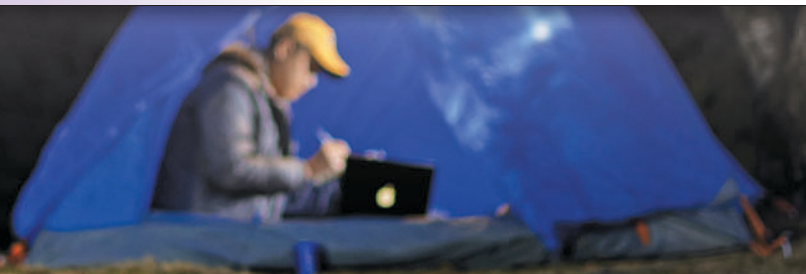
Features

- Easy access maintenance door.
- With parallel-in function, two inverter generators, with the same specifications or not, can be in parallel with each other.
- Free shifting between 50Hz and 60Hz.
- Lightweight and low noise level.
- USB port.
- 80cc - 3.5hp.



SPECIFICATIONS

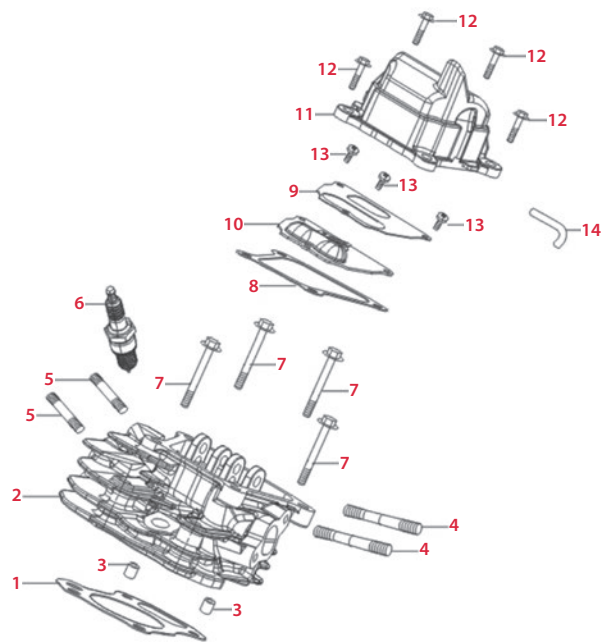
R2000iS	
Engine model	R80-i
Engine type	Air cooled, 4 stroke, OHV, single cylinder
Starting system	Recoil start
Displacement	79.7ml
Bore x stroke	48.6 x 43mm
Compression ratio	8.7 : 1
Rated frequency	50Hz
Rated voltage	230v
Rated power	1.8kw
Max. power	2.0kw
DC output	12v / 8.3A
Fuel tank capacity	4 litres
Full load continuous running time	4 hours
1/2 load continuous running time	6 hours
Noise (7m)	65dB
Dimensions (L x W x H mm)	498 x 290 x 459
Net weight	22kg



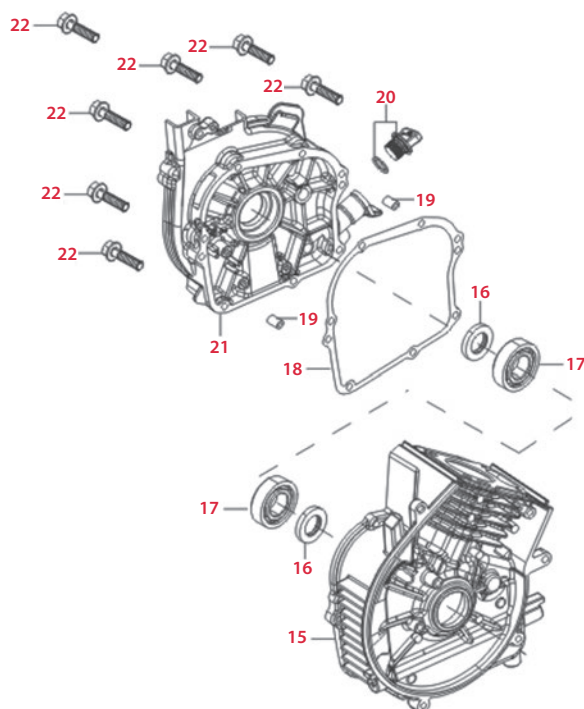
R2000iS Inverter Generator

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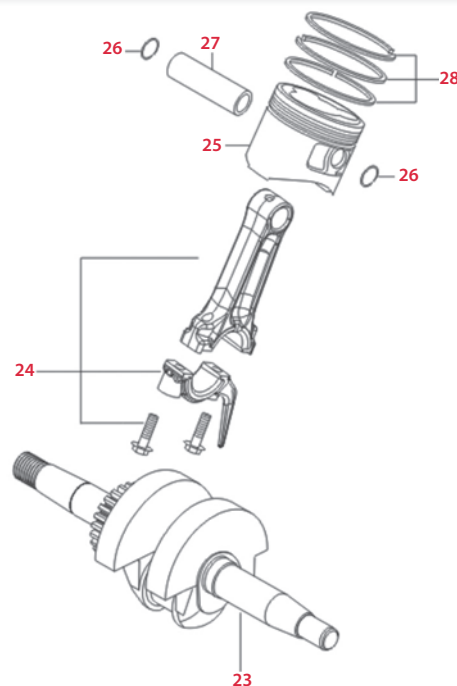
Item	JAK Max Part No.	RATC Part No.	Description
Cylinder Head Subassembly & Spark Plug (right)			
1	JMRT1226	12131-Z800110-0000	Cylinder head gasket
2	NS	12140-Z800110-0000	Cylinder head subassembly
3	NS	90502-0812-00	Pin
4	NS	90204-Z800110-0000	Stud
5	NS	90204-Z800210-0000	Stud
6	Z9Y	30010-Z350210-00A0	Spark plug
7	NS	12003-Z800110-0000	Cylinder head bolt
8	JMRT1228	12004-Z800120-0000	Cylinder head cover gasket
9	JMRT1229	11320-Z800110-0000	Breath piece
10	JMRT1230	11332-Z800110-0000	Breath groove gasket
11	NS	12410-Z800110-0000	Cylinder head cover subassembly
12	NS	90007-0616-A1	Bolt
13	NS	90103-0308-51	Screw
14	NS	17004-Z800110-0000	Breather tube



Item	JAK Max Part No.	RATC Part No.	Description
Crankcase & Crankcase Cover Subassembly (below left)			
15	NS	11310-Z800110-0000	Crankcase subassembly
16	JMRT1231	90682-Z800110-0000	Oil seal
17	JMRT1232	90547-0204-CL	Bearing
18	NS	11001-Z800110-0000	Crankcase gasket
19	NS	90502-0812-00	Pin
20	JMRT1233	15010-Z800130-Q500	Engine oil plug subassembly
21	NS	11411-Z800110-0000	Crankcase cover
22	NS	90007-0620-A1	Bolt



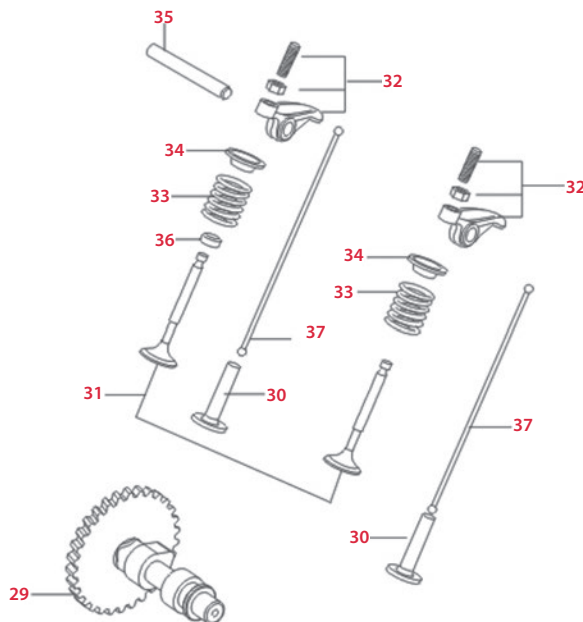
Item	JAK Max Part No.	RATC Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (below right)			
23	JMRT1234	13300-Z800110-0000	Crankshaft assembly
24	JMRT1235	13010-Z800110-0000	Connecting rod
25	JMRT1236	13111-Z800110-0000	Piston
26	JMRT1237	13122-Z800120-0000	Piston pin clip
27	JMRT1238	13121-Z800120-0000	Piston pin
28	JMRT1239	13200-Z800110-0000	Piston ring assembly



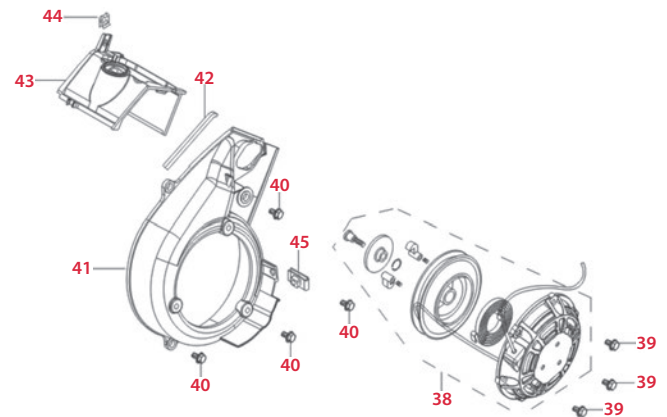
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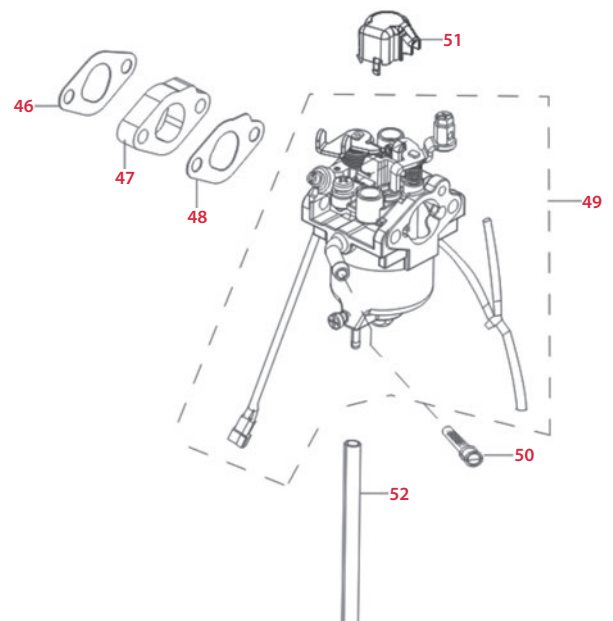
Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (below left)			
29	JMRT1240	14200-Z800110-0000	Camshaft assembly
30	JMRT1241	14081-Z800110-0000	Valve tappet
31	JMRT1242	12110-Z800110-0000	Valve set
32	JMRT1243	14310-Z800110-0000	Valve rocker subassembly
33	JMRT1244	12103-Z800110-0000	Valve spring
34	JMRT1245	12112-Z800110-0000	Valve spring seat
35	JMRT1246	14330-Z800110-0000	Valve rocker shaft
36	JMRT1247	12101-Z800110-0000	Seal guide
37	JMRT1248	14070-Z800110-0000	Valve lifter



Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (below right)			
38	JMRT1249	28200-Z800120-Q200	Starter Recoil assembly
39	NS	90001-0612-01	Bolt
40	NS	90007-0616-A1	Bolt
41	NS	28110-Z800110-Q200	Shroud
42	NS	19081-Z800110-0000	Shroud seal strip
43	NS	12014-Z800110-0000	Cylinder head air deflector
44	NS	90804-Z800210-0000	Limit card
45	NS	17199-Y2V0110-0000	Nut



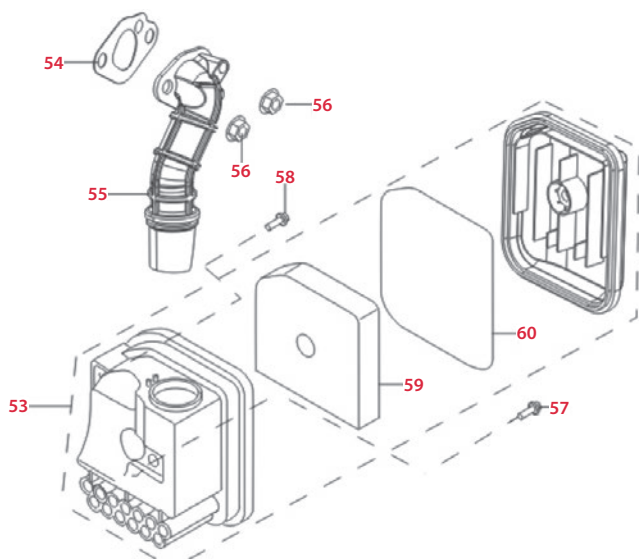
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (right)			
46	JMRT1250	16001-Z800110-0000	Carburettor gasket
47	JMRT1251	16003-Z800110-0000	Carburettor insulator plate
48	JMRT1252	16002-Z800110-0000	Carburettor insulator gasket
49	JMRT1253	16100-Z800110-0001	Carburettor assembly
50	JMRT1254	16652-Z800110-0000	Fuel filter
51	JMRT1255	14411-Y2V0110-0000	Cap
52	JMRT1256	90686-Y2V0210-0000	Fuel tube



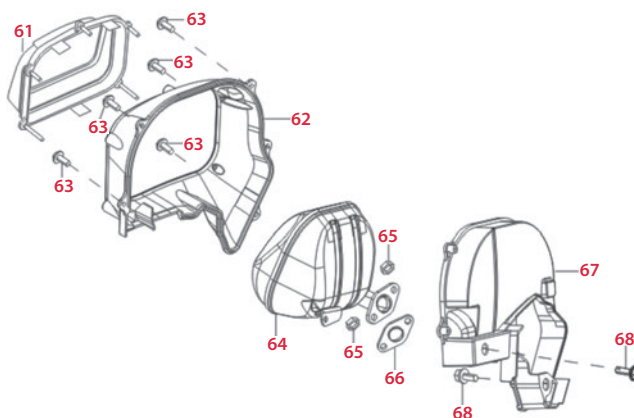
R2000iS Inverter Generator

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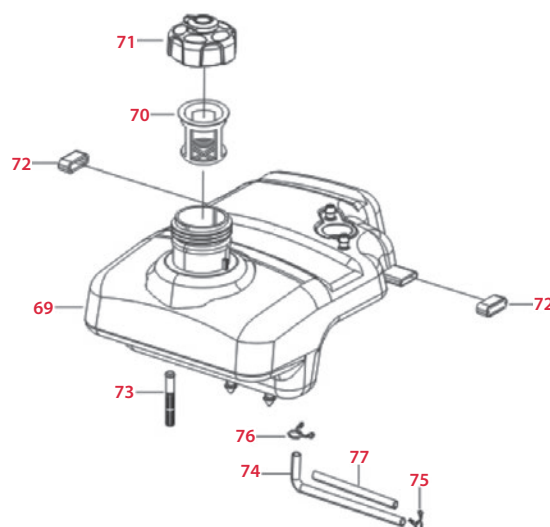
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below left)			
53	JMRT1257	17100-Z800110-0000	Complete air filter
54	JMRT1258	17001-Z800110-0000	Air cleaner gasket
55	NS	17110-Z800110-0000	Air cleaner intake duct
56	NS	90305-0600-31	Nut
57	NS	90007-0520-A1	Bolt
58	NS	90007-0620-A1	Bolt
59	JMRT1259	17151-Z800110-0000	Air cleaner element
60	JMRT1260	90681-Z800110-0000	Ring seal



Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below right)			
61	NS	18002-Z800110-0000	Muffler side cover
62	NS	18109-Z800110-0000	Muffler shroud
63	NS	90107-0516-01	Cross groove pan screw
64	JMRT1261	18100-Z800210-0001	Muffler assembly
65	NS	90303-0600-31	Nut
66	JMRT1262	18001-Z800110-0000	Exhaust outlet gasket
67	NS	18013HZ800110-0000	Muffler shield
68	NS	90007-0616-A1	Bolt



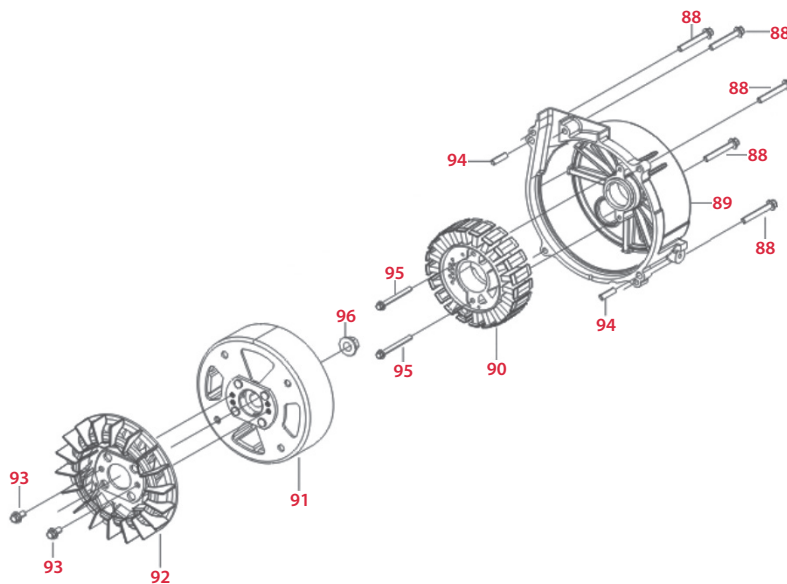
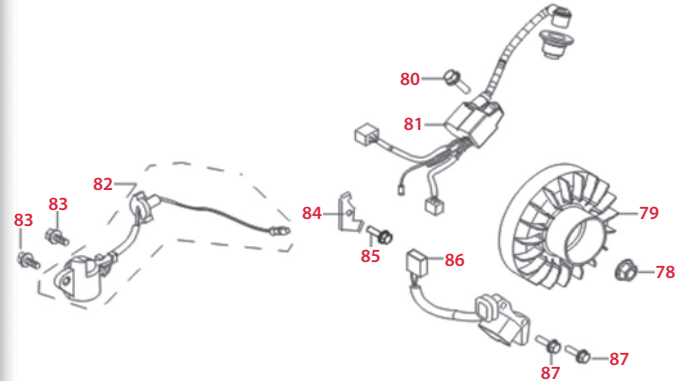
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (right)			
69	JMRT1263	16620-Y2V0140-Q201	Fuel tank
70	JMRT1264	16652-Y2V0110-0000	Fuel filter
71	JMRT1265	16730-Y2V0610-Q200	Fuel tank cover
72	NS	90683-Y2V0110-0000	Bush
73	NS	16514-Y2V0110-0000	Strainer element
74	NS	90686-Y2V0410-0000	Fuel tube
75	NS	90740-Z010210-0000	Collar
76	NS	90740-Z450110-0000	Collar
77	NS	30431-Y020110-0000	Rubber jacket



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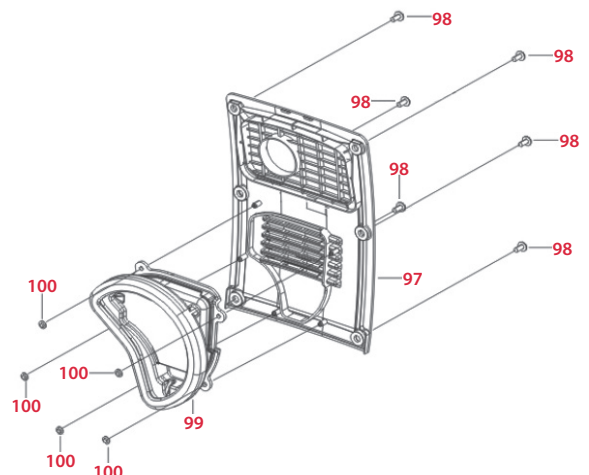
R2000iS Inverter Generator

Item	JAK Max Part No.	RATC Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (right)			
78	NS	13501-Z510110-0000	Flywheel nut
79	NS	13510-Z800110-0000	Flywheel subassembly
80	NS	90007-0620-A1	Bolt
81	NS	30700-Z800310-0000	Ignitor
82	JMRT1266	37060-Z800110-0000	Engine oil sensor
83	NS	90007-0612-A1	Bolt
84	NS	54066-Z800110-0000	Clamp
85	NS	90007-0612-A1	Bolt
86	JMRT1267	30400-Z800210-0000	Ignition coil
87	NS	90007-0620-A1	Bolt



Item	JAK Max Part No.	RATC Part No.	Description
Stator/Rotor (left)			
88	NS	90001-0630-01	Bolt
89	NS	30024-Y2V0130-0000	Motor shroud
90	JMRT1268	30120-Y2V0510-0000	Stator complete
91	JMRT1269	30110-Y2V0130-0000	Rotor complete
92	JMRT1270	19352-Y2V0110-Q200	Impeller
93	NS	90001-0610-01	Bolt
94	NS	90502-0814-00	Pin
95	NS	90001-0535-01	Bolt
96	NS	90306-1200-31	Nut

Item	JAK Max Part No.	RATC Part No.	Description
Muffler Side Cover (right)			
97	NS	18002-Y2V0210-Q200	Muffler side cover
98	NS	90255-0512-53	Pan head screw & washer assembly
99	NS	53202-Y2V0110-0000	Joint rubber cushion
100	NS	37073-Y2V0110-0000	Spring clip

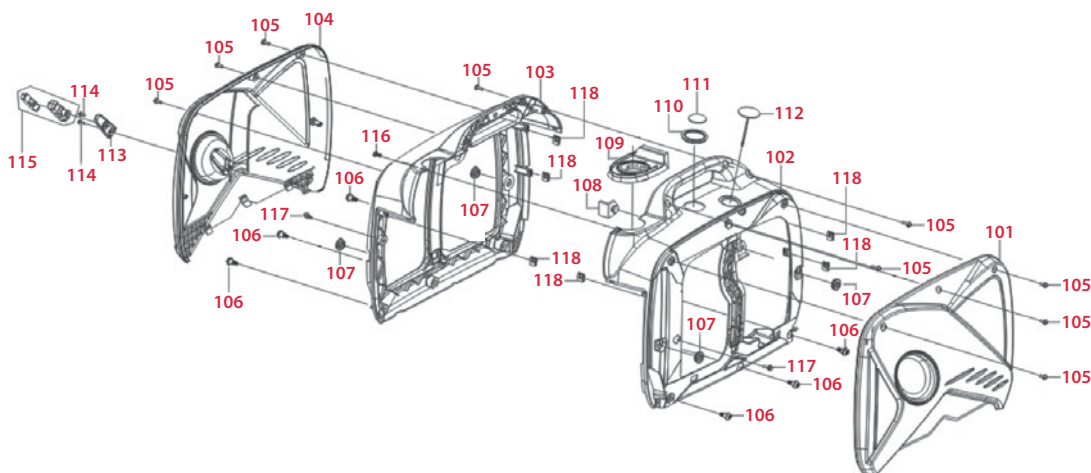


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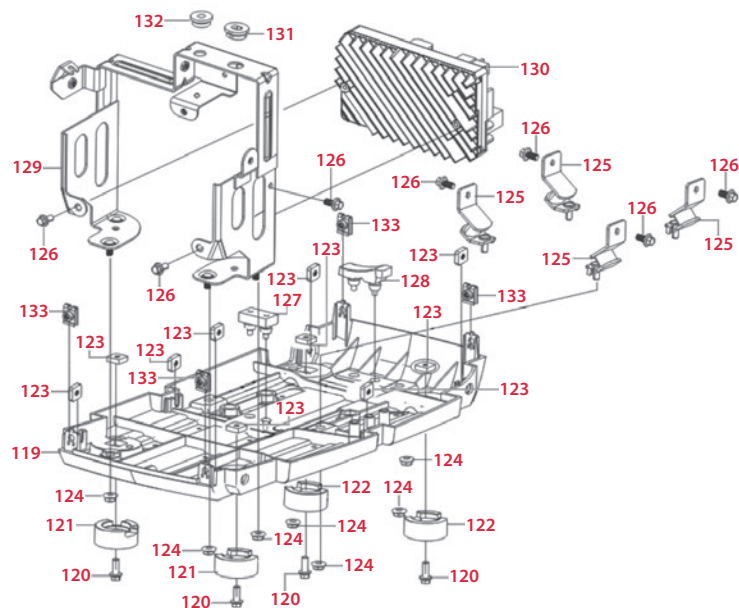
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Item	JAK Max Part No.	RATC Part No.	Description
Outer Casing (below)			
101	JMRT1271	80096-Y5V0110-SI00	Cover board, right
102	JMRT1272	80095-Y5V0120-Q200	Shell, right
103	JMRT1273	80091-Y5V0120-Q200	Shell, left
104	JMRT1274	80092-Y5V0110-SI00	Cover board, left
105	NS	90255-0516-53	Bolt
106	NS	90208-Y2V0110-0000	Bolt
107	NS	16601-Y2V0210-0000	Sleeve, fuel tank rubber
108	NS	50033-Y2V0110-0000	Jacket, rubber
109	NS	16641-Y2V0110-0000	Sleeve, filling oil hole rubber

Item	JAK Max Part No.	RATC Part No.	Description
Outer Casing - continued (below)			
110	NS	30431-Y2V0310-0000	Jacket, rubber
111	NS	37205-Y2V0310-0000	Opening, oil level view
112	NS	30431-Y2V0110-0000	Assembly, pan head screw & washer
113	NS	28004-Y2V0210-0000	Guide starting rope
114	NS	90255-0512-53	Washer and screw component
115	NS	28210-Y2V0110-0000	Handle, Starter Recoil cable
116	NS	90129-0416-01	Screw
117	NS	90007-0612-A1	Bolt
118	NS	17199-Y2V0110-0000	Nut



Item	JAK Max Part No.	RATC Part No.	Description
Bottom Plate & Inverter Frame Assembly (right)			
119	NS	51143-Y5V0210-Q200	Bottom plate
120	NS	90001-0614-01	Bolt
121	NS	51014-Y2V0140-0000	Frame seat
122	NS	51014-Y2V0250-0000	Frame seat
123	NS	90326-Y2V0110-0000	Nut
124	NS	90305-0600-31	Nut
125	NS	51005-Y2V0110-0000	Engine frame cushion
126	NS	90001-0612-01	Bolt
127	NS	50035-Y2V0210-0000	Cushion rubber bracket
128	NS	50035-Y2V0110-0000	Cushion rubber bracket
129	NS	30081-Y2V0120-H700	Inverter assembling frame
130	JMRT1275	30043-Y5V1410-0000	Invertor
131	NS	16601-Y2V0210-0000	Fuel tank rubber sleeve
132	NS	16601-Y2V0110-0000	Fuel tank rubber sleeve
133	NS	90001-0612-01	Bolt
	NS	17199-Y2V0110-0000	Nut

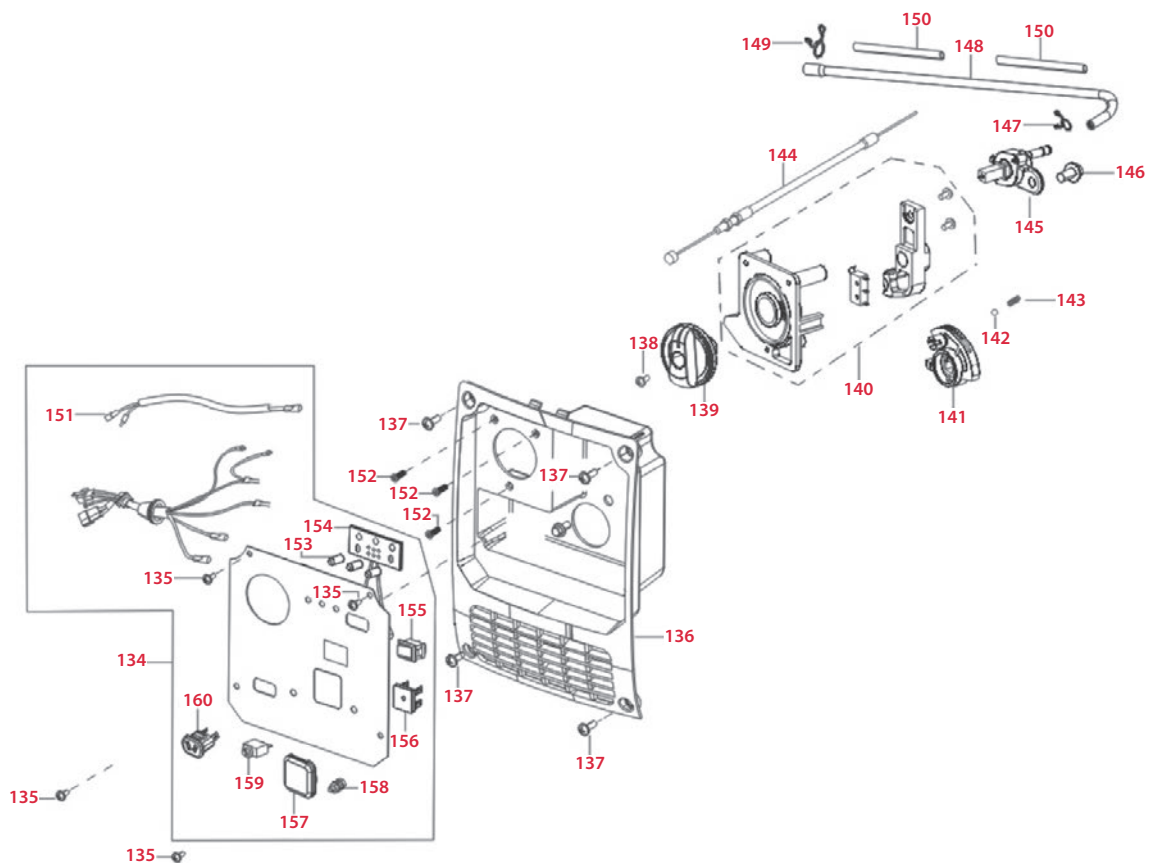


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R2000iS Inverter Generator

Item	JAK Max Part No.	RATC Part No.	Description
Control Panel Assembly (below)			
134	NS	35610-Y5V4710-H300	Control panel assembly
135	NS	90124-Y9T0310-53	Cross groove pan screw
136	NS	35680-Y5V0110-Q200	Panel sear
137	NS	90255-0516-53	Fuel tank rubber sleeve
138	NS	90103-0416-51	Screw
139	NS	35643-Y2V0210-Q200	Knob
140	NS	35160-YB00110-0000	Switch subassembly
141	NS	94111-Y2V0410-0000	Switch subassembly
142	NS	90543-0500-00	Steel ball
143	NS	16527-Y2V0210-0000	Stopper adjusting spring
144	NS	16080-Y2V0110-0000	Choke hand subassembly
145	NS	16750-Y2V0140-0000	Fuel cock assembly
146	NS	90001-0612-01	Bolt
147	NS	90740-Z010210-0000	Collar

Item	JAK Max Part No.	RATC Part No.	Description
Control Panel Assembly - continued (below)			
148	NS	90686-Y2V0510-0000	Fuel tube
149	NS	90685-Z030510-0000	Collar
150	NS	30431-Y020110-0000	Rubber jacket
151	NS	35660-YB00220-0000	Control panel wiring harness
152	NS	90129-0416-01	Cross groove pan screw
153	NS	37099-Y2V0110-0000	Indicator seat
154	NS	35620-YAY0110-0000	Indicator assembly
155	NS	35540-Y2V0110-0000	Idle switch
156	NS	35621-Y020110-0000	Rectification bridge
157	NS	35614-Y020410-0000	Power supply socket subassembly
158	NS	35629-Y2V0110-0000	Grounding terminal combination
159	NS	31234-Y020110-0000	Overcurrent protector
160	NS	35619-Y2V0110-0000	DC socket subassembly



R3000iE Inverter Generator

Product Information

The RATC R3000iE inverter generator is ideal for generating high quality pure sine wave electricity to power your domestic and commercial equipment. With a rated output of 3,000 watts, this quiet generator can run for up to 8.5 hours on continuous 1/2 load operation and comes with electric and recoil start for convenient back up and ease of use.

All RATC inverter generators, no matter the output, can be joined with the RATC parallel cable to increase your power.

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



SPECIFICATIONS

R3000iE

Engine model	R210-i
Engine type	Air cooled, 4 stroke, OHV, single cylinder
Starting system	Recoil / Electric start with LI battery
Displacement	212ml
Bore x stroke	70 x 55mm
Compression ratio	9 : 1
Rated frequency	50Hz
Rated voltage	230v
Rated power	3.2kw
Max. power	3.5kw
DC output	12v / 8.3A
Fuel tank capacity	10 litres
Full load continuous running time	5 hours
1/2 load continuous running time	8.5 hours
Noise (7m)	69dB
Dimensions (L x W x H mm)	645 x 480 x 500
Net weight	46kg

Features

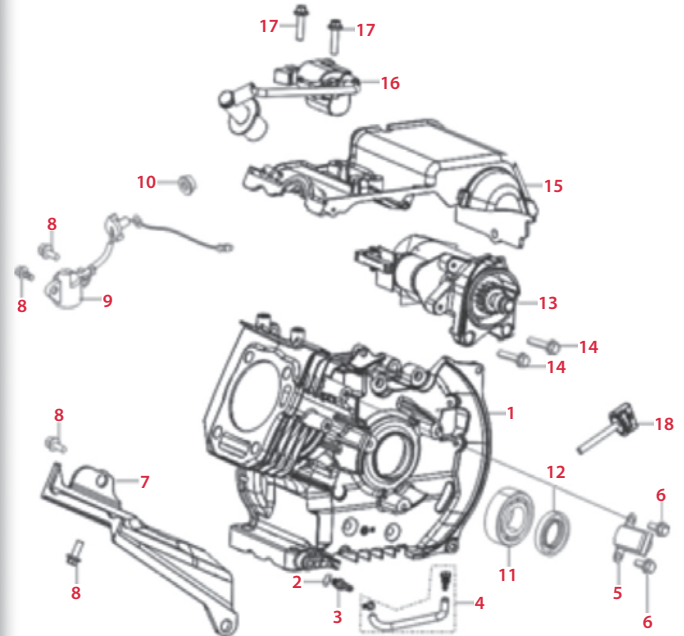
- With parallel-in function, two inverter generators, with the same specifications or not, can be in parallel with each other.
- Convenient recoil and electric start.
- Free shifting between 50Hz and 60Hz.
- Lightweight and low noise level.
- USB port.
- Wheels and handle for easy movement.



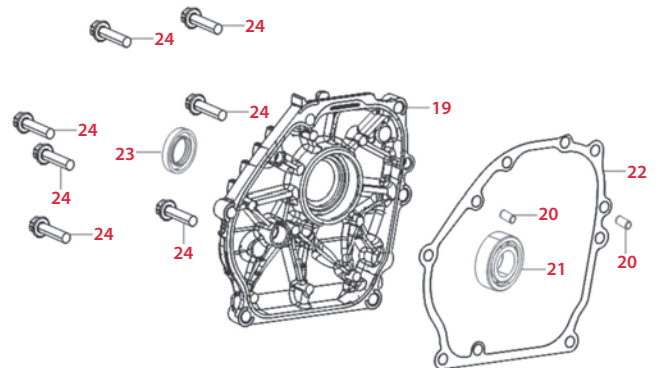
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

R3000iE Inverter Generator

Item	JAK Max Part No.	RATO Part No.	Description
Crankcase (right)			
1	NS	11310-Z1D0110-0009	Crankcase subassembly
2	NS	90408-Z010510-0000	Flat washer
3	NS	90689-Z430210-0000	
4	NS	11011HZ1D0210-OB00	Oil drain tube
5	NS	30130-Z1D0110-0000	Trigger
6	NS	90001-0516-01	Bolt
7	NS	19309-Z1D0110-0000	Crankcase side shield
8	NS	90001-0616-01	Bolt
9	JMRT1004	37060-Z010120-0000	Engine oil sensor
10	NS	90305-Z010210-01	Nut
11	NS	90547-0305-CLTM	Deep groove ball bearing
12	NS	90682-Z010110-0000	Oil seal
13	NS	30300-Z1D0110-0000	Starter motor assembly
14	NS	90001-0628-01	Bolt
15	NS	16675-Z1D0110-0000	
16	JMRT1410	30400-Z1D0110-0000	Ignition coil
17	NS	90001-0628-01	Bolt
18	NS	15010-Z010130-Q500	Oil dipstick subassembly



Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly (right)			
19	NS	11411-Z1D0110-0000	Crankcase cover
20	NS	90502-0812-00	Pin
21	NS	90547-0205-CLTM	Deep groove ball bearing
22	JMRT1366	11001-Z010120-0000	Crankcase gasket
23	NS	90682-Z010110-0000	Oil seal
24	NS	90001-0832-01	Bolt

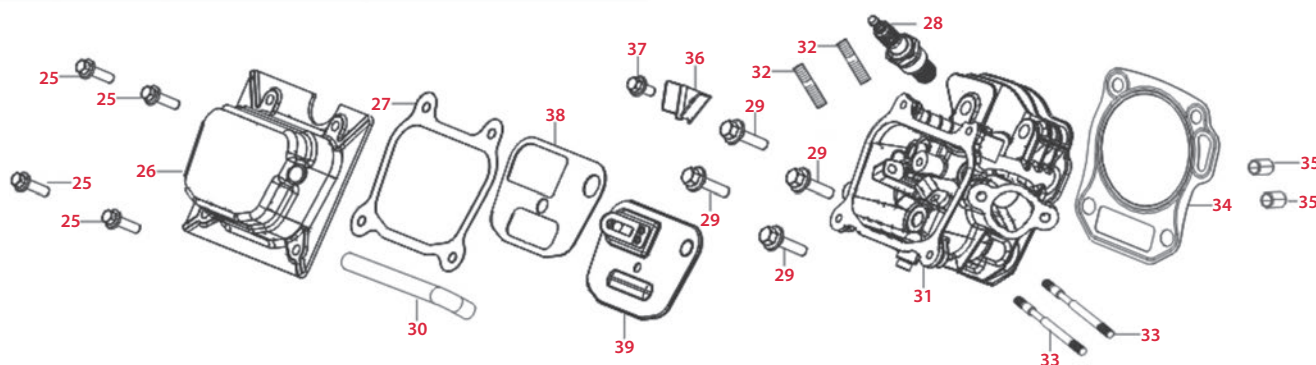


R3000iE Inverter Generator

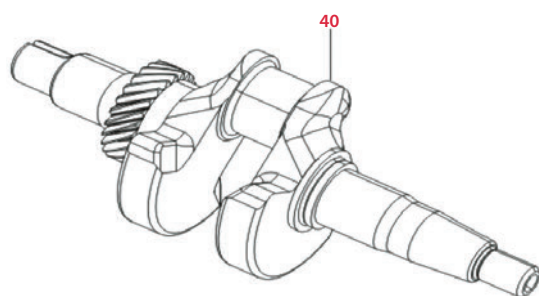
*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
25	NS	90001-0612-01	Bolt
26	NS	12410-Z1D0110-0000	Cylinder head cover subassembly
27	JMRT1411	12004-Z1D0110-0000	Cylinder head cover gasket
28	BPR6ES	30010-Z010110-0000	Spark plug
29	NS	12003-Z010110-0000	Cylinder head bolt
30	NS	17004-Z1D0110-0000	Breather tube
31	NS	12140-Z950210-00A0	Cylinder head subassembly
32	NS	90203-Z010110-0000	Bolt

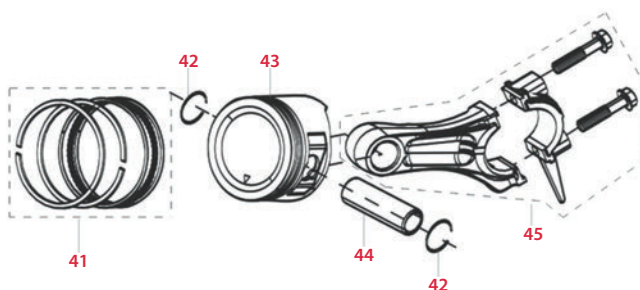
Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
33	NS	90207-Z330210-0000	Bolt
34	JMRT1412	12131-Z950210-0000	Cylinder head gasket
35	NS	90502-1114-00	Pin
36	NS	12419-Z950210-0000	
37	NS	90001-0612-03	Bolt
38	NS	11332-Z1D0110-0000	Breath groove gasket
39	NS	11320-Z1D0110-0000	Breath piece



Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below left)			
40	NS	13300-Z1D0110-0000	Crankshaft assembly



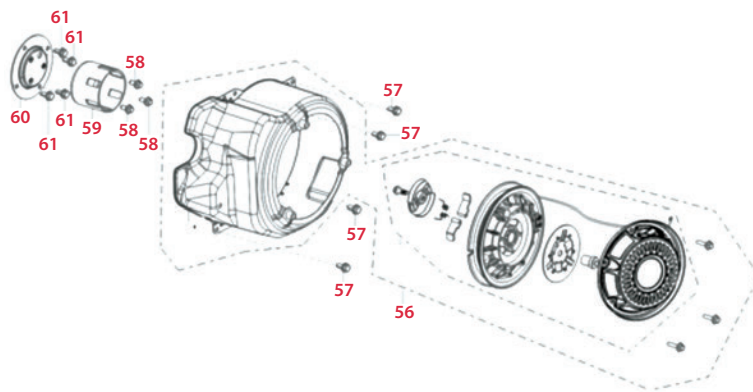
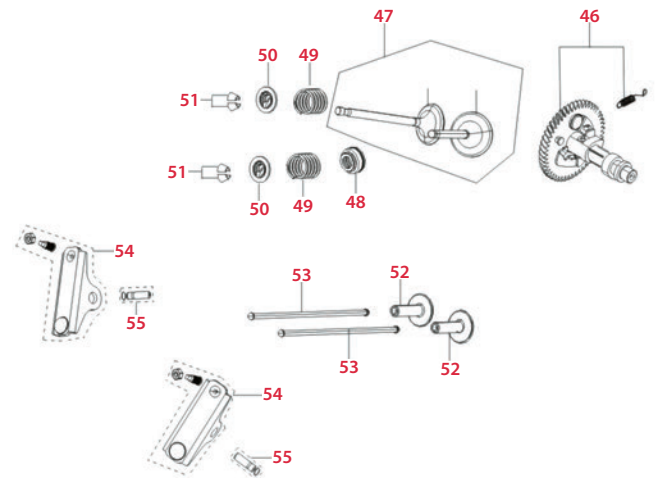
Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (below right)			
41	JMRT1011	13200-Z140210-0099	Piston ring set
42	JMRT1012	13122-Z010110-0000	Piston pin clip
43	JMRT1413	13111-Z950120-00A0	Piston
44	JMRT1014	13121-Z010110-0000	Piston pin
45	NS	13010-Z950110-0000	Connecting rod



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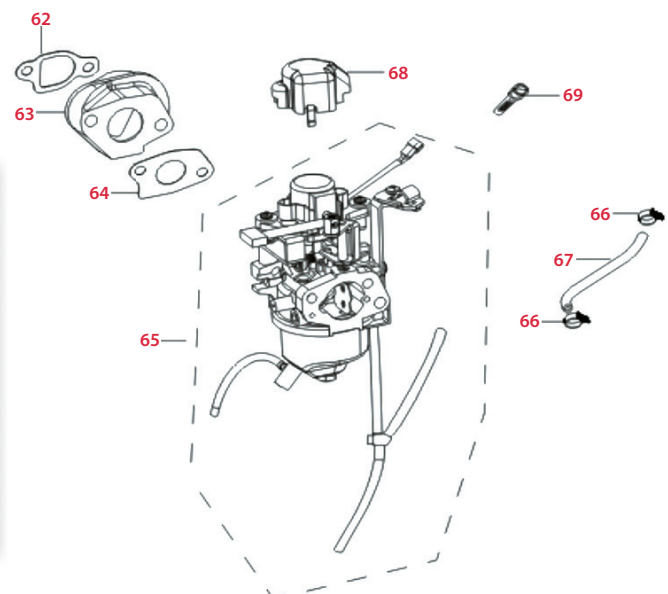
R3000iE Inverter Generator

Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (right)			
46	NS	14200-Z950120-0000	Camshaft assembly
47	NS	12110-Z950110-0000	Valves set
48	NS	12101-Z810210-0000	Seal guide
49	NS	12103-Z010110-0000	Valve spring
50	NS	12112-Z810210-0000	Valve spring seat
51	NS	12109-Z810110-0000	Valve lock clamp
52	NS	14081-Z040110-0000	Valve tappet
53	NS	14071-Z950110-0000	Valve lifter
54	NS	14310-Z950110-0000	Valve rocker subassembly
55	NS	14318-Z950110-0000	Valve rocker shaft



Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (left)			
56	JMRT1414	28100-Z1D0110H6H6B	Starter Recoil
57	NS	90001-0612-01	Bolt
58	NS	90001-0610-01	Bolt
59	JMRT1415	28002-Z1D0110-0000	Starter pulley
60	NS	28020-Z150120-0000	Starter cup seat
61	NS	90001-0614-01	Bolt

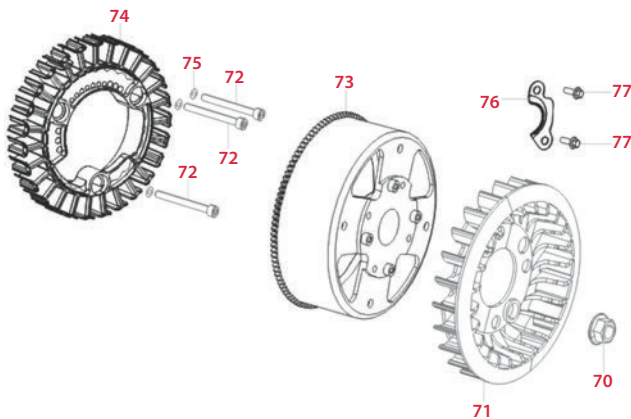
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (right)			
62	NS	16002-Z950110-0000	Carburettor insulator gasket
63	NS	16003-Z1D0110-0000	Carburettor insulator plate
64	JMRT1038	16001-Z010110-0000	Carburettor gasket
65	JMRT1416	16100-Z1D0210-0009	Carburettor assembly
66	NS	90685-Z020110-0000	Clamp
67	NS	90686-YBW0110-0000	Fuel tube
68	NS	14411-Y2V0110-0000	Cap
69	NS	16652-Z800110-0000	Fuel strainer



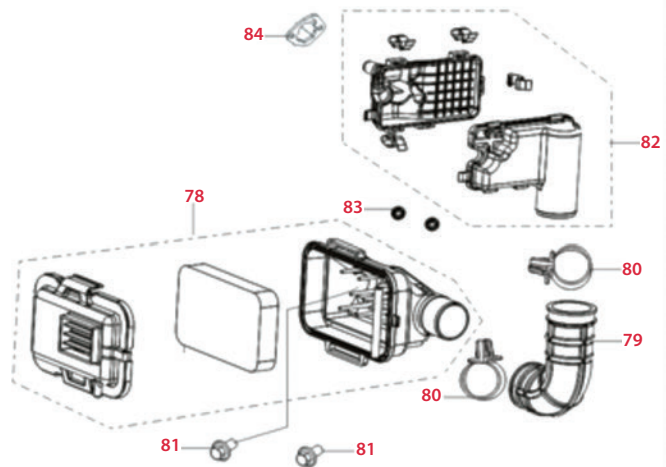
R3000iE Inverter Generator

*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

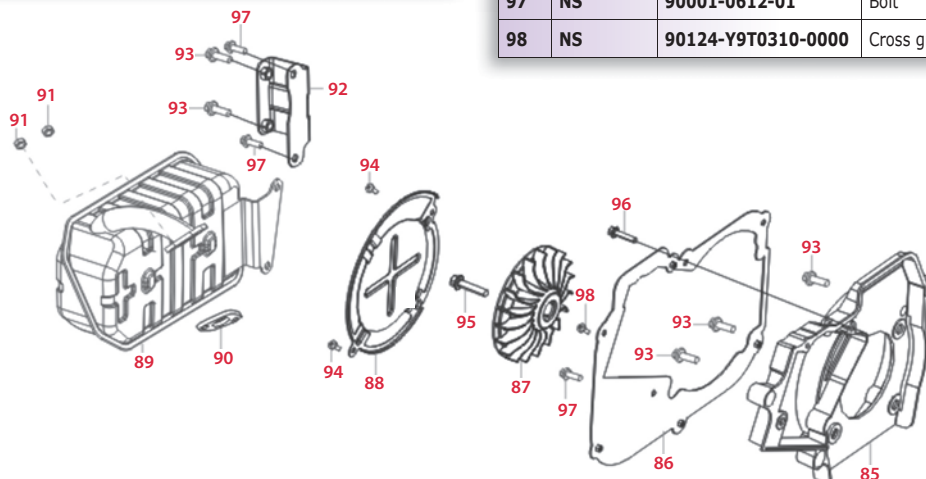
Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (below)			
70	NS	13501-Z010110-0000	Flywheel nut
71	NS	19352-Z1D0110-0000	Impeller
72	NS	90102-0660-06	
73	NS	30110-YBW0110-0000	Magneto rotor case subassembly
74	NS	30120-YE20110-0000	Magneto stator subassembly
75	NS	90408-0600-E1	Flat washer
76	NS	30002-Z1D0110-0000	Magneto wiring clamp
77	NS	90001-0510-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below right)			
78	JMRT1417	17100-Z1D0110-0000	Air cleaner
79	NS	12510-Z1D0110-0000	Intake tube
80	NS	12081-Z1D0110-0000	
81	NS	90001-0625-01	Bolt
82	NS	17400-Z1D0110-0000	
83	NS	90305-0600-31	Nut
84	JMRT1418	17001-Z1D0110-0000	Air cleaner gasket



Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below)			
85	NS	28110HYBW0110-Q200	Shroud
86	NS	18299HYBW0120-0000	
87	NS	19352HYBW0110-Q200	Impeller
88	NS	18020-YBW0110-0000	Muffler insulator plate
89	JMRT1419	18100-YBW0110-0000	Muffler assembly
90	JMRT1420	18001-Z950110-0000	Exhaust outlet gasket

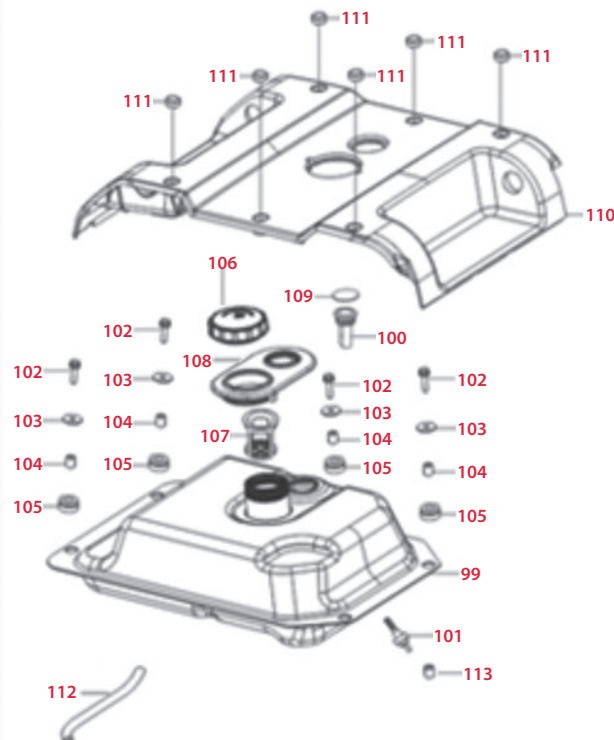


Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly - continued (below)			
91	NS	90303-0800-31	Nut
92	NS	18030HYBW0110-H300	Muffler bracket
93	NS	90001-0816-01	Bolt
94	NS	90134-YB00110-0000	Bolt
95	NS	90001-0820-01	Bolt
96	NS	90007-0635-A1	Bolt
97	NS	90001-0612-01	Bolt
98	NS	90124-Y9T0310-0000	Cross groove pan screw

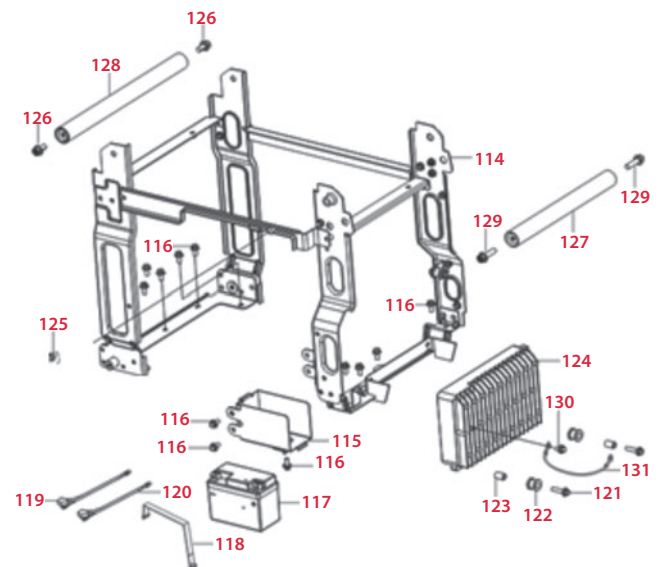
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

