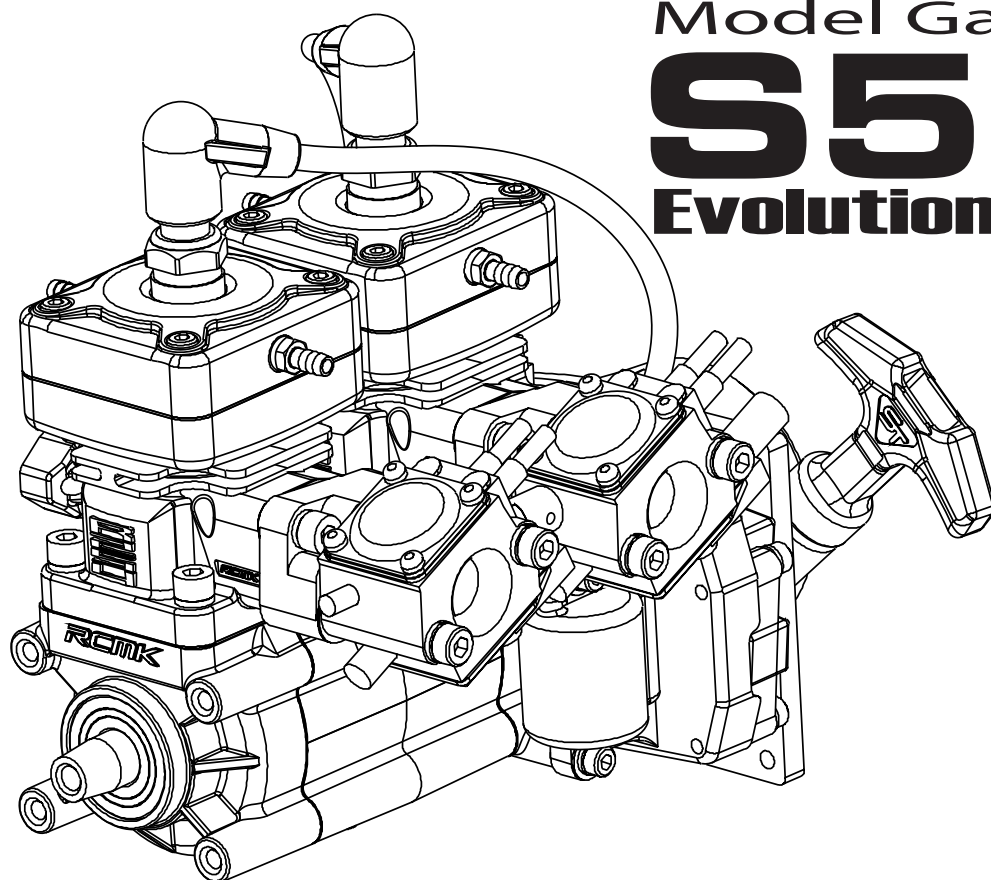




HIGH PERFORMANCE
Model Gas Engine
S520
Evolution Version

Engine Features

- | | |
|--|----------------------------|
| - 6 bearings crank case | - Walbro WT-929 carburator |
| - 6001 standard bearing for crankshaft | - Water cooling cylinder |
| - Stronger crankshaft and connecting rod | - Start pulley |

WARNING



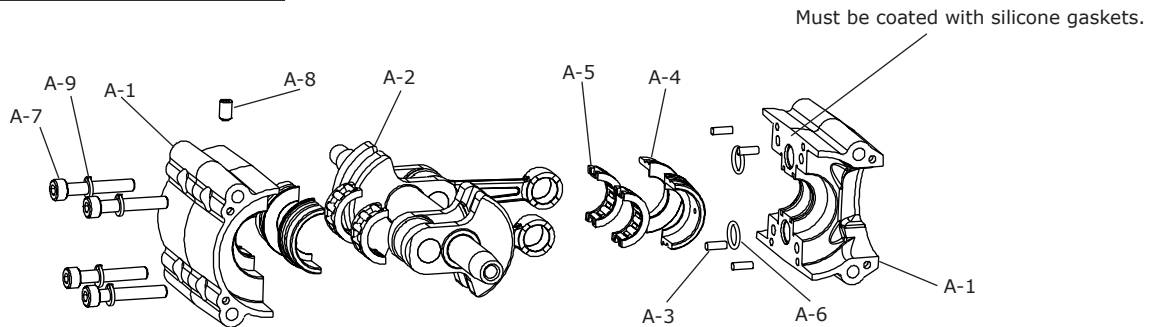
Model Gas Engine **S520**
www.rcmk.com

- Before use engine, read description necessarily.
- This engine is designed and made for use on model boat. So we recommend to use on model boat
- Use genuine parts for replacement.
- Check the bolts fixation condition of engine every time. If the bolts are loosed, fix the loosed bolt, and after check once again.

