

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

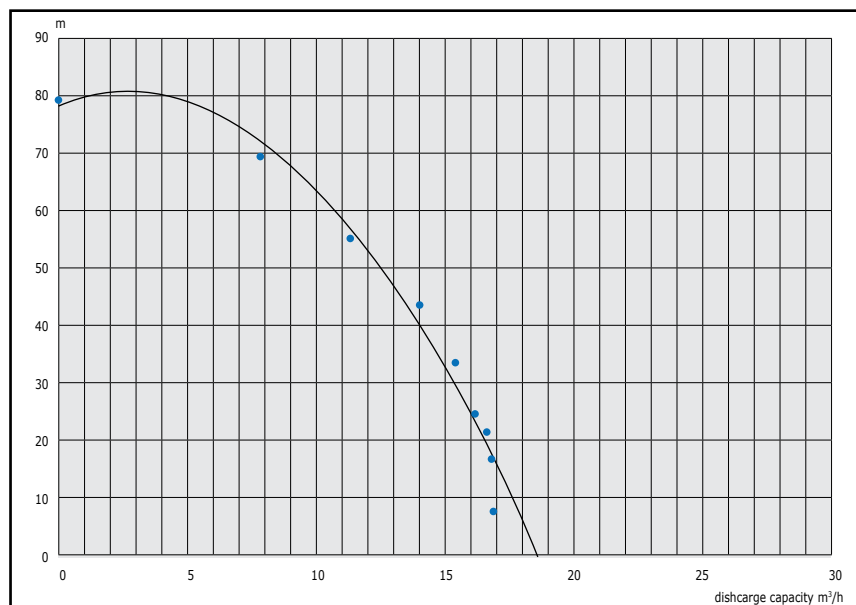
Engine model	R210 / 7hp
Engine type	Single cylinder, 4 stroke, OHV
Starting system	Recoil start
Bore x stroke	70 x 55mm
Displacement	212ml
Compression ratio	9 : 1
Net power	4.2kw / 3600rpm
Fuel consumption	≤395 (g/kw-h)
Net torque	12N.m / 2500rpm
Pump set	1.5" high lift pump
Suction port diameter	38mm (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					