R3000iE Inverter Generator

Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (below left)			
99	JMRT1421	16620-YBS0110-H700	Fuel tank assembly
100	NS	37200-Y5V0110-0000	Oil level assembly
101	NS	16680-Y2P0110-0000	Fuel tank oil outlet subassembly
102	NS	90001-0620-01	Bolt
103	NS	90408-Y020310-0000	Flat washer
104	NS	90683-Y020110-0000	Bush
105	NS	16601-Y020120-0000	Fuel tank rubber sleeve
106	NS	16730-YBR0210-Q200	Fuel tank cover
107	NS	16652-Y9T0110-0000	Fuel strainer
108	NS	16641-YBW0110-0000	Filling oil hole rubber sleeve
109	NS	37205-Y2V0310-0000	Oil level view opening
110	NS	94230HYBW0110-Q200	Upper cover
111	NS	90722-YBW0110-0000	End plug
112	NS	30431-Y020110-0000	Rubber jacket
113	NS	30431-YBW0210-0000	Rubber jacket



Item	JAK Max Part No.	RATO Part No.	Description
Frame Assembly (below right)			
114	NS	51100-YBW0320-H700	Engine frame assembly
115	NS	31130-YBW0210-QC00	Battery case
116	NS	90001-0612-01	Bolt
117	JMRT1314	31110-Y030610-0000	Battery
118	NS	31115-YBW0110-0000	Battery band
119	NS	31112HY1N0210-0000	Anode wire
120	NS	31114HY5R0110-0000	Cathode wire
121	NS	90001-0625-01	Bolt
122	NS	90683-Y2P0210-0000	Bush
123	NS	30431-Y2P0110-0000	Rubber jacket
124	NS	30043-YBS0310-0000	Invertor
125	NS	90001-0620-01	Bolt
126	NS	90001-0816-01	Bolt
127	NS	80153HYBW0110-H800	Handle
128	NS	80153HYBW0210-H800	Handle
129	NS	90001-0830-03	Bolt
130	NS	90103-0408-51	Screw
131	NS	30009-YBW0110-0000	Grounding

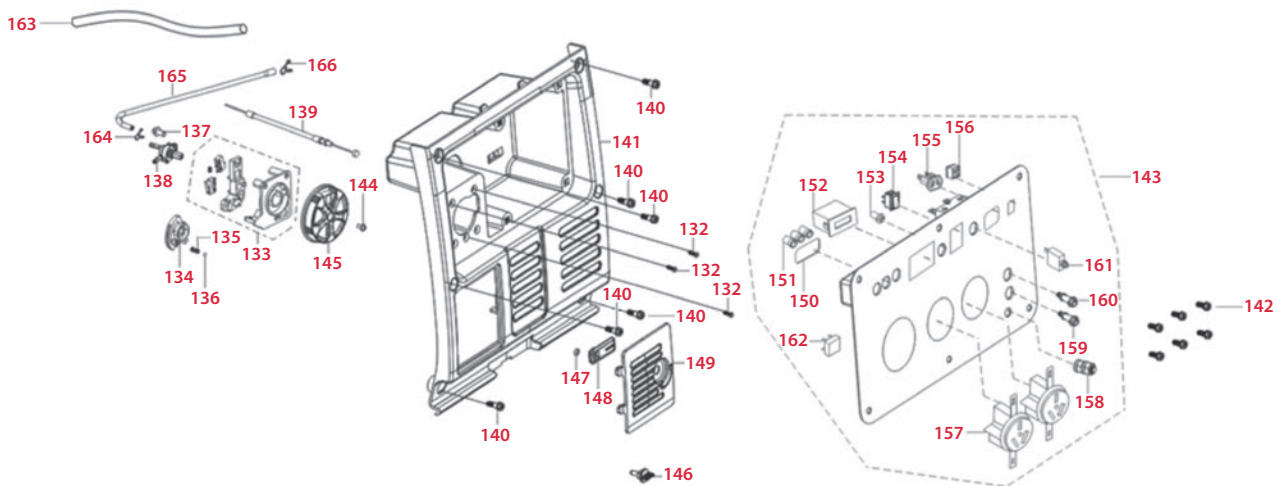


R3000iE Inverter Generator

*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

Item	JAK Max Part No.	RATC Part No.	Description
Control Panel Assembly (below)			
132	NS	90129-0416-01	
133	NS	35160-YBR0110-0000	Switch subassembly
134	NS	94111-Y2V0410-0000	Switch subassembly
135	NS	16527-Y2V0210-0000	Stopper adjusting spring
136	NS	90543-0500-00	Steel ball
137	NS	90001-0614-01	Bolt
138	NS	16750-Y2V0140-0000	Fuel cock assembly
139	NS	16080-YBW0110-0000	Choke handle subassembly
140	NS	90208-YB00410-0000	Bolt
141	NS	35680HYBW0110-Q200	Panel seat
142	NS	90255-0512-53	
143	NS	35610-YBS0610-H300	Control panel subassembly
144	NS	90103-0416-51	Screw
145	NS	35643HYBR0110-0000	Knob
146	NS	90208-Y9T0120-0000	Bolt
147	NS	90341-YA50110-0000	Nut
148	NS	24329-YCF0110-Q200	Lever

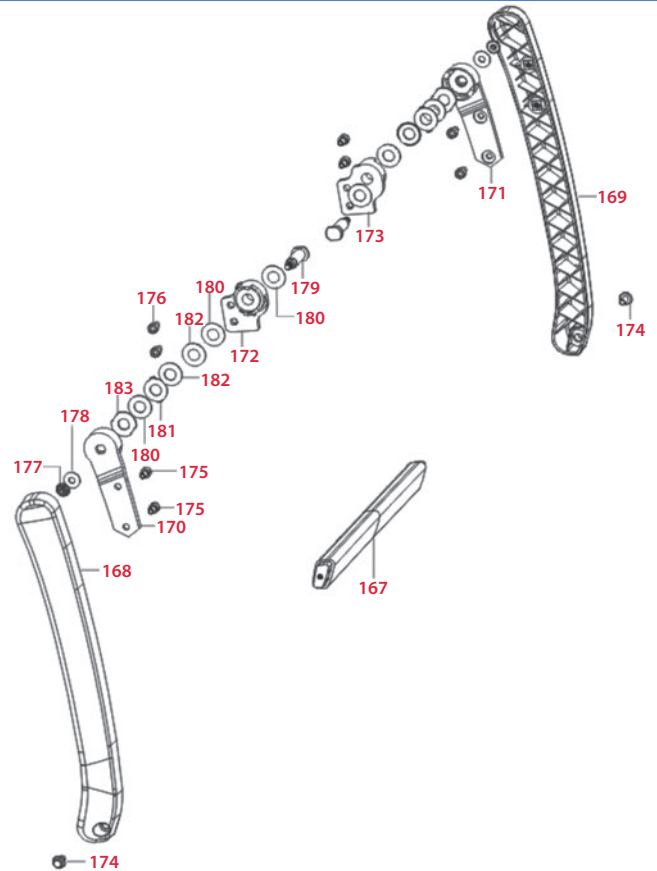
Item	JAK Max Part No.	RATC Part No.	Description
Control Panel Assembly - continued (below)			
149	NS	31123HYBW0110-Q200	
150	NS	35620-YAY0110-0000	Indicator assembly
151	NS	37099-Z260110-0000	Indicator seat
152	NS	35632-Y130110-0000	Timer
153	NS	35646-Y2V0210-0000	Resetting button
154	NS	35160-Y0G0110-0000	Switch subassembly
155	NS	35619-Y2V0110-0000	DC socket subassembly
156	NS	35619-Y9T0110-0000	DC socket subassembly
157	NS	35614-Y020510-0000	Power supply socket subassembly
158	NS	35629-Y2V0110-0000	Grounding terminal subassembly
159	NS	35614-Y2P0310-0000	Power supply parallel socket
160	NS	35614-Y2P0210-0000	Power supply parallel socket
161	NS	31234-Y9H0110-0000	Overcurrent protector
162	NS	35621-Y2V0110-0000	Rectification bridge
163	NS	30431-YBW0210-0000	
164	NS	90685-Z030220-0000	Clamp
165	NS	90686-YBW0210-0000	Fuel tube
166	NS	90685-Z020110-0000	Clamp



*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

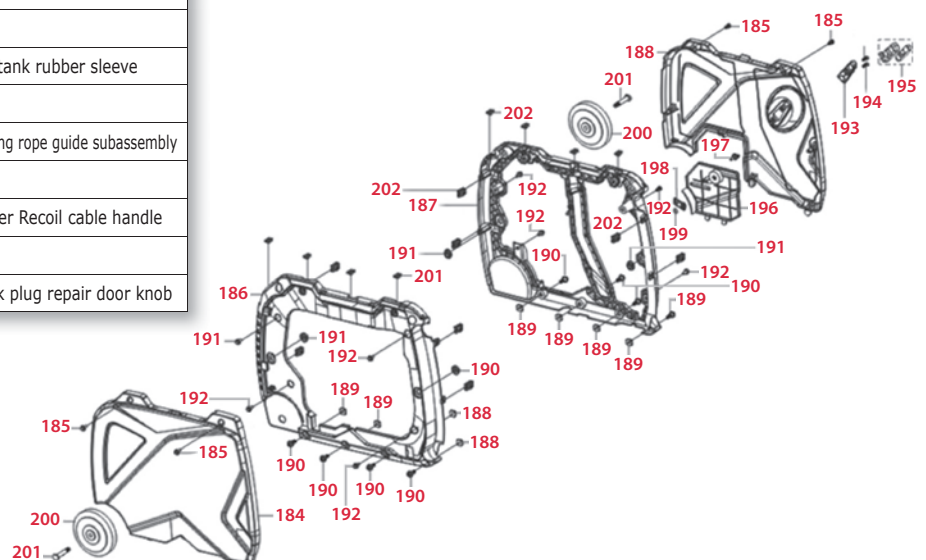
R3000iE Inverter Generator

Item	JAK Max Part No.	RATO Part No.	Description
Handle Assembly (right)			
167	NS	54913-YBW0110-0P00	
168	NS	54912HYBW0110-Q200	
169	NS	54912HYBW0210-Q200	
170	NS	54122-YBW0110-H700	
171	NS	54122-YBW0210-H700	
172	NS	54113-YBW0120-0000	Handle tube connecting seat
173	NS	54113-YBW0220-0000	Handle tube connecting seat
174	NS	90001-0612-01	Bolt
175	NS	90001-0610-03	Bolt
176	NS	90001-0616-01	Bolt
177	NS	90341-Y2D0210-0000	Nut
178	NS	90408-Y840210-0000	Flat washer
179	NS	26231-YBW0110-0000	
180	NS	90412-YBW0210-0100	Flat washer
181	NS	94101-YBW0110-0100	Position fixing block
182	NS	90419-YBW0110-0300	
183	NS	90412-YBW0110-Q200	Flat washer



Item	JAK Max Part No.	RATO Part No.	Description
Outer Case (below)			
184	NS	80092HYBW0110-SI02	Left cover board
185	NS	90208-YB00210-0000	Bolt
186	NS	80091HYBW0110-Q200	Left shell
187	NS	80095HYBW0110-Q200	Right shell
188	NS	80096HYBW0110-SI02	Right cover board
189	NS	90326-Y2V0110-0000	
190	NS	90208-YB00110-0000	Bolt
191	NS	16601-Y2V0210-0000	Fuel tank rubber sleeve
192	NS	90001-0612-01	Bolt
193	NS	28004-Y2V0210-0000	Starting rope guide subassembly
194	NS	90255-0512-53	
195	NS	28210-Y2V0110-0000	Starter Recoil cable handle
196	NS	51197HYBW0110-SI00	
197	NS	80105-YB00110-Q200	Spark plug repair door knob

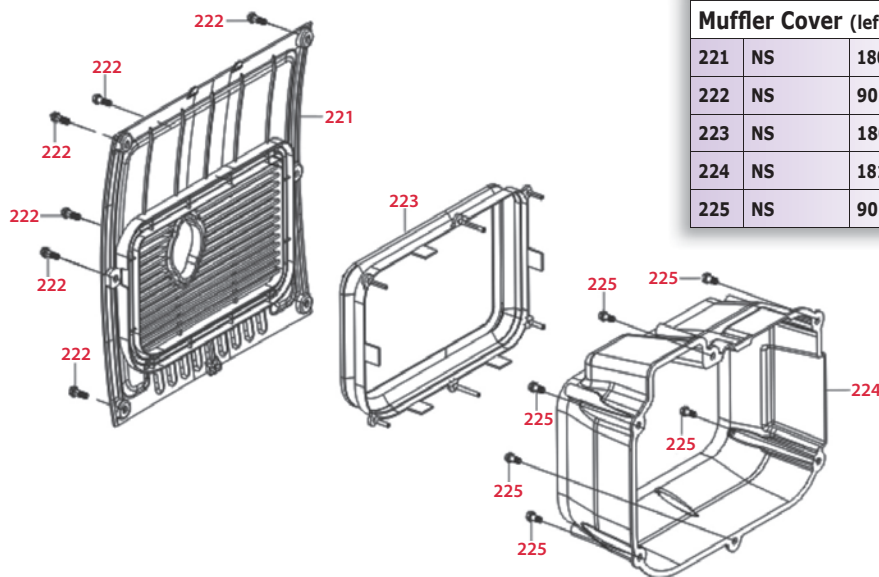
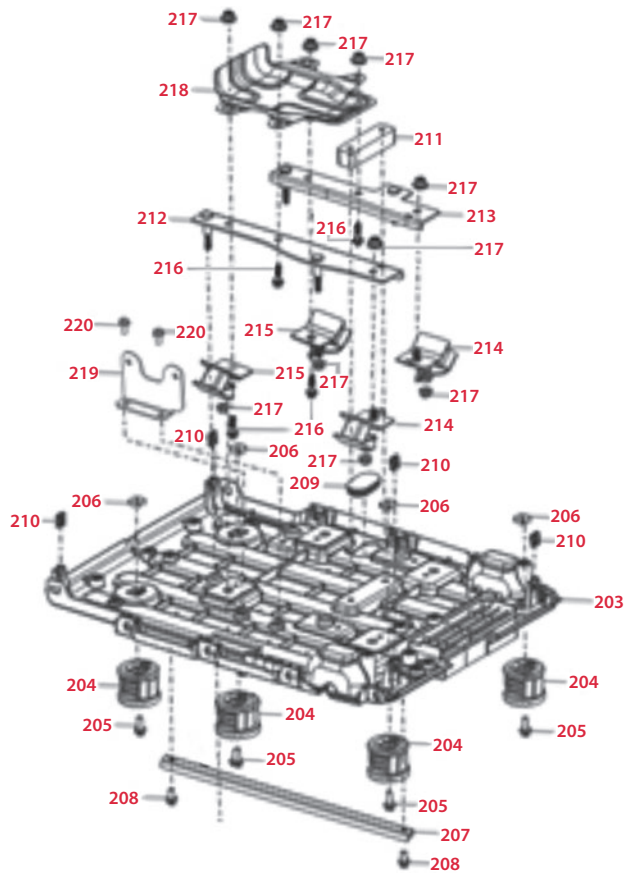
Item	JAK Max Part No.	RATO Part No.	Description
Outer Case - continued (below)			
198	NS	24329-YCF0110-Q200	Lever
199	NS	90341-YA50110-0000	Nut
200	NS	44110-Y2P0110-0000	Front wheel
201	NS	42002-YBW0110-0000	Rear wheel shaft
202	NS	17199-YB00110-0000	Nut



R3000iE Inverter Generator

*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

Item	JAK Max Part No.	RATC Part No.	Description
Bottom Plate & Feet (right)			
203	NS	51143HYBW0110-Q200	Bottom plate
204	NS	51014HYBW0110-0000	Engine frame shock absorption seat
205	NS	90001-0616-01	Bolt
206	NS	90326-Y2V0110-0000	
207	NS	51103-YBW0110-H700	
208	NS	90001-0612-01	Bolt
209	NS	90722-Y2P0110-0000	End plug
210	NS	17199-YB00110-0000	Nut
211	NS	50035-YBW0110-0000	Cushion rubber bracket
212	NS	51188HYBW0110-QC00	
213	NS	51189HYBW0110-QC00	
214	NS	51009HY2P0110-0000	Engine frame left cushion
215	NS	51011HY2P0210-0000	Engine frame right cushion
216	NS	90001-0840-01	Bolt
217	NS	90305-0800-31	Nut
218	NS	19306-Z1D0110-0000	Crankcase air deflector
219	NS	17003HYBW0110-H700	Air cleaner support
220	NS	90001-0612-01	Bolt



Item	JAK Max Part No.	RATC Part No.	Description
Muffler Cover (left)			
221	NS	18002HYBW0110-Q200	Muffler side cover
222	NS	90208-YB00410-0000	Bolt
223	NS	18018-Y2P0120-0000	
224	NS	18130HYBW0110-Q200	Muffler outer cover
225	NS	90208-YB00210-0000	Bolt

R6250iD Open Frame Generator



Product Information

The RATC R6250iD open frame generator is lightweight but with a high power output.

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

Features

- Precisely controlled ignition.
- Smart circuit protection, reliable safety.
- Low engine oil alarm and automatic shutdown to protect engine.
- Accessible easy operation on the front panel.
- Lightweight, high power output.
- Convenient recoil and electric starter.
- Wheels and handle for easy movement.



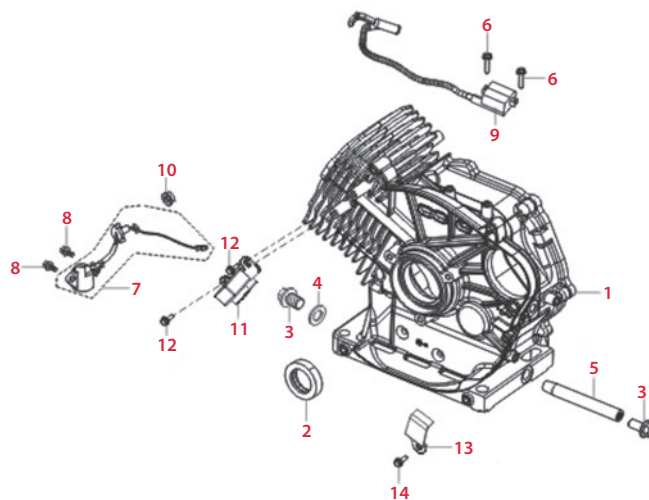
SPECIFICATIONS

R6250iD	
Engine model	R300-i
Certification	EPA 3, EMC
Engine type	Air cooled, 4 stroke, OHV, single cylinder
Starting system	Recoil / Electric start
Displacement	301cc
Bore x Stroke	80 x 60
Compression ratio	8.2 : 1
Rated frequency	60hz
Rated voltage	120v & 240v
Rated power	5.5kw
Surge power	6.25kw
THD (%)	≤3
DC output	12v / 8.3A
Fuel tank capacity	15 litres
Full load continuous running time	9 hours
1/2 load continuous running time	12 hours
Noise (7m)	84db
Dimensions (L x W x H mm)	605 x 514 x 537
Net weight	60 kg
Multi function meter	yes
Breaker	3
USB device	yes
Receptacle cover	yes
Spark arrestor	yes
Oil drain tube	yes
Wheel kit	8" wheels & handle, comes standard

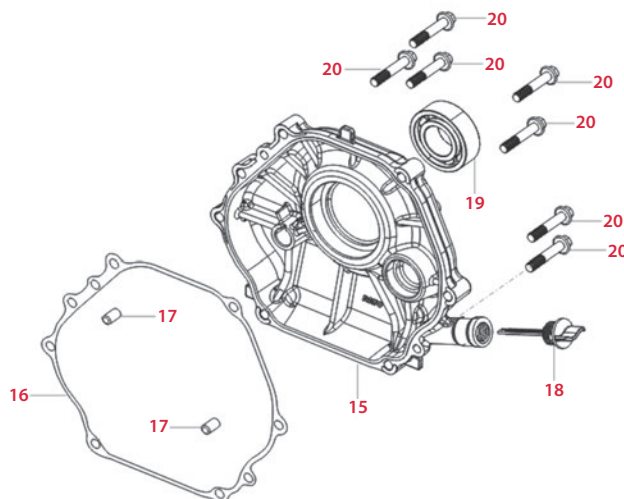
R6250iD Open Frame Generator

*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

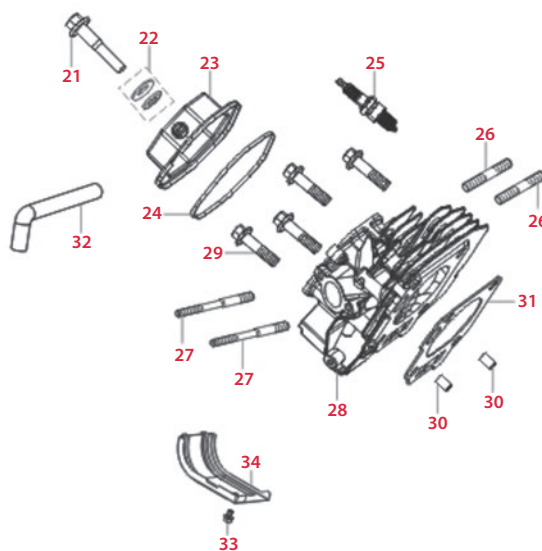
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase (right)			
1	NS	11310-Z0C0120-0B09	Crankcase subassembly
2	JMRT1423	90682-Z080110-0000	Oil
3	NS	11007-Z010110-0000	Drain plug bolt
4	NS	90408-Z010510-0000	Flat washer
5	NS	11011-Z980110-0000	Oil drain tube
6	NS	90001-0520-01	Bolt
7	NS	37060-Z080120-0000	Engine oil sensor
8	NS	90001-0616-01	Bolt
9	NS	30400-Z980110-0001	Ignition coil
10	NS	90305-Z010210-01	Nut
11	NS	30130-Z980120-0000	
12	NS	90001-0516-01	Bolt
13	NS	30002-Z980110-0000	Magneto wiring clamp
14	NS	90001-0510-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly & Governor Gear Assembly			
15	NS	11411-Z0C0110-0B01	Crankcase cover
16	JMRT1424	11001-Z580120-0000	Crankcase gasket
17	NS	90502-0912-00	Pin
18	NS	15010-Z080130-Q500	Oil dipstick subassembly
19	NS	90547-0206-CL	Deep groove ball bearing
20	NS	90001-0835-01	Bolt



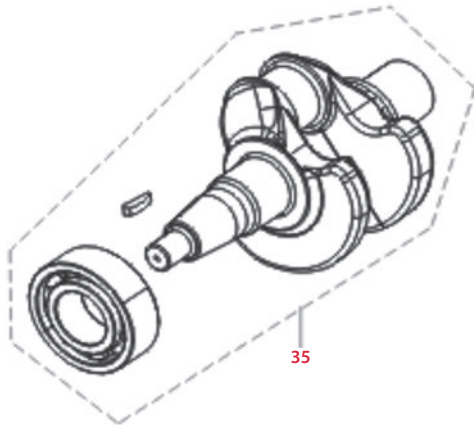
Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (right)			
21	NS	12032-Z080110-0100	Cylinder head bolt
22	NS	12034-Z080110-0099	
23	NS	12410-Z580110-0199	Cylinder head cover subassembly
24	NS	12004-Z580110-0099	Cylinder head cover gasket
25	NS	30010-Z010110-0000	Spark plug
26	NS	90203-Z010110-0000	Bolt
27	NS	90204-Z0C0110-0000	Bolt
28	NS	12140-Z730210-0B09	Cylinder head subassembly
29	NS	12003-Z080110-0000	Cylinder head bolt
30	NS	90502-1220-00	Pin
31	JMRT1425	12131-Z730120-00LS	Cylinder head gasket
32	NS	17004-Z080510-0000	Breather tube
33	NS	90001-0610-01	Bolt
34	NS	19304-Z080110-0000	Cylinder body shroud



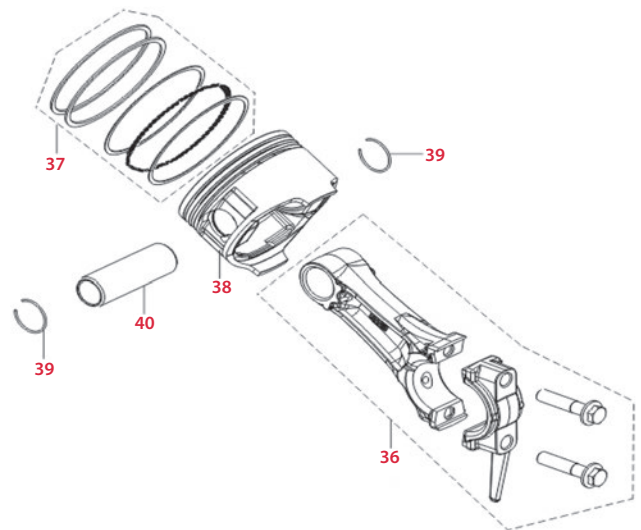
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

R6250iD Open Frame Generator

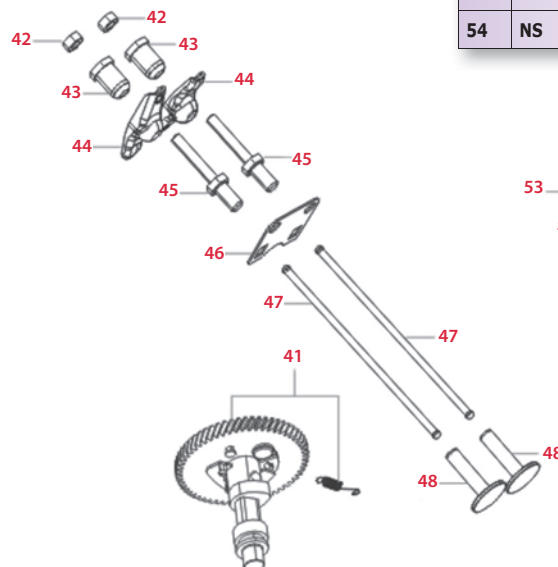
Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below left)			
35	NS	13300-Z0C0110-CLTM	Crankshaft assembly



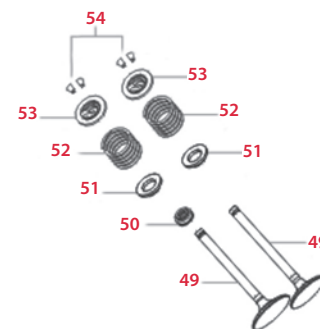
Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (below right)			
36	NS	13010-Z730120-0099	Connecting rod
37	NS	13200-Z730110-0099	Piston ring assembly
38	NS	13111-Z730120-0099	Piston
39	NS	13122-Z730110-0099	Piston pin clip
40	NS	13121-Z730110-0000	Piston pin



Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (below)			
41	NS	14200-Z730120-0099	Camshaft assembly
42	NS	14312-Z010110-0000	Valve lock nut
43	NS	14314-Z010110-0000	Valve adjusting nut
44	NS	14311-Z080110-0000	Valve Rocker
45	NS	14313-Z010110-0000	Rocker shaft bolt
46	NS	14090-Z080110-0000	Lifter stopper plate subassembly
47	NS	14070-Z730110-0000	Valve lifter subassembly
48	NS	14081-Z580110-0000	Valve Valve
49	NS	12110-Z730110-0099	Valve set



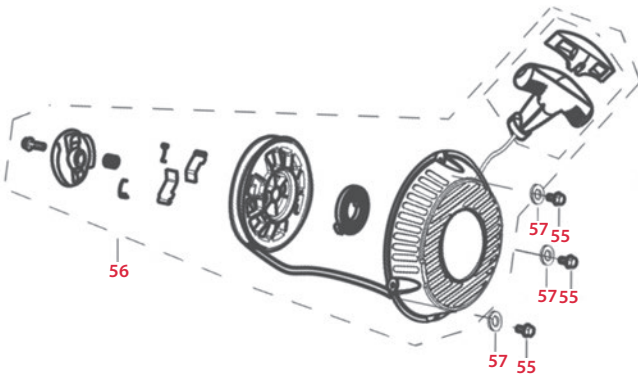
Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
50	NS	12101-Z020110-0000	Seal guide
51	NS	12105-Z080110-0000	Valve spring retainer
52	NS	12103-Z730110-0099	Valve spring
53	NS	12112-Z730110-0000	Valve spring seat
54	NS	12109-Z730110-0000	Valve lock clamp



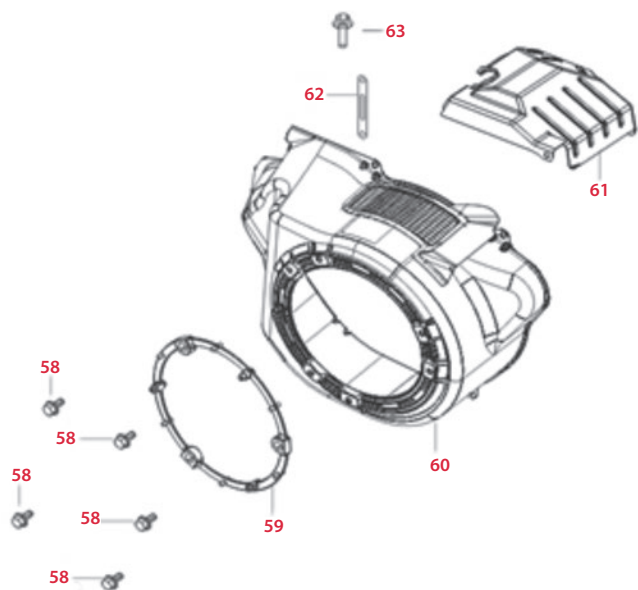
R6250iD Open Frame Generator

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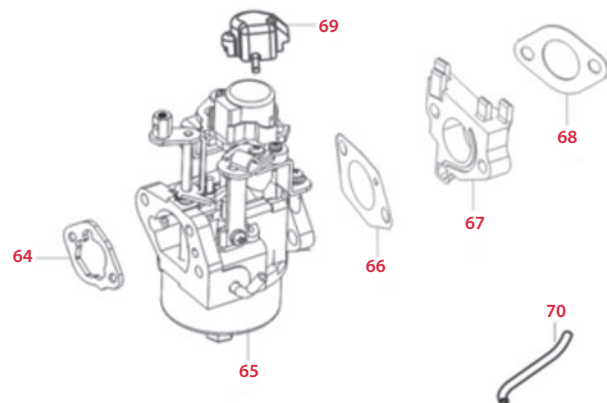
Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (below left)			
55	NS	90001-0620-01	Bolt
56	JMRT1426	28200-Z980110-RU00	Starter Recoil assembly
57	NS	90408-0600-E1	Flat washer



Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (below right)			
58	NS	90001-0612-01	Bolt
59	NS	28261-Z980110-0000	
60	NS	28110-Z0C0110-RU00	Shroud
61	NS	19305-Z0C0120-0000	Cylinder body shroud
62	NS	90684-Z030120-0000	Clip
63	NS	90001-0608-01	Bolt



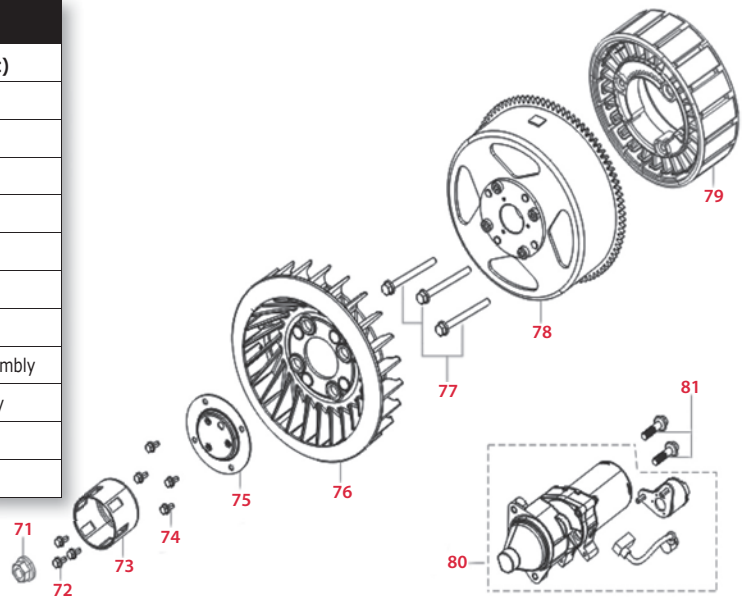
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (right)			
64	JMRT1212	17001-Z080210-0000	Air cleaner gasket
65	JMRT1427	16100-Z0C0110-0209	Carburettor assembly
66	JMRT1428	16001-Z080110-0000	Carburettor gasket
67	NS	16003-Z0C0110-0000	Carburettor insulator plate
68	NS	17002-Z080110-0000	Inlet gasket
69	NS	14411-Y2V0110-0000	Cap
70	NS	30431-Z010110-0000	Rubber jacket



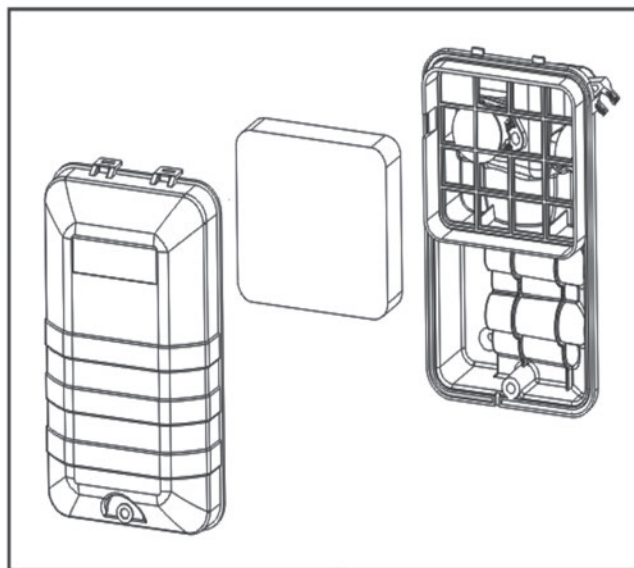
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R6250iD Open Frame Generator

Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (right)			
71	NS	13501-Z080110-0000	Flywheel nut
72	NS	90001-0612-01	Bolt
73	NS	28002-Z980110-0000	Starter cup
74	NS	90001-0612-01	Bolt
75	NS	28020-Z150120-0000	Starter cup seat
76	NS	19352-Z980110-0000	Impeller
77	NS	90102-0660-06	Bolt
78	NS	30110-YA40110-0000	Magneto rotor case subassembly
79	NS	30120-YA40410-0000	Magneto stator subassembly
80	NS	30300-Z980120-0000	Starter motor
81	NS	90001-0825-01	Bolt

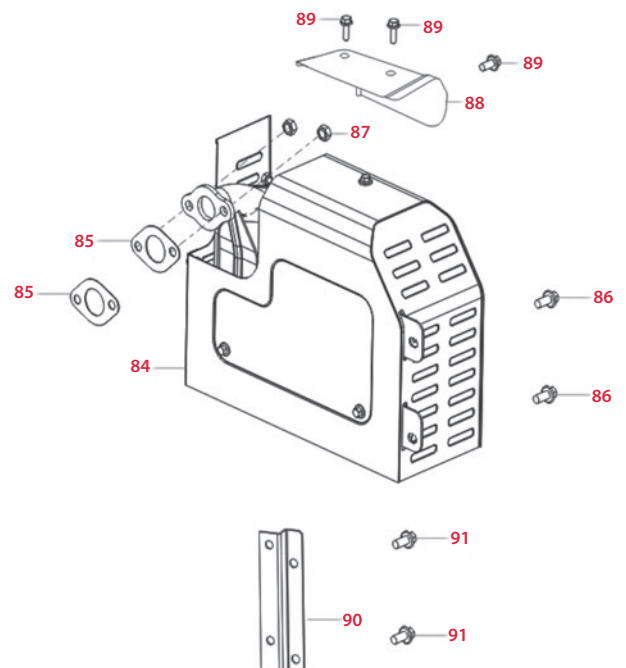


Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below left)			
82	JMRT1429	17100-Z101710-0001	Air cleaner assembly
83	NS	90305-0600-31	Nut



82

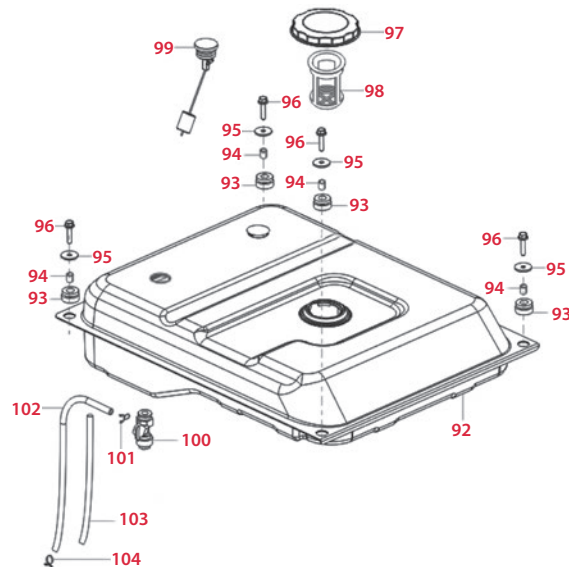
Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below right)			
84	JMRT1430	18100-Y9X0110-0000	Muffler assembly
85	JMRT1215	18001-Z080110-0000	Exhaust outlet gasket
86	NS	90001-0816-03	Bolt
87	NS	90303-0800-33	Nut
88	NS	18013-Y9X0120-0000	Muffler outer cover
89	NS	90022-0612-03	Bolt
90	NS	18030-YA40110-H300	Muffler bracket
91	NS	90001-0816-03	



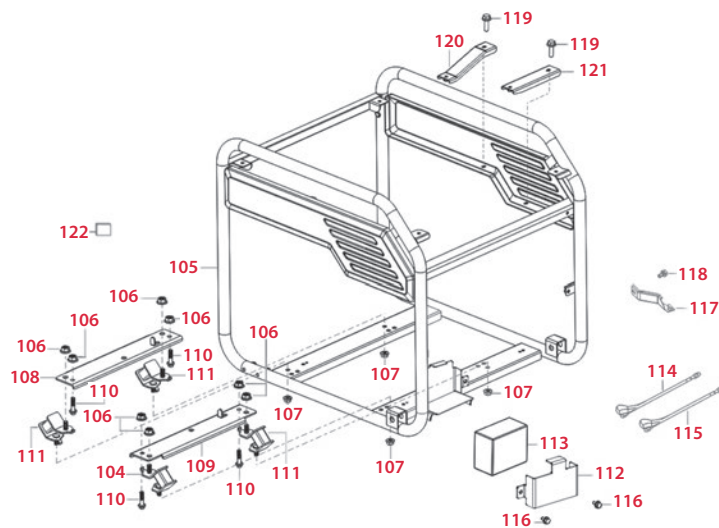
R6250iD Open Frame Generator

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Item	JAK Max Part No.	RATC Part No.	Description
Fuel Tank (right)			
92	JMRT1431	16620-Y9X0220-H60P	Fuel tank
93	NS	16601-Y020120-0000	Fuel tank rubber sleeve
94	NS	90683-Y020110-0000	Bush
95	NS	90408-Y020110-0000	Flat washer
96	NS	90007-0625-A3	Bolt
97	NS	16730-Y020130-H700	Fuel tank cover
98	NS	16652-Y020120-0000	Fuel strainer
99	NS	37200-Y2V0110-0000	Oil level assembly
100	NS	16750-YA40210-0000	Fuel cock assembly
101	NS	90740-Z010210-0000	Collar
102	NS	90686-Z080610-0000	Fuel tube
103	NS	30431-Y030110-0000	Rubber jacket
104	NS	90685-Z030220-0000	Clamp



Item	JAK Max Part No.	RATC Part No.	Description
Engine Frame (right)			
105	NS	51100-YA40110-GQL0	Engine frame assembly
106	NS	90306-1000-31	Nut
107	NS	90305-0800-31	Nut
108	NS	51002-YA40210-GQ00	Engine fixed bottom plate
109	NS	51002-YA40110-GQ00	Engine fixed bottom plate
110	NS	90002-1040-01	Bolt
111	NS	51005HY9X0110-0000	Engine frame cushion
112	NS	31142-YA60110-GQ00	Battery cushion
113	JMRT1314	31110-Y030610-00A0	Battery
114	NS	31114HY130410-0000	Cathode wire
115	NS	31112HY130310-0000	Anode wire
116	NS	90001-0612-03	Bolt
117	NS	17003-YA40110-0100	Air cleaner support
118	NS	90001-0612-01	Bolt
119	NS	90001-0612-03	Bolt
120	NS	30081HYA40210-GQ00	Inverter assembling frame
121	NS	30081HYA40110-GQ00	Inverter assembling frame
122	NS	75004-Y9X0110-0000	Rubber cushion

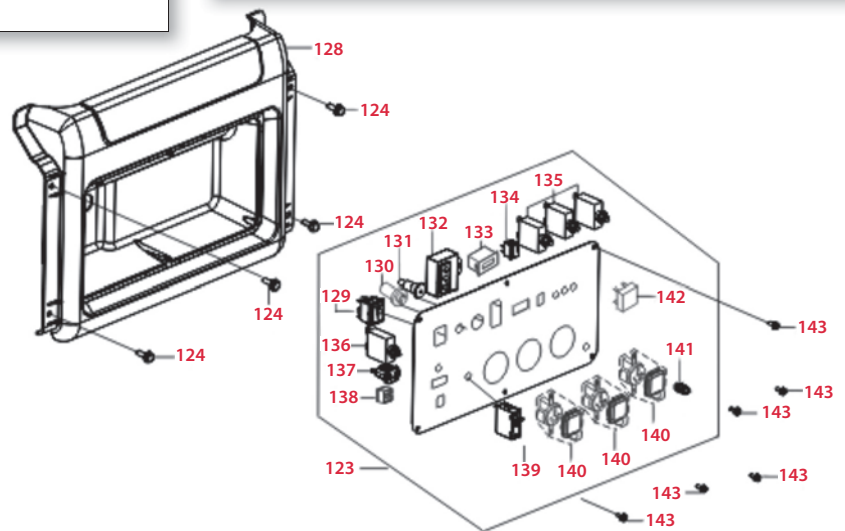
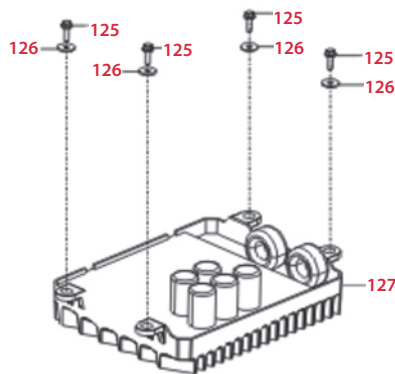


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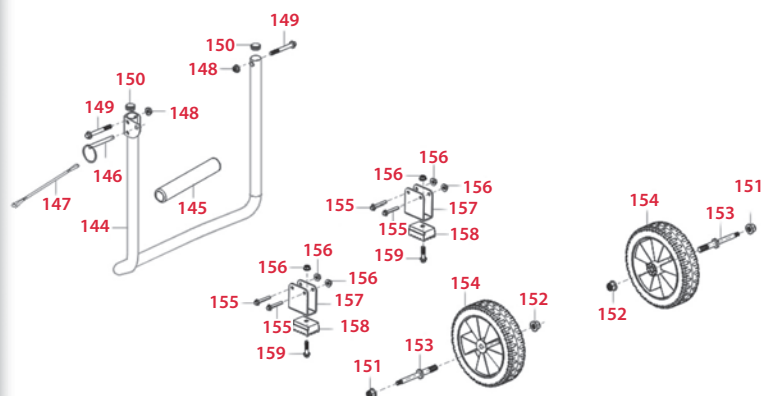
R6250iD Open Frame Generator

Item	JAK Max Part No.	RATO Part No.	Description
Control Panel Subassembly (below)			
123	NS	35610-YB21610-H300	Control panel subassembly
124	NS	90007-0616-A3	Bolt
125	NS	90001-0620-01	Bolt
126	NS	90408-Y020310-0000	Flat washer
127	NS	30043-YB20610-0000	Invertor
128	NS	35680-Y9X0110-Q200	Panel seat
129	NS	35160-Y210110-0000	Switch subassembly
130	NS	35646-Y2V0210-0000	Resetting button
131	NS	16080-YB30110-0000	Choke zip combination
132	NS	30700-Y2P0120-0000	Ignitor
133	NS	35632-Y130110-0000	Timer

Item	JAK Max Part No.	RATO Part No.	Description
Control Panel Subassembly - continued (below)			
134	NS	35160-Y0G0110-0000	Switch subassembly
135	NS	31234-YB30110-0000	Overcurrent protector
136	NS	31234-Y9H0110-0000	Overcurrent protector
137	NS	35619-Y450110-0000	D.C socket subassembly
138	NS	35619-Y2V0310-0000	D.C socket subassembly
139	NS	35645-Y2A0210-0000	Single-pole circuit breaker
140	NS	35614-Y020510-0000	Power supply socket subassembly
141	NS	35629-Y090110-0000	Grounding terminal subassembly
142	NS	35621-Y020110-0000	Rectification bridge
143	NS	90255-0510-53	



Item	JAK Max Part No.	RATO Part No.	Description
Front Wheel Subassembly (right)			
144	NS	54110-Y9X0210-GQ00	Handle tube assembly
145	NS	54101-Y9P0110-0000	Handle rubber sleeve
146	NS	90504-Y5R0110-0000	Pin roll
147	NS	90793-Y910110-0000	Sling
148	NS	90341-Y2D0310-0000	Nut
149	NS	90001-0875-01	
150	NS	90722-Y9X0110-0000	End plug
151	NS	90310-0800-31	Nut
152	NS	90332-Y110610-0000	Nut
153	NS	44020-Y5D0110-0600	Front wheel shaft
154	NS	44110-Y5R0110-0000	Front wheel
155	NS	90001-0640-01	Bolt
156	NS	90305-0600-31	Nut
157	NS	51016-Y9P0110-GQ00	Engine frame shock absorption support
158	NS	51014HY3Y0110-0000	Engine frame shock absorption seat
159	NS	90001-0625-01	Bolt



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

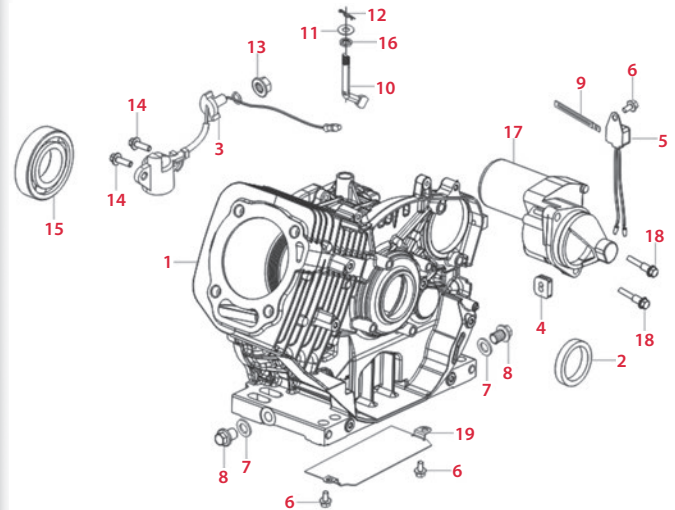
- Strong stable output, reliable long-time performance.
- Low fuel consumption, low carbon exhaustion.
- Convenient recoil and electric start.
- 3-in-1 digital meter.
- Wheels & handle for easy movement.
- Includes RCD switch and 32 amp IP66 plug.



