

NOTES: THE ORIGINAL DRAWINGS AND ASSOCIATED ARTICLE WAS PUBLISHED IN THE "MODEL ENGINEER" MAGAZINE OF DECEMBER 1947. THE ARTICLE WAS CALLED "A BIT OF ANCIENT HISTORY BY L.B.S.C."

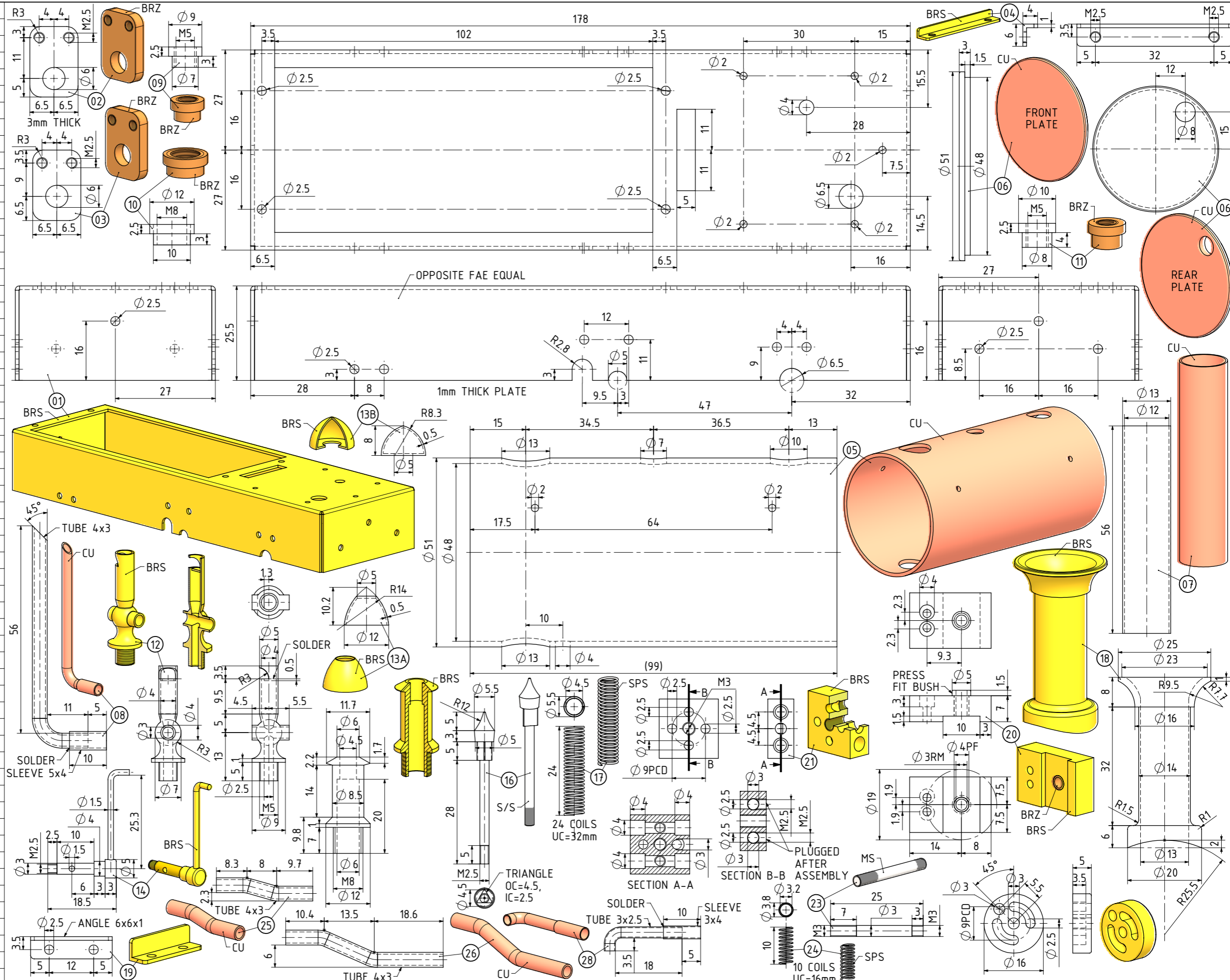
TITLE
SIMPLE KEROSENE FIRED STEAM LOCOMOTIVE
 BY L.B.S.C. TRACK GAUGE 2.5inch (64mm)