Assembly Method

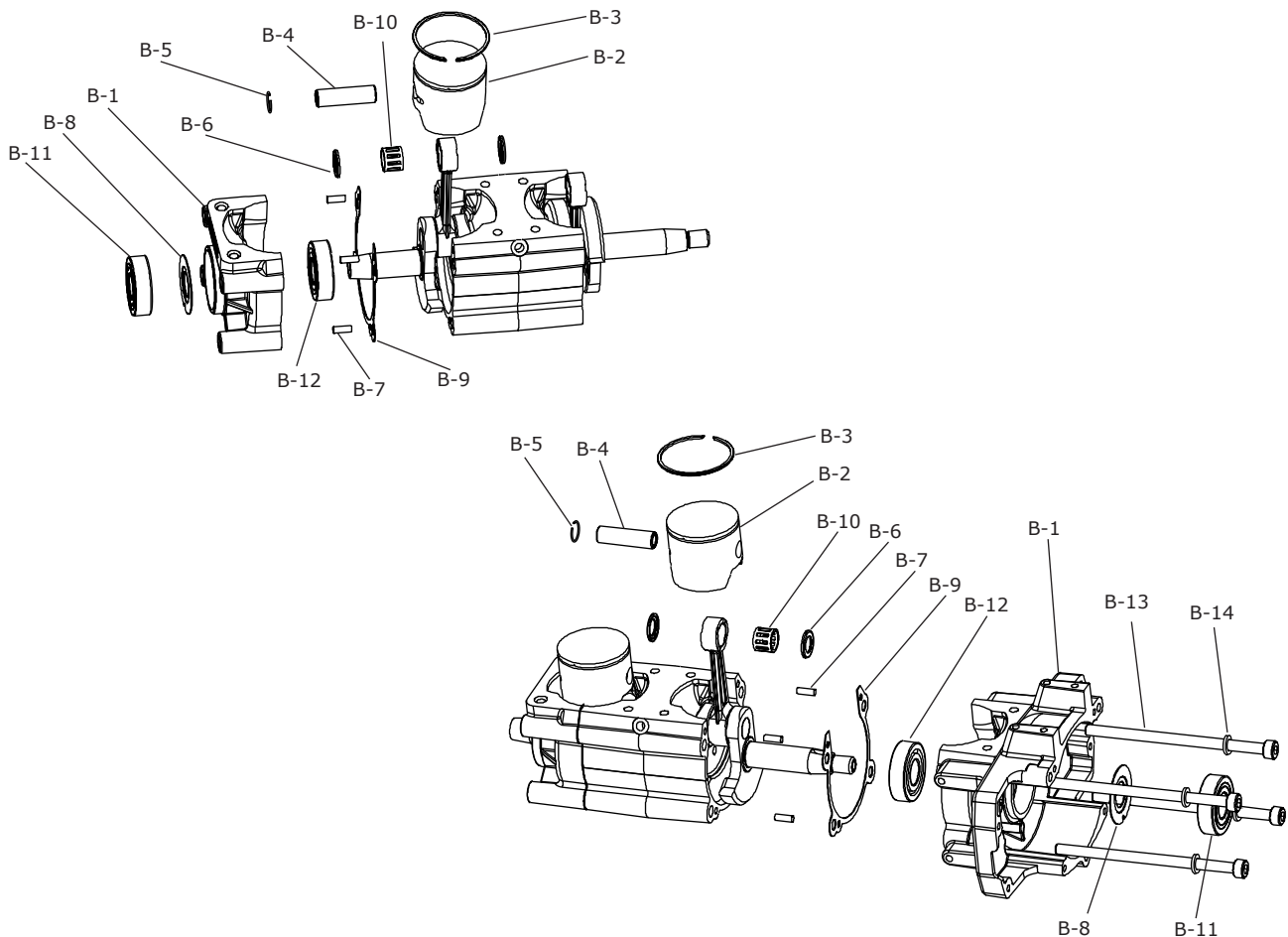


A. Crankroom Assemble 1



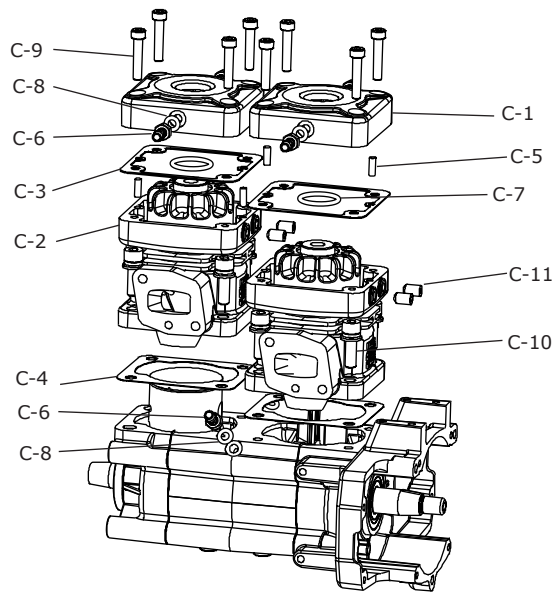
Key	Part Number	Description	Q'TY	Key	Part Number	Description	Q'TY
A-1	0207000090	S520 Crankcase	1	A-6	-	O-ring S9	2
A-2	0207000089	Crank assembly - Twin	1	A-7	-	Bolt M5 x 30	4
A-3	0207000027	Pin 3P x 8	4	A-8	-	Set Screw M5 x 8	1
A-4	-	Bearing Guide	2	A-9	-	Spring Washer P5	4
A-5	-	Bearing	2				

B. Crankroom Assemble 2



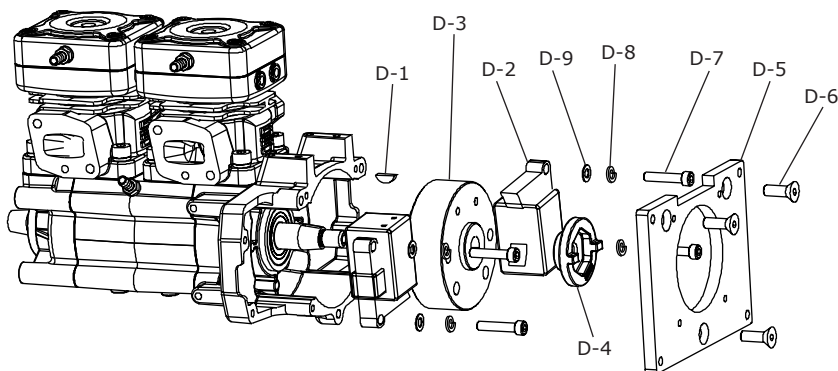
Key	Part Number	Description	Q'TY	Key	Part Number	Description	Q'TY
B-1	0207000090	S520 Crankcase	1	B-8	0207000071	Brass oil plate	2
B-2	0207000067	S254 Piston	2	B-9	0207000064	S254 Gasket for Crankcase	2
B-3	0207000025	Piston Ring	2	B-10	3704000001	Needle roller bearing KT 8 11 10	2
B-4	0207000006	Piston pin	2	B-11	3703000004	Bearing 6001JRLLU	2
B-5	0207000028	Snap-ring - C type	2	B-12	3703000003	Bearing 6001C3	2
B-6	0207000012	Wrist Pin Bearing Spacer	4	B-13	-	Bolt M5 x 90	4
B-7	0207000027	Pin 3P x 8	6	B-14	-	Spring Washer P5	4