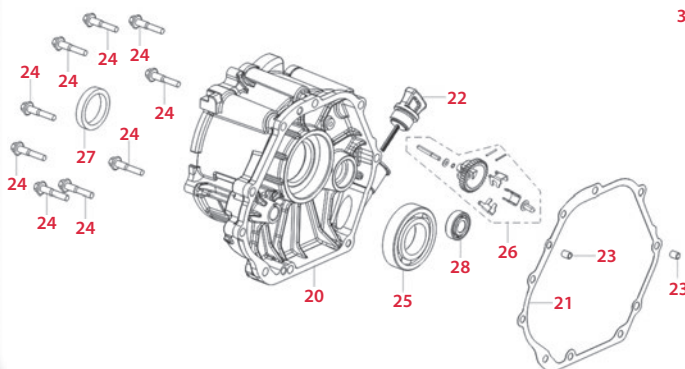
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R8500D-3 Industrial Generator

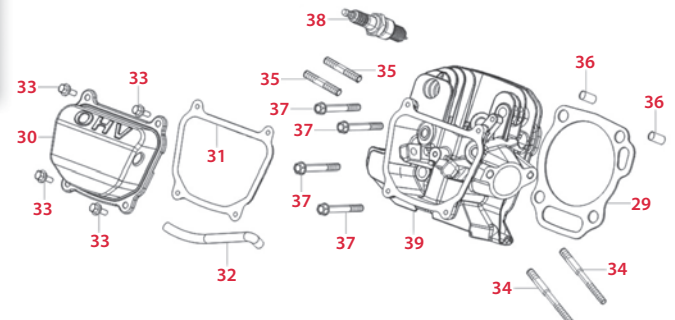
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase & Governor Gear Assembly (right)			
1	NS	11310-Z0D0110-0B00	Crankcase subassembly
2	NS	90682-Z0J0110-0000	Oil seal
3	NS	37060-Z080120-0000	Engine oil sensor
4	NS	28101-Z080110-0000	Rubber plug
5	NS	37050-Z010310-0000	Oil protector
6	NS	90001-0612-01	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



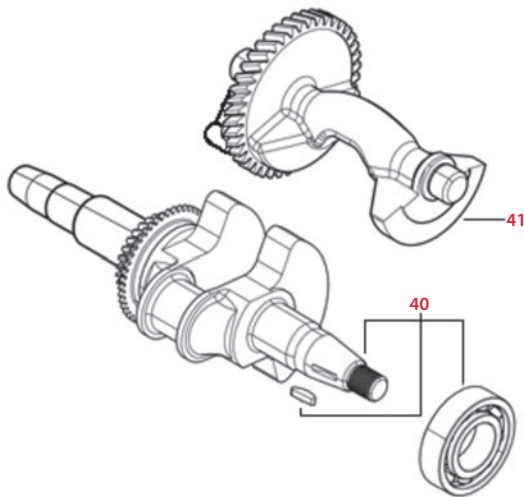
Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below right)			
29	NS	12131-Z0D0110-0000	Cylinder head gasket
30	NS	12410-Z0J0210-0000	Cylinder head cover subassembly
31	NS	12004-Z0J0510-0000	Cylinder head cover gasket
32	NS	17004-Z0D0110-0000	Breather tube
33	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



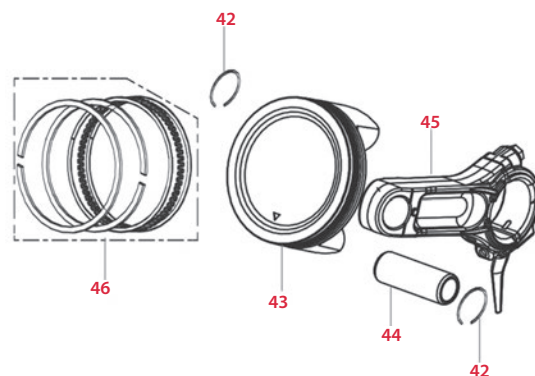
R8500D-3 Industrial Generator

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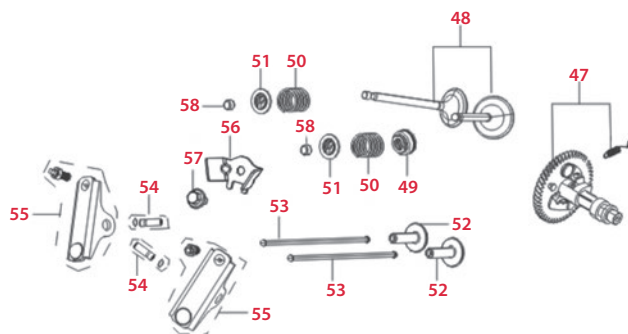
Item	JAK Max Part No.	RATC Part No.	Description
Crankshaft (below left)			
40	NS	13300-Z0D0110-CLTM	Crankshaft assembly
41	NS	13401-Z0D0110-0000	Balancing shaft



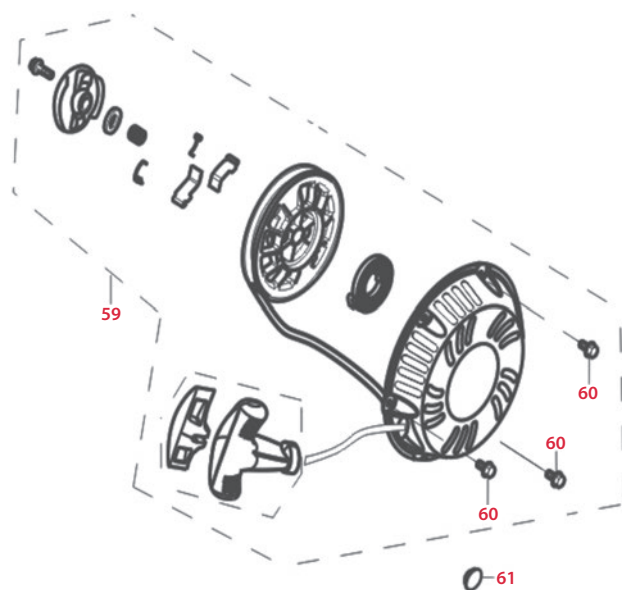
Item	JAK Max Part No.	RATC Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (below right)			
42	NS	13122-Z100110-0000	Piston pin clip
43	NS	13111-Z0D0110-0009	Piston
44	NS	13121-Z0D0110-0000	Piston pin
45	NS	13010-Z0D0110-0000	Connecting rod
46	NS	13200-Z0D0110-0009	Piston ring assembly



Item	JAK Max Part No.	RATC 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



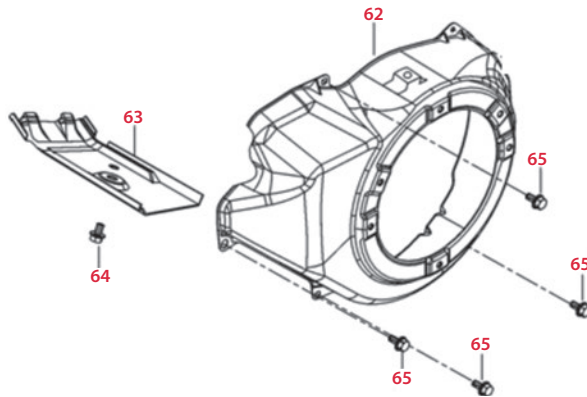
Item	JAK Max Part No.	RATC Part No.	Description
Starter Recoil (below right)			
59	NS	28200-Z101210-H700	Starter Recoil assembly
60	NS	90001-0610-01	Bolt
61	NS	28261-Z980110-0000	



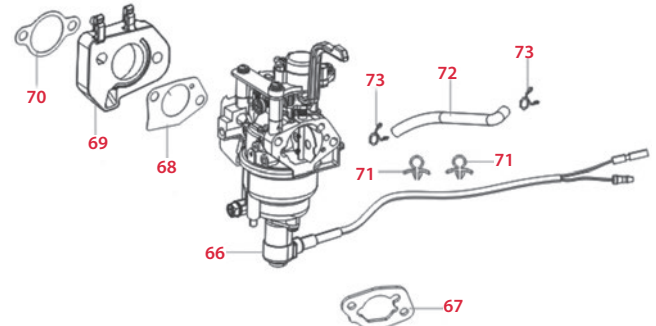
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R8500D-3 Industrial Generator

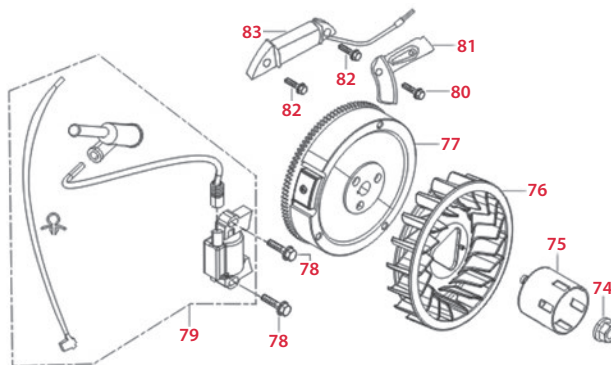
Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (below left)			
62	NS	28110-Z710210-Y100	Shroud
63	NS	19304-Z100210-0000	Cylinder body shroud
64	NS	90001-0612-01	Bolt
65	NS	90001-0612-01	Bolt



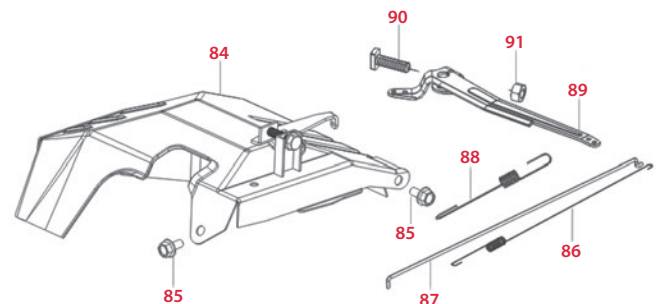
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below right)			
66	NS	16100-Z0D0110-0009	Carburettor assembly
67	NS	17001-Z0D0110-0000	Air cleaner gasket
68	NS	16001-Z100110-0000	Carburettor gasket
69	NS	16003-Z0D0110-0000	Carburettor insulator plate
70	NS	17002-Z0D0110-0000	Inlet 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



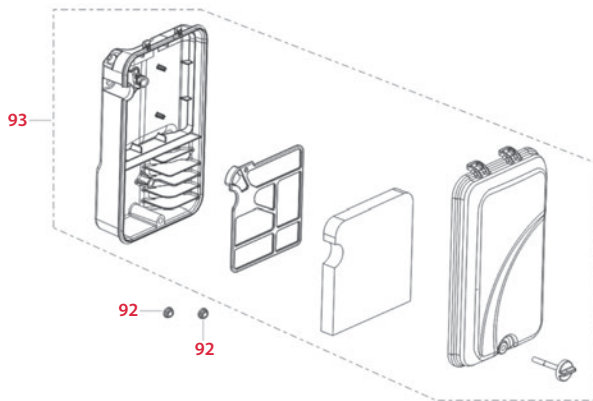
Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (below right)			
84	NS	16520-Z0D0110-0000	Throttle control assembly
85	NS	90001-0612-01	Bolt
86	NS	16012-Z080110-0000	Throttle valve returning spring
87	NS	16062-Z100110-0000	Governor rod
88	NS	16063-Z0D0110-0000	Governor spring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



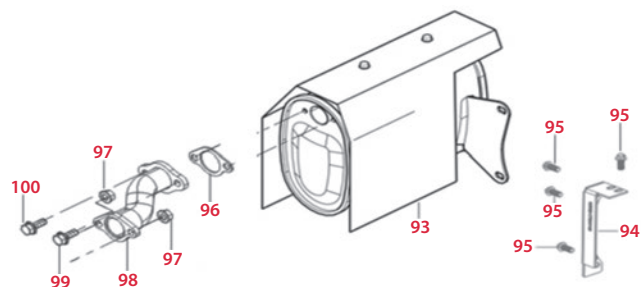
R8500D-3 Industrial Generator

*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

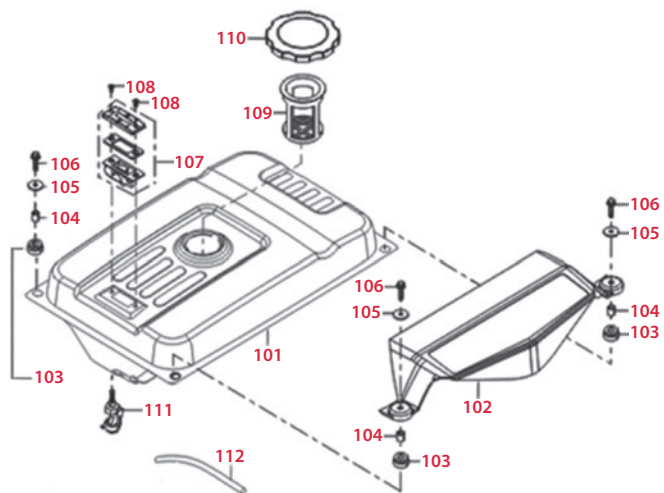
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below left)			
92	NS	90305-0600-31	Nut
93	NS	17100-Z0D0110-0009	Air cleaner



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



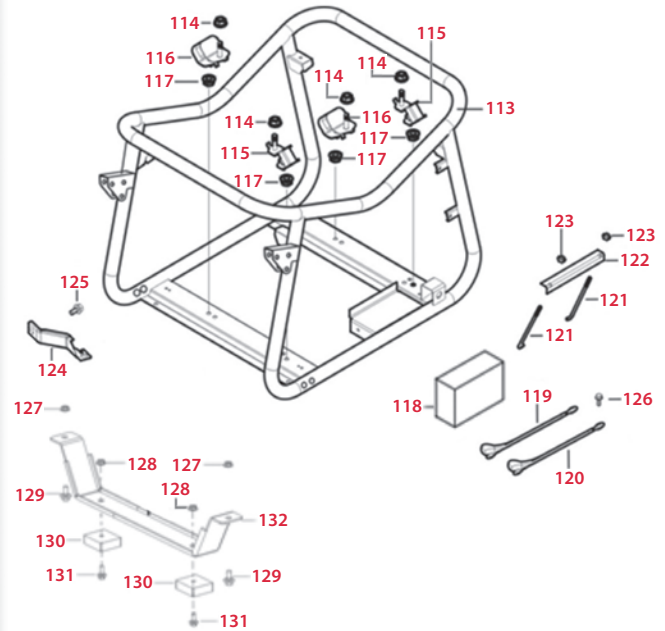
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (right)			
101	NS	16620-Y470220-Y100	Fuel tank
102	NS	51025-Y470110-Q200	Decorative frame
103	NS	16601-Y020120-0000	Fuel tank rubber sleeve
104	NS	90683-Y020110-0000	Bush
105	NS	90408-Y020110-0000	Flat washer
106	NS	90007-0625-A3	Bolt
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



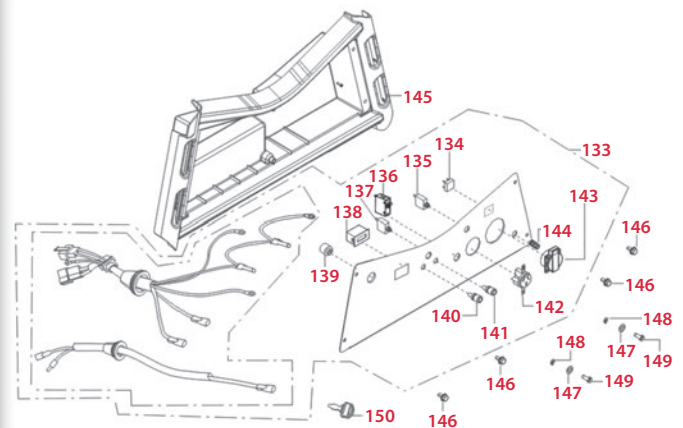
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

R8500D-3 Industrial Generator

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



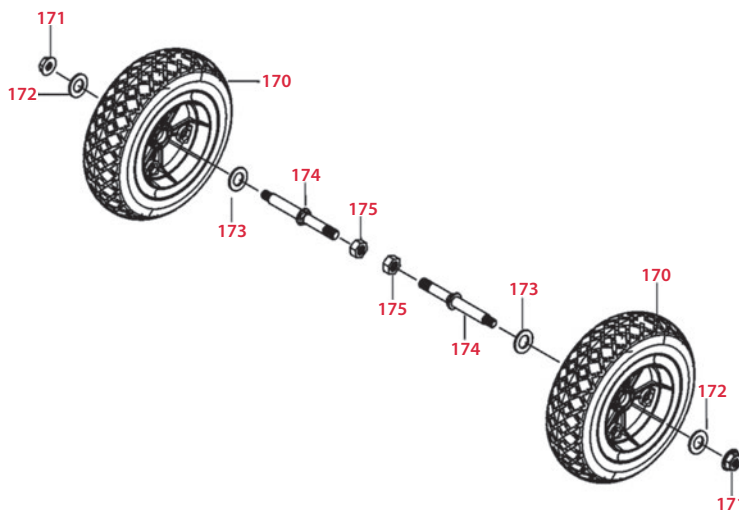
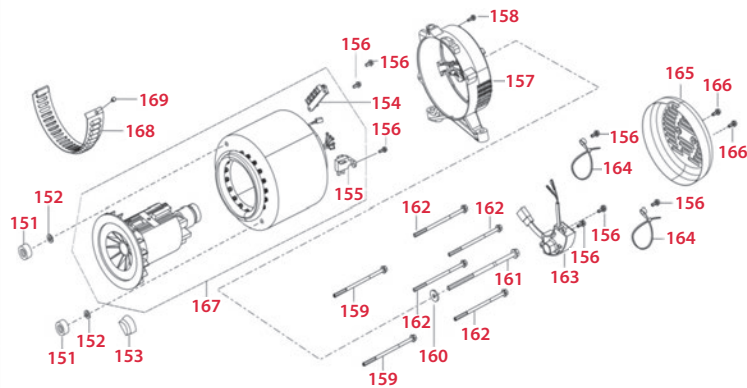
Item	JAK Max Part No.	RATO Part No.	Description
Control Panel Subassembly (right)			
133	NS	35610-YE70110-H300	Control panel subassembly
134	NS	35621-Y020110-0000	Rectification bridge
135	NS	31234-YB30110-0000	Overcurrent protector
136	NS	35645-Y5W0110-0000	Single pole circuit breaker
137	NS	31234-Y9H0110-0000	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



R8500D-3 Industrial Generator

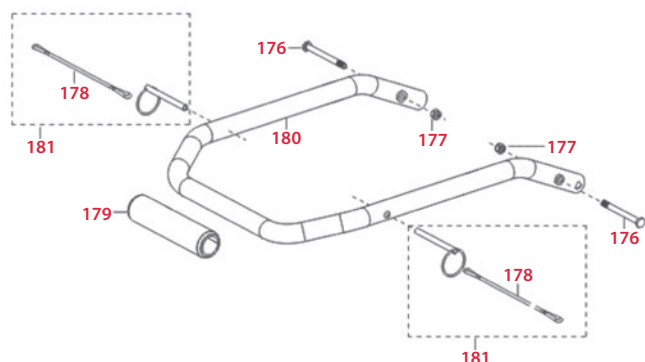
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

Item	JAK Max Part No.	RATO Part No.	Description
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



R8750ID Open Frame Inverter Generator



Product Information

The RATC R8750ID open frame generator is the perfect option for portable power.

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

Features

- Convenient recoil and electric start.
- Wheels and handle for easy movement.
- Precisely controlled ignition.
- Smart circuit protection, reliable safety.
- Accessible, easy operation on the front panel.
- Lightweight, high power output.
- Low engine oil alarm and automatic shutdown to protect engine.



SPECIFICATIONS

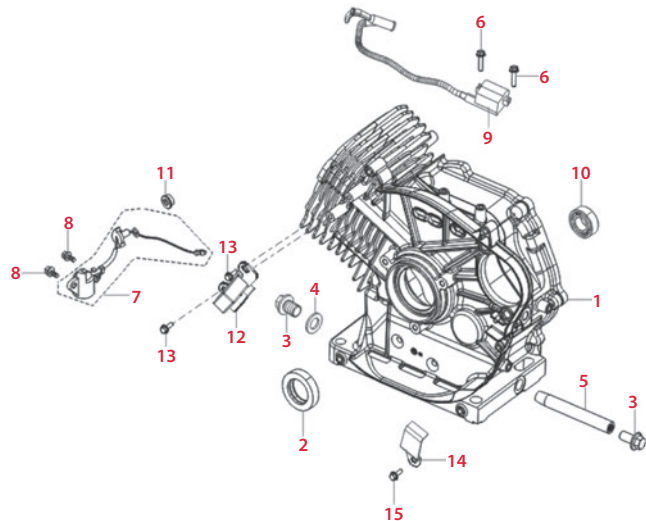
R8750ID

Engine model	R420D
Certification	EPA 3, EMC
Engine type	Air cooled, 4 stroke, OHV, single cylinder
Starting system	Recoil / Electric start with LI battery
Displacement	420cc
Bore x stroke	90 x 66mm
Compression ratio	8 : 1
Rated frequency	50Hz
Rated voltage	220v
Rated power	7.8kw
Max. power	8.75kw
DC output	12v / 8.3A
Fuel tank capacity	15 litres
Full load continuous running time	6.5 hours
1/2 load continuous running time	10 hours
Noise (7m)	84db
Dimensions (L x W x H mm)	605 x 514 x 537
Net weight	65kg
Multi function meter	yes
L5-20R 120V 20A duplex	2 x GFCI
Breaker	3
USB device	yes
Receptacle cover	yes
Spark arrestor	yes
Oil drain tube	yes
Lithium battery	1.6Ah
Wheel kit	8" wheels & handle, come standard

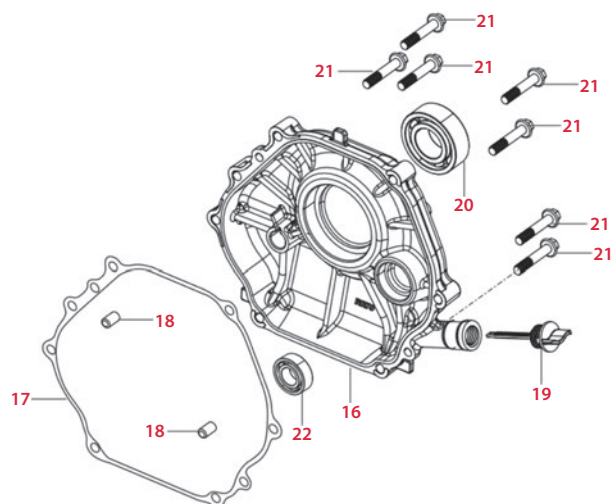
R8750ID Open Frame Inverter Generator

*NS - Not Stocked by JAK Max
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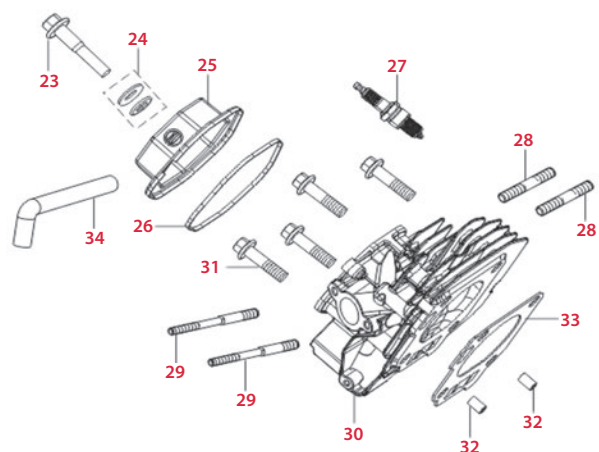
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase (right)			
1	NS	11310-Z980120-0809	Crankcase subassembly
2	JMRT1278	90682-Z100110-0000	Oil seal
3	JMRT1177	11007-Z010110-0000	Drain plug bolt
4	NS	90408-Z010510-0000	Flat washer
5	NS	11011-Z980110-0000	Oil drain tube
6	NS	90001-0520-01	Bolt
7	JMRT1280	37060-Z080120-0000	Engine oil sensor
8	NS	90001-0616-01	Bolt
9	JMRT1281	30400-Z980110-0001	Ignition coil
10	JMRT1282	90548-0202-CL	Deep groove ball bearing
11	NS	90305-Z010210-01	Nut
12	NS	30130-Z980120-0000	
13	NS	90001-0516-01	Bolt
14	NS	30002-Z980110-0000	Magneto wiring clamp
15	NS	90001-0510-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly & Governor Gear Assembly			
16	NS	11411-Z980110-0800	Crankcase cover
17	JMRT1283	11001-Z100120-0000	Crankcase gasket
18	NS	90502-0812-00	Pin
19	NS	15010-Z080130-Q500	Oil dipstick subassembly
20	JMRT1284	90547-0207-CL	Deep groove ball bearing
21	NS	90001-0840-01	Bolt
22	NS	90548-0202-CL	Deep groove ball bearing



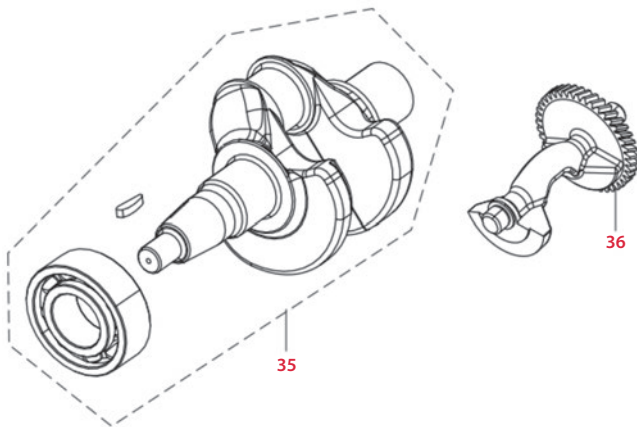
Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (right)			
23	NS	12032-Z080110-0100	Cylinder head bolt
24	NS	12034-Z080110-0099	
25	NS	12410-Z580110-0199	Cylinder head cover subassembly
26	JMRT1276	12004-Z580110-0099	Cylinder head cover gasket
27	BPR6ES/ RN9YC	30010-Z010110-0000	Spark plug
28	NS	90203-Z010110-0000	Bolt
29	NS	90204-Z100410-0000	Bolt
30	NS	12140-Z190230-0899	Cylinder head subassembly
31	NS	12003-Z080110-0000	Cylinder head bolt
32	NS	90502-1220-00	Pin
33	JMRT1277	12131-Z190110-LS00	Cylinder head gasket
34	NS	17004HZ980110-0000	Breather tube



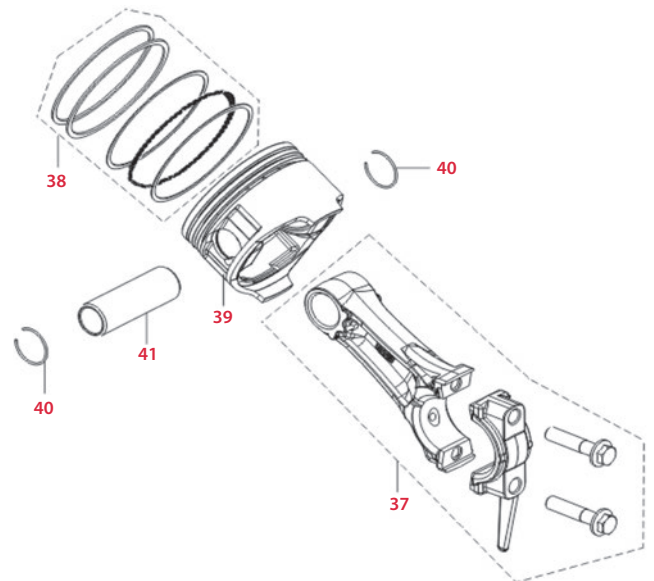
*NS - Not Stocked by JAK Max
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R8750ID Open Frame Inverter Generator

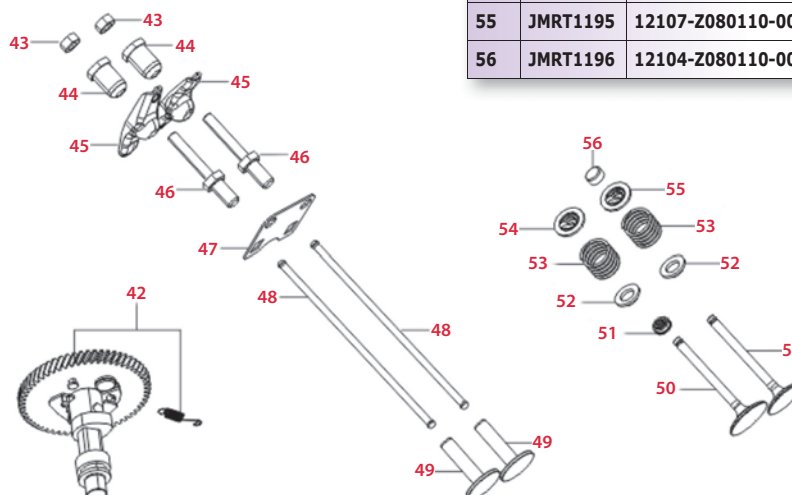
Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below left)			
35	JMRT1285	13300-Z980110-RB00	Crankshaft assembly
36	NS	13400-Z190320-0000	Balancing shaft assembly



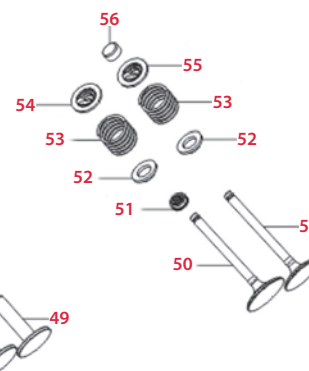
Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (below right)			
37	JMRT1286	13010-Z190120-0000	Connecting rod
38	JMRT1287	13200-Z190210-0099	Piston ring set
39	JMRT1288	13111-Z190310-0099	Piston
40	JMRT1183	13122-Z100110-0000	Piston pin clip
41	JMRT1289	13121-Z100110-0000	Piston pin



Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (below)			
42	JMRT1290	14200-Z190510-0099	Camshaft assembly
43	JMRT1029	14312-Z010110-0000	Valve lock nut
44	JMRT1028	14314-Z010110-0000	Valve adjusting nut
45	JMRT1291	14311-Z080110-0000	Valve rocker
46	JMRT1026	14313-Z010110-0000	Rocker shaft bolt
47	JMRT1292	14090-Z080110-0000	Lifter stopper plate subassembly
48	JMRT1293	14070-Z100110-0000	Valve lifter subassembly
49	JMRT1294	14081-Z080110-0000	Valve tappet
50	JMRT1295	12110-Z190110-0099	Valve set



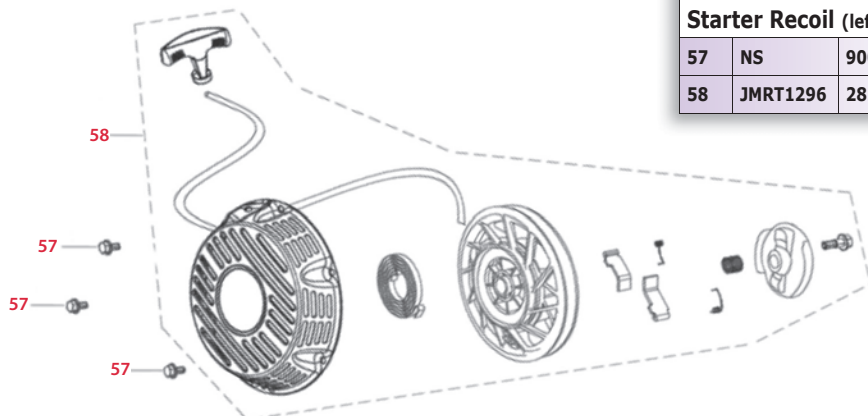
Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
51	JMRT1191	12101-Z080110-0000	Seal guide
52	JMRT1192	12105-Z080110-0000	Valve spring retainer
53	JMRT1193	12103-Z080110-0000	Valve spring
54	JMRT1194	12112-Z080110-0000	Valve spring seat
55	JMRT1195	12107-Z080110-0000	Exhaust valve retainer
56	JMRT1196	12104-Z080110-0000	Valve rotator



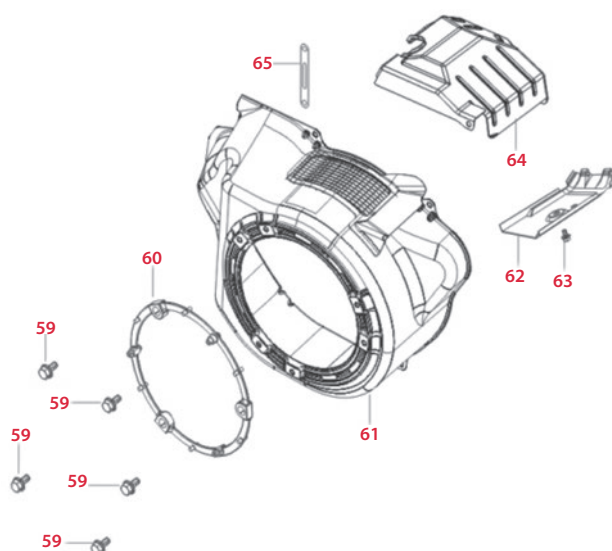
R8750ID Open Frame Inverter Generator

*NS - Not Stocked by JAK Max
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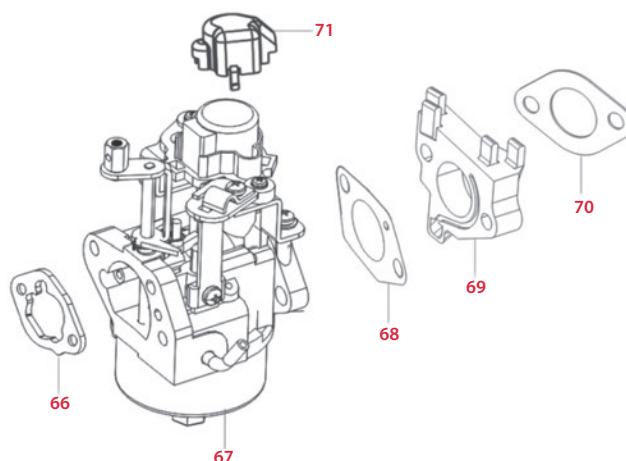
Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (left)			
57	NS	90001-0620-01	Bolt
58	JMRT1296	28200-Z980120-RU00	Starter Recoil assembly



Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (right)			
59	NS	90001-0612-01	Bolt
60	NS	28261-Z980110-0000	
61	NS	28110-Z980110-RU00	Shroud
62	NS	19304-Z100210-0000	Cylinder body shroud
63	NS	90001-0610-01	Bolt
64	NS	19305-Z980120-0000	Cylinder body shroud 2
65	NS	90684-Z030120-0000	Clip



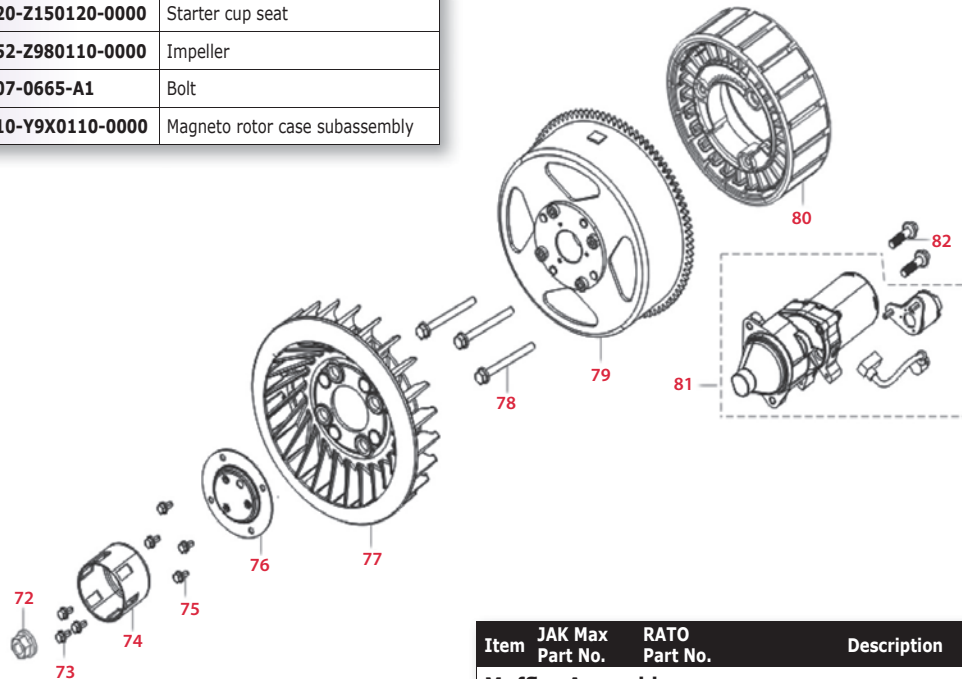
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (right)			
66	JMRT1212	17001-Z080210-0000	Air cleaner gasket
67	JMRT1297	16100-Z980110-0309	Carburettor assembly
68	JMRT1205	16001-Z100110-0000	Carburettor gasket
69	JMRT1298	16003-Z980110-0000	Carburettor insulator plate
70	JMRT1299	17002-Z100110-0000	Inlet gasket
71	JMRT1255	14411-Y2V0110-0000	Cap



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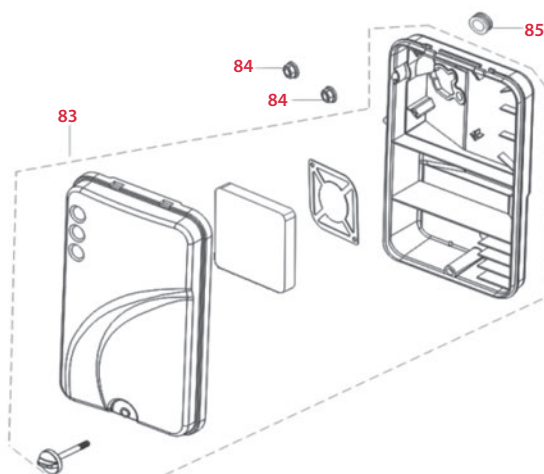
R8750ID Open Frame Inverter Generator

Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (below)			
72	NS	13501-Z080110-0000	Flywheel nut
73	NS	90001-0612-01	Bolt
74	JMRT1301	28002-Z980110-0000	Starter pulley
75	NS	90001-0612-01	Bolt
76	NS	28020-Z150120-0000	Starter cup seat
77	JMRT1302	19352-Z980110-0000	Impeller
78	NS	90007-0665-A1	Bolt
79	JMRT1303	30110-Y9X0110-0000	Magneto rotor case subassembly

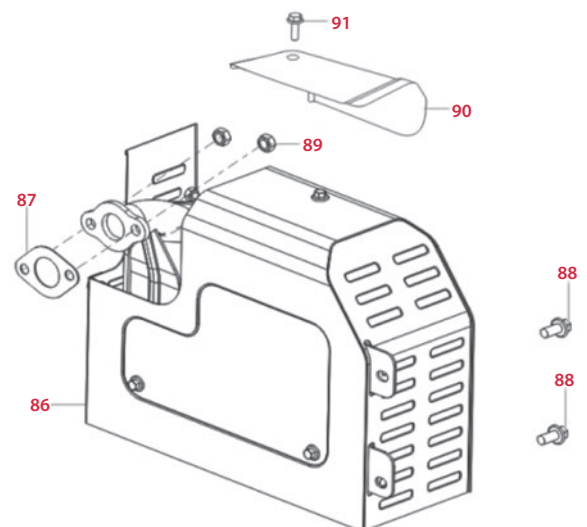


Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil - cont'd			
80	JMRT1304	30120-YB30210-0000	Magneto stator subassembly
81	JMRT1305	30300-Z980120-0000	Starter motor
82	NS	90001-0825-01	Bolt

Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below left)			
83	JMRT1300	17000-Z980110-0009	Air cleaner
84	JMRT1321	90305-0600-31	Nut
85	NS	90722-Z950110-00A0	Plug



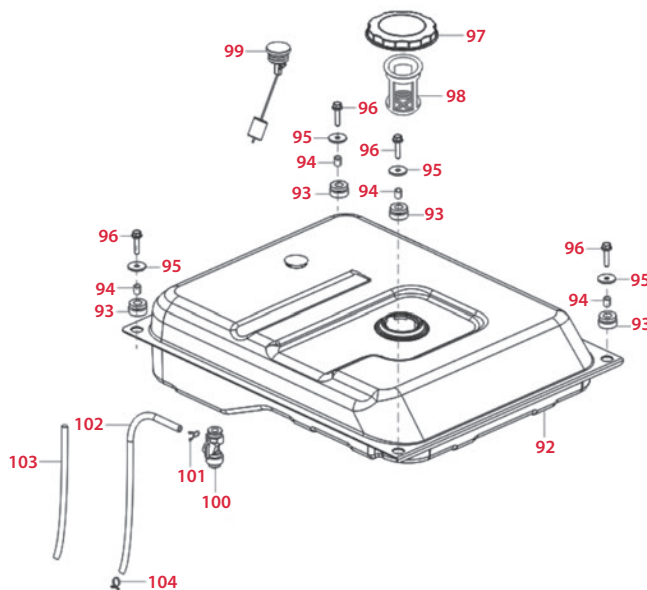
Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below right)			
86	JMRT1306	18100-Y9X0110-H300	Muffler assembly
87	NS	18001-Z080110-0000	Exhaust outlet gasket
88	NS	90001-0816-01	Bolt
89	NS	90303-0800-31	Nut
90	NS	18013-Y9X0120-0000	Muffler outer cover
91	NS	90022-0612-01	Bolt



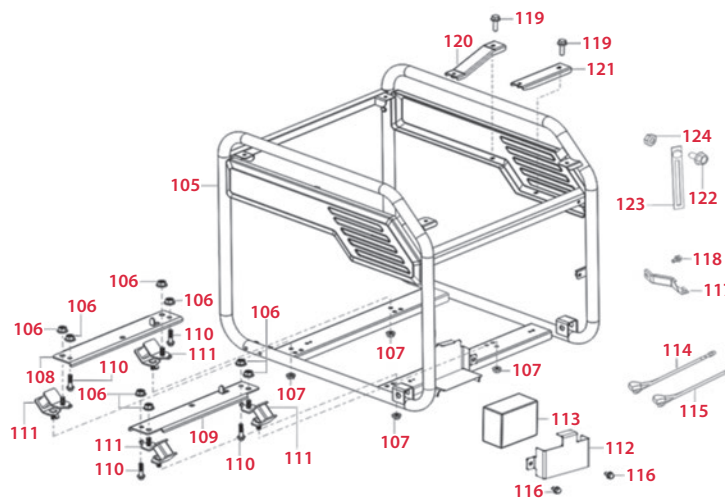
R8750ID Open Frame Inverter Generator

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Item	JAK Max Part No.	RATC Part No.	Description
Fuel Tank Assembly (right)			
92	NS	16620-Y9X0220-H600	Fuel tank
93	NS	16601-Y020120-0000	Fuel tank rubber sleeve
94	NS	90683-Y020110-0000	Bush
95	NS	90408-Y020310-0000	Flat washer
96	NS	90007-0625-A1	Bolt
97	JMRT1308	16730-Y020130-H700	Fuel tank cap
98	JMRT1309	16652-Y020120-0000	Fuel strainer
99	JMRT1310	37200-Y2V0110-0000	Oil level assembly
100	JMRT1311	16750-Y020210-0000	Fuel cock assembly
101	NS	90740-Z010210-0000	Collar
102	NS	90686-Z010710-0000	Fuel tube
103	NS	90698-Z300210-0000	Rubber jacket
104	NS	90685-Z030220-0000	Clamp



Item	JAK Max Part No.	RATC Part No.	Description
Engine Frame (right)			
105	JMRT1312	51100-Y9X0210-GQL0	Engine frame assembly
106	NS	90306-1000-31	Nut
107	NS	90305-0800-31	Nut
108	NS	51002-Y9X0110-GQ00	Engine fixed bottom plate
109	NS	51002-Y9X0210-GQ00	Engine fixed bottom plate
110	NS	90002-1040-01	Bolt
111	JMRT1313	51005HY9X0110-0000	Engine frame cushion
112	NS	31142-YA60110-GQ00	Battery clamp
113	JMRT1314	31110-Y030610-0000	Battery
114	NS	31114HY130410-0000	Cathode wire
115	NS	31112HY130310-0000	Anode wire
116	NS	90001-0612-01	Bolt
117	NS	17003-Y290110-0000	Air cleaner support
118	NS	90001-0612-01	Bolt
119	NS	90001-0612-01	Bolt
120	NS	30081HY9X0110-GQ00	Inverter assembling frame
121	NS	30081HY9X0210-GQ00	Inverter assembling frame
122	NS	90001-0608-01	Bolt
123	NS	90684-Z030120-0000	Clip
124	NS	90314-0600-31	Nut
	NS	75004-Y9X0110-0000	Rubber cushion

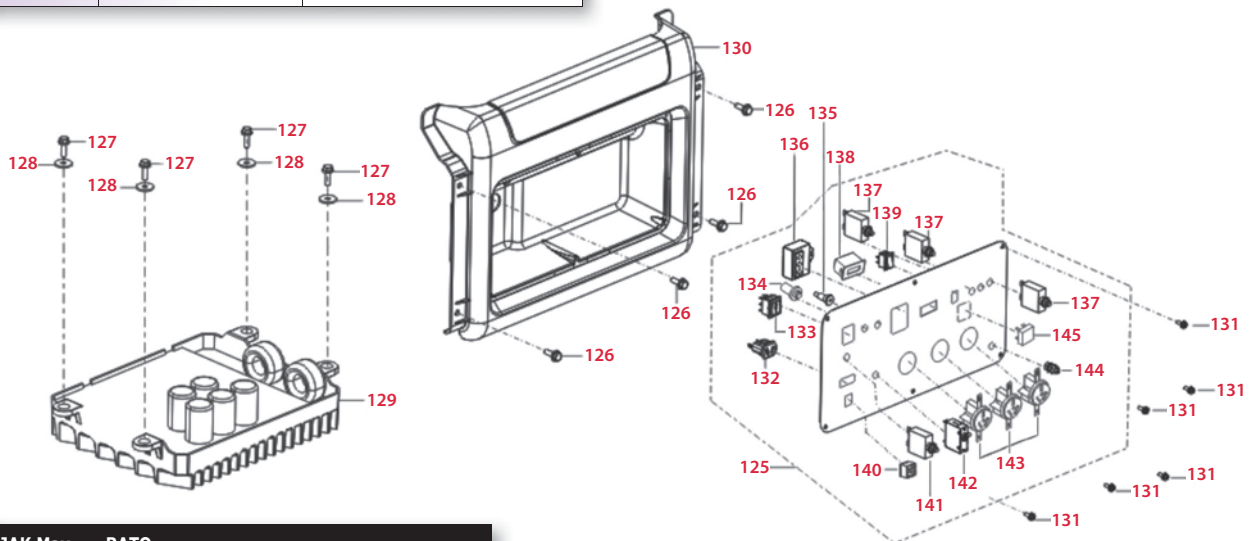


*NS - Not Stocked by JAK Max
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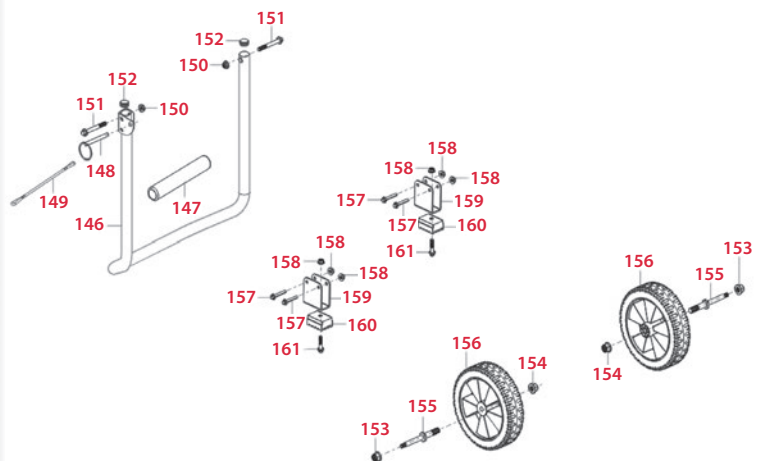
R8750ID Open Frame Inverter Generator

Item	JAK Max Part No.	RATO Part No.	Description
Control Panel Subassembly (below)			
125	NS	35610-YB32410-H300	Control panel subassembly
126	NS	90007-0614-A1	Bolt
127	NS	90001-0620-01	Bolt
128	NS	90408-Y020310-0000	Flat washer
129	NS	30043-YB30910-0000	Invertor
130	NS	35680-Y9X0110-Q200	Panel seat
131	NS	90255-0510-51	
132	NS	35619-Y2V0110-0000	DC socket subassembly
133	NS	35160-Y210110-0000	Switch subassembly
134	NS	35646-Y2V0210-0000	Resetting button
135	NS	16080-YB30110-0000	Choke zip combination

Item	JAK Max Part No.	RATO Part No.	Description
Control Panel Subassembly - continued (below)			
136	NS	30700-Y2P0120-0000	Ignitor
137	NS	31234-YB30110-0000	Overcurrent protector
138	NS	35632-Y130110-0000	Timer
139	NS	35160-Y0G0110-0000	Switch subassembly
140	NS	35619-Y9T0110-0000	D.C socket subassembly
141	NS	31234-Y9H0110-0000	Overcurrent protector
142	NS	35645-Y3H0110-0000	Single-pole circuit breaker
143	NS	35614-Y020510-0000	Power supply socket subassembly
144	NS	35629-Y090110-0000	Grounding terminal subassembly
145	NS	35621-Y020110-0000	Rectification bridge



Item	JAK Max Part No.	RATO Part No.	Description
Front Wheel Assembly (right)			
146	NS	54110-Y9X0210-GQ00	Handle tube assembly
147	NS	54101-Y9P0110-0000	Handle rubber sleeve
148	NS	90504-Y5R0110-0000	Pin roll
149	NS	90793-Y910110-0000	Sling
150	NS	90341-Y2D0310-0000	Nut
151	NS	90001-0875-01	
152	NS	90722-Y9X0110-0000	End plug
153	NS	90310-0800-31	Nut
154	NS	90332-Y110610-0000	Nut
155	JMRT1315	44020-Y5D0110-0600	Front wheel shaft
156	JMRT1316	44110-Y5R0110-0000	Front wheel
157	NS	90001-0640-01	Bolt
158	JMRT1321	90305-0600-31	Nut
159	JMRT1317	51016-Y9P0110-GQ00	Engine frame shock absorption support
160	JMRT1318	51014HY3Y0110-0000	Engine frame shock absorption seat
161	NS	90001-0625-01	Bolt



RT25ZB20-1.2Q Portable Transfer Pump

Product Information

The RATO RT25ZB20-1.2Q 1" 3hp, 4 stroke OHV petrol transfer pump is the perfect option for lightweight, portable power.

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



SPECIFICATIONS

R8750ID

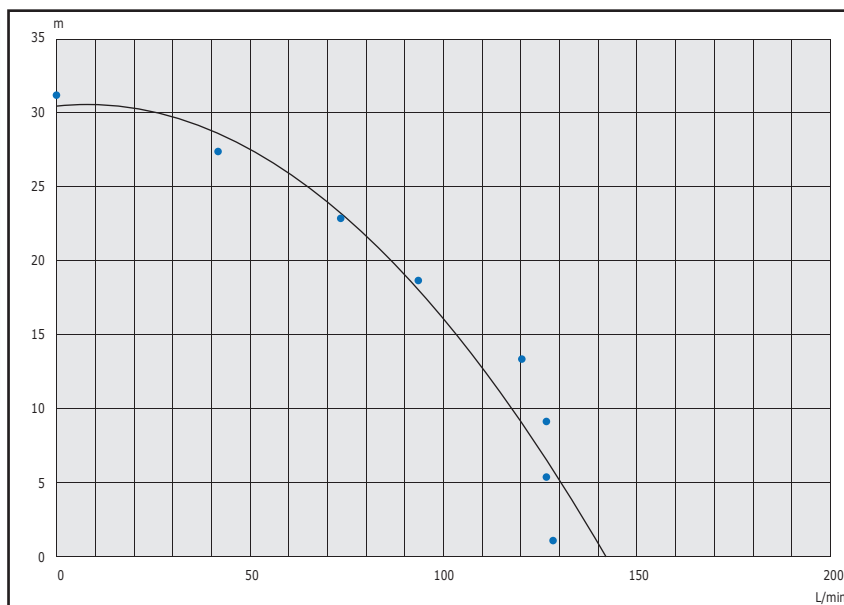
Engine model	RS100 / 3hp
Engine type	Single cylinder, 4 stroke (OHV)
Starting system	Recoil start
Bore x stroke	52 x 46mm
Displacement	97.7ml
Compression ratio	5.6 : 1
Net power	1.4kw / 3600rpm
Fuel consumption	≤450 (g/kw-h)
Net torque	3N.m / 2500rpm
Pump set	2" circular type
Suction port diameter	25mm (1")
Discharge port diameter	25mm (1")
Suction head lift	6m
Total head lift	28m
Discharge capacity	8m ³ /h / 133 litres per minute
Dimensions (L x W x H mm)	385 x 285 x 375
Net weight	12.5kg

Features

- 3hp air cooled RATO engine.
- Cast iron volute and impeller with a carbon ceramic seal.