DRAWING CONTENTS
GENERAL ARRANGEMENT

PROJECT No 07B-07-00
 JDW DRAUGHTING SERVICES
 J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAKAPURA 2110.
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PROJECTION	JDWDS	MODEL SCALE: 1:22.5
DATE	MARCH 2015	DWG SCALE: NTS @A3 OR AS SHOWN
SHEET: 01 OF 05		Copyright © J.A.M. DE WAAL PAKAPURA NZ
A3		No: AJAX-01

QTY.	PART NUMBER
1	AJAX-01-BASE FRAME
2	AJAX-02-FRONT WHEEL BEARING
2	AJAX-03-REAR WHEEL BEARING
3	AJAX-04-BOILER FIXING ANGLE
1	AJAX-05-BOILER SHELL
1	AJAX-06-BOILER SHELL END
1	AJAX-06-BOILER SHELL END
1	AJAX-07-EXHAUST FLUE
1	AJAX-08-INSIDE BOILER STEAM SUPPLY PIPE
1	AJAX-09-BOILER WHISTLE NIPPLE
1	AJAX-10-BOILER SAFETY VALVE NIPPLE
1	AJAX-11-BOILER WATER FILLER NIPPLE
1	AJAX-12-WHISTLE BODY
1	AJAX-13A-WHISTLE BELL-BOTTOM
1	AJAX-13B-WHISTLE BELL-TOP
1	AJAX-14-WHISTLE VALVE
1	AJAX-15-SAFETY VALE BODY
1	AJAX-16-SAFETY VALE CENTRE STEM VALVE
1	AJAX-17-SAFETY VALE SPRING
1	AJAX-18-SMOKE STACK
2	AJAX-19-PORT BLOCK ANGLE
2	AJAX-20-PORT BLOCK
1	AJAX-21-REVERSING VALVE PORT BLOCK
1	AJAX-22-REVERSING VALVE
1	AJAX-23-REVERSING VALVE PIVOT AXLE
3	AJAX-24-REVERSING VALVE PIVOT AXLE SPRING
4	AJAX-25-REVERSING VALVE IN-OUT PIPE
1	AJAX-26-REVERSING VALVE STEAM PIPE
1	AJAX-27-REVERSING VALVE EXHAUST PIPE
1	AJAX-28-REVERSING VALVE OILER PIPE
1	AJAX-29-REVERSING VALVE OPERATING HANDLE
1	AJAX-30-OILER CONTAINER
1	AJAX-31-TENDER BODY
1	AJAX-32-FUEL TANK
2	AJAX-33-WICK HOLDER-TYPE-1
4	AJAX-34-WICK HOLDER TYPE-2
1	AJAX-35-WICK HOLDER SUPPLY SPIDER
1	AJAX-36-WHEEL AXLE
1	AJAX-36-WHEEL AXLE
2	AJAX-37-FRONT WHEEL
2	AJAX-38-REAR WHEEL
2	AJAX-39-CYLINDER
2	AJAX-40-CYLINDER PORT BLOCK
2	AJAX-41-PISTON + ROD
2	AJAX-42-FRONT AXLE SPACER
2	AJAX-43-PULLING HOOK
2	AJAX-44-LOCKING PIN
2	AJAX-45-NAME PLATE
2	AJAX-46-BOILER HAND RAIL
1	AJAX-64mm-RAIL
12	AJAX-M2.5 NUT
5	AJAX-M2.5 WASHER
2	AJAX-M2.5x2.5 PAN HEAD SCREW
24	AJAX-M2.5x5 PAN HEAD SCREW
5	AJAX-M2 NUT
5	AJAX-M2x4 PAN HEAD SCREW
3	AJAX-M3 NUT
2	AJAX-M5x8



