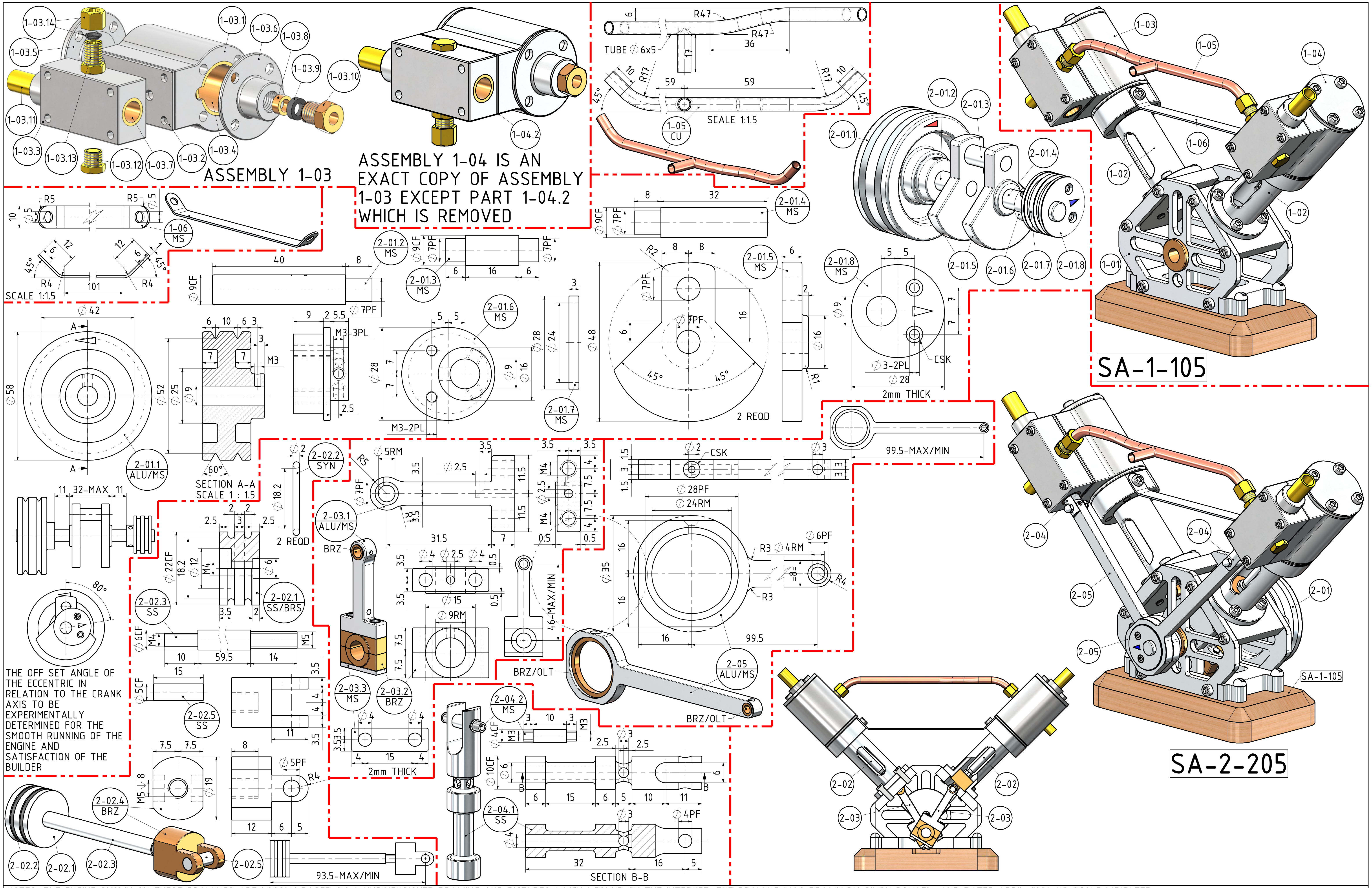
1-03.14
1-03.5
1-03.1
1-03.6
1-03.8
1-03.9
1-03.10
1-03.11
1-03.3
1-03.13
1-03.12
1-03.7
1-03.2
1-03.4
ASSEMBLY 1-03
1-04.2
TUBE ∅ 6x5
R47
R47
36
17
6
10
R17
59
59
R17
10
45°
45°
1-05
CU
SCALE 1:1.5
1-03
1-05
1-04
1-06
1-02
1-02
1-01
SA-1-105
R5
R5
5
10
5
1-06
MS
12
12
6
6
45°
45°
R4
101
R4
SCALE 1:1.5
40
8
∅ 9CF
∅ 7PF
2-01.2
MS
9CF
7PF
7PF
6
16
6
2-01.3
MS
8
32
2-01.4
MS
9CF
7PF
2-01.1
2-01.2
2-01.3
2-01.4
2-01.5
2-01.6
2-01.7
2-01.8
R2
8
8
2-01.5
MS
6
7PF
7PF
16
6
45°
45°
∅ 48
2 REQD
2
∅ 16
R1
2-01.8
MS
5
5
∅ 9
7
7
CSK
∅ 3-2PL
∅ 28
2mm THICK
∅ 42
A
A
∅ 58
2-01.1
ALU/MS
6
10
6
3
3
7
7
M3
∅ 52
∅ 25
∅ 9
60°
SECTION A-A
SCALE 1 : 1.5
9
2
5.5
M3-3PL
2.5
M3-2PL
2-01.6
MS
5
5
∅ 28
7
7
∅ 9
∅ 16
3
∅ 28
∅ 24
2-01.7
MS
11
32-MAX
11
80°
99.5-MAX/MIN
∅ 2
2-02.2
SYN
∅ 18.2
2 REQD
2
2
2.5
3
2.5
∅ 22CF
18.2
∅ 12
M4
6
3.5
2
2-02.1
SS/BRS
2-02.3
SS
∅ 6CF
M4
M5
10
59.5
14
15
∅ 5CF
2-02.5
SS
4
4
3.5
3.5
11
8
7.5
7.5
∅ 19
M5
∅ 5PF
R4
12
6
5
2-02.4
BRZ
2-02.2
2-02.1
2-02.3
2-02.5
93.5-MAX/MIN
∅ 5RM
R5
3.5
∅ 2.5
3.5
7PF
11.5
11.5
R1
3.5
31.5
7
2-03.1
ALU/MS
BRZ
3.5
3.5
M4
2.5
M4
4
7.5
7.5
4
0.5
0.5
∅ 4
∅ 2.5
∅ 4
0.5
3.5
3.5
∅ 15
0.5
∅ 9RM
7.5
7.5
46-MAX/MIN
2-03.3
MS
2-03.2
BRZ
∅ 4
∅ 4
3.5
3.5
15
4
4
2mm THICK
∅ 2
CSK
∅ 3
1.5
3
1.5
3
3
∅ 28PF
∅ 24RM
∅ 6PF
R3
∅ 4RM
R3
R4
8
16
16
∅ 35
16
99.5
2-05
ALU/MS
BRZ/OLT
BRZ/OLT
2-04.2
MS
3
10
3
M3
M3
∅ 4CF
∅ 3
2.5
2.5
∅ 10CF
∅ 6
6
B
B
6
15
6
5
10
11
2-04.1
SS
∅ 3
∅ 4PF
∅ 4
32
16
5
SECTION B-B
2-04
2-04
2-05
2-05
2-01
SA-1-105
SA-2-205
2-02
2-02
2-03
2-03