Unload Speed	Loading Speed	Suction Head Lift	Discharge Capacity (m ³ /h)	Discharge Capacity (L/min)	Total Head Lift (M)	Test Envir. Temp (C°)	Humidity at Outlet	Pressure at Outlet
3820	3720	8.4	7.7	128.33	1.10	16.5	100	10.1
			7.6	126.67	5.35	16.5	100	49
			7.6	126.67	9.11	16.5	100	83.4
			7.2	120.00	13.32	16.4	100	122
			5.6	93.33	18.73	16.5	100	171.5
			4.4	73.33	22.94	16.5	100	210.1
			2.5	41.67	27.44	16.5	100	251.3
			0	0.00	31.16	16.5	100	285.4

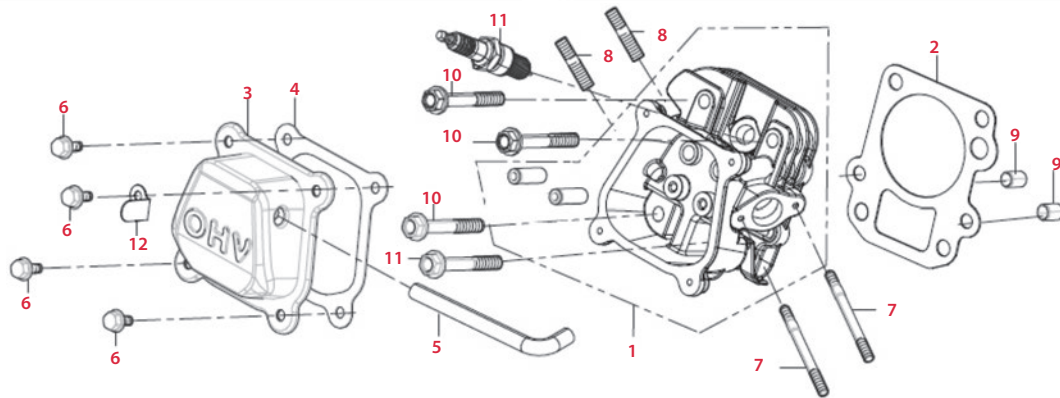


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RT25ZB20-1.2Q Portable Transfer Pump

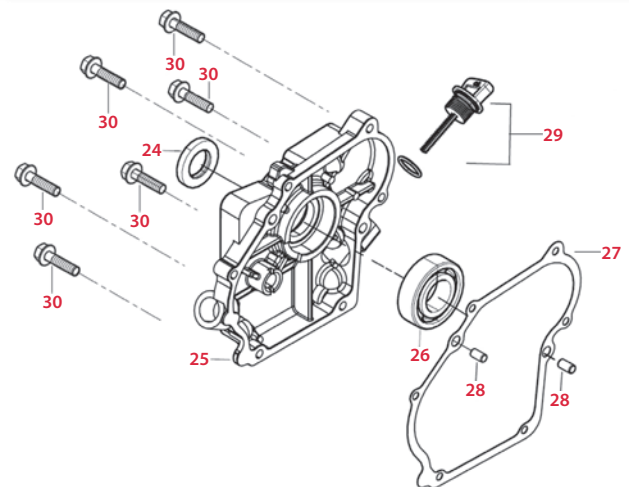
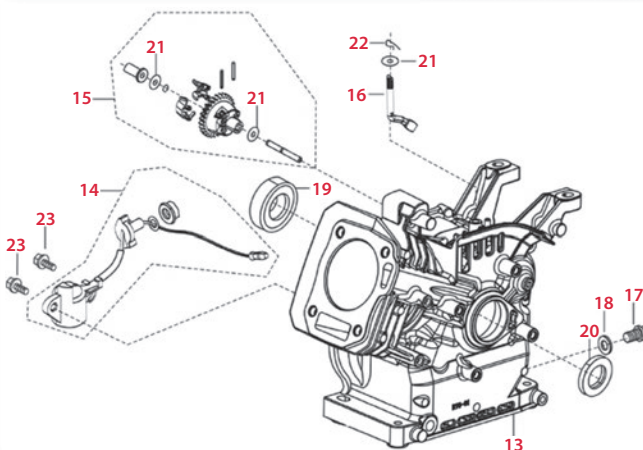
Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
1	NS	12140-Z210110-0B00	Cylinder head subassembly
2	JMRT1337	12131-Z210110-0000	Cylinder head gasket
3	NS	12410-Z300120-0000	Cylinder head cover subassembly
4	JMRT1002	12004-Z010110-0000	Cylinder head cover gasket
5	NS	17004-Z510110-0000	Breather tube
6	NS	90001-0612-01	Bolt

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
7	NS	90204-Z010210-0000	Stud
8	NS	90203-Z010110-0000	Stud
9	NS	90502-0814-00	Pin
10	NS	12003-Z510110-0000	Cylinder head bolt
11	BPR6ES/ RN9YC	30010-Z450210-0000	Spark plug
12	NS	30006-Z510110-0000	High tension line block



Item	JAK Max Part No.	RATO Part No.	Description
Crankcase & Governor Gear Assembly (below left)			
13	NS	11310-Z210210-0B00	Crankcase subassembly
14	NS	37060-Z510110-0000	
15	NS	16400-Z210110-0000	Governor gear assembly
16	NS	16061-Z510110-0000	Governor arm
17	NS	11007-Z010110-0000	Drain plug bolt
18	NS	90408-Z010110-0000	Flat washer
19	NS	90548-0203-00	Bearing
20	JMRT1338	90682-Z510110-0000	Oil seal
21	NS	90575-0612-06	Circlip
22	NS	90501-Z010110-0000	Pin
23	NS	90001-0614-01	Bolt

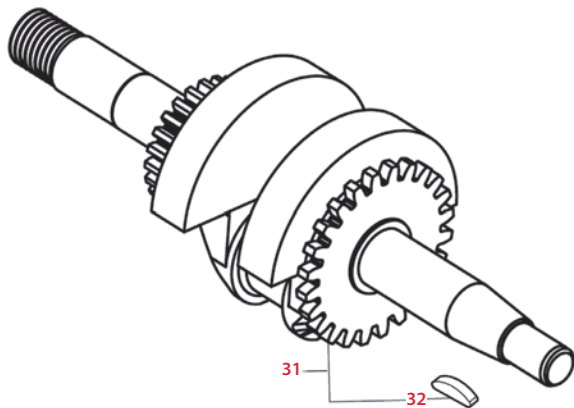
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly (below right)			
24	JMRT1338	90682-Z510110-0000	Oil seal
25	NS	11411-Z510310-0B00	Crankcase cover
26	NS	90548-0303-00	Bearing
27	JMRT1339	11001-Z510110-0000	Crankcase gasket
28	NS	90502-0812-00	Pin
29	NS	15010-Z510110-Q500	Oil dipstick subassembly
30	NS	90001-0625-01	Bolt



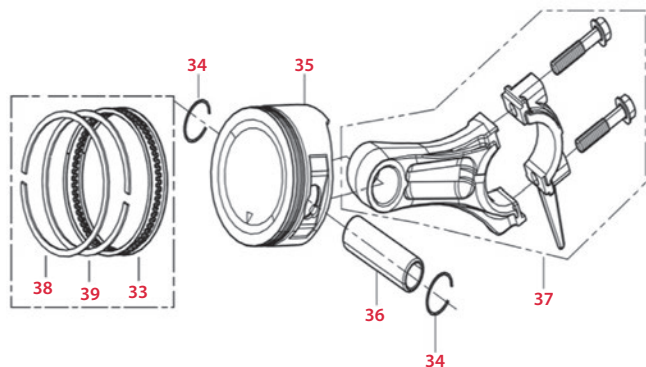
RT25ZB20-1.2Q Portable Transfer Pump

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Item	JAK Max Part No.	RATC Part No.	Description
Crankshaft (below left)			
31	NS	13300-Z210210-0000	Crankshaft assembly
32	NS	90524-Z510110-0000	Woodruff Key

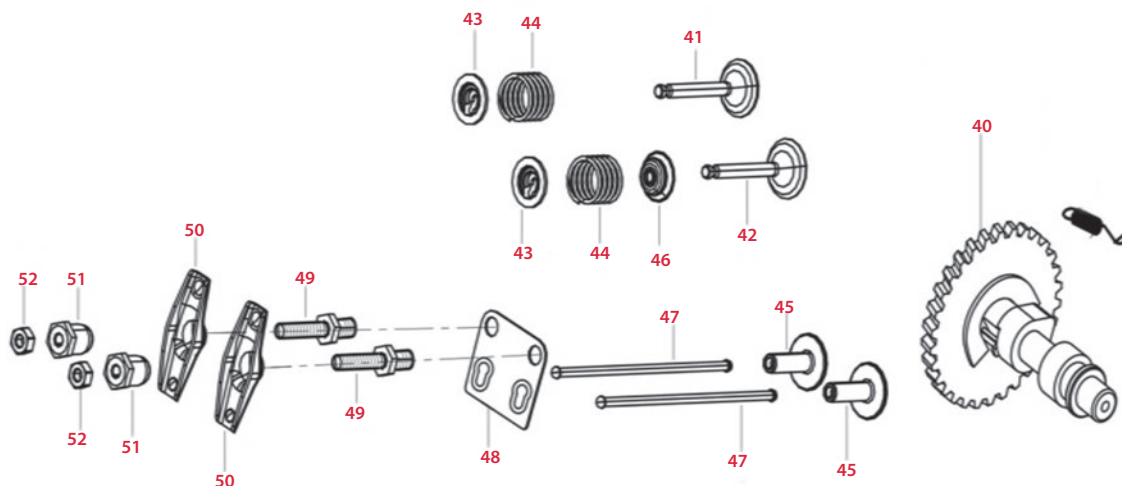


Item	JAK Max Part No.	RATC Part No.	Description
Oil Ring & Crankshaft Connecting Rod (below right)			
33	NS	13210-Z450110-0000	Oil ring set
34	NS	13122-Z450110-0000	Piston pin clip
35	NS	13111-Z450110-0000	Piston
36	NS	13121-Z450110-0000	Piston pin
37	NS	13010-Z210110-0000	Connecting rod
38	NS	13201-Z450110-0000	First ring
39	NS	13202-Z450110-0000	Second ring



Item	JAK Max Part No.	RATC Part No.	Description
Valve Train & Camshaft Subassembly (below)			
40	NS	14200-Z510120-0000	Camshaft assembly
41	NS	12111-Z510110-0000	Exhaust valve
42	NS	12121-Z510120-0000	Intake valve
43	NS	12112-Z010110-0000	Valve spring seat
44	NS	12103-Z510110-0000	Valve spring
45	NS	14081-Z510110-0000	Valve tappet
46	NS	12101-Z010110-0000	Seal guide

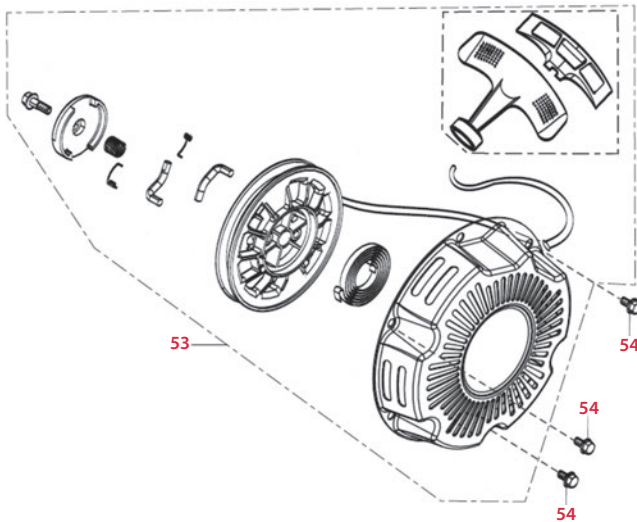
Item	JAK Max Part No.	RATC Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
47	NS	14070-Z510110-0000	Valve lifter subassembly
48	NS	14090-Z510110-0000	Lifter stopper plate subassembly
49	NS	14313-Z510110-0000	Valve adjusting bolt
50	NS	14311-Z510110-0000	Valve rocker
51	NS	14314-Z300110-0000	Valve adjusting nut
52	NS	14312-Z300110-0000	Valve lock nut



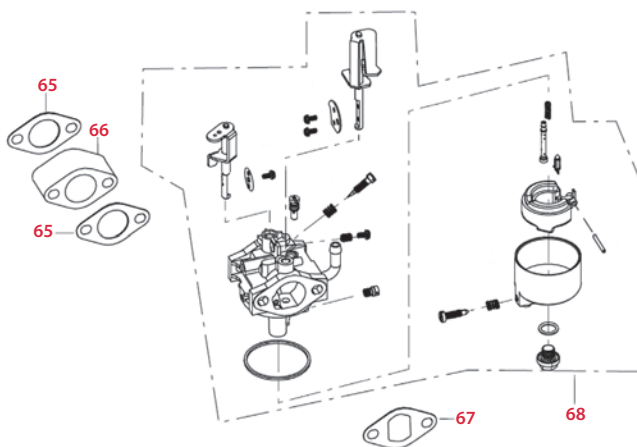
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RT25ZB20-1.2Q Portable Transfer Pump

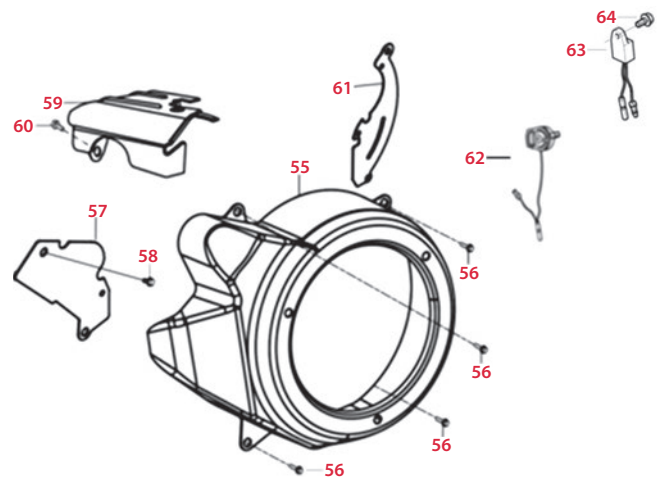
Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (below left)			
53	JMRT1340	28200-Z510210-H600	Starter Recoil assembly
54	NS	90001-0608-01	Bolt



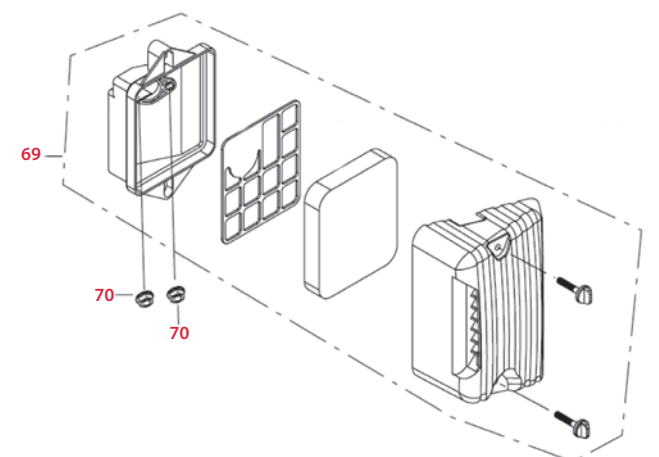
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below left)			
65	JMRT1342	16001-Z510110-0000	Carburettor gasket
66	NS	16003-Z510110-0000	Carburettor insulator plate
67	JMRT1343	17001-Z510110-0000	Air cleaner gasket
68	JMRT1341	16100-Z210110-0000	Carburettor assembly



Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (below right)			
55	NS	28110-Z510110-H600	Shroud
56	NS	90001-0612-01	Bolt
57	NS	19306-Z510110-0000	Crankcase air deflector
58	NS	90001-0616-01	Bolt
59	NS	19304-Z510110-0000	Cylinder body shroud
60	NS	90001-0610-01	Bolt
61	NS	30028-Z510110-0000	Shroud shield
62	NS	35540-Z060120-Q200	Stop engine switch subassembly
63	NS	37050-Z010210-0000	
64	NS	90001-0610-01	Bolt



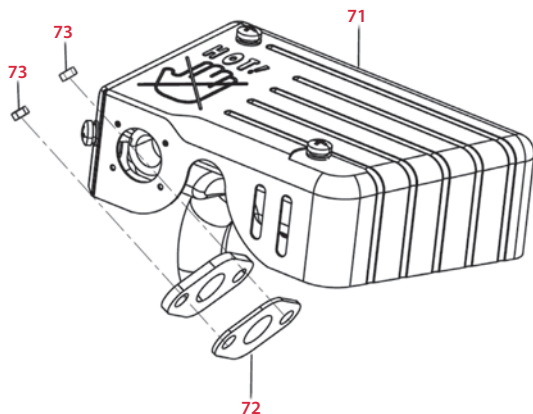
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below right)			
69	JMRT1344	17100-Z510110-0000	Air cleaner
70	NS	90305-0600-31	Nut



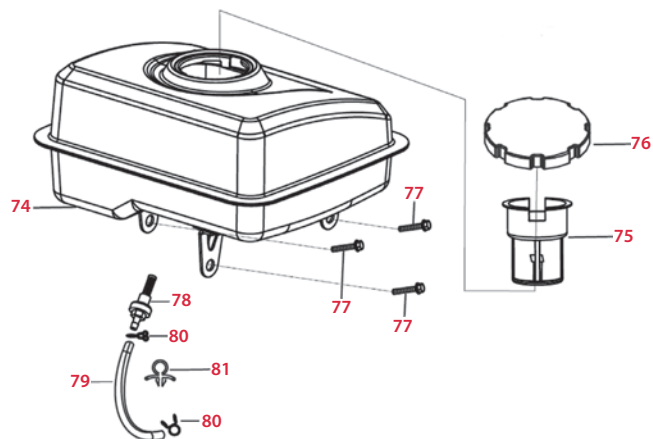
RT25ZB20-1.2Q Portable Transfer Pump

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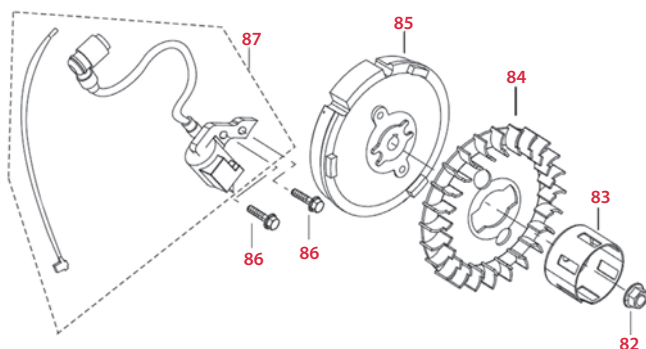
Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below left)			
71	JMRT1345	18100-Z510110-0000	Muffler assembly
72	JMRT1346	18001-Z510110-0000	Exhaust outlet gasket
73	NS	90303-0800-31	Nut



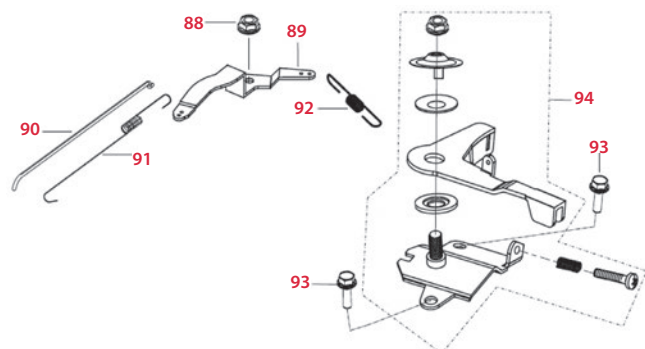
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (below right)			
74	JMRT1347	16620-Z510120-H600	Fuel tank
75	JMRT1349	16652-Z010110-0000	Fuel strainer
76	JMRT1348	16730-Z300120-0000	Fuel tank cover
77	NS	90001-0612-01	Bolt
78	NS	16680-Z010110-0000	Fuel tank oil outlet subassembly
79	NS	90686-Z510110-0000	Fuel tube
80	NS	90685-Z030220-0000	Clip
81	NS	90684-Z250110-0000	Clip



Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (below)			
82	NS	13501-Z510110-0000	Flywheel nut
83	NS	28002-Z510110-0000	Starter pulley
84	NS	19352-Z510110-0000	Impeller
85	NS	13510-Z510110-0000	Flywheel subassembly
86	NS	90001-0620-01	Bolt
87	JMRT1350	30400-Z510110-0000	Ignition coil



Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (below right)			
88	NS	90305-0600-31	Nut
89	NS	16070-Z510110-0000	Governor support subassembly
90	NS	16062-Z510110-0000	Governor rod
91	NS	16012-Z510110-0000	Throttle valve returning spring
92	NS	16063-Z210110-0000	Governor spring
93	NS	90001-0608-01	Bolt
94	NS	16520-Z510120-0000	Throttle control assembly

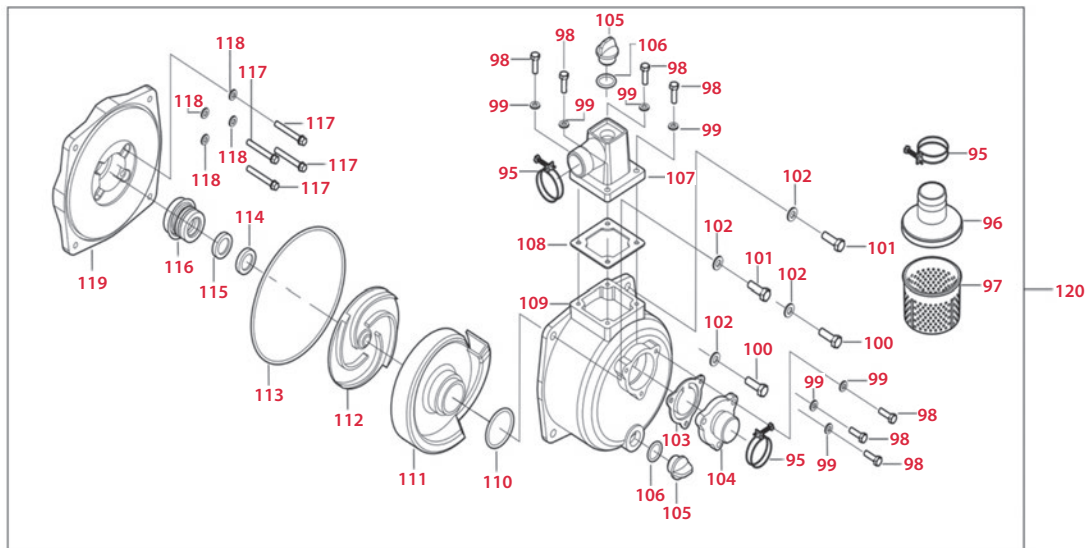


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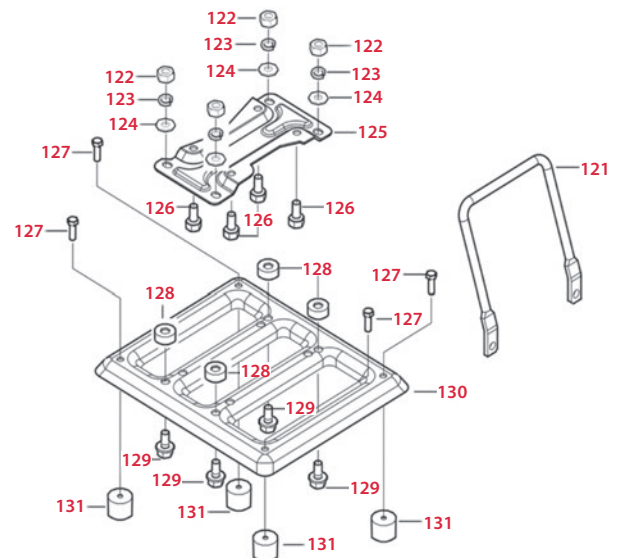
RT25ZB20-1.2Q Portable Transfer Pump

Item	JAK Max Part No.	RATO Part No.	Description
Pump Body (below)			
95	NS	70400-V040210-0000	Hose hoop assembly
96	NS	70113-V040210-0000	Filter cover
97	NS	70114-V040210-0000	Filter
98	NS	90005-0618-01	Bolt
99	NS	90408-0600-E1	Washer
100	NS	90005-0820-01	Bolt
101	NS	90005-0820-01	Bolt
102	NS	90408-0800-E1	Washer
103	JMRT1351	70115-V040210-0000	Inlet water gasket
104	JMRT1352	70116-V040410-0000	Water inlet
105	NS	70107-V040210-0000	Thread plug
106	NS	70122-V040210-0000	Screw plug washer
107	JMRT1353	70108-V040410-0000	Water outlet

Item	JAK Max Part No.	RATO Part No.	Description
Pump Body - continued (below)			
108	JMRT1354	70109-V040210-0000	Outlet gasket
109	JMRT1355	70105-V040210-0000	Pump body
110	JMRT1361	70104-V040210-0000	Whorl case sealing ring
111	JMRT1362	70103-V040210-0000	Whorl case
112	JMRT1356	70102-V040210-0000	Water pump impeller
113	JMRT1360	70119-V040210-0000	Water pump joint cushion
114	JMRT1357	70125-V040210-0000	Impeller seal
115	JMRT1358	70309-V040210-0000	Porcelain seal
116	JMRT1359	70300-V040210-0000	Mechanism seal assembly
117	NS	90001-0645-01	Bolt
118	NS	90409-V040110-0000	Washer
119	JMRT1363	70118-V040210-0000	Water pump joint
120	JMRT1364	70100-V040410-0000	Water pump assembly



Item	JAK Max Part No.	RATO Part No.	Description
Engine Frame Assembly (right)			
121	NS	54111-V040220-0000	Handle
122	NS	90303-0800-31	Nut
123	NS	90403-0800-00	Washer
124	NS	90408-0800-E1	Washer
125	NS	51002-Z450110-0000	Engine fixed bottom plate
126	NS	90001-0816-01	Bolt
127	NS	90001-0610-01	Bolt
128	NS	51146-V030110-0000	Water pump seat
129	NS	90001-0825-01	Bolt
130	NS	51143-V040110-H600	Bottom plate
131	NS	51014HY450110-0000	Engine frame shock absorption seat



RT40YB75-3.6Q High Pressure Pump

Product Information

The RATC RT40YB75-3.6Q 7hp high pressure pump is ideal for irrigation, fire security, fish pools, orchard water supply, house cleaning and long distance and high pressure water supply. Has a rugged full frame for protection.

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



SPECIFICATIONS

RT50YB80-3.8Q

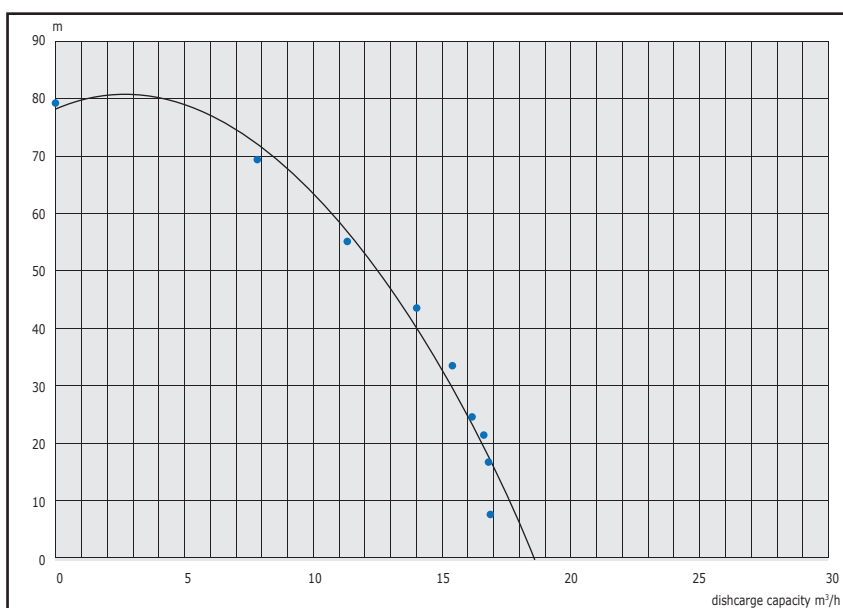
Engine model	R210 / 7hp
Engine type	Single cylinder, 4 stroke, OHV
Starting system	Recoil start
Bore x stroke	70 x 55mm
Displacement	212ml
Compression ratio	9 : 1
Net power	4.2kw / 3600rpm
Fuel consumption	≤395 (g/kw-h)
Net torque	12N.m / 2500rpm
Pump set	1.5" high lift pump
Suction port diameter	38mm (1.5")
Discharge port diameter	1.5" / 1" / 1"
Suction head lift	7m
Total head lift	79m
Discharge capacity	16m³/h / 266 litres per minute
Dimensions (L x W x H mm)	500 x 395 x 446
Net weight	28.5kg

Features

- Powerful 7hp RATC engine.
- Rugged full frame protection.
- Transistorised ignition for reliable starting.
- Cast iron cylinder liner ensures consistent performance and durability.



Unload Speed	Loading Speed	Suction Head Lift	Discharge Capacity (m³/h)	Total Head Lift (M)	Test Envir. Temp (C°)	Pressure at Outlet (kPa)	Intake Temp (C°)	Outlet Temp (C°)
3760	3580	1.5	16.9	7.78	22	60.7	8.4	18.5
			16.8	16.81		184.7	8.8	18.5
			16.6	21.54		212.2	7.8	18.5
			16.1	24.54		294.6	7.0	18.5
			15.4	33.54		386.0	7.4	18.5
			14	43.52		492.5	8.8	18.4
			11.3	55.14		622.6	7.8	18.5
			7.8	69.35		691.6	7.0	18.5
			0	79.03		714.0	8.8	18.5
Trend discharge (m³/h)			18.5					

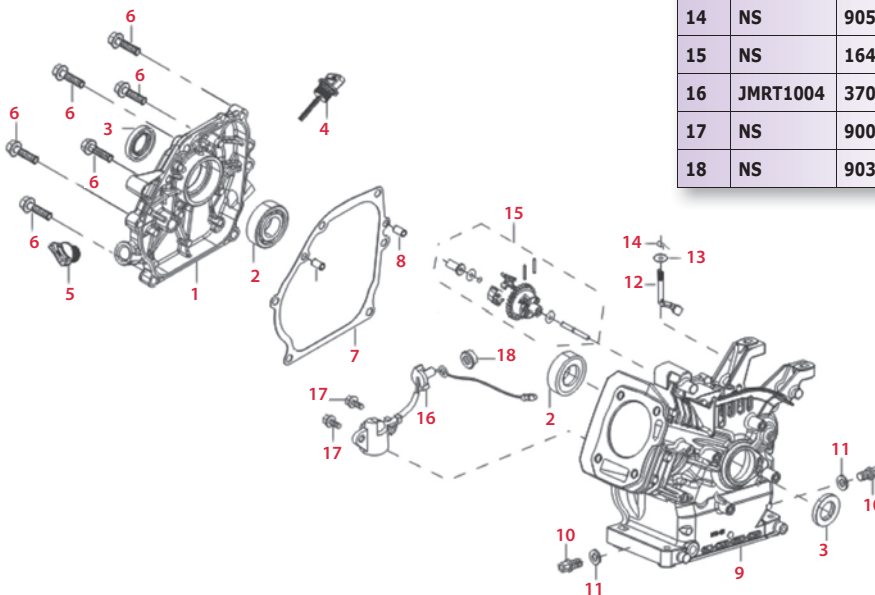


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RT40YB75-3.6Q High Pressure Pump

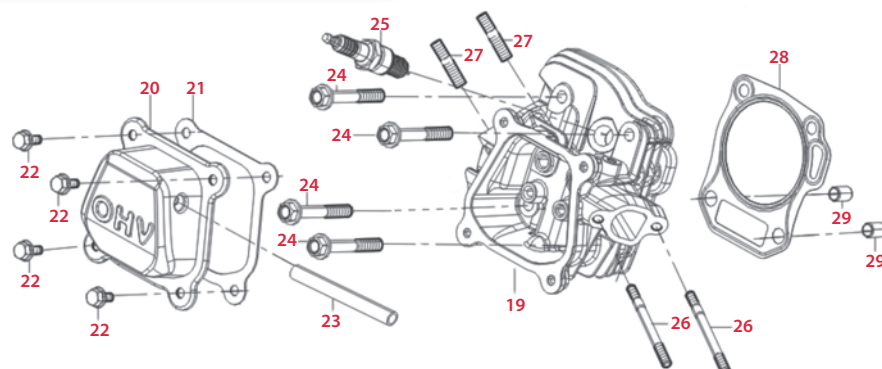
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase, Governor Gear Assy, Crankcase Cover Sub Assy			
1	NS	11411-Z440410-00A0	Crankcase cover
2	NS	90548-0205-00A0	Deep groove ball bearing
3	NS	90682-Z300110-00A0	Oil seal
4	JMRT1007	15010-Z010130-Q500	Oil dipstick subassembly
5	NS	15030-Z010130-Q500	Engine oil plug subassembly
6	NS	90001-0832-01	Bolt

Item	JAK Max Part No.	RATO Part No.	Description
Crankcase, Governor Gear Assy, Crankcase Cover Sub Assy			
7	NS	11001-Z440110-00A0	Crankcase gasket
8	NS	90502-0912-00	Pin
9	NS	11310-Z530420-00A9	Crankcase subassembly
10	JMRT1177	11007-Z010110-0000	Drain plug bolt
11	NS	90408-Z010110-0000	Flat washer
12	NS	16061-Z010110-00A0	Governor arm
13	NS	90408-Z010210-0000	Flat washer
14	NS	90501-Z010110-0000	Pin
15	NS	16400-Z010110-00A0	Governor gear assembly
16	JMRT1004	37060-Z010120-0000	Engine oil sensor
17	NS	90001-0614-01	Bolt
18	NS	90305-Z010210-01	Nut



Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
19	NS	12140-Z810210-00A0	Cylinder head subassembly
20	NS	12410-Z300120-0000	Cylinder head cover subassembly
21	JMRT1002	12004-Z010110-0000	Cylinder head cover gasket
22	NS	90001-0612-01	Bolt
23	NS	17004-Z440110-0000	Breather tube
24	NS	12003-Z010110-0000	Cylinder head bolt

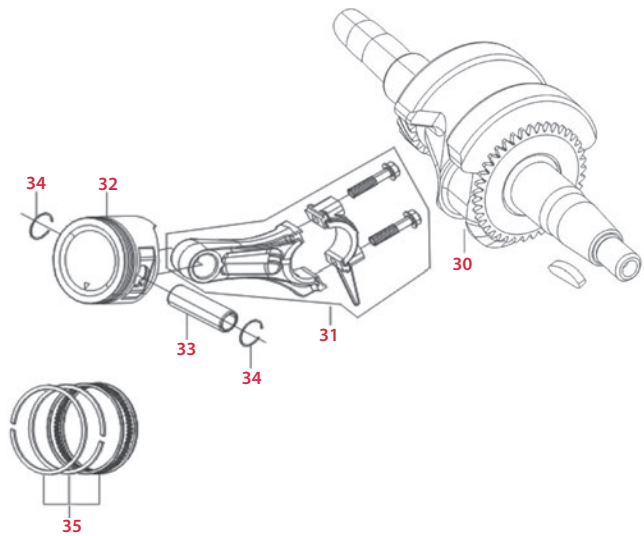
Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
25	BPR6ES/ N9YC	30010-Z010110-0000	Spark plug
26	NS	90204-Z010310-0000	Stud
27	NS	90203-Z010110-0000	Stud
28	NS	12131-Z950110-00A0	Cylinder head gasket
29	NS	90502-1114-00	Pin



RT40YB75-3.6Q High Pressure Pump

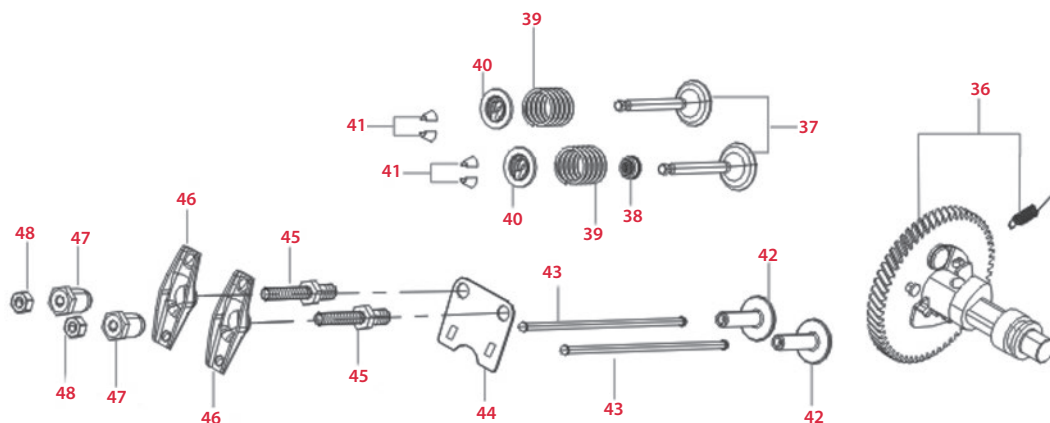
*NS - Not Stocked by JAK Max
however available from RATO. Special
order only, 3 month lead time.

Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft Connecting Rod (Right)			
30	JMRT1009	13300-Z532510-0000	Crankshaft assembly
31	NS	13010-Z440210-00A9	Connecting rod
32	NS	13111-Z140220-00A9	Piston
33	NS	13121-Z010110-00A0	Piston pin
34	NS	13122-Z010110-00A0	Piston pin clip
35	NS	13200-Z140210-00A9	Piston rings



Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (below)			
36	NS	14200-Z530210-00A9	Camshaft assembly
37	NS	12110-Z810120-00A9	Valve set
38	NS	12101-Z810210-00A0	Seal guide
39	NS	12103-Z010110-00A0	Valve spring
40	NS	12112-Z810210-00A0	Valve spring seat
41	NS	12109-Z810110-0000	Valve lock clamp
42	JMRT1023	14081-Z040110-0000	Valve tappet

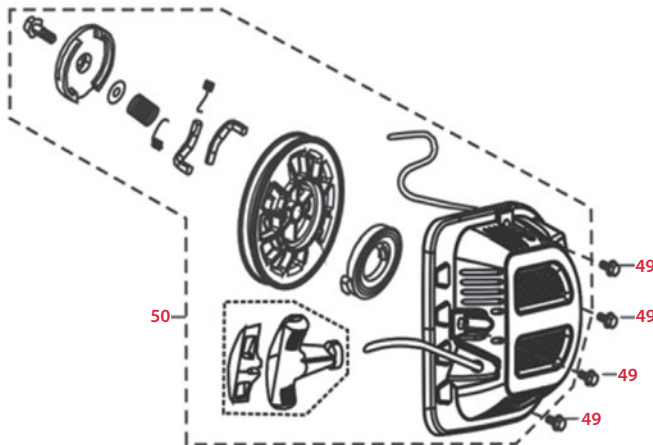
Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
43	NS	14071-Z440110-00A0	Valve lifter
44	JMRT1025	14090-Z010110-0000	Lifter stopper plate subassembly
45	NS	14313-Z010110-00A0	Rocker shaft bolt
46	NS	14311-Z010110-00A0	Valve rocker
47	JMRT1028	14314-Z010110-0000	Valve adjusting nut
48	JMRT1029	14312-Z010110-0000	Valve lock nut



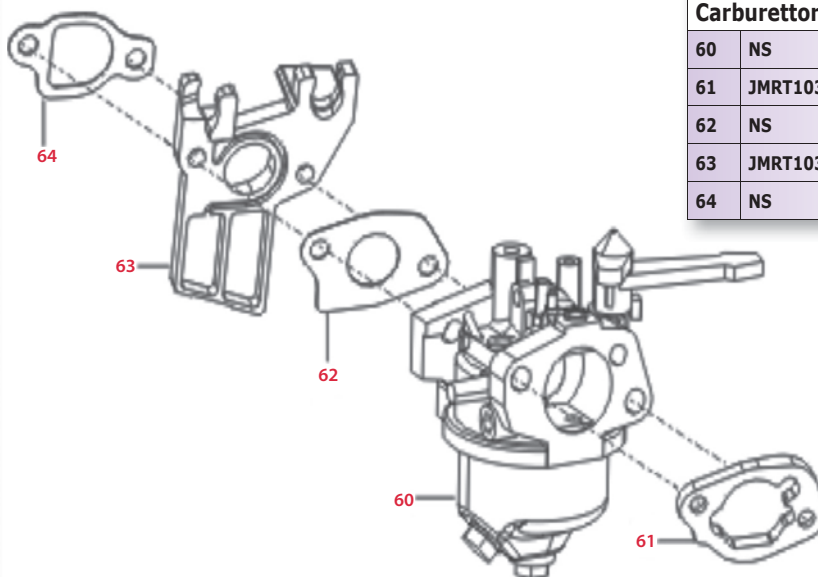
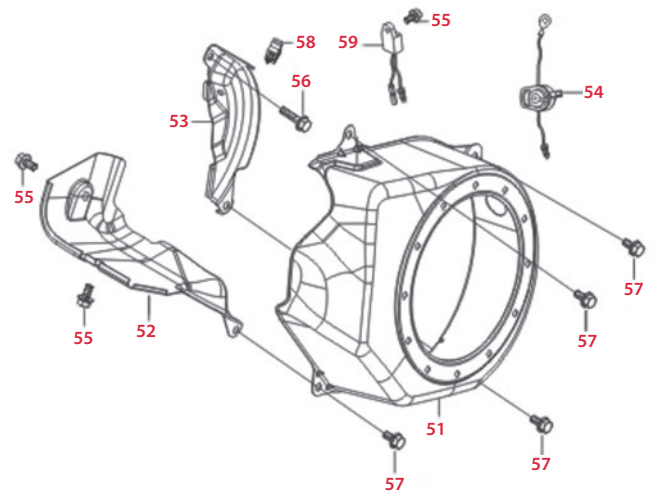
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RT40YB75-3.6Q High Pressure Pump

Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (Below Left)			
49	NS	90001-0612-01	Bolt
50	JMRT1031	28200-Z010320-Q200	Starter Recoil assembly



Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (Below Right)			
51	NS	28110-Z010410-Y100	Shroud
52	NS	19304-Z010610-0000	Cylinder body shroud
53	NS	19340-Z010810-00A0	Lower shield
54	JMRT1033	35540-Z060140-Q200	Stop engine switch subassembly
55	NS	90001-0610-01	Bolt
56	NS	90001-0616-01	Bolt
57	NS	90001-0612-01	Bolt
58	NS	90740-Z010110-0000	Collar
59	JMRT1324	37050-Z010210-0000	Oil protector

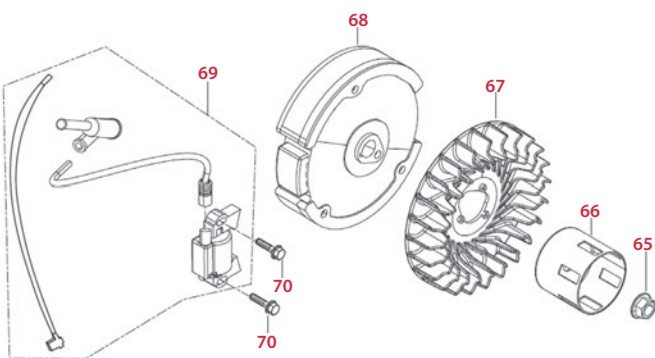


Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (Left)			
60	NS	16100-Z530610-00A9	Carburettor assembly
61	JMRT1037	17001-Z010210-0000	Air cleaner gasket
62	NS	16001-Z010110-0000	Carburettor gasket
63	JMRT1039	16003-Z010110-0000	Carburettor insulator plate
64	NS	16002-Z010110-0000	Carburettor insulator gasket

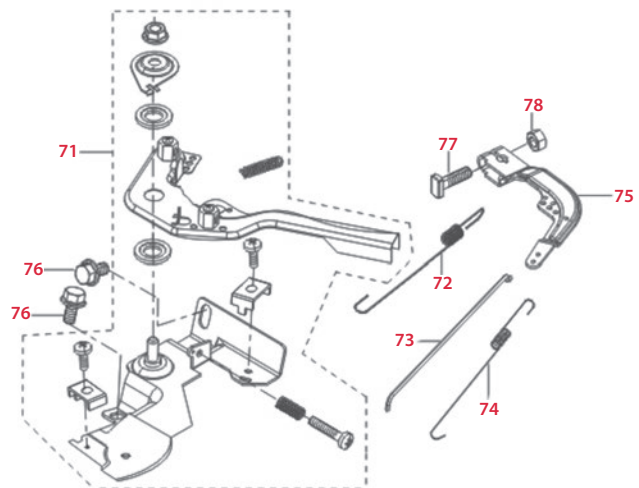
RT40YB75-3.6Q High Pressure Pump

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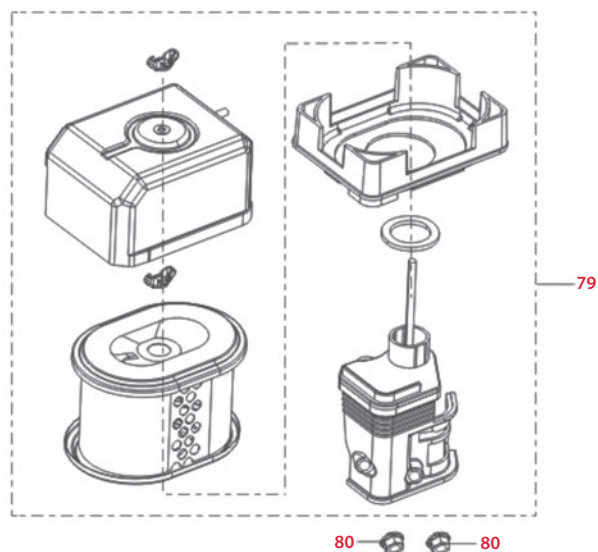
Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (Below Left)			
65	NS	13501-Z010110-0000	Flywheel nut
66	JMRT1051	28002-Z300210-0000	Starter cup
67	NS	19352-Z440210-00A0	Impeller
68	NS	13510-Z440410-00A0	Flywheel subassembly
69	NS	30400-Z440410-0000	Ignition coil
70	NS	90001-0625-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (Below Right)			
71	NS	16520-Z010230-0000	Throttle control assembly
72	NS	16063-Z050410-0000	Governor spring
73	NS	16062-Z010110-0000	Governor rod
74	JMRT1054	16012-Z010110-0000	Throttle valve returning spring
75	NS	16070-Z010110-0000	Governor support subassembly
76	NS	90001-0610-01	Bolt
77	NS	16072-Z010110-0000	Governor support bolt
78	JMRT1321	90305-0600-31	Nut



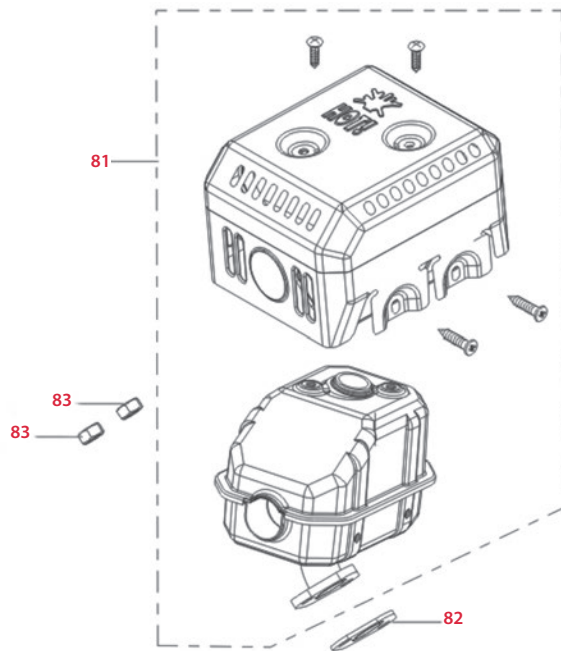
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (Right)			
79	JMRT1371	17100-Z011110-0099	Air cleaner
80	JMRT1321	90305-0600-31	Nut



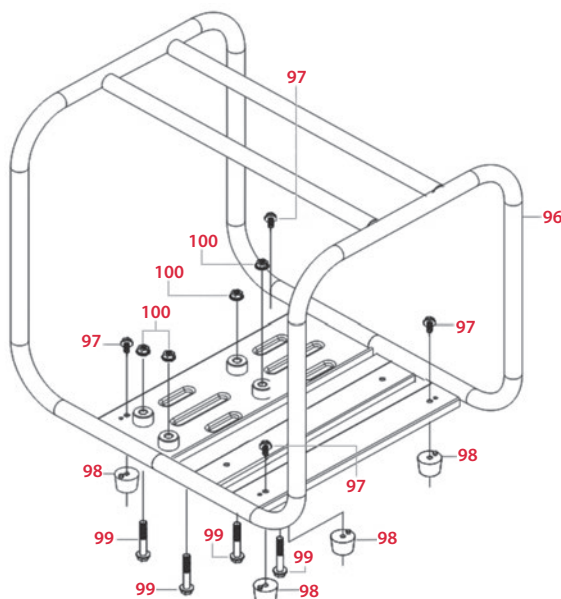
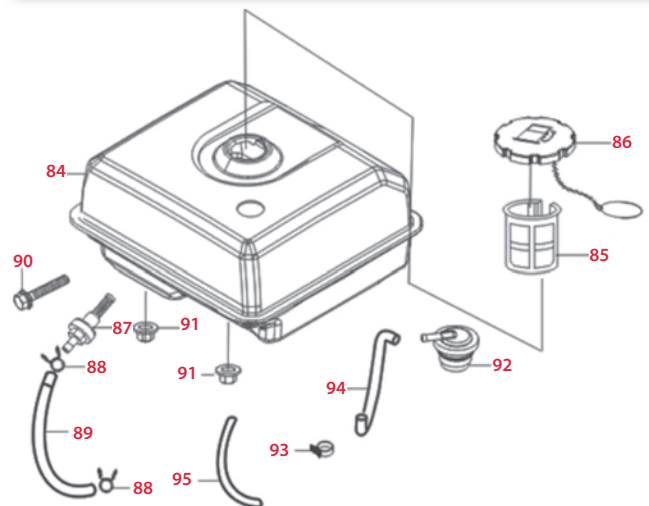
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RT40YB75-3.6Q High Pressure Pump

Item	JAK Max Part No.	RATC Part No.	Description
Muffler Assembly (Below Left)			
81	NS	18100-Z440110-0000	Muffler assembly
82	JMRT1045	18001-Z440110-0000	Exhaust outlet gasket
83	NS	90303-0800-31	Nut



Item	JAK Max Part No.	RATC Part No.	Description
Fuel Tank Assembly (Below Right)			
84	NS	16620-Z440720-Y10P	Fuel tank
85	NS	16652-Z010710-00A0	Fuel strainer
86	NS	16730-Z010750-QB99	Fuel tank cover
87	JMRT1049	16680-Z010110-0000	Fuel tank oil outlet subassembly
88	NS	90740-Z010210-0000	Collar
89	NS	90686-Z010710-0000	Fuel tube
90	NS	90001-0630-01	Bolt
91	JMRT1321	90305-0600-31	Nut
92	NS	15150-Z010510-0000	One way valve
93	NS	90685-Z030410-0000	Clamp
94	NS	16804-Z440310-0099	Fuel steam rubber hose
95	NS	30431-Z010110-0000	Rubber jacket



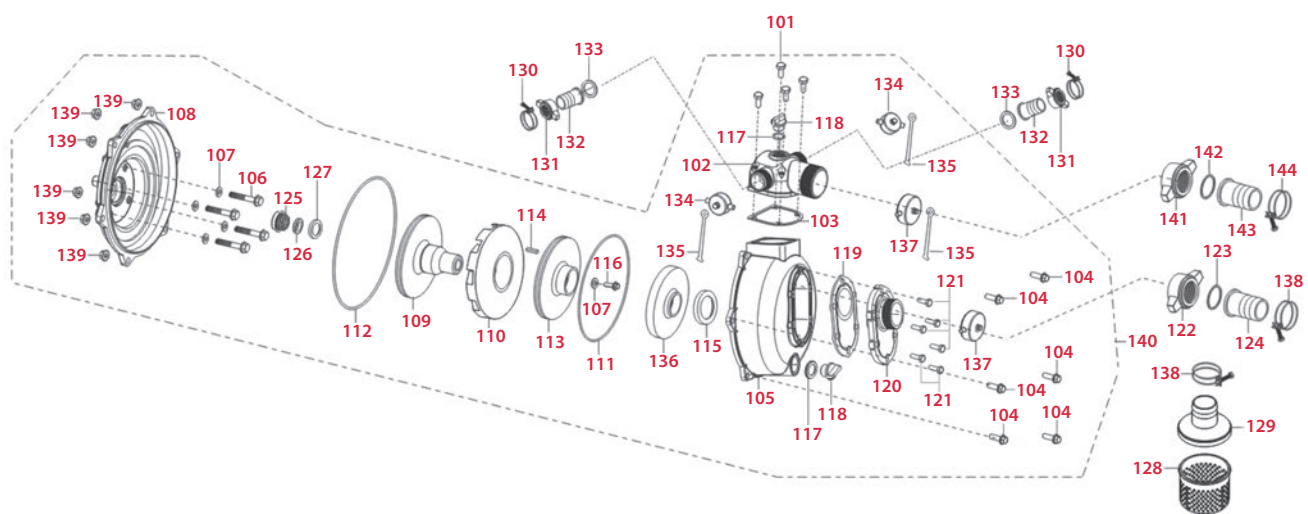
Item	JAK Max Part No.	RATC Part No.	Description
Engine Frame Assembly (Left)			
96	JMRT1103	51100-V020210-H7L0	Engine frame assembly
97	NS	90001-0612-01	Bolt
98	JMRT1105	51014HY450110-0000	Engine frame shock absorption seat
99	NS	90001-0850-01	Bolt
100	NS	90327-0800-31	Nut

RT40YB75-3.6Q High Pressure Pump

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Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly (below)			
101	NS	90001-0825-01	Bolt
102	JMRT1065	70108-V070910-0K00	Water outlet
103	JMRT1091	70109-V070310-0000	Outlet gasket
104	NS	90001-1035-01	Bolt
105	NS	70105-V070510-0K00	Pump body
106	NS	90001-V010210-0000	Bolt
107	JMRT1081	90409-V010110-0000	Gasket
108	NS	70118-V100110-0K00	Water pump joint
109	NS	70251-V100110-0000	
110	NS	70126-V100110-0000	Impeller sleeve
111	NS	70136-V100110-0000	
112	JMRT1084	70119-V070210-0000	Water pump joint cushion
113	NS	70252-V100110-0000	
114	NS	90522-V100110-0000	Flat key
115	JMRT1089	70104-V070510-0000	Whorl case sealing ring
116	NS	90001-0820-01	Bolt
117	NS	70122-V070210-0000	Screw plug washer
118	JMRT1095	70107-V070210-0000	Thread plug
119	JMRT1093	70115-V070210-0000	Water inlet gasket
120	NS	70116-V140110-0K00	Water inlet
121	NS	90001-0825-01	Bolt
122	NS	70111-V050510-0K00	Hose joint

Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly - continued (below)			
123	NS	70131-V050110-0000	Hose joint seal ring
124	NS	70112-V050510-0K00	Hose interface
125	NS	70300-V010310-0000	Mechanism seal assembly
126	NS	70309-V100210-0000	Porcelain seal
127	NS	70125-V010210-0000	Impeller seal ring
128	NS	70114-V050310-0000	Filter
129	NS	70113-V050310-0000	Filter cover
130	NS	70400-V040410-0000	Hose hoop subassembly
131	NS	70111-V040710-0K00	Hose joint
132	NS	70112-V040510-0K00	Hose interface
133	NS	70131-V040510-0000	Hose joint seal ring
134	NS	70137-V070310-0000	
135	NS	70138-V070110-0000	
136	NS	70103-V100110-0000	Whorl case
137	NS	70137-V070410-0000	
138	NS	70400-V050410-0000	Hose hoop subassembly
139	NS	90327-1000-31	Nut
140	NS	70100-V140810-0K00	Water pump assembly
141	NS	70111-V050510-0K00	Hose joint
142	NS	70131-V050110-0000	Hose joint seal ring
143	NS	70112-V050510-0K00	Hose interface
144	NS	70400-V050410-0000	Hose hoop subassembly



RT50YB50-3.8Q Single Impeller High Pressure Pump

Product Information



The RATC RT50YB50-3.8Q 7hp high pressure pump is ideal for irrigation, fire security, fish pools, orchard water supply, house cleaning and long distance and high pressure water supply. Has a rugged full frame for protection.

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

Features

- Transistorised ignition for reliable starting.
- Cast iron cylinder liner ensures consistent performance and durability.
- Rugged full frame protection.
- Powerful 7hp RATC engine.