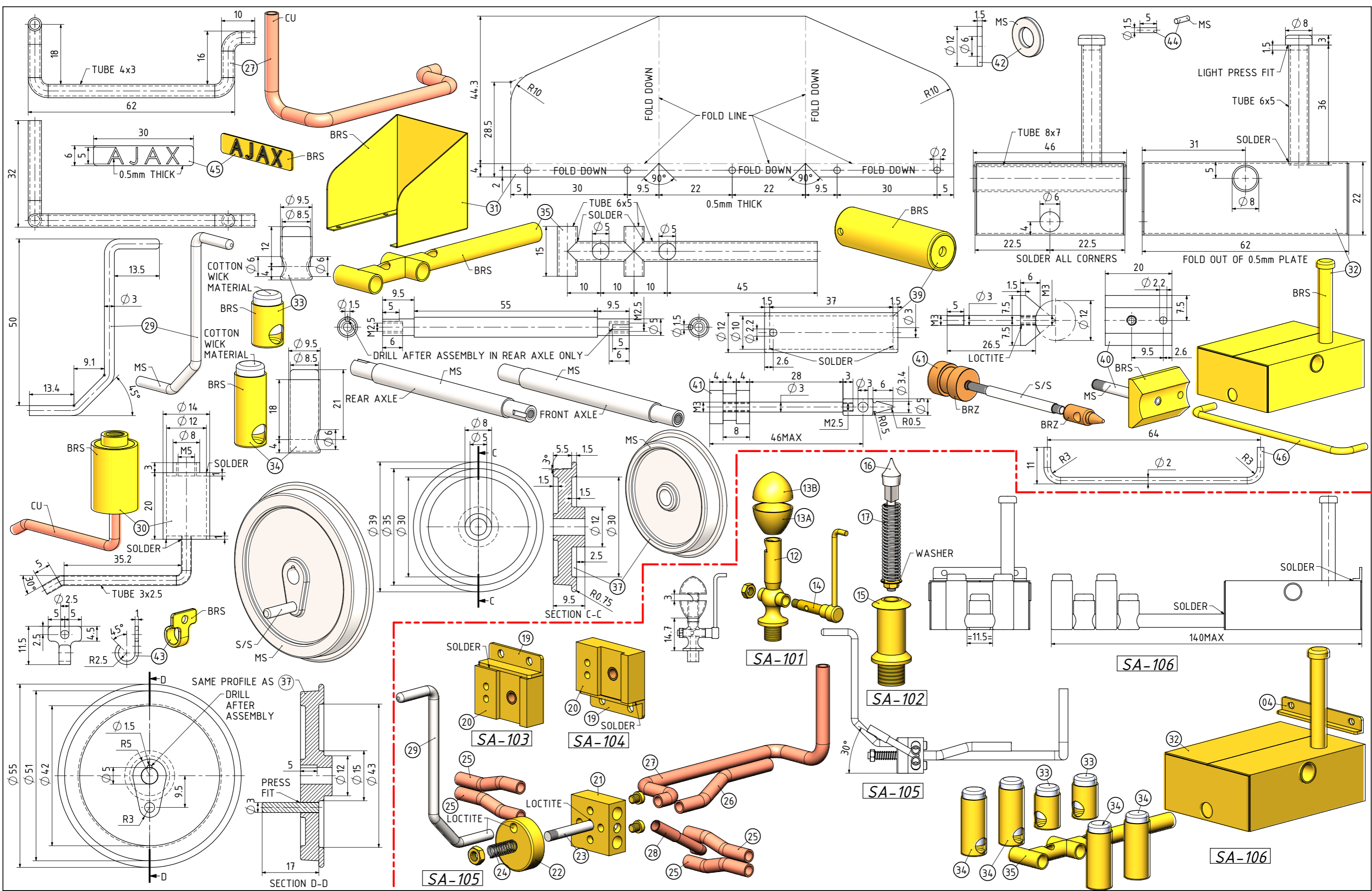
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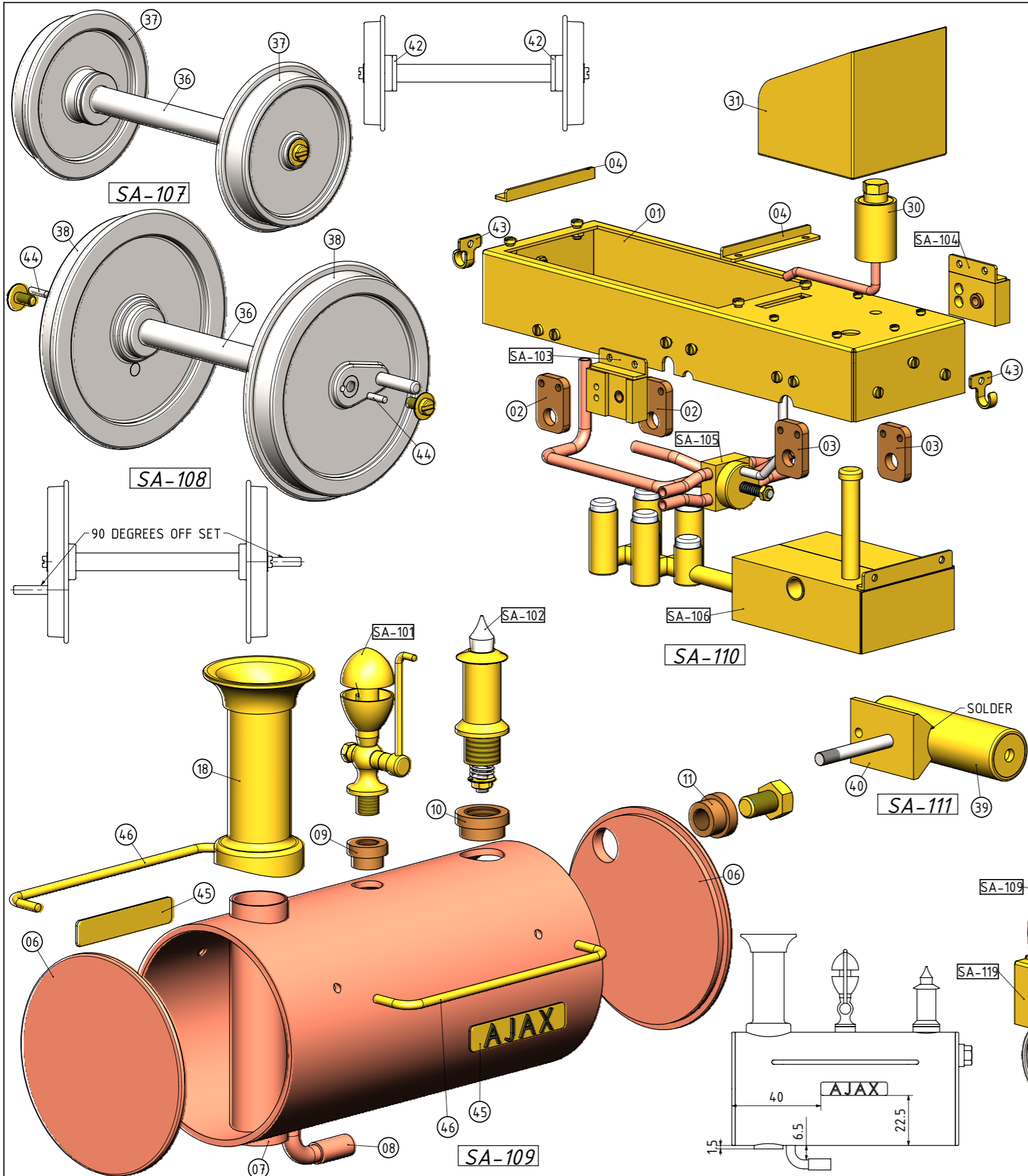
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SIMPLE KEROSENE FIRED STEAM LOCOMOTIVE
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DRAWING CONTENTS
BILL OF MATERIALS, PARTS AND ASSEMBLIES