C. Cylinder Assemble



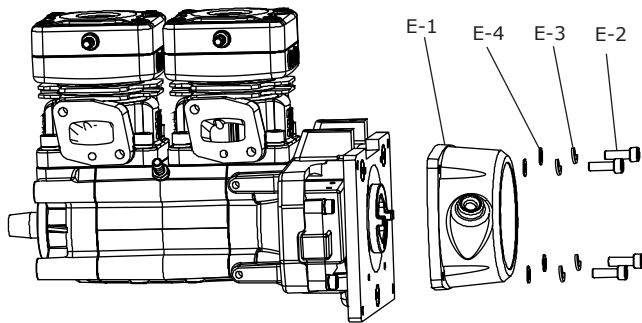
Key	Part Number	Description	Q'TY
C-1	0207000076	R254 evolution Cylinder Cap	2
C-2	0207000075	R254 evolution Cylinder	2
C-3	0207000032	Gasket for Cylinder Head	2
C-4	0207000031	Gasket for Cylinder	2
C-5	0207000027	Pin 3P x 8	4
C-6	0403000002	Fitting M5	6
C-7	4602000006	O-ring 16 x 2	2
C-8	4602000004	O-ring P4	6
C-9	-	Bolt M4 x 20	8
C-10	-	Bolt M5 x 17	8
C-11	-	Set Screw M5 x 8	4

D. Rotor Assemble



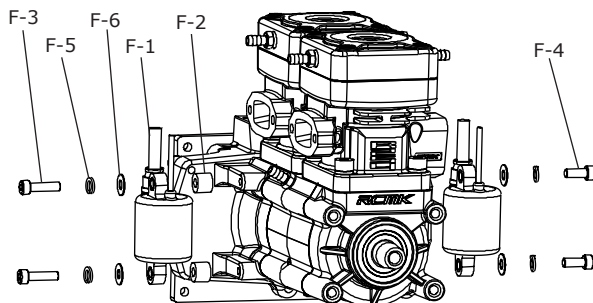
Key	Part Number	Description	Q'TY	Key	Part Number	Description	Q'TY
D-1	0207000024	Woodruff key	1	D-6	-	Bolt M5 X 15	3
D-2	0207000010	R254 Source Coil	2	D-7	-	Bolt M4 x 20	4
D-3	0207000092	S520 Rotor	1	D-8	-	Spring Washer P4	4
D-4	0207000060	Starter Pulley Nut2	1	D-9	-	Washer P4 (small)	4
D-5	-	Mount (Not include)	1				

E. Recoil Assemble



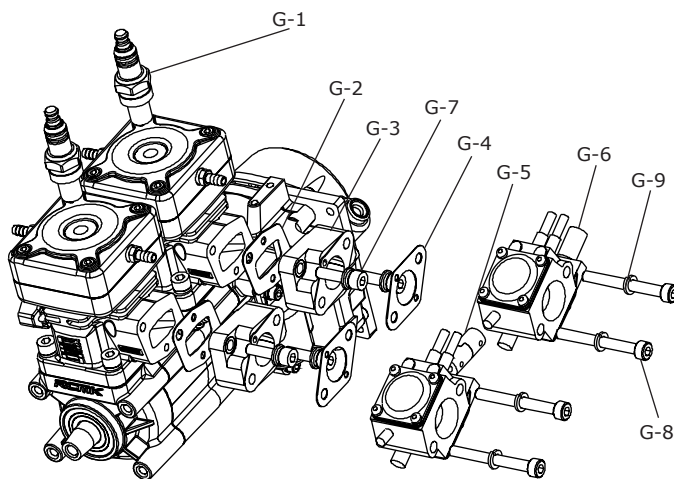
Key	Part Number	Description	Q'TY
E-1	0207000047	Recoil Starter	1
E-2	-	Bolt M4 x 12	4
E-3	-	Spring Washer P4	4
E-4	-	Washer P4 (small)	4

F. Ignition Coil Assemble



Key	Part Number	Description	Q'TY
F-1	0207000011	R254 Ignition Coil	2
F-2	-	Spacer	2
F-3	-	Bolt M4 x 20	2
F-4	-	Bolt M4 x 12	2
F-5	-	Spring Washer P4	4
F-6	-	Washer P4	4

G. Caburator Assemble



Key	Part Number	Description	Q'TY
G-1	4801000001	Spark Plug CMR7H	2
G-2	0207000034	Gasket for Insulator	2
G-3	0207000016	R254 Insulator block	2
G-4	0207000030	Gasket for Carburator	2
G-5	0204000013	Throttle Link Assy	1
G-6	4001000002	Carburetor WT-929	2
G-7	-	Bolt M5 x 20	4
G-8	-	Bolt M5 x 45	4
G-9	-	Spring Washer P5	4

Update - 2010/09/30