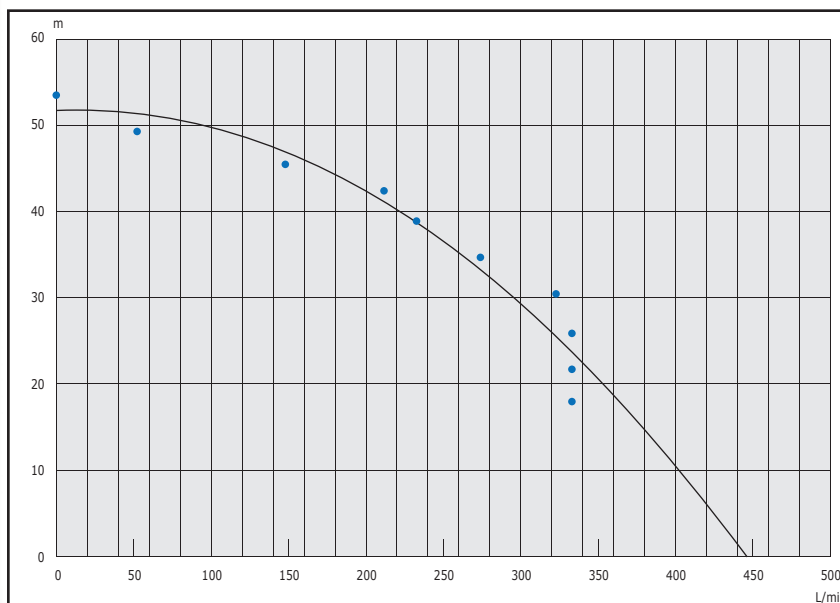


SPECIFICATIONS

RT50YB50-3.8Q

Engine model	R210 / 7hp
Engine type	Single cylinder, 4 stroke, OHV
Starting system	Recoil start
Bore x stroke	70 x 55mm
Displacement	212ml
Compression ratio	9 : 1
Net power	4.4kw / 3600rpm
Fuel consumption	≤395 (g/kw-h)
Net torque	12N.m / 2500rpm
Pump set	2" high lift pump
Suction port diameter	50mm (2")
Discharge port diameter	1.5" / 1" / 1"
Suction head lift	7m
Total head lift	50m
Discharge capacity	30m³/h / 500 litres per minute
Dimensions (L x W x H mm)	500 x 395 x 446
Net weight	29.5kg

Performance Curve

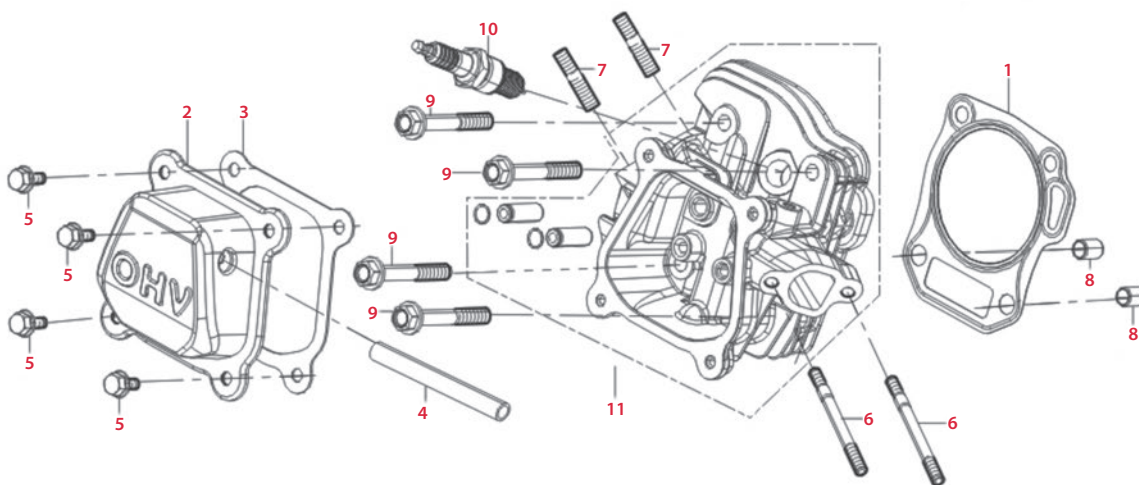


Unload Speed	Loading Speed	Suction Head Lift	Discharge Capacity (m³/h)	Discharge Capacity (L/min)	Total Head Lift (M)	Test Envir. Temp (C°)	Humidity at Outlet	Pressure at Outlet
3840	3400	9.4	20	333.33	17.81	14.5	100	163.1
			20	333.33	21.56	14.5	100	197.5
			20	333.33	25.81	14.5	100	236.4
			19.3	321.67	30.19	14.5	100	276.5
			16.5	275.00	34.41	14.5	100	315.2
			14	233.33	38.83	14.5	100	355.6
			12.7	211.67	42.18	14.5	100	386.3
			8.9	148.33	45.38	14.5	100	415.6
			3.1	51.67	49.26	14.5	100	451.2
			0	0.00	53.36	14.5	100	488.7

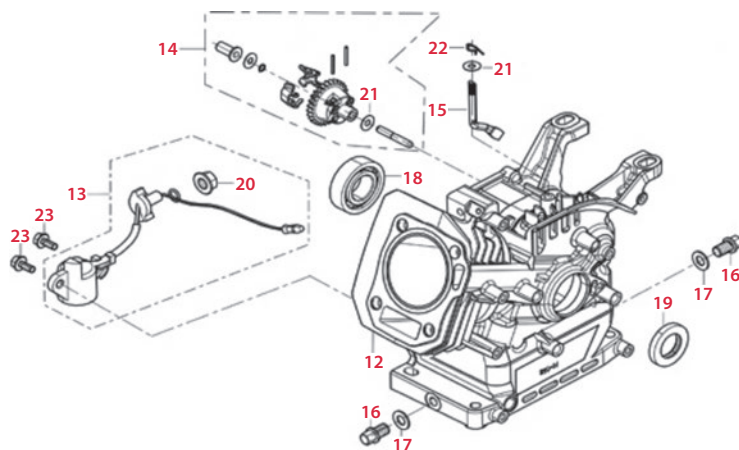
RT50YB50-3.8Q Single Impeller High Pressure Pump

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
1	JMRT1001	12131-Z950110-0000	Cylinder head gasket
2	NS	12410-Z010220-H300	Cylinder head cover subassembly
3	JMRT1002	12004-Z010110-0000	Cylinder head cover gasket
4	NS	17004-Z050210-0000	Breather tube
5	NS	90001-0612-01	Bolt
6	NS	90204-Z010310-0000	Stud

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
7	NS	90203-Z010110-0000	Stud
8	NS	90502-1014-00	Pin
9	NS	12003-Z010110-0000	Cylinder head bolt
10	JMRT1003	30010-Z010110-0000	Spark plug
11	NS	12140-Z040610-0000	Cylinder head subassembly



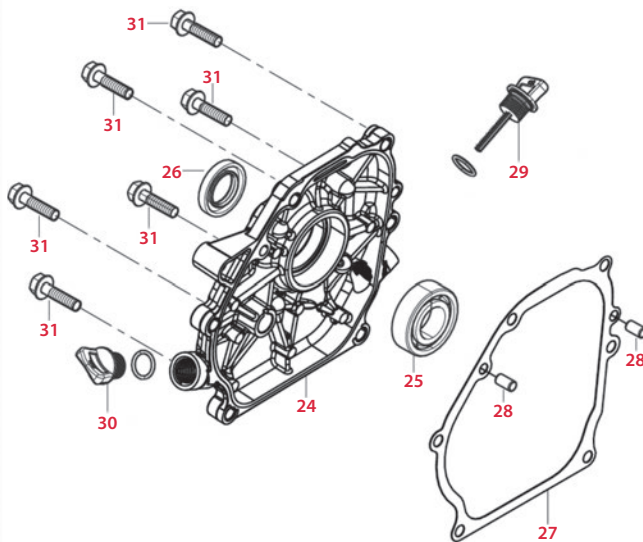
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase & Governor Gear Assembly (right)			
12	NS	11310-Z141220-0000	Crankcase assembly
13	JMRT1004	37060-Z010120-0000	Engine oil sensor
14	NS	16400-Z010110-0000	Governor gear assembly
15	NS	16061-Z010110-0000	Governor arm
16	NS	11007-Z010110-0000	Drain plug bolt
17	NS	90408-Z010110-0000	Washer
18	JMRT1008	90548-0205-CL	Bearing
19	JMRT1005	90682-Z300110-0000	Seal, oil
20	NS	90305-Z010210-01	Nut
21	NS	90408-Z010210-0000	Governor gear washer
22	NS	90501-Z010110-0000	Pin
23	NS	90001-0614-01	Bolt



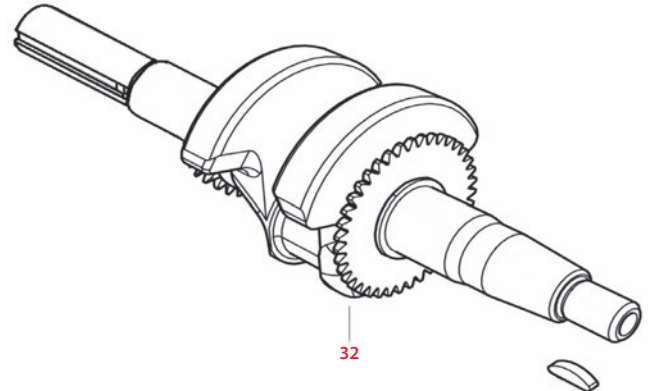
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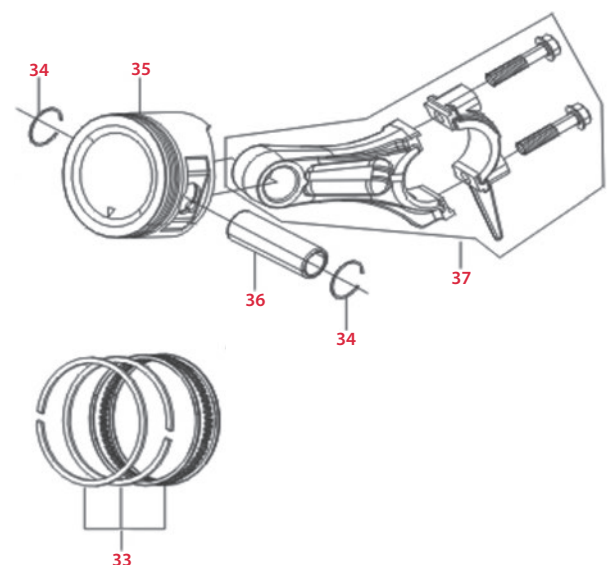
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly (below left)			
24	NS	11411-Z010310-0000	Crankcase cover
25	JMRT1008	90548-0205-CL	Bearing
26	JMRT1005	90682-Z300110-0000	Oil seal
27	JMRT1006	11001-Z440110-0000	Crankcase gasket
28	NS	90502-0812-00	Pin
29	JMRT1007	15010-Z010130-Q500	Oil dipstick subassembly
30	NS	15030-Z010130-Q500	Engine oil plug subassembly
31	NS	90001-0832-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below right)			
32	JMRT1010	13300-Z140330-0000	Crankshaft assembly



Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (right)			
33	JMRT1011	13200-Z140210-0099	Piston ring set
34	JMRT1012	13122-Z010110-0000	Piston pin clip
35	JMRT1013	13111-Z140220-0099	Piston
36	JMRT1014	13121-Z010110-0000	Piston pin
37	JMRT1016	13010-Z440210-0099	Connecting rod

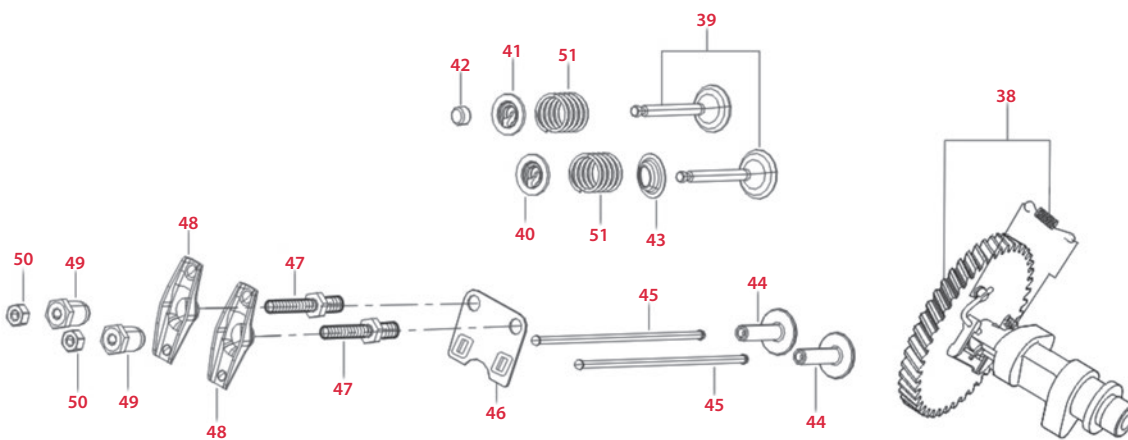


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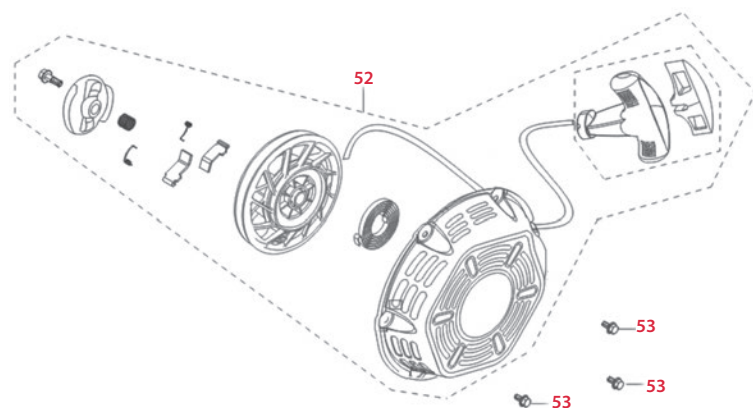
RT50YB50-3.8Q Single Impeller High Pressure Pump

Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (below)			
38	JMRT1017	14200-Z300210-0000	Camshaft assembly
39	JMRT1018	12110-Z010110-0000	Valve set
40	NS	12112-Z010110-0000	Valve spring seat
41	JMRT1020	12107-Z010110-0000	Exhaust valve retainer
42	JMRT1021	12104-Z010110-0000	Valve rotator
43	JMRT1022	12101-Z810210-0000	Seal guide
44	JMRT1023	14081-Z040110-0000	Valve tappet

Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
45	JMRT1024	14071-Z010110-0000	Valve lifter
46	JMRT1025	14090-Z010110-0000	Lifter stopper plate subassembly
47	JMRT1026	14313-Z010110-0000	Valve adjusting bolt
48	JMRT1027	14311-Z010110-0000	Valve rocker
49	JMRT1028	14314-Z010110-0000	Valve adjusting nut
50	JMRT1029	14312-Z010110-0000	Valve lock nut
51	JMRT1030	12103-Z010110-0000	Valve spring



Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (right)			
52	JMRT1032	28200-Z300110-Y100	Starter Recoil assembly
53	NS	90001-0608-01	Bolt

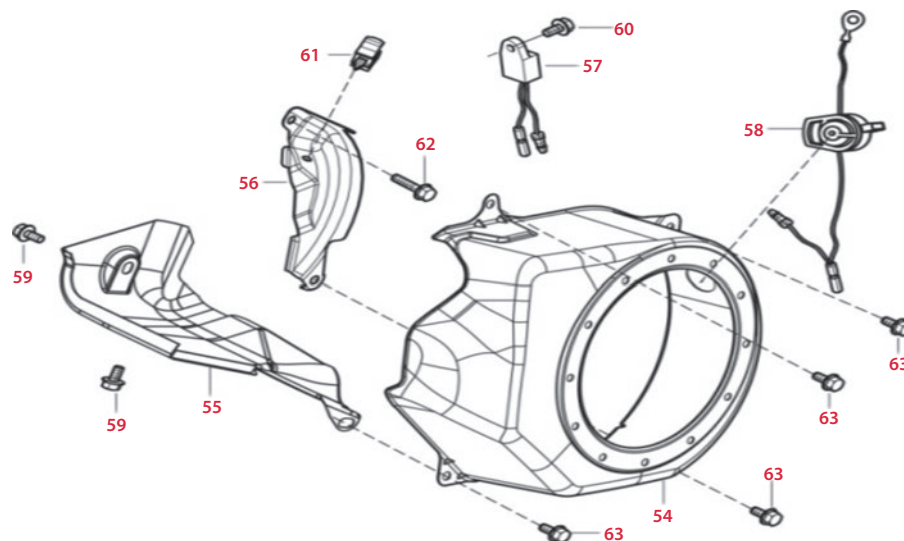


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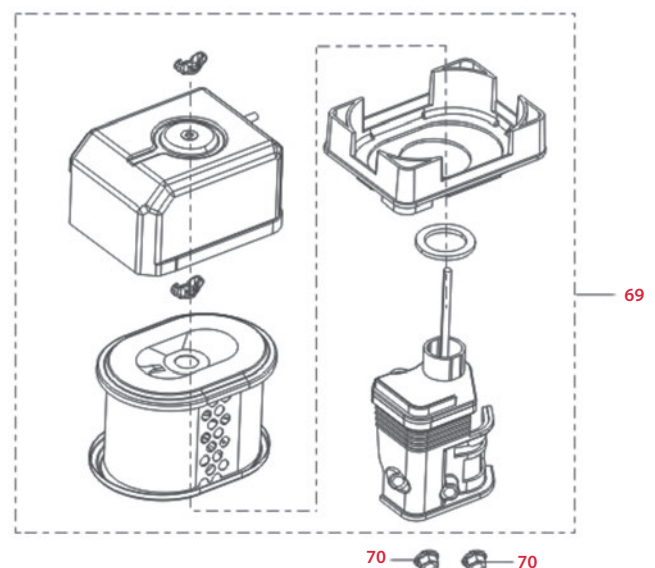
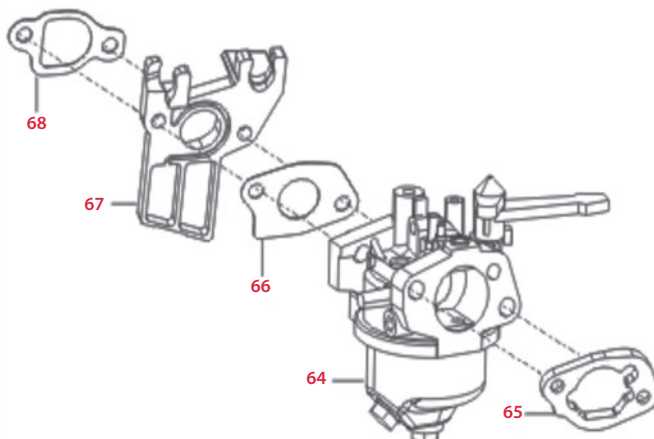
Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (below)			
54	NS	28110-Z010410-Y100	Shroud
55	NS	19304-Z010710-0000	Cylinder body shroud
56	NS	19340-Z010510-0000	Lower shield
57	NS	37050-Z010210-0000	Oil protector
58	JMRT1034	35540-Z060140-QG00	Stop engine switch subassembly

Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield - continued (below)			
59	NS	90001-0610-01	Bolt
60	NS	90001-0610-01	Bolt
61	NS	90740-Z010110-0000	Collar
62	NS	90001-0616-01	Bolt
63	NS	90001-0612-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below left)			
64	JMRT1035	16100-Z040610-0000	Carburettor assembly
65	JMRT1037	17001-Z010210-0000	Air cleaner gasket
66	JMRT1038	16001-Z010110-0000	Carburettor gasket
67	JMRT1039	16003-Z010110-0000	Carburettor insulator plate
68	JMRT1040	16002-Z010110-0000	Carburettor insulator gasket

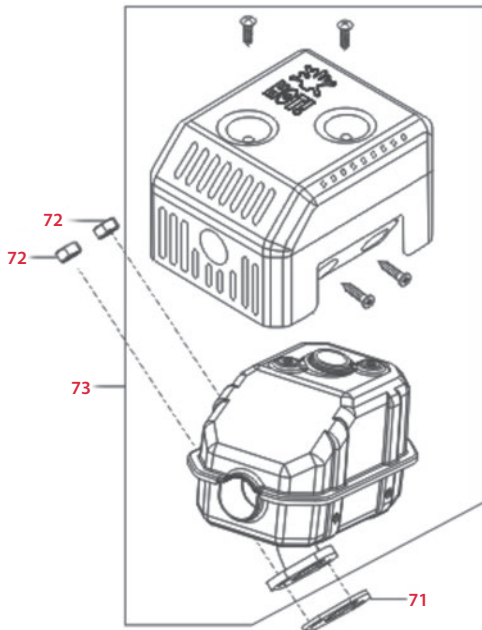
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below right)			
69	JMRT1371	17100-Z010210-0000	Air cleaner
70	NS	90305-0600-31	Nut



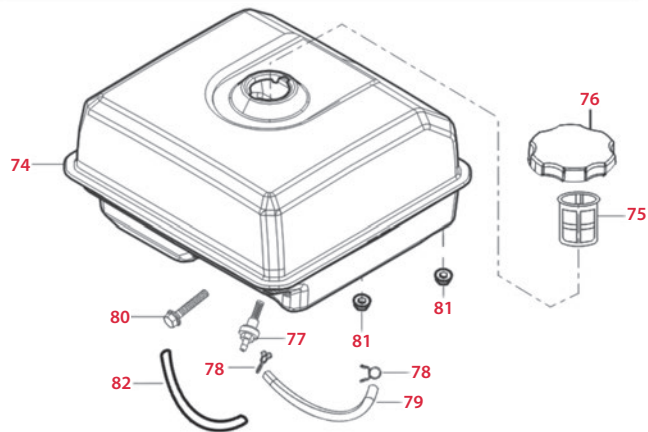
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RT50YB50-3.8Q Single Impeller High Pressure Pump

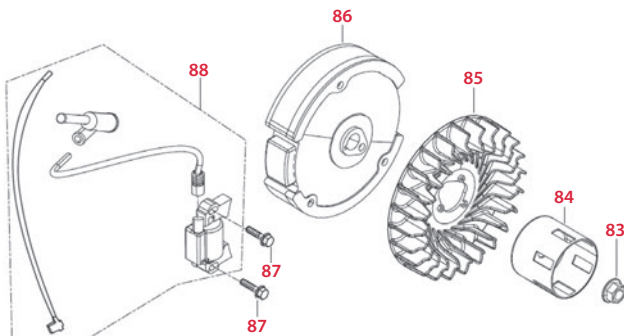
Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below left)			
71	JMRT1045	18001-Z010110-0000	Exhaust outlet gasket
72	NS	90303-0800-31	Nut
73	JMRT1372	18100-Z010710-H300	Muffler assembly



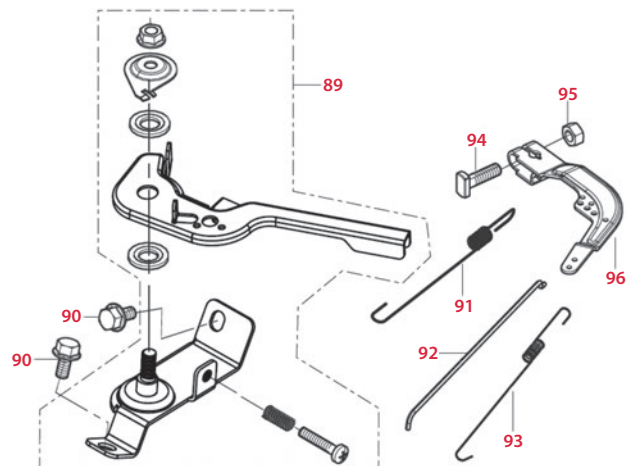
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (below right)			
74	NS	16620-Z440120-Y100	Fuel tank
75	JMRT1375	16652-Z010610-0000	Fuel strainer
76	JMRT1386	16730-Z010820-QB00	Fuel tank cover
77	JMRT1049	16680-Z010110-0000	Fuel tank oil outlet subassembly
78	NS	90740-Z010210-0000	Clamp
79	NS	90686-Z010510-0000	Fuel tube
80	NS	90001-0630-01	Bolt
81	NS	90305-0600-31	Nut
82	NS	30431-Z010110-0000	Rubber jacket



Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (below)			
83	NS	13501-Z010110-0000	Nut
84	JMRT1051	28002-Z300110-0000	Starter cup
85	NS	19352-Z010110-0000	Impeller
86	NS	13510-Z010110-0000	Flywheel subassembly
87	NS	90001-0625-01	Bolt
88	JMRT1052	30400-Z440110-0100	Ignition coil



Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (below right)			
89	NS	16520-Z010230-0000	Throttle control assembly
90	NS	90001-0610-01	Bolt
91	JMRT1053	16063-Z010110-0000	Governor spring
92	NS	16062-Z010110-0000	Governor rod
93	JMRT1054	16012-Z010110-0000	Throttle valve returning spring
94	NS	16072-Z010110-0000	Governor support bolt
95	NS	90305-0600-31	Nut
96	NS	16070-Z010110-0000	Governor support subassembly

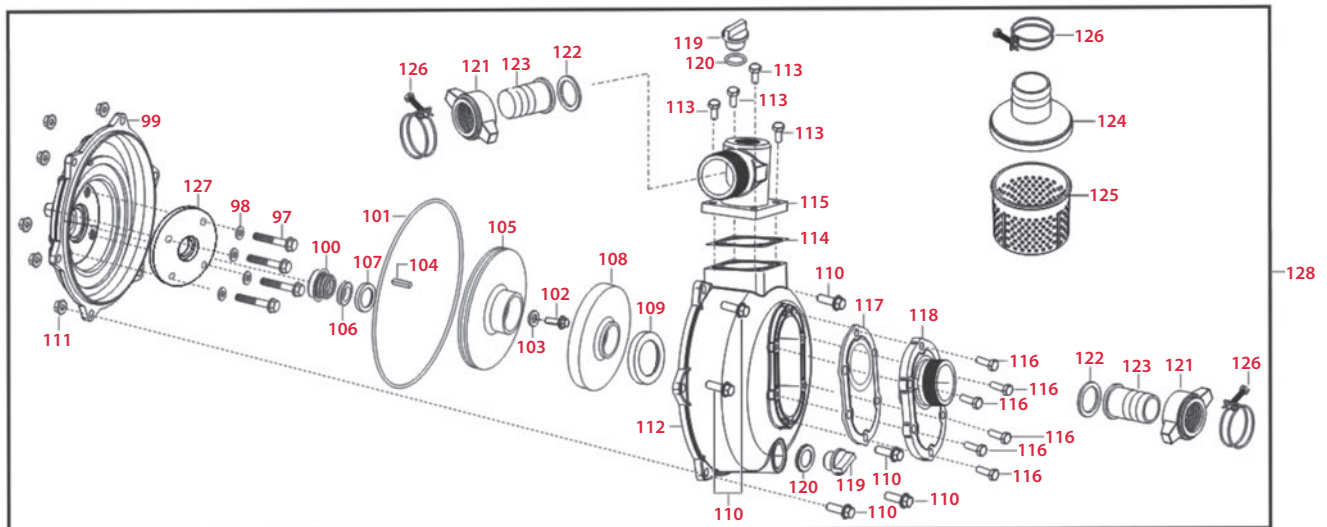


*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

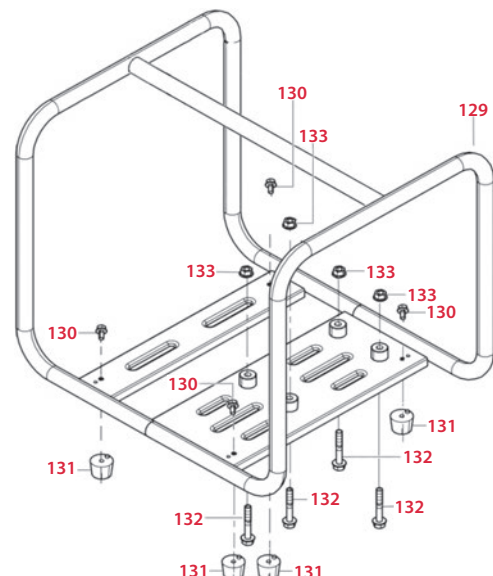
RT50YB50-3.8Q Single Impeller High Pressure Pump

Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly (below)			
97	NS	90001-V070210-0000	Bolt
98	JMRT1081	90409-V070210-0000	Gasket
99	JMRT1082	70118-V070410-0000	Water pump joint
100	JMRT1083	70300-V130210-0000	Mechanism seal assembly
101	JMRT1084	70119-V070410-0000	Water pump joint cushion
102	NS	90001-V070110-0000	Bolt
103	NS	90409-V070210-0000	Gasket
104	NS	90522-V130110-0000	Key
105	JMRT1085	70102-V070410-0000	Water pump impeller
106	JMRT1086	70309-V130210-0000	Porcelain seal
107	JMRT1087	70125-V130210-0000	Impeller seal ring
108	JMRT1088	70103-V070410-0000	Whorl case
109	JMRT1089	70104-V070410-0000	Whorl case sealing ring
110	NS	90001-1035-01	Bolt
111	NS	90327-1000-31	Nut
112	JMRT1090	70105-V070410-0000	Pump body

Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly - continued (below)			
113	NS	90001-0822-01	Bolt
114	JMRT1091	70109-V070410-0000	Outlet gasket
115	JMRT1092	70108-V070510-0000	Water outlet
116	NS	90001-0822-01	Bolt
117	JMRT1093	70115-V070210-0000	Inlet water gasket
118	JMRT1094	70116-V070510-0000	Water inlet
119	JMRT1095	70107-V070310-0000	Thread plug
120	NS	70122-V070310-0000	Screw plug washer
121	JMRT1096	70111-V070210-0000	Hose joint
122	JMRT1097	70131-V070210-0000	Hose joint seal ring
123	JMRT1098	70112-V070210-0000	Hose interface
124	JMRT1099	70113-V010110-0000	Filter cover
125	JMRT1100	70114-V070210-0000	Filter
126	JMRT1101	70400-V070210-0000	Hose hoop subassembly
127	NS	90795-V070210-0000	
128	JMRT1102	70100-V071010-0K00	Water pump assembly complete



Item	JAK Max Part No.	RATO Part No.	Description
Engine Frame Assembly (right)			
129	JMRT1103	51100-V020110-H7L0	Engine frame assembly
130	NS	90001-0610-01	Bolt
131	JMRT1105	51014HY450110-0000	Engine frame shock absorption seat
132	NS	90001-0850-01	Bolt
133	NS	90327-0800-31	Nut



*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

RT50YB80-3.8Q Twin Impeller High Pressure Pump

Product Information

The RATO RT50YB80-3.8Q 7hp high pressure pump is ideal for irrigation, fire security, fish pools, orchard water supply, house cleaning and long distance and high pressure water supply. Has a rugged full frame for protection.

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



SPECIFICATIONS

RT50YB80-3.8Q

Engine model	R210 / 7hp
Engine type	Single cylinder, 4 stroke, OHV
Starting system	Recoil start
Bore x stroke	70 x 55mm
Displacement	212ml
Compression ratio	9 : 1
Net power	4.4kw / 3600rpm
Fuel consumption	≤395 (g/kw-h)
Net torque	12N.m / 2500rpm
Pump set	2" high lift pump
Suction port diameter	50mm (2")
Discharge port diameter	1.5" / 1" / 1"
Suction head lift	7m
Total head lift	80m
Discharge capacity	16m³/h / 266 litres per minute
Dimensions (L x W x H mm)	500 x 395 x 446
Net weight	29.5kg

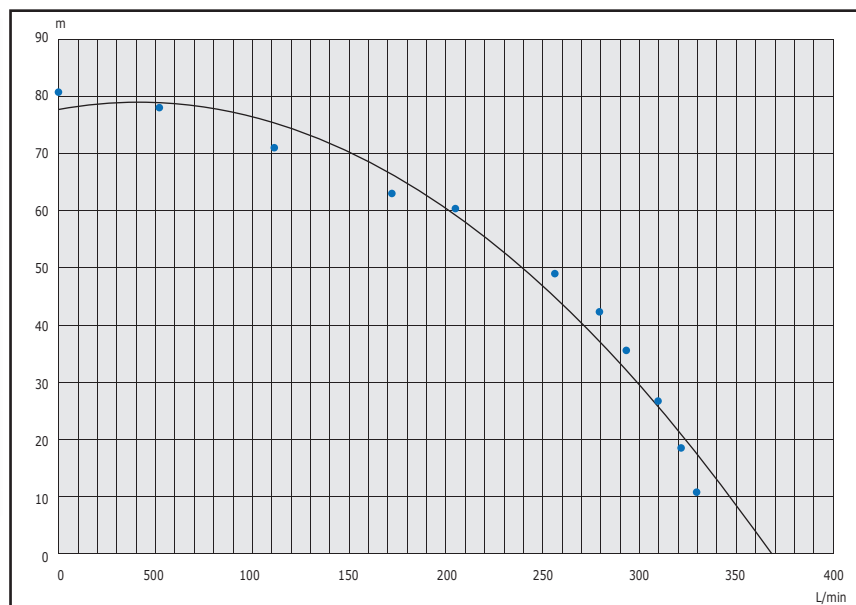
Features

- Transistorised ignition for reliable starting.
- Cast iron cylinder liner ensures consistent performance and durability.
- Rugged full frame protection.
- Powerful 7hp RATO engine.



Performance Curve

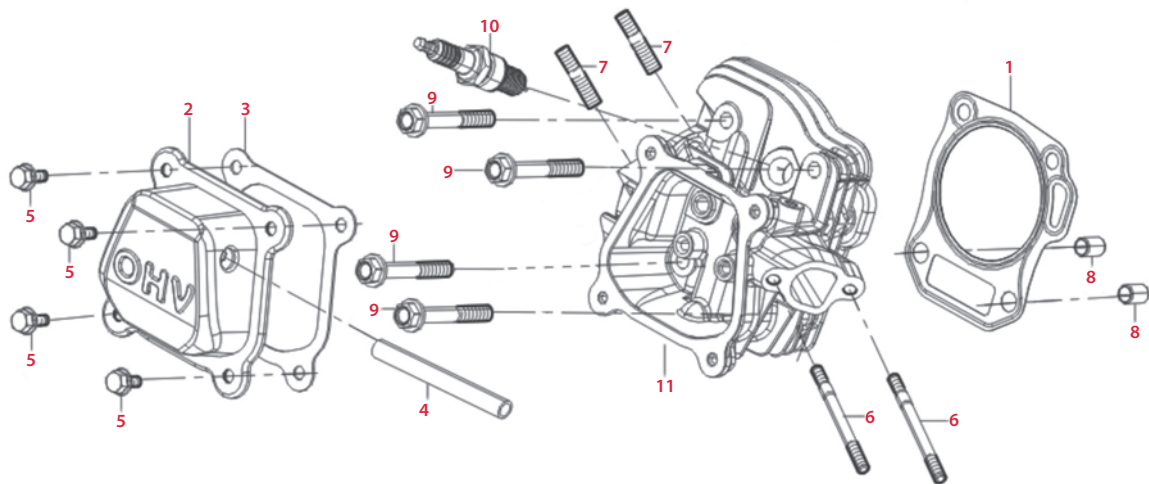
Unload Speed	Loading Speed	Suction Head Lift	Discharge Capacity (m³/h)	Discharge Capacity (L/min)	Total Head Lift (M)	Test Envir. Temp (C°)	Humidity at Outlet	Pressure at Outlet
3810	3400	7	19.8	330.00	10.9	30.5	62	87.7
	/		19.3	321.67	18.61			176.2
	/		18.6	310.00	26.8			235.8
	/		17.6	293.33	35.66			330.6
	/		16.8	280.00	42.28			379.1
	/		15.4	256.67	49.09			446.2
	/		12.3	205.00	60.27			550.9
	/		10.3	171.67	62.9			594
	/		6.7	111.67	70.96			651.4
	/		3.1	51.67	78.12			691.8
	/		0	0.00	80.44			720.4



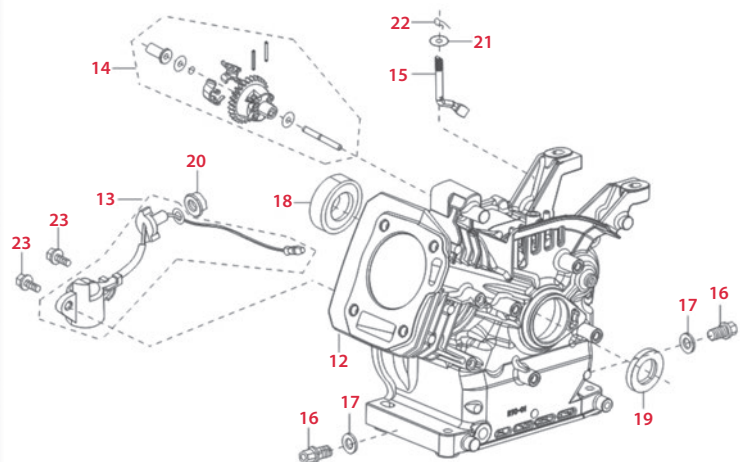
RT50YB80-3.8Q Twin Impeller High Pressure Pump

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
1	JMRT1001	12131-Z950110-0000	Cylinder head gasket
2	NS	12410-Z010220-H300	Cylinder head cover subassembly
3	JMRT1002	12004-Z010110-0000	Cylinder head cover gasket
4	NS	17004-Z050210-0000	Breather tube
5	NS	90001-0612-01	Bolt
6	NS	90204-Z010310-0000	Stud

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
7	NS	90203-Z010110-0000	Stud
8	NS	90502-1014-00	Pin
9	NS	12003-Z010110-0000	Cylinder head bolt
10	BPR6ES/ RN9YC	30010-Z010110-0000	Spark plug
11	NS	12140-Z040610-0000	Cylinder head subassembly



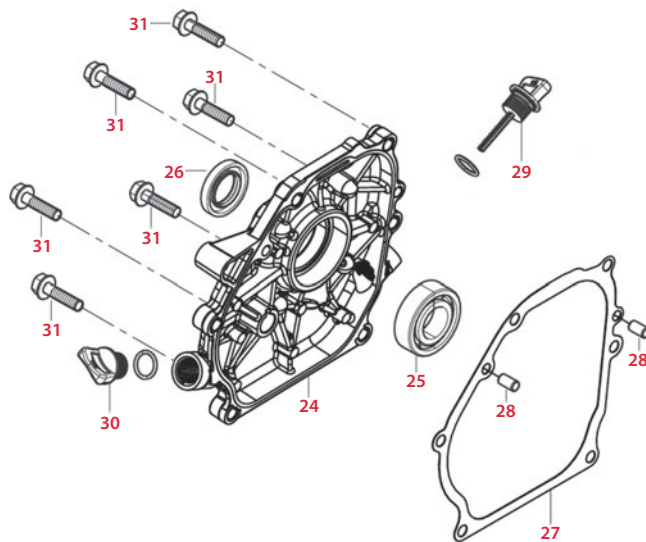
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase & Governor Gear Assembly (right)			
12	NS	11310-Z141220-0000	Crankcase assembly
13	JMRT1004	37060-Z010120-0000	Engine oil sensor
14	NS	16400-Z010110-0000	Governor gear assembly
15	NS	16061-Z010110-0000	Governor arm
16	NS	11007-Z010110-0000	Drain plug bolt
17	NS	90408-Z010110-0000	Washer
18	JMRT1008	90548-0205-CL	Bearing
19	JMRT1005	90682-Z300110-0000	Oil seal
20	NS	90305-Z010210-01	Nut
21	NS	90408-Z010210-0000	Governor gear washer
22	NS	90501-Z010110-0000	Pin
23	NS	90001-0614-01	Bolt



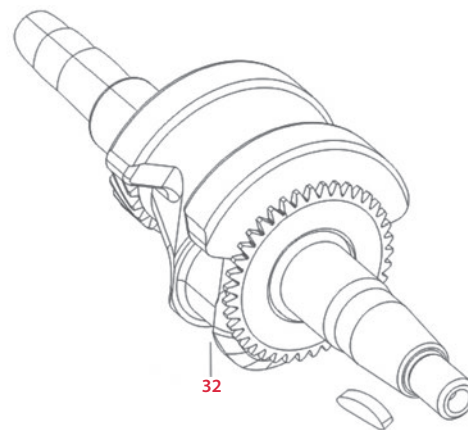
*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

RT50YB80-3.8Q Twin Impeller High Pressure Pump

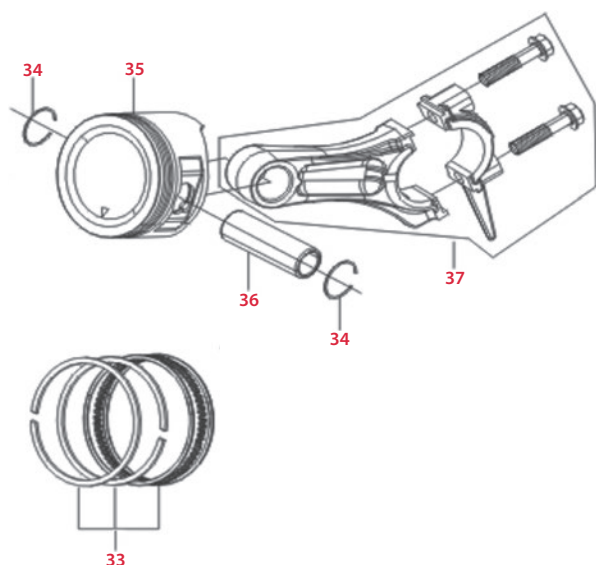
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly (below left)			
24	NS	11411-Z010310-0000	Crankcase cover
25	JMRT1008	90548-0205-CL	Bearing
26	JMRT1005	90682-Z300110-0000	Oil seal
27	JMRT1006	11001-Z440110-0000	Crankcase gasket
28	NS	90502-0812-00	Pin
29	JMRT1007	15010-Z010130-Q500	Oil dipstick subassembly
30	NS	15030-Z010130-Q500	Engine oil plug subassembly
31	NS	90001-0832-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below right)			
32	JMRT1009	13300-Z860610-0000	Crankshaft assembly



Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (right)			
33	JMRT1011	13200-Z140210-0099	Piston ring set
34	JMRT1012	13122-Z010110-0000	Piston pin clip
35	JMRT1013	13111-Z140220-0099	Piston
36	JMRT1014	13121-Z010110-0000	Piston pin
37	JMRT1016	13010-Z440210-0099	Connecting rod

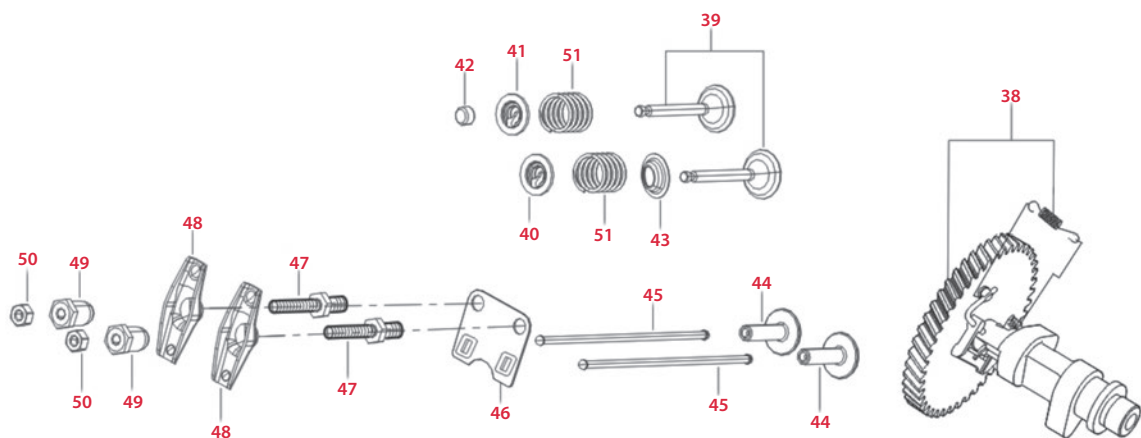


**NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.*

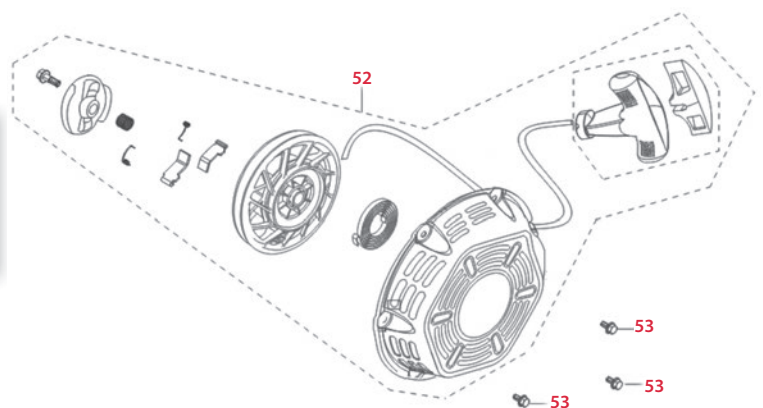
RT50YB80-3.8Q Twin Impeller High Pressure Pump

Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (below)			
38	JMRT1017	14200-Z300210-0000	Camshaft assembly
39	JMRT1018	12110-Z010110-0000	Valve set
40	NS	12112-Z010110-0000	Valve spring seat
41	JMRT1020	12107-Z010110-0000	Exhaust valve retainer
42	JMRT1021	12104-Z010110-0000	Valve rotator
43	JMRT1022	12101-Z810210-0000	Seal guide
44	JMRT1023	14081-Z040110-0000	Valve tappet

Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
45	JMRT1024	14071-Z010110-0000	Valve lifter
46	JMRT1025	14090-Z010110-0000	Lifter stopper plate subassembly
47	JMRT1026	14313-Z010110-0000	Valve adjusting bolt
48	JMRT1027	14311-Z010110-0000	Valve rocker
49	JMRT1028	14314-Z010110-0000	Valve adjusting nut
50	JMRT1029	14312-Z010110-0000	Valve lock nut
51	JMRT1030	12103-Z010110-0000	Valve spring



Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (right)			
52	JMRT1031	28200-Z140510-H700	Starter Recoil assembly
53	NS	90001-0608-01	Bolt

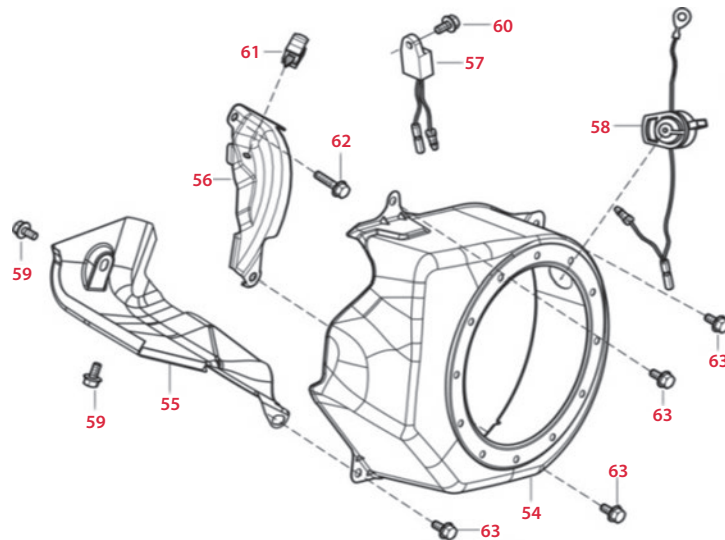


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RT50YB80-3.8Q Twin Impeller High Pressure Pump

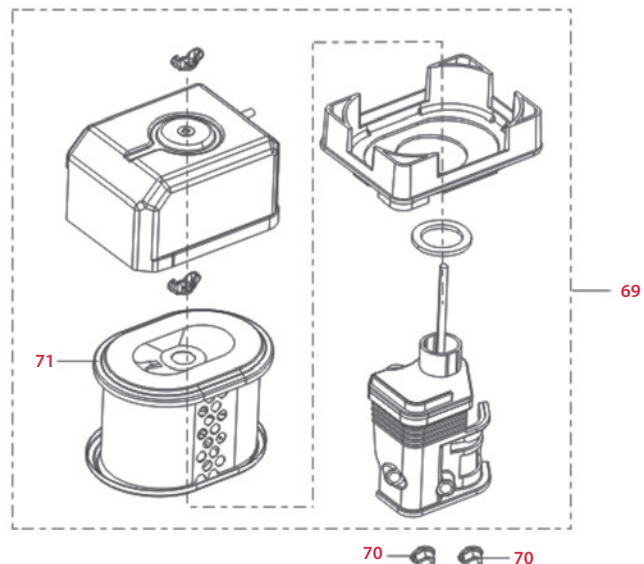
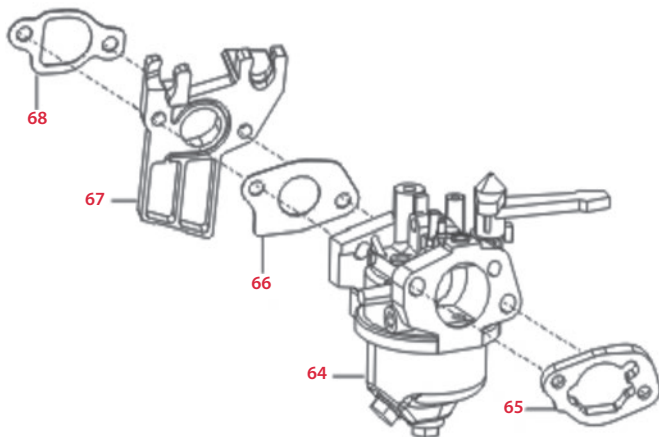
Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (below)			
54	NS	28110-Z010410-Y100	Shroud
55	NS	19304-Z010710-0000	Cylinder body shroud
56	NS	19340-Z010510-0000	Lower shield
57	NS	37050-Z010210-0000	Oil protector
58	JMRT1033	35540-Z060140-Q200	Stop engine switch subassembly

Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield - continued (below)			
59	NS	90001-0610-01	Bolt
60	NS	90001-0610-01	Bolt
61	NS	90740-Z010110-0000	Collar
62	NS	90001-0616-01	Bolt
63	NS	90001-0612-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below left)			
64	JMRT1035	16100-Z300510-0000	Carburettor assembly
65	JMRT1037	17001-Z010210-0000	Air cleaner gasket
66	JMRT1038	16001-Z010110-0000	Carburettor gasket
67	JMRT1039	16003-Z010110-0000	Carburettor insulator plate
68	JMRT1040	16002-Z010110-0000	Carburettor insulator gasket

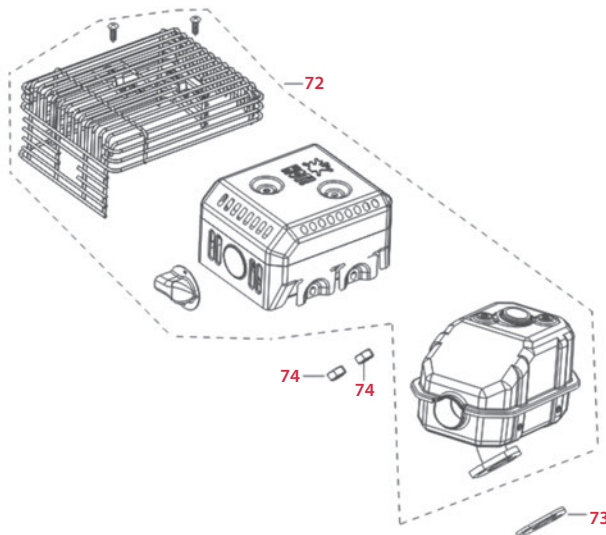
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below right)			
69	JMRT1371	17100-Z010210-0000	Air cleaner complete
70	NS	90305-0600-31	Nut
71	JMRT1042	17150-Z010110-0000	Air cleaner element



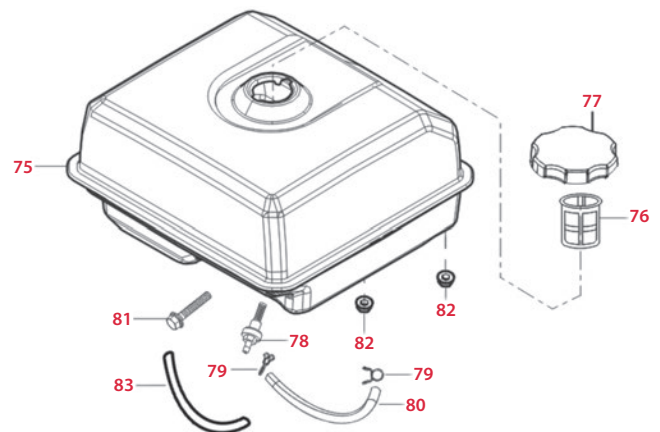
*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