PROJECT No 07B-07-00
 JDW DRAUGHTING SERVICES
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PROJECTION
JDWDS
 DATE MARCH 2015
 SHEET: 02 OF 05
 MODEL SCALE: 1:22.5
 DWG SCALE: 1:1 @A3 OR AS SHOWN
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A3 No: AJAX-02





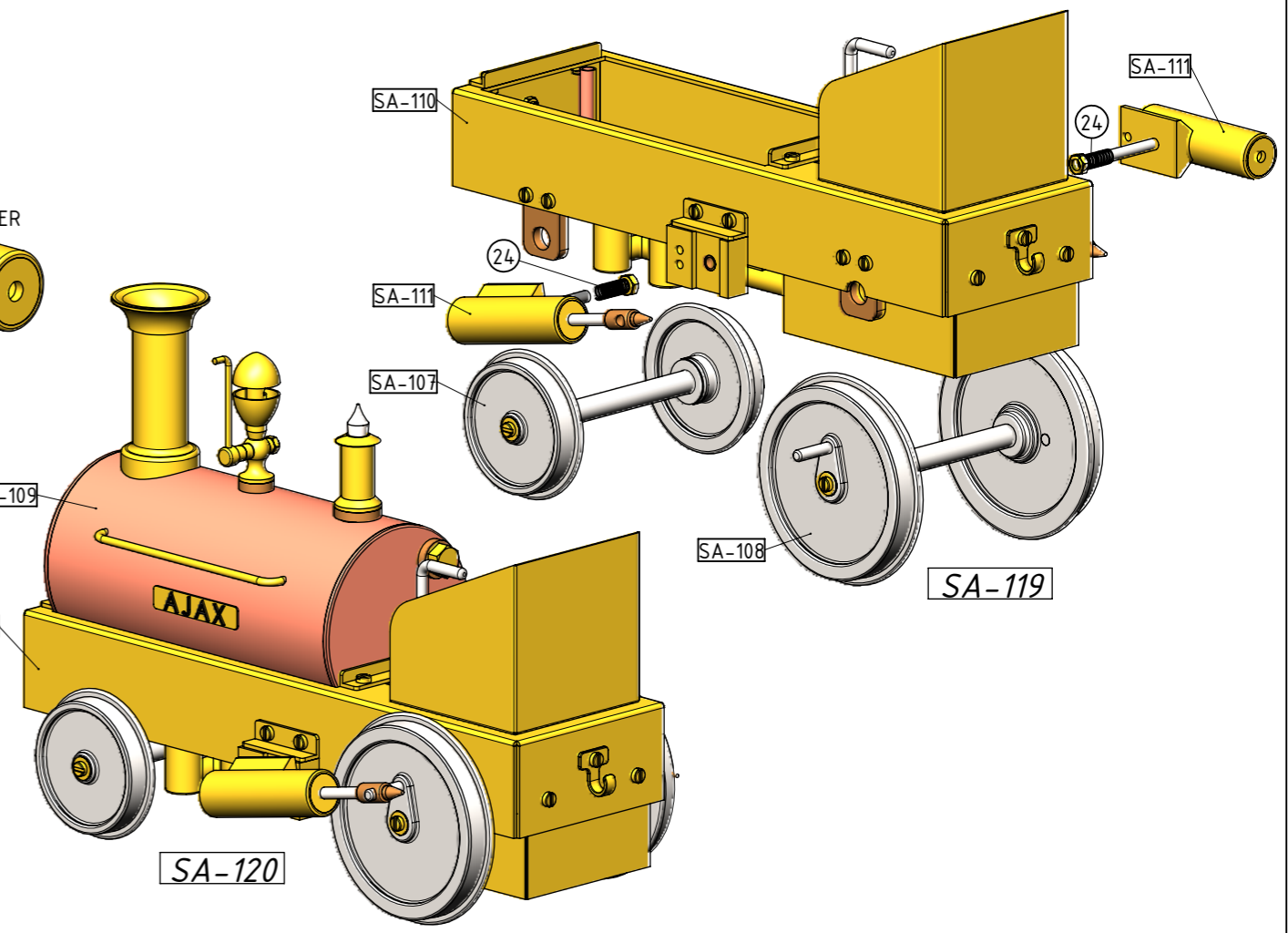
- NOTES:
1. ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES.
 2. WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE MATCHING TAPPED HOLE.
 3. PREFERABLY ALL TAPPED HOLES AND MATCHING SCREWS AND/OR BOLTS TO BE METRIC FINE (MF)
 4. MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE.
 5. INQUIRE AT THE APROPRIATE AUTHOROTIES WHETHER OR NOT THIS BOILER REQUIRES A PRESSURE TEST CERTIFICATE.
 6. ALL CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD SOLDERED.
 7. COMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX 40% TO 60% LONGER THEN COMPRESSED STATE.
 8. WHERE PREFERED SCREW CONNECTIONS CAN BE OMITTED AND PARTS CAN BE BONDED TOGETHER BY USING EITHER GLUE (LOCTITE), EPOXY RESIN, SOLDER OR RIVETS.
 9. PARTS WHICH ARE DIRECTLY EXPOSED TO STEAM AND/OR WATER SHLOULD BE CONSTRUCTED USING NON-FERROUS OR NON CORROSIVE MATERIALS SUCH AS BRASS, BRONZE, GUNMETAL, STAINLESS STEEL, COPPER OR MONEL.