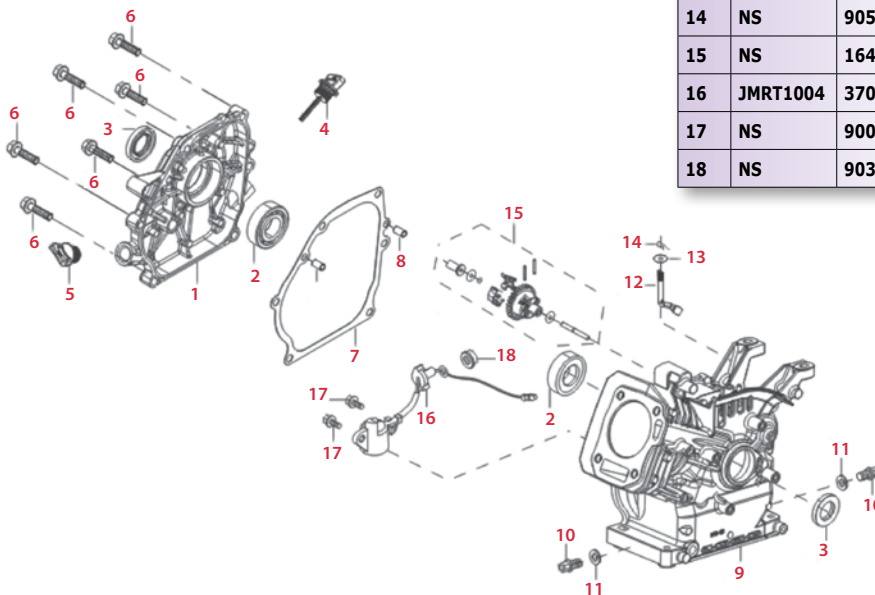


*NS - Not Stocked by JAK Max
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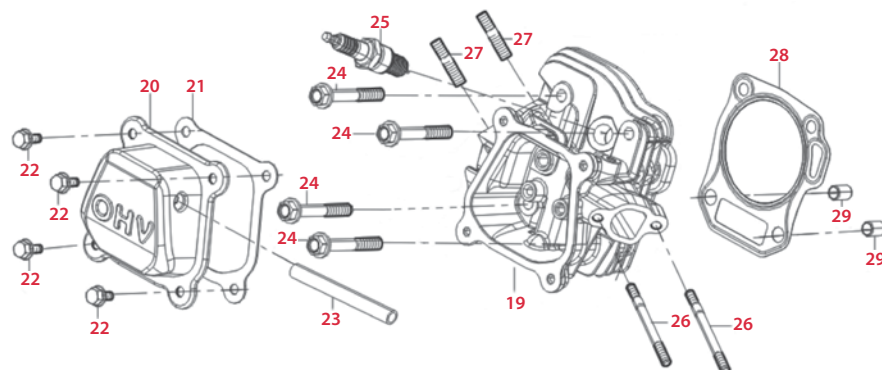
Item	JAK Max Part No.	RATO Part No.	Description
Crankcase, Governor Gear Assy, Crankcase Cover Sub Assy			
1	NS	11411-Z440410-00A0	Crankcase cover
2	NS	90548-0205-00A0	Deep groove ball bearing
3	NS	90682-Z300110-00A0	Oil seal
4	JMRT1007	15010-Z010130-Q500	Oil dipstick subassembly
5	NS	15030-Z010130-Q500	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

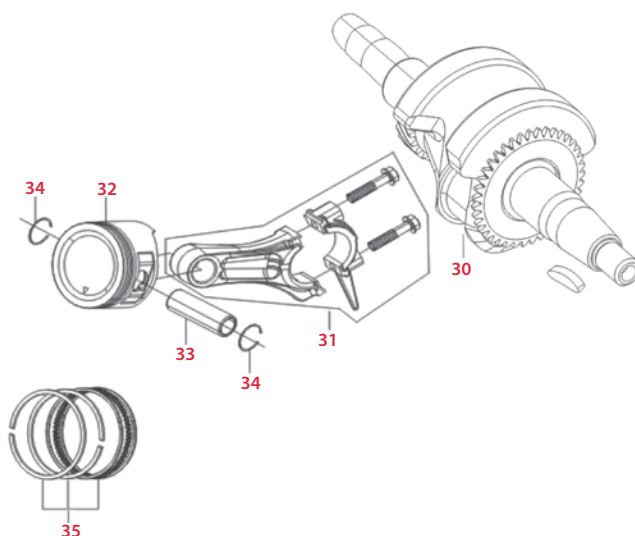
Item	JAK Max Part No.	RATO Part No.	Description
Cylinder Head Subassembly & Spark Plug - continued (below)			
25	BPR6ES/N9YC	30010-Z010110-0000	Spark plug
26	NS	90204-Z010310-0000	Stud
27	NS	90203-Z010110-0000	Stud
28	NS	12131-Z950110-00A0	Cylinder head gasket
29	NS	90502-1114-00	Pin



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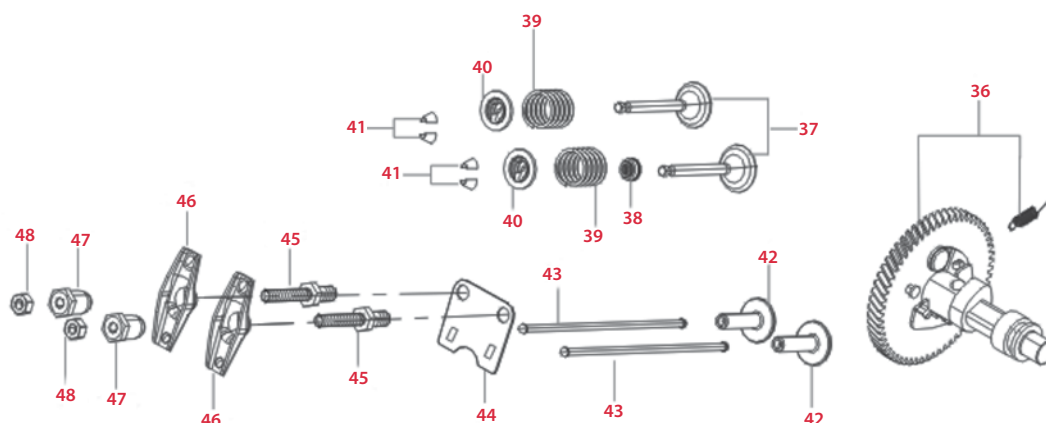
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Item	JAK Max Part No.	RATC Part No.	Description
Crankshaft Connecting Rod (Right)			
30	JMRT1009	13300-Z532510-0000	Crankshaft assembly
31	NS	13010-Z440210-00A9	Connecting rod
32	NS	13111-Z140220-00A9	Piston
33	NS	13121-Z010110-00A0	Piston pin
34	NS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