RT50YB80-3.8Q Twin Impeller High Pressure Pump

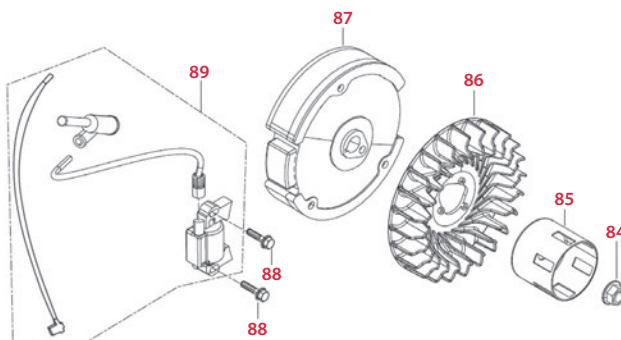
Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below left)			
72	JMRT1043	18100-Z010510-H300	Muffler assembly
73	JMRT1045	18001-Z010110-0000	Exhaust outlet gasket
74	NS	90303-0800-31	Nut



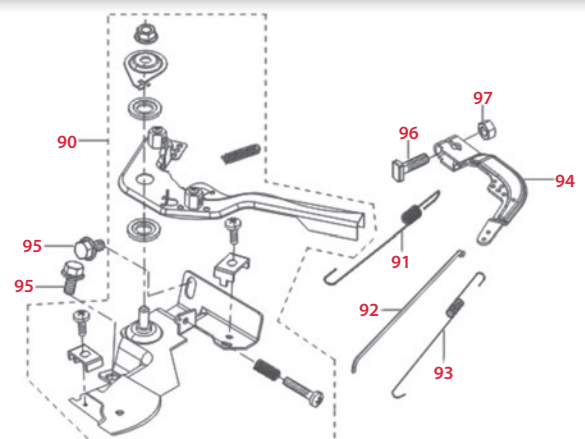
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (below right)			
75	JMRT1046	16620-Z860210-H700	Fuel tank
76	JMRT1047	16652-Z010810-0000	Fuel strainer
77	JMRT1048	16730-Z010820-0000	Fuel tank cap
78	JMRT1049	16680-Z010110-0000	Fuel tank oil outlet subassembly
79	NS	90740-Z010210-0000	Clamp
80	NS	90686-Z010510-0000	Fuel tube
81	NS	90001-0630-01	Bolt
82	NS	90305-0600-31	Nut
83	NS	30431-Z010110-0000	Rubber jacket



Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (below)			
84	NS	13501-Z010110-0000	Nut
85	JMRT1051	28002-Z300210-0000	Starter cup
86	NS	19352-Z010310-0000	Impeller
87	NS	13510-Z300110-0000	Flywheel subassembly
88	NS	90001-0625-01	Bolt
89	JMRT1052	30400-Z440110-0100	Ignition coil



Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (below right)			
90	NS	16520-Z440110-0000	Throttle control assembly
91	JMRT1053	16063-Z050120-0000	Governor spring
92	NS	16062-Z010110-0000	Governor rod
93	JMRT1054	16012-Z010110-0000	Throttle valve returning spring
94	NS	16070-Z010110-0000	Governor support subassembly
95	NS	90001-0610-01	Bolt
96	NS	16072-Z010110-0000	Governor support bolt
97	NS	90305-0600-31	Nut

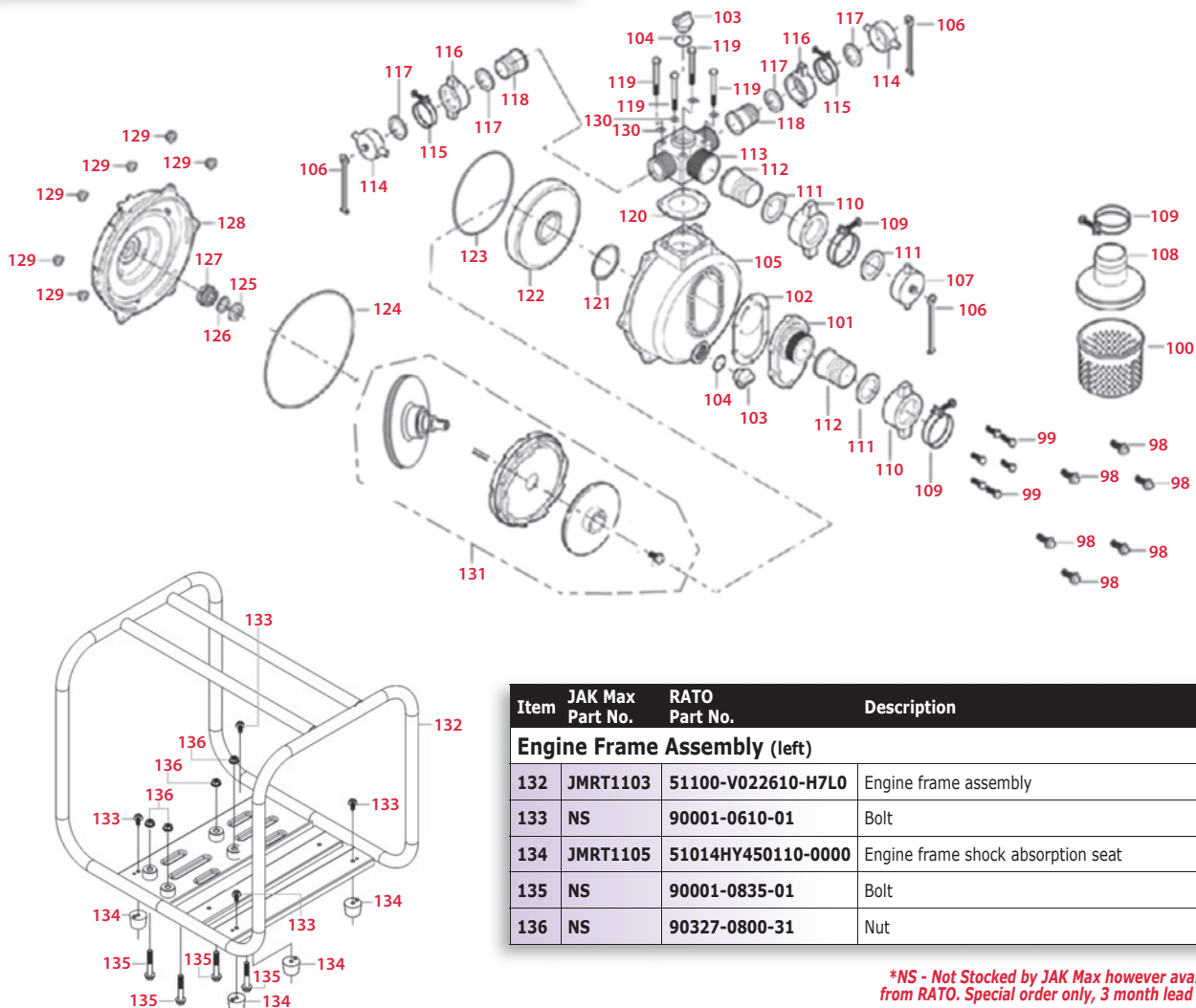


*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

RT50YB80-3.8Q Twin Impeller High Pressure Pump

Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly (below)			
98	NS	90007-1030-01	Bolt
99	NS	90005-0825-01	Bolt
100	JMRT1100	70114-V010110	Filter
101	JMRT1094	70116-V070210	Water inlet
102	JMRT1093	70115-V070210-0000	Inlet water gasket
103	JMRT1095	70107-V070210	Thread plug
104	NS	70122-V070210	Screw plug washer
105	JMRT1059	70105-V070510-0000	Pump body
106	NS	70138-V100110	
107	NS	70137-V100110	
108	JMRT1099	70113-V010110	Filter cover
109	JMRT1101	70400-V010110	Hose hoop subassembly
110	JMRT1096	70111-V010110	Hose joint
111	JMRT1097	70131-V010110	Hose joint seal ring
112	JMRT1098	70112-V010110	Hose interface
113	JMRT1065	70108-V070910-0000	Water outlet
114	JMRT1066	70137-V070510-0000	Outlet cover
115	JMRT1067	70400-V040110-0K00	Hose hoop subassembly

Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly - continued (below)			
116	JMRT1068	70111-V040110-0000	Hose joint
117	JMRT1069	70131-V040110-0000	Hose joint seal ring
118	JMRT1070	70112-V040110-0000	Hose interface
119	NS	90004-0875-01	Nut
120	JMRT1091	70109-V100110	Outlet gasket
121	JMRT1089	70104-V100110	Whorl case sealing ring
122	JMRT1073	70103-V100410-0000	Whorl case
123	JMRT1074	70136-V100410-0000	Impeller sleeve ring
124	NS	70119-V070210	Water pump joint cushion
125	JMRT1087	70125-V070210-0000	Impeller seal ring
126	JMRT1076	70309-V100110	Porcelain seal
127	JMRT1077	70300-V100210-0000	Mechanism seal assembly
128	JMRT1078	70118-V070610-0000	Water pump joint
129	NS	90306-1000-31	Nut
130	NS	90408-0800-01	
131	JMRT1079	70250-V100410-0000	Twin impeller set
	JMRT1080	70100-V100110-0K00	Water pump assembly



Item	JAK Max Part No.	RATO Part No.	Description
Engine Frame Assembly (left)			
132	JMRT1103	51100-V022610-H7L0	Engine frame assembly
133	NS	90001-0610-01	Bolt
134	JMRT1105	51014HY450110-0000	Engine frame shock absorption seat
135	NS	90001-0835-01	Bolt
136	NS	90327-0800-31	Nut

*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

RT50ZB28-3.6Q Clean Water Pump



Product Information

The RATO RT50ZB28-3.6Q clean water pump (2" standard transfer pump) features a unique design and is manufactured for general water pumping applications with high delivery rates. Features a tough aluminium housing and corrosion resistant e-coated rugged full frame with anti-vibration mounts.

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

Features

- OHV 7hp engine technology by RATO.
- Cast iron volute and impeller with a silicon carbide seal.
- Complete accessories available.
- Scroll case is located by positioning pin for more reliable use.
- Anti-winding ring, so clear water pump has the function of dust water pump.
- Separated shock pad design for the support base, to minimize shock.

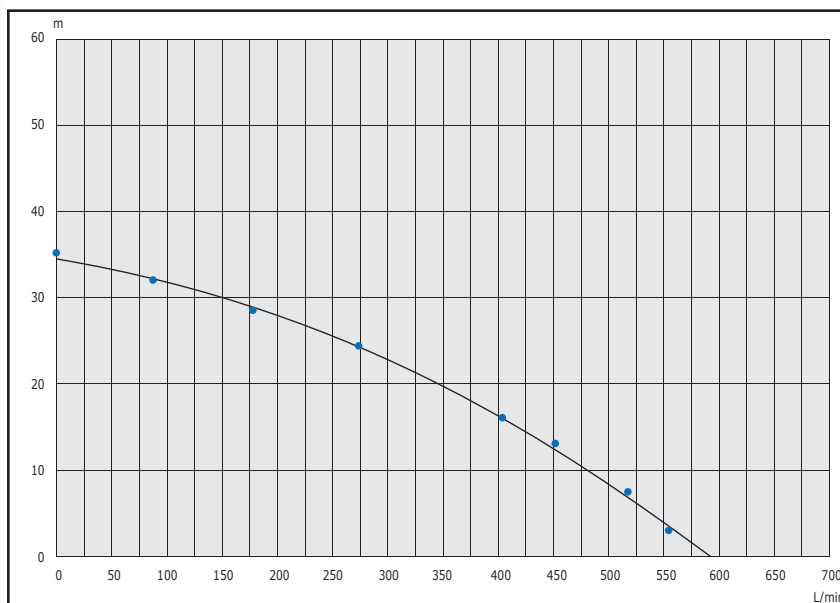


SPECIFICATIONS

RT50ZB28-3.6Q

Engine model	R210 / 7hp
Engine type	Single cylinder, 4 stroke, OHV
Starting system	Recoil start
Bore x stroke	70 x 55mm
Displacement	212ml
Compression ratio	9 : 1
Net power	4.4kw / 3600rpm
Fuel consumption	≤395 (g/kw-h)
Net torque	12N.m / 2500rpm
Pump set	2" clean pump
Suction port diameter	50mm (2")
Discharge port diameter	50mm (2")
Suction head lift	8m
Total head lift	28m
Discharge capacity	36m³/h / 600 litres per minute
Dimensions (L x W x H mm)	477 x 395 x 410
Net weight	23.5kg

Performance Curve



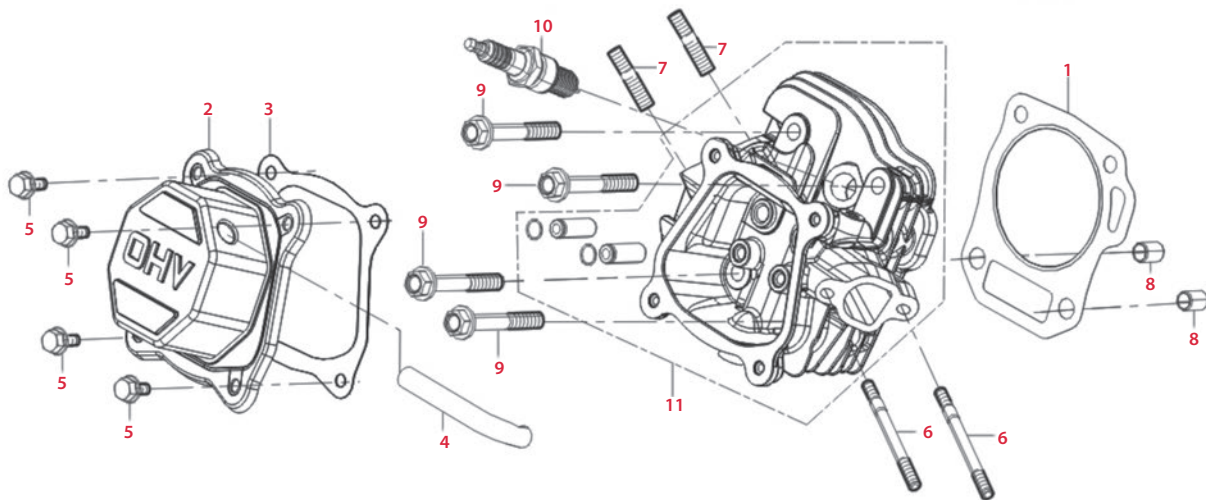
Unload Speed	Loading Speed	Suction Head Lift	Discharge Capacity (m³/h)	Discharge Capacity (L/min)	Total Head Lift (M)	Test Envir. Temp (C°)	Humidity at Outlet	Pressure at Outlet
3800	3400	8.1	33.2	553.33	2.91	18.5	65	20.1
	/		31	516.67	7.32	18.5	65	62.1
	/		27.1	451.67	12.94	18.5	65	105.5
	/		24.2	403.33	16.09	18.5	65	136.9
	/		20.3	338.33	20.62	18.5	65	170
	/		16.4	273.33	24.09	18.5	65	207.5
	/		10.7	178.33	28.26	18.5	65	247.8
	/		5.3	88.33	31.93	18.5	65	280.8
	/		0	0.00	35.01	18.5	65	305.6

RT50ZB28-3.6Q Clean Water Pump

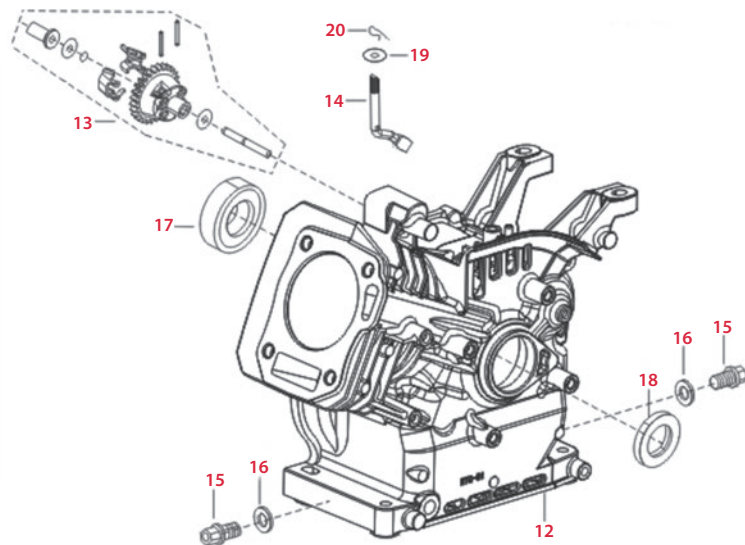
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
1	JMRT1101	12131-Z040110-0000	Cylinder head gasket
2	NS	12410-Z440110-0099	Cylinder head cover subassembly
3	NS	12004-Z440110-0000	Cylinder head cover gasket
4	NS	17004-Z010310-0000	Breather tube
5	NS	90001-0612-01	Bolt
6	NS	90204-Z010310-0000	Stud

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
7	NS	90203-Z010110-0000	Stud
8	NS	90502-1014-00	Pin
9	NS	12003-Z010110-0000	Cylinder head bolt
10	JMRT1107	30010-Z010210-0000	Spark plug
11	NS	12140-Z040610-0000	Cylinder head subassembly



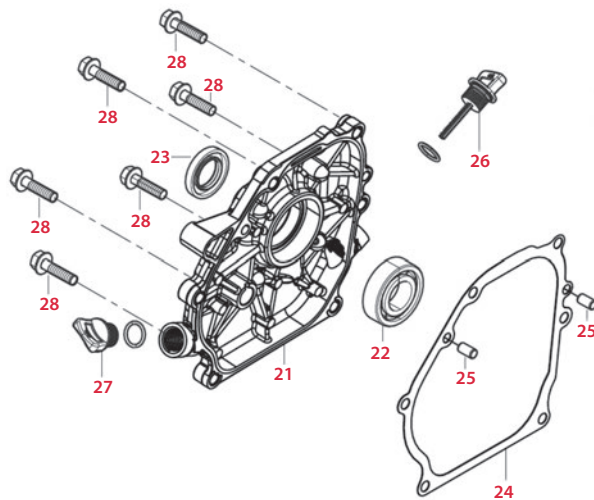
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase & Governor Gear Assembly (right)			
12	NS	11310-Z300710-0000	Crankcase assembly
13	NS	16400-Z010110-0000	Governor gear assembly
14	NS	16061-Z010110-0000	Governor arm
15	NS	11007-Z010110-0000	Drain plug bolt
16	NS	90408-Z010110-0000	Washer
17	JMRT1008	90548-0205-CL	Bearing
18	JMRT1005	90682-Z300110-0000	Oil seal
19	NS	90408-Z010210-0000	Governor gear washer
20	NS	90501-Z010110-0000	Pin



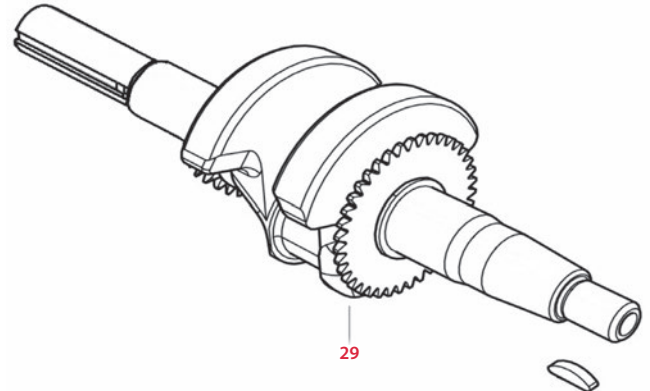
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RT50ZB28-3.6Q Clean Water Pump

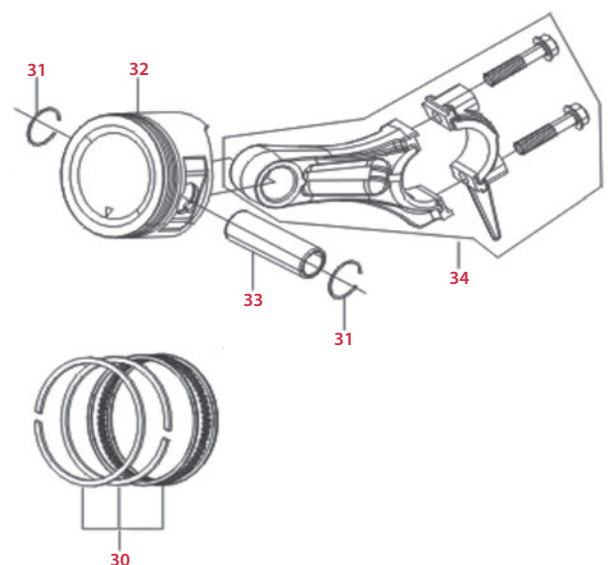
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly (below left)			
21	NS	11411-Z010310-0000	Crankcase cover
22	JMRT1008	90548-0205-CL	Bearing
23	JMRT1005	90682-Z300110-0000	Oil seal
24	JMRT1006	11001-Z010120-0000	Crankcase gasket
25	NS	90502-0812-00	Pin
26	JMRT1007	15010-Z010120-Q500	Oil dipstick subassembly
27	NS	15030-Z010120-Q500	Engine oil plug subassembly
28	NS	90001-0832-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below right)			
29	JMRT1010	13300-Z040210-0000	Crankshaft assembly



Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (right)			
30	JMRT1011	13200-Z300110-0000	Piston ring set
31	JMRT1012	13122-Z010110-0000	Piston pin clip
32	JMRT1013	13111-Z300110-0000	Piston
33	JMRT1014	13121-Z010110-0000	Piston pin
34	JMRT1016	13010-Z360110-0000	Connecting rod

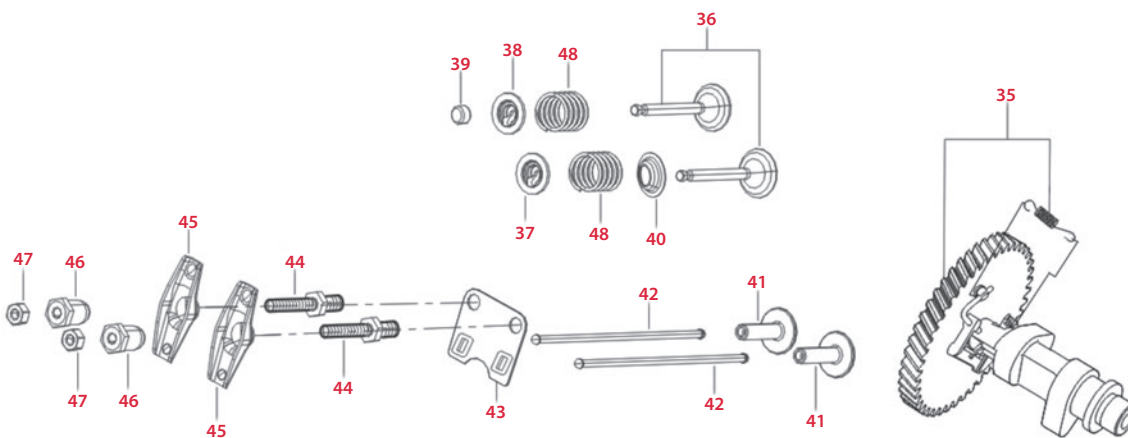


RT50ZB28-3.6Q Clean Water Pump

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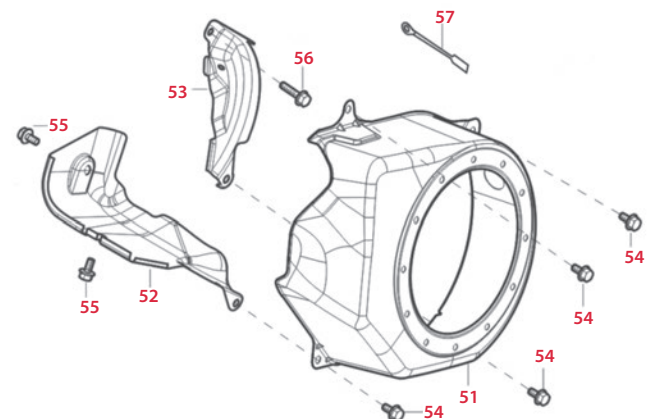
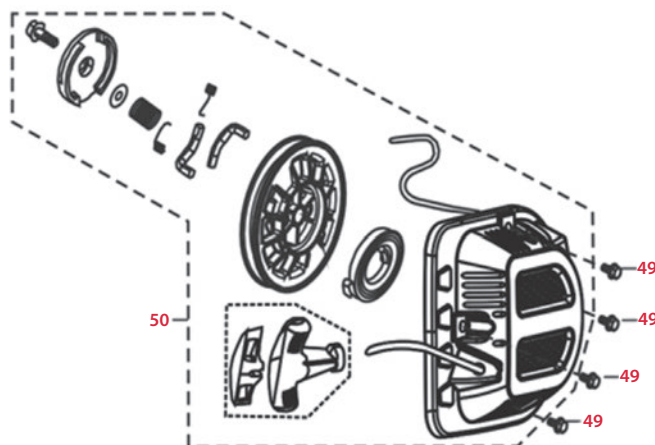
Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (below)			
35	JMRT1017	14200-Z300210-0000	Camshaft assembly
36	JMRT1018	12110-Z010110-0000	Valve set
37	NS	12112-Z010110-0000	Valve spring seat
38	JMRT1020	12107-Z010110-0000	Exhaust valve retainer
39	JMRT1021	12104-Z010110-0000	Valve rotator
40	JMRT1022	12101-Z810210-0000	Seal guide
41	JMRT1023	14081-Z040110-0000	Valve tappet

Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
42	JMRT1024	14071-Z010110-0000	Valve lifter
43	JMRT1025	14090-Z010110-0000	Lifter stopper plate subassembly
44	JMRT1026	14313-Z010110-0000	Valve adjusting bolt
45	JMRT1027	14311-Z010110-0000	Valve rocker
46	JMRT1028	14314-Z010110-0000	Valve adjusting nut
47	JMRT1029	14312-Z010110-0000	Valve lock nut
48	JMRT1030	12103-Z010110-0000	Valve spring



Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (below left)			
49	NS	90001-0612-01	Bolt
50	JMRT1031	28200-Z010320-Q200	Starter Recoil assembly

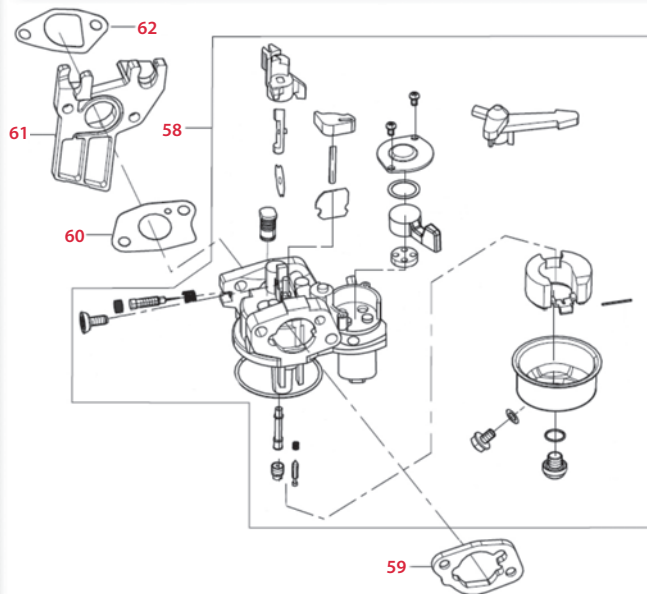
Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (below right)			
51	NS	28110-Z010410-Y100	Shroud
52	NS	19304-Z010410-0000	Cylinder body shroud
53	NS	19340-Z010120-0000	Lower shield
54	NS	90001-0612-01	Bolt
55	NS	90001-0610-01	Bolt
56	NS	90001-0616-01	Bolt
57	NS	30009-Z010110-0000	



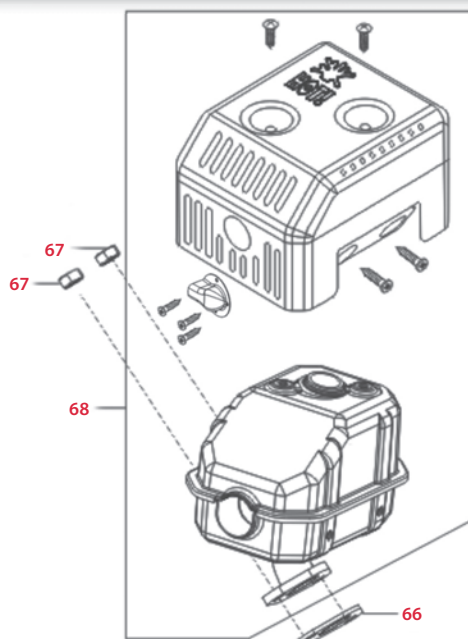
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

RT50ZB28-3.6Q Clean Water Pump

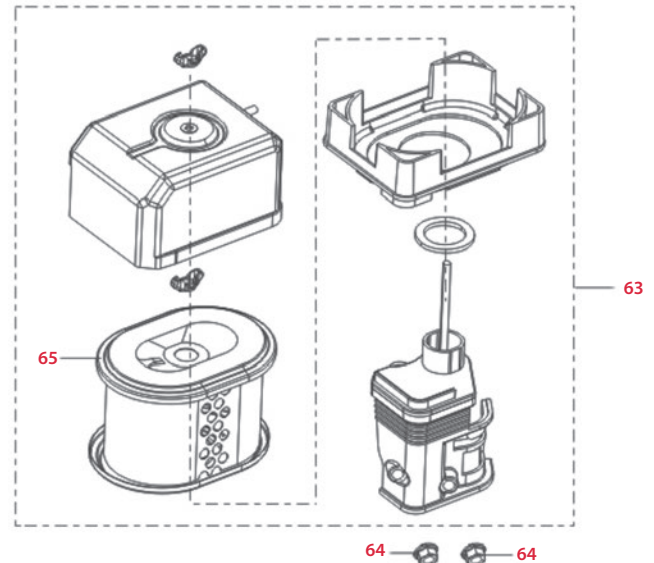
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below left)			
58	JMRT1035	16100-Z040210-0000	Carburettor assembly
59	JMRT1037	17001-Z010210-0000	Air cleaner gasket
60	JMRT1038	16001-Z300110-0000	Carburettor gasket
61	JMRT1039	16003-Z010110-0000	Carburettor insulator plate
62	JMRT1040	16002-Z300110-0000	Carburettor insulator gasket



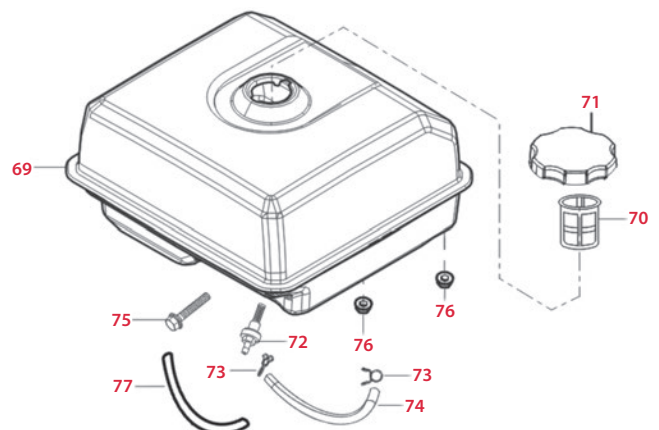
Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below left)			
66	JMRT1045	18001-Z300110-0000	Exhaust outlet gasket
67	NS	90303-0800-31	Nut
68	JMRT1043	18100-Z010710-H300	Muffler assembly



Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below right)			
63	JMRT1371	17100-Z010210-0000	Air cleaner complete
64	NS	90305-0600-31	Nut
65	JMRT1042	17150-Z010110-0000	Air cleaner element



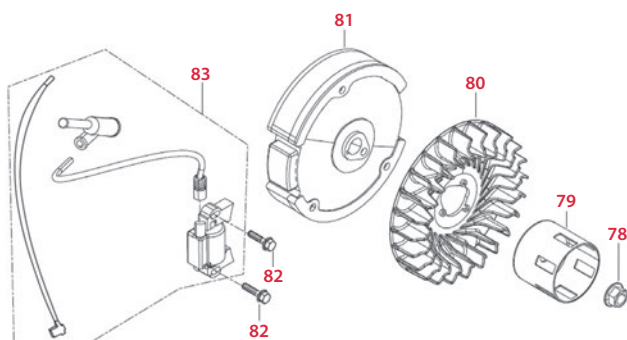
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (below right)			
69	JMRT1046	16620-Z440120-Y100	Fuel tank
70	JMRT1047	16652-Z010610-0000	Fuel strainer
71	JMRT1048	16730-Z300120-0000	Fuel tank cover
72	JMRT1049	16680-Z010110-0000	Fuel tank oil outlet subassembly
73	NS	90740-Z010210-0000	Clamp
74	NS	90686-Z010510-0000	Fuel tube
75	NS	90007-0630-A1	Bolt
76	NS	90305-0600-31	Nut
77	NS	30431-Z010110-0000	Rubber jacket



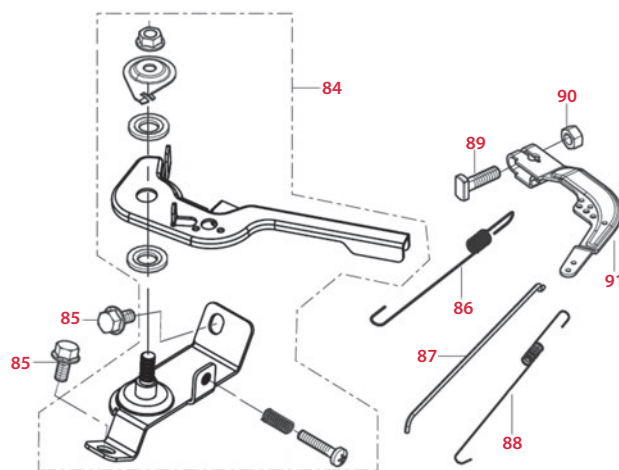
RT50ZB28-3.6Q Clean Water Pump

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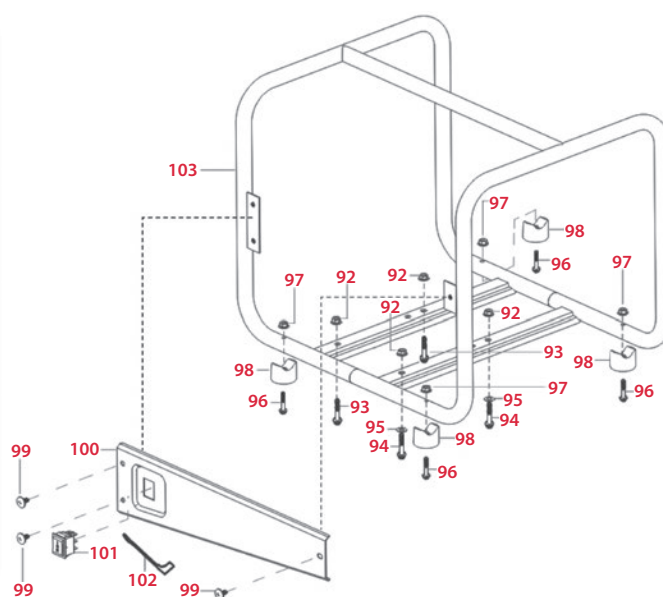
Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (below)			
78	NS	13501-Z010110-0000	Flywheel nut
79	JMRT1051	28002-Z300210-0000	Starter cup
80	NS	19352-Z010310-0000	Impeller
81	NS	13510-Z010110-0000	Flywheel subassembly
82	NS	90001-0625-01	Bolt
83	JMRT1052	30400-Z010210-0000	Ignition coil



Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (below right)			
84	NS	16520-Z010230-0000	Throttle control assembly
85	NS	90001-0610-01	Bolt
86	JMRT1053	16063-Z010110-0000	Governor spring
87	NS	16062-Z010110-0000	Governor rod
88	JMRT1054	16012-Z010110-0000	Spring, throttle valve returning
89	NS	16072-Z010110-0000	Governor support bolt
90	NS	90305-0600-31	Nut
91	NS	16070-Z010110-0000	Governor support subassembly



Item	JAK Max Part No.	RATO Part No.	Description
Engine Frame Assembly (right)			
92	NS	90327-0800-31	Nut
93	NS	90001-0835-01	Bolt
94	NS	90001-0825-01	Bolt
95	NS	90406-0800-E1	Washer
96	NS	90001-0635-01	Bolt
97	NS	90305-0600-31	Nut
98	JMRT1166	51014HX090120-0000	Engine frame shock absorption seat
99	NS	90111-Y460110-0000	Bolt
100	NS	51025-V330110-H700	Decorative frame
101	NS	35160-Y450110-QG00	Switch subassembly
102	NS	35541-V330210-0000	Stop engine wire
103	JMRT1164	51100-V330210-H7L0	Engine frame assembly

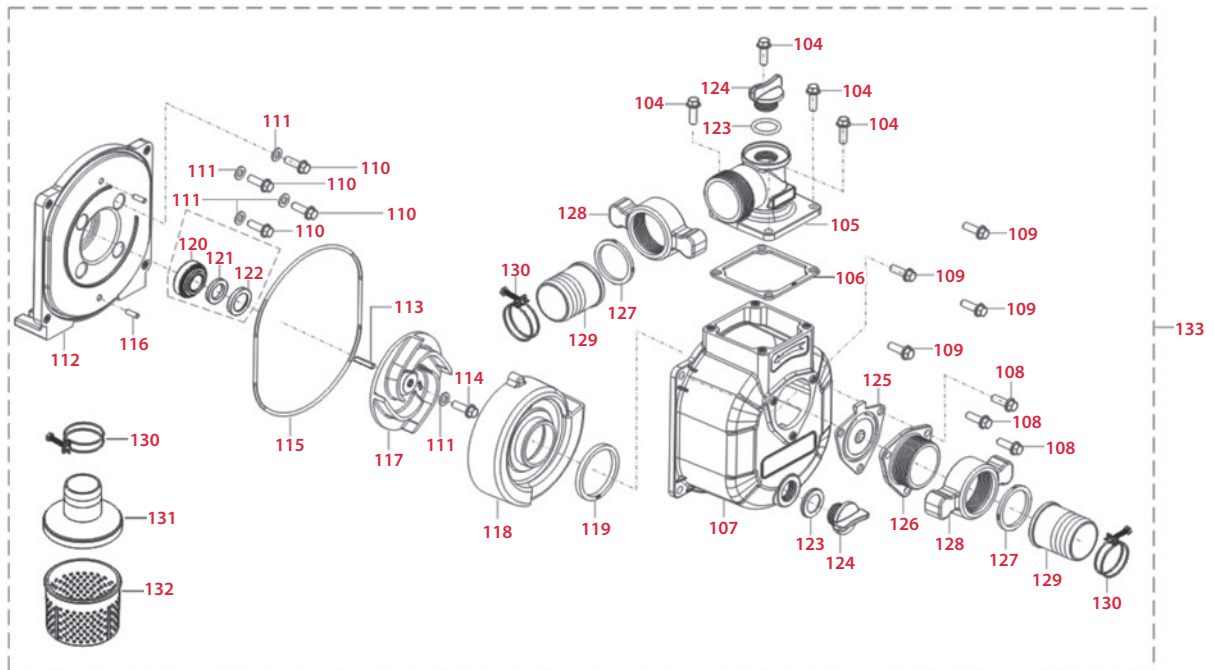


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RT50ZB28-3.6Q Clean Water Pump

Item	JAK Max Part No.	RATC Part No.	Description
Pump Assembly (below)			
104	NS	90001-0820-51	Bolt
105	JMRT1122	70108-V330110-0000	Water outlet
106	JMRT1123	70109-V330110-0000	Outlet gasket
107	JMRT1124	70105-V330110-0000	Pump body
108	NS	90001-0820-51	Bolt
109	NS	90001-0825-01	Bolt
110	NS	90001-V020110-0000	Bolt
111	NS	90409-V260110-0000	Washer
112	JMRT1125	70118-V330110-0000	Water pump joint
113	NS	90522-V010110-0000	Key
114	NS	90001-V070110-0000	Bolt
115	JMRT1126	70119-V330110-0000	Water pump joint cushion
116	NS	90505-0618-00	Pin
117	JMRT1127	70102-V330110-0000	Water pump impeller
118	JMRT1128	70103-V330110-0000	Whorl case

Item	JAK Max Part No.	RATC Part No.	Description
Pump Assembly - continued (below)			
119	JMRT1129	70104-V330110-0000	Whorl case sealing ring
120	JMRT1151	70300-V260210-0000	Mechanical seal assembly
121	JMRT1152	70309-V260210-0000	Porcelain seal
122	JMRT1153	70125-V260210-0000	Washer
123	NS	70122-V260110-0000	Screw plug washer
124	JMRT1154	70107-V330110-0000	Thread plug
125	JMRT1134	70115-V330110-0000	Inlet water gasket
126	JMRT1135	70116-V330110-0000	Water inlet
127	JMRT1136	70131-V330110-0000	Hose joint seal ring
128	JMRT1137	70111-V260310-0000	Hose joint
129	JMRT1138	70112-V260310-0000	Hose interface
130	JMRT1139	70400-V260110-0000	Hose hoop assembly
131	JMRT1140	70113-V260110-0000	Filter cover
132	JMRT1141	70114-V260110-0000	Filter
133	JMRT1142	70100-V330710-0K00	Water pump assembly



RT80ZB28-3.6Q Clean Water Pump

Product Information

The RATO RT80ZB28-3.6Q clean water pump (3" standard transfer pump) features a unique design and is manufactured for general water pumping applications with high delivery rates. Features a tough aluminium housing and corrosion resistant e-coated rugged full frame with anti-vibration mounts. All RATO products are covered by our 12 month/500 hour warranty.



SPECIFICATIONS

RT80ZB28-3.6Q

Engine model	R210 / 7hp
Engine type	Single cylinder, 4 stroke, OHV
Starting system	Recoil start
Bore x stroke	70 x 55mm
Displacement	212ml
Compression ratio	9 : 1
Net power	4.4kw / 3600rpm
Fuel consumption	≤395 (g/kw-h)
Net torque	12N.m / 2500rpm
Pump set	3" clean pump
Suction port diameter	75mm (3")
Discharge port diameter	75mm (3")
Suction head lift	8m
Total head lift	28m
Discharge capacity	60m³/h / 1000 litres per minute
Dimensions (L x W x H mm)	500 x 395 x 445
Net weight	25.5kg

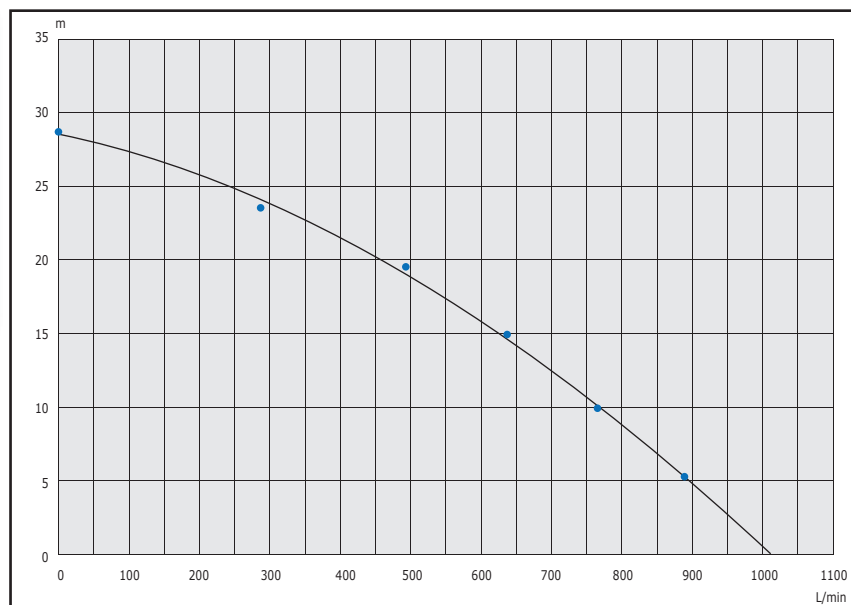
Features

- OHV 7hp engine technology by RATO.
- Cast iron volute and impeller with a silicon carbide seal.
- Complete accessories available.
- Scroll case is located by positioning pin for more reliable use.
- Anti-winding ring, so clear water pump has the function of dust water pump.
- Separated shock pad design for the support base, to minimize shock.



Performance Curve

Unload Speed	Loading Speed	Suction Head Lift	Discharge Capacity (m³/h)	Discharge Capacity (L/min)	Total Head Lift (M)	Test Envir. Temp (°C)	Humidity at Outlet	Pressure at Outlet
3820	3400	8.32	53.2	886.67	5.36	13.6	100	49.1
			45.9	765.00	10.04	13.6	100	92
			38	633.33	14.88	13.6	100	136.3
			29.5	491.67	19.49	13.6	100	178.5
			17.2	286.67	23.53	13.6	100	215.5
			0	0.00	28.73	13.6	100	263.1

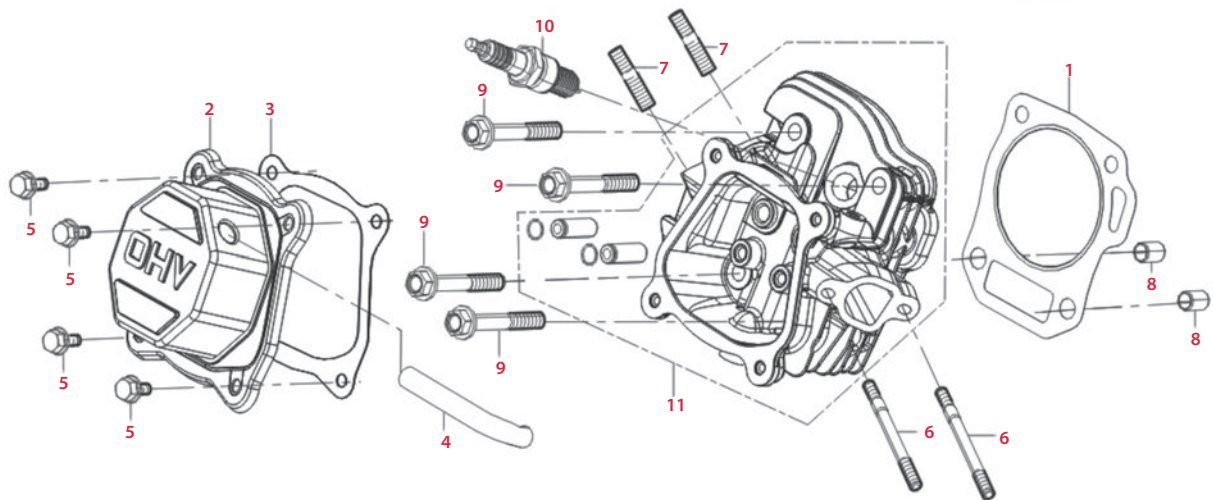


*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

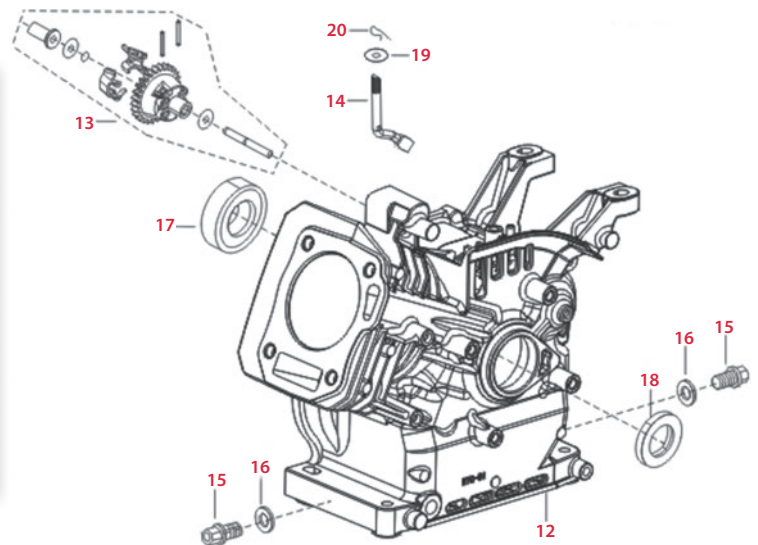
RT80ZB28-3.6Q Clean Water Pump

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
1	JMRT1105	12131-Z040110-0000	Cylinder head gasket
2	NS	12410-Z440110-0099	Cylinder head cover subassembly
3	NS	12004-Z440110-0000	Cylinder head cover gasket
4	NS	17004-Z010310-0000	Breather tube
5	NS	90001-0612-01	Bolt
6	NS	90204-Z010310-0000	Stud

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug- continued (below)			
7	NS	90203-Z010110-0000	Stud
8	NS	90502-1014-00	Pin
9	NS	12003-Z010110-0000	Cylinder head bolt
10	JMRT1107	30010-Z010210-0000	Spark plug
11	NS	12140-Z040610-0000	Cylinder head subassembly



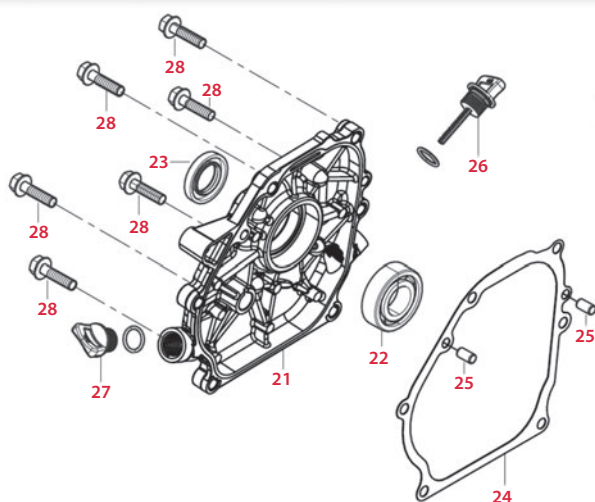
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase & Governor Gear Assembly (right)			
12	NS	11310-Z300710-0000	Crankcase assembly
13	NS	16400-Z010110-0000	Governor gear assembly
14	NS	16061-Z010110-0000	Governor arm
15	NS	11007-Z010110-0000	Drain plug bolt
16	NS	90408-Z010110-0000	Washer
17	JMRT1008	90548-0205-CL	Bearing
18	JMRT1005	90682-Z300110-0000	Oil seal
19	NS	90408-Z010210-0000	Governor gear washer
20	NS	90501-Z010110-0000	Pin



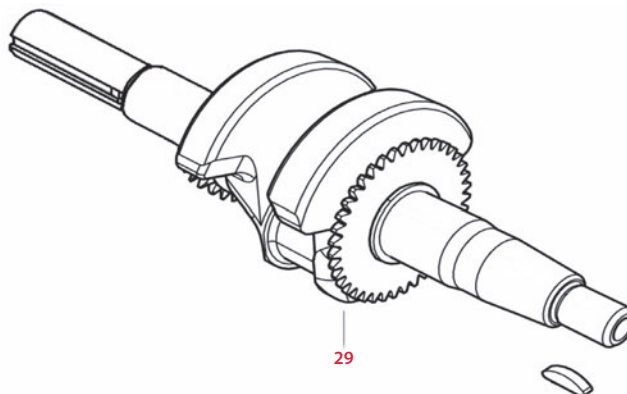
RT80ZB28-3.6Q Clean Water Pump

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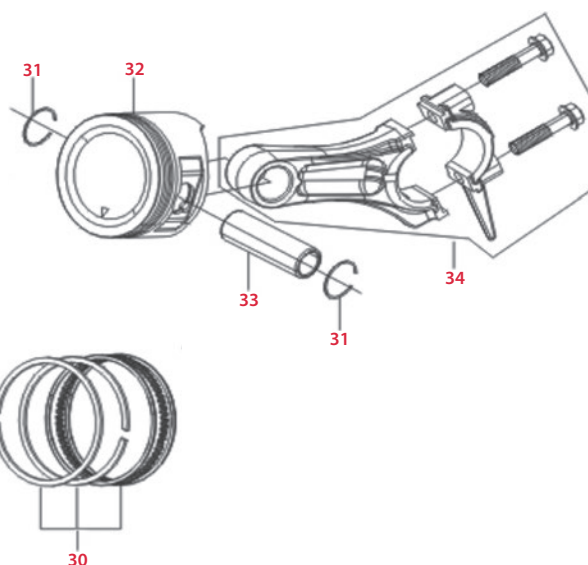
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly (below left)			
21	NS	11411-Z010310-0000	Crankcase cover
22	JMRT1008	90548-0205-CL	Bearing
23	JMRT1005	90682-Z300110-0000	Oil seal
24	JMRT1007	11001-Z010120-0000	Crankcase gasket
25	NS	90502-0812-00	Pin
26	JMRT1007	15010-Z010120-Q500	Oil dipstick subassembly
27	NS	15030-Z010120-Q500	Engine oil plug subassembly
28	NS	90001-0832-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below right)			
29	JMRT1010	13300-Z140330-0000	Crankshaft assembly



Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (right)			
30	JMRT1011	13200-Z300110-0000	Piston rings set
31	JMRT1012	13122-Z010110-0000	Piston pin clip
32	JMRT1013	13111-Z300110-0000	Piston
33	JMRT1014	13121-Z010110-0000	Piston pin
34	JMRT1016	13010-Z360110-0000	Connecting rod

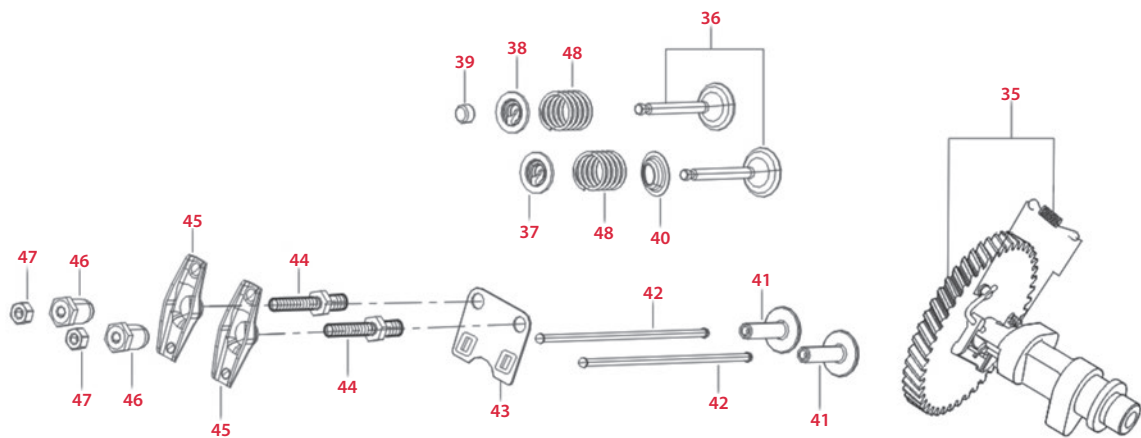


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RT80ZB28-3.6Q Clean Water Pump

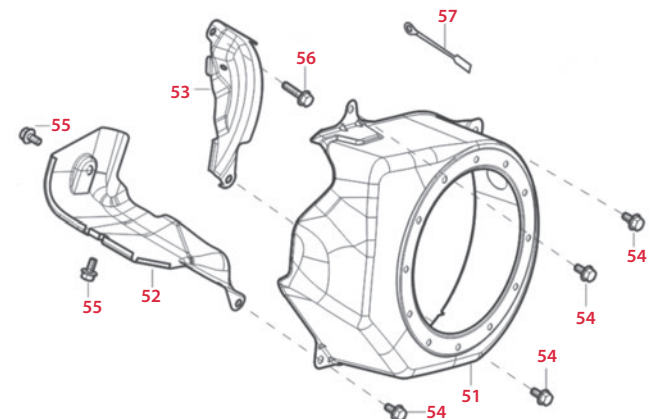
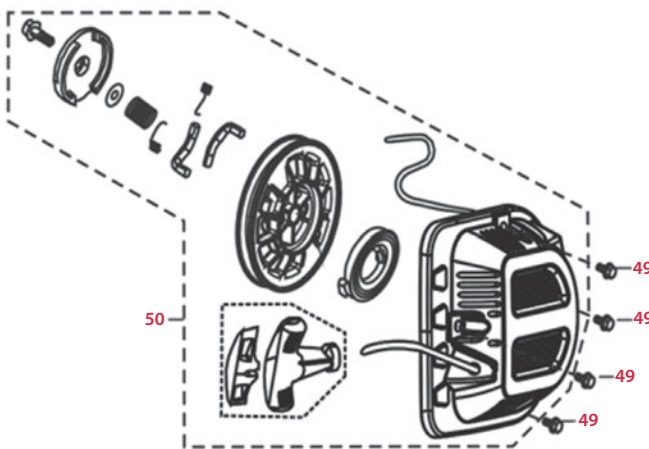
Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (below)			
35	JMRT1017	14200-Z300210-0000	Camshaft assembly
36	JMRT1018	12110-Z010110-0000	Valve set
37	NS	12112-Z010110-0000	Valve spring seat
38	JMRT1020	12107-Z010110-0000	Exhaust valve retainer
39	JMRT1021	12104-Z010110-0000	Valve rotator
40	JMRT1022	12101-Z810210-0000	Seal guide
41	JMRT1023	14081-Z040110-0000	Valve tappet

Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
42	JMRT1024	14071-Z010110-0000	Valve lifter
43	JMRT1025	14090-Z010110-0000	Lifter stopper plate subassembly
44	JMRT1026	14313-Z010110-0000	Valve adjusting bolt
45	JMRT1027	14311-Z010110-0000	Valve rocker
46	JMRT1028	14314-Z010110-0000	Valve adjusting nut
47	JMRT1029	14312-Z010110-0000	Valve lock nut
48	JMRT1030	12103-Z010110-0000	Valve spring



Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (below left)			
49	NS	90001-0612-01	Bolt
50	JMRT1031	28200-Z010320-Q200	Starter Recoil assembly

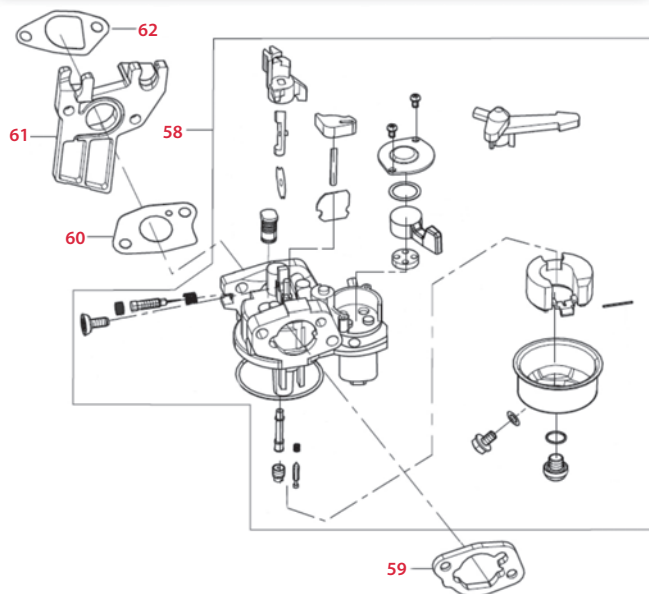
Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (below right)			
51	NS	28110-Z010410-Y100	Shroud
52	NS	19304-Z010410-0000	Cylinder body shroud
53	NS	19340-Z010120-0000	Lower shield
54	NS	90001-0612-01	Bolt
55	NS	90001-0610-01	Bolt
56	NS	90001-0616-01	Bolt
57	NS	30009-Z010110-0000	



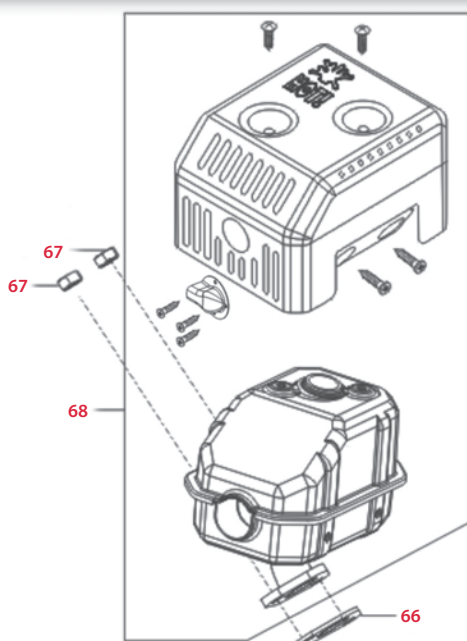
RT80ZB28-3.6Q Clean Water Pump

*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

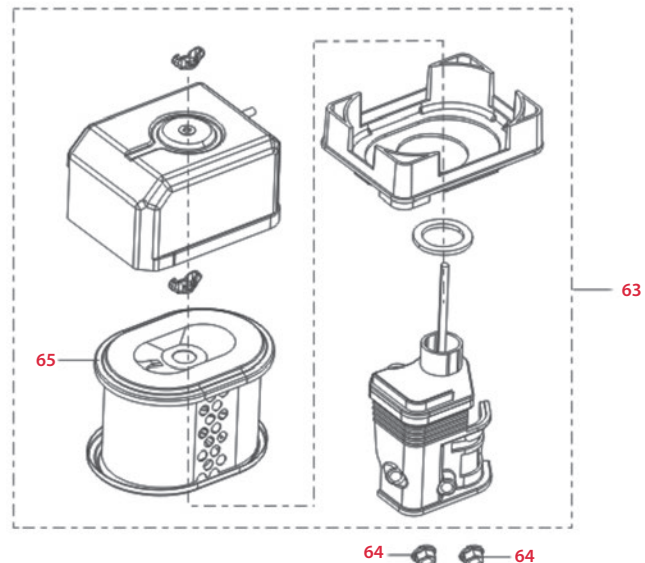
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below left)			
58	JMRT1035	16100-Z040210-0000	Carburettor assembly
59	JMRT1037	17001-Z010210-0000	Air cleaner gasket
60	JMRT1038	16001-Z300110-0000	Carburettor gasket
61	JMRT1039	16003-Z010110-0000	Carburettor insulator plate
62	JMRT1040	16002-Z300110-0000	Carburettor insulator gasket



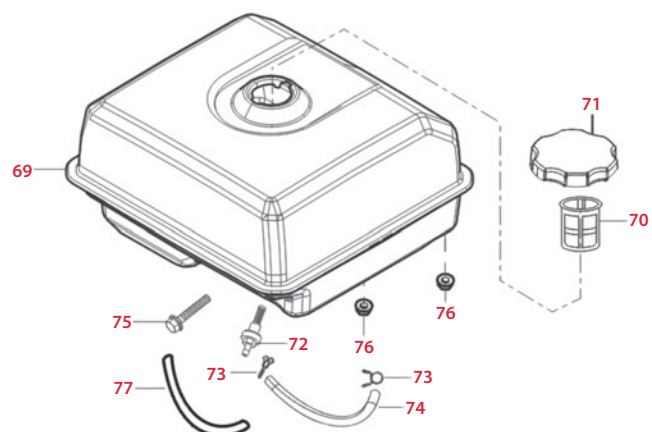
Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below left)			
66	JMRT1045	18001-Z300110-0000	Exhaust outlet gasket
67	NS	90303-0800-31	Nut
68	JMRT1043	18100-Z010710-H300	Muffler assembly



Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below right)			
63	JMRT1371	17100-Z010210-0000	Air cleaner complete
64	NS	90305-0600-31	Nut
65	JMRT1042		Air cleaner element



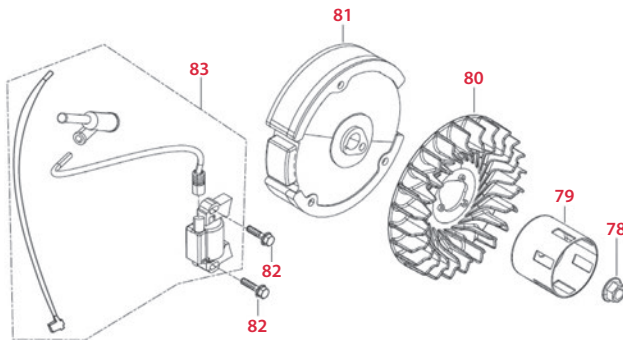
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank (below right)			
69	JMRT1046	16620-Z440120-Y100	Fuel tank
70	JMRT1047	16652-Z010610-0000	Fuel strainer
71	JMRT1048	16730-Z300120-0000	Fuel tank cover
72	JMRT1049	16680-Z010110-0000	Fuel tank oil outlet subassembly
73	NS	90740-Z010210-0000	Clamp
74	NS	90686-Z010510-0000	Fuel tube
75	NS	90007-0630-A1	Bolt
76	NS	90305-0600-31	Nut
77	NS	30431-Z010110-0000	Rubber jacket



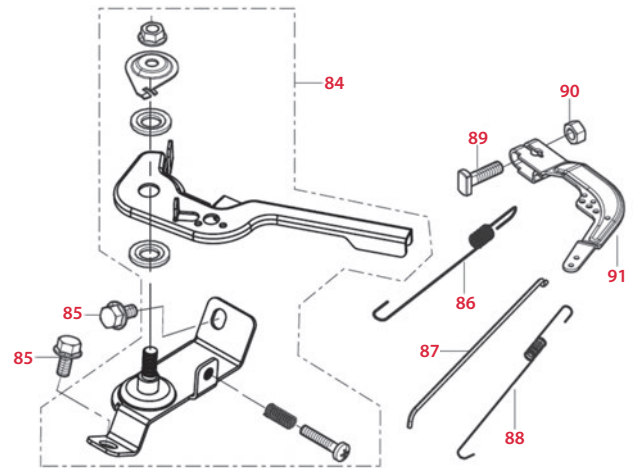
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

RT80ZB28-3.6Q Clean Water Pump

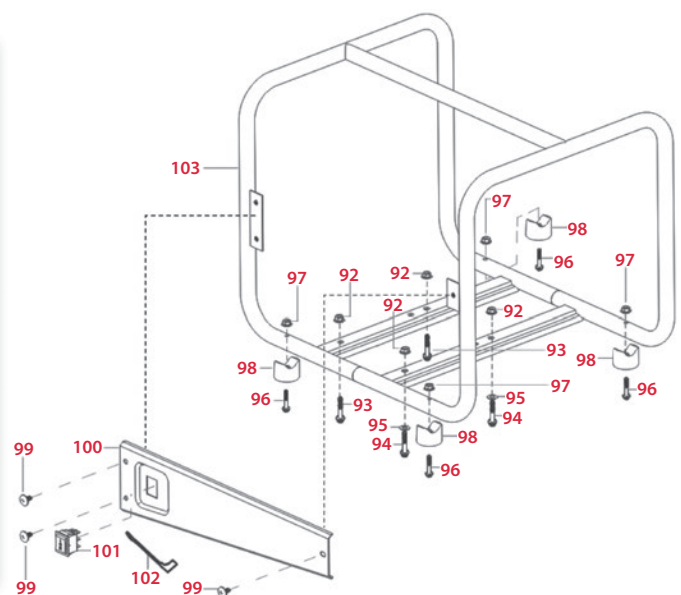
Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (below)			
78	NS	13501-Z010110-0000	Flywheel nut
79	JMRT1051	28002-Z300210-0000	Starter cup
80	NS	19352-Z010310-0000	Impeller
81	NS	13510-Z010110-0000	Flywheel subassembly
82	NS	90001-0625-01	Bolt
83	JMRT1052	30400-Z010210-0000	Ignition coil



Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (below right)			
84	NS	16520-Z010230-0000	Throttle control assembly
85	NS	90001-0610-01	Bolt
86	JMRT1053	16063-Z010110-0000	Governor spring
87	NS	16062-Z010110-0000	Governor rod
88	JMRT1054	16012-Z010110-0000	Throttle valve returning spring
89	NS	16072-Z010110-0000	Governor support bolt
90	NS	90305-0600-31	Nut
91	NS	16070-Z010110-0000	Governor support subassembly



Item	JAK Max Part No.	RATO Part No.	Description
Engine Frame Assembly (right)			
92	NS	90327-0800-31	Nut
93	NS	90001-0835-01	Bolt
94	NS	90001-0825-01	Bolt
95	NS	90406-0800-E1	Washer
96	NS	90001-0635-01	Bolt
97	NS	90305-0600-31	Nut
98	JMRT1166	51014HX090120-0000	Engine frame shock absorption seat
99	NS	90111-Y460110-0000	Bolt
100	NS	51025-V340110-H700	Decorative frame
101	NS	35160-Y450110-QG00	Switch subassembly
102	NS	35541-V330210-0000	Wire, stop engine
103	NS	51100-V340210-H7L0	Engine frame assembly

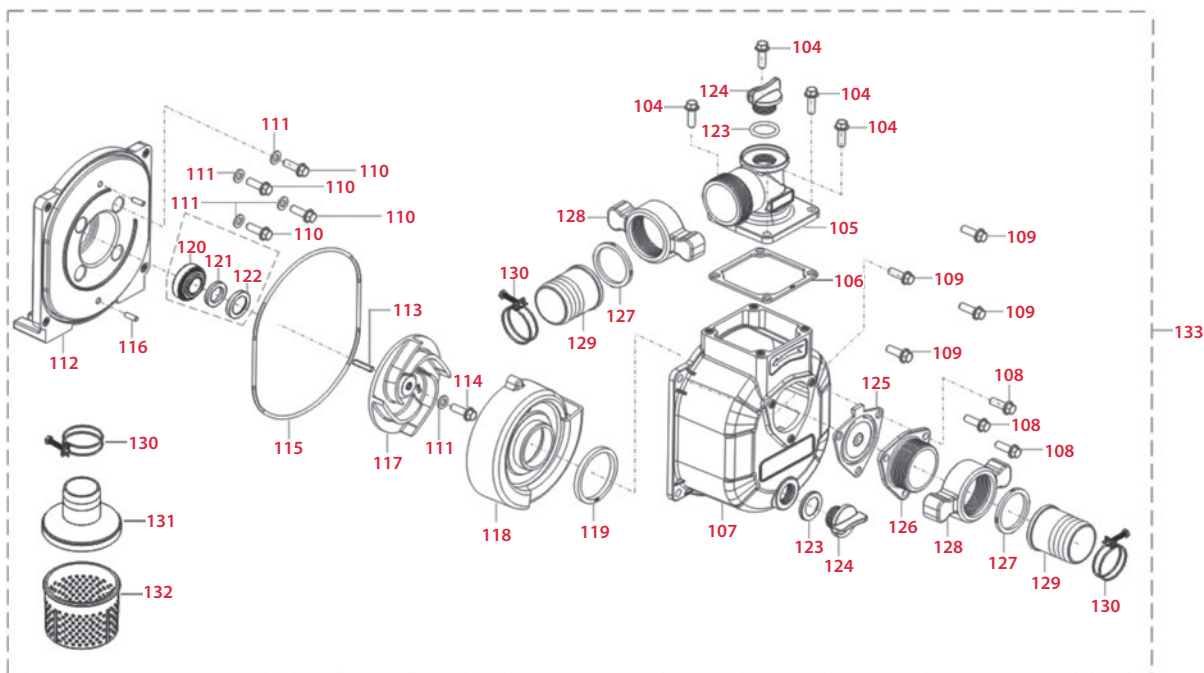


RT80ZB28-3.6Q Clean Water Pump

*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly (below)			
104	NS	90001-1025-51	Bolt
105	JMRT1143	70108-V340110-0000	Water outlet
106	JMRT1144	70109-V340110-0000	Outlet gasket
107	JMRT1145	70105-V340110-0000	Pump body
108	NS	90001-1020-51	Bolt
109	NS	90001-1030-01	Bolt
110	NS	90001-V020110-0000	Bolt
111	NS	90409-V260110-0000	Washer
112	JMRT1146	70118-V340110-0000	Water pump joint
113	NS	90522-V010110-0000	Key
114	NS	90001-V070110-0000	Bolt
115	JMRT1147	70119-V340110-0000	Water pump joint cushion
116	NS	90505-0618-00	Pin
117	JMRT1148	70102-V340110-0000	Water pump impeller
118	JMRT1149	70103-V340110-0000	Whorl case

Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly - continued (below)			
119	JMRT1150	70104-V340110-0000	Whorl case sealing ring
120	JMRT1151	70300-V260210-0000	Mechanical seal assembly
121	JMRT1152	70309-V260210-0000	Porcelain seal
122	JMRT1153	70125-V260210-0000	Washer
123	NS	70122-V260110-0000	Screw plug washer
124	JMRT1154	70107-V330110-0000	Thread plug
125	JMRT1155	70115-V340110-0000	Inlet water gasket
126	JMRT1156	70116-V340110-0000	Water inlet
127	JMRT1157	70131-V340110-0000	Hose joint seal ring
128	JMRT1158	70111-V270310-0000	Hose joint
129	JMRT1159	70112-V270310-0000	Hose interface
130	JMRT1160	70400-V270110-0000	Hose hoop assembly
131	JMRT1161	70113-V270110-0000	Filter cover
132	JMRT1162	70114-V270110-0000	Filter
133	JMRT1163	70100-V340710-0K00	Water pump assembly



RT80WB26-3.8Q Sewage/Trash Pump

Product Information



Features

- Powerful OHV 7hp RATC engine.
- Suitable for 30% softnite dirty water.
- Also suitable as a clean water pump.
- Rugged full frame protection.



The RATC RT80WB26-3.8Q 3" is suitable for 30% softnite dirty water such as in town waterlogging and breeding industry exhaust. Could also be used as a clean water pump.

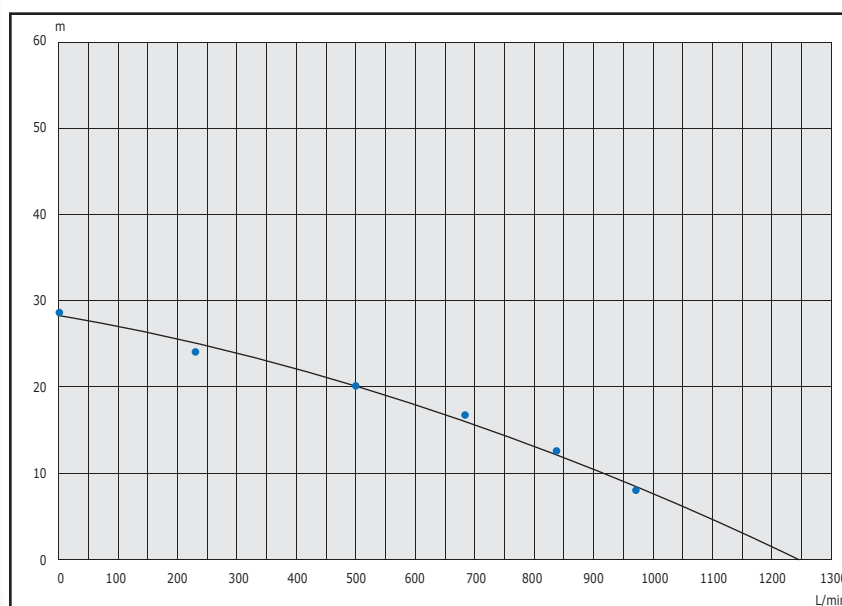
All RATC products are covered by our 12 month/500 hour warranty.

SPECIFICATIONS

RT80WB26-3.8Q

Engine model	R210 / 7hp
Engine type	Single cylinder, 4 stroke, OHV
Starting system	Recoil start
Bore x stroke	70 x 55mm
Displacement	212ml
Compression ratio	9.0 : 1
Net power	4.4kw / 3600rpm
Fuel consumption	≤395 (g/kw-h)
Net torque	12N.m / 2500rpm
Pump set	3" semi trash
Suction port diameter	75mm (3")
Discharge port diameter	75mm (3")
Suction head lift	7m
Total head lift	26m
Discharge capacity	66m³/h / 1100 litres per minute
Dimensions (L x W x H mm)	552 x 432 x 450
Net weight	35kg

Performance Curve



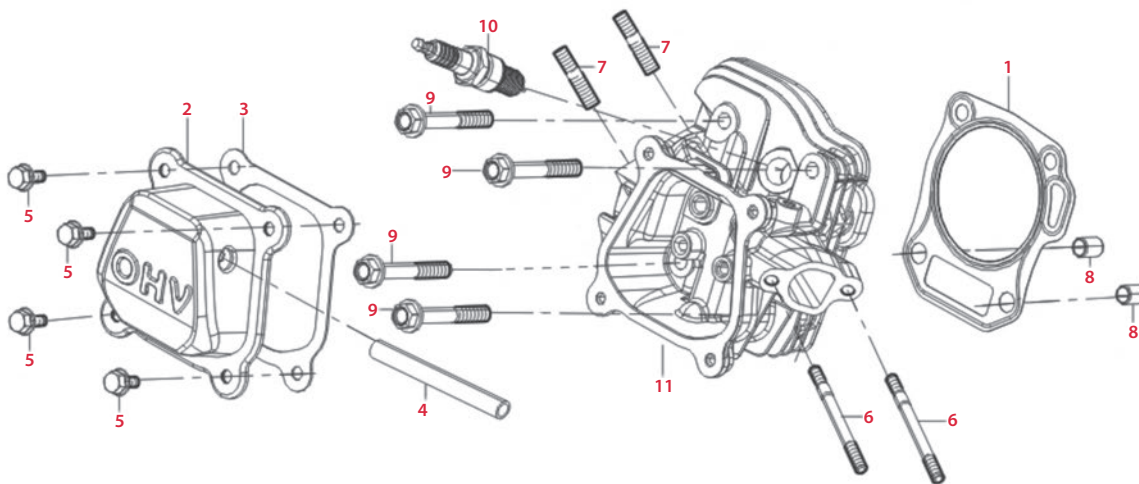
Unload Speed	Loading Speed	Suction Head Lift	Discharge Capacity (m³/h)	Discharge Capacity (L/min)	Total Head Lift (M)	Test Envir. Temp (C°)	Humidity at Outlet	Pressure at Outlet
3840	3680	8.1	58.3	971.67	8.02	18.8	76	62.8
	/		50.2	836.67	12.44	18.8	76	98.5
	/		41	683.33	16.78	18.8	76	135.5
	/		30	500.00	20.05	18.8	76	172.2
	/		13.8	230.00	24.11	18.8	76	204.6
	/		0	0.00	28.67	18.8	76	245

RT80WB26-3.8Q Sewage/Trash Pump

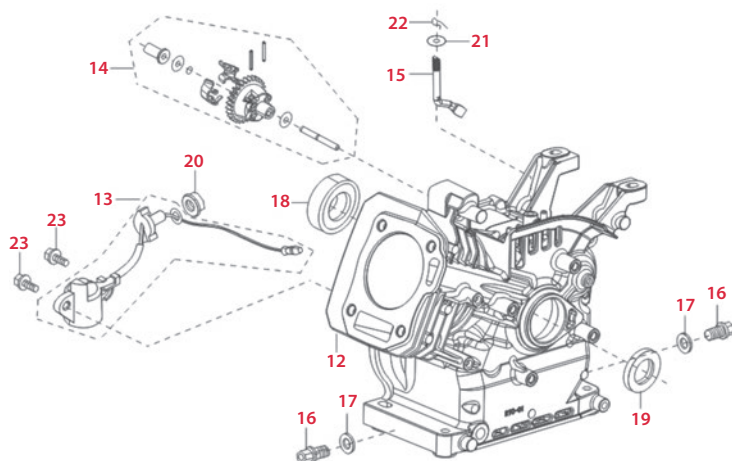
*NS - Not Stocked by JAK Max
however available from RATO. Special
order only, 3 month lead time.

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
1	JMRT1365	12131-Z140120-0000	Cylinder head gasket
2	NS	12410-Z010220-H300	Cylinder head cover subassembly
3	JMRT1002	12004-Z010110-0000	Cylinder head cover gasket
4	NS	17004-Z050210-0000	Breather tube
5	NS	90001-0612-03	Bolt
6	NS	90204-Z010310-0000	Stud

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
7	NS	90203-Z010110-0000	Stud
8	NS	90502-1014-00	Pin
9	NS	12003-Z010110-0000	Cylinder head bolt
10	BPR6ES/ RN9YC	30010-Z010210-0000	Spark plug
11	NS	12140-Z040610-0000	Cylinder head subassembly



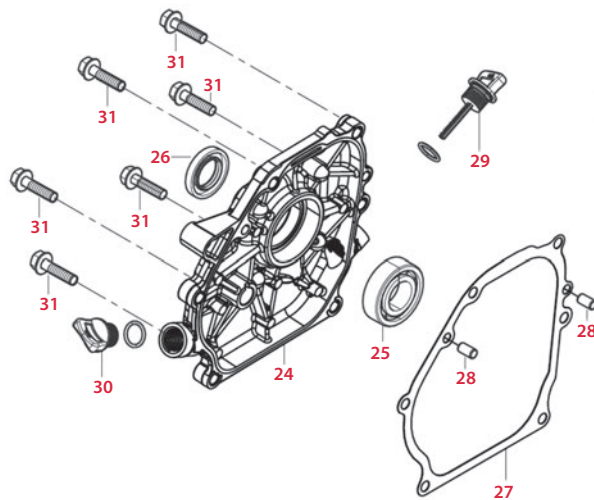
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase & Governor Gear Assembly (right)			
12	NS	11310-Z140420-0000	Crankcase assembly
13	NS	37060-Z010120-0000	Engine oil sensor
14	NS	16400-Z010110-0000	Governor gear assembly
15	NS	16061-Z010110-0000	Governor arm
16	NS	11007-Z010110-0000	Drain plug bolt
17	NS	90408-Z010110-0000	Washer
18	NS	90547-0205-CL	Bearing
19	NS	90682-Z300110-0000	Oil seal
20	NS	90305-Z010210-01	Nut
21	NS	90408-Z010210-0000	Governor gear washer
22	NS	90501-Z010110-0000	Pin
23	NS	90001-0614-01	Bolt



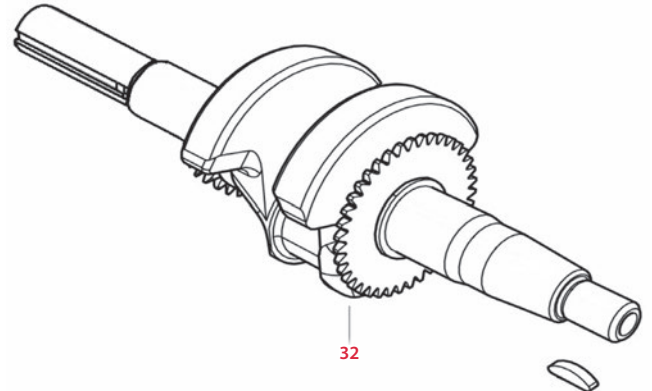
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RT80WB26-3.8Q Sewage/Trash Pump

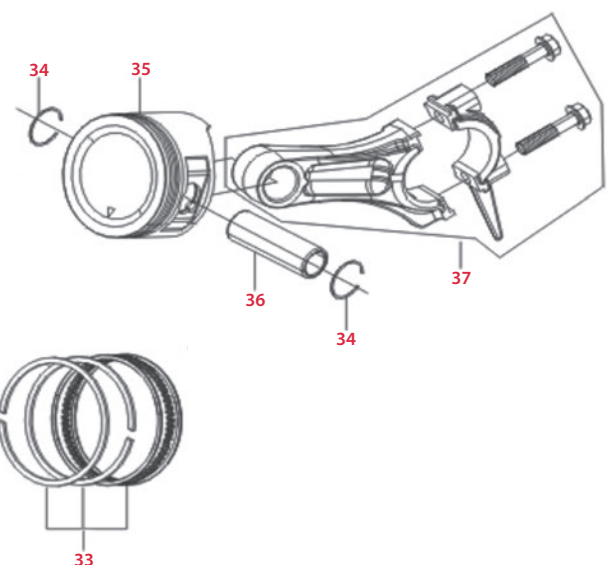
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly (below left)			
24	NS	11411-Z010310-0000	Crankcase cover
25	NS	90547-0205-CL	Bearing
26	JMRT1005	90682-Z300110-0000	Oil seal
27	JMRT1366	11001-Z010120-0000	Crankcase gasket
28	NS	90502-0812-00	Pin
29	NS	15010-Z010130-Q500	Oil dipstick subassembly
30	NS	15030-Z010130-Q500	Engine oil plug subassembly
31	NS	90001-0832-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below right)			
32	JMRT1010	13300-Z140330-0000	Crankshaft assembly



Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (right)			
33	NS	13200-Z140210-0099	Piston rings set
34	NS	13122-Z010110-0000	Piston pin clip
35	NS	13111-Z140220-0099	Piston
36	NS	13121-Z010110-0000	Piston pin
37	NS	13010-Z440210-0099	Connecting rod

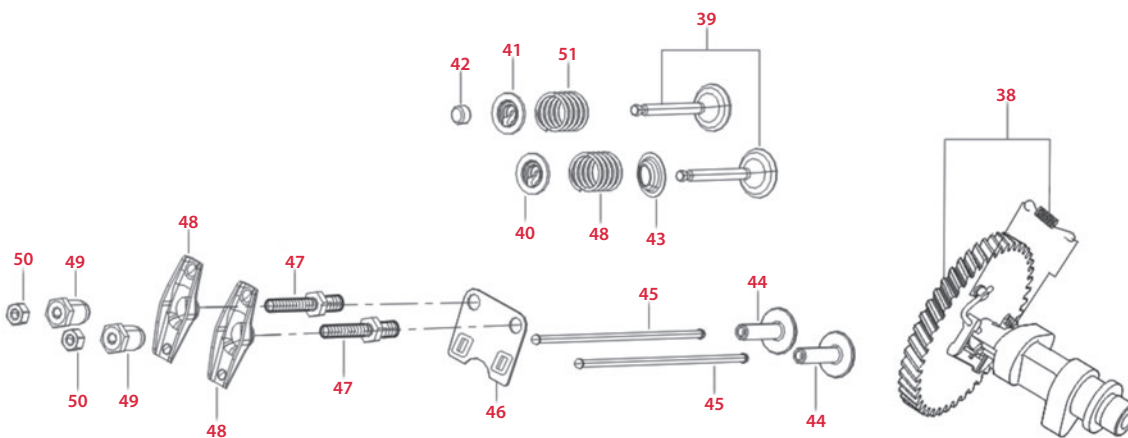


RT80WB26-3.8Q Sewage/Trash Pump

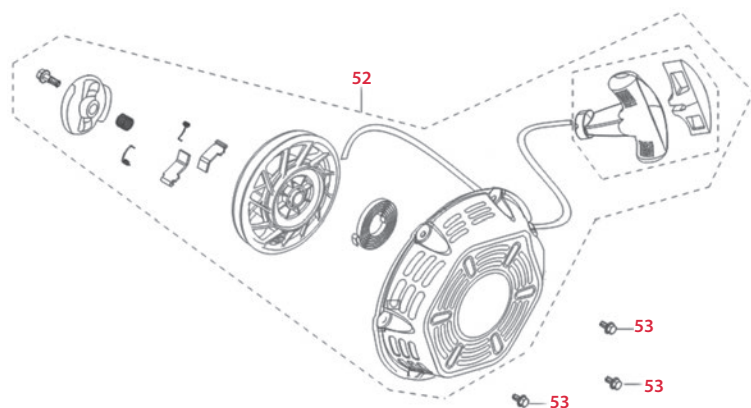
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Item	JAK Max Part No.	RATC Part No.	Description
Valve Train & Camshaft Subassembly (below)			
38	NS	14200-Z040110-0000	Camshaft assembly
39	NS	12110-Z010110-0000	Valves set
40	NS	12112-Z010110-0000	Valve spring seat
41	NS	12107-Z010110-0000	Exhaust valve retainer
42	NS	12104-Z010110-0000	Valve rotator
43	NS	12101-Z010110-0000	Seal guide
44	NS	14081-Z040110-0000	Valve tappet

Item	JAK Max Part No.	RATC Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
45	NS	14071-Z010110-0000	Valve lifter
46	NS	14090-Z010110-0000	Lifter stopper plate subassembly
47	NS	14313-Z010110-0000	Valve adjusting bolt
48	NS	14311-Z010110-0000	Valve rocker
49	NS	14314-Z010110-0000	Valve adjusting nut
50	NS	14312-Z010110-0000	Valve lock nut
51	NS	12103-Z010110-0000	Valve spring



Item	JAK Max Part No.	RATC Part No.	Description
Starter Recoil (right)			
52	JMRT1367	28200-Z300410-H700	Starter Recoil assembly
53	NS	90001-0608-01	Bolt

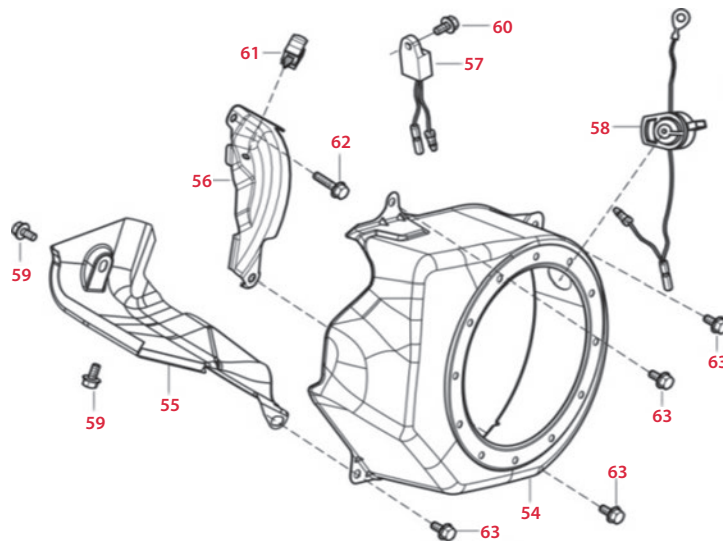


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RT80WB26-3.8Q Sewage/Trash Pump

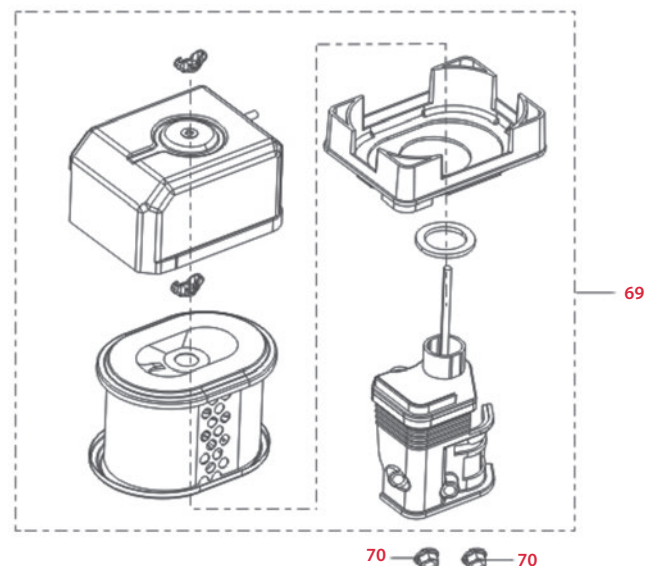
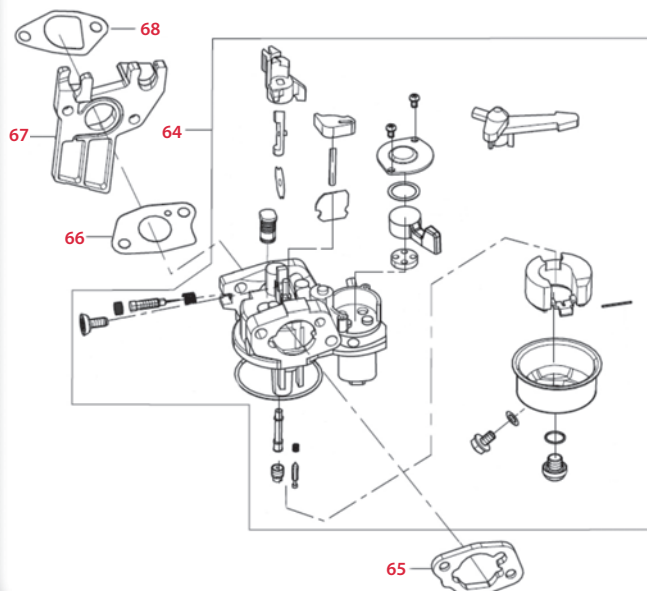
Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (below)			
54	NS	28110-Z010410-H700	Shroud
55	NS	19304-Z010710-0000	Cylinder body shroud
56	NS	19340-Z010120-0000	Lower shield
57	NS	37050-Z010210-0000	Oil protector
58	NS	35540-Z060140-Q200	Stop engine switch subassembly

Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield - continued (below)			
59	NS	90001-0610-01	Bolt
60	NS	90001-0610-01	Bolt
61	NS	90740-Z010110-0000	Collar
62	NS	90001-0616-01	Bolt
63	NS	90001-0612-01	Bolt



Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below left)			
64	JMRT1368	16100-Z040210-0000	Carburettor assembly
65	JMRT1037	17001-Z010210-0000	Air cleaner gasket
66	JMRT1370	16001-Z300110-0000	Carburettor gasket
67	NS	16003-Z010110-0000	Carburettor insulator plate
68	NS	16002-Z300110-0000	Carburettor insulator gasket

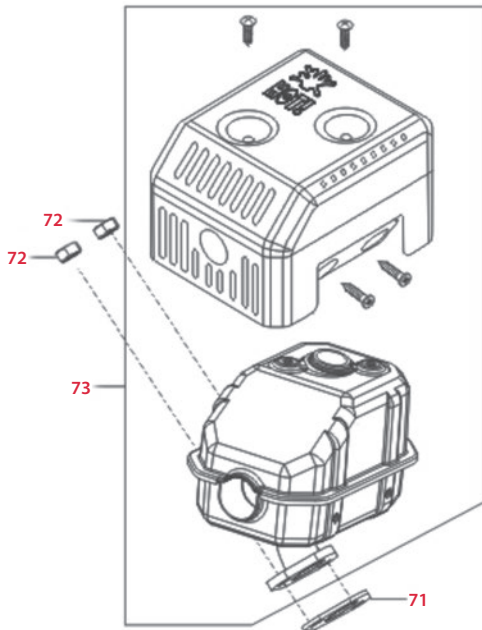
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (below right)			
69	JMRT1371	17100-Z010210-0000	Air cleaner complete
70	NS	90305-0600-31	Nut



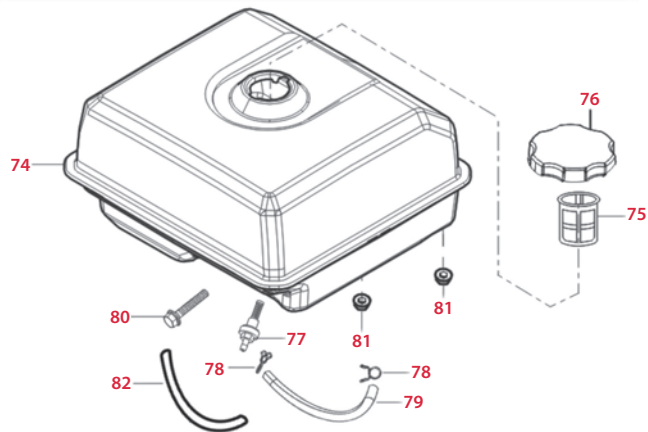
RT80WB26-3.8Q Sewage/Trash Pump

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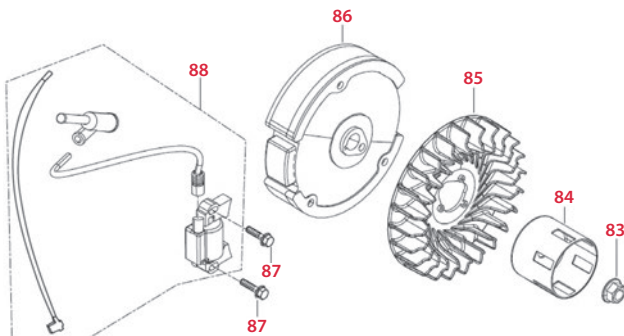
Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below left)			
71	JMRT1373	18001-Z300110-0000	Exhaust outlet gasket
72	NS	90303-0800-31	Nut
73	JMRT1372	18100-Z010710-H300	Muffler assembly



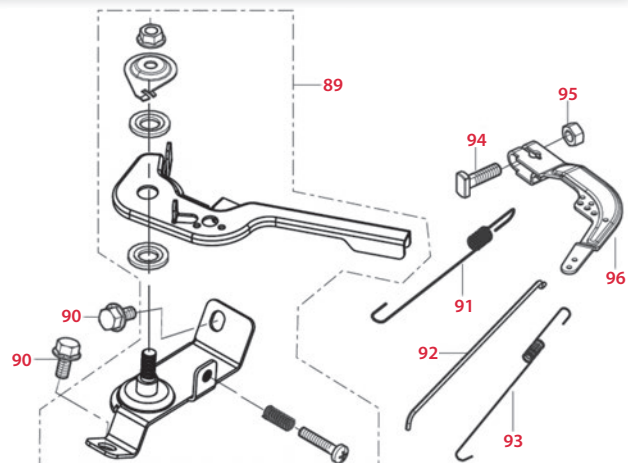
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (below right)			
74	JMRT1374	16620-Z440310-H700	Fuel tank
75	JMRT1375	16652-Z010610-0000	Fuel strainer
76	JMRT1348	16730-Z300120-0000	Fuel tank cover
77	NS	16680-Z010110-0000	Fuel tank oil outlet subassembly
78	NS	90740-Z010210-0000	Clamp
79	NS	90686-Z010510-0000	Fuel tube
80	NS	90001-0630-01	Bolt
81	NS	90305-0600-31	Nut
82	NS	30431-Z010110-0000	Rubber jacket



Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (below)			
83	NS	13501-Z010110-0000	Flywheel nut
84	JMRT1378	28002-Z010310-0000	Starter pulley
85	NS	19352-Z010310-0000	Impeller
86	NS	13510-Z010110-0000	Flywheel subassembly
87	NS	90001-0625-01	Bolt
88	JMRT1377	30400-Z010410-0000	Ignition coil



Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (below right)			
89	NS	16520-Z010230-0000	Throttle control assembly
90	NS	90001-0610-01	Bolt
91	NS	16063-Z010110-0000	Governor spring
92	NS	16062-Z010110-0000	Governor rod
93	NS	16012-Z010110-0000	Throttle valve returning spring
94	NS	16072-Z010110-0000	Governor support bolt
95	NS	90305-0600-31	Nut
96	NS	16070-Z010110-0000	Governor support subassembly

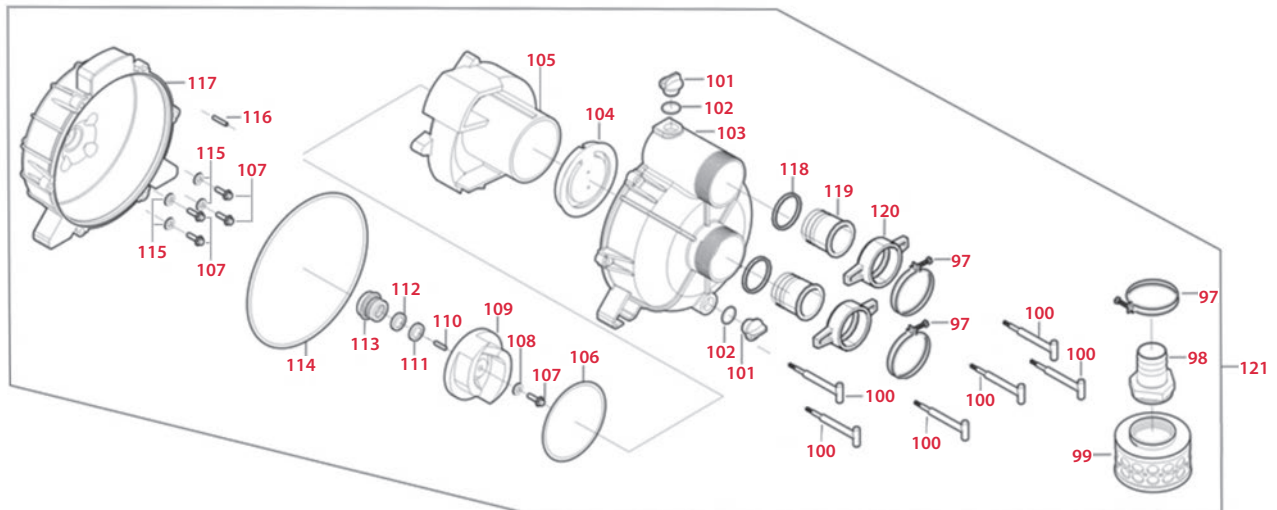


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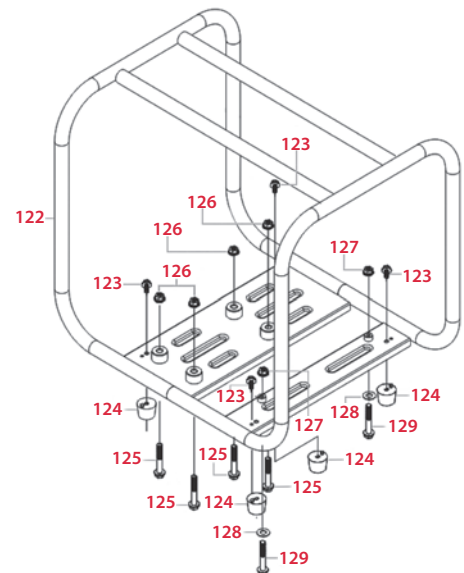
RT80WB26-3.8Q Sewage/Trash Pump

Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly (below)			
97	JMRT1160	70400-V270110-0000	Hose hoop subassembly
98	NS	90752-V090510-0000	Water tube joint
99	NS	70135-V090210-0000	Strainer
100	NS	70123-V090410-0000	Bolt
101	NS	70107-V260210-0000	Thread plug
102	NS	70122-V260110-0000	Screw plug washer
103	NS	70105-V090610-0K00	Pump body
104	NS	70115-V090410-0000	Inlet water gasket
105	NS	70103-V090410-0000	Whorl case
106	NS	70104-V090410-0000	Whorl case sealing ring
107	NS	90001-V070110-01	Bolt
108	NS	90409-V260110-0000	Gasket
109	NS	70102-V090410-0000	Water pump impeller

Item	JAK Max Part No.	RATO Part No.	Description
Pump Assembly (below)			
110	NS	90522-V020110-0000	Key
111	NS	70125-V260210-0000	Washer
112	NS	70309-V330110-0000	Porcelain seal
113	NS	70300-V330110-0000	Mechanism seal assembly
114	NS	70119-V090410-0000	Water pump joint cushion
115	NS	90409-V260110-0000	Washer
116	NS	90505-0618-00	Pin
117	NS	70118-V090410-0K00	Water pump joint
118	NS	70131-V270110-0000	Hose joint seal ring
119	JMRT1159	70112-V270310-0K00	Hose interface
120	JMRT1158	70111-V270310-0K00	Hose joint
121	NS	70100-V090910-0K00	Water pump assembly



Item	JAK Max Part No.	RATO Part No.	Description
Engine Frame Assembly (right)			
122	NS	51100-V091410-H7L0	Engine frame assembly
123	NS	90001-0610-01	Bolt
124	JMRT1105	51014HY450110-0000	Engine frame shock absorption seat
125	NS	90001-0850-01	Bolt
126	NS	90327-0800-31	Nut
127	NS	90327-0800-31	Nut
128	NS	90406-0800-E1	Washer
129	NS	90001-0835-01	Bolt



RT150ZB20-7.2Q Clean Water Transfer Pump

Product Information

The RATC RT150ZB20-7.2Q clean water pump (6" standard transfer pump) features a unique design and is manufactured for general water pumping applications and features tough aluminium housing and corrosion resistant e-coated frame.

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



SPECIFICATIONS

RT150ZB20-7.2Q

Engine model	R420 / 15hp
Engine type	Single cylinder, 4 stroke, OHV
Starting system	Recoil start
Bore x stroke	90 x 66mm
Displacement	420ml
Compression ratio	8.5 : 1
Net power	9.0kw / 3600rpm
Fuel consumption	≤374 (g/kw-h)
Net torque	26.5N.m / 2500rpm
Pump set	6" clean water
Suction port diameter	150mm (6")
Discharge port diameter	150mm (6")
Suction head lift	7m
Total head lift	20m
Discharge capacity	140m³/h - 2333 litres per minute
Dimensions (L x W x H mm)	807 x 585 x 557
Net weight	68kg

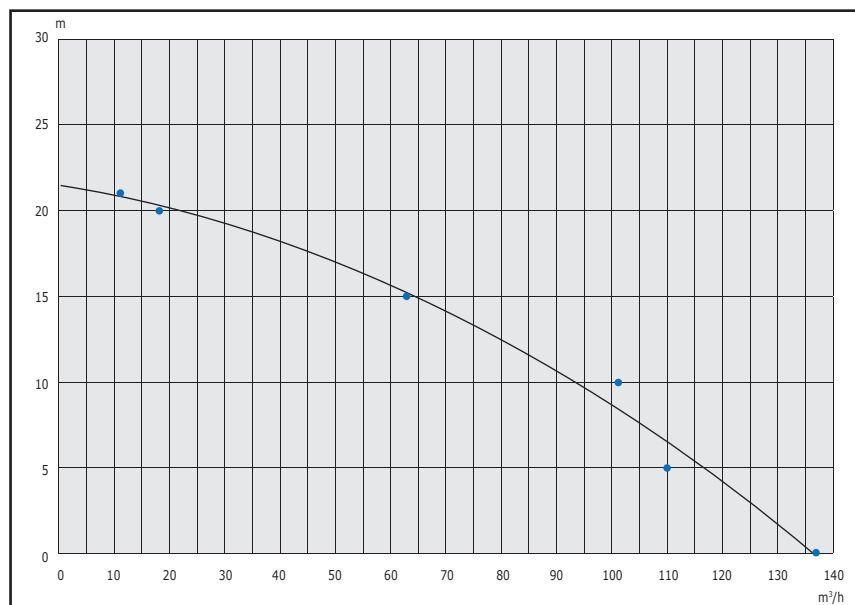
Features

- OHV engine technology by RATC.
- High delivery rates.
- Rugged full frame protection with anti-vibration mounts.
- Cast iron volute and impeller with a silicon carbide seal.