MATERIAL ABBREVIATIONS:

ALU = ALUMINIUM
 BRS = BRASS
 BRZ = BRONZE OR GUNMETAL (BRZ/GM)
 CU = COPPER
 MS = MILD STEEL/BRIGHT MILD STEEL
 S/S = SILVER STEEL OR STAINLESS STEEL
 SPS = SPRING STEEL
 SYN = SYNTHETIC MATERIAL SUCH AS VETON, NYLON, TEFLON OR RUBBER

OTHER ABBREVIATIONS

PF = PRESS FIT
 PCD = PITCH CIRCLE DIAMETER
 RM = REAM
 HEX = HEXACON, 6SIDED
 CP = COMPRESSED
 [SA-xxx] = SUB ASSEMBL-xxx



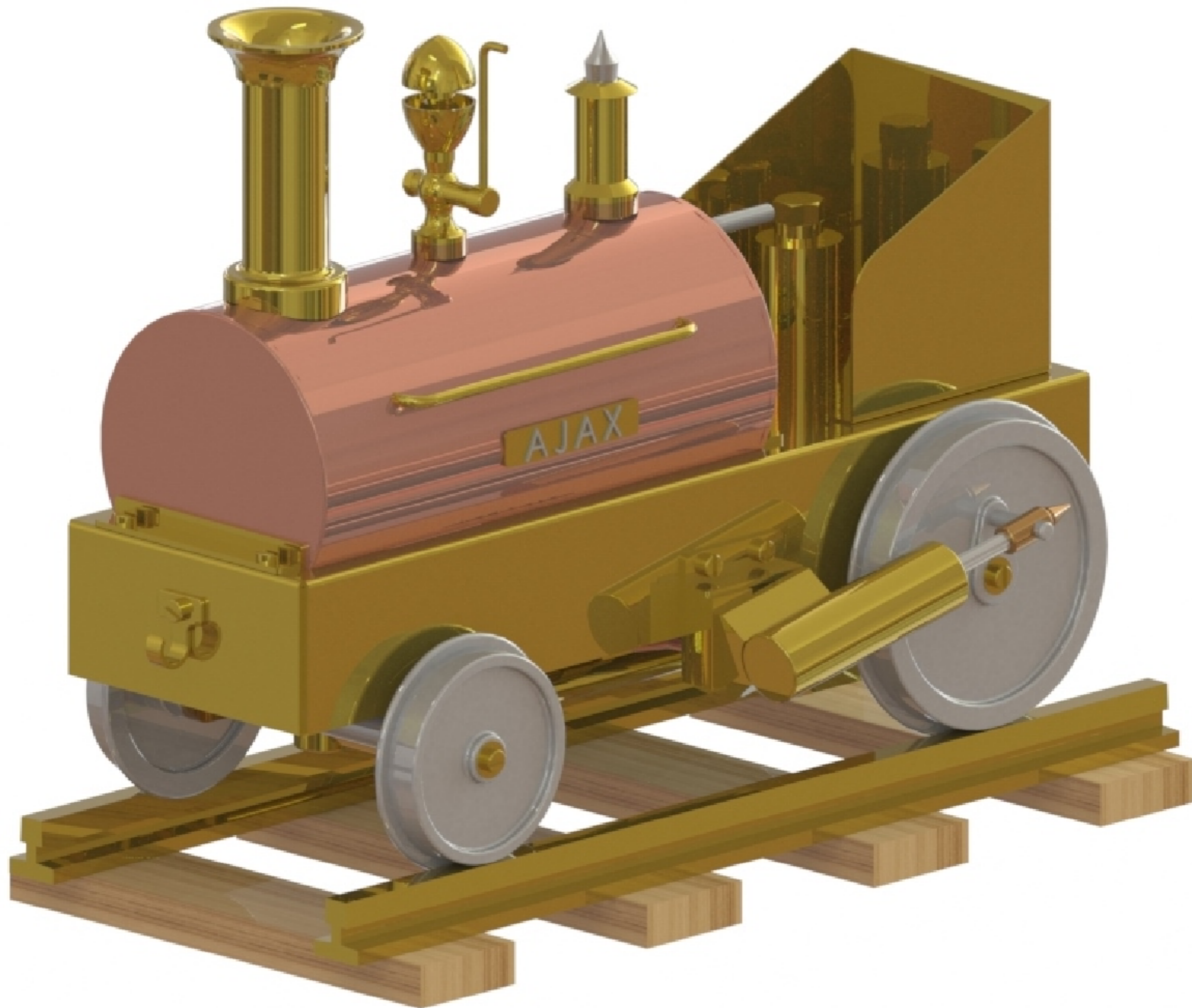
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PROJECTION	JDWDS	MODEL SCALE: 1:22.5
DATE	MARCH 2015	DWG SCALE: 1:1 @A3 OR AS SHOWN
SHEET: 04 OF 05		Copyright © J.A.M. DE WAAL PAPAURA NZ
A3		No: AJAX-04




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PROJECTION

 DATE **MARCH 2015**

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SHEET: 05 OF 05 **A3** No: **AJAX-05**