Item	JAK Max Part No.	RATC 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

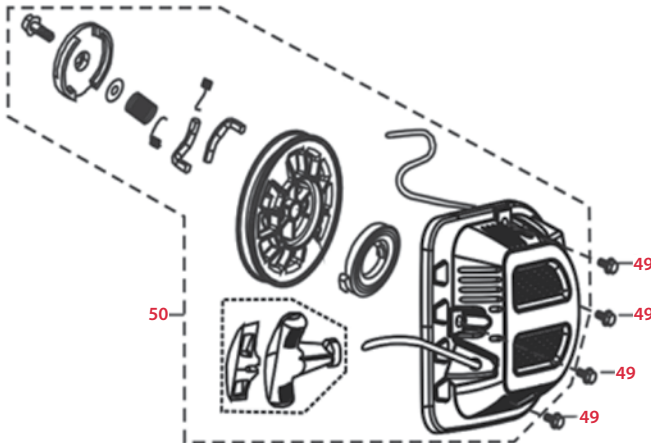
Item	JAK Max Part No.	RATC Part No.	Description
Valve Train & Camshaft Subassembly - continued (below)			
43	NS	14071-Z440110-00A0	Valve lifter
44	JMRT1025	14090-Z010110-0000	Lifter stopper plate subassembly
45	NS	14313-Z010110-00A0	Rocker shaft bolt
46	NS	14311-Z010110-00A0	Valve rocker
47	JMRT1028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



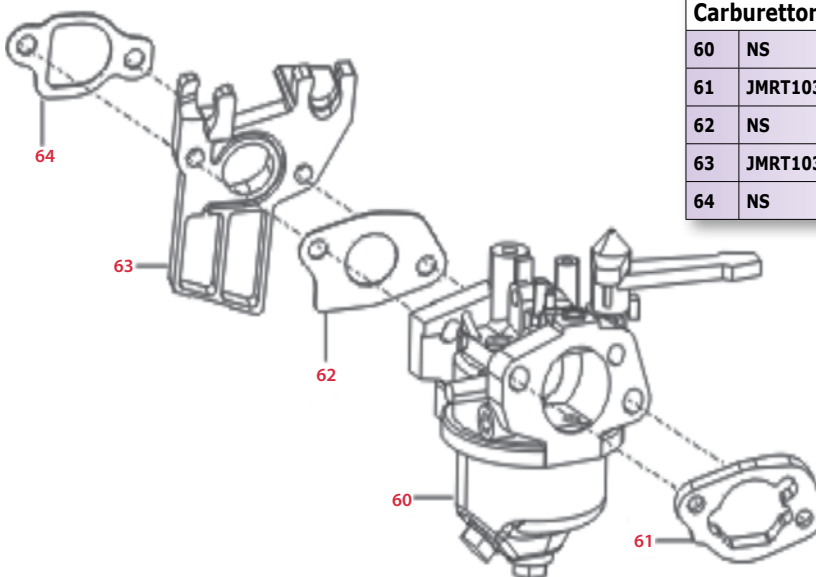
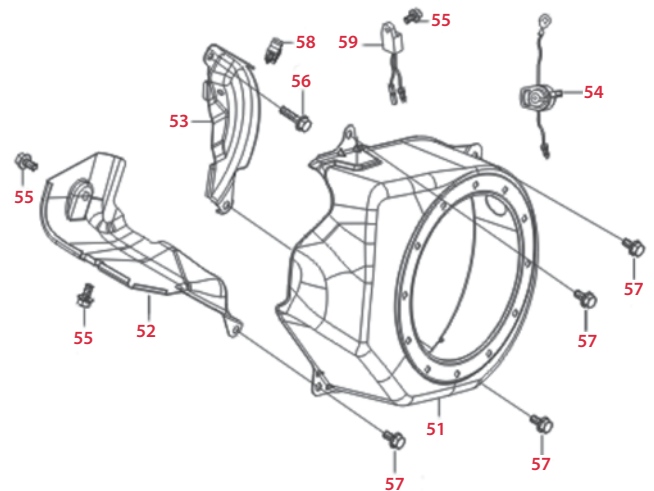
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Item	JAK Max Part No.	RATO Part No.	Description
Starter Recoil (Below Left)			
49	NS	90001-0612-01	Bolt
50	JMRT1031	28200-Z010320-Q200	Starter Recoil assembly



