

Figure 1 – Assembly

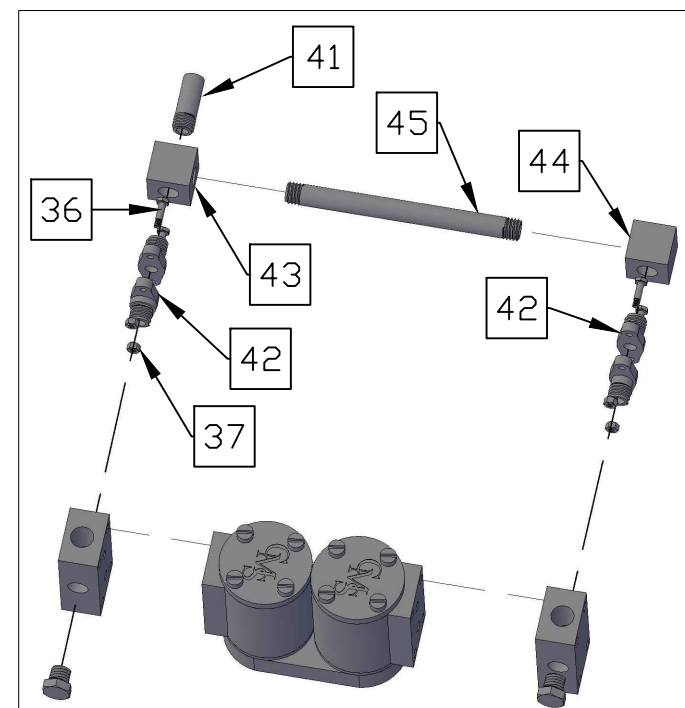
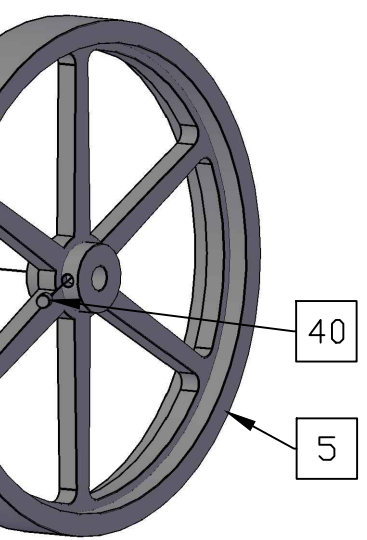


Figure 2 – Inlet Manifold (Optional)

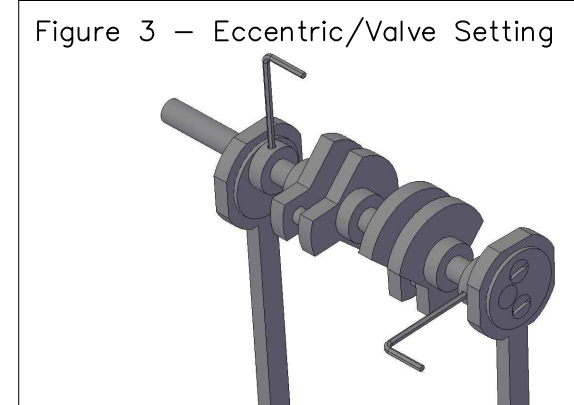


Figure 3 – Eccentric/Valve Setting

No.	Qty	Description	Material
1	1	Bitsa Twin Base Plate	Steel
2	1	Bitsa Twin Top Plate	Steel
3	4	Bitsa Twin Legs	Steel
4	2	Vertical Tube Slider	Brass
5	1	Beam Flywheel	Steel
6	1	Twin Cylinder Crank	Steel
7	2	Con Rod Bearing Keep	Steel
8	2	Connecting Rod	Stainless Steel
9	4	Con Rod Bearing Halves	Bronze
10	2	Slider Pin	Steel
11	1	Bitsa Twin Mid Plate	Steel
12	4	Beam Columns	Steel
13	2	Eccentric Wheel	Steel
14	2	Eccentric Wheel Plate	Steel
15	2	Eccentric Rod	Brass
16	2	Valve	Stainless Steel
17	2	Chest	Brass
18	2	Chest Plug	Brass
19	2	Packing Nut	Brass
20	2	Piston	Brass
21	2	Piston Shaft	Stainless Steel
22	4	Piston Ring	Teflon
23	2	Cylinder	Brass
24	2	Cylinder Plate Inner	Brass
25	2	Cylinder Plate End	Brass
26	3	Main Bearing Upper	Bronze
27	6	Main Bearing Lower	Bronze
28	2	Vertical Slider Tube	Steel
29	8	Cap Screw M3 x 48mm	Stainless Steel
30	24	Cap Screw M3 x 10mm	Stainless Steel
31	6	Cap Screw M3 x 25mm	Stainless Steel
32	8	Cap Screw M3 x 18mm	Stainless Steel
33	8	Cap Screw M3 x 12mm	Stainless Steel
34	26	M3 Nut	Stainless Steel
35	4	Cap Screw M5 x 10mm	Stainless Steel
36	6 (+4)	Cap Screw M2 x various (Optional)	Stainless Steel
37	2 (+4)	M2 Nut (Optional)	Stainless Steel
38	4	Counter Sunk Screw M3	Stainless Steel
39	2	M3 Grub/SetScrew x 3mm	Stainless Steel
40	1	M3 Grub/SetScrew x 4mm	Stainless Steel
41	2 (+1)	Inlet/Outlet Pipe (Optional)	Brass
42	4	Manifold (Optional)	Brass
43	1	Inlet Tee (Optional)	Brass
44	1	Inlet Elbow (Optional)	Brass
45	1	Link Pipe (Optional)	Brass

Drawn By: Simon Rowley	Checked By:	File Name: Bitsa Twin Assembly	Date: Sept 2019	Scale: N/A
Copyright: Chiltern Model Steam		Part: Bitsa Twin Cylinder Engine Assembly Drawing		
Material: N/A		Rev: 1.0	Part: N/A	