ASSEMBLY 1-04 IS AN EXACT COPY OF ASSEMBLY 1-03 EXCEPT PART 1-04.2 WHICH IS REMOVED

THE OFF SET ANGLE OF THE ECCENTRIC IN RELATION TO THE CRANK AXIS TO BE EXPERIMENTALLY DETERMINED FOR THE SMOOTH RUNNING OF THE ENGINE AND SATISFACTION OF THE BUILDER

NOTES: THE ENGINE SHOWN ON THESE DRAWINGS ARE LOOSELY BASED ON A UNDIMENSIONED DRAWING AND PICTURES WHICH I FOUND ON THE INTERNET. THE DRAWING WAS DRAWN BY SIMON ROWLEY, AND DATED APRIL-2021. NO SCALE INDICATED.

TITLE	DRAWING CONTENTS	PROJECT No 09E-74-00	PROJECTION	MODEL SCALE: 1:1
2 CYLINDER NON REVERSABLE "V" TYPE STEAM ENGINE (BORE=22mm STROKE=32mm)	PARTS AND ASSEMBLIES	JDW DRAUGHTING SERVICES J.A.M. DE WAAL. 12 BRIGHTWELL STREET PAPAKURA 2110. NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000 E-MAIL: dewaal@xtra.co.nz.	JDWDS DATE AUGUST 2025	DWG SCALE: 1:1 @A3 OR AS SHOWN Copyright © J.A.M. DE WAAL PAPAKURA NZ
			SHEET: 03 OF 03	A3 No:09E-74-00-SHT-03

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