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

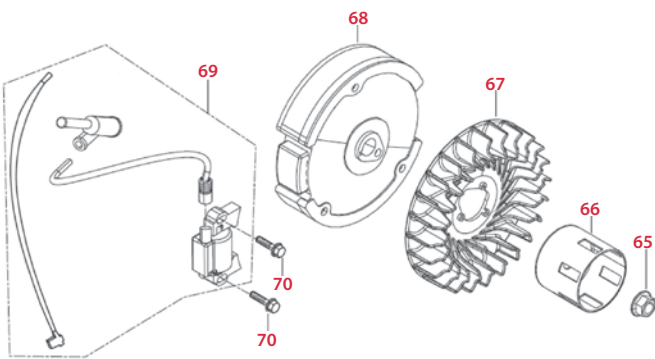


Item	JAK Max Part No.	RATO Part No.	Description
Carburettor Assembly (Left)			
60	NS	16100-Z530610-00A9	Carburettor assembly
61	JMRT1037	17001-Z010210-0000	Air cleaner gasket
62	NS	16001-Z010110-0000	Carburettor gasket
63	JMRT1039	16003-Z010110-0000	Carburettor insulator plate
64	NS	16002-Z010110-0000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

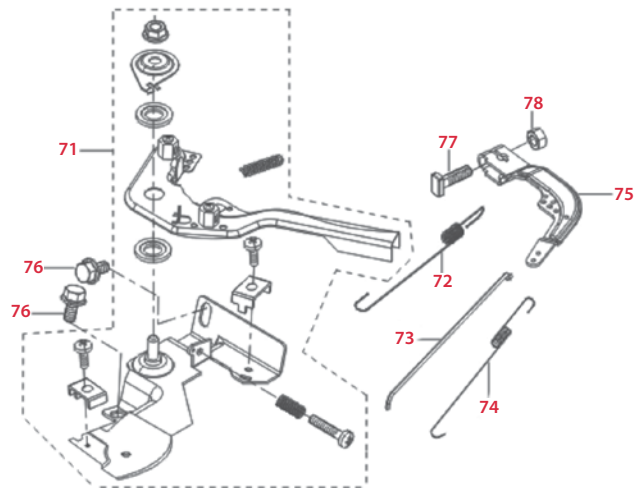
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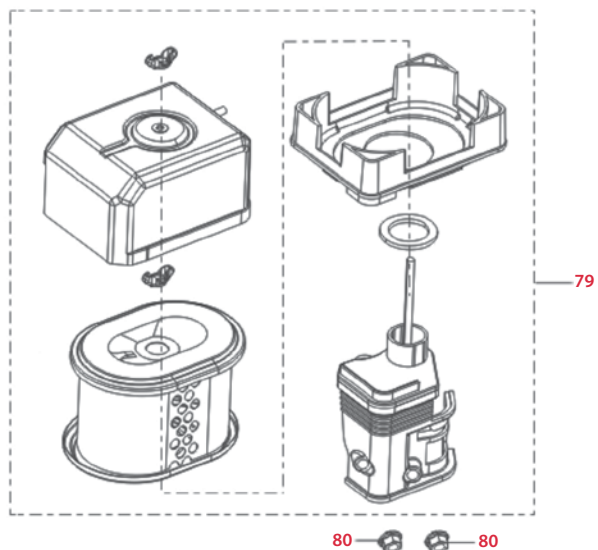
Item	JAK Max Part No.	RATO Part No.	Description
Flywheel, Impeller, Starter Pulley & Ignition Coil (Below Left)			
65	NS	13501-Z010110-0000	Flywheel nut
66	JMRT1051	28002-Z300210-0000	Starter cup
67	NS	19352-Z440210-00A0	Impeller
68	NS	13510-Z440410-00A0	Flywheel subassembly
69	NS	30400-Z440410-0000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