Performance Curve

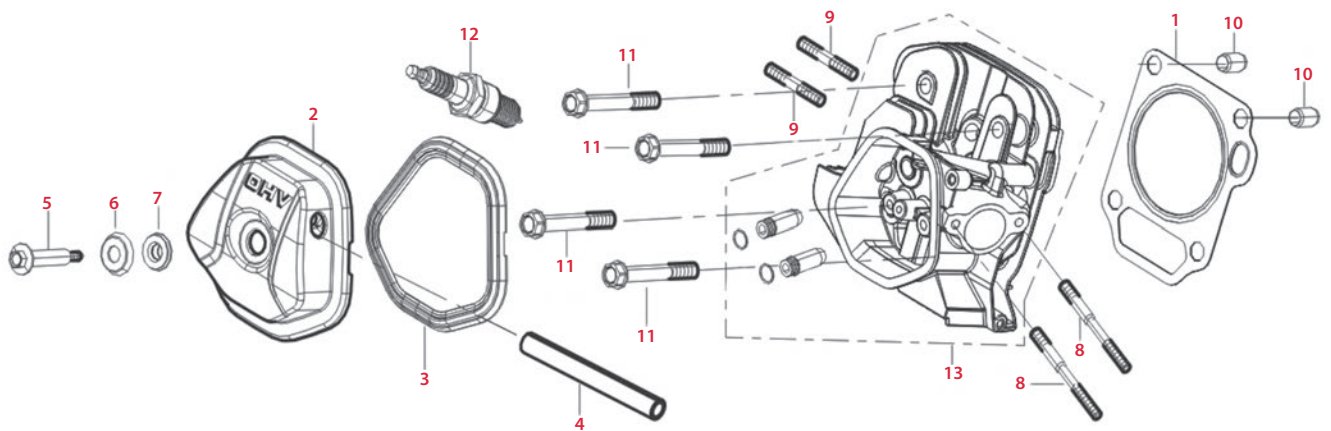
Loading Speed (rpm)	Discharge Capacity (m³/h)	Discharge Capacity (L/min)	Total Head Lift (M)
3090	137.0	2283.33	0
3120	110.0	1833.33	5
3150	101.0	1683.33	10
3190	63.0	1050	15
3190	18.0	300	20
3200	11.0	183.33	21



RT150ZB20-7.2Q Clean Water Transfer Pump

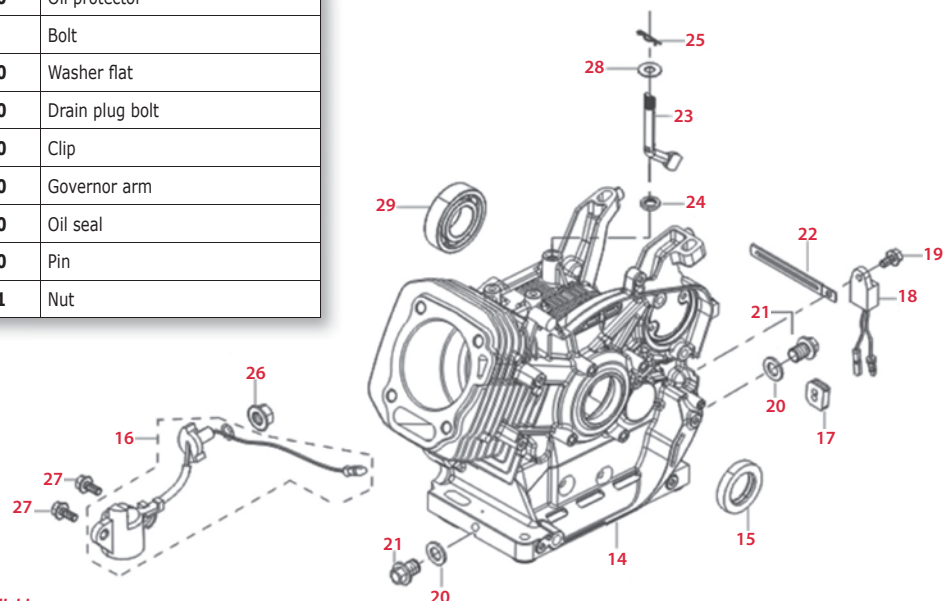
Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
1	JMRT1325	12131-Z100110-0000	Cylinder head gasket
2	NS	12410-Z310110-0000	Cylinder head cover subassembly
3	JMRT1326	12004-Z080110-0000	Cylinder head cover gasket
4	NS	17004-Z100110-0000	Breather tube
5	NS	12032-Z080110-0100	Cylinder head cover bolt subassembly
6	NS	12031-Z080110-0100	Cylinder head cover gasket
7	NS	12033-Z080110-0000	Gasket

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
8	NS	90204-Z100210-0000	Stud
9	NS	90204-Z100320-0000	Stud
10	NS	90502-1220-00	Pin
11	NS	12003-Z080110-0000	Cylinder head bolt
12	BPR6ES/ RN9YC	30010-Z010110-0000	Spark plug
13	NS	12140-Z190150-0B99	Cylinder head subassembly



Item	JAK Max Part No.	RATO Part No.	Description
Crankcase (below)			
14	NS	11310-Z101110-0B00	Crankcase subassembly
15	NS	90682-10110-0000	Oil seal
16	NS	37060-80120-0000	Engine oil sensor
17	NS	28101-80110-0000	Rubber plug
18	NS	37050-10210-0000	Oil protector
19	NS	90001-0612-01	Bolt
20	NS	90412-80110-0000	Washer flat
21	NS	11007-80110-0000	Drain plug bolt
22	NS	90684-30120-0000	Clip
23	NS	16061-00110-0000	Governor arm
24	NS	90682-00210-0000	Oil seal
25	NS	90501-10110-0000	Pin
26	NS	90305-Z010210-01	Nut

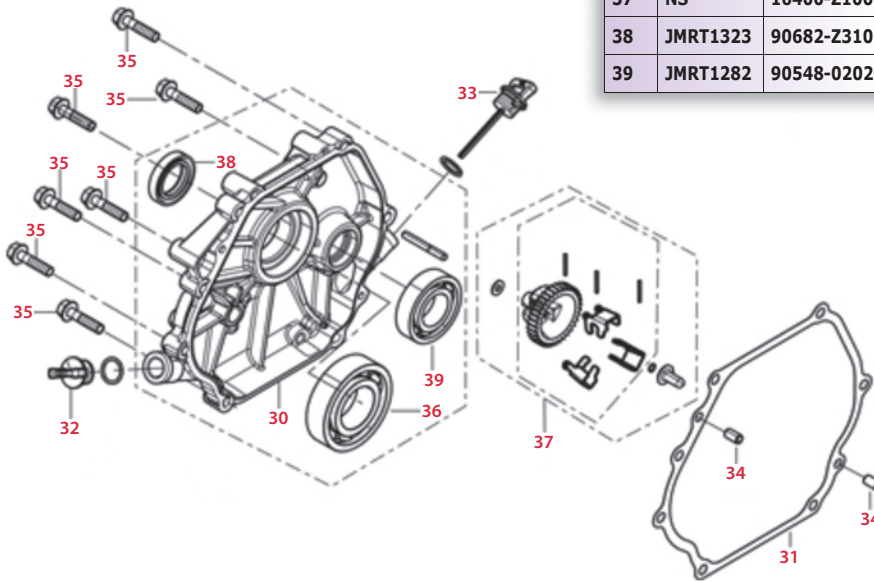
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase - continued (below)			
27	NS	90001-0616-01	Bolt
28	NS	90412-Z080210-0000	Washer flat
29	JMRT1282	90548-0202-CL	Bearing



*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

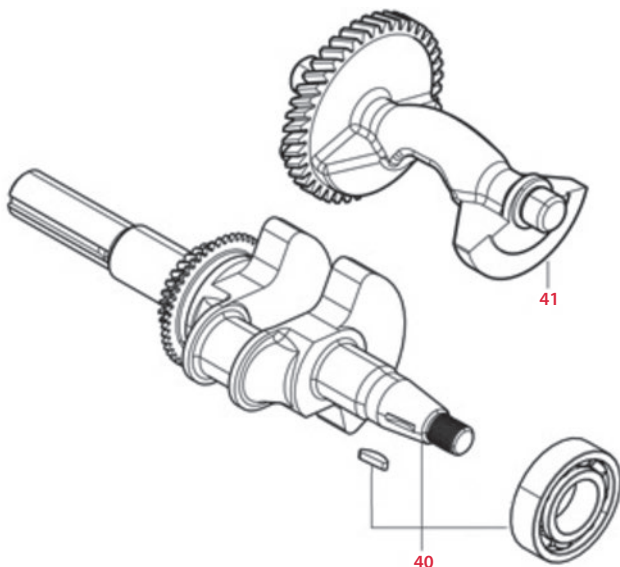
RT150ZB20-7.2Q Clean Water Transfer Pump

Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly & Governor Gear Assembly			
30	NS	11411-Z100710-0B00	Crankcase cover
31	JMRT1283	11001-Z100120-0000	Crankcase gasket
32	NS	15030-Z080130-Q200	Engine oil plug subassembly

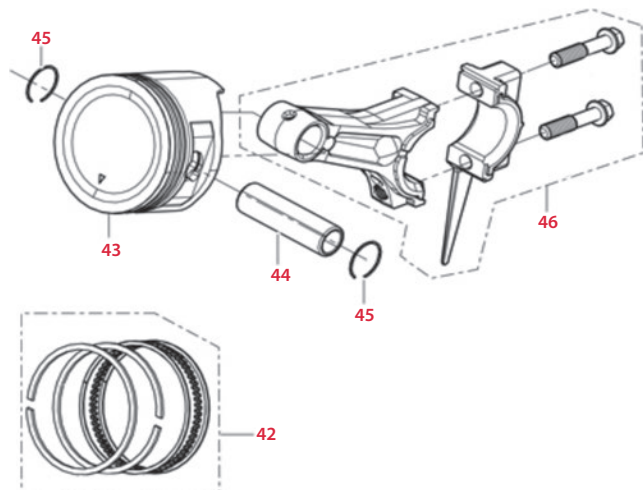


Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly & Governor Gear Assembly			
33	NS	15010-Z080130-Q200	Oil dipstick subassembly
34	NS	90502-0812-00	Pin
35	NS	90001-0840-01	Bolt
36	NS	90548-0207-CL	Bearing
37	NS	16400-Z100110-0000	Governor gear assembly
38	JMRT1323	90682-Z310110-0000	Oil seal
39	JMRT1282	90548-0202-CL	Bearing

Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft (below left)			
40	NS	13300-Z100620-0000	Crankshaft assembly
41	NS	13401-Z100110-0000	Balancing shaft



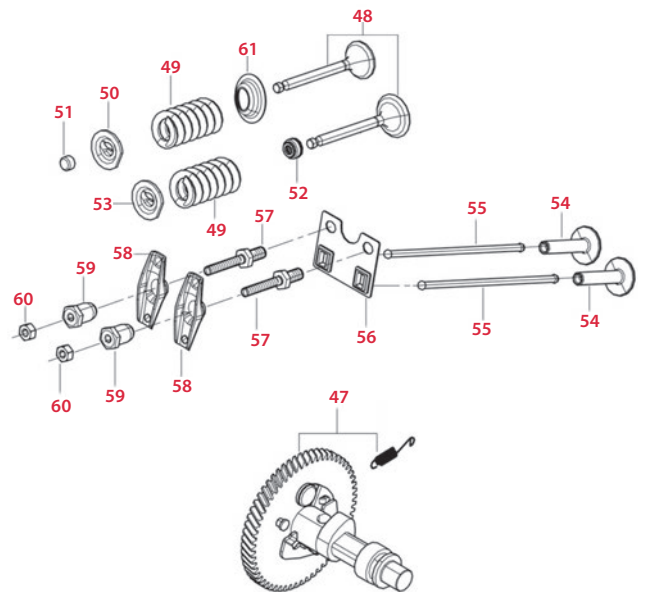
Item	JAK Max Part No.	RATO Part No.	Description
Oil Ring Set & Crankshaft Connecting Rod (below right)			
42	JMRT1328	13200-Z310110-0000	Piston ring set
43	JMRT1327	13111-Z310110-0000	Piston
44	JMRT1289	13121-Z100110-0000	Piston pin
45	JMRT1183	13122-Z100110-0000	Piston pin clip
46	NS	13010-Z100120-0000	Connecting rod



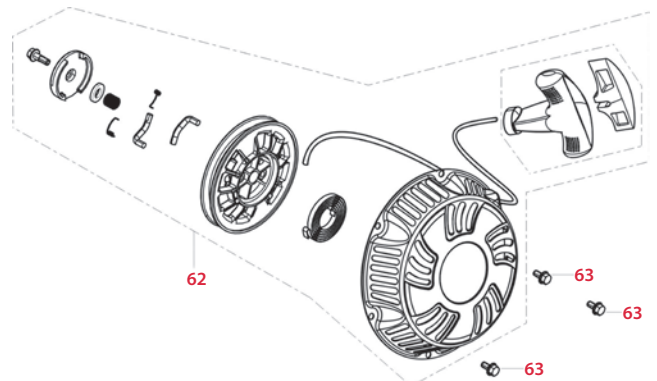
*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

RT150ZB20-7.2Q Clean Water Transfer Pump

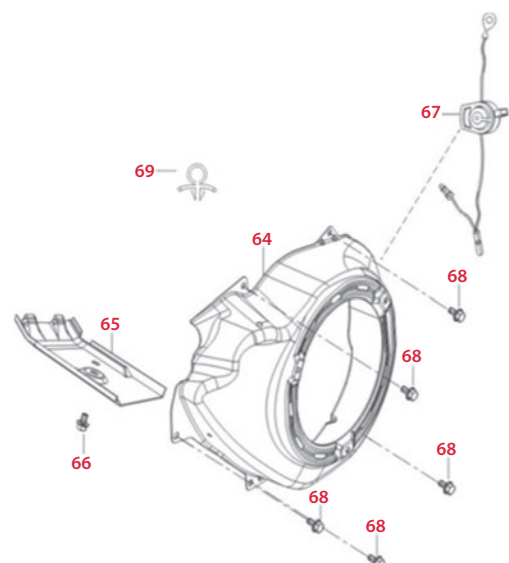
Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (right)			
47	NS	14200-Z100110-0000	Camshaft assembly
48	JMRT1295	12110-Z190110-0099	Valve
49	JMRT1193	12103-Z080110-0000	Valve spring
50	JMRT1195	12107-Z080110-0000	Exhaust valve retainer
51	JMRT1196	12104-Z080110-0000	Valve rotator
52	JMRT1191	12101-Z080110-0000	Seal guide
53	JMRT1194	12112-Z080110-0000	Valve spring retainer
54	JMRT1294	14081-Z080110-0000	Valve lifter
55	JMRT1293	14070-Z100110-0000	Valve tappet
56	JMRT1292	14090-Z080110-0000	Lifter stopper plate subassembly
57	JMRT1026	14313-Z010110-0000	Valve adjusting bolt
58	JMRT1291	14311-Z080110-0000	Valve rocker
59	JMRT1028	14314-Z010110-0000	Valve adjusting nut
60	JMRT1029	14312-Z010110-0000	Valve lock nut
61	JMRT1192	12105-Z080110-0000	Valve spring retainer



Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (right)			
62	JMRT1379	28200-Z101210-H300	Starter Recoil assembly
63	NS	90001-0608-01	Bolt



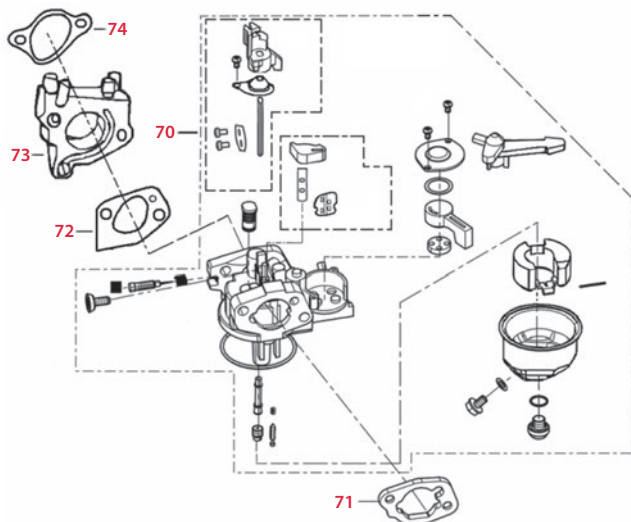
Item	JAK Max Part No.	RATO Part No.	Description
Shroud & Lower Shield (right)			
64	NS	28110-Z310410-H300	Shroud
65	NS	19304-Z100210-0000	Cylinder body shroud
66	NS	90001-0612-01	Bolt
67	NS	35540-Z060140-QG00	Stop engine switch subassembly
68	NS	90001-0612-01	Bolt
69	NS	90684-Z080110-0000	Clip



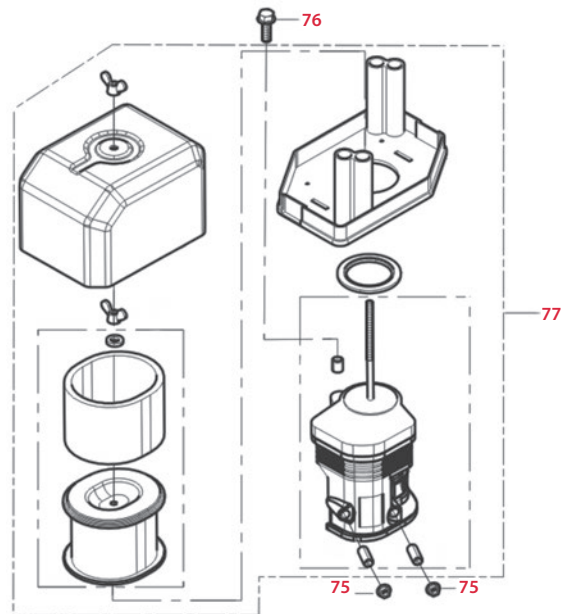
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

RT150ZB20-7.2Q Clean Water Transfer Pump

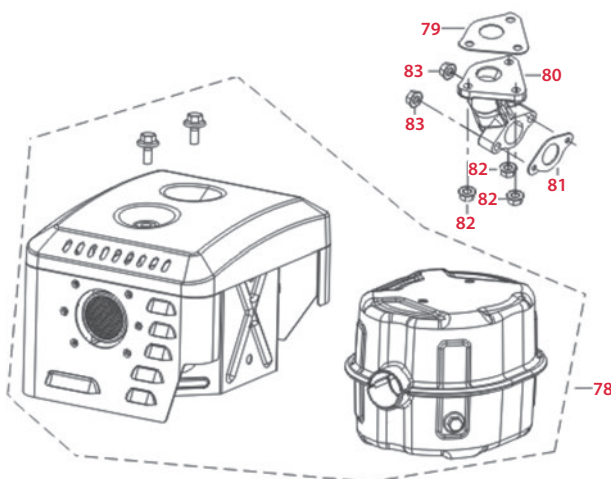
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below left)			
70	JMRT1380	16100-Z190910-0000	Carburettor assembly
71	JMRT1212	17001-Z080210-0000	Air cleaner gasket
72	JMRT1381	16001-Z100310-0000	Carburettor gasket
73	NS	16003-Z100110-0000	Carburettor insulator plate
74	NS	17002-Z100310-0000	Inlet gasket



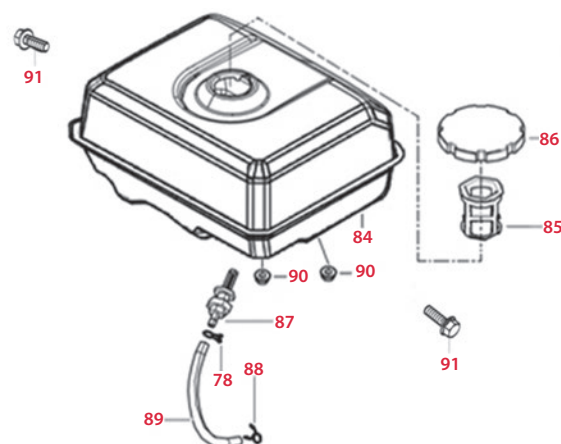
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner Assembly (below right)			
75	JMRT1321	90305-0600-31	Nut
76	NS	90007-0630-A1	Bolt
77	JMRT1382	17100-Z100110-0000	Air cleaner



Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below left)			
78	JMRT1383	18100-Z570110-0000	Muffler assembly
79	NS	18101-Z080110-0000	
80	NS	18150-Z080210-0000	Exhaust pipe
81	JMRT1384	18001-Z080210-0000	Exhaust outlet gasket
82	NS	90305-0800-33	Nut
83	NS	90305-0800-33	Nut



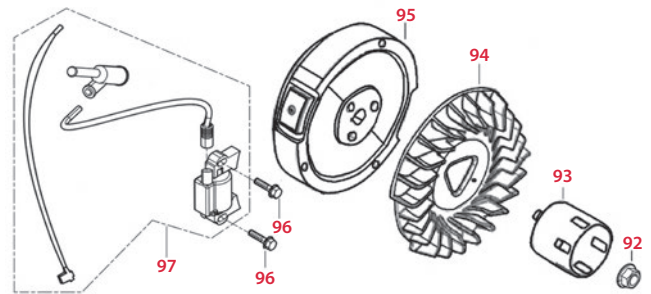
Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (below right)			
84	JMRT1385	16620-Z080410-H300	Fuel tank
85	JMRT1375	16652-Z010610-0000	Fuel strainer
86	JMRT1386	16730-Z010820-QB00	Fuel tank cover
87	JMRT1049	16680-Z010110-0000	Fuel tank oil outlet subassembly
88	NS	90740-Z010510-0000	Collar
89	NS	90686-Z520110-0000	Fuel tube
90	NS	90305-0800-31	Nut
91	NS	90001-0825-01	Bolt



*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

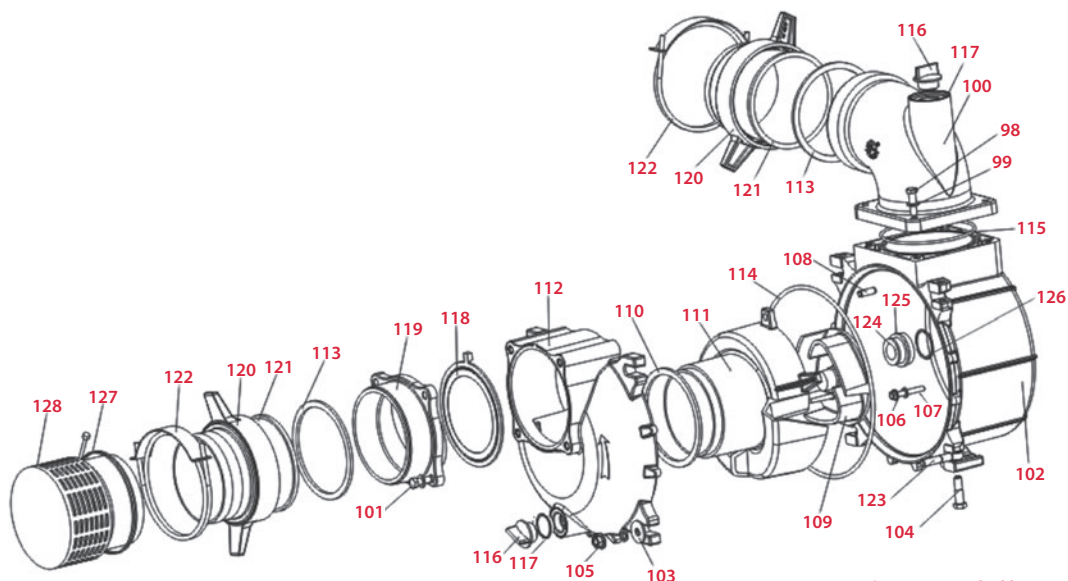
RT150ZB20-7.2Q Clean Water Transfer Pump

Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Cup & Ignition Coil (right)			
92	NS	13501-Z080110-0000	Flywheel nut
93	JMRT1333	28002-Z100210-0000	Starter cup
94	NS	19352-Z100310-0000	Impeller
95	NS	13510-Z100120-0000	Flywheel subassembly
96	NS	90001-0628-01	Bolt
97	JMRT1387	30400-Z190110-0000	Ignition coil



Item	JAK Max Part No.	RATO Part No.	Description
Water Pump Assembly (below)			
98	NS	35610-YB21610-H300	Bolt
99	NS	90007-0616-A3	Washer
100	JMRT1388	70108-V280110-0000	Water outlet
101	NS	90408-Y020310-0000	Bolt
102	JMRT1389	30043-YB20610-0000	Pump body
103	NS	35680-Y9X0110-Q200	Washer
104	NS	35160-Y210110-0000	Bolt
105	NS	35646-Y2V0210-0000	Nut
106	NS	16080-YB30110-0000	Bolt
107	JMRT1081	30700-Y2P0120-0000	Gasket
108	NS	35632-Y130110-0000	
109	JMRT1391	35680-Y9X0110-Q200	Water pump impeller
110	JMRT1392	35160-Y210110-0000	Gasket
111	JMRT1393	70103-V280110-0000	Whorl case
112	JMRT1394	16080-YB30110-0000	Water pump joint
113	JMRT1395	30700-Y2P0120-0000	Hose joint seal ring

Item	JAK Max Part No.	RATO Part No.	Description
Water Pump Assembly - continued (below)			
114	JMRT1396	35632-Y130110-0000	Water pump joint cushion
115	JMRT1397	35160-Y0G0110-0000	Outlet gasket
116	JMRT1398	31234-YB30110-0000	Thread plug
117	JMRT1399	31234-Y9H0110-0000	Screw plug washer
118	JMRT1400	35619-Y450110-0000	Inlet water gasket
119	JMRT1401	35619-Y2V0310-0000	Water inlet
120	JMRT1402	35645-Y2A0210-0000	Hose joint
121	JMRT1403	35614-Y020510-0000	Hose interface
122	JMRT1404	35629-Y090110-0000	Hose hoop subassembly
123	JMRT1405	35621-Y020110-0000	Eyelet bolt
124	NS	90255-0510-53	Mechanical seal assembly
125	NS	35610-YB21610-H300	Porcelain seal
126	NS	90007-0616-A3	Impeller seal ring
127	JMRT1407	70400-V280210-0000	Hose hoop subassembly
128	NS	90408-Y020310-0000	Strainer
NS		30043-YB20610-0000	Water pump assembly



*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

RV340D Commercial Engine



Product Information

The RATO RV340D is a premium 13hp engine with high durability and large powerful vertical crankshaft with dual element air filtration. Features a cast iron cylinder liner for longer life and transistorized CDI ignition.

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

Features

- Auto choke.
- Steel forges and hardened crankshaft.
- Automatic compression release.
- Automatic low oil engine shutdown system.



SPECIFICATIONS

RV340D

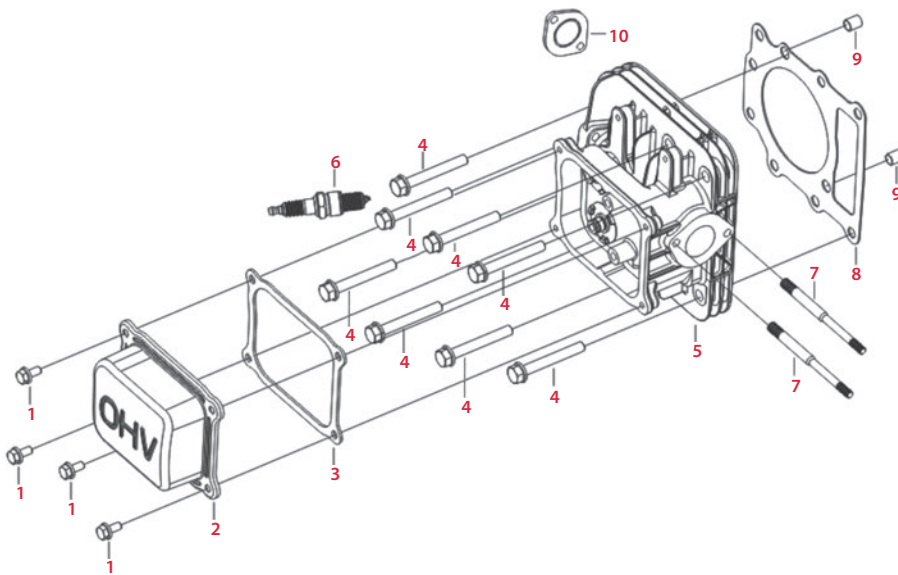
Engine model	Single cylinder, 4 stroke, OHV
Bore x stroke	88 x 56mm
Displacement	340.6cc
Compression ratio	9 : 1
Net power	7kw / 3600rpm
Net torque	20Nm / 2500rpm
PTO shaft rotation	Counter clockwise (vertical output)
Ignition system	Transistorized magneto type
Starting system	Recoil & electric start
Lubrication system	Forced splash
Carburettor	Flat suction valve carburettor
Governor system	Centrifugal mechanical
Air cleaner	Dual element (foam)
Oil capacity	1.1 litre
Fuel tank capacity	3.5 litres
Dimensions (L x W x H mm)	415 x 460 x 320
Net weight	24.5kg
Fuel consumption	≤374 (g/kw-h)
Application	Lawn mower, pressure washer, ride on mower

RV340D Commercial Engine

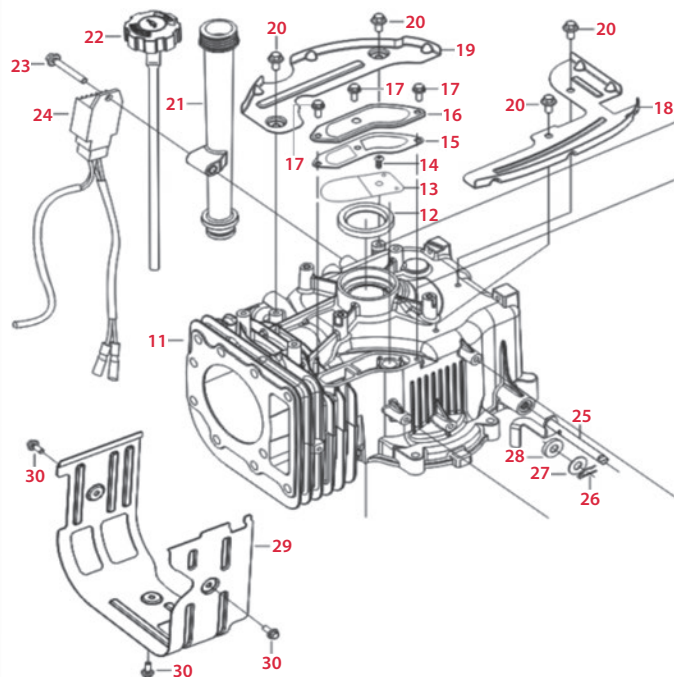
*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug (below)			
1	NS	90001-0612-01	Cylinder head cover bolt subassembly
2	NS	12410-Z320110-0000	Cylinder head cover subassembly
3	JMRT1167	12004-Z320110-0000	Cylinder head cover gasket
4	NS	12003-Z320110-0000	Cylinder head bolt
5	NS	12140-Z320410-0000	Cylinder head subassembly

Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
6	JMRT1003	30010-Z010110-0000	Spark plug
7	NS	90204-Z100410-0000	Stud
8	JMRT1168	12130-Z320210-0000	Cylinder head gasket
9	NS	90502-1014-00	Pin
10	JMRT1169	18001-Z320110-0000	Exhaust outlet gasket



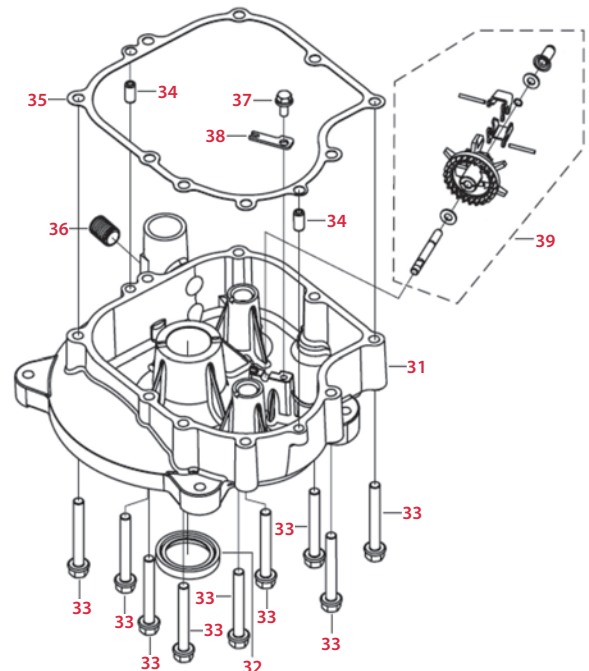
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase (right)			
11	NS	11310-Z320210-0000	Crankcase subassembly
12	JMRT1170	90682-Z320110-0000	Oil seal
13	JMRT1171	11320-Z320210-0000	Breath piece
14	NS	90103-0410-51	Bolt
15	JMRT1172	11332-Z320310-0000	Breath groove cover gasket plate
16	JMRT1173	11333-Z320410-0000	Breath groove cover plate
17	NS	90001-0516-01	Bolt
18	NS	19308-Z320120-0000	Crankcase side shield
19	NS	19309-Z320120-0000	Crankcase side shield
20	NS	90001-0612-01	Bolt
21	JMRT1174	15020-Z320110-Q200	Fuelling tube
22	JMRT1175	15010-Z320110-Q500	Oil dipstick subassembly
23	NS	90001-0640-01	Bolt
24	NS	30600-Z320410-0000	Rectifier
25	NS	16060-Z320110-0000	Governor arm
26	NS	90501-Z010110-0000	Pin
27	NS	90412-Z080210-0000	Washer
28	NS	90682-Z100210-0000	Seal, oil
29	NS	19304-Z320110-0000	Cylinder body shroud
30	NS	90001-0512-01	Bolt



*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

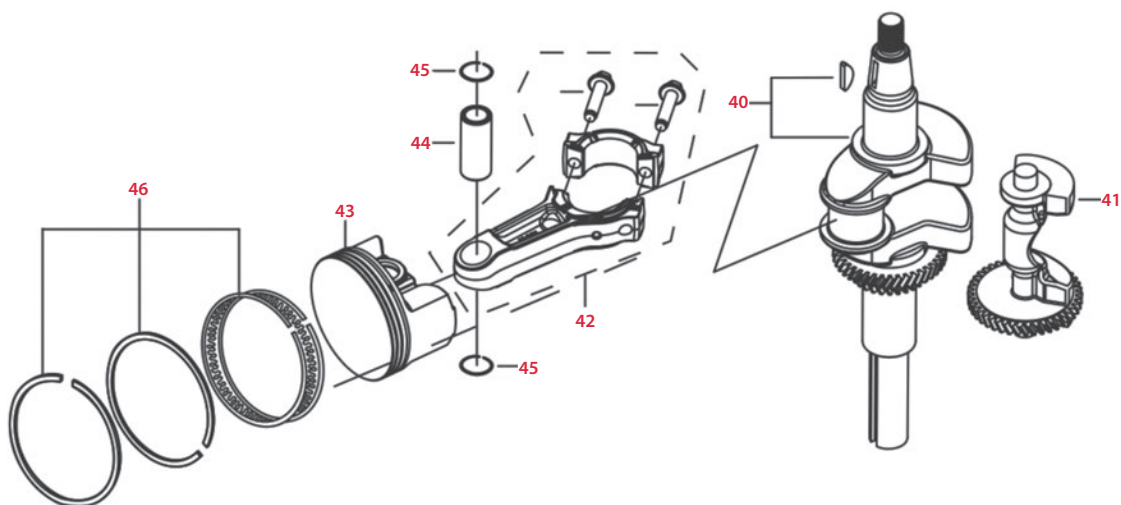
RV340D Commercial Engine

Item	JAK Max Part No.	RATO Part No.	Description
Crankcase Cover Subassembly & Governor Gear Assembly			
31	NS	11411-Z320210-0000	Crankcase cover
32	JMRT1170	90682-Z320110-0000	Oil seal
33	NS	90001-0860-01	Bolt
34	NS	90502-0812-00	Pin
35	JMRT1176	11001-Z320210-0000	Crankcase gasket
36	JMRT1177	11007-Z320210-0000	Drain plug bolt
37	NS	90001-0612-01	Bolt
38	NS	16013-Z320110-0000	Governor spindle compression plate
39	NS	16400-Z320110-0000	Governor gear assembly



Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft Connecting Rod (below)			
40	JMRT1178	13300-Z320610-0000	Crankshaft assembly
41	JMRT1179	13401-Z320120-0000	Balancing shaft
42	JMRT1180	13010-Z320110-0000	Connecting rod
43	JMRT1181	13111-Z320310-0000	Piston

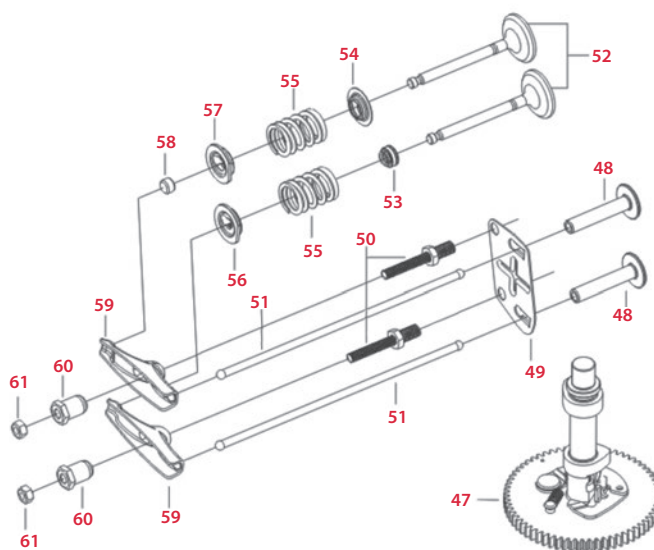
Item	JAK Max Part No.	RATO Part No.	Description
Crankshaft Connecting Rod - continued (below)			
44	JMRT1182	13121-Z320110-0000	Piston pin
45	JMRT1183	13122-Z100110-0000	Connecting rod bolt
46	JMRT1184	13200-Z100110-0099	Piston rings set



RV340D Commercial Engine

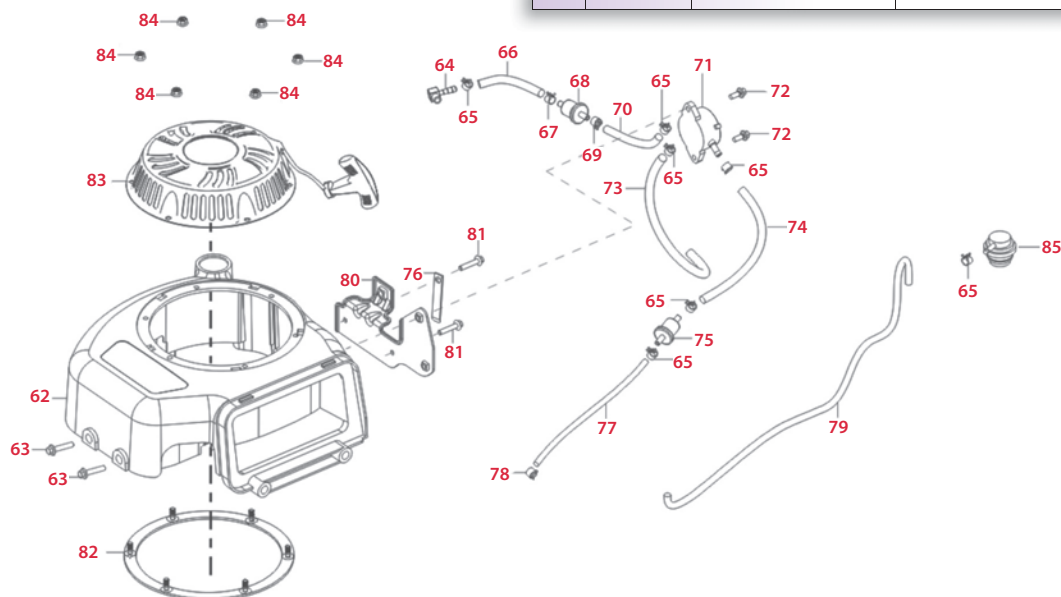
*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

Item	JAK Max Part No.	RATO Part No.	Description
Valve Train & Camshaft Subassembly (right)			
47	JMRT1185	14200-Z320410-0000	Camshaft assembly
48	JMRT1186	14081-Z320110-0000	Valve tappet
49	JMRT1187	14090-Z320110-0000	Lifter stopper plate subassembly
50	JMRT1188	14313-Z010110-0000	Valve adjusting bolt
51	JMRT1189	14070-Z320120-0000	Valve lifter subassembly
52	JMRT1190	12110-Z320110-0000	Set valve
53	JMRT1191	12101-Z080110-0000	Seal guide
54	JMRT1192	12105-Z080110-0000	Valve spring retainer
55	JMRT1193	12103-Z080110-0000	Valve spring
56	JMRT1194	12112-Z080110-0000	Valve spring seat
57	JMRT1195	12107-Z080110-0000	Exhaust valve retainer
58	JMRT1196	12104-Z080110-0000	Valve rotator
59	JMRT1197	14311-Z320110-0000	Valve rocker
60	NS	14314-Z010110-0000	Valve adjusting nut
61	NS	14312-Z010110-0000	Valve lock nut



Item	JAK Max Part No.	RATO Part No.	Description
Outer Housing (below)			
62	NS	14200-Z320410-0000	Shroud
63	NS	28110-Z320210-Q200	Bolt
64	NS	90001-0630-01	Negative pressure mouth
65	NS	12502-Z130130-0000	Clamp
66	NS	90685-Z020110-0000	Tube
67	NS	11017-Z320410-0000	Clamp
68	JMRT1200	90685-1400-Z4	Fuel filter
69	NS	16030-Z120210-0000	Clamp
70	NS	90685-Y950210-0000	Tube
71	JMRT1201	11017-Z320310-0000	Gasoline pump assembly
72	NS	16300-Z130120-0000	Bolt
73	NS	90001-0616-01	Fuel tube

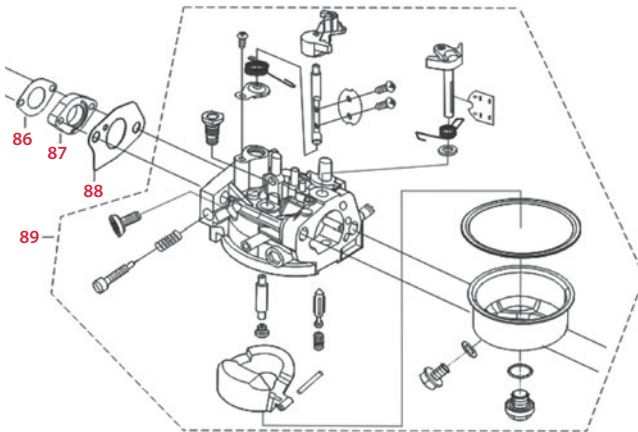
Item	JAK Max Part No.	RATO Part No.	Description
Outer Housing - continued (below)			
74	NS	90686-Z320810-0000	Fuel tube
75	NS	90686-Z320710-0000	Fuel strainer
76	NS	16510-Z320110-0000	
77	NS	90684-Z030120-0000	Fuel tube
78	NS	90686-Z320310-0001	Clamp
79	NS	90685-Z030220-0000	Fuel tube
80	NS	90686-Z320610-0000	
81	NS	16613-Z320110-0000	Bolt
82	NS	90001-0635-01	
83	JMRT1202	28260-Z320110-0000	Starter Recoil assembly
84	NS	28200-Z320110-H300	Nut
85	NS	90305-0600-31	One way valve
	NS	15150-Z320110-0000	



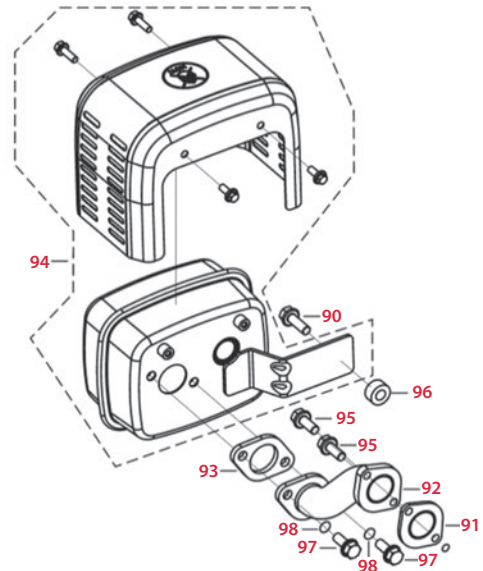
*NS - Not Stocked by JAK Max however available from RATC. Special order only, 3 month lead time.

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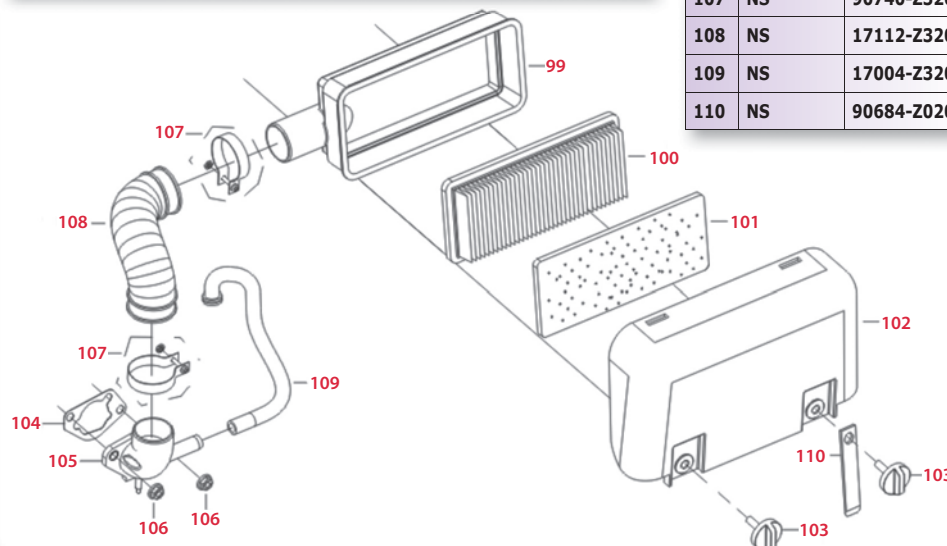
Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (below left)			
86	JMRT1203	17002-Z320110-0000	Inlet gasket
87	JMRT1204	16003-Z320110-0000	Carburettor insulator plate
88	JMRT1205	16001-Z100110-0000	Carburettor gasket
89	JMRT1206	16100-Z320510-0009	Carburettor assembly



Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (below right)			
90	NS	90001-0825-01	Bolt
91	JMRT1169	18001-Z320110-0000	Exhaust outlet gasket
92	JMRT1214	18150-Z320120-0000	Exhaust pipe
93	JMRT1215	18001-Z080110-0000	Exhaust outlet gasket
94	JMRT1216	18100-Z320510-0000	Muffler assembly
95	NS	90102-0820-01	
96	NS	90683-Z320610-0000	
97	NS	90102-0835-01	Bolt
98	NS	90403-0800-Z1	



Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner Assembly (below)			
99	JMRT1207	17101-Z320110-0000	Air cleaner case
100	JMRT1208	17150-Z320110-0000	Air cleaner element subassembly
101	JMRT1209	17151-Z320110-0000	Air cleaner element
102	JMRT1210	17104-Z320110-Q200	Air cleaner case cover
103	JMRT1211	17113HZ320210-0000	Air cleaner connecting bolt
104	JMRT1212	17001-Z080210-0000	Air cleaner gasket
105	NS	17109HZ320210-0000	Air cleaner intake duct

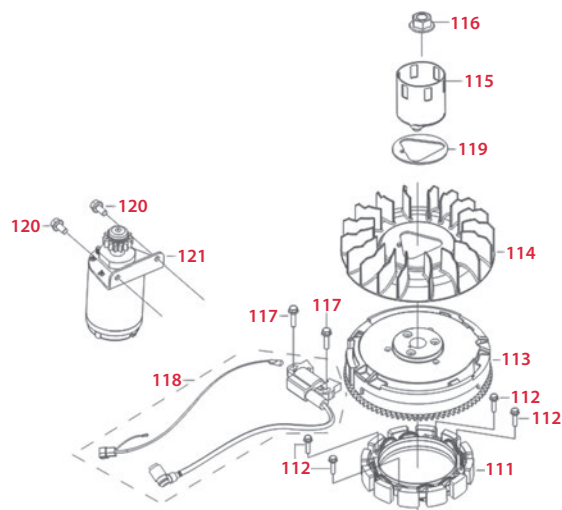


Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner Assembly - continued (below)			
106	NS	90305-0600-31	Nut
107	NS	90740-Z320210-0000	Collar
108	NS	17112-Z320110-0000	Air cleaner connecting tube
109	NS	17004-Z320130-0000	Breather tube
110	NS	90684-Z020410-0000	

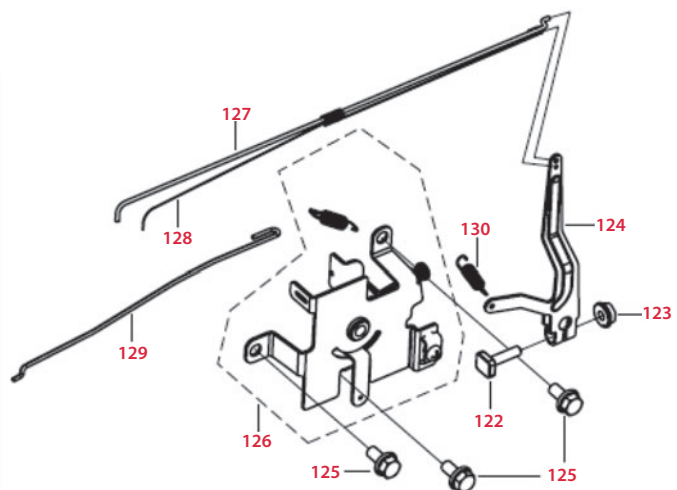
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*NS - Not Stocked by JAK Max however available from RATO. Special order only, 3 month lead time.

Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (right)			
111	NS	30140-Z320410-0000	Charge coil subassembly
112	NS	90001-0520-01	Bolt
113	NS	13510-Z320210-0000	Flywheel
114	NS	19352-Z320120-0000	Impeller
115	JMRT1217	28002-Z080310-0000	Starter pulley
116	NS	13501-Z080110-0000	Flywheel nut
117	NS	90001-0628-01	Bolt
118	JMRT1218	30400-Z320210-0101	Ignition coil
119	NS	19356-Z320110-0000	
120	NS	90001-0830-01	Nut
121	NS	30300-Z320150-0000	Starting motor assembly



Item	JAK Max Part No.	RATO Part No.	Description
Throttle Control Assembly (right)			
122	NS	16072-Z010110-0000	Governor support bolt
123	NS	90305-0600-31	Nut
124	NS	16070-Z320120-0000	Governor support subassembly
125	NS	90001-0612-01	Bolt
126	JMRT1219	16520-Z320610-JS00	Throttle control assembly
127	JMRT1220	16062-Z320110-0000	Governor rod
128	JMRT1221	16012-Z320120-0000	Throttle valve returning spring
129	JMRT1222	16123-Z320110-0000	Choke rod
130	JMRT1223	16063-Z320210-0000	Governor spring



Item	JAK Max Part No.	RATO Part No.	Description
Fuel Tank Assembly (right)			
131	JMRT1224	16620-Z320110-0009	Fuel tank
132	JMRT1225	16730-Z320210-0000	Fuel tank cover
133	NS	90685-Z030410-0000	Clamp
134	NS	16612-Z320110-0000	
135	NS	90001-0875-01	Bolt
136	NS	90412-U040110-0000	Washer
137	NS	16602-Z320110-0000	Fuel tank rubber sleeve
138	NS	90683-Z320710-0000	Bush
139	NS	90001-0825-01	Bolt
140	NS	16652-Z030110-0000	Fuel strainer