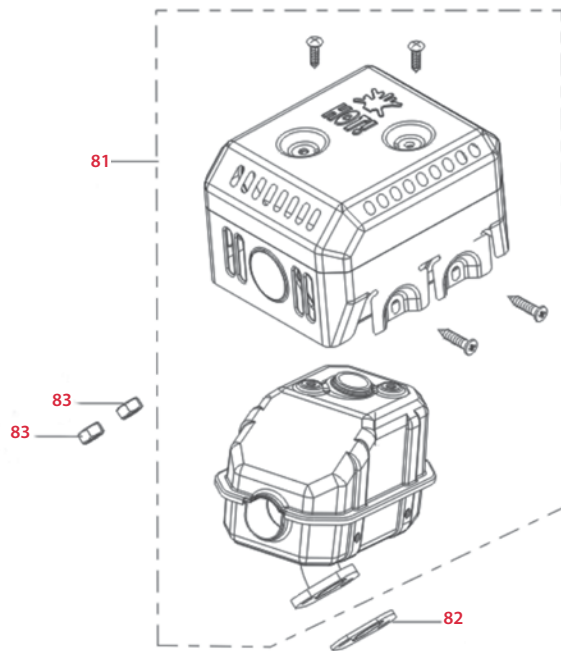
Item	JAK Max Part No.	RATO Part No.	Description
Air Cleaner (Right)			
79	JMRT1371	17100-Z011110-0099	Air cleaner
80	JMRT1321	90305-0600-31	Nut



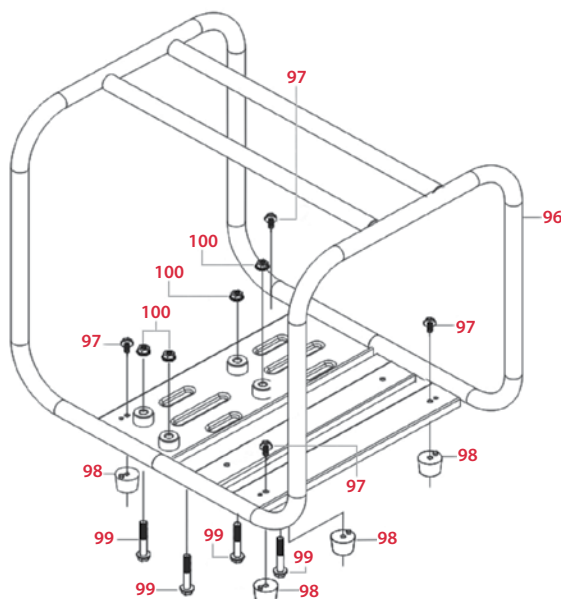
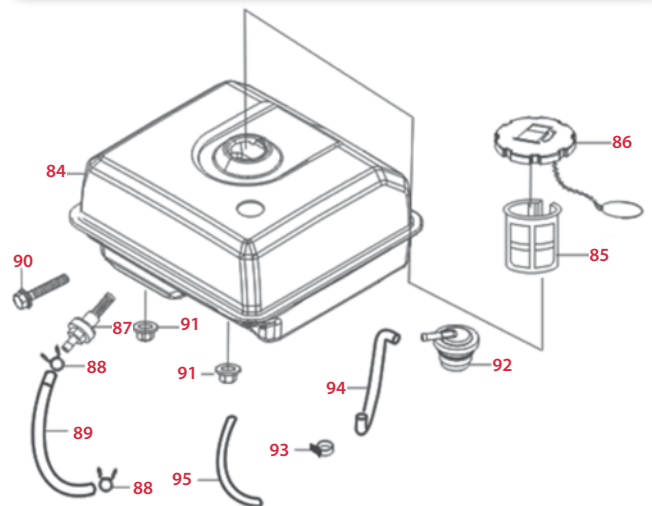
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Item	JAK Max Part No.	RATO Part No.	Description
Muffler Assembly (Below Left)			
81	NS	18100-Z440110-0000	Muffler assembly
82	JMRT1045	18001-Z440110-0000	Exhaust outlet gasket
83	NS	90303-0800-31	Nut



Item	JAK Max Part No.	RATO 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.	RATO 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

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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

